Ivins City Staff Report
City Council Meeting 08/06/15

Agenda Item: Approval of expenditure of $6,928 for Rain Bird ESPLXD outdoor irrigation controller system and parts needed.

Submitted by: Benny Sorensen

Recommended City Council Action: Approve expenditure of $6,928 for Rain Bird ESPLXD outdoor irrigation controller system and parts needed to upgrade UNITY Park irrigation system.

BACKGROUND: The irrigation control system at UNITY Park has been experiencing major problems over the past two years, we have been babysitting it and working with the manufacturer to make it work, but we have not been able to fix it. We need a system that will work all of the time, so we have been investigating control systems that will work with most of the wiring and valves that we currently have in place so that we get the benefits of the new control system without having to dig everything up and replace all parts. We feel that this is the best system for our needs.

FINDINGS AND ANALYSIS:

- The old system was failing frequently and was requiring someone to work on it several hours each week.
- The new system will work with our current valves and wiring.
- The new system will help us save manpower and water because we will not have to spend time fixing it and we will be able to water at night.
- Should we need assistance with the new controller, Sprinkler Supply (the low bid price), has a local office with certified technicians available to help. The vendor for the old system was located in Idaho.
- The new system has better remote control abilities than the old system.

SUPPORT MATERIALS:

- Parts list that each vendor provided a bid for.
- Brochure with the information and specifications for the controller.
- Quotes from three vendors for the Controller and necessary parts.

FINANCIAL IMPACT:
This expenditure was budgeted in FYE 2015/16 budget – line item number(s) 10-75-740, Capital Outlay - Equipment.

Respectfully Submitted: Benny Sorensen

Content Review: Dale Coulam, City Manager

IVINS CITY

UNITY PARK IRRIGATION SPEC

1. ESPLXD OUTDOOR CONTROLLER 120V W/50 STATIONS
2. ESPLXD 75 STATION EXPANSION MODULE
3. IQNCC - RS-232 NETWORK COMM CARTRIDGE
4. WR2RFC - WIRELESS RAIN/FREEZE SENSOR SYSTEM
5. 5/8" X 8' GROUNDING ROD
6. 5/8" GROUNDING CLAMP
7. AG2401 LIGHTNING ARRESTOR
8. FD102TURF- SINGLE STATION FIELD DECODER ***1 count***
9. FD202TURF -2 STATION FIELD DECODER ***20 count***
10. FD401TURF- 4 STATION FIELD DECODER ***3 count***
11. SD210TURF -SENSOR DECODER
12. LSP1TURF - LINE SURGE PROTECTION ***10 count***
13. DBY ELECTRICAL CONNECTOR ***104 count***
14. IQADVCEDCD - Rain Bird IQ 5 Satellite Software Package w/ advanced feature package.

ST. GEORGE
181 WEST 1600 SOUTH
ST. GEORGE, UTAH 84770
Phone: (435)652-8351

ssc@sprinklersupplyco.com

QUOTE
REPRINT

Number	141879
Date	07/07/2015
Page	1

Ship To:	Bill To:
SAME	21420
IVINS CITY 55 NORTH MAIN STREET IVINS, UT 84738	IVINS CITY 55 NORTH MAIN STREET IVINS, UT 84738

Reference #	Expires	Slsp	Terms	Wh	Freight	Ship Via
UNITY PARK	08/05/15	MBO	NET 10TH	05	PRE/ADD	COUNTER PICK UP

Quoted By: MBO Quoted To: DALAN 414-3855

Item	Description	Ordered	UM	Price	UM	Extension
RA-ESPLXD	ESPLXD OUTDOOR CONTROLLER, 120V W/50 STATIONS	1	EA	603.000	EA	603.00
RA-ESPLXDSM75	ESPLXD 75 STATION EXPANSION MODULE	1	EA	139.500	EA	139.50
IQNCCRS	RS-232 NETWORK COMM CARTRIDGE	1	EA	451.540	EA	451.54
RA-WR2RFC	WIRELESS RAIN/FREEZE SENSOR SYSTEM	1	EA	47.250	EA	47.25
WI-5/8GR	5/8" X 8' GROUNDING ROD	1	EA	25.650	EA	25.65
WI-5/8C	5/8" GROUNDING CLAMP	1	EA	4.050	EA	4.05
WI-AG2401	AG2401 LIGHTNING ARRESTOR	1	EA	90.450	EA	90.45
R-FD102TURF	SINGLE STATION FIELD DECODER 1 OR 2 SOLENOIDS	1	EA	87.462	EA	87.46
R-FD202TURF	2 STATION FIELD DECODER	20	EA	136.365	EA	2727.30
R-FD401TURF	4 STATION FIELD DECODER	3	EA	174.924	EA	524.77
R-SD210TURF	SENSOR DECODER FOR INTERFACING BETWEEN SIGNAL, ANALOG OR DIGI	1	EA	298.593	EA	298.59
R-LSP1TURF	LINE SURGE PROTECTION	10	EA	50.784	EA	507.84
3M-DBR/Y	ELECTRICAL CONNECTOR	104	EA	1.161	EA	120.74
IQADVCEDCD	5 SATELLITE SOFTWARE PACKAGE WITH ADVANCED FEATURE	1	EA	1299.553	EA	1299.55

