A) REDUCED PRESSURE BACKFLOW PREVENTER, AWWA AND USC FCCCHR APPROVED FOR USE WITHIN CITY OF NAPLES WATER JURISDICTION.
B) STRAINER
C) UNIONS MAY BE PLACED ON VERTICAL RUNS
D) SIZES 3/4" TO 2"

NOTES:
1) TO BE INSTALLED A MINIMUM OF 12" (INCHES) TO A MAXIMUM OF 30" (INCHES) OVER FINAL FINISHED GRADE, AS MEASURED TO THE LOWEST POINT OF THE RP ASSEMBLY, AND NO CLOSER THAN 12" (INCHES) TO ANY FIXED STRUCTURE.
2) ALL PIPING FOR ASSEMBLY SHALL BE TYPE "K" COPPER OR BRASS
3) UNPROTECTED CONNECTIONS ARE PROHIBITED BETWEEN BACKFLOW PREVENTER AND METER.
4) ADJUSTABLE PIPE STANDS WHERE REQUIRED.
5) BACKFLOW UNIT REQUIRES INITIAL CERTIFICATION BY CITY OF NAPLES WATER DEPARTMENT (BackFlow Division).
6) ALL ABOVE GROUND PIPING INCLUDING ASSEMBLY WILL BE PAINTED RUSTOLEUM FEDERAL SAFETY BLUE, OR PER CITY ORDINANCE 66-66H.

** ASSEMBLY TO BE INSTALLED AS CLOSE AS POSSIBLE TO METER ON CUSTOMER'S PROPERTY.
NOTES:
1) GATE VALVES (1) AND (2) ARE THE SAME VALVES IN ALL VIEWS.
2) THE BACKFLOW ASSEMBLY SHALL BE ASSEMBLED AFTER GATE VALVE (2).

OWNERS RESPONSIBILITY

NOTES:
1) ALL ABOVE GROUND PIPES WILL BE FLANGED END D.I.P. CLASS 51, WITH NUTS & BOLTS OF 316 STAINLESS STEEL (ALSO SEE "COMPOUND METER SETUP" DWG.
2) SIX (6) VEHICULAR GUARD POSTS TO BE INSTALLED AROUND METER, CONFIGURATION TO BE ILLUSTRATED ON CONSTRUCTION DOCUMENTS SUBMITTED FOR REVIEW AND APPROVAL.
3) THIS ASSEMBLY IS PERMITTED FOR DOMESTIC SERVICE ONLY.
4) AS THIS UNIT WILL REQUIRE PERIODIC TESTING, FACILITIES REQUIRING CONTINUOUS WATER SERVICE MAY WISH TO INSTALL PARALLEL UNITS OR FULL SIZE BYPASSES TO PREVENT SERVICE INTERRUPTIONS.
5) BACKFLOW UNITS REQUIRE INITIAL CERTIFICATION BY CITY OF NAPLES WATER DEPARTMENT (Backflow Division)
6) BYPASS LINE SHALL BE USED ONLY DURING REPAIR, TESTING, MAINTENANCE, REPLACEMENT, OR EMERGENCY OF THE DOMESTIC METER/BACKFLOW ASSEMBLY
7) CITY WILL REQUIRE DEDICATION OF ALL ABOVE GROUND MATERIAL AND EQUIPMENT BACK TO THE CITY WATER MAIN.
8) ALL PLANTINGS SHALL BE A MINIMUM OF 3' FROM EDGE OF SLAB, AND PROVIDE A 3' ACCESS OPENING.
9) ALL ABOVE GROUND PIPING INCLUDING ASSEMBLY WILL BE PAINTED RUSTOLEUM FEDERAL SAFETY BLUE OR AS PER CITY ORDINANCE 66-66H
10) PROVIDE LINE SIZE GATE VALVE AT HOT TAP TO CITY WATER MAIN
BYPASS TO BE SIZED BY DESIGN ENGINEER TO PROVIDE A MINIMUM OF DOMESTIC FLOWS. HOWEVER THE MINIMUM SIZE SHALL BE 2".

