

450677-1-52-01 SR 5 / US-1 from Silver Beach to Palmetto – Landscape Maintenance Estimate (High Cost Option)						
MAINTENANCE DESIGN NARRATIVE						
<p>This level of design would reflect the highest level of aesthetics but would also require the highest level of maintenance for the corridor's landscape and irrigation. The plant palette consists of a variety of accent palms, accent trees, and canopy trees. A majority of the accent trees and palms are low maintenance. The Medjool Date Palms would require annual pruning to maintain appearance, remove dead, fronds, and to remove the fruit. The tree species could be pruned at the Town discretion, though this is not required outside of maintaining vertical clearances over the travel lanes. The design utilizes a variety of shrubs to provide a mix of different color and sizes. Some of the shrubs will require monthly to quarterly trimming to maintain appearance but will be less extensive during the winter months. Shrub beds will be hand weeded monthly and completely remulched within a two-year cycle (maximum) or yearly (minimum) depending on the preference of the Town. To maintain the health and vigor of the landscape, fertilizer will be applied to the palms, trees, and sod twice a year and disease and pest control will be applied as needed however a majority of the species planted are highly pest and disease resistant. This estimates represents an estimate of costs only for initial planning and comparison purposes, and the Town is encouraged to submit the plans to actual landscape maintenance contractors or to coordinate with their preferred contractor or public works staff to obtain accurate quotes.</p>						
Plant Palette						
<p>Canopy Trees: Live Oak</p> <p>Live Oak Alternatives: Gumbo Limbo Pros: Good Canopy Size, Smooth Red-Copper Bark, Sculptural/Architectural Growth, Native, Salt/Drought Tolerant, Annual leaf drop is typically less than Live Oak. Cons: Susceptible to some disease, Small flowers/Not Showy, Still has potential for long term root impact of median curbs though slightly less aggressive than Live Oak, Semi-deciduous.</p> <p>Green Buttonwood Pros: Less aggressively rooted, evergreen year-round, highly salt tolerant coastal species, high drought tolerance. Cons: Older trees can look “gnarled” and have an irregular growth with highly fissured trunks, bloom/fruit drop can discolor or stain concrete though it is not as heavy as some species, Root Barrier still recommended, Can be more wind prone than the other two species.</p> <p>Accent Trees: Crape Myrtle Trees</p> <p>Palms: European Fan, Blue Latan, Solitaire, Medjool, Scheffer's, Sabal, Thatch, and Montgomery Palms</p> <p>Shrubs (Requiring Pruning): Dwarf Cocoplum, Green Island Ficus, Dwarf Firebush, Dwarf Variegated Schefflera</p> <p>Shrubs (No Pruning Required): Borcamo Juniper, Mubly Grass, Coontie</p>						
Approximate Landscape Maintenance Activities, Units, & Cost						
Item	Qty	Length	Event Rate	Freq/Year	Annual Total	Remarks
Monthly Event						
Trimming and Hand Weeding of Shrub Beds (SF/LF)	6286	1275	\$ 2,000.00	12	\$ 24,000.00	Less extensive in winter months. Estimate on High end due to several species not requiring pruning.
Disease & Pest Control	As needed throughout site		\$ 50.00	12	\$ 600.00	Based on \$50/month (Product Costs) - As needed, (Majority of pest & disease resistant) Labor included in the Trimming/Pruning Event.
Litter Removal & Mowing - Small Machine (AC)	0.205		\$ 250.00	12	\$ 615.00	Based on 1 guy on small mower, 1 guy with edger, and 1 guy with blower. (\$250/AC/Event)
Irrigation Repair and Upkeep	As needed throughout site		\$ 300.00	12	\$ 3,600.00	Minor Repair of Heads or Spray Nozzles per Month. Includes performance testing of system. Does not include monthly electric cost.
Monthly Event Cost Per Year:					\$ 28,815.00	
Biannual Event						
Fertilization - Palms and Trees (EA)	128		\$ 1,020.00	2	\$ 2,040.00	Based on 128 trees/palms x 5lb avg. each = 640 lbs/40 =16 bags x \$55each = \$880 + 2 guys (\$35/hr x 2 hrs) = \$140 labor \$1,265 material + \$140 labor = \$1,020 total cost
Fertilization - Sod (SF)	27,000		\$ 440.00	1	\$ 440.00	Based on 27000 SF of Sod at 3lb/1000 SF = 81lbs/42 = 2 bags x \$80each = \$160, 2 guys (\$35/hr x 4 hrs) = \$280 labor \$160 material + \$140 labor = \$440 total cost
Biannual Event Cost Per Year:					\$ 2,480.00	
Annual Event						
Tree Pruning (Trees and Non-Shedding Palms, EA)	26		\$ 100.00	1	\$ 2,600.00	Based on 26 trees, \$100 per tree. Includes mix of all Canopy Trees and large/small palms.
Mulching (SF)	6286		\$ 1,605.00	1	\$ 1,605.00	1,572 CF of Mulch, 786 Bags per complete remulch. Every other year. 393 bags utilized per year, 2CF per bag @ \$2.66/bag = \$1045.38 + 2 guys, 8 hrs, \$35/hr = \$560 (\$1,605 total per year)
Contingency, (Insurance, 3rd Party Damage, Post Storm Clean Up)			\$ 150.00	12	\$ 1,800.00	Does not include extensive plant replacement
Annual Event Cost:					\$ 6,005.00	
Grand Total:					\$ 37,300.00	
Annual Cost Escalation (Inflation):					\$ 1,119.00	Assumes 3% inflation per year
Projected 2030 Annual Cost:					\$ 40,657.00	Assumes Town maintenance commences January 2030

NOTES:
All landscape will be maintained by installation contractor for a 2-year Establishment Period after installation is complete, (Town maintenance will not commence until approximately Summer of 2030).

