

# *McGee & Associates*

Landscape Architecture

**Project:** LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U.      **Landscape Observation Report:** February 2017 – March 2017  
**Location:** MSTU DISTRICT ROADWAYS  
**Project Manager:** Collier County Public Services Division, Public Transportation & Neighborhood Enhancements Department  
**Consultant:** McGee & Associates      **Consultant's Representative:** Michael A. McGee, rla, isa  
**Contractor:** Commercial Land Maintenance      **Contractor's Representative:** Robert Kindelan  
**Report Date:** FY16-17, 03/07/17      **Observation Date:** 03/07/17      **Report No. 6**

**AC** - Indicates major or repeating items recommended to be discussed by the Advisory Committee

**S** - Indicates items to be addressed by staff.    **C** - Indicates items to be addressed by Contractor

Contractor is requested to address items as soon as possible and indicate in **RESPONSE/COMMENTS** column when and which items are corrected.

**Note:** Copy picture out of comment boxes and then paste to additional sheet if picture is desired in larger size.

<u>LOCATION/WORK AREA</u>	<u>AC</u>	<u>S</u>	<u>C</u>	<u>R</u>	<u>OBSERVATION &amp; RECOMMENDATIONS</u>	<u>RESPONSE or COMMENTS</u>
<b>All locations</b>						
			X		It is recommended that during the next scheduled major palm tree pruning that all the Sabal palms with loosing boots have the boots removed during the pruning. Contractor should provide unit price proposal for this added service.	
<b>St. Andrews Blvd. &amp; US 41 In bound R/W South</b>						
<b>At Pandanus tree</b>	X		X	2	Recommend removing declined Xanadu Philodendron and replant area with (16) 3 gal. Spider Lily.	
<b>At west side of Shopping Center Dr.</b>	X		X	2	Recommend on the center side of sidewalk between the driveway and light pole remove existing Xanadu Philodendron and replace with (30) 3 gal. Spider Lily.	
			X	3	(5) Flax lily plants are dead and/or missing behind the roadside bench at the newsstand area.	
<b>US 41 to 2nd newsstand Driveway</b>			X	14	Between shopping center driveway and Tuscan Villa driveway turf on north side of sidewalk contains large amounts of broadleaf weeds that need to be treated.	
			X	22	On road side of sidewalk all turf areas are 95 to 100% weeds and needs to be removed and replaced.	M&A: 09/21/15 From the US 41 sign to the newsstand area driveway all the turf needs to be removed and replaced due to weeds. M&A: 02/22/16 Some areas have been addressed, but additional areas need removal and replacement of turf. M&A: 03-21-16 West of shopping center driveway 120 S.F. area of weeds and no turf. M&A: 2/8/17 US 41 to Shopping center drive between sidewalk & valley gutter 2 areas of approx.. 175 s.f. of turf area is 90% weeds.
<b>Shopping center side of sidewalk</b>						

**Design \* Environmental Management \* Planning \* Arborist**

5079 Tamiami Trail East / P. O. Box 8052 Naples, Florida 34101  
 Phone (239) 417-0707 \* Fax (239) 417-0708  
 LC 098 \* FL 1023A

