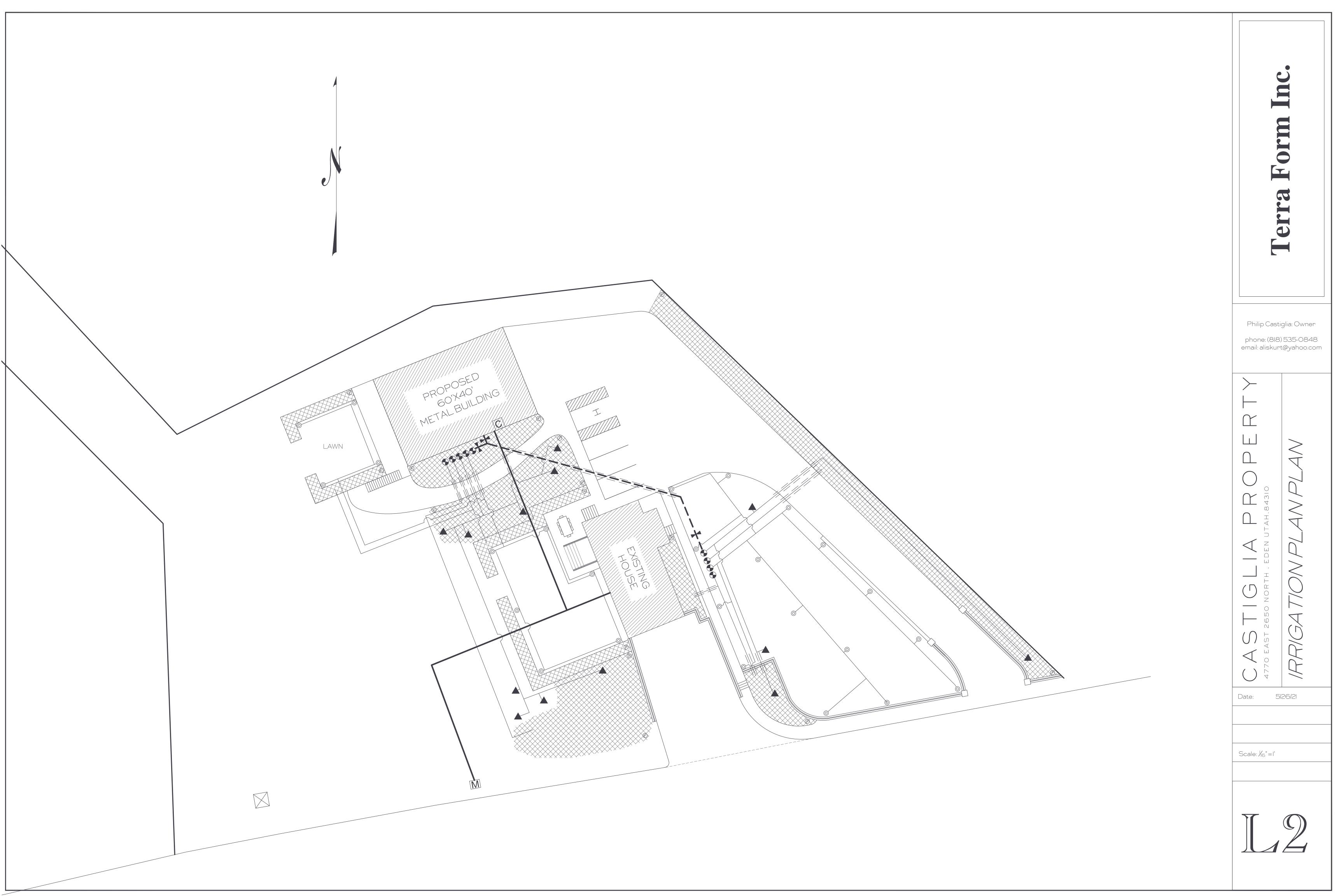


Philip Castiglia: Owner

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5/26/21

Scale: 1/6"=1'



