

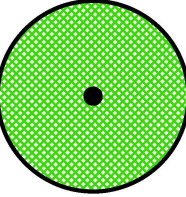
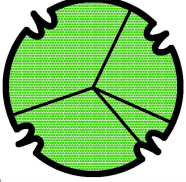




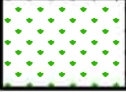


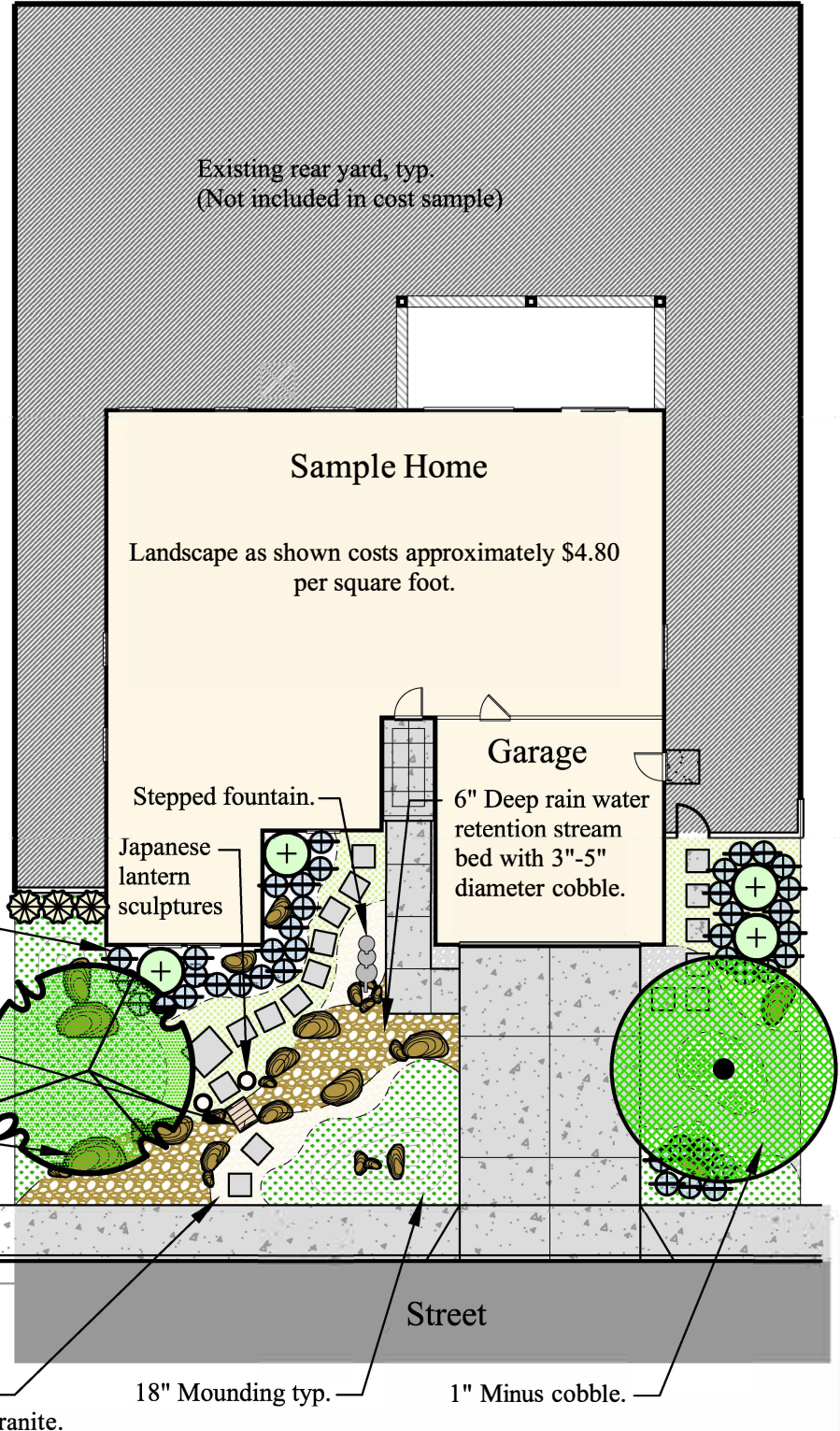
Japanese Garden Front Yard Landscape Design

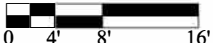
Date: 2/1/2021



Plant Legend:

Plan Symbol	Common Name Botanical Name Container Size
	Willow Acacia <i>Acacia salicina</i> 24" Box
	Japanese black pine <i>Pinus thunbergii</i> 24 Gallon
	Malay Variegated Dwarf <i>Bambusa glaucophylla</i> 1 Gallon
	Japanese boxwood <i>Buxus microphylla japonica</i> 5 Gallon
	Foothill Sedge <i>Carex tumulicola</i> 1 Gallon
	Silver Carpet <i>Dymondia margaretae</i> Flats
	Sheep Fescue <i>Festuca ovina</i> Flats


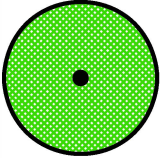

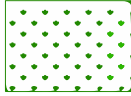

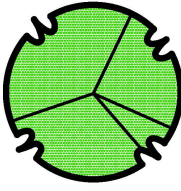
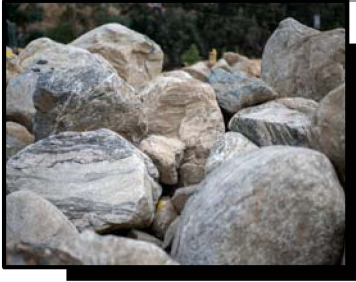



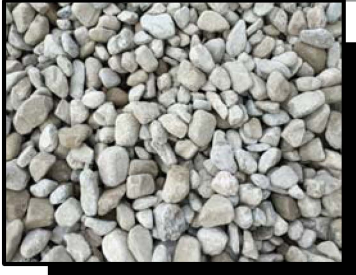
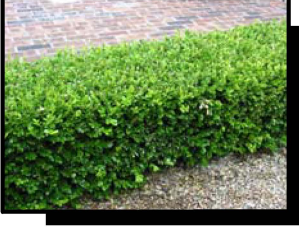

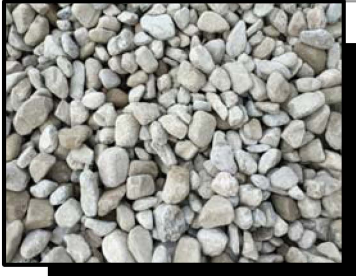







Scale: 1/16" = 1'-0"


This sample landscape concept plan is intended for general guidance only. Costs are estimates only, and are based on licensed contractor installed rates as of January 2021. It is intended that homeowners adapt the concept as needed for the specific conditions of their property, including choice of materials and plants to the appropriate location. Pomona assumes no responsibility for final design or installation.

