



THE IRRIGATION PLANS AND SPECIFICATIONS FOR THIS PROJECT PREPARED BY SMITH TURF IRRIGATION COMPANY ARE SUPPLIED FOR USE BY OUR CLIENT ONLY AND MAY NOT BE COPIED OR REPRODUCED BY ANY PERSON OR PERSONS OTHER THAN SAID CLIENT OR HIS AGENTS. THESE PLANS AND SPECIFICATIONS SHALL BE USED ONLY IN CONNECTION WITH THE PARTICULAR WORK AND PRODUCTS SPECIFIED AND SHALL NOT BE USED IN CONNECTION WITH ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF SMITH TURF & IRRIGATION CO.



DRAWN: JFH	APPROVED: JFH	FILENAME: IRR091414	DATE: 9-14-14
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DRAWINGS FOR:  
**SMITHLAND ROAD SOCCER FIELD**  
HARRISONBURG, VIRGINIA  
**IRRIGATION LAYOUT**

SCALE: 1" = 30'

1 OF 1

SHEET:

PROJECT NO.: 1471040

NOTES & LEGENDS

HEADS

- - TORO T7 SERIES GEAR DRIVE SPRINKLER HEAD W/ STAINLESS STEEL RISER & #9 NOZZLE, 9.4 GPM.

PIPE

- DENOTES ROUTE OF PR 200 PVC LATERAL PIPING. SIZE AS LABELED.
- - - DENOTES ROUTE OF PR 200 MAIN LINE PIPING. SIZE AS LABELED.

VALVES

- ⊗ - LOCATION OF ELECTRIC 24 V.A.C. REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE (MODEL # TORO P220-26-08).
- ⊗ - LOCATION OF LINE SIZED ISOLATION VALVE.

CONTROLLER

- Ⓐ - LOCATION OF THE IRRIGATION CONTROLLER. THE CONTROLLER SHALL BE TORO CUSTOM COMMAND SERIES SOLID STATE UNIT WHICH SHALL BE OF THE PEDESTAL MOUNT STYLE. THE CONTROLLER SHALL BE OF THE MODEL NUMBER CC-M24. THE CONTROLLER SHALL BE MOUNTED UNISTRUT ASSEMBLY PROVIDED BY OWNER.

- ALL ELECTRICAL CONNECTIONS AND INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- ALL 120 VAC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODE REQUIREMENTS.

NOTE: THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING A 120 VAC POWER CIRCUIT AT THE CONTROLLER LOCATION. THE POWER SOURCE SHALL BE CAPABLE OF SUPPORTING A 10 AMPERE LOAD AT 120 VAC.

RAIN SENSOR

- Ⓡ - DENOTES THE LOCATION OF WIRELESS RAIN SENSOR.

BACKFLOW PREVENTION

- Ⓜ - DENOTES THE LOCATION OF A 2" LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY WHICH SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE BACKFLOW SHALL BE A FEBCO MODEL LF825Y-2.

WATER SUPPLY

- Ⓜ - DENOTES THE LOCATION OF THE IRRIGATION METER. THE METER SHALL BE THE OWNER'S RESPONSIBILITY. THE METER SHALL BE 2" IN SIZE.

PUMP

- Ⓟ - DENOTES THE LOCATION OF THE BOOSTER PUMP. THE PUMP SHALL PROVIDE A MINIMUM PRESSURE AND FLOW OF 100 PSI AT 120 GPM ON THE DISCHARGE SIDE OF THE PUMP. PUMP TO BE BERKELEY MODEL B11/2TPMS (7.5 HP).

