IRRIGATION DETAIL

1. CURB, SIDEWALK, ETC.
2. FINISH GRADE 1" BELOW TOP OF BOX
   1/2" FOR TURF  4 1" FOR GROUND COVER
3. ROUND PLASTIC VALVE BOX
   W/ LOCKING TOP (HEAT
   BRANDED 'BV' IN 2" LETTERS)
4. TRUE UNION BALL VALVE
5. 8xT SCH. 80 FITTING (TYP.)
6. 2 CF. PEÄ GRAVEL SUMP
7. SCH. 80 PVC NIPPLE
8. BRICK CONT. (TYP.X1 OF 4)

NOTE:
ALL VALVES TO BE
INSTALLED IN PLANTER AREAS
WHERE POSSIBLE

2/08

BALL VALVE
IRRIGATION DETAIL

1. 30- INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION
3. ID TAG: RAIN BIRD VID SERIES OR EQUAL
4. REMOTE CONTROL VALVE
5. VALVE BOX WITH COVER
6. TOP OF MULCH BELOW TOP OF COVER
   1/2" FOR TURF 4 1/2" FOR GROUND COVER
7. PVC SCH 80 NIPPLE
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 40 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 30-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

NOTE:
FOR RECLAIMED WATER USE PURPLE VALVE BOX COVER, PIPE, ET. AL.
IRRIGATION DETAIL

NOTES:
1. ALL THREADED FITTINGS MUST HAVE 3/4" TEFILON TAPE
2. PROVIDE QUICK COUPLER KEY PER SPECS.
3. USE ONE "4X36" REBAR FOR QCV
4. PROVIDE 3" CLEARANCE BETWEEN VALVE & BOX
5. PROVIDE 2 EA. CLAY BRICKS UNDER VALVE BOX (TYP.)
6. ALL QCV'S MUST HAVE A 1" SCH 80 BALL VALVE UPSTREAM MAINLINE.

DOMESTIC WATER SOURCE IN RECLAIMED WATER AREA

PLAN VIEW

B.V. Q.C.V.

CITY OF PERRIS
CITY LANDSCAPE ARCHITECT
RON KAMEYER

QUICK COUPLER VALVE
(ADJACENT TO RECLAIMED WATER SYSTEMS)
1. Finish grade.
2. Pop-up spray head with anti-drain valve. Set top of head 1/2" above grade.
3. SCH. 80 PVC TXT 90° ELL
4. SCH. 80 PVC TXT 90° STREET ELL
5. SCH. 80 PVC NIPPLE (TYP.)
6. Lateral line pipe (SCH. 40) and fitting.
7. SCH. 80 PVC TXT 90° STREET ELL
8. New prefab swing joint. Allow for tee to point up. Point tee up for easy installation.
IRRIGATION DETAIL

1. ANTI-SIPHON VALVE
2. TAPE CONTROL WIRE TO PVC NIPPLE
3. SCH. 80 PVC NIPPLE (TYP)
4. FINISH GRADE
5. SCH. 80 PVC ELL ADAPT TO LATERAL LINE
6. CONTROL WIRE TO CONTROLLER
7. SCH. 80 PVC ELL ADAPT TO MAIN LINE
8. SCH. 40 LATERAL

NOTE:
INSTALL ANTI-SIPHON VALVE 12" MIN. ABOVE HIGHEST HEAD 4" PER LOCAL CODE

MAIN LINE

6" MIN. GRADE 4'
12" ABOVE HIGHEST HEAD

6" MINIMUM

18" MINIMUM

LATERAL LINE

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ANTI-SIPHON VALVE
(RESIDENTIAL USE ONLY)
IRRIGATION DETAIL

1. FEBCO 825YA REDUCE PRESSURE BACKFLOW
2. BRASS RISER, SIZE TO MATCH BACKFLOW
3. CONCRETE BASE
4. COMPACTED SUB-GRunde
5. FINISH GRADE, 1" BELOW CONCRETE PAD
6. VALVE BOX

