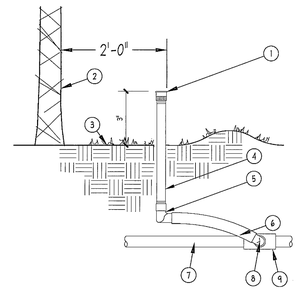
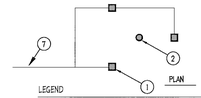


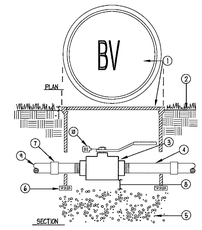


LEGEND

1. PRESSURE COMPENSATING FULL CIRCLE BUBBLER: RAIN BIRD 1401
2. PLANT MATERIAL
3. FINISH GRADE/TOP OF MULCH
4. UV RADIATION RESISTANT 1/2 INCH PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. 1/2-INCH FEMALE NPT x 0.490-INCH BARB ELBOW: RAIN BIRD MODEL 55PE-050
6. SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
7. PVC LATERAL PIPE
8. 1/2-INCH MALE NPT x .490-INCH BARB ELBOW: RAIN BIRD MODEL 55BE-050
9. PVC SCH 40 TEE OR ELL

N PALM BUBBLER

SCALE: NOT TO SCALE



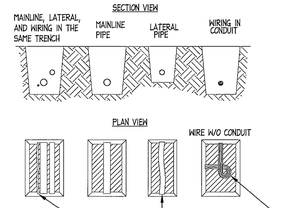
LEGEND

1. BROOKS #100 12"x17" ROUND VALVE BOX (TO BE PURPLE IN COLOR) BOLTDOWN COVER - HEAT BRAND "BV" ON VALVE BOX COVER IN 2" HIGH LETTERS.
2. FINISH GRADE.
3. SEE IRRIGATION PLAN
4. 1" SCH. 80 T.O.E. NIPPLE (TYPICAL) LENGTH AS REQUIRED.
5. 3/4" CRUSHED ROCK - 8" DEPTH.
6. COMMON BRICK (2 REQUIRED).
7. 1" PVC SWC 40 COUPLING, USE PRIMER AND GREY GLUE.
8. 2" CLEARANCE.
9. PVC MAIN LINE PIPE.
10. CARLISTY'S I.D. TAG (SEE NOTES).

• 1" IN TURF AREAS.
• 2" IN SHRUB AREAS.

E BALL VALVE

SCALE: NOT TO SCALE



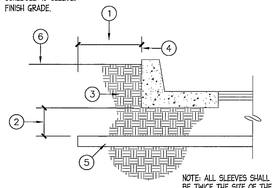
NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

D PIPE & WIRE TRENCHING

SCALE: NOT TO SCALE

LEGEND

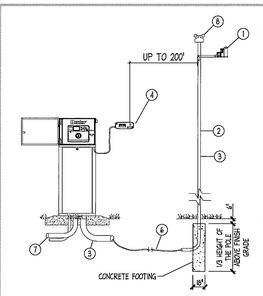
1. DISTANCE SHALL BE A MINIMUM OF 6". ALL SLEEVES SHALL MEET THIS REQUIREMENT INCLUDING THOSE WHICH ARE DIAGRAMMATICALLY SHOWN SHORT OF THE DISTANCE ON PLANS.
2. 12" MINIMUM.
3. BACKFILL AND COMPACTION SHALL MEET GRADING SPECIFICATIONS.
4. BACK OF CURB OR EDGE OF HARDSCAPE.
5. SCHEDULE 40 SLEEVE.
6. FINISH GRADE.



NOTE: ALL SLEEVES SHALL BE TWICE THE SIZE OF THE INTERNAL OBJECT.