LANDSCAPE CONCEPT PLAN












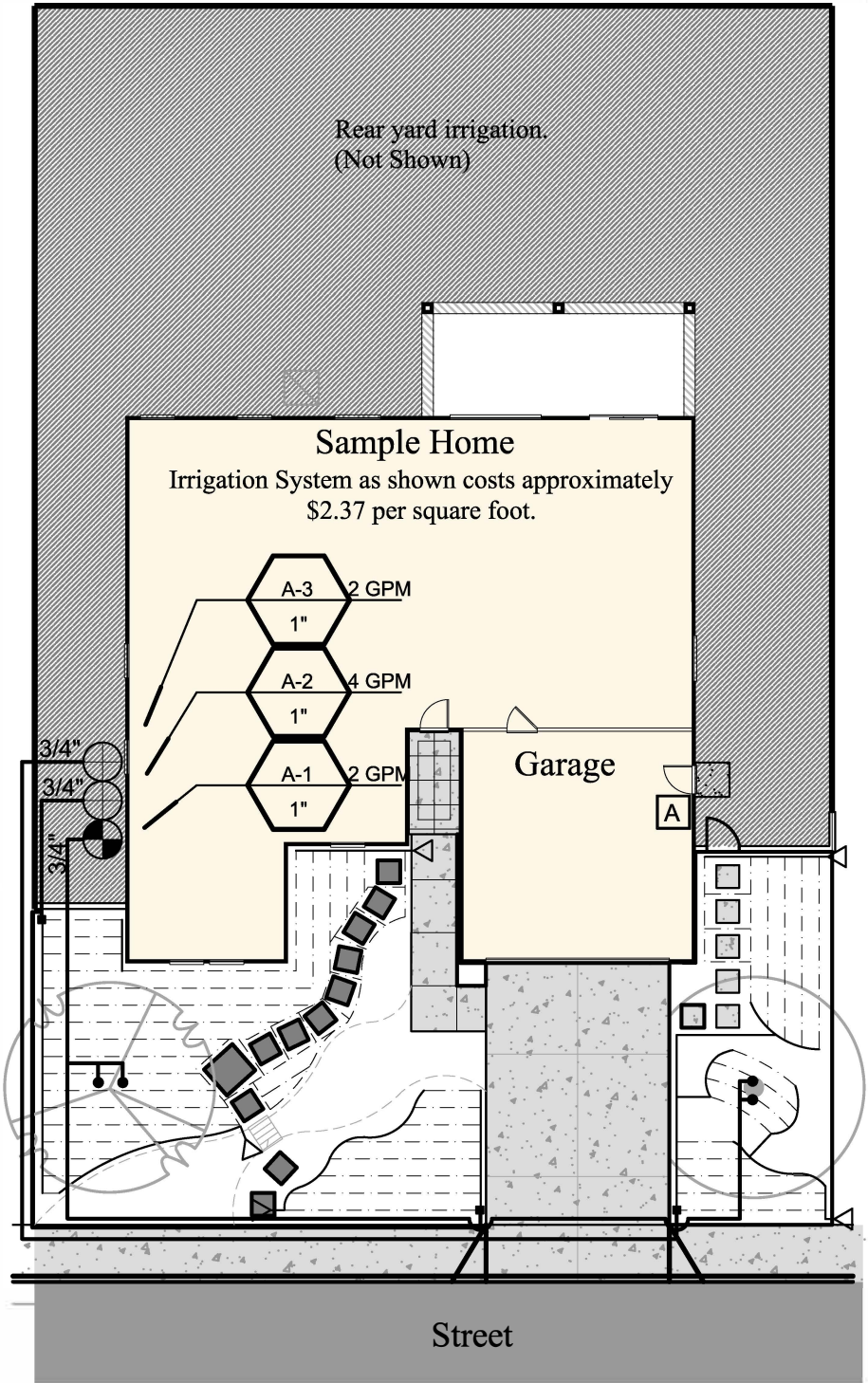
Plant Image	Plan Symbol	Common Name Botanical Name Container Size	Plant Image	Plan Symbol	Common Name Botanical Name Container Size
		Willow Acacia <i>Acacia salicina</i> 24" Box			Sheep Fescue <i>Festuca ovina</i> Flats
		Japanese Black Pine <i>Pinus thunbergii</i> 24 Gallon			Boulders 1.5' - 3' Diameter
		Malay Variegated Dwarf <i>Bambusa glaucophylla</i> 1 Gallon			3" - 5" Diameter Cobble
		Japanese Boxwood <i>Buxus microphylla japonica</i> 5 Gallon			1" Minus Diameter Cobble
		Foothill Sedge <i>Carex tumulicola</i> 1 Gallon			Decomposed Granite
		Silver Carpet <i>Dymondia margaretae</i> Flats			

PLANTING LEGEND



Irrigation Legend:

Plan Symbol	Description
	Smart Irrigation Controller Replace existing irrigation controller with new smart controller. Install per manufacturers instructions.
	Anti-syphon Valve Drip Zone Assembly Replace existing irrigation valves if existing valves are leaking, damaged or not properly working. Install a drip valve assembly for drip irrigation. See detail A.
	Electric Remote Control Anti-syphon Valve Replace existing irrigation valves if existing valves are leaking, damaged or not properly working. See detail B.
	Tree Deep Watering Bubbler Install 2 deep watering bubblers per tree. install per manufacturers instructions. See detail C.
	Spray to Drip Retrofit Kit Install drip retrofit kit by replacing one of the existing spray bodies located within the new planting area. Install per manufacturers instructions. Cap all other spray bodies so they do not emit water. See detail D.
	17mm (5/8") Polyethylene Distribution Tubing This tubing does not have emitters installed inside the tubing. Install distribution tubing at either end of the inline drip tubing to connect the system where irrigation is not needed.
	17mm (5/8") In-Line Emitter Polyethylene Tubing Install 0.6 gallon per hour drip line at 18" row spacing in all planted areas. See detail D.
	Drip Flush Valve Install flush valve at the end of the drip line system to flush debris out of the drip lines. Be sure to flush the system after drip line is first installed. See detail E.
	PVC Schedule 40 Piping & Fittings Install PVC pipe if existing irrigation piping is damaged or not usable.