FOR ALL METERS UP TO 4" & 3" FOR ALL METERS LARGER THAN 4"

TAPPING SLEEVE & VALVE

12" SPOOL PIECE

LOCKING BALL VALVE

6 X 6 10/10 WELDED WIRE MESH 4" WIDE, 6" THICK REINFORCED FULL LENGTH OF METER ASSEMBLY

BADGER COMBINATION METER

(CUL. FM APPROVED BADGER FIRE SERVICE METER WITH DOMESTIC DISC/TURBINE METER AND ELECTRONIC READ PACKAGE)

CITY'S RESPONSIBILITY

VAL-MATIC AIR RELEASE WITH CORP. STOP

FL 45-90 DEG ELBOWS

NOTES:
1) ALL ABOVE GROUND PIPES WILL HAVE FLANGED END, CLASS 51, D.I.P.
   WITH NUTS & BOLTS OF STAINLESS STEEL.
2) SIX (6) VEHICULAR GUARD POSTS TO BE INSTALLED AROUND METER &
   CONFIGURATION TO BE ILLUSTRATED ON CONSTRUCTION DOCUMENTS
   SUBMITTED FOR REVIEW AND APPROVAL.
3) THIS UNIT WILL REQUIRE CONTINUOUS WATER SERVICE TO PREVENT SERVICE INTERRUPTIONS.
4) BACKFLOW UNIT REQUIRES INITIAL CERTIFICATION BY CITY OF NAPLES WATER DEPARTMENT (Backflow Division).
5) CITY OF NAPLES WATER DEPARTMENT (Backflow Division).
6) CITY REQUIRES DEDICATION OF ALL ABOVE GROUND MATERIAL AND
   EQUIMENT BACK TO THE CITY WATER MAIN.
7) ALL PLANTS SHALL BE A MINIMUM OF 3' TALL & 3' FROM EDGE OF SLAB AND PROVIDE A 3' ACCESS OPENING.
8) ALL ABOVE GROUND PIPING INCLUDING ASSEMBLY WILL BE PAINTED RUSTOLEUM FEDERAL SAFETY BLUE, OR AS PER
   CITY ORDINANCE 66-66H.
9) BYPASS LINE SHALL BE USED ONLY DURING REPAIR, TESTING, MAINTENANCE, REPLACEMENT, OR EMERGENCY OF THE
   DOMESTIC METER/BACKFLOW ASSEMBLY.

OWNERS RESPONSIBILITY

FLANGED GATE VALVE WITH RISING STEM & RESILIENT SEAT. (TYP)

FL 45-90 DEG ELBOWS

ADJUSTABLE PIPE SUPPORT STAYS AS REQUIRED ANCHORED TO PAD

12" MIN. ABOVE GRADE

THRU BLOCK (TYP.)
STANDARD BADGER RECORDALL METERS AND REGISTERS WITH ITRON RADIO READ PACKAGE AND NSF61 APPROVED

FSAA W/ DISC BYPASS

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<td>REGISTER-MAIN LINE TURBO</td>
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<td>8</td>
<td>CHECK VALVE, MAIN LINE</td>
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THIS DETAIL CONSTITUTES MINIMUM STANDARDS, DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR: UTILITIES ENGINEERING DIVISION CITY OF NAPLES
DATE: SEPT 2010 SHEET: W-04
DRAWN: JAF DIR: WATER
SCALE: N.T.S. DWG. W-04.DWG

4” AND LARGER COMBINATION FIRE & DOMESTIC METER ASSEMBLY

380 RIVERSIDE CIRCLE, NAPLES, FL 34102
NOTE: ASSEMBLY NOT TO BE REMOVED AND SPOOL PIECE INSTALLED FOR FINAL CONNECTION UNTIL AFTER TESTING, BACTERIAL CLEARANCE, FINAL INSPECTION AND CITY ACCEPTANCE.

