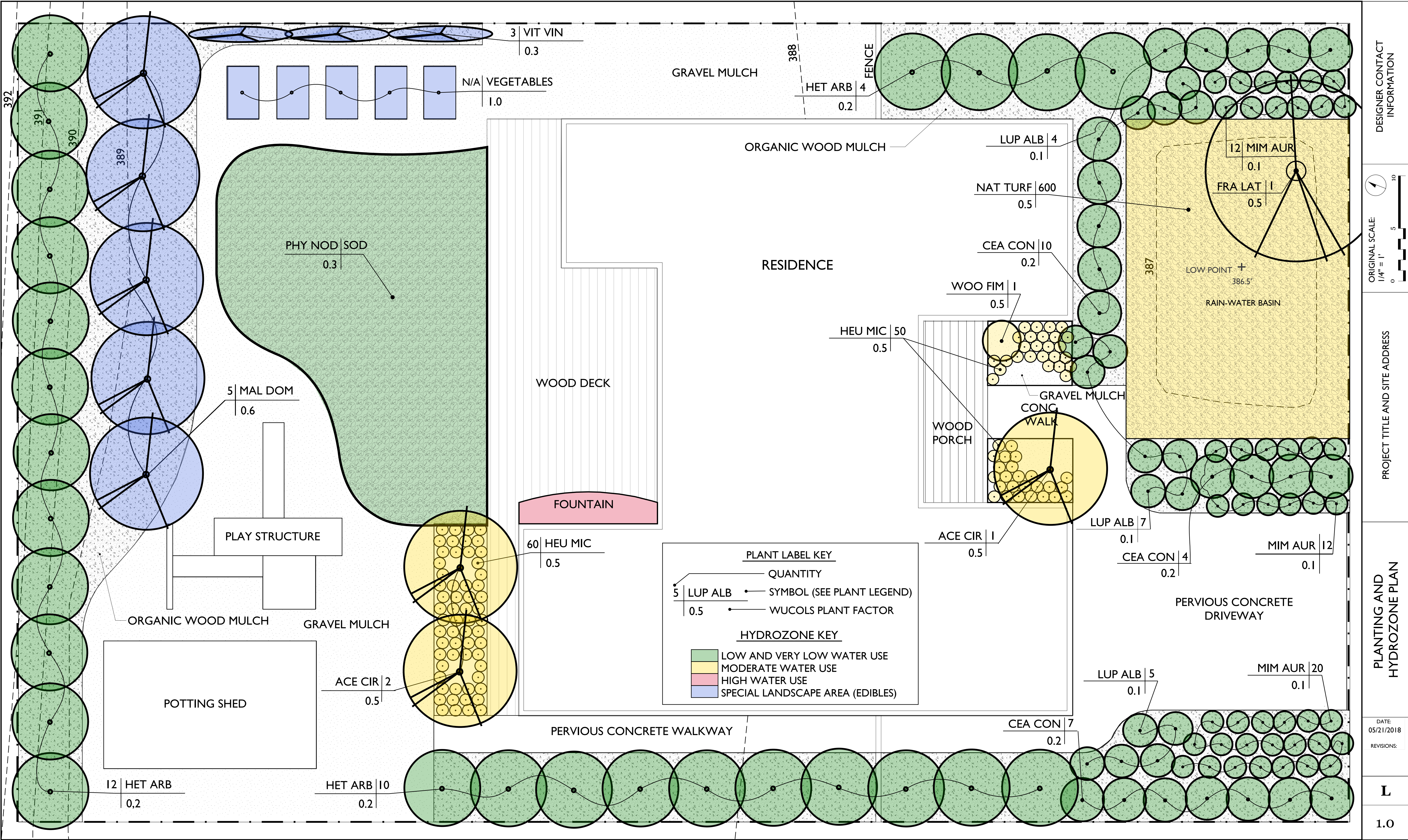


SAMPLE WATER EFFICIENT RESIDENTIAL LANDSCAPE PLANS

The following sample set of landscape plans meets the minimum requirements of the Model Water Efficient Landscape Ordinance (MWELO) as enforced by the East Bay Municipal Utility District. Contact your local City or County planning office for its landscape design and installation requirements.



SAMPLE PLANT LEGEND
(BOTANICAL NAME AND WATER USE DESIGNATION REQUIRED)