450677-1-52-01 SR 5 / US-1 from Silver Beach to Palmetto - Landscape Maintenance Estimate (Mid Cost Option)						
MAINTENANCE DESIGN NARRATIVE						
<p><i>This level of design reflects a medium/high level of aesthetics while requiring a medium level of maintenance for the corridor's landscape and irrigation. The plant palette consists of a variety of accent palms, accent trees, and canopy trees. The majority of the accent trees and palms are low maintenance. The Medjool Date Palms would require annual pruning to maintain appearance, remove dead, fronds, and to remove the fruit. The tree species could be pruned at the Town discretion, though this is not required outside of maintaining vertical clearances over the travel lanes. The design utilizes a variety of shrubs to provide a mix of different color and sizes. A fraction of the shrubs will require monthly trimming to maintain appearance but will be less extensive during the winter months. Shrub beds will be hand weeded monthly and completely remulched within a two-year cycle. To maintain the health and vigor of the palms, palm fertilizer will be applied twice a year. Disease and pest control will be applied as needed however a majority of the species planted are highly pest and disease resistant. The medium level of maintenance would aim to reduce the amount of shrub beds requiring pruning, and focus more on species that can grow to maximum heights. This estimates represents an estimate of costs only for initial planning and comparison purposes, and the Town is encouraged to submit the plans to actual landscape maintenance contractors or to coordinate with their preferred contractor or public works staff to obtain accurate quotes.</i></p>						
Plant Palette						
<p>Canopy Trees: Live Oak (or alternate selected from the list provided on the High Cost Option)</p> <p>Accent Trees: Crape Myrtle</p> <p>Palms: European Fan, Blue Latan, Solitaire, Medjool, Scheffer's, Sabal, Thatch, and Montgomery</p> <p>Shrubs (Requiring Pruning): Dwarf Cocoplum, Green Island Ficus, Dwarf Firebush, Dwarf Variegated Schefflera</p> <p>Shrubs (No Pruning Required): Parsons Juniper, Muhly Grass, Coontie</p>						
Approximate Landscape Maintenance Activities, Units, & Cost						
Item	Qty	Length	Event Rate	Freq/Year	Annual Total	Remarcks
Monthly Event						
Trimming and Hand Weeding of Shrub Beds (SF/LF)	6286	638	\$ 1,500.00	12	\$ 18,000.00	Less extensive in winter months. Estimate based on species requiring pruning. Species not requiring pruning would be covered by edging/mowing operations.. Medium costs based on a reduction (revised design) of the shrub species requiring trimming.
Disease & Pest Control	As needed throughout site		\$ 40.00	12	\$ 480.00	Based on \$40/month (Product Costs) - As needed, (Majority of pest & disease resistant) Labor included in the Trimming/Pruning Event.
Litter Removal & Mowing - Small Machine (AC)	0.205		\$ 250.00	12	\$ 615.00	Based on 1 guy on small mower, 1 guy with edger, and 1 guy with blower. (\$250/AC/Event)
Irrigation Repair and Upkeep	As needed throughout site		\$ 275.00	12	\$ 3,300.00	Minor Repair of Heads or Spray Nozzles per Month. Includes performance testing of system. Does not include monthly electric cost.
Monthly Event Cost Per Year:					\$ 22,395.00	
Biannual Event						
Fertilization - Palms Only (EA)	104		\$ 815.00	2	\$ 1,630.00	Based on 104 trees/palms x 5lb avg. each = 520 lbs/40 = 13 bags x \$55each = \$715 + 2 guys (\$35/hr x 2 hrs) = \$140 labor \$715 material + \$140 labor = \$815 total cost
Biannual Event Cost Per Year:					\$ 1,630.00	
Annual Event						
Tree Pruning (Oaks and Non-Shedding Palms, EA)	14		\$ 150.00	1	\$ 2,100.00	Based on 14 trees, \$150 Per Tree. Structural Prune for Oak Clearance/Sight Lines only, and all Non-Shedding Palms.
Mulching (SF)	6286		\$ 1,605.00	1	\$ 1,605.00	1,572 CF of Mulch, 786 Bags per complete remulch. Every other year. 393 bags utilized per year, 2CF per bag @ \$2.66/bag = \$1045.38 + 2 guys, 8 hrs, \$35/hr = \$560 (\$1,605 total per year).
Contingency, (Insurance, 3rd Party Damage, Post Storm Clean Up)			\$ 125.00	12	\$ 1,500.00	Does not include extensive plant replacement
Annual Event Cost:					\$ 5,205.00	
Grand Total:					\$ 29,230.00	
Annual Cost Escalation (Inflation):					\$ 876.90	Assumes 3% inflation per year
Projected 2030 Annual Cost:					\$ 31,860.70	Assumes Town maintenance commences January 2030

NOTES:
All landscape will be maintained by installation contractor for a 2-year Establishment Period after installation is complete, (Town maintenance will not commence until approximately Summer of 2030).

