

McGee & Associates

Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.
Project Manager: Darryl Richards, r.l.a., P.S.D. – P.T.N.E. Dept.
Consultant: McGee & Associates
Contractor: Hannula Landscaping & Irrigation Inc.
Report Period: FY 14-15, February 2015

Location: Collier Blvd. Part A & B
Consultant's Representative: Michael A. McGee, rla, isa
Contractor's Representative: Dale Hannula
Report No.: Five – FY 14-15

S - Indicates items to be addressed by staff.

C - Indicates items 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.

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

Please return electronic copy to our office prior to next month's MSTU site review and meeting.

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>S</u> | <u>C</u> | <u>R</u> | <u>MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS</u> | <u>RESPONSE or COMMENTS</u> |
|--------------------------------------|----------|----------|----------|--|---|
| Observation dates: 02/9-12/15 | | | | MONTHLY ADDRESSED | |
| Median# 8 - 12 | | | | | |
| Part "A" - West R/W Sign Area | | X | 11 | Recommend removing Crown of thorn and mulch area. | |
| Median #3 | | X | 4 | Recommend removing Thryallis shrubs and install Sand Cordgrass. | |
| Median #4 | | X | 4 | Recommend removing two remaining beds of Red Fountain grass and replant areas with Silver Saw palmetto's. | |
| Median #5 | | X | 9 | Prune back the deadwood within the Magnolia at the northernmost end. | |
| Median #6 – Paved separator | | | | | |
| Part "B" - Median #7 | | X | 9 | Juniper bed on south end of median contains dead plants and brown foliage. Remove both and provide count for replacements. | |
| Median #8 | | X | 9 | Juniper bed on south end of median contains dead plants and brown foliage. Remove both and provide count for replacements. | |
| | | X | 13 | 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 #9 | | X | 19 | Review Juniper on south end for replacements due to auto damaged. | Hannula 12/20/13: Plant count is needed by next drive through |
| Median #10 | | X | 14 | Review south end Juniper bed for replacements. | |
| | | X | 13 | Turf areas need to be reviewed for dead areas that need to be replaced. | Provide proposal with square footages per median. |
| Median #11 | | X | 9 | Remove dead Indian hawthorn plants and replace. (8) 3 gal. size. | |
| | | X | 12 | Turf areas need to be reviewed for dead areas that need to be replaced. | Provide proposal with square footages per median. |

Design * Environmental Management * Planning * Arborist

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McGee & Associates

Landscape Architecture

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

Location: Collier Blvd. A & B

Report Period: FY14-15, February 2015 Report No.: Five

| <u>LOCATION/WORK AREA</u> | <u>S</u> | <u>C</u> | <u>R</u> | <u>MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS</u> | <u>RESPONSE or COMMENTS</u> |
|--|----------|----------|----------|--|---|
| Median #12 | | X | 11 | Turf areas need to be reviewed for dead areas that need to be replaced. | Provide proposal with square footages per median. |
| Median #13 | | X | | Median to be abandoned due to future roadway improvements. | |
| Median #14 | | X | | Median to be abandoned due to future roadway improvements. | |
| Median #15 | | X | | Median to be abandoned due to future roadway improvements. | |
| West R/W | | | | | |
| Green Blvd. - Median #1 | | X | | Median abandoned due to future roadway improvements. | |
| 18th Ave. S.W. Median | | X | 10 | Auto accident has removed 6 to 8 Bougainvillea plants on northwest side. Review and provide count for replacements. | |
| Irrigation: | X | X | 3 | The water use for December was extremely high for Part A and a little high for Part B considering the medians have been reduced in numbers. Review system and controller for issues. If the Bermad pulse counters are working, then request from the County Irrigation Project Manager to set the maximum flow per week at 25,000 gallons for Part A and 55,000 gallons for Part B at which time an alarm will be sent to Hannula Landscaping. | |
| | X | X | 6 | The irrigation water use is extremely high for Part B and high for Part A. For Part A based upon the 1.63 ac. of irrigated area; (1 acre inch of water equals 27,154.29 gallons) the water use of 161,930 gallons applied 3.6 inches of water over one month. Please review the system for leaks and the flow meter accuracy. Please review the system for leaks and the flow meter accuracy. For Part B based upon the 2.74 ac. of irrigated area; (1 acre inch of water equals 27,154.29 gallons) the water use of 465,856 gallons applied 6 inches of water over one month. By copy of this report we recommending that the system have a maximum amount flow alarm or shut down entered into the system. Recommended maximum flow for Part A south of G.G. Parkway should be set at 80,000 gallons. Recommended maximum flow for Part B north of G.G. Parkway: Once new well and pump station are operational flow demand will need to be reevaluated to determine flows. It is also recommended to perform a main line leak test. The test is to consist of pressurizing the main line for a 24 hour period and to take flow meter readings before and after. | M&A: 7/9/14 Irrigation system is being evaluated by contractor and consultant. M&A: 11-13-14 Once existing Bermad pulse counters are working it is recommended to set a weekly high use alarm for the systems as listed below. Part B irrigated area is now 1.86 ac. Pump station Part A - 25,000 gallons. Pump station Part B - 55,000 gallons. |
| Part A Pump Station- Median #4, 5 hp , 6" well, VFD | X | X | 7 | It is recommended to replace existing Bermad Hydro-meter with an upgraded model. The existing Bermad flow meter readings are becoming unreadable do to the frosting of the plastic cover. | |
| Motorola Scorio controller S3406 | | | | | |
| Electric meter on west R/W at pump station, G Irrigation 951A | | | | | |
| Part B Pump Station-Median #11, 7.5 hp , 6" well, VFD | | | | | |
| Electric Meter West R/W adjacent to Median #9 Address 12225 | | | | | |