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<u>Out bound R/W North</u>		X	X	6	FPL work to relocate power pole has removed a number of dwarf Bougainvillea shrubs. Count and proposal needed to replace. (photo[MAM1])	M&A: 2/8/17 Plantings on hold until FPL work and Committee renovation analysis is complete.
<u>US 41 Entry Sign</u>						
<u>Suncoast Credit Union side of sidewalk</u>			X	19	Remove all turf weed filled turf areas along sidewalk edge and mulch areas.	
<u>St. Andrews Blvd. Median #1</u>			X	9	The turf on the east end contains large amount of sedge and/or Bermuda grass that needs to be addressed.	M&A: 2/8/17 Approx. 273 s.f. on east end and 65 s.f. on the north side of the median has turf area containing 90% or more weeds and Bermuda grass and should be replaced.
<u>Median #2</u>			X	22	Broadleaf type weeds are spreading in the turf.	M&A: 8/24/15 Over 50% of the turf area in this median is in decline, dead or has broadleaf and sedge type weeds. Recommend to remove and replace. M&A: 2/8/17 285 s.f on the south side, 105 s.f on the east end and 144 s.f on the north side of the median has turf areas that contain 90% or more weeds and should be replaced.
			X	23	Small turf area on south side of median needs to be reviewed for replacement.	M&A: 6/22/15 The bad turf areas in this median as increased to about 370 sq. ft. that needs to be replaced. P.M. 8-12-15 Submit proposal M&A: 02/22/16 Some areas have been addressed, but additional areas need removal and replacement of turf. M&A: 3/21/16 A 21' x 6' turf area on the east end and a 40' x 3' turf area on the north side of the median need to be treated for broadleaf weeds and reviewed for turf replacements
<u>Median #3</u>			X	9	The west end Holly tree is dead and the middle Holly tree is in decline. It is recommended remove both trees and replant as follows: On the west end replant with Queen's Crape Myrtle, Lagerstroemia speciosa at 4" cal., ≥ 10' ht., ≥ 6' crown dia., ≥ 40" dia. B&B root ball, container volume ≥ 100 gal. In the middle replant with a Tabebuia impetiginosa 'Ipe', Purple Trumpet tree at 5" cal., ≥ 12' ht., ≥ 7' crown dia., ≥ 44" dia. B&B root ball, container volume ≥ 100 gal., Fla. #1 grade	M&A: 8/8/16 Replacement approved installation being scheduled. M&A: 12/7/16 The Queen's Crape myrtle trees planted are 8' & 9' Oa. Ht. with 1" calipers @12" above root balls. The exposed root balls measured about 18" to 20" in dia. The planted trees do not meet the Florida Grades & Standards Florida #1 grade caliper size for 15 gal. or above container size trees.
			X	22	20' long x median width turf area is full of broadleaf weeds.	M&A: 8/24/15 147 L.F. area of turf between the Bougainvillea and Plumbago contains dead spots and various broadleaf and grass type weeds. Recommend reviewing for removal and replacement and spray treatment for broadleaf and sedge type weeds. M&A: 09/21/15 All the turf in the median should be removed

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						and replaced due to weeds. M&A: 4/25/16 The eastern half of the median's turf contains broadleaf weeds and needs to be treated. The western half of the median's turf still should be removed and replaced due to weeds and Bermuda grass. M&A: 2/8/17 It is recommended at this point that all the turf areas within the median be removed and replaced due to weeds and/or Bermuda grass.
<b>Median #4</b>						
<b>Median #5</b>			X	3	At address 140: Remove and replace dead replacement Juniper.	
			X	19	At address 152: Lightning strike on adjacent Washingtonia palms has caused two branches of the Queen's crape myrtle tree to have dead foliage. Recommend reviewing to see if foliage falls and resets.	M&A: 3/21/16 The dead branches need to be cut out of the tree. M&A: 6/10/16 Two dead Firebush need to be installed 3 gal., Removed Washingtonia palm stump needs to be grinded down, Prune large dead branch out of Queen's Crape myrtle.
<b>Median #6</b>			X	4	At address 256: West Foxtail palm has Ganoderma fungus. Monitor on weekly basis.	
<b>Median #7</b>						
<b>Median #8</b>						
<b>Median #8A</b>						
<b>Median #9</b>			X	3	At address 381: Ilex (Holly) tree needs to have canopy lifted and pruned back out of travel lane.	
			X	21	Schedule canopy lift pruning for Queen's Crape myrtle tree at address 376 & 355. After current blooming	
			X	11	Review and prune Queen's crape myrtle and Holly trees to cutback and/or lift lower canopy away from travel lanes. After current blooming	M&A: 3/7/17 Partially pruned.
<b>Median #10</b>			X	21	The easternmost Holly tree needs canopy lifted 3 ft. +/-	
<b>Forrest Hills Blvd</b>						
<b>Median #11</b>						
<b>Median #12</b>			X	3	Two of the three Holly trees need to have additional pruning performed to remove and direct growth out of the travel lanes.	
			X	19	(1) replacement Juniper on north end is dead and needs to be replaced.	M&A: 1/11/17 Plant has been removed and new one replanted.
<b>Forest Hills Cart Crossing &amp; Lake Valley Stream Cr. Median #13</b>						
<b>Pebble Beach Blvd.</b>	X	X	X	7	It is recommended to repaint median end curbing with yellow paint, as well as repaint and the median numbers.	

