**APPENDIX "H"** 

# RESIDENTIAL LANDSCAPE GUIDELINES

Prepared For: THE GUASTI RESIDENTIAL OVERLAY ZONE

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#### A. INTRODUCTION

The residential landscape component should be consistent with the overall concept and framework developed for the Guasti Plaza Specific Plan. It should reflect and reinforce the region's agrarian roots and the historic significance of the Guasti winery. The design features should incorporate historic artifacts found on the site that could be replicated or reused where appropriate. These elements should provide connectivity to the historical features of the Guasti site and its past uses. Site elements that create visual and physical connection should include enriched decorative pavements; water fountains; site furniture to include benches, pots, waste receptacles, drinking fountains, kiosks, site lighting, plant materials, walls and fences, and signage.

The character and image of the landscape concept should be defined by the site design elements, which should support and complement the architectural theme for the residential component and enhance the outdoor spaces. Landscape design elements of the plan include streetscape; project entry monumentation; surface parking lots; railroad edge treatment; and the open space common/recreation areas.

All elements of site design should follow the guidelines to ensure their design is part of the overall fabric of the Guasti Specific Plan. All landscape plans should meet current City standards as listed in the Development Standards for landscape and irrigation construction documents or as obtained in writing from the Public Facilities Development Department (PFDD). All projects are required to comply with identified objectives and standards and are strongly encouraged to follow the established guidelines.

Examples are shown for establishment of the general design intent and final design should be approved by the Public Facilities Development Department.



Streetscape & Landscape Elements

## **B. LANDSCAPE CONCEPT**

## **1. STREETSCAPES**

The streetscape element creates a unified framework along the street edges of the development and providing continuity throughout the Guasti Specific Plan and encompassing designated street trees, street lighting and signage. The overall landscape conceptual plan identifies specific tree species that should be used to reflect the agrarian character of the region. The eucalyptus windrow was a significant landscape skyline feature in the region and should be reinforced in the plan.

Other tree types, indigenous to the area and compatible to those tree species found in the preservation area, should be planted in informal groupings along the residential frontage roads as noted in the overall landscape concept.

The designated street tree for each streetscape treatment is as follows:

*Via Old Guasti* – Inter-planting of Eucalyptus trees and California Pepper trees.

*Guasti Road* – Informal groupings of Olive, Holly Oak and Crepe Myrtle trees.

*Turner Ávenue* – Pines in random groves together with Ash trees.

*Biane Avenue* – Informal drifts of Eucalyptus trees with flowering understory trees.

### <u>Design Guidelines:</u>

- Minimum tree planting setbacks:
  - > 25' from beginning of curb returns at street intersections
  - > 10' from light standards, power poles and fire hydrants
  - > 7' from underground utilities
  - 5' from sidewalks (except in parkways), driveways, and buildings.
- Street trees should be minimum 24" box size.
- Provide one (1) tree for every twenty-five to thirty feet (25'-30') of linear property frontage.
- Foundation planting adjacent to building (hedgerows or shrub masses in a terraced arrangement) is required at major building perimeters and residential front yards to break horizontal ground plane from the vertical plane of building.
- Street light fixtures should be consistent, decorative in nature, and match those specified in the Guasti Plaza Specific Plan.
- Sidewalk concrete color and score pattern should match the Guasti Plaza Specific Plan.
- All parkway strips and landscaped, project setback areas shall be depressed at a minimum of 2" below top of curb or sidewalk and setback areas shall be depressed and designed as vegetative swales with a cross sectional slope of 3:1 towards a center flow lines.



Section at Guasti Road



Section at Via Guasti Road



## Section at Turner Avenue



## Section at Biane Avenue

#### 2. PROJECT ENTRY AND MONUMENTATION

At the corner intersections and main points of access at New Guasti Road and Turner Avenue (secondary monumentation); and at Via Old Guasti and Turner Avenue (tertiary monumentation), the entry statement should reflect a hierarchy of sign monumentation and landscape design. The monumentation should follow the theme of the Guasti Plaza Specific Plan expressing similar form, materials, and colors. The entrance into the Residential Overlay Zone should create a sense of place that is unique and identifiable to the residents.

- Monumentation design hierarchy to utilize similar materials and colors that compliment the building architecture.
- Monumentation set back should maintain line of sight at the corner intersections. Landscape plant materials should not exceed 24" height within sight triangles calculated per City guidelines.
- Signage lettering should be brass or brushed aluminum, or similar high quality material.
- Monument lighting should be screened from pedestrian and vehicular view, with the exception of decorative lighting.
- Plants at monument signs should be a layered plantings of ornamental shrubs or perennials.
- Accent trees (single or multi-trunk specimens) should be incorporated at corner statements, vehicular entries, and major corner intersections. All accent trees should be min. 36" box. Palms shall be min. 17' brown trunk height (BTH) and minimum 4 ½' cubed rootball.
- All monumentation shall be designed in accordance with the City of Ontario Traffic and Transportation Guidelines for Monument Placement and City Standards for Corner Sight Distance. All monumentation in the public right-of-way shall be subject to the approval of the City Engineer.



