PARIC CORPORATION
77 Westport Plaza Suite 250
St. Louis, MO 63146
TEL: 636-561-9500
FAX: 636-561-9501

REQUEST FOR INFORMATION

DATE: April 13, 2016 **NO.:** RFI-034

To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Devin Gates

Project Name: Webster University Interdisciplinary Science Building Project No.: 15051

Subject: Existing irrigation lines at ISB project

Response Required By: April 20, 2016

Drawing / Spec Reference:

Information Requested:

There are existing irrigation lines running thru the ISB project limits that will need to be relocated to construct the building. See attached plan markups. These lines feed out of the East side of the EAB. Should these existing lines be relocated back so the existing irrigation system feeds in a similar manner? Or should the new irrigation system incorporate new zones to accommodate the adjacent existing areas? Please advise.

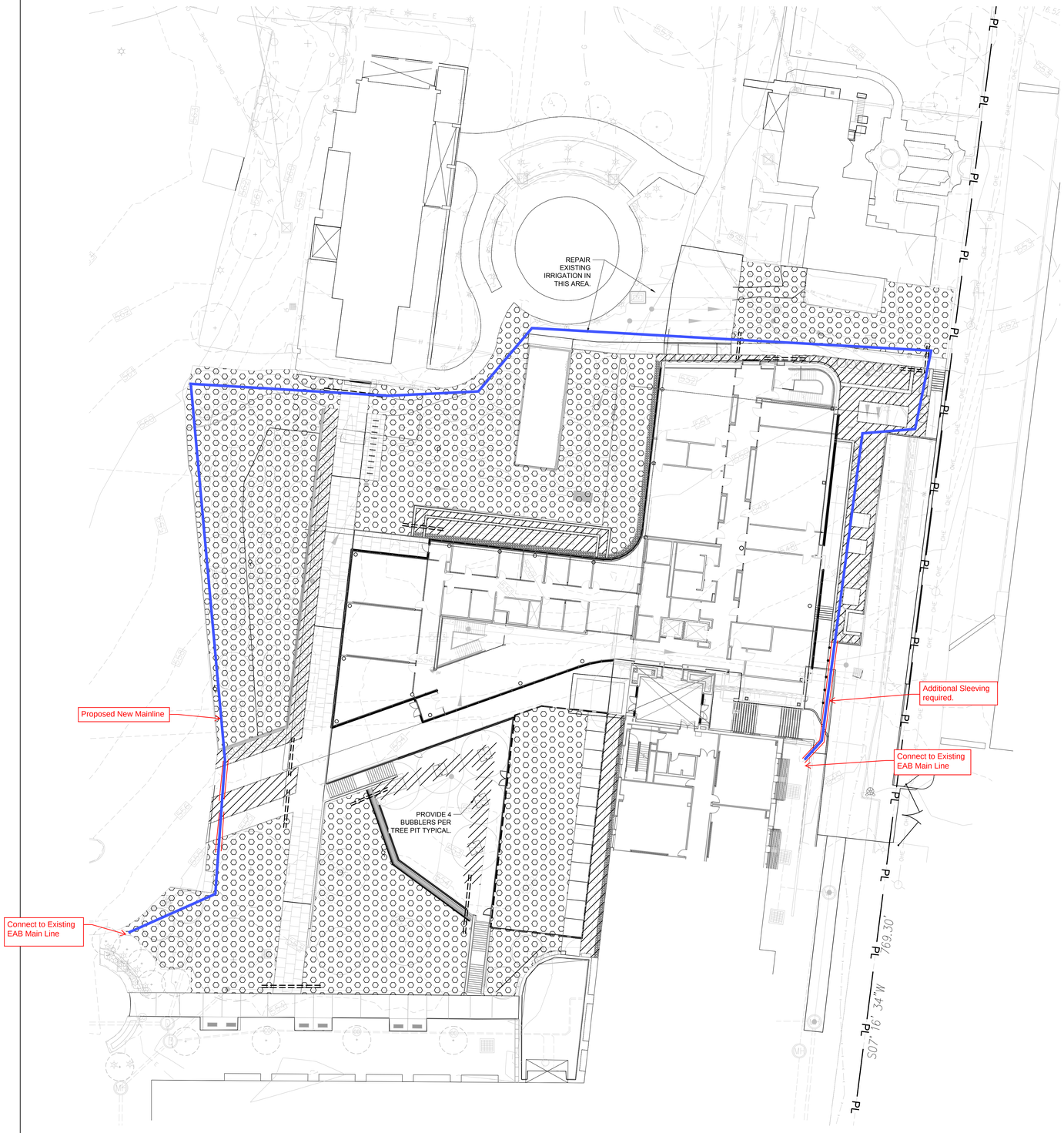
Suggestion: See attached documents for reference.

