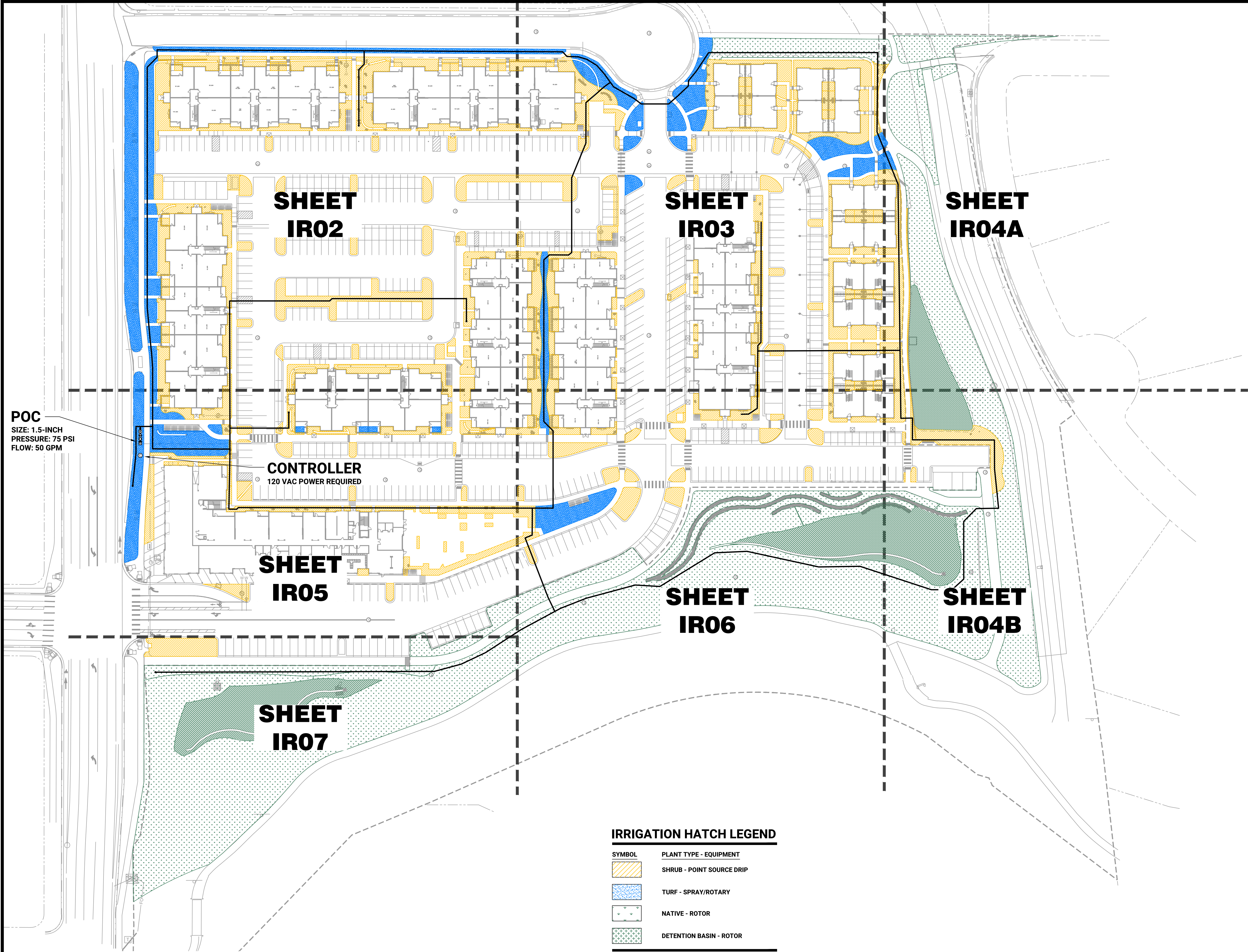




THE QUARRY BY
WATERMARK

FINAL DEVELOPMENT
PLAN

FORT COLLINS, CO
PREPARED BY:



PLANNER

RIPLY DESIGN INC.
Russell Lee
419 Canyon Ave, Suite 200
Fort Collins, CO 80521
p. 970.224.5628
f. 970.225.6657

APPLICANT

THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317. 853. 5459

ENGINEER

NORTHERN ENGINEERING
Danny Weber
301 N. Howes Street, Suite 100
Fort Collins, CO 80521
p. 970.221.6789

IRRIGATION CONSULTANT

HINES INC.
Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
p. 970.282.1800

ORIGINAL SIZE 24X36

ISSUED

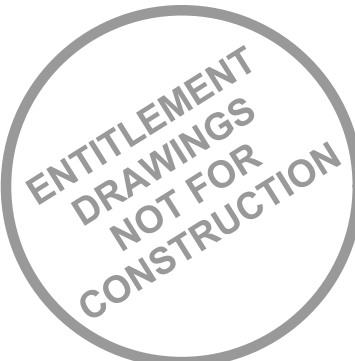
No.	DESCRIPTION	DATE
01	100% DD	08.23.2021
02	FDP SUBMITTAL	09.01.2021

REVISIONS

No.	DESCRIPTION	DATE

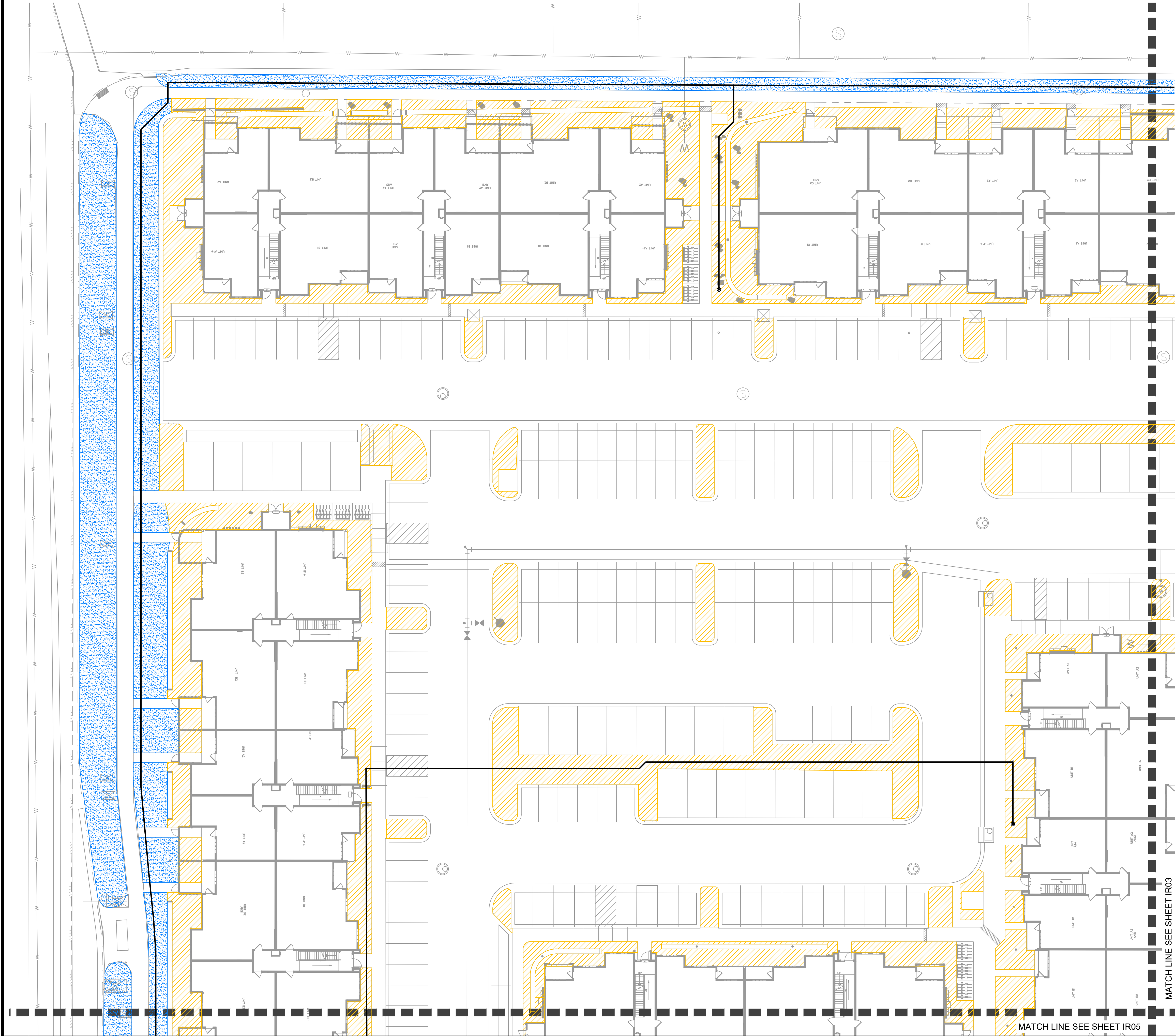
OVERALL IRRIGATION
PLAN

SEAL:



PROJECT No.:	R20-040
DRAWN BY:	BI
REVIEWED BY:	BJ
DRAWING NUMBER:	

IR01



IRRIGATION HATCH LEGEND

SYMBOL	PLANT TYPE - EQUIPMENT
	SHRUB - POINT SOURCE DRIP
	TURF - SPRAY/ROTARY
	NATIVE - ROTOR
	DETENTION BASIN - ROTOR

THE QUARRY BY WATERMARK

FINAL DEVELOPMENT PLAN

FORT COLLINS, CO
PREPARED BY:

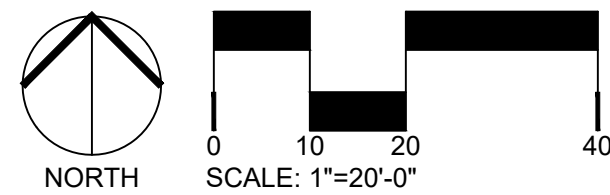


PLANNER
RIPLEY DESIGN INC.
Russell Lee
419 Canyon Ave, Suite 200
Fort Collins, CO 80521
p. 970.224.5628
f. 970.225.6657

APPLICANT
THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317. 853. 5459

ENGINEER
NORTHERN ENGINEERING
Danny Weber
301 N. Howes Street, Suite 100
Fort Collins, CO 80521
p. 970.221.6789

IRRIGATION CONSULTANT
HINES INC.
Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
p. 970.282.1800



ORIGINAL SIZE 24X36

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02	FDP SUBMITTAL	09.01.2021

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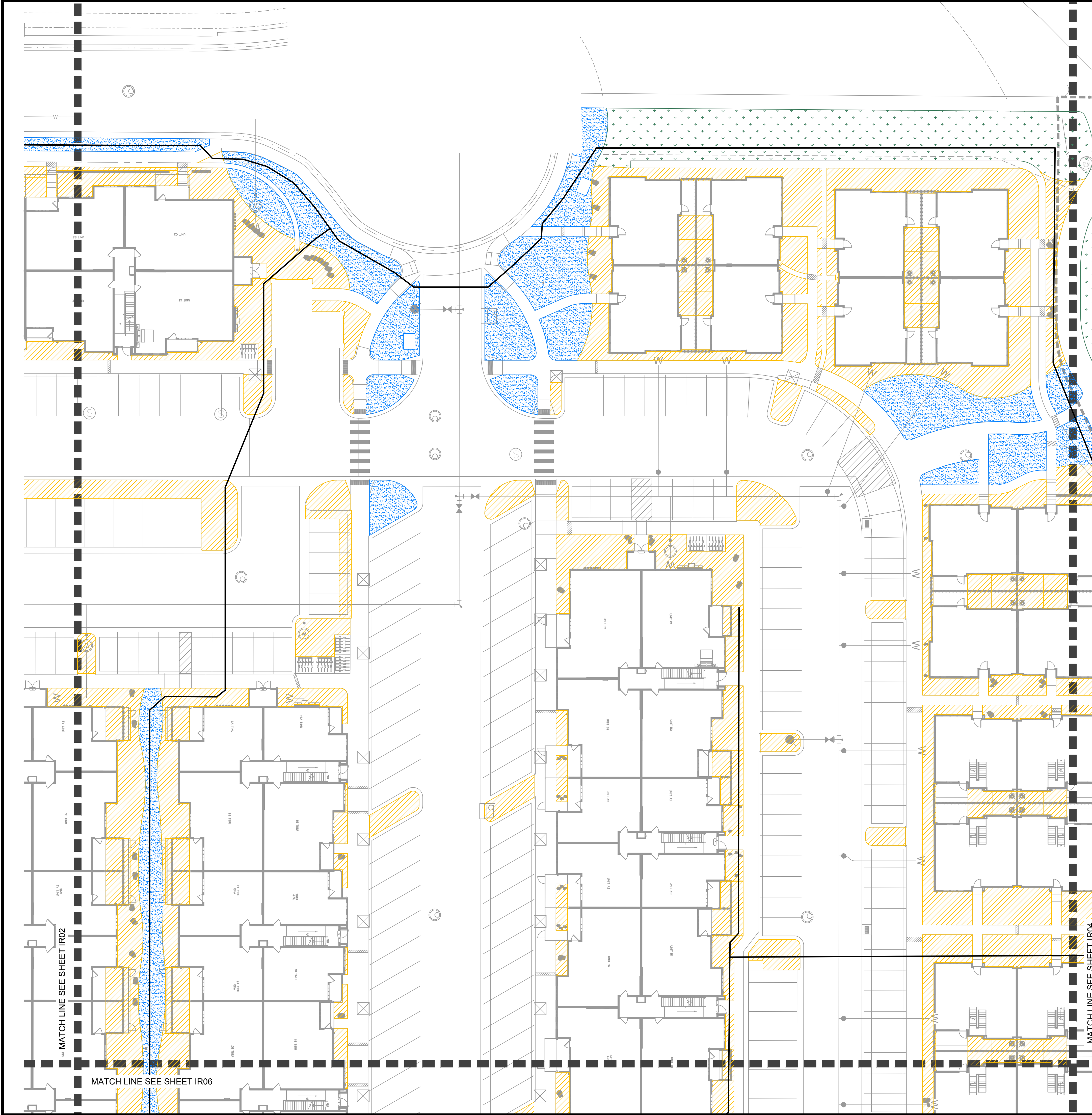
No.	DESCRIPTION	DATE

IRRIGATION PLAN

SEAL:



PROJECT No.:	R20-040
DRAWN BY:	BI
REVIEWED BY:	BJ
DRAWING NUMBER:	IR02



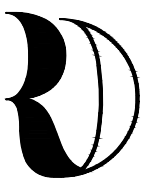
IRRIGATION HATCH LEGEND

SYMBOL	PLANT TYPE - EQUIPMENT
	SHRUB - POINT SOURCE DRIP
	TURF - SPRAY/ROTARY
	NATIVE - ROTOR
	DETENTION BASIN - ROTOR

THE QUARRY BY
WATERMARK

FINAL DEVELOPMENT
PLAN

FORT COLLINS, CO
PREPARED BY:



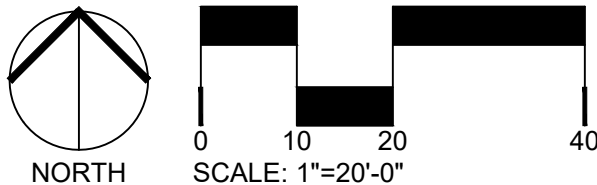
ripleydesign
LANDSCAPE ARCHITECTURE, LAND PLANNING
419 Canyon Ave, Suite 200 Fort Collins, CO 80521
phone 970.224.5628 fax 970.225.6657 www.ripleydesign.com

PLANNER
RIPLEY DESIGN INC.
Russell Lee
419 Canyon Ave, Suite 200
Fort Collins, CO 80521
p. 970.224.5628
f. 970.225.6657

APPLICANT
THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317. 853. 5459

ENGINEER
NORTHERN ENGINEERING
Danny Weber
301 N. Howes Street, Suite 100
Fort Collins, CO 80521
p. 970.221.6789

IRRIGATION CONSULTANT
HINES INC.
Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
p. 970.282.1800



