

IRRIGATION COMPONENTS			
SYMBOL	ITEM	DESCRIPTION	DETAIL(S)
	POINT OF CONNECTION	MAKE POINT OF CONNECTION AT EXISTING IRRIGATION MAINLINE AT AS SHOWN ON PLANS. VERIFY LOCATIONS IN FIELD.	-
	POINT OF CONNECTION	MAKE POINT OF CONNECTION DOWNSTREAM OF METER AND BACKFLOW PREVENTER. SEE CIVIL ENGINEERING PLANS.	-
	BACKFLOW PREVENTER	SEE CIVIL PLANS FOR LOCATION. APPROXIMATE LOCATION SHOWN ON IRRIGATION PLANS. COORDINATE EXACT LOCATION WITH OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO CONSTRUCTION.	-
EXISTING, NOT SHOWN	IRRIGATION CONTROLLER	ALL "B" VALVES ARE TO TIE INTO THE EXISTING CONTROLLER AT FIRST STREET. SPARE WIRES TO THE EXISTING VALVES SHOULD BE AVAILABLE IN VALVE BOX AT IRRIGATION POINT OF CONNECTIONS. FIELD VERIFY.	A, SHEET IR5
	IRRIGATION CONTROLLER	RAINBIRD ESP-12SITE-SAT SITE SATELLITE CONTROLLER WITH M5-1 SURGE PROTECTOR. PEDESTAL MOUNT IN ENCLOSURE PED-DD16. CONTRACTOR TO COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE. PROVIDE AND CONNECT TO DEDICATED TELEPHONE SERVICE AND 120V POWER.	A, SHEET IR5
	DRIP VALVE ASSEMBLY	DRIP VALVE ASSEMBLY. RAINBIRD 100-PEB VALVE , RAINBIRD FILTER OKCHK-100, RAINBIRD PRESSURE REGULATOR RAINBIRD PSI-M40X-100.	F,G, SHEET IR5
	GATE VALVE	SIZE PER LINE. BRASS GATE VALVE WITH CROSS OR BUTTERFLY OPERATING HANDLE.	E, SHEET IR5
	QUICK COUPLER	RAINBIRD 44LRC WITH LOCKING RUBBER COVER WITH SH-1 HOSE SWIVEL AND 1" CHAMPION MANUAL ANGLE VALVE TO ISOLATE FROM MAINLINE. PROVIDE FOUR 44K KEYS.	D, SHEET IR5
	FLUSH VALVE	AUTOMATIC END FLUSH VALVE. TORO LOC-EZE T-FCH-H FIPT OR APPROVED EQUAL. INSTALL AT THE END OF ALL DRIP LINE HEADERS.	I, SHEET IR5
	MAINLINE	SCHEDULE 40 PVC. SIZE PER PLAN.	C, SHEET IR5
	DRIP LINE	DRIP LINE HEADER. SCHEDULE 40 PVC, 3/4" DIAMETER WITH 1/2" IPS EXCALIBUR TUBING TO EMITTER.	C,J, SHEET IR5
	SLEEVE	SCHEDULE 40 PVC. SIZE PER PLAN.	B, SHEET IR5
WC	WIRE CHASE	SCHEDULE 40 PVC. SIZE PER PLAN.	C, SHEET IR5
NOT SHOWN	CONTROL WIRES	FROM VALVES TO SATELLITE CONTROLLERS: UF DIRECT BURIAL, SOLID COPPER, 12 GAUGE COMMON, 14 GAUGE PILOT. ROUTE WITH MAINLINE. SEE NOTE #9.	A,C,F, SHEET IR5
	VALVE IDENTIFICATION TAG	VALVE STATION, VALVE SIZE, MAXIMUM GPM PER VALVE AND PLANT/IRRIGATION TYPE.	-
	STUB AND CAP LOCATION	STUB AND CAP MAINLINE IN APPROXIMATE LOCATION SHOWN FOR POTENTIAL FUTURE CONNECTIONS. PROVIDE MINIMUM 10" CONCRETE LOCKING VALVE BOX AT LOCATION FOR FUTURE ACCESS. SEE PLANS FOR UNUSED WIRE AT THESE LOCATIONS FOR FUTURE IRRIGATION CONNECTIONS.	-
	EXISTING MAINLINE	EXISTING MAINLINE AT FIRST STREET.	-

SYM.	MANUFACTURER/MODEL	PAT.	RD	PSI	GPM						DRIP G+H	DETAIL(S)
					Q	T	H	TT	TQ	F		
NOT SHOWN	BOWSMITH THREADED EMITTERS WITH BLACK SCHEDULE 40 MALE ADAPTERS. SL200, 2 GPH FOR TREES	-	-	30	-	-	-	-	-	-	2.0	H.J. SHEET IRS