Response:

Since area to be irrigated with the ISB project is no greater than what is currently being irrigated by the EAB system, SWT recommends designing the new ISB irrigation as a modification to the existing EAB irrigation system. Making adjustment to existing zones and utilizing the existing EAB controller and main line connection. See attachment for suggested routing for mainline.

ARCHITECT'S RESPONSE:
This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By:_____ _____ Date:_____



A IRRIGATION PLAN
SCALE: 1" = 20'

0' 10' 20' 40'

LEGEND

POP UP SHRUB BUBBLERS

SPRAY IRRIGATION
- TURF AREAS, POPUP ROTORS.
- BMP AREAS SHALL BE IRRIGATED BY HIGH POPUP SPRAYS/ROTORS LOCATED ALONG THE PERIMETER OF THE PLANTING AREAS.

====== IRRIGATION SLEEVE

NOTES:
1. COORDINATE CONTROLLER LOCATION WITH OWNER.
2. COORDINATE BACKFLOW LOCATION WITH CIVIL/MEP DRAWINGS.
3. SEE SPECIFICATIONS.

MSD P# 28874-01 MSD BASE MAP 23K2

Webster UNIVERSITY

Webster University
Interdisciplinary Science Building

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

Webb Engineering Services, Inc
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

Faith Group
Technology
930 N. McKnight Rd
St. Louis, MO 63132
314.991.2228

STATE OF MISSOURI
ZACHERY THOMPSON SNOVELLE
NUMBER LA-2014026497
LANDSCAPE ARCHITECT
4/13/2016

No.	Description	Date
-	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016

Drawing Title:

IRRIGATION PLAN

SWT Project No.: 20018.01 Checked by:

L170

IRRIGATION EQUIPMENT SCHEDULE

Backflow Preventers

Symbol	Description	Size
⋈	Febco Reduced Pressure Assembly In Line 'Y'	2"

Controllers

Symbol	Description	Size
A	Rainbird LXPLUS modular	24 zones

Equipment

Symbol	Description	Size
⋈	Netafin Filter	1"
⋈	Netafin Pressure Regulator	1"

Irrigation Heads

Symbol	Description	Size
▽	RAINBIRD 3500 Series Nozzle 2 ADJ*	20.00 ft
✲	RAINBIRD 5000 Plus 2.5 ADJ*	29.80 ft
✲	RAINBIRD 5000 Plus 3.0 360*	30.00 ft
✲	RAINBIRD 5000 Plus 3.0 ADJ*	35.00 ft
✲	RAINBIRD 5000 Plus 3.0 ADJ*	30.00 ft
✲	RAINBIRD 5000 Plus 3.0 ADJ*	40.00 ft
✲	RAINBIRD 5000 Plus 3.0 ADJ*	28.87 ft
✲	RAINBIRD 5000 Plus 3.0 ADJ*	29.00 ft
◔	RAINBIRD Plastic MPR Nozzles Nozzle 8 Series trajectory 10 deg 90*	8.00 ft
◯	RAINBIRD Plastic MPR Nozzles Nozzle 8 Series trajectory 10 deg 180*	8.00 ft
◔	RAINBIRD Plastic MPR Nozzles Nozzle 10 Series trajectory 15 deg 90*	10.00 ft
◯	RAINBIRD Plastic MPR Nozzles Nozzle 10 Series trajectory 15 deg 180*	10.00 ft
◯	RAINBIRD Plastic MPR Nozzles Nozzle 12 Series trajectory 30 deg 180*	12.00 ft
◔	RAINBIRD Plastic MPR Nozzles Nozzle 15 Series trajectory 30 deg 90*	15.00 ft
◓	RAINBIRD Plastic MPR Nozzles Nozzle 15 Series trajectory 30 deg 180*	15.00 ft

