

MICHAEL P. VICTORINO
Mayor

ROWENA M. DAGDAG-ANDAYA
Acting Director

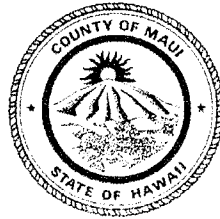
Deputy Director

GLEN A. UENO, P.E., L.S.
Development Services Administration

RODRIGO "CHICO" RABARA, P.E.
Engineering Division

JOHN R. SMITH, P.E.
Highways Division

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COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
200 SOUTH HIGH STREET, ROOM 434
WAILUKU, MAUI, HAWAII 96793

April 11, 2019

Ms. Michele M. Yoshimura *MW*
Budget Director, County of Maui
200 South High Street
Wailuku, Maui, Hawaii 96793

Honorable Michael P. Victorino
Mayor, County of Maui
200 South High Street
Wailuku, Maui, Hawaii 96793

For Transmittal to:

Honorable Keani Rawlins-Fernandez, Chair
Economic Development and Budget Committee
Maui County Council
200 South High Street
Wailuku, Maui, Hawaii 96793

Dear Chair Rawlins-Fernandez:

SUBJECT: REQUESTS/QUESTIONS FROM THE APRIL 1, 2019 MEETING
(PW-7) (EDB-1)

The Department of Public Works responds to your letter dated April 4, 2019 as follows:

1. *Regarding the Highway Beautification and Disposal of Abandoned or Derelict Vehicles Revolving Fund (Appendix A.II. Special Purpose Revenues – Schedule of Revolving/Special Funds for Fiscal Year 2020):*
 - a. *Please provide a breakdown of the planned FY 2020 expenditures.*

OFFICE OF THE
COUNTY COUNCIL

2019 APR 12 PM 12:58

RECEIVED

APPROVED FOR TRANSMITTAL

Michael P. Victorino 4/12/19
Mayor Date

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Funding for the Department of Public Works with respect to the Highway Beautification and Disposal of Abandoned or Derelict Vehicles Revolving Fund is limited to the operating budget ("B" budget) of the Highway Beautification Street Tree Trimming Program, which has a FY 2020 Mayor-proposed budget of \$316,288. This proposed budget is broken down as \$27,588 for electricity and water delivery and \$288,700 for contractual services. The contractual services budget for FY 2020 is broken down as follows:

South Maui	\$40,000	Ongoing, annual street tree pruning/removal contracts
West Maui	\$40,000	Ongoing, annual street tree pruning/removal contracts
Central Maui	\$50,000	Ongoing, annual street tree pruning/removal contracts
Upcountry	\$50,000	Ongoing, annual street tree pruning/removal contracts
Special Project	\$60,000	Ongoing removal of trees identified as potential hazards
Emergency	\$20,000	Removal of fallen trees/debris from wind and rain storm events
Inventory	\$25,000	Begin inventory of street trees to improve management
	=====	
TOTAL	\$285,000	

- b. *Please provide a justification for the \$10,000 appropriation for Teens On Call to maintain the Paia By-Pass. (YLS)*

The Paia By-pass maintenance contract with Teens on Call is managed by the Department of Environmental Management. The Department of Public Works is not involved with the management or administration of this contract, and as a result, cannot provide information to justify it.

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2. *What percentage of development-related fees covers the costs of development-related services? Why haven't these fees been raised recently? When was the last time the fees were raised? (SS)*

An analysis of the FY 2018 revenue and operating expense for the Development Services Administration is provided as Attachment "A".

3. *Please provide a comparison of the appropriations for Road Improvements, by district, for the last 10 years. (AL)*

Please see Attachment "B".

4. *Please explain the need for five new Automatic Garage Door Openers (Budget Details, page 17-30, index code 916114C). (KK)*

The five new Automatic Garage Door Openers are needed because the current garage doors are operated manually, increasing the risk of potential back strain and employee injuries. Automatic garage door openers will reduce the interaction of the mechanics with lifting the doors and the potential hazard of a (crashing down garage door) on somebody or something, and potential pinch points. All other County garage facilities already have functioning automatic garage doors.