ORIGINAL SIZE 24X36

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No.	DESCRIPTION	DATE

IRRIGATION PLAN

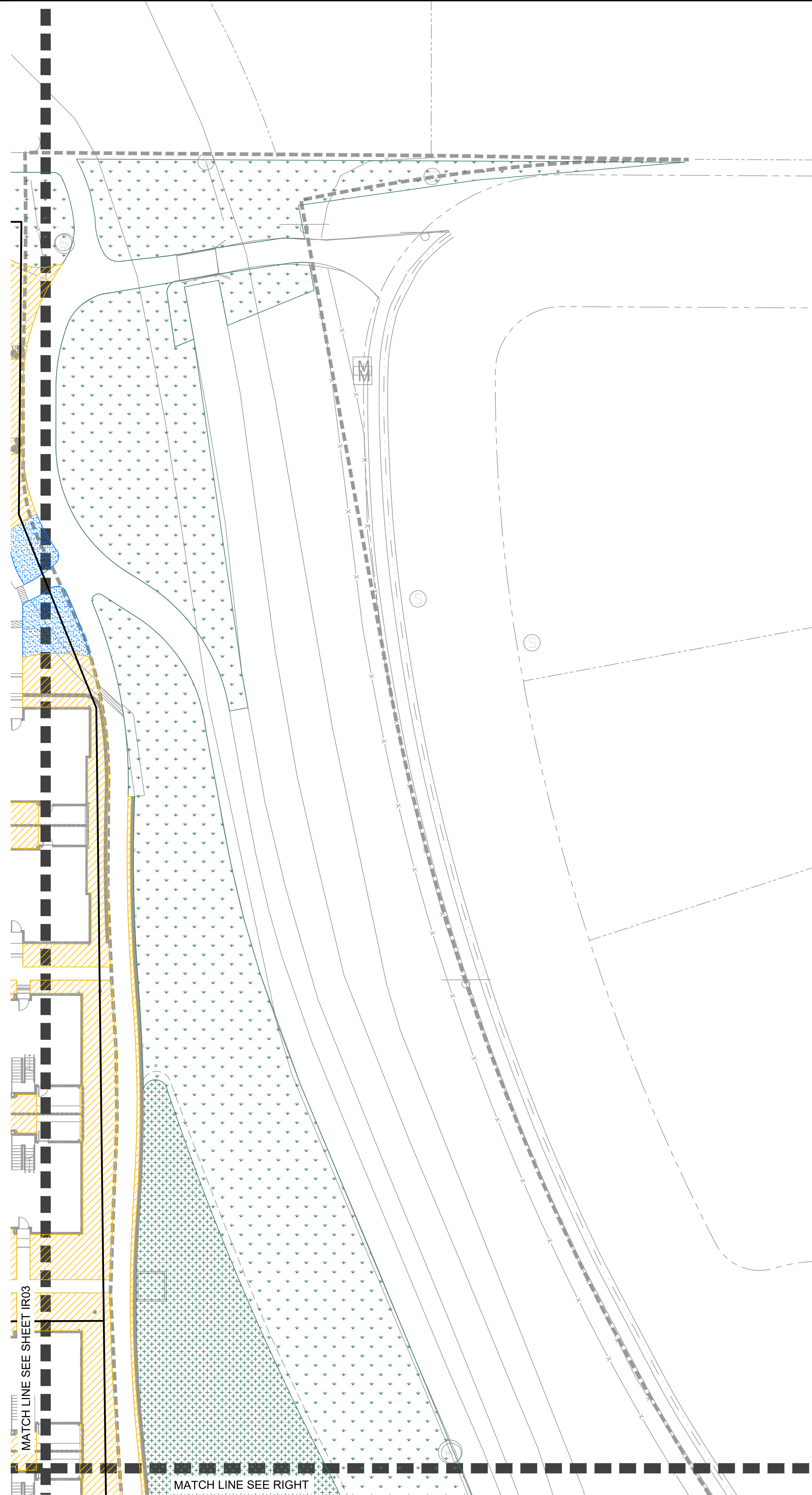
SEAL:



PROJECT No.:	R20-040
DRAWN BY:	BI
REVIEWED BY:	BJ
DRAWING NUMBER:	

IR03

PLAN A



PLAN B



THE QUARRY BY
WATERMARK

FINAL DEVELOPMENT PLAN

FORT COLLINS, CO
PREPARED BY:



PLANNER

RIPLEY DESIGN INC.
Russell Lee
419 Canyon Ave. Suite 200
Fort Collins, CO 80521
p. 970.224.5828
f. 970.225.6657

APPLICANT

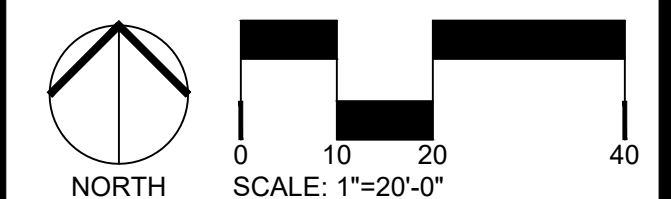
THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317. 853. 5459

ENGINEER

NORTHERN ENGINEERING
 Danny Weber
 301 N. Howes Street, Suite 100
 Fort Collins, CO 80521
 p. 970.221.6789

IRRIGATION CONSULTANT

HINES INC.
Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
p. 970.282.1800



ORIGINAL SIZE 24X36

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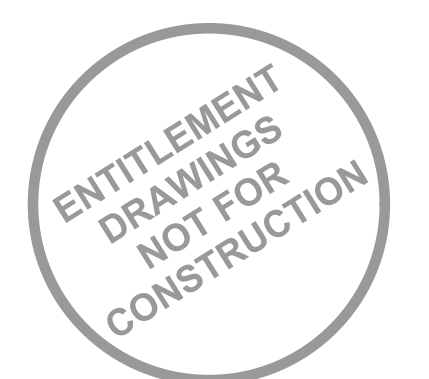
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01	100% DD	08.23.2021
02	FDP SUBMITTAL	09.01.2021

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No.	DESCRIPTION	DATE

IRRIGATION PLAN

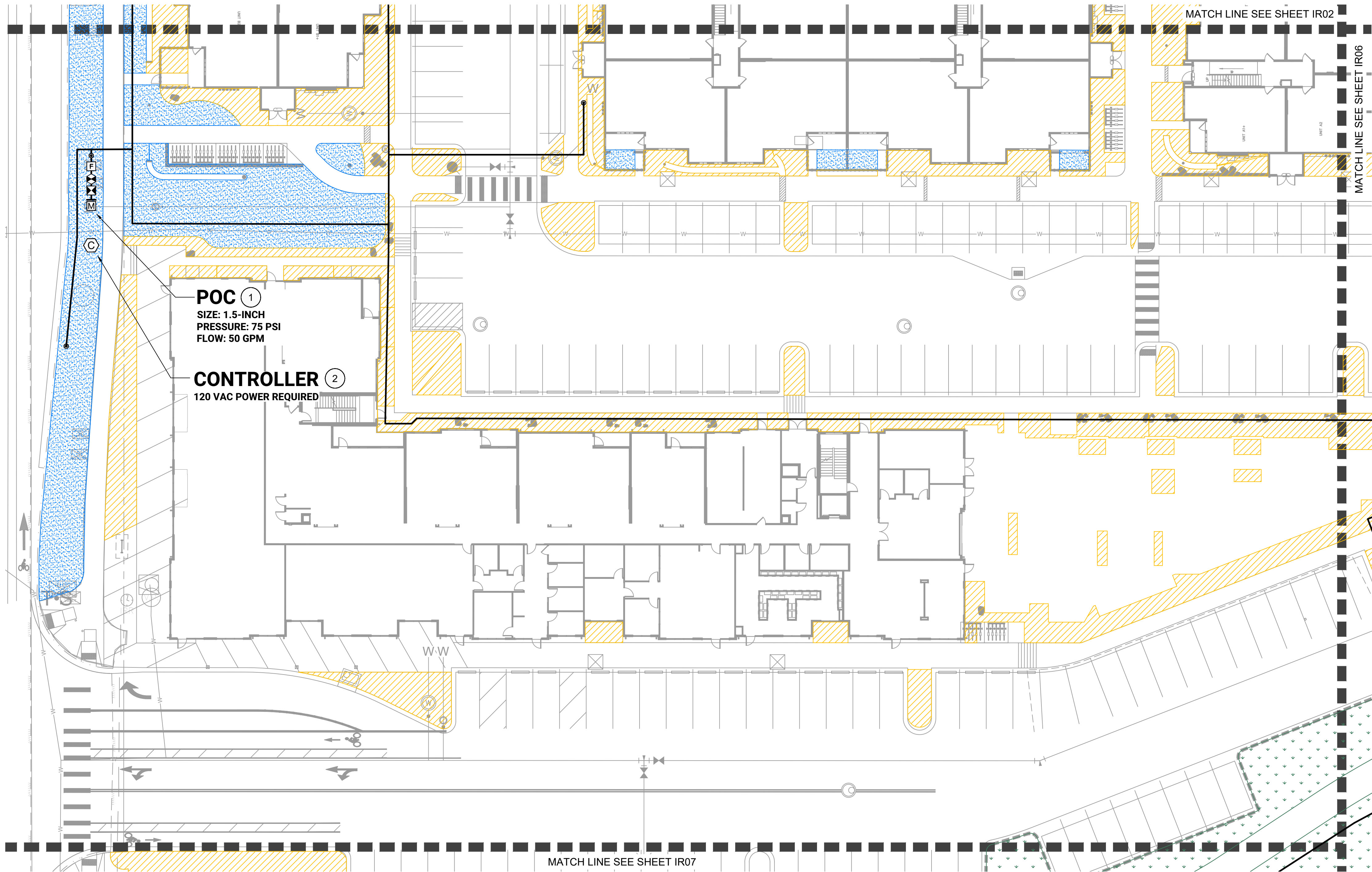
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PROJECT No.:	R20-040
DRAWN BY:	BI
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DRAWING NUMBER:	

DRAWING NUMBER:

IR04



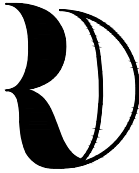
IRRIGATION HATCH LEGEND

SYMBOL	PLANT TYPE - EQUIPMENT
[Yellow hatched box]	SHRUB - POINT SOURCE DRIP
[Blue stippled box]	TURF - SPRAY/ROTARY
[Green stippled box]	NATIVE - ROTOR
[Green cross-hatched box]	DETENTION BASIN - ROTOR

THE QUARRY BY
WATERMARK

FINAL DEVELOPMENT
PLAN

FORT COLLINS, CO
PREPARED BY:


ripleydesign
LANDSCAPE ARCHITECTURE, LAND PLANNING
419 Canyon Ave, Suite 200 Fort Collins, CO 80521
phone 970.224.5828 fax 970.225.6557 www.ripleydesign.com

PLANNER

RIPLEY DESIGN INC.
Russell Lee
419 Canyon Ave, Suite 200
Fort Collins, CO 80521
p. 970.224.5828
f. 970.225.6557

APPLICANT

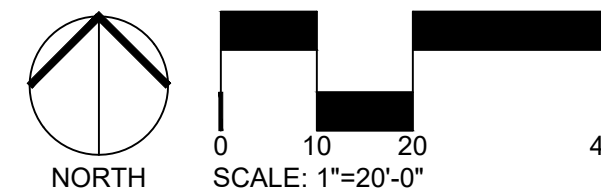
THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317. 853. 5459

ENGINEER

NORTHERN ENGINEERING
Danny Weber
301 N. Howes Street, Suite 100
Fort Collins, CO 80521
p. 970.221.6789

IRRIGATION CONSULTANT

HINES INC.
Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
p. 970.282.1800


NORTH
SCALE: 1"=20'-0"

ORIGINAL SIZE 24X36

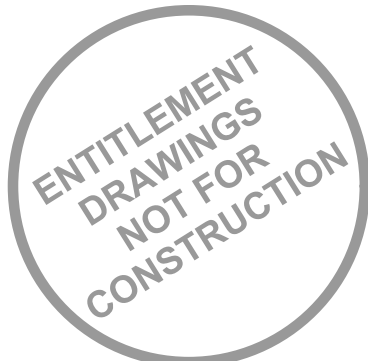
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REVISIONS

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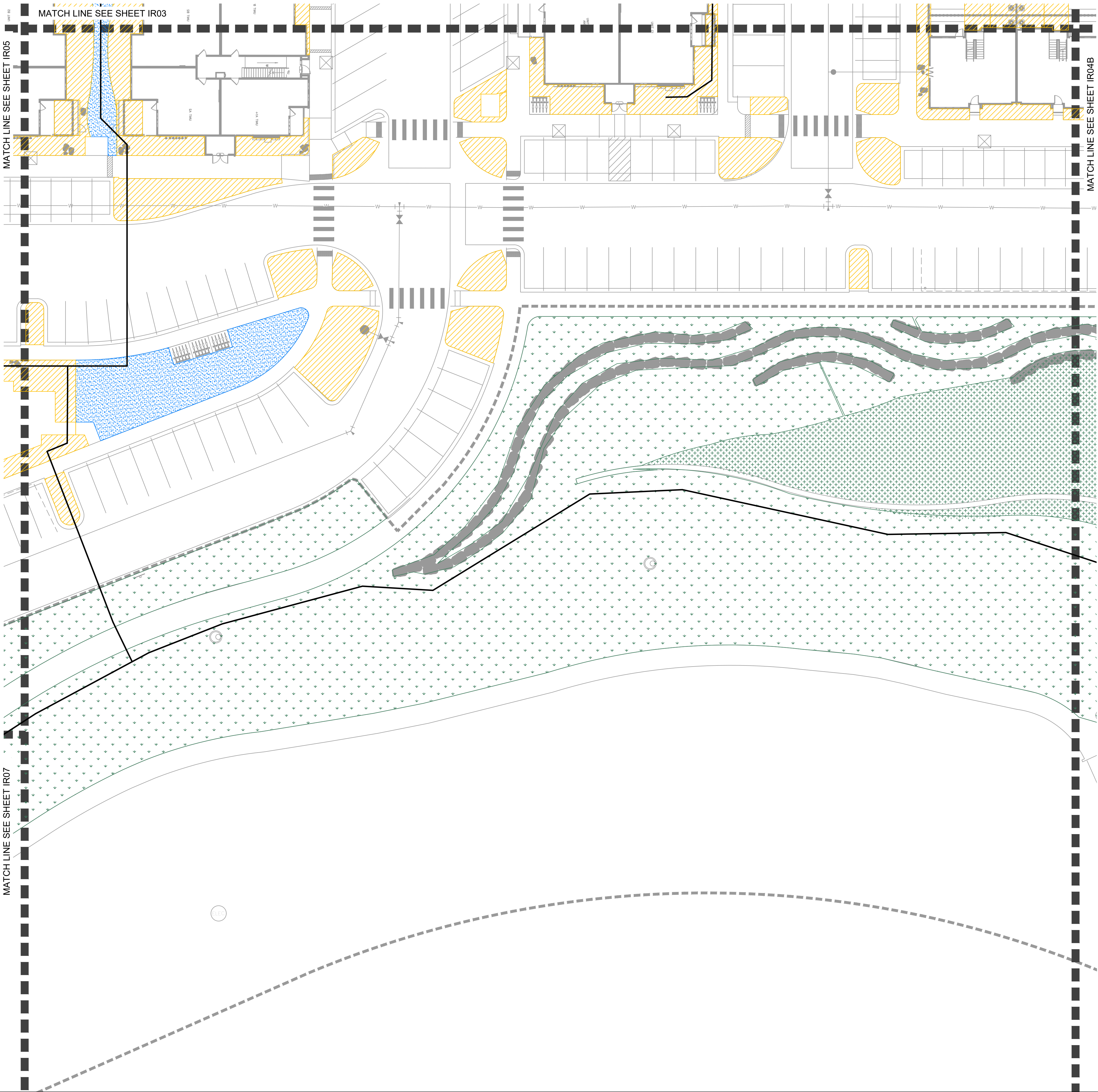
IRRIGATION PLAN

SEAL:



PROJECT No.:	R20-040
DRAWN BY:	BI
REVIEWED BY:	BJ
DRAWING NUMBER:	

IR05



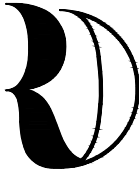
IRRIGATION HATCH LEGEND

SYMBOL	PLANT TYPE - EQUIPMENT
	SHRUB - POINT SOURCE DRIP
	TURF - SPRAY/ROTARY
	NATIVE - ROTOR
	DETENTION BASIN - ROTOR

THE QUARRY BY
WATERMARK

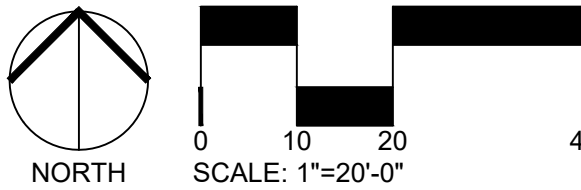
FINAL DEVELOPMENT
PLAN

FORT COLLINS, CO
PREPARED BY:



ripleydesign
LANDSCAPE ARCHITECTURE, LAND PLANNING
419 Canyon Ave, Suite 200 Fort Collins, CO 80521
phone 970.224.5628 fax 970.225.6657 www.ripleydesign.com

