

IRRIGATION NOTES
SYSTEM DESCRIPTION

THIS IS A NEW CLOSURE START SYSTEM WITH A PROPOSED WATER METER. CONNECTIONS MEET ANY CITY OR COUNTY REQUIREMENTS. COORDINATE FINAL LOCATION OF CONTROLLER AND RAIN SENSOR WITH THE OWNER'S REPRESENTATIVE. LOCATION ADJUSTMENTS SHALL BE AT NO ADDITIONAL CHARGE. ALL REQUIRED TESTING IN THIS SECTION IS FOR THE PROPOSED SYSTEM ONLY.

THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. SUBMIT CERTIFICATION TO THE OWNER'S REPRESENTATIVE PRIOR TO PRE-CONSTRUCTION MEETING.

FOLLOW THESE NOTES IN ADDITION TO **CITY AND COUNTY** REQUIREMENTS AND DESIGN STANDARDS. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS BETWEEN THE PLANS AND CITY REQUIREMENTS.

VERIFY SITE CONDITIONS BEFORE BIDDING. INSTALLATIONS MAY REQUIRE ADDITIONAL EQUIPMENT FOR SPECIFIC SITE CONDITIONS. INCLUDE ALL COSTS TO COMPLETE THE SCOPE OF WORK IN BID.

INCLUDE ALL REQUIRED PERMIT AND IMPACT FEES IN BID. OBTAIN ALL REQUIRED PERMITS AT NO ADDITIONAL CHARGE.

IMMEDIATELY REPAIR AND/OR REPLACE ANY ITEM DAMAGED BY CONSTRUCTION OF THE IRRIGATION SYSTEM AT NO CHARGE.

GUARANTEE MATERIALS AND WORKMANSHIP FOR ONE-YEAR FROM FINAL ACCEPTANCE. CORRECT DEFICIENCIES AT NO CHARGE.

INSTALLATIONS

PROVIDE MANUFACTURER CUT SHEETS FOR EVERY ITEM TO BE INSTALLED FOR APPROVAL.

PROVIDE ONLY NEW EQUIPMENT AND AS SPECIFIED WITHIN THE PLANS.

ELECTRICAL SERVICE CONNECTIONS AND REQUIREMENTS INDICATED WITHIN THE PLANS ARE PRIOR TO ELECTRICAL PROVIDERS DESIGN. COORDINATE FINAL ELECTRICAL DESIGN REQUIREMENTS WITH THE ELECTRICAL PROVIDER PRIOR TO BID. PROVIDE ANY ADDITIONAL REQUIRED EQUIPMENT AT NO ADDITIONAL COST.

ELECTRICAL SERVICE CONNECTIONS AND ALL OTHER ELECTRICAL WORK IS TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. COORDINATE ELECTRICAL SERVICE CONNECTION WITH THE ELECTRICAL PROVIDER. PERFORM ELECTRICAL SERVICE CONNECTIONS BY A LICENSED ELECTRICIAN.

CONTROLLER GROUNDING: 10 OHMS RESISTANCE MAXIMUM. PROVIDE CERTIFICATION FROM THE ELECTRICIAN SHOWING THE DATE OF TEST, CONTROLLER LOCATION/IDENTIFICATION AND TEST RESULTS.