| SYMBOL | BOTANICAL NAME | COMMON NAME | QUANTITY | SIZE | NOTES | WUCOLS |
|---------------|--|---------------------|----------|---------|------------------------------|--------|
| TREES: | | | | | | |
| ACE CIR | ACER CIRCINATUM | VINE MAPLE | 3 | 15 GAL. | NATIVE, MULTI-STEM | M |
| FRA LAT | FRAXINUS LATIFOLIA | OREGON ASH | 1 | 24" BOX | NATIVE, STANDARD | M |
| MAL DOM | MALUS DOMESTICA 'FUJI' | FUJI APPLE | 4 | 15 GAL. | EDIBLE, STANDARD | M |
| SHRUBS: | | | | | | |
| CEA CON | CEANOTHUS CONCHA | MOUNTAIN LILAC | 20 | 5 GAL. | NATIVE, REDUCED SUMMER WATER | L |
| HET ARB | HETEROMELES ALBUTIFOLIA | TOYON | 16 | 5 GAL. | NATIVE, REDUCED SUMMER WATER | L |
| LUP ALB | LUPINUS ALBIFRONS | SILVER BUSH LUPINE | 17 | 1 GAL. | NATIVE, REDUCED SUMMER WATER | VL |
| | | STICKY MONKEY | | | | |
| MIM AUR | MIMULUS AURANTIACUS | FLOWER | 29 | 1 GAL. | NATIVE, REDUCED SUMMER WATER | VL |
| VIT VIN | VITIS CALIFORNICA 'RODGER'S RED' | WILD GRAPE | 3 | 1 GAL. | NATIVE HYBRID | L |
| WOO FIM | WOODWARDIA FIMBRIATA | GIANT CHAIN FERN | 1 | 5 GAL. | NATIVE | M |
| GROUNDCOVERS: | | | | | | |
| HEU MAX | HEUCHERA MICRANTHA | CREVICE ALUM ROOT | 110 | 4 INCH | NATIVE | M |
| PHY NOD | PHYLA NODIFLORA | KURAPIA | 675 SF | SOD | NATIVE CULTIVAR | L |
| NAT TURF | F.OCCIDENTALLIS, F. RUBRA, F. IDAHOENSIS | NATIVE FESCUE BLEND | 600 SF | SOD | NATIVE | L |

SAMPLE NOTES
(REQUIRED MEASURES)

PLANTING

- 1) TURF IS LIMITED TO 25 PERCENT OF THE TOTAL IRRIGATED AREA (EXCEPT WHERE NON-RESIDENTIAL PLAY FIELDS ARE A PROGRAM REQUIREMENT) AND NOT PLANTED ON AREAS SLOPING MORE THAN 25 PERCENT.
- 2) PLANTINGS MUST BE GROUPED INTO HYDROZONES BASED ON MICROCLIMATE, SOIL TYPE, PLANT TYPE, AND WATER USE CLASSIFICATION (SEE WUCOLS: WWW.UCNR.EDU/SITES/WUCOLS/).

IRRIGATION

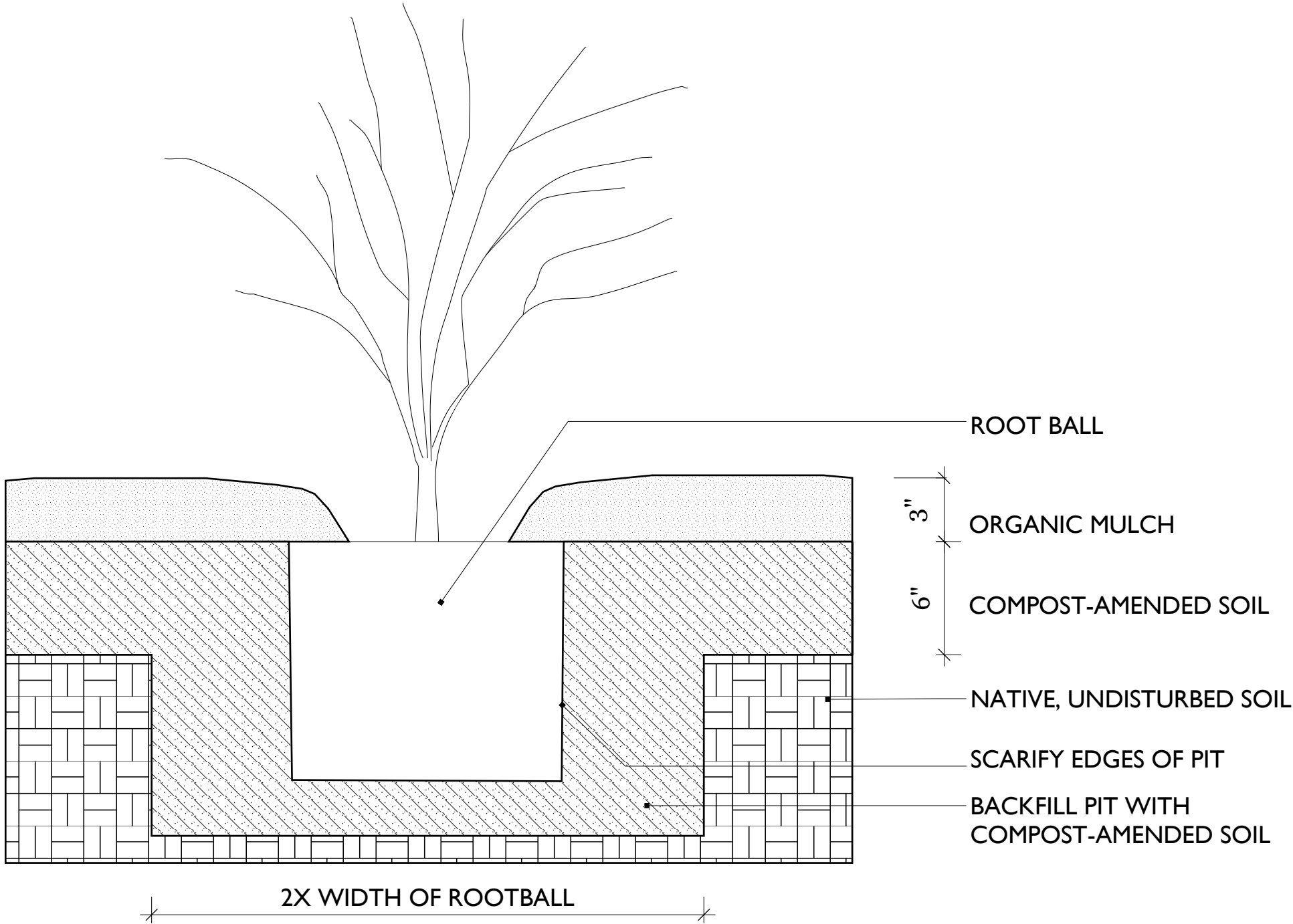
- 3) PRECIPITATION RATES MUST BE UNIFORM ACROSS EACH ZONE.
- 4) EMITTERS MUST BE FIXED RATE AND OF THE SAME TYPE WITHIN A ZONE. NO VARIABLE OR ADJUSTABLE FLOW RATE EMITTERS ARE ALLOWED. MIXING EMITTERS WITHIN A ZONE IS NOT ALLOWED.
- 5) OVERHEAD SPRAY IS NOT ALLOWED IN AREAS LESS THAN TEN FEET ACROSS IN ANY DIMENSION.
- 6) OVERHEAD SPRAY NOZZELS MUST BE SET BACK A MINIMUM OF TWO FEET FROM ADJACENT IMPERVIOUS SURFACES.

