

## REQUEST FOR BIDS

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# SVGMD IRRIGATION EFFICIENCY DEMONSTRATION PROGRAM - LEPA CONVERSION PACKAGE FOR ROBERTI RANCH PIVOT #13

RELEASED JULY 22, 2022

PREPARED FOR:

**SIERRA VALLEY GROUNDWATER MANAGEMENT DISTRICT**

P.O. Box 88, Chilcoot, CA 96105



PREPARED BY:

**MCGINLEY AND ASSOCIATES**

5410 Longley Ln  
Reno, Nevada 89511

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## NOTICE INVITING BIDS

Notice is hereby given that bids will be received by the Sierra Valley Groundwater Management District, P.O. Box 88, Chilcoot, CA 96105.

For the:

### Purchase of Irrigation Equipment to Convert a Zimmatic 307 Pivot (Roberti Ranch Pivot #13) to a LEPA Irrigation System

Bids for irrigation system conversion equipment are being accepted by the Sierra Valley Groundwater Management District (SVGMD) for conversion of one Zimmatic 307 pivot to a LEPA irrigation system. All bids must be received, and time recorded prior to 4:00 P.M., PST on Friday **August 12th, 2022**. Bids shall be accepted by mail or email to the following address:

SVGMD  
Attention: Jenny Grant  
P.O. Box 88  
Chilcoot, CA 96105  
Email: [sierravalleygmd@sbcglobal.net](mailto:sierravalleygmd@sbcglobal.net)

Bids will only be accepted from vendors who have received a set of the technical specifications and unit bid schedule. Bidders shall complete the Bid Schedule provide in this bid package as part of the submittal. Submits may include detailed cost breakdown and equipment itemizations, as deemed appropriate by the submitting Vendor. Electronic bids will be accepted via email (address above), provided they are completed on copies of the prescribed forms in this bid document, and original copies are delivered to SVGMD upon request.

**Questions** regarding the project shall be received by SVGDM in writing via email prior to August 5th, 2022 at 4:00 P.M. PST, addressed to:

Attention: Jenny Grant  
Email: [sierravalleygmd@sbcglobal.net](mailto:sierravalleygmd@sbcglobal.net)

SVGMD reserves the right to reject any and all bids, to waive any informality in a bid and to make awards in the interest of the SVGMD.

Bids will be publicly opened at 6:00 PM in the SVGMD Board meeting on August 15<sup>th</sup>, 2022. The results of bidding will be reported by the SVGMD within 30 days of the bid opening, at which time the SVGMD may award the Contract to the lowest, responsive, and responsible bidder as so reported; however, said SVGMD reserves the right to reject any or all bids and to waive irregularities or informalities in any bid or in the bidding for any reason whatsoever.

No bidder shall withdraw his or her bid for a period of thirty (30) Calendar Days after the date of the opening thereof.

**Bid Form / Bid Schedule  
for**

**Purchase of Irrigation Equipment to convert Roberti Ranch Zimmatic 307 Pivot  
from MESA to a LEPA Irrigation System**

**To: Sierra Valley Groundwater Management District  
P.O. Box 88  
Chilcoot, CA 96105**

**Project Title: SVGMD IRRIGATION EFFICIENCY DEMONSTRATION PROGRAM –  
ROBERTI RANCH PIVOT #13 LEPA CONVERSION EQUIPMENT**

Bidder: Agri-Lines Irrigation Inc.

Bidder's Address: 4975 W Winnemucca Blvd, Wmca, NV 89445

Telephone No.: (775) 625-1945

Email Address: megan@agri-lines.com

**Unit Bid Schedule**

Item No.	Item Description	Unit	Quantity	Unit Price	Total
1	LEPA EQUIPMENT, INCLUDING CONNECTIONS, PIPING, DROPS, PRESSURE REGULATORS AND SPRINKLER HEADS FOR A COMPLETE CONVERSION OF PIVOT #13 TO A LEPA SYSTEM*	LS	1		
2	SHIPPING AND SALES TAX (as applicable) ON ALL ITEMS	LS	1		
				<b>Total:</b>	

**\*Attach an itemized breakdown of equipment and supplies being provided under the quote.**

GRAND BID TOTAL: \_\_\_\_\_ Dollars

and \_\_\_\_\_ Cents (in words).

**Optional (only if authorized by SVGMD, not part of base bid for equipment)**

Item No.	Item Description	Unit	Quantity	Unit Price	Total
1	INSTALLATION OF LEPA EQUIPMENT, INCLUDING REMOVAL OF EXISTING SPRINKLER SYSTEM (MESA), AND INSTALLATION OF LEPA SPRINKLER SYSTEM, INCLUDING ALL TRAVEL AND INSTALLATION EXPENSES.	LS	1		
Total:					

Please note any clarifications to bid provided:

There are 3 documents to describe in detail the materials and labor attached at the end of this document.

Bid Prepared By:

Megan Thomason  
Name

Design & Sales  
Title

8-2-22  
Date

**Technical Specifications**  
**for**  
**Purchase of Irrigation Equipment to Convert a Zimmatic 307 Pivot (Roberti Ranch Pivot #13) from MESA to a LEPA Irrigation System**

**1.0 General**

The Vendor shall provide all equipment, supplies and materials required to convert one existing Zimmatic 307 center pivot irrigation system, currently equipped with ~9 ft spaced mid-elevation spray heads (MESA), to a low energy precision application (LEPA) irrigation system with ~30" sprinkler head spacing. Details of the existing pivot, and required LEPA conversion parts and materials are contained in the attached LEPA conversion design from Senninger (SEN-61634-22). Reference is made to **Attachment A**.

Equal alternatives to the Senninger sprinkler products in the design package shall be considered by SVGMD, provided the Vendor can provide details showing equal equipment performance to the Senninger LEPA equipment as specified in **Attachment A**. Only close-spaced (~30") LEPA products will be considered by SVGMD as an equal alternative.

**2.0 LEPA Equipment Delivery**

All equipment shall be delivered to the following installation site address:

**Roberti Ranch**  
**7411 Dyson Lane**  
**Vinton, CA 96135**  
**Attn: Mr. Jim Roberti**  
**(530) 429-0999**

The Vendor bid shall include all shipping costs.

**3.0 Receipt of Equipment**

All equipment shall be delivered to the installation site not later than **September 15, 2022**.

**4.0 Optional Item - LEPA Equipment Installation**

SVGMD may elect to have the Vendor install LEPA equipment. In this case, all existing MESA irrigation equipment shall be removed from the pivot and placed next to the irrigated field at a location approved by the property owner. The Vendor shall take care to minimize unnecessary damage to existing equipment. The Vendor shall then install all new LEPA equipment for full functionality of the pivot.

If authorized to provide installation services, the Vendor shall schedule the installation on acceptable dates to the Roberti Ranch, as agreed upon between the Vendor and property owner. The Vendor shall complete the installation in a diligent manner, minimizing interruption of ranching operations to the degree possible.

If authorized to provide installation services, the anticipated date range for installation will be between September 1<sup>st</sup> to October 15<sup>th</sup>, 2022. *Installation shall be completed not later than October 15, 2022.*

**Attachment A**

**Senninger Irrigation, Inc.**

**Zimmatic 307 LEPA System Conversion Design**





Senninger Irrigation  
Clermont, FL

Dealer : Senninger Irrigation  
Clermont, FL

Customer : Sierra Valley  
Zimmatic 307

Printout No: Sen-61634-22



\*\* Specify Senninger UP3 Nozzles when ordering \*\*



# Senninger Irrigation, Inc

13505 Granville Ave  
Clermont, FL 34711

407-877-5655-ph  
407-905-8249-fax

Date: 04/12/2022

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## WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATE CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, AND AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE, SENNINGER IRRIGATION INC. MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

PRODUCTS MANUFACTURED BY SENNINGER IRRIGATION INC. THAT ARE SPECIFIED ON THIS SYSTEM ARE COVERED UNDER THE PRINTED "LIMITED WARRANTY" OF EACH INDIVIDUAL ITEM.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. SENNINGER IRRIGATION THEREFORE DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

ALL FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING...