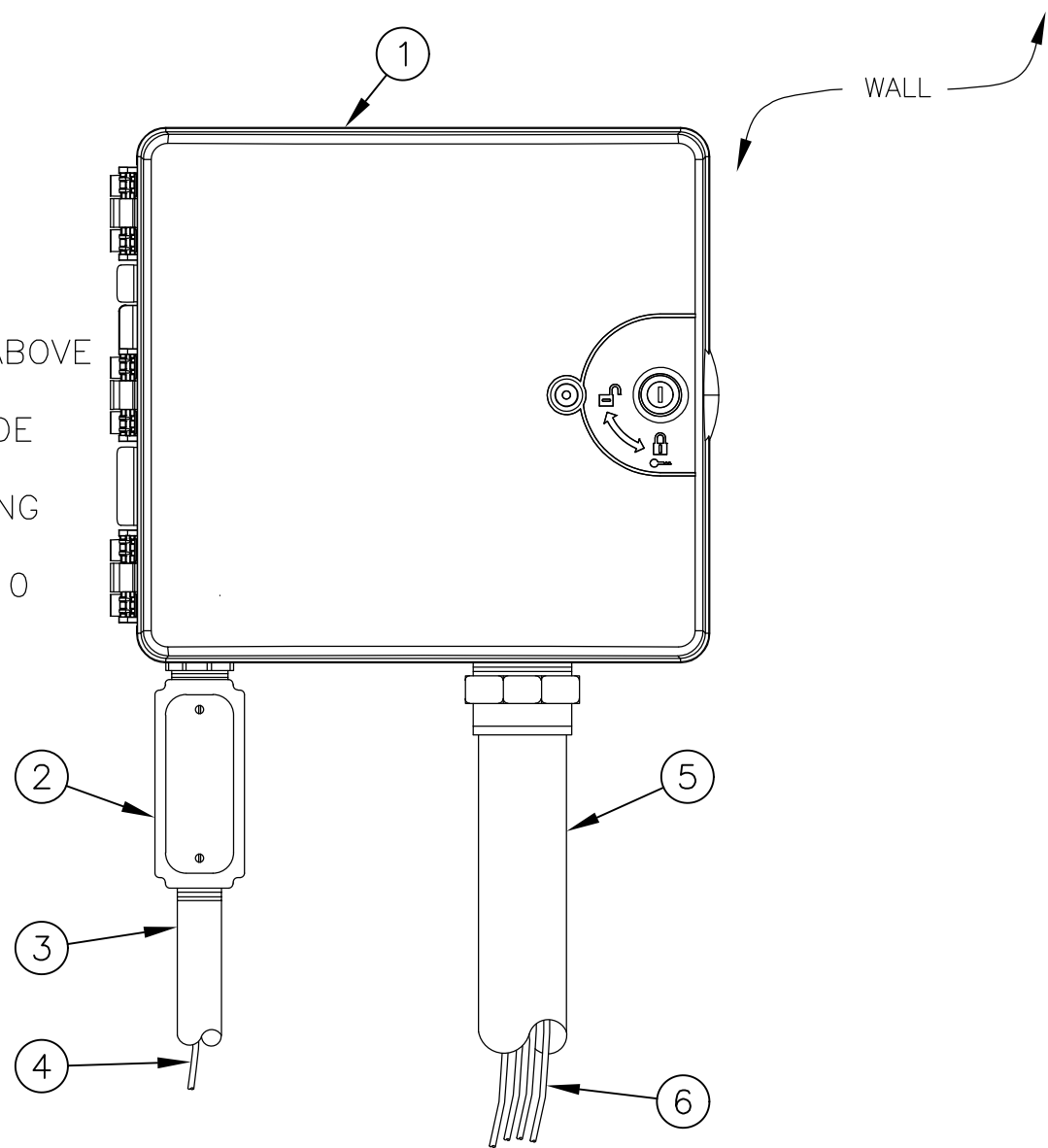
PLAN ADJUSTMENTS:
PLAN LAYOUT IS SCHEMATIC FOR GRAPHIC CLARITY. INSTALL IN PERVIOUS AREAS, EXCEPT WHERE SLEEVING IS SHOWN.

AS-BUILT PLANS:
PREPARE AS-BUILT PLANS AS THE WORK PROGRESSES, INDICATING THE ACTUAL LOCATION OF EQUIPMENT. KEEP THE AS-BUILT PLAN SET ON SITE DURING CONSTRUCTION. SUBMIT FINAL AS-BUILT TO THE OWNER'S REPRESENTATIVE.

TRENCHING AND PIPE INSTALLATION:

NOTES:

1. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.