Pipe (Lateral)

Symbol	Description	Size
———	200 PSI SDR 21 PVC Pipe	1"
———	200 PSI SDR 21 PVC Pipe	1-1/4"
———	200 PSI SDR 21 PVC Pipe	1-1/2"
———	200 PSI SDR 21 PVC Pipe	2"

Pipe (Mainline)

Symbol	Description	Size
	200 PSI SDR 21 PVC Pipe	2"

Pipe (Sleeve)

Symbol	Description	Size
———	200 PSI SDR 21 PVC Pipe	4"
———	200 PSI SDR 21 PVC Pipe	2"

Point of Connection

Symbol	Description	Size
⊕	2" POC	57.00 gpm @ 85.00 PSI

Subsurface

Symbol	Description	Size
———	0.60 gph, 18.00 in on center, 20.00 in spacing	N/A

Valves

Symbol	Description	Size
		1"
		1-1/2"
⋈	Control Valve Drip	1"

Quick Coupler Valves

Symbol	Description
◉	33RC

DRIP ORNAMENTAL ZONE LABEL

D10 1" 18 — Drip zone #, GPM, Valve Size

*Rain Bird LD-06-12

SPRAY TURF ZONE LABEL

S10 1" 18 — Spray zone #, GPM, Valve Size

*4" 1804 Rainbird

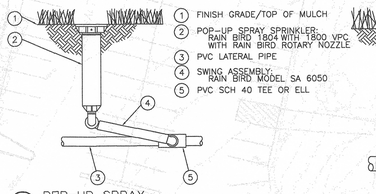
** RAINBIRD MPR Nozzle

ROTOR TURF LABEL

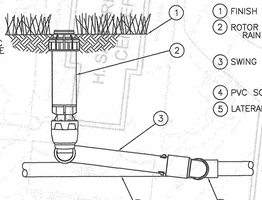
R10 1" 18 — Rotor zone #, GPM, Valve Size

