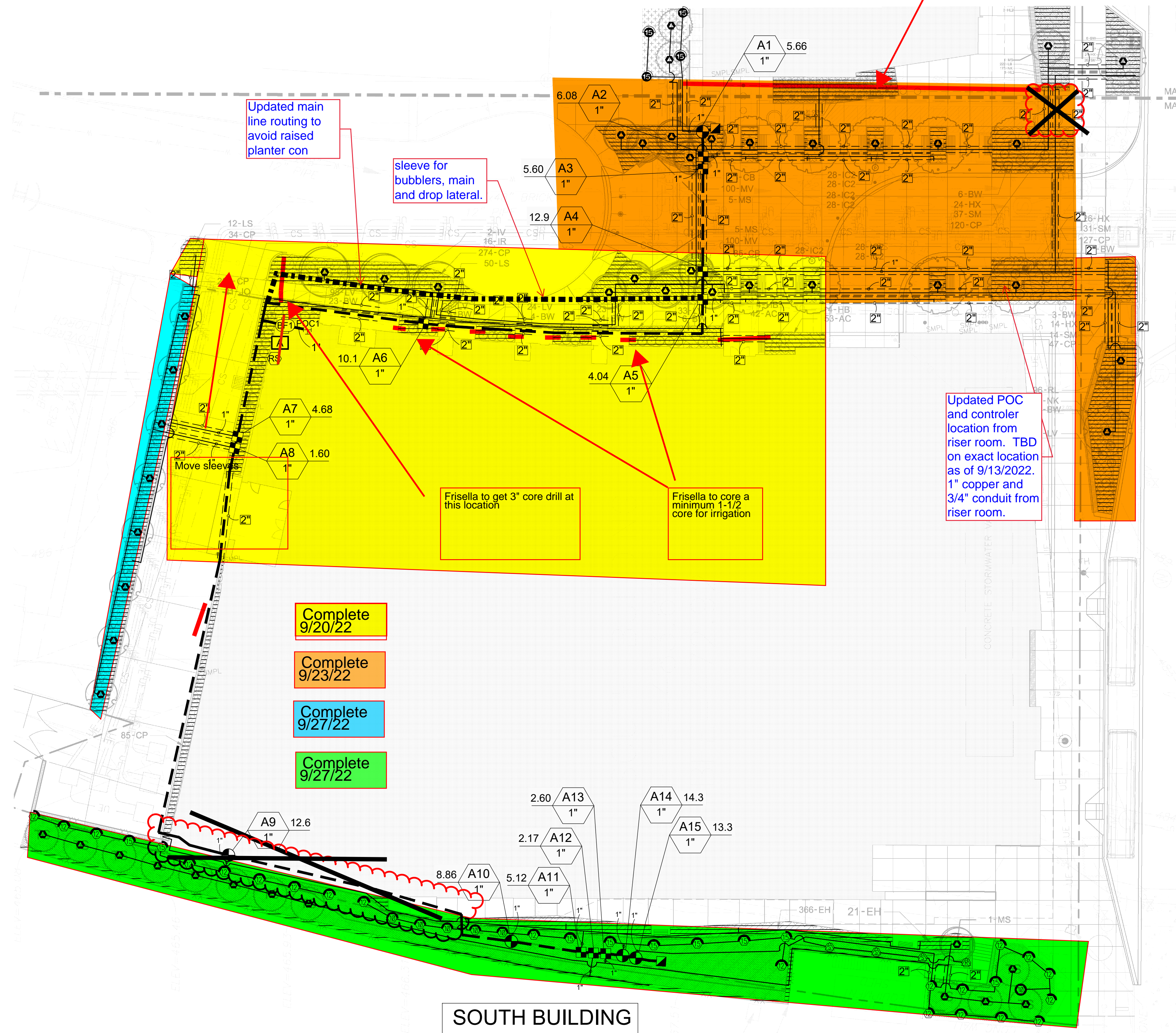


SCALE: 1" = 20' - 0"



### IRRIGATION SCHEDULE SOUTH BUILDING

SYMBOL	MANUFACTURER/MODEL
	HUNTER PROS-04 5' STRIP SPRAY
	HUNTER PROS-04 10' RADIUS
	HUNTER PROS-04 12' RADIUS
	HUNTER PROS-04 15' RADIUS
	HUNTER PROS-12 15' RADIUS
SYMBOL	MANUFACTURER/MODEL
	HUNTER PCZ-101-40 1"
	NETAFIM BLANK DRIP RING
	AREA TO RECEIVE DRIPLINE NETAFIM BLANK DRIP TUBING
SYMBOL	MANUFACTURER/MODEL
	HUNTER PGV-101G 1"
	HUNTER HQ-44RC 1"
	FEBCO 825Y 1"
	HUNTER PRO-C CONTROLLER
	HUNTER RAIN-CLICK
	POINT OF CONNECTION 1"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1"
	PIPE SLEEVE: PVC SCHEDULE 40 2"