- 1 IRRIGATION CONTROLLER:
RAIN BIRD CONTROLLER IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 2 JUNCTION BOX
- 3 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
- 4 POWER SUPPLY WIRE
- 5 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
- 6 WIRES TO REMOTE CONTROL VALVES

CONTROLLER MOUNTING

INSTALL PIPE ON A STABLE FOUNDATION. IF NECESSARY, REMOVE UNSTABLE SOIL OR MUCK FROM THE TRENCH BOTTOM AND INSTALL A 6 INCH FOUNDATION OF COMPACTED CLASS 1 BEDDING MATERIAL. REMOVE WATER FROM THE TRENCH BEFORE BACKFILLING. EXCAVATE 6 INCHES BELOW THE PIPE BOTTOM WHEN TRENCHING THROUGH ROCK AND INSTALL CLASS 1 BEDDING MATERIAL. BACKFILL TRENCHES AND COMPACT TO FINISHED GRADE WITH EXISTING SOILS FREE OF DEBRIS, ROOTS, ROCKS OR OBJECTS THAT COULD DAMAGE THE PIPE. TUNNEL UNDER TREE ROOTS.

MAKE PVC SOLVENT WELD CONNECTIONS IN ACCORDANCE WITH ASTM D2855. APPLY PURPLE COLORED PVC PRIMER IN ACCORDANCE WITH ASTM F656. APPLY PVC CEMENT IN ACCORDANCE WITH ASTM D2564.

FLUSHING:
PRIOR TO INSTALLATION OF THE VALVES, FLUSH MAINLINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE CLEAR OF DEBRIS; WHICHEVER IS LONGER.
PRIOR TO INSTALLATION OF THE HEADS, FLUSH LATERAL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE CLEAR OF DEBRIS; WHICHEVER IS LONGER.

MAINLINE LEAK TEST:

- PERFORM MAINLINE LEAK TEST AT 100 PSI FOR 2 HOURS.
- PROVIDE AND OPERATE TEST EQUIPMENT.
- BEFORE TESTING, THE MAINLINE MUST BE COMPLETE. NO CUTTING OR MODIFICATIONS ALLOWED AFTER SUCCESSFUL COMPLETION OF THE LEAK TEST.
- BEFORE TESTING, ISOLATE THE MAINLINE. FILL WITH WATER, AND PRESSURIZE TO THE TEST PRESSURE FOR 24 HOURS TO REMOVE AIR FROM THE MAINLINE AND CORRECT LEAKS.

DETERMINE THE MAXIMUM ALLOWABLE LEAKAGE FOR GASKETTED PVC BY THE FOLLOWING FORMULA:

$L = (ND \cdot P) / 7400$
L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR. THE MAXIMUM QUANTITY OF WATER ALLOWED TO BE PUMPED INTO THE MAINLINE TO MAINTAIN THE TEST PRESSURE.
N = NUMBER OF JOINTS.
D = NOMINAL PIPE DIAMETER IN INCHES.
P = SQUARE ROOT OF THE TEST PRESSURE IN PSI.

THERE IS NO ALLOWABLE LEAKAGE IN SOLVENT WELDED PVC MAINLINE.

IF LEAKAGE EXCEEDS THIS LIMIT, CORRECT THE PROBLEM AND REPEAT LEAK TEST UNTIL SUCCESSFUL COMPLETION.

SUBMIT LEAK TEST RESULTS TO OWNER'S REPRESENTATIVE.

