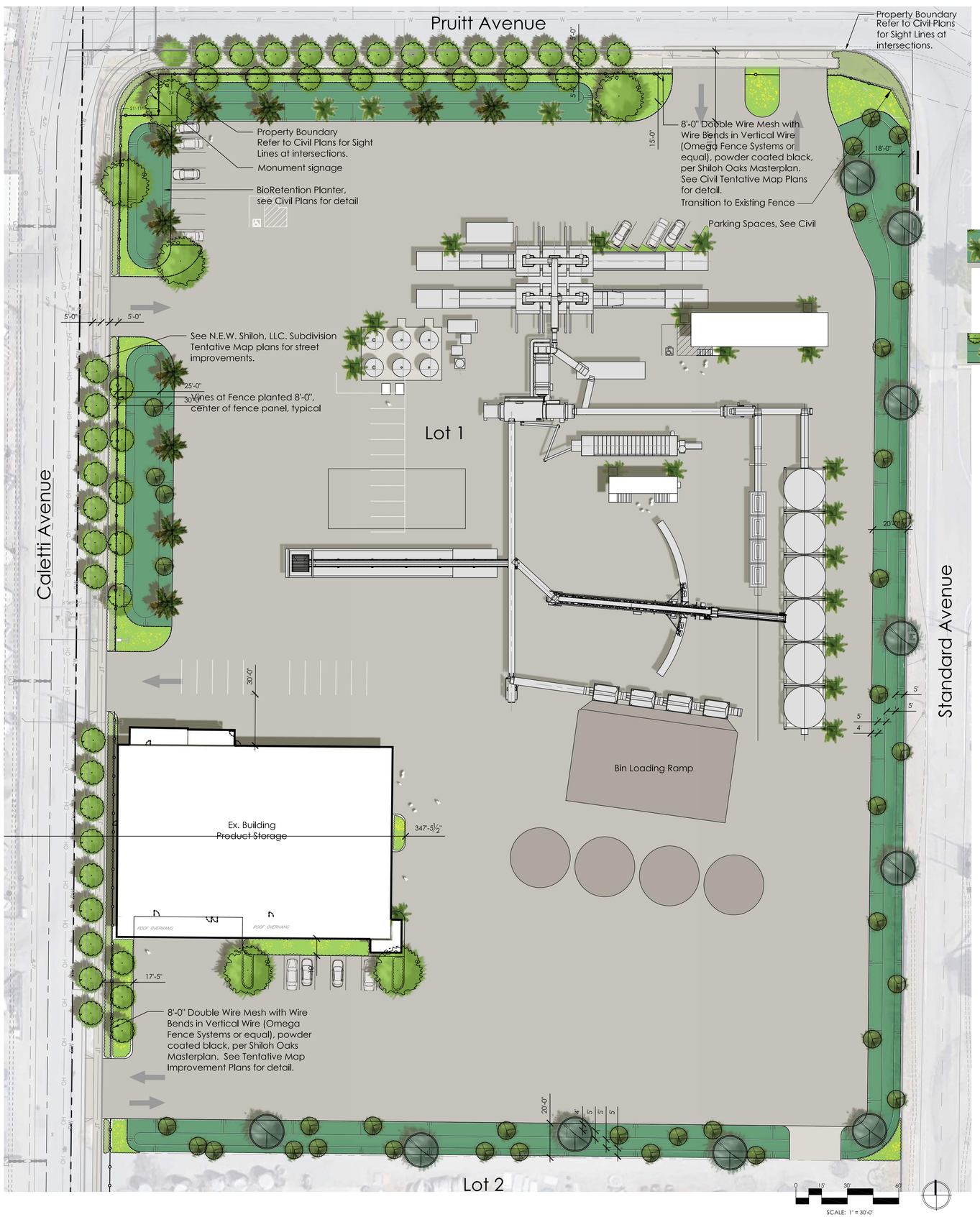


CANDIDATE PLANT LIST

Botanical Name	Common Name	HxW	Spacing	Water Use	Size
Site Planting: Transplanted Trees					
Arecastrum romanzoffianum	Queen Palm	25'x15'	Per Plan	Low	N/A
Phoenix canariensis	Canary Island Palm	50'x35'	Per Plan	Low	N/A
Site Planting: Shade Trees					
Pistacia chinensis	Chinese Pistache	25'x25'	Per Plan	Low	24" Box
Ulmus parvifolia	Chinese Elm	35'x35'	Per Plan	Low	24" Box
Site Planting: Bio-Infiltration Area					
Achillea 'Coronation Gold'	Gold Yarrow	3'x2'	3' o.c.	Low	1 gal.
Arctostaphylos manzanita	Common Manzanita	8'x6'	8' o.c.	Low	5 gal.
Carex divulsa	Berkeley Sedge	2'x2	2' o.c.	Low	1 gal.
Ceanothus 'Yankee Point'	Yankee Point Ceanothus	3'x8'	6' o.c.	Low	5 gal.
Elymus triticoides	Creeping Wild Rye	3'x3'	3' o.c.	Low	1 gal.
Eriogonum fasciculatum	Flattop Buckwheat	2'x3'	3' o.c.	Low	1 gal.
Festuca californica	California Fescue	2'x2'	2' o.c.	Low	1 gal.
Juncus patens 'Elk Blue'	CA Gray Rush	2'x2'	2' o.c.	Low	1 gal.
Rosmarinus officinalis 'Tuscan Blue'	Tuscan Blue Rosemary	5'x3'	4' o.c.	Low	1 gal.
Salvia clevelandii 'Winnifred Gilman'	Blue Sage	3'x3'	3' o.c.	Low	5 gal.
Sisyrinchium bellum	Blue Eyed Grass	6"x12"	1' o.c.	Low	4" pot
Stipa pulchra	Purple Needle Grass	2'x2'	2' o.c.	Very Low	1 gal.
Site Planting: Bio-Infiltration Area Small Trees/Large Shrubs					
Acer buergerianum	Trident Maple	20'x20'	Per Plan	Medium	15 Gal
Ceanothus x 'Dark Star'	Dark Star California Lilac	6'x10'	Per Plan	Low	5 Gal
Cercis occidentalis	Western Redbud	12'x10'	Per Plan	Low	15 Gal