*4" Rainbird 5004

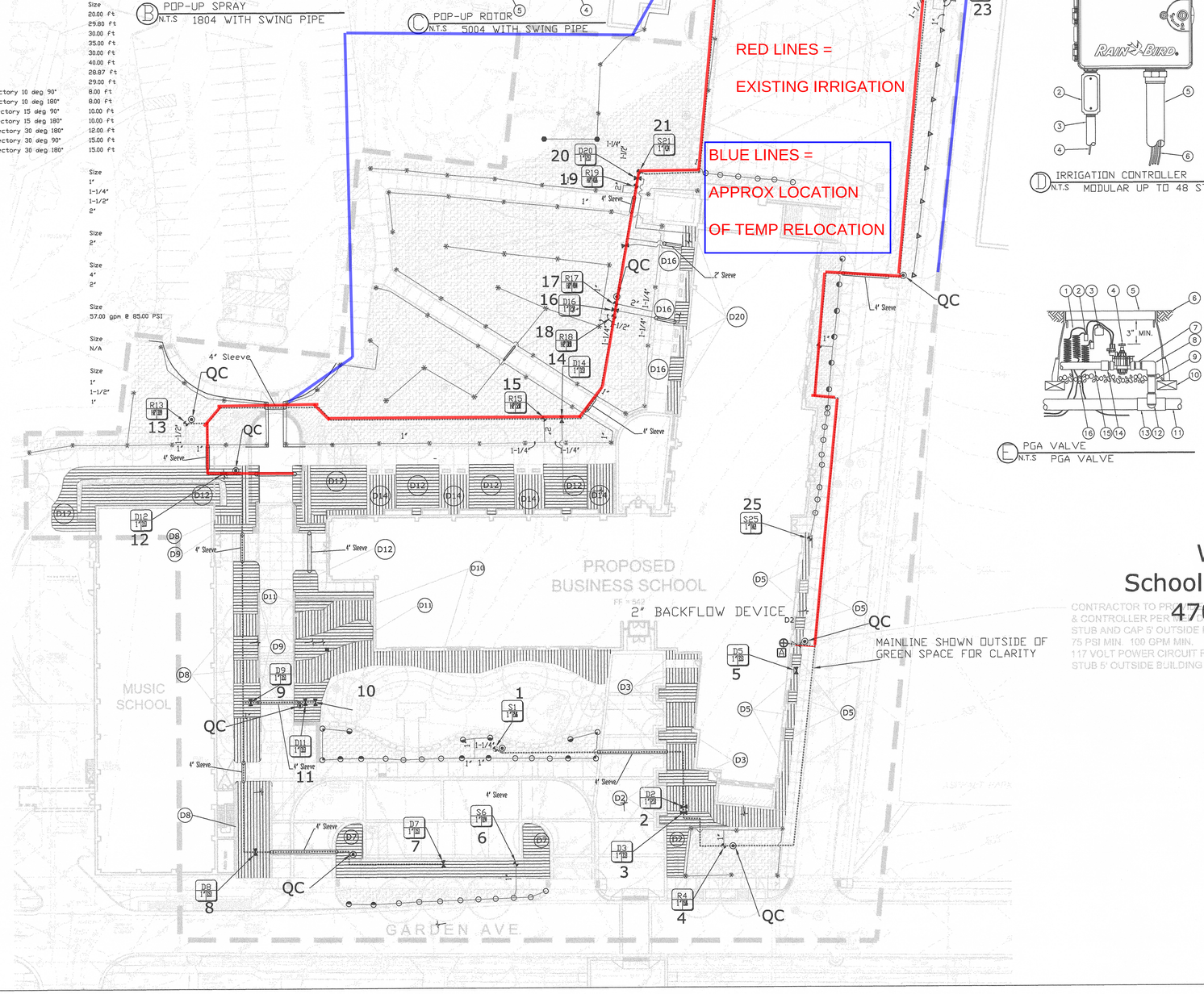
** Standard 3.0 Nozzle



B POP-UP SPRAY 1804 WITH SWING PIPE N.T.S



C POP-UP ROTOR 5004 WITH SWING PIPE N.T.S



D IRRIGATION CONTROLLER N.T.S MODULAR UP TO 48 STAT

1. IRRIGATION CONTROLLER: RAIN BIRD ESP-LXME CONTROLLER IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX
3. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY.
4. POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
6. WIRES TO REMOTE CONTROL VALVES

E PGA VALVE N.T.S PGA VALVE

1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION: RAIN BIRD SPLICE-1" (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: RAIN BIRD PGA
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE).
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

7800 Hwy N
O'Fallon, MO 63368
Office: (636) 561-3947
Fax: (636) 561-3948

Roden LANDSCAPING, INC.

Commercial & Residential Irrigation

REQUIREMENTS.

8. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSUR... REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE R... CONNECTION AND THE DESIGN PRESSURE TO THE OWNER'S RE... PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO STAR... IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILIT...
9. THE SYSTEM SHALL BE RAINBIRD OR TORO OR APPROV...
10. ... ARCHITECT AND OW...
11. ... 50 GPM @ 65 PSI. CONTRA...
12. ... CONDITIONS. LOCATION OF CONTROLLERS AND POINT OF CON... ON IRRIGATION PLAN. OBJECT OF HEAD SPACING IS TO ACQU... ...LKS AND BUILDINGS.
13. ... SENSOR SHALL BE CONNECTED TO THE IRRIGATION CO...
14. CONTRACTOR SHALL SUBMIT MANUFACTURER'S LITERATURE, ... PROCEDURES AND DETAILS FOR IRRIGATION SYSTEM.
15. ALL PLANT MATERIAL SHALL BE AUTOMATICALLY IRRIGATED AS ... PER THE SPECIFICATIONS.
16. IRRIGATION SHALL BE ZONED APPROPRIATELY (SUNNY VS. SHA... AREAS, SLOPED VS. FLAT AREAS) AND USING APPROPRIATE HE...
17. EACH TREE SHALL GET A DRIP RING.
18. SHRUB MASSES SHALL GET A DRIP DISTRIBUTION ZONE (1 EMIT...
19. NATIVE PLUGS SHALL GET HIGH POP-UP SPRAYS.
20. ALL DRIP ZONES ARE TO HAVE 1CY OF DRAINAGE GRAVEL AT T...
21. INSTALL ONE (1) QUICK COUPLER VALVE EVERY 200' OF MAINLI... END RUNS OF MAINLINE. CONTRACTOR TO DETERMINE LOCATI...

