Vicinity Map for License Agreement Application – 6101 Quadrangle Irrigation in Verge

The below overhead image of 6101 Quadrangle Drive does not show the newly installed sidewalk which runs from close to the 6101 driveway entrance, north along Quadrangle Drive to the bus stop. Due to the new grades and new sidewalk, the existing irrigation is no longer adequate. The proposed improvements, which this License Agreement Application is for, include the revisions necessary for the existing PVC irrigation system to adequately supply water to the verge area between the new sidewalk and Quadrangle Drive. The following plans more clearly show the irrigation layout.

Thank you,

David Heath
Project Engineer LEED® AP BD+C

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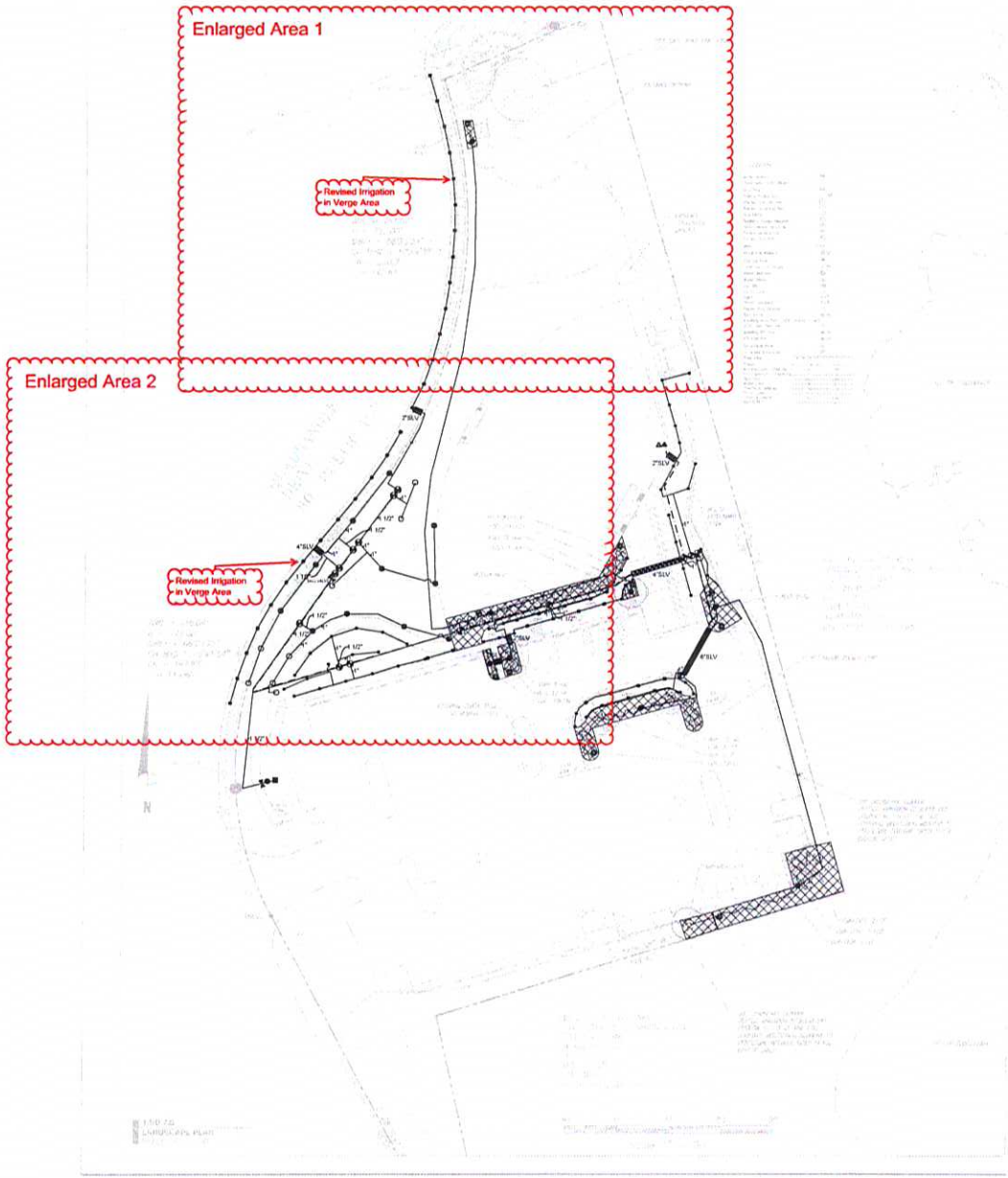
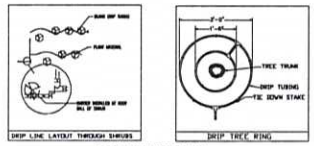
It's All About People.