### CRITICAL ANALYSIS

Generated: 2022-05-31 12:57

P.O.C. NUMBER: 01  
Water Source Information:

FLOW AVAILABLE  
Custom Max Flow: 15 GPM  
Flow Available: 15 GPM

PRESSURE AVAILABLE  
Static Pressure at POC: 70.00 PSI  
Pressure Available: 70.00 PSI

DESIGN ANALYSIS  
Maximum Station Flow: 14.82 GPM  
Flow Available at POC: 15 GPM  
Residual Flow Available: 0.18 GPM

Critical Station: A4  
Design Pressure: 30 PSI  
Friction Loss: 2.59 PSI  
Fittings Loss: 0.26 PSI  
Elevation Loss: 0 PSI  
Loss through Valve: 15.88 PSI  
Pressure Req. at Critical Station: 48.74 PSI  
Loss for Fittings: 0.38 PSI  
Loss for Main Line: 3.77 PSI  
Loss for POC to Valve Elevation: 0 PSI  
Loss for Backflow: 11.81 PSI  
Critical Station Pressure at POC: 64.7 PSI  
Pressure Available: 70 PSI  
Residual Pressure Available: 5.3 PSI

### WATERING SCHEDULE - SOUTH BUILDING

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
A1	HUNTER PGV-101G	SHRUB SPRAY	1.14 in/h	1	53	300.0	60.0
A2	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	571.5	114.3
A3	HUNTER PCZ-101-40	DRIP EMITTER	0.38 in/h	1	157	879.2	175.8
A4	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	1,216	243.3
A5	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	379.8	76.0
A6	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	946.6	189.3
A7	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	439.9	88.0
A8	HUNTER PCZ-101-40	DRIP EMITTER	0.38 in/h	1	157	251.2	50.2
A9	HUNTER PGV-101G	TURF SPRAY	1.0 in/h				
A10	HUNTER PGV-101G	TURF SPRAY	0.94 in/h				
A11	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	481.3	96.3
A12	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	204.0	40.8
A13	HUNTER PCZ-101-40	DRIP EMITTER	0.38 in/h	1	157	408.2	81.6
A14	HUNTER PGV-101G	TURF SPRAY	1.05 in/h				
A15	HUNTER PGV-101G	TURF SPRAY	1.75 in/h				
TOTALS:					1,182	6,078	1,216

### VALVE SCHEDULE - SOUTH BUILDING

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	PSI	PSI @ POC	PRECIP
A1	HUNTER PGV-101G	1"	SHRUB SPRAY	5.66	30	32.04	45.04	1.14 in/h
A2	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	6.08	30	36.18	49.35	0.64 in/h
A3	HUNTER PCZ-101-40	1"	DRIP EMITTER	5.60	30	35.68	48.59	0.38 in/h
A4	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	12.94	30	48.73	64.7	0.64 in/h
A5	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	4.04	30	35.02	47.28	0.64 in/h
A6	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	10.07	30	40.3	53.71	0.64 in/h
A7	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	4.68	30	35.21	47.2	0.64 in/h
A8	HUNTER PCZ-101-40	1"	DRIP EMITTER	1.60	30	35.02	46.85	0.38 in/h
A9	HUNTER PGV-101G	1"	TURF SPRAY	12.60	30	32.07		1.0 in/h
A10	HUNTER PGV-101G	1"	TURF SPRAY	8.86	30	32.03		0.94 in/h
A11	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	5.12	30	35.19	48.36	0.64 in/h
A12	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	2.17	30	35.02	47.1	0.64 in/h
A13	HUNTER PCZ-101-40	1"	DRIP EMITTER	2.60	30	35.06	47.26	0.38 in/h
A14	HUNTER PGV-101G	1"	TURF SPRAY	14.26	30	32.53		1.05 in/h
A15	HUNTER PGV-101G	1"	TURF SPRAY	13.33	30	34.69		1.75 in/h



5102 N Garfield Ave  
Loveland, CO 80538  
Phone 970.667.6605  
Fax 970.667.3525  
<http://projectservices.siteone.com>  
800.347.4272