1. INFORMATION PROVIDED TO SENNINGER IRRIGATION, INC. CONCERNING PIPE LENGTH, DIAMETER, SURFACE FINISH AND OUTLET SPACINGS, PLUS WATER FLOW AND PRESSURE, PLUS ALL OTHER APPLICABLE DATA IS CORRECT.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY & NO EVAPORATION)
3. ALL BOW STRING AND WARREN TRUSS TYPE SPANS (EXCEPT THE LAST) ARE CONSIDERED TO END AT THE CENTER OF THE FLEXIBLE COUPLING. THE LAST SPAN IS CONSIDERED TO END AFTER THE "TOWER TOP" OR "END BOOM TRANSITION PIECE" FLANGE. CABLE SUPPORTED SPANS ARE CONSIDERED TO END AT THE CENTER OF THE TOWER.
4. PIVOT PRESSURE IS MEASURED UP ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
5. PIVOT PRESSURE HAS BEEN DETERMINED IN CONSIDERATION OF A MAXIMUM FIELD ELEVATION RISE AND FALL FROM THE PIVOT POINT AS SHOWN ON PAGE ONE, WITH THESE ELEVATIONS OCCURRING AT THE END OF THE SYSTEM.
- 6- SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS, WITH FLOW VS. FRICTION LOSS THROUGH EACH REGULATOR CONSIDERED. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO THE MAIN PIPE PRESSURE TO DETERMINE SPRAY NOZZLE INLET PRESSURE.

# Senninger Irrigation, Inc

13505 Granville Ave

Clermont, FL 34711

407-877-5655-ph  
407-905-8249-fax

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## CAUTIONS

This package was plugged with the recommended minimum ground clearance and above the crop canopy.

# Senninger Irrigation, Inc

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## Dealer:

Senninger Irrigation  
Clermont, FL

## Customer:

Sierra Valley  
Zimmatic 307

## Comments:

## Precipitation

Delivered Flow: 850.17 gpm  
Pivot Pressure: 25.00 psi  
Length: 1234.08 ft  
Area: 114.80 acre  
Distance to last tower: 1194.08 ft  
Speed of last tower: 6.29 ft  
Precip. / Acre: (360) 7.40 gpm  
Time for coverage: 19.88Hrs  
Tire Size 11.2 x 24  
Motor loaded speed (RPM) 1725  
Center gear box reduction (RATIO) 58:1  
Wheel gear box reduction (RATIO) 50:1  
End Gun Throw: 36.8 ft

## Circle Degree 360

Average Depth	Timer	Rotation
0.33 inch	100.00%	19.9hrs
---	---	---
---	---	---
0.40 inch	81.29%	24.5hrs
0.50 inch	65.03%	30.6hrs
0.60 inch	54.19%	36.7hrs
0.70 inch	46.45%	42.8hrs
0.80 inch	40.64%	48.9hrs
0.90 inch	36.13%	55.0hrs
1.00 inch	32.52%	61.1hrs
1.25 inch	26.01%	76.4hrs
1.50 inch	21.68%	91.7hrs
2.00 inch	16.26%	122.3hrs
2.50 inch	13.01%	152.8hrs

Caution\*\*This chart is an estimate of the performance for your irrigation system. Tire inflation, tire slippage, soil conditions, flow fluctuations and other conditions can cause application and time deviations. The info above should be used as a guide and used with caution.

12 hrs : Exceeds Specifications  
0.39 inch 82.82% 24 hrs

# SENNINGER IRRIGATION

Chart No: Sen-61634-22

Date: 04/12/2022

LOCATION		HYDRAULICS DATA										HARDWARE DESCRIPTION			Goose Neck
		OUTLET LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) & COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#			
<b>Pivot - Gauge</b>															
1-P1g		7.0													
2-P1g		15.3													
3	23.66	23.7	0.21	0.38	24.64	11.42	PSR-2-10	LDN UP3	C24-B	4-LT BLUE	1 G				
4	31.99	32.0	0.28	0.38	24.52	11.42	PSR-2-10	LDN UP3	C24-B	4-LT BLUE	2 G				
5	40.32	40.3	0.36	0.38	24.39	11.42	PSR-2-10	LDN UP3	C24-B	4-LT BLUE	3 G				
6	48.65	48.6	0.43	0.48	24.26	11.42	PSR-2-10	LDN UP3	C24-B	4.5-LBL/*	4 G				
7	56.98	57.0	0.51	0.48	24.14	11.42	PSR-2-10	LDN UP3	C24-B	4.5-LBL/*	5 G				
8	65.31	65.3	0.58	0.59	24.01	11.41	PSR-2-10	LDN UP3	C24-B	5-BEIGE	6 G				
9	73.64	73.6	0.66	0.72	23.89	11.41	PSR-2-10	LDN UP3	C24-B	5.5-BGE/*	7 G				
10	81.97	82.0	0.73	0.72	23.76	11.41	PSR-2-10	LDN UP3	C24-B	5.5-BGE/*	8 G				
11	90.30	90.3	0.80	0.85	23.64	11.41	PSR-2-10	LDN UP3	C24-B	6-GOLD	9 G				
12	98.63	98.6	0.88	0.85	23.51	11.41	PSR-2-10	LDN UP3	C24-B	6-GOLD	10 G				
13	106.96	107.0	0.95	1.00	23.39	11.41	PSR-2-10	LDN UP3	C24-B	6.5-GLD/*	11 G				
14	115.29	115.3	1.03	1.00	23.26	11.41	PSR-2-10	LDN UP3	C24-B	6.5-GLD/*	12 G				
15	123.62	123.6	1.03	1.00	23.14	11.41	PSR-2-10	LDN UP3	C24-B	6.5-GLD/*	13 G				
<b>Tower 1</b>															
16	125.50	128.06													
17	1.48	129.5	0.41	0.38	23.05	7.30	PSR-2-6	LDN UP3	C24-B	4.5-LBL/*	14 G				
18	4.44	132.5	0.42	0.38	23.01	7.30	PSR-2-6	LDN UP3	C24-B	4.5-LBL/*	15 G				
19	7.40	135.5	0.43	0.47	22.96	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	16 G				
20	10.36	138.4	0.44	0.47	22.92	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	17 G				
21	13.32	141.4	0.45	0.47	22.88	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	18 G				
22	16.28	144.3	0.46	0.47	22.83	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	19 G				
23	19.24	147.3	0.47	0.47	22.79	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	20 G				
24	22.20	150.3	0.48	0.47	22.75	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	21 G				
25	25.16	153.2	0.48	0.47	22.70	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	22 G				
26	28.12	156.2	0.49	0.47	22.66	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	23 G				
27	31.08	159.1	0.50	0.47	22.61	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	24 G				
28	34.04	162.1	0.51	0.47	22.57	7.30	PSR-2-6	LDN UP3	C24-B	5-BEIGE	25 G				
29	37.00	165.1	0.52	0.57	22.53	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	26 G				
30	39.96	168.0	0.53	0.57	22.48	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	27 G				
31	42.92	171.0	0.54	0.57	22.44	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	28 G				
32	45.88	173.9	0.55	0.57	22.40	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	29 G				
33	48.84	176.9	0.56	0.57	22.35	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	30 G				
34	51.80	179.9	0.57	0.57	22.31	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	31 G				
35	54.76	182.8	0.58	0.57	22.27	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	32 G				
36	57.72	185.8	0.59	0.57	22.23	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	33 G				
37	60.68	188.7	0.60	0.57	22.18	7.30	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	34 G				
38	63.64	191.7	0.61	0.57	22.14	7.29	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	35 G				
39	66.60	194.7	0.62	0.57	22.10	7.29	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	36 G				
40	69.56	197.6	0.63	0.57	22.05	7.29	PSR-2-6	LDN UP3	C24-B	5.5-BGE/*	37 G				
41	72.52	200.6	0.63	0.68	22.01	7.29	PSR-2-6	LDN UP3	C24-B	6-GOLD	38 G				

# SENNINGER IRRIGATION

Chart No: Sen-61634-22

Date: 04/12/2022

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LOCATION		HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck
		OUTLET LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	
41	2.96	75.48	203.5	0.64	0.68	21.97	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	39 G
42	2.96	78.44	206.5	0.65	0.68	21.93	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	40 G
43	2.96	81.40	209.5	0.66	0.68	21.88	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	41 G
44	2.96	84.36	212.4	0.67	0.68	21.84	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	42 G
45	2.96	87.32	215.4	0.68	0.68	21.80	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	43 G
46	2.96	90.28	218.3	0.69	0.68	21.76	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	44 G
47	2.96	93.24	221.3	0.70	0.68	21.71	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	45 G
48	2.96	96.20	224.3	0.71	0.68	21.67	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	46 G
49	2.96	99.16	227.2	0.72	0.68	21.63	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	47 G
50	2.96	102.12	230.2	0.73	0.68	21.59	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	48 G
51	2.96	105.08	233.1	0.74	0.68	21.55	7.29	PSR-2-6	LDN UP3 C24-B	6-GOLD	49 G
52	2.96	108.04	236.1	0.75	0.80	21.50	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	50 G
53	2.96	111.00	239.1	0.76	0.80	21.46	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	51 G
54	2.96	113.96	242.0	0.77	0.80	21.42	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	52 G
55	2.96	116.92	245.0	0.77	0.80	21.38	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	53 G
56	2.96	119.88	247.9	0.78	0.80	21.34	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	54 G
57	2.96	122.84	250.9	0.79	0.80	21.29	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	55 G
58	2.96	125.80	253.9	0.80	0.80	21.25	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	56 G
59	2.96	128.76	256.8	0.81	0.80	21.21	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	57 G
60	2.96	131.72	259.8	0.82	0.80	21.17	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	58 G
61	2.96	134.68	262.7	0.83	0.80	21.13	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	59 G
62	2.96	137.64	265.7	0.84	0.80	21.09	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	60 G
63	2.96	140.60	268.7	0.85	0.80	21.05	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	61 G
64	2.96	143.56	271.6	0.86	0.80	21.01	7.29	PSR-2-6	LDN UP3 C24-B	6.5-GLD/*	62 G
65	2.96	146.52	274.6	0.87	0.93	20.96	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	63 G
66	2.96	149.48	277.5	0.88	0.93	20.92	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	64 G
67	2.96	152.44	280.5	0.89	0.93	20.88	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	65 G
68	2.96	155.40	283.5	0.90	0.93	20.84	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	66 G
69	2.96	158.36	286.4	0.91	0.93	20.80	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	67 G
70	2.96	161.32	289.4	0.92	0.93	20.76	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	68 G
71	2.96	164.28	292.3	0.92	0.93	20.72	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	69 G
72	2.96	167.24	295.3	0.93	0.93	20.68	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	70 G
73	2.96	170.20	298.3	0.94	0.93	20.64	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	71 G
74	2.96	173.16	301.2	0.95	0.93	20.60	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	72 G
75	2.96	176.12	304.2	0.95	0.93	20.56	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	73 G
<b>Tower 2</b>			305.73								
76	3.03	1.48	307.2	0.98	0.93	20.52	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	74 G
77	2.96	4.44	310.2	0.98	0.93	20.48	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	75 G
78	2.96	7.40	313.1	0.99	0.93	20.44	7.29	PSR-2-6	LDN UP3 C24-B	7-LIME	76 G
79	2.96	10.36	316.1	1.00	1.07	20.40	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*	77 G
80	2.96	13.32	319.0	1.01	1.07	20.36	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*	78 G
81	2.96	16.28	322.0	1.02	1.07	20.32	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*	79 G

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OUTLET COUNT	LOCATION		HYDRAULICS DATA				HARDWARE DESCRIPTION				Goose Neck	
	LAST OUTLET (FT)	DISTANCE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db
82	2.96	19.24	325.0	1.03	1.07	20.28	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		80 G
83	2.96	22.20	327.9	1.04	1.07	20.24	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		81 G
84	2.96	25.16	330.9	1.05	1.07	20.20	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		82 G
85	2.96	28.12	333.8	1.06	1.07	20.16	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		83 G
86	2.96	31.08	336.8	1.07	1.07	20.12	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		84 G
87	2.96	34.04	339.8	1.07	1.07	20.08	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		85 G
88	2.96	37.00	342.7	1.08	1.07	20.04	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		86 G
89	2.96	39.96	345.7	1.09	1.07	20.01	7.29	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		87 G
90	2.96	42.92	348.6	1.10	1.07	19.97	7.28	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		88 G
91	2.96	45.88	351.6	1.11	1.07	19.93	7.28	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		89 G
92	2.96	48.84	354.6	1.12	1.07	19.89	7.28	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		90 G
93	2.96	51.80	357.5	1.13	1.07	19.85	7.28	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		91 G
94	2.96	54.76	360.5	1.14	1.07	19.81	7.28	PSR-2-6	LDN UP3 C24-B	7.5-LIM/*		92 G
95	2.96	57.72	363.4	1.15	1.22	19.78	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		93 G
96	2.96	60.68	366.4	1.16	1.22	19.74	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		94 G
97	2.96	63.64	369.4	1.17	1.22	19.70	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		95 G
98	2.96	66.60	372.3	1.18	1.22	19.66	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		96 G
99	2.96	69.56	375.3	1.19	1.22	19.62	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		97 G
100	2.96	72.52	378.2	1.20	1.22	19.59	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		98 G
101	2.96	75.48	381.2	1.21	1.22	19.55	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		99 G
102	2.96	78.44	384.2	1.22	1.22	19.51	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		100 G
103	2.96	81.40	387.1	1.22	1.22	19.47	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		101 G
104	2.96	84.36	390.1	1.23	1.22	19.44	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		102 G
105	2.96	87.32	393.0	1.24	1.22	19.40	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		103 G
106	2.96	90.28	396.0	1.25	1.22	19.36	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		104 G
107	2.96	93.24	399.0	1.26	1.22	19.33	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		105 G
108	2.96	96.20	401.9	1.27	1.22	19.29	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		106 G
109	2.96	99.16	404.9	1.28	1.22	19.25	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		107 G
110	2.96	102.12	407.8	1.29	1.22	19.22	7.28	PSR-2-6	LDN UP3 C24-B	8-LAVENDER		108 G
111	2.96	105.08	410.8	1.30	1.38	19.18	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		109 G
112	2.96	108.04	413.8	1.31	1.38	19.14	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		110 G
113	2.96	111.00	416.7	1.32	1.38	19.11	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		111 G
114	2.96	113.96	419.7	1.33	1.38	19.07	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		112 G
115	2.96	116.92	422.6	1.34	1.38	19.03	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		113 G
116	2.96	119.88	425.6	1.35	1.38	19.00	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		114 G
117	2.96	122.84	428.6	1.36	1.38	18.96	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		115 G
118	2.96	125.80	431.5	1.37	1.38	18.93	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		116 G
119	2.96	128.76	434.5	1.37	1.38	18.89	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		117 G
120	2.96	131.72	437.4	1.38	1.38	18.86	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		118 G
121	2.96	134.68	440.4	1.39	1.38	18.82	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		119 G
122	2.96	137.64	443.4	1.40	1.38	18.79	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		120 G
123	2.96	140.60	446.3	1.41	1.38	18.75	7.28	PSR-2-6	LDN UP3 C24-B	8.5-LAV/*		121 G