COMPOST

- 7) INCORPORATE COMPOST AT A RATE OF FOUR (4) CUBIC YARDS PER 1,000 SQUARE FEET INTO THE TOP SIX (6) INCHES OF SOIL OR COMPOST PER HORITCULTURAL SOIL REPORT RECOMMENDATIONS.

MULCH

- 8) APPLY ORGANIC MULCH TO A MINIMUM DEPTH OF THREE (3) INCHES ON ALL EXPOSED SOIL IN THE PLANTED AREA EXCEPT WHERE CONTRAINDICATED.



SAMPLE PLANTING DETAIL

NOT TO SCALE

DESIGNER CONTACT
INFORMATION

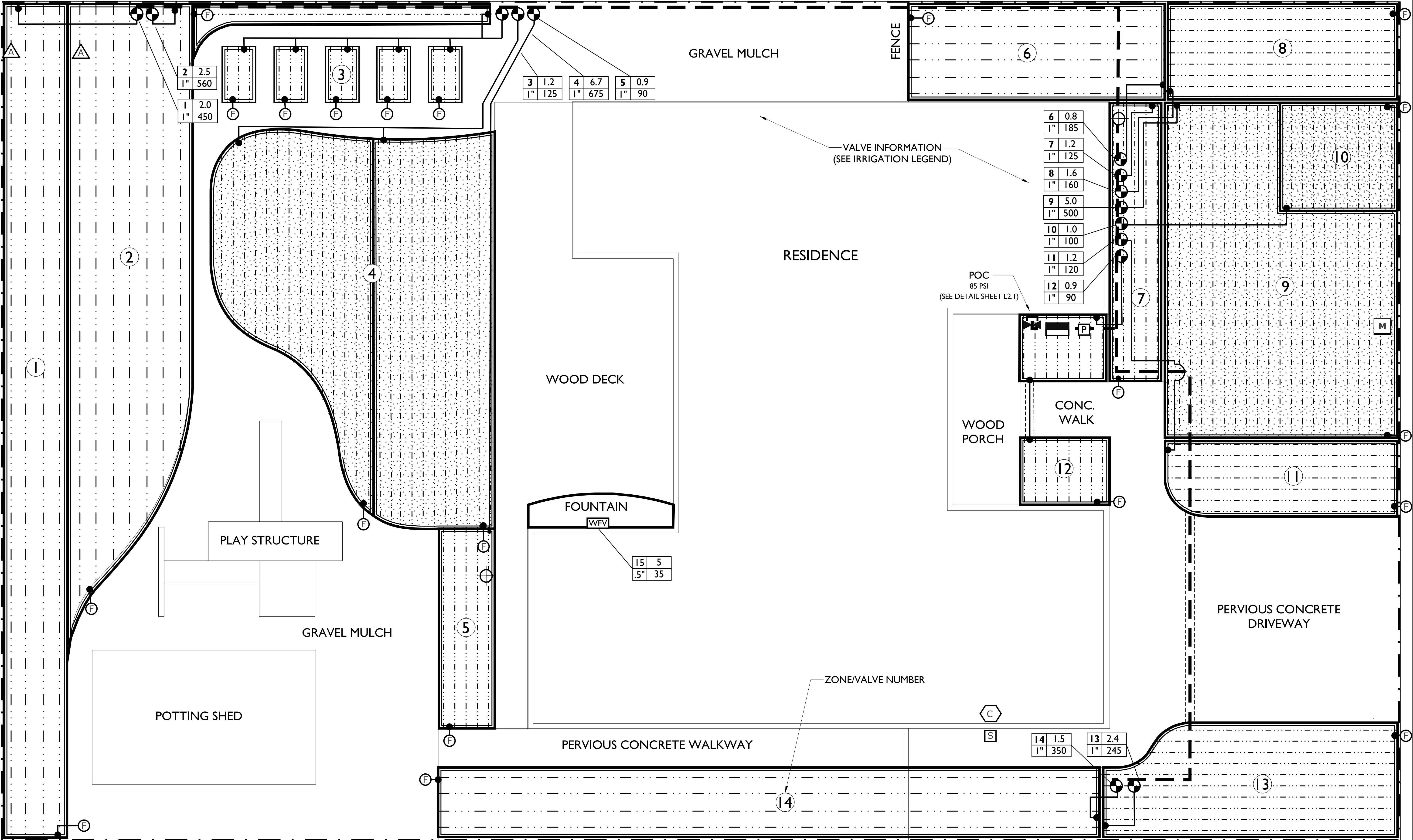
PROJECT TITLE AND SITE ADDRESS

PLANT LEGEND, NOTES
AND DETAILS

DATE:
05/21/2018
REVISIONS:

L

1.1



DESIGNER CONTACT
INFORMATION

ORIGINAL SCALE:
1/4" = 1'
0 5 10

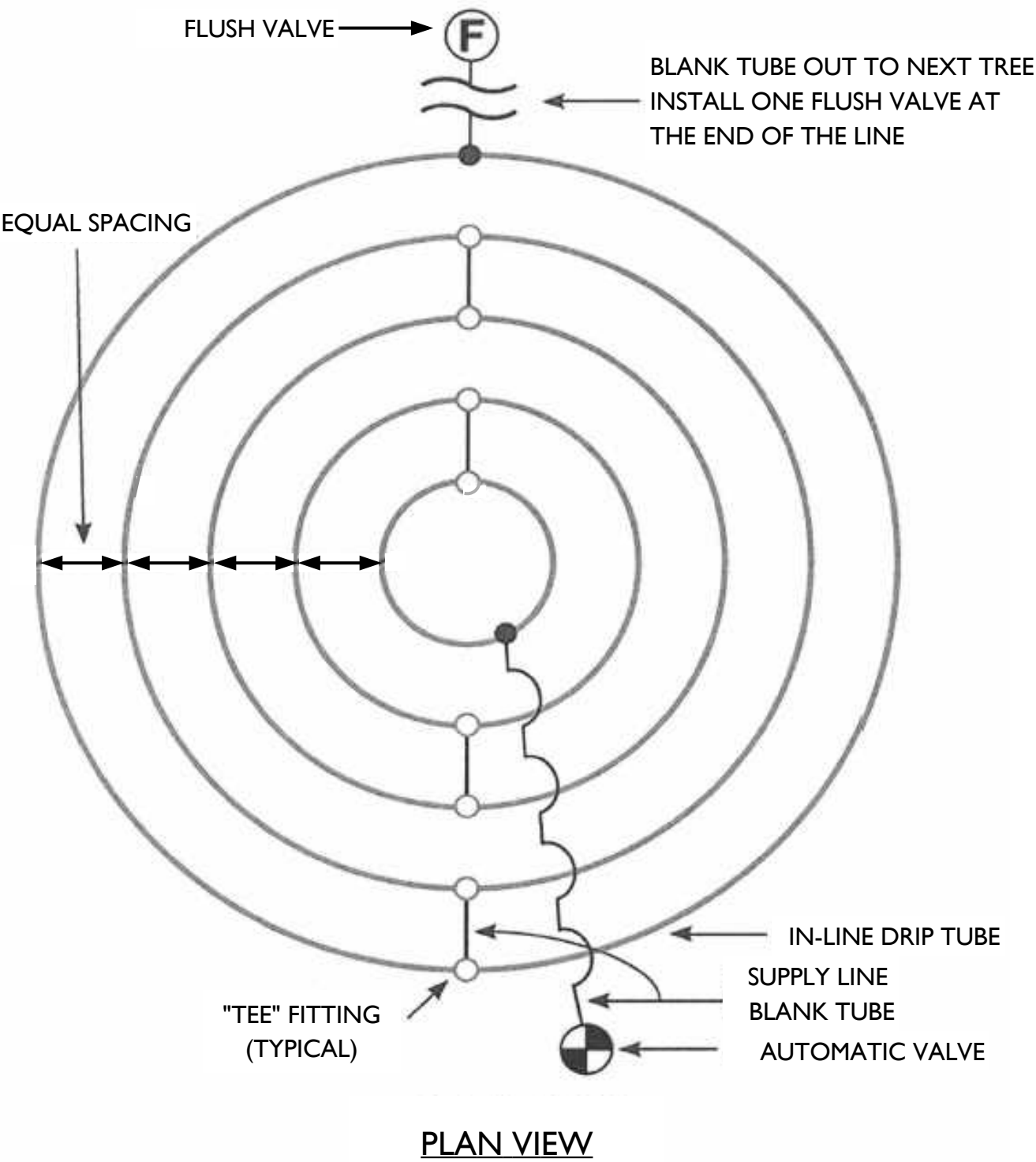
PROJECT TITLE AND SITE ADDRESS

IRRIGATION PLAN

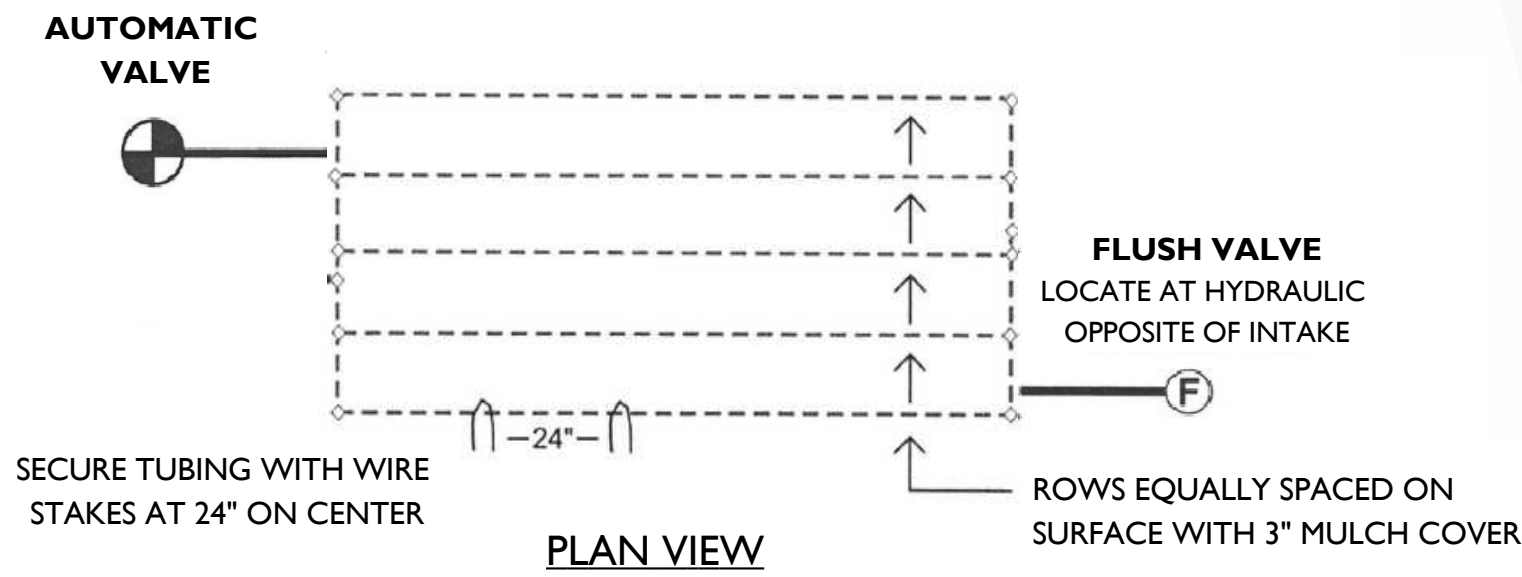
DATE:
05/21/2018
REVISIONS:

L
2.0

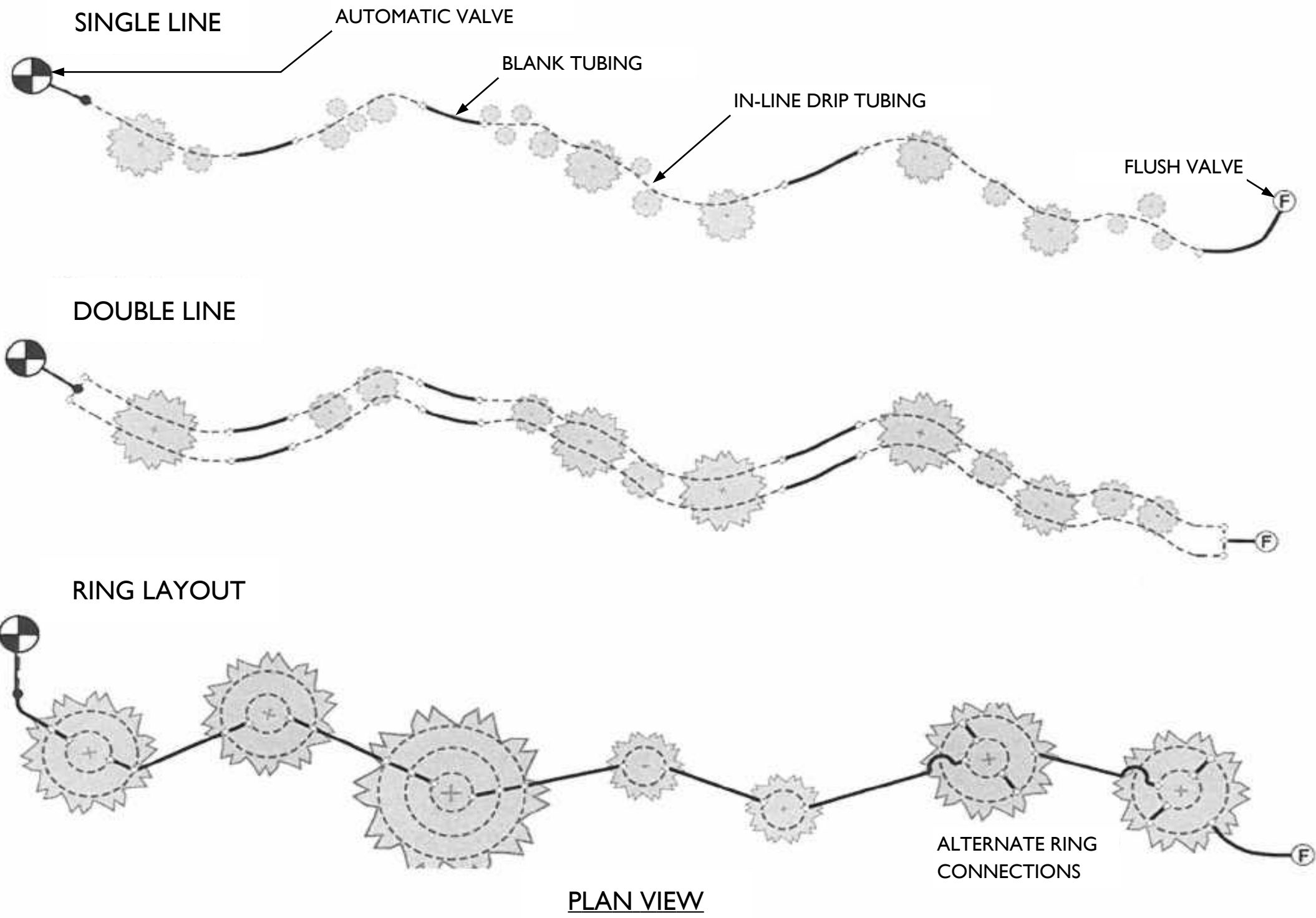
SAMPLE DRIP IRRIGATION DETAILS



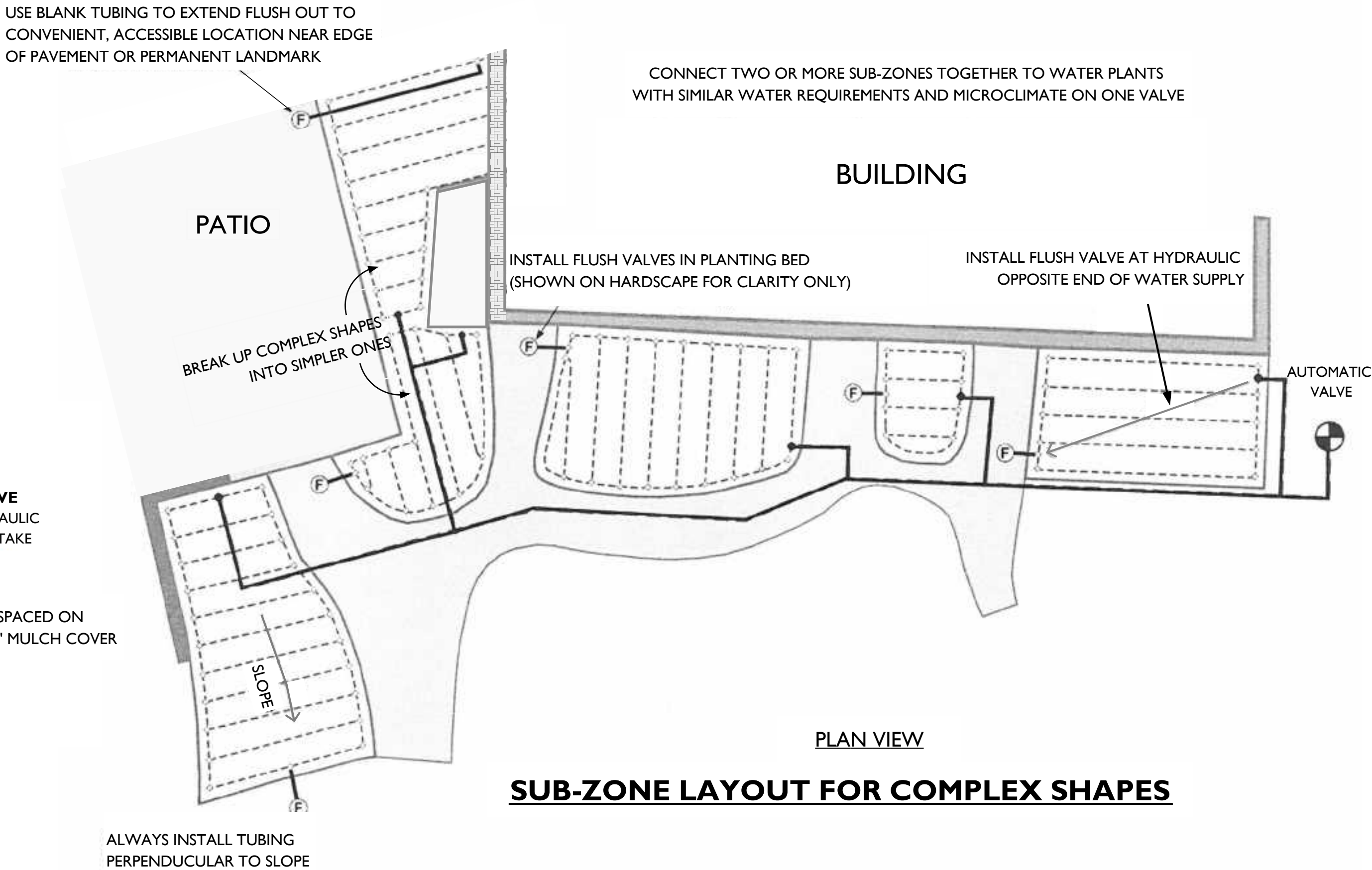
IN-LINE DRIP RING LAYOUT



IN-LINE DRIP TUBING ZONE LAYOUT



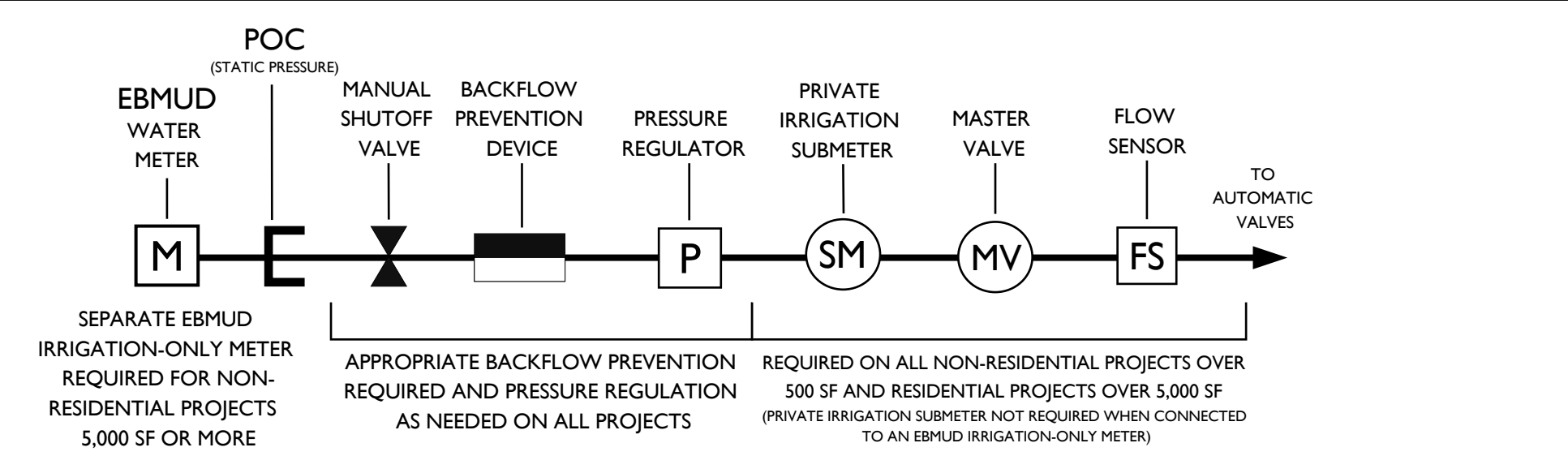
IN-LINE DRIP SNAKE LAYOUTS



SUB-ZONE LAYOUT FOR COMPLEX SHAPES

SAMPLE IRRIGATION LEGEND
(MAKE AND MODEL OF EACH COMPONENT REQUIRED)

| SYMBOL | COMPONENT MAKE, MODEL, TYPE, AND DESCRIPTION |
|--------|---|
| | EBMUD INSTALLED METER |
| | WEATHER-BASED, AUTOMATIC IRRIGATION CONTROLLER |
| | RAIN (OR SOIL) SENSOR |
| | POINT OF CONNECTION AND STATIC PRESSURE |