5. *Please explain the need for a new Zeus Scanner Tool (Budget Details, page 17-30, index code 916114C). (KK)*

A new Zeus Scanner Tool is needed in order for the Hana Garage personnel to effectively troubleshoot vehicle diagnostics on vehicles and heavy trucks. There is no current tool available at the Hana Garage and currently vehicles are being transported to the dealer in Central Maui to perform this diagnostic work at a substantial downtime impact. With the purchase of new vehicles, garage diagnostic equipment must be up to date for maintenance and repairs.

6. *Please explain the need to replace a three-year-old, 4,000-gallon, stainless steel, 6x6 water tanker for Makawao (\$380,000) when the estimated use life is 12 years (Budget Details, page 17-72, index code 916536C Sub-Object Code 7040). (KK)*

The replacement of the three-year-old 6x6 Water Tanker is due to the total loss damage as a result of a serious roll-over accident on April 10, 2017.

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The damaged vehicle has been evaluated by multiple vendors in order to repair, but the labor, transport and material costs to repair the extensive damage to sub-frame and the chassis and body would exceed the value of the vehicle. Because the frame is twisted, the water tanker truck is not safe to operate. See Exhibit "1".

7. *How old is the closed-cab, 4x4 backhoe for Makawao (Budget Details, page 17-72, index code 916536C Sub-Object Code 7044)? (KK)*

The closed cab, 4x4 backhoe for Makawao is a 2005 Model. The backhoe is 14 years old, with 6,800 hours. The backhoe is a combination loader and excavator and a workhorse in the Highways districts.

8. *Please explain the need for the four new equipment items (Budget Equipment Details, page 17-73, index codes 916569C-7040, 916577C-7040, and 916389C-7044)? (KK)*

- (a) 916569C-7040 Molokai Truck Tractor – This expansion vehicle will allow Molokai Highways to maximize the capability to haul and better transport construction equipment, materials, and pavement preservation slurry emulsion tanks. Molokai is currently using Wailuku's 1980 Truck Tractor until the purchase of a dedicated tractor is made.
- (b) 916577C-7040 Lanai 4x4 Extra Cab Pickup – This expansion vehicle will be utilized by the Highway Construction & Maintenance Supervisor for day-to-day operations from road repairs, weed eating, flood-control maintenance and transportation of workers to and from jobsites.
- (c) 916389C-7044 Pavement Preservation 80 Ton Sliding Axle Trailer – This expansion equipment will be utilized by the Pavement Preservation Section to efficiently move multiple paving equipment to paving sites in one movement, i.e., two to four pieces of equipment in a single transport. This will also lower manpower cost and equipment wear and tear when transporting equipment. In addition, moving multiple pieces of equipment more efficiently will reduce the time our equipment is staged on the roadside shoulders, which will lower the potential damage from theft and vandalism.

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- (d) 916389C-7044 Pavement Preservation 10 Ton Double Smooth Drum Roller – This expansion equipment will be utilized during paving activities to maximize compaction rates to meet paving specification requirements. This equipment will be part of a three roller system used when completing hot mix paving activities and will be the first compaction equipment utilized after application of hot mix asphalt by the paver. No equipment of this size currently exists in Highways Division’s inventory. Highways Division currently rents the equipment for paving jobs, but unfortunately, it is not always available from on-island vendors and, therefore, causes logistical issues during paving operations.

- 9. *Has the Department determined the value of biodiesel on Maui in the form of jobs, wastewater treatment spill avoidance, landfill diversion, and revenue generation versus the estimated revenue of \$44,000 from the biodiesel fuel tax – if biodiesel drivers still decide to use biodiesel after a tax increase? (KK)*

Wastewater treatment spill avoidance and landfill diversion cost savings related to the production of biodiesel would be recognized by the Department of Environmental Management, not the Department of Public Works. As a result, the Department of Public Works does not have access to the information necessary to quantify these cost savings. Any such cost savings would not be recognized within the Highway Fund, and as a result, would not be available to assist with road maintenance costs.

The Department of Public Works agrees that the additional fuel tax revenue generated by the proposed biodiesel fuel tax of \$0.12/gallon would be approximately \$44,000.

Based on recent biodiesel fuel consumption and tax rates (see table below), there is no indication that reinstating a biodiesel fuel tax would significantly impact consumption.