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OUTLET COUNT	LOCATION		HYDRAULICS DATA				HARDWARE DESCRIPTION				Goose Neck G=180°Sg Sg=125°Sg Db=125°Db NOZZ#		
	LAST OUTLET (FT)	DISTANCE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight		NOZZ SIZE (64TH INCH) & COLOR	
124	2.96	143.56	449.3	1.42	1.38	18.72	7.28		PSR-2-6	LDN UP3 C24-B	8.5-LAV/*	122 G	
125	2.96	146.52	452.2	1.43	1.38	18.68	7.28		PSR-2-6	LDN UP3 C24-B	8.5-LAV/*	123 G	
126	2.96	149.48	455.2	1.44	1.38	18.65	7.28		PSR-2-6	LDN UP3 C24-B	8.5-LAV/*	124 G	
127	2.96	152.44	458.2	1.45	1.38	18.61	7.28		PSR-2-6	LDN UP3 C24-B	8.5-LAV/*	125 G	
128	2.96	155.40	461.1	1.46	1.38	18.58	7.28		PSR-2-6	LDN UP3 C24-B	8.5-LAV/*	126 G	
129	2.96	158.36	464.1	1.47	1.55	18.54	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	127 G	
130	2.96	161.32	467.0	1.48	1.55	18.51	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	128 G	
131	2.96	164.28	470.0	1.49	1.55	18.48	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	129 G	
132	2.96	167.24	473.0	1.50	1.55	18.44	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	130 G	
133	2.96	170.20	475.9	1.51	1.55	18.41	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	131 G	
134	2.96	173.16	478.9	1.51	1.55	18.37	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	132 G	
135	2.96	176.12	481.8	1.51	1.55	18.34	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	133 G	
<b>Tower 3</b>			483.40										
136	3.03	1.48	484.9	1.54	1.55	18.31	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	134 G	
137	2.96	4.44	487.8	1.54	1.55	18.27	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	135 G	
138	2.96	7.40	490.8	1.55	1.55	18.24	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	136 G	
139	2.96	10.36	493.8	1.56	1.55	18.21	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	137 G	
140	2.96	13.32	496.7	1.57	1.55	18.17	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	138 G	
141	2.96	16.28	499.7	1.58	1.55	18.14	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	139 G	
142	2.96	19.24	502.6	1.59	1.55	18.11	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	140 G	
143	2.96	22.20	505.6	1.60	1.55	18.08	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	141 G	
144	2.96	25.16	508.6	1.61	1.55	18.04	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	142 G	
145	2.96	28.12	511.5	1.62	1.55	18.01	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	143 G	
146	2.96	31.08	514.5	1.63	1.55	17.98	7.27		PSR-2-6	LDN UP3 C24-B	9-GREY	144 G	
147	2.96	34.04	517.4	1.64	1.72	17.95	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	145 G	
148	2.96	37.00	520.4	1.65	1.72	17.92	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	146 G	
149	2.96	39.96	523.4	1.66	1.72	17.88	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	147 G	
150	2.96	42.92	526.3	1.66	1.72	17.85	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	148 G	
151	2.96	45.88	529.3	1.67	1.72	17.82	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	149 G	
152	2.96	48.84	532.2	1.68	1.72	17.79	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	150 G	
153	2.96	51.80	535.2	1.69	1.72	17.76	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	151 G	
154	2.96	54.76	538.2	1.70	1.72	17.73	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	152 G	
155	2.96	57.72	541.1	1.71	1.72	17.70	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	153 G	
156	2.96	60.68	544.1	1.72	1.72	17.67	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	154 G	
157	2.96	63.64	547.0	1.73	1.72	17.64	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	155 G	
158	2.96	66.60	550.0	1.74	1.72	17.61	7.27		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	156 G	
159	2.96	69.56	553.0	1.75	1.72	17.58	7.26		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	157 G	
160	2.96	72.52	555.9	1.76	1.72	17.55	7.26		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	158 G	
161	2.96	75.48	558.9	1.77	1.72	17.52	7.26		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	159 G	
162	2.96	78.44	561.8	1.78	1.72	17.49	7.26		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	160 G	
163	2.96	81.40	564.8	1.79	1.72	17.46	7.26		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	161 G	
164	2.96	84.36	567.8	1.80	1.72	17.43	7.26		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	162 G	

# SENNINGER IRRIGATION

Date: 04/12/2022

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LOCATION		HYDRAULICS DATA					HARDWARE DESCRIPTION			GOOSE NECK	
		OUTLET FLOW (GPM)	ACTUAL FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) & COLOR		
OUTLET COUNT	DISTANCE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) & COLOR	GOOSE NECK
165	2.96	87.32	1.81	1.72	17.40	7.26		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	163 G
166	2.96	90.28	1.81	1.72	17.37	7.26		PSR-2-6	LDN UP3 C24-B	9.5-GRY/*	164 G
167	2.96	93.24	1.82	1.91	17.34	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	165 G
168	2.96	96.20	1.83	1.91	17.31	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	166 G
169	2.96	99.16	1.84	1.91	17.28	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	167 G
170	2.96	102.12	1.85	1.91	17.25	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	168 G
171	2.96	105.08	1.86	1.91	17.22	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	169 G
172	2.96	108.04	1.87	1.91	17.20	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	170 G
173	2.96	111.00	1.88	1.91	17.17	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	171 G
174	2.96	113.96	1.89	1.91	17.14	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	172 G
175	2.96	116.92	1.90	1.91	17.11	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	173 G
176	2.96	119.88	1.91	1.91	17.08	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	174 G
177	2.96	122.84	1.92	1.91	17.06	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	175 G
178	2.96	125.80	1.93	1.91	17.03	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	176 G
179	2.96	128.76	1.94	1.91	17.00	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	177 G
180	2.96	131.72	1.95	1.91	16.97	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	178 G
181	2.96	134.68	1.96	1.91	16.95	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	179 G
182	2.96	137.64	1.96	1.91	16.92	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	180 G
183	2.96	140.60	1.97	1.91	16.89	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	181 G
184	2.96	143.56	1.98	1.91	16.87	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	182 G
185	2.96	146.52	1.99	1.91	16.84	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	183 G
186	2.96	149.48	2.00	1.91	16.81	7.26		PSR-2-6	LDN UP3 C33-B	10-TURQUOISE	184 G
187	2.96	152.44	2.01	2.11	16.79	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	185 G
188	2.96	155.40	2.02	2.11	16.76	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	186 G
189	2.96	158.36	2.03	2.11	16.74	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	187 G
190	2.96	161.32	2.04	2.11	16.71	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	188 G
191	2.96	164.28	2.05	2.11	16.69	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	189 G
192	2.96	167.24	2.06	2.11	16.66	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	190 G
193	2.96	170.20	2.07	2.11	16.64	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	191 G
194	2.96	173.16	2.08	2.11	16.61	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	192 G
195	2.96	176.12	2.08	2.11	16.59	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	193 G
<b>Tower 4</b>		177.67	661.07								
196	3.03	1.48	2.10	2.11	16.56	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	194 G
197	2.96	4.44	2.11	2.11	16.54	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	195 G
198	2.96	7.40	2.11	2.11	16.51	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	196 G
199	2.96	10.36	2.12	2.11	16.49	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	197 G
200	2.96	13.32	2.13	2.11	16.46	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	198 G
201	2.96	16.28	2.14	2.11	16.44	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	199 G
202	2.96	19.24	2.15	2.11	16.42	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	200 G
203	2.96	22.20	2.16	2.11	16.39	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	201 G
204	2.96	25.16	2.17	2.11	16.37	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	202 G
205	2.96	28.12	2.18	2.11	16.34	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	203 G

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LOCATION			HYDRAULICS DATA				HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) & COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
206	2.96	31.08	2.19	2.11	16.32	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	204 G
207	2.96	34.04	2.20	2.11	16.30	7.25		PSR-2-6	LDN UP3 C33-B	10.5-TUR/*	205 G
208	2.96	37.00	2.21	2.31	16.28	7.25		PSR-2-6	LDN UP3 C33-B	11-YELLOW	206 G
209	2.96	39.96	2.22	2.31	16.25	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	207 G
210	2.96	42.92	2.23	2.31	16.23	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	208 G
211	2.96	45.88	2.24	2.31	16.21	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	209 G
212	2.96	48.84	2.25	2.31	16.19	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	210 G
213	2.96	51.80	2.25	2.31	16.16	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	211 G
214	2.96	54.76	2.26	2.31	16.14	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	212 G
215	2.96	57.72	2.27	2.31	16.12	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	213 G
216	2.96	60.68	2.28	2.31	16.10	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	214 G
217	2.96	63.64	2.29	2.31	16.08	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	215 G
218	2.96	66.60	2.30	2.31	16.06	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	216 G
219	2.96	69.56	2.31	2.31	16.04	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	217 G
220	2.96	72.52	2.32	2.31	16.01	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	218 G
221	2.96	75.48	2.33	2.31	15.99	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	219 G
222	2.96	78.44	2.34	2.31	15.97	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	220 G
223	2.96	81.40	2.35	2.31	15.95	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	221 G
224	2.96	84.36	2.36	2.31	15.93	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	222 G
225	2.96	87.32	2.37	2.31	15.91	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	223 G
226	2.96	90.28	2.38	2.31	15.89	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	224 G
227	2.96	93.24	2.39	2.31	15.87	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	225 G
228	2.96	96.20	2.40	2.31	15.85	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	226 G
229	2.96	99.16	2.40	2.31	15.83	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	227 G
230	2.96	102.12	2.41	2.31	15.81	7.24		PSR-2-6	LDN UP3 C33-B	11-YELLOW	228 G
231	2.96	105.08	2.42	2.53	15.79	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	229 G
232	2.96	108.04	2.43	2.53	15.78	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	230 G
233	2.96	111.00	2.44	2.53	15.76	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	231 G
234	2.96	113.96	2.45	2.53	15.74	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	232 G
235	2.96	116.92	2.46	2.53	15.72	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	233 G
236	2.96	119.88	2.47	2.53	15.70	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	234 G
237	2.96	122.84	2.48	2.53	15.68	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	235 G
238	2.96	125.80	2.49	2.53	15.67	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	236 G
239	2.96	128.76	2.50	2.53	15.65	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	237 G
240	2.96	131.72	2.51	2.53	15.63	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	238 G
241	2.96	134.68	2.52	2.53	15.61	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	239 G
242	2.96	137.64	2.53	2.53	15.59	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	240 G
243	2.96	140.60	2.54	2.53	15.58	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	241 G
244	2.96	143.56	2.55	2.53	15.56	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	242 G
245	2.96	146.52	2.55	2.53	15.54	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	243 G
246	2.96	149.48	2.56	2.53	15.53	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	244 G
247	2.96	152.44	2.57	2.53	15.51	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	245 G