Irrigation

Qty	Symbol	Description
94		4" SPRAYS
8		20' ROTOR
11		35' ROTOR
1		BACKFLOW PREVENTER
13		IRRIGATION VALVE
2		IRRIGATION VALVE (DRIP)
1		AUTOMATIC CONTROLLER
2		BALL VALVE
1		RAIN SENSOR
2		AIR RELIEF VALVE
8		DRIP STUB-UP
8		FLUSH VALVE
20 (ft)		2" Sleeves
40 (ft)		4" Sleeves
40 (ft)		6" Sleeves
1		3/4 inch meter
60 (ft)		Lateral - 1 1/2"
2400 (ft)		Lateral - 1"
560 (ft)		Mainline - 1 1/2"
1050 (ft)		6-18 @18" Drip Tubing



AREA DENOTES DRIP

IRRIGATION SPECIFICATIONS

1. IRRIGATION SYSTEM DESIGN BASED ON 20 GPM AT 70 PSI.
2. IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION(POC)ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE(GPM)AND POUNDS PER SQUARE INCH(PSI)FURNISHED BY OTHERS.
3. IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
4. THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5 FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
5. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
6. IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION TO BE PER LOCAL CODE.
7. LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWING IS APPROXIMATE. ACTUAL PLACEMENT MAY VERY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
8. ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES. EXCEPT AS OTHERWISE INDICATED.
9. INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH MINIMUM 12" OF COVER BASED ON FINISH GRADES.
10. PIPE LOCATIONS ARE DIAGRAMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
11. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
12. ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
13. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
14. THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET(AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). JOHN DEERE LANDSCAPES BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO JOHN DEERE LANDSCAPES IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.
15. THE INSTALLING CONTRACTOR MUST HOLD A CURRENT, VALID NC IRRIGATION CONTRACTOR'S LICENSE.

JOHN DEERE LANDSCAPES

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Troy, Michigan 48083
Phone 248.588.2100
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www.JohnDeereLandscapes.com
800.347.4272

Project Name:
6101 QUADRANGLE DRIVE
DURHAM, NC

Customer Name:
SHADETREE IRRIGATION

Design Date:	06/26/12
Drawn By:	MT
Checked By:	BWI
Approved By:	AMP
Released Date:	06/26/12

