IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	REMARKS
M	NEW 1" POTABLE WATER METER		
A	AUTOMATIC CONTROLLER	6 STA. HUNTER I-CORE IC-600-SS WITH SOIL-CLIK (SOIL-CLIK MOISTURE SENSOR MODULE AND PROBE) AND RAIN-CLIK (WIRED RAIN-CLIK SENSOR)	INSTALL IN HUNTER STAINLESS STEEL PEDESTAL
BF	BACKFLOW PREVENTION ASSEMBLY	1" FEBCO 825Y	INSTALL AS DETAILED, WITH GUARDSHACK ENCLOSURE (TAN)
	QUICK COUPLER	RAINBIRD 33DRC, OR EQUAL	INSTALL AS DETAILED
	PVC BALL VALVE	NIBCO, OR EQUAL	LINE SIZE, INSTALL AS DETAILED
	DRIP REMOTE CONTROL VALVE ASSEMBLY	RAINBIRD CONTROL ZONE KIT XCZ-100-PRB-COM	INSTALL AS DETAILED
	PVC MAINLINE PIPE		PVC SCH 40, SIZE PER PLAN
	PVC SLEEVE		PVC SCH 40; TWO TIMES DIA. OF PIPE OR WIRE BUNDLE UNLESS SIZE IS NOTED OTHERWISE ON PLAN.
	POLYETHYLENE LATERAL		3/4" UNLESS OTHERWISE NOTED ON PLAN. EXTEND FROM REMOTE CONTROL VALVES TO WITHIN 10' OF EACH TREE AND SHRUB.
NOT SHOWN	SINGLE OUTLET EMITTER	RAINBIRD XB-10, OR EQUAL	
NOT SHOWN	MULTI-OUTLET EMITTER	RAINBIRD XB-10-6, OR EQUAL	
	FLUSH CAP	JAIN IRRIGATION MODEL CEFCHL	INSTALL IN 6" ROUND VALVE BOX

IRRIGATION NOTES:

A. ANY CHANGES MADE TO THE PLANS AND DETAILS SHOWN ON THESE DOCUMENTS WHICH ARE NOT APPROVED BY THE LANDSCAPE ARCHITECT RELEASES RICK ENGINEERING OF ANY LIABILITY INCURRED AS A RESULT OF SAID CHANGES.

B. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO FOLLOW AS CLOSELY AS PRACTICAL. INSTALL PIPING AND EQUIPMENT IN PLANTER AREAS WHENEVER POSSIBLE WITH A MINIMUM OF 10' FEET CLEAR FROM TREE ROOT BALLS WHEN POSSIBLE. EQUIPMENT SHOWN ON PAVED AREAS IS FOR DESIGN CLARITY ONLY. IRRIGATION EQUIPMENT SHOWN OUTSIDE OF MAINTENANCE RESPONSIBILITY AREAS FOR CLARITY ONLY. ALL MAINTAINED AREA EQUIPMENT SHALL BE INSTALLED WITHIN THE LIMIT OF WORK LINES. DO NOT MAKE CHANGES OR ALTERATIONS TO PLANS WITHOUT PRIOR APPROVAL OF THE OWNERS REPRESENTATIVE. THE QUANTITIES AND CONDITIONS SHOWN ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK.

C. IF ANY UTILITIES CONFLICT WITH THE ORIGINAL PLACEMENT OF INTENDED PLANT MATERIAL ON SITE THE LANDSCAPE ARCHITECT WILL AID THE CONTRACTOR IN THE RELOCATION OR SHIFTING OF PLANT MATERIAL ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE THERETO. ALL UTILITIES SHALL BE LOCATED AND VERIFIED PRIOR TO ANY EXCAVATION. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE IMMEDIATELY. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL CONTACT CALL BEFORE YOU DIG (811) TO VERIFY LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THIS WORK, AND SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THE WORK.

D. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, RULES AND REGULATION OF ALL AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR THIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS.

E. DO NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY FIELD CHANGES.

F. DO NOT INSTALL IRRIGATION MAINLINE THROUGH THE MIDDLE OF PLANTER WHERE POTENTIAL CONFLICTS WITH TREES ARE EXISTING AND/OR PROPOSED. COORDINATE WITH PLANTING PLAN TO AVOID CONFLICTS.

G. VALVE MANIFOLDS, BALL VALVES, RCV'S, QUICK COUPLERS, ETC. SHALL BE LOCATED WITHIN SHRUB PLANTING AREAS. VERIFY ACTUAL LOCATIONS IN THE FIELD WITH OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

H. THE CONTRACTOR SHALL VERIFY AVAILABLE WATER PRESSURE AT POINT OF CONNECTION AND PROVIDE TO OWNER AND OWNERS REPRESENTATIVE WITH TESTING RESULTS IN WRITING PRIOR TO BEGINNING WORK.

I. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT THE POINT OF CONNECTION (P.O.C.). THE IRRIGATION CONTRACTOR SHALL VERIFY THE WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POC TO THE OWNERS REPRESENTATIVE. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND COSTS ASSOCIATED WITH SAID REVISIONS.

J. THE CONTRACTOR SHALL FURNISH AN IRRIGATION SYSTEM THAT PROVIDES COMPLETE COVERAGE TO ALL INTENDED AREAS. CONTRACTOR SHALL MAKE ALL REQUIRED ADJUSTMENTS TO ASSURE ADEQUATE SYSTEM COVERAGE AND DISTRIBUTION EFFICIENCY. CONTRACTOR SHALL ADJUST ALL HEADS, LATERALS AND MAINLINE AS REQUIRED TO ACCOMMODATE ANY HORIZONTAL OBSTRUCTIONS THAT MAY OCCUR INCLUDING BUT NOT LIMITED TO FLATWORK, LIGHT POLES, FIRE HYDRANTS, TRANSFORMERS, ETC. ADD ADDITIONAL SPRINKLER HEADS, BUBBLERS, EMITTERS, ETC. AND ADJUST ALL EXISTING AND PROPOSED EQUIPMENT WITHIN THE PROJECT LIMITS OF WORK FOR OPTIMUM COVERAGE AND MINIMUM OVERSPRAY. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

K. THE CONTRACTOR IS TO HAVE ACTUAL LOCATIONS OF THE AUTOMATIC CONTROLLER(S) APPROVED IN THE FIELD BY THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

L. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE ELECTRICAL SERVICE WITH THE GENERAL CONTRACTOR AND MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER.

M. SHOULD FIELD CONDITIONS REQUIRE PIPE INSTALLATION OTHER THAN THAT SHOWN ON PLANS, THE CONTRACTOR SHALL LIMIT EXCESS FLOW AND SIZE ALL PIPE NOT TO EXCEED A VELOCITY OF 5 FEET PER SECOND (FPS) IN PVC PIPE. FLOW THROUGH ANCILLARY EQUIPMENT OR COPPER PIPE SHALL NOT EXCEED 7.5 FPS. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

N. BACKFILL OVER MAINLINES SHALL OCCUR ONLY AFTER INSPECTION OF MAINLINES. PROVIDE 4" OF ROCK FREE SOIL OR SAND IMMEDIATELY AROUND PIPE.

O. INSTALL ALL IRRIGATION PIPING AND WIRES IN SCH 40 PVC SLEEVE WHEN ROUTED UNDER PAVEMENT OR STRUCTURES AS DETAILED AND PER THE SPECIFICATIONS. WIRES ARE TO BE PLACED IN AN INDEPENDENT SLEEVE, SEPARATE FROM THE IRRIGATION PIPING. ALL SLEEVES TO EXTEND 12" MINIMUM PAST THE EDGE OF PAVEMENT AT THE PROPER DEPTH, SEE IRRIGATION DETAILS. ALL SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE BEING SLEEVED UNLESS OTHERWISE NOTED ON PLANS.

P. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.

Q. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS, COORDINATION AND SEQUENCING DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THESE PLANS AND SPECIFICATIONS.

R. THE CONTRACTOR SHALL VERIFY AND ACCEPT ALL SITE CONDITIONS AND ROUGH GRADES PRIOR TO STARTING ANY WORK. ALL DRAINAGE FLOWS SHALL BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION.

S. CONTRACTOR SHALL INSTALL MANUAL DRAIN VALVE(S) AS DETAILED AT SYSTEM LOW POINT(S) AND FURNISH AND INSTALL FITTINGS AS REQUIRED FOR SYSTEM WINTERIZATION, IF APPLICABLE, PER STANDARD LOCAL PRACTICE.

NO.	BY	DATE	REVISION	APPR	DATE

REGISTERED LANDSCAPE ARCHITECT CERTIFICATE NO. 36734 MARK E. FELLINGER Date Signed 12/23/22 ARIZONA, USA

M. Fellinger

JN 4329

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CHECKED BY: DATE:
APPROVED BY: DATE:
DESIGNED BY: MEF DATE: 9/22
DRAWN BY: MEF DATE: 9/22

DEVELOPMENT PACKAGE
IRRIGATION PLAN

I-10 INTERNATIONAL

4150 EAST LOS REALES ROAD, TUCSON, AZ 85756

A PORTION OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 14 EAST, GILA & SALT RIVER MERIDIAN, CITY OF TUCSON, PIMA COUNTY, ARIZONA.

DP22-0122

L-10

SCALE: HORIZ : 1" = 30'
VERT : N/A

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