

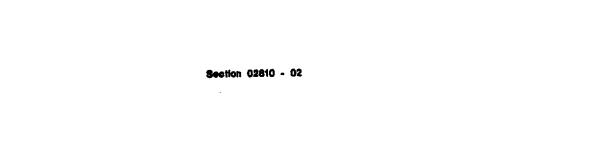
A. Sprinkler Mains: Test aprinkler main only for a period of twelve (12) to feurteen (14) hours under normal pressure. If tesks ecour, replace joint or joints and repeat test.

8. Complete tests prior to backfilling. Sufficient backfill material may be placed in tranches between fittings to insure stability of line under pressure. In each case, leave fittings and couplings open to visual inspection for full period of test.

A. After inetallistion has been completed, make final adjustment of sprinkler system in properation for Landscape Architect's final inspection. Completely flush system to remove debrie from these and turning on system. Check sprinklers for preper operation and proper alignment for direction of flow. Check each sestion of spray heads for operating pressure and belance to other sections by use of flow adjustment and top of each valve. Check nozzling for proper coverage. Preveiling wind conditions may indicate that arch of engle of spray should be other than shown on drawings. In this case, shance nozzles to provide correct coverage.

END OF SECTION Section 02810 - 05

case, change nozzies to provide correct coverage.



FINISHED GRADE - MULCH

CLASS 200 PVC LATERAL LINE

MALE ADAPTER (MIPT X S)

FLEXIBLE PVC (LENGTH AS REQUIRED)

approvel.

Project Record Documents

1. Comply with Division 1 requirements.
2. Leasts by written dimension, reuting of mainline piping, remote control valves and
3. When dimensioning is complete, transpose work to myler reproducible tracings.

Weekings will be provided by Architect.

4. Submit completed tracings prior to final acceptance. Mark tracings "Record Prints

5. Provide three complete operation menuals and equipment brochures neetly bound in

5. Provide three complete operation menuals and equipment brochures nestly bound in Quick Coupter Keys: Provide 3 coupter keys with boiler drains attached using brass reduces Controller Keys: Provide two sets of keys to controller enclosure(s). Use of meterials differing in quality, size, or performance from those specified will only be allowed uses written approved of Counce/Landscape Architect. The decision will be based on comparative ability of meterial or article to parform fully all proposes of mechanics and general design considered to be possessed by item specified.

Bitaliers destine to make a substitution for specified sprinklers shall submit manufacturers contains about the state of each type sprinkler proposed as a substitute, including discharge in GPM meximum allowable operating pressure at apprinkler.

eprintier.

Approved of substitute aprinter shall not relieve Contractor of his responsibility to demonstrate that final installed aprinter system will operate seconding to intent of columnly designed and specified system.

It is the responsibility of the irrigation Contractor to demonstrate that final installed aprinter system will operate seconding to intent of originally engined and specified system. If trigation Contractor notes any problems in head specing or potential ecuarage, it is his responsibility to notify the Landscape Architect in writing, before proceeding with work. Irrigation Contractor guarantees 186% coverage of all areas to be irrigated.

A. Perform testing required with other trades, including sertimork, paving, and plumbing, to avoid unnecessary outling, petching and boring.

B. Weter Pressure: Prior to starting construction, determine if static water pressure is at

A. Coordinate installation with other trades, including earthwork, paving, and plumbing, to avoid unnecessary outling, patching and boring.
 Coordinate to ensure that electrical power source is in piece.

Coordinate system installation with work specified in other sections and occidents with leaderspe installer to ensure plant material is uniformly watered in accordance with intent shown on drawings.

A. Meinline: Piping from water source to operating valves. This portion of piping is subject to surges, being a closed pertion of sprinkler system. Hydrent lines are considered a part of sprinkler main.

B. Lateral Piping: Lateral piping is that portion of piping from operating valve to aprinkler heads. This portion of piping is not subject to surges, being an "open end" portion of aprinted system.

1.5 SUBMITTALS

PART 2 - PRODUCTS

2.2 POLY VINYL CHLORIDE PIPE (PVC PIPE)

2.4 COPPER TUBE FITTINGS

2.7 MATERIALS - See irrigation Pian

plented trace or shrubs.

A. PVO pipe shall be manufactured in accordance with commercial standards noted herein.

O. PVC Pipe Fittings: Shall be of the same material as the PVC pipe specified and shall be compatible with PVC pipe furnished.

A. Type UF with 4-64" insulation which is Underwriter's Laboratory approved for direct underground burist when used in a National Electric Code Class ii Circuit (30 volts AC or less).

A. Composed of Standard Schedule 40 PVC Fittings and PVC meeting noted standards.

No clamps or wires may be used. Nipples for 1812 heads and shrub risers to be nominal one-half (1/2") inch diameter by eight (8") inches long, where applicable.