Site Planting: Medium and Small Shrubs					
Arctostaphylos d. 'Howard McMinn"	Shrub Manzanita	6'x6'	6' o.c.	Low	5 gal.
Callistemon v. 'Little John'	Dwarf Bottlebrush	3'x4'	3' o.c.	Low	5 gal.
Ceanothus 'Valley Violet'	California Lilac	3'x4'	3' o.c.	Low	5 gal.
Cistus salviifolius	Sage Leaf Rockrose	2'x6'	6' o.c.	Low	5 gal.
Euphorbia 'Blue Haze'	Blue Haze Euphorbia	18"x2'	2' o.c.	Low	1 gal.
Hesperaloe parviflora 'Yellow'	Yellow Flowering Yucca	4'x2'	3' o.c.	Low	5 gal.
Lomandra longifolia 'Breeze'	Dwarf Mat Rush	3'x4'	3' o.c.	Low	1 gal.
Melianthus major 'Purple Haze'	Purple Haze Honey Bush	3'x3'	3' o.c.	Low	5 gal.
Myrtus communis 'Microphylla'	Dwarf Myrtle	3'x3'	3' o.c.	Low	5 gal.
Penstemon heterophyllus 'Blue Springs'	Foothill Penstemon	2'x2'	2' o.c.	Low	1 gal.
Phlomis fruticosa	Jerusalem Sage	4'x4'	4' o.c.	Low	5 gal.
Rhamnus c. 'Eve Case'	Coffeeberry	6'x6'	5' o.c.	Low	5 gal.
Salvia 'Winnifred Gilman'	Cleveland Sage	3'x3'	3' o.c.	Low	1 gal.
Teucrium chamaedrys	Germander	1'x2'	2' o.c.	Low	1 gal.
Westringia fruticosa 'Morning Light'	Coast Rosemary	4'x4'	4' o.c.	Low	5 gal.
Not Shown — **Site Planting: Vines at Fence** (Per Shiloh Oaks Masterplan)					
Campsis radicans	Common Trumpet Vine	10'x30'	8' o.c.	Low	5 Gal
Clytostoma callisteiodes	Lavender Trumpet Vine	10'x15'	8' o.c.	Medium	5 Gal
Ipomoea acuminata	Morning Glory Vine	10'x25'	8' o.c.	Low	5 Gal
Solanum jasminoides	Potato Vine	10'x20'	8' o.c.	Medium	5 Gal

See N.E.W. Shiloh, LLC. Subdivision Tentative Map Improvement plans for streetscape planting and irrigation.