Project Name:  
**DeBALVIERE TOD SOUTH BUILDING**  
Saint Louis, MO, 63112

Customer Name:

Design Date: 01/10/20  
Drawn By: Ryan Blumenshine

### REVISIONS

Description	Date
	06/22/21
	01/14/22
	05/31/22
	06/01/22

Drawing Title:  
Irrigation Plan

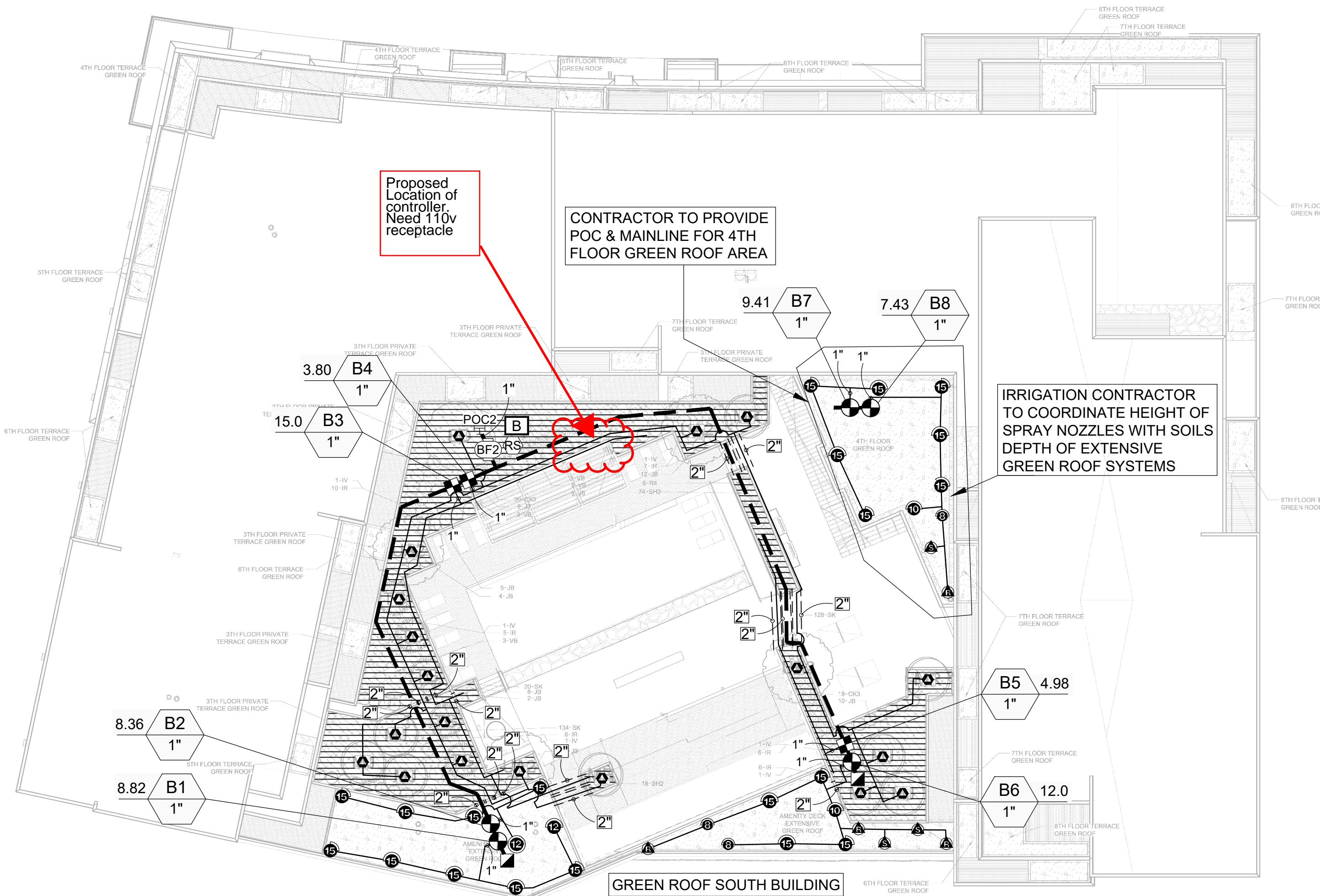
Drawing Scale: 1" = 20'

PS Project Number: 206017

Sheet Number:  
IR-1



SCALE: 1" = 20' - 0"



### IRRIGATION SCHEDULE - GREEN ROOF

SYMBOL	MANUFACTURER/MODEL
	HUNTER PROS-12 5' STRIP SPRAY
	HUNTER PROS-12 8' RADIUS
	HUNTER PROS-12 10' RADIUS
	HUNTER PROS-12 12' RADIUS
	HUNTER PROS-12 15' RADIUS