PLANNER RIPLEY DESIGN INC. Russell Lee 419 Canyon Ave, Suite 200 Fort Collins, CO 80521 p. 970.224.5628 f. 970.225.6657
APPLICANT THOMPSON THRIFT Jessica Tuttle 111 Monument Circle, Suite 1500 Indianapolis, IN 46204 p. 317. 853. 5459
ENGINEER NORTHERN ENGINEERING Danny Weber 301 N. Howes Street, Suite 100 Fort Collins, CO 80521 p. 970.221.6789
IRRIGATION CONSULTANT HINES INC. Brent Jeffery 323 W. Drake Road Fort Collins, CO 80526 p. 970.282.1800



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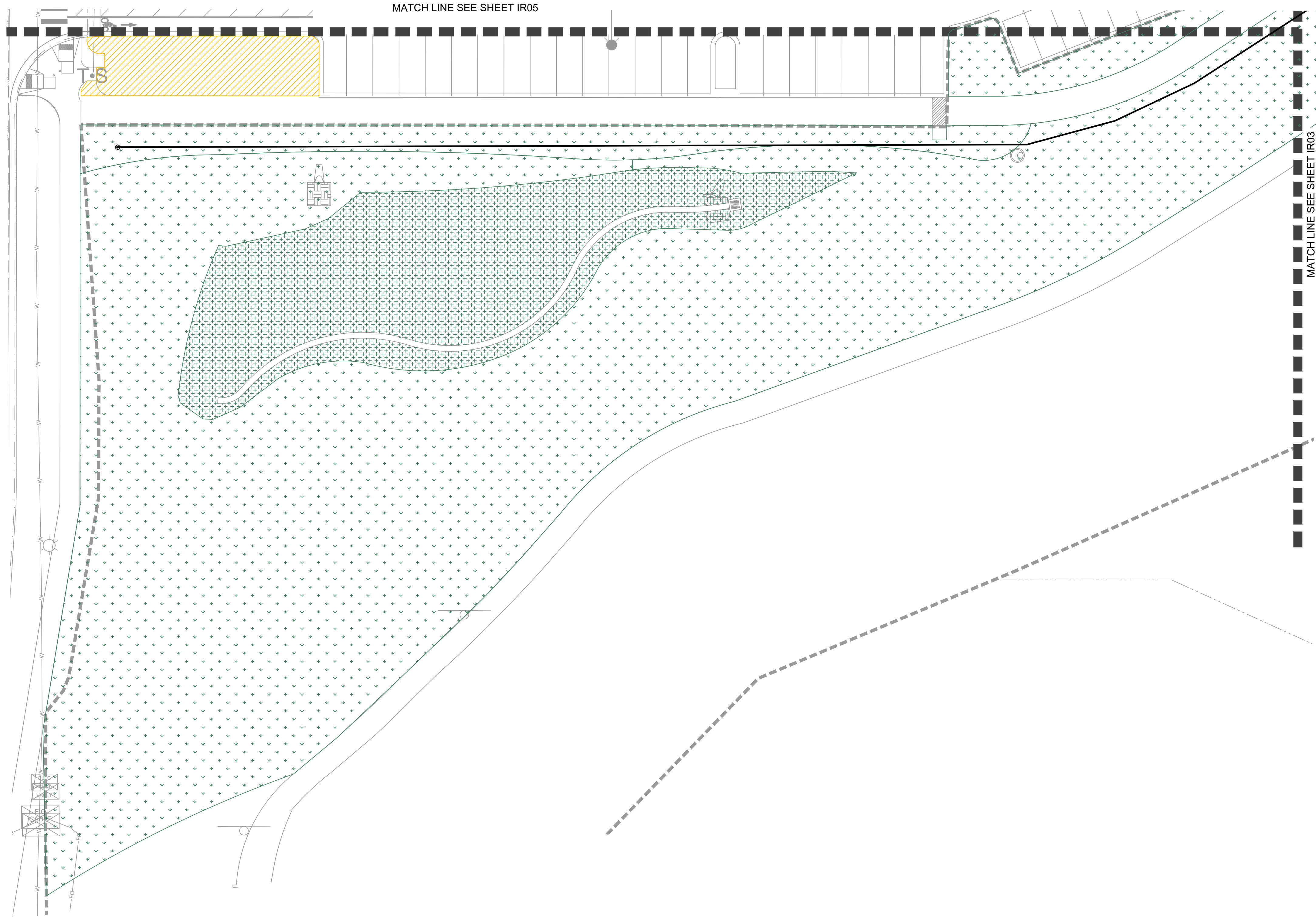
IRRIGATION PLAN

SEAL:



PROJECT No.:	R20-040
DRAWN BY:	BI
REVIEWED BY:	BJ
DRAWING NUMBER:	

IR06



IRRIGATION HATCH LEGEND

SYMBOL	PLANT TYPE - EQUIPMENT
	SHRUB - POINT SOURCE DRIP
	TURF - SPRAY/ROTARY
	NATIVE - ROTOR
	DETENTION BASIN - ROTOR

THE QUARRY BY
WATERMARK

FINAL DEVELOPMENT
PLAN

FORT COLLINS, CO
PREPARED BY:

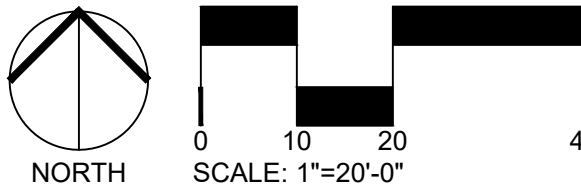
ripleydesign
LANDSCAPE ARCHITECTURE, LAND PLANNING
419 Canyon Ave, Suite 200 Fort Collins, CO 80521
phone 970.224.5828 fax 970.225.6657 www.ripleydesign.com

PLANNER
RIPLEY DESIGN INC.
Russell Lee
419 Canyon Ave, Suite 200
Fort Collins, CO 80521
p. 970.224.5828
f. 970.225.6657

APPLICANT
THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317. 853. 5459

ENGINEER
NORTHERN ENGINEERING
Danny Weber
301 N. Howes Street, Suite 100
Fort Collins, CO 80521
p. 970.221.6789

IRRIGATION CONSULTANT
HINES INC.
Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
p. 970.282.1800



ORIGINAL SIZE 24X36

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IRRIGATION PLAN

SEAL:



PROJECT No.:	R20-040
DRAWN BY:	BI
REVIEWED BY:	BJ

DRAWING NUMBER:

IR07

INSTALLATION GENERAL NOTES

1.

THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 75 PSI (PER CITY ENGINEER), AT A MAXIMUM DISCHARGE OF 50 GPM AT THE 1.5-INCH IRRIGATION POINT-OF-CONNECTION (POC). TAP, METER, BACKFLOW PREVENTER, AND MASTER VALVE SHALL ALL BE THE SAME SIZE. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
2.

READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
3.

COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4.

DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5.

THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:

A.

ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.

B.

TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.

C.

USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEES IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
6.

PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:

A.

TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.

B.

TWO (2) OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.
7.

SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.
8.

THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. PIPE SLEEVES SHALL BE SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH.
9.

INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
10.

THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
11.

INSTALL TWO (2) #14 AWG CONTROL WIRES ON STANDARD WIRE SYSTEMS OR ONE (1) #14 AWG TWO-WIRE PAIR ON TWO-WIRE SYSTEMS, FOR USE AS SPARES. INSTALL SPARE WIRES FROM CONTROLLER LOCATION TO EACH DEAD-END OF MAINLINE. COIL 3 FEET OF WIRE IN VALVE BOX.

CONSTRUCTION NOTES

- 1

THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER INSTALLED BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED, SAME SIZE AS POC. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
- 2

PEDESTAL / WALL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.

IRRIGATION PIPE SCHEDULE

SIZE	FLOW (GPM)
1-INCH	0-15
1.25-INCH	16-25
1.5-INCH	26-35
2-INCH	36-55
2.5-INCH	56-80
3-INCH	81-110
4-INCH	111-200

IF THERE IS A DISCREPANCY BETWEEN PIPE SIZES SHOWN ON THE DRAWINGS AND THIS PIPE SCHEDULE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE IRRIGATION DESIGNER FOR CLARIFICATION.

IRRIGATION LEGEND

- 

SLEEVES: CLASS 200 PVC
- 

POINT-OF-CONNECTION ASSEMBLY
- 

MAINLINE PIPE: CLASS 200 PVC
X-INCH SIZE UNLESS OTHERWISE INDICATED
- 

LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1-INCH SIZE UNLESS OTHERWISE INDICATED
- 

LATERAL PIPE TO TREE DRIP RINGS: UV RADIATION RESISTANT POLYETHYLENE
3/4-INCH SIZE UNLESS OTHERWISE INDICATED, ROUTING IS DIAGRAMMATIC
- 

LATERAL PIPE TO DRIP EMITTERS: UV RADIATION RESISTANT POLYETHYLENE
3/4-INCH SIZE UNLESS OTHERWISE INDICATED, ROUTING IS DIAGRAMMATIC
- 

UNCONNECTED PIPE CROSSING
- 

REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS:
RAIN BIRD PEB (SIZED PER PLAN)
- 

REMOTE CONTROL DRIP VALVE ASSEMBLY: RAIN BIRD XCZ-100-PRB-COM
- 

QUICK COUPLING VALVE ASSEMBLY: RAIN BIRD 5RC/5NP
- 

ISOLATION GATE VALVE ASSEMBLY: MATCO 514
- 

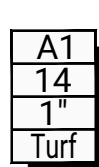
FLOW SENSOR ASSEMBLY: FLOMEC QS200 ULTRASONIC
- 

BACKFLOW PREVENTION ASSEMBLY: FEBCO 825YA
- 

WATER METER AND CURB STOP ASSEMBLY: BY OTHERS
- 

MASTER VALVE ASSEMBLY: RAIN BIRD PESB
- 

FLUSH CAP ASSEMBLY WITH DRIP INDICATOR

- 

INDICATES CONTROLLER AND STATION NUMBER

INDICATES LATERAL DISCHARGE (GPM)

INDICATES VALVE SIZE (INCHES)

INDICATES LANDSCAPE APPLICATION

- 

IRRIGATION CONTROLLER UNIT WITH RAIN/FREEZE SENSOR AND FLOW SMART MODULE
CONTROLLER: RAIN BIRD ESP-LXMEF
- 

INLINE TREE DRIP RING ASSEMBLY: RAIN BIRD XFS-CV-09-12
- 

WEATHER SENSOR: CONTACT HINES INC FOR WEATHER SENSOR SPECIFICATION

- 

POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES 8 NOZZLE
PRESSURE: 30 PSI RADIUS: 8 FEET
FLOW (GPM): Q-0.26 H-0.52 F-1.05
- 

POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES 10 NOZZLE
PRESSURE: 30 PSI RADIUS: 10 FEET
FLOW (GPM): Q-0.41 H-0.82 F-1.64
- 

POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES 12 NOZZLE
PRESSURE: 30 PSI RADIUS: 12 FEET
FLOW (GPM): Q-0.65 H-1.30 F-2.60
- 

POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES 15 NOZZLE
PRESSURE: 30 PSI RADIUS: 15 FEET
FLOW (GPM): Q-0.92 H-1.85 F-3.70
- 

POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/MPR SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 4 FEET X 15 FEET
FLOW (GPM): HEVAN08-1.17 HEVAN10-1.78 HEVAN12-2.37 HEVAN15-3.70
- 

POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/MPR SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 4 FEET X 15 FEET
FLOW (GPM): EST-0.61 SST-1.21
- 

POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV W/MP1000 NOZZLES
PRESSURE: 40 PSI RADIUS: 13 FEET TO 15 FEET
FLOW (GPM): M-0.42 L-0.63 O-0.84
- 

POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV W/MP2000 NOZZLES
PRESSURE: 40 PSI RADIUS: 13 FEET TO 21 FEET
FLOW (GPM): K-0.77 G-1.10 R-1.48
- 

POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV W/MP3000 NOZZLES
PRESSURE: 40 PSI RADIUS: 22 FEET TO 30 FEET
FLOW (GPM): B-1.82 Y-2.73 A-3.64
- 

POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV W/MP3500 NOZZLE
PRESSURE: 40 PSI RADIUS: 31 FEET TO 35 FEET
FLOW (GPM): 90°-1.28 180°-2.86 210°-3.29
- 

POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV W/MPCORNER NOZZLE
PRESSURE: 40 PSI RADIUS: 8 FEET TO 14 FEET
FLOW (GPM): 45°-0.19 90°-0.39 105°-0.45
- 

POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV W/MPSTRIP NOZZLES
PRESSURE: 40 PSI RADIUS: ADJUSTABLE RECTANGULAR SPRAY
FLOW (GPM): SST - 4'X24'-0.34 5'X30'-0.47 LCS/RCS - 4'X12'-0.17 5'X15'-0.23

POP-UP GEAR DRIVEN ROTORS: HUNTER I-20-06-SS		
PRESSURE: 45 PSI		
NOZZLE	RADIUS	FLOW
	1.5 31'	1.5 GPM
	2.0 34'	2.0 GPM
	2.5 35'	2.5 GPM
	3.0 38'	3.0 GPM
	4.0 40'	4.0 GPM
	5.0 42'	5.0 GPM
	6.0 43'	6.0 GPM
	8.0 44'	8.0 GPM

IRRIGATION HATCH LEGEND

- 

SHRUB - POINT SOURCE DRIP
- 

TURF - SPRAY/ROTARY
- 

NATIVE - ROTOR
- 

DETENTION BASIN - ROTOR

THE QUARRY BY WATERMARK

FINAL DEVELOPMENT PLAN

FORT COLLINS, CO

PREPARED BY:



PLANNER

RIPLEY DESIGN INC.
Russell Lee
419 Canyon Ave, Suite 200
Fort Collins, CO 80521
p. 970.224.5628
f. 970.225.6657

APPLICANT

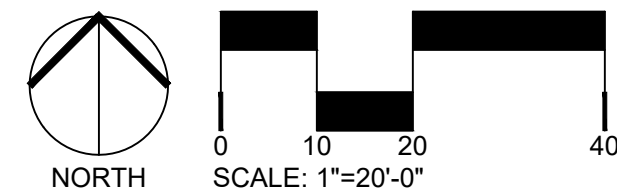
THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317. 853. 5459

ENGINEER

NORTHERN ENGINEERING
Danny Weber
301 N. Howes Street, Suite 100
Fort Collins, CO 80521
p. 970.221.6789

IRRIGATION CONSULTANT

HINES INC.
Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
p. 970.282.1800



ORIGINAL SIZE 24X36

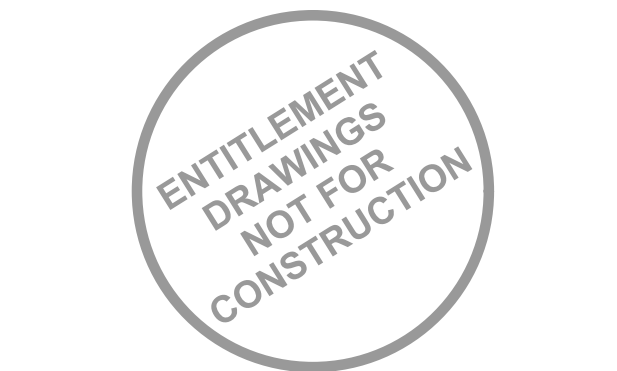
ISSUED	
No.	DESCRIPTION
01	100% DD
02	FDP SUBMITTAL