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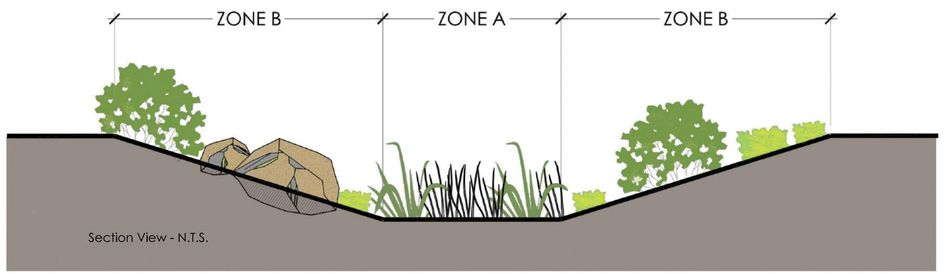
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SAMPLE CANDIDATE PLANT MATERIALS

Bio Infiltration Planting Areas



ZONE A: Lower planting area subject to occasional flooding in rain events.
ZONE B: Sloped planting area adjacent to ZONE A, subject to occasional saturation. Boulders used in ZONE B for aesthetic quality and erosion control.

Bio Infiltration - ZONE A Plant Selection


Creeping Wild Rye


Berkeley Sedge


CA Gray Rush

Bio Infiltration - ZONE B Plant Selection


Yankee Point Ceanothus


Blue Sage


Yarrow

Bio Infiltration - ZONE B - Small Trees/Large Shrubs


Trident Maple


Trident Maple Leaf


Dark Star CA Lilac


Western Redbud

Site Plant Selection


Sageleaf Rockrose


Variegated Mat Rush


Foothill Penstemon


Blue Haze Euphorbia

Site Trees: Parking Area Shade Trees


Chinese Pistache

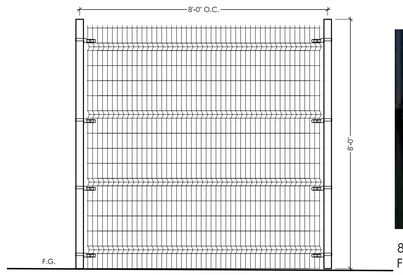

Chinese Elm

Site Trees: Transplanted


Canary Island Palm


Queen Palm

LANDSCAPE MATERIALS: PERIMETER FENCING (For Reference - per Shiloh Oaks Masterplan)



8'-0" Perimeter Fencing, Per Shiloh Oaks Masterplan.