Primary Entry Monumentation



Secondary Entry Monumentation



Project Entry and Monumentation from Turner Road

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#### 3. SURFACE PARKING LOTS

Canopy trees in the surface parking lot areas should help reduce reflective glare off the parking lot surface and should be organized in an orchard pattern. Trees that provide a shade canopy and retain the agricultural setting include the Olive Tree or African Sumac. Grape vines should be incorporated to reinforce the "vineyard" theme and will serve as a hedge treatment. Parking lots should be designed with convenient safe, and efficient pedestrian connections to buildings entry areas, and adjacent pedestrian routes. The main pedestrian routes and street crossings should be easily recognizable, accessible, and enhanced with decorative pavement.

#### Design Guidelines:

- Parking areas visible from public streets or adjacent parcels should be screened with three feet (3') minimum height landscaping, allow for two feet overhang of vehicles unless wheel stops are provided.
- Parking lots should have canopy shade trees in landscape islands (one for every 10 spaces single row and one for every 5 spaces per double row). Parking lot double rows should have a 5' wide center planter strip that could include an infiltration trench, if required. Canopy shade trees should have a minimum canopy of 25' 30'.
- Planters adjacent to parking stalls should have a 12" wide curb for access to vehicles.
- Trees in parking areas should have high-branching, broad-headed form to create maximum shade.
- Curbed planting areas should be provided at the end of each parking aisle to protect parked vehicles from turning movements of other vehicles.
- Landscaping in parking lot interiors and at entries should not obstruct drivers' clear sight lines to oncoming traffic.



Parking Lot Grove Tree – African Sumac



Orchard Character – Parking Lot & Drive



Orchard Character – Parking Lot Pedestrian Routes & Connections



Vineyard Character – Grape Vines Between Parking Lot Trees

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## 4. RAILROAD EDGE TREATMENT

The landscape treatment along the railroad right-of-way should emphasize the character of an agricultural windrow, a significant landscape element in the region, and reinforce the importance of the railroad transportation corridor; as described in the Guasti Plaza Specific Plan. A dense eucalyptus tree canopy should be established to act as a living bio-filter for particulate air pollution.

- A solid block wall should be provided along the southern boundary to serve as a barrier to exterior recreational areas and residential units.
- Eucalyptus tree species should provide a dense canopy and create a windrow landscape affect.
- Understory plantings of small flowering trees, and shrubs and groundcover planting should provide a buffer between the residential development and railroad right-of-way.



Eucalyptus Windrow



## 5. COMMON AREAS AND RECREATION AREAS

Common areas are experienced by the residents everyday, and the landscape design should be pleasant and inviting. The recreation areas provide public amenities for recreational play and places to gather. Courtyards and patio spaces provide alternative gathering areas and become focal points within the residential district.

The open space provides a means for physical connection with the neighboring Guasti Winery and the Residential Overlay Zone, as well as visual connection between the two areas.

- Provide connectivity with adjacent uses and accessibility to public streets and sidewalks through interior walkways.
- Common areas to draw people into the space.
- The open space and common areas should include focal elements such as fountains, interpretive displays that reference the District historic features, murals or artwork, specialized detailing, such as ornamental gates, trellises, etc.
- Address safety and visibility issues with clear lines of sight and adequate lighting.
- Seating areas should be outdoor living spaces that provide conversational arrangements of benches, chairs, low tables and pots. The landscape design should provide shade and accent plant materials of distinctive texture and color.
- Pilasters, trellises, public art or other special features should announce entrances and pedestrian "gateways".



Courtyard Entrance







Recreation Area Character



Courtyard – Fountain Focal Element



Courtyard - Accent Tree



Section at Residential Common Area Interior



Section Between Parcel 7 & Parcel 8

## C. LANDSCAPE DESIGN ELEMENTS

The landscape design elements that include pavements, walls, fences, lighting, site furnishing and signage of the residential district complement the architecture and integrate interpretive features into the landscape and streetscape in the Residential Overlay Zone where appropriate, either by incorporating and / or replicating historic artifacts found in the Historic District of the Winery.

The materials, colors and forms of these detailed elements help to enhance the character and image of the residential district, while adding warmth and charm with the reference to the historic past.

#### **1. PAVED SURFACES**

Pedestrian surfaces should enhance and identify special locations such as public plaza, pedestrian alleés, and entrances. Similarly, driveway surfaces at key points, such as entrance drives or other road surfaces that may be traversed by pedestrians, should be enhanced with special paving.

#### Design Guidelines:

- Pedestrian areas and crossings should be clearly demarcated, and may be emphasized by decorative paving; recognizable scoring pattern, or accent bands.
- Recommended materials for pedestrian surfaces include:
  - Interlocking concrete masonry unit pavers;
  - Brick pavers;

Poured-in-place concrete with any of the following treatments: integral pigment color; color hardware; seeded aggregate; or ornamental insets, such as tile.



Brick



Concrete Masonry Unit Pavers



Guasti Interpretive Plan – Stone (Dry Laid)



Flagstone Paving



Decorative Textured Concrete



Tile Pavers

## 2. WALLS AND FENCES

Wall and fence elements should be compatible with the building architectural character, utilizing similar materials and colors. Wall and fences provide separation between public and private courtyards, or recreation areas. They allow views into common areas and ensure a sense of safety and privacy for the private residence. Walls and fences serve as screening devices to enclose service yards, utilities, and trash areas from public view.