## **IRRIGATION NOTES:**

- GENERAL ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND THESE PLANS. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY SAME.
- 1.A. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE 21. ALL PRESSURE SUPPLY LINES AND CONTROL WIRES TO HAVE 18" MINIMUM COVER. ALL LATERAL LINES TO PRIOR TO COMMENCEMENT OF ANY WORK UNDER THIS CONTRACT.
- 1.B. THE CONTRACTOR SHALL CARRY ALL WORKERS COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE, AS REQUIRED BY THE OWNER AND/OR GOVERNING AGENCY.
- SCOPE OF WORK UNLESS OTHERWISE SPECIFIED, THE CONSTRUCTION OF IRRIGATION SYSTEMS SHALL INCLUDE THE FURNISHING, INSTALLING AND TESTING OF ALL POINTS OF CONNECTION, BACKFLOW DEVICES. AND MAINLINE; AND THE FURNISHING AND INSTALLING OF CONTROLLERS, ELECTRIC CONTROL VALVES, OTHER SPECIFIED VALVES, LATERAL LINES, RISERS AND FITTINGS, SPRINKLER HEADS, AND DRIP LINES; AND EXCAVATION AND BACKFILL AND ALL OTHER WORK IN ACCORDANCE WITH THESE PLANS, DETAILS, AND NOTES. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT PROPERTY, TRANSPORTATION, AND PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE AND OPERABLE IRRIGATION SYSTEM AS INDICATED ON, OR REASONABLY IMPLIED BY THE DRAWINGS, DETAILS, AND NOTES. INCLUDED AS A PART OF THE IRRIGATION WORK, BUT NOT LIMITED BY IT, ARE THE FOLLOWING:
- 2.A. INSTALL COMPLETE OPERABLE INDEPENDENT IRRIGATION SYSTEMS PER THE PLANS, DETAILS, LEGENDS, AND NOTES.
- 2.B. ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP, INCLUDING SETTLING OF BACKFILLED TRENCHES BELOW GRADE FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK.
- CHECK AND VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO ANY SITE WORK. IF IT IS FOUND THAT THE SITE VARIES FROM THE DRAWINGS, NOTIFY THE LANDSCAPE ARCHITECT. THE LANDSCAPE ARCHITECT SHALL DECIDE ALL QUESTIONS RELATING TO THE INTERPRETATION OF THE DRAWINGS AND THE ACCEPTABLE FULFILLMENT OF THE CONTRACT.
- COORDINATE ALL IRRIGATION WORK WITH PLANTING AND GRADING OPERATIONS TO AVOID ANY CONFLICT WITH PLANTING PITS, DRAINAGE SWALES, ETC.
- 5. PIPING SHOWN ON THE PLANS IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL ROUTE PIPING TO AVOID CONFLICT WITH STATIONARY ELEMENTS AND IN SUCH A MANNER AS TO CONFORM WITH THE VARIOUS DETAILS AND DESIGN INTENT OF THESE PLANS. WHERE TREES, LIGHT STANDARDS, OR OTHER PHYSICAL OBSTRUCTIONS EXIST, THE PIPING AND SPRINKLER HEAD LOCATIONS SHALL BE ADJUSTED AND / OR RELOCATED AS NECESSARY TO OBTAIN FULL COVERAGE WITH MINIMAL OVER SPRAY.
- 6. THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER AND/OR GOVERNING AGENCY.
- EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO DIGGING.
- 8. THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS, AND RUBBISH INCIDENTAL TO HIS WORK.
- 9. THE IRRIGATION DESIGN IS BASED ON THE METER AND/OR POINT OF CONNECTION SIZE AND WATER PRESSURE INDICATED ON THE WATER SOURCE / POINT OF CONNECTION NOTE ON THE PLANS. CONTRACTOR SHALL VERIFY THE PRESSURE PRIOR TO CONSTRUCTION. SHOULD A DISCREPANCY EXIST NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING CONSTRUCTION. DO NOT PROCEED WITH ANY IRRIGATION INSTALLATION WORK UNTIL ANY AND ALL WATER SUPPLY AND PRESSURE ISSUES HAVE BEEN RESOLVED.