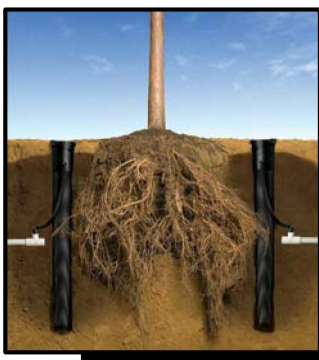


Scale: 1/16" = 1'-0"



This sample irrigation concept plan is intended for general guidance only. Irrigation emission device layout, piping layout and piping sizes are based upon Landscape Concept Plan. It is intended that homeowners adapt the concept as needed for the specific conditions of their property, including choice of materials, appropriate layout and installation of materials per local codes and manufacturer's recommendations. Pomona assumes no responsibility for final design or installation.

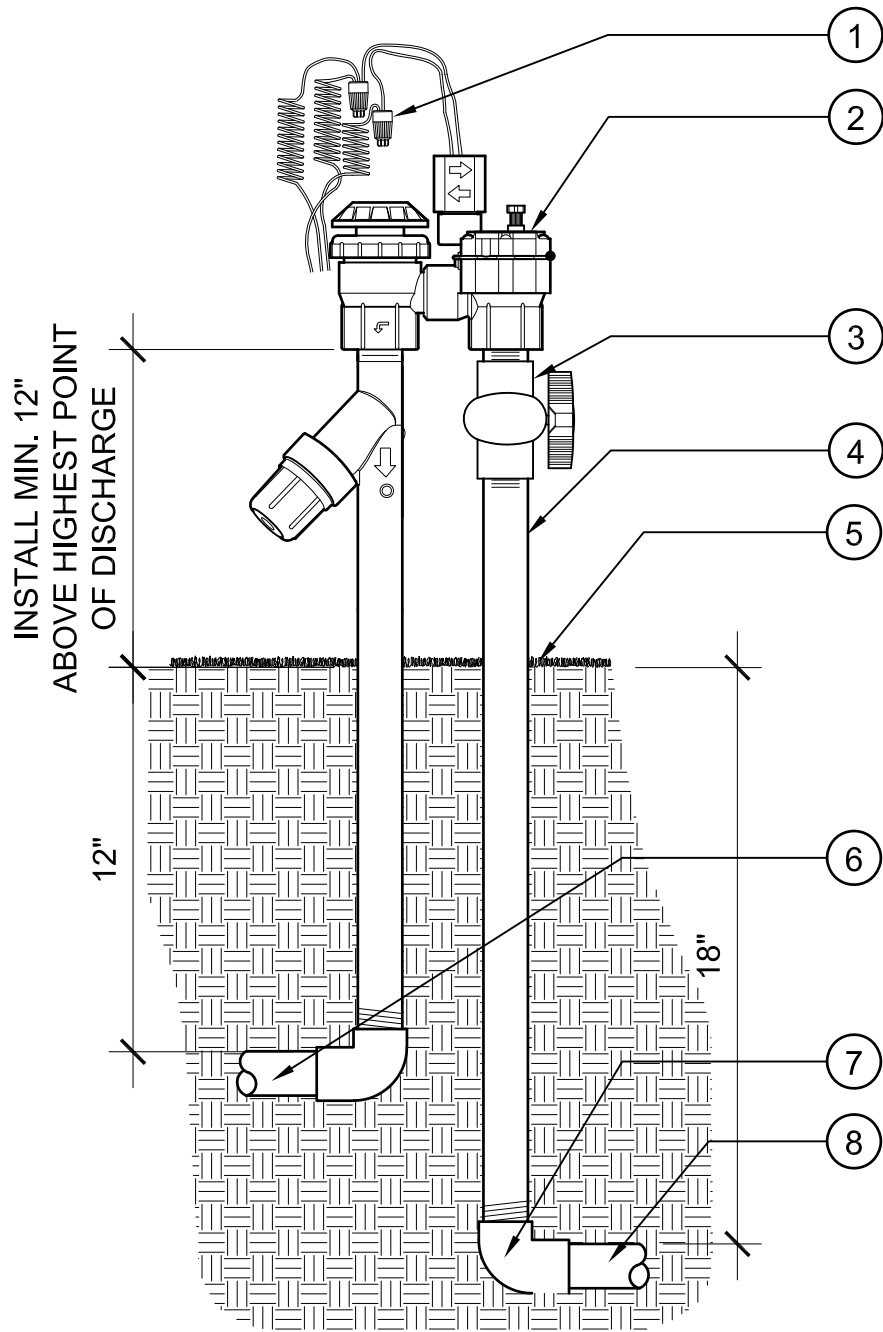


IRRIGATION CONCEPT PLAN

Equipment Image	Plan Symbol	Description	Equipment Image	Plan Symbol	Description
	A	<u>Smart Irrigation Controller</u> Replace existing irrigation controller with new smart controller. Install per manufacturers instructions.		—	<u>17mm (5/8") Polyethylene Distribution Tubing</u> This tubing does not have emitters installed inside the tubing. Install distribution tubing at either end of the inline drip tubing to connect the system where irrigation is not needed.
	⊕	<u>Anti-syphon Valve Drip Zone Assembly</u> Replace existing irrigation valves if existing valves are leaking, damaged or not properly working. Install a drip valve assembly for drip irrigation. See detail A.		- - - -	<u>17mm (5/8") In-Line Emitter Polyethylene Tubing</u> Install 0.6 gallon per hour drip line at 18" row spacing in all planted areas. See detail D.
