

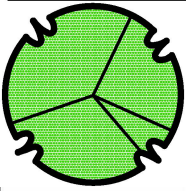











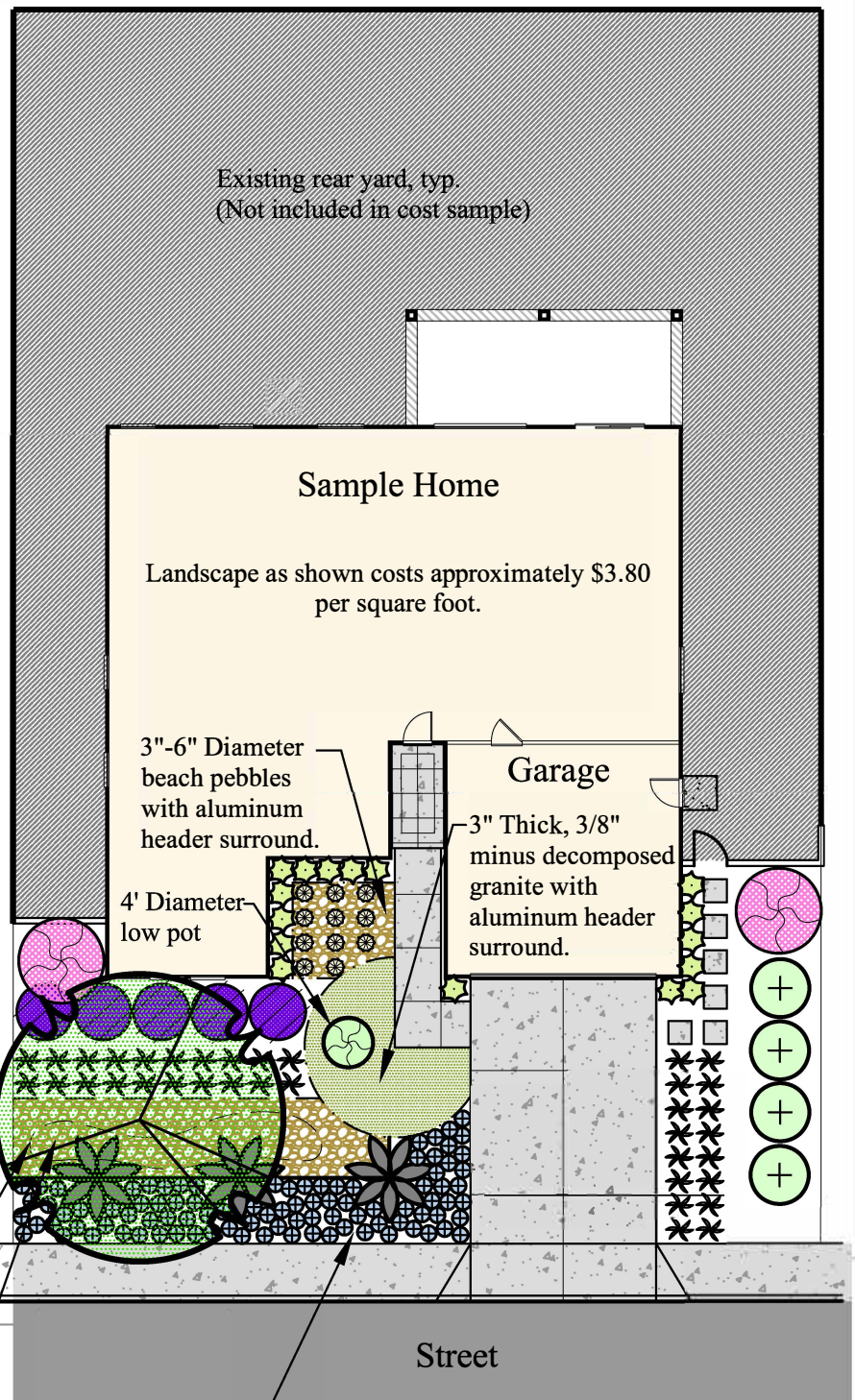
Modern Desert  
Front Yard Landscape Design

Date: 2/1/2021



**Plant Legend:**

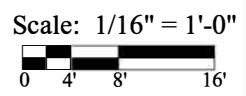
| Plan Symbol                                                                         | Common Name<br>Botanical Name<br>Container Size                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|     | Desert Museum Palo Verde<br><i>Parkinsonia X 'Desert Museum'</i><br>24" Box             |
|    | Blue Elf Aloe<br><i>Aloe 'Blue Elf'</i><br>1 Gallon                                     |
|    | Twin-Flowered Agave<br><i>Agave geminiflora</i><br>5 Gallon                             |
|    | Smooth Agave<br><i>Agave desmettiana</i><br>5 Gallon                                    |
|    | Variiegated Striped Rush<br><i>Baumea rubiginosa 'Variegata'</i><br>1 Gallon            |
|    | Red Bird of Paradise<br><i>Caesalpinia pulcherrima</i><br>5 Gallon                      |
|  | Golden Barrel Cactus<br><i>Echinocactus grusonii</i><br>8"-12" Diameter                 |
|  | Rio Bravo Sage<br><i>Leucophyllum langmaniae 'Rio Bravo'</i><br>5 Gallon                |
|  | Summer Snow Chihuahuan Sage<br><i>Leucophyllum laevigatum 'Summer Snow'</i><br>5 Gallon |
|  | Blue Chalksticks<br><i>Senecio serpens</i><br>1 Gallon                                  |



6" Deep rain water retention basin.

3"-6" Diameter beach pebbles with aluminum header surround.