REVISIONS

No.	DESCRIPTION	DATE

IRRIGATION LEGEND & NOTES

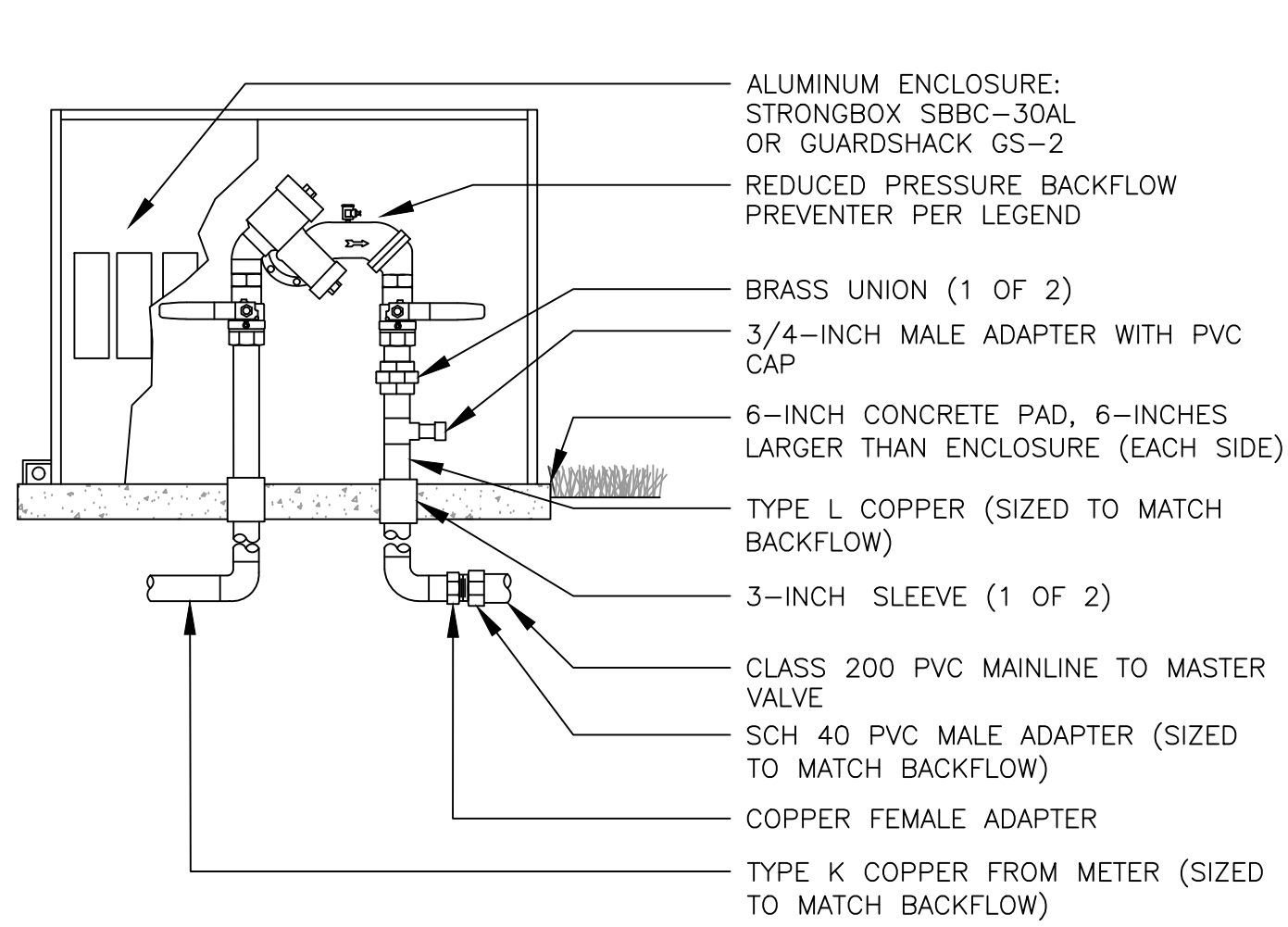
SEAL:



PROJECT No.:	R20-040
DRAWN BY:	BI
REVIEWED BY:	BJ

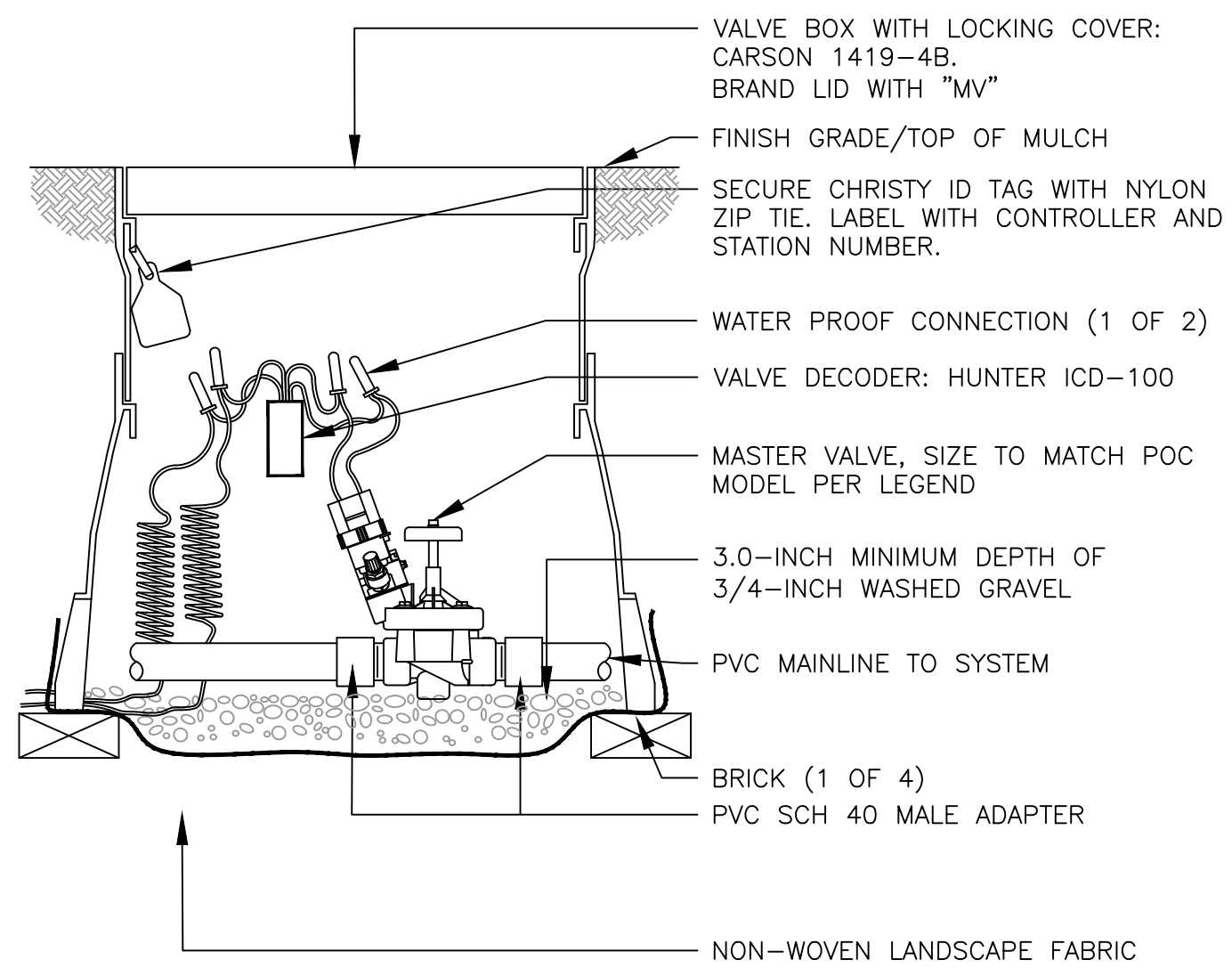
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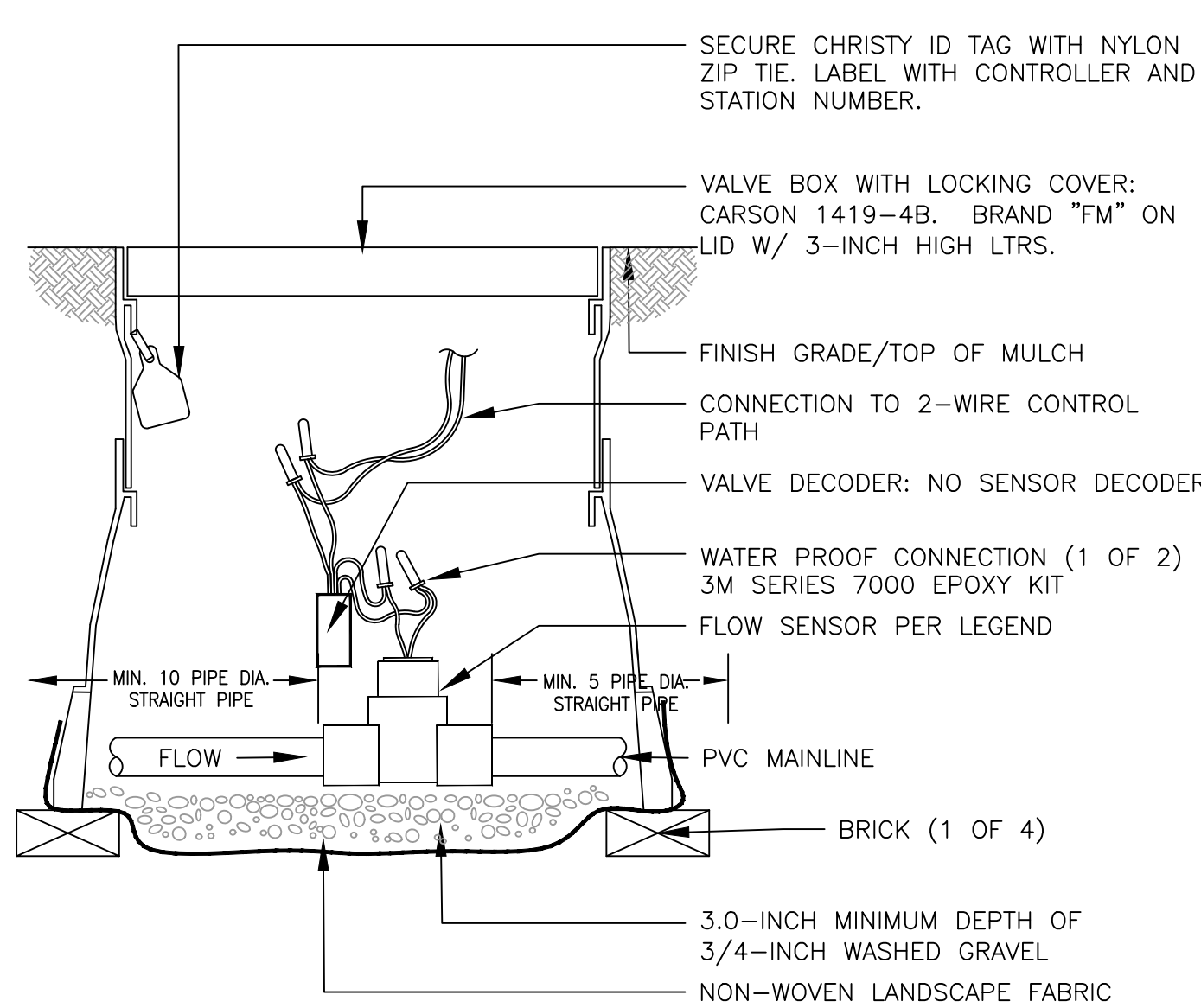


- NOTES:
1. INSTALL BACKFLOW DEVICE IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
 2. SLOPE TOP SURFACE OF PAD AT 0.5 % WITH BROOM FINISH.
 3. MAKE PIPE SLEEVES WITH 1-1/2 INCH LARGER DIAMETER PIPE THAN PENETRATING PIPE SIZE.
 4. ALL HINGED CONNECTION LOCATIONS AND HARDWARE TO BE TAMPER PROOF.
 5. ALL WELD JOINTS SHALL BE CONTINUOUS AND GROUND SMOOTH.

