

GOLDEN GATE BEAUTIFICATION M.S.T.U.

**3299 Tamiami Trail East, Suite 103
Naples, FL 34112**

AGENDA

JANUARY 21, 2019

I. CALL TO ORDER

II. ATTENDANCE

Advisory Committee Patricia Spencer – Chair (10/06/2021)
Paula Rogan – Vice Chair (10/06/2019)
Florence “Dusty” Holmes (10/06/2021)
Ron Jefferson (10/06/2022)
- Vacancy -

Staff Michelle Arnold – PTNE Director
Dan Schumacher, Harry Sells – Project Managers

Contractors Mike McGee – Landscape Architect (McGee & Assoc)
Armando Yzaguirre – Grounds Maintenance (A&M Property Maint)

III. PLEDGE OF ALLEGIANCE

IV. APPROVAL OF AGENDA

V. APPROVAL OF MINUTES **DECEMBER 17, 2019**

VI. LANDSCAPE MAINTENANCE REPORT – A&M PROPERTY MAINTENANCE

VII. LANDSCAPE ARCHITECT’S REPORTS – M^CGEE & ASSOCIATES

- A. **Tropicana** Boulevard**
- B. **Sunshine** Boulevard**
- C. **Coronado** Parkway & **Hunter** Boulevard**
- D. **Collier** Boulevard, **Golden Gate** Parkway**

VIII. PROJECT MANAGER’S REPORT

- A. Budget **Report**.**
- B. Multi-year Contract - Grounds Maintenance.**
- C. Mulch.**
- D. Welcome Sign – Collier Blvd (South)**

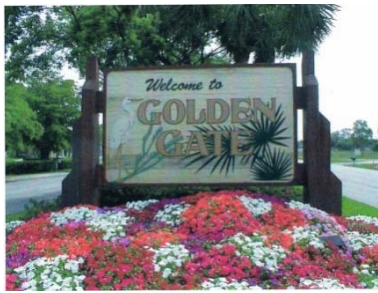
IX. OLD BUSINESS

X. NEW BUSINESS

XI. PUBLIC COMMENTS

XII. ADJOURNMENT

**NEXT MEETING:
FEBRUARY 18, 2020 AT 4:30PM
GOLDEN GATE COMMUNITY CENTER**



GOLDEN GATE M.S.T.U. ADVISORY COMMITTEE

**3299 East Tamiami Trail, Suite 103
Naples, FL 34112
DECEMBER 17, 2019**

MINUTES

I. Call to Order

The meeting was called to order at 4:31 P.M. by Ms. Spencer. Attendance was called and a quorum of four was present.

II. Attendance

Advisory Committee	Patricia Spencer – Chair Paula Rogan Florence “Dusty” Holmes Ron Jefferson Vacancy
Staff	Dan Schumacher – Project Manager
Landscape	Mike McGee – Landscape Architect (McGee & Associates) Armando Yzaguirre – A & M Property Maintenance (Excused)
Other	Wendy Warren – Transcriptionist (Premier)

III. Pledge of Allegiance

The Pledge of Allegiance was recited.

IV. Approval of Agenda

*Ms. Spencer moved to approve the Agenda of the Golden Gate Advisory Committee as presented.
Second by Ms. Holmes. Carried unanimously 4 - 0.*

V. Approval of Minutes November 19, 2019

*Ms. Spencer moved to approve the minutes of the November 19, 2019 meeting as presented.
Second by Ms. Holmes. Carried unanimously 4 - 0.*

MINUTES

VI. Landscape Maintenance Report

Mr. Schumacher, Mr. McGee and Mr. Yzaguirre conducted the monthly MSTU drive-through on Dec-10 to review landscape maintenance of the medians, noting achievements made to date.

VII. Landscape Architect's Report – McGee & Associates

Mr. McGee summarized the “*Landscape Observation Report: - December 3, 2019*” noting the overall condition of the medians is good.

General

Comments highlighted in yellow are recommended to be addressed as soon as possible.

Fertilizer

Mr. Yzaguirre will be consulted regarding appropriate timing of fertilizer application.

Tropicana Boulevard

- Sabal Palms and hardwood trees should be pruned.
- The Restoration Project is complete and there are no issues with new plants.
- The WeatherTRAK controller indicated a level amount of water flow, reporting 91,307 gallons of usage for the period from November 3, 2019 to November 20, 2019.

Sunshine Boulevard

- Tree replacements specified in the Restoration Project will be addressed upon award of the new multi-year landscape contract.
- Sabal Palms require pruning including removal of lower and/or loose frond boots removed from the trunks.
- Recommend treatment of broad leaf weeds in turf with herbicide.
- Water usage of 149,152 gallons is normal.

Coronado Parkway and Hunter Boulevard

- Perennial Peanut ground cover has been trimmed with a “String Trimmer” and weeds treated with herbicide. Plant condition will be evaluated on future tours.
- Shrubs are doing well; additional plants to complete the renovation project are necessary.
- Combined water use as per WeatherTRAK Report was 100,540 gallons.

Collier Boulevard and Golden Gate Parkway (*These arterial roadways are maintained by the County*)

Annual well water use charts for these roadways for 2012 through November 2019 were distributed for informational purposes.

Mr. McGee reported the County requested proposals for two projects in the planning stages for the roadways:

- Median landscape design for Collier Boulevard from the Golden Gate Canal to Green Boulevard.
- Plant and/or tree replacements on Golden Gate Parkway from the Naples city limits, just west of the overpass, to Collier Boulevard.

MINUTES

Quotes –

Mr. Schumacher will solicit quotes as follows:

- Spreading of seventeen (17) pallets of mulch being stored at the Transit Station on Radio Road to the medians by the County approved vendor and schedule installation.
- Structural pruning of median trees by a certified arborist.

VIII. Project Manager's Report

A. Budget Report

Mr. Schumacher summarized the “*Golden Gate MSTU Fund Budget 153 dated December 17, 2019*” for information purposes and provided an overview of the budget noting:

- FY20 Ad Valorem property tax revenue budget is \$443,200.00, an increase of 9% over FY19. The Millage rate is 0.5000 mils.
- Total revenue FY20 is \$989,209.50 including investment interest, transfers and contributions (minus a 5% reserve of \$22,600).
- Current Operating Expense Budget, excluding Landscape Maintenance and Incidentals, is \$313,309.50 of which Commitments total \$107,374.43; Expenditures \$17,516.57.
- Uncommitted Operating Expense funds available are \$188,418.60.
- A & M Property Maintenance interim contract commitment balance is \$41,700.00; expenditures \$7,300.00
- Landscape Incidentals budget, Line 19, is \$30,000.00.
- A Purchase Orders for Green Effex in the amount of \$21,209.50 will remain active pending receipt of final invoices.
- Improvements General Fund, Line 35, reserved to fund capital projects, available balance is \$580,000.00.
- Total available balance, less committed expenses, is \$861,304.30.

B. Grounds Maintenance

Invitation to Bid (ITB) package (Landscape & Irrigation)

In accordance with County practice, an *Invitation to Bid ((ITB)* for a multi-year Landscape and Irrigation Maintenance contract, will be submitted to the Procurement Division for review and on approval be advertised to qualified contractors. The contract will be awarded by the Board of County Commissioners to the lowest qualified bidder.

Mr. Schumacher will update the Committee on the status of the contract at the next meeting.

C. Bridge Paint

Mr. Schumacher reported Wright Construction Group painted the U.S. 41 Golden Gate River bridge overpass in the Bayfront/Tin City vicinity.

Pending product research and confirmation of the number of bridges to be renovated, a budgetary quote will be sought to approximate the cost and scope for a project of this type. A base paint coat plus optional anti-graffiti coat for application to the Golden Gate bridges will be specified.

Approval of the project by the by the M.S.T.U. Advisory Committee would be contingent on an agreement with the county Road Maintenance Division to assume future maintenance of the painted surfaces.

MINUTES

IX. Old Business

Mr. Schumacher and Ms. Sillery have not received a response from Sunny Hertz to confirm interest in appointment to the Golden Gate M.S.T.U. Beautification Advisory Committee have not. Ms. Spencer will also reach out to Ms. Hertz. The Vacancy will be addressed at the January 2020 meeting.

X. New Business

None

XI. Public and Board Comments

Mr. Schumacher will review signage requirements for duplicate “Welcome to Golden Gate” signs to be erected on the west side Right-of-Way (ROW) of Collier Blvd. by the canal bridge and the first median north of Green Boulevard and update the Committee at the January meeting.

XII. Adjournment

There being no further business to come before the Committee, the meeting was adjourned by the Chair at 5:00 P.M.

GOLDEN GATE MSTU ADVISORY COMMITTEE

Patricia Spencer, Chair

The Minutes were approved by the Committee on _____, 2020 as presented _____, or as amended _____.

