

INSTALLATION GENERAL NOTES

1.

THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 95 PSI (PER PROPOSED WELL PUMP OUTPUT), AT A DESIGN FLOW OF 800 GPM (600 CURRENT + 200 FOR FUTURE EXPANSION) AT THE IRRIGATION POINT-OF-CONNECTION (POC). TAP, AND FLOW METER SHALL BE SIZED AS INDICATED IN THE DRAWING LEGEND. 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.

COORDINATE THE LOCATION OF IRRIGATION EQUIPMENT WITH ALL OTHER SITE UTILITIES, BOTH EXISTING AND NEW TO BE INSTALLED AS PART OF THIS PROJECT.

D.

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.

VALVE CONTROL WIRE TO BE #14AWG TWO CONDUCTOR CABLES ROUTED FROM CONTROLLER TO ALL VALVES. INSTALL A SEPARATE WIRE PATH TO EACH DEAD-END OF MAINLINE. INSTALL 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.
12.

IRRIGATION CONTRACTOR TO INSTALL PAIGE DECODER CABLE FUSE DEVICES (DCFD), AT ALL DECODER CABLE DIRECTIONAL SPLITS AND/OR CHANGES. INSTALL ALL SPLICES WITHIN A 10" VALVE BOX.

IRRIGATION SLEEVE LEGEND

* ALL SLEEVES SHALL BE CLASS 200 PVC AND SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH, ALL CONTROL WIRE SLEEVES SHALL BE 2-INCH

NON-POTABLE NOTE

* ALL PIPING, VALVES, VALVE BOXES, SPRINKLERS, DRIP COMPONENTS, IRRIGATION INFRASTRUCTURE, AND ALL WATER EMISSION DEVICES SHALL BE MARKED PURPLE TO INDICATE USE WITH NON-POTABLE WATER.

CONSTRUCTION NOTES

- 1

THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION PUMP TO BE INSTALLED AT THE APPROXIMATE LOCATION SHOWN, SEE SHEET IR-3.05. COORDINATE INSTALLATION WITH OWNER'S REPRESENTATIVE.
- 2

WALL MOUNT THE IRRIGATION CONTROLLER AT THE PUMP STATION ENCLOSURE. 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. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- 3

IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY ONLY. INSTALL IRRIGATION COMPONENTS WITHIN LANDSCAPED AREA.
- 4

SET STANDARD TURF HEADS 1.5 FEET INTO TURF FROM FENCELINE.
- 5

SET HIGH SPEED INFIELD ROTORS 2 FEET INTO TURF FROM INFIELD EDGE.
- 6

EXISTING POTABLE WATER LINES. WATER LINES TO BE AVOIDED AND PROTECTED IN PLACE. CLEARLY IDENTIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO TRENCHING.

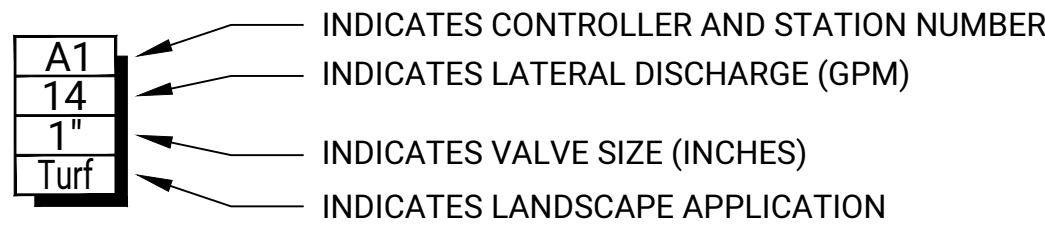
IRRIGATION SYSTEM DESIGN PARAMETERS

THE FACTORS IN THE TABLE BELOW WERE UTILIZED IN THE IRRIGATION SYSTEM DESIGN TO DETERMINE TAP CAPACITY REQUIREMENTS AND MAINLINE SIZE AND ARE MADE AVAILABLE TO GUIDE DECISIONS ON THE SYSTEM OPERATION BY THE CONTRACTOR. THE SYSTEM IS DESIGNED FOR CONCURRENT OPERATION OF MULTIPLE ZONES IN ORDER TO FULLY UTILIZE THE AVAILABLE SYSTEM FLOW AND TO COMPLETE IRRIGATION WITHIN THE TARGET DAILY WATERING WINDOW. MULTIPLE ZONES WILL BE REQUIRED TO OPERATE AT THE SAME TIME UP TO A COMBINED TOTAL EQUAL TO THE MINIMUM PUMP STATION FLOW RATE WHEN ZONE SIZES ARE LOWER THAN THE MINIMUM FLOW RATE.

MINIMUM PRESSURE REQUIREMENT AT POC	95 PSI
MINIMUM FLOW REQUIRED AT POC	600+200 GPM
MAXIMUM FLOW AT FURTHEST POINTS OF THE SYSTEM	65 GPM
TOTAL IRRIGATION DAYS PER WEEK	5 DAYS
WATER WINDOW PER DAY	8 HRS

IRRIGATION LEGEND

- SLEEVES: CLASS 200 PVC
- POINT-OF-CONNECTION ASSEMBLY
- MAINLINE PIPE: HDPE , SDR11 (BUTT FUSED) SIZED PER PLAN
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC 1-INCH SIZE UNLESS OTHERWISE INDICATED
- IRRIGATION CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE
- UNCONNECTED PIPE CROSSING
- REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS: HUNTER PGV (SIZED PER PLAN) w/Baseline biCoder BL-5201
- QUICK COUPLING VALVE ASSEMBLY: LEEMCO L2 QCV
- ISOLATION GATE VALVE ASSEMBLY: LEEMCO
- FLOW SENSOR ASSEMBLY: CONNECT TO PUMP STATION SHARED FLOW METER W/ BASELINE FLOW BiCoder BL5309



- IRRIGATION CONTROLLER UNIT WITH 4G CEL MODEM BASELINE 3200X W/ METAL WALL MOUNT

- WEATHER SENSOR: BASELINE BL-5407-KIT
- GROUNDING AND SURGE ARRESTOR ASSEMBLY:

- IRRIGATION MAINLINE CAP ASSEMBLY

- PUMP ASSEMBLY:SEE SHEET PUMP STATION PLANS

- DECODER CABLE FUSE DEVICE (DCFD) WITH LIGHTNING PROTECTION: PAIGE P7407D

- COACH'S BUTTON

- SOIL MOISTURE SENSOR: BASELINE biSENSOR BL-5315B

- AIR RELIEF ASSEMBLY

- POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV W/MP1000 NOZZLES
PRESSURE: 40 PSI RADIUS: 8 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

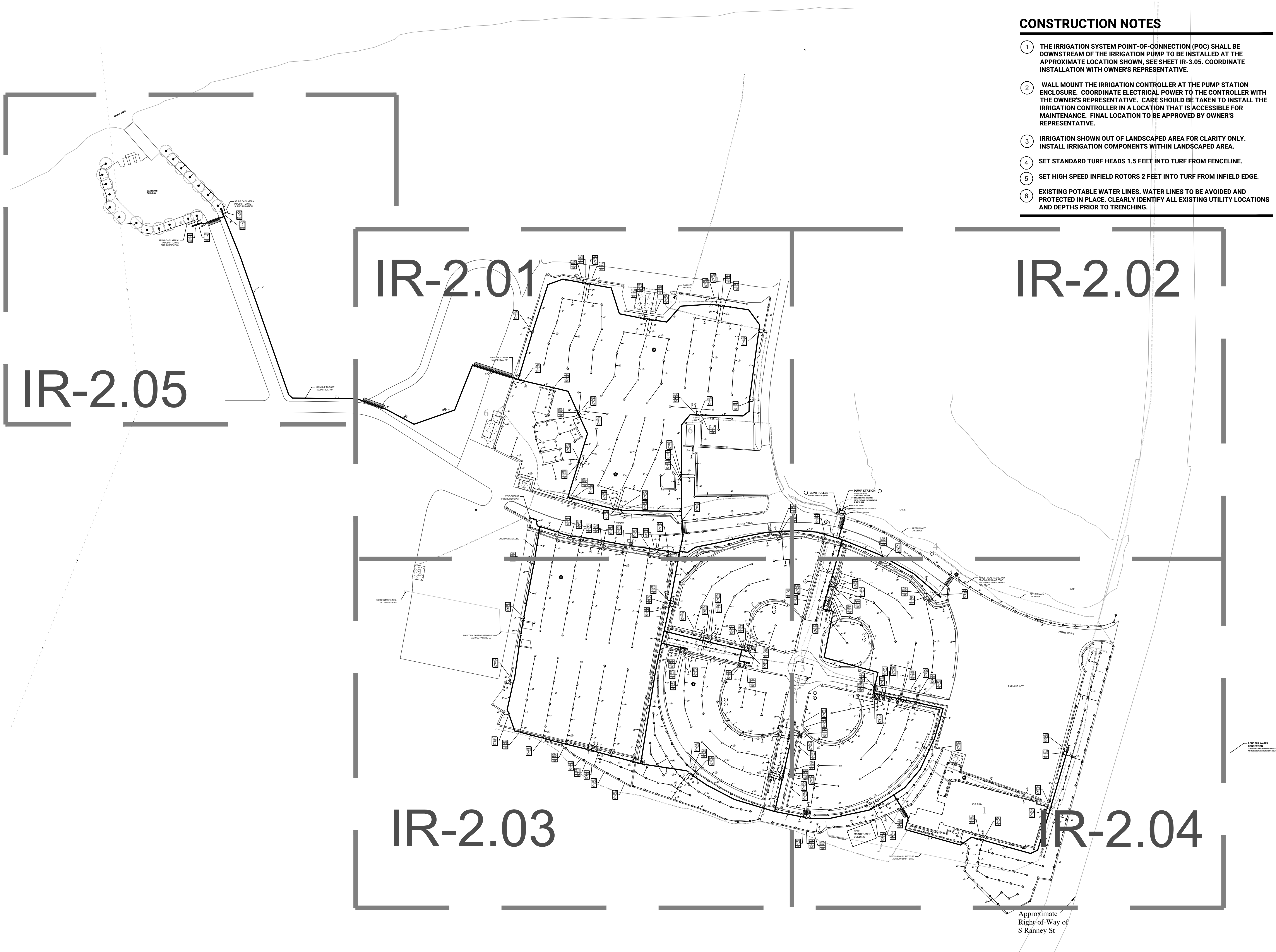
- POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV W/MP3000 NOZZLES
PRESSURE: 40 PSI RADIUS: 22 FEET TO 30 FEET
FLOW (GPM): B-1.82 Y-2.73 A-3.64

POP-UP GEAR DRIVEN ROTORS: HUNTER I-40-06-SS		
PRESSURE: 60 PSI		
NOZZLE	RADIUS	FLOW
	8 46'	9.2 GPM
	10 50'	11.3 GPM
	13 51'	12.3 GPM
	15 55'	15.7 GPM
	23 62'	21.3 GPM
	25 66'	23.9 GPM

POP-UP GEAR DRIVEN ROTORS: HUNTER I-40-04-SS-HS		
PRESSURE: 60 PSI		
NOZZLE	RADIUS	FLOW
	8 46'	9.2 GPM
	10 50'	11.3 GPM
	13 51'	12.3 GPM
	15 55'	15.7 GPM
	23 62'	21.3 GPM
	25 66'	23.9 GPM

- TREE BUBBLER ASSEMBLY: TWO (2) RAIN BIRD 1402 BUBBLERS
PRESSURE: 30 PSI
FLOW (GPM): 0.50 PER BUBBLER; 1.00 PER ASSEMBLY

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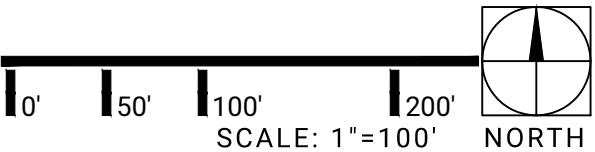
CONSTRUCTION NOTES

- 1 THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION PUMP TO BE INSTALLED AT THE APPROXIMATE LOCATION SHOWN, SEE SHEET IR-3.05. COORDINATE INSTALLATION WITH OWNER'S REPRESENTATIVE.
- 2 WALL MOUNT THE IRRIGATION CONTROLLER AT THE PUMP STATION ENCLOSURE. 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. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
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- 4 SET STANDARD TURF HEADS 1.5 FEET INTO TURF FROM FENCELINE.
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- 6 EXISTING POTABLE WATER LINES. WATER LINES TO BE AVOIDED AND PROTECTED IN PLACE. CLEARLY IDENTIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO TRENCHING.

Project: **Loudy Simpson Park**
Location: 600 South Ranney Street
Craig, Colorado
Client: **Moffat County**
Client Address: Craig, Colorado

Designed: FE, BJ
Drafted: FE
Reviewed: BJ, CD
Date Issued:
2026.04.14 (100% CD)

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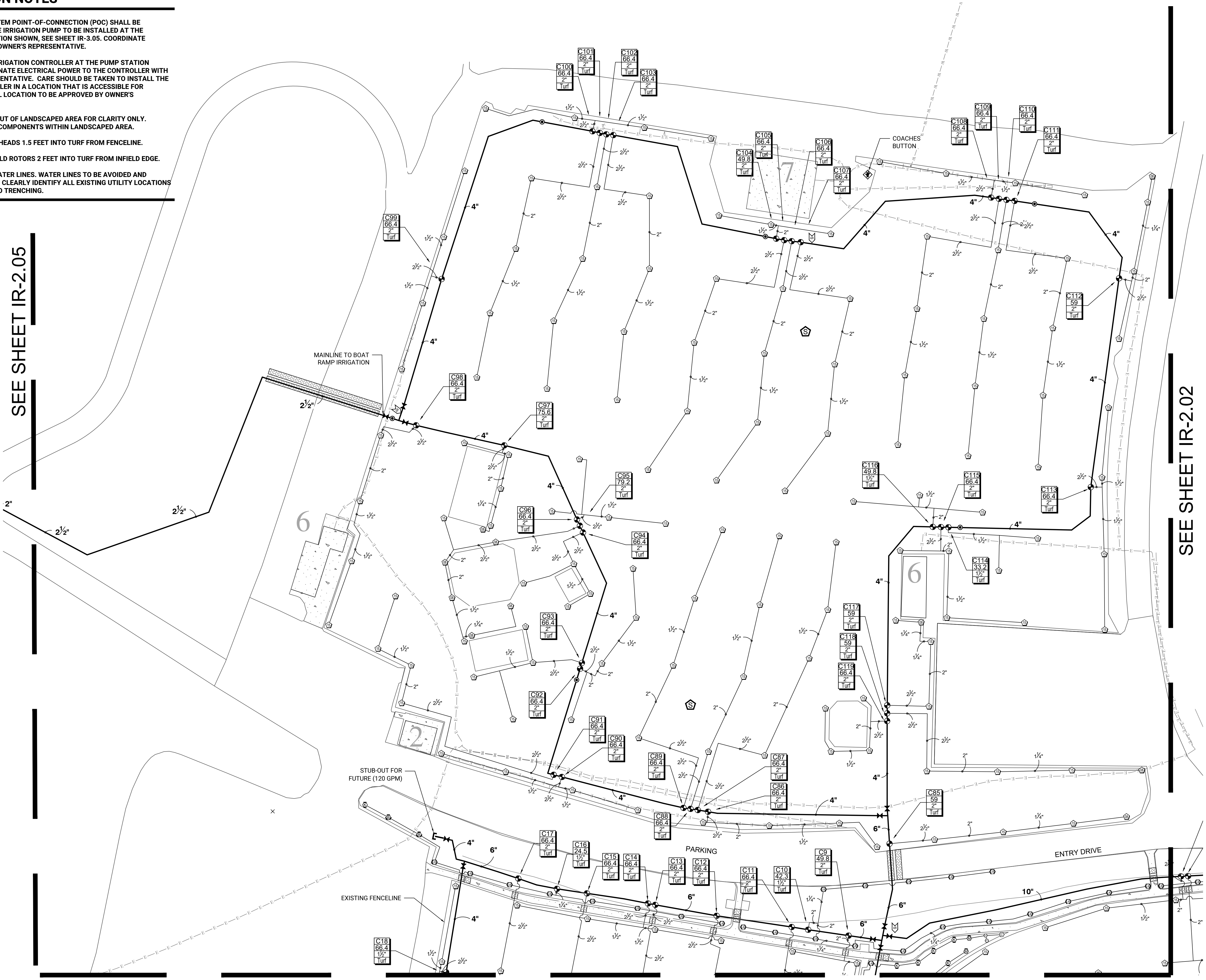
Sheet Title:
OVERALL IRRIGATION PLAN

Sheet Number:

IR-2.00

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SEE SHEET IR-2.05

SEE SHEET IR-2.02

SEE SHEET IR-2.03

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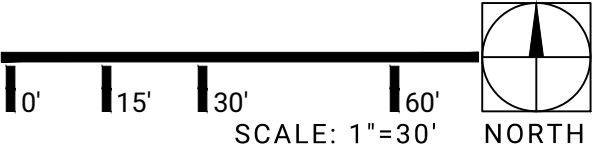
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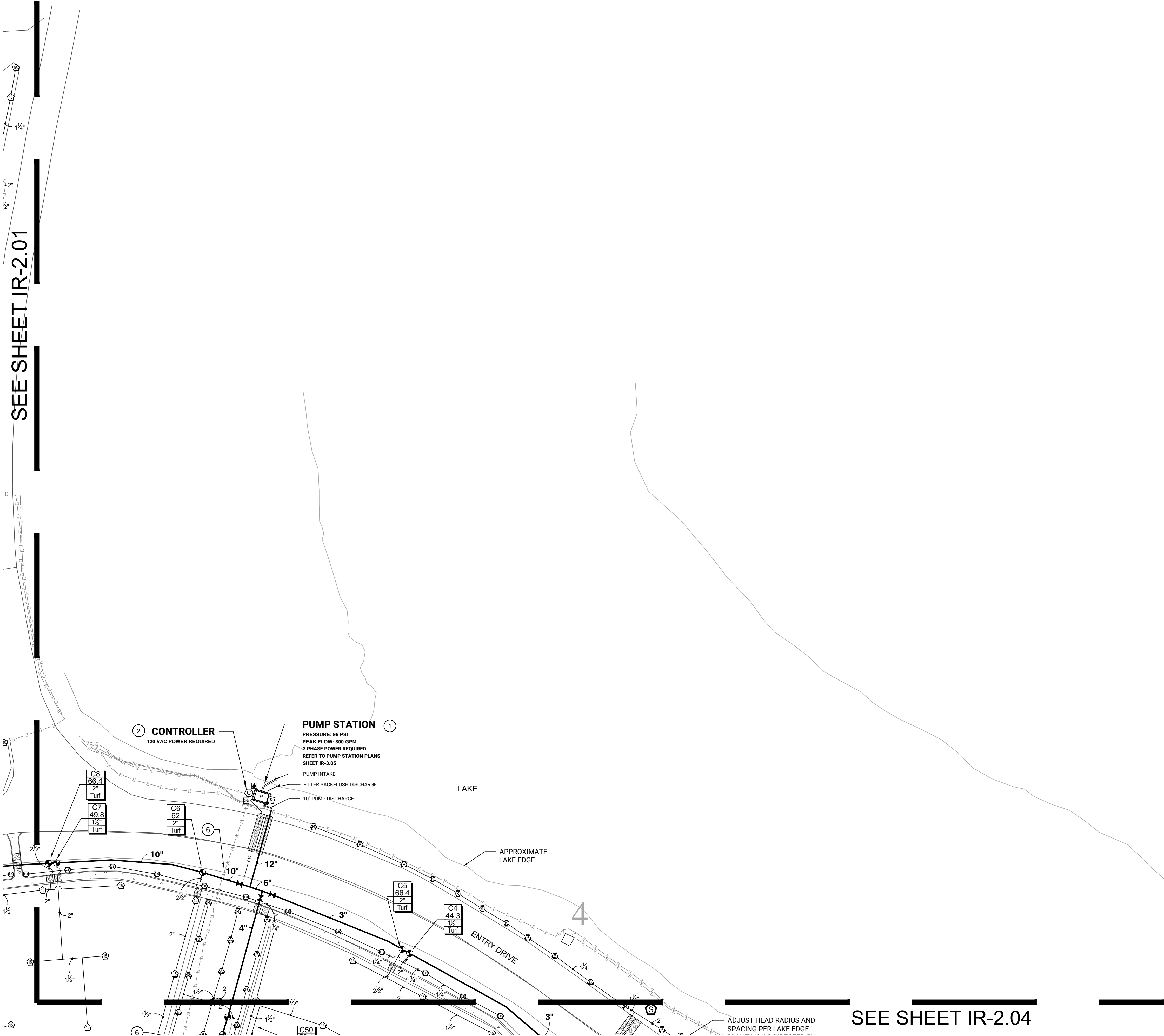


Sheet Title:

IRRIGATION PLAN

Sheet Number:

IR-2.01



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Project: **Loudy Simpson Park**

Location: 600 South Ranney Street

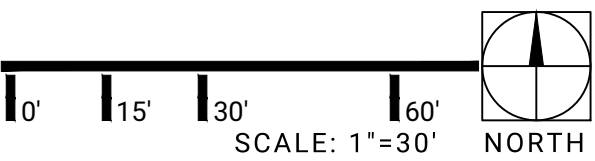
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Sheet Title:
IRRIGATION PLAN
Sheet Number:

IR-2.03

SEE SHEET IR-2.01

SEE SHEET IR-2.04

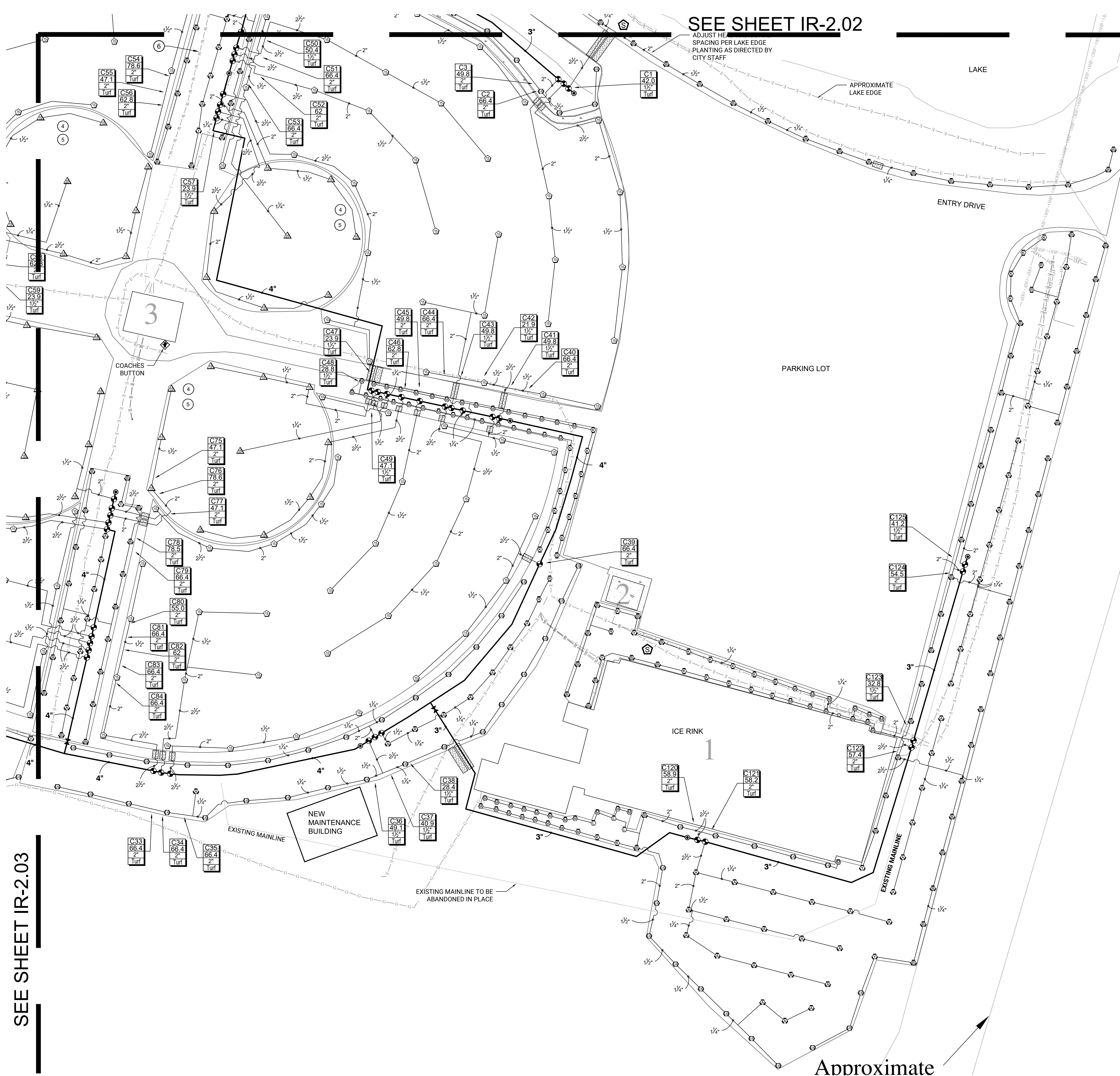
EXISTING MAINLINE &
BLOWOFF VALVE

MAINTAIN EXISTING MAINLINE
ACROSS PARKING LOT

CONSTRUCTION NOTES

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SEE SHEET IR-2.03



SEE SHEET IR-2.02

ADJUST HEAD
SPACING PER LAKE EDGE
PLANTING AS DIRECTED BY
CITY STAFF

LAKE

APPROXIMATE
LAKE EDGE

ENTRY DRIVE

PARKING LOT

ICE RINK

EXISTING MAINLINE

NEW MAINTENANCE
BUILDING

EXISTING MAINLINE TO BE
ABANDONED IN PLACE

EXISTING MAINLINE

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SITE WATER ENGINEERING SERVICES
1640 RIVERSIDE, AVE. SUITE 200
FORT COLLINS, COLORADO 80524
Telephone: 970.282.1800
Web: www.hinesinc.com

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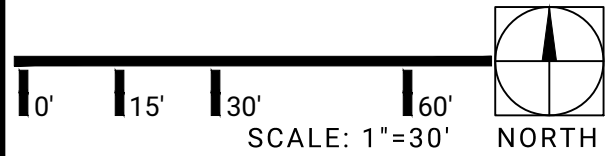
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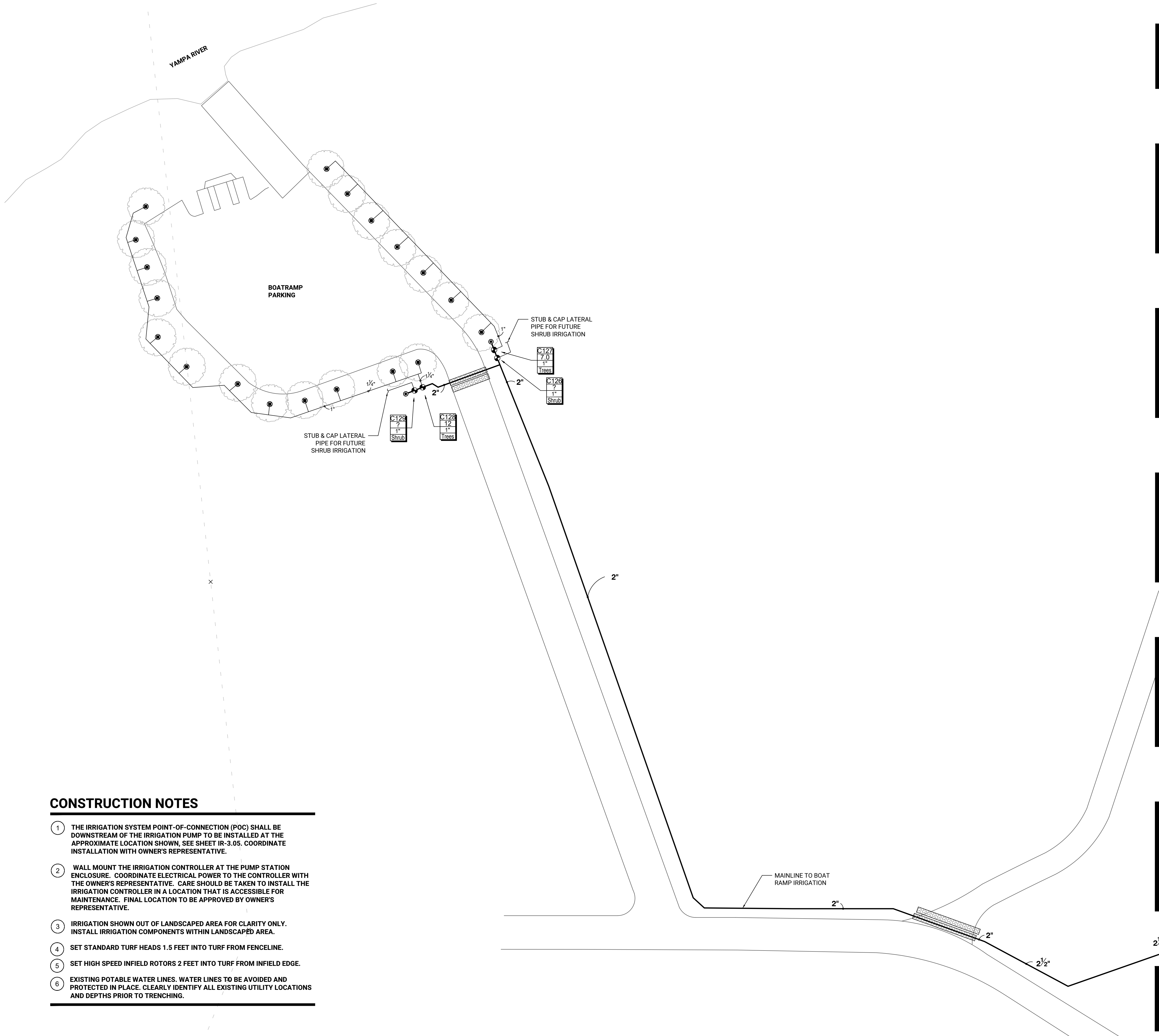


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IRRIGATION PLAN

Sheet Number:

IR-2.4



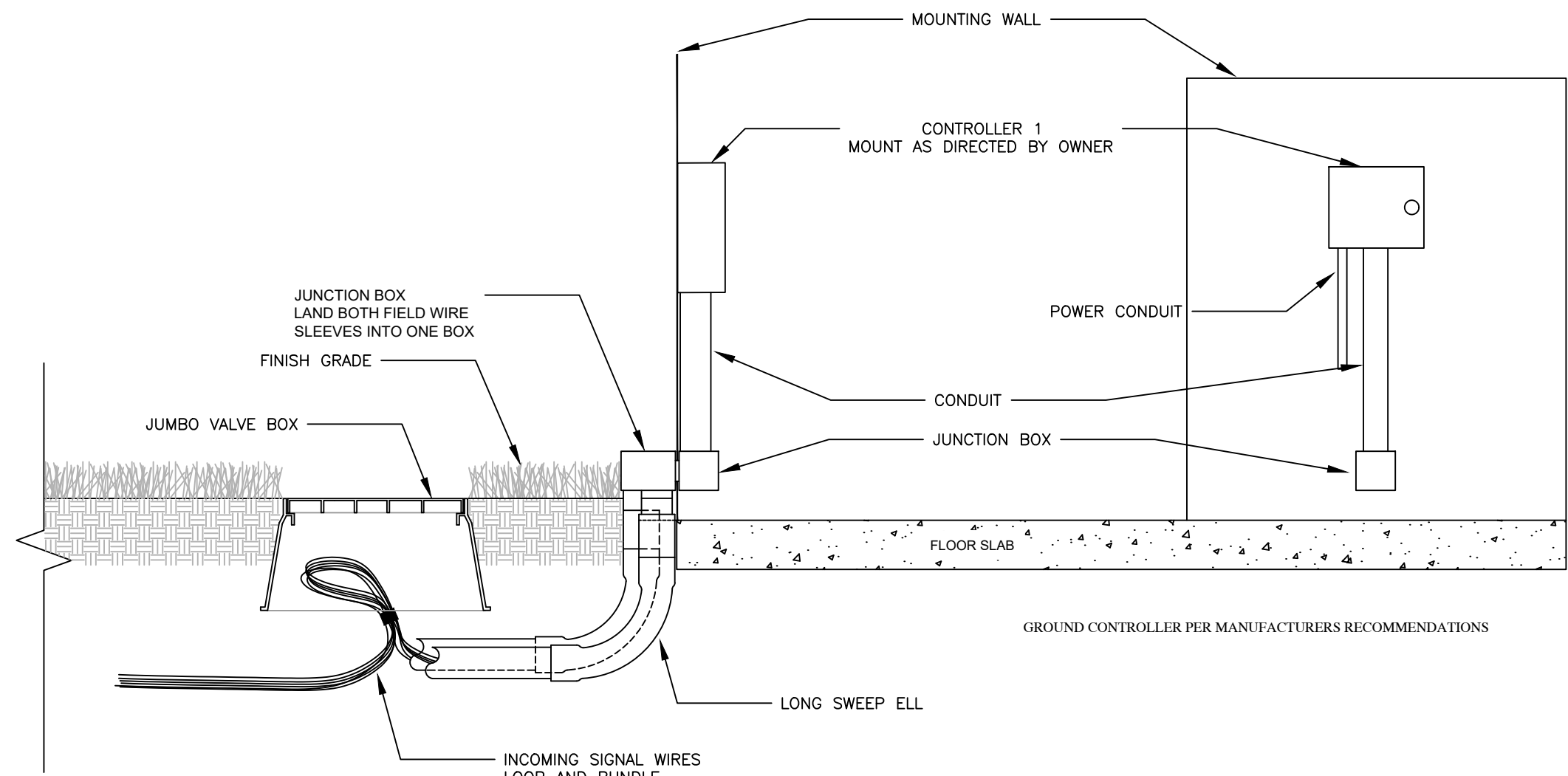
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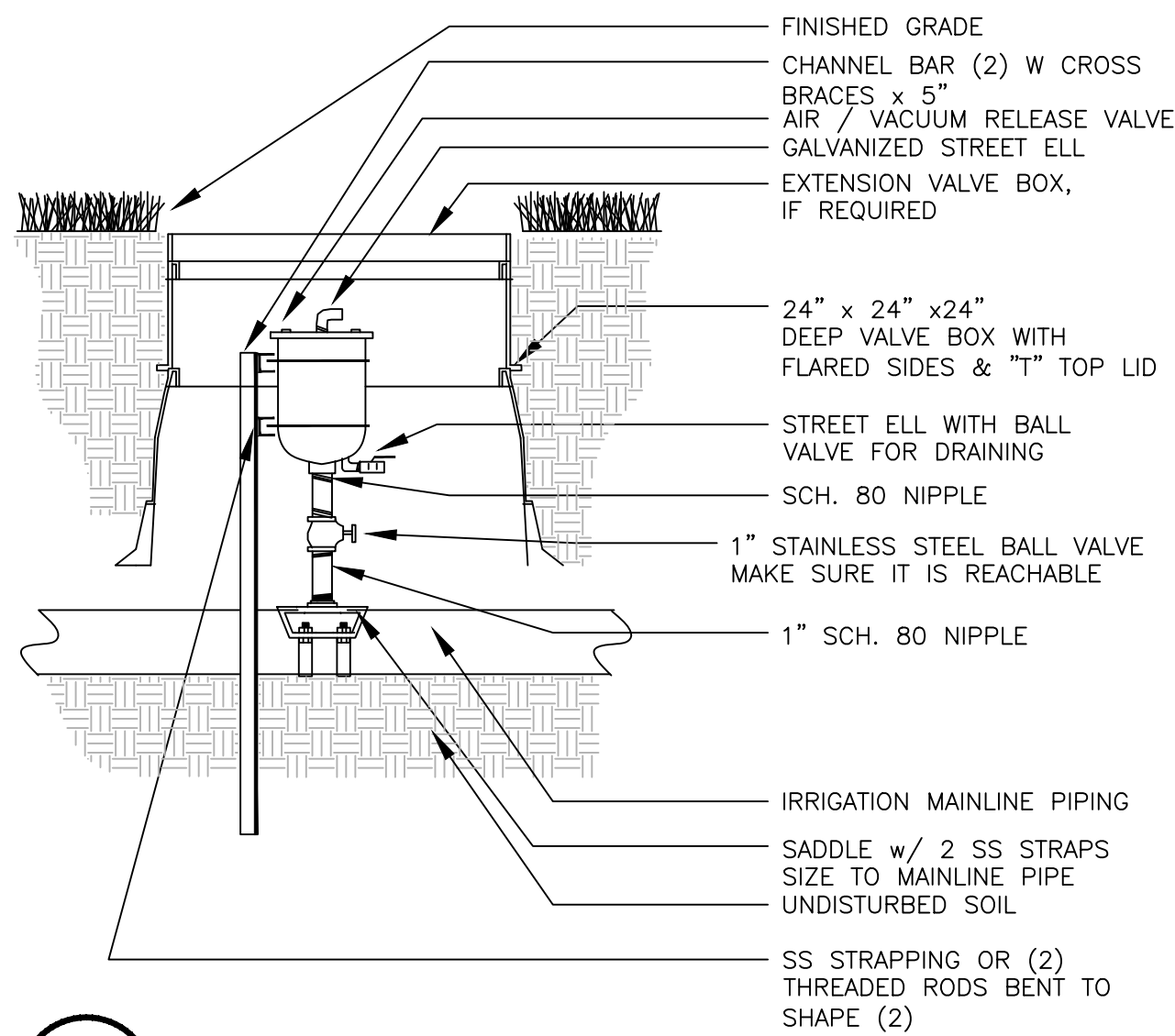
SEE SHEET IR-2.01

Project:
Location:
600 South Ranney Street
Craig, Colorado
Client:
Moffat County
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Craig, Colorado

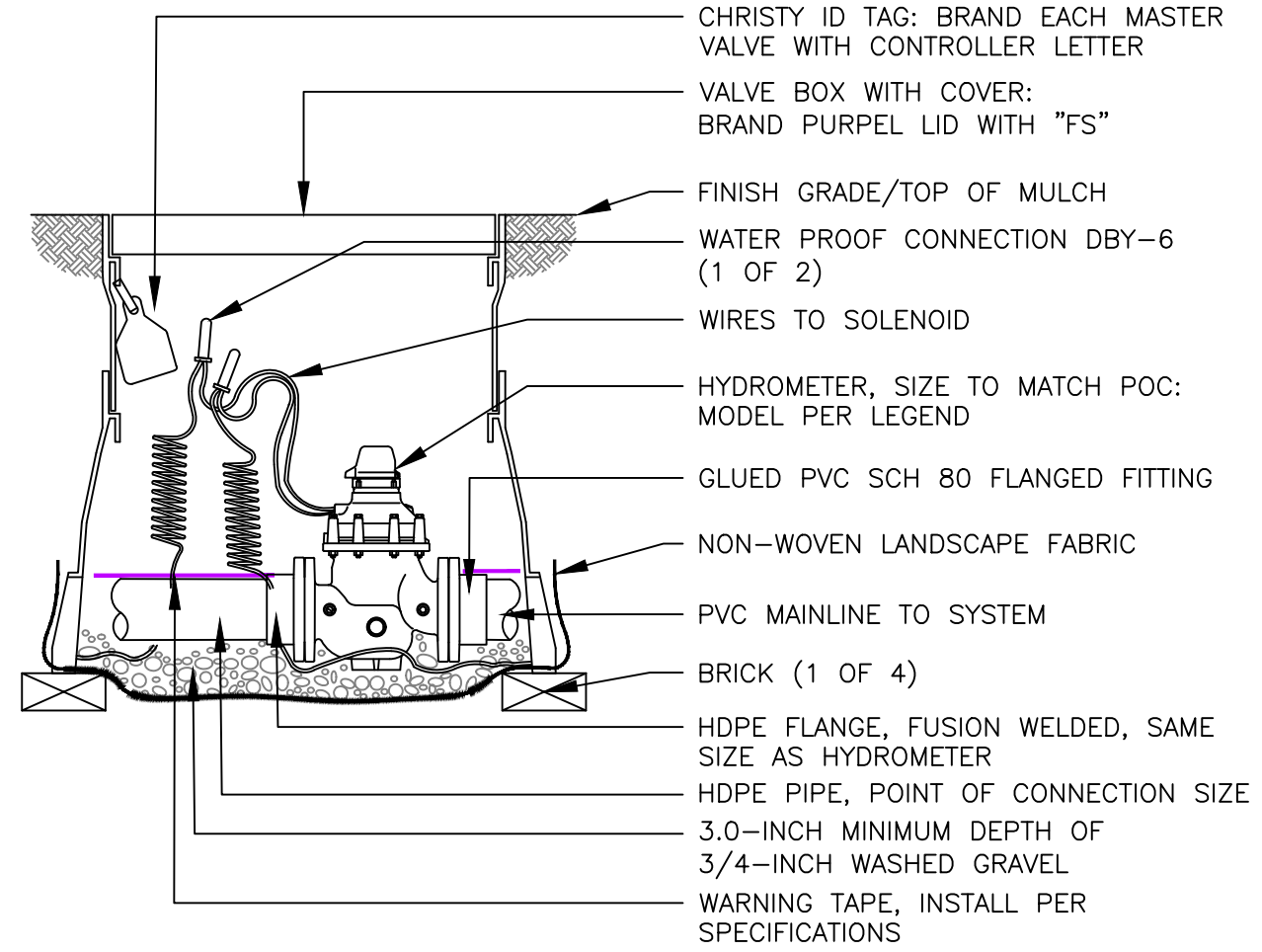
Loudy Simpson Park



1 IRRIGATION CONTROLLER MOUNTING
DETAIL

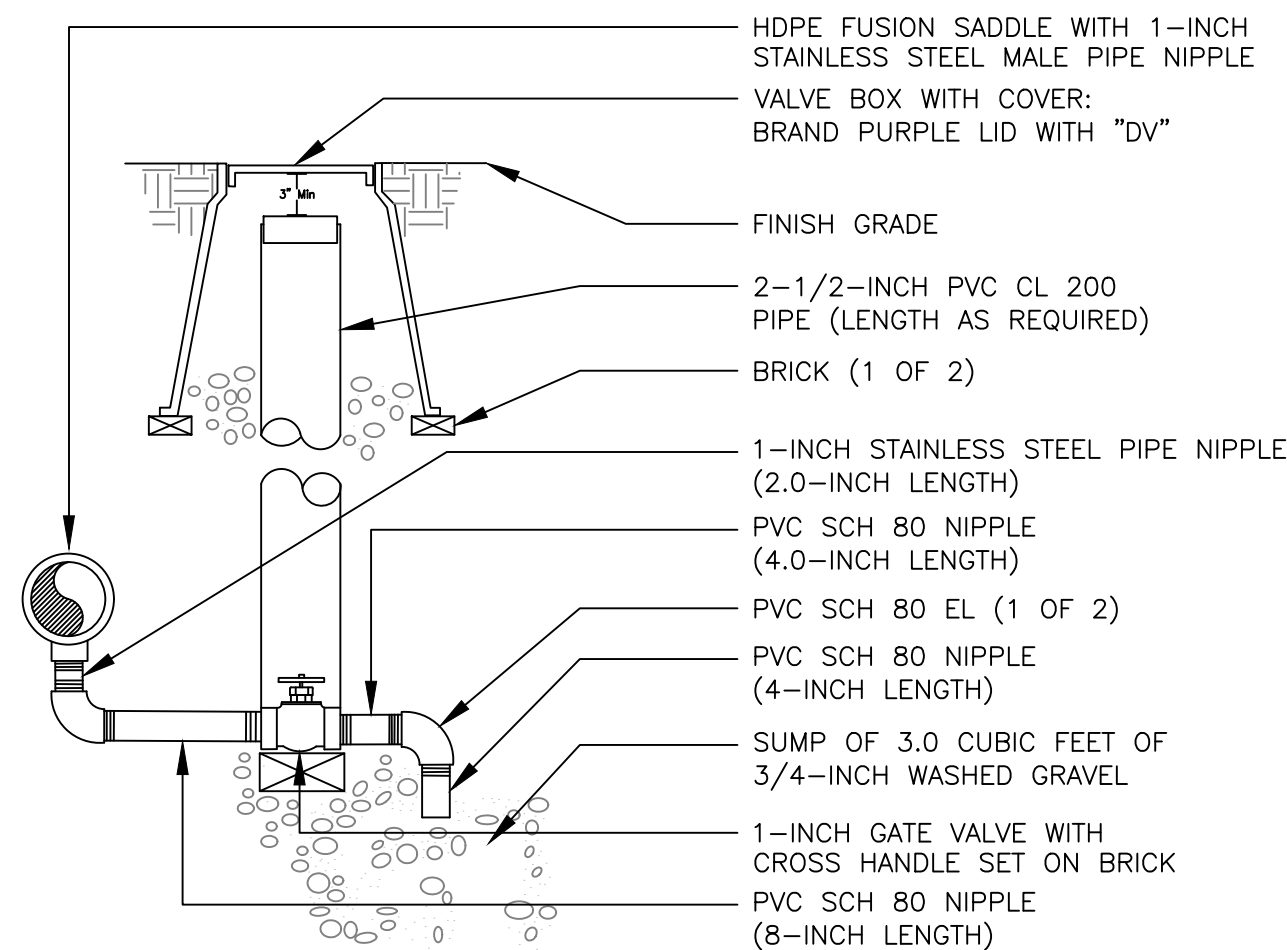


3 COMBO AIR/VACUUM RELEASE VALVE



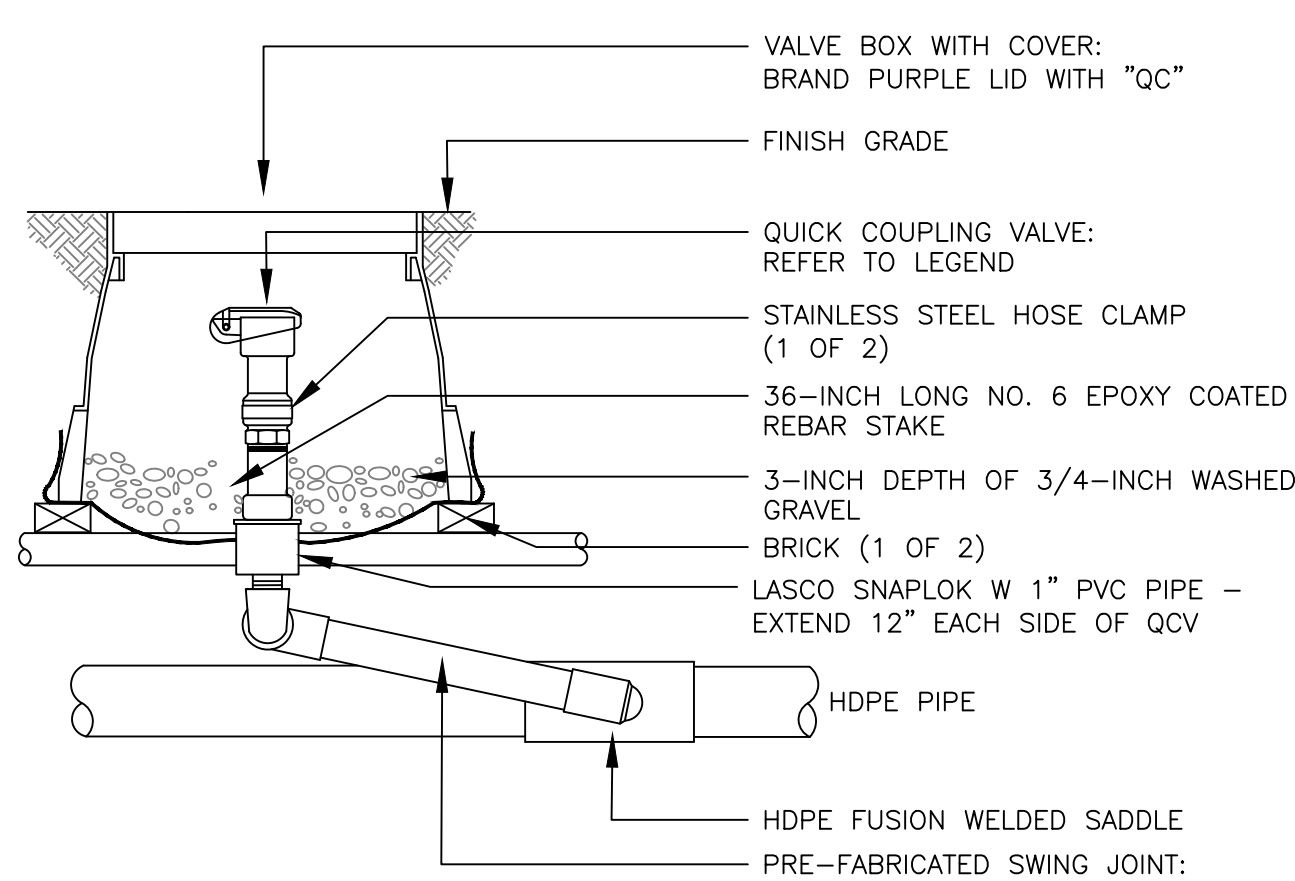
NOTES:
1. LOOP 36-INCHES OF ALL COMMUNICATION AND POWER CABLES PER MANUFACTURERS SPECIFICATIONS IN BOX AND ROUTE BACK TO CONTROLLER, NO SPLICES PERMITTED BETWEEN HYDROMETER AND CONTROLLER.

4 HYDROMETER ASSEMBLY
2.5-INCH AND LARGER

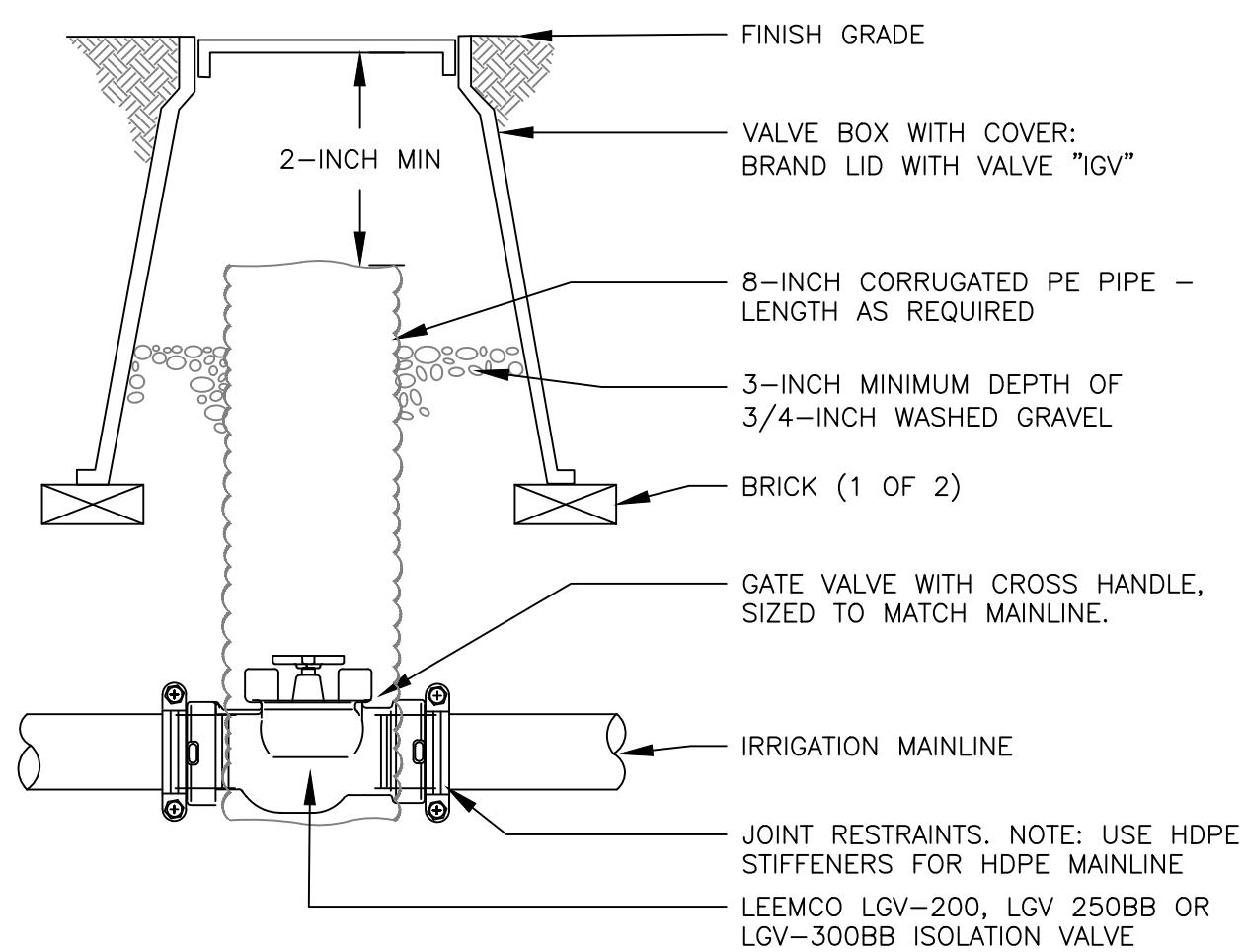


NOTE:
1. SLEEVE TO BE SET SQUARE OVER GATE VALVE TO ALLOW FOR OPERATION OF VALVE WITHOUT BINDING.
2. DRAIN VALVES SHALL BE INSTALLED AT LOCATION THAT MAY TRAP WATER.
3. ALL FITTINGS SHALL BE SPEARS SCHEDULE 80 PVC, SPECIAL REINFORCED

5 MANUAL DRAIN
VALVE ASSEMBLY

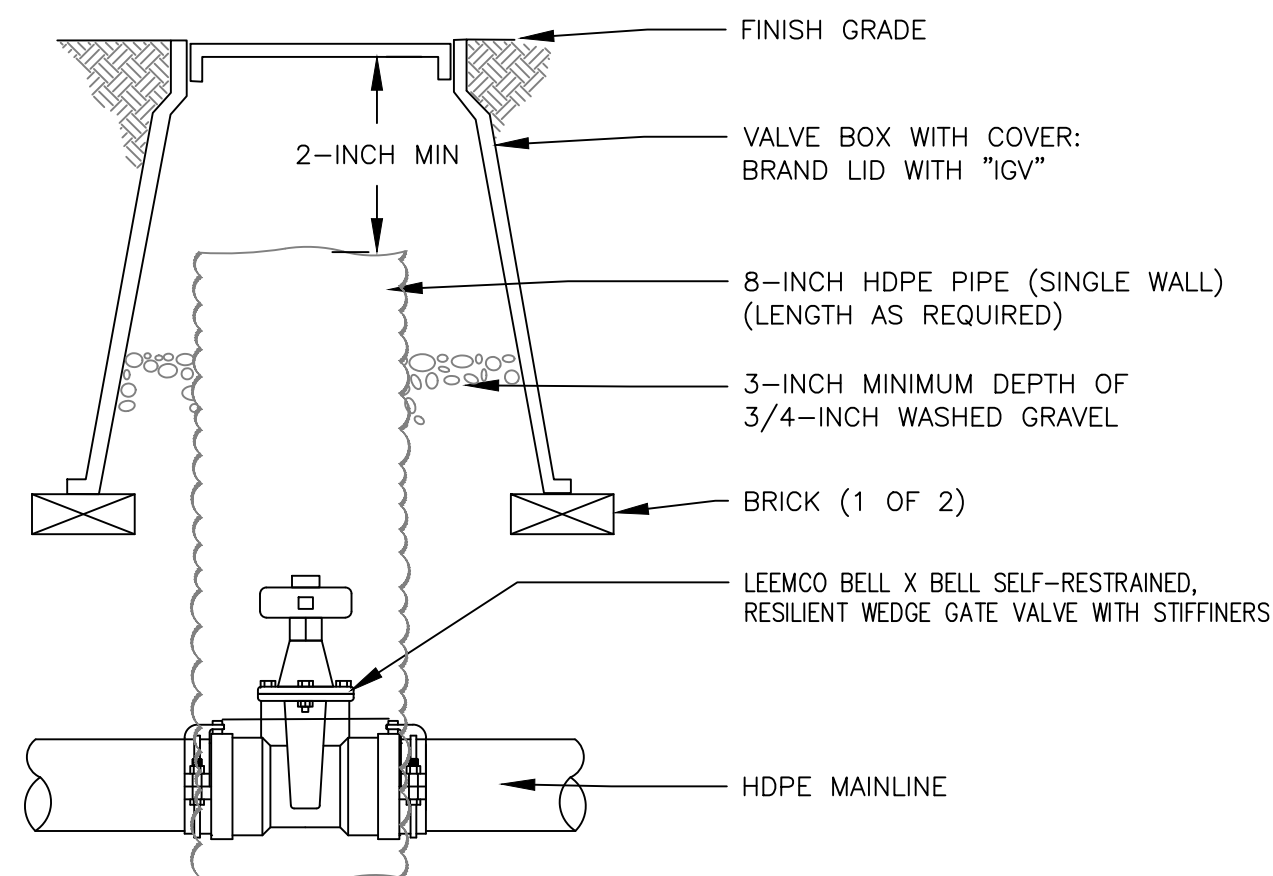


6 QUICK COUPLING
VALVE ASSEMBLY



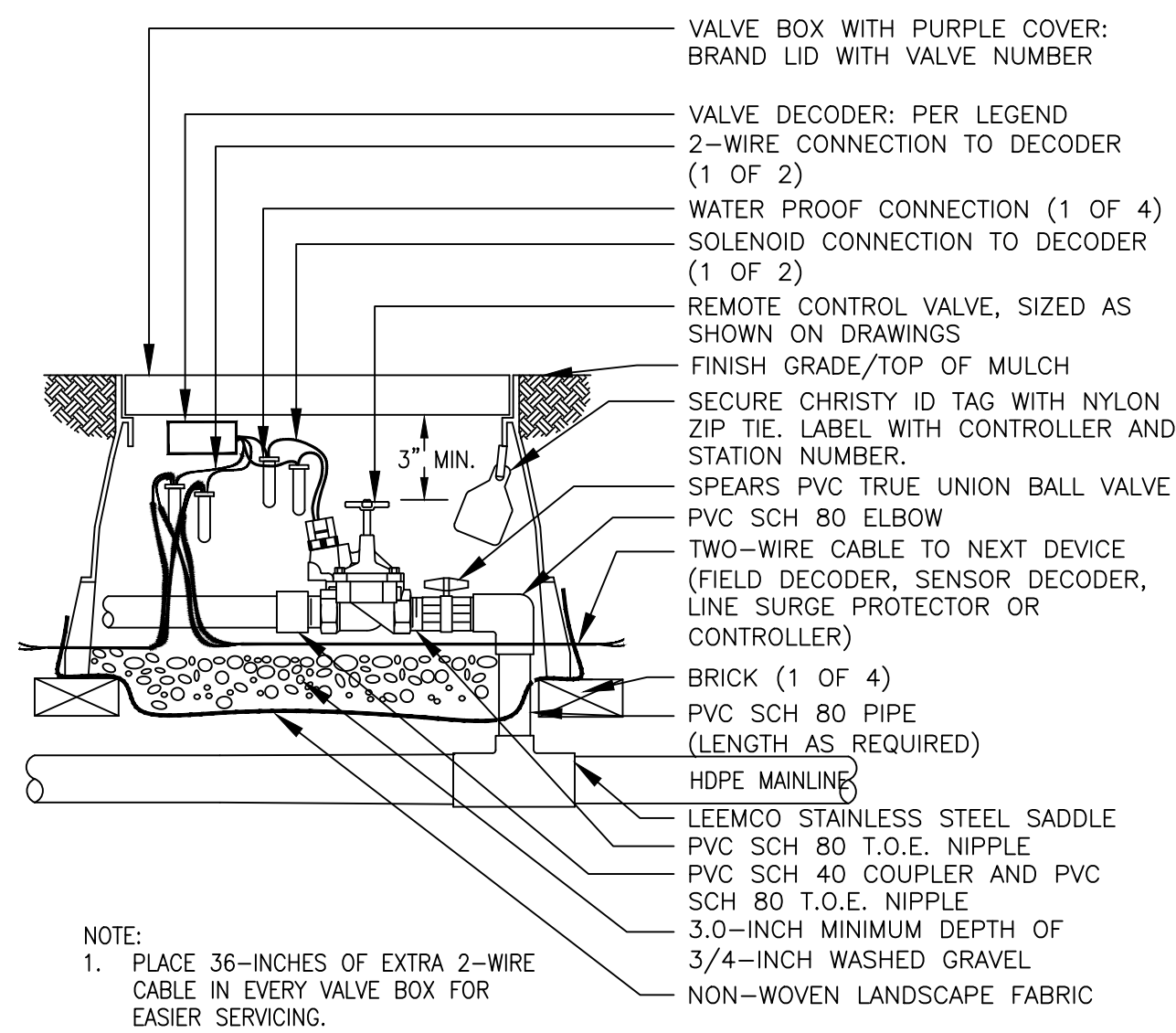
NOTES:
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

7 ISOLATION GATE VALVE ASSEMBLY
2, 2.5 & 3-INCH MAINLINE



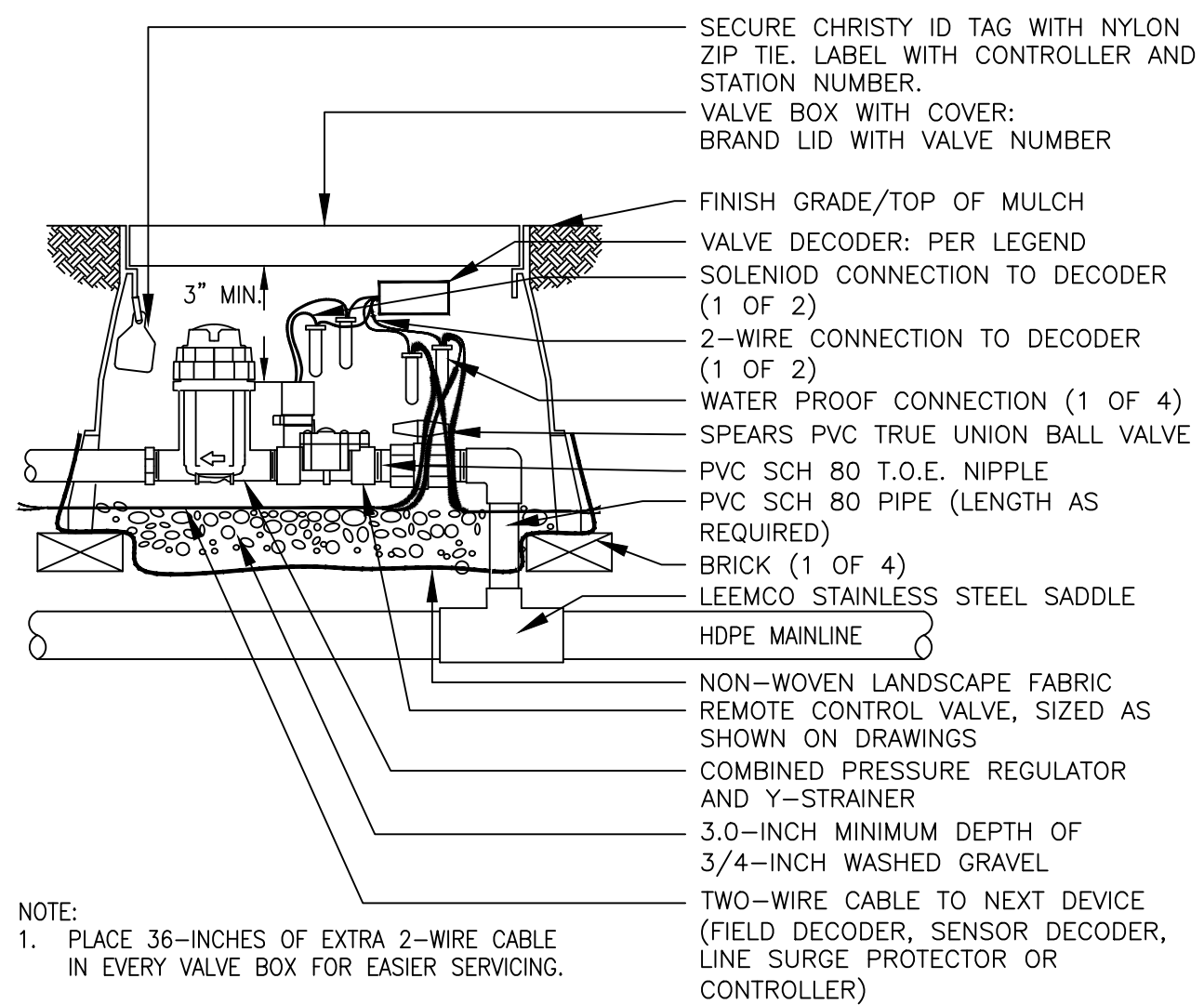
NOTES: 1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

8 ISOLATION GATE VALVE ASSEMBLY
4-INCH MAINLINE AND LARGER



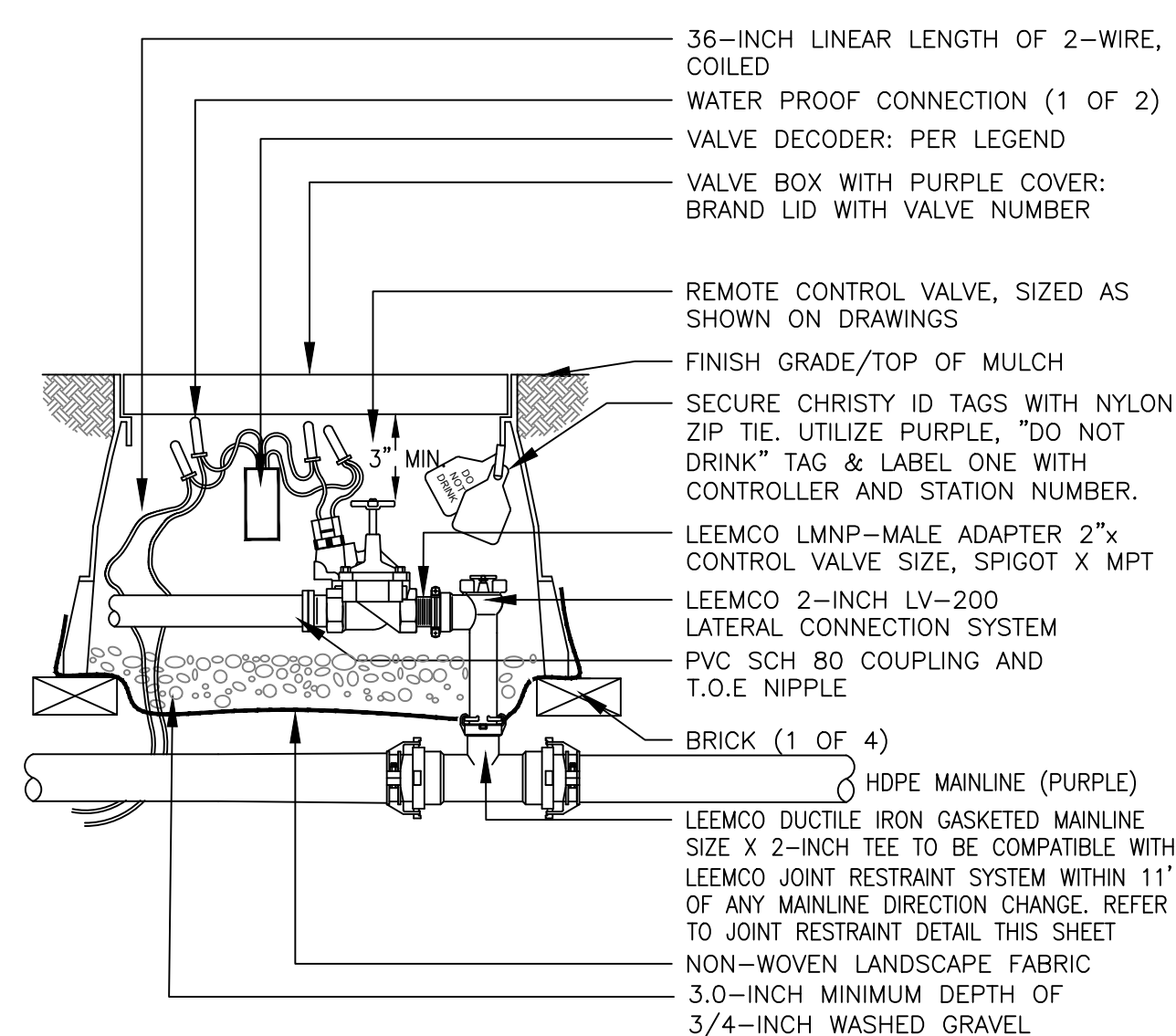
NOTE:
1. PLACE 36-INCHES OF EXTRA 2-WIRE CABLE IN EVERY VALVE BOX FOR EASIER SERVICING.

9 REMOTE CONTROL SPRINKLER
VALVE ASSEMBLY

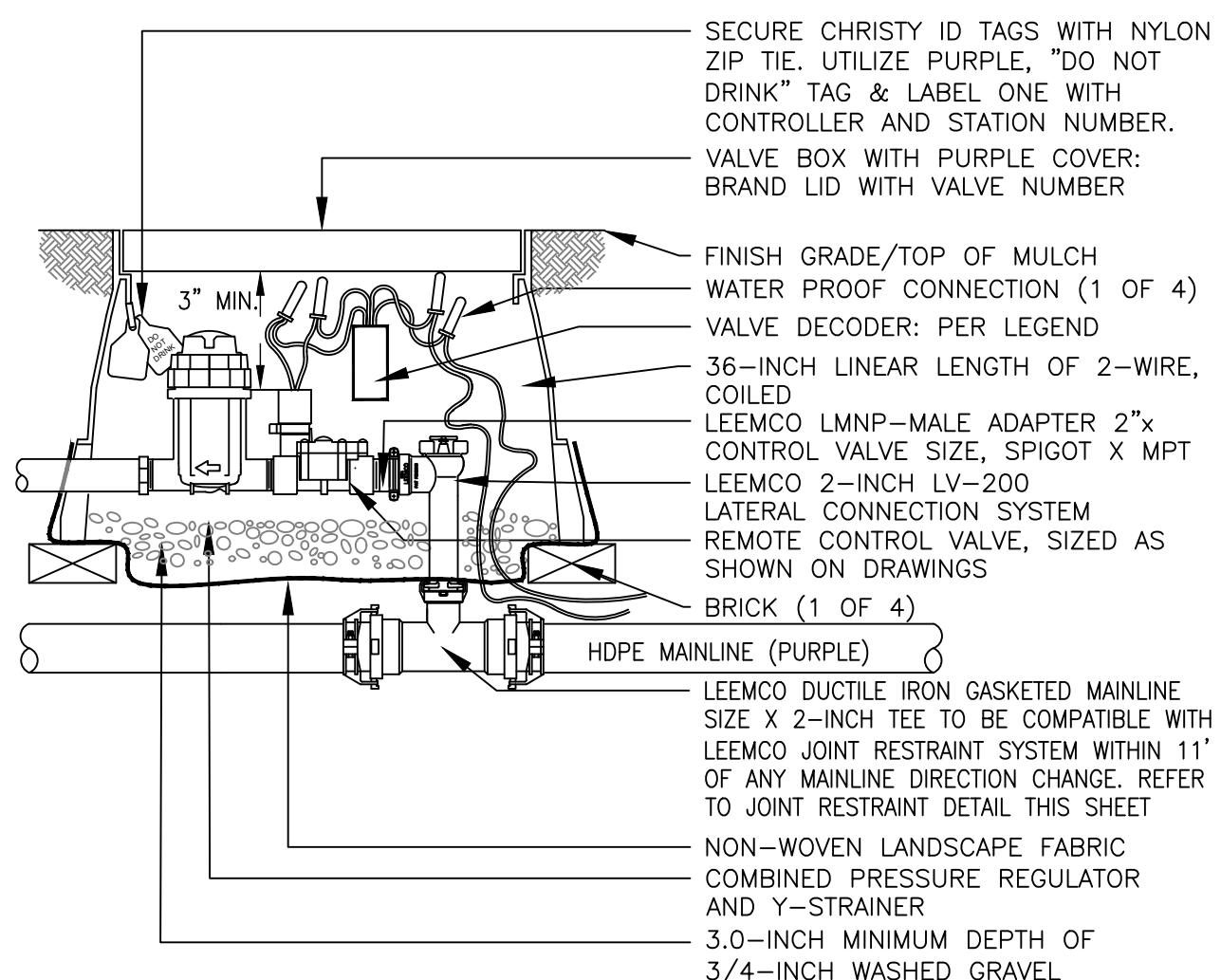


NOTE:
1. PLACE 36-INCHES OF EXTRA 2-WIRE CABLE IN EVERY VALVE BOX FOR EASIER SERVICING.

10 REMOTE CONTROL DRIP VALVE ASSEMBLY
2-INCH MAINLINE AND SMALLER



11 REMOTE CONTROL TURF VALVE ASSEMBLY
3-INCH MAINLINE AND LARGER



12 REMOTE CONTROL DRIP VALVE ASSEMBLY
3-INCH MAINLINE AND LARGER

Project: **Loudy Simpson Park**
Location: **600 South Ranney Street**
Craig, Colorado
Client: **Moffat County**
Client Address: **Craig, Colorado**

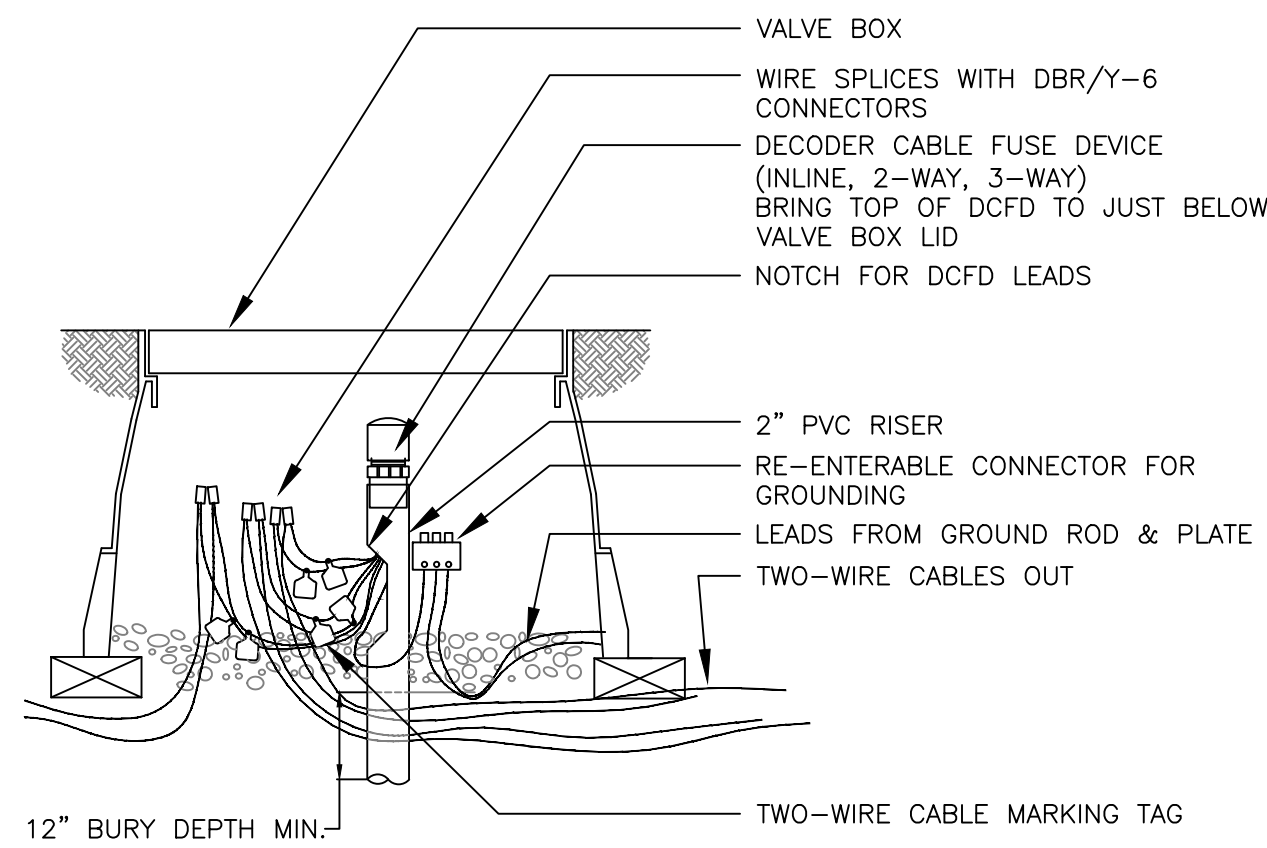
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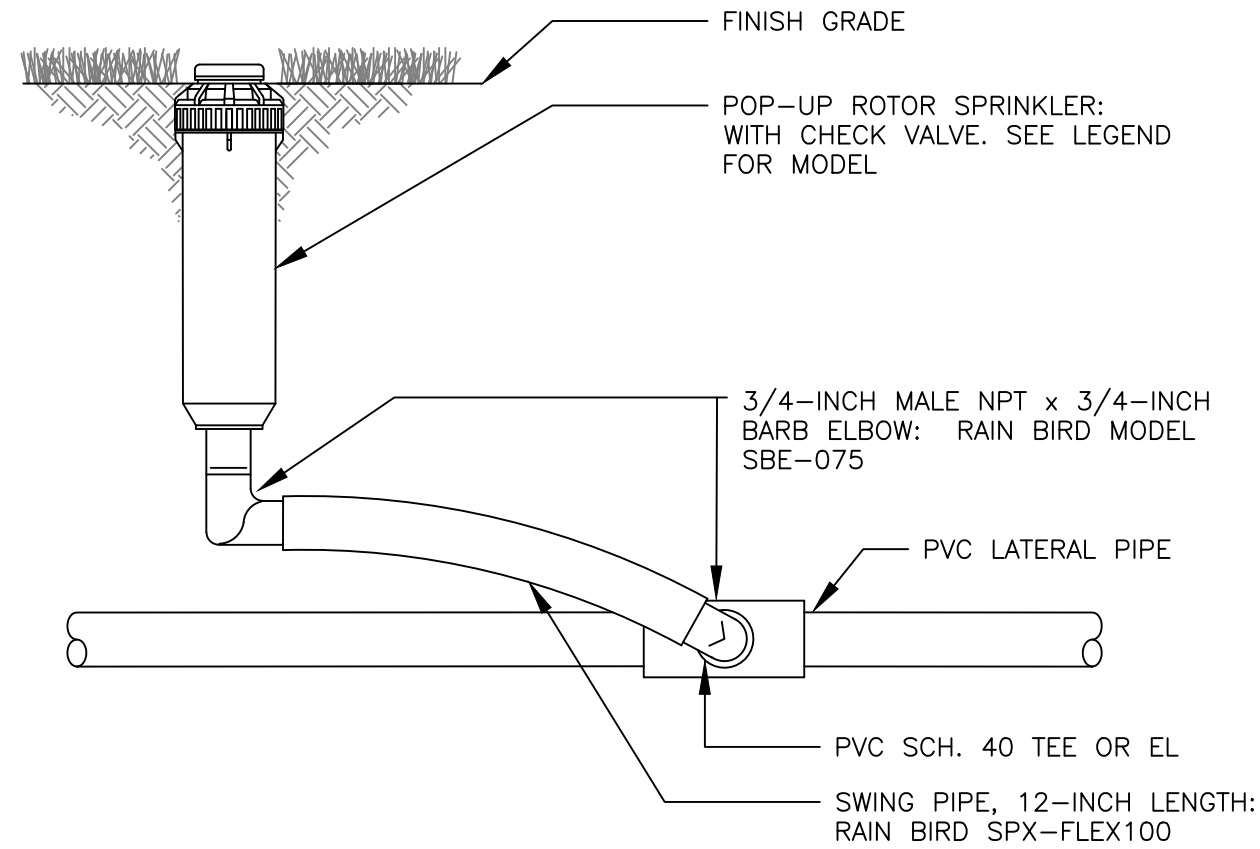
Sheet Title:
IRRIGATION DETAILS

Sheet Number:

IR-3.01

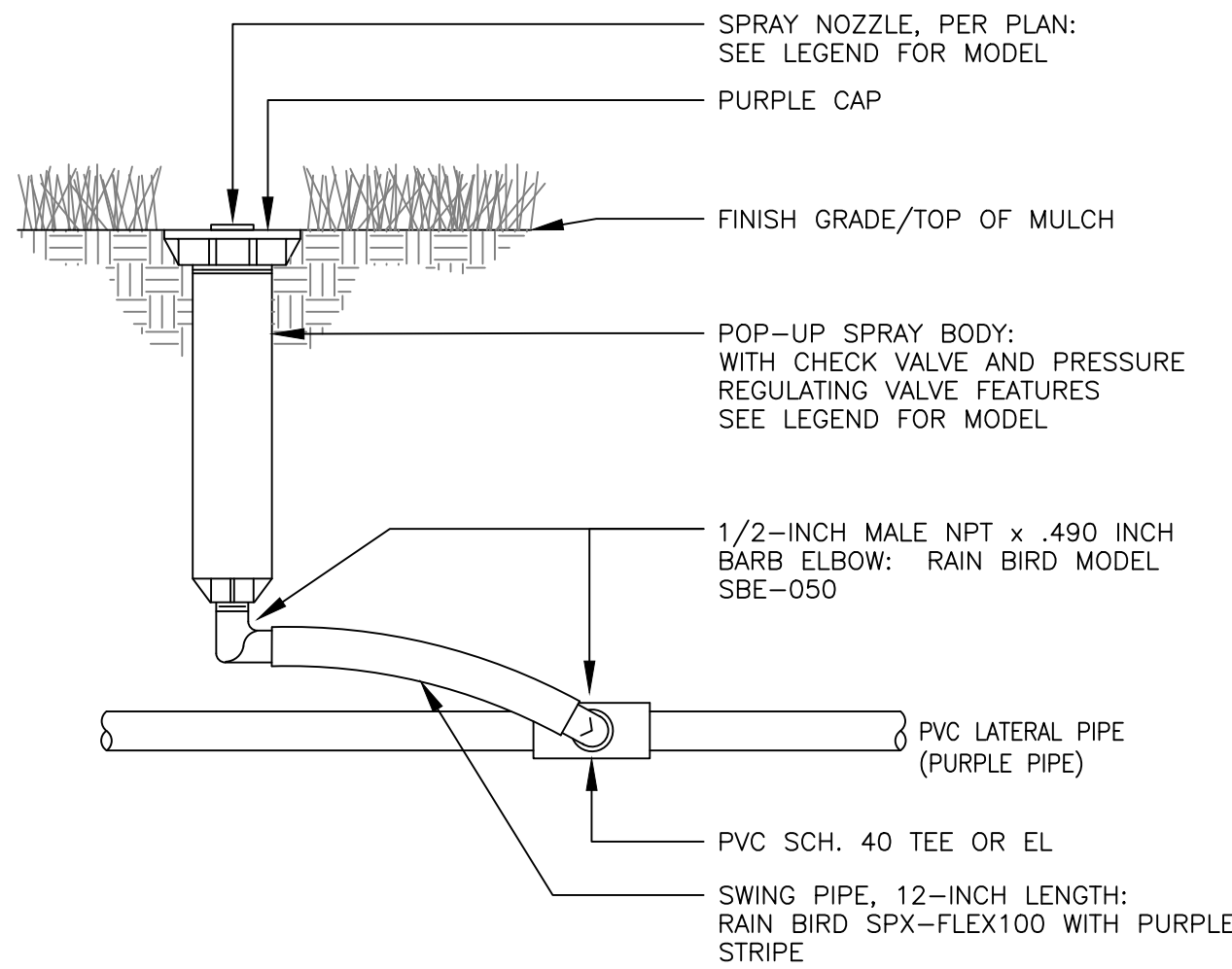


13 DECODER CABLE FUSE DEVICE
DETAIL

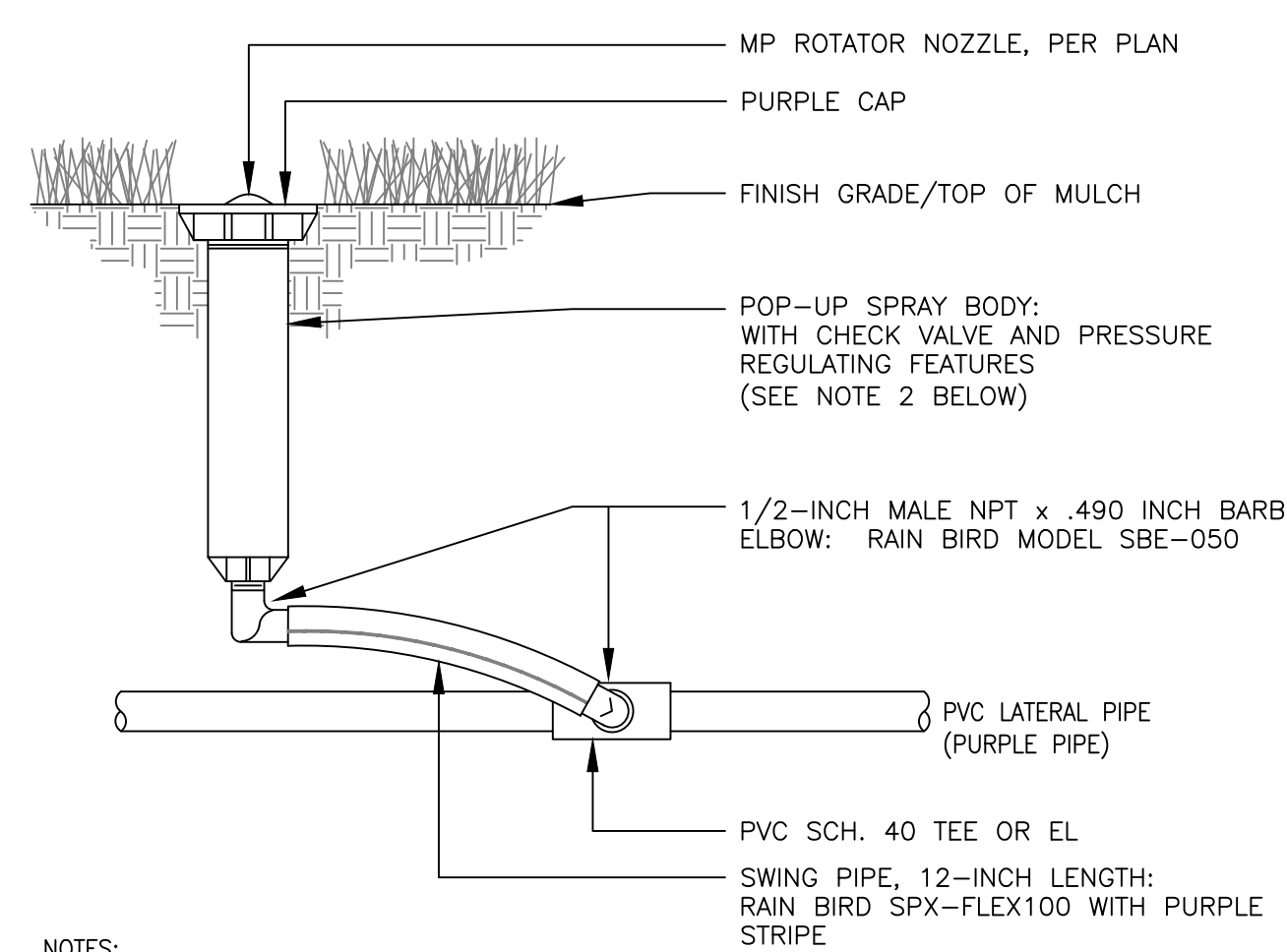


NOTES:
1. INSTALL PLASTIC RISERS FOR ROTORS IN NATIVE AREAS.

14 4-INCH GEAR DRIVEN
ROTOR ASSEMBLY

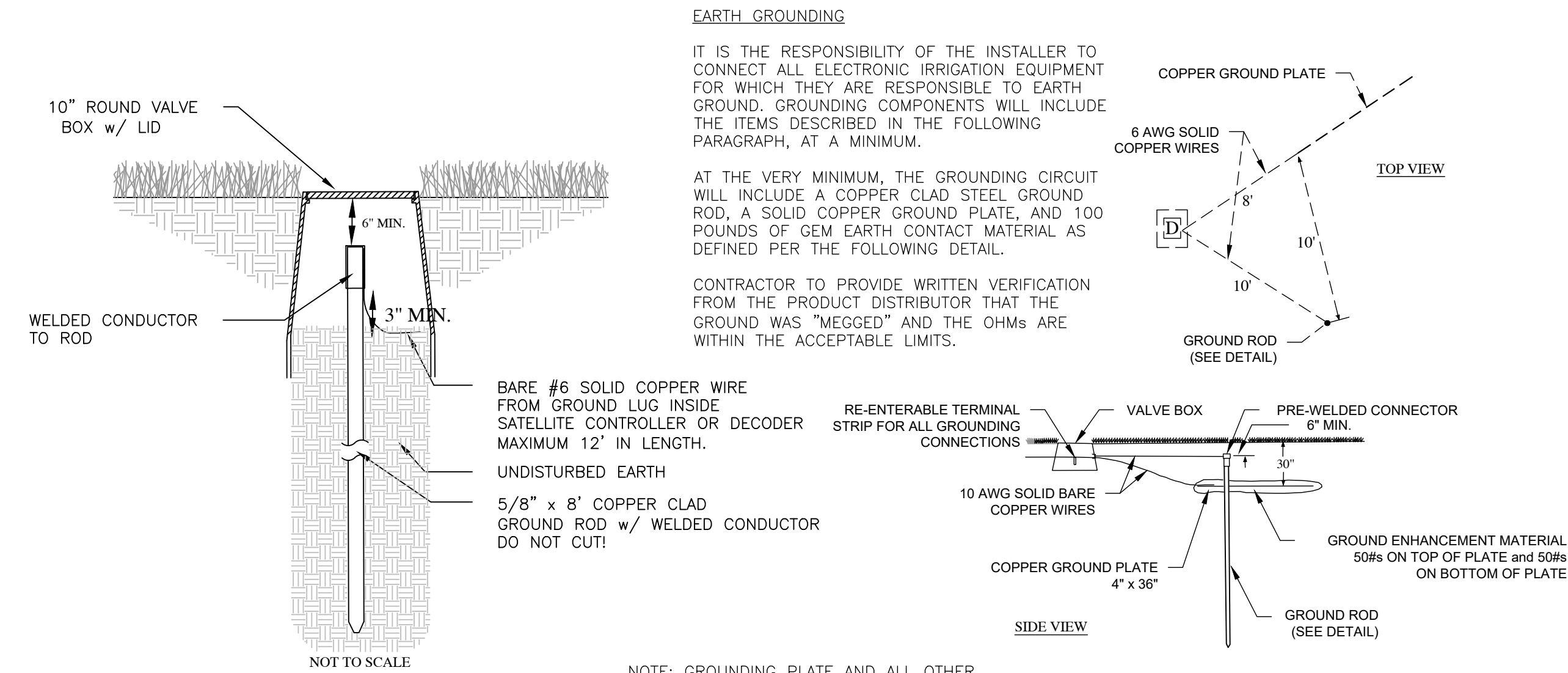


15 6-INCH POP UP SPRAY
SPRINKLER ASSEMBLY

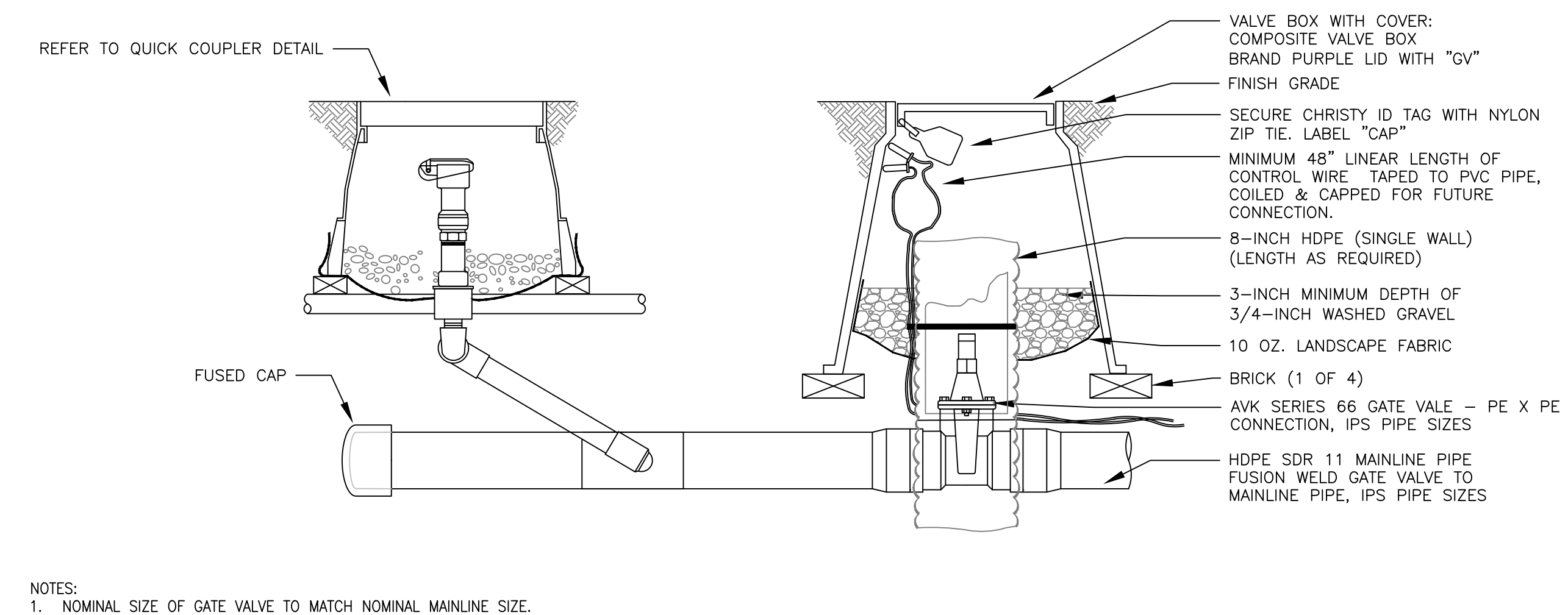


NOTES:
1. IF POLYETHYLENE PIPE IS USED FOR LATERAL PIPE, SUBSTITUTE INSERT TEE OR EL WITH STAINLESS STEEL CLAMPS FOR PVC SLIP TEE OR EL SHOWN ABOVE.
2. TO ACHIEVE MINIMUM RADIUS WITH ANY MP ROTATOR MODEL, USE HUNTER PRS30 BODY

16 4-INCH POP UP
MP-ROTATOR ASSEMBLY

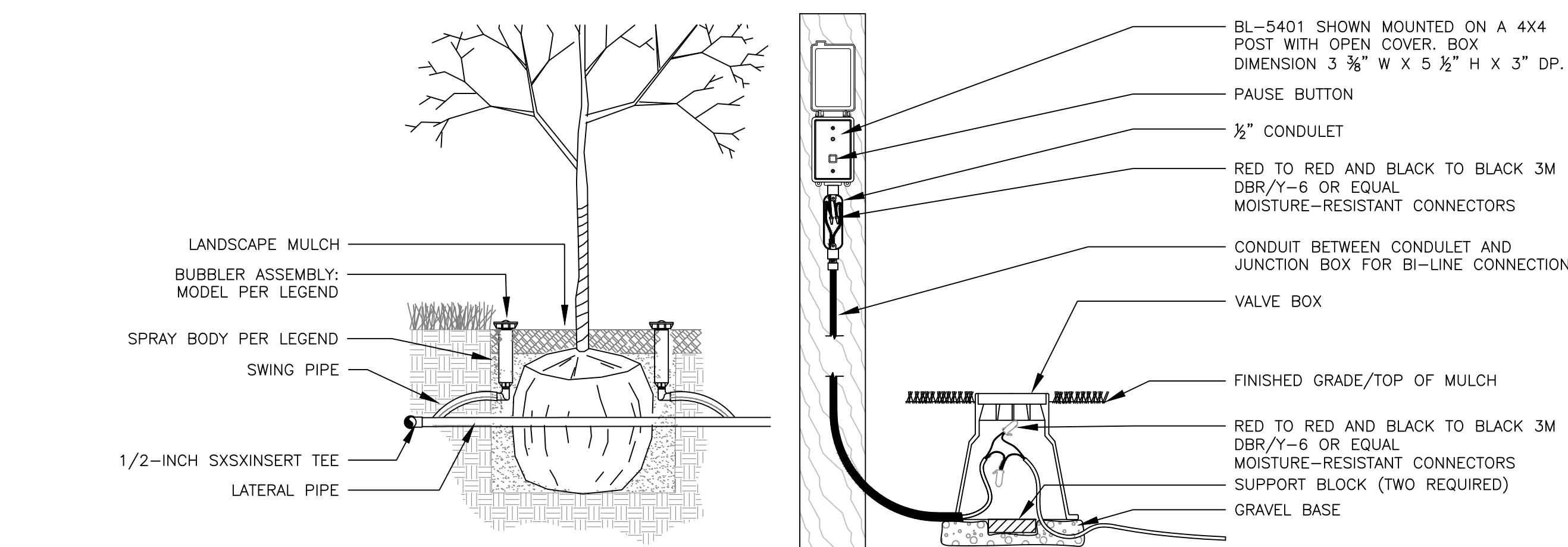


17 TYPICAL GROUNDING
SCHEMATIC INSTALLATION



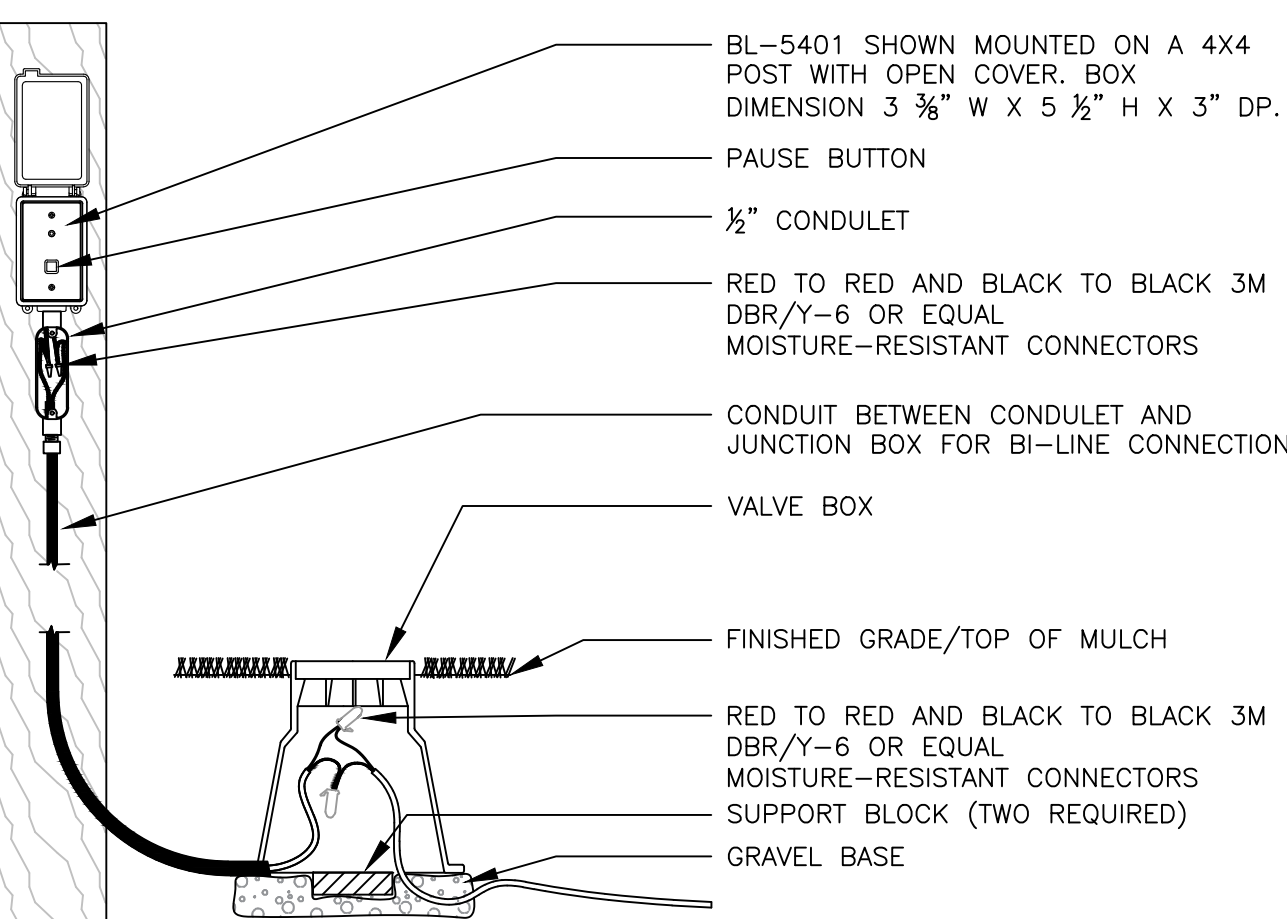
NOTES:
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

18 MAINLINE & CONTROL WIRE
STUB-OUT (FUTURE CONNECTION)



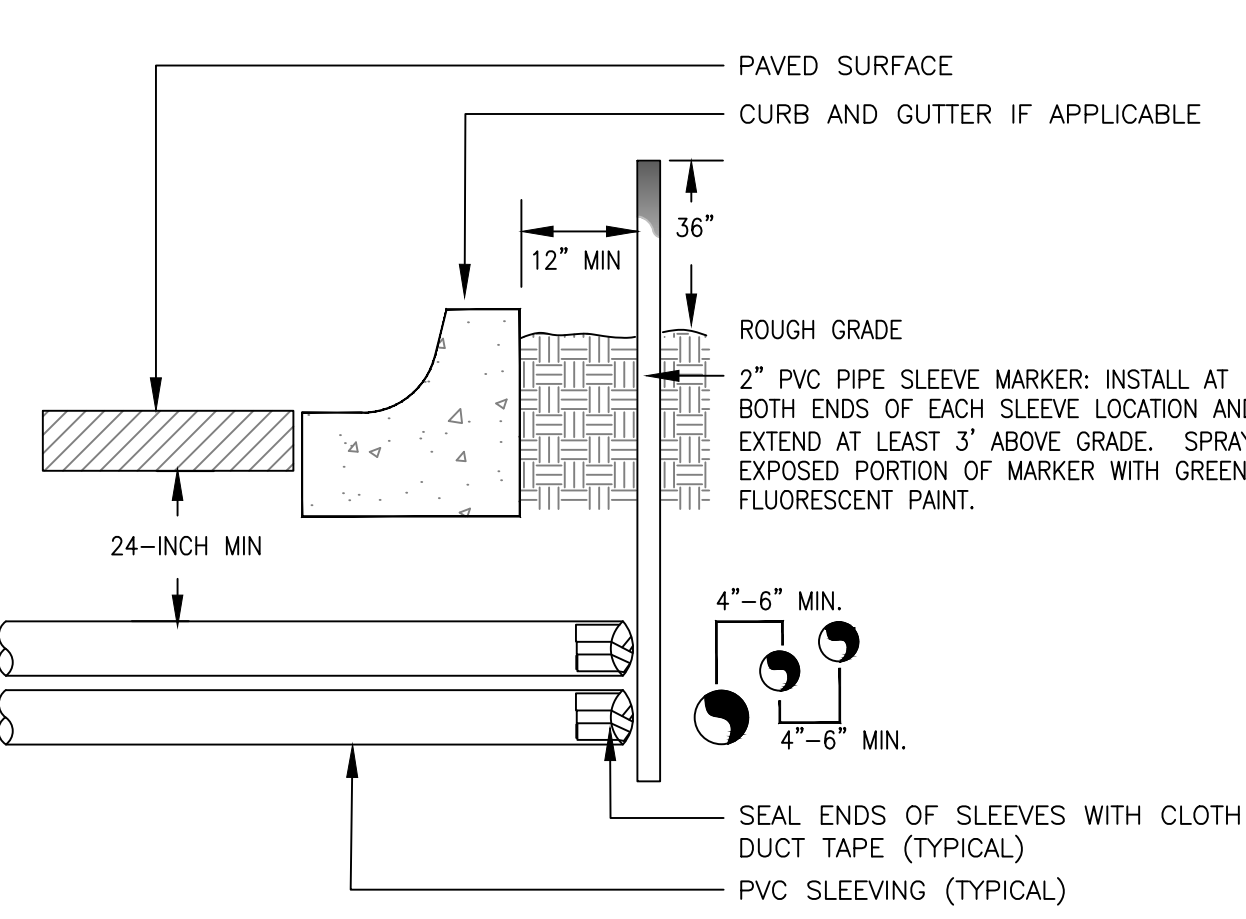
NOTES:
1. REFER TO LANDSCAPE PLANS FOR TREE GRATE INSTALLATION AND DETAILS.

19 POP-UP TREE BUBBLER ASSEMBLY



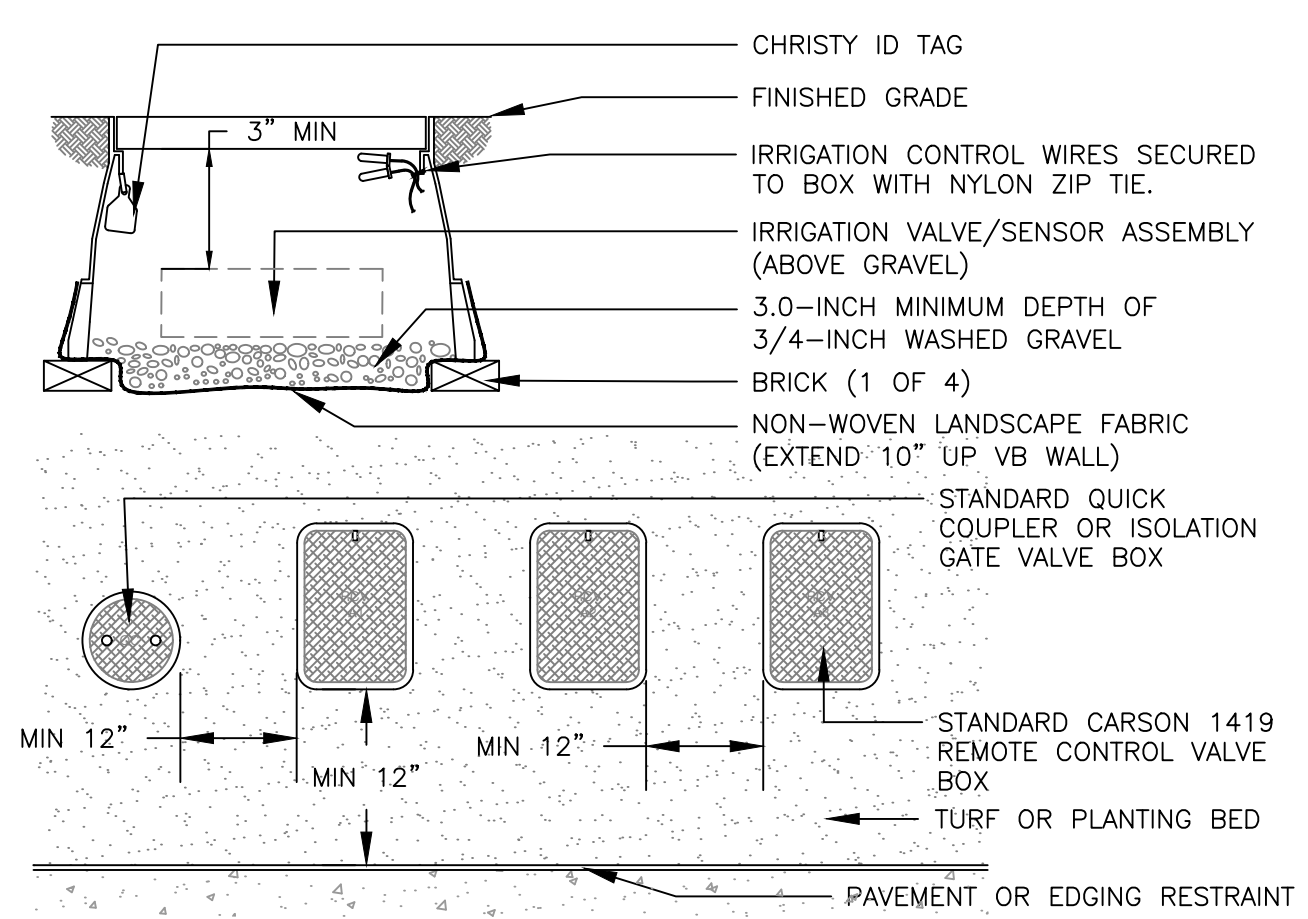
NOTE:
1. THE BL-5401 EVENT PAUSE UNIT MAY BE MOUNTED ON AN EXTERIOR WALL OR POST AS CONVENIENT FOR USERS. MOUNT FIVE FEET ABOVE GRADE.

20 BL-5401 COACH'S BUTTON
INSTALLATION & WIRING (NTS)



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\"/>

21 TYPICAL SLEEVING
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.

22 TYPICAL VALVE BOX
INSTALLATION

Project: **Loudy Simpson Park**

Location: **600 South Ranney Street**

Craig, Colorado

Client: **Moffat County**

Client Address: **Craig, Colorado**

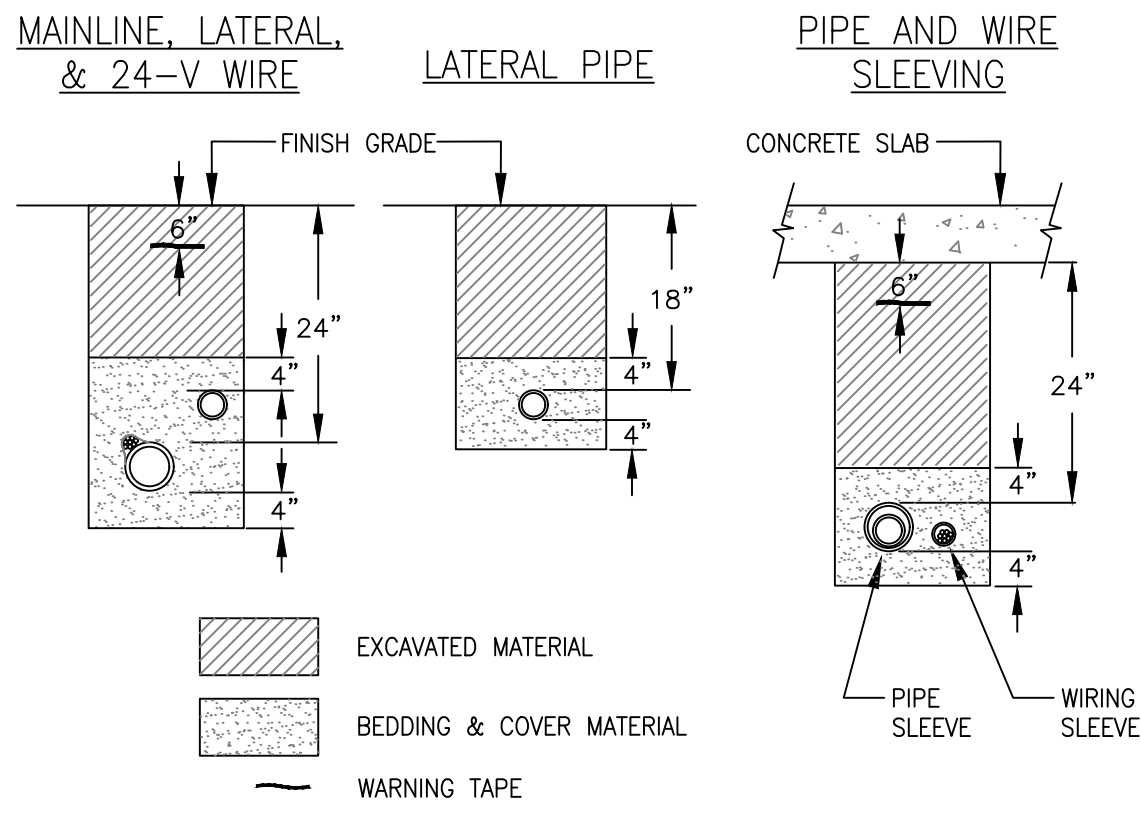
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Reviewed: BJ, CD
Date Issued:
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Sheet Title:
IRRIGATION DETAILS

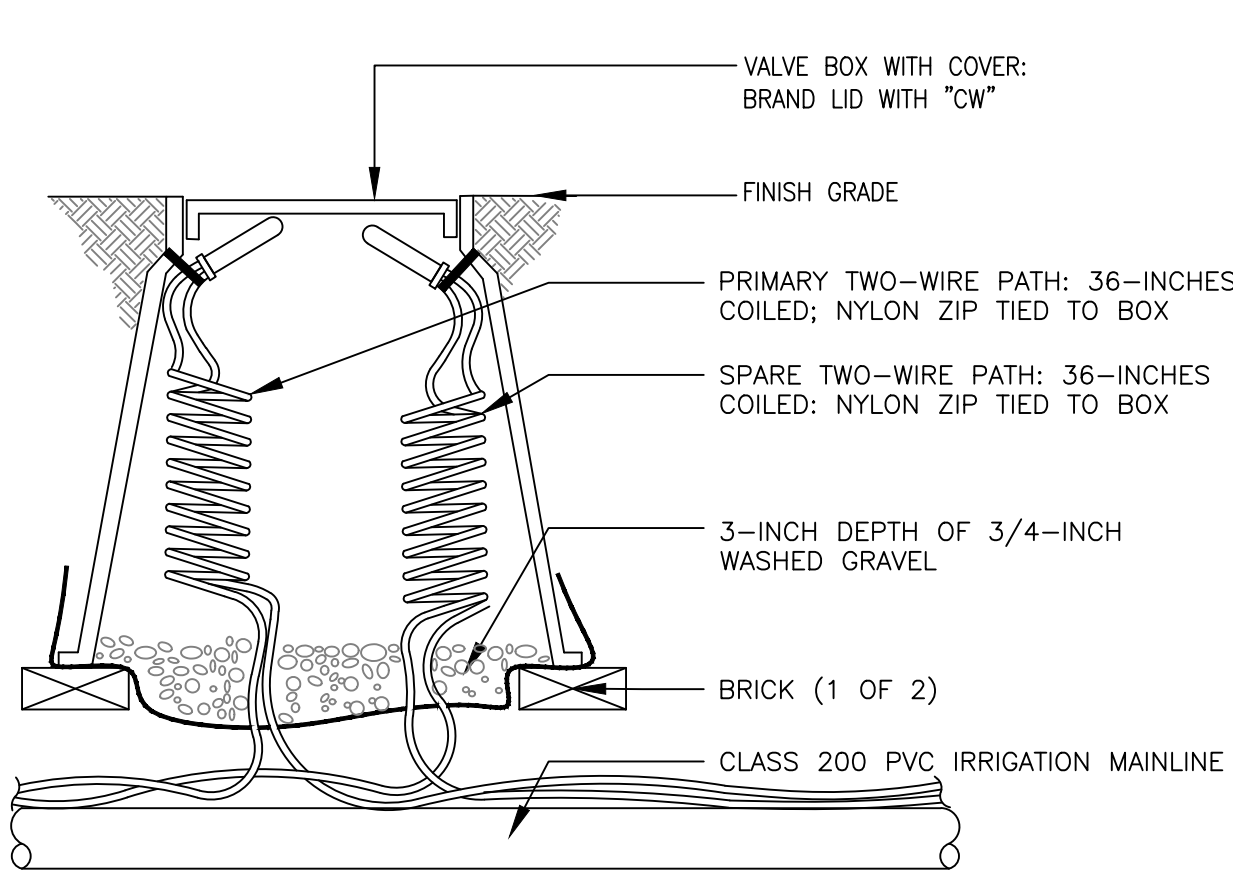
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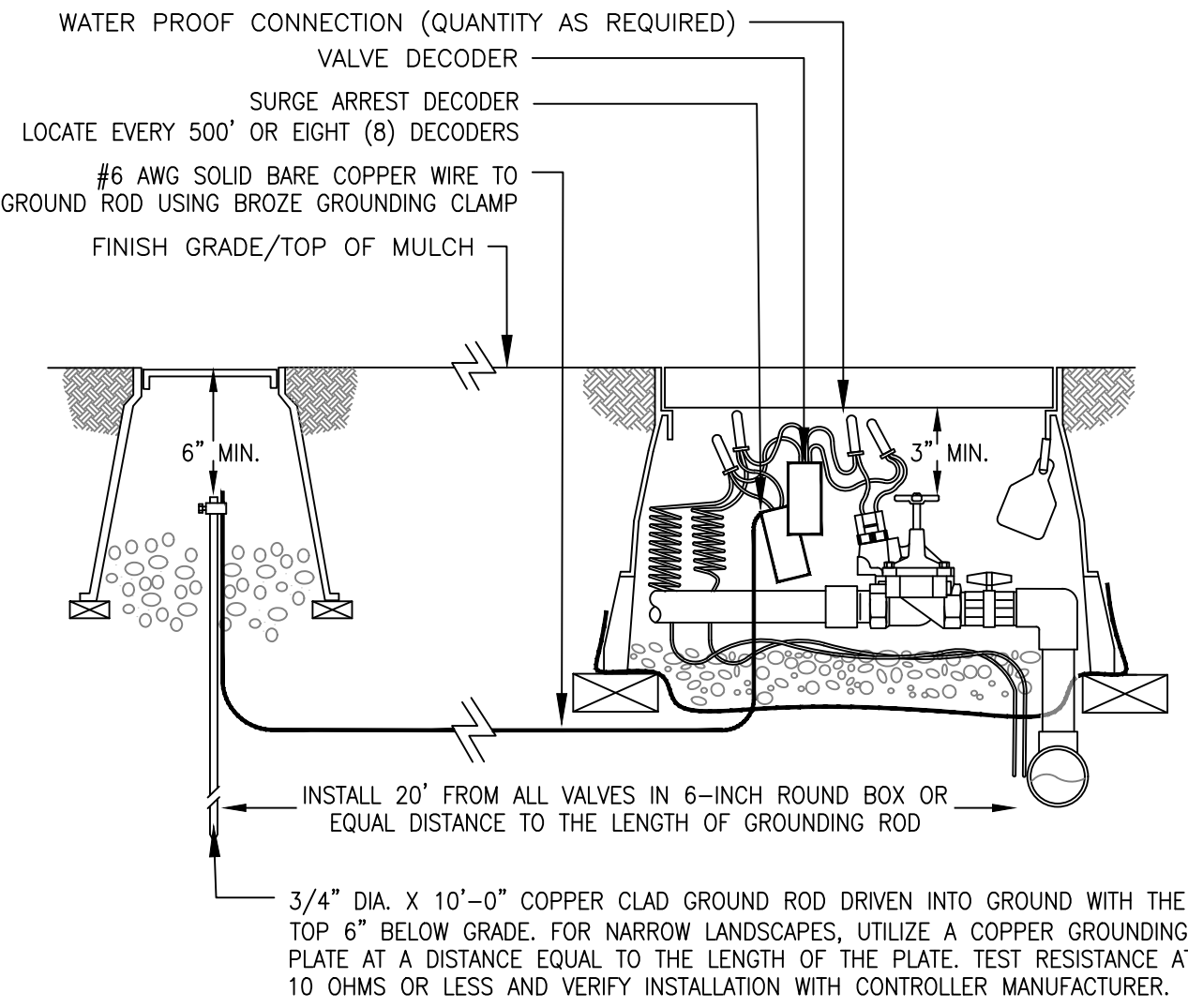


NOTES:
1. SLEEVE ALL PIPE AND WIRE SEPARATELY.
2. ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS."SNAKE" UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
3. ALL 120-V WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.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

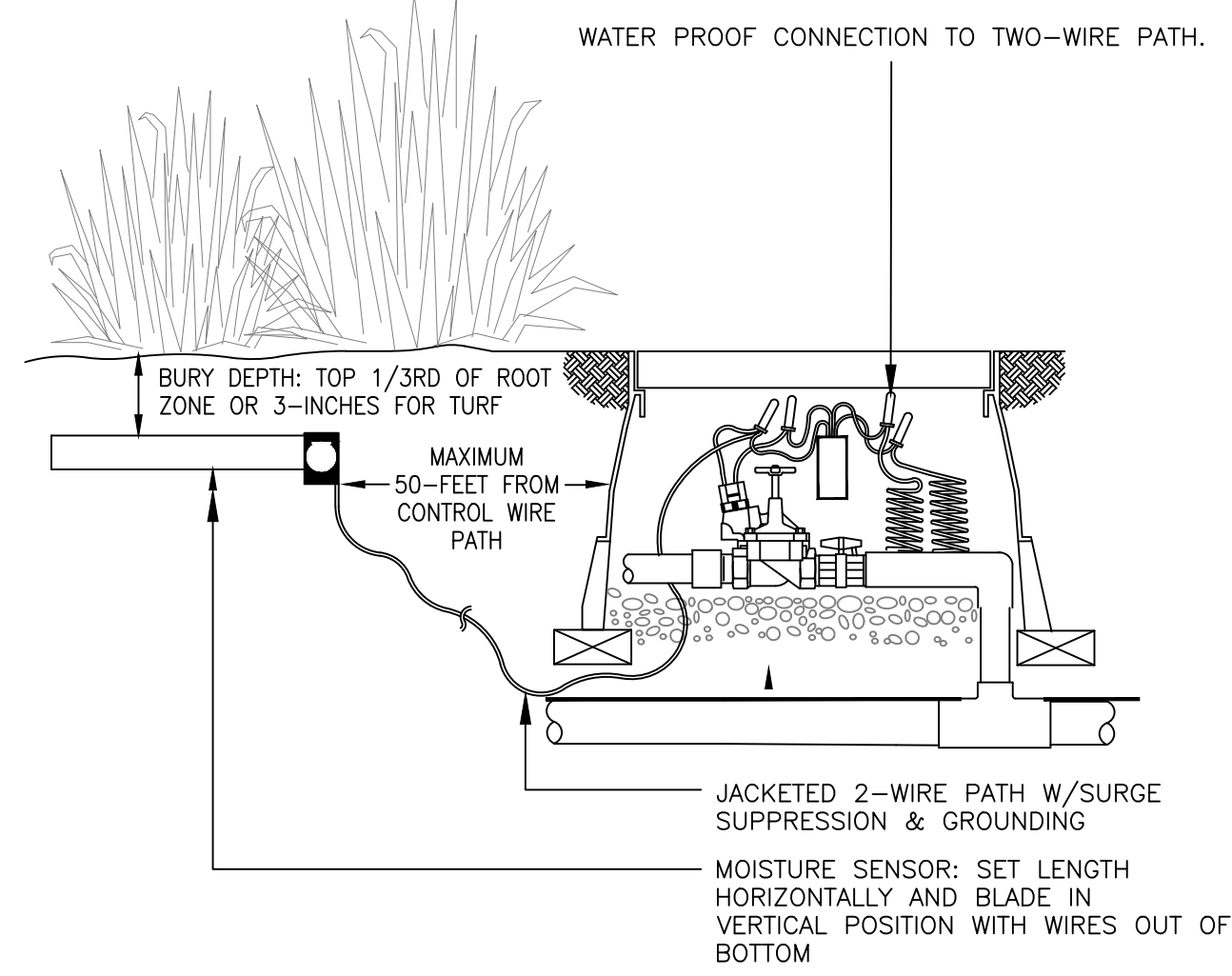
23 TYPICAL TRENCHING
DETAIL



24 IRRIGATION CONTROL WIRE
SPLICE JUNCTION BOX



25 TYPICAL GROUNDING
(AT VALVE) ASSEMBLY



26 SOIL MOISTURE
SENSOR ASSEMBLY

Project: **Loudy Simpson Park**
Location: 600 South Ranney Street
Craig, Colorado
Client: **Moffat County**
Client Address: Craig, Colorado

Designed: FE, BJ
Drafted: FE
Reviewed: BJ, CD
Date Issued:
2026.04.14 (100% CD)

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Sheet Title:
IRRIGATION DETAILS
Sheet Number:

IR-3.04

PUMP STATION SPECIFICATIONS:
NAME: LOUDY SIMPSON PARK IRRIGATION PUMP

PUMP STATION TO BE MANUFACTURED BY WATERTRONICS, OR APPROVED EQUAL.
BASIS OF DESIGN: WATERTRONICS HC SERIES
CONTACT ERIC PIFER FOR PRICING @ 262-224-3263

STATION MODEL:HCLVE-7C-40X2/5VMSV-480-3-800-95

STATION TOTAL PERFORMANCE: 800 GPM @ 95 PSI
MAX LIFT: 8 FT

PUMP HORSEPOWER:
PUMP #1: 5 HP (3600 RPM)
PUMP #2: 40 HP (1800 RPM)
PUMP #3: 40 HP (1800 RPM)

PUMP STATION DISCHARGE CONNECTION: 10" ANSI FLANGE

POWER REQUIREMENTS:
480V, 60 HZ, 3 PH, 121 FLA, 200 AMP DISCONNECT
SCCR: 35KA

DESCRIPTION OF OPERATION:

PUMP WILL START VIA PRESSURE DROP SENSED IN WATER MAINLINE AND REGULATE A CONSTANT PRESSURE AT VARIABLE FLOW RATE. PUMP WILL RETIRE BASED UPON AN ADJUSTABLE MINIMUM WATER DEMAND (FLOW) AND SUSTAINED REGULATE PRESSURE.

SYSTEM SHALL INCORPORATE ELECTRONIC BUTTERFLY VALVES ON EACH PUMP DISCHARGE TO SERVE AS A BACK-UP PRESSURE REGULATION MODE, WHICH WILL REGULATE PRESSURE IN THE EVENT OF A VFD ALARM OR FAILURE. EBV BACK UP MODE SHALL ENGAGE AUTOMATICALLY WITHOUT HUMAN INTERVENTION.

WATER WILL BE DRAWN OUT OF POND. PUMP STATION SHALL HAVE THE ABILITY TO START UP TO (1) REMOTE FILL SOURCES VIA DRY CONTACT CLOSURE. IF POND LEVEL CONTINUES TO DROP WITH ALL FILL SOURCES ON, PUMP STATION WILL SHUT DOWN UPON LOW LEVEL ALARM. PUMP STATION WILL RE-ENABLE WHEN RE-SET LEVEL IS SATISFIED. A MECHANICAL LOW LEVEL FLOAT SHALL BE INCLUDED AND SET BELOW ALARM LEVEL TO PROTECT PUMP SHOULD LEVEL SENSOR FAIL. FLOAT ALARM MUST BE MANUALLY RE-SET.

AUTOMATIC DISCHARGE FILTRATION SHALL BE FLUSHED UPON (3) INPUTS. DIFFERENTIAL PRESSURE, TIMED INTERVAL, AND TOTAL GALLONS PUMPED, WHICHEVER OCCURS FIRST. FILTER SHALL ALSO TRIGGER AN ALARM AFTER (3) FLUSH CYCLES AND PRESSURE DIFFERENTIAL IS NOT RESTORED TO CLEAN SCREEN.

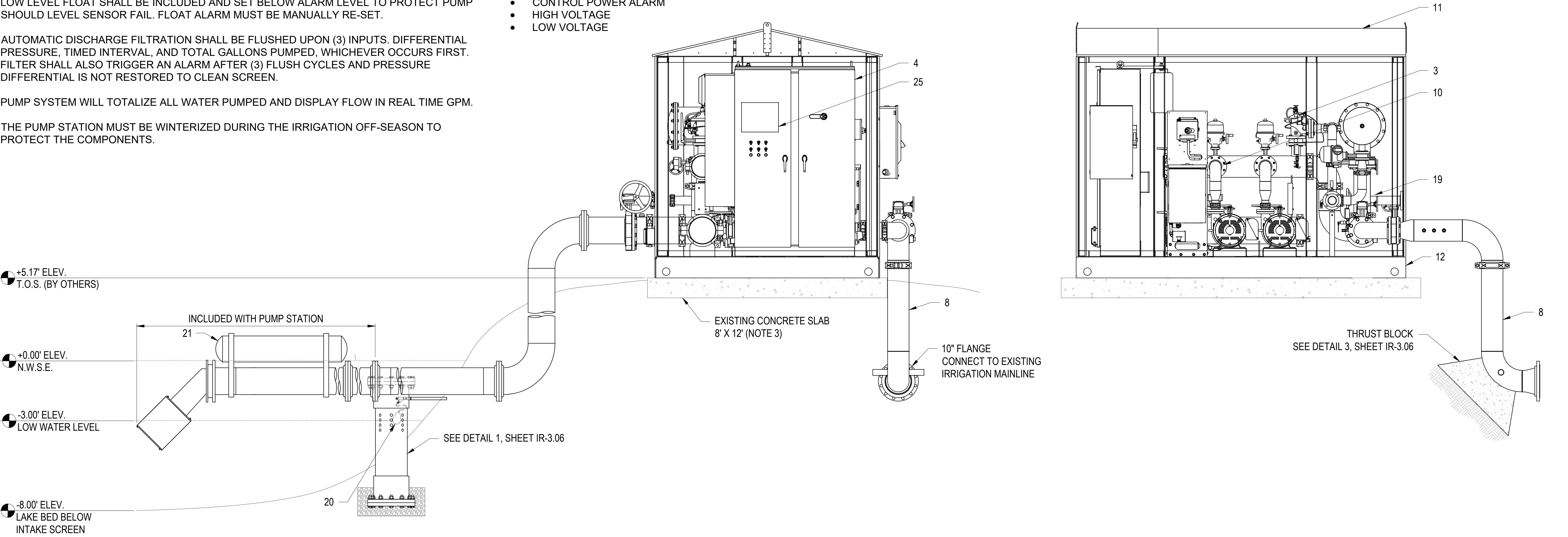
PUMP SYSTEM WILL TOTALIZE ALL WATER PUMPED AND DISPLAY FLOW IN REAL TIME GPM.

THE PUMP STATION MUST BE WINTERIZED DURING THE IRRIGATION OFF-SEASON TO PROTECT THE COMPONENTS.

- STATION COMPONENTS:
- 40 HP MAIN PUMP AND MOTOR
 - 5 HP MAINT. PUMP AND MOTOR
 - PRESSURE RELIEF VALVE
 - UL 508 LISTED ELECTRICAL CONTROL PANEL
 - CHECK VALVE
 - ELECTROMAGNETIC FLOW METER
 - SCH. 40 EPOXY COATED STEEL PIPE
 - FLANGED (ANSI) DISCHARGE DROP PIPE W/ 360DEG SWIVEL
 - 2" THREADED PORT FOR WINTER BLOW OUT
 - PUMP ISOLATION VALVE W/ EBV ACTUATOR
 - COMPOSITE PUMP STATION ENCLOSURE (SANDSTONE)
 - PAINTED STEEL BASE (SANDSTONE)
 - FILTER BY-PASS VALVE
 - PREMIUM SURGE PROTECTION
 - AIR CONDITIONER
 - VAF S.S. AUTOMATIC DISCHARGE FILTER W/ 200 MICRON SCREEN
 - POWER CENTER FOR ENCLOSURE POWER
 - DISCHARGE FILTER FLUSH VALVE
 - FILTER ISOLATION VALVE
 - REMOTE LEVEL FLOAT
 - FLOATING HDPE INTAKE SUCTION LINE ASSEMBLY W/ FOOT VALVE
 - WATERVISION CLOUD REMOTE PUMP STATION ACCESS (APP, COMPUTER)
 - STATION DISCHARGE ISOLATION VALVE
 - SERVICE ENTRANCE RATED DISCONNECT SWITCH (INCLUDED WITH PUMP STATION)
 - COLOR TOUCH SCREEN OPERATOR INTERFACE
 - POSITIVE PRIME
 - 5 KW HEATER

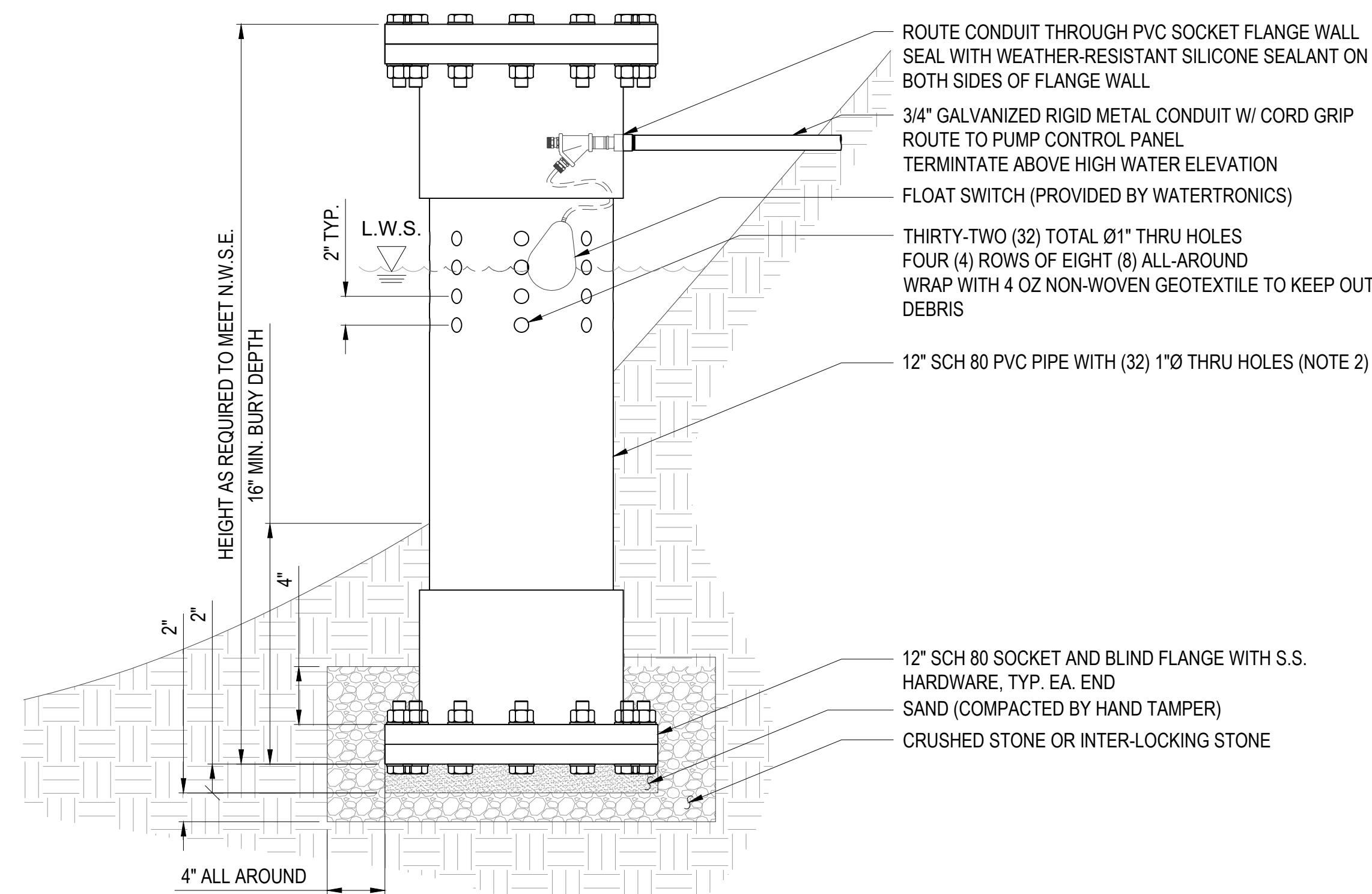
SYSTEM SHALL HAVE THE FOLLOWING ALARMS AT MINIMUM

- HIGH DISCHARGE PRESSURE
- LOW DISCHARGE PRESSURE
- VFD FAULT
- FILTER ALARM
- LOW LEVEL ALARM W/ AUTO RE-SET
- LOW LEVEL FLOAT (HARD FAULT, MANUAL RE-SET)
- PIPE FILL ALARM (SYSTEM CAN NOT PRESSURIZE)
- LOSS OF PHASE OR PHASE REVERSAL
- CONTROL POWER ALARM
- HIGH VOLTAGE
- LOW VOLTAGE



- NOTES:
- INSTALL PUMP STATION, FLOATING INTAKE ASSEMBLY, AND FLOAT SWITCH PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 - ROUTE 3" PVC FILTER FLUSH WASTE WATER TO POND EDGE AWAY FROM INTAKE PIPE (BY CONTRACTOR). PIPE MUST GRAVITY DRAIN AND TERMINATE AT POND EDGE ABOVE WATER LEVEL.
 - THE EXISTING SLAB HAS BEEN USED AT THE OWNERS REQUEST AND IS UNDERSTOOD TO HAVE BEEN CONSTRUCTED USING DRILLED PIER FOOTINGS SUITABLE FOR THE SITE CONDITION AND EXPECTED LOAD.
 - VERIFY ALL ELEVATIONS PRIOR TO EQUIPMENT PROCUREMENT AND CONSTRUCTION.

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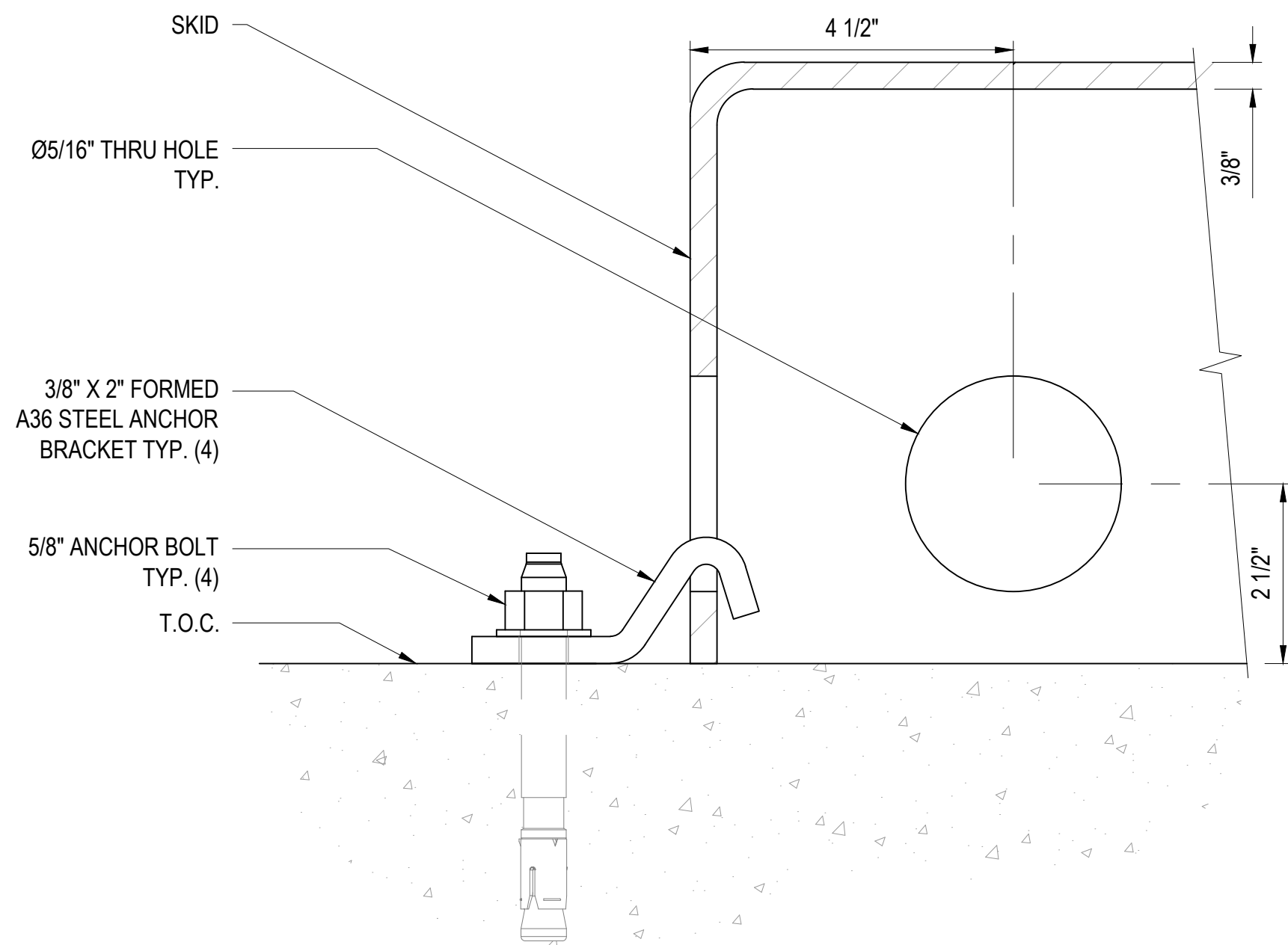


- NOTES:
1. PROVIDE LEVEL, COMPACTED SUBGRADE BEFORE GRAVEL IS PLACED.
 2. LIGHTLY SAND ALL EXPOSED PVC MATERIAL WITH 220-GRIT SANDPAPER AND WIPE IT WITH ACETONE TO REMOVE GREASE. APPLY A PLASTIC-BONDING PRIMER FORMULATED FOR PLASTICS THEN APPLY 100% ACRYLIC EXTERIOR PAINT OR SPRAY PAINT SPECIALLY FORMULATED FOR PLASTICS.
 3. SET FLOAT TO SHUT DOWN PUMP ON LOW WATER LEVEL.

1

LOW-LEVEL FLOAT SWITCH
ASSEMBLY

1'-1/2" = 1'-0"

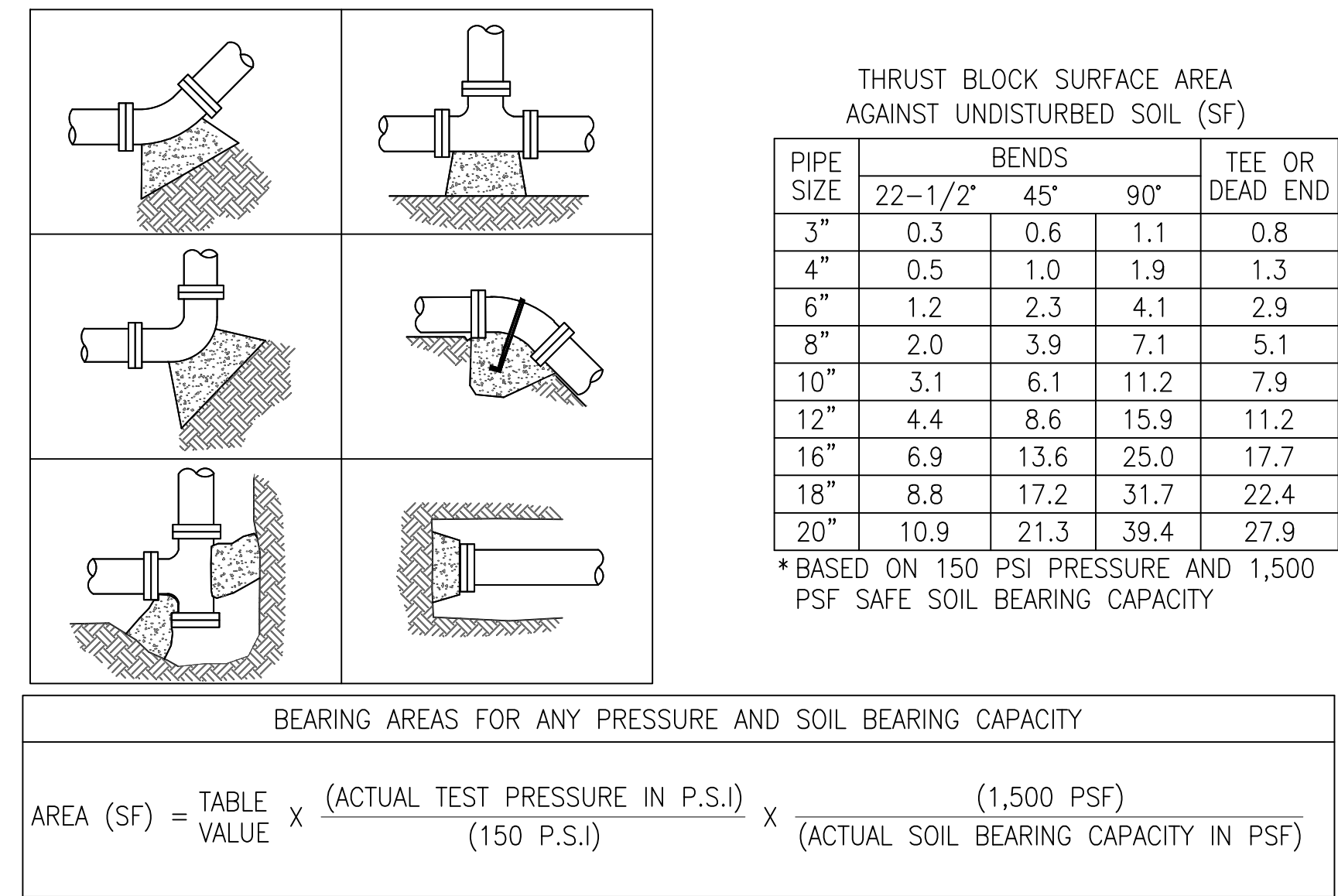


- NOTES:
1. ANCHOR PUMP STATION SKID TO CONCRETE SLAB FLOOR PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 2. TWO LIFTING HOLES ARE LOCATED AT ALL FOUR CORNERS (8 TOTAL).
 3. INSTALL ANCHORS AT 4 OPPOSITE CORNERS.

2

LIFTING HOLE AND ANCHOR
DETAIL

6" = 1'-0"



- NOTES:
1. USE NO. 4 REBAR WITH MASTIC COATING WHERE PIPE MUST BE ANCHORED TO THRUST BLOCK.
 2. INSTALL THRUST BLOCK AGAINST UNDISTURBED SOIL, ENSURING HORIZONTAL AND VERTICAL DIMENSIONS OF THE THRUST BLOCK ARE APPROXIMATELY EQUAL.
 3. THRUST BLOCKS TO MEET ASABE S-376.1 STANDARDS.
 4. OBTAIN SAFE SOIL BEARING CAPACITY FROM GEOTECHNICAL REPORT. IN THE ABSENCE OF SOIL BEARING CAPACITY INFORMATION, USE 1,000 PSF.

3

TYPICAL THRUST BLOCK
DETAIL & SPECIFICATION

N.T.S.

Project:

Location:

Client:

Loudy Simpson Park

600 South Ranney Street

Craig, Colorado

Moffat County

Craig, Colorado

Designed: JK
Drafted: JK
Reviewed: MW, BJ
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