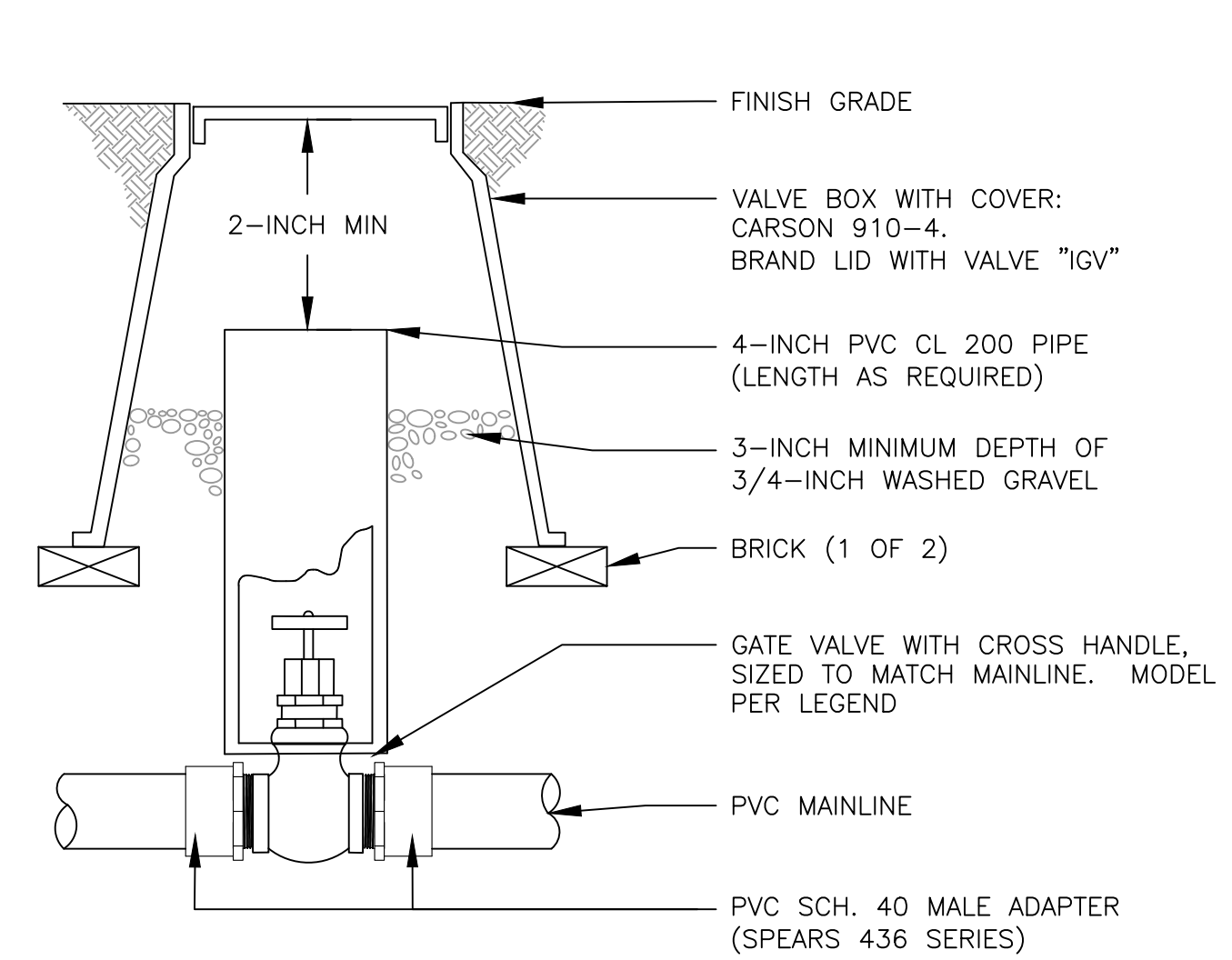
1 BACKFLOW PREVENTION UNIT ASSEMBLY



2 MASTER VALVE ASSEMBLY

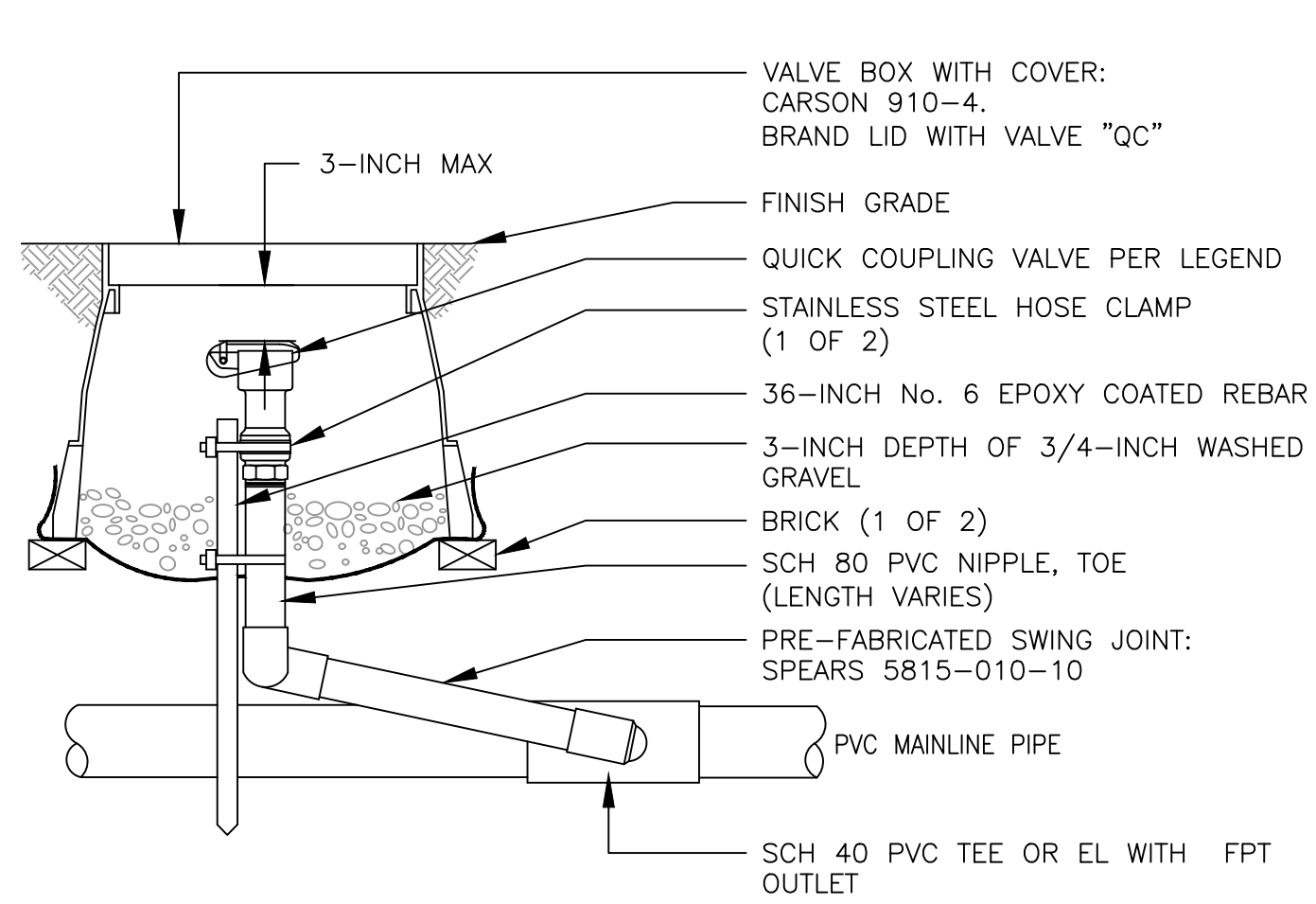


3 FLOW SENSOR ASSEMBLY

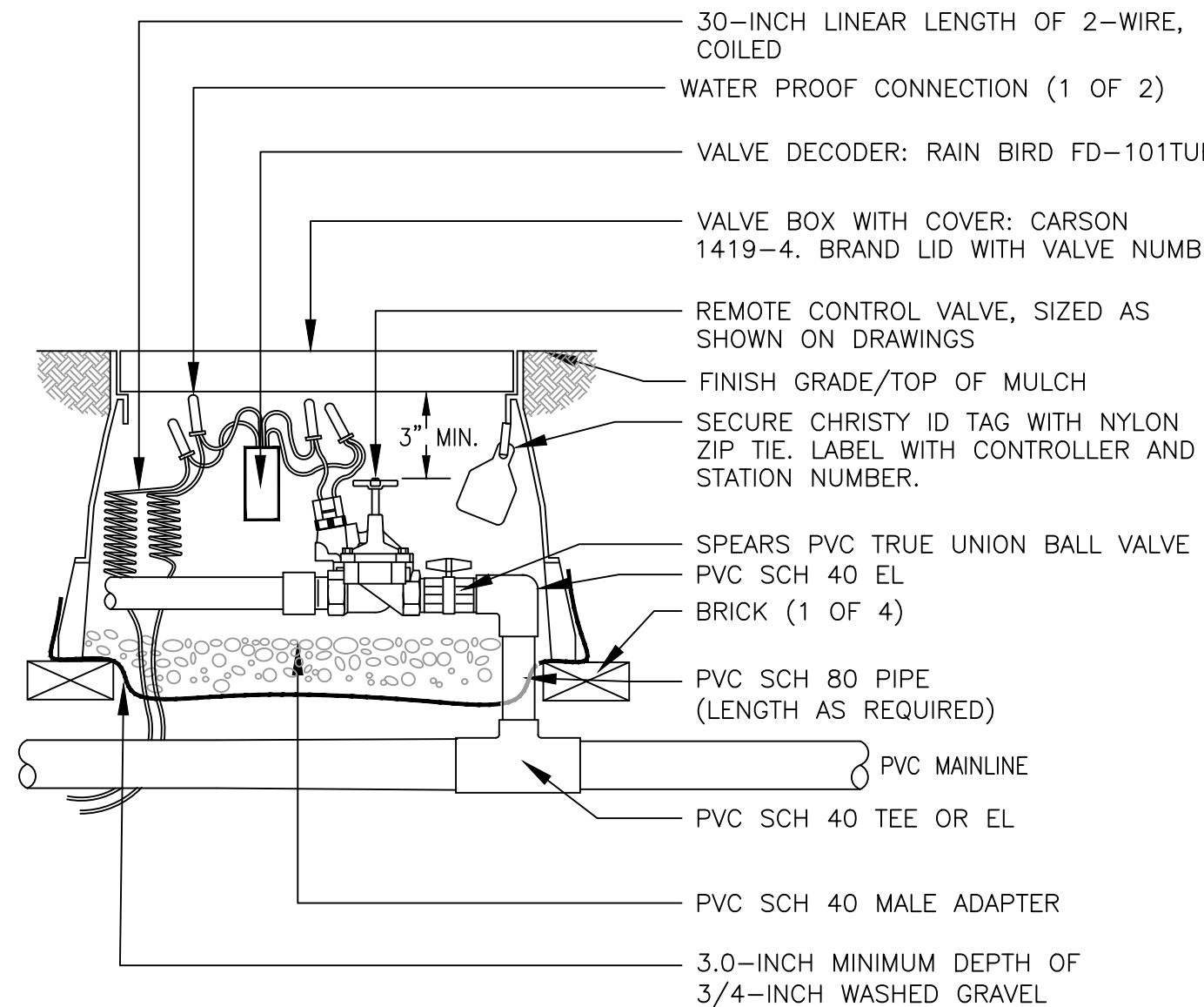


- NOTES:
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

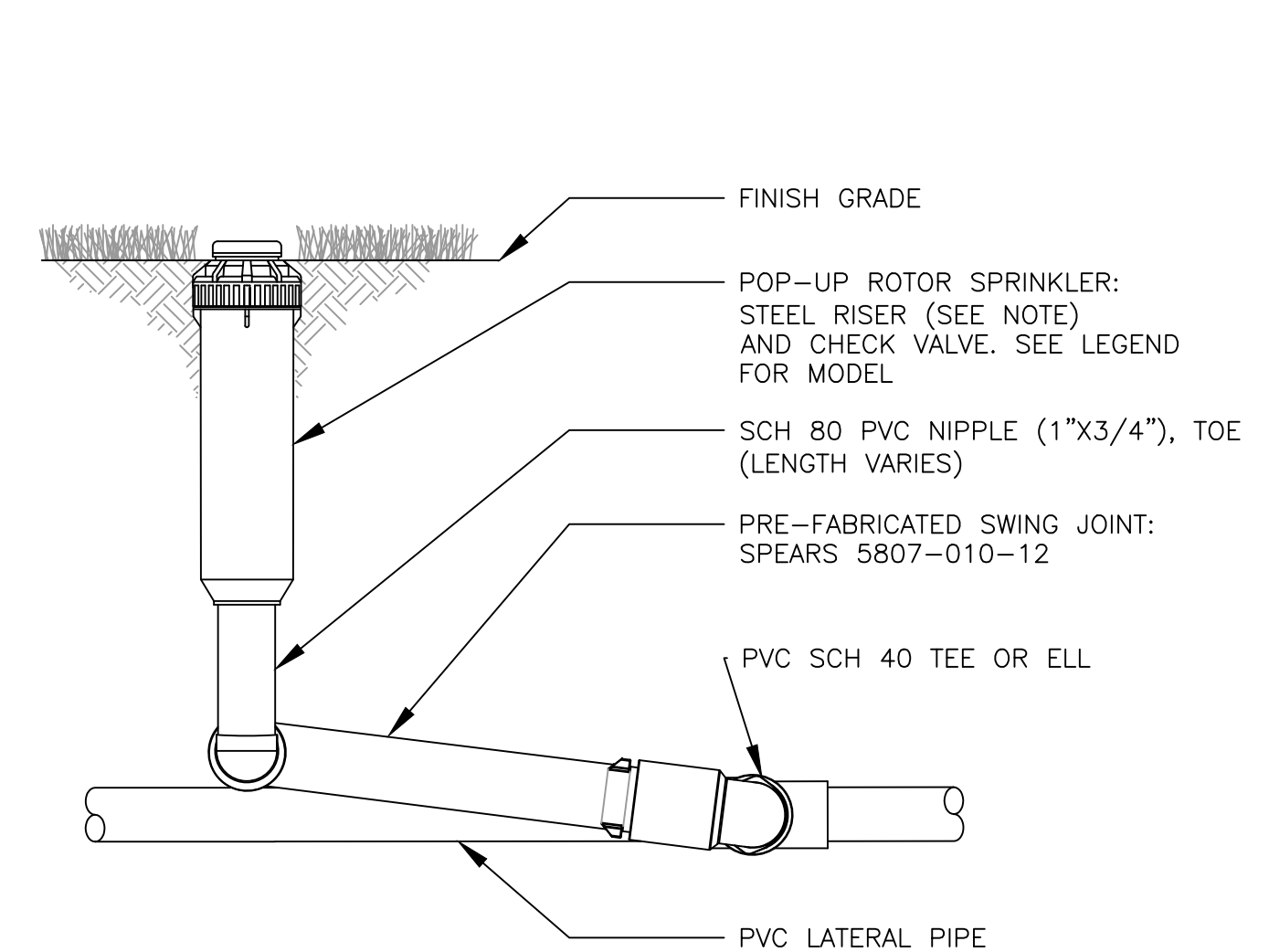
4 ISOLATION GATE VALVE ASSEMBLY 2.5-INCH MAINLINE AND SMALLER



5 QUICK COUPLING VALVE ASSEMBLY

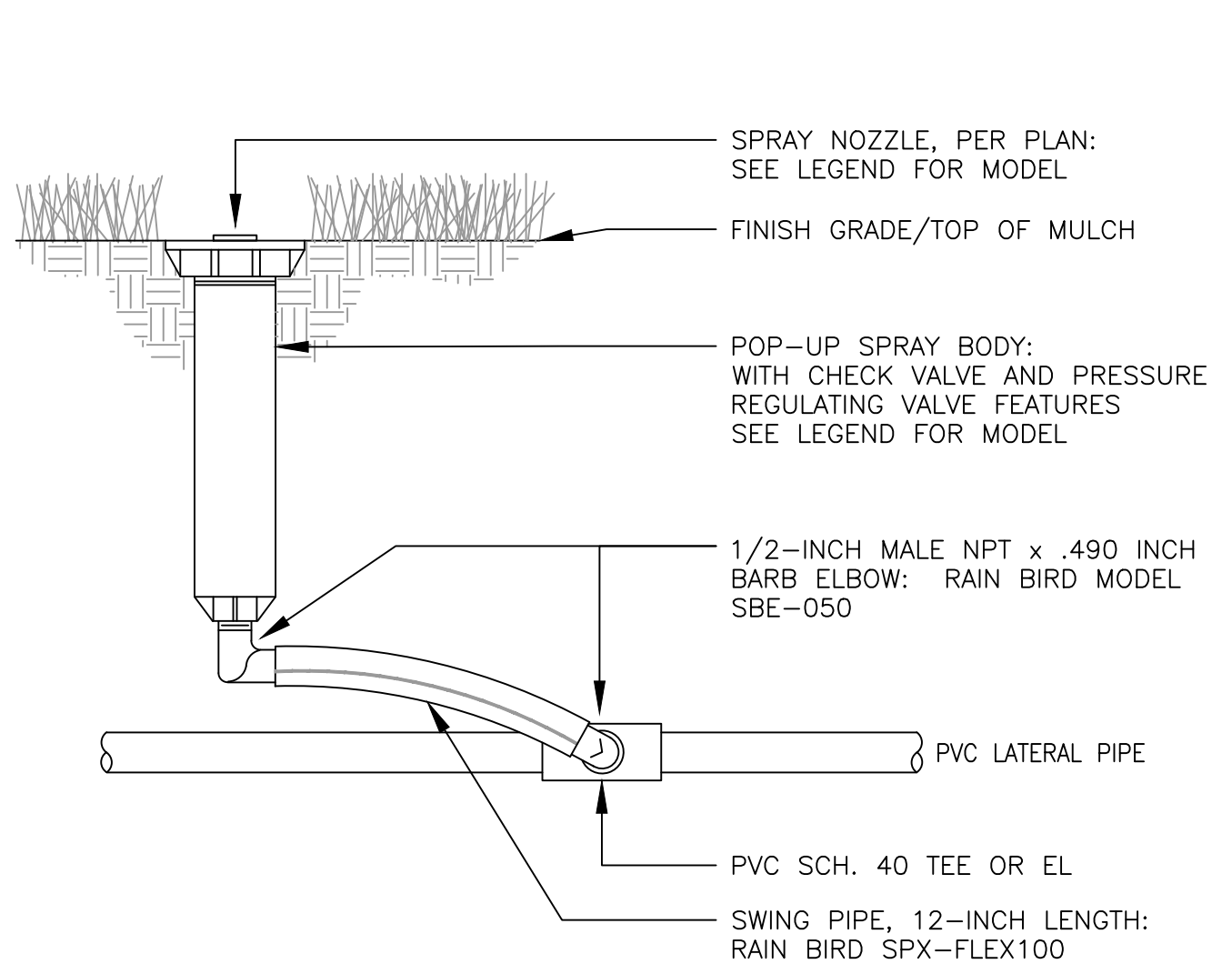


6 REMOTE CONTROL TURF VALVE ASSEMBLY

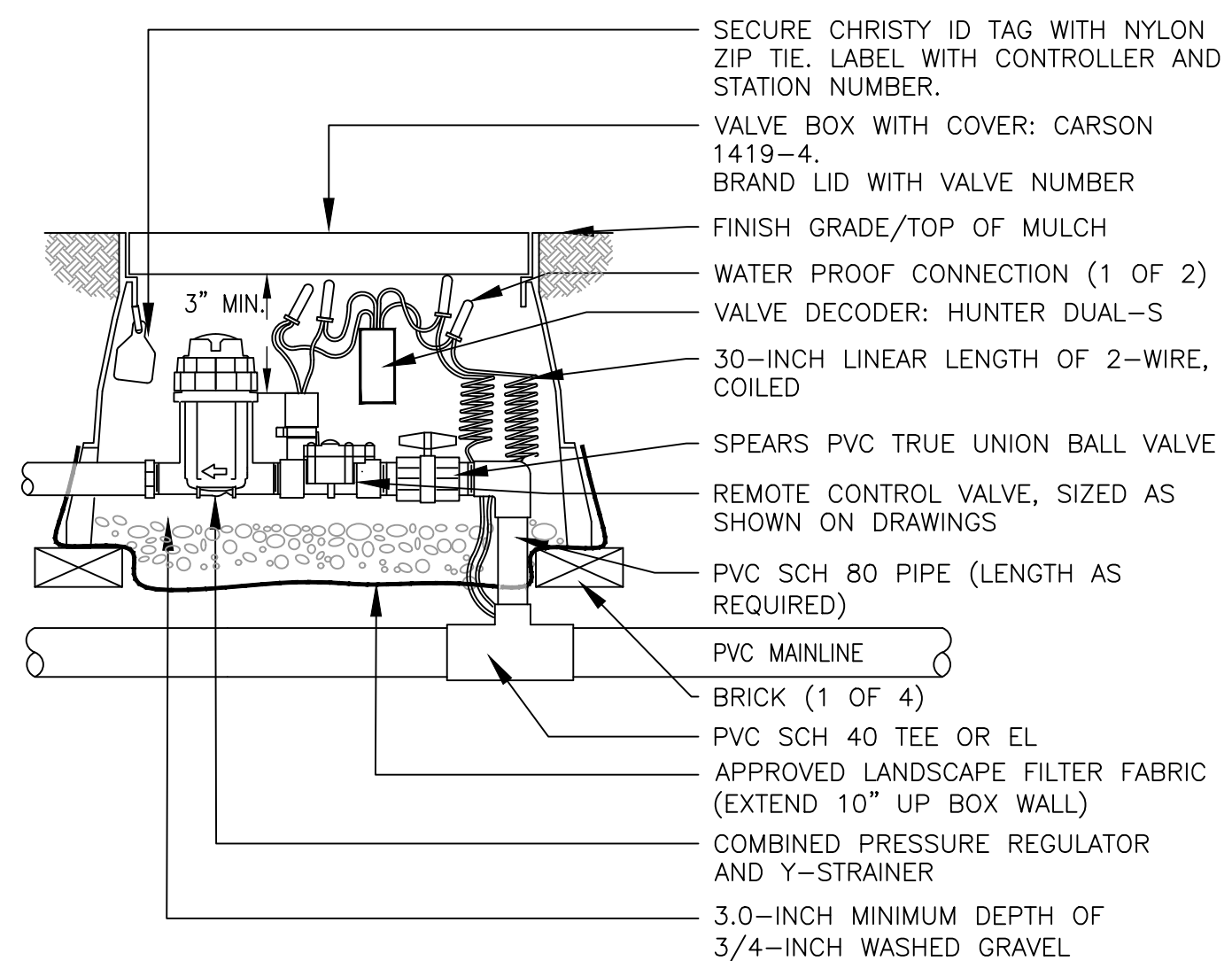


- NOTES:
1. INSTALL PLASTIC RISERS FOR ROTORS IN NATIVE AREAS.