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INST... WIRING TO BE DIRECT BURIAL IN THE SAME TRENCH WITH MAIN... GROUND.

IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR TH... CIRCUIT SLEEVES UNDER ALL PAVED AREAS WITHOUT D... WHENEVER POSSIBLE, INSTALL PIPING AND 24 VOLT CONTROL ... IN ACCORDANCE WITH GOVERNING CODES.

ALL PIPE MATERIALS AND EQUIPMENT USING TEFLON TAPE ... THREADS. SPRINKLER PIPE JOINTS AND VALVE ASSE...

POP-UP TYPE SPRINKLER HEADS INSTALLED IN SHRUB, GR... SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HE... ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINI... ...ATED UNLESS OTHER WISE DESIGNED IN DETAILS.

THE IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLER ... AND TO PREVENT OVERSPRAY ONTO PAVING AND STRUCTURE ... LIMITED TO, FLOW CONTROL ADJUSTMENT AND SELECTING THE ... THE SITE CONDITIONS.

CONTRACTOR SHALL FIELD VERIFY THE EXTEND OF EXISTING ... THE NEW PLANTING LAYOUT.

CONTRACTOR TO PR... & CONTROLLER PER ... STUB AND CAP 5' OUTSIDE BUILDING WALL. 75 PSI MIN. 100 GPM MIN. 117 VOLT POWER CIRCUIT REQUIRED ... CONDUIT STUB 5' OUTSIDE BUILDING WALL.

WEBSTER UNIVERSITY
School of Business and Technology
470 East Lockwood Avenue
Irrigation Plan
8/28/2011
REV 10/13/2011

