

<p>IRRIGATION CONTROLLER No. 400</p> <p>1 PROVIDE FULL CLEARANCE FOR DOOR OPENING. 2 IRRIGATION CONTROLLER. SEE IRRIGATION LEGEND ON L1 FOR CONTROLLER SPECIFICATION. 3 CONTROL WIRE IN ELECTRICAL CONDUIT. USE AND TYPE PER TECO AND LOCAL CODE. 4 ELECTRICAL SUPPLY CONDUIT. CONNECT TO POWER SOURCE. J BOX INSIDE CONTROLLER.</p> <p>NOTES: 1 PROVIDE RAIN/FREEZE SENSOR AND AFFIN SENSOR TO INSIDE OF PARAPET WALL ABOVE CONTROLLER. SEE IRRIGATION LEGEND ON L2-1 FOR MORE DETAILED SPECIFICATION. COORDINATE CONDUIT FOR WIRING WITH ELECTRICAL CONTRACTOR. CONTROLLER SHALL BE HARD-WIRED TO GROUNDING 110 VAC SOURCE.</p>	<p>ZONE CONTROL VALVE No. 401</p> <p>1 FINISH GRADE/TOP OF MULCH 2 VALVE BOX WITH COVER: RAIN BIRD 48-STD 3 30-INCH LINEAR LENGTH OF WIRE, COILED 4 WATERPROOF CONNECTION: RAIN BIRD 98 SERIES 5 1-INCH BALL VALVE (INCLUDED IN XC2-PRB-100-COM KIT) 6 ID TAG 7 REMOTE CONTROL VALVE. SEE LEGEND ON L2-1 8 PRESSURE REGULATING QUICK CHECK BASKET (INCLUDED IN KIT)</p> <p>9 PVC SCH 40 FEMALE ADAPTOR 10 LATERAL PIPE 11 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED) 12 PVC SCH 40 ELL 13 PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) 14 PVC SCH 40 TEE OR ELL 15 MAINLINE PIPE 16 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL 17 PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN KIT)</p>	<p>CONTROL WIRE SPLICE No. 402</p> <p>1 FINISH GRADE 2 PVC DRIP MANIFOLD PIPE 3 PVC 1" X 3/4" TRUE UNION BALL VALVE 4 EASY FIT MALE X BARB ADAPTER: RAIN BIRD XF-MA-075 5 SUB-SURFACE DRIFLINE: RAIN BIRD XF SERIES BLANK TUBING 6 12-INCH VALVE BOX WITH COVER: RAIN BIRD VB-STD 7 3-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL 8 BRICK (1 OF 2)</p>	<p>IRRIGATION TRENCH No. 403</p> <p>1 SLEEVE ALL PIPE AND WIRES UNDER WALKS, DRIVEWAYS, STRUCTURES, WALLS, ETC. 2 EXTEND SLEEVE INTO LANDSCAPE AREA 12" MINIMUM. 3 ALL BACKFILL MATERIAL SHALL BE FREE OF RUBBISH, AND STONES LARGER THAN 3/4" IN MAXIMUM DIMENSIONS. 4 TAPE AND BARCLE WRAP OR TUBING AT 10 FT. INTERVALS. 5 ALL PLASTIC PIPES TO BE SNAKED IN TRENCHES. 6 ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.</p>	<p>THRUST BLOCK No. 404</p> <p>1. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.</p>	<p>QUICK COUPLER No. 405</p> <p>ON-SURFACE INSTALLATION: 1 MULCH 2 FINISH GRADE 3 OPERATION INDICATOR: RAIN BIRD MODEL: OPERIND 4 ON-SURFACE DRIFLINE: RAIN BIRD XF SERIES DRIFLINE POTABLE: XFD SERIES NON-POTABLE: XFDP SERIES</p> <p>SUB-SURFACE INSTALLATION: 1 FINISH GRADE/TURF 2 OPERATION INDICATOR: RAIN BIRD MODEL: OPERIND 3 SUB-SURFACE DRIFLINE: RAIN BIRD XF SERIES DRIFLINE POTABLE: XFD SERIES NON-POTABLE: XFDP DRIFLINE</p> <p>NOTE: 1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIFLINE TUBING. 2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO 3. PATTERN, THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.</p>																																																																																									
<p>POP UP SPRAY SPRINKLER No. 407</p> <p>1 RAINBIRD DRIFLINE 2 INLINE DRIP EMITTER OUTLET. SEE PLANS FOR DRIFLINE OUTLET SPACING. 3 BARB TEE 17x17x17mm RAIN BIRD XTF-TEE 4 BARB COUPLING 17x17mm RAIN BIRD XTF-COUP 5 BARB ELBOW 17x17mm RAIN BIRD XTF-ELBOW 6 BARB MALE ADAPTER 17mm X 1/2" MPT RAIN BIRD XTF-MA-050 17mm X 3/4" MPT RAIN BIRD XTF-MA-075</p> <p>7 PVC TEE 5x5x7 8 PVC LATERAL SUPPLY HEADER 9 THE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL) 10 FINISH GRADE OR MULCH 11 RAIN BIRD XF SERIES BLANK TUBING LENGTH AS REQUIRED 12 WEED BARRIER FABRIC</p> <p>NOTES: 1. PLACE THE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY. 2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE THE DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION. 3. SAVE YOUR HANDS. USE THE RAIN BIRD FITTING-TOOL XF INSERTION TOOL FOR FITTING ASSEMBLY.