

DRIP IRRIGATION LEGEND

	DZK-700-1-LF (FLOW BETWEEN 0.1 TO 7.9 GPM) DZK-700-1-MF (FLOW BETWEEN 8.0 TO 20 GPM)	TORO	700 ULTRAFLOW IN-LINE DRIP ZONE VALVE KITS WITH Y-FILTER, REMOTE CONTROL VALVE, ISOLATION BALL VALVE & MED/LOW FLOW PRESSURE REGULATOR & EFFLUENT VALVE ID TAG
	AS DETAILED	TORO	PVC TO DRIPPERLINE CONNECTION
	DRIP LINE MODEL # (GPH AND EMITTER SPACING) DRIP LINE SPACING (MAX)		
	MAXIMUM LINE RUN LENGTH @ 25PSI: 515'	TORO	0.53 GPH BLACK DRIPPERLINE WITH ROOTGUARD EMITTERS AT 18" ON CENTER
	240'	TORO	1.0 GPH BLACK DRIPPERLINE WITH ROOTGUARD EMITTERS AT 12" ON CENTER
	AS DETAILED	TORO	DRIPPERLINE TO DRIPPERLINE CONNECTION. USE TORO LOC-EZE FITTINGS COMPATIBLE WITH DRIPPERLINE PIPE. USE THIS CONNECTION AT TIGHT BENDS AND AS INDICATED ON DETAIL DIAGRAM
	YD-500-34	TORO	AIR VACUUM RELIEF VALVE AND BOX PER DETAIL. CROSS-CONNECT ALL DRIPPERLINES TO AVRV WITH BLANK TUBING
	FCH-H-FIPT	TORO	AUTOMATIC FLUSH VALVE ASSEMBLY AND BOX PER DETAIL
	SEE DETAIL	TORO	MANUAL FLUSH VALVE ASSEMBLY AND AUTO-FLUSH VALVE IN BOX PER DETAIL
	NETAFIM		POP-UP FLAG INDICATOR. SET FLUSH WITH FINISH GRADE. INSTALL PER MANUFACTURER'S SPECIFICATIONS. LOCATE AWAY FROM PATHWAYS. AT LOCATIONS DIRECTED BY THE SITE MAINTENANCE PERSONNEL REVIEW LOCATIONS ON-SITE WITH MAINTENANCE PERSONNEL PRIOR TO INSTALL.
	PVC: CLASS 200 SCH 40 UNDER PAVING		PURPLE NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN PIPE SIZE. INSTALL AS COLLECTOR LATERAL FOR ALL WATER THAT HAS PASSED THROUGH DRIPPERLINES

