STANDARD PLANS

PARKS AND LANDSCAPING
1. Above ground installation is mandatory for reduced pressure backflow devices.

2. Backflow prevention devices must be installed in a true horizontal position.

3. Backflow device must be protected from traffic hazards, either by location or barriers, and must have a minimum clearance of 12" beneath and 6" on all sides.

4. No connections are allowed between meter and the backflow device or directly to the backflow device.

5. All parts of assembly must be easily accessible for inspection by the parks division cross connection specialist.

6. Installation must be approved by the parks division cross connection specialist and the device tested by a city approved AWWA certified backflow tester before water is turned on.

7. Any other location or method of installation must be approved in advance by the parks division cross connection specialist.

8. Backflow prevention device shall be either a Wilkins 950XL or 975XL, or equal approved by the California Department of Health Services.

9. A concrete pad shall be installed. Pad shall be 4" thick on 2" of Class II A.B. extend a minimum of 6" beyond outside of enclosure on all four sides, and contain #3 Rebar, 12" on center, concrete to be class "A" (6 sacks per cubic yard).

10. Piping, valves, nipples, etc. shall be threaded brass.

11. Pressure reducer valves shall be installed on services of 80 psi or greater and be Wilkins Model 500XL or approved equal.

12. Polar Parka backflow insulation is required.
NOTES

1. ABOVE GROUND INSTALLATION IS MANDATORY FOR REDUCED PRESSURE BACKFLOW DEVICES.

2. BACKFLOW PREVENTION DEVICES MUST BE INSTALLED IN A TRUE HORIZONTAL POSITION.

3. BACKFLOW DEVICE MUST BE PROTECTED FROM TRAFFIC HAZARDS, EITHER BY LOCATION OR BARRIERS, AND MUST HAVE A MINIMUM CLEARANCE OF 12" BENEATH AND 6" ON ALL SIDES.

4. NO CONNECTIONS ARE ALLOWED BETWEEN METER AND THE BACKFLOW DEVICE OR DIRECTLY TO THE BACKFLOW DEVICE.

5. ALL PARTS OF ASSEMBLY MUST BE EASILY ACCESSIBLE FOR INSPECTION BY THE PARKS DIVISION CROSS CONNECTION SPECIALIST.

6. INSTALLATION MUST BE APPROVED BY THE PARKS DIVISION CROSS CONNECTION SPECIALIST AND THE DEVICE TESTED BY A CITY APPROVED AWWA CERTIFIED BACKFLOW TESTER BEFORE WATER IS TURNED ON.

7. ANY OTHER LOCATION OR METHOD OF INSTALLATION MUST BE APPROVED IN ADVANCE BY THE PARKS DIVISION CROSS CONNECTION SPECIALIST.

8. BACKFLOW PREVENTION DEVICE SHALL BE EITHER A WILKINS 950XL OR 975XL, OR EQUAL APPROVED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES.

9. A CONCRETE PAD SHALL BE INSTALLED, PAD SHALL BE 4" THICK ON 2" OF CLASS II A.B. EXTEND A MINIMUM OF 6" BEYOND OUTSIDE OF ENCLOSURE ON ALL FOUR SIDES, AND CONTAIN #3 REBAR, 12" ON CENTER, CONCRETE TO BE CLASS "A" (6 SACKS PER CUBIC YARD).

10. PIPING, VALVES, NIPPLES, ETC. SHALL BE THREADED BRASS.

11. POLAR PARKA BACKFLOW INSULATION IS REQUIRED.

CITY OF NAPA
STANDARD ABOVE GROUND BACKFLOW DEVICE INSTALLATION SPECIFICATION FOR CITY LANDSCAPING PROJECTS ONLY

PARKS & RECREATION SERVICES DEPARTMENT

DRAWN BY: SEO CHECKED BY: DMP
APPROVAL DATE: 05/2019 APPROVED BY: JBL
SCALE: NONE DRAWING NO. PL-1A
REVISED DATE: NONE
NOTES
1. WELDED WIRE MESH SHALL BE #6 T304 STAINLESS STEEL WIRE MESH AND SHALL BE INSTALLED UNDER VALVE BOX AND WASHED GRAVEL.
2. INSTALL ASSEMBLY WITHIN VALVE BOX TO MAKE COMPONENTS ACCESSIBLE FOR SERVICE AND MAINTENANCE (TYPICAL).
3. SET TOP OF VALVE BOX FLUSH WITH FINISH GRADE.
STRONGBOX STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE (UL LISTED).

CONTROLLER ASSEMBLY. ASSEMBLED IN ENCLOSURE BY SITEONE GREEN TECH.

TERMINAL STRIP FOR VALVE WIRES.

POWER SWITCH / GFCI RECEPTACLE.

1" CONDUIT AND SWEEP ELL FOR 110 VAC POWER LINE.

1" CONDUIT AND SWEEP ELL WITH FLOW SENSOR CABLE.

5/8" X 8' GROUND ROD WITH #6 GROUND WIRE AND CLAMP. LOCATE 8'-12' FROM ENCLOSURE.

1" CONDUIT AND SWEEP ELL FOR MASTER VALVE WIRES.