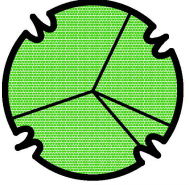










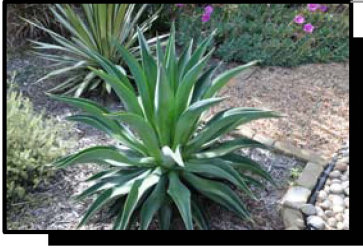





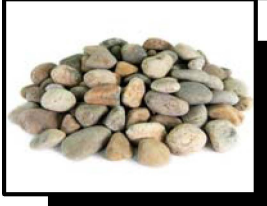


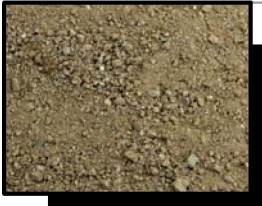
3" - 4" Layer of organic bark mulch over all non-cobble or decomposed granite areas, typ.



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

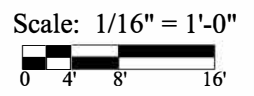
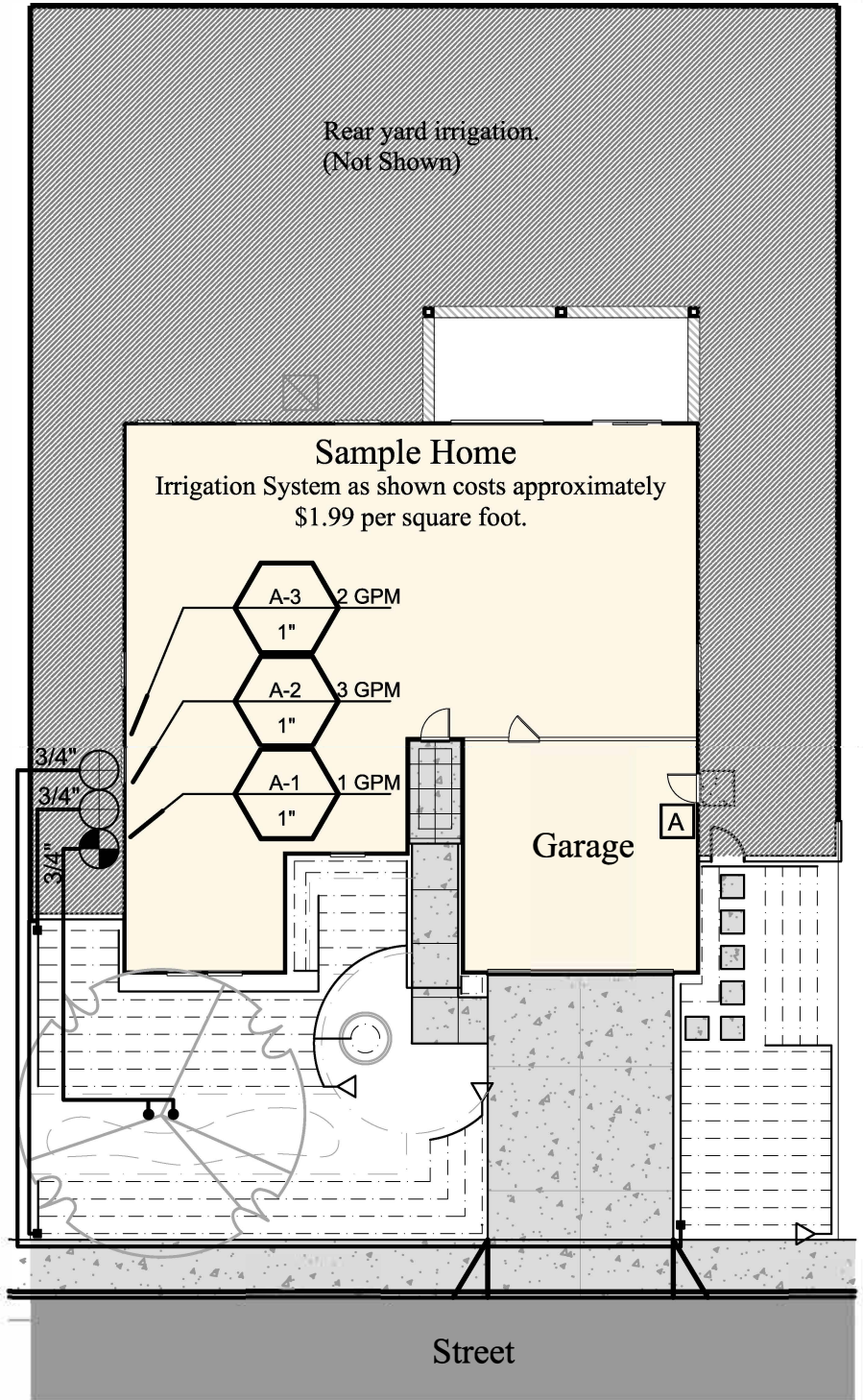
| Plant Image                                                                        | Plan Symbol                                                                         | Common Name<br>Botanical Name<br>Container Size                                | Plant Image                                                                                                             | Plan Symbol                                                                           | Common Name<br>Botanical Name<br>Container Size                                               |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|    |    | Desert Museum Palo Verde<br><i>Parkinsonia X 'Desert Museum'</i><br>24" Box    |                                       |    | Golden Barrel Cactus<br><i>Echinocactus grusonii</i><br>8"-12" Diameter                       |
|    |    | Blue Elf Aloe<br><i>Aloe 'Blue Elf'</i><br>1 Gallon                            |                                       |    | Rio Bravo Sage<br><i>Leucophyllum langmaniae</i><br>'Rio Bravo'<br>5 Gallon                   |
|   |    | Twin-Flowered Agave<br><i>Agave geminiflora</i><br>5 Gallon                    |                                       |    | Summer Snow<br>Chihuahuan Sage<br><i>Leucophyllum laevigatum</i><br>'Summer Snow'<br>5 Gallon |
|  |  | Smooth Agave<br><i>Agave desmettiana</i><br>5 Gallon                           |                                     |  | Blue Chalksticks<br><i>Senecio serpens</i><br>1 Gallon                                        |
|  |  | Variegated Striped Rush<br><i>Baumea rubiginosa</i><br>'Variegata'<br>1 Gallon |         |                                                                                       | 3"-5" Beach Pebbles                                                                           |
|  |  | Red Bird of Paradise<br><i>Caesalpinia pulcherrima</i><br>5 Gallon             |  |                                                                                       | 3/8" Minus<br>Decomposed Granite                                                              |

