



**SANTA ROSA COUNTY  
ENGINEERING DEPARTMENT**

**ROGER BLAYLOCK, P.E.**  
County Engineer  
rogerb@santarosa.fl.gov

6051 Old Bagdad Highway, Suite 300 | Milton, Florida 32583

**MEMORANDUM**

TO: Tony Gomillion, County Administrator

FROM: Marc Bonifay, P.E., Project Engineer

*MB*

THROUGH: Roger A. Blaylock, P.E., County Engineer

*Rog*

DATE: November 2, 2016

RE: Navarre Causeway Right Turn Lane

DISCUSSION

Discussion of advertising Navarre Causeway Right Turn Lane for award in December.

BACKGROUND

At the Board's request Engineering has designed a southbound right turn lane on Navarre Causeway onto Gulf Boulevard. This project is currently being advertised and will be awarded at the 12/08/16 Board Meeting. This project began with the discussion of incorporating a roundabout at this location. A roundabout impact analysis report was prepared by Volkert for this intersection using traffic counts collected the weekend before the 2013 Memorial Day holiday and during the Memorial Day holiday. The computer analysis showed a roundabout would provide some relief at the intersection but would not reduce congestion northbound along Navarre Causeway or have any effects on the level of service at the US 98 intersection. Also, a standard roundabout will not fit into the existing right-of-way. A right turn lane will relieve congestion at this intersection for the southbound traffic by providing a queue length for the left turn and straight away traffic and a free right for right turns. This turn lane will begin just south of the southernmost cross walk on Navarre Causeway, have a length of 290 feet, and a smooth 75 foot radius transition onto Gulf Boulevard. This project will be funded through Road and Bridge Funds. The engineering estimate for this project is \$54,492. Contract time is 45 days to substantial completion and 60 days to final completion.

ACTION TO BE CONSIDERED

Discuss the advertising of the Navarre Causeway Right Turn Lane for award in December.