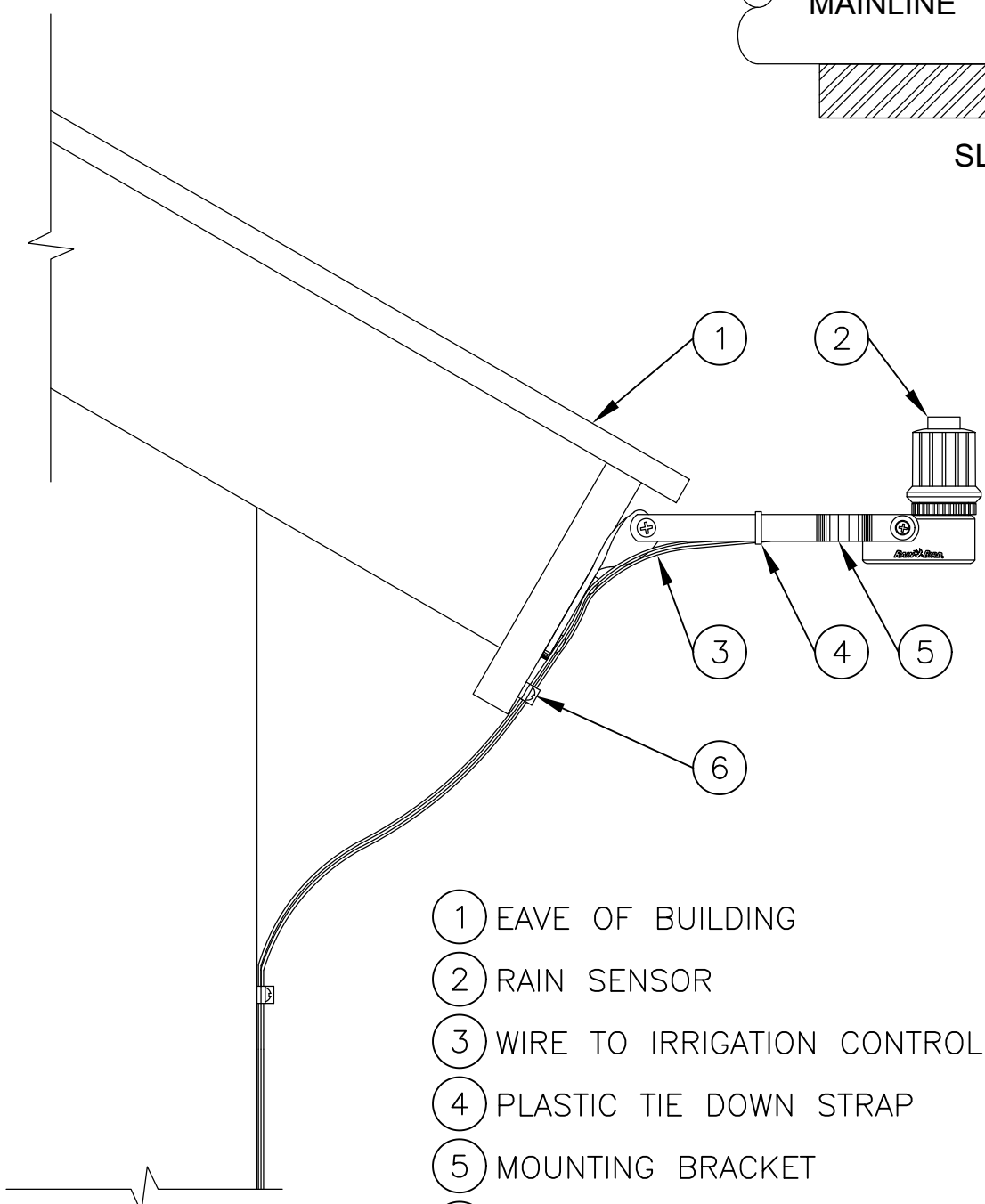
IRRIGATION HEAD PRESSURE TEST:

PERFORM PRESSURE TEST ON EACH ZONE AT THE FIRST AND LAST IRRIGATION HEADS. THE MAXIMUM ALLOWABLE PRESSURE DEVIATION IS 10 PERCENT.

