

## A-1 CONSTRUCTION SERVICES



6108 Brittmoore Road ♦ Houston, Texas ♦ 77041 Phone 713-975-1819 ♦ Fax 713-975-9158 ♦ www.a1sp.com

## **Letter of Transmittal**

To: City of League City Building Official  From: Justin Wing, A-1 Construction Services  Date: 10/26/2017  Re: Brookport Drive – League City, TX 77573  Description: Pinnacle Park – Brookport Drive - Site Lighting Permit Transmittal  Documents Transmitted:  1. City of League City Commercial Permit Application – 2 Pages 2. MV Electric, Inc. – Brookport Drive Site Lighting Plan – 1 Page 3. Brookport Drive Site Lighting Plan – As Built Drawing – 1 Page 4. Burrus & Matthew, Inc. – Brookport Drive Lighting Layout Photometric Plan – 4 Pages 5. RAB Lighting – ALED2T150 – Product Information Sheet - 2 Pages 6. Hapco Pole Products – SSS3006-4-BM – Product Information Sheet -1 Page 7. Braun Intertec – Light Pole Concrete Bases Letter – 120 MPH Wind Requirement – 5 Pages							
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RECEIVED BY: DATE:	RECEIVED RV	DATE:					

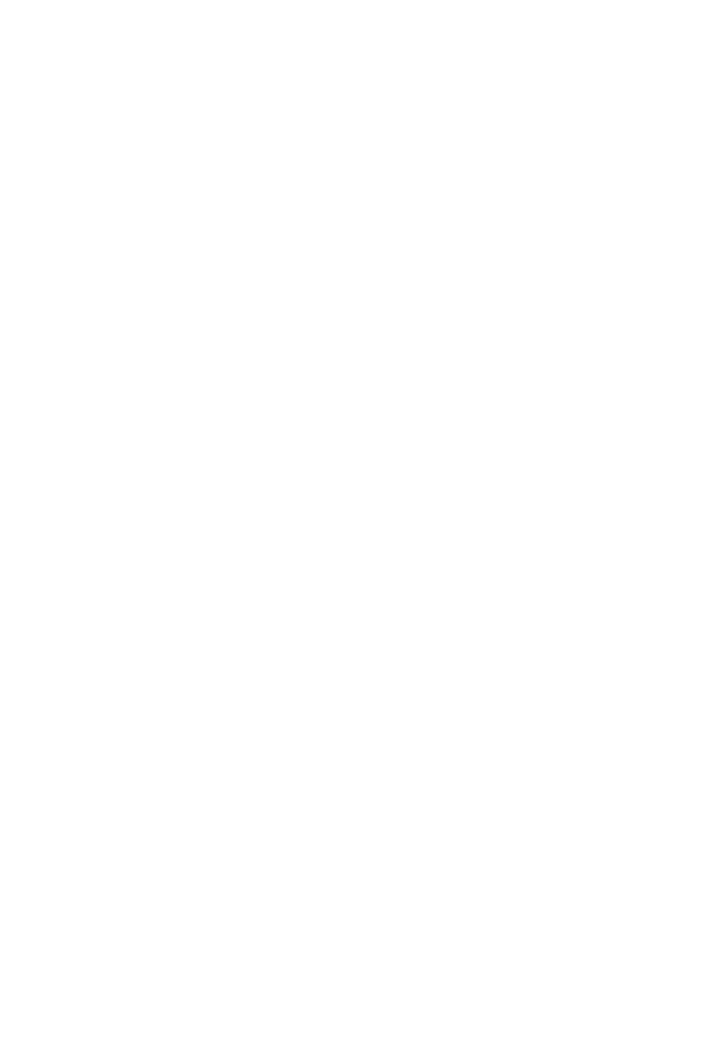


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Commercial Permit Application
500 W. Walker St. League City, TX 77573 Phone: 281-554-1429 Fax: 281-554-1460

	_	JUU VV. VVai	ker St. League Cit	y, 1X 77575 Phone. 20	1-554-1428		
Project	Pinnacle Park - B	rookport Drive				Permit No.:	
Address:	1502 1/2 Brookp	ort Drive				Date:	
Address.	League City, Tex	as 77573				Fee Due:	
Estimated Cost of	Construction:	\$60,000.00				CRF's Due:	\$
Describe work t	to be done:				Tota	al Permit Fee Cost:	\$
	Roadway lie	ahtina to se	erve Brookpoi	rt Drive	Sul	otract Plan Review:	\$
	Troduvay II	ginning to ot	or brookpor	LDIIVO			
				(When permit is a	approved)	Final Amount Due:	\$
Legal Description:	Lot:	Block:	Subdivisi	ion:		Section:	
Type of permit:	BUILDII	VG ☑	MECHANICAL	□ ELEC	CTRICAL	☑ (Chool	( all that apply )
W	PLUMBII	NG 🗌	GAS		OTHER	T (Crieci	k all that apply.)
Owner:			10.10   D	General Contract	or:		
Owner: 101 L	_eague C	lity 1-45/	646, L.P.		A-1	Constructio	n Services
Street: 6108 Brittmo	ore Road, Suite 2	00		Street: 6108 Brittmoor	e Road, Su	ite 100	
City, State, Zip: Ho	uston, Texas 770	41		City, State, Zip: Hous	ton, Texas	77041	
Phone No.: 713-944	1-2224		6	Phone No.: 713-975-1	1819		
E-Mail: jmeador@a1	sp.com			E-Mail; jwing@a1sp.co	m		and an opening
Subcontractors	:	Company Nan	ne		Mas	ter's Name	
Electrical: MV El	ectric, Inc.			Clay Fife			
Plumbing:							
Mechanical:							
Other:							
<b>Building Inform</b>	ation:	Total Area:		Flood Zone:	Bas	se Flood Elevation:	
		Stories:				Finished Floor:	
Туре	of Construction	(IBC Ch 5):	7. 00000000		Lowe	st Adjacent Grade:	
Annual Control of the	Occ	upant Load:		Eleva	ation Cert.	□ No R	tise Cert.
Provided Docum	nents:	Submit one (1)	copy of each (that	applies) on a digital CD.		NOTICE: I HEREBY CERTIF	Y THAT I HAVE READ
	Survey □	0	Plot Plan □	Energy Cert.		AND EXAMINED THIS APPI THE SAME TO BE TRUE AT	
Plumbing /	Gas Riser □	Mechanica	al Layout 🗆	Elec. Load Analysis		PROVISIONS OF LAWS AN GOVERNING THE TYPE OF	D ORDINANCES
Construc	tion Plans 🗐	Asbesto	s Survey	TDLR#		COMPLIED WITH, WHETHE	R SPECIFIED OR NOT.
If not using city service	ce, attach a copy	of the approved	County Health Distr	ict permit for this addres	ss.	THE GRANTING OF A PERI TO GIVE AUTHORITY TO V	
Private Sewa	ige Permit 🗆	We	ell Permit 🗆	Other		PROVISIONS OF ANY OTH LAW REGULATING CONST	
NOTE: Construction	or modification of	all structures ov	er 250 sq. ft. require	es an engineered windst	torm	PERFORMANCE OF CONS	TRUCTION.
				by an engineer at the tim		I'UNDERSTAND THE LEAG CONSTRUCTION TIMES AF	
permit submittal. Upc Building Official for fil			Windstorm Certific	ation must be provided	to the	7:00PM AND CITATIONS W	ILL BE ISSUED IF NOT
		and the second second			_		81011171107
Additional Depart		22		Operations Permit		APPLICANTS	SIGNATURE
Development Re	view DRC LI	Fire	Marshal	Historic District		11 20	, -
				County Health District		Printed Name: Jus	
Additional Comments	3:					Phone No.: 713-9	AND ALL DESCRIPTION OF THE PARTY OF THE PART
						E-Mail: jwing@a	11sp.com
						Initial Review	
							Date:
Storm Motor Dal	lution Proventi	on Plan (SM	IDDD) should be	in place at all times	during	Approved	
Storm Water Por	iddon Fleventi	constru		in place at <u>all</u> times	s during		Date:

**BUILDING DEPARTMENT** Revised: August 21, 2014



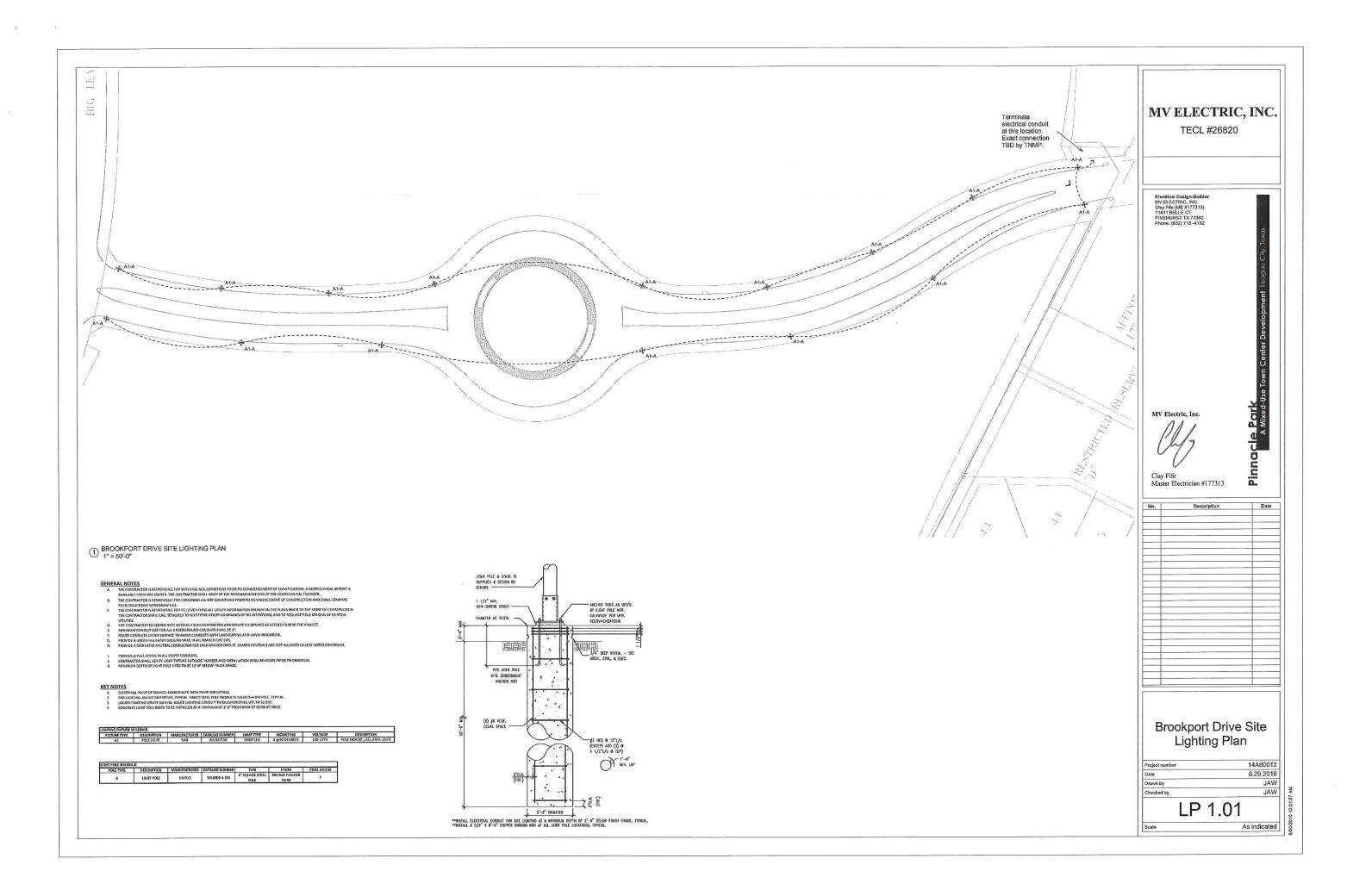


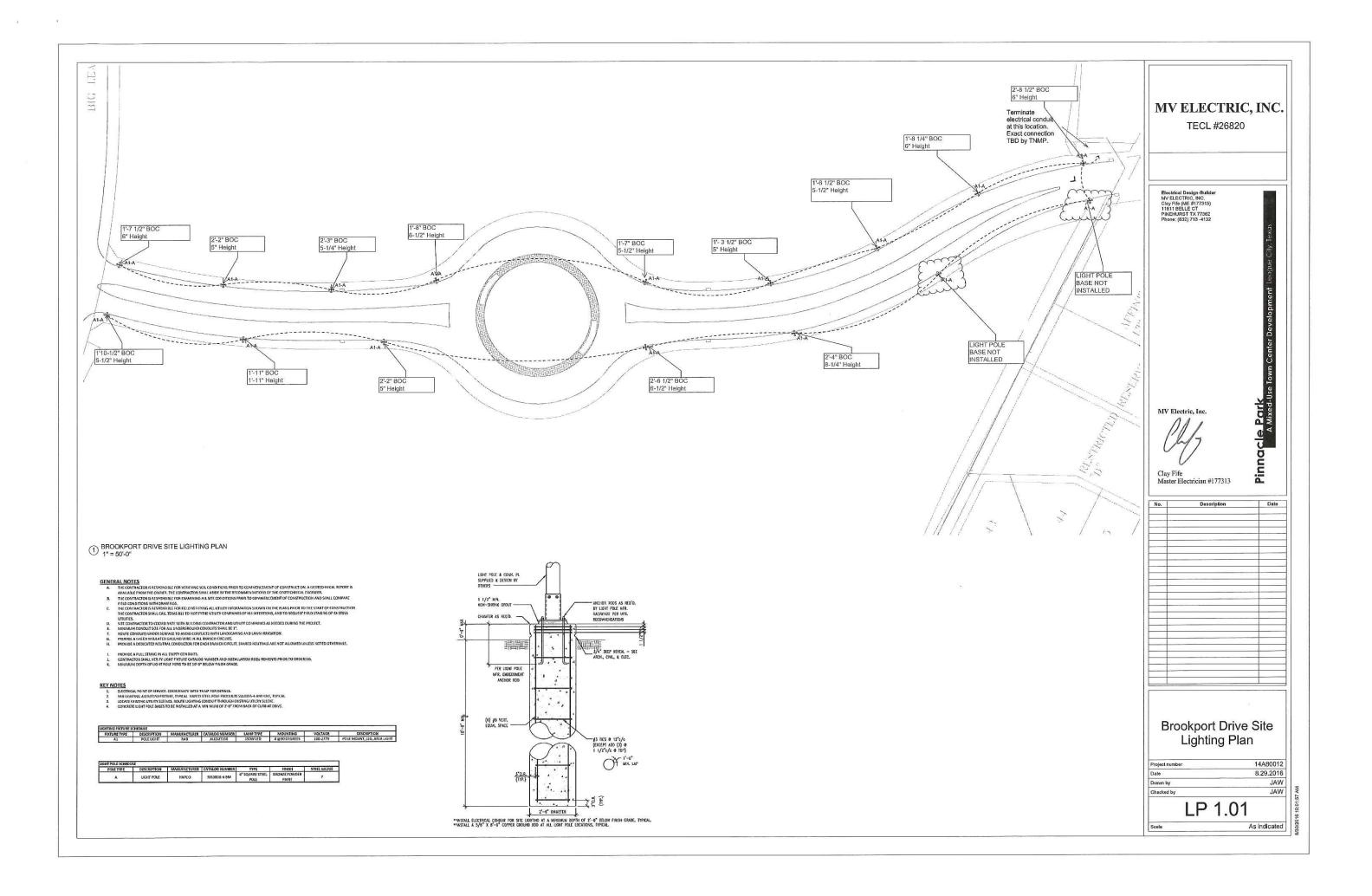
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Commercial Permit Application

500 W. Walker St. League City, TX 77573 Phone: 281-554-1429 Fax: 281-554-1460

		The second of th		
Project	Pinnacle Park - Pinnacle Park Drive		Permit No.:	
Address:	Pinnacle Park Drive @ Brookport Drive		Date:	
Address.	League City, Texas 77573		Fee Due:	
Estimated Cost of	Construction: \$80,000.00		CRF's Due:	\$
<b>Building Permit</b>	5.		131	
	Constru	uction cost over:		
	Per Ad	dditional \$1000:		
		Plus :		
	Sche	eduled Base Fee:		
	f	Plan Review Fee:		
		Total:	\$	
Electrical Permi		Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:	\$25.00 1		
	Meter Loop:	\$10.00 O		
	For each Circuit:	72 <u>(112 )</u>		
	1 Pole	\$5.00		
	2 Pole	\$10.00		
	3 Pole	\$15.00 0	20	
	Temporary Service Pole (T-Pole):	\$25.00		
	Temporary Cut In (TCI):	\$25.00		
	Transformer (per KVA):	\$5.00 0		
		Total:	\$ 25.00	
Plumbing Permi		Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:	\$25.00		
	Each fixture, floor drain, or trap:	\$3.00		
	Sewer (new, replaced, or repaired)	\$10.00		
		Total:	\$	
Gas Permit		Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:	\$25.00		
	Each fixture outlet:	\$5.00		
		Total:	\$	
Mechanical Perr	nit	Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:	\$25.00		
		\$30.00		l
	Cooling Units over 5 tons (per Ton):	\$10.00		
	Boilers (per 500K Btu of input):	\$10.00		
		Total:	\$	
	WAR		le.	
	Total of al	I permit fees:	\$	