- Overall height of wall/fence shall not exceed six (6) feet.
- Walls may occur as garden walls, planter walls, seat walls, or low retaining walls. Metal fences should be mounted on a low wall, and / or between pilasters.
- Wall openings, material changes, or design elements should be used to break up long expanses of uninterrupted fences and walls. Pilasters between wall/fence sections at minimum of 20 feet will add visual interest and interrupt long wall/fence expanses. The length of screening fences and walls adjacent to public right-of-ways should be minimized, where feasible.
- Pilasters are recommended to have a base, shaft and cap composition. Larger piers may be specially designed for gateway or other locations, incorporating ornamental plaques or interpretive signs; public art panels, sculptural elements; or decorative lighting. Ornamental finials, light fixtures, or roof caps may top pilasters.



Brick, Tile, & Stucco Wall



Guasti Interpretive Plan – Wrought Iron Gate



Guasti Interpretive Plan – Wrought Iron Gate



Guasti Interpretive Plan – Wood Gate



Wood Gate to Resemble Guasti Interpretive Elements

- Mechanical equipment, trash and recycling bins, transformers, and meters should be provided with architectural enclosures or fencing, sited in unobtrusive locations, and screened by landscaping. Colors and finishes of mechanical enclosures and equipment should be coordinated with colors and finishes of site furnishings and other painted metal surfaces used on site, or with the associated building's material and color scheme.
- Pool enclosure fences should be designed to maintain an open character, utilizing vertical metal fencing, and shall meet all local health, building, and safety codes.
- Materials and colors:
  - Materials and colors should be compatible with the building architecture.
  - > Fencing materials should be metal or iron fences.
    - For iron or metal fences, recommended materials include wrought iron, cast iron, welded steel or aluminum. All metal fences should be metalized and receive graffiti coating, rust inhibitor and weather protection coating system.
  - Wall materials should be decorative, consisting of split-face block, stone or brick veneer, or plaster finish. Wall caps should be precast concrete, concrete block, stone or stucco finish.
    - Exposed block walls may be constructed with a combination of varied height block courses and / or blended block face colors and textures. (Plain gray precision or slump block concrete block walls are not recommended.)
    - An anti-graffiti coating is recommended for exposed wall surfaces.



Wall Window Openings to Frame Views







Tubular Steel Fence



Stone Wall



ne Wall

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#### **3. SITE FURNISHINGS**

Public gathering places and other publicly accessible areas should be detailed with site furnishings to encourage community use and activity. The site furnishings design element should integrate and coordinate interpretative features into the streetscape and landscape as identified in the Guasti Interpretive Plan. These elements may incorporate artifacts or replication of artifacts to complement the agrarian theme and character. Elements that replicate the existing artifacts should be fabricated of heavy iron material. These elements include benches; freestanding planters; pots; ornamental trash and recycling receptacles; drinking fountains; bollards; signage; interpretative panels; and bicycle racks.

- The design, materials and colors of manufactured furnishings within open spaces/common areas should be coordinated with the building architecture and / or other site and streetscape furnishings. Design and selection of furnishings should attempt to reinforce visual relationships to create a "family of objects" within the immediate project.
- Site furnishings should be made of durable, high quality materials, such as painted fabricated steel, painted cast iron, painted cast aluminum, and integrally colored concrete. Recycled materials may be used only if the finish or look of the material is consistent with or similar to the finishes described above. Masonry surfaces should be treated with an anti-graffiti coating. Metal surfaces should be coated with highly durable finishes.
- Site furnishings to be located in the rooftop development areas should be fabricated from lightweight materials.



Guasti Interpretive Plan – Concrete Lion-faced Planter



Guasti Interpretive Plan – Concrete Bench



Guasti Interpretive Plan – Concrete Bench



Wood Bench & Pot

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#### 4. PLANT MATERIALS

The selection of plant material should establish a visual framework with an agrarian landscape character. The suggested plants should have low water requirements, be suitable for the region, and appropriate for the unique site conditions and characteristics. The recommended plant palette provides a list of plants that are culturally and aesthetically compatible. Plant and landscape materials are selected and sited to reflect both ornamental and functional characteristics. Full-headed shade trees, shrubs, and flowering materials all add to the overall impression of the Residential Overlay District.