QUOTE

Merchandise	Misc	Tax	Freight	Total
6927.69	.00	.00		6927.69

THANKS FOR THE OPPORTUNITY TO QUOTE YOU!

Quotation

JOHN DEERE LANDSCAPES

St. George UT #79
177 N 3050 E
Saint George, UT 84790-9076
W: (435)628-5315

Bill To:

Cash Wholesale - St George (#52775)
1358 SOUTH
400 EAST
Saint George, UT 84770
W: (435)628-5318

Ship To:

Cash Wholesale - St George (#52775)
1358 SOUTH
400 EAST
Saint George, UT 84770
W: (435)628-5318

Created	Quote#	Due Date	Expected Award Date	Expiration Date
07/06/2015	2394298	08/06/2015	08/06/2015	08/06/2015

Printed	Job Name	Job Description	Job Start Date
07/07/2015 10:22:50	unity park irrigation spec		08/06/2015

Line #	Item #	Item Desc	Qty	Unit Price	Extended Price
1	ESPLXD	Esp-Lxd Controller (Two Wire)	1	637.261	637.26
2	ESPLXDSM75	Sm75 Expansion Module	1	150.855	150.86
3	IQ4600	Rs-232 Network Comm. Cartridge	1	498.794	498.79
4	WR2RFC	Wireless Rain/Freeze Combo Rainbird	1	51.097	51.10
5	182005P	5/8 Ground Rod Clamp	1	2.442	2.44
6	182000P	5/8 X 8 Ft Grounding Rod Cu	1	22.093	22.09
7	AG2401C3	Intermatic Arresterguard Surge Protector 2 Pole 1 Phase 3 Wire	1	59.059	59.06
8	FD102TURF	Field Decoder	1	90.513	90.51
9	FD202TURF	Field Decoder 2 Valves Or 2 Pair Of Valves	20	141.122	2,822.44
10	FD401TURF	Four Valve Decoder	3	181.026	543.08
11	SD210TURF	Sensor Decoder-Annalog/Digital Sensors	1	309.008	309.01
12	LSP1TURF	Line Surge Protection Rb Mdc	10	52.556	525.56
13	270672	3M Dbr/Y-6 Bulk, 600V Direct Bury Splice Kit	52	1.000	52.00
14	IQ2006	5-Satellite Software Pkg W/All Adv Feature Pkg	1	1,435.552	1,435.55

Total Price: $ 7,199.75

Quoted price is for material only. Applicable sales tax will be charged when invoiced. All product and pricing information is based on the latest information available and is subject to change without notice or obligation.

MOUNTAINLAND
SUPPLY COMPANY

http://www.mountainlandsupply.com

Quotation

MLSG MOUNTAINLAND SUPPLY
525 N. 3050 E. #1
ST GEORGE, UT 84790
435-627-9510
Fax 435-627-9501

EXPIRATION DATE	QUOTE NUMBER
07/15/2015	S101478002

REMIT TO:	PAGE NO.
MOUNTAINLAND SUPPLY COMPANY PO BOX 10 OREM, UT 84059-0010	1 of 2

QUOTE TO:

IVINS CITY
55 NORTH MAIN STREET
IVINS, UT 84738

SHIP TO:

AG IRRIGATION
IVINS, UT 84738

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER	SALESPERSON
9516			BRIAN MCCOWAN

WRITER	SHIP VIA	TERMS	SHIP DATE	FREIGHT ALLOWED
BEVIN LANG			07/22/2015	No

ORDER QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
1ea	RB ESP-LXD 50 STATION TWO WIRE DECODER BASED CONTROLLER F43100	619.080/EA	619.08
1ea	RB ESPLXDSM75 ESP-LXD 75 STATION EXPANSION MODULE F43150	143.220/ea	143.22
1ea	RB IQ4603 IQNCCEN IQ NCC ETHERNET NETWORK CARTRIDGE	696.945/ea	696.95
1ea	RB WR2-RFC WIRELESS RAIN FREEZE SENSOR A553100	58.800/ea	58.80
1ea	58X8GR T-B 6258 5/8X8 GROUND ROD	18.904/ea	18.90
1ea	58GRC T-B G5 5/8 GROUND ROD CLAMP	3.142/ea	3.14
1ea	AG24013 SURGE ARRESTOR	81.250/ea	81.25
1ea	RB FD-102TURF FIELD DECODER ONE VALVE - USED FOR MASTER VALVE / PUMP RELAY M13004	83.500/ea	83.50
20ea	RB FD-202TURF FIELD DECODER TWO VALVES M13005	129.625/ea	2592.50
3ea	RB FD-401TURF FIELD DECODER FOUR VALVES M13006	166.534/ea	499.60
1ea	RB SD-210 TURF FLOW SENSOR DECODER M13009	283.705/ea	283.70
10ea	RB LSP-1TURF DECODER LINE SURGE PROTECTION M13008	49.896/ea	498.96
104ea	3M DBR/Y-6 WATERPROOF CONNECT/BULK	1.100/ea	114.40

** Continued on Next Page *

Bid Total	

MOUNTAINLAND
SUPPLY COMPANY

http://www.mountainlandsupply.com

Quotation

MLSG MOUNTAINLAND SUPPLY
525 N. 3050 E. #1
ST GEORGE, UT 84790
435-627-9510
Fax 435-627-9501

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07/15/2015	S101478002

REMIT TO:	PAGE NO.
MOUNTAINLAND SUPPLY COMPANY PO BOX 10 OREM, UT 84059-0010	2 of 2

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9516			BRIAN MCCOWAN

WRITER	SHIP VIA	TERMS	SHIP DATE	FREIGHT ALLOWED
BEVIN LANG			07/22/2015	No

ORDER QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
1ea	RB IQ2006 IQADVCEDCD IQ V2.0 5 SATELLITE SOFTWARE PACKAGE - INCLUDES ALL FEATURE PACKS **ADVANCED COMMUNICATION** **ADVANCED FLOW SENSING** **ADVANCED PROGRAMMING** **ADVANCED ET DATA** **IQ GLOBAL WEATHER**	1355.024/ea	1355.02
		Bid Total	7049.02

Bid Total does not include tax or freight. All prices herein supercede all prior quotes and are subject to change without prior notice.
No guarantee is made as to the accuracy of the quantities listed.
*** NOTE- All Special Order Material is Non-Returnable ***
****

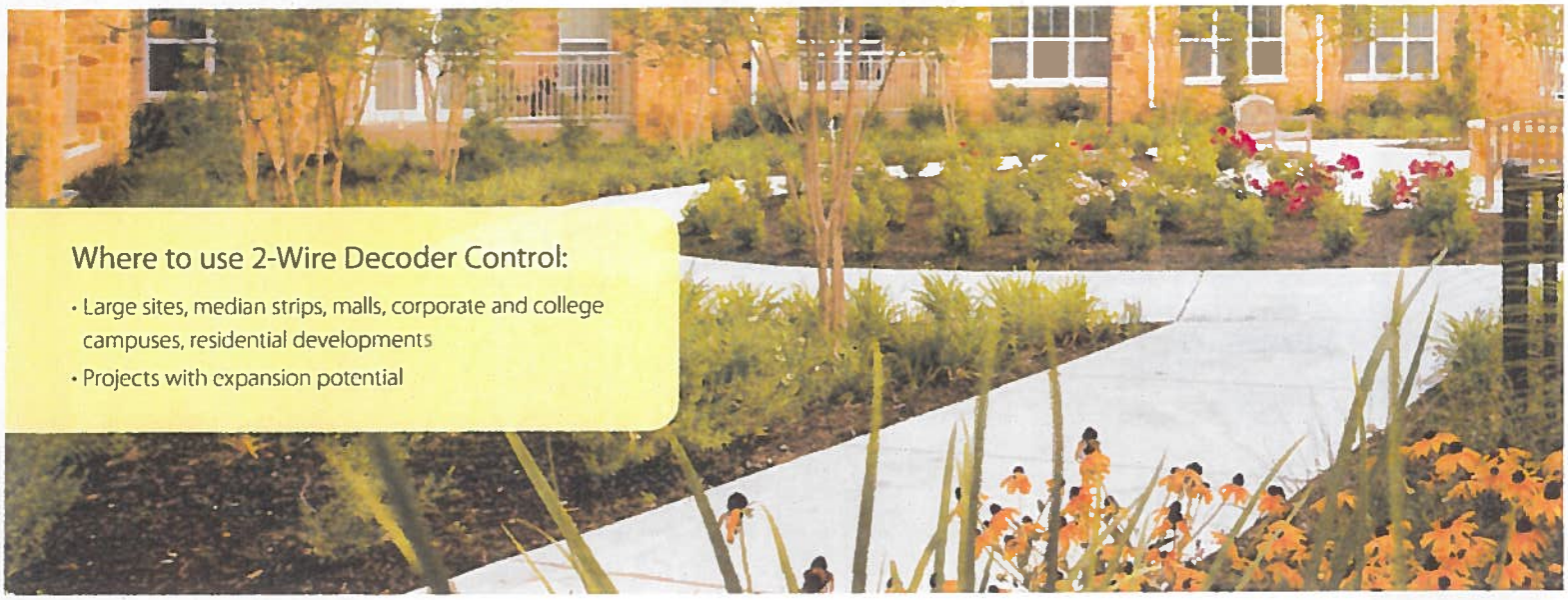
As of July 1, 2013 we will no longer accept returns of brass faucets and fittings containing lead.
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ASK US ABOUT THE JAN. 2014 "NO LEAD LAW"



The ESP-LXD Decoder Controller

Save water, save wire.



Where to use 2-Wire Decoder Control:

- Large sites, median strips, malls, corporate and college campuses, residential developments
- Projects with expansion potential

The new Rain Bird® ESP-LXD builds on The Intelligent Use of Water™ legacy, combining the efficiency of two-wire control with trusted Extra Simple Programming.



200-station capacity.

The ESP-LXD offers the ability to expand from 50 stations to up to 200 stations. So you can handle sites large or small, while stocking fewer controllers and components.

Built-in flow capability.

Flo-Manager® ensures you don't overtax your water supply, while Flo-Watch™ quickly identifies and isolates high or low flow situations, such as mainline breaks.

Backwards compatibility.

Already have a Rain Bird® MDC Two-Wire Decoder? You won't need to dig up your field decoders. Upgrading to the ESP-LXD is as simple as changing out your MDC Controller.





ESP-LXD Optional Accessories

ESP-LXD-SM75 Station Module

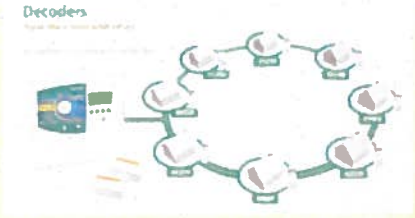
Expand the ESP-LXD Decoder Controller station count from 50 to up to 200 stations in 75-station increments.



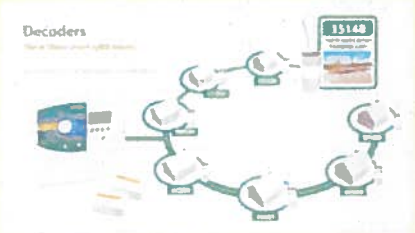
ESP-LXD-PBC Programming Backup Cartridge

Backup and restore programming and configuration for up to 8 ESP-LXD Controllers. Add the optional Bar Code Scanner Pen for decoder address and station entry.

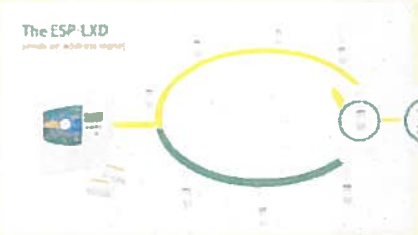
How Two-Wire Control Works



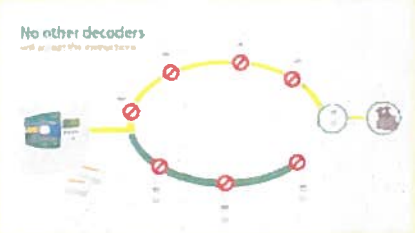
Your ESP-LXD controller is linked to decoders in the field by a two-wire path. This path carries voltage and information.



To allow watering, the ESP-LXD sends out a unique signal to one of the decoders on the two-wire path.



The signal instructs that decoder to open the valve.



Because the signal only applies to the decoder and valve at that specific address, no other decoder accepts the instructions.







What I like best about the ESP-LXD controller

is the fact it's very user-friendly. . .a very simple interface with the dial and very minimal button usage. It gives you every bit of information you want in just a few turns.

—Mark Lung, Senior Project Manager, Weigelt Enterprises







"Rain Bird has designed the user interface of their ESP-LXME controller to be logical and it's easy to find key features such as flow management parameters and zone flow rates and it is easy to write a program and monitor flow.

—Chris Le Conte, President
Smart Watering Systems, Inc.