**OPINION OF PROBABLE CONSTRUCTION COST**

**Santa Rosa County Engineering**  
6051 Old Bagdad Highway  
Milton Florida  
Phone (850) 981-7100 FAX (850) 983-2161

**Project Name: Navarre Causway Right Turn Lane**

**Project No.:** 2012H-018  
**Date:** 25-Oct-16  
**Page:** 1 of 1

**Project Engineer:** Marc Bonifay  
**Basis:** Construction Plans  
**Estimator:** MB

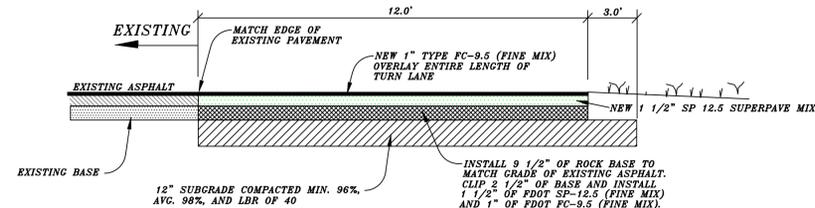
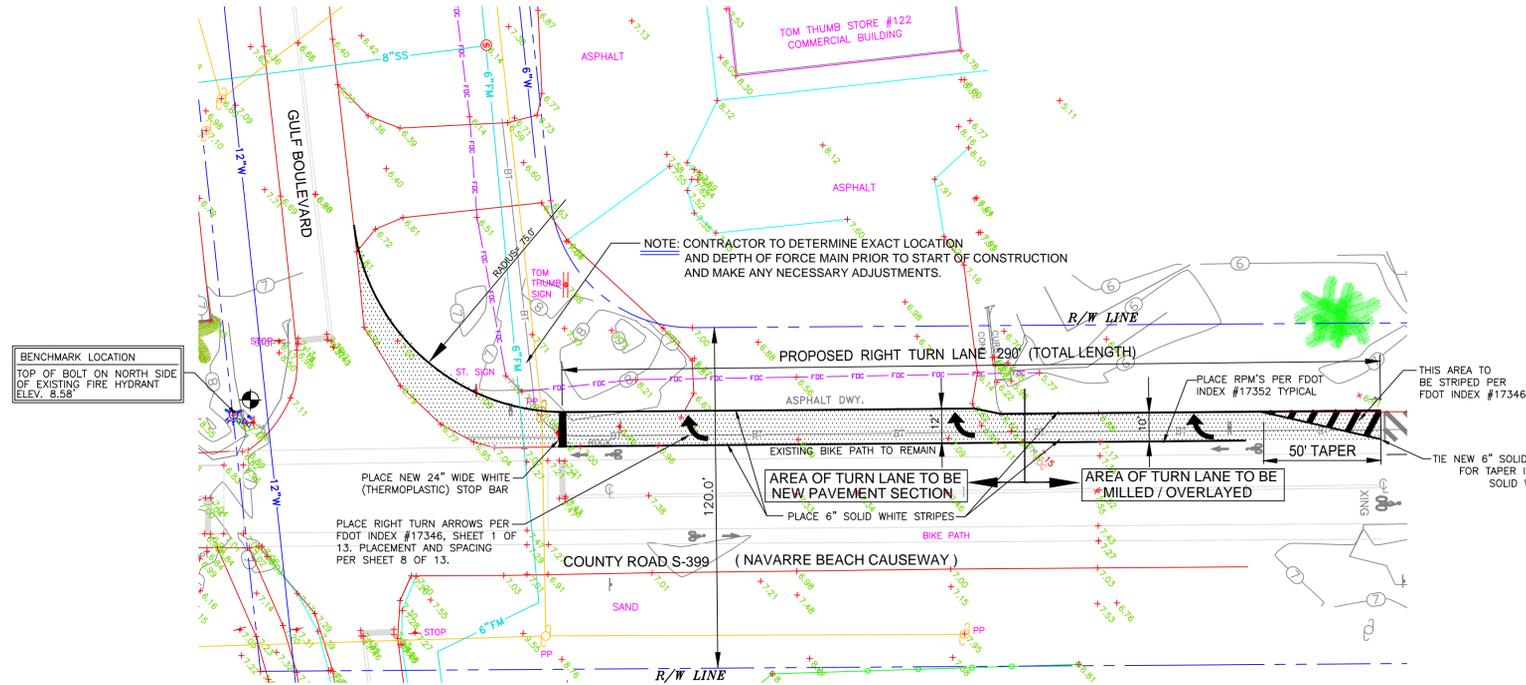
<b>Item No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
1	Mobilization (5%)	1	LS	\$2,600.00	\$2,600.00
2	Maintenance of Traffic (Inc./Signing)	1	LS	\$3,200.00	\$3,200.00
3	1" FC-9.5 Asphalt	510	SY	\$12.00	\$6,120.00
4	1.5" SP-12.5 Asphalt	350	SY	\$15.00	\$5,250.00
5	9.5" Rock Base	350	SY	\$28.00	\$9,800.00
6	12" Stabilized Subgrade	350	SY	\$6.00	\$2,100.00
7	Striping	1	LS	\$3,800.00	\$3,800.00
8	Saw Cut Asphalt	260	LF	\$5.00	\$1,300.00
9	Remove Existing Asphalt	170	SY	\$30.00	\$5,100.00
10	Mill Existing Asphalt	160	SY	\$4.00	\$640.00
11	Erosion Control	1	LS	\$2,500.00	\$2,500.00
12	Utility Relocations	1	LS	\$3,000.00	\$3,000.00
				<b>Sub-Total</b>	<b>\$45,410.00</b>
				<b>20% Contingency</b>	<b>\$9,082.00</b>
				<b>Total</b>	<b>\$54,492.00</b>



# NAVARRE BEACH CAUSEWAY RIGHT TURN LANE



VICINITY MAP  
NOT TO SCALE



STABILIZE ROAD SHOULDER 3 FEET BEYOND EDGE OF PAVEMENT.  
NEW 1" OVERLAY SHALL BE INSTALLED AS FOLLOWS:  
THROUGH LANES SHALL BE INSTALLED IN ONE CONTINUOUS PULL.  
ALL NEW BASE MATERIAL SHALL BE GRADED AGGREGATE.  
FOR IMPROVEMENTS TO ALL COUNTY ROADS, IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL ALL NECESSARY LEVELING COURSES TO PROVIDE A PROPER ROADWAY CROSS-SECTION. CROSS-SECTIONS SHALL HAVE A 2% CROWNED ROADWAY WITH A MINIMUM 4FT. STABILIZED SHOULDER AT 5% SLOPE.

NEW PAVEMENT CROSS SECTION—RIGHT TURN LANE  
NOT TO SCALE

**GENERAL NOTES:**

- ALL SITE WORK MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION RESULTING FROM INCREASED RUNOFF DURING SITEMARK CONSTRUCTION.
- ALL SUITABLE EXCESS MATERIAL EXCAVATED AND NOT USED AS FILL SHALL BE REMOVED FROM SITE. THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER 48 HOURS PRIOR TO CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH THESE SPECIFICATIONS AND APPLICABLE STANDARDS ESTABLISHED BY SANTA ROSA COUNTY. WHERE THESE SPECIFICATIONS AND THE COUNTY STANDARDS DEVIATE, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE UTILITY SUBCONTRACTORS TO INSURE THAT ALL UTILITY INSTALLATIONS PROCEED IN A TIMELY MANNER AND TO PREVENT CONFLICTS WITH THE WATER, SEWER, GAS, ELECTRIC POWER AND TELEPHONE LINES.
- ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE SANTA ROSA COUNTY ENGINEER, THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE LOCAL UTILITY AUTHORITY SHALL BE COMPLIED WITH IN EVERY DETAIL.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY AND IS SHOWN FROM INFORMATION PROVIDED BY EACH UTILITY COMPANY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THERE ARE FIBER OPTIC CABLE INDICATORS IN THE PROXIMITY AND OTHER UNDERGROUND UTILITIES, THEREFORE THE CONTRACTOR SHALL CALL THE SUNSHINE ONE CALL NUMBER @ 811 A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- ANY NECESSARY PERMITS WILL BE PROVIDED BY THE COUNTY.
- THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFFSITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING SITEMARK CONSTRUCTION. PROVIDE SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED OR AS INDICATED ON THE PLANS.
- ALL STRIPING AND PAVEMENT MARKINGS WITHIN PROJECT LIMITS SHALL BE THERMOPLASTIC (AS PER LATEST FDOT SPECIFICATIONS) FOR CENTERLINES, EDGE LINES, AND STOP BARS UNLESS OTHERWISE NOTED. SEE FDOT INDEX 17346. COST OF RAISED PAVEMENT MARKINGS TO BE INCLUDED IN UNIT PRICE FOR STRIPING.
- THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING.
- ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (FDOT SPECS) LATEST EDITION, AND SHALL COMPLY WITH FDOT DESIGN STANDARDS LATEST EDITION.
- CONSTRUCT ALL SIGNS, STREET MARKERS AND PAVEMENT MARKINGS TO BE PLACED AT LOCATIONS SHOWN ON DRAWINGS AND IN ACCORDANCE WITH THE FEDERAL HIGHWAY MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES UNLESS OTHERWISE SPECIFIED.

