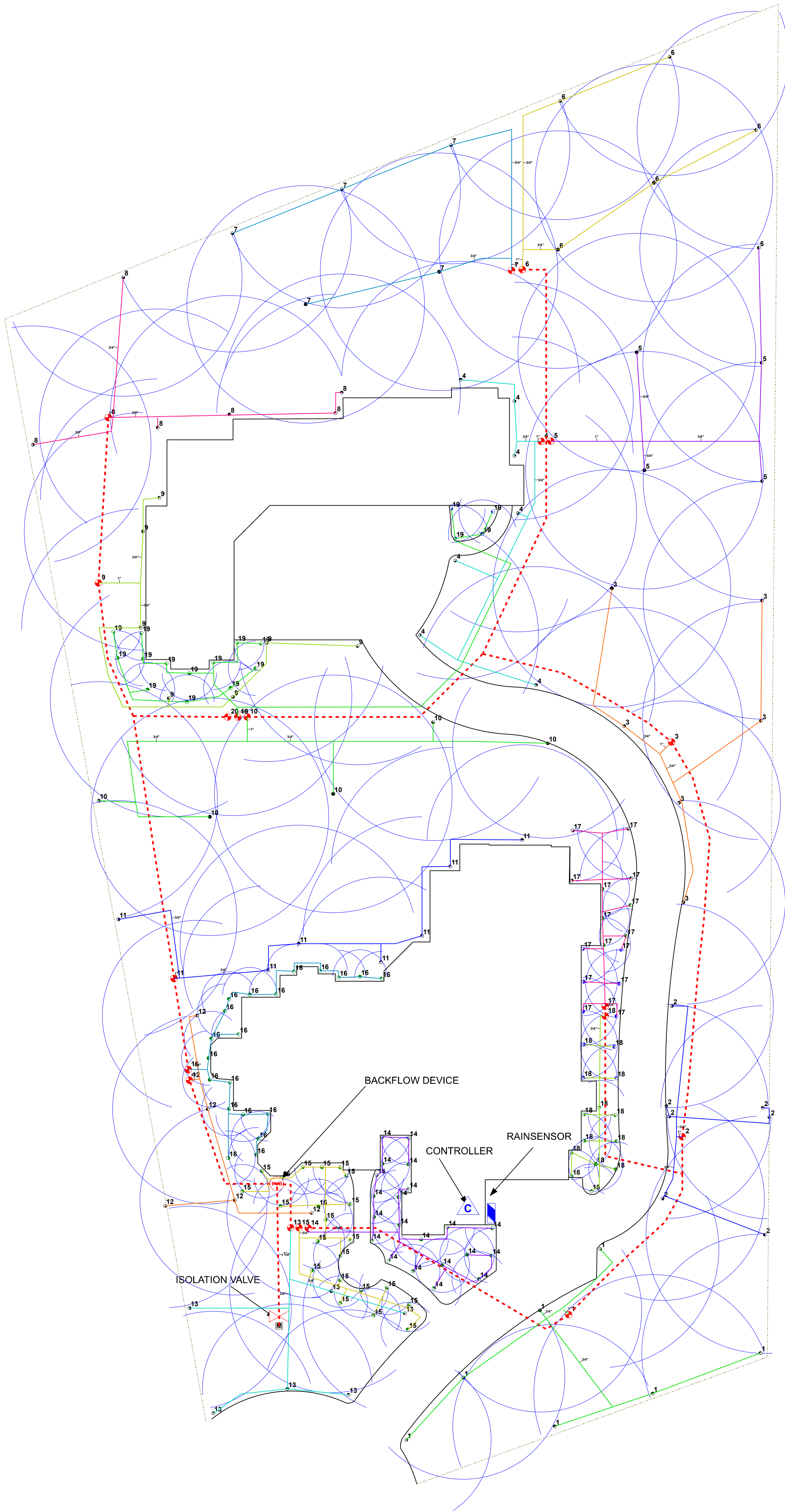




Run Set: 1	Run Set: 2	Run Set: 3	Run Set: 4	Run Set: 5	Run Set: 6	Run Set: 7
Water Source #1	Water Source #1	Water Source #1	Water Source #1	Water Source #1	Water Source #1	Water Source #1
Type Meter	Type Meter	Type Meter	Type Meter	Type Meter	Type Meter	Type Meter
Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi
Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi
Meter Loss 0.934 psi	Meter Loss 0.849 psi	Meter Loss 1.016 psi	Meter Loss 0.834 psi	Meter Loss 0.852 psi	Meter Loss 0.852 psi	Meter Loss 0.852 psi
Mainline Components	Mainline Components	Mainline Components	Mainline Components	Mainline Components	Mainline Components	Mainline Components
Backflow Loss 3.645 psi	Backflow Loss 3.618 psi	Backflow Loss 3.672 psi	Backflow Loss 3.645 psi	Backflow Loss 3.619 psi	Backflow Loss 3.619 psi	Backflow Loss 3.619 psi
Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi
Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi
Zone 1 @ 12.9 gpm	Zone 2 @ 12.37 gpm	Zone 3 @ 13.44 gpm	Zone 4 @ 12.9 gpm	Zone 5 @ 12.39 gpm	Zone 6 @ 12.39 gpm	Zone 7 @ 12.39 gpm