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	MNFR	DESCRIPTION & NOTES
			POINT OF CONNECTION
	MC-48E-P-6B	IRRITROL	48 STATION STAINLESS STEEL TOP-ENTRY PEDESTAL MOUNT ET IRRIGATION CONTROLLER WITH REMOTE READY AND FLOW SENSOR BASED, AND COMPATIBLE WITH IRRITROL CLIMATE LOGIC WIRELESS WEATHER SENSING SYSTEM TO AUTOMATICALLY ADJUST THE CONTROLLER'S PROGRAM BASED ON EACH DAY'S WEATHER. 5 YEAR WARRANTY, COORDINATE INSTALLATION WITH TORO REPRESENTATIVE CHRIS STEELE (559) 779-8676. RE-CONNECTION OF (E) VALVES IS REQUIRED. CONNECT COMPLETE, TEST & TIME VALVES, REPAIR IN KIND AS REQUIRED.
	GROUND PER		
	CL-100-WIRELESS CL-M1	IRRITROL	CLIMATE LOGIC WIRELESS WEATHER SENSING SYSTEM. PROVIDE ONE RECEIVER (CL-M1) FOR EACH CONTROLLER. INSTALL AT MAXIMUM 1,000 FEET LINE-OF-SIGHT SIGNAL RANGE. INSTALL THE EXTRA RECEIVING DEVICE (CL-M1) FOR SECOND CONTROLLER TO CLIMALOGIC DEVICE
	TMR-1	TORO	MAINTENANCE REMOTE (PROVIDE 2 MAINTENANCE REMOTE TO OWNER)
	P220SG-27-X-X SERIES RCV (TPV100 FOR FLOWS UNDER 1 GPM)	TORO	REMOTE CONTROL ANGLE VALVE ASSEMBLY W/ OPTIONAL SPIKE GUARD AND BOX. SIZE PER PLAN. TUNE VALVE FOR FLOWS FROM 1-5 GPM. INSTALL PER DETAIL
	LT-###-T LINE SIZE TYP (2" AND SMALLER)	KBI	LO-TORQUE™ SCH 80 PVC THREADED BALL VALVE SHUT-OFF OR ISOLATION VALVE, FOR LINES 2" AND SMALLER
	100-2SLLVC LK - PROVIDE (3) TOTAL 100-MHS - PROVIDE (3) TOTAL 100-SLK - PROVIDE (3) TOTAL	TORO	2-PIECE, 1" SINGLE-LUG RECYCLED WATER QUICK COUPLER VALVE W/ LAVENDER LOCKING COVER KEY FOR LOCKING COVER 1" NPT x 1" MHT HOSE SWIVEL SINGLE LUG KEY, 1" TOP PIPE THREAD OUTLET W/INTERNAL 3/4" NPT THREAD
	CARSON #1419 CHRISTY #N-9 (PAVING)	OLD CASTLE	PULL BOX
	WYE STRAINER W/ 20 MESH SCREEN OR FINER SCREEN	WILKINS	2" WILKINS 500 SERIES PRESSURE REDUCING VALVE WITH STANDARD 25-75 PSI ADJUST PRESSURE REGULATOR SO THAT DYNAMIC PRESSURE AT THE IRRIGATION VALVE WITH THE HIGHEST PRESSURE LOSS MAINTAINS ITS SPECIFIED DESIGN PRESSURE AND NO HIGHER. OUTLET PRESSURE SHOULD BE SET AT 53 - 60 PSI.
	2000 SERIES	GRISWOLD	1 1/2" NORMALLY OPEN MASTER VALVE
	IR-220P	DATA INDUSTRIAL	1" FLOW SENSOR
			EXISTING MAINLINE TO REMAIN COMPLETE. RECONNECT (E) VALVES AND WIRES TO NEW CONTROLLER COMPLETE.

	PVC: CLASS 200 SCH 40 UNDER PAVING	--	NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN. PIPE SIZE.
	PVC: CLASS 315 SCHEDULE 40	--	MAIN PRESSURE IRRIGATION PIPE, SEE SPECS
			SIZE MATERIAL
			1" SCH 40 W/SOLVENT WELD SCH 40 FITTINGS, FOR QUICK COUPLER BRANCH ONLY
			2" CLASS 315 W SOLVENT WELD SCH 40 FITTINGS, TYPICALLY, ALL MAIN LINES, UNLESS OTHERWISE NOTED.
	PVC: CLASS 315	--	SLEEVE. SIZE AS REQUIRED
	PVC: SCHEDULE 40 ELECTRICAL CONDUIT	--	ELECTRICAL CONDUIT. SIZE AS REQUIRED. INSTALL PARALLEL TO MAIN LINE UNDER ALL PAVING
	FLOW SENSOR CABLE	--	ELECTRICAL CONDUIT. SIZE AS REQUIRED. INSTALL PARALLEL TO MAIN LINE UNDER ALL PAVING.
	COPPER K	--	POTABLE WATER LINE
			LATERAL SIZING
			MAINLINE SIZING
			STATION NUMBER
			VALVE SIZE
			GALLONS PER MINUTE

