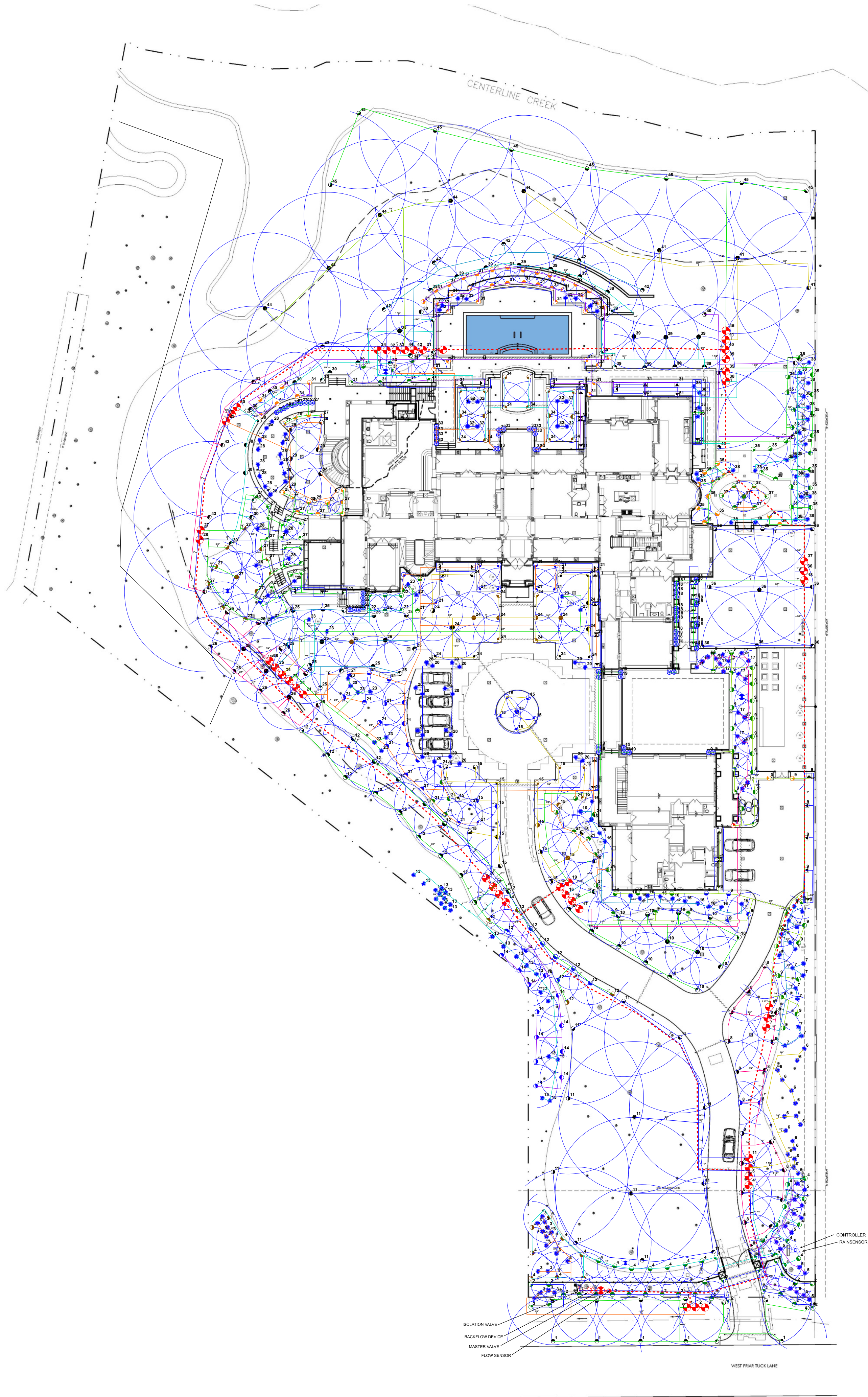




Sprinkler Zone Data

Zone #	Total Area	Total Flow	Precip Rate
1	2710.91 Sq/Ft	13.78 gpm	0.49 in/hr
2	1062.03 Sq/Ft	11.18 gpm	1.01 in/hr
3	5.46 Sq/Ft	13.51 gpm	238.16 in/hr
4	1748.22 Sq/Ft	19.63 gpm	1.08 in/hr
8	2238.41 Sq/Ft	31.17 gpm	1.34 in/hr
9	2667.86 Sq/Ft	30.51 gpm	1.1 in/hr
10	2234.84 Sq/Ft	31.44 gpm	1.35 in/hr
11	8342.85 Sq/Ft	24.13 gpm	0.28 in/hr
12	2858.76 Sq/Ft	37.55 gpm	1.26 in/hr
14	984.91 Sq/Ft	10.27 gpm	1 in/hr
15	2475.29 Sq/Ft	30.81 gpm	1.2 in/hr
18	232.36 Sq/Ft	15.03 gpm	6.23 in/hr
19	33.62 Sq/Ft	4.65 gpm	13.32 in/hr
21	2742.75 Sq/Ft	32.01 gpm	1.12 in/hr
22	151.13 Sq/Ft	5.7 gpm	3.63 in/hr
24	2112.88 Sq/Ft	28.86 gpm	1.32 in/hr
25	1901.45 Sq/Ft	28.48 gpm	1.44 in/hr
26	1928.59 Sq/Ft	27.75 gpm	1.39 in/hr
27	1926.97 Sq/Ft	34.84 gpm	1.74 in/hr
29	654.51 Sq/Ft	10.15 gpm	1.49 in/hr
30	2939.1 Sq/Ft	30.5 gpm	1 in/hr
31	1956.3 Sq/Ft	34.53 gpm	1.7 in/hr
33	50.64 Sq/Ft	7.23 gpm	13.76 in/hr
34	750.79 Sq/Ft	13 gpm	1.67 in/hr
35	1523.49 Sq/Ft	24.89 gpm	1.57 in/hr
36	2647.2 Sq/Ft	19.57 gpm	0.71 in/hr
37	191.64 Sq/Ft	7.25 gpm	3.64 in/hr
39	3223.01 Sq/Ft	33.28 gpm	0.99 in/hr
40	4096.65 Sq/Ft	9.29 gpm	0.22 in/hr
41	10591.21 Sq/Ft	11.34 gpm	0.1 in/hr
42	6999.14 Sq/Ft	10.35 gpm	0.14 in/hr
43	7270.28 Sq/Ft	10.35 gpm	0.14 in/hr
44	10712.57 Sq/Ft	12.36 gpm	0.11 in/hr
45	8562.66 Sq/Ft	15.5 gpm	0.17 in/hr

Irrigation

Quantity	Symbol	Description	Part Number	Pressure	Flow	Radius
Sprinklers						
215	●	Intritol Systems 533-90	533	30 psi	1.93 gpm	0 ft
1	●	Rain Bird 10F - 1804	10F	30 psi	1.58 gpm	10 ft
9	●	Rain Bird 10H - 1804	10H	30 psi	0.79 gpm	10 ft
33	●	Rain Bird 10H - 1812	10H	30 psi	0.79 gpm	10 ft
17	●	Rain Bird 10Q - 1812	10Q	30 psi	0.39 gpm	10 ft
2	●	Rain Bird 10-VAN 180 - 1804	10-VAN	30 psi	1.45 gpm	10 ft
5	●	Rain Bird 10-VAN 90 - 1804	10-VAN	30 psi	0.75 gpm	10 ft
4	●	Rain Bird 12F - 1804	12F	30 psi	2.6 gpm	12 ft
1	●	Rain Bird 12F - 1812	12F	30 psi	2.6 gpm	12 ft