	⊗	<u>Electric Remote Control Anti-syphon Valve</u> Replace existing irrigation valves if existing valves are leaking, damaged or not properly working. See detail B.		▷	<u>Drip Flush Valve</u> Install flush valve at the end of the drip line system to flush debris out of the drip lines. Be sure to flush the system after drip line is first installed. See detail E.
	●	<u>Tree Deep Watering Bubbler</u> Install 2 deep watering bubblers per tree. install per manufacturers instructions. See detail C.		—	<u>PVC Schedule 40 Piping & Fittings</u> Install PVC pipe if existing irrigation piping is damaged or not usable.
	■	<u>Spray to Drip Retrofit Kit</u> Install drip retrofit kit by replacing one of the existing spray bodies located within the new planting area. Install per manufacturers instructions. Cap all other spray bodies so they do not emit water. See detail D.			

IRRIGATION LEGEND





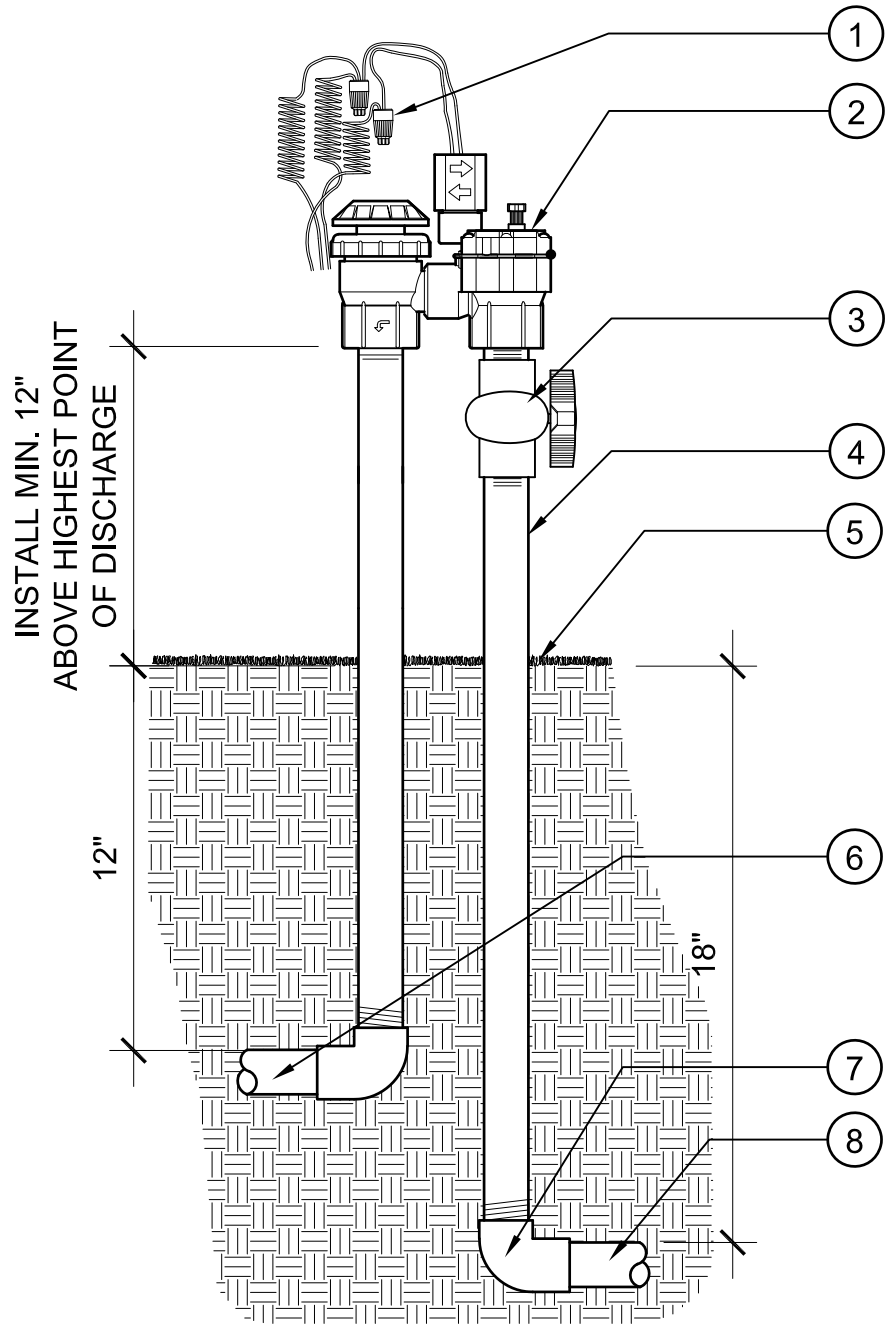
- | | |
|---|---------------------------------|
| ① CONNECT WIRES TO VALVE USING WATER TIGHT CONNECTORS (SEE NOTES) | ⑥ LATERAL LINE |
| ② ELECTRIC DRIP ZONE CONTROL VALVE | ⑦ FIPT X SLIP ELBOW (LINE SIZE) |
| ③ SCH 40 PVC BALL VALVE (LINE SIZE) | ⑧ PRESSURE SUPPLY LINE |
| ④ PVC SCH. 80 NIPPLE (SIZE AS REQUIRED) | |
| ⑤ FINISH GRADE | |

Scale: 1" = 1'-0"

IRRIGATION DETAIL A

DRIP ZONE VALVE ASSEMBLY





- ① CONNECT WIRES TO VALVE USING WATER TIGHT CONNECTORS (SEE NOTES)
- ② ANTI SIPHON CONTROL VALVE
- ③ SCH 40 PVC BALL VALVE (LINE SIZE)
- ④ PVC SCH. 80 NIPPLE (SIZE AS REQUIRED)
- ⑤ FINISH GRADE