B. Polyethylene nipples six (8") inches long to be used on all 1804 and 1806 pop-up spray heads.

A. Sprinkler heads in lawn area as specified on plan.
B. PVC Pipe: Class 200, SPR 21
Copper Tubing iCity Connection: Type "M"
24V Wher Size 14, Type U.F.
C. Electric valves to be all plastic construction as indicated on plans.
D. Refer to drawing for backflow prevention requirements and flow valve. Coordinate exact location with Landscape Architect.

A. Staking: Before installation is started, place a stake where each sprinkler is to be located, in accordance with drawing. Staking shall be approved by Landscape Architect before proceeding.

B. Excavations: Excavations are unclassified and include earth, locae rock, rock or any combination thereof, in wet or dry state. Beakfill transhes with material that is suitable for compaction and contains no lumps, clods, rock, debris, etc. Special backfill specifications, if furnished take preference over this general specification.

C. Backfill: Flood or hand-tamp to prevent after settling. Hand rake transhes and adjoining area to leave grade in as good or better condition than before installation.

D. Piping Layout: Piping layout is disgrammatic. Route piping around trees and shrubs in such a manner as to avoid damage to plantings. Do not dig within bell of newly planted trees or shrubs.

Section 02810 - 03

A. Hard, straight, lengths of domestic manufacture only. No copper tube of foreign extrusion or any so-called irrigation tubing (thin wall) shall be used.

A. Cast brass or wrought copper, sweat-solder type.

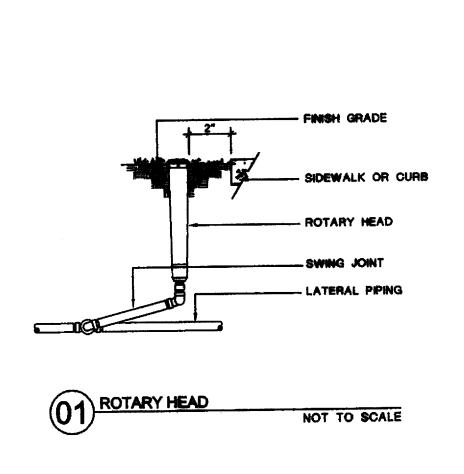
B. Marking and identification: PVC pipe shall be continuously and permanently marked with the following information: manufacturer's name, pipe size, type of pipe, and material, SDR number, product standard number, and the NSF (National Sanitation Foundation)

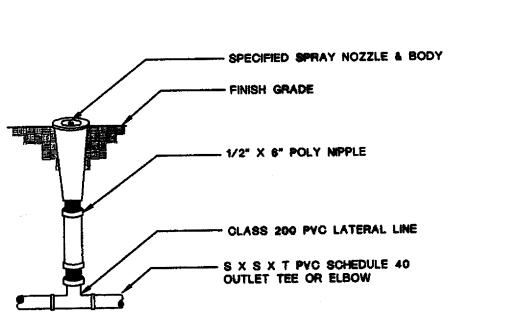
A. Sprinkler Mains: Install a four (4") Inch minimum trench with a minimum of eighteen (18") inches of cover.

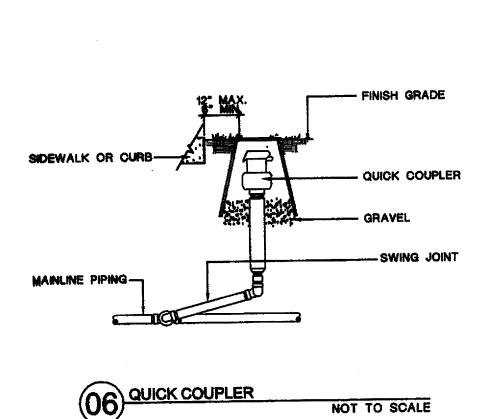
B. Lateral Piping: install a four (4") inch wide minimum trench deep enough to allow for installation of sprinkler heads and valves, but in no case, with less than twelve (12") inches of cover.

C. Trenching: Remove lumber, rubbish, and large rocks from trenches. Provide firm, uniform bearing for entire length of each pipe line to prevent uneven settlement. Wadging or blocking of pipe will not be permitted. Remove foreign matter or dirt from inside of pipe before welding, and keep piping clean by approved means during and 3.3 PVC PIPE AND FITTING ASSEMBLY A. Solvent: Use only solvent recommended by manufacturer to make solvent-welded joints. Thoroughly clean pipe and filtings of dirt, dust and moisture before applying B. PVC to metal connection: Work metal connections first. Use a non-hardening pipe dope such as Permatex No. 2 on threaded PVC adapters into which pipe may be A. Clean pipe and fitting thoroughly and lightly send pipe connections to remove residue from pipe. Attach fittings to tubing in an approved manner using 50-50 soft solid core 3.5 SHRUB SPRAY HEADS (FIXED) A. Shrub Spray Heads: Supply in accordance with materials list, with nozzling in accordance with drawings. Drawings indicate size of nozzling and degree of arc. Determine correct degree of arc of nozzle (if conditions warrant) by area to be covered and by wind conditions that may affect coverage.