**NEXT MEETING:
JANUARY 21, 2020 – 4:30 PM
GOLDEN GATE COMMUNITY CENTER
4701 GOLDEN GATE PARKWAY
NAPLES, FL 34116**

**Golden Gate MSTU
FY20
01-21-2020**

	FY-20	Vendor	Item	PO#	Budget	Commitments	Expenditures	Budget Remainder
1	CUR AD VALOREM TAX				\$ (443,200.00)	\$ -	\$ (366,126.98)	\$ (77,073.02)
2	DEL AD VALOREM				\$ -	\$ -	\$ -	\$ -
3	OVERNIGHT INTEREST				\$ -	\$ -	\$ (1,006.73)	\$ 1,006.73
4	INVESTMENT INTEREST				\$ (8,000.00)	\$ -	\$ (3,463.69)	\$ (4,536.31)
5	INTEREST TAX COLLECTOR				\$ -	\$ -	\$ -	\$ -
6	INS CO REFUNDS				\$ -	\$ -	\$ -	\$ -
7	REVENUE STRUCTURE				\$ (451,200.00)	\$ -	\$ (370,597.40)	\$ (80,602.60)
8	TRANS FROM PROPERTY APPRAISER				\$ -	\$ -	\$ -	\$ -
9	TRANS FROM TAX COLLECTOR				\$ -	\$ -	\$ -	\$ -
10	CARRY FORWARD GEN				\$ (539,400.00)	\$ -	\$ -	\$ (539,400.00)
11	CARRY FORWARD OF ENCUMB				\$ (21,209.50)	\$ -	\$ -	\$ (21,209.50)
12	NEG 5% EST REV				\$ 22,600.00	\$ -	\$ -	\$ 22,600.00
13	TRANSFERS & CONTRIB				\$ (538,009.50)	\$ -	\$ -	\$ (538,009.50)
14	TOTAL REVENUE				\$ (989,209.50)	\$ -	\$ (370,597.40)	\$ (618,612.10)
15	WORKERS COMPENSATION				\$ 100.00	\$ 3.74	\$ -	\$ 96.26
16	PERSONNEL SERVICES				\$ 100.00	\$ 3.74	\$ -	\$ 96.26
17	ENG. FEES & OTHERS	McGee & Associates	Landscape Architect	4500199237	\$ 50,000.00	\$ 21,480.00	\$ 4,470.00	\$ 24,050.00
18	INDIRECT COST REIMBURSE	Collier County	Indirect Cost	Direct Pay	\$ 6,700.00	\$ 3,350.00	\$ 3,350.00	\$ -
19	LANDSCAPE INCIDENTALS	A&M Property Maint.	Incidentals		\$ 30,000.00	\$ -	\$ -	\$ 30,000.00
20		Green Effex	Roadway Median Replanting	4500196360		\$ 21,209.50	\$ -	
21		Green Effex	Grounds Maint.	4500200198		\$ -	\$ 3,577.28	
22		A&M Property Maint.	Grounds Maint. - Interim	4500200209		\$ 34,750.00	\$ 14,250.00	
23	OTHER CONTRACTUAL				\$ 171,209.50	\$ 55,959.50	\$ 17,827.28	\$ 97,422.72
24	ELECTRICITY	FPL	Electricity	4700004073	\$ 3,500.00	\$ 2,233.77	\$ 646.23	\$ 620.00
25	RENT EQUIPMENT	J.M. Todd	Shared Copier Lease	4500199713	\$ 300.00	\$ 133.06	\$ 133.06	\$ 33.88
26	INSURANCE GENERAL	Collier County	Insurance General	Direct Pay	\$ 600.00	\$ 300.00	\$ 300.00	\$ -
27		Stahlman England	Sprinkler System Repair	Visa Payment		\$ -	\$ 360.00	
28		FIS - Florida Irrigation Supply	Pumps & related items	4500200705		\$ 1,864.26	\$ 135.74	
29		Site One	Pumps & related items	4500200879		\$ 2,000.00	\$ -	
30	SPRINKLER SYSTEM				\$ 10,000.00	\$ 3,864.26	\$ 495.74	\$ 5,640.00
31	MULCH				\$ 16,000.00	\$ -	\$ -	\$ 16,000.00
32	LIGHTING MAINTENANCE	Hart's Electrical	Lighting Maintenance	4500198904	\$ 12,000.00	\$ 5,000.00	\$ -	\$ 7,000.00
33	LICENSE & PERMITS	Licenses & Permits	Collier County - Cartograph		\$ 2,000.00	\$ -	\$ -	\$ 2,000.00
34	OTHER MISCELLANEOUS	Premier Staffing	Transcriptionist	4500199301	\$ 3,000.00	\$ 2,009.95	\$ 490.05	\$ 500.00
35	OFFICE SUPPLIES		Office Supplies		\$ 300.00	\$ -	\$ -	\$ 300.00
36	COPYING CHARGES	J.M. Todd	Copier CPC	4500199712	\$ 300.00	\$ 496.31	\$ 52.91	\$ (249.22)
37	FERT HERB CHEM				\$ 7,000.00	\$ -	\$ -	\$ 7,000.00
38	OTHER OPERATING	Hydropoint data	Provide Irrigation Controller Sup	Visa Payment	\$ 200.00	\$ -	\$ 548.00	\$ (348.00)
39	OTHER TRAINING				\$ 200.00	\$ -	\$ -	\$ 200.00
40	OPERATING EXPENSE				\$ 313,309.50	\$ 94,826.85	\$ 28,313.27	\$ 190,169.38
41	IMPROVEMENTS GENERAL				\$ 580,000.00	\$ -	\$ -	\$ 580,000.00
42	CAPITAL OUTLAY				\$ 580,000.00	\$ -	\$ -	\$ 580,000.00
43	TRANS FROM 152 FUND TO 111 FUND		Reimbursement for Staff Support		\$ 52,600.00	\$ -	\$ -	\$ 52,600.00
44	TRANS FROM PROPERTY APPRAISER				\$ 4,200.00	\$ -	\$ 1,725.34	\$ 2,474.66
45	TRANS FROM TAX COLLECTOR				\$ 10,000.00	\$ -	\$ 7,572.53	\$ 2,427.47
46	TRANSFERS				\$ 66,800.00	\$ -	\$ 9,297.87	\$ 57,502.13
47	RESERVES FOR CONTINUING OPERATIONS - INSURANCE				\$ 29,000.00	\$ -	\$ -	\$ 29,000.00
48	RESERVES				\$ 29,000.00	\$ -	\$ -	\$ 29,000.00
49	TOTAL BUDGET				\$ 989,209.50	\$ 94,830.59	\$ 37,611.14	\$ 856,767.77

797,305,507	FY 10 Final Taxable Value	
548,992,684	FY 11 Final Taxable Value	
478,980,702	FY 12 Final Taxable Value	
516,253,177	FY 13 Final Taxable Value	
533,888,677	FY 14 Final Taxable Value	
575,541,732	FY 15 Final Taxable Value	
611,031,317	FY 16 Final Taxable Value	
673,743,701	FY 17 Final Taxable Value	
749,340,700	FY 18 Final Taxable Value	
813,136,298	FY 19 Final Taxable Value	
886,318,740	FY 20 Final Taxable Value	
9.00%	Adjustment FY19 to FY20	
	FY 20	FY 19
Millage	0.5000	0.5000
Extension	443,159	406,568
FY 20 Gross Taxable Value	886,318,740	
Minus: New Const. Annex.	4,123,285	
Plus: Amendment #1 TV Component	0	
Adj. Taxable Value	882,195,455	
Prior year FY19 Levy (Proceeds)	406,568	
Rolled Back Rate (less Amend One)	0.4609	
91% of Rolled Back Rate	0.4194	

0.5 mill cap

Total Available Balance	\$ 856,767.77
Plus Committed And Not Spent	\$ 94,830.59
Estimated Cash	\$ 951,598.36
Estimated Cash Less	
Uncollected Ad Valorem Taxes	\$ 874,525.34

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Landscape Architect Report: January 2020

Location: Tropicana Blvd.

Project Manager: Dan Schumacher, Collier County Public Services Department, Public Transportation & Neighborhood Enhancements Division

Consultant: McGee & Associates

Consultant's Representative: Michael A. McGee, rla, isa

Landscape Contractor:

Contractor's Representative:

Observation Date: 1/7/2020

Report Date: 12/03/2019

Report No.: 4 (FY-20)

AC - Indicates major items recommended to be discussed by Advisory Committee **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor

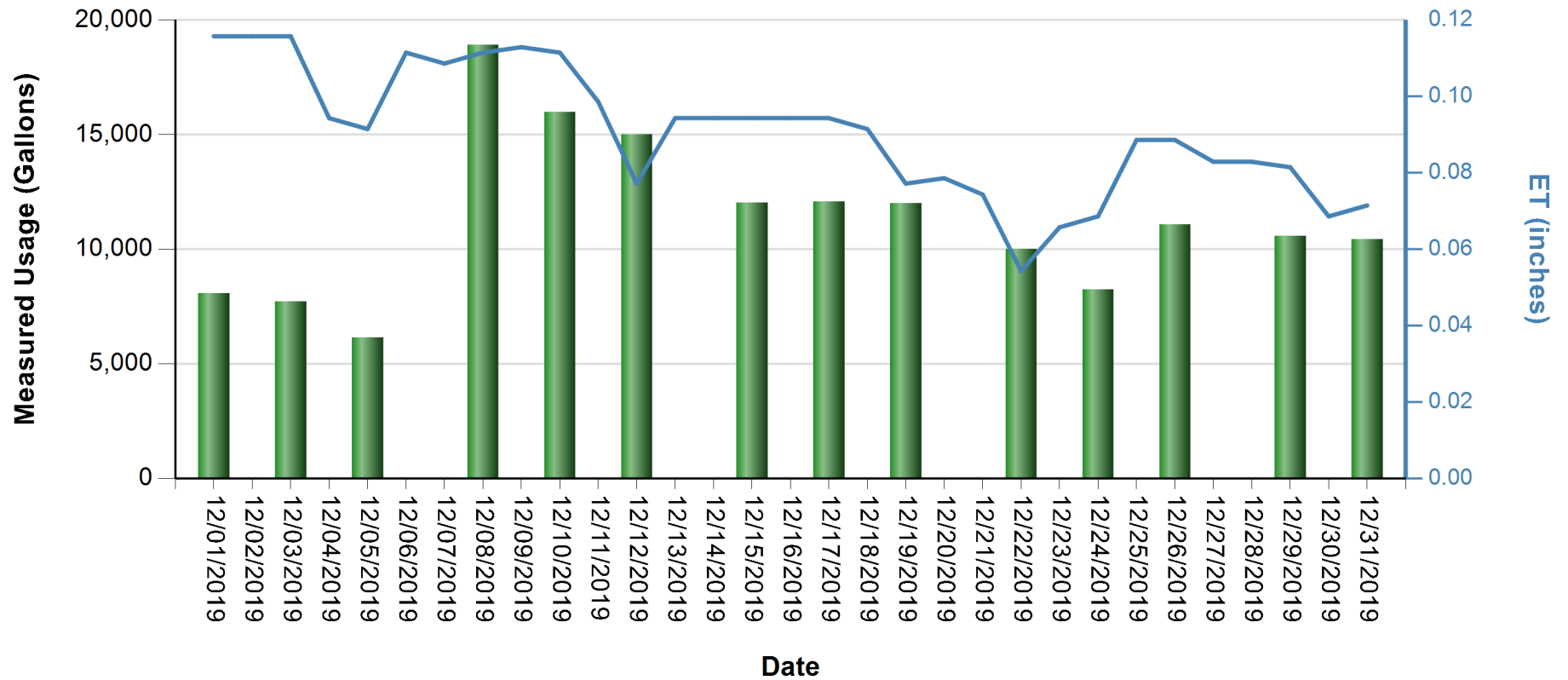
LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					MONTHLY ADDRESSED	Yellow - Items recommended to be addressed as soon as possible or renovation recommendations generally based upon vehicular or storm damage.
All locations:		X	X	26	Recommended all Sabal palms be pruned at this time and have any lower and/or loose frond boots removed from the trunks.	
	X	X		26	All paver areas need to be pressure washed.	M&A: Wet and Forget Product maybe tested
Median #1		X	X	26	First Oak tree needs structural and corrective pruning.	
Median #2		X	X	26	(3) Oaks need minor dead branch pruning.	
Pedestrian shelter at 31st Ave.SW						
Median #3 Bridge		X	X	10	Review Blueberry flax lily for insects/snails and/or disease due to the decline of the bed. Remove dead foliage and pull away any mulch in contact with plant bases.	M&A: 6/10/19 Recommend removing north side Flax lily and replant with Yellow African iris 1 gal., Approx. 36 plants 4' o.c., 4' off back of curbing and guard rail.
		X	X	26	North end Oak needs minor dead branch pruning.	
Median #4		X	X	26	At address 2900: Oak needs minor dead branch pruning	
Pedestrian Shelter at 28th Ave.SW						
Median #5		X	X	26	At address 2600: Oak 18" caliper, 50% damaged in main trunk from broken off large branch.	Recommend removal and replace. M&A: 7/9/18: Remove Oak tree and grind stump to planting depth and remove debris. Backfill any hole to match existing profile with clean native topsoil (3 c.y. +/-). Install (1) Quercus virginiana 'Cathedral' Live Oak 14'-16' ht., 7'-8' spr, 6"-7" cal., 44" B&B or 100 gal.
		X	X	26	At address 2582: Holly tree has upper trunk damaged. Needs structural and corrective pruning to regrow new main leader.	
		X	X	25	At address 2530: Jacaranda tree needs structural and corrective pruning.	
					QUARTERLY ADDRESSED	
Accent/Street Lighting					No major issue observed.	
Lighting Disconnect & Sensor Locations					East R/W between 13th Ave. & PL. Lighting Disconnect & Sensor West Alley off 28 th Ave. SW Lighting Disconnect & Sensor West R/W in Alley between G.G. Pkwy. & 26 th PL. SW, Lighting Disconnect & Sensor West R/W at corner of 30 th PL. SW & Tropicana Lighting Disconnect & Sensor	
Fertilizations:		X	X		Refer to FY-19-20 schedule.	
Irrigation:		X			Previous month water use total per WeatherTrak controller estimate data was 158,210 gallons.	