Mainline Loss 0.65 psi	Mainline Loss 0.71 psi	Mainline Loss 0.92 psi	Mainline Loss 1.31 psi	Mainline Loss 1.21 psi	Mainline Loss 1.56 psi	Mainline Loss 1.58 psi
Valve Loss 1.726 psi	Valve Loss 1.758 psi	Valve Loss 1.694 psi	Valve Loss 1.726 psi	Valve Loss 1.757 psi	Valve Loss 1.757 psi	Valve Loss 1.757 psi
Lateral Loss 0.582 psi	Lateral Loss 0.297 psi	Lateral Loss 0.748 psi	Lateral Loss 1.062 psi	Lateral Loss 1.409 psi	Lateral Loss 0.94 psi	Lateral Loss 1.447 psi
Fittings Loss 0.123 psi	Fittings Loss 0.101 psi	Fittings Loss 0.167 psi	Fittings Loss 0.237 psi	Fittings Loss 0.262 psi	Fittings Loss 0.25 psi	Fittings Loss 0.303 psi
Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi
Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi
Total Design Pressure 52.54 psi	Total Design Pressure 52.233 psi	Total Design Pressure 53.053 psi	Total Design Pressure 53.673 psi	Total Design Pressure 53.849 psi	Total Design Pressure 53.729 psi	Total Design Pressure 54.256 psi
Residual Pressure 7.46 psi	Residual Pressure 7.767 psi	Residual Pressure 6.947 psi	Residual Pressure 6.327 psi	Residual Pressure 6.151 psi	Residual Pressure 6.271 psi	Residual Pressure 5.744 psi