- 10. CONTRACTOR SHALL MAKE POINT(S) OF CONNECTION (POC) AS NOTED ON THE PLANS. ALL FEES AND LOCAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- 11. IRRIGATION CONTRACTOR SHALL COORDINATE 120V AC POWER TO FINAL CONTROLLER LOCATION WITH GENERAL CONTRACTOR AND/OR ELECTRICAL CONTRACTOR AS NECESSARY. IRRIGATION CONTRACTOR SHALL PAY ALL ASSOCIATED FEES FOR ELECTRICAL SERVICE. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL FINAL CONTROLLER CONNECTIONS PER LOCAL CODES.
- 12. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED TO PERFORM A MAINLINE PRESSURE TEST. THE HYDROSTATIC TEST SHALL HOLD A MINIMUM OF 150 PSI FOR 3 HOURS OR MORE. CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF THE TEST FOR CERTIFICATION.
- 13. CONTRACTOR SHALL THOROUGHLY FLUSH THE ENTIRE MAINLINE PRIOR TO INSTALLING REMOTE CONTROL VALVES. ALL LATERAL LINES SHALL BE COMPLETELY FLUSHED PRIOR TO INSTALLING HEADS AND NOZZLES. FOR DRIP SYSTEMS, ALL PIPING / TUBING DOWNSTREAM OF THE CONTROL VALVE SHALL BE THOROUGHLY FLUSHED PRIOR TO 'CLOSING' SYSTEM (FOR GRID SYSTEMS), OR BEFORE INSTALLING FLUSH VALVES.
- 14. ALL WIRES SHALL BE SOLID COPPER, PLASTIC INSULATED, U.F. DIRECT BURIAL WIRE, ALL COMMON WIRE SHALL BE AWG #12 WHITE; ALL CONTROL WIRES SHALL BE AWG #14 RED OR BLACK. CONTROLLERS SHALL HAVE SEPARATE COLOR CODED COMMON WIRES AND CONTROL WIRES WHEN TWO OR MORE CONTROLLERS ARE ON THE PROJECT.
- 15. ALL CONTROL WIRES AND IRRIGATION PIPING THAT RUNS UNDER HARDSCAPE / PAVING SHALL BE ENCASED IN PVC SLEEVES PER THE LEGEND. SLEEVES SHALL BE SIZED ACCORDING TO THE SLEEVING CHART ON THE PLANS. SLEEVES SHALL BE STRAIGHT RUNS OF PVC PIPE WITH NO FITTINGS INSTALLED UNDER HARDSCAPED AREAS. IF WIDTH OF HARDSCAPE EXCEEDS A FULL LENGTH OF PIPE, USE BELLED END CONNECTION OR COUPLER WITHIN SLEEVE, ENSURING SLEEVE IS LARGE ENOUGH FOR THE ADDED DIAMETER OF THE CONNECTION.
- 16. THE FINAL LOCATION FOR CONTROL VALVES AND QUICK COUPLERS SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT OR THE OWNER'S AUTHORIZED REPRESENTATIVE. ALL VALVES AND QUICK COUPLERS SHALL BE LOCATED IN SHRUB AREAS WHEREVER POSSIBLE.
- 17. THE CONTRACTOR SHALL HEAT BRAND VALVE NUMBERS OR OTHER MARKINGS AS CALLED FOR IN THE IRRIGATION DETAILS ON INSIDE AND OUTSIDE OF ALL VALVE BOX LIDS.
- 18. ALL BRASS OR GALVANIZED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE OR APPROPRIATE PIPE JOINT COMPOUND. ALL PVC TO PVC THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE. NO PIPE DOPE IS ALLOWED AT VALVE OR SPRINKLER HEAD CONNECTIONS. ANY PVC TO METAL CONNECTIONS SHALL BE MADE WITH A MALE THREADED PVC FITTING AND A FEMALE THREADED METAL FITTING.
- 19. ALL PVC SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH SOLVENT-WELD MATERIALS AS RECOMMENDED BY THE PIPE MANUFACTURER. SOLVENT-WELD PRIMER SHALL BE APPLIED AT ALL CONNECTIONS.

