



LEGEND:

- ① BACKFLOW PREVENTER ASSEMBLY, PRE-ASSEMBLED
- ② BRASS OR TYPE K COPPER NIPPLE-TYPICAL
- ③ BRASS OR TYPE K COPPER 90 ELL-TYPICAL
- ④ BRASS OR TYPE K COPPER NIPPLE
- ⑤ 6" THICK CONCRETE PAD (3250 PSI) SLOPE TO DRAIN AT MINIMUM 2%
- ⑥ FINISH GRADE
- ⑦ BRASS OR TYPE K COPPER NIPPLE
- ⑧ 1 CU FT CONCRETE THRUST BLOCKS - TYPICAL (2) PLACES
- ⑨ BRASS OR TYPE K COPPER 90 ELL
- ⑩ SCHEDULE 80 PVC MALE ADAPTER
- ⑪ FROM WATER SOURCE
- ⑫ BRASS UNION WITH ADAPTERS
- ⑬ 10 MIL POLYETHYLENE TAPE, 1.5 TIMES WRAP
- ⑭ WYE STRAINER PER SPECIFICATION
- ⑮ SHUT OFF VALVE (TYPE VARIES)
- ⑯ 90% COMPACTED SUBGRADE
- ⑰ TYPE K COPPER SERVICE
- ⑱ 8" LONG BRASS OR TYPE K COPPER NIPPLE
- ⑲ BRASS OR TYPE K COPPER FEMALE ADAPTER
- ⑳ TYPE K COPPER (AS REQUIRED) PRESSURE SUPPLY LINE

NOTES:

- 1) BACKFLOW PREVENTER ASSEMBLY SHALL BE APPROVED AND TESTED UPON INSTALLATION BY A EMWD APPROVED CERTIFIED BACKFLOW DEVICE TESTER. CONTRACTOR SHALL PROVIDE THE ENGINEER AND CITY WITH WRITTEN RESULTS COMPLETED BY A CERTIFIED BACKFLOW TESTER.
- 2) PRIOR TO BACKFLOW PREVENTER'S ACCEPTANCE BY THE ENGINEER, ALL METAL IN CONTACT WITH CONCRETE SHALL BE POLYETHYLENE WRAPPED USING 2" WIDE PLASTIC BACKED ADHESIVE TAPE MIN. 10 MILS. THICK 1/2" OVERLAP.
- 3) CONCRETE PAD TO BE 2" ABOVE GRADE. CONCRETE PAD SHALL BE 3,250 PSI, 8" THICK, 24" WIDE (MIN), + 3' ON HINGED SIDE.
- 4) FACTORY ASSEMBLED REDUCED PRESSURE PRINCIPLE ASSEMBLY SHALL BE INCLUDED IN THE EDITION OF THE 'APPROVED FOR SERVICE ISOLATION IN CALIFORNIA PUBLIC WATER SYSTEMS' ISSUED BY THE STATE OF CALIFORNIA DEPARTMENT.
- 5) PRESSURE REGULATOR MAY BE INSTALLED UPSTREAM OF THE BACKFLOW PREVENTER ASSEMBLY WHEN WATER PRESSURE EXCEEDS BACKFLOW PREVENTER ASSEMBLY RATING.
- 6) COMBINATION OF WYE STRAINER AND REGULATOR, WHEN REQUIRED, SHALL BE LOCATED UPSTREAM OF BACKFLOW DEVICE.
- 7) PROTECTIVE ENCLOSURE FOR BACKFLOW PREVENTER ASSEMBLY SHALL BE USED SIZE TO FIT.
- 8) LOCATE PREVENTER ASSEMBLY AS APPROVED BY PARKS AND COMMUNITY SERVICES.
- 9) ALL RISERS, ELBOWS AND UNDERGROUND PIPING SHALL BE BRASS OR TYPE 'K' COPPER. BRASS UNIONS ARE ACCEPTABLE. ALL PIPING SHALL BE POLY SLEEVED. EPOXY OR POLLYESTER DIPPED DUCTILE IRON REQUIRED 4" AND LARGER UNITS.
- 10) BACKFLOW DEVICES REQUIRE A FROST GUARD BLANKET.
- 11) PAINT DOMESTIC BACKFLOW - GREEN, IRRIGATION - BLUE, RECLAIMED - PURPLE

PAD SCHEDULE

RP DEVICE SIZE	WIDTH	MIN LENGTH
2 1/2"	30"	66"
3"-4"	36"	78"

NOT TO SCALE



RECOMMENDED: *[Signature]* 6/20/19
 DIVISION MANAGER DATE
 APPROVED: *[Signature]* 7/30/19
 PUBLIC WORKS DIRECTOR / DATE
 CITY ENGINEER

CITY OF MORENO VALLEY
 PARKS AND COMMUNITY SERVICES DEPARTMENT

BACK FLOW PREVENTER

STANDARD PLAN
MVLI-547B-1

SHEET 2 OF 2