# PLANTING LEGEND



**Irrigation Legend:**







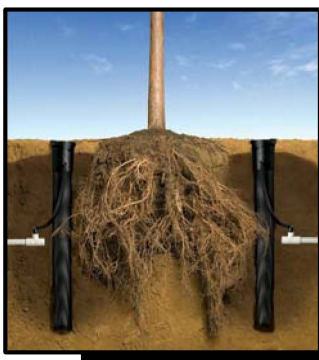


| Plan Symbol                                                                        | Description                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Smart Irrigation Controller</b><br>Replace existing irrigation controller with new smart controller. Install per manufacturers instructions.                                                                                                                |
|    | <b>Anti-syphon Valve Drip Zone Assembly</b><br>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.                                            |
|    | <b>Electric Remote Control Anti-syphon Valve</b><br>Replace existing irrigation valves if existing valves are leaking, damaged or not properly working. See detail B.                                                                                          |
|    | <b>Tree Deep Watering Bubbler</b><br>Install 2 deep watering bubblers per tree. install per manufacturers instructions. See detail C.                                                                                                                          |
|    | <b>Spray to Drip Retrofit Kit</b><br>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. |
|    | <b>17mm (5/8") Polyethylene Distribution Tubing</b><br>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.               |
|  | <b>17mm (5/8") In-Line Emitter Polyethylene Tubing</b><br>Install 0.6 gallon per hour drip line at 18" row spacing in all planted areas. See detail D.                                                                                                         |
|  | <b>Drip Flush Valve</b><br>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.                                                         |
|  | <b>PVC Schedule 40 Piping &amp; Fittings</b><br>Install PVC pipe if existing irrigation piping is damaged or not usable.                                                                                                                                       |



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.