Single Controller Measured Usage History Report



Measured Usage per Day: 2001 Tropicana

12/01/2019 to 01/02/2020



Irrigation Category

- Scheduled
- Manual
- Other
- None (5.x)

McGee & Associates

Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Landscape Architect Report: January 2020

Location: Sunshine Blvd.

Project Manager: Dan Schumacher, Collier County Public Services Department, Public Transportation & Neighborhood Enhancements Division

Consultant: McGee & Associates

Consultant's Representative: Michael A. McGee, rla, isa

Landscape Contractor: A & M Property Management

Contractor's Representative:

Observation Date: 1/7/2020

Report Date: 12/03/2019

Report No.: 4 (FY-20)

AC - Indicates major items recommended to be discussed by Advisory Committee **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					MONTHLY ADDRESSED	Yellow - Items recommended to be addressed as soon as possible or renovation recommendations generally based upon vehicular or storm damage.
All locations		X	X	15	All turf areas need to be treated for broadleaf weeds.	
		X	X	17	Median numbers on the ends of medians need to be refreshed.	
		X	X	17	Recommended all Sabal palms be pruned at this time and have any lower and/or loose frond boots removed from the trunks.	
Median #1		X			North end light pole has been removed due to traffic accident.	
			X	32	There exist considerable areas within the turf invested with weeds and/or dead spots.	
			X	44	On the north end about 60 L.F. of Juniper has been damaged. It appears to have been run over. Prune out damaged and dead foliage. (Photo)	M&A 11/12/18: Review Juniper bed for replacements.
			X	56	Two Juniper plants have been damaged and need to be replaced with 3 gal. size.	
Median #2		X			North end light pole #3 on during day.	
		X	X	17	At address 2184: South end of Plumbago shrub bed needs to have dead plants removed and new plants installed. (9) 3 gal. size Plumbago.	
		X	X	17	At address 2160: North end of Plumbago shrub bed needs to have dead plants removed and new plants installed. (5) 3 gal. size Plumbago.	
		X	X	20	At address 2172: Plumbago shrub beds contain defoliated plants. Review for insects and prune out dead wood.	M&A: 1/7/19 Shrubs are dry and irrigation coverage needs to be reviewed, as well as possible additional heads added.
		X	X	26	At address 2052: Juniper runover. 4-5 plants damaged. Review to remove damaged or dead and provide count for replacements. 3 gal. size.	
		X	X	26	At address 2184 & 2160: Plumbago shrubs are in poor condition. Review for insects and/or water stress.	M&A: 8/13/18 Remove dead and replace with same in 3 gal. size containers. M&A: 1/7/19 Shrubs are dry and irrigation coverage needs to be reviewed, as well as possible additional heads added.
	X	X		26	At address 2224: (1) Tabebuia 'Ipe' has lifted and needs to be reset. (1) Tabebuia 'Ipe' has been removed. Recommend replacement.	The Tabebuia if reset could use additional soil backfill around base to cover exposed root system. M&A: 09/11/18 Additional review of lifted Tabebuia tree has revealed upper canopy damage from hurricane Irma that will require the tree to be removed and replaced. M&A: 1/7/19: Install Tabebuia 'Ipe', 11'-13' ht., 3.5" cal., 5'-6' spr., 36" B&B or 65 Gal.
	X	X		26	At address 2184: (1) Tabebuia 'Ipe' has lifted and needs to be reset.	
	X	X		26	At address 2160: (2) Tabebuia 'Ipe' have been removed.	Alternate tree type could be considered (e.g, Crape myrtle) M&A: 1/7/19: Install Tabebuia 'Ipe', 11'-13' ht., 3.5" cal., 5'-6' spr., 36" B&B or 65 Gal.
	X	X		26	At address 2112: (1) Golden Tabebuia damaged. Remove and replace.	M&A: 1/7/19: Install Tabebuia 'Golden', 11'-13' ht., 3.5" cal.,



McGee & Associates

Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Sunshine Blvd.

Report Date: 1/7/20

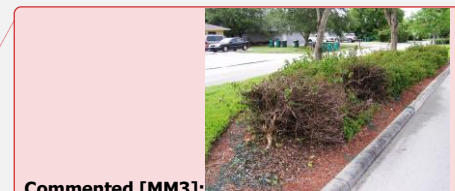
Report No.: 4 (FY20)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
						5'-6' spr., 36" B&B or 65 Gal.
	X	X		26	At address 2112: (2) Tabebuia 'Ipe' damaged. Remove and replace.	Alternate tree type could be considered (e.g, Crape myrtle) M&A: 1/7/19: Install Tabebuia 'Ipe', 11'-13' ht., 3.5" cal., 5'-6' spr., 36" B&B or 65 Gal.
	X	X		26	At address 2101: (1) Golden Tabebuia damaged. Remove and replace.	M&A: 1/7/19: Install Tabebuia 'Golden', 11'-13' ht., 3.5" cal., 5'-6' spr., 36" B&B or 65 Gal.
			X	33	Address 2112: Replant (13) dwarf Bougainvillea 'Helen Johnson' 3 gal. size at location where water service repair occurred.	
			X	40	At address 2236: Dead turf area on east side of median apparently due to irrigation coverage issue. (5' x 40')	
			X	41	At address 2190- 2196: Dead turf area on east side of median apparently due to irrigation coverage issue.	
			X	43	At address 2224 & 2236: Dead turf area on east side of median apparently due to irrigation coverage issue.	M&A: 7/13/16 Proposals being solicited. M&A: 8/8/16 Replacements approved and installation being scheduled
			X	47	At addresses 2184 & 2160: Two Plumbago beds are water stressed. Recommend adding two sprinkler heads on risers and with rebar supports in the center of the beds. Sprinklers should have 4' by 15' center strip nozzles.	
			X	50	At address 20th Ct. SW: 3' x 30' turf area is in decline with dead areas. Review for replacement.	M&A: 9/17/15 It is indicated this turf area decline is due to grubs. Recommend to treat entire median for grubs and review all other turf areas.
			X	65	At address 2274: Replace auto accident damaged Juniper on south end of median.	M&A: Appears 3-3 gal. plants will be needed. M&A: 7/8/14 another accident has occurred in same location. Approx. 50 L.F. of Juniper damaged. Review and remove damaged and provide count for replacements. M&A: 11-11-15 Review area and provide count for replacement Juniper 3 gal. size.(photo)
Median #3 - Pump Station Location- 5 hp, 6" well, VFD		X			South end light pole #4 on during day.	
		X	X	26	At address 1991: Reset Tabebuia 'Ipe'.	
		X	X	26	At address 1960: Oak tree needs structural and corrective pruning.	
	X	X	X	26	At address 1944: (2) Tabebuia 'Ipe' damaged. Remove and replace.	Alternate tree type could be considered (e.g, Crape myrtle) M&A: 1/7/19: Install Tabebuia 'Ipe', 11'-13' ht., 3.5" cal., 5'-6' spr., 36" B&B or 65 Gal.
			X	26	At address 1944: (1) Silk Floss tree has upper trunk damage. Structural and corrective pruning needed to regrow main leader.	
	X	X	X	26	At address 1945: (2) Tabebuia 'Ipe' damaged. Remove and replace.	Alternate tree type could be considered (e.g, Crape myrtle) M&A: 1/7/19: Install Tabebuia 'Ipe', 11'-13' ht., 3.5" cal., 5'-6' spr., 36" B&B or 65 Gal.
		X	X	26	At address 1936: Oak tree needs structural and corrective pruning.	
		X	X	26	At address 1900: Oak tree needs structural and corrective pruning.	
			X	27	Address 1991: Tabebuia tree staking has come apart and need to be removed or reset.	
			X	28	Address 1960 to 1944: Bougainvillea shrubs have been runover. Prune out damaged wood and provide count for replacements. (photo)	
			X	51	At address 1900: 10' x 15' turf area is in decline with dead areas. Review for replacement.	

Commented [MAM2]:



Commented [MM3]:



McGee & Associates

Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Sunshine Blvd.

Report Date: 1/7/20

Report No.: 4 (FY20)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
			X	60	Light pole accident on south end of median. Multiple Juniper have been run over and are damaged and broken. Prune out damaged foliage and branches and review in 30 days for replacements.	M&A: 12-12-14 Damaged plants have been removed. M&A: 11-11-15 Review Juniper for replacement count and submit estimate.
Median #4						
Median #5		X	X	26	Oak trees need structural and corrective pruning.	M&A: 5/7/28 Prune back branches a minimum of 4-feet away from fixture.
			X	27	Prune Oak tree branches away from light poles.	M&A 5-13-19: Light is being blocked by the Oak tree foliage.
Median #6			X	33	Address 1750: Remove (3) declined dwarf Bougainvillea and replant (3) dwarf Bougainvillea 'Helen Johnson' 3 gal. size. Review existing soil and plant roots for any issues.	
			X	38	At address 1771: Cut surface circling root. Cut to remove or cut minimum 1-inch wide section out of the center of the root.	
			X	43	Previous light pole accident has left some dead and damaged Juniper plants. Provide count and replacement proposal. (5-6) 3 gal. size replacements.	
18th Place SW Median	X	X	X	38	Auto accident damaged 10-15 plants (photo) Recommend removing all the Bougainvillea and replant median with Perennial Peanut "Ecoturf" variety in 1 gal. 12" o.c., 36" offset from back of curbing. If all is not approved then recommend doing area of damaged Bougainvillea. In either case hand watering will be required so it should be included in the proposal.	M&A: 12/01/19 Bougainvillea not pruned and median contains weeds.
18th Ave. S.W. Median		X	X	15	Weeds in perennial peanut.	The entire median weeds and Perennial peanut plants have been apparently killed with herbicide. M&A: 4/8/19 Median will be replanted in rainy season due to no irrigation. M&A: 9/9/19 Median replanted with perennial peanut, but plants look water stressed and bed contains weeds. M&A: 12/01/19 Median contains weeds.
QUARTERLY ADDRESSED						
Accent/Street Lighting						
Lighting Electric Meters & Irrigation Controller Electric Source Locations					Lighting Electric Meter 2271 Sunshine Blvd., 1 SUN, Alley off 23 rd Ave. SW Lighting Electric Meter & Irrigation Controller Electric, 1995 Sunshine Blvd., 2 SUN, Alley off 20 th PL. SW Lighting Electric Meter 4642 18 th Pl. SW, 3 SUN, North R/W	
Fertilizations:			X		Refer to schedule.	
Irrigation:					Previous month water use total per WeatherTrak controller estimate data was 206,441 gallons.	