	FY2015	FY2016	FY2017	FY2018
Gallons Consumed	379,724	372,813	348,741	367,537
Annual % Change		-1.8%	-6.5%	5.4%
Maui Fuel Tax Rate	\$0.00	\$0.09	\$0.00	\$0.00

- 10. *Regarding the Engineering Program, County Building Services, please provide more detail on the request for a \$100,000 increase (Budget Details,*

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page 17-13, Index Code 916124B, Sub-Object Code 6129, Other Services).
(MM)

This request was made due to increasing costs of electricity and R&M service contracts. The intention was for \$50,000 of the increase to be placed on Sub-Object 6120 (electricity) and \$50,000 to be placed on Sub-Object 6138 (R&M – Services/Contracts) based on projected shortfalls within these spending categories in FY 2019 as of December 31, 2018. At the time this \$100,000 increase was requested, the Department was unaware that their initial \$50,061 expansion request for electricity costs had been included in the Mayor's Proposed budget. The Department requests that the \$100,000 expansion request on Index Code 916124B Sub-Object 6129 (Other Services) be decreased to \$50,000 and moved to Sub-Object 6138 (R&M – Services/Contracts). This additional \$50,000 is required based on FY 2019 year-to-date spending as of March 31, 2019 being approximately \$45,000 over the FY 2019 budget for this Sub-Object due to increasing costs of maintenance contracts and necessary repairs for the Kalana O Maui and Kalana Pakui Buildings, many of which cannot be anticipated.

11. *Regarding the Engineering Program, MS4 Program, please provide an explanation of the MS4 Program and why it is being moved to Special Maintenance (Budget Details, page 17-14, Index Code 916126B, Sub-Object Code 6132, Professional Services). (MM)*

The Municipal Separate Storm Sewer System (MS4) became mandated by Federal regulation in 2014 and is administered by the State of Hawaii Department of Health (HDOH). The MS4 program's primary responsibility is to oversee and ensure the County's compliance with the National Pollutant Discharge Elimination System (NPDES) permit issued by the HDOH regarding the discharge of storm water. The permit terms require the County to develop a comprehensive program to improve storm water quality.

The MS4 program has six major program elements:

- (a) Public education and outreach;
- (b) Public participation and involvement;
- (c) Illicit discharge detection and elimination;
- (d) Construction runoff control;

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- (e) Post-construction storm water management; and
- (f) Pollution prevention/good housekeeping in County operations.

Initially, from 2014 through 2016, DPW's Engineering Division led the MS4 program management, but from 2017 to present, the Highways Division has taken over the program management responsibilities in collaboration with the Engineering Division and other County Departments. The largest resource obligation of this program falls to Highways because it is responsible for the operations and maintenance of the County's storm water system control measures. In regards to MS4, the Engineering Division will primarily be responsible for the planning, designing, and construction of MS4 systems and improvements, but Highways Division will be responsible for program management and maintenance on-going.

The funding program has been moved from Engineering Division under the General Fund – Engineering Program to Highways Division under the General Fund – Special Maintenance Program to align with appropriate responsibilities for the MS4 Program management and maintenance.

12. *Regarding the Special Maintenance Program (Budget Details page 17-20, Index Code 916367A, Pavement Preservation):*

- a. *Please explain the decision to transfer the Road, Bridge, and Drainage Maintenance positions.*
- b. *Are there any additional costs associated with transferring these positions? (MM)*

Although there are no additional costs to the County for transferring positions from Special Maintenance Program (General Fund) to Road, Bridge, Drainage Maintenance Program (Highway Fund), moving positions from the General Fund to the Highway Fund does result in higher Department and program level costs. This is due to employee fringe benefit costs and administrative overhead costs being charged directly to the Highway Fund for its employees. These costs are not charged directly to departments for programs that are funded by the General Fund.

13. *Relating to Road Maintenance Makawao (Budget Details, page 17-65-66, Index Code 916536B):*

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- a. *Provide an assessment of roads requiring repair, which have been prioritized for improvements in the Paia, Haiku, and Makawao areas.*

See Exhibit "2", pages 3 and 4.

