### **GENERAL LANDSCAPE NOTES**

LANDSCAPE AND IRRIGATION PLANS SHALL COMPLY WITH ALL PUBLISHED REQUIREMENTS OF THE COUNTY OF MONTEREY AND THE CALIFORNIA DEPARTMENT OF WATER RESOURCES, MODEL WATER EFFICIENT ORDINANCE. CHAPTER 2.7. THE LANDSCAPE PLANS SHALL MEET THE FOLLOWING DESIGN

#### **DESIGN PLAN**

A FOR THE EFFICIENT USE OF WATER, THE LANDSCAPE SHALL BE CAREFULLY DESIGNED AND PLANNED FOR THE INTENDED FUNCTION OF THE PROJECT.

#### 1 PLANT MATERIAL

- A PLANTS WILL BE SELECTED FOR THE LANDSCAPE, PROVIDING THE ESTIMATED TOTAL WATER USE IN THE LANDSCAPE AREA DOES NOT EXCEED THE MAXIMUM APPLIED WATER ALLOWANCE. TO ENCOURAGE THE EFFICIENT USE OF WATER, THE PLANS INCLUDE THE FOLLOWING:
- 1. PROTECTION AND PRESERVATION OF NATIVE SPECIES AND NATURAL VEGETATION;
- 2. SELECTION OF WATER-CONSERVING PLANT AND TURF SPECIES;
- 3. SELECTION OF PLANTS BASED ON DISEASE AND PEST RESISTANCE;
- 4. SELECTION OF TREES BASED ON APPLICABLE LOCAL TREE ORDINANCES OR TREE SHADING GUIDELINES; AND
- 5. SELECTION OF PLANTS FROM LOCAL AND REGIONAL LANDSCAPE PROGRAM PLANT LISTS.
- B EACH HYDROZONE SHALL HAVE PLANT MATERIALS WITH SIMILAR WATER USE, WITH THE EXCEPTION OF HYDROZONES WITH PLANTS OF MIXED WATER USE, AS SPECIFIED IN SECTION 492.7(A)(2)(D).
- C PLANTS SHALL BE SELECTED AND PLANTED APPROPRIATELY BASED UPON THEIR ADAPTABILITY TO THE CLIMATIC, GEOLOGIC, AND TOPOGRAPHICAL CONDITIONS OF THE PROJECT SITE. TO ENCOURAGE THE EFFICIENT USE OF WATER, THE PLANS INCLUDE THE FOLLOWING:
- 1. USE OF THE SUNSET WESTERN CLIMATE ZONE SYSTEM WHICH TAKES INTO ACCOUNT TEMPERATURE, HUMIDITY, ELEVATION, TERRAIN, LATITUDE, AND VARYING DEGREES OF CONTINENTAL AND MARINE INFLUENCE ON LOCAL CLIMATE;
- 2. RECOGNITION OF THE HORTICULTURAL ATTRIBUTES OF PLANTS (I.E., MATURE PLANT SIZE, INVASIVE SURFACE ROOTS) TO MINIMIZE DAMAGE TO PROPERTY OR INFRASTRUCTURE [E.G., BUILDINGS, SIDEWALKS, POWER LINES]; AND
- 3. CONSIDERATION OF THE SOLAR ORIENTATION FOR PLANT PLACEMENT TO MAXIMIZE SUMMER SHADE AND WINTER SOLAR
- 4. MINIMUM TREE SIZES SHALL BE 5 GAL. SIZE. MINIMUM SHRUB AND VINE SIZES SHALL BE 1 GAL SIZE.
- D TURF IS NOT UTILIZED ON SLOPES GREATER THAN 25% WHERE THE TOE OF THE SLOPE IS ADJACENT TO AN IMPERMEABLE HARDSCAPE AND WHERE 25% MEANS 1 FOOT OF VERTICAL ELEVATION CHANGE FOR EVERY 4 FEET OF HORIZONTAL LENGTH (RISE DIVIDED BY RUN X 100 = SLOPE PERCENT).
- THE LANDSCAPE ADDRESSES FIRE SAFETY AND PREVENTION INCLUDING A DEFENSIBLE SPACE OR ZONE AROUND A BUILDING OR STRUCTURE AS REQUIRED PER PUBLIC RESOURCES CODE SECTION 4291(A) AND (B). AVOIDING FIRE-PRONE PLANT MATERIALS AND HIGHLY FLAMMABLE MULCHES.
- F INVASIVE AND/OR NOXIOUS PLANT SPECIES ARE NOT UTILIZED.