#### Design Guidelines:

- Street trees and other plant materials within public right of way should be consistent with the Specific Plan and City Landscape Development Standards.
- Both seasonal and year-round flowering shrubs and trees should be used where they can be most appreciated adjacent to walks and recreational areas, or as a frame for building entrances and stairs.
- Evergreen shrubs and trees should be used for screening along rear property lines, around trash / recycling areas and mechanical equipment, and to obscure grille work and fencing associated with subsurface parking garages.
- Water conservation is a high priority in the city of Ontario. Landscapes should be designed to use water efficiently, without waste, to the lowest practical amount and comply with the City's current Model Water Efficient Landscape Ordinance. Sources for low water plants are WUCOLS, "Water Use Classification of Landscape Species" <u>http://www.owue.water.ca.gov/docs/wucols00.pdf</u> or approved equal.
- Landscape areas should be composed of living plant materials spaced approximately 2/3 to 3/4 of the mature diameter or as found in the natural environment. Non-living ornamental features (boulders, gravel, dry stream beds, etc) may comprise up to 5% of the landscape and should be a pervious material.
- Plant selection and irrigation design should be appropriate with Ontario's regional climate (Sunset Zone 18) classified as Mediterranean, and characterized by hot, dry summers and mild winters. Winter temperatures average between 60 to 70 degrees with occasional lows in the 20's. Summers average 75 to 90 degrees with highs exceeding 100 degrees. Average yearly rainfall is approximately 16 inches. Winds develop from the southwest averaging 6 mph. Hot, dry Santa Ana winds occur between October to March from the northeast at 30 mph with gusts at 60 mph and more. Air quality is considered poor due to frequent temperature inversions that trap pollutants below the inversion.
- In general, deciduous trees with open branching structures are recommended to ensure visibility into the development.

• The minimum mix of tree sizes and species should be provided as follows and should conform to the following minimum measurements:



Water-wise Landscape



Water-wise Landscape

Minimum	Tree Quantity an	d Size Specificat	tions (Palms are	not included)
Minimum on-site Trees	Size	Trunk Caliper	Height	Spread
5 %	48-inch box	3.50-inches	14 to 16 FT	7 to 8 FT
10%	36-inch box	2.50-inches	12 to 14 FT	6 to 7 FT
30 %	24-inch box	1.50-inches	9 to 11 FT	4 to 5 FT
55 %	15-gallon	1.00-inches	7 to 8 FT	2 to 3 FT

Minimum Tree Species M	ix (Palms are not included)
Number of Trees	Minimum Number of Tree Species Required
20 or Fewer	3
21 to 30	4
31 to 40	5
More than 40	6



Formal Garden



Orchard Planting – Agrarian Theme



Shade-loving Plants



Landscape Layering

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## **5. IRRIGATION**

Water conservation is a citywide goal. Efficient water use should contribute towards the conservation of this limited natural resource. Water use efficiency can be achieved by applying only the water required to and maintain the plant in a healthy condition. The project shall comply with the City of Ontario's adopted Water Efficient Ordinance and Landscape Development Standards. Maximum Applied Water Allowance, (MAWA), and Estimated Applied Water Use, (EAWU), shall be calculated and noted on landscape construction documents.

Irrigation systems should be designed to be water efficient with like plant material grouped together and proper solar orientation. Turf should be minimized and valved separately from shrub areas. Landscape areas in the shade (north or east sides of buildings) should be controlled separately from areas in the sun (south or west).

- Whenever possible drip irrigation is to used;
- Drip irrigation is to be used in narrow, or irregularly shaped areas, less than 8' in width.
- System is designed for recycled water if recycled -water infrastructure is expected to be installed;
- All sprinkler heads are spaced to provide 100% overlap
- Heads are to be triangularly spaced;
- Irrigation avoids runoff and wasteful overspray;
- Water schedule to correspond to evening and early morning watering times;
- All sprinklers should have matched precipitation rates;
- All sprinkler heads are equipped with pressure compensating devices, in stem, in valve or other devices are acceptable;
- All sprinklers are to be] equipped with anti-drain valves;
- Irrigation zones are separated by plant material types;
- Irrigation zones are separated by exposure and orientation;
- Irrigation system is protected by flow sensor with master valve;
- Controller is equipped with rain shut off device;
- Irrigation cycles are controlled by moisture sensors and "ET" gauge

## 6. LANDSCAPE PLANTING OVER PODIUM PARKING

Many of the open space and common areas between the residential building units are over the garage structure. This condition requires creative roof top garden design solutions to provide pleasant, pedestrian-friendly experiences among the three to four-story urban residential buildings. Specific design criteria will be followed to accommodate landscape features over the roof structure including structural insulation; waterproofing; drainage; root barriers; irrigation; lightweight planter mix; landscaping; and site furnishings, such as barbecues, lighting, free standing pots, and signage.

- Plantings in container pots should be used extensively, and many include small citrus/fruit tree plantings to serve as accent landscape elements and continue the agrarian theme.
- Utilize lightweight precast, glass fiber reinforced concrete, or other quality lightweight materials that replicate or complement the elements in the Guasti Interpretative Plan.
- Podium parking planter design components should be considered in the structural design systems of the garage structure and consisting of the following components:
  - Insulation layer;
  - ➢ Waterproof membrane to prevent leakage to structure below;
  - Root barrier to contain roots, to protect waterproof membrane;
  - Drainage layers, to be lightweight;
  - Geotextile or filter mat to provide separation between the soil growing medium and the insulation; waterproofing; and drainage layers;
  - Light growing medium, to provide nutrients to the plants and help with drainage;
  - Automated drip irrigation system;
  - $\succ$  Plants.
- Maintenance access should be considered.



Planter Section Over Podium Parking



Lightweight Precast Container Pots Over Podium Parking

## 7. SITE LIGHTING

Lighting in the public right-of-way and on private development should work together to create a cohesive aesthetic for the Guasti Specific Plan Residential Overlay Zone. Light fixtures should replicate or have similar character as the traditional light fixture artifacts found on the site. Lighting should be pedestrian scale, creating a pleasant and safe atmosphere in all outdoor areas.