1. BALL VALVE
2. TO BALL VALVE
3. 3/4" CRUSHED STONE
4. SMALL RECTANGULAR VALVE BOX W/OUT LID
5. FROM METER
6. STAINLESS STEEL ENCLOSURE
7. BRASS T x T COUPLER
8. BRASS ELBOW

NOTE: SCREEN WITH SHRUBS WHEN POSSIBLE

2/08

REDUCED PRESSURE BACKFLOW PREVENTER
IRRIGATION DETAIL

LEGEND:

1. HARDSCAPE SURFACE
2. CLEAN BACKFILL AS REQUIRED. TO BE SET IN 6" LIFTS.
3. LATERAL LINE WITH SLEEVE.
4. PRESSURE MAIN LINE WITH SLEEVE.
5. CLEAN SAND.
6. CONTROL WIRES & COMPUTER HARDWARE WIRE SLEEVE.

NOTES:

ALL SLEEVES TO BE PVC, SCH. 40 AND TWICE THE DIAMETER OF THE WORKING PIPE.

ALL SLEEVES TO RUN A MN. OF 12" BEYOND HARDSCAPE EDGES.

CLEAN BACKFILL MAY BE SUBSTITUTED FOR SAND UNDER WALKS AND DRIVES.

SLEEving

12/07
IRRIGATION DETAIL

NOTE:
1. CONTROLLER WIRES WILL BE PLACED IN SCH 40 PVC SLEEVE FROM WHERE WIRES ENTER GARAGE TO CONTROLLER.
2. MOUNT CONTROLLER ON GARAGE WALL. PLACE BASE OF CONTROLLER 48" FROM FINISH SURFACE OF GARAGE FLOOR.
3. RAIN SHUT-OFF DEVICE REQUIRED

1. INDEPENDENT STATION CONTROLLER, WALL MOUNTED
2. HARD WIRE P.O.C.
3. 1 1/2" PVC SCH 40 CONDUIT AND FITTINGS
4. JUNCTION BOX
5. WIRES TO REMOTE CONTROL VALVES
6. 1" PVC SCH 40 CONDUIT TO POWER SUPPLY
IRRIGATION DETAIL

NOTES:
1. ALL THREADED FITTINGS MUST HAVE 3/4" TEFON TAPE
2. PROVIDE QUICK COUPLER KEY PER SPECS.
3. USE TWO 4X36" REBAR FOR QCV FOR SPORTS FIELDS
4. PROVIDE 3" CLEARANCE BETWEEN VALVE & BOX
5. PROVIDE 2 EA. CLAY BRICKS UNDER VALVE BOX (TYP.)
6. ALL QCV'S MUST HAVE A 1" SCH 80 BALL VALVE UPSTREAM MAINLINE.
IRRIGATION DETAIL

1. Finish grade, 1/2" below top of head
2. Rotor pop-up sprinkler:
3. PVC SCH 80 nipple (Length as required)
4. PVC SCH 40 Ell
5. PVC SCH 40 street Ell
6. PVC lateral pipe, SCH. 40
7. PVC SCH 40 TEE or ELL

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CITY OF PERRIS
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ROTOR SPRAY

I-11
IRRIGATION DETAIL

NOTE: FOR WIRE SIZES NO. 14, NO. 12 AND NO. 10

STEP 1

SLIP BASE SOCKET OVER END OF WIRE

STRIP WIRES APPROXIMATELY 5/8" FROM ENDS, TWIST ENDS TOGETHER

APPLY SEALER TO OUTSIDE OF SEALING PLUG, FILL CAVITY WITH SEALER

PUT CRIMP SLEEVE OVER WIRE ENDS, CRIMP SLEEVE AND CUT OFF EXCESS WIRE

FULL BASE SOCKET OVER WIRE END AS FAR AS POSSIBLE

STEP 3

PUSH SEALING PLUG INTO BASE SOCKET

PUSH WIRES TO END OF BASE SOCKET TO ASSURE COMPLETE SEALING OF CONNECTION

STEP 4

WIRE CONNECTOR

2/08
IRRIGATION DETAIL

MAIN SUPPLY, LATERAL, & LATERAL WIRING

LEGEND:

1. MAINLINE WIRING - TAPE & BUNDLE 10 FT. O.C. MAX.
2. LATERAL LINE
3. MAINLINE
4. ALL MAINLINES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS
5. SNAKE ALL PLASTIC PIPE INTO TRENCHES AS SHOWN.
6. PROVIDE A 20" LOOPS IN WIRE ALL CHANGES OF DIRECTION GREATER THAN 30°. REMOVE TIES AFTER ALL CONNECTIONS HAVE BEEN MADE.
7. INSTALL ALL 120V WIRE IN CONDUIT PER LOCAL CODE

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TRENCHING

I-13
IRRIGATION DETAIL

1. ATMOSPHERIC VACUUM BREAKER (AVB) - LINE SIZE
2. FINISH GRADE
3. PVC MALE ADAPTOR (TYPICAL)
4. SCH. 80 PVC NIPPLE (TYP)
5. STREET ELBOW
6. FROM CONTROL VALVE
7. TO SYSTEM
8. SCH. 80 PVC
9. UVR PVC LATERAL LINE PIPING
10. J-HOOKS REQUIRED TO ABOVE GROUND PIPE

NOTE: INSTALL ATMOSPHERIC VACUUM BREAKER 12" ABOVE THE HIGHEST HEAD IN THE SYSTEM.
BROWNLNE: LOCATE ON SLOPE OR BURY 12" SCH. 40 LATERAL

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IRRIGATION DETAIL

BUILDING EDGE, WALL, ETC.
SHRUB SPRAY HEAD

SCH. 80 PVC NIPPLE
THREADED BOTH ENDS

FINISH GRADE

PVC STREET ELL.

SWING JOINT W/ TXT FEMALE
COUPLING TO RISER.

PVC LAT. LINE

2/08

SPRAY ON RISER
IRRIGATION DETAIL

BUILDING EDGE, WALL, ETC.
SHRUB SPRAY HEAD

RISER 90° TO
SLOPE

SHRUB SPRAY HEAD

TEFLON TAPE THREADS

MIN. 12" SCH. 80 RISER

STAKE EVERY HEAD W/#4X16
LONG REBAR

SECURE BROWNLINE LATERAL
AT SOIL SURFACE W/#3 J-BAR
PINS @ 10'-0" O.C.

FINISH GRADE

SCH. 40 SUPPLY LINE

PVC STREET ELLS
(2 EA.)

2/08
IRRIGATION DETAIL

- SIDE YARD GATE
- HOUSE SUPPLY SHUT OFF VALVE
- HOSE BIB
- MAINLINE TO LANDSCAPE IRRIGATION
- HOUSE SUPPLY LINE
- FINISH GRADE
- GATE VALVE TO ISOLATE LANDSCAPE IRRIGATION SYSTEM. LOCATE IN A 6" DIA. VALVE BOX. INSTALL PRIOR TO HOUSE REGULATOR.

LOCATE CONTROL VALVES ALONG GARAGE SIDE OF HOUSE.

CONTRACTOR TO STUB FOR FUTURE VALVES AND PROVIDE (3) CONTROL WIRES AND (1) COMMON WIRE.

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R. KAMMEYER

TYPICAL HOUSE CONNECTION I-17
IRRIGATION DETAIL

1. Rectangular plastic valve box marked "MV" (2" high letters) locking lid
2. PVC male adapter
3. 4" nipple
4. PVC male adapter
5. Female adapter
6. 3/4" crushed rock slump 1 cu. ft. at 6" depth
7. 24" wire expansion coils, bundle and tape wires to mainline
8. Epoxy wire connectors and control wires
9. Finish grade