12	●	Rain Bird 12H - 1804	12H	30 psi	1.3 gpm	12 ft
15	●	Rain Bird 12H - 1812	12H	30 psi	1.3 gpm	12 ft
22	●	Rain Bird 12Q - 1804	12Q	30 psi	0.65 gpm	12 ft
1	●	Rain Bird 12Q - 1812	12Q	30 psi	0.65 gpm	12 ft
4	●	Rain Bird 15CST - 1812	15CST	30 psi	1.21 gpm	30 x 4 ft
4	●	Rain Bird 15EST - 1804	15EST	30 psi	0.61 gpm	15 x 4 ft
24	●	Rain Bird 15EST - 1812	15EST	30 psi	0.61 gpm	15 x 4 ft
12	●	Rain Bird 15F - 1804	15F	30 psi	3.7 gpm	15 ft
90	●	Rain Bird 15H - 1804	15H	30 psi	1.85 gpm	15 ft
33	●	Rain Bird 15Q - 1804	15Q	30 psi	0.92 gpm	15 ft
4	●	Rain Bird 15SST - 1804	15SST	30 psi	1.21 gpm	30 x 4 ft
6	●	Rain Bird 15SST - 1812	15SST	30 psi	1.21 gpm	30 x 4 ft
3	●	Rain Bird 15-VAN 180 - 1804	15-VAN	30 psi	1.85 gpm	15 ft
2	●	Rain Bird 15-VAN 90 - 1804	15-VAN	30 psi	0.92 gpm	15 ft
5	●	Rain Bird 3500 Series 1.0 - 3504-PC	1.0	45 psi	1.06 gpm	21 ft
8	●	Rain Bird 3500 Series 1.0 - 3504-PC	1.0	45 psi	1.06 gpm	21 ft
5	●	Rain Bird 3500 Series 2.0 - 3504-PC	2.0	45 psi	1.93 gpm	27 ft
1	●	Rain Bird 3500 Series 4.0 - 3504-PC	4.0	45 psi	4.13 gpm	35 ft
7	●	Rain Bird 5000 Series 1.5 - 5004-PL-PC	1.5	45 psi	1.54 gpm	35 ft
27	●	Rain Bird 5000 Series 2.0 - 5004-PL-PC	2.0	45 psi	2.07 gpm	37 ft
8	●	Rain Bird 5000 Series 2.5 - 5004-PL-PC	2.5	45 psi	2.51 gpm	37 ft
7	●	Rain Bird 5000 Series 3.0 - 5004-PL-PC	3.0	45 psi	3.09 gpm	40 ft
1	●	Rain Bird 5Q - 1804	5Q	30 psi	0.1 gpm	5 ft
40	●	Rain Bird 6-VAN 180 - 1812	6-VAN	30 psi	0.6 gpm	6 ft
2	●	Rain Bird 6-VAN 90 - 1804	6-VAN	30 psi	0.37 gpm	6 ft
26	●	Rain Bird 6-VAN 90 - 1812	6-VAN	30 psi	0.37 gpm	6 ft
1	●	Rain Bird 8F - 1804	8F	30 psi	1.05 gpm	8 ft
101	●	Rain Bird 8H - 1812	8H	30 psi	0.52 gpm	8 ft
38	●	Rain Bird 8Q - 1812	8Q	30 psi	0.26 gpm	8 ft
4	●	Rain Bird 8-VAN 180 - 1804	8-VAN	30 psi	1.19 gpm	8 ft
7	●	Rain Bird 8-VAN 180 - 1812	8-VAN	30 psi	1.19 gpm	8 ft
2	●	Rain Bird 8-VAN 90 - 1804	8-VAN	30 psi	0.72 gpm	8 ft
2	●	Rain Bird 8-VAN 90 - 1812	8-VAN	30 psi	0.72 gpm	8 ft
64	●	Rain Bird UXB-360-SPYK	UXB-360-SPYK	20 psi	0.52 gpm	1.1 ft