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1,0 1,0 0,9 0,8 0,7 0,6 0,5 0,4 0,3 0,3 0,3 0,3 0	0,3 0,3 0,3 0,3 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2	0,2 0,2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	\$\bar{0}_{0,2}\$ \$\bar{0}_{0,2}\$ \$\bar{0}_{0,2}\$ \$\bar{0}_{0,2}\$ \$\bar{0}_{0,2}\$ \$\bar{0}_{0,3}\$ \$\bar{0}_{0,3}\$ \$\bar{0}_{0,3}\$ \$\bar{0}_{0,4}\$ \$\bar{0}_{0,4}\$ \$\bar{0}_{0,4}\$ \$\bar{0}_{0,4}\$ \$\bar{0}_{0,4}\$	0.3 0.2 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0
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5 5 5 5 5 5 4 5 4 5 3 5 3 5 2 5 2 5 2 5 2 5 2	0.2 0.2 0.3 0.3 0.4 0.4 0.5 0.5	0.5 0.5 0.5 0.5 0.6 0.6 0.8 1.0	1.3 1.7 2.1 2.6 3.0 3.6 3.9 3.6 2.9 2.4 2.2 2.3	3.2 4.1 5.0 5.3 1.6 5.1 2.2 1.2 2.1 1.9 1.6 1.5 1.6 1.9 MH 35 4.5 5.8 1.0 1.5 1.6
0.9 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.3 0.3 0.3	0.3 0.4 0.4 0.5 0.6 0.7 0.8 0.8	0.8 0.8 0.7 0.7 0.7 0.8 0.9 1.2	1.6 2.3 2.9 3.7 4.8 5.3 5.3 4.9 40	2,7 2,9 3,2 3,8 3.7 3,1 50 1.4 1.3 1.3 1.2 1.0 1.6 1.1 1.2 1.6 2.0 2.6 3xx 4.3 4.8 5.1
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4.3 4.3 3.8 3.1 2.5 2.1 1.5 1.1 0.9 0.8 0.8		3.9 3.8 2.8 2.2 1.8 1.6 1.6 1.8	8.9 6.6 6.5 6.5 5.7 4.6 3.7 3.1	1 3.6 5.0 5.6 5.3 4.3 3 2.4 1.1 1.1 0.7 6.4 6.3 6.3 6.3 6.4 6.5 6.6 6.7 6.9 6.9
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Scale: 1 inch= 40 Ft.			· · · · · · · · · · · · · · · · · · ·	
Prepare	ed For:	Name:	Scale: as noted	
	9	hting Layout	Date:8/19/2016	†
BMI Burrus & Matthews, Inc		rsion A	Filename: Final.AGI	
Electrical Manufacturers' Representative			Drawn By:Chris Sims	
Filename:	C:\Users\Christopher\Documents\Lighting Layouts\Au	ig 16\Clty Matt Dunn\Final.AGI		

Calculation Summa	ry												
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Desci	ription		PtSpcLr	PtSpcTb	Meter Type
CalcPts_1	Illuminance	Fc	0.99	10.0	0.0	N.A.	N.A.		-		10	10	Horizontal
CalcPts_2	Illuminance	Fc	1.49	10.1	0.0	N.A.	N.A.				10	10	Horizontal
DatoPtair@ Schedule	Illuminance	Fc	2.86	9.4	0.0	N.A.	N.A.				10	10	Horizontal
Symbol Qty	Tag Label		Arrange	ement	Lum. L	umens	Arr. Lum. Lu	mens	LLF	Description	Lum. W	atts Ar	r. Watts To

Symbol	Qty	Tag	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Description	Lum. Watts	Arr. Watts	<b>Total Watts</b>	Filename
Ţ-a	16	Α	ALED4T1503 @ 90	3 @ 90 DEGREE	S1 4349	43047	1.000	TType IV Area Light - 3 @ 90	155.7	467.1	7473.6	ALED4T150 - Cool - ITL79629.IES
-	16	В	ALED2T150 - Cool - I	SINGLE	14038	14038	1.000	Type II area light	153.7	153.7	2459.2	ALED2T150 - Cool - ITL79617.IES

Expanded Luminaire Location Summary									
LumNo	Tag	X	Υ	MTG HT					
2	Α	-1168.911	250.898	30					
2	Α	-1171.462	249.677	30					
2	Α	-1167.69	248.347	30					
3	Α	-1027.871	224.661	30					
3	Α	-1029.997	222.795	30					
3	Α	-1026.005	222.535	30					
4	Α	-882.042	217.014	30					
4	Α	-884.051	215.023	30					
4	Α	-880.051	215.005	30					
5	Α	-1187.453	179.079	30					
5	Α	-1185.061	180.589	30					
5	Α	-1188.963	181.471	30					
6	Α	-1001.006	146.169	30					
6	Α	-998.899	148.056	30					
6	Α	-1002.893	148.276	30					
7	Α	-809.91	141.916	30					
7	Α	-807.911	143.917	30					
7	Α	-811.911	143.915	30					
8	Α	-738.831	228.985	30					
8	Α	-739.807	226.331	30					
8	Α	-736.177	228.009	30					
9	Α	-453.192	226.726	30					
9	Α	-455.85	225.76	30					
9	Α	-452.226	224.068	30					
10	Α	-453.099	134.055	30					
10	Α	-451.603	136.455	30					
10	Α	-455.499	135.551	30					
11	Α	-284.541	225.11	30					
11	A	-285.885	222.622	30					
11	Α	-282.053	223.766	30					
12	A	-250.564	152.77	30					
12	Α	-249.205	155.251	30					
Total Qu									

			area light		100.
	ded Luminaire Location Summary	and the second			
Control of the Contro	o Label	X	Υ	Z	Orient
12	ALED4T1503 @ 90	-253.045		30	196.295
13	ALED4T1503 @ 90	-141.343	TOTAL STREET, CONTROL OF THE STREET, CONTROL	30	117.539
13	ALED4T1503 @ 90	-142.191		30	207.539
13	ALED4T1503 @ 90	-138.645		30	27.539
14	ALED4T1503 @ 90	-55.669	232.288	30	300.572
14	ALED4T1503 @ 90	-54.964	235.027	30	30.572
14	ALED4T1503 @ 90	-58.408	232.993	30	210.572
15	ALED4T1503 @ 90	-4.364	346.135	30	112.753
15	ALED4T1503 @ 90	-5.434	343.517	30	202.753
15	ALED4T1503 @ 90	-1.746	345.065	30	22.753
16	ALED4T1503 @ 90	149.729	331.55	30	285.606
16	ALED4T1503 @ 90	151.117	334.014	30	15.606
16	ALED4T1503 @ 90	147.265	332.938	30	195.606
17	ALED4T1503 @ 90	140.761	386.941	30	96.157
17	ALED4T1503 @ 90	138.988	384.738	30	186.157
17	ALED4T1503 @ 90	142.964	385.168	30	6.157
18	ALED2T150 - Cool - ITL79617	141.231	382.969	30	277.337
19	ALED2T150 - Cool - ITL79617	148.803	336.66	30	102.194
20	ALED2T150 - Cool - ITL79617	-2.853	342.432	30	291.631
21	ALED2T150 - Cool - ITL79617	-57.862	235.628	30	126.021
22	ALED2T150 - Cool - ITL79617	-139.415		30	304.981
23	ALED2T150 - Cool - ITL79617	-251.509	156.653	30	101.056
24	ALED2T150 - Cool - ITL79617	-283.483	220.883	30	284.147
25	ALED2T150 - Cool - ITL79617	-454.254	137.875	30	110.576
26	ALED2T150 - Cool - ITL79617	-455.011	223.167	30	240.897
27	ALED2T150 - Cool - ITL79617	-737.222	225.324	30	292.654
28	ALED2T150 - Cool - ITL79617	-809.98	145.584	30	90.057
29	ALED2T150 - Cool - ITL79617	-882.025		30	270.733
30	ALED2T150 - Cool - ITL79617	-1000.74		30	85.67
31	ALED2T150 - Cool - ITL79617	-1028.00	220.665	30	270.011
32	ALED2T150 - Cool - ITL79617	-1186.57	182.982	30	77.358
33	ALED2T150 - Cool - ITL79617	-1169.77	247.247	30	249.404

	Prepared For:	Job Name:	Scale: N.T.S.		
BIVI Burrus & Matthews, Inc. Electrical Manufacturers' Representative		Lighting Layout Version A	Date:8/19/2016		
			Filename: Final.AGI		
			Drawn By:Chris Sims		
Filename: C:\Users\Christopher\Documents\Lighting Layouts\Aug 16\Clty Matt Dunn\Final.AGI					

#### Created: 11/21/2014

Specification grade area lights available in IES Type II distributions. For use in parking lots, roadways, pathways and general area lighting. Replaces up to 400W metal halide. Patent pending thermal management system. 5 Year Warranty.

LED Info		Driver Info	i
Watts:	150W	Type:	Constant Current
Color Temp:	5000K (Cool)	120V:	1.31A
Color Accuracy:	65	208V:	0.80A
L70 Lifespan:	100000	240V:	0.69A
LM79 Lumens:	14038	277V:	0.60A
Efficacy:	91 LPW	Input Watts:	154W
		Efficiency:	98%

## **Technical Specifications**

#### **UL Listing:**

Suitable for wet locations.

#### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

#### IES Classification:

The Type II distribution is ideal for wide walkways, on ramps and entrance roadways, bike paths and other long and narrow lighting applications. This type is meant for lighting larger areas and usually is located near the roadside. This type of lighting is commonly found on smaller side streets or jogging paths.