- b. *Highlight road repairs that are not included in the FY 2020 Budget proposal. (MM)*

See Exhibit "2", pages 3 and 4.

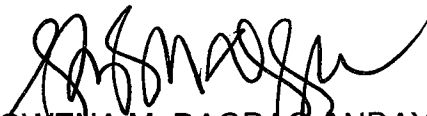
It should be noted that the funding from Index Code 916536B is used toward operational expenditures for the Highways Division, Makawao Baseyard and not used toward resurfacing projects, matches for Federal-Aid projects, or for pavement preservation projects.

14. *Relating to the bond-funded acquisition of Countywide equipment, there is a proviso stating "that \$1,550,000 shall be one D8 Dozer and one Micro Paver and sled for the Department of Public Works." Please clarify whether these items are designated for West Maui (Budget bill, page 25). (MM)*

The D8 Dozer is designated for West Maui and will be shared with the other districts. The Micro Paver will be utilized Countywide for Pavement Preservation.

Thank you for the opportunity to comment on the aforementioned. Should you require additional information, please feel free to contact me.

Sincerely,



ROWENA M. DAGDAG-ANDAYA
Acting Director of Public Works

RMDA:jso
Attachments

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**DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT SERVICES ADMINISTRATION
FY 2018 REVENUE AND OPERATING EXPENSE**

FUND	REVENUE/EXPENSE ITEM	FY 2018 ACTUAL \$	LAST FEE CHANGE	LAST FEE CHANGE COMMENTS
GENERAL FUND				
	BUILDING PERMIT	\$ 3,233,268	2018	Fees increased 15% - 20%
	ELECTRICAL PERMIT	\$ 820,163	2018	Fees increased 15% - 20%
	PLUMBING/GAS PERMIT	\$ 417,508	2018	Fees increased 15% - 20%
	CONSTRUCTION PERMIT	\$ 240,307	2017	Fees increased 100% - 200%
	SUBDIV. CONST. PLAN REVIEW *	\$ 10,000	2017	Fees increased 100% - 300%
	HIGHWAYS PERMIT (WTP)	\$ 27,384	2009	Fee not changed recently
	TOTAL REVENUE	\$ 4,748,630		
	SALARIES	\$ 1,973,294		
	SALARIES - FRINGE (94.79%)	\$ 1,870,485		
	PREMIUM PAY	\$ 49,980		
	PREMIUM PAY - FRINGE (28.82%)	\$ 14,404		
	OPERATIONS	\$ 122,434		
	EQUIPMENT	\$ -		
	TOTAL EXPENSE	\$ 4,030,598		
	SURPLUS / <SHORTFALL>	\$ 718,032		
* Average annual Subdiv. Const. Plan Review Revenue is approximately \$10,000. FY 2018 revenue of \$348,288 includes a 1-time Revolving Fund transfer of approximately \$345,000				
REVOLVING FUND				
	FINES	\$ 90,547		
	PLAN REVIEW FEE	\$ 1,265,220	2018	Fee increased from 25% to 35% of Building Permit Fee
	TOTAL REVENUE	\$ 1,355,767		
	SALARIES	\$ 768,327		
	SALARIES - FRINGE (94.79%)	\$ 728,297		
	PREMIUM PAY	\$ 6,516		
	PREMIUM PAY - FRINGE (28.82%)	\$ 1,878		
	OPERATIONS	\$ 263,714		
	EQUIPMENT	\$ 111,281		
	TOTAL EXPENSE	\$ 1,880,013		
	SURPLUS / <SHORTFALL>	\$ (524,246)		
ALL FUNDS	SURPLUS / <SHORTFALL>	\$ 193,786	3%	