3" CONDUIT AND SWEEP ELL FOR LEAD WIRES.

1" CONDUIT AND SWEEP ELL FOR GROUND WIRE.

1" CONDUIT AND SWEEP ELL FOR 110 VAC POWER LINE.

6" MIN THICK, CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATION. 6 SACK PCC.

10" ROUND VALVE BOX AROUND GROUND ROD. FILL WITH 3/4" CRUSHED ROCK.

#6 GROUND WIRE SECURED TO BACKBOARD GROUNDING TERMINAL.

FINISHED GRADE.

FLOW SENSOR TERMINAL BOARD.

6" MIN THICK, CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATION. 6 SACK PCC.

10" ROUND VALVE BOX AROUND GROUND ROD. FILL WITH 3/4" CRUSHED ROCK.

#6 GROUND WIRE SECURED TO BACKBOARD GROUNDING TERMINAL.
CONTROLLER CABINET LEMEUR MODEL A OR EQUAL, COLOR GREEN ON CONCRETE FOUNDATION WITH MIN. 24" APRON.

SINGLE-GANG HANDY BOX WITH ONE GFCI DUPLEX RECEPTACLE, INSTALL OFFSET NIPPLE FROM LANDING CAN TO HANDY BOX.

6" X 6" LANDING CAN WITH GROUND BUS, INSTALL #8 ARMORED GROUND CABLE FROM GROUND BUS TO 8' COPPER CLAD GROUND ROD

CONTROLLER AS SPECIFIED, WITH 14/3 SJO CORD WITH STRAIN RELIEF. INSTALL 90 DEGREE CORD CAP ON OTHER END OF SJO CORD AND PLUG INTO GFCI RECEPTACLE.

NOTES

1. CONTACT CITY OF NAPA ELECTRICAL DEPT. FOR ELECTRICAL SERVICE LOCATIONS AND PRIOR TO STARTING ELECTRICAL WORK (707) 257-9588.

2. CONTROLLER SERVICE LOCATION SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION.

3. ELECTRICAL SERVICE AND LOW VOLTAGE CONDUIT SHALL BE 1 1/2" PVC SHD. 40, BURIED AT 18" DEEP.

4. CONTACT CITY OF NAPA ELECTRICAL DEPT. PRIOR TO BACKFILLING ANY ELECTRICAL TRENCHES.

5. CONTACT PG&E REGARDING LOCATION OF POWER SOURCE AND METERING REQUIREMENTS.

6. PAD SHALL BE 4" THICK ON 2" OF CLASS II A.B. CONCRETE SHALL BE CLASS "A" (6 SACKS PER CY).
NOTES

1. CONTROLLER CABINET LE MEUR MODEL SG-AJR OR APPROVED EQUIVALENT, COLOR GREEN, ON CONCRETE FOUNDATION WITH MIN. 24" APRON.

2. CONTROLLER SERVICE LOCATION SHALL BE ESTABLISHED BY THE CITY PRIOR TO CONSTRUCTION

3. LOW VOLTAGE CONDUIT SHALL BE 1 1/2" PVC SHD.40, BURIED AT 20" DEEP.

4. CONTROLLER AS SPECIFIED.

5. PAD SHALL BE 4" THICK ON 2" OF CLASS II A.B. CONCRETE SHALL BE CLASS "A" (6 SACKS PER CY)
CARSON 910-4B-BOLTDOWN
PLASTIC VALVE BOX WITH BOLT DOWN LID

3"

FINISH GRADE

QUICK COUPLING VALVE

3' LONG #4 REBAR STAKE
CLAMP IN TWO LOCATIONS

BRICK-3 EA.

1" SCHD. 80 PVC THREADED NIPPLE

SWING ASSEMBLY RAIN BIRD TSJ-12

PVC SCHED. 40 MAINLINE PIPE

PVC SCHED. 40 TEE OR ELBOW,
SLIP X THREADED

CITY OF NAPA

PARKS & RECREATION SERVICES DEPARTMENT

DRAWN BY: BRL
CHECKED BY: DMP
APPROVAL DATE: 06/2018
APPROVED BY: JRL
SCALE: NONE
DRAWING NO. PL-4
REVISED DATE: NONE
1/2"X10" SCHD. 80 PVC NIPPLE

FINISH GRADE/TOP OF MULCH

1/2"X10" SCHD. 80 PVC NIPPLE

PVC SCHED. 40 LATERAL PIPE

PVC SCHED. 40 TEE OR ELBOW

BUBBLER HEAD
RAIN BIRD 1400 SERIES

SWING ASSEMBLY
RAIN BIRD MODEL SA 6050

±2"
1. CONTRACTOR TO INSTALL TWO (2) BUBBLERS FOR EACH TREE LOCATED IN A SQUARE TREE "CUT-OUT" AS SHOWN ON THE IRRIGATION PLANS.