#### **Effective Projected Area:**

EPA = 0.75

## LEDs:

Multi-chip, high-output, long-life LEDs

#### Drivers:

Two Drivers, Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%

#### THD:

6.6% at 120V, 12.1% at 277V

#### **Ambient Temperature:**

Suitable for use in 40°C (104°F) ambient temperatures.

#### Surge Protection:

4kV

#### **Cold Weather Starting:**

The minimum starting temperature is -40°F/-40°C.

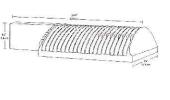
#### Thermal Management:

Superior thermal management with external Air-Flow



Weight: 32.0 lbs





#### Housing:

Die-cast aluminum housing, lens frame and mounting arm.

#### Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

#### Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

#### **Color Stability:**

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

#### **Color Uniformity:**

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Specular vacuum-metallized polycarbonate

#### Gaskets:

High-temperature silicone gaskets

### Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

#### Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.



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Email: sales@rabweb.com

On the web at: www.rabweb.com Note: Specifications are subject to change without notice



ALED2T150 - continued

#### IESNA LM-79 & LM-80 Testing:

RAB LED luminaries have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have been received the Department of Energy "Lighting Facts" label.

#### **DLC Listed:**

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

#### Replacement:

The ALED150 replaces 400W Metal Halide Area Lights.

#### California Title 24:

See ALED2T150/D10, ALED2T150/BL, ALED2T150/PCS, ALED2T150/PCS2, or ALED2T150/PCT for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

#### Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

#### For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

#### **Country of Origin:**

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

#### **Buy American Act Compliant:**

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

#### Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods--Buy American Act-- Construction Materials (October 2010).

#### **Trade Agreements Act Compliant:**

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

#### **GSA Schedule:**

Suitable in accordance with FAR Subpart 25.4.

Created: 11/21/2014



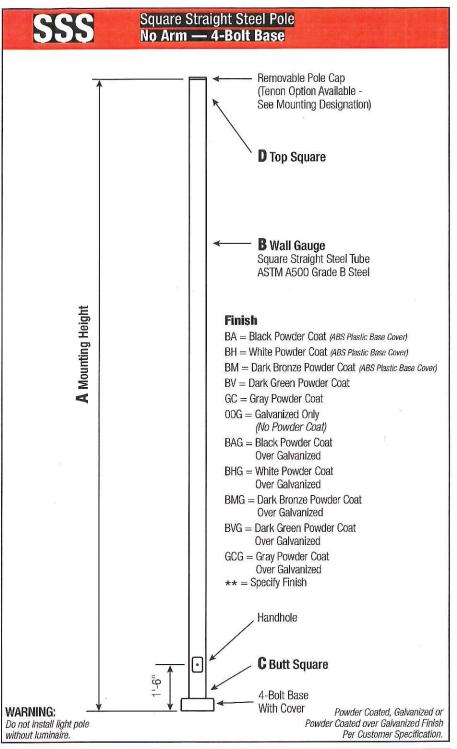
Tech Help Line: 888 RAB-1000 Copyright ©2014 RAB Lighting Inc. All Rights Reserved Email: sales@rabweb.com

On the web at: www.rabweb.com

Note: Specifications are subject to change without notice

Page 2 of 2





A Mrg. Hgr.	B Wall Gauge	C BUTT SQUARE	T <u>otal Lum.</u> Weight	90	100	Maximu 110	м EPA 120	130	140	Catalog Number
30	7	6	150	20.4	14.6	13.0	9.2	6.4	4.0	SSS30D6-4-**
В	C uti Sq.	Tor	) Sa,	F Bout Cir	.Dia.	Bas	G se Sq.		H Proj.	 Bolt Size
	6	6	3	11 - 1	13	1	2.5	4.8	375	1 x 36 x 4

Dimensions in Inches

Customer Name:		
Project:	Location:	

# SSS30D6-4

CATALOG NUMBER

FINISH

Pole shaft shall be weldable-grade, cold-rolled, 7 gauge commercial quality carbon steel tubing conforming to ASTM A500 Grade B. All welds shall conform to AWS D1.2 using ER70S-6 electrodes.

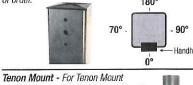
4-Bolt Ste of fabrical steel conf equivalen with 2-pie and attack Base Cove from ABS metal mai

Reinforced Screw and a tapped handhole

#### Anchorag four (4) L-Anchor Bo to AASHT Grade 55. (10") of th be galvan A153. Kit. eight (8) i four (4) La and eight (all compo Galvanize A bolt circ will be pro

If determi installed F Customer

Side Drill specify lui A luminali of order.



application (2.375", 2 length (3"

#### **EPA Note**

Effective Project wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.

Base Style	
teel Plate Base Flange ted hot rolled carbon forming to ASTM A36 or t (36 ksi minimum yield) tece Base Cover hing hardware. ter will be fabricated plastic or terials.	
Handhole	
d, 3" x 5" Handhole with Cover, Stainless Steel d Backbar. A Grounding Provision incorporating 1/2"-13NC hole will be welded to the frame.	
Anchorage	
re Kit will Include shaped Steel olds conforming O M314-90 Ten inches breaded end will dized per ASTM s will contain Hex Nuts, Headhole - 0° Handhole - 0° Handhole - 0°	×
Hex Nuts, he Bolt Proj. Bolt Proj. Bolt Size (8) Flat Washers onents of Steel). Cle template ovided.	¥
Vibration Damper	
ned necessary by Hapco, a top-mount, field First Mode Vibration Damper will be provided. · specification of the damper is available.	
Mounting Designation	
l Mount - For Side Drill Mount applications minaire type, quantity and orientation. re drilling template must be supplied at time 180°	
70° - 90° Handhole	
ount - For Tenon Mount ns specify both Tenon diameter 2.875", 3.5", 4", etc.) and ", 4", 5", 6", etc.).	
9S:	<del>-</del> 50



Braun Intertec Corporation 2522 Texas Ave. Texas City, TX 77590 Phone: 409.948.8494 Web: braunintertec.com

September 1, 2017

Project 2615-0102

Mr. Justin Wing
A-1 Construction
6108 Brittmoore
Houston, Texas 77041
Main: (713) 975-1819
E-Mail: jwing@a1sp.com

Re.

Light Pole Foundation Lateral Analysis (Rev-2)

Pinnacle Park League City, Texas

Dear Mr. Wing:

This letter serves to provide A-1 Construction with the results of our analysis of the proposed light pole foundation elements to resist lateral loading for the project.

## **Background**

A Geotechnical Engineering study was previously performed and reported on September 30, 2014 and a October 7, 2015, as well as a supplemental letter on March 4, 2015 with recommendations for the Light Pole Foundation Depths.

#### **New Information**

During the construction, the contractor proposed increasing the diameter of the drilled shaft elements supporting the light poles for the project from 24 inches to 30 inches. The project team requested that we perform additional analysis to evaluate if the installed depth of the drilled shaft foundation elements could be reduced and still resist the lateral wind loads acting on the 30-foot tall light poles.

#### Results

#### Lateral Analysis

We performed our lateral analysis of the light pole foundation drilled shaft elements using the provided lateral load of 734 pounds. We assumed the distributed wind load acting on the light pole could be resolved as an equivalent shear load acting at approximately 20 feet above the top of the shaft (2/3 the height of the pole) for a resulting moment of 14,680 feet-pounds. (176.2 inch-kips). We evaluated the 30-inch diameter shaft under a free head condition. We used the computer program LPILE (2016) to evaluate the lateral capacity of an individual pile based on the subsurface profile observed in Boring B-11.

In the lateral analysis, we neglected the upper three feet of soil to account for the presence of expansive soils at the site.

We have depicted the results of the lateral analysis graphically as an Attachment to this letter. If pile AA/EOE

Pinnacle Park Project 2615-0102 September 1, 2017 Page 2

spacing closer than 5-pile diameters center-to-center is used in the final design, group effects should be considered in accordance with Table 10.7.2.4-1 from the AASHTO LRFD Bridge Design Manual.

The following table provides the soil parameters used for the lateral pile analysis and p-y curve generation.

**Table 1. Lateral Analysis Soil Parameters** 

Layer Top Depth (feet)	Layer Bottom Depth (feet)	Effective Unit Weight (pcf)	Undrained Shear Strength (psf)	Material Type
0	8	110	1600	Stiff Clay w/o Free Water
8	20	115	3000	Stiff Clay w/o Free Water

## Recommendations

Based on the results of our analysis, we recommend a minimum drilled shaft embedment of 8 feet below grade to resist the lateral wind loads acting on the light poles. This minimum depth will achieve the 120 mph wind loading requirement, as described in the Lateral Analysis section of this letter.

#### Remarks

With the exception of any results or recommendations changed by this Letter, the information contained in our Geotechnical Evaluation Report remains unchanged.

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

If you have any questions about this Addendum, please contact Ryan Drury at 952.995.2229 or Michael Whitecotton at 409.948.8494.