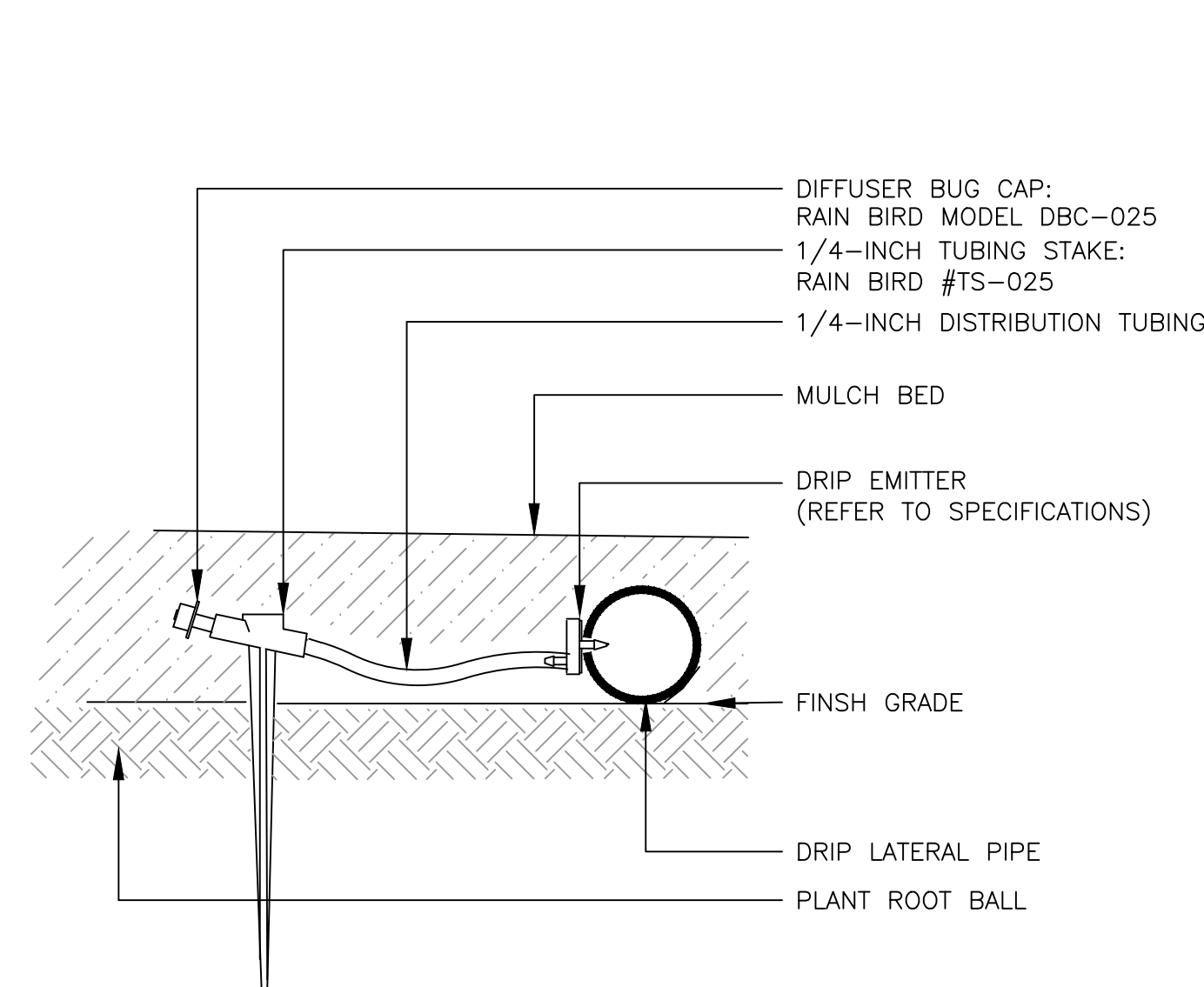
7 6-INCH GEAR DRIVEN ROTOR ASSEMBLY



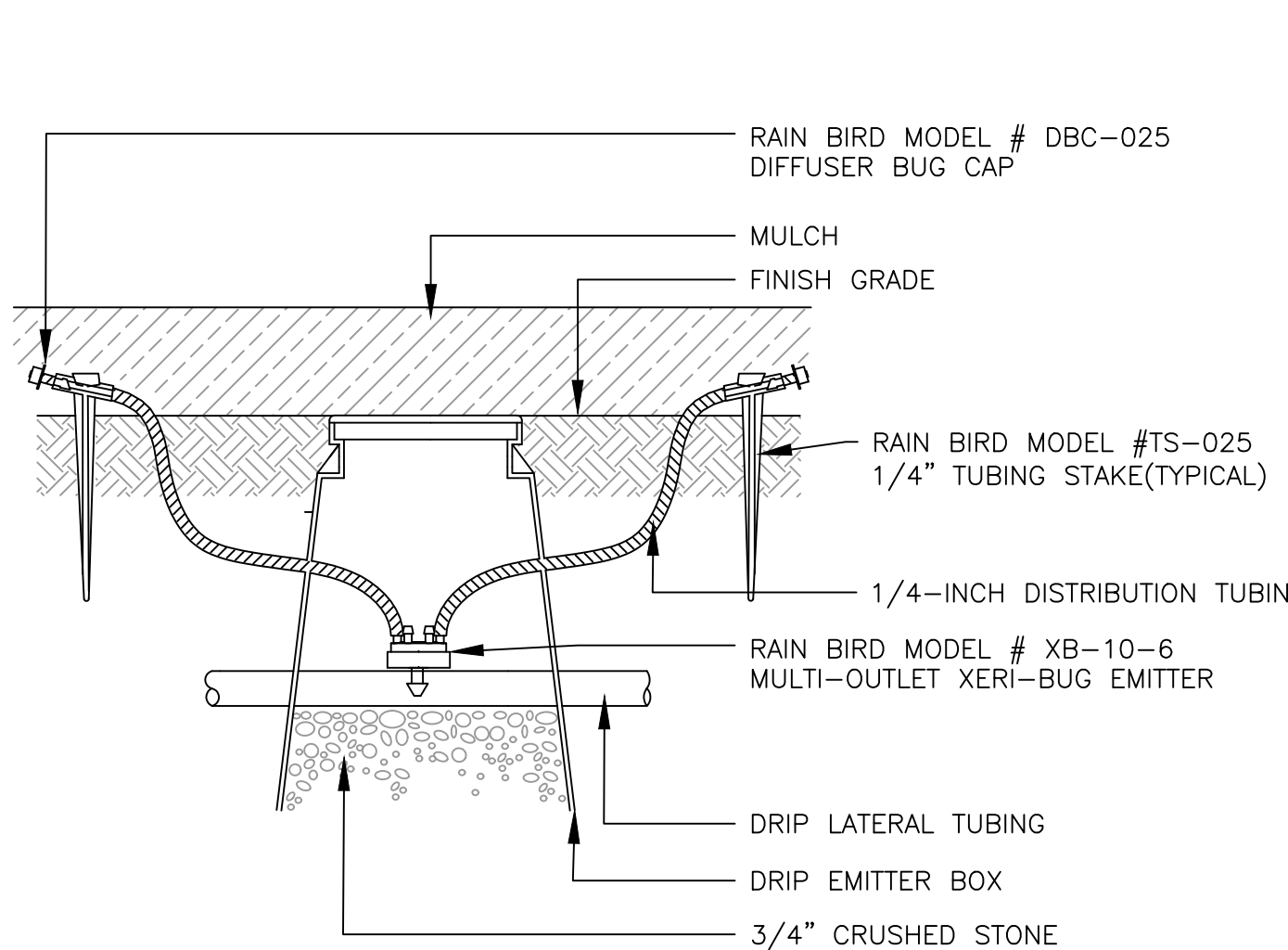
8 6-INCH POP UP SPRAY SPRINKLER ASSEMBLY



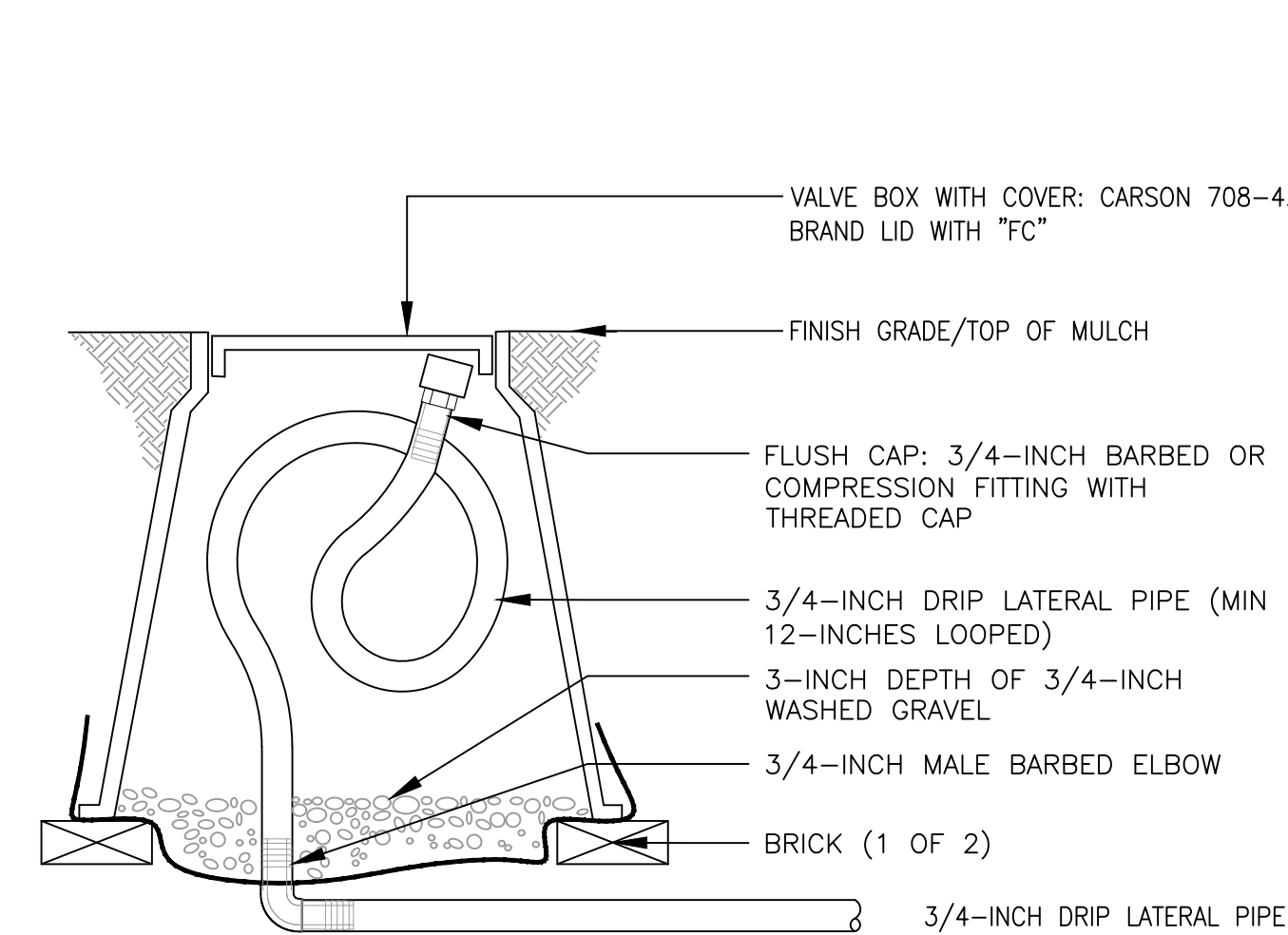
9 REMOTE CONTROL DRIP VALVE ASSEMBLY



10 SINGLE OUTLET DRIP EMITTER ASSEMBLY



11 MULTI-OUTLET DRIP EMITTER ASSEMBLY FOR TREES IN BEDS



- NOTE:
1. LOOP IRRIGATION DRIP TUBING INSIDE VALVE BOX FOR EXTENSION OUTSIDE OF BOX DURING BLOWOUT.

12 DRIP FLUSH CAP ASSEMBLY

THE QUARRY BY WATERMARK

FINAL DEVELOPMENT PLAN

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PLANNER

RIPLY DESIGN INC.
Russell Lee
419 Canyon Ave., Suite 200
Fort Collins, CO 80521
p. 970.224.5628
f. 970.225.6557

APPLICANT

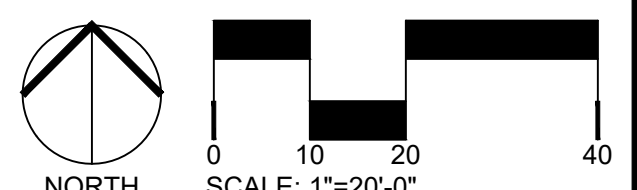
THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317.853.5459

ENGINEER

NORTHERN ENGINEERING
Danny Weber
301 N. Howes Street, Suite 100
Fort Collins, CO 80521
p. 970.221.6789

IRRIGATION CONSULTANT

HINES INC.
Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
p. 970.282.1800



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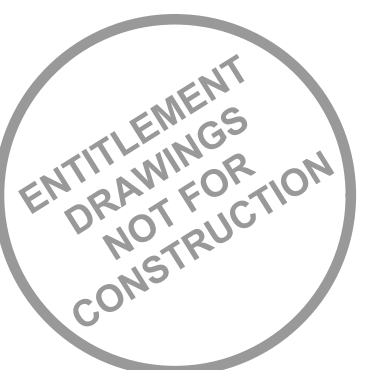
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No.	DESCRIPTION	DATE
01	100% DD	08.23.2021
02	FDP SUBMITTAL	09.01.2021