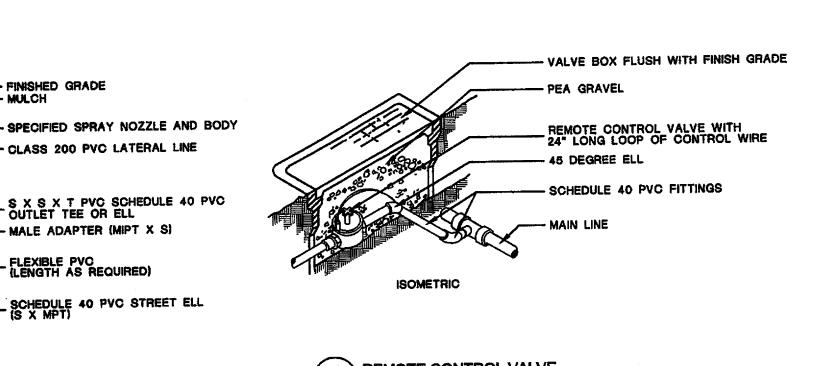
B. Height: Install heads on PVC Schedule 80 risers sufficiently high to water under shrubs and plants, or as directed by the Landscape Architect. Supply pop-up spray heads in accordance with materials list and plan. Attach sprinkler to lateral piping with a semi-flexible polyethylene nipple not less than tree (3") inches or more than six (6") inches long. A. Supply valves in accordance with materials list and sized eccording to drawings. Install valves in a level position in accordance with Manufacturer's Specifications. See plan for typical installation of electric valve, valve box. A. Supply wiring from the automatic sprinkler controls to the valves. No conduit will be required for U.F. wire unless otherwise noted on the plan. Wire shall be tucked under B. A separate wire is required from the control to each electric valve. A common neutral wire is also required from each control to each of the valves served by each particular Bundle multiple wires and tape them together at ten (10") foot intervals. Install ten (10") inch expension coll at not more than one hundred (100") foot intervals. Make spilces 3.9 AUTOMATIC SPRINKLER CONTROLS A. Supply in accordance with irrigation Plan. Install according to manufacturer's



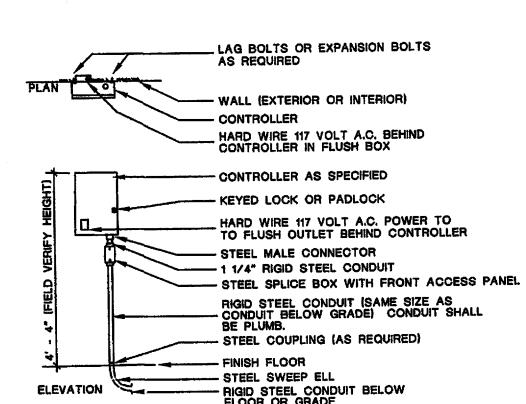


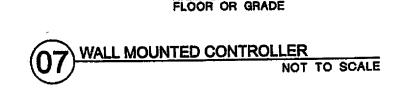


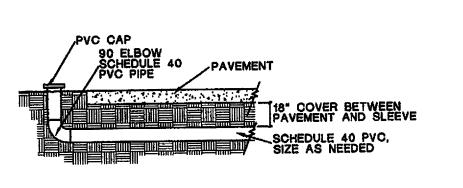
ELEVATION



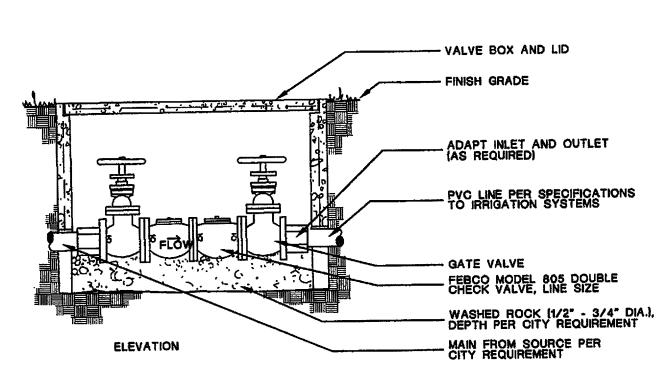
NOT TO SCALE







NOT TO SCALE



04 SLEEVE DETAIL

NOT TO SCALE

as Built DATE 3.17.06

DESIGN

BDA

BDA

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landscape architects, inc. 1708 N. Griffin Street Dallas, Texas 75202 Tel 214.871.0083 Fax 214.871.0545

IRRIGATION SPECIFICATIONS STARBUCKS - ADDISON PLAZA ADDITION S.W.C. BELT LINE ROAD & MIDWAY RD. THE TOWN OF ADDISON, TEXAS LAWRENCE A. CATES & ASSOC., LLP CONSULTING ENGINEERS DALLAS, TEXAS 14800 QUORUM DR., SUITE 200 (972) 385-2272 NOTES DATE SCALE

none

4.28.05