BUBBLERS						
	570Z 4P-PRX-COM FB-200-ADJ-PC2.00	TORO	BLACK	ADJUSTABLE FLOW FULL-CIRCLE FLOOD BUBBLER ON 4" POP-UP WITH PRESSURE REGULATION AND X-FLOW. UP TO 2.0 GPM. SET FLOW AT 0.25 GPM, TYP	0.25	40
M.P. ROTATORS						
	PROS-06-PRS40-CV-R-MP1000	HUNTER	OLIVE	FULL CIRCLE STREAM SPRAY, 6" POP-UP, CHECK VALVE, WITH PRESSURE REG	11.2'	0.75
	PROS-06-PRS40-CV-R-MP1000	HUNTER	MAROON	ADJUSTABLE 90°-210° ARC STREAM SPRAY, 6" POP-UP, WITH PRESSURE REG	11.2'	0.19-0.43
	PROS-06-PRS40-CV-R-MPCORNER	HUNTER	TURQ	CORNER STREAM SPRAY, 6" POP-UP, WITH PRESSURE REG	12.6'	.19
	PROS-06-PRS40-CV-R-MP2000	HUNTER	RED	FULL CIRCLE STREAM SPRAY, 6" POP-UP, WITH PRESSURE REG	17.1'	1.47 40 0.39
	PROS-06-PRS40-CV-R-MP2000	HUNTER	BLACK	ADJUSTABLE 90°-210° ARC STREAM SPRAY, 6" POP-UP, WITH PRESSURE REG	18'-17.1'	0.40-0.86 40 0.39

CALCULATIONS BASED ON JULY 2015 EMERGENCY WATER EFFICIENCY REGULATIONS PROPOSED CHANGES TO WATER USE REGULATIONS. REFER TO HYDROZONE TABLE.

MMWD TITLE 13 IRRIGATION EFFICIENCY ORDINANCE COMPLIANCE: I HAVE COMPLIED WITH THE CRITERIA OF THE MMWD ORDINANCE 421 AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

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IRRIGATION LEGEND

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HYDROZONE INFORMATION TABLE								
35.8 ANNUAL ETO FOR SAN RAFAEL								
HYDROZONE	PLANT FACTOR (WUCOLS)	IRR METHOD	IRRIGATION EFFICIENCY (IE)	ETAF ₂ (PF/IE)	LANDSCAPE AREA (SQ FT)	ETAF ₂ X AREA	ESTIMATED TOTAL WATER USE (ETWU)	
4	.6	B	.81	0.74	16	11.85	263.06	
5	.6	B	.81	0.74	8	5.93	131.53	
6	.6	B	.81	0.74	64	47.41	1052.25	
7	.6	B	.81	0.74	64	47.41	1052.25	
8	.6	B	.81	0.74	108	80.00	1775.68	
9	.6	B	.81	0.74	16	11.85	263.06	
10	.6	B	.81	0.74	4	2.96	65.77	
11	.6	B	.81	0.74	16	11.85	263.06	
13	.3	D	.81	0.37	1185.5	439.07	9745.69	
14	.6	D	.81	0.74	408	302.22	6708.12	
15	.3	D	.81	0.37	474.5	175.74	3900.74	
16	.3	D	.81	0.37	82	30.37	674.10	
17	.3	D	.81	0.37	629.5	233.15	5174.96	
18	.3	D	.81	0.37	844	312.59	6938.31	
19	.3	D	.81	0.37	267.5	99.07	2199.05	
21	.3	D	.81	0.37	147.5	54.63	1212.56	
22	.3	D	.81	0.37	337	124.81	2770.39	
23	.3	D	.81	0.37	141.75	52.50	1165.29	
24	.3	D	.81	0.37	606	224.44	4981.77	
25	.6	D	.81	0.74	182	134.81	2992.35	
26	.3	D	.81	0.37	23	8.52	189.08	
27	.3	D	.81	0.37	67	24.81	550.79	
					TOTAL	5,691.25	1854.26	54,069.87
SPECIAL LANDSCAPE AREAS								
1		S	0.75	1	1026.25	1026.25	22778.65	
2		S	0.75	1	5304.5	5304.500000	117738.68	
3		S	0.75	1	1020	1020.00	22639.92	
12		D	0.81	1	375.75	375.75	8340.15	
20		D	0.81	1	688.5	688.50	15281.95	
					TOTAL	8,415.000000	8415.00	186,779.34
					TOTAL LANDSCAPE AREA (LA + SLA)	14,106.25		
AVERAGE ETAF ₂		ETAF X AREA / TOTAL AREA = (OUR DESIGN RESULT)					0.326	
SITEWIDE ETAF ₂		TOTAL ETAF X AREA / TOTAL LANDSCAPE AREA					0.728	
TOTAL ETWU		(ANNUAL ETO)(0.62 CONVERSION FACTOR) X (AVERAGE ETAF ₂ X TOTAL LANDSCAPE AREA)					TOTAL ETWU	227,936.48
TOTAL MAWA		(ANNUAL ETO)(0.62 CONVERSION FACTOR) [(ETAF ADJUSTMENT FACTOR)(TOTAL LANDSCAPE AREA) + ((1-ETAF)*SLA)]					TOTAL MAWA	243,624.68
		(ANNUAL ETO) X 0.62	ETAF (SCHOOL) X TOTAL LA	1 - ETAF (COMM)	TOTAL SLA			
		22.20	6347.81	0.55	8415.00			