- 20. LOW HEAD DRAINAGE WILL NOT BE ALLOWED. CONTRACTOR TO DETERMINE IN THE FIELD WHICH HEADS DRAIN AFTER THE VALVE IS SHUT OFF. CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL IN-LINE CHECK VALVES AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.
- HAVE 12" MINIMUM COVER. FOR RECYCLED WATER SYSTEMS, PIPE DEPTH TO BE DETERMINED BY THE LOCAL GOVERNING AGENCY.
- 22. MAINLINE AND WIRE SLEEVING TO HAVE 24" MINIMUM COVER FROM TOP OF SLEEVE TO BOTTOM OF AGGREGATE BASE. MAINLINE AND WIRE SLEEVING UNDER ALL VEHICULAR ACCESS WAYS TO HAVE 36" MINIMUM COVER FROM TOP OF SLEEVE TO BOTTOM OF AGGREGATE BASE. LATERAL LINE SLEEVING TO HAVE 12" MINIMUM COVER FROM TOP OF SLEEVE TO BOTTOM OF AGGREGATE BASE. LATERAL LINE SLEEVING UNDER ALL VEHICULAR ACCESS WAYS TO HAVE 36" MINIMUM COVER FROM TOP OF SLEEVE TO BOTTOM OF AGGREGATE BASE. CONTRACTOR SHALL INSTALL SLEEVING UNDER ALL HARDSCAPE 36" WIDE OR GREATER. DUE TO GRAPHIC CLARITY, NOT ALL SLEEVES MAY BE SHOWN ON THE PLANS. CONTRACTOR SHALL INSTALL ALL SLEEVING PRIOR TO HARDSCAPE AND PAVING INSTALLATION.
- 23. THE RADIUS OF EACH HEAD IS TO BE ADJUSTED SO THAT HEAD-TO-HEAD COVERAGE IS MAINTAINED, BUT OVER SPRAY ON BUILDINGS, WALKS, WALLS, AND OTHER HARD SURFACES IS MINIMIZED. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO USING THE BEST NOZZLE RADIUS AND PATTERN, USING PRESSURE COMPENSATING DEVICES FOR NOZZLES, USING ADJUSTABLE NOZZLES, OR USING THE RADIUS ADJUST SCREW ON INDIVIDUAL NOZZLES.
- 24. FINE TUNE EACH CONTROL VALVE FOR OPTIMUM OPERATION. THIS SHALL BE DONE BY TURNING DOWN THE FLOW CONTROL OF THE VALVE UNTIL SYSTEM PERFORMANCE STARTS TO SUFFER. AT THAT POINT, OPEN UP VALVE FLOW CONTROL ABOUT ONE-HALF TURN OR UNTIL THE VALVE IS JUST OPEN ENOUGH FOR DESIRED OPERATION.
- 25. CONTRACTOR SHALL INSTALL 2 EXTRA WIRES FROM CONTROLLER(S) TO EACH END OF THE MAINLINE. WIRES SHALL COME UP INTO ALL VALVE BOXES ALONG THE MAINLINE PATH WITH 36" EXPANSION COILS IN EACH BOX. SPARE WIRES SHALL BE COLOR-CODED DIFFERENTLY THAN OTHER CONTROL WIRES FOR EACH CONTROLLER
- 26. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR IS TO TURN OVER TO THE OWNER THE FOLLOWING:
- 26.a. A REPRODUCIBLE SET OF "AS-BUILT" DRAWINGS AND CONTROLLER CHART.
- 26.b. 2 KEYS FOR EACH CONTROLLER / CONTROLLER ENCLOSURE (AS APPLICABLE)
- 26.c. 2 QUICK COUPLER KEYS AND MATCHING HOSE SWIVELS.
- 26.d. 100' OF EACH DRIP LINE TUBING SPECIFIED (AS APPLICABLE).
- 26.e. 10 OF EACH DRIP EMITTER / FLUSH VALVE / DRIP SYSTEM APPARATUS SPECIFIED (AS APPLICABLE)
- 27. RECORD DRAWINGS THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL TRANSCRIBE ALL INFORMATION FROM THE RECORD SET TO A BLACK-LINE PRINT PROCURED FROM THE OWNER. ALL WORK SHALL BE NEAT AND LEGIBLE, LOCATING THE FOLLOWING ITEMS FROM PERMANENT POINTS OF REFERENCE: SHUT-OFF VALVES, MAINLINE AND CONTROL WIRE ROUTING, POC, BACKFLOW DEVICE, CONTROL VALVES, CONTROLLER, QUICK COUPLING VALVES, AND OTHER PERTINENT UNDERGROUND ITEMS.
- 28. "CONTROLLER CHART" UPON APPROVAL OF THE FINAL RECORD DRAWINGS, PROVIDE ONE CHART FOR EACH CONTROLLER INSTALLED.
- 28.A. THE CHART IS TO BE A REDUCED COPY OF THE APPROVED RECORD DRAWING (A BLACK-LINE PRINT REDUCED TO THE MAXIMUM SIZE THE CONTROLLER DOOR WILL ALLOW, COLORED WITH A DIFFERENT COLOR FOR EACH VALVE STATION'S AREA OF COVERAGE).
- 28.B. WHEN COMPLETED AND APPROVED, THE CHART SHALL BE LAMINATED BETWEEN TWO (2) PIECES OF 20 MIL. CLEAR PLASTIC AND MOUNTED ON THE INSIDE OF THE CONTROLLER DOOR USING VELCRO TAPE OR EQUAL.