Sincerely,

**BRAUN INTERTEC CORPORATION** 

Michael J. Whitecotton, PE Senior Geotechnical Engineer License Number 101329 Ryan T. Drury Associate Principal

Motthew P. Glisson for

F-12228 9-1-17

Attachments:

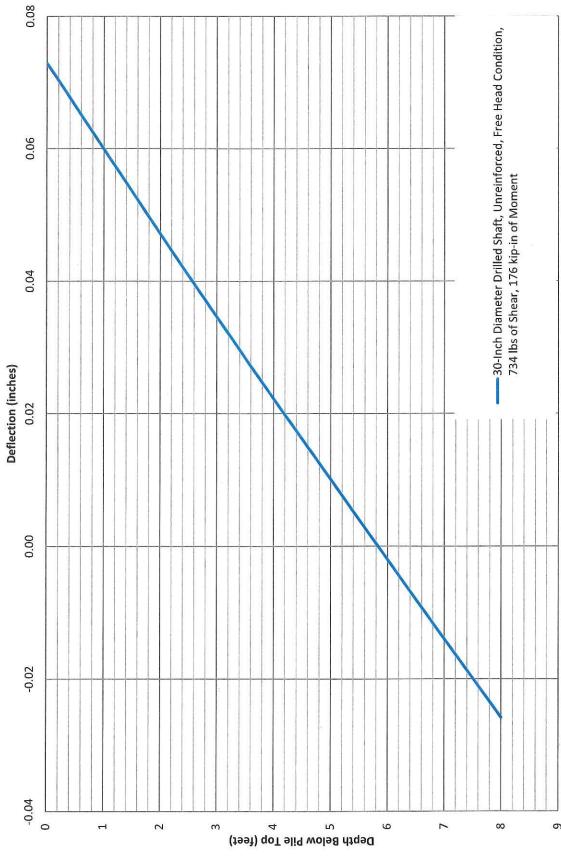
Lateral Analysis Results (3 pages)



N.			

# Lateral Analysis Results Boring: B-11 Pinnacle Park Light Pole League City, Texas

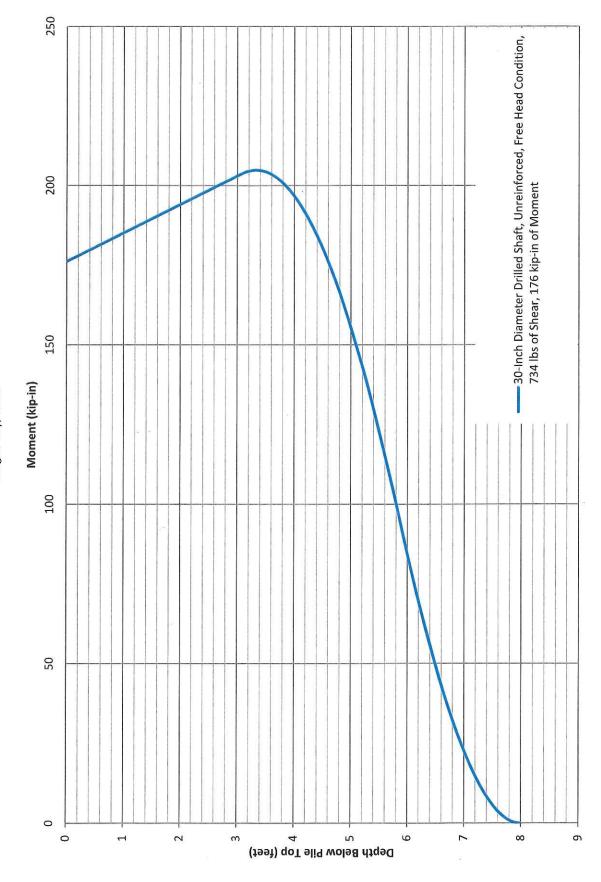




BRAUN



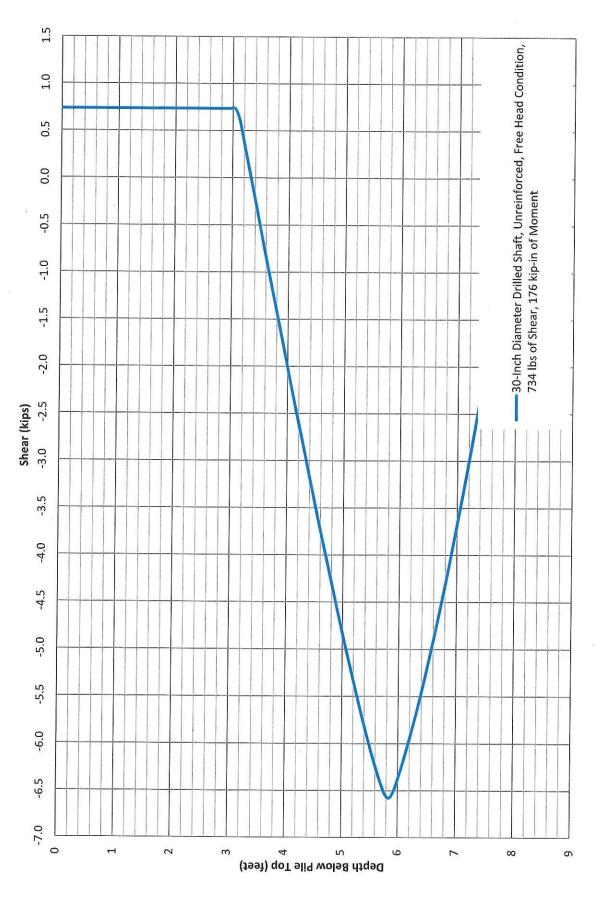
Lateral Analysis Results Boring: B-11 Pinnacle Park Light Pole League City, Texas



Braun Intertec Project No. 2615-0102



Lateral Analysis Results Boring: B-11 Pinnacle Park Light Pole League City, Texas



Braun Intertec Project No. 2615-0102







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# Commercial Permit Application

		500 W. Wal	ker St. League Cit	y, TX 77573 Phone: 28	1-554-1429		
Project	Pinnacle Park -	Pinnacle Park Dri	ve			Permit No.:	
Address:		rive @ Brookpor	t Drive			Date: Fee Due:	
	League City, Texas 77573						
Estimated Cost of	Construction:	\$ 120,000.0	0	W. Stuffedown (Inc.)		CRF's Due:	\$
Describe work t	to be done:				Tota	I Permit Fee Cost:	\$
Concrete	Sidewalk-w	ith Brick Pa	avers at Broo	kport Drive ROV	/ Sub	tract Plan Review:	\$
				(When permit is a	approved) I	Final Amount Due:	\$
Legal Description:	Lot:	Block:	Subdivis	ion:		Section:	
Type of permit:	BUILD	ING 🗹	MECHANICAL	□ ELEC	CTRICAL [	] (0)	
,	PLUMB	All and the second	GAS		OTHER [	(Chec	k all that apply.)
Owner: 101 L	_eague (	City I-45/	646, L.P.	General Contract	or: A-1	Constructio	n Services
Street: 6108 Brittmo			-	Street: 6108 Brittmoor			
City, State, Zip: Ho		041	-	City, State, Zip: Hous		77041	
Phone No.: 713-944	* Inches (19)			Phone No.: 713-975-1	10.000.000		
E-Mail: jmeador@a1				E-Mail; jwing@a1sp.co	m		- Control of the Cont
Subcontractors	:	Company Nan	ne	11	Mas	ter's Name	
Electrical:				15			
Plumbing:							
Mechanical:							
Other:							
<b>Building Inform</b>	ation:	Total Area:		Flood Zone:	Bas	e Flood Elevation:	
		Stories:				Finished Floor:	
Туре	of Construction					st Adjacent Grade:	
	Ос	cupant Load:		Eleva	ation Cert.	□ No R	Rise Cert.
Construction to design to meet 120 m	Survey   Gas Riser   tion Plans   ce, attach a copy  ge Permit   or modification of  ph, along with fo	Mechanica Asbesto of the approved We all structures over	Plot Plan □ al Layout □ s Survey □ County Health Distr ell Permit □ er 250 sq. ft. require ming plans sealed b	applies) on a digital CD. Energy Cert. Elec. Load Analysis TDLR # ict permit for this addres Other es an engineered windst by an engineer at the tim ation must be provided t	ss.	NOTICE: I HEREBY CERTII AND EXAMINED THIS APPI THE SAME TO BE TRUE AI PROVISIONS OF LAWS AN GOVERNING THE TYPE OF COMPLIED WITH, WHETHE THE GRANTING OF A PERI TO GIVE AUTHORITY TO V PROVISIONS OF ANY OTH LAW REGULATING CONST LUNDERSTAND THE LEAG CONSTRUCTION TIMES AF	LICATION AND KNOW ND CORRECT. ALL D ORDINANCES F WORK WILL BE FR SPECIFIED OR NOT. MIT DOES NOT PRESUME FIOLATE OR CANCEL THE FR STATE OR LOCAL FRUCTION OR THE TRUCTION. FUE CITY RE FROM 7:00AM TO
Building Official for fir	nal occupancy to	be granted.	Windstonn Certific			7:00PM AND CITATIONS W COMPLIANT. APPLICANT'S	
Additional Depart  Development Re		50 3 3	Marshal □	Operations Permit Historic District	00000	APPLICANT S	SIGNATURE
Development Re	New Dic [	riie	iviaisiiai 🗀	County Health District	5446	Printed Name: Jus	tin Mina
				County Health District	The state of the s		
Additional Comments	ii.				- 11	Phone No.: 713-9	
					1	E-Mail: jwing@a	11sp.com
						Initial Review	
						By:	Date:
Storm Water Pol	lution Prevent	ion Plan (SW	PPP) should be	in place at all times	s durina	Approved	<del></del>
		constru	1000		~		Date:

Revised: August 21, 2014 **BUILDING DEPARTMENT** 

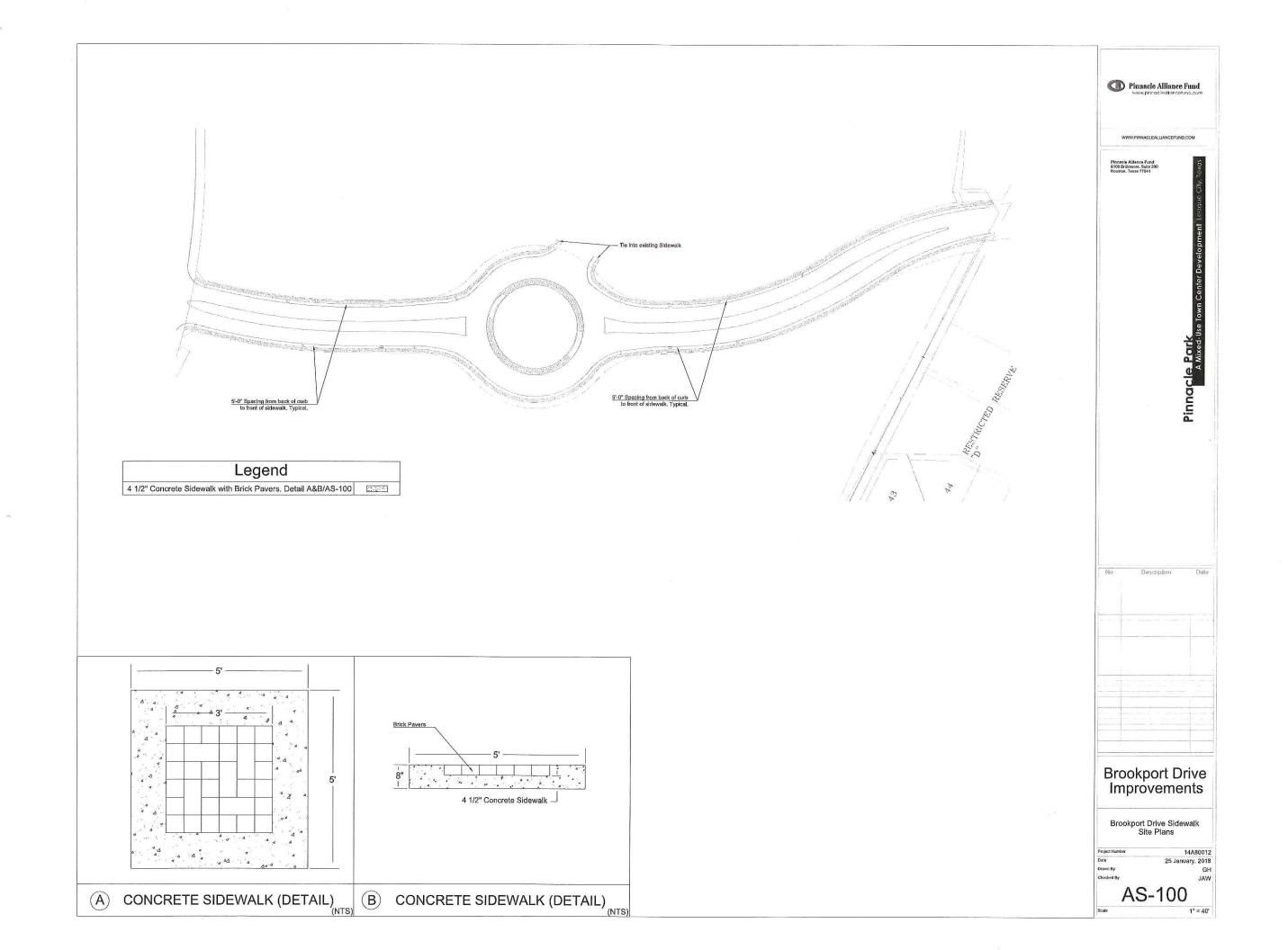


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# Commercial Permit Application

500 W. Walker St. League City, TX 77573 Phone: 281-554-1429 Fax: 281-554-1460

	coo vv. vvalker et. League etty, 1X 77373	1 110116. 201-334-142	9 Tax. 201-334-1400	
Project	Pinnacle Park - Pinnacle Park Drive		Permit No.:	
Address:	Pinnacle Park Drive @ Brookport Drive		Date:	
Address.	League City, Texas 77573		Fee Due:	\$
Estimated Cost of	Construction: \$120,000.00		CRF's Due:	\$
<b>Building Permit</b>				
, ,	Constr	uction cost over:		
		dditional \$1000:		
		Plus :	-	
i e	Sch	eduled Base Fee:		
		Plan Review Fee:		
		Total:	\$	
Electrical Permi				
Licotriour i orini	Scheduled Base Fee:	Cost Per: Quantity:	Subtotal	
	Meter Loop:	200-00-00-00-00-00-00-00-00-00-00-00-00-		
	For each Circuit:	Ψ10.00		
	1 Pole	\$5.00		
	10 00 00 00 00 00 00 00 00 00 00 00 00 0	\$10.00		
		\$15.00		
	Temporary Service Pole (T-Pole):			
	Temporary Cut In (TCI):			
ES	Transformer (per KVA):	\$5.00		
	,	Total:	\$	W
Plumbing Permi		Cost Per: Quantity:	Subtotal	
and the state of t	Scheduled Base Fee:	\$25.00		
	Each fixture, floor drain, or trap:	\$3.00		
	W WAS AND THE CONTRACTOR OF TH	\$10.00		
		Total:	\$	
Gas Permit		Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:			
	Each fixture outlet:	\$5.00		
		Total:	\$	
Mechanical Pern	nit	Cost Per: Quantity:	Subtotal	
		\$25.00		
		\$30.00		
		\$10.00		
	100	\$10.00		es
		Total:	\$	
	Total of al	I permit fees:	\$	





# City of League City Commercial Permit Application

200

		500 W. Wal	ker St. League Cit	y, TX 77573 Phone: 28	31-554-1429	Fax: 281-554-1460		
Project	Pinnacle Park - B	rookport Drive				Permit No.:		
Address:	1502 1/2 Brookport Drive					Date:		
8	League City, Tex			<u> </u>		Fee Due:	1250	
Estimated Cost of		\$ 15,000.00		Annual Control of the		CRF's Due:	\$	
Describe work	to be done:				Tota	al Permit Fee Cost:	\$	
No.	Install lan	dscaping a	t Brookport F	ROW	Sub	tract Plan Review:	\$	
		, ,				F!	•	
	1.20	Division	0.1.11		approved) I	Final Amount Due:	\$	
Legal Description:	Lot:	Block:	Subdivis			Section:	NAME OF STREET	
Type of permit:		0010-0	MECHANICAL		CTRICAL [	(Chec	k all that apply.)	
	PLUMBIN	√G ∐	GAS		OTHER [			
Owner: 101 L	_eague C	ity I-45/	646, L.P.	General Contract	or: A-1	Constructio	n Services	
Street: 6108 Brittmo	ore Road, Suite 20	00		Street: 6108 Brittmoor	e Road, Suit	te 100		
City, State, Zip: Ho		11		City, State, Zip: Hous		77041		
Phone No.: 713-94				Phone No.: 713-975-1	819			
E-Mail: jmeador@a1				E-Mail: jwing@a1sp.co	m			
Subcontractors	: (	Company Nam	ne .		Mas	ter's Name		
Electrical:	W. C.		er i Pa Rigitalia in a series			- Transaction - Transaction		
Plumbing:					7-01110			
Mechanical:	**************************************	2000						
Other:		STATE						
Building Inform	ation:	Total Area:		Flood Zone:	Bas	e Flood Elevation:	-	
		Stories:				Finished Floor:	The second second	
Туре	of Construction					st Adjacent Grade:		
		upant Load:		Eleva	ation Cert.	□ No R	tise Cert.	
Provided Docur		Van		applies) on a digital CD.		NOTICE: I HEREBY CERTIF		
	Survey 🗆		Plot Plan □ -	Energy Cert.	_ II	AND EXAMINED THIS APPI THE SAME TO BE TRUE AN	ND CORRECT. ALL	
F	Gas Riser □		I Layout □	Elec. Load Analysis	II	PROVISIONS OF LAWS AND ORDINANCES GOVERNING THE TYPE OF WORK WILL BE		
	tion Plans		Survey 🗆	TDLR#		COMPLIED WITH, WHETHE THE GRANTING OF A PERI	R SPECIFIED OR NOT.	
				ict permit for this addres	·s.	TO GIVE AUTHORITY TO V	IOLATE OR CANCEL THE	
Private Sewage Permit ☐ Well Permit ☐ Other ☐ PROVISIONS OF ANY OTHER STATE OR LOCAL LAW REGULATING CONSTRUCTION OR THE						RUCTION OR THE		
design to meet 120 n	nph, along with fou on project completion	ndation and fra on, proof of TDI	ming plans sealed b	es an engineered windst by an engineer at the tim ation must be provided t	e of o the	PERFORMANCE OF CONSTRUCTION.  I UNDERSTAND THE LEAGUE CITY  CONSTRUCTION TIMES ARE FROM 7:00AM TO  7:00PM AND CITATIONS WILL BE ISSUED IF NOT  COMPLIANT.		
Additional Depar	tment / Agency	Approvals:		Operations Permit	o	APPIJICANT/S	SIGNATURE	
Development Re			Marshal	Historic District		11/1/	/、	
				County Health District	<u> </u>	Printed Name: Jus	tin Wina	
Additional Comments	s:			- In the state of	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Phone No.: 713-9		
					- 11	E-Mail: jwing@a		
					12	Initial Review		
					11-		Date:	
A		DI :01	200	Si non a company and a series of the series	17		Dale.	
Storm Water Pol	lution Prevention	on Plan (SWI constru		in place at <u>all</u> times		Approved By:	Date:	
		CONSIL	CAROLL		1.1	DV.	Date:	