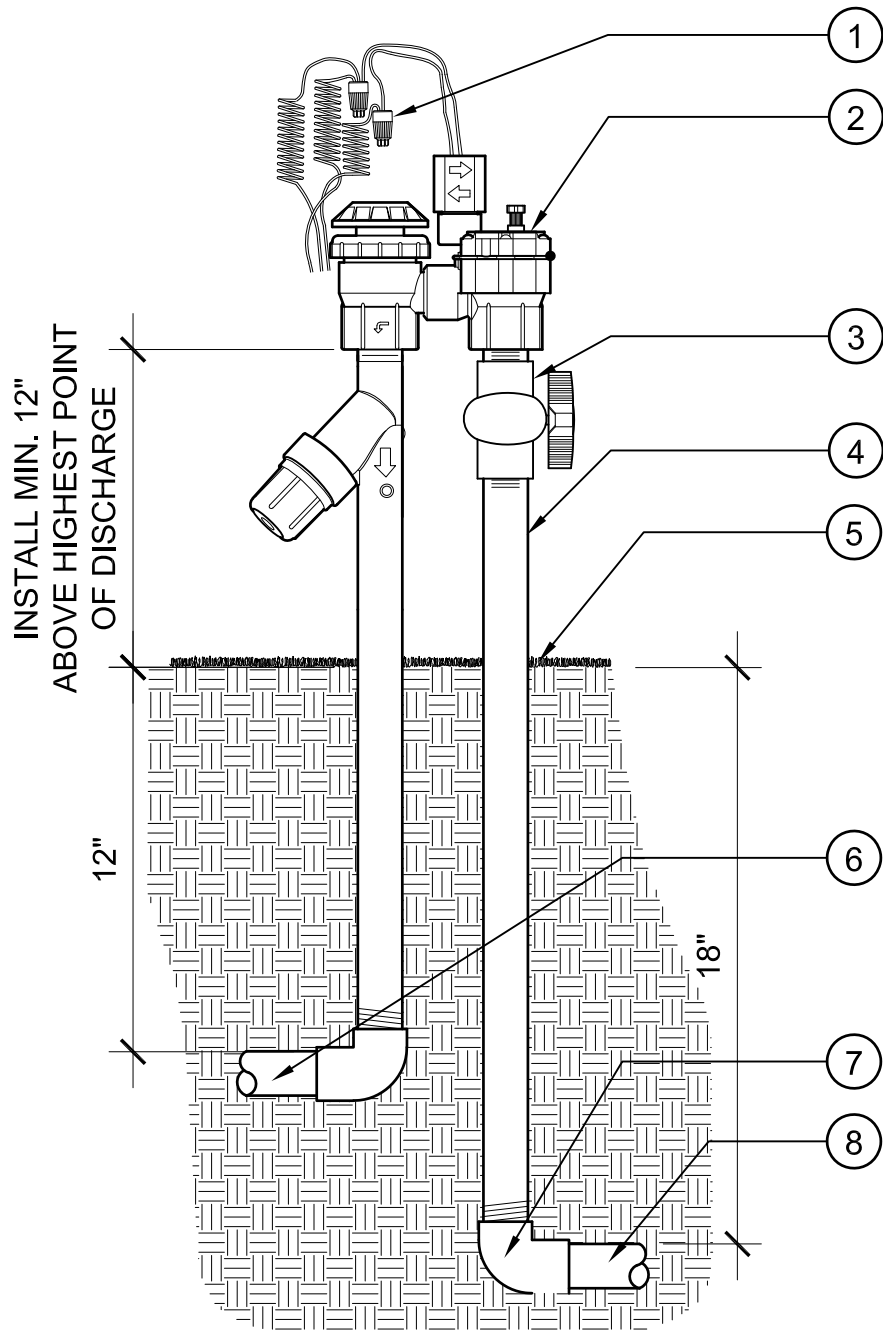


# IRRIGATION CONCEPT PLAN

| Equipment Image                                                                    | Plan Symbol | Description                                                                                                                                                                                                                                                    | Equipment Image                                                                     | Plan Symbol | Description                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <b>A</b>    | <u>Smart Irrigation Controller</u><br>Replace existing irrigation controller with new smart controller. Install per manufacturers instructions.                                                                                                                |   | —           | <u>17mm (5/8") Polyethylene Distribution Tubing</u><br>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><br>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><br>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><br>Replace existing irrigation valves if existing valves are leaking, damaged or not properly working. See detail B.                                                                                          |   | ▷           | <u>Drip Flush Valve</u><br>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><br>Install 2 deep watering bubblers per tree. install per manufacturers instructions. See detail C.                                                                                                                          |  | —           | <u>PVC Schedule 40 Piping &amp; Fittings</u><br>Install PVC pipe if existing irrigation piping is damaged or not usable.                                                                                                                         |
|  | ■           | <u>Spray to Drip Retrofit Kit</u><br>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





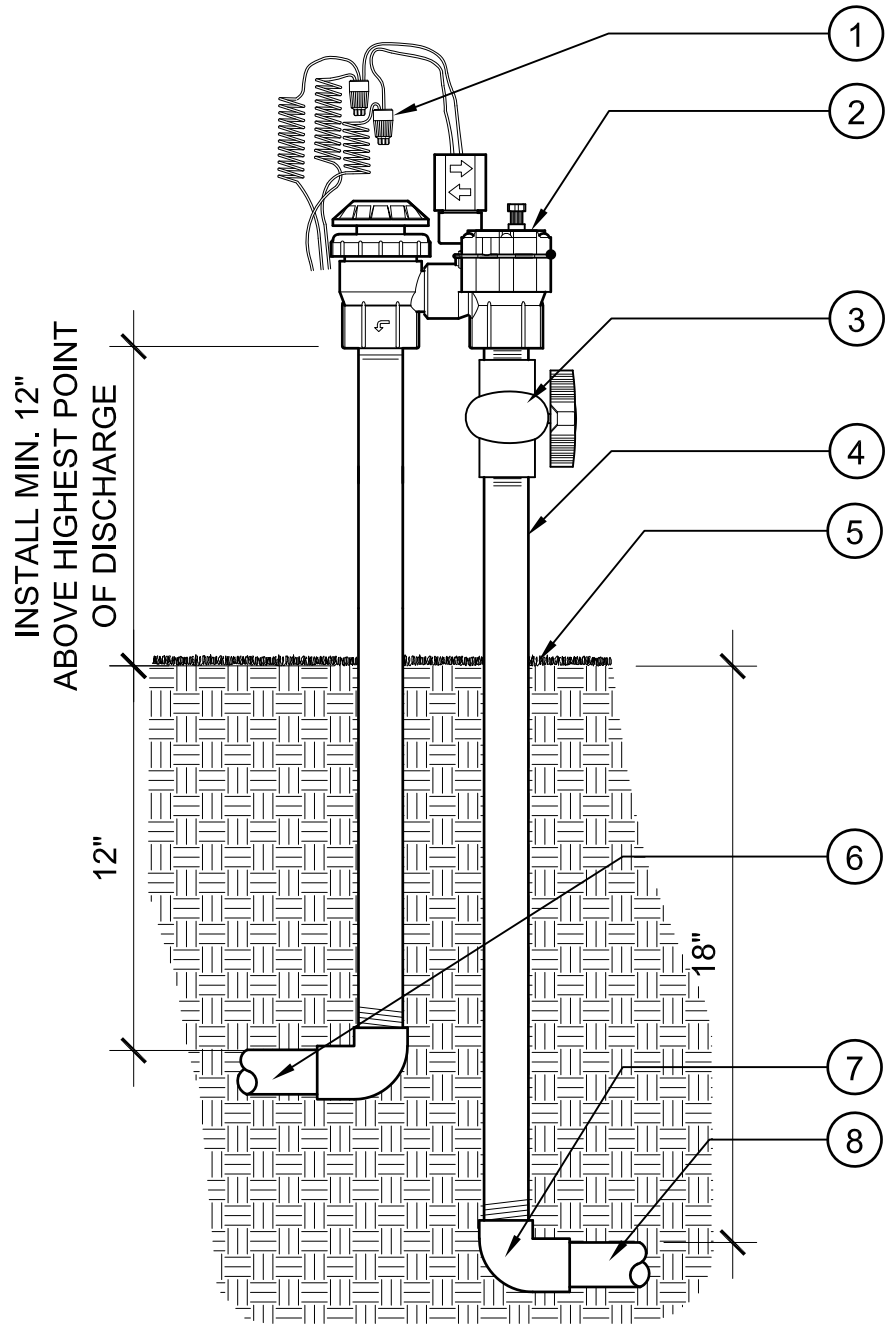
- |                                                                   |                                 |
|-------------------------------------------------------------------|---------------------------------|
| ① CONNECT WIRES TO VALVE USING WATER TIGHT CONNECTORS (SEE NOTES) | ⑥ LATERAL LINE                  |
| 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