# 29. DRIP LINE IRRIGATION

- 29.A. DRIP LINE TUBING IS SHOWN ON THE PLANS WITH A HATCH AND VALVE-ASSIGNMENT NUMBER IN THE HATCH. CONTRACTOR SHALL ADJUST LAYOUT AS DETERMINED NECESSARY IN THE FIELD TO MATCH THE ACTUAL SITE CONDITIONS, DIMENSIONS, ETC.
- 29.B. ALL DRIP LINE SYSTEMS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. THIS SHALL INCLUDE. BUT NOT BE LIMITED TO SOIL TYPE CONSIDERATION. PLANT TYPE CONSIDERATION, SLOPES, TYPICAL TUBING LAYOUT, SUPPLY HEADERS, FLUSH HEADERS, AIR-RELEASE VALVES, FLUSH VALVES, SOIL STAPLES, AND OPERATION INDICATORS, ETC.
- 29.C. EACH DRIP LINE SYSTEM SHALL HAVE A DRIP ZONE VALVE ASSEMBLY THAT INCLUDES A PRESSURE REGULATOR AND IN-LINE FILTER PER THE IRRIGATION LEGEND.
- 29.D. EXTEND PVC LATERAL LINE PIPING PER IRRIGATION LEGEND FROM THE DRIP ZONE VALVE INTO THE PLANTING AREAS. ALL SUPPLY HEADERS AND FLUSH HEADERS SHALL BE PVC PIPING OR DRIP LINE TUBING AS SPECIFIED ON THE DRAWINGS.
- 29.E. CONNECT THE DRIP LINE TUBING INTO THE PVC / POLY TUBING HEADERS PER THE MANUFACTURER'S DIRECTIONS, USING FITTINGS AS SUPPLIED BY THE MANUFACTURER OF THE DRIP LINE TUBING.
- 29.F. DRIP LINE TUBING RUNS SHALL BE SPACED AT APPROXIMATELY 18" O.C. OR AS NOTED ON THE PLANS.
- 29.G. TUBING SHALL RUN GENERALLY PARALLEL TO THE LONG AXIS OF THE PLANTING AREAS. THE EXCEPTION TO THIS WOULD BE SLOPED AREAS WHERE THE TUBING SHALL RUN PARALLEL TO THE SLOPE CONTOURS.
- 29.H. FLUSH VALVES SHALL BE INSTALLED A THE TERMINAL ENDS AND/OR LOW POINTS OF ZONES IN ALL DIRECTIONS. AIR RELEASE VALVES, WHERE REQUIRED FOR BURIED SYSTEMS, SHALL BE INSTALLED AT THE HIGH POINTS OF EACH ZONE. REFER TO THE MANUFACTURER'S DIRECTIONS FOR THE QUANTITY OF FLUSH VALVES AND AIR-RELEASE VALVES RECOMMENDED FOR EACH ZONE.
- 29.I. DRIP LINE TUBING SHALL BE INSTALLED ON OR BELOW FINISH GRADE (PER LEGEND), STAPLED DOWN, AND COVERED WITH MULCH/BACKFILL PER THE PLAN.
- EACH DRIP LINE ZONE SHALL INCLUDE AN OPERATION INDICATOR. THE OPERATION INDICATOR SHALL BE INSTALL AT THE FARTHEST POINT AWAY FROM THE ZONE DRIP VALVE ASSEMBLY.
- 29.K. ALL FITTINGS USED FOR DRIP LINE TUBING CONNECTIONS AND DRIP LINE TUBING TO PVC CONNECTIONS SHALL BE AS PRODUCED AND SUPPLIED BY THE MANUFACTURER OF THE DRIP LINE TUBING.