## 2 WATER FEATURES

- A RECIRCULATING WATER SYSTEMS SHALL BE USED FOR WATER FEATURES.
- B WHERE AVAILABLE. RECYCLED WATER SHALL BE USED AS A SOURCE FOR DECORATIVE WATER FEATURES.
- C SURFACE AREA OF A WATER FEATURE SHALL BE INCLUDED IN THE HIGH WATER USE HYDROZONE AREA OF THE WATER BUDGET CALCULATION.
- D POOL AND SPA COVERS ARE UTILIZED.
- 3 MULCH AND AMENDMENTS
- A. A MINIMUM TWO INCH (2) LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT IN TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED.
- B. STABILIZING MULCHING PRODUCTS SHALL BE USED ON SLOPES.
- C. THE MULCHING PORTION OF THE SEED/MULCH SLURRY IN HYDRO-SEEDED APPLICATIONS SHALL MEET THE MULCHING REQUIREMENT.
- D. SOIL AMENDMENTS SHALL BE INCORPORATED ACCORDING TO RECOMMENDATIONS OF THE SOIL REPORT AND WHAT IS APPROPRIATE FOR THE PLANTS SELECTED.

### B THE LANDSCAPE DESIGN PLAN:

- 1 DELINEATES AND LABELS EACH HYDROZONE BY NUMBER, LETTER, OR OTHER METHOD:
- 2 IDENTIFIES EACH HYDROZONE AS LOW, MODERATE, HIGH WATER, OR MIXED WATER USE. TEMPORARILY IRRIGATED AREAS OF THE LANDSCAPE SHALL BE INCLUDED IN THE LOW WATER USE HYDROZONE FOR THE WATER BUDGET CALCULATION;
- 3 IDENTIFIES RECREATIONAL AREAS;
- 4 IDENTIFIES AREAS PERMANENTLY AND SOLELY DEDICATED TO EDIBLE PLANTS;
- 5 IDENTIFIES AREAS IRRIGATED WITH RECYCLED WATER;
- 6 IDENTIFIES TYPE OF MULCH AND APPLICATION DEPTH
- 7 IDENTIFIES SOIL AMENDMENTS, TYPE, AND QUANTITY;
- 8 IDENTIFIES TYPE AND SURFACE AREA OF WATER FEATURES;
- 9 IDENTIFIES HARDSCAPES (PERVIOUS AND NON-PERVIOUS);
- 10 IDENTIFIES LOCATION AND INSTALLATION DETAILS OF APPLICABLE STORMWATER BEST MANAGEMENT PRACTICES THAT ENCOURAGE ON-SITE RETENTION AND INFILTRATION OF STORMWATER. STORMWATER BEST MANAGEMENT PRACTICES ARE INCLUDED IN THE LANDSCAPE DESIGN PLAN AND EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO:
- A. INFILTRATION BEDS, SWALES, AND BASINS THAT ALLOW WATER TO COLLECT AND SOAK INTO THE GROUND;
- B. CONSTRUCTED WETLANDS AND RETENTION PONDS THAT RETAIN WATER, HANDLE EXCESS FLOW, AND FILTER POLLUTANTS; AND
- C. PERVIOUS OR POROUS SURFACES (E.G., PERMEABLE PAVERS OR BLOCKS, PERVIOUS OR POROUS CONCRETE, ETC.) THAT MINIMIZE
- 11 IDENTIFIES ANY APPLICABLE RAIN HARVESTING OR CATCHMENT TECHNOLOGIES (E.G., RAIN GARDENS, CISTERNS, ETC.);
- 12 WILL CONTAIN THE FOLLOWING STATEMENT: "I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN"; AND
- 13 WILL BEAR THE SIGNATURE OF A LICENSED LANDSCAPE ARCHITECT.

### LANDSCAPE WATER EFFICIENCY REQUIREMENTS:

THE LANDSCAPE PLANS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE MONTEREY PENINSULA WATER MANAGEMENT DISTRICT (ORD. NO 141).