Run Set: 8	Run Set: 9	Run Set: 10	Run Set: 11	Run Set: 12	Run Set: 13	Run Set: 14
Water Source #1	Water Source #1	Water Source #1	Water Source #1	Water Source #1	Water Source #1	Water Source #1
Type Meter	Type Meter	Type Meter	Type Meter	Type Meter	Type Meter	Type Meter
Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi
Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi
Meter Loss 0.777 psi	Meter Loss 0.849 psi	Meter Loss 0.852 psi	Meter Loss 0.849 psi	Meter Loss 0.493 psi	Meter Loss 0.649 psi	Meter Loss 0.542 psi
Mainline Components	Mainline Components	Mainline Components	Mainline Components	Mainline Components	Mainline Components	Mainline Components
Backflow Loss 3.594 psi	Backflow Loss 3.618 psi	Backflow Loss 3.619 psi	Backflow Loss 3.618 psi	Backflow Loss 3.429 psi	Backflow Loss 3.541 psi	Backflow Loss 3.49 psi
Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi
Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi
Zone 8 @ 11.89 gpm	Zone 9 @ 12.37 gpm	Zone 10 @ 12.39 gpm	Zone 11 @ 12.37 gpm	Zone 12 @ 9.29 gpm	Zone 13 @ 10.83 gpm	Zone 14 @ 9.9 gpm
Mainline Loss 1.16 psi	Mainline Loss 0.94 psi	Mainline Loss 0.73 psi	Mainline Loss 0.54 psi	Mainline Loss 0.27 psi	Mainline Loss 0.27 psi	Mainline Loss 0.24 psi
Valve Loss 1.787 psi	Valve Loss 1.758 psi	Valve Loss 1.757 psi	Valve Loss 1.758 psi	Valve Loss 1.85 psi	Valve Loss 1.85 psi	Valve Loss 1.9 psi
Lateral Loss 0.921 psi	Lateral Loss 2.255 psi	Lateral Loss 1.065 psi	Lateral Loss 2.681 psi	Lateral Loss 0.718 psi	Lateral Loss 0.762 psi	Lateral Loss 1.212 psi
Fittings Loss 0.208 psi	Fittings Loss 0.32 psi	Fittings Loss 0.18 psi	Fittings Loss 0.322 psi	Fittings Loss 0.088 psi	Fittings Loss 0.103 psi	Fittings Loss 0.145 psi
Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi
Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 45 psi	Sprinkler Requirement 30 psi
Total Design Pressure 53.234 psi	Total Design Pressure 54.421 psi	Total Design Pressure 53.024 psi	Total Design Pressure 54.443 psi	Total Design Pressure 51.805 psi	Total Design Pressure 52.069 psi	Total Design Pressure 37.383 psi
Residual Pressure 6.766 psi	Residual Pressure 5.579 psi	Residual Pressure 6.976 psi	Residual Pressure 5.557 psi	Residual Pressure 8.195 psi	Residual Pressure 7.931 psi	Residual Pressure 22.617 psi

Run Set: 15	Run Set: 16	Run Set: 17	Run Set: 18	Run Set: 19
Water Source #1	Water Source #1	Water Source #1	Water Source #1	Water Source #1
Type Meter	Type Meter	Type Meter	Type Meter	Type Meter
Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi	Static Pressure 60 psi
Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi	Service Line 0 psi
Meter Loss 0.598 psi	Meter Loss 0.416 psi	Meter Loss 0.576 psi	Meter Loss 0.306 psi	Meter Loss 0.34 psi
Mainline Components	Mainline Components	Mainline Components	Mainline Components	Mainline Components
Backflow Loss 3.52 psi	Backflow Loss 3.332 psi	Backflow Loss 3.511 psi	Backflow Loss 3.153 psi	Backflow Loss 3.216 psi
Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi	Master Valve Loss 0 psi
Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi	Filter Loss 0 psi
Zone 15 @ 10.4 gpm	Zone 16 @ 8.32 gpm	Zone 17 @ 10.22 gpm	Zone 18 @ 6.53 gpm	Zone 19 @ 7.16 gpm
Mainline Loss 0.25 psi	Mainline Loss 0.22 psi	Mainline Loss 0.78 psi	Mainline Loss 0.34 psi	Mainline Loss 0.26 psi
Valve Loss 1.876 psi	Valve Loss 1.9 psi	Valve Loss 1.887 psi	Valve Loss 1.9 psi	Valve Loss 1.9 psi
Lateral Loss 0.364 psi	Lateral Loss 0.399 psi	Lateral Loss 0.728 psi	Lateral Loss 0.467 psi	Lateral Loss 0.334 psi
Fittings Loss 0.062 psi	Fittings Loss 0.062 psi	Fittings Loss 0.151 psi	Fittings Loss 0.08 psi	Fittings Loss 0.06 psi
Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi	Elevation 0 psi
Sprinkler Requirement 30 psi	Sprinkler Requirement 30 psi	Sprinkler Requirement 30 psi	Sprinkler Requirement 30 psi	Sprinkler Requirement 30 psi
Total Design Pressure 36.612 psi	Total Design Pressure 36.268 psi	Total Design Pressure 37.484 psi	Total Design Pressure 36.162 psi	Total Design Pressure 36.053 psi
Residual Pressure 23.388 psi	Residual Pressure 23.732 psi	Residual Pressure 22.516 psi	Residual Pressure 23.838 psi	Residual Pressure 23.947 psi