2. SEE CITY STD. T1 & T2 FOR TREE PLANTING REQUIREMENTS.

3. 10-IN ZONE RAIN BIRD ROOT WATERING SYSTEM. RWS-W-B-C-1402 FOR TREES WITH ROOT BALL DIAMETER LESS THAN 36-IN. RWS-B-C-1402 FOR TREES WITH ROOT BALL.
NOTES

1. WELDED WIRE MESH SHALL BE #6 T304 STAINLESS STEEL WIRE MESH AND SHALL BE INSTALLED UNDER BOX, WASHED GRAVEL AND AROUND 8" SCH 40 PVC PIPE.

2. GATE VALVE: THREE INCHES AND SMALLER SHALL BE NIBCO T-113 OR APPROVED EQUAL. FOUR INCHES AND LARGER SHALL BE NIBCO F-160-RW SERIES AS SPECIFIED.
FINISH GRADE
TOP MULCH/GRASS

POP-UP SPRINKLER

SWING ASSEMBLY
RAIN BIRD MODEL SA 6050,
OR APPROVED EQUAL.

PVC SCH. 40 LATERAL PIPE

PVC SCH. 40 TEE OR ELBOW

CITY OF NAPA
PARKS & RECREATION SERVICES DEPARTMENT

1/2" POP-UP SPRINKLER INSTALLATION

DRAWN BY: BRL
APPROVAL DATE: 06/2018
SCALE: NONE
REVISED DATE:

CHECKED BY: DMP
APPROVED BY: JRL
DRAWING NO. PL-7
FINISH GRADE
TOP MULCH/GRASS

TURF HEAD

3/4" SCH. 80 PVC NIPPLE

SWING ASSEMBLY
RAIN BIRD MODEL TSJ-120775, OR APPROVED EQUAL.

PVC SCH. 40 LATERAL PIPE

PVC SCH. 40 TEE OR ELBOW
SLIP X THREADED

3/4" TURF HEAD INSTALLATION

CITY OF NAPA
PARKS & RECREATION SERVICES DEPARTMENT

DRAWN BY: BRL
CHECKED BY: DMP
APPROVAL DATE: 06/2018
APPROVED BY: JRL
SCALE: NONE
REVISED DATE:
DRAWING NO. PL-8
FINISH GRADE
TOP MULCH/GRASS

TURF HEAD

SWING ASSEMBLY
RAIN BIRD MODEL TSJ-12,
OR APPROVED EQUAL.

PVC SCH. 40 LATERAL PIPE

PVC SCH. 40 TEE OR ELBOW

1" TURF HEAD INSTALLATION
NOTES

1. SCARIFY AND RECOMPACT THE UPPER 12" OF SUBGRADE TO 95% RELATIVE COMPACtion WITHIN THE LIMITS OF THE TRAILBED.

2. TRAIL SHALL HAVE A 5% MAXIMUM LONGITUDINAL GRADE.

3. REFERENCE GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES PREPARED BY THE AASHTO TASK FORCE ON GEOMETRIC DESIGN FOR DETAILS ABOUT HORIZONTAL ALIGNMENT, SIGHT DISTANCES, SIGNING AND MARKING, DRAINAGE, INTERSECTION, PAVEMENT STRUCTURE AND GRADE SEPARATION STRUCTURES.

4. 2' MINIMUM VEGETATION CLEARANCE ON EACH SIDE OF TRAIL. PRUNE ALL BRUSH OVER 12" HIGH AND 1/2" IN DIAMETER THAT EXTENDS INTO TRAILWAY.

5. CENTERLINE MARKING TO BE A 2" WIDE, CONTINUOUS YELLOW STRIPE.
NOTES

1. SCARIFY AND RECOMPACT THE UPPER 12 INCHES OF SURFACE OR SUBGRADE TO 95% RELATIVE COMPACTION WITHIN THE LIMITS OF THE COMPACTED TRAILBED.

2. TRAIL SHALL HAVE A 5% MAXIMUM LONGITUDINAL GRADE.

3. REFERENCE GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES PREPARED BY THE AASHTO TASK FORCE ON GEOMETRIC DESIGN FOR DETAILS ABOUT HORIZONTAL ALIGNMENT, SIGHT DISTANCES, SIGNING AND MARKING, DRAINAGE, INTERSECTIONS, PAVEMENT STRUCTURE, AND GRADE SEPARATION STRUCTURES.

4. 2' MINIMUM VEGETATION CLEARANCE ON EACH SIDE OF SHOULDER. PRUNE ALL BRUSH OVER 12" HIGH AND 1/2" IN DIAMETER THAT EXTENDS INTO TRAILWAY.

5. 2' MINIMUM SHOULDER OR CLEAR SPACE ON EACH SIDE OF TRAIL.
1. SCARIFY AND RECOMPACT THE UPPER 12 INCHES OF SUBGRADE TO 95% RELATIVE COMPACTION WITHIN THE LIMITS OF THE TRAILBED.

2. TRAIL SHALL HAVE A 5% MAXIMUM GRADE.

3. 3'-6" MINIMUM VEGETATION CLEARANCE ON EACH SIDE OF TRAIL. PRUNE ALL BRUSH OVER 12" HIGH AND 1/2" IN DIAMETER THAT EXTENDS INTO TRAILWAY.
1. USE TIMBERFORM MODEL NO. 2191-R METAL
2. CONCRETE FOOTING AND NO. 1 REBAR REQUIRED