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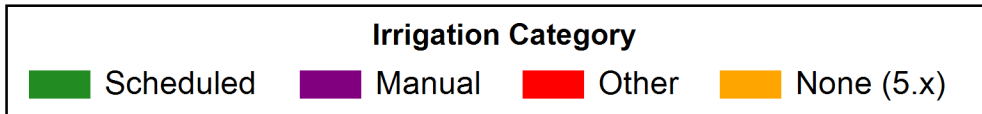
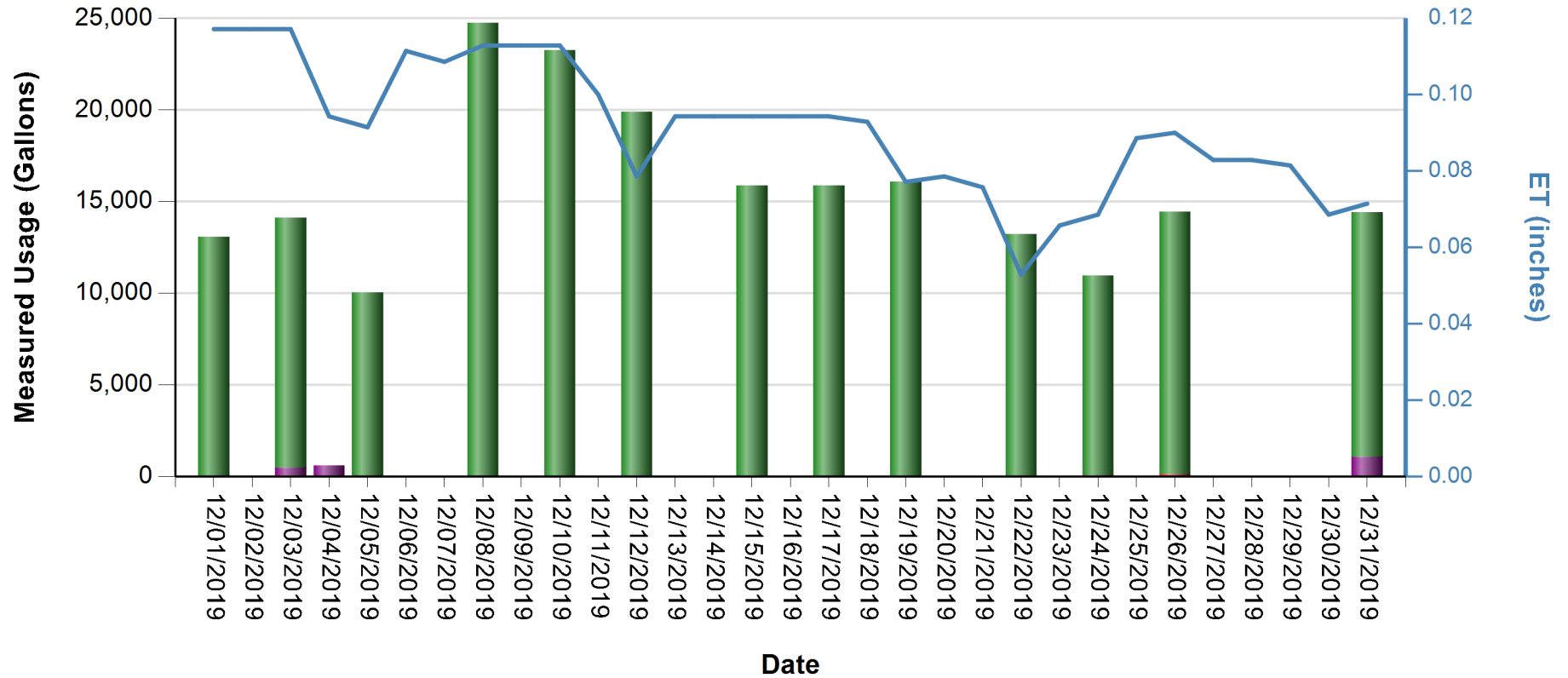


Single Controller Measured Usage History Report



Measured Usage per Day: 2002 Sunshine

12/01/2019 to 01/02/2020



McGee & Associates

Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Landscape Architect Report: January 2020

Location: Coronado Parkway & Hunter Blvd.

Project Manager: Dan Schumacher, Collier County Public Services Department, Public Transportation & Neighborhood Enhancements Division

Consultant's Representative: Michael A. McGee, rla, isa

Consultant: McGee & Associates

Landscape Contractor: A & M Property Management

Contractor's Representative:

Observation Date: 1/7/2020

Report Date: 1/7/2020

Report No.: 4 (FY-20)

AC - Indicates major items recommended to be discussed by Advisory Committee **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					MONTHLY ADDRESSED	Yellow - Items recommended to be addressed as soon as possible or renovation recommendations generally based upon vehicular or storm damage.
Coronado Pkwy. - All locations		X	X		All areas need mulch applied.	
		X	X	2	All Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
	X			6	Renovation preparations are underway.	M&A 10/14/19: Renovation plantings not complete and on hold due to contractor closing operations.
	X	X		19	Recommend that all paver areas be pressure washed following the irrigation conduit installation.	M&A: "Wet & Forget" test area recommended
		X		19	Median numbers need to be refreshed.	
		X	X	26	All canopy type trees need minor broken branches removed.	
Median #1- Pavers		X		25	Pressure cleaning recommended	
Median #2- Pavers		X		25	Pressure cleaning recommended	
Median #3			X	2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
		X		17	North end Foxtail palm is in serious decline with no new center frond. Removal is recommended, and any replanting of a new Foxtail should include soil amendments to the backfill soil. If one more fertilization attempt is to be performed it is recommended to apply 3 lbs. per palm of Manganese Sulfate within a curb to curb and 10-foot north and south area away from the trunk.	M&A 11/12/18: Palm is dead and needs to be removed. Replacement is recommended with review of soil after removal for amendments. M&A: 12/01/19 Palm removed replacement recommended.
Median #4			X	2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
Median #5			X	2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
Median #6			X	2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
Median #7			X	2	Juniper plantings need to be reviewed for replacements.	
Median #8		X	X	2	Juniper plantings need to be reviewed for replacements.	
Median #9 - Pavers		X		2	Pressure cleaning recommended	
Median #10			X	2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
		X	X	26	At address 5256: Sabal palm leaning. Reset.	
				26	At address 5273: (2) Jatropha removed.	Consider replacement with alternate plant (e.g. Crape Myrtles) or leave unplanted and increase shrub or ground cover plantings. M&A: 7/9/18 Install (1) 15 gal. multi-stem shrub 4' ht.
	X	X	X	26	At address 5301: (2) Jatropha removed.	Consider replacement with alternate plant (e.g. Crape Myrtles) or leave unplanted and increase shrub or ground cover plantings. M&A: 7/9/18 Install (1) 15 gal. multi-stem shrub 4' ht.

Design * Environmental Management * Planning * Arborist

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LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
	X	X	X	26	At address 5327: (2) Jatropha removed.	Consider replacement with alternate plant (e.g. Crape Myrtles) or leave unplanted and increase shrub or ground cover plantings. M&A: 7/9/18 Install (1) 15 gal. multi-stem shrub 4' ht.
Median #11 Bridge			X	2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
Median #12			X	2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
			X	39	One Alexander palm on the east end of the median has been cut off at ground level. Replacement is recommended.	M&A: 10/7/16 Recommend replacement of Alexander palm, 10 ft. clear trunk ht. min.
Median #13					No issues observed	
Median #14					No issues observed	
Hunter Blvd. - All locations		X			All areas need mulch applied.	
	X			6	Renovation preparations are underway.	
		X		20	Median numbers need to be refreshed.	
		X	X	26	All canopy type trees need minor broken branches removed.	
Median #1		X	X	2	Juniper plantings need to be reviewed for replacements.	
Median #2			X	37	See recommendations for "All Locations" above.	
			X	57	(3) Big Rose plant is dead.	Provide estimate for replacement at 1 gal. size. M&A: 4/15/15 Contractor is trying to locate a nursery supplier. M&A 7/9/18: Install (3) 1 or 3 gal. Crown of thorn 'Big Rose'
Median #3	X	X	X	25	Median received additional flooding during storm and planting bed soil has been removed. All shrub or ground cover plantings need to be removed. Median will need an additional 4 to 6-inch layer of soil added prior to any renovation planting work. Existing Alexander palms and Crape myrtles need additional soil placed around exposed root systems as soon as possible.	M&A: 7/9/18 Renovation Recommendation: Install by topdressing/backfilling entire median with clean native topsoil (85 c.y. +/-). Median soil profile to be 4-inch below top of curbing or pavers and elevate to 4" to 8" above curb along centerline of median.
Median #4			X	28	Fourth Alexander palm from the north end has died. Please review for possible cause. Replacement should include fungicide soil drench.	M&A: Do not remove Alexander palm. New Frond has emerged from the bud. Treat with fungicide and fertilize with 4 lbs. 13-3-13 palm special fertilizer. M&A: 7/9/18 Install (1) Alexander palm 10' clear trunk. (24) 3 gal. Juniper 'Parsonii' at missing locations between palms.
Median #5 Pump station – Median #5, 7.5 hp, 8" well feeds Hunter & Coronado, Irrinet in median controls Piccolos			X	2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
Median #6		X	X	13	At address 2007: Reset Oak.	
		X	X	13	At address 2043: Reset Oak.	
		X		19	Additional median flooding has washed soil onto the east and west roadways along the middle to south end of the median. Removal should occur as soon as possible.	
		X	X	26	At address 2116: Reset Oak.	
		X	X	26	At address 2100: Reset Oak.	