A. NON-RESIDENTIAL WATER EFFICIENCY STANDARDS FOR NEW **STRUCTURES** 

ALL NON-RESIDENTIAL NEW STRUCTURES RECEIVING A WATER PERMIT ON OR AFTER JANUARY 1, 2010 SHALL MEET OR EXCEED THE FOLLOWING STANDARDS:

- 1. WEATHER-BASED IRRIGATION SYSTEM CONTROLLERS SHALL INCLUDE FUNCTIONING SOIL MOISTURE SENSORS AND A RAIN SENSOR AS COMPONENTS OF THE SYSTEM.
- 2. DRIP IRRIGATION SHALL BE UTILIZED FOR WATERING ALL NON-TURF IRRIGATED PLANTINGS.
- 3. ROTATING SPRINKLER NOZZLES SHALL BE UTILIZED FOR TURF IRRIGATION.
- 4. OVERHEAD SPRAY IRRIGATION SHALL NOT BE USED TO WATER NON-TURF LANDSCAPING. INCLUDING TREES AND SHRUBS.
- 5. IRRIGATION SYSTEMS SHALL OPERATE WITH AT LEAST 70 PERCENT FEFICIENCY.
- 6. RAINWATER COLLECTION/IRRIGATION SYSTEMS ARE **ENCOURAGED TO SUPPLEMENT IRRIGATION FOR NEW** LANDSCAPING. NEW STRUCTURES SHALL BE ENCOURAGED TO INCLUDE ONE OR MORE RAINWATER CISTERNS AND A SYSTEM TO PROVIDE AT LEAST 75 PERCENT OF EXTERIOR IRRIGATION DURING NORMAL RAINFALL YEARS. SYSTEMS MUST BE COMPLIANT WITH LOCAL CATCHMENT SYSTEM STANDARDS
- 7. GRAYWATER COLLECTION/IRRIGATION SYSTEMS ARE **ENCOURAGED TO SUPPLEMENT IRRIGATION FOR NEW** LANDSCAPING. SYSTEMS MUST BE COMPLIANT WITH LOCAL CATCHMENT SYSTEM STANDARDS, INCLUDING MONTEREY COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.
- 8. ALL SITES UTILIZING A GRAYWATER REUSE SYSTEM SHALL INSTALL AND MAINTAIN A BACKFLOW PREVENTION DEVICE AS REQUIRED BY ANY WATER DISTRIBUTION SYSTEM OPERATOR THAT SUPPLIES WATER TO THE SITE.
- 9. THE IMPLEMENTATION OF WATER CONSERVATION BEST MANAGEMENT PRACTICIES SHALL BE INTEGRATED INTO CONSTRUCTION AND OPERATION OF THE PROJECT TO THE EXTENT POSSIBLE.

# **EXISTING TREE PRESERVATION:**

THE LANDSCAPE PLANS SHALL COMPLY WITH THE FOLLOWING: THE COUNTY OF MONTEREY CODE OF ORDINANCES; TITLE 16 -**ENVIRONMENT: CHAPTER 16.60** PRESERVATION OF OAK AND OTHER PROTECTED TREES (ORD. 3420, 1989)

## 16.60.030 - REGULATIONS

H. OAKS;

I. MADRONES.

EXCEPT AS PROVIDED IN SECTION 16.60.060 OF THIS CHAPTER THE FOLLOWING REGULATIONS APPLY:

- 1. NO OAK OR MADRONE TREE SIX INCHES OR MORE IN DIAMETER TWO FEET ABOVE GROUND LEVEL SHALL BE REMOVED IN THE NORTH COUNTY AREA PLAN OR TORO AREA PLAN AREAS WITHOUT APPROVAL OF THE PERMIT(S) REQUIRED IN SECTION 16.60,040 OF THIS CHAPTER.
- 2. NO OAK, MADRONE OR REDWOOD TREE SIX INCHES OR MORE IN DIAMETER TWO FEET ABOVE GROUND LEVEL SHALL BE REMOVED IN THE CARMEL VALLEY MASTER PLAN AREA WITHOUT APPROVAL OF THE PERMIT(S) REQUIRED IN SECTION 16.60.040 OF THIS CHAPTER.
- 3. NO NATIVE TREE SIX INCHES OR MORE IN DIAMETER TWO FEET ABOVE GROUND LEVEL SHALL BE REMOVED IN THE CACHAGUA AREA PLAN AREA WITHOUT APPROVAL OF THE PERMIT(S) REQUIRED IN SECTION 16.60.040 OF THIS CHAPTER
- 4. "NATIVE TREES," FOR THE PURPOSE OF THIS SECTION, ARE: A. SANTA LUCIA FIR; B. BLACK COTTONWOOD; C. FREMONT COTTONWOOD; D. BOX EDLER; E. WILLOWS; F. CALIFORNIA LAUREL: G. SYCAMORES;
- 5. NO OAK TREE MAY BE REMOVED IN ANY OTHER AREA OF THE COUNTY OF MONTEREY DESIGNATED IN THE APPLICABLE AREA PLAN AS RESOURCE CONSERVATION, RESIDENTIAL, COMMERCIAL OR INDUSTRIAL (EXCEPT INDUSTRIAL, MINERAL EXTRACTION) WITHOUT APPROVAL OF THE PERMIT(S) REQUIRED IN SECTION 16.60.040 OF THIS CHAPTER.