REVISIONS

No.	DESCRIPTION	DATE

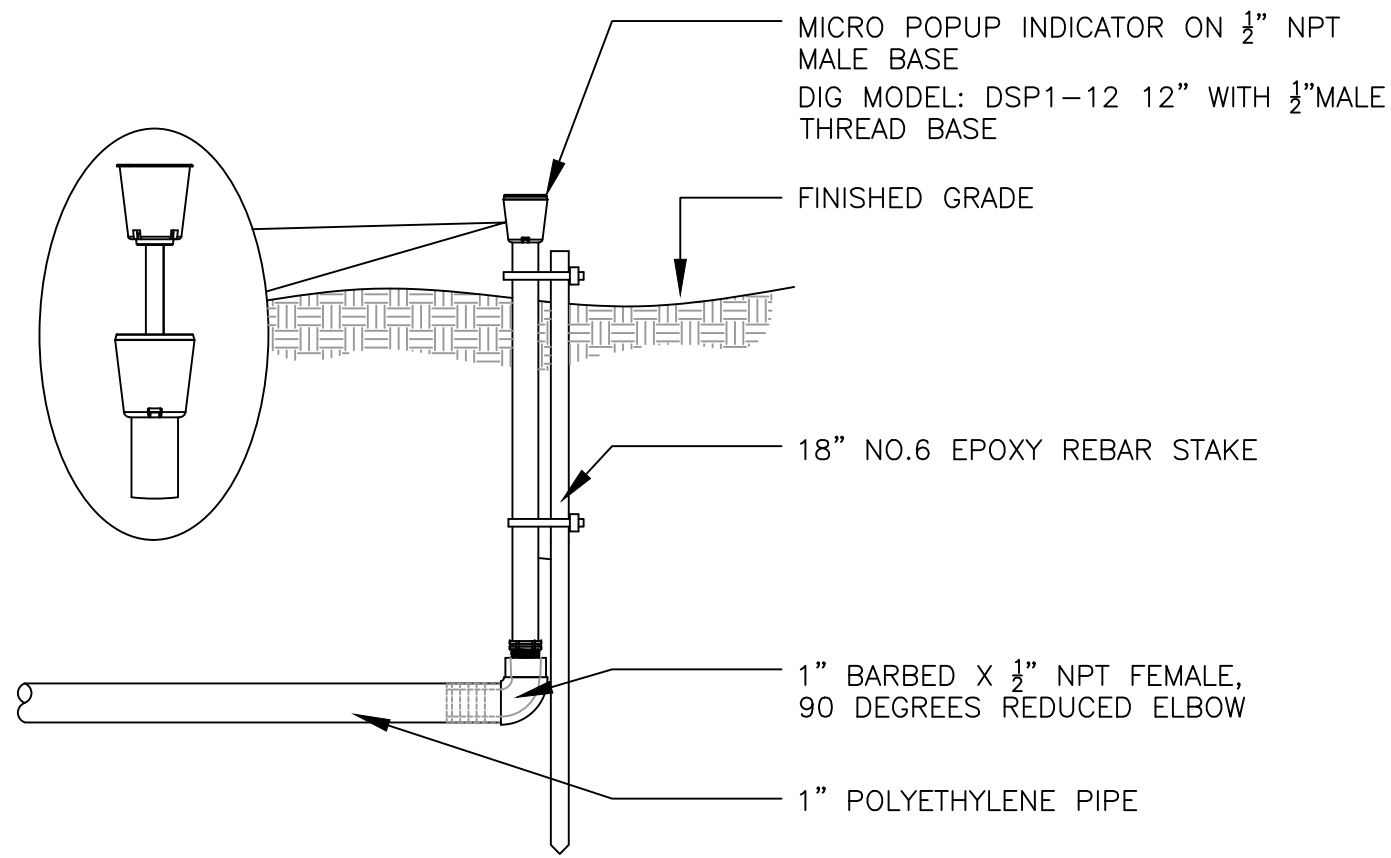
IRRIGATION DETAILS

SEAL:



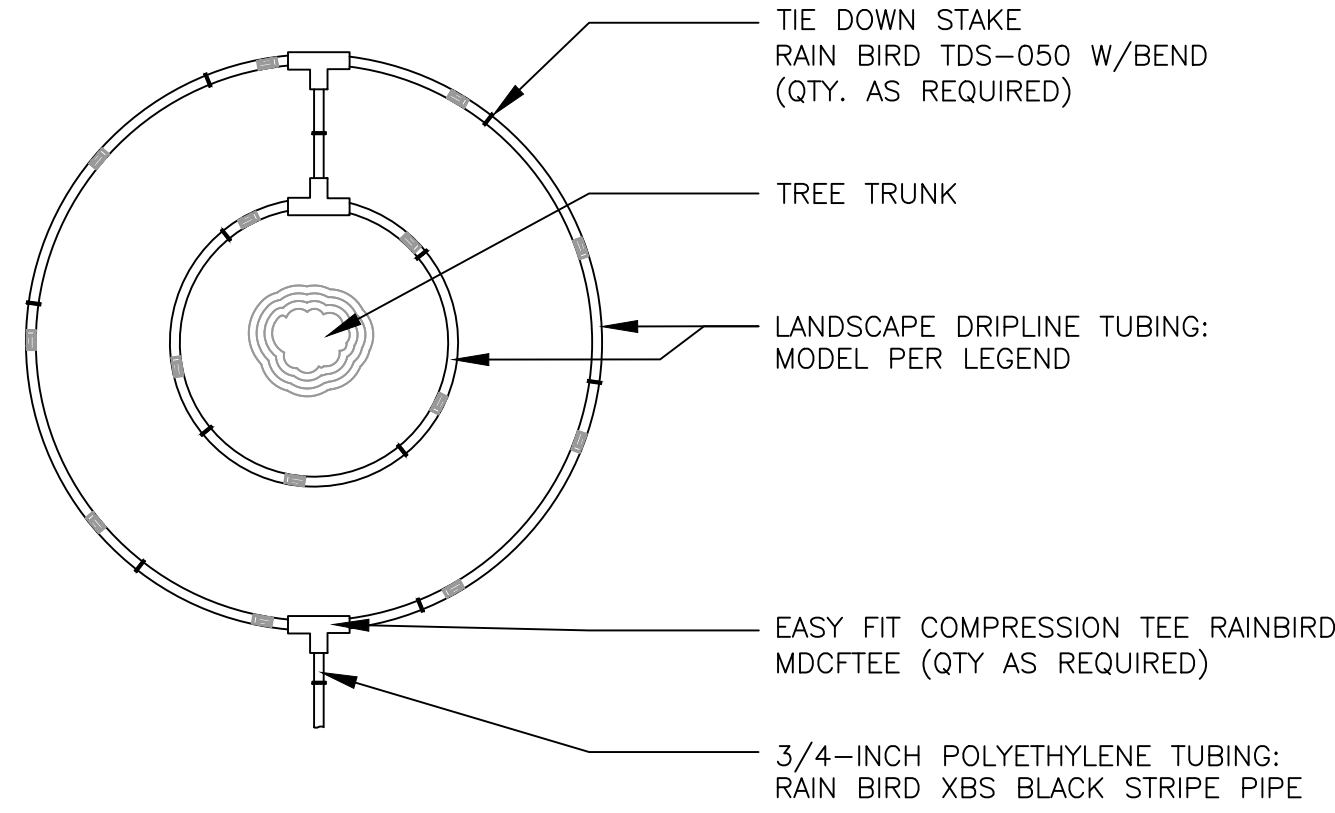
PROJECT No.:	R20-040
DRAWN BY:	BI
REVIEWED BY:	BJ
DRAWING NUMBER:	

IR09

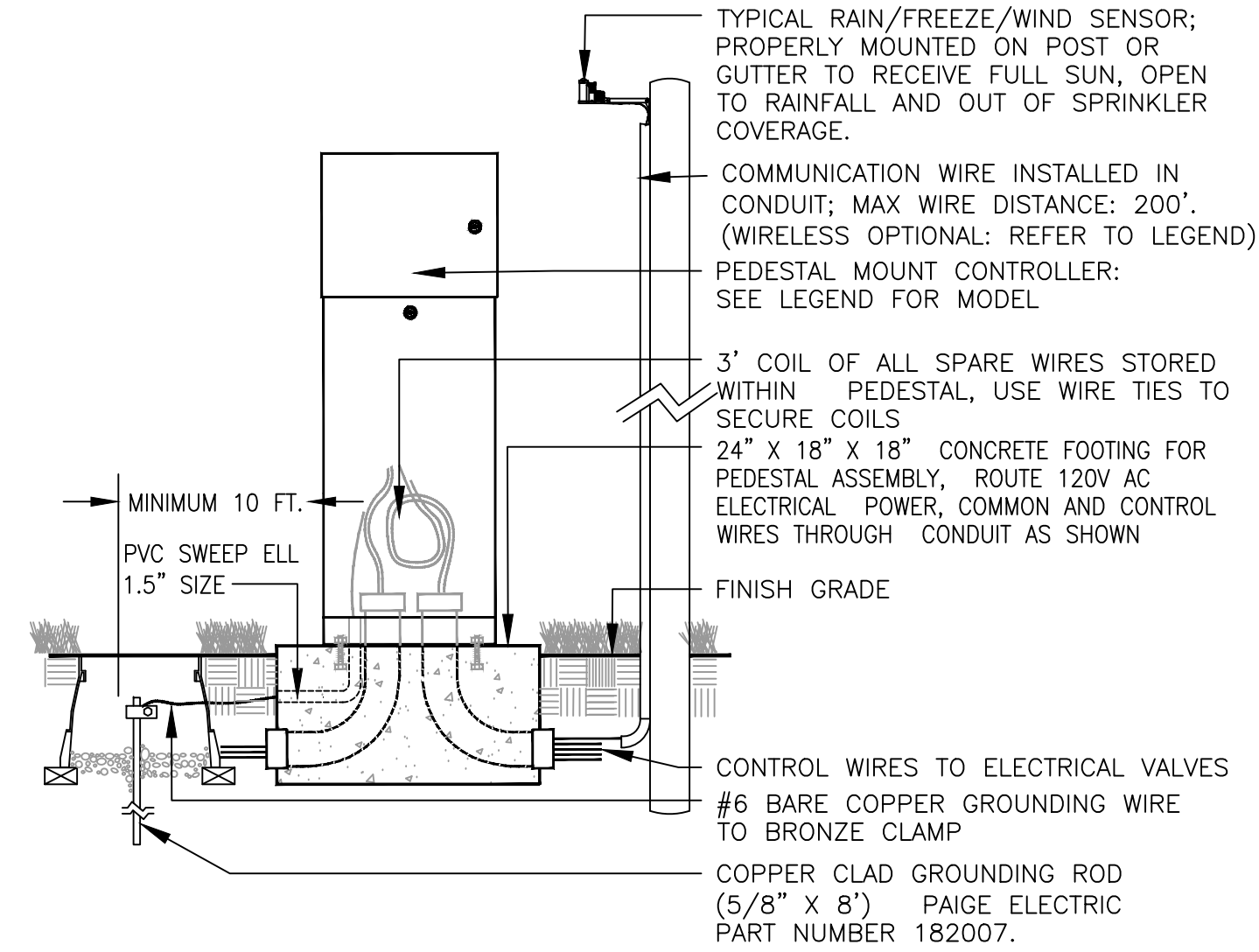


PLANT TYPE	EMITTERS PER PLANT	GPH PER EMITTER	TOTAL GPH PER PLANT
TREES 2" CAL	4 SINGLE	1 GPH	4 GPH
LARGE SHRUBS 5 GAL	2 SINGLE	1 GPH	2 GPH
SMALL SHRUBS 1 GAL	1 SINGLE	1 GPH	1 GPH
GC/PERENNIAL	1 SINGLE	1 GPH	1 GPH
CACTI	1 SINGLE	0.5 GPH	0.5 GPH

- NOTES:
1. ALL EMISSION POINTS TO BE LOCATED ON THE UPHILL SIDE OF PLANT MATERIAL.
 2. ALL EMITTER QUANTITIES AND FLOW RATES ARE FOR RECOMMENDATION ONLY. THE CONTRACTOR SHALL CONSULT AND CONFIRM WITH LOCAL PRACTICE PRIOR TO INSTALLATION.

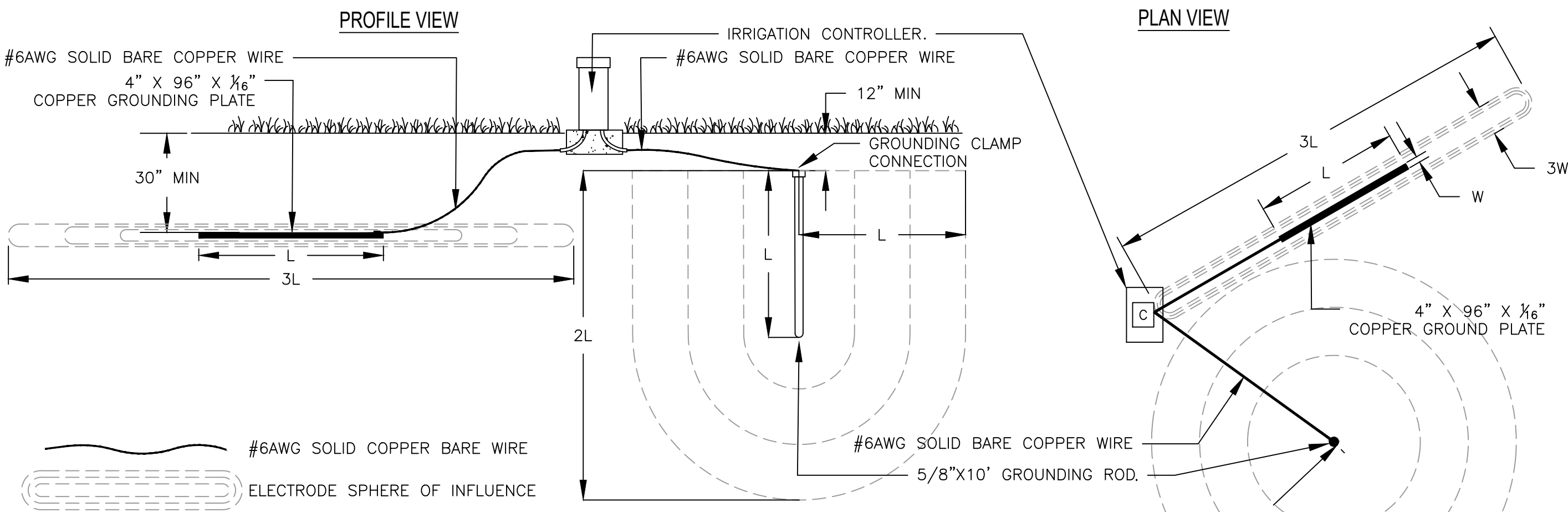


- NOTE:
1. CONTRACTOR SHALL INSTALL ALL DRIP TUBING IN TURF AND NATIVE AREAS 2-3" BELOW GRADE.
 2. DIAMETER OF DRIPLINE RINGS ARE DEPENDANT ON TREE CANOPY SIZE.



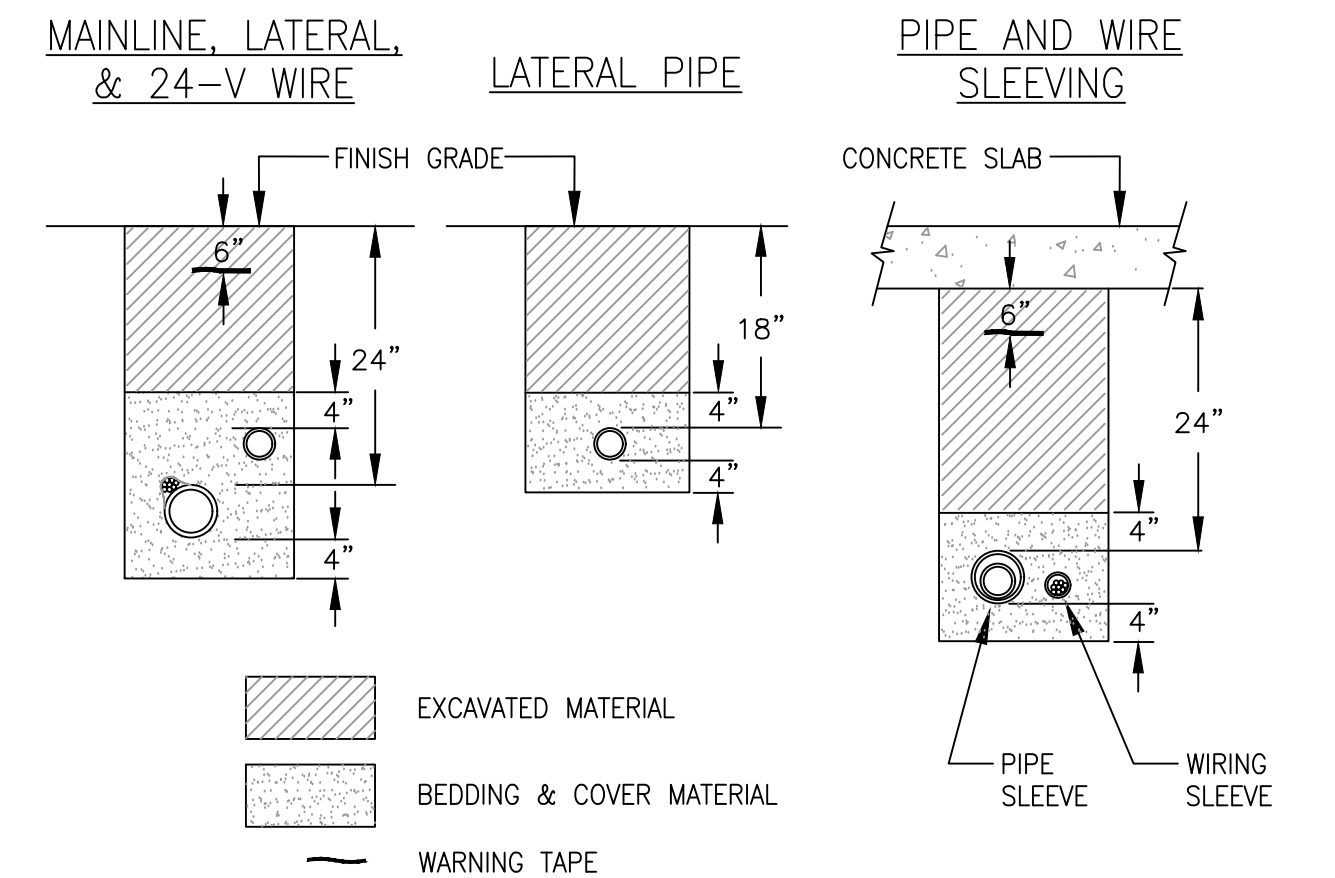
- NOTES:
1. INSTALL RAIN SENSOR ON TREATED 4X4 POST IF CONTROLLER IS IN TURF AREA. POST TO BE MOUNTED IN SHRUB BED TO AVOID BEING IRRIGATED BY OVERHEAD SPRINKLERS.