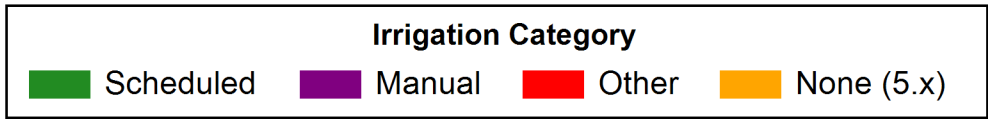
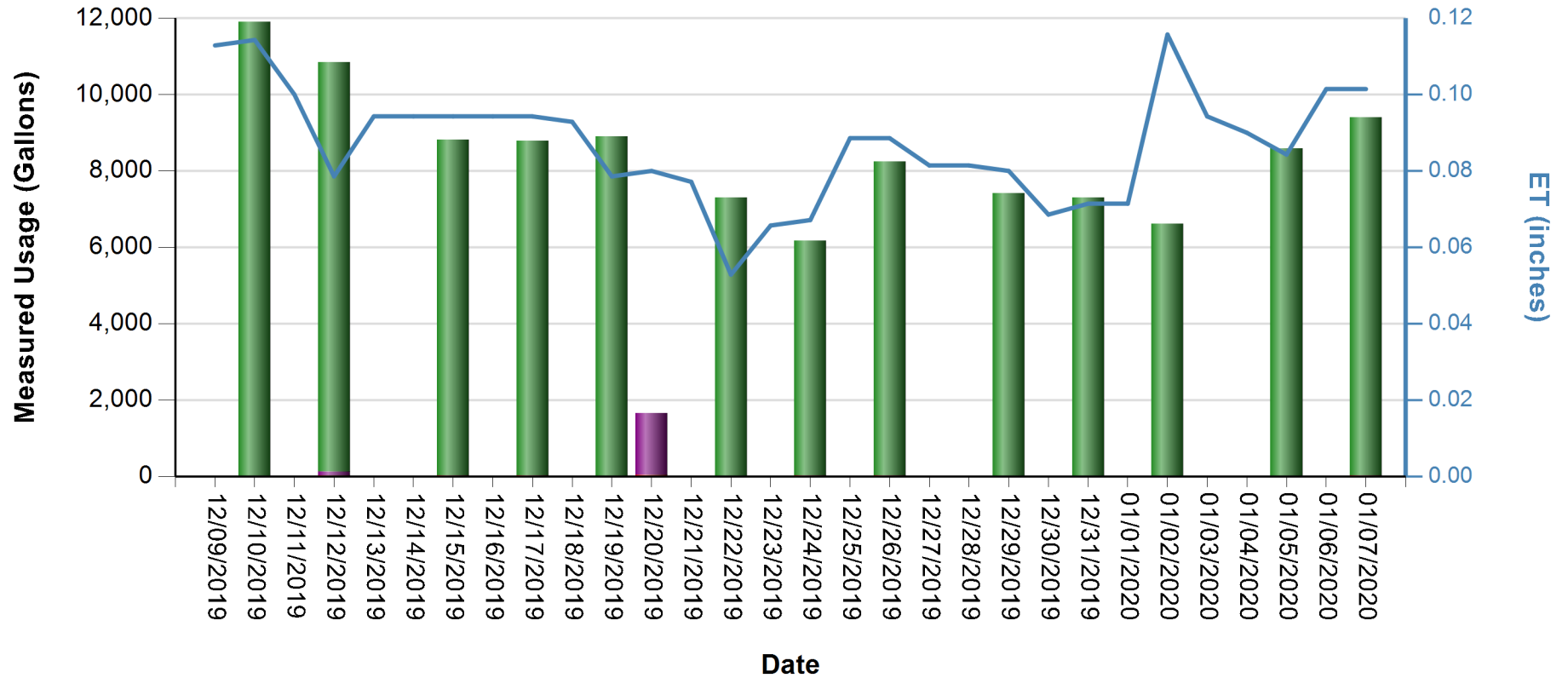
<u>LOCATION/WORK AREA</u>	<u>AC</u>	<u>S</u>	<u>C</u>	<u>R</u>	<u>MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS</u>	<u>RESPONSE or COMMENTS</u>
	X	X	X	26	At address 2018: (1) Jatropha removed.	Consider replacement with alternate plant or leave unplanted and increase shrub or ground cover plantings. M&A: 7/9/18 Install (1) 15 gal. multi-stem shrub 4" ht.
Median #7					No issues observed.	
Median #8		X		2	At address 5375: Tree removed and planting hole open and coned off.	
		X		2	At address 5395: Replacement Oak needs to be reviewed for replacement.	
		X		2	Perennial peanut plantings under weed control process.	Perennial Peanut plantings are not fully recovering.
		X	X	26	At address 5281: (1) Oak tree reset.	
	X	X	X	26	(1) Jatropha removed.	Consider replacement with alternate plant or leave unplanted and increase shrub or ground cover plantings. M&A: 7/9/18 Install (1) 15 gal. multi-stem shrub 4' ht.
		X	X	26	At address 5325: Oak tree reset.	
				26	(1) Jatropha removed.	Consider replacement with alternate plant or leave unplanted and increase shrub or ground cover plantings. M&A: 7/9/18 Install (1) 15 gal. multi-stem shrub 4' ht.
	X	X	X	26	(1) Jatropha removed.	Consider replacement with alternate plant or leave unplanted and increase shrub or ground cover plantings. M&A: 7/9/18 Install (1) 15 gal. multi-stem shrub 4' ht.
Median #9	X	X	X	43	17 – Big Rose crown of thorn have been partially up rooted due to recent storm winds and/or fallen trees. It is recommended to dig, replant and hand water in plants. Cut back plants as required in order for plants to stand upright. 1 – Big Rose plant has been broken at base and needs to be replaced.	M&A: Additional storm damage to the crown of thorn has occurred. Recommend removal of all plants and replant median with dwarf Bougainvillea 'Helen Johnson' in 3 gal. size containers. Provide count and proposal recommended. M&A 7/9/18: Remove Big Rose install (68) Yellow African Iris 4' o.c., 4.5' off back of curbing in 3 rows.
Median #10					No issues observed.	
Median #11		X	X	26	35 -40 Society Garlic plants are missing. Replacement recommended.	M&A 7/9/18: Install 40 Society Garlic plants, 1 gal., 24" o.c. in missing locations.
Median #12					No issues observed.	
<u>QUARTERLY ADDRESSED</u>						
Fertilization:			X		Refer to schedule.	
General Irrigation:			X		Previous month water use total per WeatherTrak controller estimate data was 111,918 gallons.	

Single Controller Measured Usage History Report



Measured Usage per Day: 2003 Hunter Coronado

12/09/2019 to 01/09/2020





Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.
Location: Golden Gate Pkwy.
Project Manager: Dan Schumacher, Collier County Public Services Department, Public Transportation & Neighborhood Enhancements Division
Consultant: McGee & Associates
Landscape Contractor: Superb Landscaping
Observation Date: 1/7/20

Landscape Architect Report: January 2020
Consultant's Representative: Michael A. McGee, rla, isa
Contractor's Representative: Robert Kindelan
Report Date: 1/7/20

Report No.: 4 (FY20)

AC - Indicates major items recommended to be discussed by Advisory Committee, **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor
 This report is prepared strictly to provide recommendations only and in no manner is to imply any authorization to the Contractor or its Sub-Contractors to perform services for Collier County.

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					MONTHLY ADDRESSED Post Hurricane Irma Damage	Yellow - Items recommended to be addressed as soon as possible or renovation recommendations generally based upon vehicular or storm damage.
Median #15 – 21			X	33	Turf has dead areas due to being previously very water stress.	M&A: 8/13/18 Dead areas have become overgrown with weeds.
Median #12 – 29 (3-19)			X	65	Medians that contain turf areas.	M&A: 02-13-14 The broadleaf weed treatment program needs to continue for all turf areas. M&A: 12-12-14 It is estimated that all median with turf have broadleaf weeds within over 75% to 90% of the turf areas. M&A: 06/11/15 Turf replacement planning is in process. Multiple medians have been reviewed for replacement by County staff and the Contractor. An on-site meeting was held and the following issues were discussed. The broadleaf weed coverage within the turf areas has improved, but many median turf areas still need review for replacement of the turf. It is also recommended that all planting beds be reviewed with regards to the turf edges being too close to the plants causing a conflict to occur between the plants, mowers and edger's. If the turf is too close then it is recommended to remove one or two strips of turf with a sod cutter so to expand the plant bed and create a open mulch area between the plants and turf. In some locations this type of turf removal may result in a turf area that is too small to mow between the back of curb and the plants. It is recommended that these small turf areas be removed entirely and the areas be mulched. There will also be areas between planting beds that will become smaller turf areas and it may be better to remove these small turf areas and expand the plantings from the existing beds to cover these areas where the turf is removed thus tying the planting beds together. M&A: 8/13/15 Plan preparation is underway for turf renovations in all medians. M&A: 10/15/15 Sod Renovation plan completed and submitted. Contractor has been contacted to prepare proposal/estimate. M&A: 12-10-15 Staff response was waiting on proposal from contractor

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McGee & Associates

Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Golden Gate Pkwy.

Report Date: 1/7/20

Report No.:

4 (FY20)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
						and 2016 rainy season.
Median #32 (1)			X	17	Auto has run into the crown of thorn bed. Remove and /or prune out damaged plants. Review for replacements.	M&A: 10/14/19 Crown of thorn has suttu mold, and all should be removed and area planted with perennial peanut. 1 gal. size 18" o.c., 4' off pavement, curbing or other plants.
			X	64	West end: Indian hawthorn shrubs have multiple dead and/or missing plants. Provide count of dead, missing or declining plants. If over 50 percent of plants are found to be dead missing or declining then it is recommended the area be renovated with Blueberry Flax lily 1 gal. size 36" o.c., 48" over back of curbing and other plants.	M&A: 7/9/14 There are over 50 plants that are dead, missing or in decline that need to be removed. Provide proposal to remove existing plants and install Flax lily 1 gal. size
Median #31 (2)			X	65	Review Juniper on east end: Provide count of declined, missing or damaged Juniper due to pedestrian traffic. Approx. (4) plants have brown foliage and (4) plants are damaged.	
Median #30 (2A) (Pavers only)						
Median #29 (3)			X	56	Transplanted Carissa plants are in transplant shock and water stress. Increase irrigation if it is not already.	2/11/15 M&A: Some plants have turned brown due to transplant shock. Review for removal if stems are not alive. M&A: 4/15/15 Dead transplanted Carissa have been removed. Please update status of any replacements. M&A:8/13/15 Replacements being addressed in turf renovation plans.
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #28 (4)		X	X	14	East end bed: Auto accident has damaged Sabal palm and African Iris plants. Sabal must be removed and replaced. African Iris should be cut back and reviewed for replacements (6) +/- in 3 gal. size.	
		X	X	21	West end bed: Oak tree sprouts need to be removed from within Liriope plants.	
		X	X	26	At address 4149: Ligustrum tree damaged. Remove and replace.	
			X	66	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #27 (5)			X	64	East end: 3 (5) (10) – Flax lily are dead or missing. Replace with 1 gal. size.	
			X	66	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #26 (6)		X	X	26	West end bed: (8 – 10) Thryallis shrubs missing.	M&A: 12/11/17 recommend replanting per pervious renovation plan or with yellow African iris. 1 gal. size.
		X	X	26	Existing large Pine tree was damaged and removed. Recommend replacement with palm species due to median width.	
			X	50	West end bed: Liriope contains large amount of Torpedo grass weed.	M&A: 11/11/15 The torpedo grass is taking over the Liriope plants.
			X	56	West end bed: (5) Dead and/or missing Flax lily plants. Install 1gal. size.	
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #25 (7) Pump Station- Median #25 (7) east end, 15 hp, 8" well, VFD, Motorola Scorpio controller S3405-operates G.G. Pkwy. Medians 22-32 (1-10)			X	56	Transplanted Carissa plants west of pump station are in transplant shock and water stress. Increase irrigation if it is not already.	2/11/15 M&A: Some plants have turned brown due to transplant shock. Review for removal if stems are not alive. M&A: 4/15/15 Dead transplanted Carissa have been removed. Please update status of any replacements. M&A:8/13/15 Replacements being addressed in turf renovation plans.
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #24 (8)			X	44	Bahia turf placed in median after Traffic signal installation should be removed and area mulched. Median never contained turf and if it remains irrigation should be reviewed to	M&A. 03/09/16 Remove Bahia grass and extend Flax lily plants in 1 gal. size.