#### Design Guidelines - General:

- Street lighting in the public street right-of-way shall be in accordance with the latest City of Ontario Standards and to the satisfaction of the City Engineer.
- Lighting design within public rights-of-way, public plazas, and private development should be consistent with Guasti Specific Plan and City Landscape Development Standards.
- Pedestrian oriented areas, including walkways and paths, plazas, parking lots, and parking structures should be illuminated to provide clear views both to and within the site.
- All on-site and building-mounted lighting design should be compatible with building design.
- Unnecessary glare should be avoided. Landscaping can be illuminated indirectly by concealing light features within buildings and landscaping to highlight attractive features and avoid intrusion into neighboring properties.
- Fixtures should use a reflector and / or refractor system for efficient distribution of light and reduction of glare.
- Fixtures should not cause glare or reflect into upper stories of buildings. House side shields and internal reflector caps should be used to block light from illuminating residential windows.
- Cut-off shields are recommended, to prevent light from being emitted above the horizontal relative to the light source.
- The color and finish of lighting materials should be compatible with the character of the Guasti Specific Plan and with the building architecture. Color and finish of lighting metalwork should match that of other site furnishings, and / or of the building metalwork or trim.
- Salvaged items shall be used in the historic core interpretive program and not within the Residential Overlay Zone.

#### Design Guidelines – Poles and Mounting Height:

- For building-mounted lights, mounting height shall be a maximum of eighteen (18) feet, measured from the finished grade.
- For pole-mounted lighting at pedestrian plazas, walkways, and entry areas, a pedestrian-height fixture of twelve (12) to fifteen (15) feet in height from grade to light source is required. At entry, a mounting height of eighteen (18) feet to twenty (20) feet may be acceptable.
- Bollard-mounted lighting and stair lighting is also recommended for low-level illumination of walkways and landscaped areas. Bollard illumination should be shielded or kept at a sufficiently low level to prevent glare impact to passing motorists.



Guasti Interpretive Lighting – Theme Lighting

#### Design Guidelines - Accent Lighting:

- Building façade uplighting, roof "wash" lighting, and landscape uplighting should be operated on timers that turn off illumination entirely after 2:00 a.m. daily.
- Shielding and careful placement should be used to prevent light spillage onto nearby residential dwelling windows and impair visibility for pedestrian and motorist. Adjacent to single-family homes, a combination of mounting height and luminaire shields should be used to protect residences from glare.
- Illumination levels of façade uplighting, roof wash lighting and landscape uplighting be used to lower brightness levels where illuminated facades, roofs and landscaping face residential buildings, except across wider streets with landscaped medians and street trees.



#### 8. SUSTAINABLE LANDSCAPES

The residential landscape component of the Guasti Specific Plan should be an attractive sustainable landscape, in balance with the local climate and requiring minimal resource inputs, such as fertilizer, pesticides, and water. The landscape component should be a sustainable environment that is functional, cost efficient, visuallypleasing, environmentally-friendly and low maintenance.

- <u>Pervious Surfaces</u>: Various permeable pavements should be used to help reduce the rate and quantity of storm water run-off and improve storm water quality by reducing the amount of pollutant entering the storm drain system. All permeable pavements will be ADA accessible. The following types of materials should be used:
  - Interlocking concrete pavers separated by open joint filled with small stones allowing water to flow through an open aggregate base material.
  - The garden paths should use permeable stabilized decomposed granite.
- <u>Recycling of Construction Materials</u>: The City of Ontario adopted Ordinance No. 2806, Sec. 6-3.602 in late 2004. The Ordinance requires all building and demolition permit applicants to submit a Construction and Demolition Recycling Plan. State law (AB 939) requires cities to achieve 50% waste diversion. The amount of waste being disposed in landfills will be reduced by using the following methods:
  - Use of new construction methods that reduce the amount of waste generated;
  - Onsite reuse of waste materials, such as concrete, asphalt, clean wood (unpainted or untreated), brick, metal, cardboard and sheet rock;
  - Job site separation of materials and delivery to a recycling processing facility;
- <u>Landscaping</u>: Water-wise landscape techniques should be implemented into the project.
  - Improve soil with amendments based upon agronomical soil testing and report;
  - Locating plants in the appropriate sun exposure and similar water requirements;
  - Reduce lawn area or use turf types that require less water;
  - Remove weeds that take water away from desired plants;
  - Install efficient irrigation systems and follow water-wise practices of deep, and less frequent watering;
  - Mulch planting beds to help retain soil moisture for plants reducing evapotranspiration and minimizing weeds;
  - Plants should be selected that are best suited for the local climate conditions and are drought tolerant.
  - Low-water requirement plant materials compatible with the City's water efficient landscape ordinance should be used.