PRESSURE LOSS CALCULATION CHART

ITEMS	PRESSURE LOSS (PSI)	EXISTING IRRIGATION PRESSURE
METER	~10	IRRIGATION WATER PRESSURE & FLOW PROVIDED BY JOSEPH EISCHENS AT THE MARIN MUNICIPAL WATER DISTRICT: STATIC 104 PSI, 2" METER MAX FLOW ~50 GPM
BFP	~12	
MV/FS	3.7	FIELD VERIFY DYNAMIC PRESSURE
MAINLINE	3.85	
VALVE	4.8	
LATERALS	3.02	
SUBTOTAL		
FITTINGS (10%)	4.4	
TOTAL PSI LOSS	41.77	
TOTAL ENDING PRESSURE	62.23	

VALVE BOX SPECIFICATIONS:

1. PLASTIC IRRIGATION VALVE BOXES SHALL BE GREEN COLOR, USE CONCRETE BOXES IN DG & PAVING AREAS AS SHOWN IN THE IRRIGATION DETAILS.
2. IRRIGATION VALVE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE IRRIGATION PLANS. SEE PLANTING PLAN FOR INSTALLATION LOCATIONS, AS WELL AS VALVE BOX LAYOUT DETAIL

SPRAY AND GENERAL IRRIGATION NOTES:

1. INSTALL MAIN LINES, LATERAL LINES AND EQUIPMENT IN PLANTING AREAS AND NOT UNDER PAVEMENT EXCEPT WHERE NECESSARY BETWEEN PLANTERS SEPARATED BY PAVEMENT.
2. INSTALL ALL HEADS ADJACENT TO BUILDINGS AT LEAST 18" AWAY FROM THE BUILDING FACE.
3. THE CONTRACTOR SHALL VERIFY THAT THERE IS NO OVERSPRAY ONTO BUILDINGS, WALLS, COLUMNS OR FENCES. ADJUST OR RENOSZLE AS REQUIRED.
4. INSTALL SLEEVES FOR ALL LATERALS UNDER CONCRETE UNLESS SPECIFICALLY NOTED. NO SLEEVES ARE REQUIRED FOR LATERAL LINES UNDER ASPHALTIC CONCRETE, UNLESS OTHERWISE SHOWN ON PLANS.
5. IRRIGATION VALVE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE IRRIGATION PLANS. SEE PLANTING PLAN AND VALVE BOX LAYOUT DETAIL FOR INSTALLATION LOCATIONS.