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LOCATION		HYDRAULICS DATA				HARDWARE DESCRIPTION				GOOSE NECK	
OUTLET COUNT	DISTANCE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) & COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
248	2.96	155.40	2.58	2.53	15.49	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	246 G
249	2.96	158.36	2.59	2.53	15.48	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	247 G
250	2.96	161.32	2.60	2.53	15.46	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	248 G
251	2.96	164.28	2.61	2.53	15.45	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	249 G
252	2.96	167.24	2.62	2.53	15.43	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	250 G
253	2.96	170.20	2.63	2.53	15.41	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	251 G
254	2.96	173.16	2.64	2.53	15.40	7.22		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	252 G
255	2.96	176.12	2.64	2.53	15.38	7.23		PSR-2-6	LDN UP3 C33-B	11.5-YEL/*	253 G
<b>Tower 5</b>											
256	3.03	177.67	2.67	2.75	15.37	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	254 G
257	2.96	4.44	2.67	2.75	15.35	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	255 G
258	2.96	7.40	2.68	2.75	15.34	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	256 G
259	2.96	10.36	2.69	2.75	15.32	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	257 G
260	2.96	13.32	2.70	2.75	15.31	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	258 G
261	2.96	16.28	2.70	2.75	15.29	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	259 G
262	2.96	19.24	2.71	2.75	15.28	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	260 G
263	2.96	22.20	2.72	2.75	15.27	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	261 G
264	2.96	25.16	2.73	2.75	15.25	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	262 G
265	2.96	28.12	2.74	2.75	15.24	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	263 G
266	2.96	31.08	2.75	2.75	15.22	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	264 G
267	2.96	34.04	2.76	2.75	15.21	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	265 G
268	2.96	37.00	2.77	2.75	15.20	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	266 G
269	2.96	39.96	2.78	2.75	15.18	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	267 G
270	2.96	42.92	2.79	2.75	15.17	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	268 G
271	2.96	45.88	2.80	2.75	15.16	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	269 G
272	2.96	48.84	2.81	2.75	15.15	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	270 G
273	2.96	51.80	2.82	2.75	15.13	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	271 G
274	2.96	54.76	2.83	2.75	15.12	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	272 G
275	2.96	57.72	2.84	2.75	15.11	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	273 G
276	2.96	60.68	2.85	2.75	15.10	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	274 G
277	2.96	63.64	2.85	2.75	15.08	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	275 G
278	2.96	66.60	2.86	2.75	15.07	7.22		PSR-2-6	LDN UP3 C33-B	12-RED	276 G
279	2.96	69.56	2.87	2.99	15.06	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	277 G
280	2.96	72.52	2.88	2.99	15.05	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	278 G
281	2.96	75.48	2.89	2.99	15.04	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	279 G
282	2.96	78.44	2.90	2.99	15.03	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	280 G
283	2.96	81.40	2.91	2.99	15.02	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	281 G
284	2.96	84.36	2.92	2.99	15.00	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	282 G
285	2.96	87.32	2.93	2.99	14.99	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	283 G
286	2.96	90.28	2.94	2.99	14.98	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	284 G
287	2.96	93.24	2.95	2.99	14.97	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	285 G
288	2.96	96.20	2.96	2.99	14.96	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	286 G

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OUTLET COUNT	LOCATION		HYDRAULICS DATA				HARDWARE DESCRIPTION				GOOSE NECK G=180°Sg Sg=125°Sg Db=125°Db NOZZ#	
	LAST OUTLET (FT)	DISTANCE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight		NOZZ SIZE (64TH INCH) & COLOR
289	2.96	99.16	937.9	2.97	2.99	14.95	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	287 G
290	2.96	102.12	940.9	2.98	2.99	14.94	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	288 G
291	2.96	105.08	943.8	2.99	2.99	14.93	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	289 G
292	2.96	108.04	946.8	2.99	2.99	14.92	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	290 G
293	2.96	111.00	949.7	3.00	2.99	14.91	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	291 G
294	2.96	113.96	952.7	3.01	2.99	14.90	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	292 G
295	2.96	116.92	955.7	3.02	2.99	14.89	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	293 G
296	2.96	119.88	958.6	3.03	2.99	14.88	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	294 G
297	2.96	122.84	961.6	3.04	2.99	14.88	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	295 G
298	2.96	125.80	964.5	3.05	2.98	14.87	7.21		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	296 G
299	2.96	128.76	967.5	3.06	2.98	14.86	7.20		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	297 G
300	2.96	131.72	970.5	3.07	2.98	14.85	7.20		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	298 G
301	2.96	134.68	973.4	3.08	2.98	14.84	7.20		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	299 G
302	2.96	137.64	976.4	3.09	2.98	14.83	7.20		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	300 G
303	2.96	140.60	979.3	3.10	2.98	14.82	7.20		PSR-2-6	LDN UP3 C33-B	12.5-RED/*	301 G
304	2.96	143.56	982.3	3.11	3.23	14.82	7.20		PSR-2-6	LDN UP3 C33-B	13-WHITE	302 G
305	2.96	146.52	985.3	3.12	3.23	14.81	7.20		PSR-2-6	LDN UP3 C33-B	13-WHITE	303 G
306	2.96	149.48	988.2	3.13	3.23	14.80	7.20		PSR-2-6	LDN UP3 C33-B	13-WHITE	304 G
307	2.96	152.44	991.2	3.14	3.23	14.79	7.20		PSR-2-6	LDN UP3 C33-B	13-WHITE	305 G
308	2.96	155.40	994.1	3.14	3.23	14.79	7.20		PSR-2-6	LDN UP3 C33-B	13-WHITE	306 G
309	2.96	158.36	997.1	3.15	3.23	14.78	7.20		PSR-2-6	LDN UP3 C33-B	13-WHITE	307 G
310	2.96	161.32	1000.1	3.16	3.23	14.77	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	308 G
311	2.96	164.28	1003.0	3.17	3.23	14.76	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	309 G
312	2.96	167.24	1006.0	3.18	3.23	14.76	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	310 G
313	2.96	170.20	1008.9	3.19	3.23	14.75	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	311 G
314	2.96	173.16	1011.9	3.20	3.23	14.74	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	312 G
315	2.96	176.12	1014.9	3.20	3.23	14.74	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	313 G
<b>Tower 6</b>												
316	3.03	1.48	1017.9	3.23	3.23	14.73	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	314 G
317	2.96	4.44	1020.8	3.23	3.23	14.72	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	315 G
318	2.96	7.40	1023.8	3.24	3.23	14.72	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	316 G
319	2.96	10.36	1026.8	3.25	3.23	14.71	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	317 G
320	2.96	13.32	1029.7	3.26	3.23	14.71	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	318 G
321	2.96	16.28	1032.7	3.27	3.23	14.70	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	319 G
322	2.96	19.24	1035.7	3.28	3.23	14.69	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	320 G
323	2.96	22.20	1038.6	3.29	3.23	14.69	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	321 G
324	2.96	25.16	1041.6	3.29	3.23	14.68	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	322 G
325	2.96	28.12	1044.5	3.30	3.23	14.68	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	323 G
326	2.96	31.08	1047.5	3.31	3.23	14.67	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	324 G
327	2.96	34.04	1050.5	3.32	3.23	14.67	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	325 G
328	2.96	37.00	1053.4	3.33	3.23	14.66	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	326 G
329	2.96	39.96	1056.4	3.34	3.23	14.66	7.19		PSR-2-6	LDN UP3 C33-B	13-WHITE	327 G