| | MANUAL BALL (OR GATE) VALVE |
| | REDUCED PRESSURE BACKFLOW PREVENTION DEVICE (ANTI-SIPHON VALVES MAY BE SUBSTITUTED IF INSTALLED PROPERLY; DOUBLE CHECK VALVES ARE NOT ALLOWED) |
| | PRESSURE REGULATOR (IF CONDITIONS REQUIRE) |
| | AUTOMATIC VALVE |
| | VALVE/ZONE NUMBER FLOW RATE IN GALLONS PER MINUTE ZONE AREA IN SQUARE FEET VALVE SIZE |
| | MAIN LINE DIAMETER AND TYPE |
| | LATERAL LINE DIAMETER AND TYPE |
| | SLEEVE DIAMETER AND TYPE |
| | SURFACE 1/2" IN-LINE DRIP TUBING 0.6 GPH, 12" EMITTER SPACING, 12" ROW SPACING (MINIMUM SPACING RECOMMENDED FOR WELL DRAINED SOIL, RAISED BEDS AND STORMWATER TREATMENT FACILITIES) |
| | SUB-SURFACE 1/2" IN-LINE DRIP TUBING 0.6 GPH, 12" EMITTER SPACING, 12" ROW SPACING (MINIMUM SPACING RECOMMENDED FOR WELL DRAINED SOIL, RAISED BEDS AND STORMWATER TREATMENT FACILITIES) |
| | SURFACE 1/2" IN-LINE DRIP TUBING 0.6 GPH, 18" EMITTER SPACING, 18" ROW SPACING (MINIMUM SPACING RECOMMENDED FOR WELL DRAINED SOIL, RAISED BEDS AND STORMWATER TREATMENT FACILITIES) |
| | FLUSH VALVE AND POP-UP DRIP ZONE INDICATOR |
| | AIR VACUUM RELIEVE VALVE (IF CONDITIONS REQUIRE) |
| | WATER FEATURE VALVE TYPE (I.E. FLOAT VALVE) AND FLOW RATE |
| | HOSE BIB |