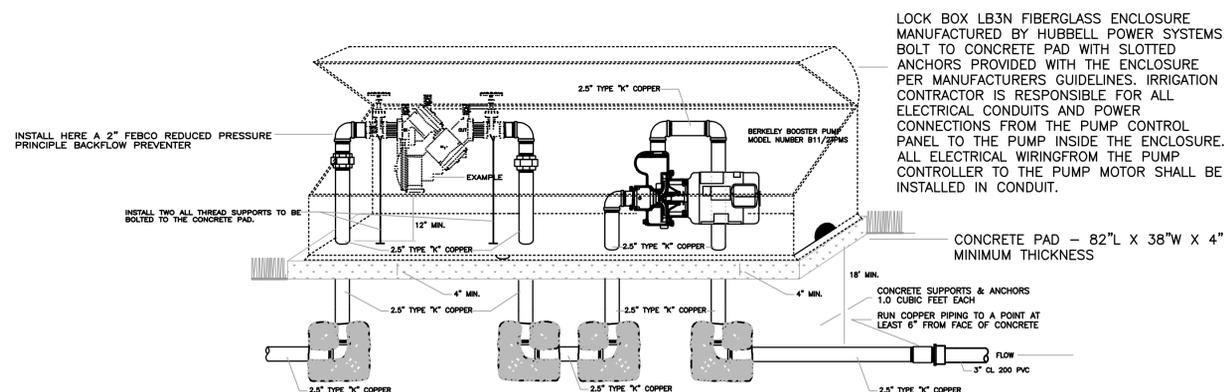
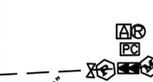
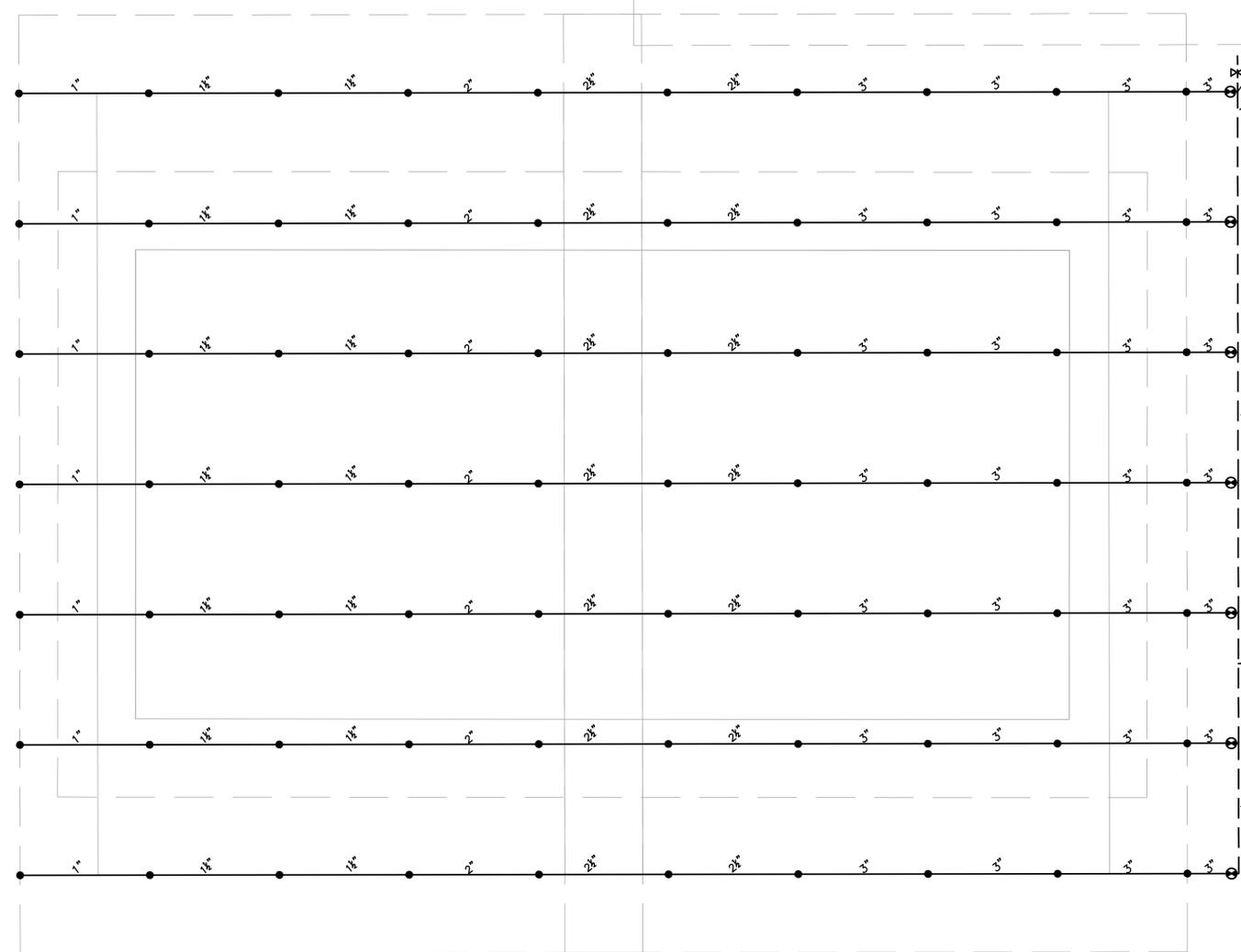
- Ⓟ - DENOTES THE LOCATION OF PUMP CONTROLLER (PC). THE PC SHALL BE A PENTEK VFD CONTROLLER, MODEL PPC3-2-46A2-1, 240 VAC, SINGLE PHASE INPUT. THE PC SHALL BE INSTALLED IN A NEMA4 ENCLOSURE. THE PC SHALL BE MOUNTED ON AN UNISTRUT ASSEMBLY PROVIDED BY OWNER.