FINAL ACCEPTANCE

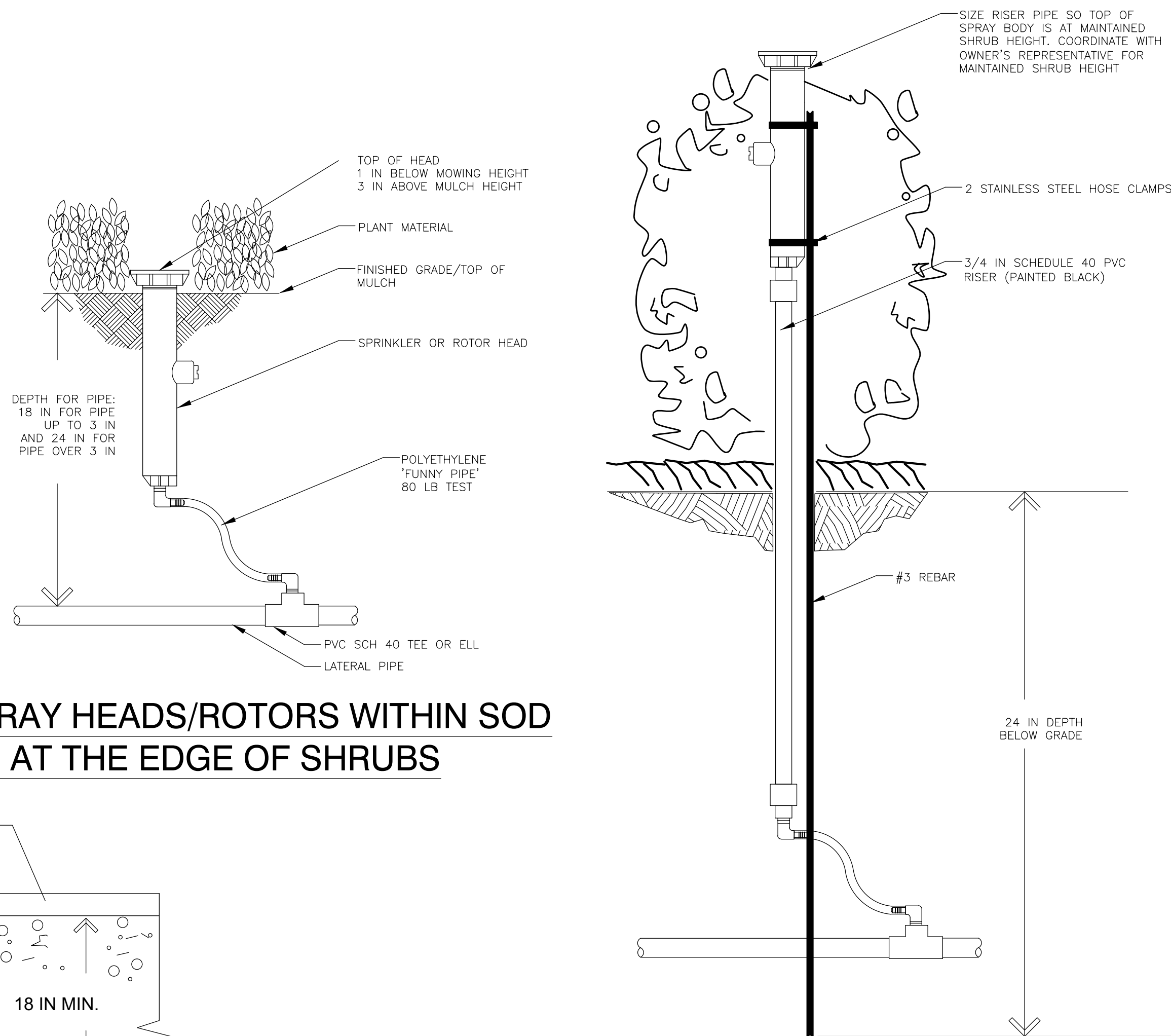
FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN ONLY AFTER THE FOLLOWING HAS BEEN COMPLETED AND APPROVED:

1. SUBMITTAL AND ACCEPTANCE OF THE GROUNDING TEST RESULTS.
2. SUBMITTAL AND ACCEPTANCE OF THE MAINLINE TEST.
3. COMPLETION AND ACCEPTANCE OF THE 'AS-BUILT' DRAWINGS.
4. FINAL WALK THROUGH WITH THE OWNER'S REPRESENTATIVE AND CREATION OF FINAL PUNCH LIST.
5. FINAL PUNCH LIST ITEMS HAVE BEEN CORRECTED AND ACCEPTED.