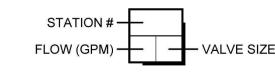
N	IWELO - WAT	ER EFFICIENT L	ANDSCAPE WO	RKSHEET - CO	MMERCIAL (NO	SLA)	
Reference Evapotranspiration (ETo) 47.5			(Calabasas) MAWA = Eto X (		= Eto X 0.62 X	0.62 X (0.55 X LA)	
Hydrozone # Planting Description	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)
		REGU	JLAR LANDSCA	PE AREAS			
Shrub Drip Emitter-Low	0.30	Drip Emitter	0.85	0.35	37	13	385
Shrub Drip Emitter-Med	0.50	Drip Emitter	0.85	0.59	979	576	16,974
Shrub Drip Emitter-High	0.70	Drip Emitter	0.85	0.82	97	80	2,355
Shrub Dripline-Med	0.50	Dripline	0.85	0.59	548	322	9,501
Groundcover Dripline-Low	0.30	Dripline	0.85	0.35	700	247	7,282
Groundcover Dripline-Med	0.50	Dripline	0.85	0.59	333	196	5,774
Tree (Exist.) Dripline-Low	0.30	Dripline	0.85	0.35	100	35	1,040
Tree (New) Bubbler-Med	0.50	Bubbler	0.81	0.62	32	20	582
				Total	2,826	1,489	
				-	•	ETWU TOTAL	43,893
			MAXIN	/IUM APPLIED	WATER ALLOW	ANCE (MAWA)	45,813
ETAF CALCULATIONS - REGUL	AR LANDSCA	PE AREAS					
Total ETAF x Area =	1,489	]					
Total Area =	2,826	]					
Average ETAF =	0.53	1					

# **EQUIPMENT LEGEND**

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE
	NIBCO T-580-70 TWO-PIECE BRONZE BALL VALVE - GULL PORT	LINE SIZE
С	HUNTER HYDROWISE - WALL MOUNT INSTALLATION, WITH HUNTER WIRELESS FLOW METER TO BE FURNISHED BY OWNER. INSTALL PER MANUFACTURER'S SPECIFICATIONS	16 STATION
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS (RUN WIRE TO ALL NEW CONTROLLER STATIONS, INCLUDING ANY SLEEVES NECESSARY	14 GA UF
•	RAINBIRD XCZ-100-PBRR DRIP VALVE ASSEMBLY (0.3 TO 20 GPM) OR SIMILAR WITH QUICK CHECK PRESSURE REG. BASKET STRAINER (40 PSI REG. / 200 MESH FILTER)	LINE SIZE 1"
M	EXISTING METER	
	NEW 1" SCH. 40 PVC MAINLINE - 48" MINIMUM COVER	PLAN SIZE
	SCH. 40 PVC NON-PRESSURE LATERAL LINE - 12" MINIMUM COVER	PLAN SIZE
	SCH. 40 PVC PIPE SLEEVING - EXTEND 6" BEYOND EDGE OF HARDSCAPE - 18" MINIMUM COVER	PLAN SIZE
AS NEEDED	SCH. 40 PVC WIRE SLEEVING - EXTEND 6" BEYOND EDGE OF HARDSCAPE - 18" MINIMUM COVER	
0	12" POP-UP ROTOR SPRINKLER. HUNTER MP ROTATOR	

## **DRIP LEGEND**

SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE
<b>A</b>	NEW AND EXISTING TREES - RINGS OF DRIP LINE TUBING AROUND EACH TREE - PROVIDE 2 RINGS AROUND EACH TREE. USE NETAFIM TLHCVXR-RWP DRIP LINE TUBING WITH 0.77 GPH EMITTERS AT 12" O.C. FIRST RING OF TUBING TO HAVE 24" RADIUS. SECOND RING OF TUBING TO HAVE 48" RADIUS.	1"
NOT SHOWN	SHRUB EMITTERS - EMITTER TO BE RAINBIRD XERI-BUG EMITTERS. 1 EMITTER PER GAL./ 2 EMITTERS PER 5 GAL. OR 15 GAL., 3 EMITTERS PER 24" BOX OR EXISTING SHRUB	.77 GPH 12" O.C. 12" O.C.
F	NETAFIM TLSOV SERIES MANUAL FLUSH VALVE. TO BE PLACED IN AN NDS VALVE BOX	
	ON-GRADE - DRIP LINE TUBING GRID IN PLANTING AREAS - PROVIDE NETAFIM TLHCVXR-RWP DRIPLINE. TUBING TO HAVE 0.77 GPH EMITTERS AT 12" O.C. ROWS OF TUBING TO BE SET AT ABOUT 12" O.C. FOLLOW THE MANUFACTURER'S INSTALLATION RECOMENDATIONS AND DIRECTIONS. TUBING TO BE SET ON FINISHED GRADE, STAPLED DOWN, AND COVERED WITH MUCH PER THE PLANTING PLAN	.77 GPH 12" O.C. 12" O.C.