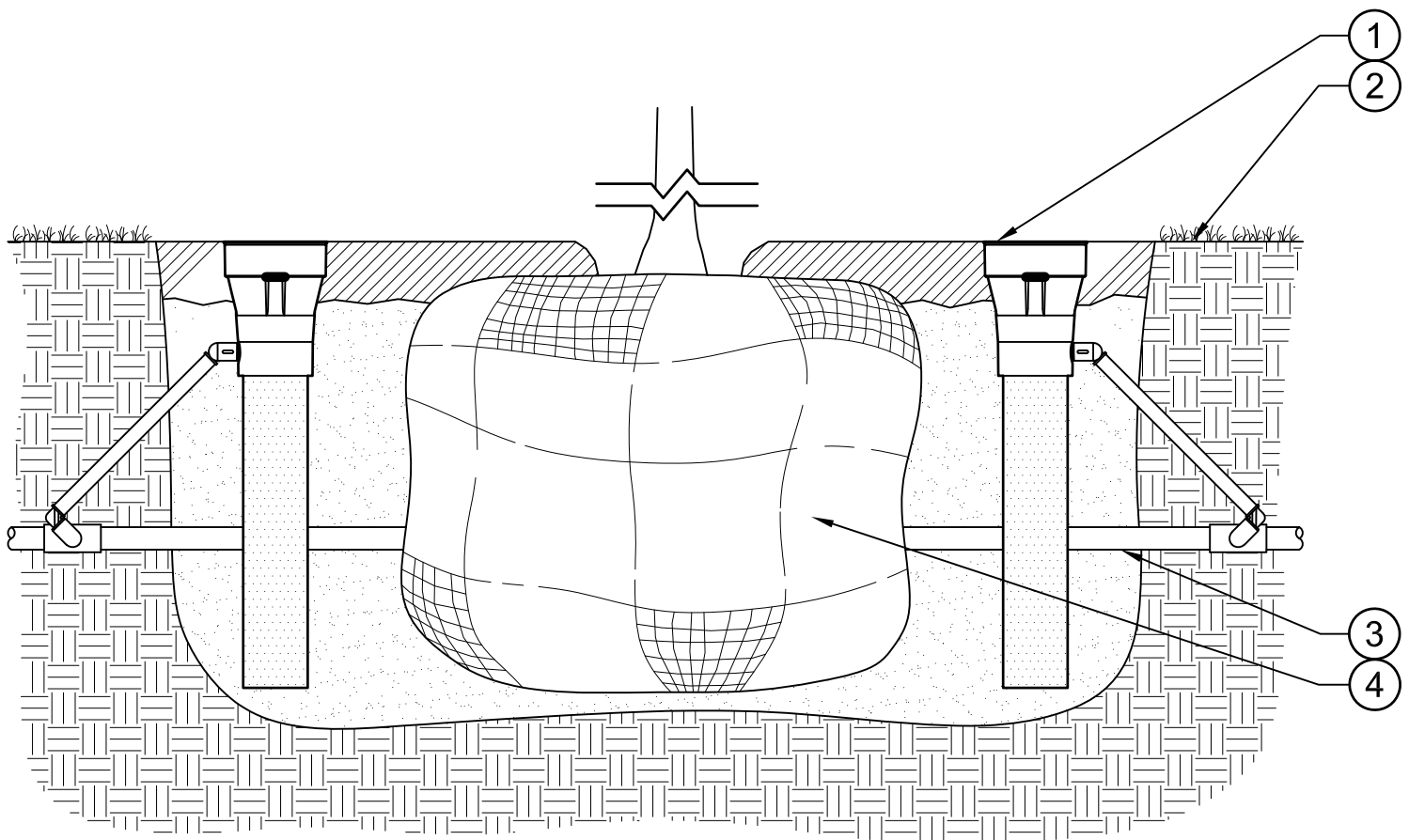
- ⑥ LATERAL LINE
- ⑦ FIPT X SLIP ELBOW (LINE SIZE)
- ⑧ PRESSURE SUPPLY LINE

# IRRIGATION DETAIL B

## ELECTRIC REMOTE CONTROL VALVE

Scale: 1" = 1'-0"





- 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.