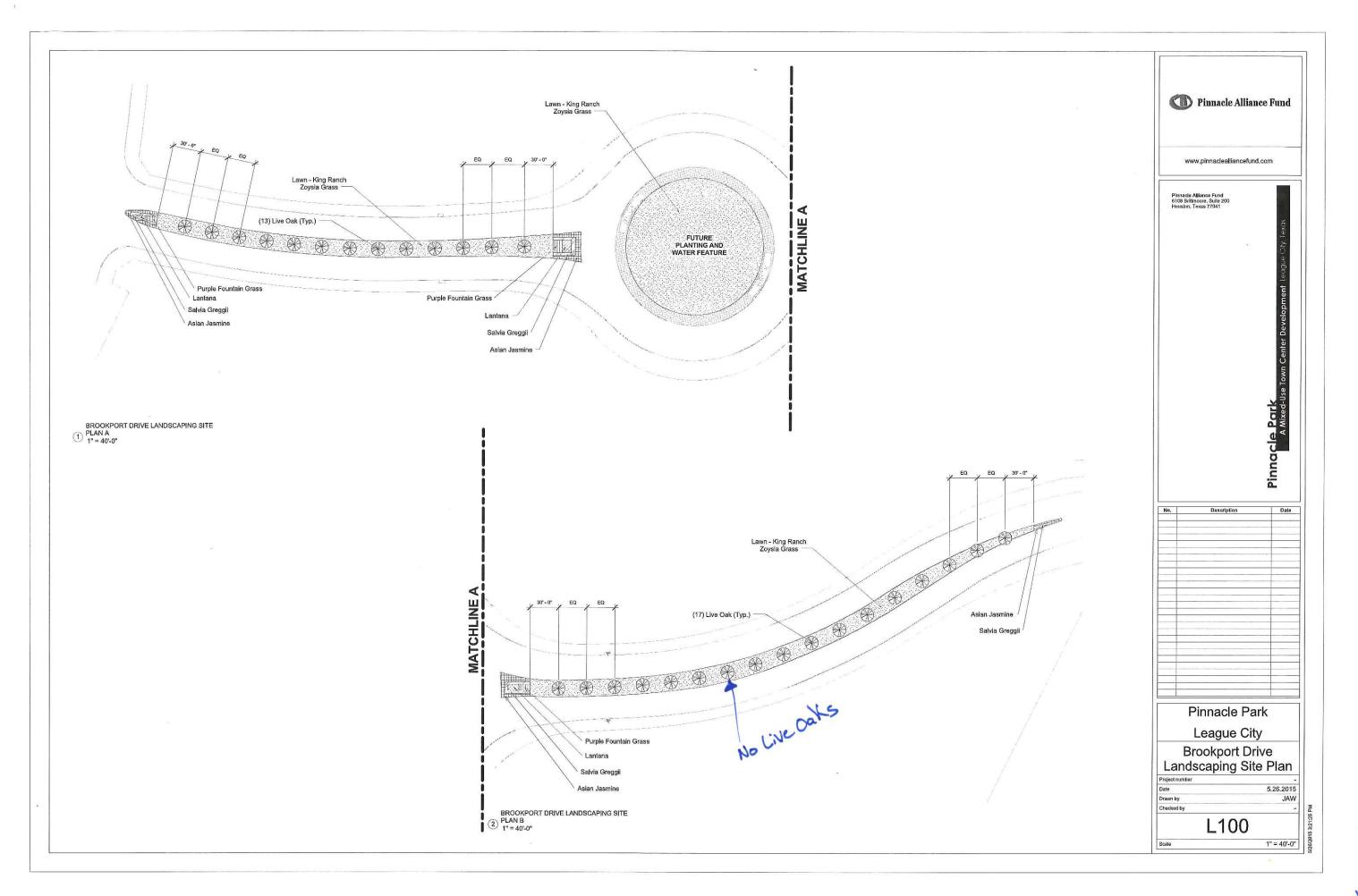
Revised: August 21, 2014 BUILDING DEPARTMENT



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Commercial Permit Application

	500 vv. vvalker St. League City, TX 77573	Phone: 281-554-142	9 Fax: 281-554-1460	
Project	Pinnacle Park - Pinnacle Park Drive		Permit No.:	
Address:	Pinnacle Park Drive @ Brookport Drive		Date:	
E CRASS E S SW	League City, Texas 77573		Fee Due:	\$
Estimated Cost of	Construction: \$15,000.00		CRF's Due:	\$
<b>Building Permit</b>				
	Consi	truction cost over:		
	Per A	Additional \$1000:		
	æ: a	Plus :		
	Sch	neduled Base Fee:		
		Plan Review Fee:		
	y	Total:	\$	
Electrical Permit		Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:			
	Meter Loop:	26		
	For each Circuit:			
	1 Pole	\$5.00		
		\$10.00		
	3 Pole	\$15.00		
	Temporary Service Pole (T-Pole):	\$25.00		
	Temporary Cut In (TCI):	\$25.00		
	Transformer (per KVA):	\$5.00		
		Total:	\$	
Plumbing Permit	3	Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:	\$25.00		
	Each fixture, floor drain, or trap:	\$3.00		
	Sewer (new, replaced, or repaired)	\$10.00		
		Total:	\$	
Gas Permit		Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:	\$25.00		
	Each fixture outlet:	\$5.00		
		Total:	\$	
Mechanical Perm	it	Cost Per: Quantity:	Subtotal	
	Scheduled Base Fee:	\$25.00		
	Each Cooling Unit ≤ 5 ton:	\$30.00		
	Cooling Units over 5 tons (per Ton):	\$10.00		
	Boilers (per 500K Btu of input):	\$10.00		
		Total:	\$	
	<b>—</b>			9
	Total of a	ll permit fees:	\$	