CITY'S RESPONSIBILITY

OWNERS RESPONSIBILITY

NOTES:
1) ALL ABOVE GROUND PIPE WILL HAVE FLANGED END D.I.P. CLASS 51
2) ALL NUTS & BOLTS SHALL BE 316 STAINLESS STEEL
3) ASSEMBLY IS REQUIRED TO BE FLUSHED, CHLORINATED AND BACTERIAL CLEARED BEFORE PLACEMENT IN SERVICE.
4) BACKFLOW UNIT REQUIRES INITIAL CERTIFICATION BY CITY OF NAPLES WATER DEPARTMENT (Backflow Division).
5) CONTRACTOR IS REQUIRED TO PROVIDE 8' OF 3/8 CHAIN AT TIME OF INSTALLATION.
6) INSPECTIONS ARE REQUIRED FOR SYSTEM TIE-IN AND ASSEMBLY CONNECTION.

** 12" MINIMUM ABOVE MAXIMUM FLOOD PLANE LEVEL.
(Dimension Taken From Lowest Point on Assembly)
REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY SUPPLIED WITH AMMONIA & CHLORINE RESISTANT SEATS AND SILICONE RUBBER SEALS. AWWA & USEC/CWWA APPROVED

"FORD" Curb Stop W/Locking Wings

FLOW 12' min.

ASSEMBLY NOT TO BE REMOVED AND SPOOL PIECE INSTALLED FOR FINAL CONNECTION UNTIL AFTER TESTING, BACTERIAL CLEARANCE, FINAL INSPECTION AND CITY OF NAPLES ACCEPTANCE.

4' MIN. 6' MAX.

GATE VALVE (MAIN LINE HOT TAP)

EXISTING MAIN STAINLESS STEEL SLEEVE

THRUST BLOCK

NOTES:
1. FINAL CONNECTION TO BE WITNESSED BY CITY OF NAPLES UTILITIES DIVISION.
2. BLIND FLANGES TO BE PROPERLY RESTRAINED.
3. INSTALL JUMPER TAP SYSTEM FOR TEMPORARY METER DOWNSTREAM OF BLIND FLANGE FOR PRESSURE AND BACTEE TESTING.
4. 4" TO 12" TAPPING SLEEVES SHALL BE STAINLESS STEEL ALL TAPPING SADDLES OVER 12" AND LINE SIZE BOXES SHALL BE PERFORMED WITH A DUCTILE IRON SPLIT TAPPING SADDLE OR A STAINLESS STEEL SLEEVE AT CITY'S OPTION.
5. JUMPER ASSEMBLY MUST BE A MINIMUM OF 18" ABOVE FINISHED GRADE.
6. BACKFLOW ASSEMBLY REQUIRES INITIAL CERTIFICATION BY CITY OF NAPLES WATER DEPARTMENT (Backflow Division).

NOTED:
1. DO NOT INSTALL JUMPER PIPE & REMOVE BY-PASS UNTIL ALL TESTING & BACTERIAL CLEARANCE HAS BEEN OBTAINED.
2. ALL NEW PIPING SHALL BE PROPERLY RESTRAINED.

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR: UTILITIES ENGINEERING DIVISION CITY OF NAPLES
DATE: SEPT 2010 TEMP. WATER SERVICE — HOTTAP & JUMPER METER CONNECTION SHEET: W-06
DRAWN: JAF DIR: WATER
SCALE: N.T.S. 380 RIVERSIDE CIRCLE, NAPLES, FL 34102 DWG. W-06.DWG
CITY OF NAPLES

TYPICAL INSTALLATION DETAIL FOR FIRE HYDRANT
WITH NO LARGER THAN 2 INCH TEMPORARY WATER SERVICE

1. CONTRACTOR/CUSTOMER SHALL APPLY AT CITY OF NAPLES WATER COMPANY FOR TEMPORARY WATER SERVICE THREE DAYS PRIOR TO REQUIRED SERVICE DATE.