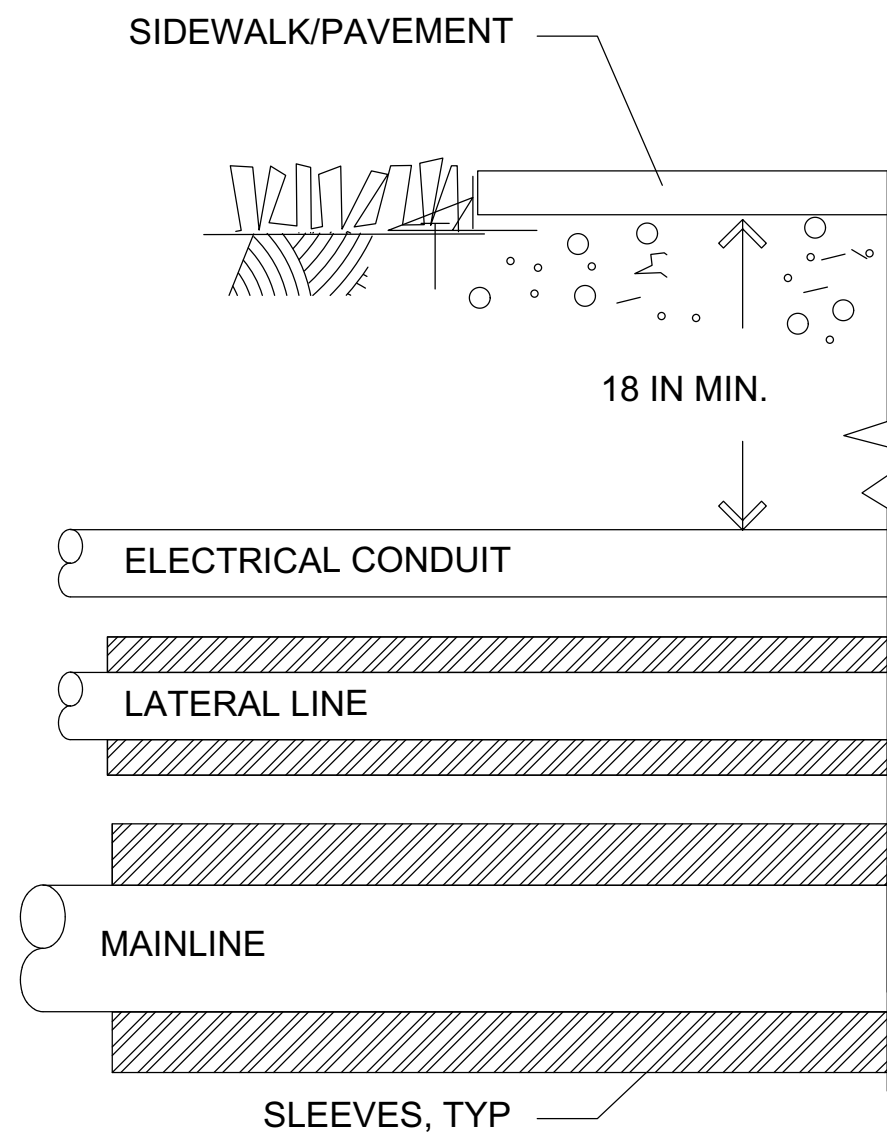


- 1 EAVE OF BUILDING
- 2 RAIN SENSOR
- 3 WIRE TO IRRIGATION CONTROLLER
- 4 PLASTIC TIE DOWN STRAP
- 5 MOUNTING BRACKET
- 6 SECURE WIRE WITH CABLE TIE BRACKET (1 OF 2)