Irrigation

Quantity	Symbol	Description	Part Number	Pressure	Flow	Radius
Sprinklers						
7	●	Rain Bird 10H - 1804	10H	30 psi	0.79 gpm	10 ft
7	●	Rain Bird 10Q - 1804	10Q	30 psi	0.39 gpm	10 ft
4	●	Rain Bird 15Q - 1804	15Q	30 psi	0.92 gpm	15 ft
24	●	Rain Bird 5000 Series 1.5 - 5004-PL-PC	1.5	45 psi	1.54 gpm	35 ft
45	●	Rain Bird 5000 Series 2.0 - 5004-PL-PC	2.0	45 psi	2.07 gpm	37 ft
9	●	Rain Bird 5000 Series 3.0 - 5004-PL-FC	3.0	45 psi	3.09 gpm	40 ft
3	●	Rain Bird 8F - 1804	8F	30 psi	1.05 gpm	8 ft
56	●	Rain Bird 8H - 1804	8H	30 psi	0.52 gpm	8 ft
32	●	Rain Bird 8Q - 1804	8Q	30 psi	0.26 gpm	8 ft

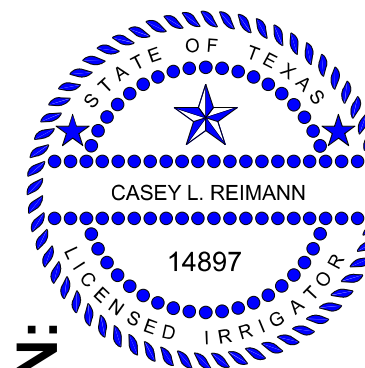
Meters/Pumps		
1	Ⓜ	1 inch meter
Backflow Devices		
1	Ⓜ	Febco 765 - 1"
Control Valves		
20	●	Hunter PGV-100G-S
Irrigation Accessories		
1	●	Hunter MINI-CLIK
1	●	Nibco 1 1/4" isolation valve
1	●	Rain Bird ESP-4Mei (22 Stations)
Lateral Line Pipe		
3134 ft	—	Class 200 3/4"
85 ft	—	Class 200 1"
Mainline Pipe		
952 ft	---	Class 200 1 1/4"
Wire		
871 ft	—	14 Gauge - Common
4865 ft	—	16 Gauge - Control

Water Source #1	
Meter Size	1 inch meter
Static Pressure	60 psi
Elevation Change	0 ft
Service Line Information	
Pipe Category	Poly 160
Pipe Size	Poly 160 1"
Length	0 ft
Velocity	5 fps
Recommendations	
Maximum Recommended Flow	13.47 gpm
Available Working Pressure	54 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.
Back-flow preventer will need to be tested yearly.



281 341-0499



SHEET DESCRIPTION:
IRRIGATION DESIGN

Casey Reimann
04/15/2015

PROJECT:
WESTON LAKES
FULSHEAR, TX

REVISIONS:
None

DATE:
04/15/2015

JOB NUMBER:
D1-04152015

DRAWN BY:
CASEY REIMANN

CHECKED BY:
CLR

SCALE:
1" = 30'

SHEET:
1 of 1