

IRRIGATION NOTES:

- IRRIGATION LINES ARE SOMETIMES SHOWN OUTSIDE PLANTING BEDS FOR GRAPHIC CLARITY ONLY. ADJUST INSIDE BEDS ON SITE.
 AVOID TRENCHING WITHIN DRIP LINE OF EXISTING TREES. WHERE NECESSARY, TRENCH RADIALLY, RATHER THAN ACROSS THE ROOT
- 3. MAIN LINE TO BE 2". 4. ALL SLEEVES UNDER PAVING TO EXTEND 12" PAST EDGE OF PAVING. COORDINATE WORK WITH GENERAL AND PAVING
- 5. ALL HEADS TO BE 4" POPS IN LAWNS, 12" POPS IN PLANTING BEDS, AND 24" STATIONARY RISERS AGAINST WALLS AND BUILDINGS.
- 6. COORDINATE SLEEVE SIZE AND LOCATION FOR FREEZE SENSOR, RAIN GUAGE AND CONTROLLER WITH GENERAL CONTRACTOR. SEAL ALL BUILDING PENETRATIONS WATER TIGHT. 7. SEE DETAIL SHEET FOLLOWING FOR IRRIGATION DETAILS.

 8. PRESSURE ESTIMATED AT 52 PSI; MINIMUM 50 GPM AS PROVIDED BY CITY. VERIFY ON SITE AND REPORT TO LANDSCAPE ARCHITECT
- PRIOR TO BEGINNING ANY WORK. 9. CONTRACTOR RESPONSIBLE FOR LOCATION OF ALL UTILITIES INCLUDING BUT NOT LIMITED TO TELEPHONE, TELECABLE, ELECTRIC, GAS, WATER, AND SEWER. ANY DAMAGE TO UTILITIES TO BE REPAIRED BY CONTRACTOR AT NO COST TO OWNER. REFER TO SITE/UTILITY PLANS.
- 10. FREEZE SENSOR AND RAIN GUAGE INSTALLATION PER MANUFACTURER'S INSTRUCTIONS (MINI-CLIK F-401 & 502). LOCATION/HEIGHT TO AVOID DIRECT SPRAY OF IRRIGATION HEADS. 11. VERIFY 100% COVERAGE OF SYSTEM OVER ALL PLANTING & LAWN
- AREAS AS SHOWN ON DRAWINGS. 12. IF PEDESTAL MOUNTED CONTROLLER IS SPECIFIED, MOUNT ON 4"X3'X3' CONCRETE SLAB WITH (4) #4'S EACH WAY. SLEEVE
- THROUGH SLAB FOR CONTROLLER WIRING AS REQUIRED.

 13. UNLESS NOTED OTHERWISE, THERE ARE NO EXISTING SLEEVES.

 IRRIGATION CONTRACTOR TO SIZE AND COORDINATE SLEEVE INSTALLATION AS NEEDED IN ALL LOCATIONS UNDER PAVEMENT.

 14. QUANTITES ARE PROVIDED AS A COURTESY AND ARE NOT INTENDED
- FOR BID PURPOSES. CONTRACTOR TO VERIFY ALL QUANTITIES
- 15. IF DOUBLE CHECK IS PROHIBITED BY LOCAL CODE/ORDINANCE,
 SUBSTITUTE WITH APPROVED BACKFLOW PREVENTION DEVICE.

 16. ALL WORK IN ACCORDANCE WITH LOCAL, STATE, & NATIONAL CODES
- 17. CONTRACTOR TO SIZE CONTROL SIZE WIRE AS NECESSARY.
 HOWEVER, MINIMUM SIZE TO BE 14 GAUGE PER NATIONAL
 ELECTRICAL CODE. ALL SPLICES WITH APPROVED MANUFACTURED
 CONNECTOR IN VALVE BOX.
- 18. DO NOT LOCATE VALVE BOXES IN SWALES, LOW AREAS, OR ANY OTHER LOCATIONS THAT MAY COLLECT WATER. 19. CONTROLLER TO BE WIRED ON DEDICATED 110 VOLT CIRCUIT AND GROUNDED W/"GROUNDING SPIKE" PER MANUFACTURER'S
- 20. ADJUST HEADS TO AVOID OVERSPRAY ONTO STREETS AND
- 21. INCLUDE ONE SPARE WIRE FROM CONTROLLER TO EACH CONTROL VALVE. EACH WIRE TO BE VARYING COLOR.

22. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING FLOW CONTROL AND/OR PRESSURE REGULATOR AT EACH CONTROL VALVE AS NECESSARY TO MAKE SYSTEM OPERATE AS INTENDED.

Irrigation Equipment Table

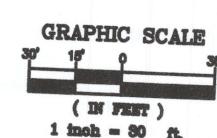
Quantity Symbol Equipment

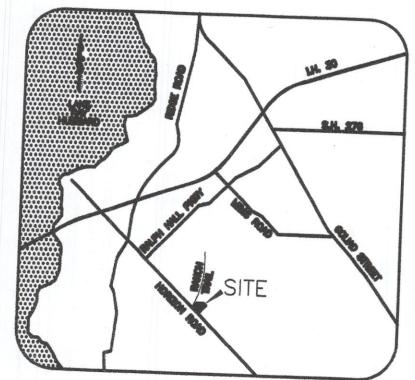
- Quick Couple Valve 1-1/2" In-Line Ball Valve
- IRRITROL MC-18 Plus-B
- 1-1/2" Double Check/Double Gate Valve 1-1/2" Wye Strainer FEBCO 650A
 - 1" Meter
- IRRITROL 700 Control Valve (size as indicated)
- HUNTER PGP-ADV Nozzle 8 (H), 6 (TH), 5 (Q) HUNTER PGP-ADV Nozzle 10 Low Angle (F)
 - TORO 570 Z 8' 090 TORO 570 Z 8' 240
 - TORO 570 Z 8' 180 TORO 570 Z 10' 240
- TORO 570 Z 10' 180 TORO 570 Z 15' 240
- TORO 570 Z 15' 180 TORO 570 Z 15' 090
- TORO 570 Z 9' SST

NOTE: FOR ALL DRIP CIRCUITS USE . HUNTER DRIPLINE PLD-04-18 (18" O.C.)

- STAPLES EVERY 5'
- CONTROL ZONE KIT ICZ-101-40 · PLDBV FLUSH VALVE LOCATED IN 6" BOX
- · ALL DRIP LINE UNDER PAVING TO BE SOLID PVC; NO EMITTER TUBING UNDER PAVEMENT







VICINITY MAP

SPRAY ZONE A11

AVAILABLE PRESSURE 52 PSI (ESTIMATED) 25.9 GALLONS PER MINUTE

- . 1" METER 4.0 PSI
- · 2' DCVA 5.5 PSI · MAIN LINE LOSS 2.9 PSI
- · ELECTRIC CONTROL VALVE 0.6 PSI
- · IN-LINE BALL VALVE 0.5 PSI · ZONE LOSS - 3.3 PSI
- · ELEVATION CHANGE 0.0 PSI
- FITTING ESTIMATE 1.7 PSI OPERATING PRESSURE - 33.4 PSI

HYDRAULIC CALCULATIONS DRIP ZONE D4

AVAILABLE PRESSURE 52 PSI (ESTIMATED) 7.8 GALLONS PER MINUTE

- 1" METER 0.7 PSI
- . 2" DCVA 5.1 PSI
- · MAIN LINE LOSS 0.3 PSI
- . IN-LINE BALL VALVE 0.5 PSI · ELEVATION CHANGE - 0.0 PSI
- · FITTING ESTIMATE 0.7 PSI OPERATING PRESSURE AT VALVE-44.7 PSI





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SHEET

IRRIGATION PLAN

RANCH TRAIL CORNERS

LOT 5R - RAINBOW ACRES ADDITION

N.E.C. HORIZON ROAD (F.M. 3097) AND RANCH TRAIL DR.

CITY OF ROCKWALL, TEXAS CHECKED SCALE

DESIGN

DATE FILE H: 1°= 40° 05/28/09 9005 I-1