450677-1-52-01 SR 5 / US-1 from Silver Beach to Palmetto - Landscape Maintenance Estimate (Low Cost Option)						
MAINTENANCE DESIGN NARRATIVE						
<p><i>This level of design reflects a lower level of aesthetic treatment, while still improving the corridor, and would require a low level of maintenance for the corridor's landscape and irrigation. The plant palette consists of a variety of accent palms, accent trees, and canopy trees. The accent trees, palms, and shrubs are low maintenance. High-maintenance palm species would be eliminated and only the tougher, low-maintenance species would remain. The Medjool Date Palms would remain to preserve consistency along the corridor, and would require annual pruning and fertilization, though these could also be eliminated to further reduce the maintenance requirement. The tree species would only be pruned to maintain vertical clearances over the travel lanes. The design utilizes a restricted variety of shrubs that are low maintenance and do not require trimming (annual cut back is optional). Area of bed space would also be reduced significantly to further limit maintenance. Shrub beds will be hand weeded monthly. The entire project shall be remulched on a two-year cycle or a partial 1.5" layer refresh per year. Disease and pest control will be applied as needed however a majority of the species planted are highly pest and disease resistant. This estimates represents an estimate of costs only for initial planning and comparison purposes, and the Town is encouraged to submit the plans to actual landscape maintenance contractors or to coordinate with their preferred contractor or public works staff to obtain accurate quotes.</i></p> <p><i>Though not quoted at this time, maintenance could be further reduced to the bare minimum, by eliminating all shrub beds, and utilizing an Only Trees, Irrigation, and Sod (OTIS) approach. Native canopy trees, native palms, limited accent flowering trees, and sod would be planted minimizing all input from the Town, limiting efforts to irrigation maintenance and mowing/litter removal.</i></p>						
Plant Palette						
<p>Canopy Trees: Live Oak (or alternate selected from the list provided on the High Cost Option)</p> <p>Accent Trees: Crape Myrtle</p> <p>Palms: Solitaire, Medjool, Sabal, Thatch, and Montgomery</p> <p>Shrubs (No Pruning Species Only): Parsons Juniper, Muhly Grass, Fakahatchee Grass, Coontie</p>						
Approximate Landscape Maintenance Activities, Units, & Cost						
Item	Qty	Length	Event Rate	Freq/Year	Annual Total	Remarcks
Monthly Event						
Hand Weeding of Shrub Beds (SF/LF)	6286		\$ 750.00	12	\$ 9,000.00	Less extensive in winter months. Estimate assumes a full design revision to utilize only species that do not require monthly pruning.
Disease & Pest Control	As needed throughout site		\$ 25.00	12	\$ 300.00	Based on \$25/month (Product Costs) - As needed, (Majority of pest & disease resistant) Labor included in the Weeding Event.
Litter Removal & Mowing - Small Machine (AC)	0.205		\$ 300.00	12	\$ 738.00	Based on 1 guy on small mower, 1 guy with edger, and 1 guy with blower. (\$250/AC/Event)
Irrigation Repair and Upkeep	As needed throughout site		\$ 200.00	12	\$ 2,400.00	Minor Repair of Heads or Spray Nozzles per Month. Includes performance testing of system. Does not include monthly electric cost.
Monthly Event Cost Per Year:					\$ 12,438.00	
Annual Event						
Palm Pruning (Non-Shedding Palms Only)	2		\$ 250.00	1	\$ 500.00	Based on 2 Medjool Date Palms, \$250 per pruning event, Assumes 1 prune per year.
Mulching (SF)	6286		\$ 1,360.00	1	\$ 1,360.00	1,200 CF of Mulch, 600 Bags per complete remulch. Every other year. 300 bags utilized per year, 2CF per bag @ \$2.66/bag = \$798 + 2 guys, 8 hrs, \$35/hr = \$560 (Rounded to \$1,360 total per year)
Contingency, (Insurance, 3rd Party Damage, Post Storm Clean Up)			\$ 100.00	12	\$ 1,200.00	Does not include extensive plant replacement
Annual Event Cost:					\$ 3,060.00	
Grand Total:					\$ 15,498.00	
Annual Cost Escalation (Inflation):					\$ 464.94	Assumes 3% inflation per year
Projected 2030 Annual Cost:					\$ 16,892.82	Assumes Town maintenance commences January 2030

NOTES:
All landscape will be maintained by installation contractor for a 2-year Establishment Period after installation is complete, (Town maintenance will not commence until approximately Summer of 2030).