Bioswale

- <u>Infiltration Planter Boxes</u>: Infiltration planter boxes should be designed to allow runoff to filter through the planter soils, capturing the pollutants and filtering them through the native soil. The planters should be sized to accept runoff and temporarily store the water in a small reservoir.
- <u>Vegetative Swales/Bioswales</u> and Depressed Landscape Areas: All landscaped parkway strips, pockets and fingers shall be finish graded at a minimum of 2 inches below top-of-curb or top-of sidewalk and all landscape areas shall additionally be depressed and designed as vegetated swales, with a cross sectional slope of 3:1 ratio, towards the center flow line, to capture 2 year event storm water runoff flows from adjacent streets, on-site pavement areas and parking lots. The vegetated swale / bioswale will remove storm water pollutants and contaminants prior to overflowing to elevated landscaping area drains and entering the offsite storm drain system.
- <u>Regional/Local Material</u>: Locally / regionally sourced materials to reduce environmental impacts transportation should be used. Local and regional processed and manufactured materials should be specified.
- <u>Heat Island Effect</u>: In appropriate areas, canopy shade trees and, permeable pavements should be used to help reduce heat island effect by utilizing paving materials of a SRI 29 or higher.
- <u>Use of Recycled Material</u>: Site furnishings, such as benches, tables, chairs, light fixtures should specify products made from recycled plastic materials.
- <u>California Native and Adapted Plant Material</u>: California native and adapted plants to the region should be planted where applicable. These plants have evolved to live with the Mediterranean climate, and soil types. These plant materials offer several advantages:
  - Save water through lower irrigation needs;
  - > Low maintenance by avoiding mowing and hedging needs;
  - > Do not require fertilizer and pesticides, by local adaptation;
  - Improve water quality; plants that do not require pesticides and fertilizers reduce runoff into groundwater and the ocean;
  - Reduce soil erosion; plants with strong roots hold soils in place;
  - > Attract wildlife by providing habitat and food.
- Preservation of Existing Trees: Existing mature trees should be preserved, based on the evaluation of the health and condition of each tree by a certified arborist.

## 9. LANDSCAPE MAINTENANCE REQUIREMENTS

Landscape within the Guasti Specific Plan shall be maintained to ensure water use efficiency. A regular maintenance schedule shall be submitted with the Certification of Completion. A regular maintenance schedule shall include, but not limited to;

- Routine inspection;
- Adjustment and repair of irrigation system and its components;
- Aerating and dethatching turf areas;
- Replenishing mulch; fertilizing (as appropriate);
- Pruning (at the direction of arborist);
- Weeding in all landscape areas;
- Removing any obstruction to emission devices;
- Operation of the irrigation system outside of normal watering window is allowed for auditing and maintenance;
- Repair of all irrigation equipment shall be done with the originally installed components or their equivalents;
- Overall maintenance practices shall be sustainable and environmentally-friendly;

• Landscape personnel responsible for the landscape maintenance shall be certified professionals.

## Appendix: Plant Matrix

GUASTI SPECIFIC PLAN - RESIDENTIAL OVERLAY ZONE

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Plant Matrix			Stre	eetscap	e & Lan	dscape	Elemen	s			Plant E	sposure	
Botanical Name	Common Name	New Guasti Road Vis Guasti	əunəvA rəmuT	əunəvA ənsi8	Project Entry & Monumentation	& scent nommo⊃ ຂ9gb∃	Recreation Areas	γeW-îo-ĵdgiЯ bsoĭlisЯ	Surface Parking Lot	ontainers Containers	uns IIn∃	Partial Sun Shade	
Eucalyptus torquata	Coral Gum	•		•				•			•		
Geijera parviflora	Australian Willow	•		•							•		
Lagerstoemia indica	Crape Myrtle			•	•			•			•		
Pistacia chinensis	Chinese Pistache					•	•		•		•		
Tristania conferta	Brisbane Box	•		•		•	•	•			•		
Ulmus parvifolia True Green'	True Green Chinese Elm					•	•		•		•		
Umbellularia californica	California Bay Laurel					•				· · · · · · · · · · · · · · · · · · ·		•	
Low Water Use													
Phoenix canariansis	Canary Island Palm				•					ł	•		
Phoenix dactvilifera	Date Palm									ŀ			
Washingtonia filifera	California Fan Palm				•								
Medium Water use													
Chamaerops humilis	Medium Fan Palm									•	•	•	
Phoenix roebelenii	Pigmy Date Palm									•			
Trachycarpus fortunei	Windmill Palm									•	•	•	
<b>Small Trees / Large Shrubs</b> Low Water Use													
Alyogyne huegelii	Blue Hibiscus		•	•		•	•	•		•	•		
Callistemon citrinus	Lemon Bottlebrush			•				•		-			
Elaeagnus pungens	Silverberry	•	•	•		•		•					
Medium Water Use	And Andrews												
Anisodontea hypomandarum	Cape Mallow	•	•			•	•			•	•		
Feijoa selowiana	Pineapple Guava					•		•		•	•		
Pittosporum spp.		•	•	•		•	•			•	•		
Prunus cerasifera	Purple-Leaf Plum				•	•	•		•	•	•		