AS BUILT 6/15/2012

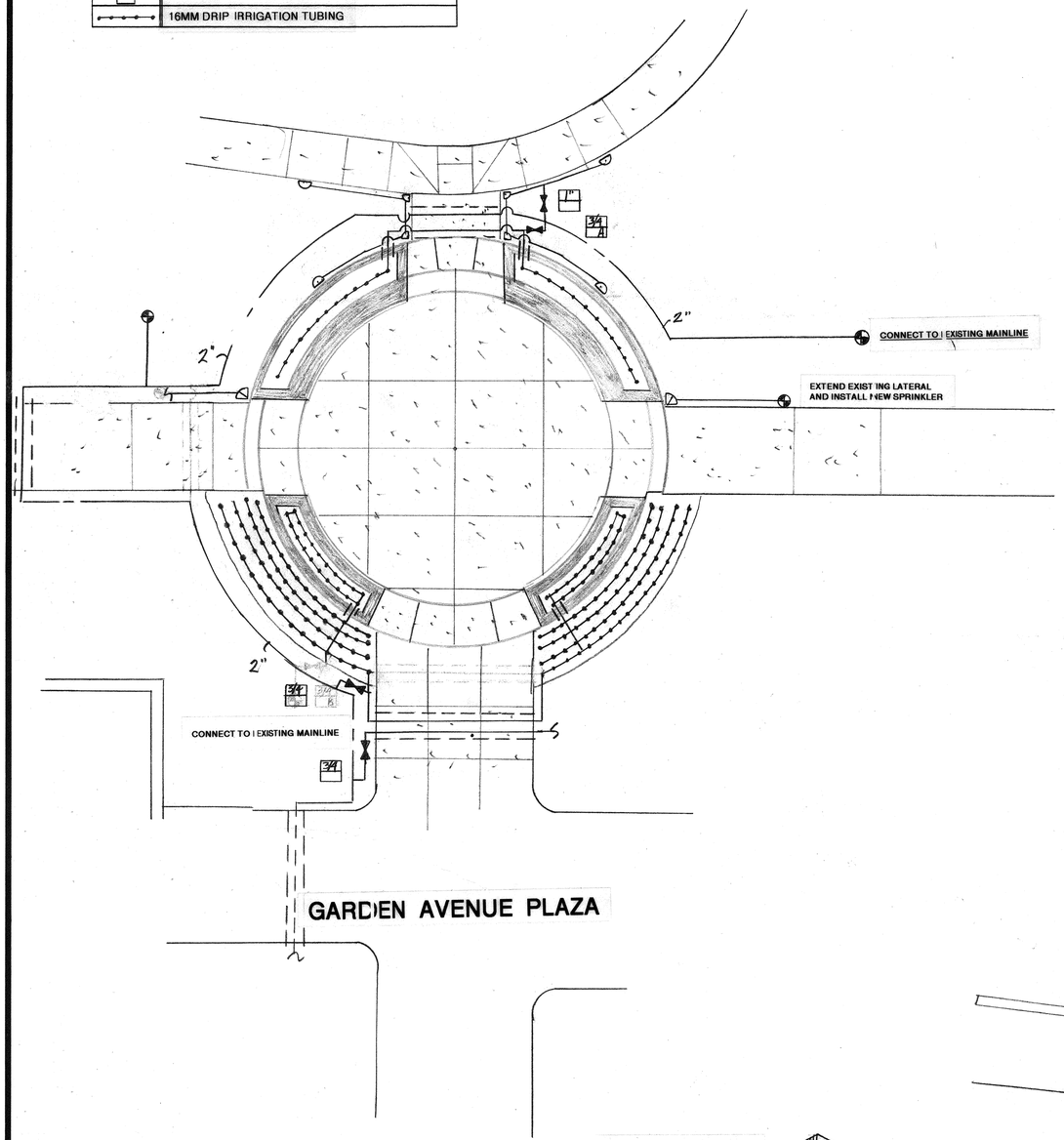
LEGEND

NOTES:

1. THE PRO... BY A LIC... SEALED ... REQUIRE... OWNERS ... APPROV...
2. COORDI... OWNER'S ... ARCHITE...
3. PROVIDE ... AND CUT...
4. INSTALL ... SPACING ... LOCATIO... AS INDIC...
5. SEE IRR...