"OR APPROVED EQUAL" PRODUCTS MAY BE SUBMITTED IN LIEU OF SPECIFIC ITEMS/MANUFACTURERS SHOWN ON PLANS.

PIPE S	IZING
	3/4" PIPE 1" PIPE 1 1/4" PIPE 1 1/2" PIPE 2" PIPE 2 1/2" PIPE
# — # — # — #	3" PIPE 4" PIPE 6" PIPE 8" PIPE

SCH 40	PVC SLEEVING (	CHART
1 1/4" SLEEVE	1-8 WIRES	1/2" PIPE
1 1/2" SLEEVE	9-16 WIRES	3/4" PIPE
2" SLEEVE	17-26 WIRES	1" PIPE
2 1/2" SLEEVE	27-38 WIRES	1 1/4" PIPE
3" SLEEVE	39-54 WIRES	1 1/2" PIPE
4" SLEEVE	55-100 WIRES	2" PIPE
6" SLEEVE	100+ WIRES	3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

MAKE IRRIGATION POINT OF CONNECTION INTO 1" IRRIGATION WATER METER IN THE APPROXIMATE LOCATION SHOWN ON THE PLANS IRRIGATION METER PROVIDED BY OTHERS, VERIFY EXACT LOCATION IN THE FIELD AND ADJUST AS NECESSARY. INSTALL MASTER VALVE DOWNSTREAM OF BALL VALVE AT P.O.C. AND WIRE TO CONTROLLER PER MANUFACTURER'S DIRECTIONS. MAXIMUM DEMAND IS 12 GPM. MINIMUM STATIC PRESSURE AT METER IS 64 PSI. CONTRACTOR SHALL VERIFY STATIC PRESSURE AT METER PRIOR TO START OF WORK AND NOTIFY THE LANDSCAPE ARCHITECT IN WRITING IF A DISCREPANCY IS FOUND. DO NOT PROCEED WITH ANY IRRIGATION INSTALLATION WORK UNTIL ANY AND ALL WATER SUPPLY AND PRESSURE ISSUES HAVE BEEN RESOLVED.

CONTROLLER
INSTALL IRRIGATION CONTROLLER FURNISHED BY OWNER ON EXTERIOR BUILDING WALL AS SHOWN ON THE PLANS. FINAL CONTROLLER LOCATION TO BE APPROVED IN THE FIELD BY THE OWNER OR AUTHORIZED REPRESENTATIVE. INSTALL THE CONTROLLER AT APPROXIMATELY EYE LEVEL FOR EASY OPERATION. THE INTENT IS FOR THE IRRIGATION CONTROLLER TO BE HIDDEN FROM CASUAL VIEW. THE IRRIGATION CONTRACTOR SHALL COORDINATE 120V AC POWER TO THE FINAL CONTROLLER LOCATION WITH GENERAL CONTRACTOR AND/OR ELECTRICAL CONTRACTOR AS NECESSARY, AND PAY ALL ASSOCIATED COSTS. THE IRRIGATION CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS PER LOCAL CODES. MOUNT, GROUND, AND WIRE ALL THE CONTROL EQUIPMENT PER THE MANUFACTURER'S DIRECTIONS, THESE PLANS, AND PER ALL LOCAL CODES.

MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED

AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.

DRIP LINE SYSTEMS
TREES, SHRUBS, AND GROUND COVER AREAS AS SHOWN SHALL BE IRRIGATED WITH DRIPLINE, BUBBLER, OR EMITTER IRRIGATION. INSTALL ALL SYSTEMS PER THE DESIGN INTENT OF THESE PLANS, AND THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS. CONTRACTORS NOT FAMILIAR WITH THESE SYSTEM INSTALLATIONS SHALL CONTACT THE MANUFACTURER'S REPRESENTATIVE PRIOR TO START OF WORK FOR ON-SITE PRODUCT AND INSTALLATION TRAINING.

POINT OF CONNECTION INFORMATION

METER SIZE - 2" EXISTING MASTER VALVE - 1" MAXIMUM DEMAND - 12 GPM NUMBER OF VALVES - 16 CONTROLLER SIZE - 16 STATION STATIC PRESSURE AT METER - 64 PSI

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