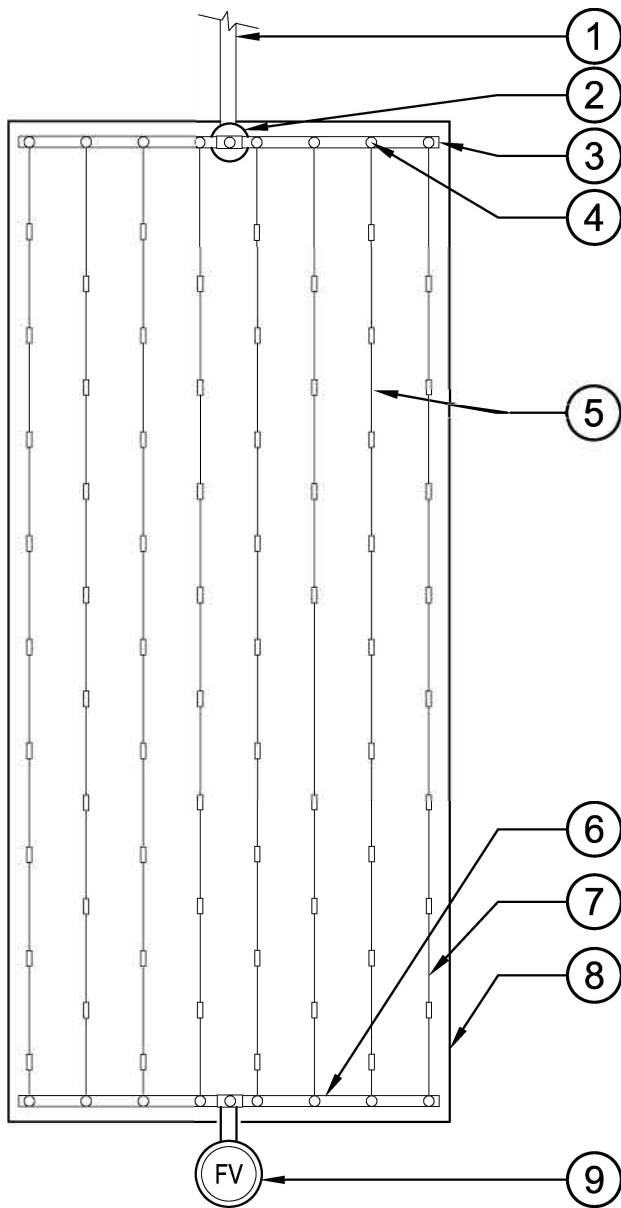
Scale: Not to Scale

# 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:**

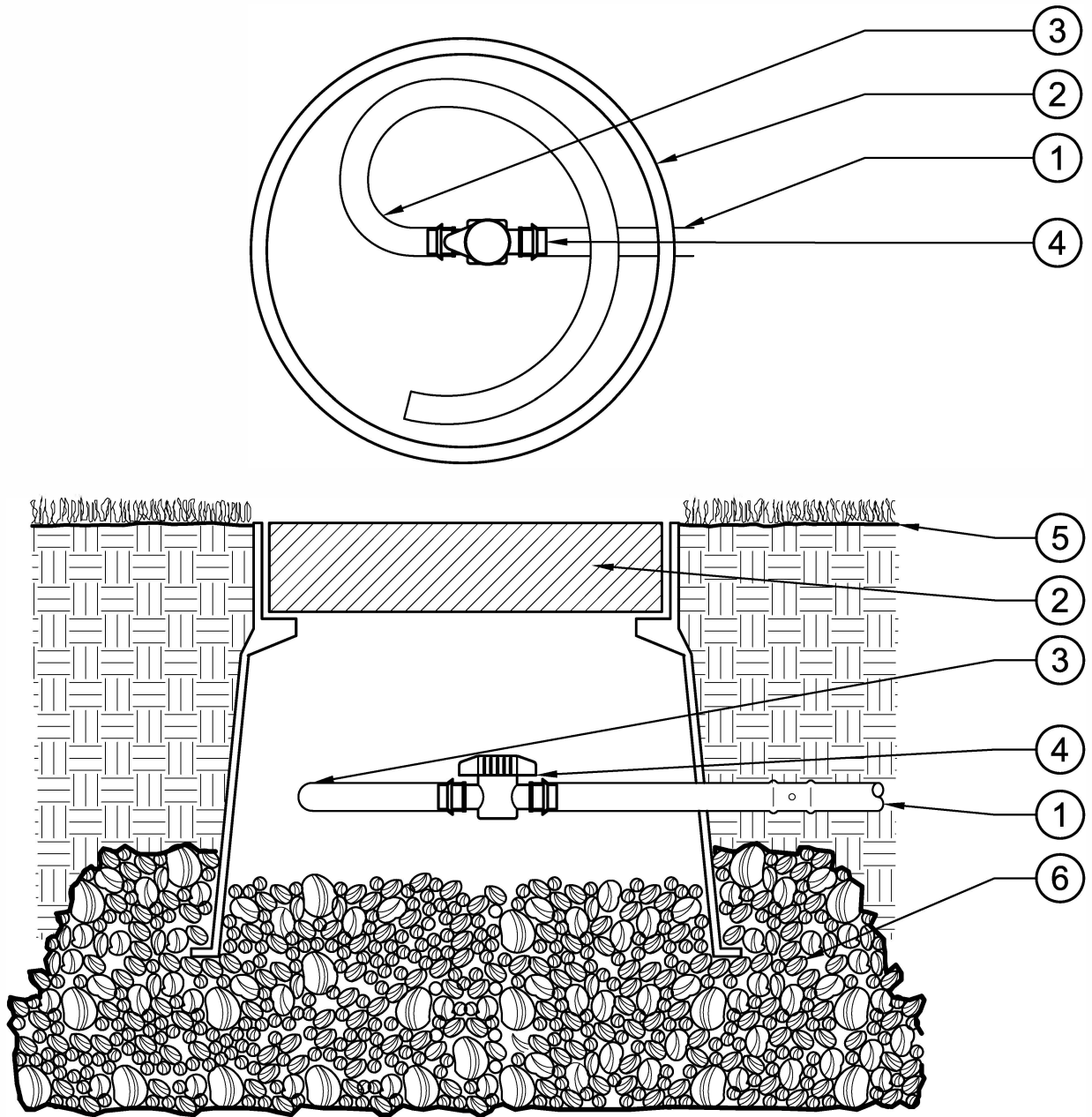
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH PER MANUFACTURER'S SPECIFICATIONS.
3. ALL TUBING SHALL BE STAKED DOWN EVERY 36" USING DRIP TUBING STAPLES OR STAKES.
4. IT IS RECOMMENDED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