SUBSURFACE DRIP IRRIGATION NOTES:

1. PROVIDE TEMPORARY SUPPLEMENTAL OVERHEAD IRRIGATION TO ESTABLISH PLANTS.
2. HOLD DRIPPERLINES 18" OFF FACE OF BUILDING, 6" OFF PAVING @ SHRUBS, 2" OFF PAVING @ SOD, TURF & GROUNDCOVER TYP.
3. SPACE DRIPPERLINES EQUALLY WITHIN EACH ZONE UNLESS OTHERWISE NOTED (12" OR 18" O.C. MAX PER LEGEND)
4. FOR SLOPES GREATER THAN 10:1, MODIFY DRIPPERLINE SPACING ON THE BOTTOM 1/3 OF THE SLOPE TO BE 25% GREATER AND OMIT THE DRIPPERLINE AT THE BOTTOM OF SLOPE.
5. DRIP SYSTEMS WITH 12" & 18" EMITTER SPACING HAVE DIFFERENT PRECIPITATION RATES. INDEPENDENTLY TEST AND SET RUN TIMES FOR THESE TWO CONDITIONS.
6. INSTALL AVR(S) AT HIGH POINT(S) OF EACH PLANTING AREA. AVR'S ARE SHOWN TO INDICATE INTENT- LOCATE AS REQUIRED BASED ON ACTUAL GRADES OF THE SITE. LOCATE (1) AVR PER 500' OF DRIPPERLINE TUBING, TYP. SEE DETAIL

IRRIGATION SYSTEM MAINTENANCE

1. SYSTEM OBSERVATION: THE CONTRACTOR SHALL VISUALLY CHECK ALL SYSTEMS FOR PROPER OPERATION ON A WEEKLY BASIS AND MAKE ALL NECESSARY REPAIRS. ALL EQUIPMENT SHALL BE ADJUSTED AS NECESSARY FOR PROPER COVERAGE AND FUNCTION.
2. ESTABLISHMENT IRRIGATION SCHEDULING: FOR THE FIRST 60-DAYS OF PLANTING ESTABLISHMENT AND MAINTENANCE, PROGRAM CONTROLLER IN A PLANTING ESTABLISHMENT IRRIGATION MODE. SCHEDULE IRRIGATION TO ESTABLISH PLANTINGS PER THE SPECIFICATIONS.
3. CLIMATOLOGICALLY CONTROLLED IRRIGATION SCHEDULING: FOR THE LAST 60-DAYS OF PLANTING ESTABLISHMENT AND MAINTENANCE, PROGRAM CONTROLLER TO RUN AUTOMATICALLY, SITE-SPECIFIC CLIMATOLOGICAL EVAPOTRANSPIRATION (ET) DATA. OPTIMIZE AUTOMATIC SCHEDULE AS REQUIRED FOR PLANT MATERIALS, SUN, ASPECT, SOLAR REFLECTANCE & HEAT ISLANDS, LOCALITY, SLOPE, AND THE INSTALLED IRRIGATION SYSTEM. CHECK SYSTEM FOR PROPER FUNCTION AND ADJUST AUTOMATIC SCHEDULE WEEKLY TO PROVIDE OPTIMAL CONDITIONS FOR SUSTAINING HEALTHY PLANTING.
4. MAINTENANCE STAFF TRAINING: PERFORM A FULL INSTRUCTION SESSION IN THE PRESENCE OF THE DESIGNATED MAINTENANCE PERSONNEL DEMONSTRATING THE IRRIGATION CONTROLLER SYSTEM, PROGRAM ADJUSTMENT AND OVER-RIDES, SYSTEM TESTING, TROUBLE-SHOOTING, ETC. INCLUDE INSTRUCTIONS ON HOW TO TURN OFF SYSTEM IN CASE OF EMERGENCY.
5. REPAIRS: DURING THE PLANT ESTABLISHMENT & MAINTENANCE PERIOD, ALL REPAIRS MADE TO THE IRRIGATION SYSTEM SHALL BE AT THE CONTRACTOR'S EXPENSE. ALL REPAIRS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS.
6. SYSTEM CERTIFICATION: OBTAIN A LETTER OF CERTIFICATION FROM CONTROLLER MANUFACTURER'S REPRESENTATIVE CERTIFYING THAT THE CONTROLLER IS PROPERLY PROGRAMMED AND IN WORKING ORDER BEFORE THE END OF THE MAINTENANCE PERIOD.