400

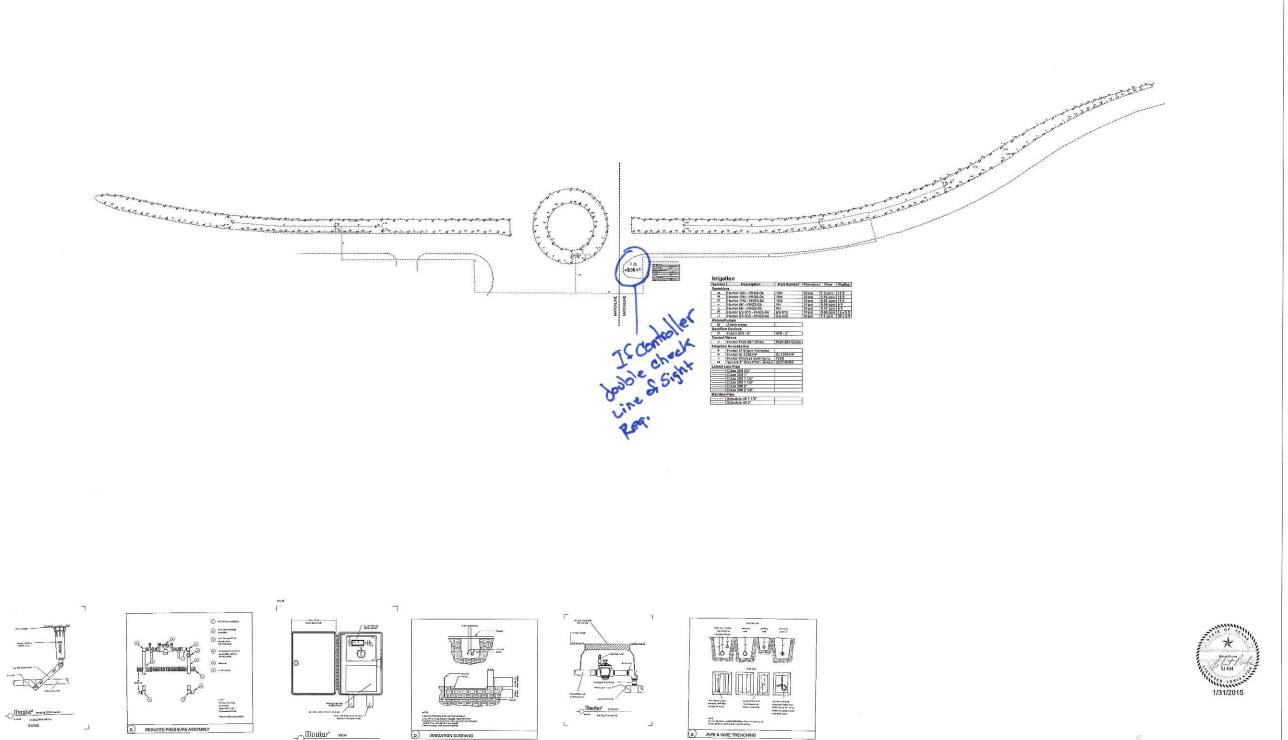
## Irrigation Permit Application

600 W. Walker St. League City, TX 77573 Phone: 281-554-1429 Fax: 281-554-1460

Project Address:	1502 1/2 Brookport Drive			Permi		
Address.				Da	te:	
	League City, TX 77573		***	Fee	1.7.1	S
		į.		CRF's		
Describe work	to be done:			Total	Cost	
		Irrigation at E	Brookport Drive	Total	OOSt.	
		(4				
			144.40			
Legal Description:	Lot: Bl	ock: Section:	Subdivision			
Owner: 101	League City	I-45/646 LP	Irrigation Contractor: A	-1 Cons	struction	n Services
	ore Road, Suite 200		Street: 6108 Brittmoore Road,	Suite 100		
City, State, Zip: Ho	uston, Texas 77041		City, State, Zip: Houston, Texa			
Phone: 713-944-22	24		Phone: 713-975-1819			300
E-Mail: jmeador@a1	sp.com		E-Mail: jwing@a1sp.com			
SUB-CONTRAC	TORS: Company	/ Name	Master's Nar	ne	Regi	stration#
Electrical: MV Elec	tric, Inc.		Clay Fife		177313	
Plumbing:						
Other: Montez I	rrigation and Landscaping		Juan Montez		N/A	
Provided Doc	uments:	Submit 1 Digita	al Set			THAT I HAVE READ
Survey	□ Site F	Plan 🔳 Zone /He	ead Layout			ATION AND KNOW CORRECT. ALL
Flow Calculation	• O	ther			OF LAWS AND O THE TYPE OF W	
	attach a copy of the approved	l County Health District pern	nit for this address:	COMPLIED WIT	TH, WHETHER	SPECIFIED OR NOT. DOES NOT PRESUME
Well Permit				TO GIVE AUTH	IORITY TO VIOL	ATE OR CANCEL THE
nspection Requi	rements:			LAW REGULAT	TING CONSTRU	
	(2a-0) Xi Afri				CE OF CONSTRU	
See Irrigation S.O.P.	For inspection procedures			APP	CANTS	GNATURE
inal Inopostion : Irria	otor or their reserve and the	90.1		11	M	•
mai mspection . img	ator or their representative	will be on site to operate s	system at final inspection.	Printed Na	me: Justin	Ving
			-	Grand Charles	713-975-18	319
				Fax No:71		
				E-IVIAII: jwin	g@a1sp.con	1
rigation Permit			Cost Per: Quantity:	Sub. Total		- 34
		Scheduled Ba		\$25.00		
		Backflow Pro		\$25.00		
			er Head: \$0.50 196	\$98.00		
vg.			Valves: \$3.00 9	\$27.00		
					Total: \$1	75.00

Initial Rev	riew
Ву:	Date:
Approved	
Ву:	Date:

**BUILDING DEPARTMENT** Revised: May 1, 2014



CJ'S Yardworks 1443 Katyflewellen Rd Katy, Texas 77494

SHEET DESCRIPTION: Irrigation

PROJECT:
Brookport Road

REVISIONS:

DATE: 1/31/2015 JOB NUMBER: 1312015 DRAWN BY:

DRAWN BY:
Robert Proske
CHECKED BY:
CRP

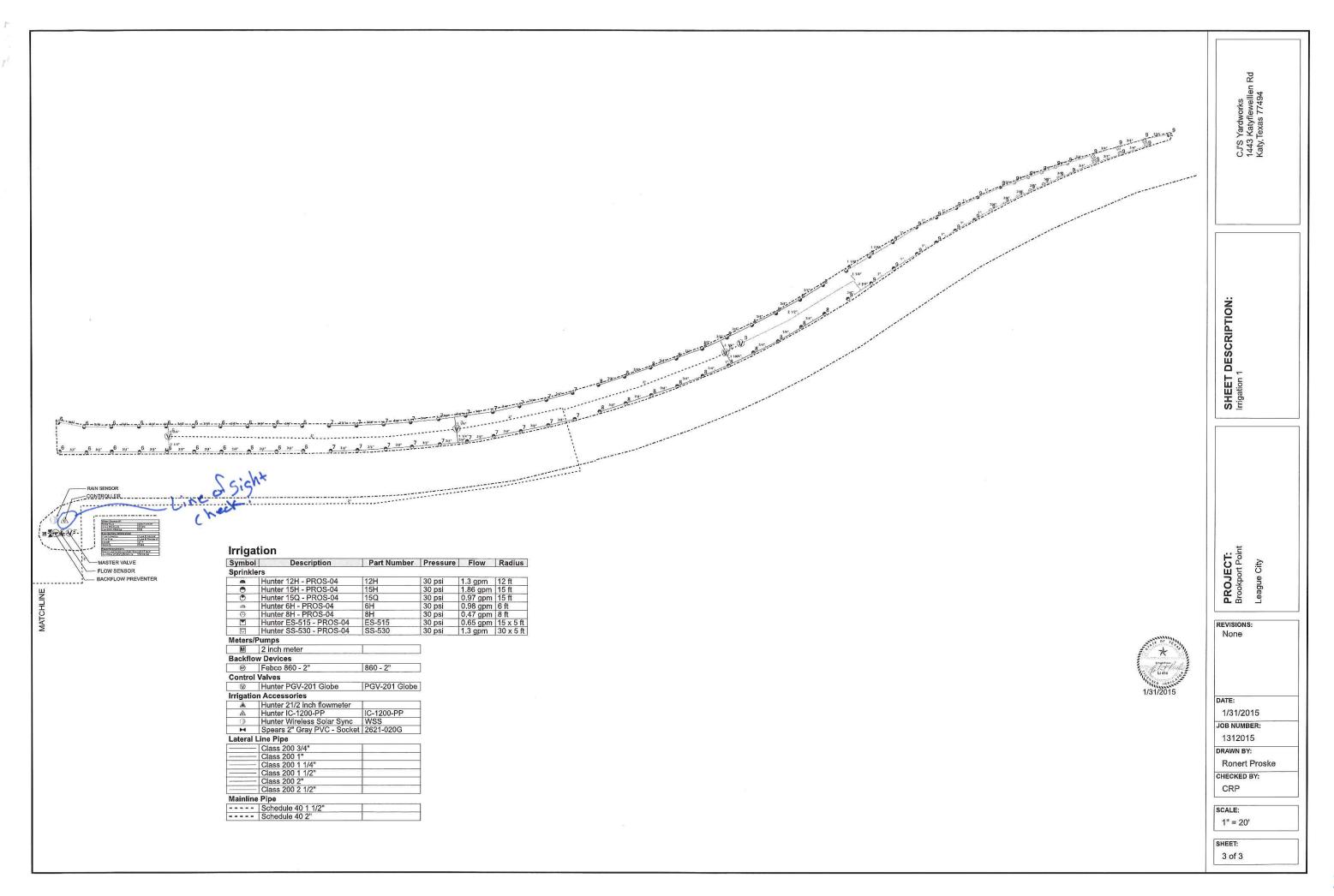
SCALE: 1" = 50'

SHEET:

1 of 3

X

CJ'S Yardworks 1443 Katyflewellen Rd Katy, Texas 77494 SHEET DESCRIPTION: Irrigation 2 PROJECT: Brookport Point League City MATCHLINE REVISIONS: None DATE: 1/31/2015 JOB NUMBER: 1312015 DRAWN BY: Robert Proske CHECKED BY: CRP SCALE: 1" = 20' SHEET: 2 of 3



×