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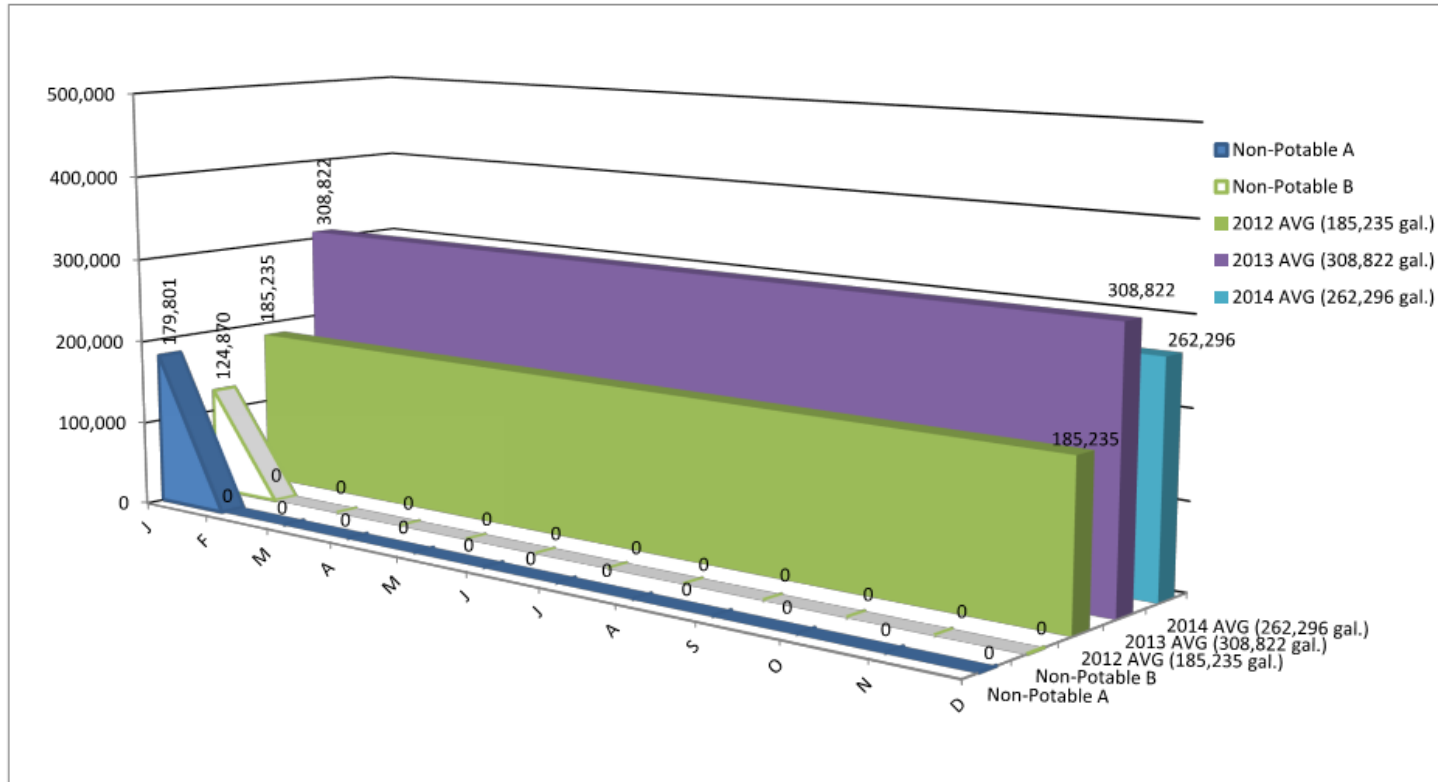
Location: Collier Blvd. A & B

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|---|----------|----------|----------|--|--|
| Motorola Scorpio controller S3405 & S3408 | | | | | |
| | | | | <u>QUARTERLY ADDRESSED</u> | |
| All Shrub plantings | | | | | |
| Part "A" - West R/W Sign Area | | | | | |
| Part "A" Medians #3 thru 5 | X | X | 14 | 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" Medians #7 thru 12 | | | | | |
| 18th Ave. S.W. Median | | | | | |

| LOCATION/WORK AREA | S | C | R | MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS | RESPONSE or COMMENTS |
|--------------------|---|---|---|---|----------------------|
|--------------------|---|---|---|---|----------------------|

GG MSTU Collier Blvd. Part A & B, Well Annual Water Use for 2015



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.

2/02/2015