- 6. NO LANDMARK OAK TREE SHALL BE REMOVED IN ANY AREA EXCEPT AS MAY BE APPROVED BY THE DIRECTOR OF PLANNING PURSUANT TO SECTION 16.60.040 OF THIS CHAPTER. LANDMARK OAK TREES ARE THOSE TREES WHICH ARE TWENTY-FOUR (24) INCHES OR MORE IN DIAMETER WHEN MEASURED TWO FEET ABOVE THE GROUND, OR TREES WHICH ARE VISUALLY SIGNIFICANT, HISTORICALLY SIGNIFICANT, OR EXEMPLARY OF THEIR SPECIES.
- 7. NO OAK TREE MAY BE REMOVED IN ANY OTHER AREA OF THE COUNTY OF MONTEREY DESIGNATED IN THE APPLICABLE AREA PLAN AS AGRICULTURAL OR INDUSTRIAL, MINERAL EXTRACTION, UNLESS SUCH REMOVAL MEETS AND PURPOSE AND STANDARDS REQUIRED IN SECTION 16.60.050 OF THIS CHAPTER.
- NO OAK TREES MAY BE REMOVED IN ANY AREA OF THE COUNTY OF MONTEREY FOR COMMERCIAL HARVESTING PURPOSES WITHOUT APPROVAL OF A USE PERMIT BY THE PLANNING COMMISSION.

### **NEW CONSTRUCTION:**

COUNTY OF MONTEREY CODE OF ORDINANCES; TITLE 18 – NEW CONSTRUCTION

### 18.50.050 - REQUIREMENTS FOR NEW CONSTRUCTION.

 ALL NEW CONSTRUCTION SHALL INCLUDE AS PART OF THE EXTERIOR LANDSCAPE DEVELOPMENT, LOW WATER USE OR NATIVE DROUGHT-RESISTANT PLANT MATERIAL AND LOW PRECIPITATION SPRINKLER HEADS, BUBBLERS, DRIP IRRIGATION SYSTEM AND TIMING DEVICES. BEFORE ANY PERMIT MAY BE ISSUED FOR SUCH NEW CONSTRUCTION, THE APPLICANT SHALL SUBMIT A LANDSCAPE PLAN FOR REVIEW AND APPROVAL BY THE DIRECTOR OF BUILDING SERVICES IN CONFORMITY WITH LANDSCAPE GUIDELINES ADOPTED BY THE BOARD OF SUPERVISORS.