O SLEEVING

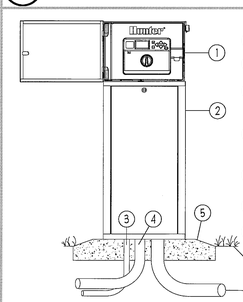
SCALE: NOT TO SCALE



1. SOLAR SYNC SENSOR
2. 2" GALVANIZED STEEL PIPE MOUNT IN LOCATION WHERE SENSOR CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL & WIND AND OUT OF SPRINKLER SPRAY PATTERN
3. CONDUIT FOR SENSORS COMMUNICATION WIRE, TO CONTROLLER OR 12" BELOW GRADE
4. SOLAR SYNC MODULE MOUNT LESS THAN 6' AWAY FROM CONTROLLER.
5. HUNTER IC CONTROLLER
6. COMMUNICATION WIRE, 18-2(WIRE TYPE TO MEET INSTALLATION CODE REQUIREMENTS), FROM MODULE TO SENSOR. MAXIMUM TOTAL WIRE DISTANCE, 200 FEET
7. POWER SOURCE
8. WIND SENSOR

M SENSOR SYSTEM DETAIL

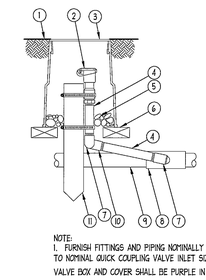
SCALE: NOT TO SCALE



1. MODEL IC-1801-PED
2. ACC-PED
3. 3/4" POWER CONDUIT: SIZE, TYPE, DEPTH PER LOCAL CODE
4. GROUND WIRE CONDUIT, MIN. 1 1/2". GROUND PER ASIC GUIDELINES
5. PEDESTAL BASE: CONCRETE OR PREFABRICATED
6. FINISH GRADE
7. CONDUIT FOR CONTROL WIRES

F CONTROLLER & PEDESTAL DETAIL

SCALE: NOT TO SCALE



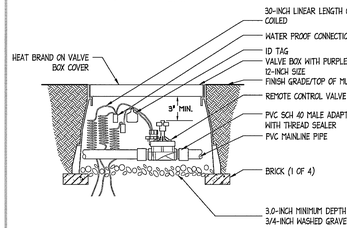
1. FINISH GRADE/TOP OF MULCH
2. QUICK-COUPLING VALVE: SEE IRRIGATION LEGEND
3. VALVE BOX WITH COVER: 6" SIZE PURPLE IN COLOR, HEAT BRAND "Q.C" ON VALVE BOX COVER IN 2" HIGH LETTERS
4. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. 3-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL
6. BRICK (1 OF 2)
7. PVC SCH 40 STREET ELL
8. PVC SCH 40 TEE OR ELL
9. PVC MAINLINE PIPE
10. PVC SCH 40 ELL
11. 2" x 2" REDWOOD STAKE W/ STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

VALVE BOX AND COVER SHALL BE PURPLE IN COLOR.

C QUICK COUPLING VALVE

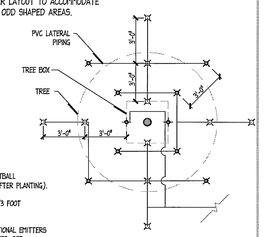
SCALE: NOT TO SCALE



P MASTER CONTROL VALVE

SCALE: NOT TO SCALE

NOTES:
1. SEE IRRIGATION LEGEND FOR ALL EMITTER SPECIFICATIONS.
2. ADAPT CONCENTRIC EMITTER LAYOUT TO ACCOMMODATE RECTILINEAR, SQUARE AND ODD SHAPED AREAS.

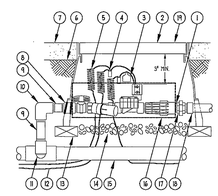


- EMITTER WATERING ORIGINAL ROOTBALL (PLUG EMITTER 30 TO 40 DAYS AFTER PLANTING).
- CONCENTRIC WATERING PATTERN (3 FOOT SPACING).
- X WATERING PATTERN WITH ADDITIONAL EMITTERS FOR MORE WATER DEMANDING TREES. SEE PLANTING LEGEND FOR SPECIFICATIONS.

NOTE: EMITTERS EQUALLY SPACED 3'-0".