TO BACKFLOW PREVENTER
TO VALVES

2/08

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RON KAMMEYER

MASTER VALVE

I-18
IRRIGATION DETAIL

1. FINISH GRADE
2. JUMBO VALVE BOX & COVER
3. CONTROL WIRES WITH 12" MIN. SERVICE COIL AND WATERPROOF WIRE SPLICE CONNECTORS - MARKED "FS" (2" HIGH LETTERS)
4. FLOW SENSOR
5. PVC 45 DEGREE ELL (TYP.)
6. MINIMUM 1"X PIPE DIAMETER UPSTREAM & MINIMUM 5X PIPE DIAMETER DOWNSTREAM OF STRAIGHT PIPE
7. PVC 45 DEGREE ELL (TYP.) BUSH DOWN TO FLOW METER SIZE AS NECESSARY
8. PVC MAINLINE - LENGTH AS REQUIRED
9. 3/4" GRAVEL (1 CU. FT.)
10. CONTINUOUS BRICK SUPPORTS
11. VALVE BOX EXTENSIONS AS REQUIRED

FLOW SENSOR
IRRIGATION DETAIL

1. Discharge flanged tee
2. Companion flange
3. Pressure gauge
4. Pressure gauge
5. Bypass - 2" min.
6. Butterfly valve
7. Flow switch to be installed in section header wired to pump panel
8. Flanged 90° combination pressure regulating and non-slam check valve
9. Bailey 400 ACP or Cla-Val 51A
10. Flanged concentric reducer
11. Pump & motor
12. Controller (3 phase, 230 volt)
13. Controller support
14. Sealite conduit
15. Support leg
16. 36" x 42" x 20" Sheet metal enclosure for exterior pump installation
17. Galvanized steel skid, with 4 9/16" holes
18. Pre-cast concrete pad
19. Rigid steel conduit to power source

Notes:
1. Enclosure is required
2. Contractor to verify available voltage compatible with motor specifications

IRRIGATION BOOSTER PUMP I-20
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IRRIGATION DETAIL

1. 1 1/2" - 9 EXPANDED METAL
2. 1 1/2"X1 1/2"X3/16" ANGLE FRAME
3. CONCRETE PAD
4. HASP FOR PAD LOCK
5. LIFTING HANDLE
6. HINGE PLATE

NOTES:
1) FINISH TO BE TWO COATS OF SEMI-GLOSS GREEN ENAMEL PAINT
2) FOR UNITS 2" AND UNDER USE SINGLE SWING HINGE MODEL
3) STAINLESS STEEL REQUIRED FOR ALL LANDSCAPE MAINTENANCE DISTRICT AREAS.

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ENCLOSURE IN OPEN POSITION

SIDE VIEW

ENCLOSURE IN CLOSED POSITION

2/08
IRRIGATION DETAIL

1. 10" ROUND VALVE BOX WITH LOCKING LID, "PR" TO BE BRANDED ON LID. USE VALVE BOX EXTENSIONS AS NECESSARY TO REACH FINISH GRADE

2. FINISH GRADE

3. PRESSURE ADJUSTMENT SCREW

4. PRESSURE REGULATOR

5. PIPE TO IRRIGATION SYSTEM

6. PIPE FROM BACKFLOW PREVENTER

7. 3/4" WASHED CRUSHED AGGREGATE BASE

FLOW

2/08

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PRESSURE REDUCING VALVE
I-22
IRRIGATION DETAIL

1) 10" ROUND PLASTIC VALVE BOX WITH LOCKING LID
   COVER SHALL BE MARKED "GV" VIA BRANDING

2) FINISH GRADE
3) BRASS GATE VALVE WITH BRONZE HAND WHEEL
4) 3/4" WASHED CRUSHED AGGREGATE BASE
5) SCH 80 PVC CLOSE NIPPLE
6) SCH 80 PVC UNION (1/2" x 1/2")
7) SCH 80 PVC TOE NIPPLE ASSEMBLY

NOTES:
1) PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX
2) IF BALL VALVES ARE USED, A JUMBO RECTANGULAR BOX SHALL BE INSTALLED
3) CAST IRON AND / OR FLANDED VALVES WILL REQUIRE A Poured-IN-PLACE
   CONCRETE SUPPORT (NOT SHOWN).