IRRIGATION SYSTEM SCHEDULE

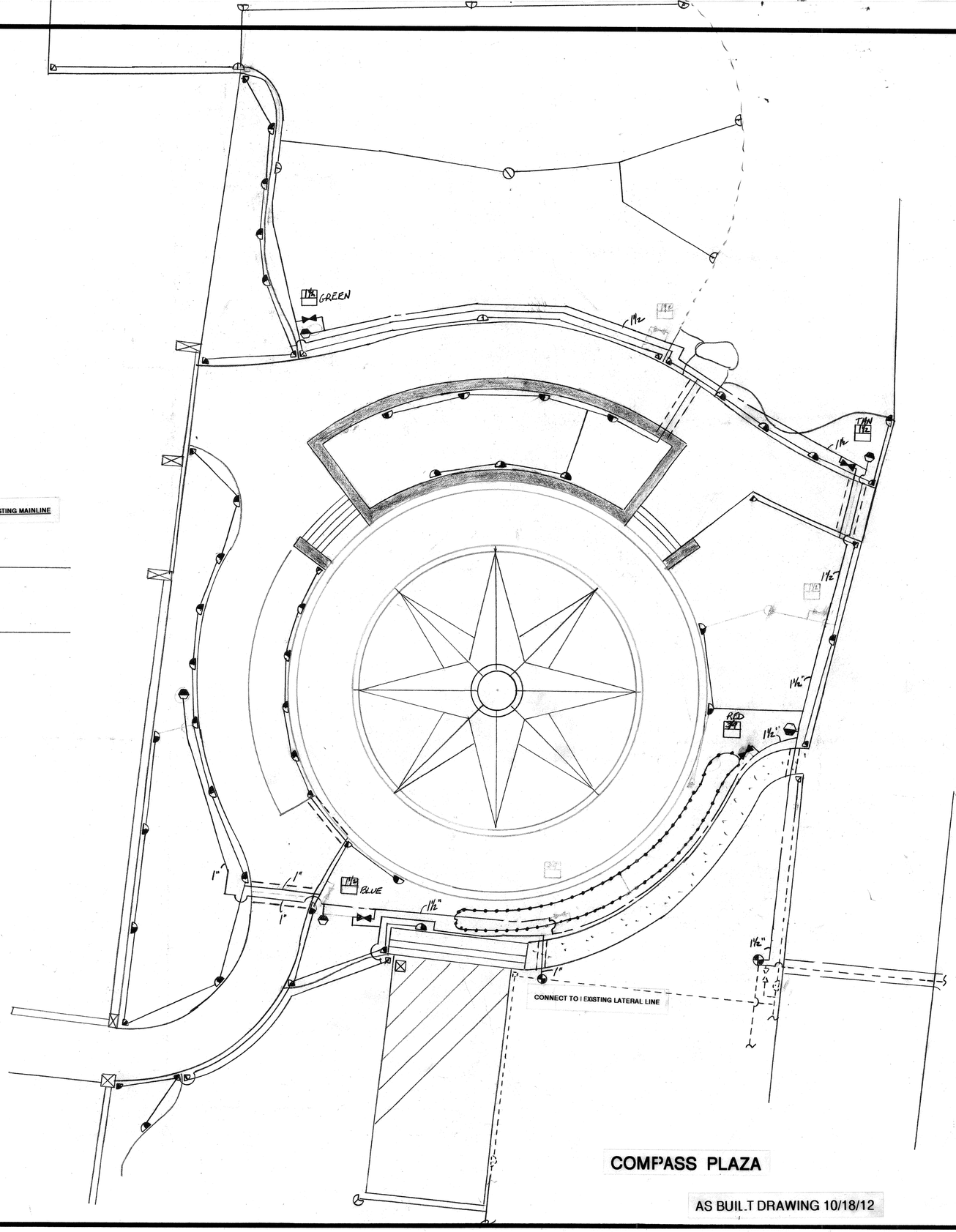
	RAINBIRD 1804 SPRAY HEAD WITH FLEX CONNECTION
	RAINBIRD 1812 SPRAY HEAD WITH FLEX CONNECTION
	RAINBIRD 5000 ROTOR HEAD WITH FLEX CONNECTION
	RAINBIRD PGA ELECTRIC ZONE VALVE IN 10" VALVE BOX
	RAINBIRD "ESP" SERIES CONTROLLER
	PVC SLEEVE UNDER PAVEMENT
	PVC IRRIGATION MAINLINE, SIZED AS SHOWN
	PVC LATERAL PIPING, SIZED AS SHOWN
	POINT OF CONNECTION, VALVED STUB SIZED AS SHOWN
	WILKEN'S REDUCED PRESSURE BACKFLOW PREVENTER
	VALVE SIZE AND ZONE SEQUENCE
	16MM DRIP IRRIGATION TUBING



GARDIEN AVENUE PLAZA

SCALE: 1/8" = 1' 0"

IRRIGATION SYSTEM PLAN



COMPASS PLAZA

AS BUILT DRAWING 10/18/12

revisions

no.	date	description

IRRIGATION SYSTEM BY:

GARTLAND INC.

7927 BIG BEND BLVD. ■ ST. LOUIS, MO 63119

314 - 961 - 4001

PROJECT: WEBSTER UNIVERSITY

COMPASS PLAZA

GARDEIN AVE. PLAZA

job no.

date 8/6/12

sheet no. IRR-1