SYMBOL	MANUFACTURER/MODEL
	HUNTER PCZ-101-40 1"
	NETAFIM BLANK DRIP RING
	AREA TO RECEIVE DRIPLINE NETAFIM BLANK DRIP TUBING (1 Emitters to be installed at each shrub) (3 Emitters to be installed at each tree)

SYMBOL	MANUFACTURER/MODEL
	HUNTER PGV-101G 1"
	HUNTER HQ-44RC 1"
	FEBCO 825Y 1"
	HUNTER PRO-C CONTROLLER
	HUNTER RAIN-CLIK
	POINT OF CONNECTION 1"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1"
	PIPE SLEEVE: PVC SCHEDULE 40 2"

### WATERING SCHEDULE - GREEN ROOF

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
B1	HUNTER PGV-101G	SHRUB SPRAY	0.89 in/h	1	88	599.8	120.0
B2	HUNTER PGV-101G	SHRUB SPRAY	0.88 in/h	1	69	576.8	115.4
B3	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	1,472	294.4
B4	HUNTER PCZ-101-40	DRIP EMITTER	0.38 in/h	1	157	596.6	119.3
B5	HUNTER PCZ-101-40	AREA FOR DRIPLINE	0.64 in/h	1	94	468.1	93.6
B6	HUNTER PGV-101G	SHRUB SPRAY	1.57 in/h	1	39	469.2	93.8
B7	HUNTER PGV-101G	SHRUB SPRAY	1.06 in/h	1	57	536.4	107.3
B8	HUNTER PGV-101G	SHRUB SPRAY	1.17 in/h	1	52	386.4	77.3
TOTALS:					630	5,105	1,021

### VALVE SCHEDULE - GREEN ROOF

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	PSI	PSI @ POC	PRECIP
B1	HUNTER PGV-101G	1"	SHRUB SPRAY	8.82	30	32.07	45.68	0.89 in/h
B2	HUNTER PGV-101G	1"	SHRUB SPRAY	8.36	30	31.99	45.37	0.88 in/h
B3	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	15.66	30	50.87	62.92	0.64 in/h
B4	HUNTER PCZ-101-40	1"	DRIP EMITTER	3.80	30	35.05	46.89	0.38 in/h
B5	HUNTER PCZ-101-40	1"	AREA FOR DRIPLINE	4.98	30	35.03	47.41	0.64 in/h
B6	HUNTER PGV-101G	1"	SHRUB SPRAY	12.03	30	32.13	47.16	1.57 in/h
B7	HUNTER PGV-101G	1"	SHRUB SPRAY	9.41	30	32.2	45.72	1.06 in/h
B8	HUNTER PGV-101G	1"	SHRUB SPRAY	7.43	30	32.17	45.07	1.17 in/h

### CRITICAL ANALYSIS

P.O.C. NUMBER: 02  
Water Source Information:

FLOW AVAILABLE  
Custom Max Flow: 15.00 gpm  
Flow Available: 15.00 gpm

PRESSURE AVAILABLE  
Static Pressure at POC: 70.00 PSI  
Pressure Available: 70.00 psi

DESIGN ANALYSIS  
Maximum Station Flow: 15.66 gpm  
Flow Available at POC: 15.00 gpm  
Residual Flow Available: -0.66 gpm

Critical Station: B3  
Design Pressure: 30.00 psi  
Friction Loss: 0.79 psi  
Fittings Loss: 0.08 psi  
Elevation Loss: 0.00 psi  
Loss through Valve: 20.00 psi  
Pressure Req. at Critical Station: 50.88 psi  
Loss for Fittings: 0.06 psi  
Loss for Main Line: 0.61 psi  
Loss for POC to Valve Elevation: 0.00 psi  
Loss for Backflow: 11.37 psi  
Critical Station Pressure at POC: 62.92 psi  
Pressure Available: 70.00 psi  
Residual Pressure Available: 7.08 psi



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Project Name:  
**DeBALIVIERE TOD SOUTH BUILDING**  
**Saint Louis, MO, 63112**

Customer Name:

Design Date: 01/10/2020

Drawn By: Ryan Blumenshine

### REVISIONS

Description	Date
	06/22/21
	01/14/22
	05/31/22
	06/01/22

Drawing Title:  
Irrigation Plan

Drawing Scale: 1" = 20'

PS Project Number: 206017

Sheet Number:

IR-2