McGee & Associates

Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Golden Gate Pkwy.

Report Date: 1/7/20

Report No.: 4 (FY20)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					see if there is proper coverage.	
			X	73	Provide count to fill in missing Liriope plants in middle area of median.	Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval, M&A 4/13/16: An updated proposal should be submitted.
Median #23 (9)		X	X	23	East End Bed: Sabal palm foliage is beginning to cover face of left turn traffic signal.	
		X	X	26	At address 4463: (1) Sabal palm and (1) Bottle brush trees were damaged. Remove and replace Sabal.	
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
			X	81	Damaged area has grown over with native grasses and weeds. Apparent auto damage to turf on west median end. Provide proposal for repair and replacement. (photo)	Plant material to be replaced; sod will not be replaced. Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval, M&A:8/13/15 Replacements being addressed in turf renovation plans.
Median #22 (10)		X	X	14	West end bed: Dwarf Bougainvillea shrubs contain Torpedo grass weed.	
		X	X	26	On west end (1) Oak damaged. Remove and replace.	
			X	49	2nd bed from east end: Yellow Iris have torpedo grass within them.	
			X	50	East end bed: Juniper Parsoni bed is missing (2) plants. Replace with 3 gal. size.	
			X	53	The invasive exotic Wedelia is taking hold again in the east end turf area. Treat to remove.	M&A: 5/11/15: Continue treatments. M&A:8/13/15 Replacements being addressed in turf renovation plans.
		X	X	56	Median in need of renovation due to amount of missing plants in multiple beds.	M&A:8/13/15 Replacements being addressed in turf renovation plans. See Median #12-29 comments above.
			X	59	West end bed: (10) Juniper parsoni are missing. Replace with 3 gal. size.	M&A:8/13/15 Replacements being addressed in turf renovation plans. See Median #12-29 comments above.
			X	64	East end bed: 3 – White African Iris are dead or missing. Replace with 1 gal. size.	M&A: 8-14-14 (3) more additional Iris have declined or have died. M&A: 11-13-14 There are only (3) remaining Iris and (2) of those are in decline. It is recommended to remove the Iris and install a planting of Variegated Arbuticola 'Trinette' in a three row planting. (45) 3 gal. size plants would be required. These Iris were originally planted by the Contractor as a bed expansion. M&A:8/13/15 Replacements being addressed in turf renovation plans.
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
			X	39	West end turf area: Area has grown over with native grasses and weeds. Previously water stressed and/or chinch bug damage. Review irrigation coverage and treat as required. Remove dead turf and resod. (photo)	Hannula: 11-12-13 On monthly schedule. Hannula's 1/13/14: 1 st Treatment Completed on 12/2/13; 2 nd Treatment Scheduled for 01/20/14. 12/27/14 Irrigation coverage reviewed; irrigation coverage is fine. Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval
Median #21 (11)			X	31	African Iris beds need to have dead foliage removed.	
			X	32	The east end Flax lily plants are declining and dying.	M&A:8/7/17 Bare areas of missing plants exist in the Flax lily bed. M&A: 8/13/18 Additional Flax lily plants are gone. Recommend replanting open bed areas with Perennial Peanut, 1 gal., 18" o.c.
			X	57	On the west end of the median there is a pile of construction debris/dirt & rocks at the back side of the pavers that has been overgrown with weeds. Please review and provide comments as to how this happened and who may have caused this.	M&A:8/13/15 Being addressed in turf renovation plans.



McGee & Associates

Landscape Architecture

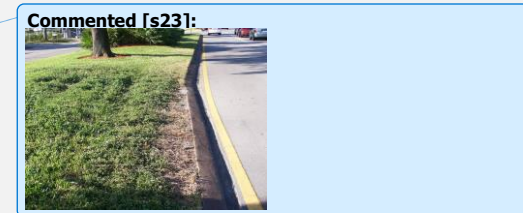
GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Golden Gate Pkwy.

Report Date: 1/7/20

Report No.: 4 (FY20)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
			X	83	East end bed: Flax lily has Torpedo grass in them. Continue to remove and treat Torpedo grass in Iris plants.	Hannula: 11-12-13 On weekly schedule. Hannula 1/13/14: Fucilade to be applied during next herbicide application on Jan 20 th 2014, M&A: 4-12-14 Continue to review and hand remove Torpedo grass. M&A; 5-14-14 Still minor amounts of Torpedo grass exist. Continue to review, treat, and hand remove. M&A: 4/9/18 Due to poor performance of Flax lily plants it is recommended that African Iris be used.
Median # 20 (12) Pump Station- Median #20 (12) west end, 15 hp, 8" well, VFD, Motorola Irrinet controller #34- operates G.G. Pkwy. Medians 21-15 east side of canal, (11-18) & Hunter Blvd. & Coronado Pkwy.			X	31	Fakahatchee grass and African Iris beds need to have dead foliage removed. Continue for insect issues.	
			X	50	Auto accident on west end bed south side. 3 or 4 Big Rose plants damaged.	M&A: 9/17/15 Remove damaged plants. M&A: 10/15/15 Replacements needed. M7A: 03/09/16 There are now 22 dead, missing and/or declining plants. Unsure of the cause, because it could be due to previous cutback, vehicular or work within the area.
			X	50	Three (3) Fakahatchee grass beds are or have been damaged by insects and the foliage is typically all brown. Recommend heavy cutback and then retreat for insects. Any completely dead plants should be replaced with 3 gal. size plants.	
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #19 (13)		X	X	40	On the west end south side there are two variegated Pittosporum shrubs that were damaged during the traffic signal installation. Removal & replacement is recommended.	
	X	X	X	40	Previous water stress issues have created dead turf areas.	
			X	66	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #18 (14)		X	X	4	Red fountain grass needs pruning to remove dead foliage.	
		X	X	6	Median numbers need to painted on west end of median where new signal was installed.	
		X	X	26	(1) Oak tree damaged. Remove and replace.	
	X	X	X	40	Previous water stress issues have created dead turf areas.	
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
			X	69	Turf areas look very bad. Unless an auto accident is to blame the Contractor needs to address this bad turf area that was under its maintenance. (photo)	Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval. M&A:8/13/15 Replacements being addressed in turf renovation plans.
Median #17 (15)		X	X	2	Ilex tree in middle planting bed is dead and should be removed.	
		X	X	6	Median numbers need to painted on east end of median where new signal was installed.	
	X	X	X	40	Previous water stress issues have created dead turf areas.	
			X	44	At address 4930: Large turf area dead due to water stress from no irrigation coverage.	M&A: 4/13/16 The area of turf lost due to lack of water has increased throughout the median.
			X	50	One (1) Fakahatchee grass bed has been damaged by insects and the foliage is typically all brown. Recommend heavy cutback and then retreat for insects. Any completely dead	M&A: 4/13/16 Plants are water stressed.



McGee & Associates

Landscape Architecture

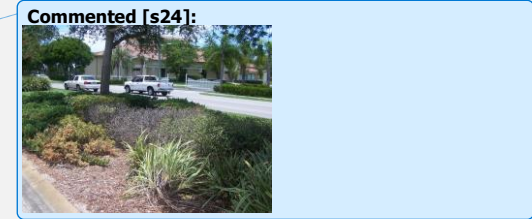
GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Golden Gate Pkwy.

Report Date: 1/7/20

Report No.: 4 (FY20)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					plants should be replaced with 3 gal. size plants.	
			X	50	Turf area on south side of median at Sabal palm has had the turf killed by some chemical. Review and submit proposal for replacement.	M&A:8/13/15 Replacements being addressed in turf renovation plans.
			X	56	2nd bed from west end: Remove remaining Pittosporum and Indian hawthorn shrubs and then expand adjacent Flax lily plants. (60) 1 gal. size.	M&A:9/17/15 Replacements being addressed in turf renovation plans. M&A: 3/13/17 Dead plants removed.
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #16 (16)		X	X	12	Prune dead and/or remove Fakahatchee grasses. Replace as needed.	
	X	X	X	40	Previous water stress issues have created dead turf areas.	
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #15 (17 – East of canal)		X	X	12	Prune dead and/or remove Fakahatchee grasses. Replace as needed.	
	X	X	X	40	Previous water stress issues have created dead turf areas.	
		X	X	53	Existing Liriope and Big Rose bed sustained damage. Big Rose plants and Ligustrum tree has been cut back or removed. It is recommended to remove remaining Big Rose, Liriope and Ligustrum tree stump and then expand Flax lily plants to the west. It is estimated about (75) 1 gal. plants will be needed. Review and provide plant count based upon 36-inch on center spacing and 36 inch offset from back of curbing. bed preparation should be included to lower existing grade below curbing so that mulch can be retained.	Recommend providing proposal to proper County staff. See Median #12-29 comments above. M&A:8/13/15 Replacements being addressed in turf renovation plans. M&A: 4/9/18 Due to poor performance of Flax lily plants it is recommended that African Iris be used.
			X	67	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
			X	73	4 th bed from east end: Expand Flax lily bed into area of removed plants. Remove all Indian hawthorn plants. (photo)	Hannula 7/16/13: County postponed replacements until Oct. 2013., M&A: 9-12-13 Provide proposal to staff for replacements. M&A: 12-12-13 (1) Indian hawthorn still needs to be removed at base of Oak tree. Hannula 1/13/14: Indian hawthorn removed.
Median #15 (17) (Old #18 –West of canal)			X	56	Review Flax lily plants and provide count of dead or missing plants. 1 gal. size.	M&A: 4/15/15 Flax lily: Treat for rust disease with systemic type chemical. Treat for root rot and snails. Remove dead foliage within and around base of plants. In the future reduce mulch in contact and inside of Lily plants. Existing mulch depth and caking is not permitting water to penetrate the soil. Interior sides of plants are dry below mulch. M&A: 4/9/18 Due to poor performance of Flax lily plants it is recommended that African Iris be used.
Median #14 (#19 – Paver only)						
Median #13 (18) (Old #20)		X	X	12	At address 5263: Auto accident into Firebush bed. Remove damaged and dead and replace as needed with (2 +/-) 3 gal. size.	
	X	X		26	On east end: (1) Mahogany tree had a large lower branch break off and the main trunk has been damaged as a result. Based upon the main trunk damage it is recommended the tree be considered for removal because of the long-term potential of the main trunk rotting from standing water and debris. The tree will try to compartmentalize around the damaged area, but we feel it will have weakened the main trunk to a point of possible major failure in the future.	M&A: Tree has been removed. Recommend replanting with Crape myrtle eastward and northward of original Mahogany tree locations.
		X	X	26	At address 5251: (1) Oak tree damaged. Remove and replace.	
			X	64	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #12 (19) (Old #21, Sign) Pump Station- Median #12 (19) (Old #21) east end bed, 7.5 hp, 6" well,		X	X	16	Auto accident in east end bed Juniper at pump station. Remove damaged and prune out dead. (8+/-) plants involved (photo)	



McGee & Associates

Landscape Architecture

GOLDEN GATE BEAUTIFICATION, M.S.T.U.