2. METER, LOCKABLE STAINLESS STEEL BALL VALVE AND PIPE SUPPORT WILL BE FURNISHED AND INSTALLED BY CITY OF NAPLES WATER COMPANY.

3. ALL FITTINGS, PIPING, VALVES AND MATERIALS INCLUDING THE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE SHALL BE FURNISHED, INSTALLED AND TESTED BY CITY OF NAPLES WATER COMPANY.

4. CONTRACTOR/CUSTOMER SHALL PROVIDE PROTECTION FOR ASSEMBLY FROM DAMAGE.

5. THE CONTRACTOR/CUSTOMER SHALL PROVIDE A LOCK FOR USE WITH BALL VALVE AND SHALL USE ONLY THE BALL VALVE, NOT THE HYDRANT VALVE, FOR CONTROLLING WATER USED FROM THE FIRE HYDRANT.

6. BY APPLYING FOR SERVICE, CONTRACTOR/CUSTOMER AGREES TO TAKE WATER SERVICE FROM CITY OF NAPLES WATER COMPANY IN ACCORDANCE WITH THE APPROPRIATE RATE SCHEDULE AND IN ACCORDANCE WITH COMPANY RULES AND REGULATIONS, OR ANY SUPERSEEDING RATE SCHEDULE AND/OR RULES AND REGULATIONS.

WARNING

CONTRACTOR/CUSTOMER SHALL NOT OPERATE OR USE HYDRANT VALVE, BUT SHALL USE BALL VALVE ONLY FOR REGULATING FLOW OF WATER WHEN USING.

FURNISHED AND INSTALLED BY CITY OF NAPLES

FURNISHED AND INSTALLED BY CONTRACTOR

ADAPTER BY CITY OF NAPLES

METER FURNISHED BY CITY OF NAPLES

STAINLESS STEEL BALL VALVE WITH LOCKABLE HANDLE BY CITY OF NAPLES

REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY

EXISTING FIRE HYDRANT

GRADE

MIN. 12”

STAINLESS STEEL ADJUSTABLE PIPE SUPPORT. BY CITY OF NAPLES

FOR: UTILITIES ENGINEERING DIVISION CITY OF NAPLES
DATE: SEPT 2010 TEMPORARY WATER SERVICE – SHEET: W-07
DRAWN: JAF FIRE HYDRANT CONNECTION DIR: WATER
SCALE: N.T.S. 380 RIVERSIDE CIRCLE, NAPLES, FL. 34102 DWG. W-07.DWG
FOR 2" AND 3" FIRE SYSTEM DETECTOR CHECK ASSEMBLY, SEE 2" AND 3" FIRE SYSTEM DETECTOR DWG