- THE IRRIGATION SYSTEMS SHALL BE CAPABLE OF DELIVERING 120 GPM AT 100 PSI MAXIMUM WITH ONE STATION OPERATING WITH 60 PSI AT THE BASE OF THE HEAD FOR OPTIMUM PERFORMANCE OF THE IRRIGATION SYSTEM AS DESIGNED AND SPECIFIED.

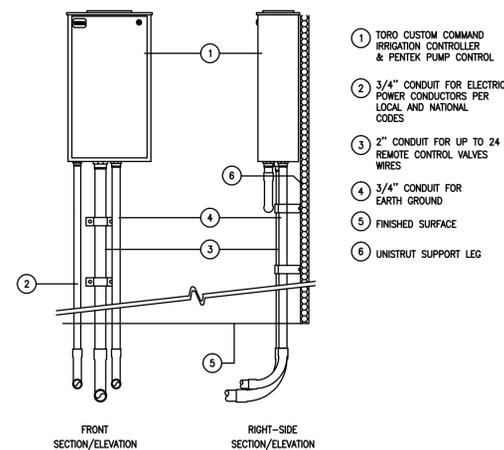
\* NOTE \* - IF THE WATER SUPPLY IS NOT CAPABLE OF THE DESIGNED CAPACITY (FLOW AND/OR PRESSURE), THE IRRIGATION SYSTEM WILL NEED TO BE REDESIGNED, WHICH MAY ALTER THE IRRIGATION MATERIAL ESTIMATE.

NOTE: THE IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE. THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR ADJUSTMENTS IN THE FIELD. THESE MINOR ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER BUT SHALL BE MADE ONLY AFTER NOTIFICATION IS MADE TO THE OWNER OR HIS REPRESENTATIVE.

- THIS DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWINGS SUPPLIED BY THE CLIENT OF RECORD WITH DESIGN CRITERIA BEING SET BY THE CLIENT AND/OR PROJECT OWNER (I.E. AREA TO BE IRRIGATED, MANUFACTURER'S EQUIPMENT TO BE EMPLOYED, WATER SOURCE (LOCATION, FLOW & PRESSURE) CAPACITIES, ELECTRICAL POWER AVAILABILITY FOR IRRIGATION SYSTEM USE, ETC.). SMITH TURF & IRRIGATION BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR APPLICATION WHICH MIGHT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SMITH TURF & IRRIGATION IN RELATION TO THIS SPECIFIC PROJECT UNLESS OTHERWISE NOTED.



BOOSTER PUMP & RPZ BACKFLOW PREVENTER INSTALLATION DETAIL  
NOT TO SCALE



NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

TORO CUSTOM COMMAND/PENTEK PUMP CONTROL INSTALLATION DETAIL  
NOT TO SCALE



**SMITH TURF & IRRIGATION CO.**

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