L IRRIGATION EMITTER ARRANGEMENT

SCALE: NOT TO SCALE



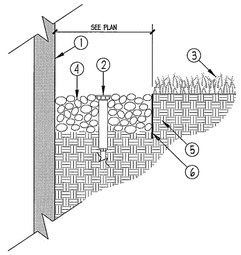
1. PVC SCH 80 NIPPLE (CLOSE)
2. VALVE BOX WITH COVER: 24-INCH SIZE (PURPLE)
3. ID TAG
4. WATER PROOF CONNECTION (1 OF 2)
5. 30-INCH LINEAR LENGTH OF WIRE, COILED
6. FINISH GRADE
7. TOP OF MULCH
8. PVC SCH 40 COUPLING
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. PVC SCH 40 ELL
11. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
12. PVC SCH 40 TEE OR ELL
13. BRICK (1 OF 4)
14. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
15. PVC MAINLINE
16. CONTROL ZONE KIT: RAIN BIRD MODEL XCZ-100 COM
17. PVC SCH 80 UNION FOR SERVICING ASSEMBLY
18. PVC SCH 40 MALE ADAPTER

H. HEAT BRAND ON VALVE BOX COVER

G XERIGATION CONTROL ZONE KIT

SCALE: NOT TO SCALE

NOTES: IRRIGATION SPRAY HEADS ADJACENT TO FENCE, WALLS, OR BUILDING SHALL BE INSTALLED INSIDE THE COBBLE STONE AREA BETWEEN THE HEADERBOARD.

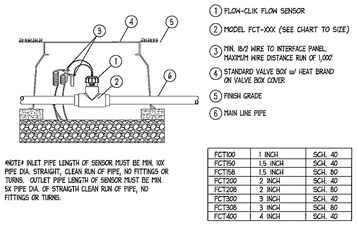


KEY NOTES

1. STEEL FENCE / WALL / BUILDING
2. POP-UP SPRAY SPRINKLER: SEE IRRIGATION LEGEND
3. SOD / FINISH GRADE
4. COBBLE STONE SEE PLANTING PLAN FOR FINISH MATERIALS
5. COMPACTED SUB-GRADE
6. STEEL HEADERBOARD SEE PLANTING PLAN FOR FINISH REQUIREMENTS

B POP-UP SPRAY SPRINKLER INSTALLATION DETAIL

SCALE: NOT TO SCALE



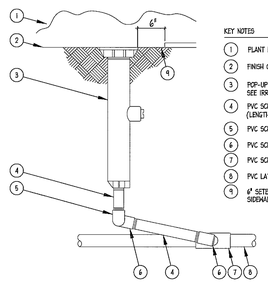
1. FLOW-CLIK FLOW SENSOR
2. MODEL FCT-XXX (SEE CHART TO SIZE)
3. MIN. 18/2 WIRE TO INTERFACE PANEL. MAXIMUM WIRE DISTANCE RUN OF 1,000'
4. STANDARD VALVE BOX w/ HEAT BRAND ON VALVE BOX COVER
5. FINISH GRADE
6. MAIN LINE PIPE

NOTE INLET PIPE LENGTH OF SENSOR MUST BE MIN. 10X PIPE DIA. STRAIGHT, CLEAN RUN OF PIPE, NO FITTINGS OR TURNS. OUTLET PIPE LENGTH OF SENSOR MUST BE MIN. 5X PIPE DIA. OF STRAIGHT CLEAN RUN OF PIPE, NO FITTINGS OR TURNS.