**GENERAL NOTES CONT.**

- THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS RED LANTERNS AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK PER LATEST FDOT DESIGN STANDARDS.
- ANY MAILBOX WITHIN THE LIMITS OF CONSTRUCTION IS TO BE RELOCATED IN ACCORDANCE WITH POSTAL REQUIREMENTS BY THE CONTRACTOR. COST TO BE INCLUDED IN CLEARING & GRUBBING ITEM.
- ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- ANY NCVD - 29' MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.
- THE ELEVATIONS SHOWN HEREON ARE NGV DATUM.
- ALL TRAFFIC CONTROL SIGNS ARE TO REMAIN & WILL BE PRESERVED BY THE CONTRACTOR AND RE-LOCATED IN ACCORDANCE WITH THE MUTCD. COST TO BE INCLUDED IN CLEARING & GRUBBING ITEM. ALL SIGNAGE AND OR POST IS TO BE PROTECTED AND ANY DAMAGE TO SIGNAGE AND OR POST WILL RESULT IN REPLACEMENT OF NEW SIGNAGE BY CONTRACTOR.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS AS NEEDED DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P., NFWMD, AND ARMY CORPS OF ENGINEERS REQUIREMENTS.
- CLEARING & GRUBBING BID ITEM SHALL ALSO INCLUDE REMOVAL OF ANY DRAINAGE PIPE AS INDICATED, STRUCTURE DEMOLITION, & REMOVAL OF ANY CURBING & ASPHALT.
- ALL LANES MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE ENGINEER OR HIS DESIGNEE.
- SANTA ROSA COUNTY TESTING REQUIREMENTS FOR ROADWAYS ARE AS FOLLOWS:  
CURB/PAD - TEST AT 300 FOOT INTERVALS, ALTERNATING FROM CURB/PAD TO CURB/PAD AND OTHER LOCATIONS AS DIRECTED BY THE S.R. CO. ENGINEERING DEPARTMENT.  
SUBGRADE - TEST AT 300 FOOT INTERVALS, ALTERNATING FROM LEFT SIDE TO CENTERLINE TO RIGHT SIDE WITH ADDITIONAL TEST AT ALL INTERSECTIONS AND CUL-DE-SACS AND OTHER LOCATIONS AS DIRECTED BY THE S.R. CO. ENGINEERING DEPARTMENT.  
BASE - TEST AT 200 FOOT INTERVALS, ALTERNATING FROM LEFT SIDE TO CENTERLINE TO RIGHT SIDE WITH ADDITIONAL TEST AT ALL INTERSECTIONS AND CUL-DE-SACS AND OTHER LOCATIONS AS DIRECTED BY THE S.R. CO. ENGINEERING DEPARTMENT.  
ASPHALT - TEST AT 300 FOOT INTERVALS, ALTERNATING FROM LEFT SIDE TO CENTERLINE TO RIGHT SIDE WITH ADDITIONAL TEST AT ALL INTERSECTIONS AND CUL-DE-SACS AND OTHER LOCATIONS AS DIRECTED BY THE S.R. CO. ENGINEERING DEPARTMENT. ALL TEST ARE TO BE TAKEN IMMEDIATELY BEFORE THE FOLLOWING MATERIAL IS INSTALLED. SANTA ROSA COUNTY HAS THE AUTHORITY TO REQUIRE ADDITIONAL TESTING DUE TO WEATHER CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY SANTA ROSA COUNTY OF THE TIME AND DATE THAT THE TESTING WILL OCCUR AND PROVIDE THEM WITH COPIES OF ALL TESTING RESULTS.
- THE CONTRACTOR WILL SCHEDULE AN ONSITE PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES FROM THE ENGINEERING DEPARTMENT, TESTING LABORATORY, PAVING CONTRACTOR AND ALL OTHER INTERESTED PARTY, PRIOR TO ANY WORK STARTING.

**ABBREVIATIONS**

- EOP -- EDGE OF PAVEMENT
- C/L -- CENTERLINE
- LLW -- LANE LINE WHITE
- LLY -- LANE LINE YELLOW
- SHLDR -- SHOULDER
- MW -- METER WATER
- CS -- GROUND SHOT
- SS -- SPOT SHOT
- ASP. -- ASPHALT
- EOC -- EDGE OF CONCRETE
- B.M. -- BENCHMARK
- EL. -- ELEVATION
- I.R. -- IRON ROD
- C.M. -- CONCRETE MONUMENT
- C.I.R. -- CAPED IRON ROD
- PP -- POWER POLE
- T.E. -- TOP ELEVATION
- I.E. -- INVERT ELEVATION
- P.L. -- PROPERTY LINE
- P.C. -- POINT OF CURVATURE
- P.T. -- POINT OF TANGENCY
- FH -- FIRE HYDRANT
- VW -- VALVE COVER WATER
- VCS -- VALVE COVER SEWER
- RCP -- REINFORCED CONCRETE PIPE
- CMP -- CORRUGATED METAL PIPE
- R/W -- RIGHT-OF-WAY
- SSS -- SIGN, SINGLE SUPPORT
- FOC -- FIBER OPTIC CABLE
- GL -- GAS LINE
- MES -- MITERED END SECTION
- C.L.F. -- CHAINLINK FENCE