REVISIONS

Description	Date
1	07/03/12
2	
3	
4	
5	
6	

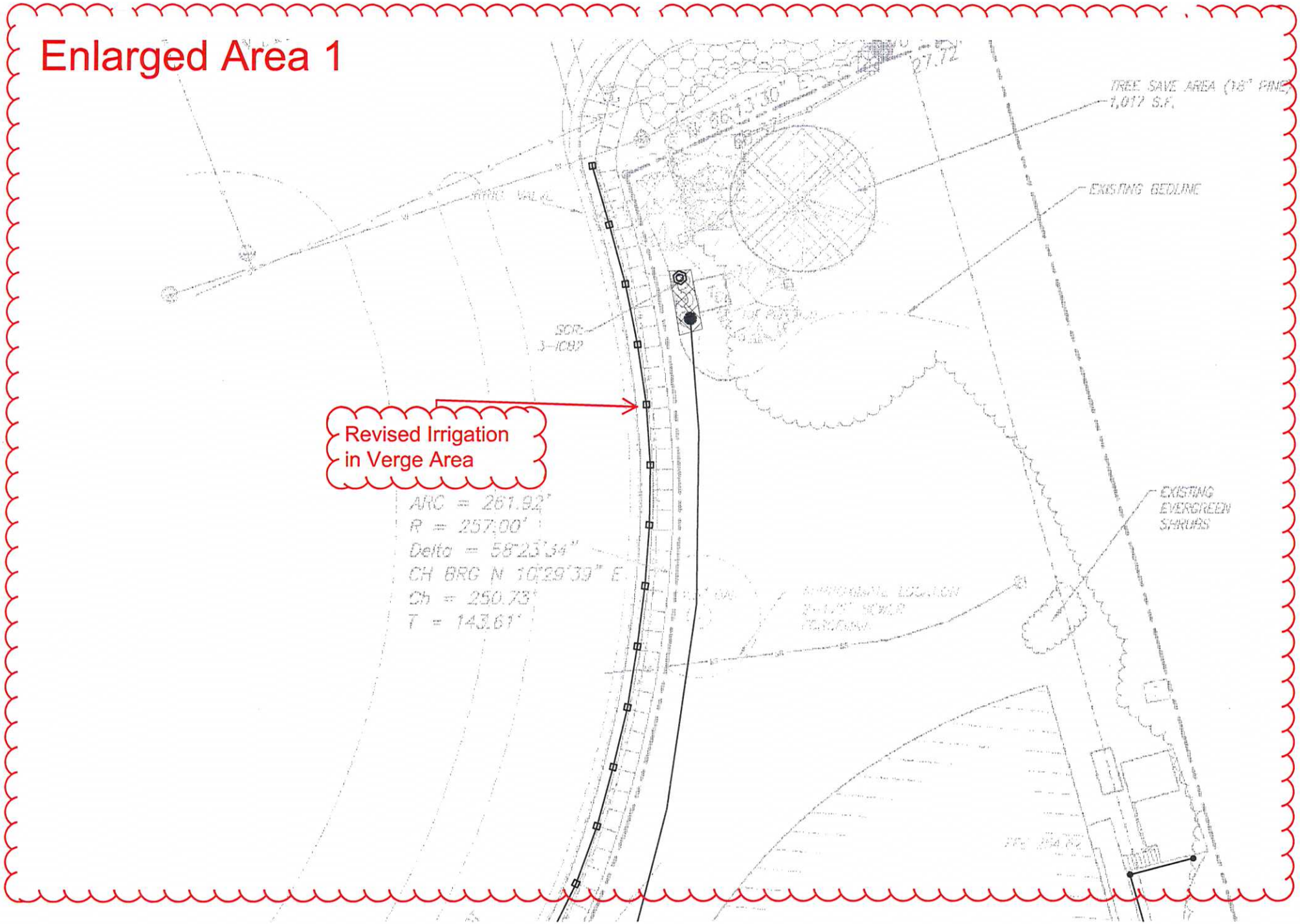
Drawing Title:
AS BUILT PLAN

Drawing Scale: 1" = 30'