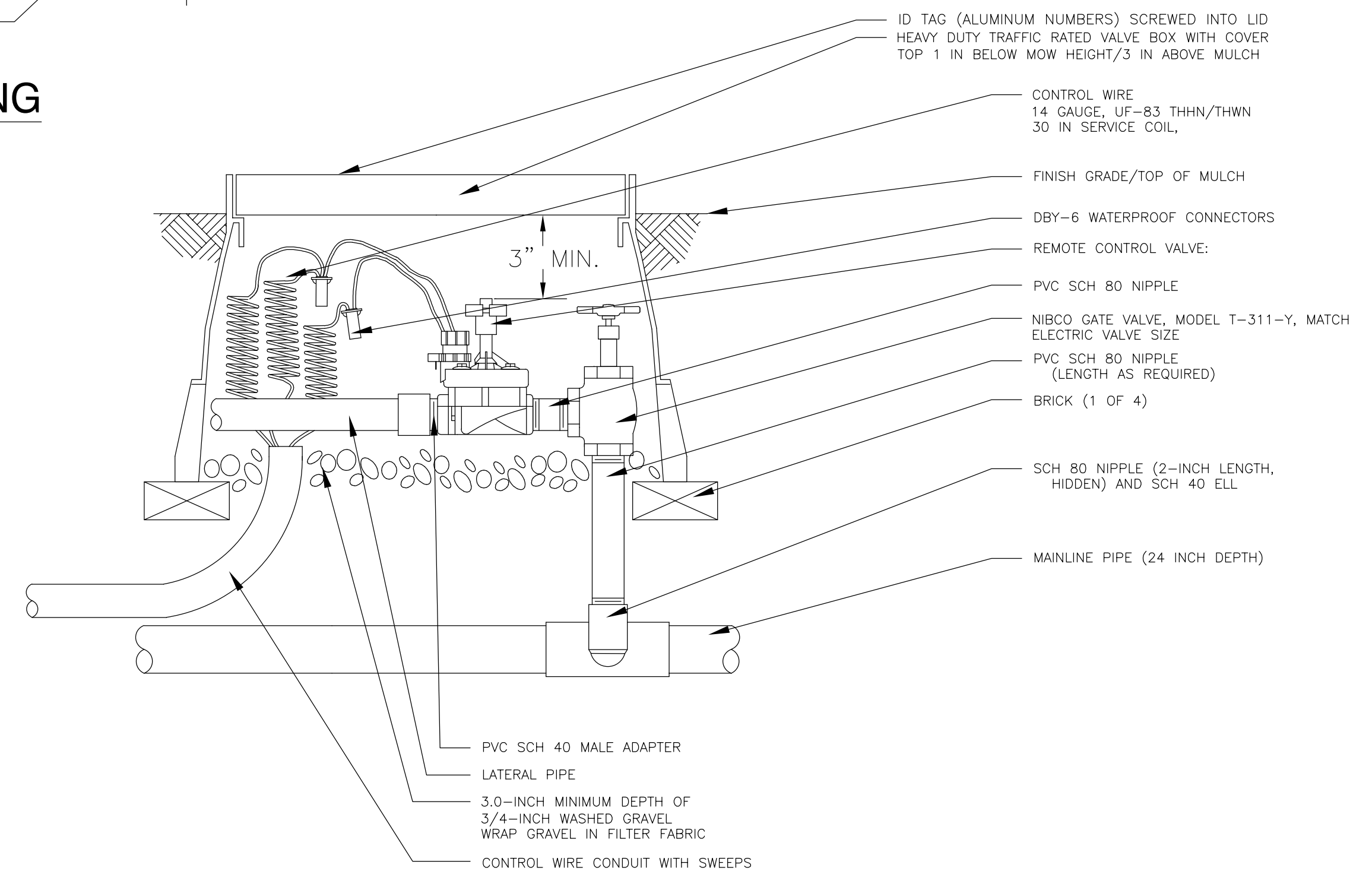
RAIN SENSOR ASSEMBLY



SPRAY HEADS/ROTORS WITHIN SOD
OR AT THE EDGE OF SHRUBS



SLEEVING



SPRAY HEADS/ROTORS WITHIN SHRUBS

VALVE ASSEMBLY

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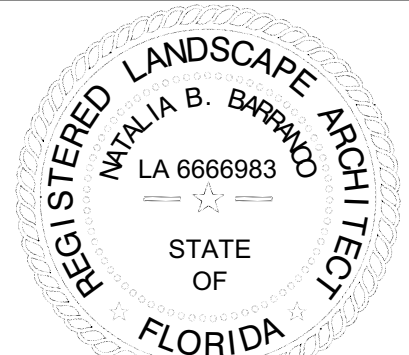
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IRRIGATION NOTES/DETAILS

DRC SET

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