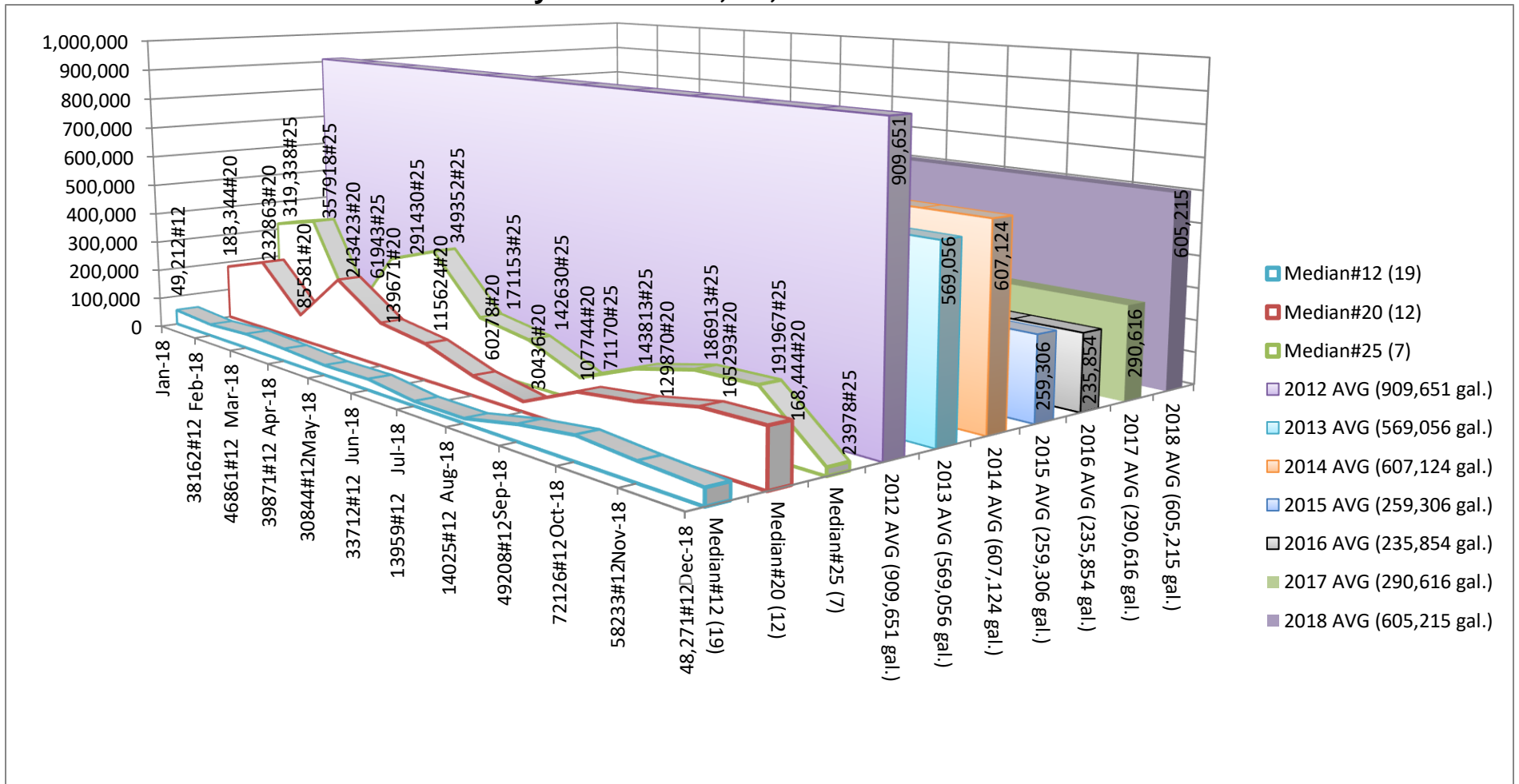
Location: Golden Gate Pkwy.

Report Date: 1/7/20

Report No.: 4 (FY20)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
VFD, Motorola Scorpio controller S3401-operates G.G. Pkwy. Medians 11-15 west side of canal (19-22).						
			X	64	Turf areas in need of replacement. See Quarterly Addressed section for comments.	M&A: 06/11/15 See Median #12-29 comments above.
Median #11 (20) (Old #22)						
Irrigation General:					No major issues observed. Previous month combined water use: 240,693 gallons	
					QUARTERLY ADDRESSED	
All medians with turf:			X	64	Turf areas in need of replacement.	Provide proposal to show required turf replacement square footage for each median. M&A: 06/11/15 See Median #12-29 comments above. M&A: 8/13/15 Plan preparation is underway for turf renovations in all medians.
Median #23 (9)			X	69	3 rd bed from east end: Add 12- 3 gal. Fakahatchee grass in middle of bed.	Hannula 7/16/13: County postponed replacements until Oct. 2013., M&A: 9-12-13 Provide proposal to staff for replacements. Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval. See Median #12-29 comments above.
Median #17 (15)			X	68	2 nd bed from west end: Remove declining Variegated Pittosporum and Indian hawthorn shrubs and replant area with Blueberry Flax Lily. 60 – 1 gal. plants will be needed to expand westward from existing Flax lily bed.	Hannula 7/16/13: County postponed replacements until Oct. 2013., Removal on schedule to completed by 9/15/13., M&A: 11-13-14 remove all Pittosporum shrubs and then replant with Flax lily. Provide proposal. Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval, M&A: 4-12-14 Remove additional dead and dying variegated Pittosporum shrubs. See Median #12-29 comments above. M&A: 3/13/17 Dead plants removed. M&A: 2/12/18 Alternate plant choice instead of Lily could be yellow African Iris. M&A: 4/9/18 Due to poor performance of Flax lily plants it is recommended that African Iris be used.

GG MSTU Golden Gate Parkway Median #12, 20, & 25 Well Annual Water Use for 2019



Water Use Goal: (5.73 ac. of Plants & Turf)

Recommended: Supplemental watering rate of .75 to 1 inch per week. One inch per week equals 155,594 gallons per week or 622,376 gallons per month.

2012 total water use: 10,915,815 gallons or 70.16 inches of supplemental water pumped.

2013 total water use: 6,828,673 gallons or 43.89 inches of supplemental water pumped.

2014 total water use: 7,285,490 gallons or 46.83 inches of supplemental water pumped.

2015 total water use: 3,111,667 gallons or 20.00 inches of supplemental water pumped, data not fully accurate, meter malfunctions #20 & 25.

2016 total water use: 2,830,251 gallons or 18.19 inches of supplemental water pumped, data not fully accurate, meter malfunctions #20 & 25.

2017: New Meter & Pump stations installed in Median #12, #20 & 25. Readings not annually complete. Hurricane Irma delayed readings 09/17 – 11/17

2017 total water use: 12,287,390 gallons or 78.97 inches of supplemental water pumped.

2018 total water use: 7,262,588 gallons or 46.67 inches of supplemental water pumped.

2019 total water use: 4,468,660 gallons

McGee & Associates
Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.
Location: Collier Blvd. Part A & B
Project Manager: Dan Schumacher, Collier County Public Services Department, Public Transportation & Neighborhood Enhancements Division.
Consultant: McGee & Associates
Contractor: Superb Landscaping
Observation Date: 1/7/20

Landscape Architect Report: January 2020

Consultant's Representative: Michael A. McGee, rla, isa
Contractor's Representative: Robert Kindelan
Report Date: 1/7/20

Report No.: 4 (FY20)

AC - Indicates major items recommended to be discussed by Advisory Committee, **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor
 This report is prepared strictly to provide recommendations only and in no manner is to imply any authorization to the Contractor or its Sub-Contractors to perform services for Collier County.

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					<u>MONTHLY ADDRESSED</u>	Yellow - Items recommended to be addressed as soon as possible or renovation recommendations generally based upon vehicular or storm damage.
Median# 66, 67 & 68	X	X		26	It is recommended, post hurricane Irma that a complete renovation review take place to fully access the existing condition of the plants and to provide a plan for renovation to occur.	
			X	33	Magnolia trees need to have the dead branches removed and then the trees need to have an organic soil top dress added around the root zone (2 to 3-inch depth) and additional 12-4-8 fertilizer applied at a rate of 1 pound of fertilizer per inch of trunk caliper.	M&A: Post hurricane Irma remaining Magnolia trees should be reviewed for removal or treatment as listed.
Part "A" - West R/W Sign Area		X		18	Tabebuia tree was blown over in Irma and needs to be removed.	
Median #66 (M.P. #3)		X	X	26	(3) Magnolia trees have been removed by hurricane. Remove and replace.	M&A: 12/11/17 Consider replacement with alternative tree such as Crape myrtle.
				26	(1) Sabal palm has been damaged. Remove and replace.	
				26	(1) Oak have major main trunk damage and should be removed and replaced.	
			X	57	Recommend removing Thryallis shrubs and install Sand Cordgrass.	M&A: 12/11/17 Post Irma storm has created worst conditions and renovation is recommended.
Median #67 (M.P. #4)		X		5	Just north of pump station (1) large Oak tree has died and needs to be removed.	Tree has been cut down and stump remains.
				26	(1) Sabal palm damaged. Remove and replace.	M&A: Sabals removed.
				26	(7) Magnolia trees have been damaged. Remove and replace.	M&A: 12/11/17 Consider replacement with alternative tree such as Crape myrtle.
				26	(2) Maple trees have been damaged. Remove and replace.	M&A: 12/11/17 Consider replacement with alternative tree such as Crape myrtle.
		X	X	26	Multiple Juniper plants on the north median end are missing.	
		X	X	59	Recommend removing two remaining beds of Red Fountain grass and replant areas with Silver Saw palmetto's.	
Median #68 (M.P. #5)		X	X	12	Auto accident on north end east side that damaged Plumbago, Bougainvillea and crown of thorn plants. Review and replace as required.	
		X	X	26	Multiple Juniper plants on the south median end are missing.	
		X	X	26	(3) Oak trees damaged. Remove and replace.	
		X	X	27	(3) Magnolia trees damaged. Remove and replace.	M&A: 12/11/17 Consider replacement with alternative tree such as Crape myrtle.
		X	X	32	Dead Sabal needs to be removed. (photo)	M&A: 2/14/17 Tree removed and location staked.
		X	X	34	Remove existing stump of removed tree located on north south side of first Sabal palm group. (photo)	M&A: 2/14/17 Tree removed and location staked.