### **GENERAL IRRIGATION NOTES:**

- INSTALL POP-UP SPRINKLER HEADS POSITIONED WITHIN SHRUB OR GROUND COVER AREAS WITH THE TOP OF SPRINKLER ABOVE FINISH GRADE AS SHOWN IN THE DETAILS.
- 2. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE OF AREA TO BE IRRIGATED UNLESS INDICATED OTHERWISE ON DRAWINGS.
- 3. WHEN VERTICAL OBSTRUCTIONS (SITE HARDSCAPE ELEMENTS, FIRE HYDRANTS, TREES, LIGHT POLES, ETC.) INTERFERE WITH THE SPRINKLER HEAD PATTERN OF COVERAGE, ADJUST SPRINKLER SYSTEM LAYOUT BY INSTALLING A QUARTER CIRCLE, HALF CIRCLE OR ADJUSTABLE CIRCLE SPRINKLER HEAD ON EACH SIDE OF OBSTRUCTION IN ORDER TO PROVIDE PROPER COVERAGE. PERFORM SPRINKLER LAYOUT ADJUSTMENT AT NO COST TO THE OWNER.
- 4. SPRINKLER SYSTEM WILL BE BASED ON MINIMUM PRESSURE AND MAXIMUM FLOW DEMAND SHOWN ON IRRIGATION DRAWINGS. REFER TO POINT-OF-CONNECTION NOTES. VERIFY PERMANENT WATER PRESSURE BEFORE THE START OF CONSTRUCTION. REPORT DIFFERENCES BETWEEN WATER PRESSURE INDICATED ON DRAWINGS AND ACTUAL SITE PRESSURE READING AT IRRIGATION POINT-OF-CONNECTION TO OWNER'S AUTHORIZED REPRESENTATIVE FOR RESOLUTION. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, ASSUME FULL RESPONSIBILITY FOR REVISIONS.
- 5. FLUSH AND ADJUST SPRINKLER HEADS FOR OPTIMUM PERFORMANCE PREVENT OVERSPRAY ONTO WALKS, ROADWAYS, WALLS, FENCES AND BUILDINGS. SELECT THE MOST APPROPRIATE PART CIRCLE PATTERN NOZZLE TO FIT THE SITE CONDITIONS AND THROTTLE THE FLOW CONTROL ADJUSTMENT AT EACH CONTROL VALVE TO OBTAIN OPTIMUM SPRINKLER HEAD PRESSURE.
- DO NOT WILLFULLY INSTALL SPRINKLER SYSTEM AS INDICATED ON DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT EXISTING OBSTRUCTIONS, GRADE DIFFERENCES IN AREA DIMENSIONS, AND OTHER SITE SPECIFIC INFORMATION THAT MIGHT NOT HAVE BEEN CONSIDERED DURING DESIGN. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE OF SUCH OBSTRUCTIONS OR DIFFERENCES FOR RESOLUTION. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, ASSUME FULL RESPONSIBILITY FOR REVISIONS.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH GRADE DIFFERENCES, WALL/HARDSCAPE LOCATIONS, ETC. COORDINATE WORK FOR THE INSTALLATION OF IRRIGATION PIPE SLEEVES THROUGH WALLS, UNDER PAVEMENT AND STRUCTURES, ETC.
- CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF SUFFICIENTLY SIZED SLEEVES FOR CONTROL WIRES AND NON-PRESSURE LATERAL LINE PIPING UNDER PAVED AREAS, IN ADDITION TO CONTROL WIRES AND LATERAL LINE PIPING SLEEVES SHOWN ON THE DRAWINGS.
- 9. INSTALL PIPING, RELATED MATERIALS AND EQUIPMENT AS SHOWN ON THE DRAWINGS. USE TEFLON TAPE ON PVC MALE PIPE THREADS, INCLUDING SPRINKLER SWING JOINT AND VALVE ASSEMBLIES. DO NOT USE PIPE
- 10. TEST ALL PRESSURE MAIN LINES UNDER HYDROSTATIC PRESSURE OF 150 PSI FOR A PERIOD OF 3 HOURS. TESTING OF PRESSURE MAIN LINE PIPING SHALL OCCUR PRIOR TO THE INSTALLATION OF ANY ELECTRIC CONTROL VALVE, BASKET STRAINERS, QUICK COUPLING VALVES AND OTHER PRESSURE-SIDE IRRIGATION FACILITIES. PRESSURE TESTING RESULTS SHALL BE SUBMITTED TO OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BACKFILLING.
- 11. PROVIDE DRIPLINE EMITTER TUBING SYSTEM FOR PLANTING AREAS AS SHOWN ON DRAWINGS.
- 12. INSTALL DRIPLINE TUBING AND NON-PRESSURE LATERAL LEAD LINE PIPING IN LANDSCAPE AREAS AND ADJACENT TO SELECTED PLANT MATERIAL AS SHOWN IN DETAILS.
- 13. REFER TO PLANTING LEGEND FOR PLANT MATERIAL NAMES, ABBREVIATIONS, SPECIFIC SIZES, ON-CENTER SPACING, AND ADDITIONAL INFORMATION.
- 14. DO NOT INSTALL DRIPLINE TUBING UNDER PAVED SURFACES. CONNECT DRIPLINE TUBING TO SCHEDULE 40 PVC LATERAL LINE PIPING FOR ROUTING UNDER PAVED SURFACES AND SCHEDULE 80 PVC PIPING ROUTING THROUGH PLANTER WALLS. ADAPT DRIPLINE TUBING TO PVC PIPING AS REQUIRED WITH COMPRESSION ADAPTER FITTINGS.
- 15. CONNECT DRIPLINE PIPING TO PRESSURE REGULATOR UNITS WITH SCHEDULE 40 PVC MALE ADAPTER FITTINGS AND COMPRESSION ADAPTER FITTINGS.
- 16. PROVIDE COMPRESSION SERIES FITTINGS FOR TUBING TO TUBING CONNECTIONS AND CONNECTIONS TO PVC PIPING AS INDICATED IN THE **EQUIPMENT LEGEND THIS SHEET**

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DEL MONTE FOREST PRESERVATION AND DEVELOPMENT PLAN AREA D INCLUSIONARY HOUSING

AREA D

GENERAL LANDSCAPE AND IRRIGATION NOTES

No.1413

THIN

DATE: <u>JULY 26 2013</u>