PRESERVE AND PROTECT EXISTING IRRIGATION SYSTEM

CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PRESERVATION AND PROTECTION OF THE EXISTING IRRIGATION SYSTEM(S) IN ZONES OUTSIDE THE L.O.W. UNLESS OTHERWISE NOTED IN THESE DRAWINGS.

THIS INCLUDES, BUT IS NOT RESTRICTED TO:

1. ALL RUNS OF MAINLINE OR LATERAL LINE ENCOUNTERED DURING CONSTRUCTION OR OTHERWISE DETECTED.
2. ALL DRIP, BUBBLER OR SPRAY ZONES.
3. ALL QUICK COUPLERS OR OTHER MISCELLANEOUS IRRIGATION APPURTENANCES.
4. SEE CIVIL ENGINEER'S DEMOLITION PLAN FOR RELATED PROTECTIONS NOTES.

CALCULATIONS BASED ON JULY 2015 EMERGENCY WATER EFFICIENCY REGULATIONS PROPOSED CHANGES TO WATER USE REGULATIONS. REFER TO HYDROZONE TABLE.

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IRRIGATION NOTES & CALCULATIONS
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NOTE: SEE SHEETS L6.00 & L6.01 FOR LEGEND AND NOTES

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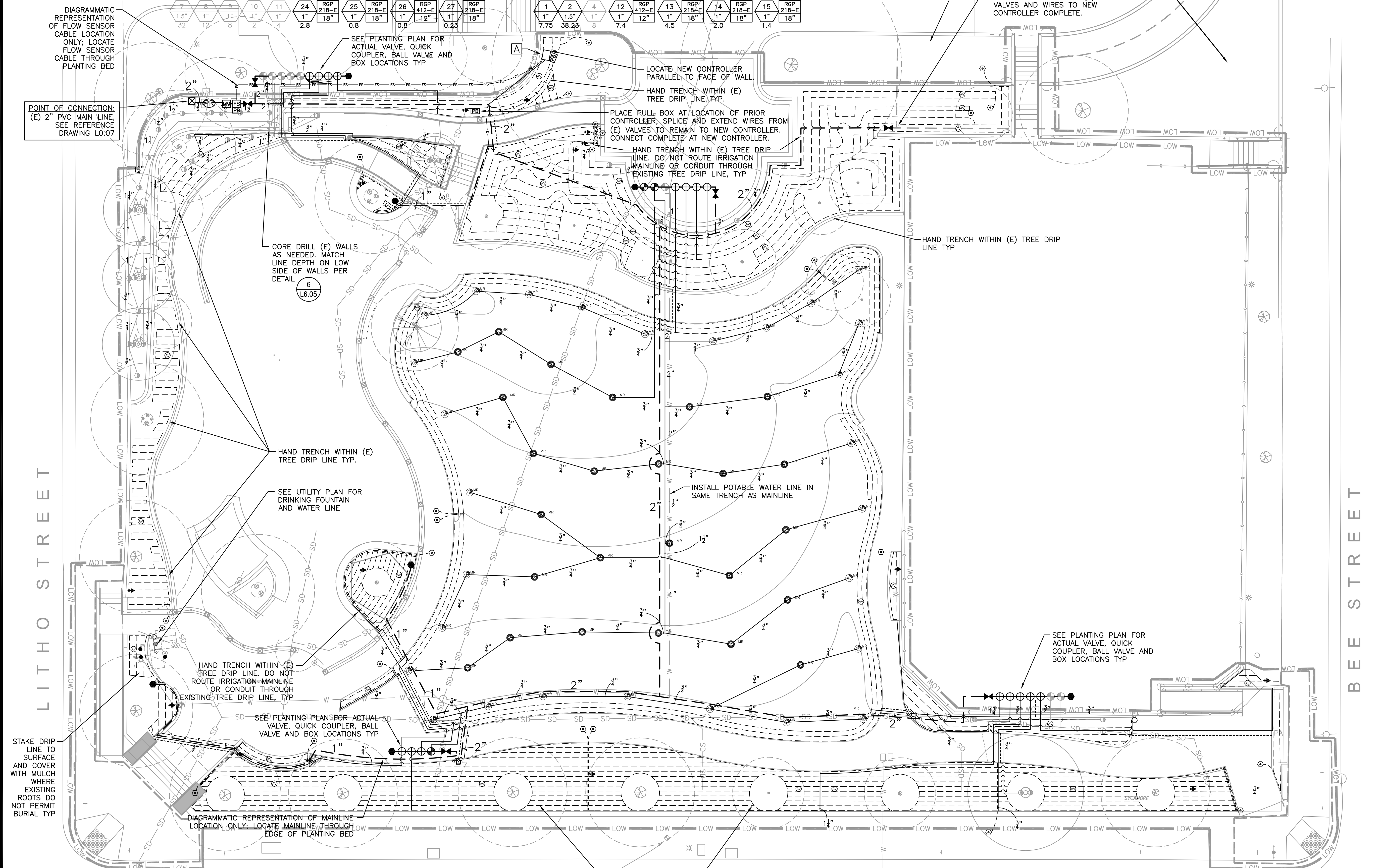
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IRRIGATION PLAN