2/08

GATE VALVE

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I-23
IRRIGATION DETAIL

1. Plastic valve box with locking lid branded X-GV or BV
2. Pig-tail common wire (continuous loop)
3. Brass gate valve - line size
4. Pig-tail pilot wire and waterproof end
5. Finish grade
6. Supply line size per plan
7. 3/4" washed crushed gravel
8. SCH 80 PVC union (FIPT x FIPT)
9. SCH 80 PVC toe nipple assembly
10. SCH 80 45° elbow
11. SCH 80 PVC close nipples
12. SCH 80 PVC cap

NOTES:
1) Place aggregate prior to installation of valve box
2) Gate valve to remain at time of installation of new remote control valve box.

IRRIGATION STUB-OUT BOX

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1-24
LANDSCAPING DETAIL

1. Hardscape safety edge i.e., concrete, stamped concrete etc.
2. Concrete curb
3. Finish grade
4. Lateral line location (Schedule 40)
5. Main line location

NOTES
1) Pipes placed in common trench shall have a vertical & horizontal offset of 3” min.

WITH BAND
Required minimum one side of median

24”-30”
12”-18”
12”-16”
18”-24”

WITHOUT BAND

12”-16”
18”-24”
24”-30”
12”-18”

R. Kam Meyer
City Landscape Architect

CITY OF PERRIS
MEDIAN SAFETY EDGE AND
IRRIGATION LINE INSTALLATION

I-25
IRRIGATION DETAIL

1. GEARED SHRUB MOTOR

2. SCH. 80 3/4" PVC RISER (LENGTH AS REQ'D) (REBAR STAKED W/ 2 STAINLESS STEEL CLAMPS IF 6" OR MORE EXPOSURE)

3. FINISH GRADE (ALIGN HEAD PERP. WITH ANGLE OF SLOPE)

4. 3/4" SCH. 40 PVC 90° ELL (FIPT x FIPT)

5. 3/4" MARLEX 90° STREET ELL (MIPT x FIPT)

6. 3/4" x 8" SCH 80 NIPPLE

7. PVC TEE

8. ANTI-DRAIN VALVE ON DOWN SLOPE ROTORS IF NOT FITTED IN BY MFG.

9. 3/4" PVC LATERAL LINE OR LARGER

10. STAINLESS STEEL SCREW, CLAMP MIN. (2) PLACES.

11. #4 REBAR STAKE (24" LONG)

12. SCH. 80 NIPPLE

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ROTOR INSTALLATION ON FIXED RISER
I-26
IRRIGATION DETAIL

1. TREE TRUNK
2. 2" LODGE POLE STAKES
3. FINISH GRADE: 2" BELOW TOP OF WALK
4. 6" POP-UP SPRINKLER WITH FLOOD BUBBLER INSERT
5. CONCRETE SIDEWALK
6. MARLEX DOUBLE STREET ELLS (MIPT x FIPT)
7. LATERAL IRRIGATION LINE - THRU "CHIMNEY" - BOTH SIDES
8. 6"x24" LG PERFORATED ABS DRAIN PIPE WITH 1/2" GRAVEL FILLED TO TOP OF ACT. PREFAB UNIT.
9. TREE PLANTING PIT WIDTH OF 2X ROOTBALL DIAMETER
10. PLANT TABLETS PER MANUF. SPECIFICATIONS (DISTRIBUTED AROUND ROOTBALL)
11. TEE AROUND PERIMETER OF TREE WELL.
12. UNDISTURBED NATIVE SOIL
13. INSTALL VERTICAL ROOT BARRIER PER MANUF. SPEC'S.
14. ROOTBALL
15. SCH 80 NIPPLE (LENGTH AS NECESSARY)
16. MULCH

DEEP WELL TREE IRRIGATION: DRIPIP AND/OR BUBBLER

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IRRIGATION DETAIL

PLAN VIEW

LEGEND:
1. SUBGRADE (TYPICAL)
2. TYPICAL CONCRETE PLACEMENT
NOTES:

1. CONTRACTOR SHALL PROVIDE 5 BOOT TEE WRENCH WITH SQUARE NUT FOR BUTTERFLY VALVE OPERATION

2. PROVIDE 4 EA. CLAY BRICKS UNDER VALVE BOX (TYP.)
IRRIGATION DETAIL

Valve boxes shall be placed in shrub bed, a uniform distance and parallel to the mow strip.