Meters/Pumps

1	M	2 inch meter	
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Backflow Devices

1	F	Febco 765 - 1 1/2"	765 - 1 1/2"
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Control Valves

38	R	Rain Bird 100-PGA Angle	100-PGA
8	R	Rain Bird 150-PGA Globe	150-PGA

Irrigation Accessories

4	N	Nibco 2" Isolation valve	
4	R	Rain Bird 44RC	44RC
1	R	Rain Bird ESP-LXMEF (48 Stations)	ESP12LXMEF - 3 ESPLXMSM12 modules
1	R	Rain Bird FS200P	FS200P

Lateral Line Pipe

8751 ft	Class 200 3/4"	
1208 ft	Class 200 1"	
431 ft	Class 200 1 1/4"	
874 ft	Class 200 1 1/2"	
383 ft	Class 200 2"	

Mainline Pipe

1355 ft	Class 200 2"	0
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Water Source #1

Meter Size	2 inch meter
Static Pressure	50 psi
Elevation Change	0 ft

Service Line Information

Pipe Category	Poly 160
Pipe Size	Poly 160 2"
Length	0 ft
Velocity	5 fps

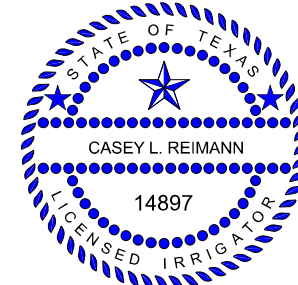
Recommendations

Maximum Recommended Flow	52.29 gpm
Available Working Pressure	45 psi

The maximum velocity of the PVC water piping will not exceed 5 linear feet per second. Plans and instruction manuals will be kept on site during the installation of the system. Proposed watering schedule will be programmed into controller. There will be a permanent sticker on controller. Wiring used to connect controller is U.L. approved. Irrigation in Texas is regulated by the Texas Commission on Environmental Quality (TCEQ) (MC-178), PO Box 13087, Austin, Texas 78711-3087. TCEQ's website is: www.tceq.state.tx.us. Backflow preventer will need to be tested yearly.



281 341-0499



Casey Reimann
05/12/2017

SHEET DESCRIPTION:
IRRIGATION DESIGN

PROJECT:
405 W. Friar Tuck Lane
Houston, TX 77024

REVISIONS:
None

DATE:
05/12/2017

JOB NUMBER:
D1-05122017

DRAWN BY:
CASEY REIMANN

CHECKED BY:
CLR

SCALE:
1"-30'

SHEET:
1 of 1