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DIAGRAMMATIC REPRESENTATION OF FLOW SENSOR CABLE LOCATION ONLY; LOCATE FLOW SENSOR CABLE THROUGH PLANTING BED

POINT OF CONNECTION: (E) 2" PVC MAIN LINE. SEE REFERENCE DRAWING L6.07

SEE PLANTING PLAN FOR ACTUAL VALVE, QUICK COUPLER, BALL VALVE AND BOX LOCATIONS TYP

LOCATE NEW CONTROLLER PARALLEL TO FACE OF WALL. HAND TRENCH WITHIN (E) TREE DRIP LINE, TYP.

PLACE PULL BOX AT LOCATION OF PRIOR CONTROLLER. SPLICE AND EXTEND WIRES FROM (E) VALVES TO REMAIN TO NEW CONTROLLER. CONNECT COMPLETE AT NEW CONTROLLER.

HAND TRENCH WITHIN (E) TREE DRIP LINE. DO NOT ROUTE IRRIGATION MAINLINE OR CONDUIT THROUGH EXISTING TREE DRIP LINE, TYP

CORE DRILL (E) WALLS AS NEEDED. MATCH LINE DEPTH ON LOW SIDE OF WALLS PER DETAIL

HAND TRENCH WITHIN (E) TREE DRIP LINE TYP.

SEE UTILITY PLAN FOR DRINKING FOUNTAIN AND WATER LINE

INSTALL POTABLE WATER LINE IN SAME TRENCH AS MAINLINE

HAND TRENCH WITHIN (E) TREE DRIP LINE. DO NOT ROUTE IRRIGATION MAINLINE OR CONDUIT THROUGH EXISTING TREE DRIP LINE, TYP

SEE PLANTING PLAN FOR ACTUAL VALVE, QUICK COUPLER, BALL VALVE AND BOX LOCATIONS TYP

STAKE DRIP LINE TO SURFACE AND COVER WITH MULCH WHERE EXISTING ROOTS DO NOT PERMIT BURIAL TYP

DIAGRAMMATIC REPRESENTATION OF MAINLINE LOCATION ONLY; LOCATE MAINLINE THROUGH EDGE OF PLANTING BED

SEE PLANTING PLAN FOR ACTUAL VALVE, QUICK COUPLER, BALL VALVE AND BOX LOCATIONS TYP

HAND TRENCH WITHIN (E) TREE DRIP LINES

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