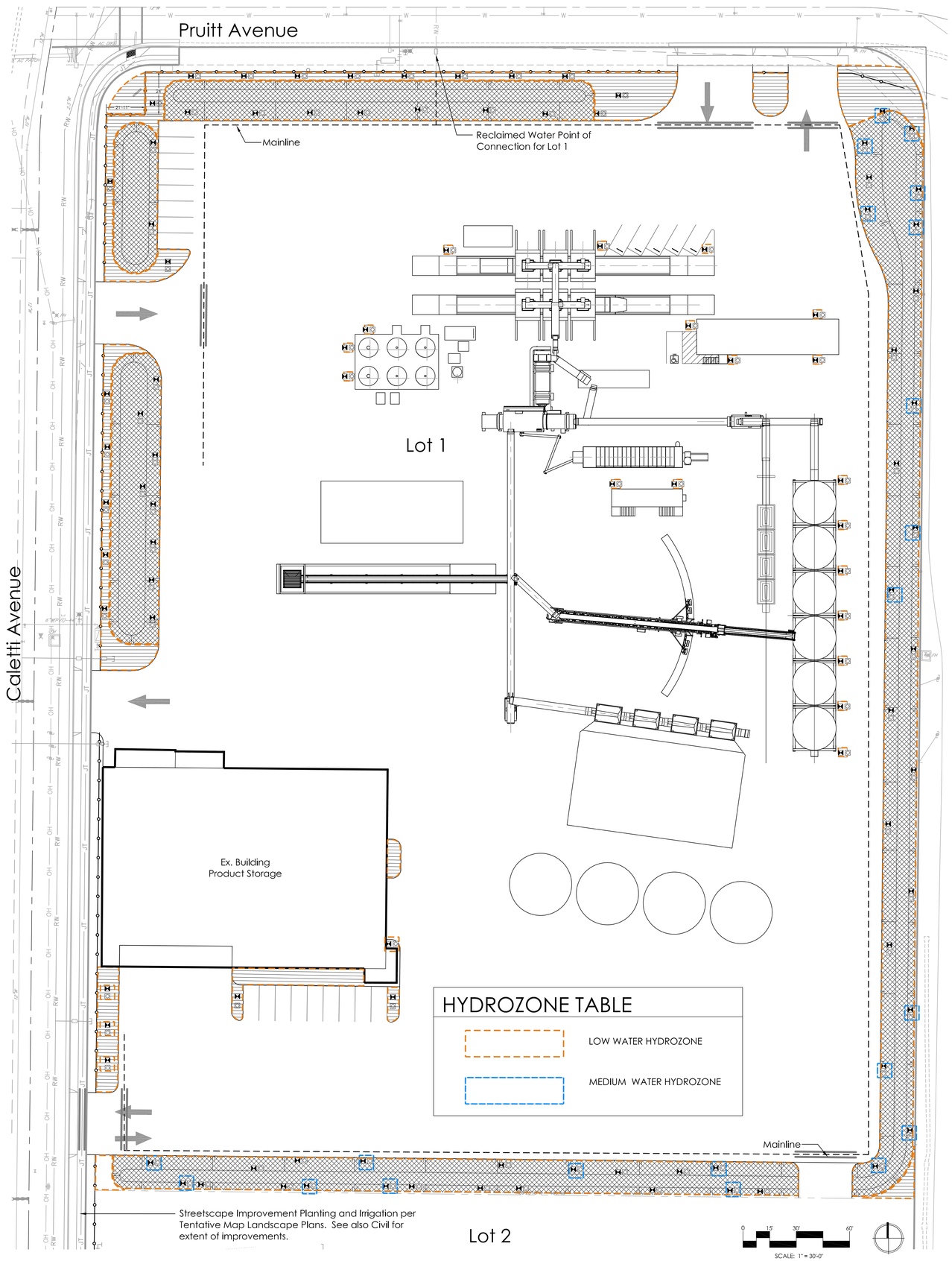


8'-0" double wire mesh (8 GA., 2"x6" wide openings) with wire bends in vertical wire. Omega Fence Systems or equal. Square posts at 8'-0" O.C. shall be installed and all elements shall be powder coated black. Fence shall be located immediately adjacent to R.O.W. and vines planted at the center of each 8' section and trained and maintained on the fence. Species per plan and alternate species, with a minimum of 50% of vines being evergreen.

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	GPM	RADIUS
	Hunter PCB-R Bubblers, with Purple Cap	0.25	3'
	Hunter RZWS-SLEEVE-36-CV with Purple Cap	0.25	3'

*All equipment to be marked purple for reclaimed water.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZ-150 Pre-Assembled Control Zone Kits with 1-1/2" Series 80 Control Valve, 1-1/2" Disc Filter and 1-1/2" High Flow Pressure Regulator. Flow Range: 11 GPM - 35 GPM. Commercial Application.
	Netafim LVCZS8010075-HF Pre-Assembled Control Zone Kit, with 1" Series 80 Control Valve, 3/4" Disc Filter, and High Flow Pressure Regulator 4.5GPM to 17.6GPM.
	Netafim LVCZS8010075-LF Pre-Assembled Control Zone Kit, with 1" Series 80 Control Valve, 3/4" Disc Filter, and Low Flow Pressure Regulator 0.25GPM to 4.4GPM.
X	Netafim 10-F-01 Stake flag the rises to indicate system operating pressure. Flag will be down at 4.5 PSI or lower. Halfway open at 7 PSI. And upright at 10 PSI.
X	Netafim TLSOV Netafim TLSOV- 1/2" manual flush valve, barbed insert. Install in 10" box, with adequate blank or "cobra" tubing to extend valve out of valve box. 17mm fits Techline HCVXR, HCVXR-RW/RWP, CV, DL, RW and RWP driplines, and PE irrigation hose
	LOW WATER USE: Area to Receive Dripline Netafim TLRW-04-18-NP Techline RW Landscape Dripline with Purple Stripe for Non-Potable Water Applications. 0.4 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Designed for Reclaimed Water Use Only.
	LOW WATER USE: Area to Receive Hunter MP Rotators MP1000-MP3500 with check valves. Head to head spacing for full coverage.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Remote Control Valve Hunter ICV-G-R, With Reclaimed Water ID, Purple Handle.
	Quick Coupling Valve Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover
	Gate Valve Nibco T-113 K, Bronze corrosion resistant, Purple Handle
X	Master Valve Buckner-Superior 3100 RW
CC	Controller Hunter ACC-2400, 24 Station Outdoor Modular Controller. Metal Cabinet.
X	Flow Sensor Hunter HFS-158 with ACC controller, 1-1/2" Schedule 80 Sensor Body, 24 VAC, 2 amp.
	Irrigation Lateral Line: PVC Schedule 40-NP, Designated Purple Pipe
	Irrigation Mainline: PVC Schedule 40-NP, Designated Purple Pipe
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Extend sleeves 18 inches beyond edges of paving or construction.

