

RESIDENTIAL MANIFOLD SETUP

CRITICAL ANALYSIS
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P.O.C. NUMBER: 01
 Water Source Information: 1" Meter

FLOW AVAILABLE
 Water Meter Size: 1"
 Flow Available: 37.50 gpm

PRESSURE AVAILABLE
 Static Pressure at POC: 70.00 psi
 Elevation Change: 0.00 ft
 Service Line Size: 2"
 Length of Service Line: 0.00 ft
 Pressure Available: 70.00 psi

DESIGN ANALYSIS
 Maximum Station Flow: 12.22 gpm
 Flow Available at POC: 37.50 gpm
 Residual Flow Available: 25.28 gpm

Pressure Req. at Critical Station: 38.61 psi
 Loss for Fittings: 0.29 psi
 Loss for Main Line: 2.90 psi
 Loss for Backflow: 6.85 psi
 Loss for POC to Valve Elevation: 0.00 psi
 Loss for Master Valve: 3.00 psi
 Loss for Water Meter: 0.83 psi
 Critical Station Pressure at POC: 52.48 psi
 Pressure Available: 70.00 psi
 Residual Pressure Available: 17.52 psi

IRRIGATION SCHEDULE

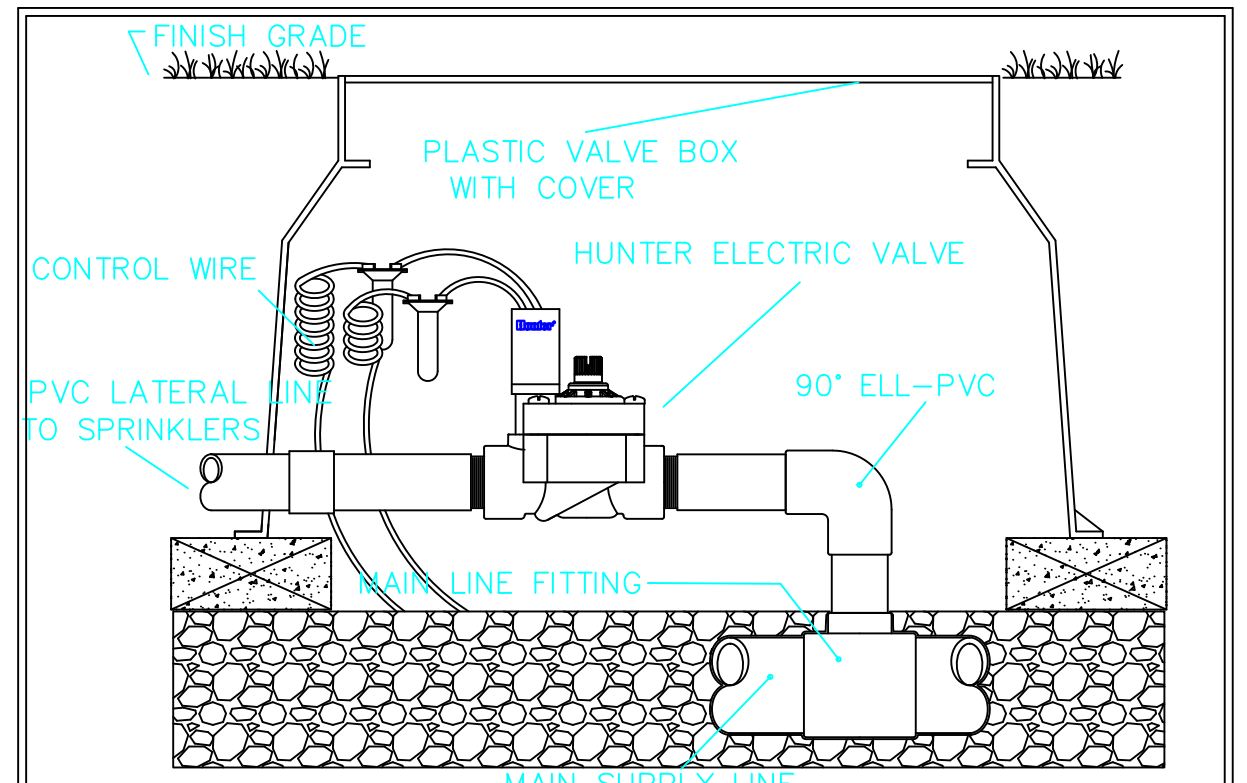
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
⊙	Hunter PROS-04 5' strip spray Turf Spray, 4" pop-up	4	30
⊙	Hunter PROS-04 5' radius Turf Spray, 4" pop-up	12	30
⊙	Hunter PROS-04 8' radius Turf Spray, 4" pop-up	24	30
⊙	Hunter PROS-04 12' radius Turf Spray, 4" pop-up	116	30
⊙	Hunter PROS-04 ADJ Turf Spray, 4" pop-up	4	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
⊙	Hunter I-20-04 Turf Rotor, 4.0' Pop-Up, Adjustable and Full Circle, Plastic Riser, Drain Check Valve, Standard Nozzle.	46	25	2.20	35'
⊙	Hunter I-20-04 Turf Rotor, 4.0' Pop-Up, Adjustable and Full Circle, Plastic Riser, Drain Check Valve, Standard Nozzle.	54	25	4.30	30'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
⊙	Hunter ICV Electric remote control valve, plastic globe.	21
⊙	Hunter ICV 1-1/2" Electric Master Control Valve, 220 psi rated plastic globe valve.	1
⊙	Hunter IC-2400-PL Modular controller, 24 stations, domestic outdoor plastic model. One IC-600-PL base unit with three ICM-600 modules needed, 1 1/4", 13.5"W, 6.5"D (27.9cm H, 34.3cm W, 16.5cm D).	1
⊙	Hunter WRFC Rain/Freeze Sensor, install within 1000 ft of controller, in line of sight, 22-28 VAC/VDC 100-mA power from timer transformer. Mount as noted.	1

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
—	Irrigation Lateral Line: PVC Schedule 40 PVC Schedule 40 irrigation pipe.	5,648 L.F.
—	Irrigation Mainline: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe.	673.4 L.F.

Valve Callout:
 # = Valve Number
 # = Valve Flow
 # = Valve Size



* HUNTER PROS-04
 * NETAFIM DRIP
 * 1" MAINLINE
 * SYSTEM DESIGNED FOR MAX 15 GPM WITH 35 PSI AT HEAD

SMITH RESIDENCE

JOHN SMITH
 LUBBOCK, TX
 SCALE: 1" = 10'