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OUTLET COUNT	LOCATION		HYDRAULICS DATA				HARDWARE DESCRIPTION				Goose Neck	
	LAST OUTLET (FT)	DISTANCE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) & COLOR	G=180°Sg	Sg=125°Sg
330	2.96	42.92	1059.3	3.35	14.65	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE			328 G
331	2.96	45.88	1062.3	3.36	14.65	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			329 G
332	2.96	48.84	1065.3	3.37	14.64	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			330 G
333	2.96	51.80	1068.2	3.38	14.64	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			331 G
334	2.96	54.76	1071.2	3.39	14.64	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			332 G
335	2.96	57.72	1074.1	3.40	14.63	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			333 G
336	2.96	60.68	1077.1	3.41	14.63	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			334 G
337	2.96	63.64	1080.1	3.42	14.62	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			335 G
338	2.96	66.60	1083.0	3.43	14.62	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			336 G
339	2.96	69.56	1086.0	3.44	14.62	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			337 G
340	2.96	72.52	1088.9	3.44	14.61	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			338 G
341	2.96	75.48	1091.9	3.45	14.61	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			339 G
342	2.96	78.44	1094.9	3.46	14.61	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			340 G
343	2.96	81.40	1097.8	3.47	14.60	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			341 G
344	2.96	84.36	1100.8	3.48	14.60	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			342 G
345	2.96	87.32	1103.7	3.49	14.60	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			343 G
346	2.96	90.28	1106.7	3.50	14.59	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			344 G
347	2.96	93.24	1109.7	3.51	14.59	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			345 G
348	2.96	96.20	1112.6	3.52	14.59	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			346 G
349	2.96	99.16	1115.6	3.53	14.58	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			347 G
350	2.96	102.12	1118.5	3.54	14.58	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			348 G
351	2.96	105.08	1121.5	3.55	14.58	7.18	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			349 G
352	2.96	108.04	1124.5	3.56	14.58	7.17	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			350 G
353	2.96	111.00	1127.4	3.57	14.57	7.17	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			351 G
354	2.96	113.96	1130.4	3.58	14.57	7.17	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			352 G
355	2.96	116.92	1133.3	3.58	14.57	7.17	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			353 G
356	2.96	119.88	1136.3	3.59	14.57	7.17	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			354 G
357	2.96	122.84	1139.3	3.60	14.57	7.17	PSR-2-6	LDN UP3 C33-B	13.5-WHT/*			355 G
358	2.96	125.80	1142.2	3.61	14.56	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			356 G
359	2.96	128.76	1145.2	3.62	14.56	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			357 G
360	2.96	131.72	1148.1	3.63	14.56	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			358 G
361	2.96	134.68	1151.1	3.64	14.56	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			359 G
362	2.96	137.64	1154.1	3.65	14.56	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			360 G
363	2.96	140.60	1157.0	3.66	14.56	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			361 G
364	2.96	143.56	1160.0	3.67	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			362 G
365	2.96	146.52	1162.9	3.68	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			363 G
366	2.96	149.48	1165.9	3.69	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			364 G
367	2.96	152.44	1168.9	3.70	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			365 G
368	2.96	155.40	1171.8	3.71	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			366 G
369	2.96	158.36	1174.8	3.72	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			367 G
370	2.96	161.32	1177.7	3.73	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			368 G
371	2.96	164.28	1180.7	3.73	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE			369 G

# SENNINGER IRRIGATION

Date: 04/12/2022

Chart No: Sen-61634-22

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OUTLET COUNT	LOCATION		HYDRAULICS DATA				HARDWARE DESCRIPTION				GOOSE NECK
	DISTANCE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) & COLOR	
372	2.96	167.24	3.74	3.74	14.55	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE	370 G	
373	2.96	170.20	3.75	3.74	14.54	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE	371 G	
374	2.96	173.16	3.76	3.74	14.54	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE	372 G	
375	2.96	176.12	3.77	3.74	14.54	7.16	PSR-2-6	LDN UP3 C33-B	14-BLUE	373 G	
<b>Tower 7</b>		177.67									
376	2.80	1195.3	3.19	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	374 G	
377	2.50	3.75	3.20	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	375 G	
378	2.50	6.25	3.21	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	376 G	
379	2.50	8.75	3.21	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	377 G	
380	2.50	11.25	3.22	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	378 G	
381	2.50	13.75	3.23	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	379 G	
382	2.50	16.25	3.23	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	380 G	
383	2.50	18.75	3.24	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	381 G	
384	2.50	21.25	3.25	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	382 G	
385	2.50	23.75	3.25	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	383 G	
386	2.50	26.25	3.26	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	384 G	
387	2.50	28.75	3.27	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	385 G	
388	2.50	31.25	3.27	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	386 G	
389	2.50	33.75	3.28	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	387 G	
390	2.50	36.25	3.29	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	388 G	
391	2.50	38.75	3.29	3.23	14.54	7.19	PSR-2-6	LDN UP3 C33-B	13-WHITE	389 G	
	1.25	40.00	36.80	36.72	14.54	14.54	End Gun 1	Nelson R55 i 70 Yellow			

No Booster Pump

# Senninger Irrigation, Inc

13505 Granville Ave

Clermont, FL 34711

407-877-5655-ph  
407-905-8249-fax

Date: 04/12/2022

Chart No: Sen-61634-22

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## MATERIALS

## LDN UP3

Qty	Pad	Size	----- Positions -----																								
3	C24-B	4	1	2	3																						
4	C24-B	4.5	4	5	T-14	15																					
11	C24-B	5	6	16	17	18	19	20	21	22	23	24															
			25																								
14	C24-B	5.5	7	8	26	27	28	29	30	31	32	33															
			34	35	36	37																					
14	C24-B	6	9	10	38	39	40	41	42	43	44	45															
			46	47	48	49																					
16	C24-B	6.5	11	12	13-T	50	51	52	53	54	55	56															
			57	58	59	60	61	62																			
14	C24-B	7	63	64	65	66	67	68	69	70	71	72															
			73-T	T-74	75	76																					
16	C24-B	7.5	77	78	79	80	81	82	83	84	85	86															
			87	88	89	90	91	92																			
16	C24-B	8	93	94	95	96	97	98	99	100	101	102															
			103	104	105	106	107	108																			





# Senninger Irrigation, Inc

13505 Granville Ave

Clermont, FL 34711

407-877-5655-ph  
407-905-8249-fax

Date: 04/12/2022

Chart No: Sen-61634-22

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## MATERIALS

## LDN UP3

Qty	Pad	Size	----- Positions -----																																										
23	C33-B	12	T-254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276																				
25	C33-B	12.5	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301																		
43	C33-B	13	302	303	304	305	306	307	308	309	310	311	312	313-T	T-314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	T-374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389-T
27	C33-B	13.5	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355																
18	C33-B	14	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373-T																									
389	Total																																												

# Senninger Irrigation, Inc

13505 Granville Ave  
Clermont, FL 34711

407-877-5655-ph  
407-905-8249-fax

Date: 04/12/2022

Chart No: Sen-61634-22

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## QUANTITIES

Qty Item Description

389 LDN UP3 (164) C24-B (225) C33-B

13 PSR-2-10

376 PSR-2-6

2 Plugs

1 Nelson R55 i 70 Yellow

Drop lengths are based on the following values.