Scale: Not to Scale

# IRRIGATION DETAIL D

## EMITTER TUBING LAYOUT





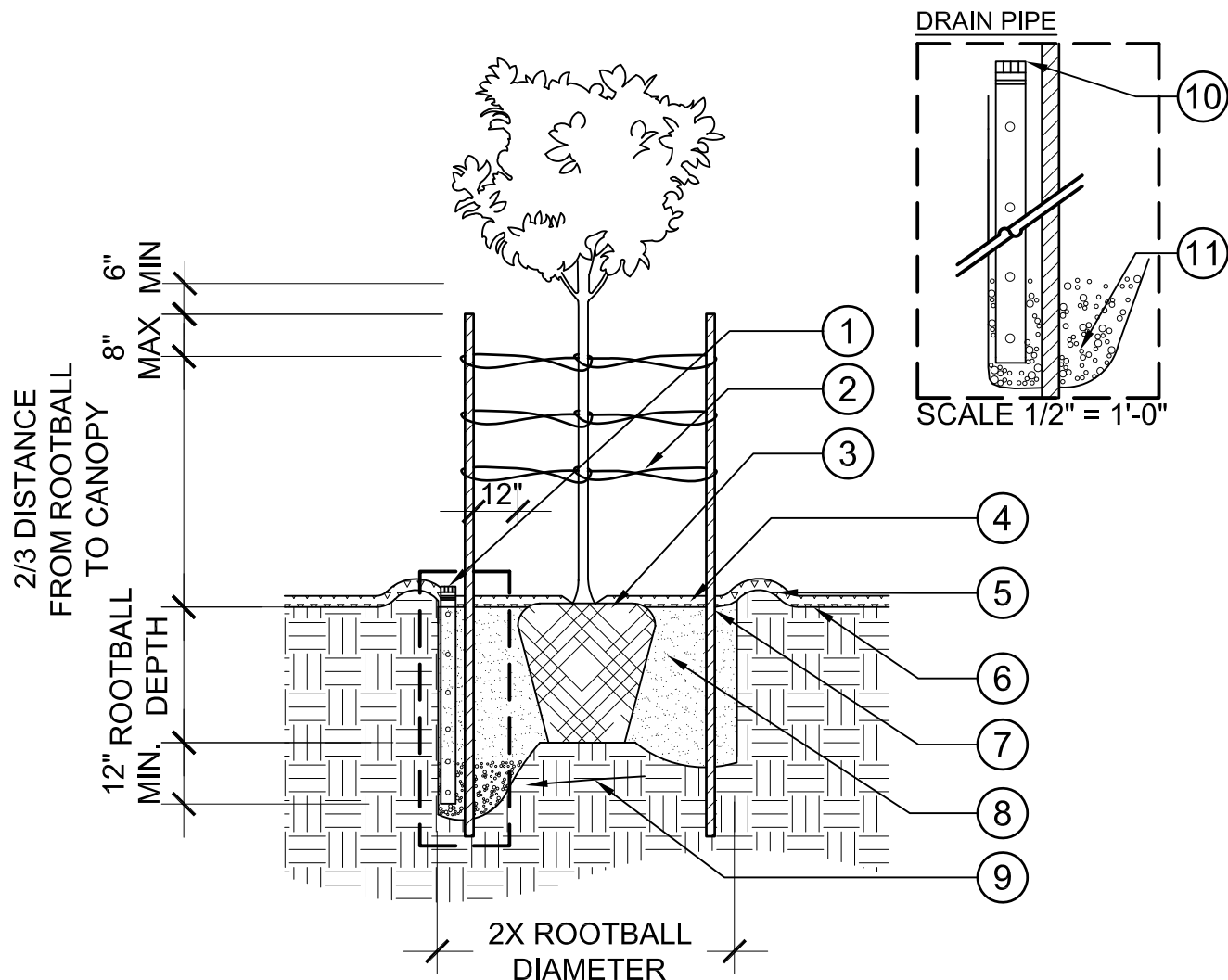
- ① 17mm EMITTER DRIP LINE TUBING
- ② 6" - 8" ROUND VALVE BOX  
CUT HOLE FOR TUBING
- ③ 18" LENGTH OF 17mm DRIP  
DISTRIBUTION TUBING
- ④ DRIP TUBING ISOLATION BALL VALVE
- ⑤ FINISH GRADE
- ⑥ 3/4" GRAVEL SUMP IN, UNDER AND AROUND  
VALVE BOX

Scale: 3" = 1'-0"



# IRRIGATION DETAIL E

## MANUAL FLUSH VALVE



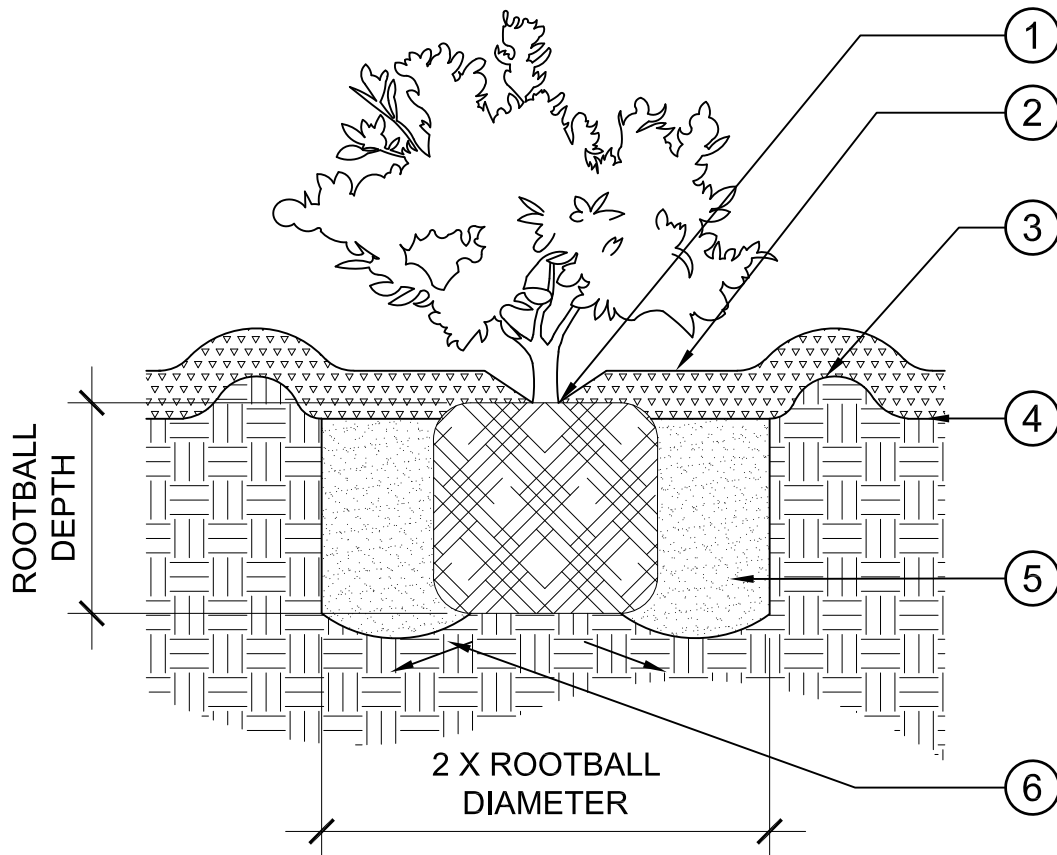
- ① 4" PVC SCH 40 PERF. PIPE WRAPPED IN FILTER SOCK. (1 PER TREE)
- ② (6) TREE TIES
- ③ SET TOP OF ROOTBALL 1" ABOVE FINISH GRADE
- ④ 3" LAYER MULCH MATERIAL, PROVIDE 3" CLEARANCE FROM TRUNK
- ⑤ 6" HIGH WATERING BERM
- ⑥ FINISH GRADE
- ⑦ (2) 2" DIAMETER STAKES, USE 3" DIA. STAKES IN HIGH WIND EXPOSURE 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<br>1" ABOVE FINISH GRADE | ④ FINISH GRADE                      |
| ② 3" LAYER MULCH MATERIAL                      | ⑤ PLANTING BACKFILL                 |
| ③ 3" HIGH WATERING BERM                        | ⑥ SLOPE PLANTING HOLE<br>TO CORNERS |