Legend:
1. Conc mow strip or edging & shrub / groundcover bed edge per plan.
2. Rectangular valve box for control valves, flow sensors, master valves.
3. Round valve box for quick couplers, gate or ball valve.
4. Shrub & groundcover planting area.
5. Turf planting area.
6. Conc. walk, pathway or flatwork per plan.
7. When possible group valves together.

2/08

Ron Kammeier
City Landscape Architect

Valve Box Placement

I-31
IRRIGATION DETAIL

NOTES:

1. SECURE STRAINER TO PAD PER MANUFACTURER'S RECOMMENDATIONS

2. PROVIDE 4 EA. CLAY BRICKS UNDER VALVE BOX (TYP.)
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IRRIGATION DETAIL

NOTES:
1. INSTALL FILTER DIRECTLY DOWNSTREAM OF BACKFLOW PER MANUFACTURER'S RECOMMENDATIONS
2. FILTER REQUIRED AT ALL POINT OF CONNECTIONS
3. PROVIDE 4 EA. CLAY BRICKS UNDER VALVE BOX (TYP.)

2/08
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CITY LANDSCAPE ARCHITECT
RON KAMMEYER

MAINLINE INLINE FILTER I-33
NOTES:

1. ALL WIRING MUST CONFORM TO LOCAL CODES
2. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION
3. PROVIDE 3" CLEARANCE BETWEEN WIRES & BOX
4. ELECTRICAL SLEEVE OPEN END SHALL BE SEALED WITH EXPANSION FOAM
5. PROVIDE 4 EA. CLAY BRICKS UNDER VALVE BOX (TYP.)
IRRIGATION DETAIL

TRIPLE SWING ASSEMBLY

1. FINISH GRADE
2. POP-UP SPRAY/ROTOR
3. PVC LATERAL
4. SCH 80 TEE OR ELBOW
5. SCH 80 PVC NIPPLE 6" MIN.
6. SCH 80 MARLEX 90 DEGREE STREET ELBOW
7. SCH 80 PVC 90° ELBOW

HEAD AT TOP OF SLOPE

2/08
IRRIGATION DETAIL

NOTES:
1. USE 3/4" TEFLON TAPE AT ALL SCH 40 ELLS
2. INSTALL HEAD PERPENDICULARLY PLUMB TO ADJACENT GRADE.
3. ADJUST NOZZLE TO PREVENT OVERSPRAY ONTO HARDSCAPE.
4. INSTALL HEADS 4" FROM HARDSCAPE EDGE IN TURF AREAS.
5. INSTALL HEADS 4" FROM HARDSCAPE EDGE IN PLANTER AREAS.
6. THE CONTRACTOR MAY SUBSTITUTE SWING JOINT ASSEMBLIES.

FINISH GRADE
1/2" ABOVE FINISH GRADE
RUBBER COVER
ROTOR
3/4" SCH 80 STREET ELLS
3/4" SCH 80 NIPPLE
(LENGTH AS REQUIRED)
3/4" SCH 80 STREET ELL
SCH 80 PVC TEE
PVC LATERAL LINE

TURF ROTOR
IRRIGATION DETAIL

NOTES:
1. USE 3/4" TEFLON TAPE AT ALL SCH 40 ELLS.
2. INSTALL HEAD PERPENDICULARLY PLUMB TO ADJACENT GRADE.
3. ADJUST NOZZLE TO PREVENT OVERSPLASH ONTO HARDSCAPE.
4. INSTALL HEADS 4' FROM HARDSCAPE EDGE IN TURF AREAS.
5. INSTALL HEADS 4' FROM HARDSCAPE EDGE IN PLANTER AREAS.
6. THE CONTRACTOR MAY SUBSTITUTE SWING JOINT ASSEMBLIES.