Span Tower height Crown height Ground Clearance ft  
1,2,3,4,5,6,7 0.00 0.00 3.00

Ground Clearance : General

These dimensions must be confirmed prior to manufacturing the drop components

### DEVIATION SUMMARY

Span number	Area	Required flow	Actual flow	% Deviation	GPM/Acre
1	1.18	8.55	8.93	4.34	7.55
2	5.56	41.06	41.17	0.27	7.41
3	10.11	74.88	75.10	0.29	7.43
4	14.66	108.60	108.66	0.05	7.41
5	19.22	142.32	141.66	-0.47	7.37
6	23.77	176.05	176.67	0.36	7.43
7	28.32	209.90	209.79	-0.05	7.41
8	7.00	51.72	51.47	-0.49	7.35
End Gun 1	4.92	36.80	36.72	-0.21	7.46
Nozzle Discharge Uniformity Coefficient = 97.5 %					

# Senninger Irrigation, Inc

13505 Granville Ave

Clermont, FL 34711

407-877-5655-ph  
407-905-8249-fax

Date: 04/12/2022

Chart No: Sen-61634-22

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## BILL of MATERIALS - Hydraulic Components

Qty	PartNumber	Cost	Description
389	LDNBRASMUP3		UP3 LDN 3/4" NPT
225	LDNPHDCBB		Concave - Bubblers
164	LDNPHDMCBB		Concave mini - Bubblers
389	LDNSUP3		LDN Shroud
2	FTP3		3/4" Plugs
3	UP3NZ04		# 4 UP3 Nozzle (light blue)
4	UP3NZ045		# 4.5 UP3 Nozzle (light blue) notche
11	UP3NZ05		# 5 UP3 Nozzle (beige)
14	UP3NZ055		# 5.5 UP3 Nozzle (beige) notched
14	UP3NZ06		# 6 UP3 Nozzle (gold)
16	UP3NZ065		# 6.5 UP3 Nozzle (gold) notched
14	UP3NZ07		# 7 UP3 Nozzle (lime)
16	UP3NZ075		# 7.5 UP3 Nozzle (lime) notched
16	UP3NZ08		# 8 UP3 Nozzle (lavender)
18	UP3NZ085		# 8.5 UP3 Nozzle (lavender) notched
18	UP3NZ09		# 9 UP3 Nozzle (grey)
20	UP3NZ095		# 9.5 UP3 Nozzle (grey) notched
20	UP3NZ10		#10 UP3 Nozzle (turquoise)
21	UP3NZ105		#10.5 UP3 Nozzle (turquoise) notched
23	UP3NZ11		#11 UP3 Nozzle (yellow)
25	UP3NZ115		#11.5 UP3 Nozzle (yellow) notched
23	UP3NZ12		#12 UP3 Nozzle (red)
25	UP3NZ125		#12.5 UP3 Nozzle (red) notched
43	UP3NZ13		#13 UP3 Nozzle (white)
27	UP3NZ135		#13.5 UP3 Nozzle (white) notched
18	UP3NZ14		#14 UP3 Nozzle (blue)
376	06 PSR-2		6 PSI PSR 2 3 3/4"f X 3/4" F
13	PSR2103F3F		10 PSI PSR 2 - 3/4"f X 3/4"f
1	Nozzle, Komet140 24de		Nozzle, Komet140 24deg .87

# Senninger Irrigation, Inc

13505 Granville Ave

Clermont, FL 34711

407-877-5655-ph  
407-905-8249-fax

Date: 04/12/2022

Chart No: Sen-61634-22

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## BILL of MATERIALS - Hydraulic Components

Qty	PartNumber	Cost	Description
1948	Total		











115 N 2nd ST. Parma, ID 83660 - (208) 722-5121  
 360 Riverside Ave Grand View, ID 83624 - (208) 834-2380  
 4975 West Winnemucca Blvd Winnemucca, NV 89445 - (775) 625-1945  
 9120 Lakeshore Dr. Nampa, ID 83686 (208) 482-3151  
 1200 S 10th E Mountain Home, ID 83647 (208) 580-4002  
 135 Day Ln Smith, NV 89430 (775) 465-2316  
 605 US-95 Weiser, ID 83672 (208) 549-2089

# Estimate

#EST55169

8/11/2022

**Bill To**

DWIGHT SMITH  
 JENNY GRANT  
 SVGMD  
 PO BOX 88  
 SIERRAVALLEYGMD@SBCGLOBAL.NET  
 CHILCOOT CA 96105  
 United States

**Sales Rep**

Megan Thomason

**Shipping Method**

Quantity	Item	Options	Price	Amount
1	<b>SPRL PKG - WISH SPRINKLER PACKAGE-WISH</b> LEPA SPRINKLER PACKAGE I-WOB2 USED ON FIRST SPAN TO AVOID OVERWATERING  382 - TOTAL DROPS 8 - SENNINGER I-WOB2 374 - SENNINGER LDN/BUBBLERS  8 - SINGLE DROPS 125 - 3-WAY SPLIT DROPS 1 - ENDGUN AND NOZZLE SPRINKLER CHART PRINT OUT		\$14,495.00	\$14,495.00
1	<b>FREIGHT</b> FREIGHT		\$425.00	\$425.00

**Subtotal** \$14,920.00

**Discount Rate**

**Tax (6.85%)** \$0.00

**Total** \$14,920.00

Buyer's Signature \_\_\_\_\_

Salesman Signature - Date \_\_\_\_\_

A-L Manager Signature - Date \_\_\_\_\_

Payment Schedule: \_\_\_\_\_% Down Payment \_\_\_\_\_ 1st Invoice at delivery of materials

Pipe Installation subject to Hard Digging Clause as specified on reverse side. Labor is estimated and will be adjusted to actual upon completion. Customer will be billed for actual footages used, returns credited for full pipe lengths only. Power Company service charges not included. Design changes from NRCS or customer will be subject to additional costs. With current market conditions prices are subject to change without notice.

BUYER AGREES THAT BUYER IS RESPONSIBLE FOR ALL FINANCIAL ARRANGEMENTS AND PAYMENTS OWED TO AGRI-LINES IRRIGATION., INCLUDING INTEREST ACCRUING AT 18% APR ON UNPAID BALANCES. BUYER FURTHER AGREES TO THE TERMS AND CONDITIONS SET FORTH (SEE REVERSE SIDE OF PAGE), WHICH ARE INCORPORATED HEREIN AND PART OF THIS AGREEMENT. THE TERMS AND CONDITIONS COVER ALL SALES OF GOODS AND SERVICES BY AGRI-LINES IRRIGATION, INC.







115 N 2nd ST. Parma, ID 83660 - (208) 722-5121  
 360 Riverside Ave Grand View, ID 83624 - (208) 834-2380  
 4975 West Winnemucca Blvd Winnemucca, NV 89445 - (775) 625-1945  
 9120 Lakeshore Dr. Nampa, ID 83686 (208) 482-3151  
 1200 S 10th E Mountain Home, ID 83647 (208) 580-4002  
 135 Day Ln Smith, NV 89430 (775) 465-2316  
 605 US-95 Weiser, ID 83672 (208) 549-2089

# Estimate

#EST55159

8/11/2022

**Bill To**

DWIGHT SMITH  
 JENNY GRANT  
 SVGMD  
 PO BOX 88  
 CHILCOOT CA 96105  
 United States

		Sales Rep	Shipping Method	
		Megan Thomason		
Quantity	Item	Options	Price	Amount
1	<b>SPRL PKG - WISH SPRINKLER PACKAGE-WISH</b> LEPA SPRINKLER PACKAGE INCLUDES THE FIRST SPAN BEING ORBITOR STYLE SPRINKLERS TO REDUCE OVERWATERING		\$14,523.85	\$14,523.85
	382 - TOTAL DROPS 8 - NELSON ORBITORS 374 - NELSON SPRAYHEADS/BUBBLERS			
	8 - SINGLE DROPS 125 - 3-WAY SPLIT DROPS 1 - ENDGUN AND NOZZLE SPRINKLER CHART PRINT OUT			
1	<b>FREIGHT</b> FREIGHT		\$425.00	\$425.00
			<b>Subtotal</b>	\$14,948.85
			<b>Discount Rate</b>	
			<b>Tax (6.85%)</b>	\$0.00
			<b>Total</b>	\$14,948.85

Buyer's Signature \_\_\_\_\_

Salesman Signature - Date \_\_\_\_\_

A-L Manager Signature - Date \_\_\_\_\_

Payment Schedule: \_\_\_\_\_% Down Payment \_\_\_\_\_ 1st Invoice at delivery of materials

Pipe Installation subject to Hard Digging Clause as specified on reverse side. Labor is estimated and will be adjusted to actual upon completion. Customer will be billed for actual footages used, returns credited for full pipe lengths only. Power Company service charges not included. Design changes from NRCS or customer will be subject to additional costs. With current market conditions prices are subject to change without notice.