····································	ıt Matrix				Streetsca	ape & La	ndscape	Elemer	ıts			Plan	t Exposi	are
Under sets         Bougainvilies         ····         ····         ····           Inde sets         Bougainvilies         Bio of Paradise Bush         ····         ····         ····           Inde sets         Bio of Paradise Bush         Bio of Paradise Bush         ····         ····         ····         ····           In yound         Bio of Paradise Bush         Bio of Paradise Bush         ·····         ·····         ·····         ·····         ·····         ·····         ·····         ·····         ······         ······         ······         ·····         ·····         ······         ······         ·······         ·······         ········         ·········         ··········         ···	Name	Common Name	beoA itseuĐ wəN	itesa 9 siv Tumer Avenue	əunəvA ənsi8	Project Entry & MoitstnemunoM	Common Areas & S9gb∃	zserA noitserceЯ	γεW-îo-ĵrlgiЯ bsorlisЯ	Surface Parking Lot	Green Roof / Containers	uns Ilu <del>T</del>	nuS leitie9	əbsd2
Index         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdis< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdis<></thdisplay<></thdisplay<>														
Indiana         Bougainvilia         Bound	er Use										1			
pring glinesi         Bird of Paradise Bush         Bird of Paradise Paradis	invillea ssp.	Bougainvillea		•	•	•	•	•	•			•		
dra californica         Baja Fany Duster         Baja Fany Duster </td <td>Ipinia gilliesii</td> <td>Bird of Paradise Bush</td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td>	Ipinia gilliesii	Bird of Paradise Bush		•							•	•		
Ide undata         Red Hot Poker         Ide undata         Red Hot Poker         Ide accounted account account accounted accounted account accounted accounted account	idra californica	Baja Fairy Duster			•							•		
a camara         Landa         Landa <thlanda< th=""> <thlanda< th="">         Landa         <t< td=""><td>ofia uvaria</td><td>Red Hot Poker</td><td></td><td></td><td></td><td>•</td><td>•</td><td>•</td><td></td><td></td><td>•</td><td>•</td><td>•</td><td></td></t<></thlanda<></thlanda<>	ofia uvaria	Red Hot Poker				•	•	•			•	•	•	
dual spp.         Lavendet         Lavendet         Lavendet         Resensary         Resensary <td>na camara</td> <td>Lantana</td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td>	na camara	Lantana		•	•	•	•	•	•		•	•		
sinus oficinalis Tuscan Blué         Rosemary         Italing Rosem	<i>dula</i> spp.	Lavender		•	•	•	•	•	•		•	•		
rinus officialis Prostratus' Training Rosemary Mater UseTraining Rosemary Anter UseTraining Rosemary Mater UseTraining Rosemary Mater UseTraining Rosemary Mater UseTraining Rosemary Mater UseTraining RosemaryTraining Rosema	arinus officinalis 'Tuscan Blue'	Rosemary		•	•	•	•	•		•	•	•		
Mater Use         Mater Use         Flowening Maple	arinus officinalis 'Prostratus'	Trailing Rosemary		•		•	•	•			•	•		
m x hybridum       Flowering Maple         lsis Floribunds'       Vesterday-Today-Tomorow         lsis Floribunds'       Vesterday-Today-Tomorow         microphyla japoncia       Japanese Boxwood         lapanese Boxwood       Image Boxwood         sempervirens       English Boxwood         sempervirens       English Boxwood         sempervirens       Bush Anenne         ustantifus       Bush Anenne         Ustantifus       Nor         as sp.       Nor         in x fraseri       Nor         in x fraseri       Nor         in x fraseri       Nor         in x fraseri       Nor         lopis inica       Nor         lopis induce       Nor         lopina       Nor	Water Use													
Isia Floribunda'Vesterday-TomonovVesterday-TowonovVes	n x hybridum	Flowering Maple					•	•			•		•	•
microphyla japonica         Japanese Boxwood         e	Isia 'Floribunda'	Yesterday-Today-Tomorrow					•	•			•		•	•
sempervirens         English Boxwood         e </td <td>microphylla japonica</td> <td>Japanese Boxwood</td> <td>•</td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	microphylla japonica	Japanese Boxwood	•				•	•		•	•	•	•	•
Ideria californica         Bush Anemole         Ideria californica         Bush Anemole         Ideria californica         Ideria         Ideria californici	sempervirens	English Boxwood	•	•			•	•		•	•	•	•	•
InstantioliusNCNImage: Image: I	nteria californica	Bush Anemone	•	•	•				•			•	•	
aster horizontalis       Rock Cotoneaster       •       •         na spp.       Nandina       Nandina       •	ilus laurifolius	NCN	•	•	•		•		•		•	•	•	•
a sp.NandinaNandinana sp.FlaxNandinanim sp.Flaxnim sp.Photniana x traseriPhotniana x traseriNoticana x traseriNoticana sp.Noticana sp.Notica <td>easter horizontalis</td> <td>Rock Cotoneaster</td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td>•</td> <td></td> <td></td>	easter horizontalis	Rock Cotoneaster		•	•				•			•		
ium sp.Flaxia x fraseriPhotiniaia x fraseriPhotiniaorum sp.Tobiraorum sp.Tobiraorum sp.Indian Hawthornolepis indicaIndian Hawthornolepis indicaIndian Hawthornolepis indicaIndian Hawthornolepis indicaIndian Hawthornolepis indicaIndian Hawthornolepis wajestic BeautyNCNothorisIndian HawthornothorisIndian HawthornothorisIndian Hawthornof the indian HawthornIndian Hawthornof the india	na spp.	Nandina					•	•			•	•	•	
ia x fraseriPhotinianorum spp.Tobiranorum spp.Tobiranorum spp.Indian Hawthornsleps indicaIndian Hawthornscan hookerana humilisIndian Hawthornscan avoidilaFragrant Sarcoccascca ruscifilaFragrant Sarcoccascca ruscifilaFragrant Sarcocca	nium spp.	Flax				•	•	•			•	•	•	
orum sp. Jepis indica Jepis in	ia x fraseri	Photinia		•			•	•			•	•		
<i>olepis indica</i> Indian Hawthorn       • • • •       •	porum spp.	Tobira	•	•		•	•	•		•	•	•	•	
Idepis Wajestic Beauty     NCN     NCN       Vybrids     Roses     •     •     •       votation     Roses     •     •     •     •       cocca hookerana humilis     Sweet Sarcococca     •     •     •     •       cocca ruscifolia     Fragrant Sarcococca     •     •     •     •     •	olepis indica	Indian Hawthorn	•	•		•	•	•		•	•	•	•	
ybrids       Roses       •	olepis 'Majestic Beauty'	NCN		•			•	•			•	•	•	
cocca hookerana humilis Sweet Sarcococca • • • • • • • • • • • • • • • • • •	ybrids	Roses				•	•	•		•	•	•	•	
socca ruscifolia Fragrant Sarcococca • • • •	cocca hookerana humilis	Sweet Sarcococca					•	•			•		•	•
	cocca ruscifolia	Fragrant Sarcococca					•	•			•		•	•

