

CRITICAL ANALYSIS

Generated: 25

P.O.C. NUMBER: 01

Water Source Information:

FLOW AVAILABLE

Water Meter Size: 50

Flow Available: 40

PRESSURE AVAILABLE

Static Pressure at POC: 85

Elevation Change: 1.4

Service Line Size: 80

Length of Service Line: 5.5

Pressure Available: 82

DESIGN ANALYSIS

Maximum Station Flow: 4.4

Flow Available at POC: 4.4

Residual Flow Available: 3.4

Critical Station:

Design Pressure: 2.0

Friction Loss: 0.2

Fittings Loss: 0.1

Elevation Loss: 0.1

Loss through Valve: 0.2

Pressure Req. at Critical Station: 2.7

Loss for Fittings: 1.4

Loss for Main Line: 1.4

Loss for POC to Valve Elevation: 0.1

Loss for Backflow: 0.1

Loss for Water Meter: 0.1

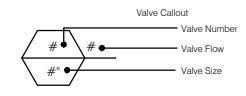
Critical Station Pressure at POC: 86

Pressure Available: 86

Residual Pressure Available: 77

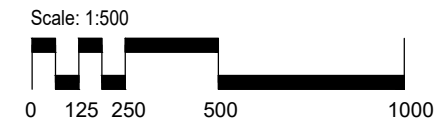
VALVE IDENTIFICATION GUIDE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G 50mm 25 mm, 40 mm, 50 mm, and 80 mm Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	16
	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
	Water Meter 50mm	1
	Irrigation Lateral Line: PVC Class 200 SDR 21 50	1,783 m
	Irrigation Lateral Line: PVC Class 200 SDR 21 80	565.5 m
	Irrigation Lateral Line: PVC Class 200 SDR 21 100	2,714 m
	Irrigation Mainline: PVC Schedule 40 80	61.3 m
	Irrigation Mainline: PVC Schedule 40 100	383.6 m

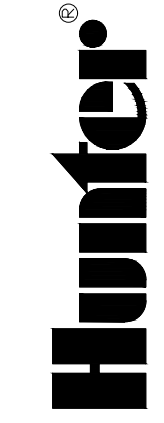


IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	kPa	l/min
	Hunter I-50-06-SS Turf Rotor, 15 cm Pop-Up. Adjustable to Full Circle. Drain Check Valve, Stainless Steel Riser, 25 mm Female NPT Inlet Threads, Standard Nozzle.	24	551.6	104.9
	Hunter I-50-06-SS-ON Turf Rotor, 15 cm Pop-Up. Adjustable to Full Circle. Drain Check Valve, Stainless Steel Riser, 25 mm Female NPT Inlet Threads, Dual Opposing Nozzle.	24	551.6	117.0



TECHNICAL ASSISTANCE
1-800-319-4796
WWW.HUNTERINDUSTRIES.COM



MULTI-PURPOSE FIELD (METRIC)

I-50 ROTOR
NON-LOOPED MAIN LINE LAYOUT

HUNTER INDUSTRIES
1940 DIAMOND STREET
SAN MARCOS, CALIFORNIA 92078

Hunter Industries offers this plan as a general guide for estimating purposes and offers no indemnity, expressed or implied, for projects installed from this plan. Consult a qualified irrigation designer to account for system and site variables.