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

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
		X	X	39	North end east side auto accident in Big Rose Crown of thorn (10-15) damaged	M&A: 10/8/18 Additional auto damage to Crown of thorn and irrigation heads on north end east side.
		X	X	43	Review Big Rose crown of thorn on north end for snail activity and/or auto damage.	
		X	X	62	Prune back the deadwood within the Magnolia at the northernmost end. (photo)	M&A: Review Magnolia tree appears to be declined enough for removal. M&A: 10/7/16 Tree cut down. M&A: 11-5-16 Tree stump needs to be removed and replacement considered. M&A: 2/14/17 Tree removed and location staked. M&A: 12/11/17 Consider replacement with alternative tree such as Crape myrtle.
Median #69 (M.P. #6) – Paved separator						
Part “B” - Median# 70 - 74		X	X	26	It is recommended, post hurricane Irma that a complete renovation review take place to fully access the existing condition of the plants and to provide a plan for renovation to occur.	
		X		11	One Tabebuia ‘Ipe’ removed from middle of median.	
Median #70 (M.P. #7)		X	X	18	Crape myrtle on north end is defoliated and appears dead.	
		X	X	26	At address 11655: (1) Tabebuia trees needs to be reset.	
		X	X	26	Understory plantings need to be reviewed for replacements. On south end Flax lily and Plumbago shrubs could be removed and the areas replanted with yellow African iris.	
		X	X	26	Planting beds could use mulch. Bare ground is present along perimeter of many planting beds.	
			X	63	Juniper bed on south end of median contains dead plants and brown foliage. Remove both and provide count for replacements.	
Median #71 (M.P. #8)		X	X	26	At address 11845: Add (2) Crape myrtles.	
		X	X	26	Understory plantings need to be reviewed for replacements. Flax lily, Plumbago and Thryallis shrubs could be removed and the areas replanted with yellow African iris.	
		X	X	64	Juniper bed on south end of median contains dead plants and brown foliage. Remove both and provide count for replacements.	
		X	X	67	Plant replacements are needed in multiple areas.	Hannula 12/20/13: An estimate cannot be submitted without knowing the recommended species for replacement and a plant count. M&A 1-15-14: Please call our office to schedule an on-site meeting to review median.
Median #72 (M.P. #9)		X	X	26	Understory plantings need to be reviewed for replacements. Flax lily, Plumbago and Thryallis shrubs could be removed and the areas replanted with yellow African iris.	
		X	X	26	At address 12025: (2) Oak trees damaged. Remove and replace. (1) Tabebuia trees needs to be reset. (1) Tabebuia tree damaged. Remove and replace.	M&A: 12/11/17 Consider replacement with alternative tree such as Crape myrtle.
				26	At address 12045: (1) Tabebuia tree damaged. Remove and replace.	M&A: 12/11/17 Consider replacement with alternative tree such as Crape myrtle.
		X	X	73	Review Juniper on north and south end for replacements due to auto damaged.	Hannula 12/20/13: Plant count is needed by next drive through
Median #73 (M.P. #10)		X	X	25	At address 12135: (1) Oak tree damaged. Remove and replace.	
				25	At address 12125: (1) Oak trees damaged. Remove and replace.	
		X	X	67	Review south end Juniper bed for replacements.	
		X	X	67	Turf areas need to be reviewed for dead areas that need to be replaced.	Provide proposal with square footages per median.
Median #74 (M.P. #11)		X	X	19	On north side of pump station auto accident which damaged existing Cypress tree. Trim off	



GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Collier Blvd. A & B

Report Date: 1/7/20

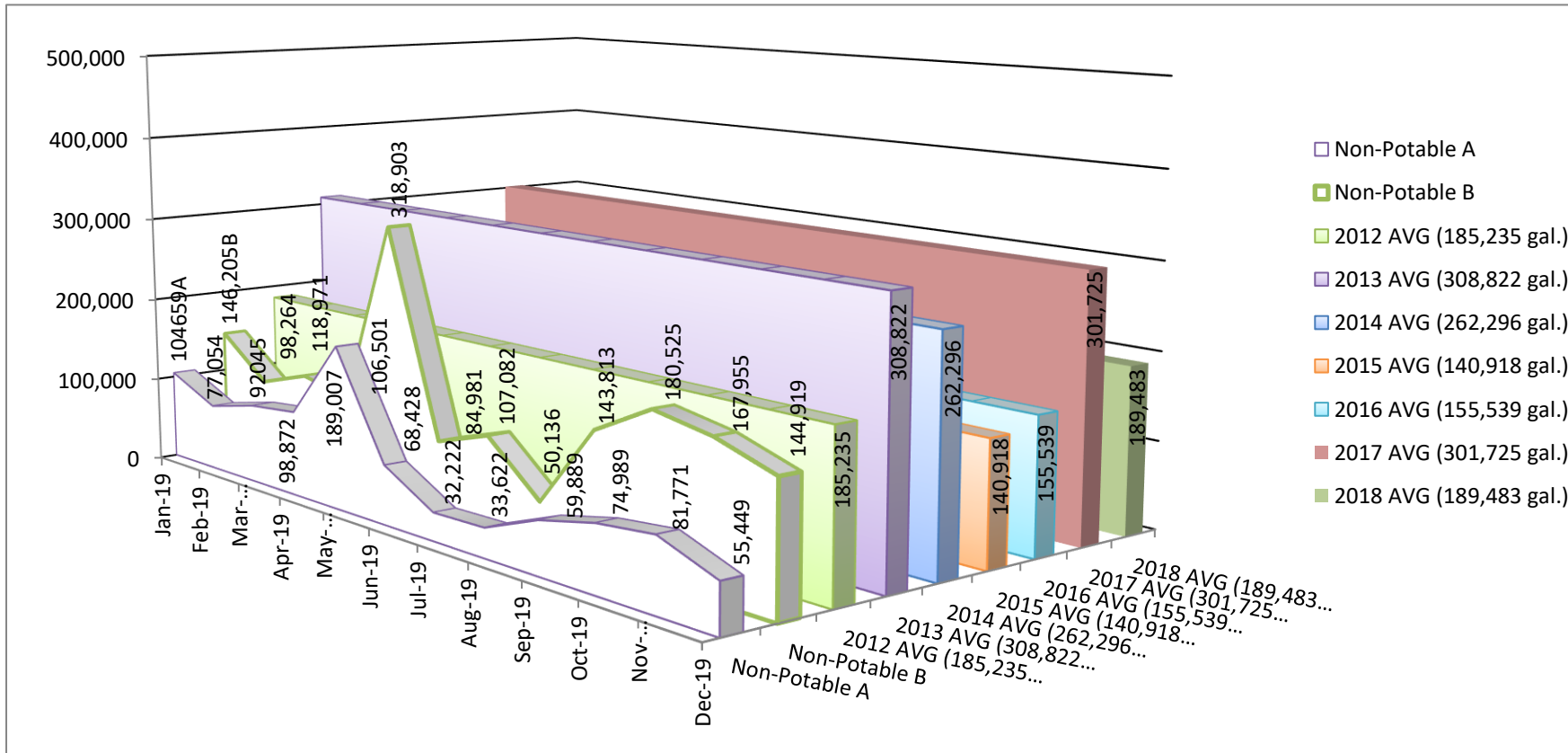
Report No.:

4 (FY20)

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
					loose bark around damaged area and allow bark to callus over(photo)	
		X	X	26	At address 12225: (1) Oak tree damaged. Remove and replace.	
				26	At address 12215: (2) Oak tree damaged. Remove and replace.	
				26	(1) sabal palm damaged. Remove and replace.	
		X	X	36	On north end one of two Slash pines is declining and removal is recommended.	M&A: Recommend replacement with Floss Silk tree. M&A: 12/11/17 One tree damaged and needs to be removed. The other tree remains but should be removed. M&A: 4/9/18 One tree removed other should be removed and both replaced with Floss Silk trees.
		X	X	40	Median turf areas have dead spots from previous water stressed.	
		X	X	63	Remove dead Indian hawthorn plants and replace. (8) 3 gal. size.	
		X	X	67	Turf areas need to be reviewed for dead areas that need to be replaced.	Provide proposal with square footages per median.
West R/W						
Irrigation:					Previous month water use: Part A – 55,449 gallons, Part B – 144,919 gallons.	
Part A Pump Station- Median 67 (M.P.#4), New pump station installed 1/18, 5 hp, 6" well, VFD, Motorola controller Electric meter on west R/W at pump station						
Part B Pump Station- Median 74 (M.P. #11), New pump station installed 1/18, 7.5 hp, 6" well, VFD, Motorola controller, Electric Meter West R/W adjacent to Median #9 Address #12225						
<u>QUARTERLY ADDRESSED</u>						
Part "A" - West R/W Sign Area						
Part "A" Medians #66 thru 68		X	X	65	These medians need to have renovation plantings. The future roadway construction appears to be more than 10 years out.	Hannula 12/20/13: An estimate cannot be submitted without knowing the recommended species for replacement and a plant count, Area(s) must be white lined during drive-through upon acceptance of estimate. M&A 1-15-14: Please call our office to schedule an on-site meeting to review medians.
Part "B" - West R/W Areas						
Part "B" Medians #70 thru 74			X	46	Multiple medians and multiple beds need plant replacements.	



GG MSTU Collier Blvd. Part A & B, Well Annual Water Use for 2019



Water Use Goal: (Original Part A = 1.63 ac. of plants, Part B = 2.74 ac. of plants and turf, Revised Part B = 1.86, New Total Irrigated Area = 3.49 ac.)

Recommended: Supplemental watering rate of .5 to .75 inch per week. Three-quarter inch per week equals 71,076 gallons per week or 284,305 gallons per month.

Combined 2012 total water use: 2,222,816 gallons or 18.73 inches of supplemental water pumped.

Combined 2013 total water use: 3,705,865 gallons or 31.23 inches of supplemental water pumped.

2014 Part B well & pump station relocated on 7/24/14. New well active 09/2014

Combined 2014 total water use: 3,147,554 gallons or 26.26 inches of supplemental water pumped.

Combined 2015 total water use: 1,691,015 gallons or 5.95 inches of supplemental water pumped, data not fully accurate, meter malfunctions A & B

Combined 2016 total water use: 1,866,471 gallons or 26.26 95 inches of supplemental water pumped, data not fully accurate, meter malfunctions A & B

2017: Hurricane Irma delayed readings from 09/17 to 12/17, readings are average over 3 months.

Combined 2017 total water use: 3,620,703 gallons or 50.94 inches of supplemental water pumped. New pump stations installed.

Combined 2018 total water use: 3,147,554 gallons or 31.99 inches of supplemental water pumped.

Combined 2019 total water use: 3,636,262 gallons