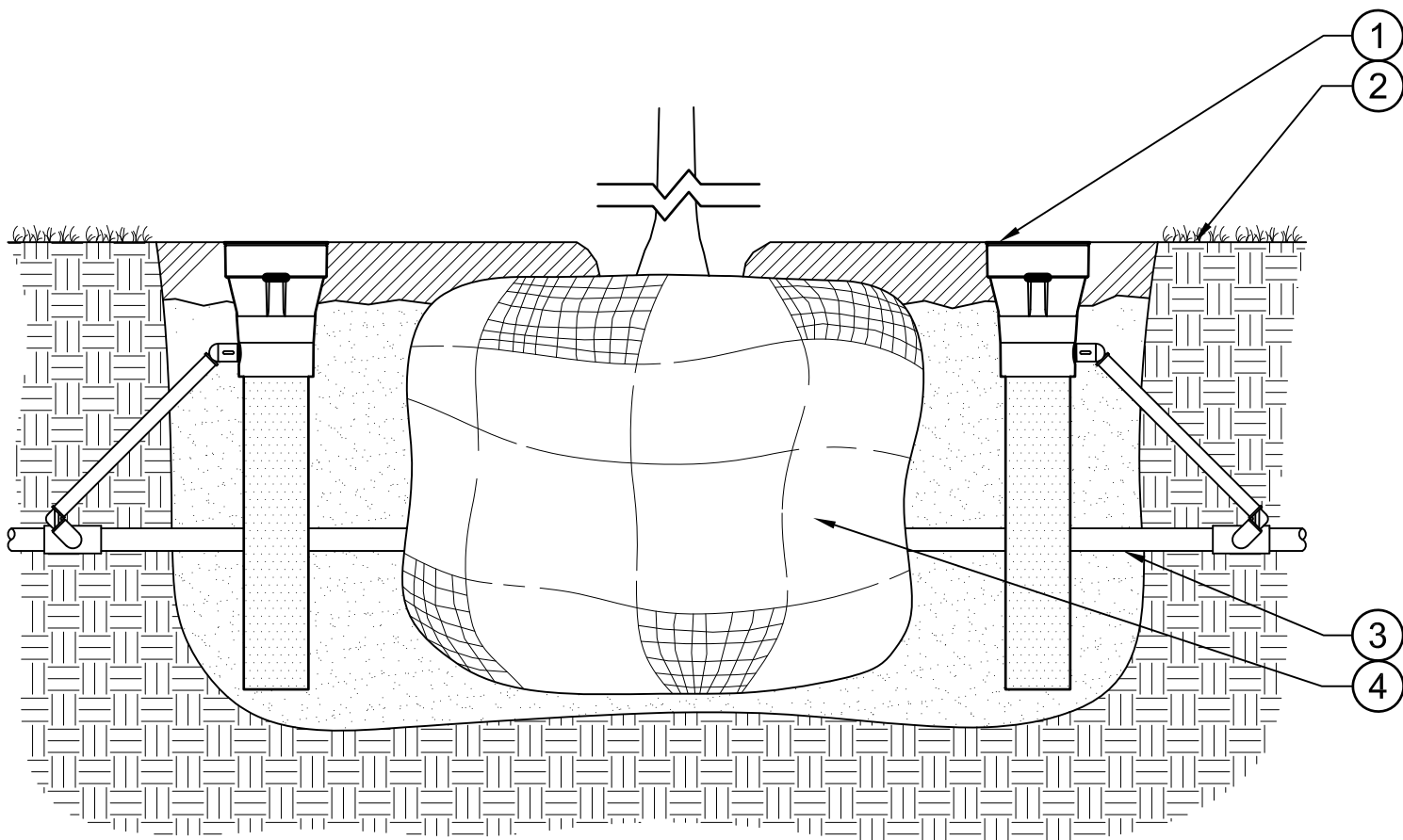
- ⑥ LATERAL LINE
- ⑦ FIPT X SLIP ELBOW (LINE SIZE)
- ⑧ PRESSURE SUPPLY LINE

Scale: 1" = 1'-0"

IRRIGATION DETAIL B

ELECTRIC REMOTE CONTROL VALVE





- ① TREE ROOT WATERING SYSTEM. (2 PER TREE)
- ② FINISH GRADE
- ③ PVC LATERAL PIPE
- ④ ROOT BALL

NOTES:

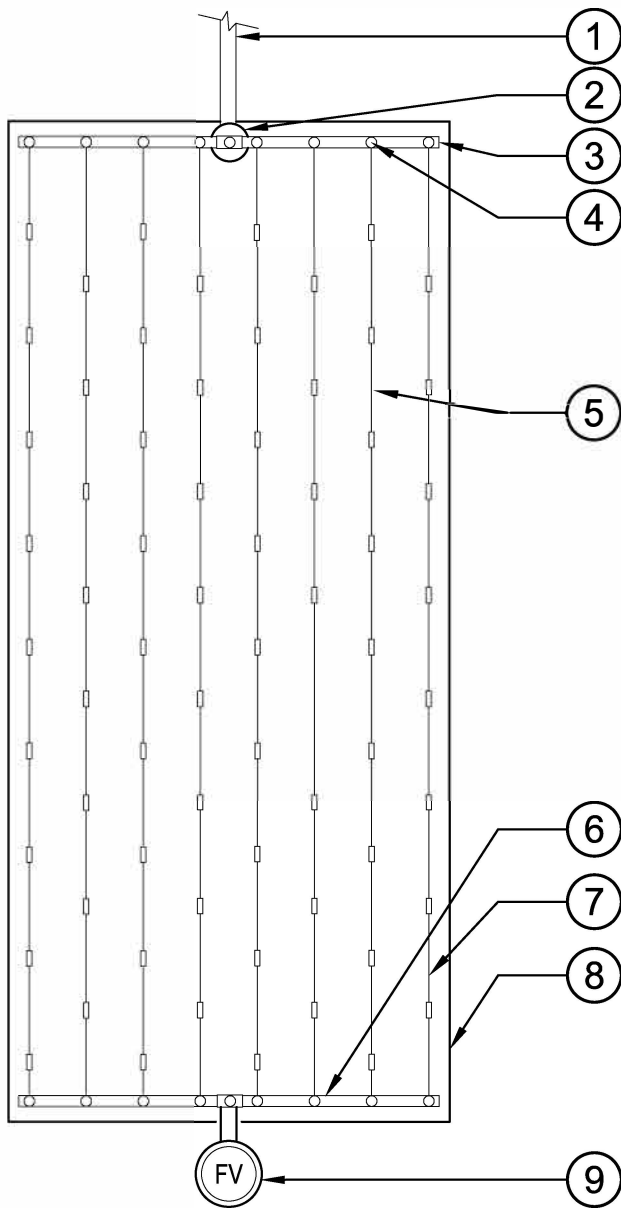
- 1. INSTALL SAND SOCK IN SANDY SOIL TO HELP PREVENT SOIL INTRUSION.