IRRIGATION STATEMENT

All irrigation will be designed to meet the Town of Windsor Article 9 Water Efficient Landscape Ordinance and will contain the following components:

1. The irrigation system will be designed and installed to meet irrigation efficiency described in the maximum applied water allowance.
2. Weather based, self-adjusting irrigation controller with rain sensor.
3. Emitters to include subsurface drip irrigation and tree bubblers.
4. Water efficient MP Rotators are to be used minimally in storm water LID areas.
5. Trees are to be place on separate valves from other planting.
6. Isolation valves to be installed at point of connection and before each valve or manifold.
7. Pressure regulation to be installed as necessary.
8. Separate valves to be installed at point of connection and before each valve or manifold.
9. Pressure regulation to be installed as necessary.
10. Separate valves to be installed to irrigate zones of medium and low water use plantings. No high water plants are being installed in current design.
11. Check valves will be installed to prevent low point drainage.
12. All irrigation equipment and piping will be marked for non-potable water. The irrigation water source for the project will be reclaimed water supplied by the Town of Windsor.
13. Recycled Water Signage to be installed per City Standard.

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WELO/MAWA CALCULATIONS

Maximum Applied Water Allowance Calculations for New and Rehabilitated Non-Residential Landscapes

Enter value in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Click on the blue cell on right to Pick City Name	Windsor	Name of City
ET_o of City from Appendix A	44.20	ET_o (inches/year)
	32293	Overhead Landscape Area (ft^2)
	9094	Drip Landscape Area (ft^2)
	0	SLA (ft^2)
Total Landscape Area	41,387	
Results:		
$(ET_o) \times (0.62) \times [(0.45 \times LA) + (1.0 - 0.45) \times SLA)]$	-	Gallons
	-	Cubic Feet
	-	HCF
	-	Acre-feet
	-	Millions of Gallons
MAWA calculation incorporating Effective Precipitation (Optional)		
Precipitation (Optional)		
ET_o of City from Appendix A	44	ET_o (inches/year)
Total Landscape Area	41,387	LA (ft^2)
Special Landscape Area	0	SLA (ft^2)
	41	Total annual precipitation (inches/year)
Enter Effective Precipitation	10.25	Eppt (in/yr)(25% of total annual precipitation)
Results:		
$MAWA = [(ET_o - Eppt) \times (0.62)] \times [(0.45 \times LA) + ((1.0 - 0.45) \times SLA)]$	392,020	Gallons
	52,405.59	Cubic Feet
	524.06	HCF
	1.20	Acre-feet
	0.39	Millions of Gallons

Estimated Total Water Use

Equation: $ETWU = ET_o \times 0.62 \times [(PF \times HA/IE) + SLA]$; Considering precipitation $ETWA = (ETo-Eppt) \times 0.62 \times [(PF \times HA/IE) +SLA]$

Enter values in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Irrigation Efficiency Default Value for overhead 0.75 and drip 0.81.

Plant Water Use Type	Plant Factor
Very Low	0 - 0.1
Low	0.2 - 0.3
Medium	0.4 - 0.6
High	0.7 - 1.0
SLA	1.0

Hydrozone	Select System From the Dropdown List click on cell below	Plant Water Use Type (s) (low, medium, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft^2) Without SLA	Enter Irrigation Efficiency (IE)	(PF x HA (ft^2))/IE
Zone 1	Overhead Spray	Low	0.20	32,293	0.75	8,611
Zone 2	Drip	Low	0.20	8,774	0.81	2,166
Zone 3	Drip	Medium	0.50	320	0.81	198
						10,975
		SLA		0		0
		Sum		41,387		

Results			
MAWA =	392,020	ETWU =	231,022 Gallons
			30,883 Cubic Feet
			308.83 HCF
			0.71 Acre-feet
			0.23 Millions of Gallons

ETWU complies with MAWA

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