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Median #14			X	13	On the south end, east side there are two or three missing dwarf red Crown of thorn. It appears to be from auto damage.	M&A: 2/8/17 Prune out damaged foliage and determine replacements needed.
Median #15						
Median #16	X	X	X	8	At address 59: The middle Holly tree is in decline apparently due to a decaying main trunk hole due to previous pruning cut that did not heal and/or a large hole exposing the root system at the base of the tree created apparently by an animal. (photo[MM2]) It is recommended to remove the tree and replace with a Queen's Crape Myrtle, Lagerstroemia speciosa at 4" cal., ≥ 10' ht., ≥ 6' crown dia., ≥ 40" dia. B&B root ball, container volume ≥ 100 gal.	M&A: Proposal being requested.
			X	18	On north end one replacement Juniper is dead and needs to be replaced.	
Median #17						
Median #18			X	12	It is recommended to have some soil samples taken and sent for analysis in the areas where the Bougainvillea are yellowing. The yellowing foliage is consistent with Nitrogen deficiency. In lieu of a soil test it is recommended to apply an 8-10-10 shrub fertilizer at a rate of 2 to 4 pounds per 100 sq. ft.	M&A: 4/25/16 Before and after fertilization additional watering by drip or tanker would be recommended.
			X	50	South end Bougainvillea bed at first Ilex tree replace (2) 3 gal. dwarf Bougainvillea 'Helen Johnson' shrubs.	Provide proposal. P.M. 8-12-15 Submit proposal, M&A: 2/8/17 Recommend replacement proposal.
Median #19	X	X	X	7	Due to previous auto accident & general old age decline of the Juniper plants on the northeast end. It is recommended to replant the end with Perennial Peanut 'Ecoturf'. It should require five rows of 13 plants for a total of 65 plants spaced 1.5' o.c., 30" off back of curbing.	
Pebble Beach Blvd. Golf Cart Crossing	X		X	5	All four of the Flax lily beds have over 50% of the plants in heavy decline, dead or missing. Please review for cause, address and replant. Recommend when plants are installed that they be planted one inch above surrounding finished grade. (photo[MM3][MM4][MM5][MM6])	M&A; Recommend replanting with 3 gal. Spider Lily plants.
Thorncrest Ln. cul-de-sac #20			X		Sabal palm is in severe decline and removal is recommended.	
			X	7	Recommended to repaint median number on curbing.	
Briarcliff Ln. Cu-de-sac #21			X	7	Recommended to repaint median number on curbing.	
Heather Grove Ln. Cul-de-sac #22			X	7	Recommended to repaint median number on curbing.	
Baltusrol Signs						
Doral Cr.						
West R/W & Rattlesnake Hammock Rd.			X	4	31+/- Blueberry Flax lilies are declined, dead and/or missing in the bed along Rattlesnake hammock Rd. These plants were planted and maintained by the contractor. Replacements should be installed.	
	X	X	X	21	Live Oak, Silver Buttonwood and Carrotwood trees hanging over the Podocarpus hedge on the east end along Rattlesnake Hammock need to be pruned back and/or upward to	M&A: 6/10/16 Trees on east end of hedge are overhanging less than ten feet over the sidewalk and