Dlant Matrix			v	traaterar	ne 1 % or	decana	Flaman	ų			Plant	Evnoer	a l
			2	וו בבופרס		nacabe		2				LApust	0
Botanical Name	Common Name	bsoA itssuƏ wəM	ຫຼະຍາຍ siV ອຸມກອນຊາອານມ	əunəvA ənsi8	Project Entry & Monumentation	Common Areas & Edges	Recreation Areas	γsW-îo-îrghf bsorlisЯ	Surface Parking Lot	Green Roof / Containers	uns Ilu	nuS leihe9	əbade
Groundcovers													
Low Water Use													
Cistus salvifolius	Rockrose		•	•		•		•		•	•		
Lantana montevidensis	Trailing Lantana		•	•	•	•	•	•	•	•	•		
Lonicera japonica 'Halliana'	Hall's Honeysuckle	•	•	•		•		•			•	•	
Myoporum parvifolium	Myoporum		•	•	•	•	•	•		•	•		
Medium Water Use													
Coprosma 'Verde Vista'	NCN	•	•			•				•	•	•	
Coprosma x kirkii	NCN	•	•			•				•	•	•	
Gazania spp.	Gazania	•				•	•	•		•	•	•	
Perennials Low Water Use													
Agave spp.	Agave				•	•				•			
Aloe spp.	Aloe				•					•			
Anigozanthos flavidus	Kangaroo Paw					•	•			•	•		
Anigozanthos viridis	Green Kangaroo Paw					•	•			•	•		
Hesperaloe parvifiora	Red/Yellow Yucca				•	•	•			•	•	•	
Kniphofia uvaria	Red-Hot Poker				•	•	•			•	•	•	
Stipa tenuissima	Mexican Feather Grass				•	•	•			•	•	•	
Medium Water Use					•					·			
Dietes spp.	Fortnight Lily	•	•		•	•	•			•	•	•	
Digitalis lutea	Foxglove					•	•			•		•	•
Digitalis X mertonensis	Foxglove				•	•	•			•	•	•	•
Dryopteris erythrosora	Autumn Fern					•	•			•		•	•
Festuca ovina glauca	Blue Fescue				•	•	•			•	•		
Geranium ssp.	Cranesbill					•	•			•	•	•	
Helictotrichon sempervirens	Blue Oat Grass				•	•	•			•	•		

rix				Stree	tscape	& Lanc	dscape	Elemer	Its			Plant	Exposi	are
	Common Name	beoA itsenÐ wəN	itsen e iV	əunəvA rəmuT	əunəvA ənsi8	Project Entry & Monumentation	മ ഭാചന്താ മുറ്റം മുറ്റം	Recreation Areas	γεW-îo-îrlgiЯ bsorlisЯ	Surface Parking Lot	Green Roof / Containers	uns Ilu∃	nuS lsitis¶	əpeys
	Daylily					•	•	•		•	•	•	•	
	Coral Bells						•	•			•	•	•	
	Lilyturf	•	•				•	•			•	•	•	
i	Muhlenbergia	•	•	•							_		•	•
	Southern Sword Fern						•	•			•	•	•	•
	Boston Fern						•	•			•		•	•
	Flax	•	•			•	•	•			•	•	•	
	Leather Leaf Fern						•	•			•	•	•	
	NCN						•	•			•	•	•	
	Lamb's Ear	•	•	•									•	•
	Giant Chain Fern					•	•	•			•		•	•
	Bougainvillea						•	•				•		
	Lilac Vine						•	•			•	•	•	
	Italian Jasmine						•	•			•	•	•	
efolia	Virginia Creeper						•	•			•	•	•	•
idata	Boston Ivy						•	•			•	•	•	•
inoides	Star Jasmine						•	•			•	•	•	