CITY’S RESPONSIBILITY
- UP TO AND
INCLUDING UNDERGROUND
VALVE PRECEDING
DETECTOR ASSEMBLY

OWNERS RESPONSIBILITY

NOTES:
1) ALL ABOVE GROUND PIPE WILL HAVE FLANGED END D.I.P. CLASS 51 ALL NUTS & BOLTS SHALL BE 316 STAINLESS STEEL.
2) FOUR (4) VEHICULAR GUARD POSTS TO BE INSTALLED AROUND METER. CONFIGURATION TO BE ILLUSTRATED ON CONSTRUCTION DOCUMENTS SUBMITTED FOR REVIEW AND APPROVAL.
3) AS THIS UNIT WILL REQUIRE PERIODIC TESTING, FACILITIES REQUIRING CONTINUOUS WATER SERVICE MAY WISH TO INSTALL PARALLEL UNITS TO PREVENT SERVICE INTERRUPTIONS.
4) BACKFLOW ASSY. WILL BE OWNED & MAINTAINED BY PROPERTY OWNER.
5) CITY WILL REQUIRE DEDICATION OF MATERIAL UP TO AND INCLUDING THE UNDERGROUND ISOLATION VALVE PRECEDING THE DETECTOR ASSEMBLY.
6) BACKFLOW UNIT REQUIRES INITIAL CERTIFICATION BY CITY OF NAPLES WATER DEPARTMENT (Backflow Division).
7) ALL PLANTINGS SHALL BE A MINIMUM OF 3’ FROM EDGE OF SLAB, AND PROVIDE A 3’ ACCESS OPENING.
8) ALL ABOVE GROUND PIPING INCLUDING ASSEMBLY WILL BE PAINTED RUSTOLEUM FEDERAL SAFETY RED OR PER CITY ORDINANCE 66-664.
9) FOR 2" AND 3" FIRE SYSTEM DETECTOR CHECK ASSEMBLY W/O FIRE HYDRANT DOWNSTREAM DETAIL DWG., SEE 2" AND 3" FIRE SYSTEM DETECTOR DWG.
CONCRETE FOUNDATION FULL LENGTH OF ASSEMBLY (TYP) 4' WIDE, 8" THICK 6" x 6" 10x10 WELDED WIRE MESH

REDUCED PRESSURE DEVICE SUPPLIED WITH AMMONIA AND CHLORINE RESISTANT SEATS AND SILICONE RUBBER SEALS. UL/FM APPROVED FOR FIRE SERVICE INSTALLATION. MUST BE APPROVED BY USCCFCCHR AND COMPLY WITH AWWA. APPROVED DEVICES: AMES, CONBRAKO, WILKINS-ZURN AND WATTS.

RISING STEM AND RESILIENT SEAT (TYPICAL 2 PLACES) FLANGED GATE VALVE

2 1/2" x 2" REDUCING FLANGES

90° BRASS FEMALE X STREET BEND

CX MALE ADAPTER

2" BRASS NIPPLE

WYE STRAINER

FLOW

12" MINIMUM OF DUMP PORT FLOW

18" (TYP)

FINISHED GRADE

6 MIL POLY WRAP CONSTRUCTION GRADE SHEETING, DOUBLE LAYER, PLASTIC ALL PURPOSE FLOW

CUSTOMER SERVICE LINE

PROPERTY LINE

GATE VALVE

CX MALE ADAPTER

FLOW

PROPERTY OWNER MAINTENANCE TO THIS POINT

90° CX FEMALE BEND

NOTES:
1) NO FIRE HYDRANT CONNECTIONS OR DOMESTIC SERVICE CONNECTIONS PERMITTED DOWNSTREAM OF ASSEMBLY.
2) ASSEMBLY WILL BE OWNED AND MAINTAINED BY PROPERTY OWNER, STARTING FROM THE GATE VALVE AT PROPERTY LINE. PLACE BOLLARDS AROUND ASSEMBLY IF NECESSARY.
3) BACKFLOW DEVICE REQUIRES INITIAL CERTIFICATION BY AN APPROVED CERTIFIED TESTER, WITH RESULTS AND ANNUAL TEST RESULTS SUBMITTED TO THE CITY WATER DEPARTMENT.
4) ALL PLANTING SHALL BE A MINIMUM OF 3' FROM EDGE OF SLAB, AND SHALL PROVIDE A 3' ACCESS OPENING.
5) THIS ASSEMBLY SHALL BE PAINTED WITH RED EPOXY PAINT.
6) ALL COMPONENTS THAT COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF STANDARD 61.
7) PROVIDE 3/4" BYPASS WITH FLOW METER.

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR: UTILITIES ENGINEERING DIVISION CITY OF NAPLES
DATE: SEPT 2010 SHEET: W-09
DRAWN: JAF DIR: WATER
SCALE: N.T.S. DWG. W-09.DWG
380 RIVERSIDE CIRCLE, NAPLES, FL. 34102