Scale: Not to Scale

IRRIGATION DETAIL C

TREE DEEP WATERING BUBBLER





- ① PVC LATERAL LINE FROM ELECTRIC CONTROL VALVE
- ② SPRAY TO DRIP RETROFIT KIT
- ③ DISTRIBUTION TUBING MANIFOLD
- ④ MANIFOLD TO ELBOW OR TEE CONNECTION
- ⑤ DRIP LINE EMITTER TUBING
- ⑥ DISTRIBUTION TUBING FLUSH MANIFOLD
- ⑦ PERIMETER LATERALS 12" FROM EDGE
- ⑧ HARDSCAPE EDGE
- ⑨ MANUAL FLUSH VALVE PLUMBED TO FLUSH AT LOW POINT

PLAN

NOTES:

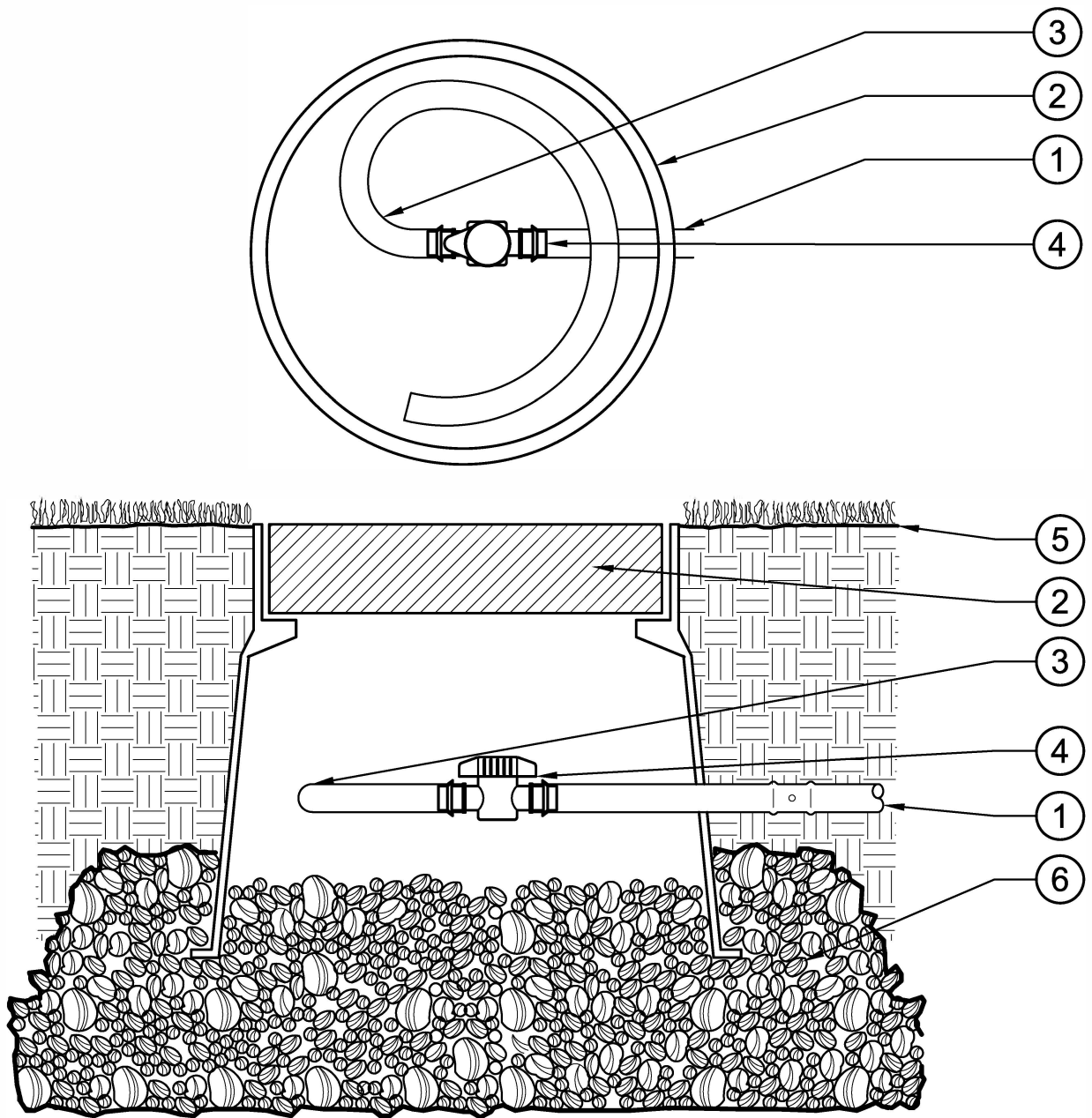
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH PER MANUFACTURER'S SPECIFICATIONS.
3. ALL TUBING SHALL BE STAKED DOWN EVERY 36" USING DRIP TUBING STAPLES OR STAKES.
4. IT IS RECOMMENDED TO BURY THE DRIP TUBING 4" DEEP WHEN POSSIBLE.