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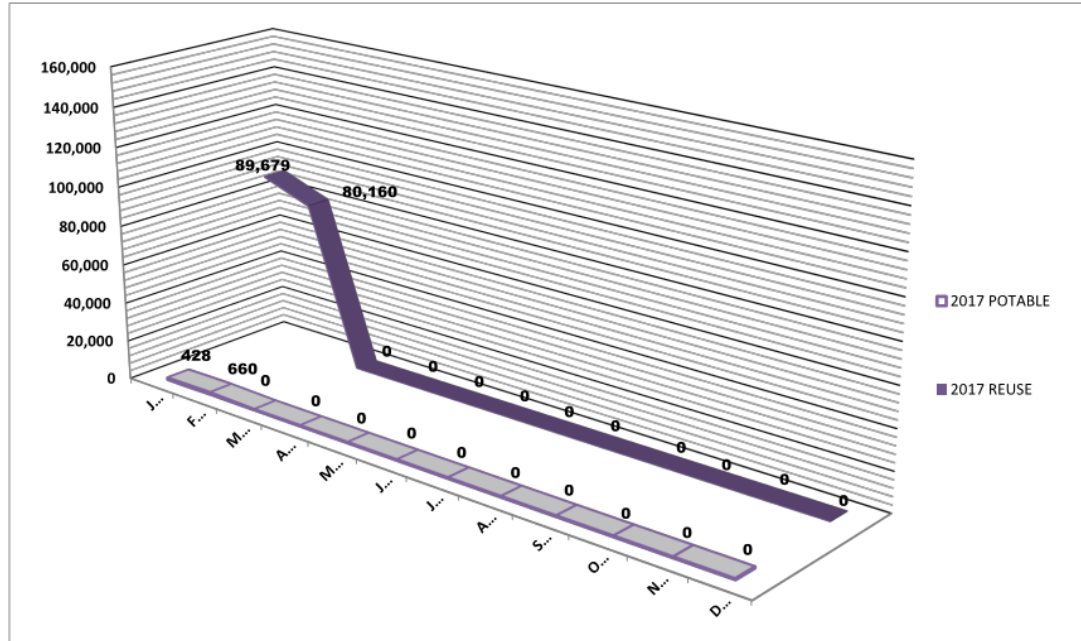
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					remove the canopy over the hedge.	they should be pruned up and back to the R/W line or fence. M&A: 9/5/16 Pruning to be addressed through code enforcement.
Median #23			X	4	The previous Foxtail palm removal location has settled and more soil and mulch is needed.	
			X	20	Please monitor the northernmost Foxtail palm because it has no apparent center (spear like) from emerging from the bud.	M&A: 10/12/16 Recommend removal by excavation and fill hole and mulch. M&A; 12/7/16 Palm will be continued to be reviewed monthly until spring. M&A: new center frond is emerging.
			X	21	(4) 1 gal. Lantana montevidensis need to be installed in bed on north end of median. Lavender Weeping' color is recommended.	P.M. 8-12-15 Submit proposal, M&A: 10/12/16 4 additional plants are needed for a total of 8. M&A: 12/7/16 It is recommended to remove remaining Lantana and replant area with (3) 3 gal. dwarf Bougainvillea and (30) 1 gal. Perennial peanut
			X	22	<del>Two</del> Six (6) Ixora plants need to be replaced toward south end of median.	Provide proposal. P.M. 8-12-15 Submit proposal. M&A: 02/22/16 Four or five new shrubs were planted, but (6) additional are needed.
Median #24 Treasure Point Cul-de-sac			X	18	To be consistent with the other medians it is recommended to stencil on the curbing the median number (24).	
Fertilization:			X		Refer to FY16-17 schedule for next fertilization.	
Reuse Pump Station- Warren St.			X		February 2017: Potable water use 660 gallons; Reuse water use 80,160 gallons.	

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Lely Golf Estates Beautification MSTU Reuse Mixing Chamber Annual Water Use thru 2/17



DATE	DAY	TIME	REUSE PSI	POTABLE WATER METER READING (X 1)	POTABLE WATER USE GALLONS	REUSE WATER METER READING (X x 100)	REUSE WATER USE GALLONS	TOTAL WATER APPLIED
2/1/2017	W	9:00 AM	6	16,768.45		72,288.50		-
2/6/2017	M	8:30 AM	8	16,768.42	(0.03)	72,306.85	1,835.00	1,834.97
2/14/2017	M	9:00AM	7	16,993.10	224.68	72,631.95	32,510.00	32,734.68
2/20/2017	M	9:00 AM	7	17,129.10	136.00	72,788.45	15,650.00	15,786.00
3/1/2017	M	9:00 AM	5.5	17,428.55	299.45	73,090.10	30,165.00	30,464.45
					<b>TOTALS:</b>	<b>660.10</b>	<b>80,160.00</b>	<b>80,820.10</b>
					<b>PERCENTAGE OF TOTAL VOLUME USED</b>	<b>0.8%</b>	<b>99.2%</b>	

DATE	DAY	TIME	POTABLE WATER METER READING (X x 100)	POTABLE WATER USE GALLONS	BERMAD WATER METER READING (X x 100)	BERMAD POTABLE WATER USE GALLONS
2/1/2017	W	9:00 AM	532700.20		70,418.32	
2/6/2017	M	8:30 AM	543430.62	10730	70,518.15	9983
2/14/2017	M	9:00 AM	552000.70	8570	70,599.08	8093
2/20/2017	M	9:00 AM	554280.30	2280	70,620.55	2147
3/1/2017	M	9:00 AM	561160.55	6880	70,685.53	6498
			<b>TOTALS:</b>	<b>28,460</b>		<b>26,721</b>

Notes: 2014 Total Water Use: Reuse-2,336,976 gallons, Potable- 0  
 2015 Total Water Use: Reuse - 1,795,449 gallons, Potable - 8,602 gallons  
 09/2016 Potable water meter readings not complete. 11/9/16 Meter cleaned and readable  
 2016 Total Water Use: Reuse 936,041 gallons, Potable 7,788 gallons.

3/6/2017