1. SEE SHEET IR5 FOR IRRIGATION DETAILS.
2. CONTRACTOR TO TIE NEW IRRIGATION MAINLINE INTO EXISTING IRRIGATION MAINLINES AS SHOWN, DOWNSTREAM FROM EXISTING WATER METERS(S) AND BACKFLOW PREVENTER(S). AT NEW METERS, CONNECT DOWNSTREAM OF NEW METER AND BACKFLOW PREVENTER TO EXISTING MAINLINE. SET STAKES TO IDENTIFY PROPOSED MAINLINE LOCATIONS. PIPING LAYOUT INDICATED IS DIAGNOSTIC ONLY. ROUTE PIPING TO AVOID UTILITIES, STRUCTURES, PLANTS AND OTHER OBSTRUCTIONS. OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL BEFORE EXCAVATION. REVIEW LAYOUT REQUIREMENTS WITH OTHER AFFECTED WORK.
3. CONTRACTOR TO TIE INTO EXISTING CONTROLLER AT FIRST STREET FOR VALVES IDENTIFIED AS 'B' USING EXISTING WIRE AS NEEDED ON EXISTING SCHEDULE LAYOUT PLANS. CONTRACTOR TO VERIFY THAT THE EXISTING CONTROLLER(S) IS FUNCTIONING PROPERLY AND THAT IT HAS THE REQUIRED NUMBER OF OPEN STATIONS PRIOR TO INSTALLATION. FIELD LOCATE AND VERIFY THE STUBBED WIRE LOCATIONS. REFERENCE THE FOLLOWING IRRIGATION PLANS: 'DOWNTOWN PEDESTRIAN & BICYCLE IMPROVEMENTS 1ST STREET - HOOVER TO GARCES BONNEVILLE TO BRIDGER'.
4. MAINTAIN TRENCHES FREE OF DEBRIS, MATERIAL, OR OBSTRUCTIONS THAT MAY DAMAGE PIPE. FOLLOW ALL LOCAL CODES. PROVIDE A MINIMUM OF 12" BETWEEN IRRIGATION PIPE AND ELECTRICAL LINES.
5. BACKFILLING. PROVIDE TWO INCHES OF SAND COVER AROUND PIPING. BACKFILL TRENCH AND COMPACT TO SUB-GRADE ELEVATION. COMPACT TRENCHES UNDER PAVING TO 95%. COMPACT TRENCHES IN LANDSCAPE AREAS TO 85%. PROTECT PIPING FROM DISPLACEMENT.
6. CONTRACTOR NOT TO DISTURB ANY EXISTING IRRIGATION. CONTRACTOR TO BRING ANY EXISTING IRRIGATION TO THE ATTENTION OF THE CONSTRUCTION MANAGER. CONTRACTOR TO RETURN ANY EXISTING IRRIGATION (USED TO WATER EXISTING PLANTS TO REMAIN) DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
7. IRRIGATION DRAWINGS ARE DIAGNOSTIC. SOME VALVES AND LINES ARE SHOWN OUTSIDE OF PLANTER OR SIDEWALK AREAS FOR GRAPHIC CLARITY. THE INTENT IS FOR ALL VALVES TO BE LOCATED IN HARDSCAPE, OUTSIDE OF PAVEMENT AREAS WHEN POSSIBLE.
8. THE DRIP IRRIGATION SYSTEM IS DESIGNED TO ACCOMMODATE A MAXIMUM OF 8 GPM PER DRIP VALVE ASSEMBLY.
9. PROVIDE SLEEVES FOR ALL IRRIGATION LINES BENEATH HARDSCAPE. COORDINATE LOCATIONS OF SLEEVES UNDER PAVING TO ACCOMMODATE SYSTEM.
10. WIRING: UL 493, SOLID COPPER CONDUCTOR, INSULATED CABLE, SUITABLE FOR DIRECT BURIAL.
 1. FEEDER CIRCUIT CABLES: TYPE UF, NO. 12 AWG MINIMUM.
 2. LOW VOLTAGE AND BRANCH CIRCUITS: TYPE UF, NO. 12 AWG MINIMUM, COMMON WIRE, WHITE COLOR AND NO. 14 AWG MINIMUM PILOT WIRE, COLOR OTHER THAN WHITE.
 3. SPLICING MATERIALS: WATER TIGHT FITTINGS AS RECOMMENDED BY WIRE MANUFACTURER.
 4. EXTRA WIRE: PULL ONE EXTRA WIRE FROM EACH CONTROLLER INTO ALL SEPARATE VALVE GROUPINGS CONTROLLED BY THAT CONTROLLER TO ACCOMMODATE POTENTIAL CHANGES OR IF THE WIRE FAILS. EXTRA WIRE TO BE A DIFFERENT COLOR THAN ALL THE OTHER WIRES.
 5. STUB UNUSED WIRE WITH WATER TIGHT FITTINGS IN 10" CONCRETE LOCKING VALVE BOX PER PLANS FOR POTENTIAL FUTURE IRRIGATION. RUN WIRE FROM ALL STATIONS IN THE CONTROLLER TO EITHER A VALVE OR THE STUB LOCATION. RUN COMMON WIRE TO ALL STUB LOCATIONS.
11. BRING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE'S ATTENTION IMMEDIATELY.



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