Scale: Not to Scale

IRRIGATION DETAIL D

EMITTER TUBING LAYOUT





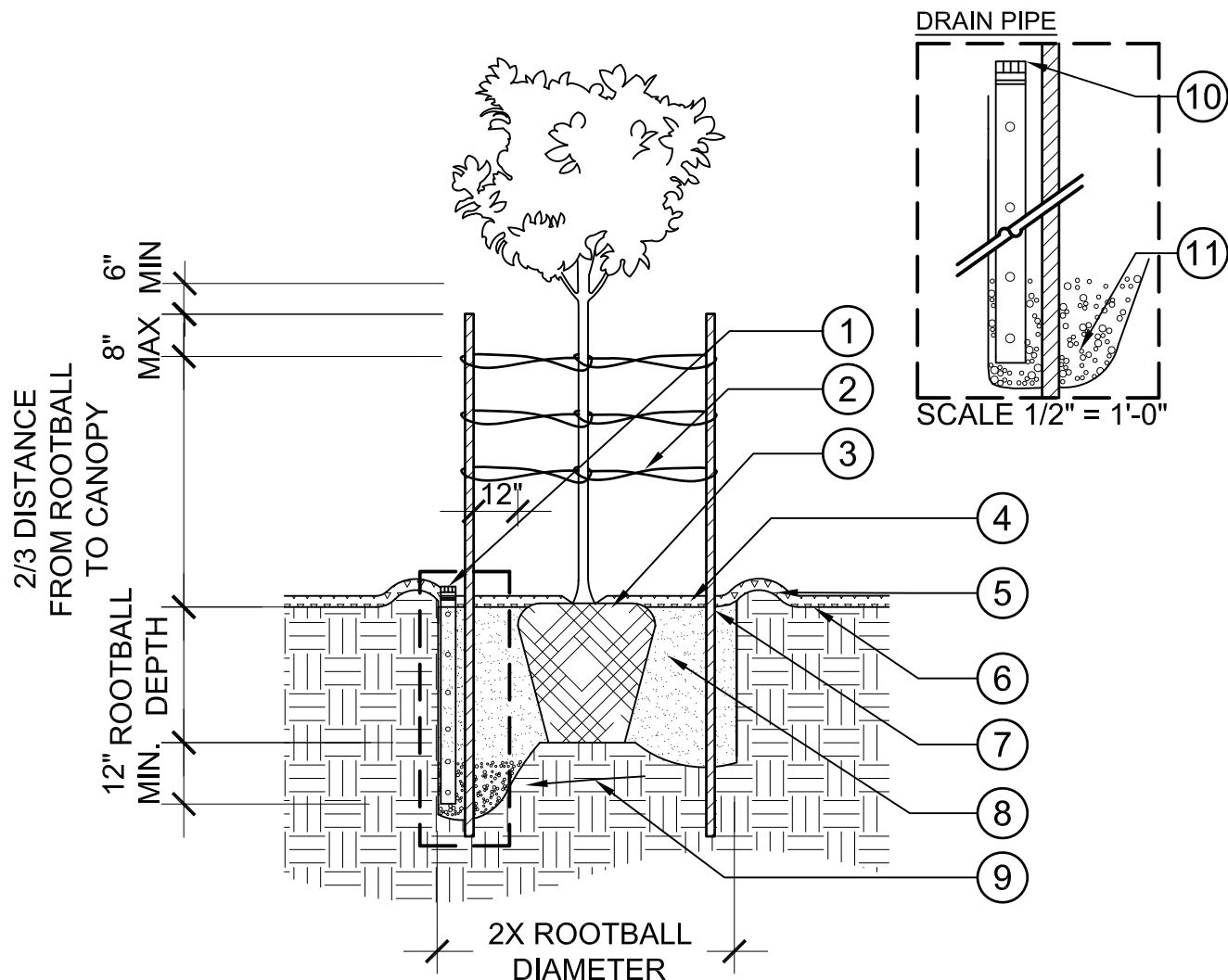
- ① 17mm EMITTER DRIP LINE TUBING
- ② 6" - 8" ROUND VALVE BOX
CUT HOLE FOR TUBING
- ③ 18" LENGTH OF 17mm DRIP
DISTRIBUTION TUBING
- ④ DRIP TUBING ISOLATION BALL VALVE
- ⑤ FINISH GRADE
- ⑥ 3/4" GRAVEL SUMP IN, UNDER AND AROUND
VALVE BOX

IRRIGATION DETAIL E

MANUAL FLUSH VALVE

Scale: 3" = 1'-0"





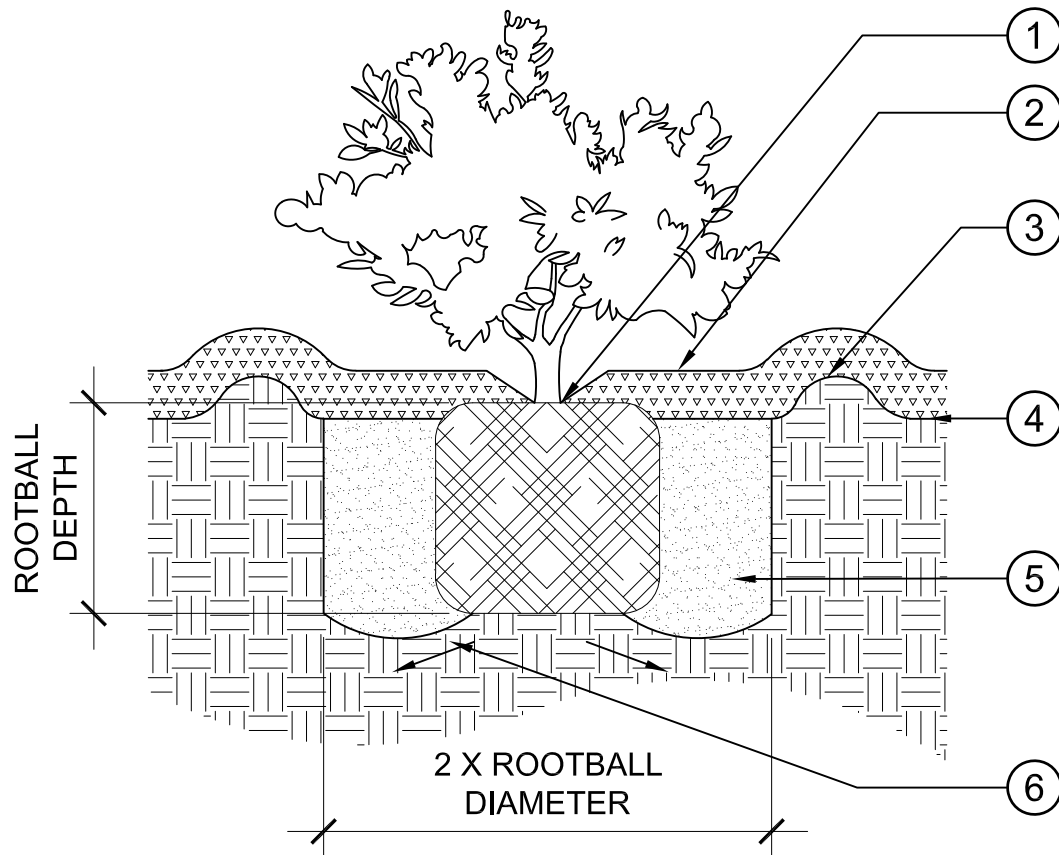
- ① 4" PVC SCH 40 PERF. PIPE WRAPPED IN FILTER SOCK. (1 PER TREE)
- ② (6) TREE TIES
- ③ SET TOP OF ROOTBALL 1" ABOVE FINISH GRADE
- ④ 3" LAYER MULCH MATERIAL, PROVIDE 3" CLEARANCE FROM TRUNK
- ⑤ 6" HIGH WATERING BERM
- ⑥ FINISH GRADE
- ⑦ (2) 2" DIAMETER STAKES, USE 3" DIA. STAKES IN HIGH WIND EXPOSURE AREAS
- ⑧ PLANTING BACKFILL
- ⑨ SLOPE PLANTING HOLE TO CORNER(S) WITH DRAIN PIPE
- ⑩ BLACK ROUND DRAIN GRATE CAP, MAX. 1" ABOVE MULCH FINISH SURFACE
- ⑪ 1 CU FT. OF 3/4" DIAMETER CRUSHED ROCK FOR 15 GAL. AND 24" BOX (2 CU FT. FOR 36" BOX)

