

## **IRRIGATION LEGEND**

| <b>—</b>                     | POINT-OF-CONNECTION ASSEMBLY  |                      |  |  |  |  |
|------------------------------|---|----------------------|--|--|--|--|
|                              | MAINLINE PIPE: CLASS 200 PVC<br>4-INCH SIZE UNLESS OTHERWISE INDICATED  |                      |  |  |  |  |
| —                            | MAINLINE PIPE: CLASS 200 PVC<br>Existing  |                      |  |  |  |  |
|                              | LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC<br>1 1/2-INCH SIZE UNLESS OTHERWISE INDICATED   |                      |  |  |  |  |
|                              | UNCONNECTED PIPE CROSSING   |                      |  |  |  |  |
| •                            | REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS:<br>HUNTER PGV SERIES  |                      |  |  |  |  |
| ۲                            | QUICK COUPLING VALVE ASSEMBLY: HUNTER HQ-5RC  |                      |  |  |  |  |
| M                            | ISOLATION GATE VALVE ASSEMBLY: MATCO 514  |                      |  |  |  |  |
| F                            | FLOW SENSOR ASSEMBLY: HUNTER HC-200-FLOW  |                      |  |  |  |  |
| $\langle \mathbf{x} \rangle$ | MASTER VALVE ASSEMBLY: SUPERIOR 3300300 (3") NORMALLY OPEN  |                      |  |  |  |  |
|                              | BACKFLOW PREVENTION ASSEMBLY: 3" FEBCO LF880V   |                      |  |  |  |  |
| Μ                            | WATER METER AND CURB STOP ASSEMBLY: 3" BY UTILITY CONTRACTOR  |                      |  |  |  |  |
| Ρ                            | PUMP ASSEMBLY: SEE SHEET IR3  |                      |  |  |  |  |
| A                            | IRRIGATION CONTROLLER UNIT<br>HUNTER HPC-400 WITH PC-DM TWO-WIRE MODULE<br>MOUNTED IN STRONGBOX SB-16SS PEDESTAL ENCLOSURE<br>AND WIFI-EXT-KIT UNIVERSAL ANTENNA EXTENTION KIT      |                      |  |  |  |  |
| A1<br>14<br>1"<br>Turf       | INDICATES CONTROLLER AND STATION NUMBER<br>INDICATES LATERAL DISCHARGE (GPM)<br>INDICATES VALVE SIZE (INCHES)<br>INDICATES WHICH FIELD THE VALVE IRRIGATES<br>(M=MATCH, P=PRACTICE) |                      |  |  |  |  |
| මෙමමම                        | POP-UP GE<br>PRESSURE<br>NOZZLE<br>8<br>10<br>13<br>15<br>23<br>25  |                      | ROTORS: HUNTER I-40-04-SS<br>FLOW<br>9.2 GPM<br>11.3 GPM<br>12.3 GPM<br>15.7 GPM<br>21.3 GPM<br>23.9 GPM |  |  |  |
|                              | POP-UP GEAR DRIVEN ROTORS: HUNTER I-40-04-SS-ON<br>PRESSURE: 60 PSI   |                      |  |  |  |  |
| (18)                         | NOZZLE<br>18  | RADIUS<br><b>59'</b> | FLOW<br><b>15.2 GPM</b>  |  |  |  |

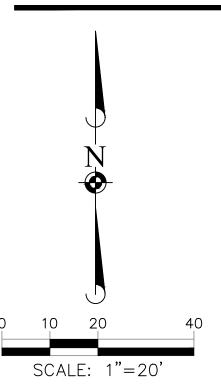
## **INSTALLATION GENERAL NOTES**

18 59'

1. THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE **IRRIGATION SYSTEM OF 41 PSI (AT THE IRRIGATION WATER METE** DESIGN FLOW OF 120 GPM AT THE 4-INCH IRRIGATION POINT-OF-CONNECTION (POC). BOOSTER PUMP TO PROVIDE A M **DISCHARGE PRESSURE OF 80PSI AT THE POINT OF CONNECTION IRRIAGTION MAINLINE. TAP, METER, BACKFLOW PREVENTER, MA** VALVE AND FLOW METER SHALL BE SIZED AS INDICATED IN THE LEGEND. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONST

15.2 GPM

- 2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICA INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- 3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UND UTILITIES PRIOR TO CONSTRUCTION.
- 4. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION S WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRA DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED I ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, L NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH **OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE** REPRESENTATIVE.
- 5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOW **BE NOTED:**
- A. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUT PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE A IN LANDSCAPED AREAS WHENEVER POSSIBLE.
- B. TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PL PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AV CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING N AND ARCHITECTURAL FEATURES.
- C. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF T BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTING ALLOWED.
- 6. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR 1 **COMPLETION OF THE PROJECT:**



## **CONSTRUCTION NOTES**

Hines Inc THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER INSTALLED BY SITE WATER ENGINEERING SERVICES OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL BACKFLOW 323 W. DRAKE RD, SUITE 204 PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED. VERIFY FORT COLLINS, COLORADO 80526 EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE. Telephone: 970.282.1800 Web: www.hinesinc.com PEDESTAL 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. (3) ABANDON EXISTING IRRIGATION DISTRIBUTION PIPING IN PLACE. CAP ALL OPEN ENDS OF PIPE. (4) CONNECT TO EXISTING LATERAL PIPING. (5) REMOVE EXISTING IRRIGATION CONTROL VALVE AND VALVE BOX AND SURRENDER EQUIPMENT TO OWNER. INSTALL NEW CONTROL VALVE, VALVE BOX AND VALVE DECODER AND WIRE TO NEW IRRIGATION CONTROLLER. (6) REPLACE EXISTING MAINLINE IN THIS AREA. (7) SEE CIVIL DRAWINGS FOR THE TAP OF THE 10" WATER MAIN, WATER METER, AND PIPING TO BACKFLOW PREVENTER. IRRIGATION CONTRACTOR'S SCOPE OF WORK WILL BEGIN WITH THE BACKFLOW PREVENTER INSTALLATION.  $\square$ 

### THE MATCH PLAY FIELD IRRIGATION IS TO REMAIN ACTIVE DURING CONSTRUCTION ON THE PRACTICE FIELD. TEMPORARY 1-2 DAY INTERRUPTIONS IN IRRIGATION WILL BE ACCEPTED TO ALLOW FOR CONNECTION OF NEW CONTROL VALVES TO MATCH FIELD IRRIGATION ZONES, RECONFIGURING OF NEW IRRIGATION WATER SUPPLY, AND OTHER INSTANCES AS NECESSARY FOR THE INSTALLATION OF THE PRACTICE FIELD IRRIGATION SYSTEM.

ANY INTERRUPTION IN IRRIGATION FOR THE MATCH FIELD IS TO BE COORDINATED WITH FACILITIES STAFF 5 DAYS PRIOR TO THE PLANNED INTERRUPTION.

**EXISTING IRRIGATION OPERATION** 

ANY NON-PLANNED INTERRUPTION OF THE MATCH FIELD IRRIGATION OPERATION SHALL BE IMMEDIATELY REPORTED TO FACILITIES STAFF AND REPAIRS TO BE MADE TO RETURN THE SYSTEM TO OPERATIONAL STATUS WITHIN 48 HOURS.

| E FOR THE<br>ER), AT A             |     | A. TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.  |
|------------------------------------|-----|---|
| AINIMUM<br>TO THE<br>ASTER         |     | B. TWO (2) OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.  |
| DRAWING<br>FRUCTION.<br>ATIONS AND | 7.  | SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH<br>PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY<br>FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND<br>ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST<br>PERFORMANCE.                          |
| DERGROUND                          | 8.  | THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF<br>IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND<br>ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE<br>INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE   |
| SYSTEM<br>ADE<br>IN THE<br>EGEND,  |     | WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT<br>INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION<br>CONTRACTOR. PIPE SLEEVES SHALL BE SIZED TWICE THE NOMINAL SIZE OF<br>THE PIPE PASSING THROUGH.  |
| OWNER'S                            | 9.  | INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN<br>ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE<br>LOCAL ELECTRIC UTILITY CODES.  |
| 'ING SHOULD<br>'SIDE<br>AND WIRING | 10. | THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION<br>OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS,<br>THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS.<br>THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE<br>NOTED IN THE LEGEND. |
| LANS TAKE<br>/OID<br>MATERIALS,    | 11. | INSTALL TWO (2) #14 AWG CONTROL WIRES ON STANDARD WIRE SYSTEMS<br>OR ONE (1) #14 AWG TWO-WIRE PAIR ON TWO-WIRE SYSTEMS, FOR USE AS<br>SPARES. INSTALL SPARE WIRES FROM CONTROLLER LOCATION TO EACH<br>DEAD-END OF MAINLINE. COIL 3 FEET OF WIRE IN VALVE BOX.   |
| TEES IN THE<br>GS IS NOT           | 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.   |
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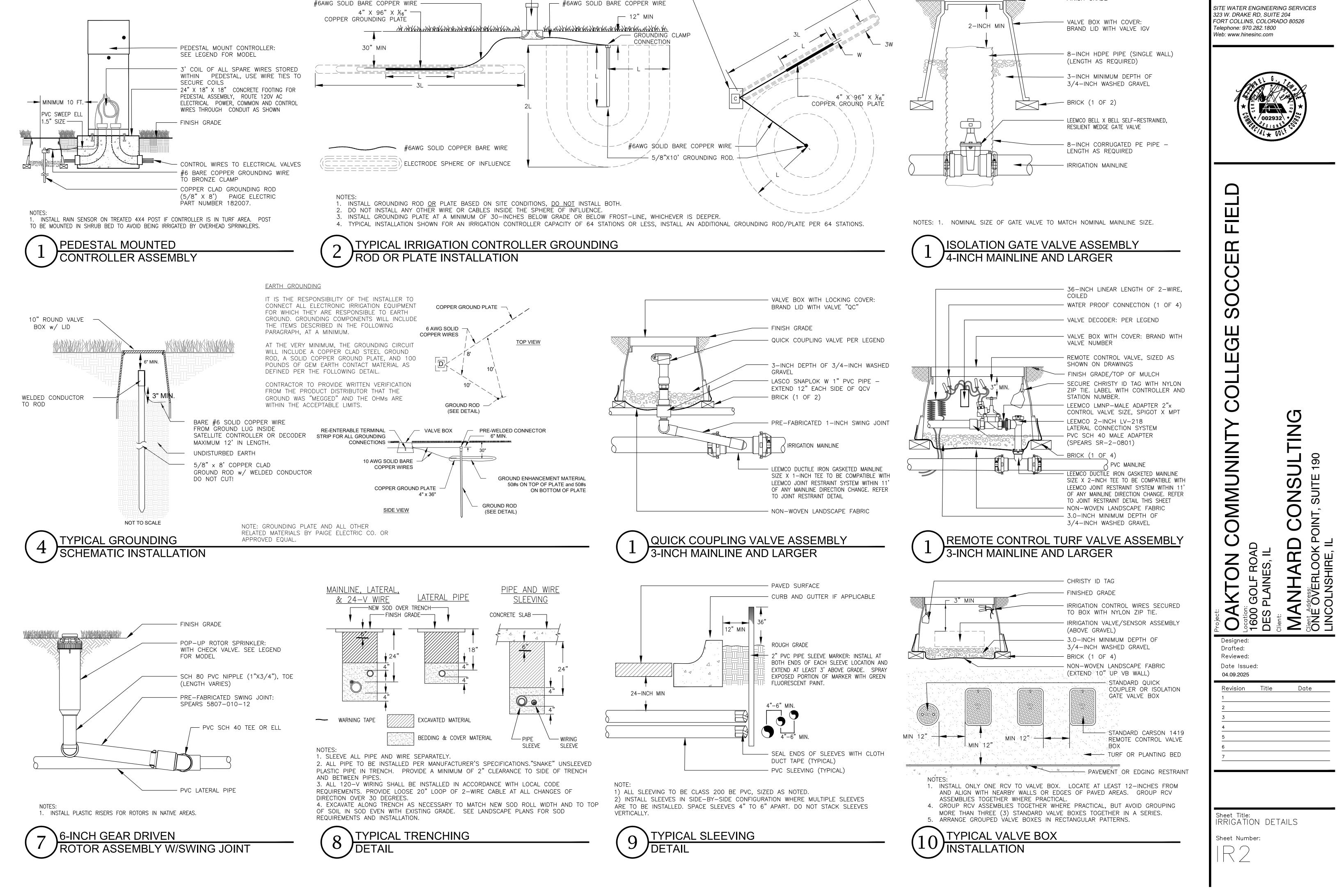
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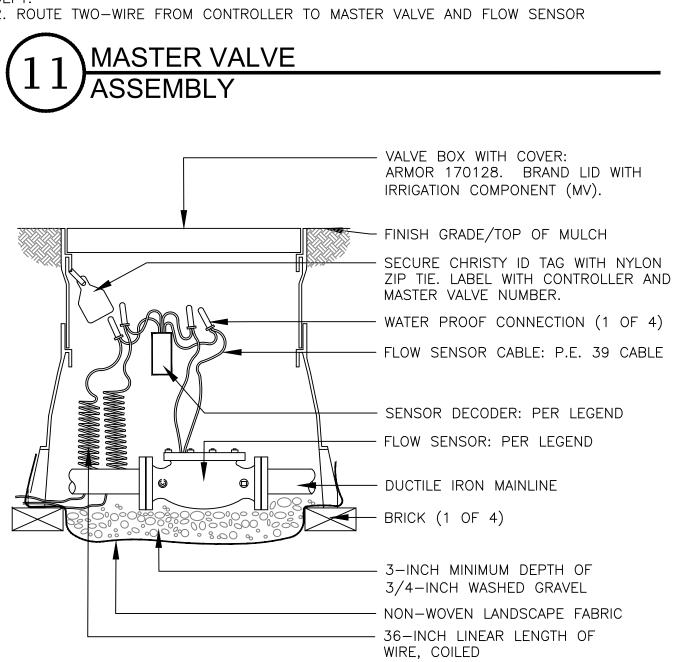
PLAN VIEW **PROFILE VIEW** - IRRIGATION CONTROLLER. —— #6AWG SOLID BARE COPPER WIRE

- FINISH GRADE

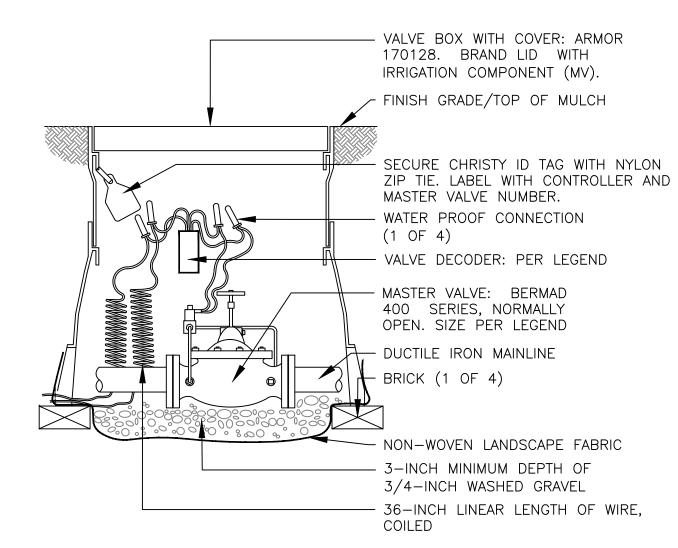


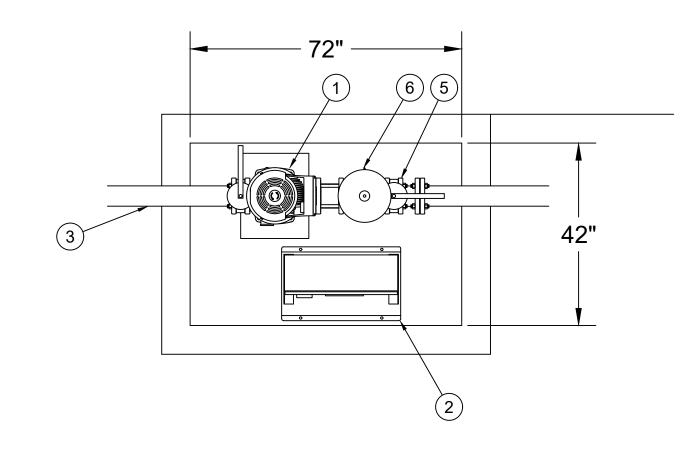
### FLOW SENSOR $\mathbf{n}$ ASSEMBLY

NOTE: 1. SEE PLAN FOR EXACT INSTALLATION LOCATION 2. ROUTE TWO-WIRE FROM CONTROLLER TO MASTER VALVE AND FLOW SENSOR



### NOTE: 1. INSTALL MASTER VALVE IN EXISTING MASTER VALVE VAULT, VERIFY LOCATION WITH PARKS DEPT. 2. ROUTE TWO-WIRE FROM CONTROLLER TO MASTER VALVE AND FLOW SENSOR

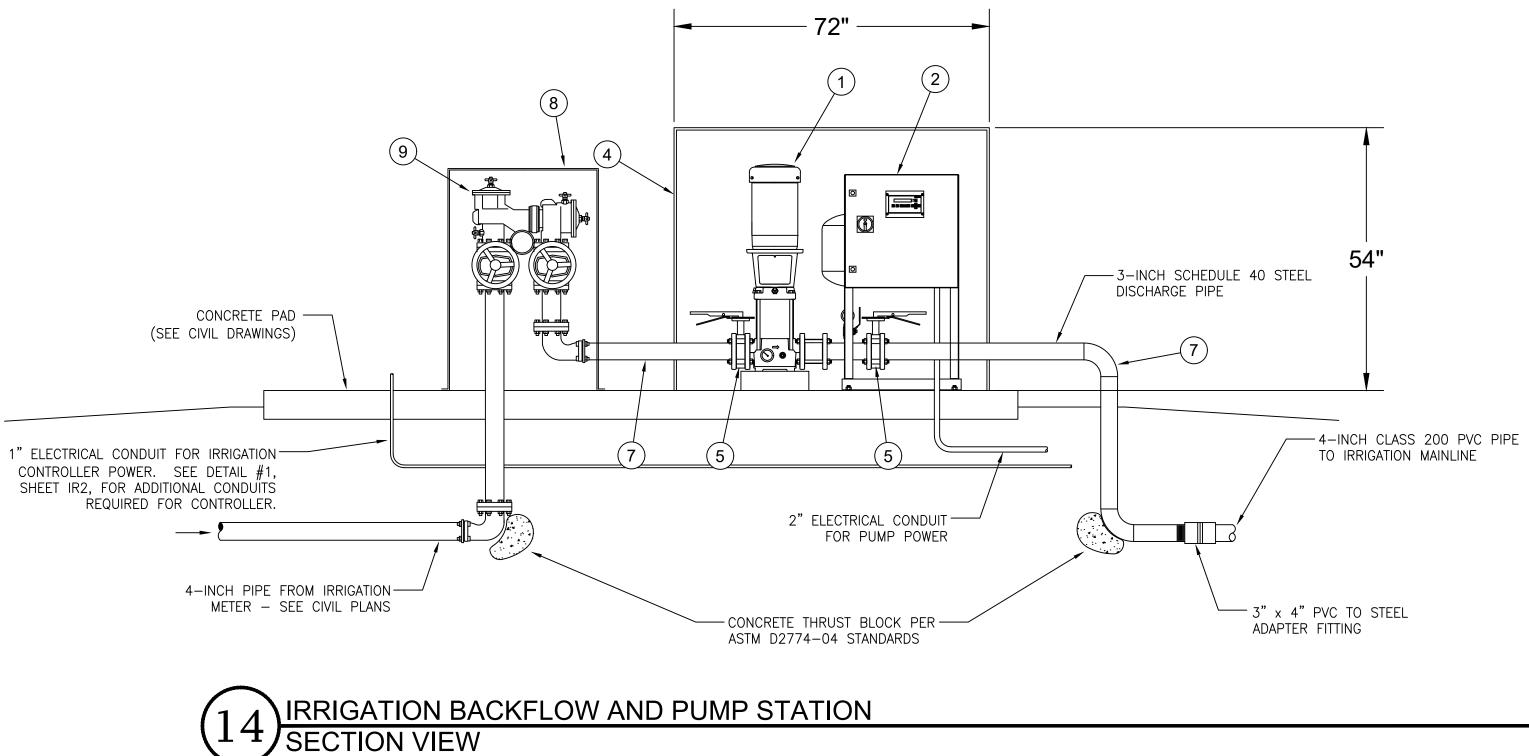




# IRRIGATION PUMP LEGEND

PUMP (OWNER PROVIDED) (3) 3-INCH SCHEDULE 40 STEEL PIPE. (4) MARINE GRADE WEATHER PROOF ALUMINUM ENCLOSURE. (5) 3-INCH BUTTERFLY VALVE (6) EXPANSION TANK 7 3-INCH STEEL INTAKE AND DISCHARGE PIPES TO BE FABRICATED BY WATERTRONICS (8) BACKFLOW ENCLOSURE: STRONGBOX SBBC-40ALHP





(1) 7.5HP GRUNDFOS CR 15-4 A-GJ-A-E-HQQE VERTICAL MULTISTAGE

2 NEMA RATED CONTROL PANEL, CONTAINS PUMP VFD, STARTER AND ALL PUMP STATION RELATED CONTROLS. PANEL TO BE BY WATERTRONICS.

9 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE: FEBCK LF880V, 3–INCH SIZE. INSTALL PER LOCAL CODES.



SITE WATER ENGINEERING SERVICES 323 W. DRAKE RD, SUITE 204 FORT COLLINS, COLORADO 80526 Telephone: 970.282.1800 Web: www.hinesinc.com