# PLANTING DETAIL G SHRUB INSTALLATION

Scale: 1" = 1'-0"



**Opinion of Probable Costs**

| PROJECT TITLE                                             |          | Labor Rate: | \$30.00   |                      |                  |                           |
|-----------------------------------------------------------|----------|-------------|-----------|----------------------|------------------|---------------------------|
| Modern Desert Typical Front Landscape Design              |          | Tax Rate:   | 0.0775    | As of 1/18/2021      |                  |                           |
| ITEM DESCRIPTION                                          | QUANTITY | UNIT        | UNIT COST | TOTAL MATERIALS COST | TOTAL LABOR COST | TOTAL LABOR AND MATERIALS |
| <b>Irrigation</b>                                         |          |             |           |                      |                  |                           |
| <b>Valves</b>                                             |          |             |           |                      |                  |                           |
| 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                  |
| <b>Standard Controllers with Sensor</b>                   |          |             |           |                      |                  |                           |
| Hydrawise Smart Irrigation Controller (12 station)        | 1        | EA          | \$190.90  | \$205.69             | \$120.00         | \$325.69                  |
| <b>Supplemental Trees Irrigation</b>                      |          |             |           |                      |                  |                           |
| Deep Watering Tube Bubbler Assembly                       | 2        | EA          | \$39.95   | \$51.80              | \$90.00          | \$176.09                  |
| <b>Supplemental Drip on Grade</b>                         |          |             |           |                      |                  |                           |
| Spray to Drip Conversion Kit                              | 3        | EA          | \$21.05   | \$68.04              | \$135.00         | \$203.04                  |
| Drip Tubing Header                                        | 150      | LF          | \$0.20    | \$32.33              | \$135.00         | \$167.33                  |
| In Line Drip Emitter Tubing                               | 660      | LF          | \$0.50    | \$355.58             | \$594.00         | \$949.58                  |
| Flush Valve Assembly w/ Valve Box                         | 3        | EA          | \$8.82    | \$28.51              | \$135.00         | \$163.51                  |
| <b>Pipe at 12" Depth</b>                                  |          |             |           |                      |                  |                           |
| Non- Pressure Lateral Line- Class 200 3/4" with fittings. | 185      | LF          | \$0.07    | \$13.95              | \$555.00         | \$568.95                  |
| <b>TOTAL IRRIGATION COSTS</b>                             |          |             |           | 950.77               | 2,004.00         | 2,989.06                  |
| <b>Planting</b>                                           |          |             |           |                      |                  |                           |
| <b>Tree Support</b>                                       |          |             |           |                      |                  |                           |
| Staking (8' long)                                         | 2        | EA          | \$3.25    | \$7.00               | \$16.50          | \$23.50                   |
| 4" Perf. PVC Tree Drain Tubes w/Drain Cap                 | 1        | EA          | \$26.88   | \$28.96              | \$15.00          | \$43.96                   |
| <b>Ground Preparation</b>                                 |          |             |           |                      |                  |                           |
| Clear of Existing Landscape Area and Fine Grading         | 1,500    | SF          | \$0.00    | \$0.00               | \$900.00         | \$900.00                  |
| <b>Inert Material</b>                                     |          |             |           |                      |                  |                           |
| Cobble                                                    | 280      | SF          | \$0.60    | \$181.02             | \$84.00          | \$265.02                  |
| Decomposed Granite                                        | 1,220    | SF          | \$0.45    | \$591.55             | \$366.00         | \$957.55                  |
| <b>Miscellaneous Items</b>                                |          |             |           |                      |                  |                           |
| Aluminum Header                                           | 120      | LF          | \$1.00    | \$129.30             | \$299.99         | \$429.29                  |
| Pots                                                      | 1        | EA          | \$200.00  | \$215.50             | \$15.00          | \$230.50                  |
| <b>Shrubs</b>                                             |          |             |           |                      |                  |                           |
| 1 gallon shrubs                                           | 146      | EA          | \$5.75    | \$904.56             | \$438.00         | \$1,342.56                |
| 5 gallon shrubs                                           | 15       | EA          | \$10.00   | \$161.63             | \$112.50         | \$274.13                  |
| 12" Golden Barrel                                         | 11       | EA          | \$75.00   | \$888.94             | \$82.50          | \$971.44                  |
| <b>Trees</b>                                              |          |             |           |                      |                  |                           |
| 24 " box trees- multi trunk                               | 1        | EA          | \$175.00  | \$188.56             | \$75.00          | \$263.56                  |
| <b>TOTAL PLANTING COSTS</b>                               |          |             |           | 3,297.02             | 2,404.49         | 5,701.51                  |
| <b>TOTAL COSTS</b>                                        |          |             |           | 4,247.79             | 4,408.49         | 8,690.57                  |
| PRICE PER SQUARE FEET OF LANDSCAPE                        | 1,500    | SQ.FT.      |           |                      |                  | \$5.79                    |

# TYPICAL IRRIGATION AND PLANTING COSTS