NOTE:
STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

Scale: 1/4" = 1'-0"

PLANTING DETAIL F TREE INSTALLATION





- | | |
|--|-------------------------------------|
| ① SET TOP OF ROOTBALL
1" ABOVE FINISH GRADE | ④ FINISH GRADE |
| ② 3" LAYER MULCH MATERIAL | ⑤ PLANTING BACKFILL |
| ③ 3" HIGH WATERING BERM | ⑥ SLOPE PLANTING HOLE
TO CORNERS |

Scale: 1" = 1'-0"

PLANTING DETAIL G SHRUB INSTALLATION



Opinion of Probable Costs

PROJECT TITLE		Labor Rate: \$30.00		As of 1/18/2021		
Japanese Garden Typical Front Landscape Design		Tax Rate: 0.0775				
ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	MATERIAL COSTS TOTAL MATERIALS COST	TOTAL LABOR COST	TOTAL LABOR AND MATERIALS
Irrigation						
Valves						
Electric control valve - 1" w/ fittings	1	EA	\$47.63	\$51.32	\$60.00	\$111.32
Drip Valve Assembly- 1"	2	EA	\$66.61	\$143.54	\$180.00	\$323.54
Standard Controllers with Sensor						
Hydrawise Smart Irrigation Controller (12 station)	1	EA	\$190.90	\$205.69	\$120.00	\$325.69
Supplemental Trees Irrigation						
Deep Watering Tube Bubbler Assembly	4	EA	\$39.95	\$51.80	\$180.00	\$352.18
Supplemental Drip on Grade						
Spray to Drip Conversion Kit	3	EA	\$21.05	\$68.04	\$135.00	\$203.04
Drip Tubing Header	155	LF	\$0.20	\$33.40	\$139.50	\$172.90
In Line Drip Emitter Tubing	640	LF	\$0.50	\$344.80	\$576.00	\$920.80
Flush Valve Assembly w/ Valve Box	4	EA	\$8.82	\$38.01	\$180.00	\$218.01
Pipe at 12" Depth						
Non- Pressure Lateral Line- Class 200 3/4" with fittings.	302	LF	\$0.07	\$22.78	\$906.00	\$928.78
TOTAL IRRIGATION COSTS				959.40	2,476.50	3,556.28
Planting						
Tree Support						
Staking (8' long)	4	EA	\$3.25	\$14.01	\$33.00	\$47.01
4" Perf. PVC Tree Drain Tubes w/Drain Cap	2	EA	\$26.88	\$57.93	\$30.00	\$87.93
Ground Preparation						
Clear of Existing Landscape Area and Fine Grading	1,500	SF	\$0.00	\$0.00	\$900.00	\$900.00
Mulching (Recycled Organic)	1,355	SF	\$0.20	\$292.00	\$406.50	\$698.50
Inert Material						
Boulders	27	EA	\$45.00	\$1,309.16	\$1,215.00	\$2,524.16
Cobble	370	SF	\$0.60	\$239.21	\$111.00	\$350.21
Decomposed Granite	100	SF	\$0.45	\$48.49	\$30.00	\$78.49
Miscellaneous Items						
Wood Foot Bridge	1	EA	\$400.00	\$431.00	\$120.00	\$551.00
Japanese Lantern Sculpture	2	EA	\$79.00	\$170.25	\$30.00	\$200.25
Recirculating Fountain	1	EA	\$600.00	\$646.50	\$120.00	\$766.50
Shrubs						
Groundcover Flats (64 plants per flat)	6	EA	\$10.00	\$64.65	\$36.00	\$100.65
1 gallon shrubs	43	EA	\$5.75	\$266.41	\$34.83	\$301.24
5 gallon shrubs	4	EA	\$10.00	\$43.10	\$30.00	\$73.10
Trees						
24 " box trees- multi trunk	2	EA	\$175.00	\$377.13	\$150.00	\$527.13
TOTAL PLANTING COSTS				3,959.82	3,246.33	7,206.15
TOTAL COSTS				4,919.22	5,722.83	10,762.44
PRICE PER SQUARE FEET OF LANDSCAPE	1,500	SQ.FT.				\$7.17

TYPICAL IRRIGATION AND PLANTING COSTS