13 DRIP SYSTEM OPERATION INDICATOR



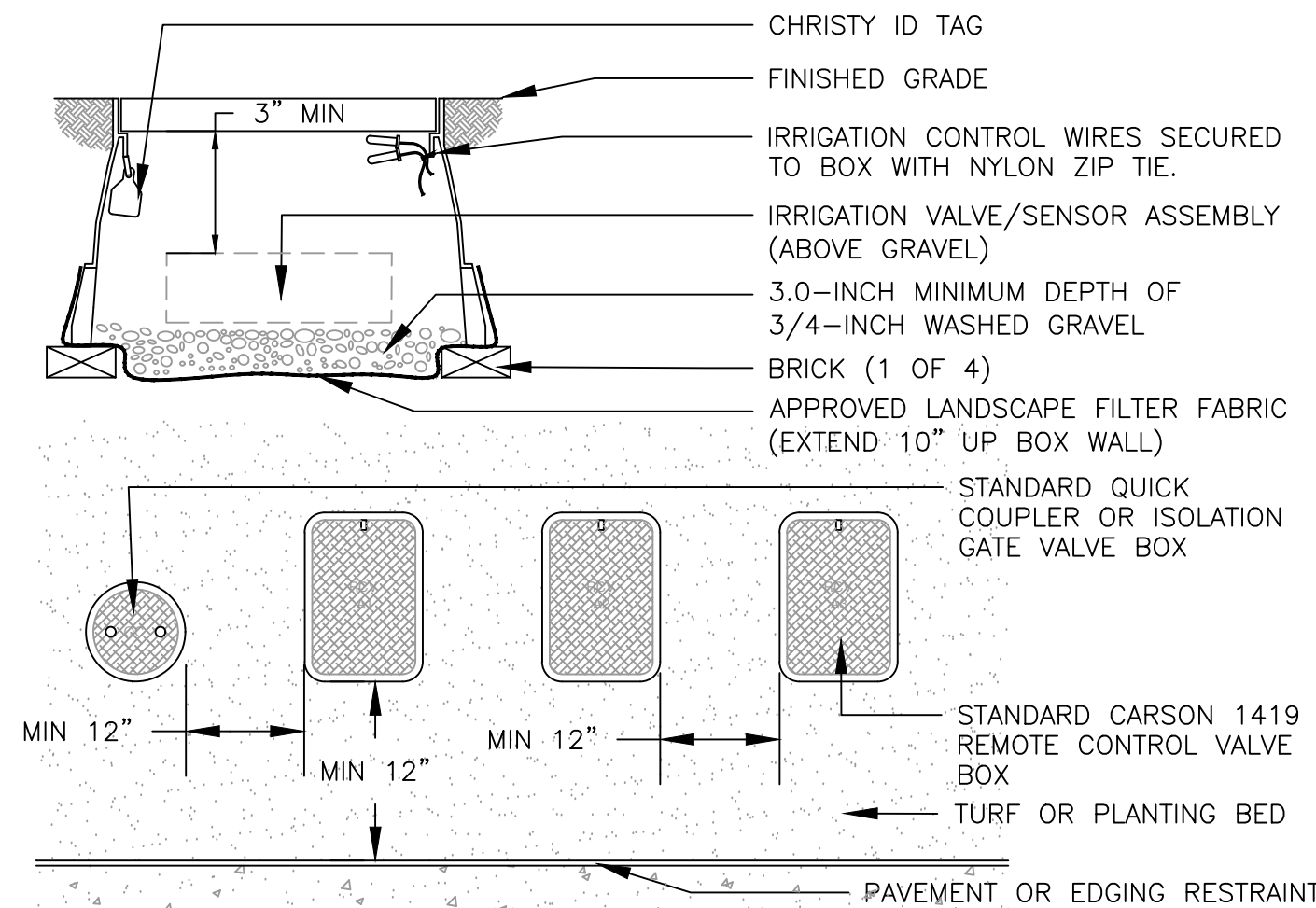
- NOTES:
1. INSTALL GROUNDING ROD OR PLATE BASED ON SITE CONDITIONS, DO NOT INSTALL BOTH.
 2. DO NOT INSTALL ANY OTHER WIRE OR CABLES INSIDE THE SPHERE OF INFLUENCE.
 3. INSTALL GROUNDING PLATE AT A MINIMUM OF 30-INCHES BELOW GRADE OR BELOW FROST-LINE, WHICHEVER IS DEEPER.
 4. TYPICAL INSTALLATION SHOWN FOR AN IRRIGATION CONTROLLER CAPACITY OF 64 STATIONS OR LESS, INSTALL AN ADDITIONAL GROUNDING ROD/PLATE PER 64 STATIONS.

17 TYPICAL IRRIGATION CONTROLLER GROUNDING ROD OR PLATE INSTALLATION



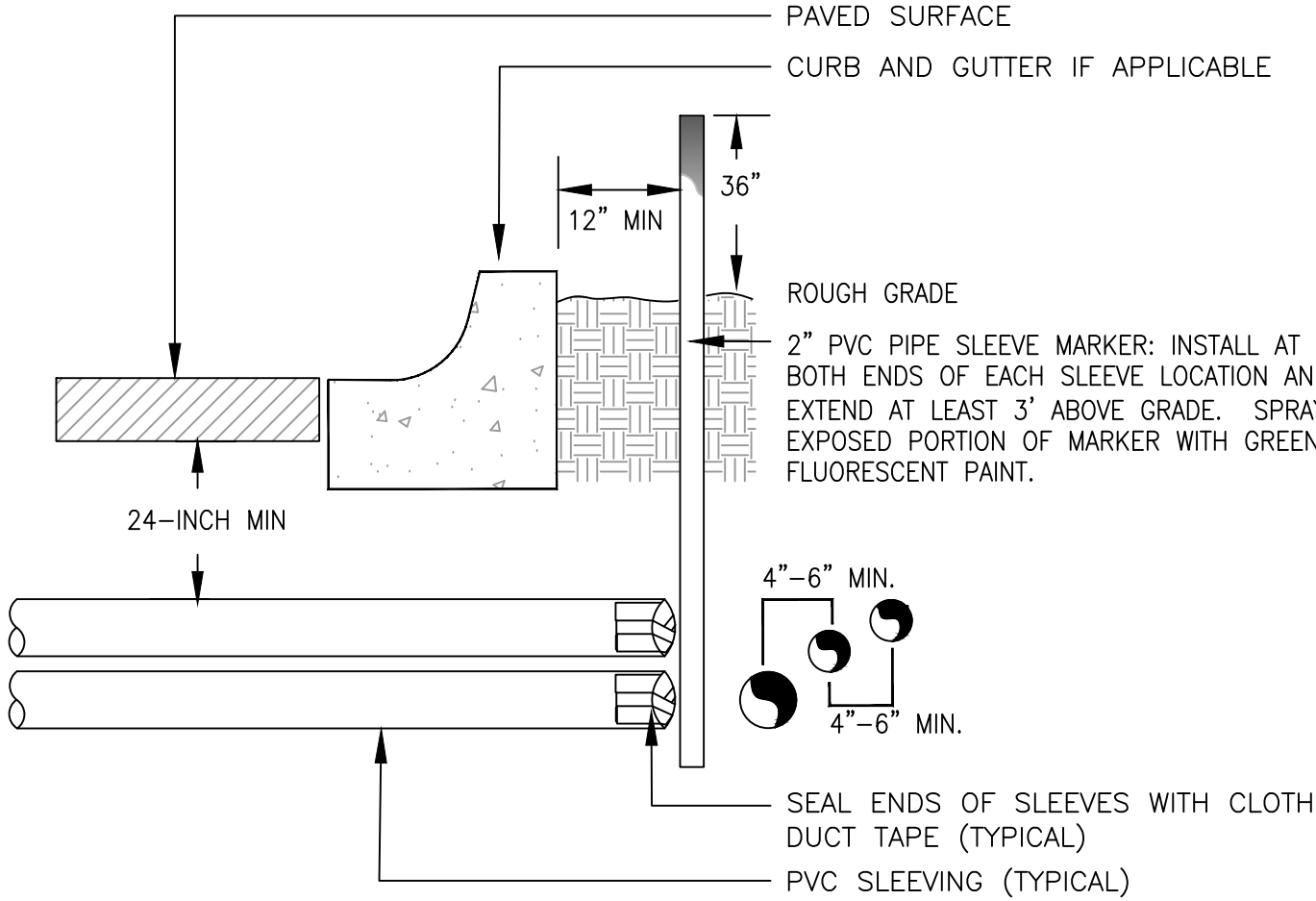
- NOTES:
1. SLEEVE ALL PIPE AND WIRE SEPARATELY.
 2. ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS."SNAKE" UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
 3. ALL 120-V WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. TAPE AND BUNDLE 24-V WIRE EVERY 10' AND PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30 DEGREES.

18 TYPICAL TRENCHING DETAIL



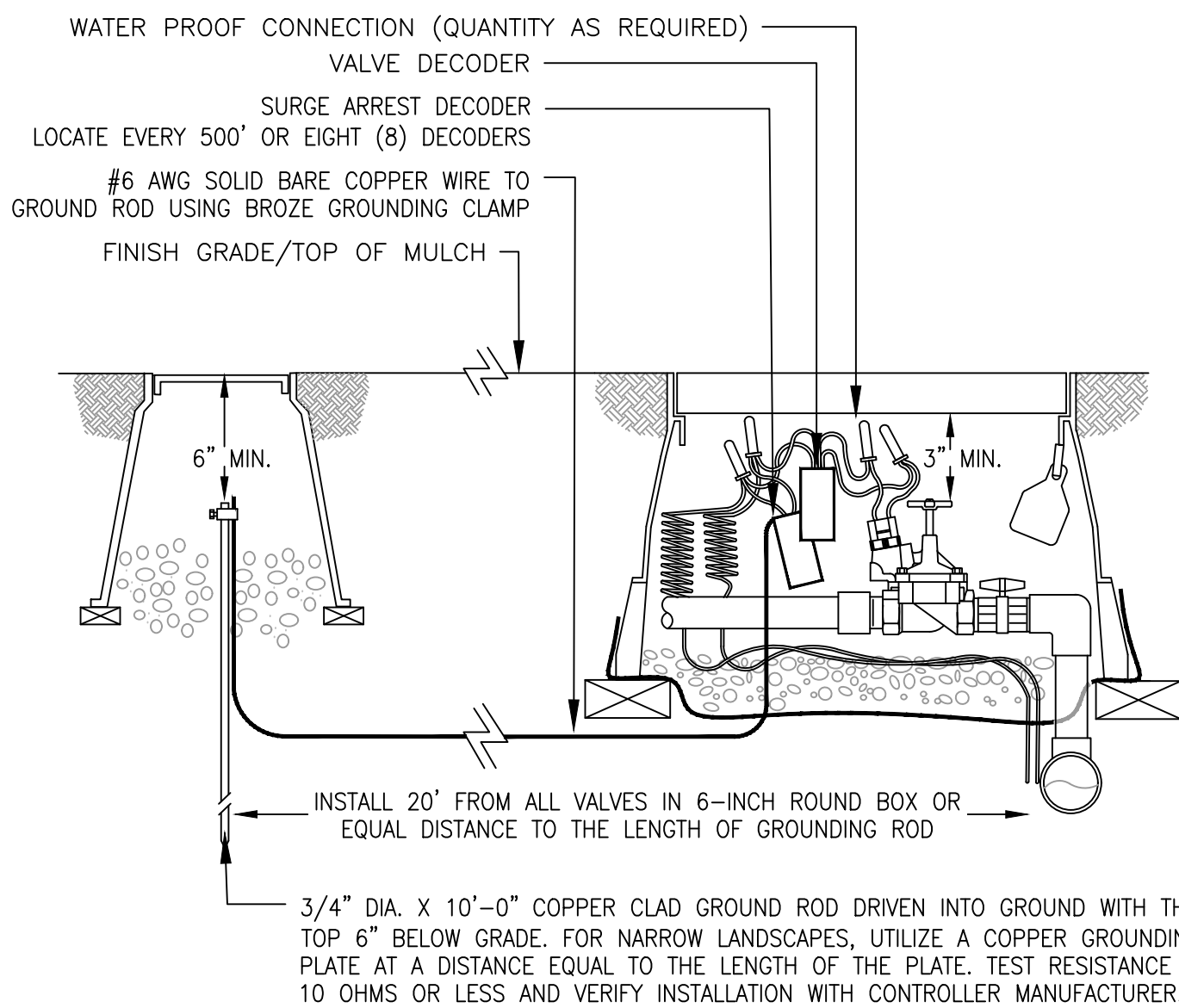
- NOTES:
1. INSTALL ONLY ONE RCV TO VALVE BOX. LOCATE AT LEAST 12-INCHES FROM AND ALIGN WITH NEARBY WALLS OR EDGES OF PAVED AREAS. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL.
 4. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL, BUT AVOID GROUPING MORE THAN THREE (3) STANDARD VALVE BOXES TOGETHER IN A SERIES.
 5. ARRANGE GROUPED VALVE BOXES IN RECTANGULAR PATTERNS.

20 TYPICAL VALVE BOX INSTALLATION



- NOTE:
- 1) ALL SLEEVING TO BE CLASS 200 BE PVC, SIZED AS NOTED.
 - 2) INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.

19 TYPICAL SLEEVING DETAIL



21 TYPICAL GROUNDING (AT VALVE) ASSEMBLY

THE QUARRY BY WATERMARK

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Fort Collins, CO 80521
p. 970.224.6657
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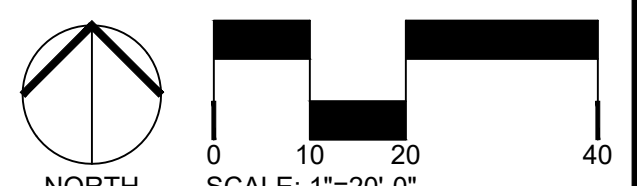
THOMPSON THRIFT
Jessica Tuttle
111 Monument Circle, Suite 1500
Indianapolis, IN 46204
p. 317. 853. 5459

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NORTHERN ENGINEERING
Danny Weber
301 N. Hovess Street, Suite 100
Fort Collins, CO 80521
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Brent Jeffery
323 W. Drake Road
Fort Collins, CO 80526
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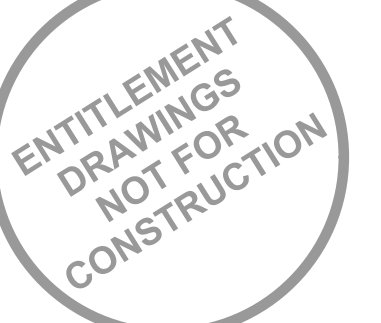
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REVISIONS

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IRRIGATION DETAILS

SEAL:



PROJECT No.:	R20-040
DRAWN BY:	BI
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DRAWING NUMBER:

IR10