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115 N 2nd ST. Parma, ID 83660 - (208) 722-5121  
 360 Riverside Ave Grand View, ID 83624 - (208) 834-2380  
 4975 West Winnemucca Blvd Winnemucca, NV 89445 - (775) 625-1945  
 9120 Lakeshore Dr. Nampa, ID 83686 (208) 482-3151  
 1200 S 10th E Mountain Home, ID 83647 (208) 580-4002  
 135 Day Ln Smith, NV 89430 (775) 465-2316  
 605 US-95 Weiser, ID 83672 (208) 549-2089

# Estimate

#EST55328

8/12/2022

**Bill To**

DWIGHT SMITH  
 JENNY GRANT  
 SVGMD  
 PO BOX 88  
 CHILCOOT CA 96105  
 United States

		Sales Rep	Shipping Method	
		Megan Thomason		
Quantity	Item	Options	Price	Amount
3	<b>GROUP</b> MOB/DEMOB AND LODGING MOB IN AND OUT HOTEL FOR 3 NIGHTS MEALS FOR 3 DAYS			\$1,545.00
382	<b>SPRINKLER PKG INSTALL SPRINKLER PKG INSTALL</b> REMOVE OLD & INSTALL NEW SPRINKLER PACKAGE COMPLETE  INCLUDES 3 MAN CREW AND SKIDSTEER		\$17.00	\$6,494.00
			<b>Subtotal</b>	\$8,039.00
			<b>Discount Rate</b>	
			<b>Tax (6.85%)</b>	\$0.00
			<b>Total</b>	\$8,039.00

\_\_\_\_\_  
 Buyer's Signature                      Salesman Signature - Date                      A-L Manager Signature - Date

Payment Schedule: \_\_\_\_\_% Down Payment \_\_\_\_\_ 1st Invoice at delivery of materials

Pipe Installation subject to Hard Digging Clause as specified on reverse side. Labor is estimated and will be adjusted to actual upon completion. Customer will be billed for actual footages used, returns credited for full pipe lengths only. Power Company service charges not included. Design changes from NRCS or customer will be subject to additional costs. With current market conditions prices are subject to change without notice.

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115 N 2nd ST. Parma, ID 83660 - (208) 722-5121  
 360 Riverside Ave Grand View, ID 83624 - (208) 834-2380  
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 1200 S 10th E Mountain Home, ID 83647 (208) 580-4002  
 135 Day Ln Smith, NV 89430 (775) 465-2316  
 605 US-95 Welser, ID 83672 (208) 549-2089

# Estimate

#EST55027

8/11/2022

**Bill To**

DWIGHT SMITH  
 JENNY GRANT  
 SVGMD  
 PO BOX 88  
 CHILCOOT CA 96105  
 United States

**Sales Rep**

Megan Thomason

**Shipping Method**

Quantity	Item	Options	Price	Amount
125	<b>GNAP125DB GOOSENECK, PVC MXB 3/4" 125DB</b> GOOSENECK, PVC MXB 3/4" 125DB		\$4.14	\$517.50
13	<b>GNAP180X6B GOOSENECK, PVC MXB 3/4" 180D</b> GOOSENECK, PVC MXB 3/4" 180D		\$3.65	\$47.45
376	<b>1043389 REGULATOR, SENN, LF, 06 PSI</b> REGULATOR, SENN, LF, 06 PSI		\$7.05	\$2,650.80
13	<b>PSR10 REGULATOR, SENN 10#</b> REGULATOR, SENN 10#		\$8.65	\$112.45
389	<b>MAGWGTSLP WEIGHT, .85 PLASTIC MAG SLIP</b> WEIGHT, .85 PLASTIC MAG SLIP		\$4.75	\$1,847.75
158	<b>H-10 CLAMP, SCREW STANDARD 3/4"</b> CLAMP, SCREW STANDARD 3/4"		\$0.52	\$82.16
79	<b>FTA3M3B ADAPTER, 3/4" MALE X 3/4" BARB</b> ADAPTER, 3/4" MALE X 3/4" BARB		\$0.67	\$52.93
389	<b>SPEC Special Order Items</b> LDN UP3 BRACKET		\$2.95	\$1,147.55
225	<b>SPEC Special Order Items</b> Wide Spray Bubbler / Blue Concave 33-groove		\$4.15	\$933.75
164	<b>SPEC Special Order Items</b> Concave mini - Bubbler		\$4.15	\$680.60
389	<b>SPEC Special Order Items</b> LDN Shroud		\$2.15	\$836.35
389	<b>GROUP</b> UP3 NOZZLES			\$662.80
5,000	<b>9084059600 HOSE, DROP STANDARD 3/4"</b> HOSE, DROP STANDARD 3/4"		\$0.48	\$2,400.00
1	<b>FREIGHT</b> FREIGHT  THIS IS AN ESTIMATE - ACTUAL FREIGHT WILL BE CHARGED		\$425.00	\$425.00

Pipe Installation subject to Hard Digging Clause as specified on reverse side. Labor is estimated and will be adjusted to actual upon completion. Customer will be billed for actual footages used, returns credited for full pipe lengths only. Power Company service charges not included. Design changes from NRCS or customer will be subject to additional costs. With current market conditions prices are subject to change without notice.

BUYER AGREES THAT BUYER IS RESPONSIBLE FOR ALL FINANCIAL ARRANGEMENTS AND PAYMENTS OWED TO AGRI-LINES IRRIGATION, INCLUDING INTEREST ACCRUING AT 18% APR ON UNPAID BALANCES. BUYER FURTHER AGREES TO THE TERMS AND CONDITIONS SET FORTH (SEE REVERSE SIDE OF PAGE), WHICH ARE INCORPORATED HEREIN AND PART OF THIS AGREEMENT. THE TERMS AND CONDITIONS COVER ALL SALES OF GOODS AND SERVICES BY AGRI-LINES IRRIGATION, INC.









115 N 2nd ST. Parma, ID 83660 - (208) 722-5121  
 360 Riverside Ave Grand View, ID 83624 - (208) 834-2380  
 4975 West Winnemucca Blvd Winnemucca, NV 89445 - (775) 625-1945  
 9120 Lakeshore Dr. Nampa, ID 83686 (208) 482-3151  
 1200 S 10th E Mountain Home, ID 83647 (208) 580-4002  
 135 Day Ln Smith, NV 89430 (775) 465-2316  
 605 US-95 Weiser, ID 83672 (208) 549-2089

# Estimate

#EST55027

8/11/2022

<b>Subtotal</b>	\$12,397.09
<b>Discount Rate</b>	
<b>Tax (6.85%)</b>	\$0.00
<b>Total</b>	\$12,397.09

\_\_\_\_\_  
Buyer's Signature

\_\_\_\_\_  
Salesman Signature - Date

\_\_\_\_\_  
A-L Manager Signature - Date

Payment Schedule: \_\_\_\_ % Down Payment \_\_\_\_ 1st Invoice at delivery of materials

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# Estimate

#EST55329

8/12/2022

**Bill To**

DWIGHT SMITH  
 JENNY GRANT  
 SVGMD  
 PO BOX 88  
 CHILCOOT CA 96105  
 United States

		Sales Rep	Shipping Method	
		Megan Thomason		
Quantity	Item	Options	Price	Amount
3	<b>GROUP</b> MOB/DEMOB AND LODGING MOB IN AND OUT HOTEL FOR 3 NIGHTS MEALS FOR 3 DAYS			\$1,545.00
389	<b>SPRINKLER PKG INSTALL SPRINKLER PKG INSTALL</b> REMOVE OLD & INSTALL NEW SPRINKLER PACKAGE COMPLETE  INCLUDES 3 MAN CREW AND SKIDSTEER		\$17.00	\$6,613.00
			<b>Subtotal</b>	\$8,158.00
			<b>Discount Rate</b>	
			<b>Tax (6.85%)</b>	\$0.00
			<b>Total</b>	\$8,158.00

\_\_\_\_\_  
 Buyer's Signature                      Salesman Signature - Date                      A-L Manager Signature - Date

Payment Schedule: \_\_\_\_\_ % Down Payment \_\_\_\_\_ 1st Invoice at delivery of materials

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