TYPICAL IRRIGATION POINT OF CONNECTION

DESIGNER CONTACT
INFORMATION

PROJECT TITLE AND SITE ADDRESS

IRRIGATION LEGEND,
NOTES AND DETAILS

DATE:
05/21/2018
REVISIONS:

L
2.1

SAMPLE WATER BUDGET WORKSHEET

(REQUIRED FOR RESIDENTIAL LANDSCAPES OVER 2,500 SQUARE FEET AND NON RESIDENTIAL LANDSCAPES OVER 1,000 SQUARE FEET)

EBMUD - Water Efficient Landscape Worksheet

The purpose of this worksheet is to calculate a project's Estimated Total Water Use and Maximum Applied Water Allowance to determine its compliance with the Model Water Efficient Landscape Ordinance (MWELO).

This worksheet is to be filled out by the project applicant and is a required element of the MWELO Landscape Documentation Package.

Property Address: 175 Gil Blas Rd., Danville, 94526

Reference Site (See MWELO Appendix A): Walnut Creek

Annual ETo (Reference Evapotranspiration Rate): 46.2 Inches

ETAF (ET Adjustment Factor) for Landscape Areas: 55.0 %

ETAF for Special Landscape Areas: 100%

NOTES

1) Eto is the reference evapotranspiration rate and represents the water needs of grass at a given location. It is an estimate of the inches of water lost due to evapotranspiration from a field of cool-season grass that is well watered. Eto values can be derived from MWELO Appendix A for locations across the State of California.

2) Use an evapotranspiration adjustment factor (ETAF) of 45% for new non-residential landscapes, 55% for new residential landscapes and 65% for schools. ETAF is a percentage of Eto and establishes the amount of water allowed per year for irrigation.

3) Use an ETAF of 100% for any special landscape areas which are those dedicated solely to edible plants, programmed recreational areas (e.g. public pools and sports fields), areas irrigated with non-potable water (e.g. recycled, grey and rain water) and stormwater treatment facilities that are required by permit (e.g. bio-retention basins, bio-swales, and flow-through planters).

| ESTIMATED TOTAL WATER USE (ETWU) = (ETo) x (APF) x (Area) x (0.62) where 0.62 is the coefficient that converts inches to gallons per square foot | | | | | | | MAXIMUM APPLIED WATER ALLOWANCE (MAWA) |
|--|--|---|---|--|--------------------------------------|--|---|
| ZONE/ VALVE # | PLANTING DESCRIPTION Eg. Medium Trees, Groundcover, Water Feature, etc. | PLANT FACTOR (PF) Water requirements as a % of ETo | IRRIGATION EFFICIENCY (IE) Percent of applied water that reaches its target (e.g. root zone or water feature) by irrigation method | ADJUSTED PLANT FACTOR (APF) (PF/IE) = AIF Watering requirements adjusted for irrigation efficiency as a % of ETo | HYDROZONE AREA (AREA) Square Feet | CONVERSION FACTOR The coefficient that converts inches to gallons per square foot irrigate this landscape | MAWA represents the annual water budget for this landscape. It is the maximum amount of water allowed per year for irrigation |
| LA | | | | | | | |
| (ETo)(ETAF)(Total Area)(0.62) = Annual gallons allowed | | | | | | | |
| MAWA for LA: | | | | | | | 49213 |
| SLA | | | | | | | |
| (ETo)(ETAF)(Total Area)(0.62) = Annual gallons allowed | | | | | | | |
| MAWA for SLA: | | | | | | | 19621 |
| MAWA Grand Total: | | | | | | | 68834 |

PLANT FACTOR RANGES:

0-10% = Very low; 10-30% = Low; 40-60% = Moderate; 70-100% = High. Water Requirements cited in this ordinance are derived from the publication [Water Use Classification of Landscape Species](#) (ucanr.edu/sites/WUCOLS).

IRRIGATION METHODS AND EFFICIENCIES:

Spray = 70%; Rotating nozzle = 75%; Bubblers = 80%;
Point-source drip = 85%; In-line drip = 90%; Water feature = 100%

Pass: Yes

ETWU shall not exceed MAWA

| Monthly Irrigation Schedule for the Estimated Water Use Controller Controller A | | | | | | | | | | | | | Monthly ETO Values: | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total Annual | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ZONE/ VALVE # | FLOW RATE Sum of all emitters in a zone in gallons per minute (GPM) | | | | | | | | | | | | AVERAGE PRECIPITATION RATE (IN/HR) (PR x 60 Min per Hr)/Area in SF(1.6 in per SF) | | | | Monthly Run Time in Minutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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