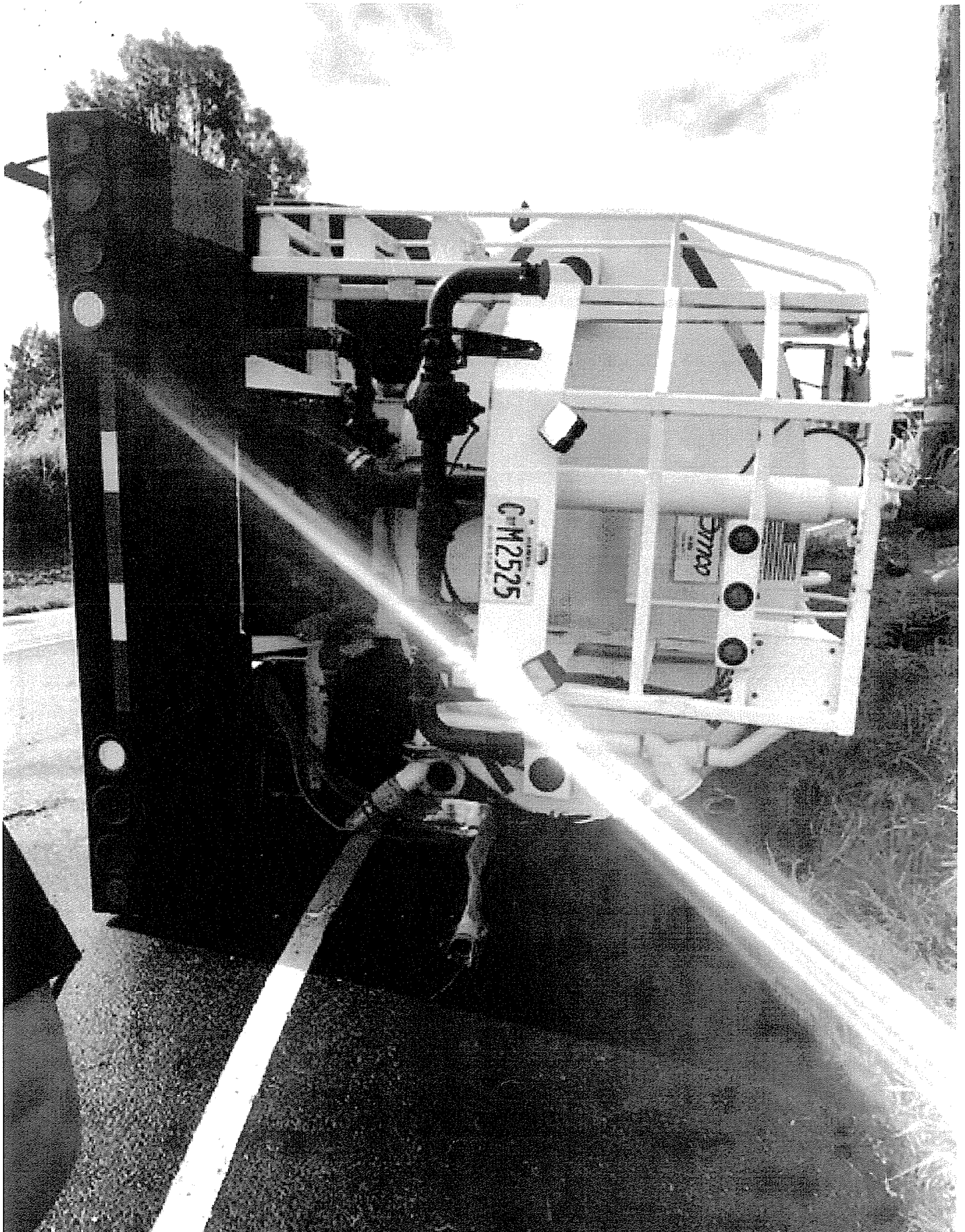
RESURFACING FUNDS SUMMARY - FY 2010 THROUGH FY 2019

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Countywide	\$1,500,000	\$330,000	\$576,736	\$651,200	\$691,744	\$843,698	\$1,018,028	\$1,284,267	\$888,541	\$1,816,792
West Maui	\$250,000	\$200,000	\$400,000	\$400,000	\$390,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
Upcountry	\$300,000	\$330,000	\$580,000	\$660,000	\$640,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000
Wailuku/Kahului	\$850,000	\$1,000,000	\$1,400,000	\$1,300,000	\$450,000	\$500,000	\$500,000	\$400,000	\$400,000	\$400,000
Paia/Haiku	\$450,000	\$530,000	\$900,000	\$900,000	\$400,000	\$700,000	\$600,000	\$600,000	\$600,000	\$600,000
South Maui	\$250,000	\$200,000	\$400,000	\$450,000	\$440,000	\$450,000	\$500,000	\$600,000	\$600,000	\$600,000
East Maui	\$300,000	\$330,000	\$580,000	\$550,000	\$350,000	\$450,000	\$400,000	\$400,000	\$450,000	\$450,000
Molokai	\$200,000	\$140,000	\$300,000	\$300,000	\$585,000	\$0	\$300,000	\$300,000	\$300,000	\$300,000
Lanai	\$200,000	\$140,000	\$300,000	\$300,000	\$300,000	\$0	\$300,000	\$300,000	\$300,000	\$300,000
SUBTOTAL	\$4,300,000	\$3,200,000	\$5,436,736	\$5,511,200	\$4,246,744	\$3,943,698	\$4,618,028	\$4,884,267	\$4,538,541	\$5,466,792
Highways Division	\$0	\$0	\$0	\$0	\$1,300,000	\$1,000,000	\$1,100,000	\$750,000	\$700,000	\$800,000
FUNDING AMOUNT	\$4,300,000	\$3,200,000	\$5,436,736	\$5,511,200	\$5,546,744	\$4,943,698	\$5,718,028	\$5,634,267	\$5,238,541	\$6,266,792

ATTACHMENT "B"

DEPARTMENT: PUBLIC WORKS
DIVISION/SECTION: HIGHWAYS/MAKAWAO
VEHICLE/EQUIPMENT NO: 1602
VEHICLE LICENSE NO: CM 2525
YEAR/MAKE/MODEL: 2015 PETERBILT 4000 GAL. WATER TANKER 6X6
REQUIRED LIC/CERT: CLASS B
MILEAGE/HOURS: 2172 MILES
TODAY'S DATE: 09/20/2018
PHOTO DATE: 11/10/2016











**COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
TENTATIVE RESURFACING SCHEDULE FOR FY 2019-2022**

Project Type/ District	FY 2019		FY 2020		FY 2021		FY 2022	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
CENTRAL MAUI CIP	19-05 S. Kamehameha Ave (W. Papa-Kuualoa) Halenani Drive Naniiloa Drive (Halenani-Oluloa)	1.68	20- Pulehu Road (Hansen Rd. to 1.4 mi)	2.80	21- Imi Kala Drive Pumehana Street Waihona Street Wailupe Drive (W. Kaena Pl - 750 Wailupe) Halia Nakoia Street (War Memorial)?	1.92	22- Kalama Street Leleihoku Street Kaiulani Place Kapiolani Street Kilinoe Place Honua Place Nuna Place Kilohi Place Alani Place Pakahi Street Liko Place	1.36
CENTRAL MAUI FAP Construction	Kea Street Pavement Reconstruction (S. Papa to S. Wakea) STP-0900(093)	1.13	Mill St Pavement Reconstruction (Market to L. Main) STP-3840(001)	1.30	Onehee Avenue Roadway Improvements (S. Papa to S. Wakea) STP-3960(001)	1.32	Kanaloa/Mahalani/Maui Lani Parkway/ Waiinu Resurfacing STP-0900(x) L. Main St. Resurfacing (Waiehu Beach Rd - Hala Pl) STP-3830(x)	4.20 1.20
CENTRAL MAUI Highways	Waihee Valley Rd	1.00						
TOTAL	Total	3.81	Total	4.10	Total	3.24	Total	6.76

EXHIBIT " 2 "

*NOTE: This resurfacing schedule is subject to modifications
and is to be used for planning purposes only.

**COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
TENTATIVE RESURFACING SCHEDULE FOR FY 2019-2022**

Project Type/ District	FY 2019		FY 2020		FY 2021		FY 2022	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
SOUTH MAUI CIP	19-	1.81	20-	1.76	21-	2.18	22-	1.41
	Kahakai Street	0.15	Olani Place	0.18	Ohina Street	0.77	Hoochie Street	0.24
	Waipahe Street (Kahakai to Hoonanea)	0.18	Kalola Place	0.13	Ohina Place	0.19	Kaipii Place	0.14
	Waipahe Place	0.11	Mahie Place	0.14	Palima Place	0.08	Ilikai Street	0.24
	Hoonanea Street	0.14	Hoo hale Place	0.16	Aone Street	0.16	Kaihoi Street	0.22
	Alahele Place	0.54	Humupea Place	0.38	Panepoo Street	0.48	Uala Place	0.12
	W. Welakahao Street	0.24	N. Opio Place	0.07	Alaume Street	0.19	Koki Street	0.09
	Halelani Street	0.36	S. Opio Place	0.10	Umalu Place	0.07	Koki Place	0.36
	Wailana Place	0.09	Ailana Place	0.17	Aukahi Street (Ohina to Panepoo)	0.18		
			Kaikea Street	0.27	Hapakolu Place	0.06		
			Lakau Place	0.16				
	SOUTH MAUI FAP Construction					S. Kihei Rd. Pavement Reconstruction (Lipoa to Auhana) STP-3100(x)	2.60	
SOUTH MAUI Highways	Mapu Drive/Mapu Place (slurry) Akala Drive (slurry)	1.12 1.93						
TOTAL	Total	4.86	Total	1.76	Total	4.78	Total	1.41

*NOTE: This resurfacing schedule is subject to modifications and is to be used for planning purposes only.

**COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
TENTATIVE RESURFACING SCHEDULE FOR FY 2019-2022**

Project Type/ District	FY 2019		FY 2020		FY 2021		FY 2022	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
UPCOUNTRY CIP	19- Alae Rd (300 feet from Kekaulike Hwy to Address 600)	1.97 0.60	20- Kolohala Dr	1.73 0.51	21- Mahola St (Makawao Ave to Ulele St)	1.84 0.35	22- Ahualani Pl	2.48 0.09
	Kulalani Cir	0.21	Kamila St	0.22	Alaea St	0.10	Pau Hana Rd	0.7
	Ponimoi Pl	0.08	Kamila Pl	0.05	Hiehie St	0.11	Kilihune Pl	0.11
	Waiakoa Rd (400 ft from Kekaulike Ave to Kuulani Pl)	0.48	Kahoea Pl	0.17			Hale Kipa Rd (Kalama School Access to Pau Hana)	0.12
	Waiakoa Pl	0.11	Kaweo Pl	0.05	Alaiki Pl	0.06	Hoomaha Rd (Hale Kipa to Pau Hana)	0.3
	Kuulani Pl	0.09	Kepa Rd	0.3	Auoli Dr (Kuhina Pl to End)	0.36	Makalani Pl	0.18
	Omaopio Rd (Lower Kula to Kula Hwy)	0.13	Mauna Pl	0.43	Kuhina Pl	0.03	Apana Rd	0.53
	Lower Kula Rd (Omaopio to Ka)	0.16			Ahina Pl	0.03	Kaiaulu Lp (Speed Bumps)	0.45
	Ioio Pl	0.11			Pamakani Pl (Needs Speed Bumps)	0.24		
					Puapana Pl	0.05		
					Leinaala Way	0.06		
					Mahanani Pl	0.25		
					Pahala St	0.11		
					Maohu St (Ukiu to Mailuna)	0.09		
	UPCOUNTRY FAP Construction					Iolani/Loha/Liholani/Makani Pavement Rehabilitation STP-0900(099)	4.82	
UPCOUNTRY Highways			Lower Ehu Road	0.20	To be determined		To be determined	
TOTAL	Total	1.97	Total	1.73	Total	6.66	Total	2.48

*NOTE: This resurfacing schedule is subject to modifications and is to be used for planning purposes only.

4/11/19

**COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
TENTATIVE RESURFACING SCHEDULE FOR FY 2019-2022**

Project Type/ District	FY 2019		FY 2020		FY 2021		FY 2022	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
PAIA/HAIKU CIP	18-32	0.96	20-	1.14	21-	1.15	22-	1.04
	East Kuiaha Road (Hana Hwy. to Waipuhia Rd.)	0.76	Puuomalei Rd	0.45	Kauhikoa Road (Address 1105 to Haiku Rd)	0.62	Kahope PI	0.10
	Haiku Road (East Kuiaha to Peahi Rd.) (vicinity of 1565 Haiku Rd to W.Kuiaha Rd)	0.20 0.41	Ike Dr Kaluanui Rd (Kokomo Rd to Bridge)	0.25 0.44	Lia PI Nanihoku PI	0.21 0.32	Puu KOA PI E Lelehuna PI W Lelehuna PI Piliialoha St Waikina Loop (Hana Hwy to Address 185; Address 161 (Address 185 to Address 161)	0.12 0.05 0.12 0.17 0.35 0.13
PAIA/HAIKU FAP Construction	STP-0365(011) Kaupakalua Road Phase II (East Kuiaha to Hana Hwy)	6.20						
PAIA/HAIKU Highways	Nonohe Place Paani Place	0.80 0.40	To be determined		To be determined		To be determined	
TOTAL	Total	8.36	Total	1.14	Total	1.15	Total	1.04

**NOTE: This resurfacing schedule is subject to modifications
and is to be used for planning purposes only.*

4/11/19

**COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
TENTATIVE RESURFACING SCHEDULE FOR FY 2019-2022**

Project Type/ District	FY 2019		FY 2020		FY 2021		FY 2022	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
WEST MAUI CIP	19- Lower Honoapiilani Road (Hoohui Rd. to Kahana Nui Bridge, Napilihau St. to Papaua Pl.)	1.31 1.31	20- Baker Street Wainee Street (Baker to Kenui) Luakini Street (Lahainaluna Rd. to Hale St.) Hotel Street Wahie Lane	1.65	21- Hoapili Street (Huea to End) Huea Street Keao Street Kapunakea Street (Hwy. to end) Dickenson Street Nahale Place S. Nahale Place Ipukula Way	1.69	22- Kahana Place Puamana Place Puu Anoano Street	1.21
WEST MAUI FAP Construction								
WEST MAUI Highways	Napilihau Subdivision (slurry) (to be determined)	??						
TOTAL	Total	1.31	Total	1.65	Total	1.69	Total	1.21

**NOTE: This resurfacing schedule is subject to modifications
and is to be used for planning purposes only.*

**COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
TENTATIVE RESURFACING SCHEDULE FOR FY 2019-2022**

Project Type/ District	FY 2019		FY 2020		FY 2021		FY 2022	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
HANA CIP	19-19 Hana Hwy (Haneoo Rd to 1.1 mile south) FY 19 Line item funding (Maka'ala'e Rd Resurfacing) (mill & fill)	2.20	20- Piilani/Hana Hwy End State Hwy to MP15 (1.7 mi)	3.40	21- Used with FY 2020 funds		22- Piilani/Hana Highway (to be determined)	4.00
HANA FAP Construction								
HANA Highways								
TOTAL	Total	2.20	Total	3.40		0.00		4.00

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**COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
TENTATIVE RESURFACING SCHEDULE FOR FY 2019-2022**

Project Type/ District	FY 2019		FY 2020		FY 2021		FY 2022	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
MOLOKAI CIP	Used with 2018 funds		20- Kalama Road Pakala Place Analu Road Rudolph Road Nanikai Place Akeu Way Koala Way Recon all roads, supplemental funding required.	1.04 0.31 0.07 0.08 0.25 0.17 0.10 0.06	Used with 2020 funds		22- Manila Road Makaena Place	1.11 0.45 0.66
MOLOKAI FAP Construction								
MOLOKAI Highways								
TOTAL	Total	0.00	Total	1.04	Total	0.00	Total	1.11

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**COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
TENTATIVE RESURFACING SCHEDULE FOR FY 2019-2022**

Project Type/ District	FY 2019		FY 2020		FY 2021		FY 2022	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
LANAI CIP	Used with 2018 funds		20-	1.34	Used with 2020 funds		22-	1.27
			Jacaranda Street (3rd to 7th)	0.31			5th Street (Fraser to Nani)	0.46
			Gay Street (3rd to 7th)	0.31			7th Street (Fraser to Nani)	0.46
			3rd Street (Fraser to Lanai)	0.36			8th Street (Fraser to Lanai)	0.35
			6th Street (Fraser to Lanai)	0.36				
LANAI FAP Construction								
LANAI Highways								
TOTAL	Total	0.00	Total	1.34	Total	0.00	Total	2.54

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