

Livermore Hindu Community Center
Base case water calcs

Estimated Applied Water Use (EWU) gallons Per year

$$EWU = (HA \times (ET_o \times K_L / IE)) \times 0.6233$$

EWU = Estimated Applied Water Use (EWU) (gallons per year)
ET_o = Reference Evapotranspiration (inches per year/month)
K_L = Landscape Coefficient
IE = Irrigation System Efficiency in decimal form
HA = Hydrozone area (square feet)
0.6233 = conversion factor (to gallons per square foot)

Medium water use groundcover and shrubs

$$EWU: = 75,158 \times (47.2 \times 1.3 / .625) \times 0.6233$$
$$= 2,299,576 \text{ Gallons per year}$$

Total EWU = 2,299,578 gallons per year

Livermore Hindu Community Center
Design case water calcs

Estimated Applied Water Use (EWU) gallons Per year

$$EWU = (HA \times (ET_o \times K / IE)) \times 0.6233$$

EWU = Estimated Applied Water Use (EWU) (gallons per year)
ET_o = Reference Evapotranspiration (inches per year/month)
K = Landscape Coefficient
IE = Irrigation System Efficiency in decimal form
HA = Hydrozone area (square feet)
0.6233 = conversion factor (to gallons per square foot)

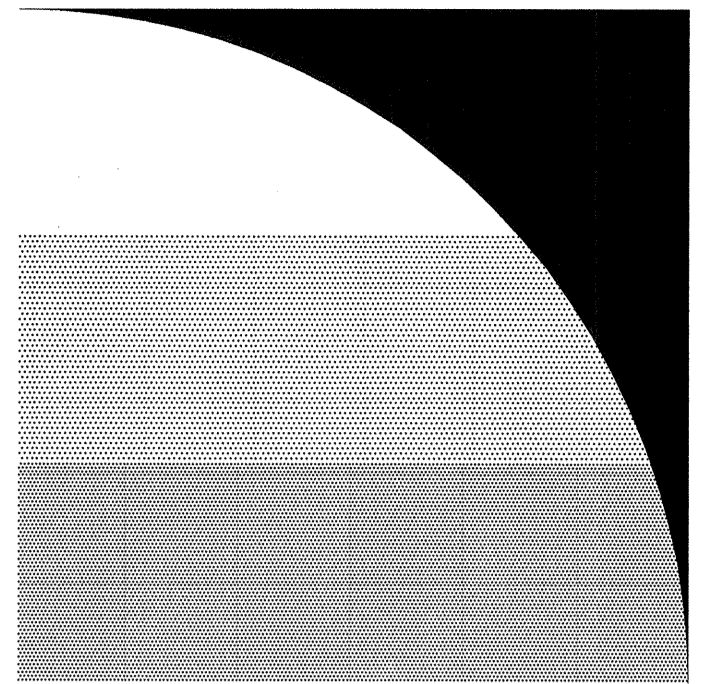
Low water use groundcover & shrubs w/ drip irrigation

$$EWU: = 46,442 \times (47.2 \times .20 / .90) \times 0.6233$$
$$= 303,625 \text{ Gallons per year}$$

Low water use groundcover & shrubs w/ spray irrigation

$$EWU: = 28,716 \times (47.2 \times .50 / .70) \times 0.6233$$
$$= 28,716 \text{ Gallons per year}$$

Total EWU = 953,485 gallons per year

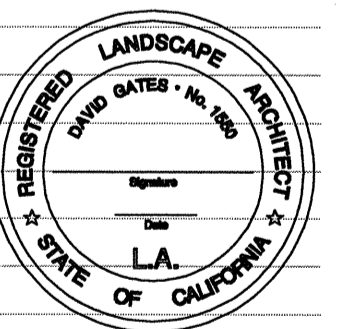


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HINDU
COMMUNITY AND
CULTURAL CENTER
LIVERMORE, CA

REVISION: DESCRIPTION: DATE:



PROJECT NAME: HCCC
PROJECT NUMBER: P3876
PROJECT FILE:
DRAWN: AC
CHECK: DG, JC
DATE: 08/14/2009

SCALE: NTS

WATER SCHEDULES