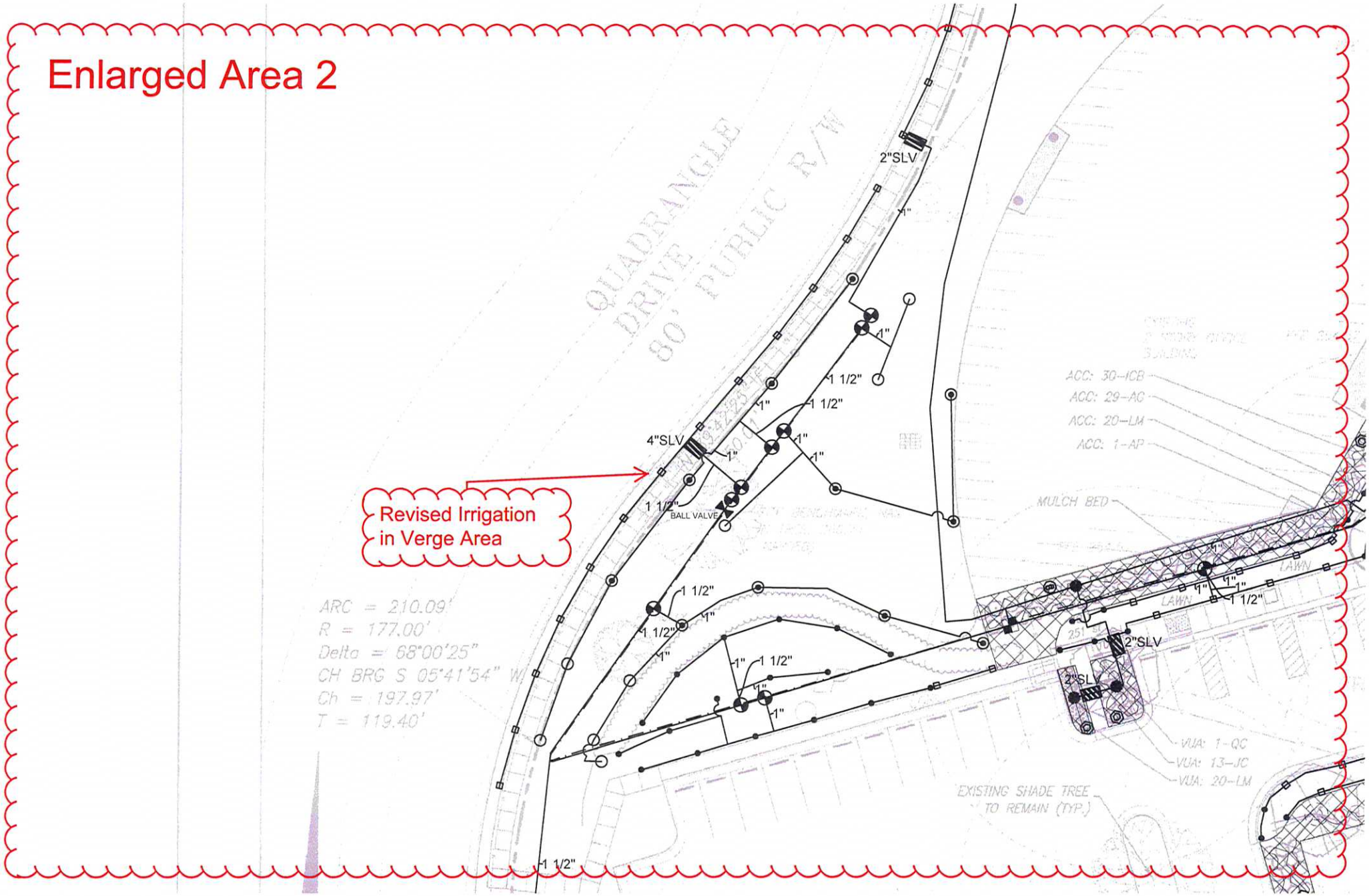
CLS Project Number: 17786511

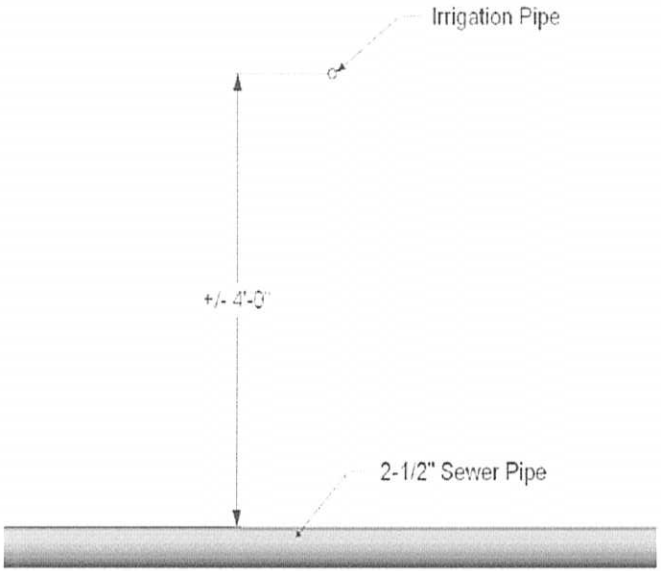
Sheet Number:
IR-1
Sheet 1 of 1

Enlarged Area 1



Enlarged Area 2





Note: Irrigation in verge crosses existing sewer pipe in one location.

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Project Name:
6101 QUADRANGLE DRIVE
DURHAM, NC

Customer Name:
SHADETREE IRRIGATION

Applicant:
KBR BUILDING GROUP

Owner:
ALEXANDRIA REAL ESTATE EQUITIES

Design Date:
[illegible]

Drawn By:
[illegible]

Checked By:

Approved By:

Released Date:

REVISIONS

Description	Date

Drawing Title:
Elevation Cross Section @ Building Sewer

Drawing Scale:

CLD Project Number: 17708011

Sheet Number: