



Board of County Commissioners

Regular Meeting

Thursday, December 15, 2016

5:30 P.M.

School Board Administrative Complex



ROAD PRIORITIZATION

Kevin Kirby, Assistant County Manager

December 15, 2016



FIVE YEAR WORK PLAN

PROJECT NAME	2016	2017	2018	2019	2020	2021
FDOT FUNDED PROJECTS						
Herlong 1	COMPLETED					
Herlong 2			Q1			
Old Wire 3		Q1				
Bell		Q2				
Real	Q4					
Sisters Welcome	COMPLETED					
Suwannee Valley	COMPLETED					
King/Mauldin		Q1				
Moore Rd		Q1				
CR 241			Q1			
Mt Carmel/Troy			Q1			
Callahan		Q1				
CR 242				Q1		
Cypress Lake				Q4		
BND Sidewalk (Voss--US90						Q3
BND Sidewalk (SS--SR47)						Q3
Turner Rd. Sidewalk(US90 to Battlehill Ln.						Q3
COUNTY FUNDED PROJECTS						
Brim	Q4					
Mt Carrie	Q4					
All dates are estimated CONSTRUCTION start, and depend on Right of Way Acquisition						



FUNDING SOURCES

- FLORIDA DEPARTMENT OF TRANSPORTATION

SCRAP—Small County Road Assistance Program

Resurfacing existing roads

Funding 100%

SCOP---Small County Outreach Program

Rehabilitation, Widening, Resurfacing, Unpaved
to Paved

Funding 75%



FUNDING SOURCES

CIGP---County Incentive Grant Program

Relieve Congestion

Funding 50%

TAP---Transportation Alternative Program

Part of Local Agency Program (LAP)

Federal Monies

Funds Sidewalks, Trails, Storm Water, etc.

Funding 100%



ROAD CLASSIFICATIONS

- ARTERIAL
- COLLECTOR
 - MAJOR
 - MINOR
- LOCAL



ARTERIAL CLASSIFICATION

- ARTERIAL

Large Volumes/Long Distances

Life Span 15 Years

95 Miles in County

Maintain 6 Miles Annually = \$1.477 Million

ARTERIAL ROADS CHART #1

Arterials

Quadrant	Name	Type	Length (FT)	Area (SY)	Length (Miles)	
SE	CR 18		23971.2	59475	4.54	
SW	CR 18		28195.2	75187	5.34	
SW	Tustenuggee (CR 131)	AVE	77088	209851	14.6	
SE	CR 240 (Myrtis)	RD	7444.8	16544	1.41	
SW	CR 240		62990.4	153977	11.93	
SW	CR 242		30412.8	74342	5.76	
SW	CR 242 A		11352	27850	2.15	
SE	CR 245		69326.4	184870	13.13	
NW	CR 250		61195.2	163187	11.59	
SW	CR 252		30412.8	74342	5.76	
SE	CR 252		46728	122012	8.85	
SW	CR 252B		11246.4	29990	2.13	
SW	Sister's Welcome (CR 341)	RD	25344	68288	4.8	
SW	Bascom Norris	DR	14256	38016	2.7	
			499963	1297933	94.69	

TOTAL
MILES 94.69

TOTAL \$ \$ 22,163,650.00

LIFESPAN
(YEARS) 15

TOTAL
COST
PER
YEAR \$ 1,477,576.67



COLLECTOR CLASSIFICATION

- COLLECTOR

Connects arterial and local

Short trips/moderate speeds and volumes

Two Categories—Major/Minor

MAJOR COLLECTOR ROADS

CHART #2

Major Collector

Quadrant	Name	Type	Length (FT)	Area (SY)	Length (Miles)	
SE	ACADEMIC	AVE	5702.4	12564	1.08	
SW	BIRLEY	AVE	27561.6	61248	5.22	
NW	BROWN	ROAD	20592	50336	3.9	
SW	CALLAHAN	AVE	2904	5808	0.55	
SE	COUNTRY CLUB (CR133)	ROAD	37699.2	100531	7.14	
SW	CR 138		34320	91520	6.5	
SW	CR 238 (ELIM CHURCH)	ROAD	45936	122496	8.7	
SW	CR 778		17107.2	45619	3.24	
	CR 245A		10507.2	23349	1.99	
NW	CR 25A		16368	43648	3.1	
	CR 349		28459.2	75891	5.39	
NW	CR 6	STREET	14784	37781	2.8	
SW	DYAL	AVE	5966.4	12596	1.13	
NW	FALLING CREEK	ROAD	34320	78173	6.5	
NE	GUM SWAMP (CR250)	ROAD	64680	146105	12.25	
SW	HOPE HENRY	STREET	6600	13200	1.25	
SW	ICHETUCKNEE	AVE	27297.6	60661	5.17	
SW	KOONVILLE (CR252A)	ROAD	14784	36139	2.8	
NW	LASSIE BLACK	STREET	26980.8	67692	5.11	
SW	MARVIN BURNETT	ROAD	3748.8	10063	0.71	
NW	NASH	ROAD	19588.8	54413	3.71	
NW	NOEGEL (CR 135)	ROAD	23760	58080	4.5	
NW	SUWANNEE VALLEY	ROAD	26400	59869	5	
SE	TIMBERWOLF	DRIVE	6652.8	15154	1.26	
NW	TURNER	AVE	11035.2	26975	2.09	
NW	WHITE SPRINGS	AVE	12144	26987	2.3	

545899	1336900	103.39
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TOTAL MILES	103.39
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TOTAL \$	\$ 24,152,650.00
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LIFESPAN (YEARS)	20
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MINOR COLLECTOR ROADS

CHART #3

Minor Collector					
Quadrant	Name	Type	Length (FT)		Length (Miles)
SE	ALFRED MARKHAM	STR	9979.2	23284.8	1.89
SW	ARLINGTON	BLVD	7392	17248	1.4
SW	ARROWHEAD	TER	4012.8	8025.6	0.76
SW	BARWICK	TER	5649.6	10043.7	1.07
SW	BRIM	STR	13728	0	2.6
SW	CANNON CREEK	DR	5649.6	11299.2	1.07
NW	COMBS	TER	11140.8	25685.7	2.11
SW	DEKLE	TER	7920	15840	1.5
SE	FAMILY	RD	14414.4	30430.4	2.73
SW	FINLEY LITTLE	LN	5280	11733.3	1
SW	GODBOLD	AVE	3960	8800	0.75
SW	HERLONG	STR	32366.4	0	6.13
SW	HOWELL	STR	10348.8	20881.6	1.96
SW	JAFUS	AVE	5332.8	10665.6	1.01
SW	KICKLIGHTER	RD	3643.2	7286.4	0.69
SW	KING	AVE	14467.2	32551.2	2.74
SW	KIRBY AVE	AVE	5332.8	12146.9	1.01
NW	LAKE CITY	AVE	4910.4	12003.2	0.93
NW	LEONIA	WAY	2217.6	5174.4	0.42
SW	LITTLE	RD	12724.8	28277.3	2.41
SW	MAULDIN	AVE	13358.4	29685.3	2.53
NE	MCCLOSKEY	AVE	17212.8	41597.6	3.26
SW	MICHIGAN	STR	2059.2	4880.3	0.39
NW	MOORE	RD	17635.2	37229.9	3.34
SW	MOUNT CARMEL	AVE	8712	18392	1.65
SW	NEWARK	DR	15681.6	38332.8	2.97
SW	OLD WIRE	RD	24288	64768	4.6
SE	RACETRACK (133 B)	LN	5525	12277.8	1.0
SW	SABRE	AVE	7920	17600	1.5
SW	THOMPkins	LP	3062.4	7087.8	0.58
SW	TOMMY LITES	STR	13780.8	33686.4	2.61
SW	TROY	STR	8712	19360	1.65
SW	UPCHURCH	AVE	4224	8565.33	0.8
SW	WASHINGTON	AVE	5280	12906.7	1
SW	WESTER	DR	10401.6	23114.7	1.97
SW	WILSON SPRINGS	RD	20011.2	48916.3	3.79
NW	WINFIELD	STR	6705.6	15206.8	1.27
	CR 241		10982.4	21757.4	2.08
SW	WALTER	AVE	7920	19360	1.5
SW	BISHOP	AVE	8606.4	22950.4	1.63
SW	JUNCTION	RD	8341	20389.1	1.58
NW	QUEEN	RD	11616	25813.3	2.2
CR133b					
			412506	835255	78.13
				TOTAL	
				MILES	78.13
			TOTAL \$	\$	21,067,721.40
			LIFESPAN		
			(YEARS)		25
			TOTAL		
			COST		
			PER		
			YEAR \$	\$	842,708.86



LOCAL CLASSIFICATION

- LOCAL

Provides initial access to collector and arterial roadways.

325 miles in County

35 year life span

\$2.617 million annually to maintain 11 miles

LOCAL ROADS CHART #4

Locals

		Mileage	Square Yards				Cost per Year
	Total County Paved Miles	600					
*****	Remaining Roadways						
	Arterial Total	94.69	1297933				\$ 1,477,576.67
	Major Collector Total	103.39	1336900				\$ 1,207,632.50
	Minor Collector Total	78.13	835255				\$ 842,708.86
			50% rebuild	50% resurf		30	
	Local Roadways	323.79	29,950,932.39	48,569,079.55		life span	\$ 2,617,333.73
			per mile	per mile			

TOTAL MILES 600

TOTAL COST PER YEAR \$ 6,145,251.75



ANNUAL MAINTENANCE

- TOTAL NEEDED ANNUALLY TO MAINTAIN
CURRENT INVENTOR

\$6.1 MILLION



ROAD MAINTENANCE

- LEVELING/RESURFACING (LR)
\$185,000/MILE
- MILLING/RESURFACING (MR)
\$185,000/MILE
- WIDENING/REBUILDING/RESURFACING (WRR)
\$300,000/MILE



ROAD ANALYSIS

- PAVEMENT SURFACE EVALUATION RATING SYSTEM (PASER)
- COLUMBIA COUNTY ENGINEERING PAVEMENT ASSESSMENT (CEPA)



PASER SYSTEM

- EACH ROAD IS GIVEN A SCORE OF 1-10 UTILIZING 10 DIFFERENT CATEGORIES
- HIGHER SCORE = BETTER CONDITION

Paser Rating System

Surface Rating	Visible Distress*	General Condition/ Treatment Measure
10 Excellent	None.	New construction.
9 Excellent	None.	Recent overlay. Like new.
8 Very Good	No longitudinal cracks except reflection of paving joint. Occasional transverse cracks, widely spaced. All cracks sealed or tight.	Recent sealcoat or new cold mix. Little or no maintenance required.
7 Good	Very slight or no raveling, surface shows some traffic wear. Longitudinal cracks. Transverse cracks, little or slight crack raveling. No patching or very few patches in excellent condition.	First signs of aging. Maintain with routine crack filling.

*Individual pavements will not have all of the types of distress listed for any particular rating. They may have only one or two types.

Paser Rating System

Surface Rating	Visible Distress*	General Condition/ Treatment Measure
6 Good	Slight raveling and traffic wear. Longitudinal cracks. First sign of block cracking. Slight to moderate flushing or polishing. Occasional patching in good condition.	Shows signs of aging. Sound structural condition. Could extend life with sealcoat.
5 Fair	Moderate to severe raveling. Longitudinal and transverse cracks show first signs of slight raveling and secondary cracks. First signs of longitudinal cracks near pavement edge. Block cracking up to 50% of surface. Extensive to severe flushing or polishing. Some patching or edge wedging in good condition.	Surface aging. Sound structural condition. Needs sealcoat or thin non-structural overlay.

*Individual pavements will not have all of the types of distress listed for any particular rating. They may have only one or two types.

Paser Rating System

Surface Rating	Visible Distress*	General Condition/ Treatment Measure
4 Fair	Severe surface raveling. Multiple longitudinal and transverse cracking with slight raveling. Longitudinal cracking with wheel path. Block cracking. Patching in fair condition. Slight rutting or distortions.	Significant aging and first signs of need of strengthening. Would benefit from a structural overlay.
3 Poor	Closely spaced longitudinal and transverse cracks often showing raveling and crack erosion. Severe block cracking. Some alligator cracking. Patches in fair to poor condition. Moderate rutting or distortion. Occasional potholes.	Needs patching and repair prior to major overlay. Milling and removal of deterioration extends the life of overlay.

*Individual pavements will not have all of the types of distress listed for any particular rating. They may have only one or two types.

Paser Rating System

Surface Rating	Visible Distress*	General Condition/ Treatment Measure
2 Very Poor	Alligator cracking. Severe distortions. Extensive patching in poor condition. Potholes.	Severe deterioration. Needs reconstruction with extensive base repair. Pulverization of old pavement is effective.
1 Failed	Severe distress with extensive loss of surface integrity.	Failed. Needs total reconstruction

*Individual pavements will not have all of the types of distress listed for any particular rating. They may have only one or two types.



CEPA SYSTEM

- EACH ROAD GIVEN A SCORE OF 1-4 ON 18 CATEGORIES
- HIGHER NUMBER = WORSE CONDITION



CEPA CATEGORIES

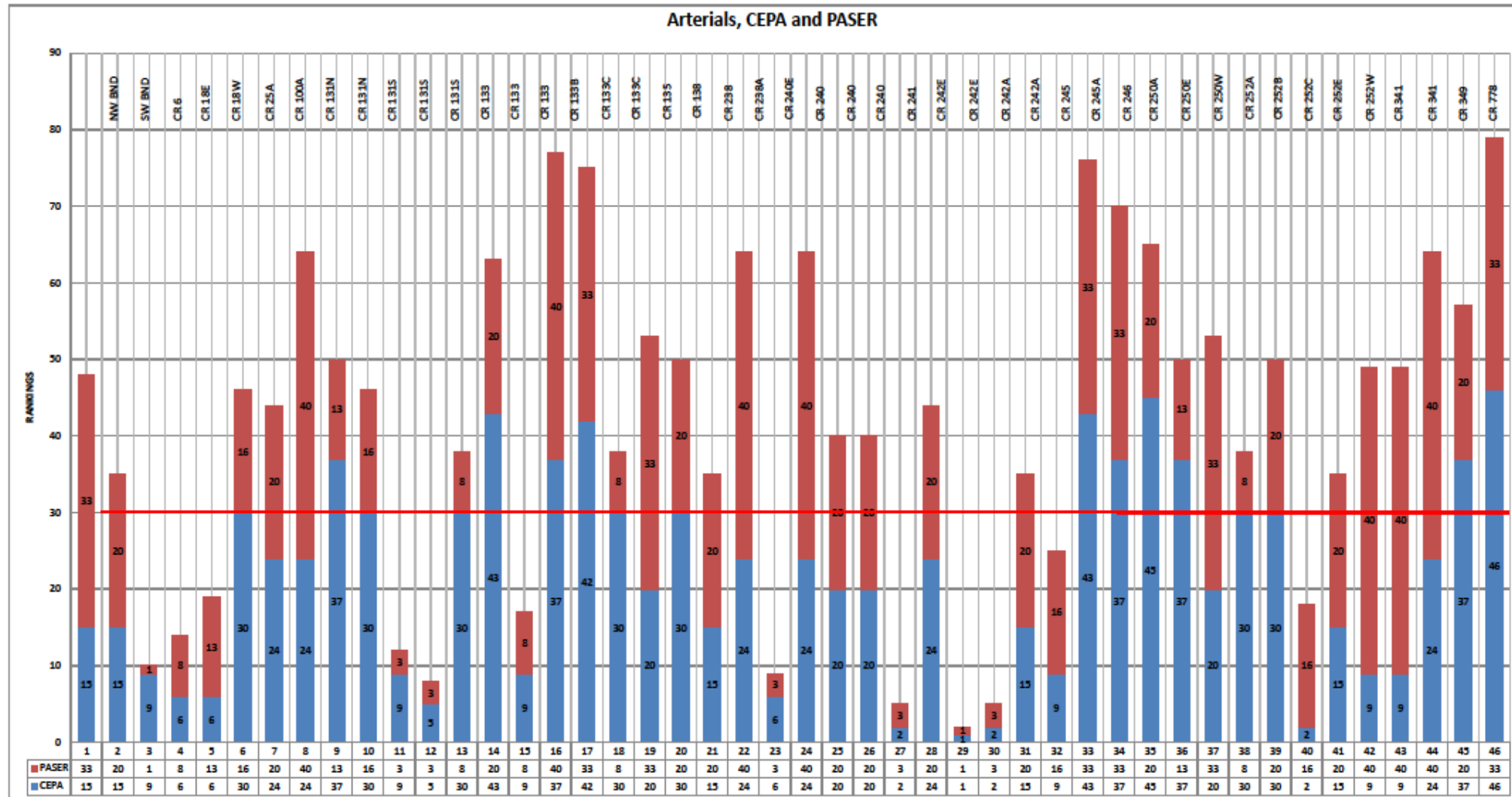
- A. Physical Condition of Paved Road
- B. Estimated Repairs Cost
- C. Right of Way – FIELD
- D. Right of Way - OFFICE
- E. Asphalt Thickness
- F. Base Thickness
- G. Public Works Asphalt Repair Maintenance Logs
- H. Roadway Travel Lane Widths
- I. Visual/Observed Possible Dangerous Driving Conditions
(Safety Conditions)



CEPA CATEGORIES

- J. Accident per Timeframe per Daily Traffic Count
- K. ADT
- L. Classification of Roadway
- M. Through Road/Dead End
- N. Roadway Life Project
- O. Percent of Loss of Accessibility for Emergency Services
Response Vehicles
- P. Number of Residents Affected
- Q. Special Areas
- R. Funding Percent from Outside Sources

ARTERIAL ROADS GRAPH #1

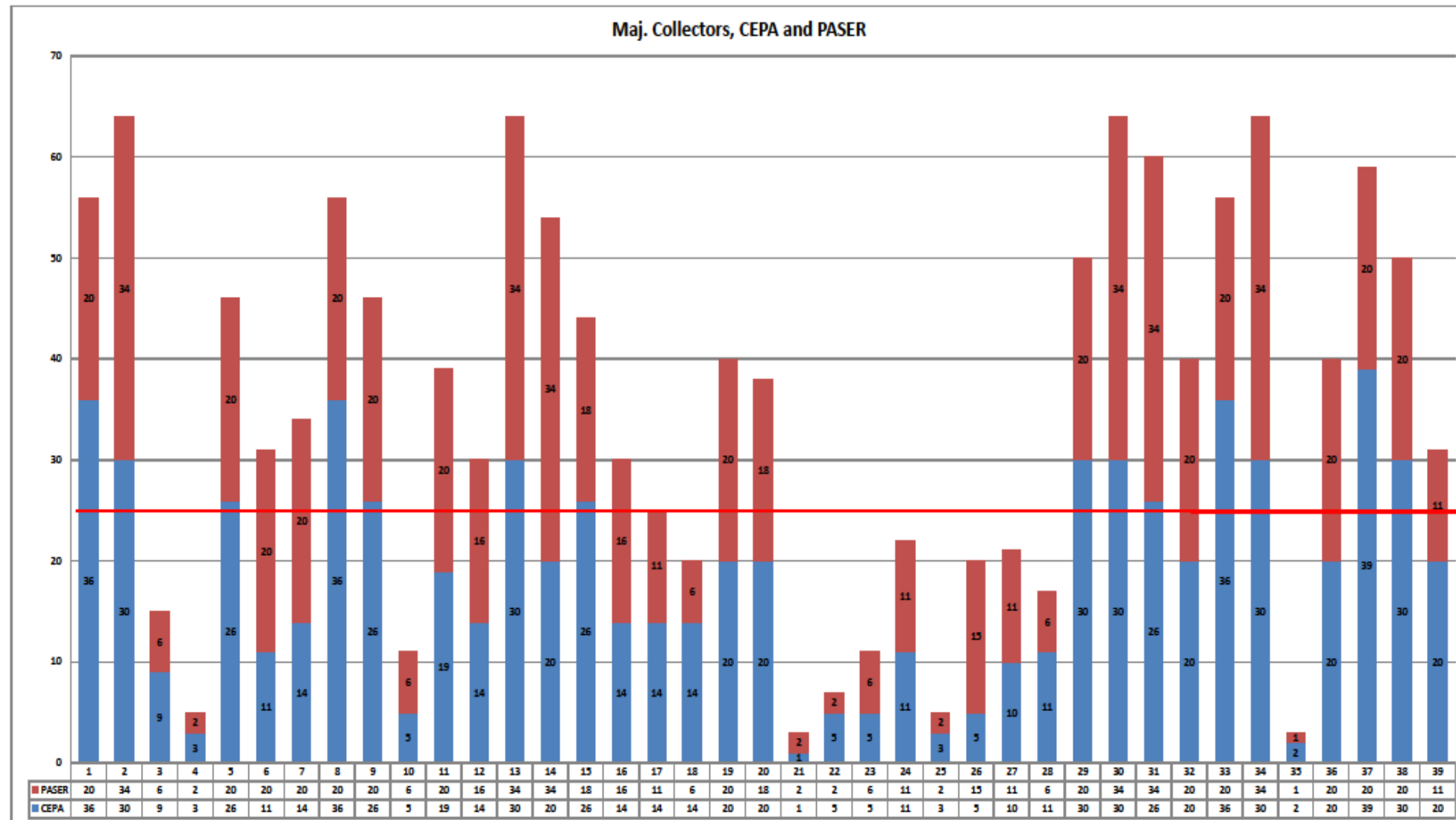




ARTERIAL RANKINGS

- CR 242E --- CR 131 TO US 441
- CR 131S --- OLD BELLAMY TO CR 18
- CR 240E --- CR 245 TO COUNTY LINE
- CR 6 --- COUNTY LINE TO US 441
- CR 131S ---CR 242 TO US 441
- CR 18E --- US 441 TO COUNTY LINE
- CR 133 ---CR 252 TO US 90
- CR 252C ---CR 252W TO CR 252B
- CR 18W --- US 27 TO US 441
- CR 245 --- COUNTY LINE TO WASHINGTON

COLLECTOR ROADS GRAPH #2





MAJOR COLLECTOR RANKINGS

- SW BIRLEY--- CR 242W TO GABRIEL
- SW ARLINGTON
- NW WINFIELD
- SW KICKLIGHTER ---CR 341 TO CANNON CREEK
- SW BIRLEY --- CR 242W TO CF 252W
- SW BIRLEY--- GABRIEL TO US90
- CANNON CREEK --- KICKLIGHTER TO
ARROWHEAD



RECOMMENDATIONS

- SCRAP

CR 242E (FROM CR 131 TO US 441)

NW WINFIELD

- SCOP

CR 133 (FROM CR 252 TO US 90)

SW BIRLEY (FROM CR 242W TO CR 252W)



RECOMMENDATIONS

- CIGP

TOMPKINS ROAD

DAIRY ROAD

- TAP

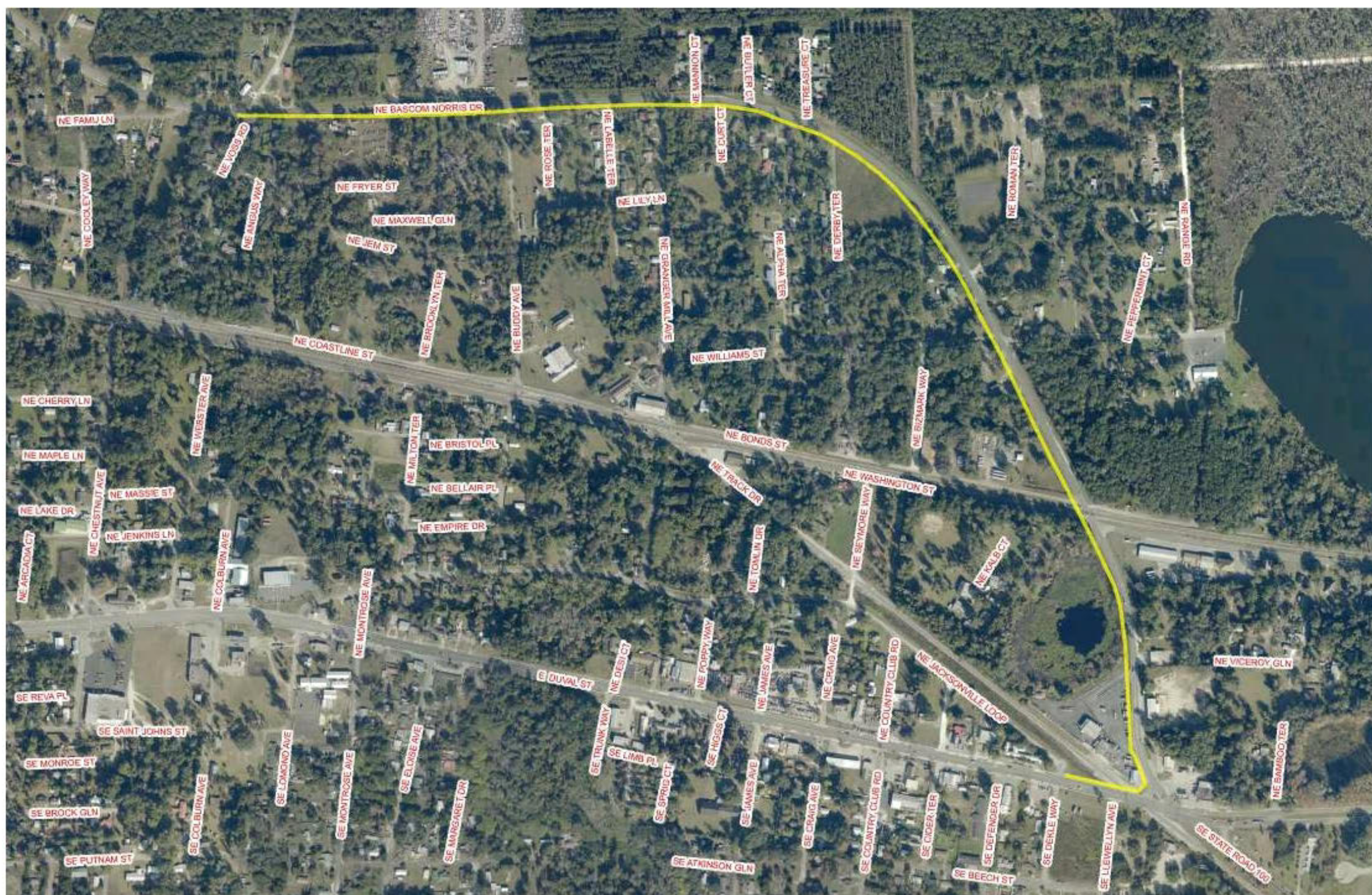
BASCOM NORRIS (VOSS TO US 90)

BASCOM NORRIS (SOUTHSIDE SPORTSCOMPLEX TO SR 47)

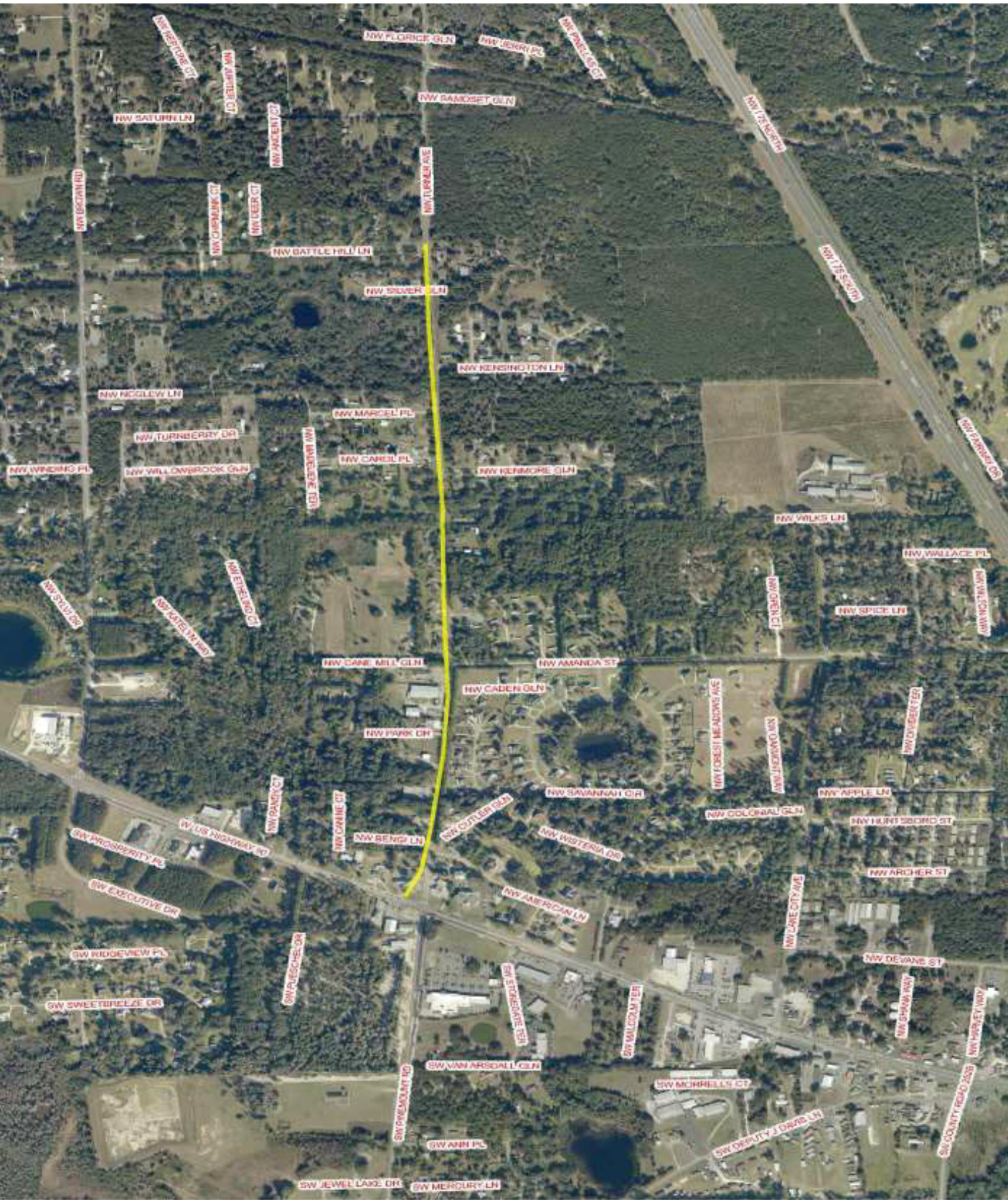
TURNER ROAD (US 90 TO BATTLEHILL)

FT. WHITE COMMUNITY (EXTEND ON SR 47 TO FT. WHITE LIBRARY) \$103,226

FT. WHITE TRAIN DEPOT IMPROVEMENTS
(PARKING, LIGHTING, SIDEWALKS) \$108,891







Ft. White Library



Train Depot





Board of County Commissioners

Regular Meeting

Thursday, December 15, 2016

5:30 P.M.

School Board Administrative Complex

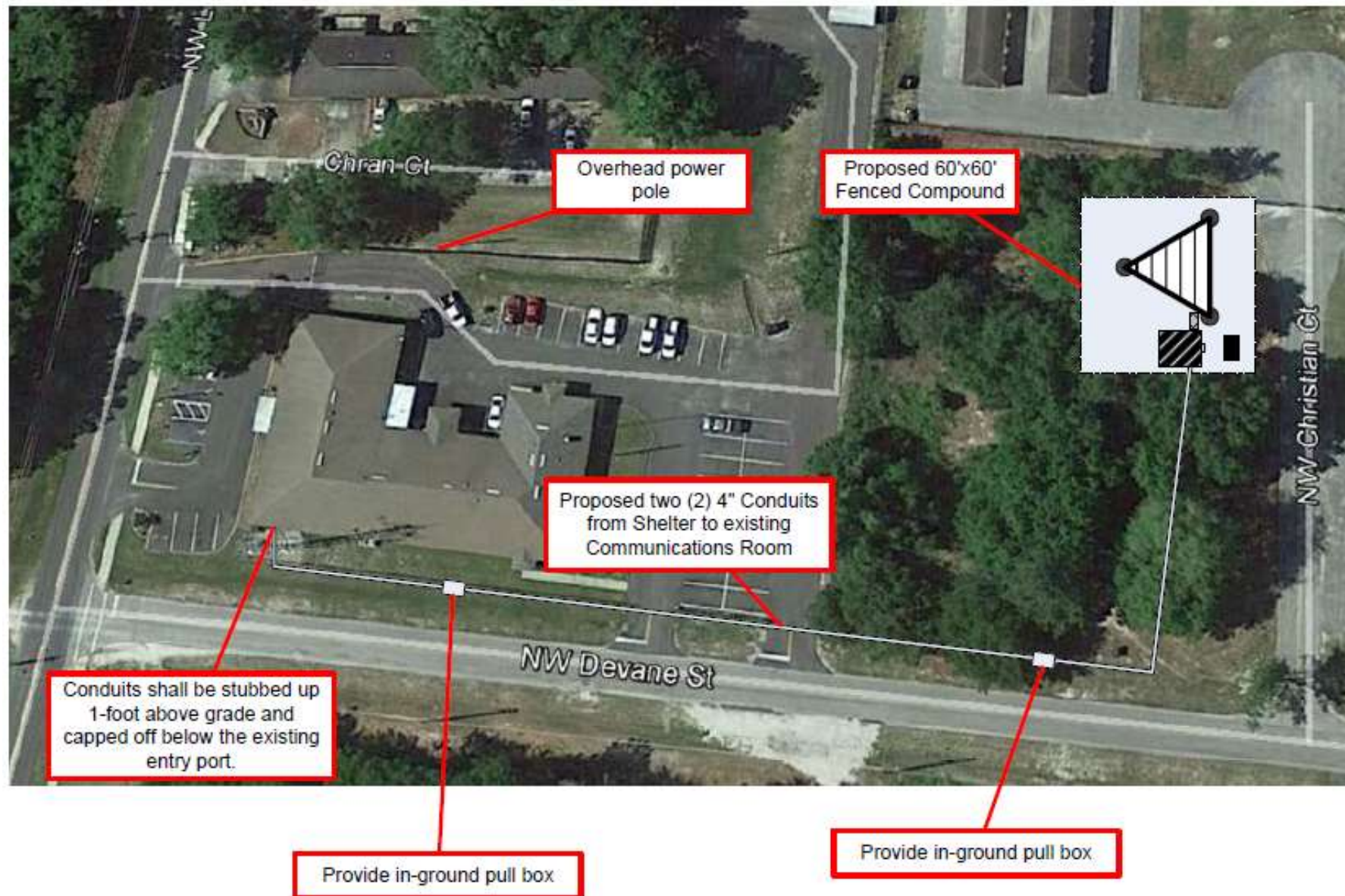






Motorola Agreement: 2016-R

- Communications Site Development Agreement with Motorola Solutions, Inc. - \$1,277,888.00
- Three (3) new towers
 - Emergency Operations Center
 - Columbia County Sheriff's Office
 - Deep Creek Fire Department
- New communications shelters and generators for each location and Lulu Fire Department.



Motorola Agreement: 2016-R Emergency Operations Center







	New 300' self-supporting tower per specifications		New 12' x 12' communications shelter per specifications
	New waveguide ice bridge as required per specifications		New diesel generator per specifications



Motorola Agreement: 2016-R

Columbia County Sheriff's Office

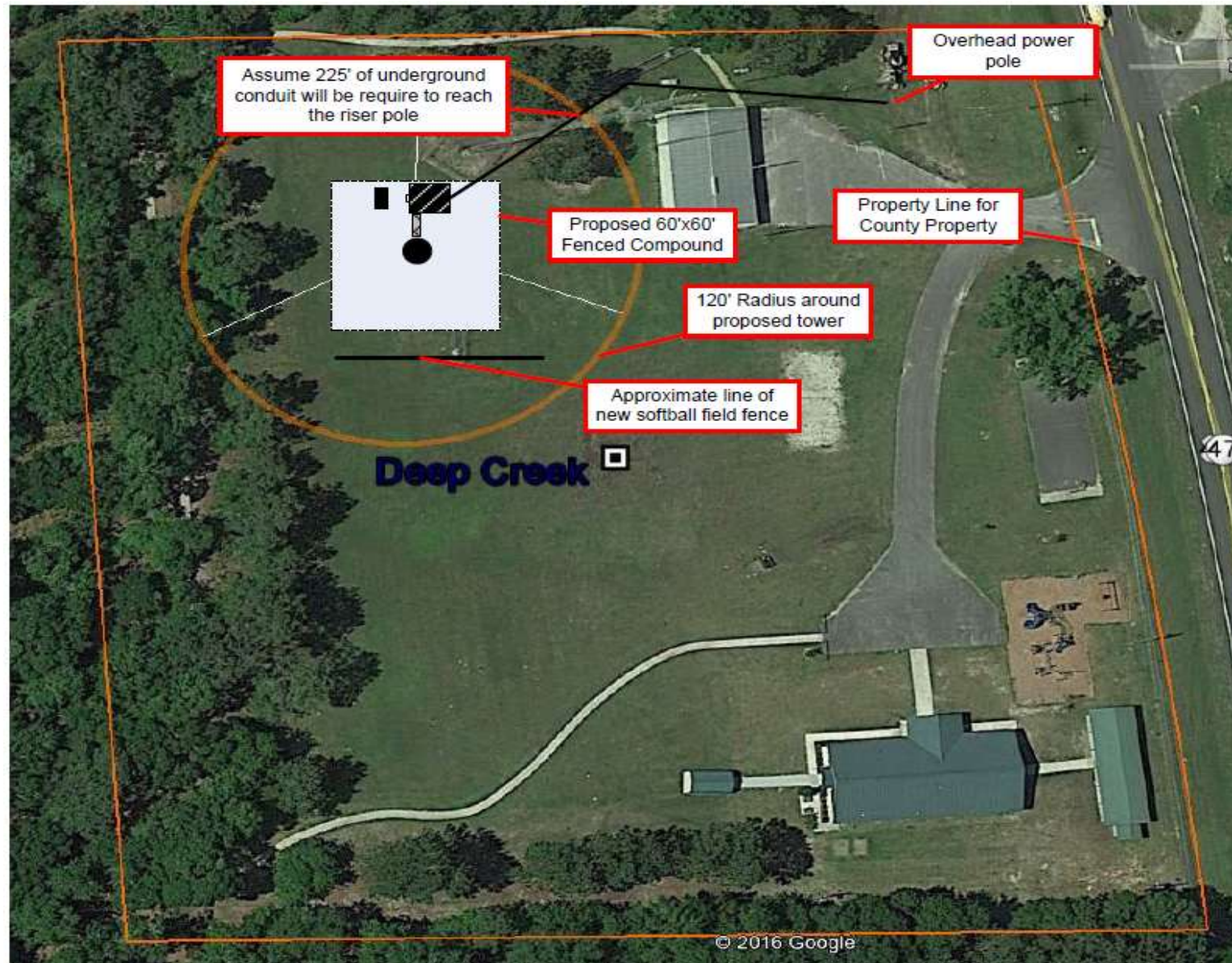






	New 155 self-supporting tower per specifications		New 12' x 12' communications shelter per specifications
	New waveguide ice bridge as required per specifications		New diesel generator per specifications



Motorola Agreement: 2016-R

Deep Creek Fire Department



	New 300' guyed tower per specifications		New 12' x 12' communications shelter per specifications
	New waveguide ice bridge as required per specifications		New diesel generator per specifications



Motorola Agreement: 2016-R

Lulu Fire Department



●	Existing 150' monopole tower to remain
—	New waveguide ice bridge as required per specifications
▨	New 12' x 12' communications shelter per specifications
■	New diesel generator per specifications



Motorola Agreement: 2016-R

Pricing Summary

Communications Site Development Project Pricing Worksheet Summary

Communications Site Development Project Pricing Worksheet Summary	
Site of Work	Total Costs
EOC	\$414,190.21
Deep Creek	\$380,445.20
CCSO	\$307,861.17
Lulu	\$183,318.41
BONDING	\$3,541.00
SUBTOTAL	\$1,289,355.99
Discounts or Trade-Ins	-\$11,468.00
PROJECT TOTAL	\$1,277,887.99

**If Site Development is awarded to Motorola Solutions, Inc., Columbia County will receive a technology credit of \$300,000 for the purchase of our P25 Radio Solution, as well as \$500.00 off every P25 APX radio subscriber purchased.*

Motorola Solutions' proposal and pricing is valid 90 days from the date of our response.



External Budget Amendment

BA# 17-18

- Purchase Two (2) Fire Engines: \$297,561.00 each.
- Purchase Two (2) Brush Trucks: approx. \$85,000.00 each.
 - \$12,500.00 of cost may be funded by Grant from Florida Forestry Service
 - Refurbish Two (2) Tanker Trucks: approx. \$120,000.00 each.
- Total Cost: \$969,122.00