</p>	<p>DRIP ZONE CONTROL VALVE KIT No. 409A</p> <p>1 PVC DRIP MANIFOLD PIPE 2 PVC SCH 40 TEE OR ELL 3 RAIN BIRD XF SERIES BLANK TUBING (LENGTH AS REQUIRED) 4 BARB CROSS INSERT FITTING: RAIN BIRD XFD-CROSS 5 BARB TEE INSERT FITTING: RAIN BIRD XTF-TEE 6 PROJECTED CANOPY LINE OF TREE 7 RAIN BIRD DRIFLINE PLACE AS SHOWN (LENGTH AS REQUIRED) 8 ROOT BALL 9 THE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (QUANTITY AS REQUIRED, SEE NOTES 2-3 BELOW)</p> <p>NOTES: 1. DISTANCE BETWEEN LATERAL RINGS AND EMITTER SPACING TO BE BASED ON SOIL TYPE AND TREE CANOPY. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING. 2. LENGTH OF LONGEST DRIFLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE. 3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA. 4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.</p>	<p>MANUAL FLUSH VALVE No. 411A</p> <p>1 PVC EXHAUST HEADER 2 PVC SCH 40 TEE OR EL (TYPICAL) 3 FLUSH POINT (TYPICAL) (SEE DETAIL THIS SHEET) 4 BARB X MALE FITTING: RAIN BIRD XTF-MA FITTING (TYPICAL) 5 PERIMETER OF AREA 6 BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XTF-TEE OR RAIN BIRD XFD-CROSS (TYPICAL) 7 PERIMETER DRIFLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA 8 RAINBIRD SUB-SURFACE OR ON-SURFACE DRIFLINE 9 RAIN BIRD XF SERIES BLANK TUBING 10 2" AIR RELIEF VALVE: RAIN BIRD MODEL: AIRV050 (SEE DETAIL THIS SHEET) 11 PVC SUPPLY MANIFOLD 12 PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND) 13 TOTAL LENGTH OF SELECTED DRIFLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE 14 PVC SCH 40 RISER PIPE 15 WEED BARRIER FABRIC</p> <table border="1"> <caption>Drifline Maximum Lateral Lengths (Feet)</caption> <thead> <tr> <th rowspan="2">Inlet Pressure (psi)</th> <th colspan="3">12" Spacing</th> <th colspan="3">18" Spacing</th> <th colspan="3">24" Spacing</th> </tr> <tr> <th>Nominal Flow (gph)</th> <th>Nominal Flow (gph)</th> <th>Nominal Flow (gph)</th> <th>Nominal Flow (gph)</th> <th>Nominal Flow (gph)</th> <th>Nominal Flow (gph)</th> <th>Nominal Flow (gph)</th> <th>Nominal Flow (gph)</th> <th>Nominal Flow (gph)</th> </tr> </thead> <tbody> <tr> <td>8.5</td> <td>11</td> <td>13</td> <td>15</td> <td>13</td> <td>15</td> <td>17</td> <td>15</td> <td>17</td> <td>19</td> </tr> <tr> <td>15</td> <td>273</td> <td>155</td> <td>314</td> <td>250</td> <td>424</td> <td>322</td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>318</td> <td>169</td> <td>353</td> <td>294</td> <td>506</td> <td>365</td> <td></td> <td></td> <td></td> </tr> <tr> <td>30</td> <td>367</td> <td>220</td> <td>413</td> <td>350</td> <td>588</td> <td>414</td> <td></td> <td></td> <td></td> </tr> <tr> <td>40</td> <td>395</td> <td>255</td> <td>465</td> <td>402</td> <td>652</td> <td>474</td> <td></td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>417</td> <td>285</td> <td>528</td> <td>420</td> <td>720</td> <td>488</td> <td></td> <td></td> <td></td> </tr> <tr> <td>60</td> <td>462</td> <td>293</td> <td>598</td> <td>455</td> <td>792</td> <td>514</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Inlet Pressure (psi)	12" Spacing			18" Spacing			24" Spacing			Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	8.5	11	13	15	13	15	17	15	17	19	15	273	155	314	250	424	322				20	318	169	353	294	506	365				30	367	220	413	350	588	414				40	395	255	465	402	652	474				50	417	285	528	420	720	488				60	462	293	598	455	792	514				<p>AIR RELIEF VALVE No. 412</p> <p>1. THESE DETAILS ARE PROVIDED AS A COURTESY AND CONTRACTOR SHOULD ALWAYS REFERENCE MANUFACTURER DETAILS FOR INSTALLATION INSTRUCTIONS.</p>	<p>PRESSURE VACUUM BREAKER No. 413</p> <p>1. THESE DETAILS ARE PROVIDED AS A COURTESY AND CONTRACTOR SHOULD ALWAYS REFERENCE MANUFACTURER DETAILS FOR INSTALLATION INSTRUCTIONS.</p>	<p>DRIP OPERATION INDICATOR No. 414</p> <p>1. THESE DETAILS ARE PROVIDED AS A COURTESY AND CONTRACTOR SHOULD ALWAYS REFERENCE MANUFACTURER DETAILS FOR INSTALLATION INSTRUCTIONS.</p>
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