**LEGEND**

- ⊙ DENOTES BENCHMARK LOCATION
- ⊠ DENOTES EXISTING WATER METER
- ⊡ DENOTES EXISTING POWER POLE
- ⊢ DENOTES FIBER OPT. MARKER
- ⊣ DENOTES LIFT STATION
- ⊤ DENOTES SEWER VALVE
- ⊥ DENOTES GAS VALVE
- ⊦ DENOTES GAS METER
- ⊧ DENOTES WATER VALVE
- ⊨ DENOTES BACKFLOW DEVICE
- ⊩ DENOTES ELECTRICAL BOX
- ⊪ DENOTES TELEPHONE PAD BOX
- ⊫ DENOTES FIRE HYDRANT
- ⊬ DENOTES STREET OR STOP SIGN
- ⊭ DENOTES STOP SIGN
- ⊮ DENOTES MANHOLE
- ⊯ DENOTES PLACE NEW SOD THIS AREA
- ⊰ DENOTES PROPOSED NEW PAVEMENT OVERLAY
- ⊱ DENOTES GROUND ELEVATION
- ⊲ DENOTES EXISTING FORCE MAIN
- ⊳ DENOTES EXISTING GAS LINE
- ⊴ DENOTES EXISTING WATER LINE
- ⊵ DENOTES EXISTING SANITARY SEWER LINE
- ⊶ DENOTES FIBER OPTIC CABLE
- ⊷ DENOTES RECLAIMED WATER LINE
- ⊸ DENOTES EXISTING TELEPHONE LINE
- ⊹ DENOTES EXISTING MAILBOX
- ⊺ DENOTES CONCRETE UTILITY POLE
- ⊻ DENOTES SURFACE FLOW DIRECTION
- ⊼ DENOTES CABLE TV BOX

**SHEET INDEX:**

SHEET 1	OVERALL SHEET/GENERAL NOTES/VICINITY MAP
SHEET 2	EXISTING CONDITIONS
SHEET 3	FDOT PAVEMENT MARKING DETAILS

CALL 48 HOURS BEFORE YOU DIG  
**It's the Law! 811**  
CALLING 811 IN FLORIDA ROUTES YOU TO SUNSHINE STATE ONE CALL.

NO WORK SHALL BE PERFORMED WITHIN THE RIGHT-OF-WAY UNTIL THE PROPER MAINTENANCE OF TRAFFIC IS IN PLACE ACCORDING TO THE APPROPRIATE 600 SERIES INDEX. THE MOT SET-UP SHALL BE DONE BY A CERTIFIED WORKSITE TRAFFIC SUPERVISOR.

SANTA ROSA COUNTY ENGINEERING  
6051 OLD BAGDAD HIGHWAY  
SUITE 300  
MILTON, FLORIDA 32583  
(850) 981-7100

PROPOSED TURN LANE DETAILS / NOTES  
PROPOSED RIGHT TURN LANE  
ALONG NAVARRE BEACH CAUSEWAY  
Section 28, T.-2-S., R.-26-W. Navarre Beach, Florida

SCALE:  
AS SHOWN

REVISIONS:

DRAWN BY:  
SJM

DATE DRAWN:  
09-28-2016

FIELD DATE:  
09-01-2010

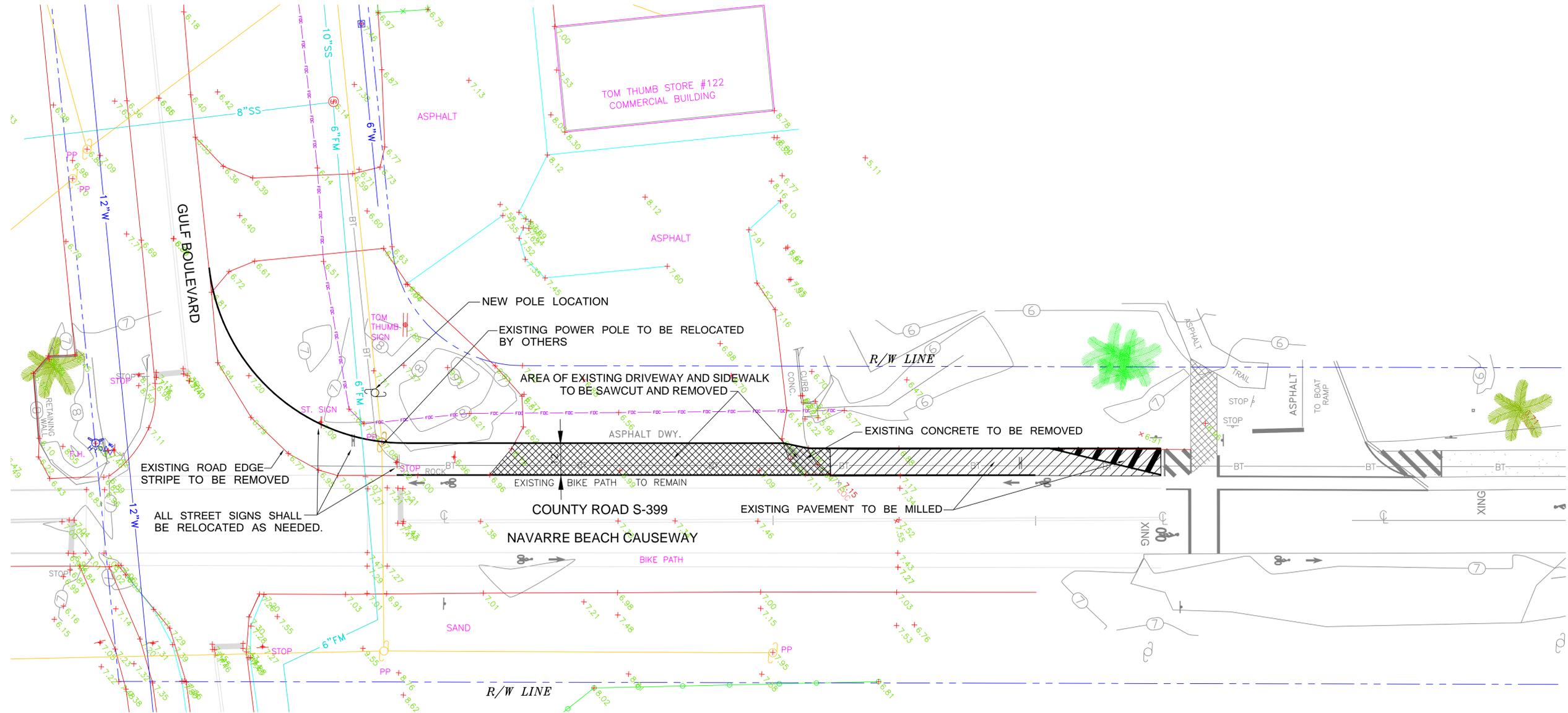
F.B. 98  
PAGE 65-75

PROJECT NO.  
2012H-018

MARC BONIFAY, P.E.  
DATE: \_\_\_\_\_  
REGISTERED ENGINEER  
NUMBER 51304

SHEET  
1 OF 3

# NAVARRE BEACH CAUSEWAY RIGHT TURN LANE



SANTA ROSA COUNTY ENGINEERING  
6051 OLD BAGDAD HIGHWAY  
SUITE 300  
MILTON, FLORIDA 32583  
(850) 981-7100



EXISTING CONDITIONS / DEMOLITION  
**PROPOSED RIGHT TURN LANE  
ALONG NAVARRE BEACH CAUSEWAY**  
Section 28, T.-2-S., R.-26-W. Navarre Beach, Florida

SCALE:  
AS SHOWN

REVISIONS:

DRAWN BY:  
SJM

DATE DRAWN:  
09-28-2016

FIELD DATE:  
09-01-2010

F.B. 98  
PAGE 65-75

PROJECT NO.  
2012H-018

MARC BONIFAY, P.E.  
DATE:  
REGISTERED ENGINEER  
NUMBER 51304

SHEET  
2 OF 3



NO WORK SHALL BE PERFORMED WITHIN THE RIGHT-OF-WAY UNTIL THE PROPER MAINTENANCE OF TRAFFIC IS IN PLACE ACCORDING TO THE APPROPRIATE 600 SERIES INDEX. THE MOT SET-UP SHALL BE DONE BY A CERTIFIED WORKSITE TRAFFIC SUPERVISOR.