FCT100	1 INCH	SCH. 40
FCT150	1.5 INCH	SCH. 40
FCT156	1.5 INCH	SCH. 80
FCT200	2 INCH	SCH. 40
FCT206	2 INCH	SCH. 80
FCT300	3 INCH	SCH. 40
FCT308	3 INCH	SCH. 80
FCT400	4 INCH	SCH. 40

Q FLOW SENSOR DETAIL

SCALE: NOT TO SCALE

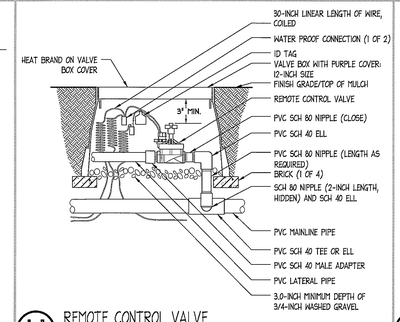


KEY NOTES

1. PLANT MATERIAL
2. FINISH GRADE/TOP OF MULCH
3. POP-UP SPRAY SPRINKLER: SEE IRRIGATION LEGEND
4. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. PVC SCH 40 ELL
6. PVC SCH 40 STREET ELL
7. PVC SCH 40 TEE OR ELL
8. PVC LATERAL PIPE
9. 6" SETBACK FROM CURBS, SIDEWALKS OR HARDSCAPE

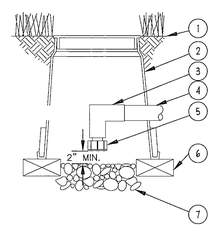
K POP-UP SPRAY SPRINKLER

SCALE: NOT TO SCALE



H REMOTE CONTROL VALVE

SCALE: NOT TO SCALE

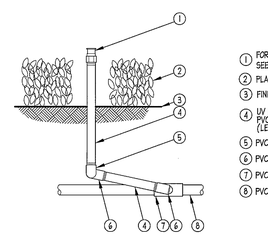


1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-BROD
3. PVC SCH 40 ELL
4. PVC LATERAL PIPE
5. FILTERED DRAIN VALVE: RAIN BIRD 16A-FDV
6. BRICK (1 OF 2)
7. 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

VALVE BOX AND COVER SHALL BE PURPLE IN COLOR IN ALL AREAS

A AUTOMATIC DRAIN VALVE

SCALE: NOT TO SCALE



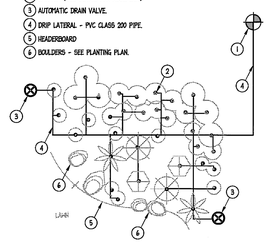
1. FOR NOZZLE SPECS, SEE IRRIGATION LEGEND
2. PLANT MATERIAL
3. FINISH GRADE/TOP OF MULCH
4. UV RADIATION RESISTANT PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. PVC SCH 40 ELL
6. PVC SCH 40 STREET ELL
7. PVC SCH 40 TEE OR ELL
8. PVC LATERAL PIPE

J EMISSION DEVICE ON RISER AT SHRUBS

SCALE: NOT TO SCALE

KEY NOTES

1. ELECTRIC EMITTER CONTROL VALVE ASSEMBLY.
2. EMITTER (SEE DETAIL FOR ASSEMBLY)
3. AUTOMATIC DRAIN VALVE.
4. DRIP LATERAL - PVC CLASS 200 PIPE.
5. HEADERBOARD
6. BOULDERS - SEE PLANTING PLAN.



I EXAMPLE DRIP EMITTER LATERAL SYSTEM

SCALE: NOT TO SCALE

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12-31-10
Renewal Date
01/18/10
Date
STATE OF CALIFORNIA

JAN 19 2010

PREVAILING WAGE JOB

BID SET

PALM SPRINGS ANIMAL CARE FACILITY

4575 E. MESQUITE AVE.
PALM SPRINGS, CA 92262

CITY OF PALM SPRINGS
PROJECT NO. CP. 07-24

APN: 680-020-010

Issue: BID SET

Rev	Date	By	Description
1	11/23/09	RAJ	BUILDING PERMIT SET.
2	01/04/10	RAJ	BUILDING PERMIT RESUBMITTAL

FOR BID ONLY
NOT FOR CONSTRUCTION

Drawn By RWP & RAJ
Checked By RWP
Job No. 0910
Issue Date 01/18/10
Scale As Noted

Drawing Title

IRRIGATION DETAILS

L4.1

Sheet

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