SAFETY ISSUES IN ENERGY SECTOR IMPACTED AREAS

What challenges are we facing and What are we doing about them?
INTRODUCTION

http://www.youtube.com/watch?v=Z5MgzuFdxJA
SAFETY ISSUES IMPACTED BY ENERGY SECTOR

I. INCREASED VOLUME OF TRUCK TRAFFIC

II. PAVEMENT DISTRESS/NARROW ROADWAYS

III. INCREASE IN CRASHES
INCREASED VOLUME OF TRUCK TRAFFIC

What improvements did we make?

- NEW SIGNALIZED INTERSECTIONS IN KARNES COUNTY
- IMPROVED HIGHWAY INTERSECTIONS
  - PROPOSED LEFT TURN / RT TURN LANES
  - ACCELERATION / DECELERATION LANES
- PROPOSED PASSING LANES
Energy Sector Signals

- Six Locations
- Three converted from “Stop Signs”
- Three converted from “Flashing Beacons”
- Traffic Volumes Warranted for Traffic Signals
- Estimated Cost: $550k
- Project completed in 2012

Signalized Intersections
IMPROVED HIGHWAY INTERSECTIONS
BEFORE......

US 181 @ FM887, KARNES COUNTY
IMPROVED HIGHWAY INTERSECTIONS
AFTER

US 181 @ FM887, KARNES COUNTY
IMPROVED HIGHWAY INTERSECTIONS
RIGHT TURN LANE

SH72, BEE COUNTY
IMPROVED HIGHWAY INTERSECTIONS
RIGHT TURN LANE

PARTNERING WITH CONOCO PHILLIPS
IMPROVED HIGHWAY INTERSECTIONS
ACCELERATION LANE

PARTNERING WITH CONOCO PHILLIPS
PAVEMENT DISTRESS/NARROW ROADWAYS
WHAT STRATEGIES DID WE APPLY?

- CREATE MORE ROUTINE MAINTENANCE CONTRACTS TO ADDRESS:
  - EDGE DROP OFFS
  - BLOW OUTS & POT HOLES
  - BASE FAILURES

- LET ENERGY SECTOR DESIGN/BUILD CONTRACT ($40.5 million) TO ADDRESS:
  - NARROW ROADWAYS (<24 FT PAVEMENT WIDTH)
  - REHAB
  - PASSING LANES
PAVEMENT DISTRESS
PAVEMENT WIDENING PROJECT, FM 882, KARNES & LIVE OAK COUNTY
PAVEMENT WIDENING PROJECT, FM 882, KARNES & LIVE OAK COUNTY
BEFORE....
PAVEMENT WIDENING PROJECT, FM 882, KARNES & LIVE OAK COUNTY AFTER....
INCREASE IN CRASHES
WHAT SAFETY COUNTER MEASURES DID WE APPLY?

- INTERSECTION IMPROVEMENTS
- PAVEMENT WIDENING
- DESIGN PASSING LANES
- CENTERLINE AND OR SHOULDER RUMBLE STRIPS
- RAISED PROFILE STRIPE
“The Sound Investment”
EDGE LINE RAISED PROFILE STRIPE
CRP District
Milled-In Rumble Strip Plan
(Non-Urban Edgeline and Centerline)

WORK CODE: 532 Texturize shoulder (rolled in or milled in)
542 Centerline Rumble Strip

CRASH TYPE:
Roadway Related: Off Roadway
Shoulder
Median
Vehicle Movement & Manner of Collision:
2 motor vehicles going same direction
Both going straight - sideswipe
2 motor vehicles going opposite direction:
Both going straight

Estimated Cost Per Mile $10,250
Suggested Project Length 45 Mi

Legend
2011-2013 Collision History - Rumble
Severity
- FATAL
- INCAPACITATING INJURY

Legend
Complete (Installed)
Identified (For Consideration)
Targeted (Programmed, but not Installed)

Cities
HSIP 2014 Call Submittals CRP District (Total $200M Proposed)

- **HSIP**: 41% ($81.5M) | 44 submittals
- **Off System**: 9% ($17.4M) | 17 submittals
- **Texturing**: 3% ($6.2M) | 26 submittals
- **Grade Separation**: 26% ($52.1M) | 4 submittals
- **Curves**: 0% ($1.1M) | 10 submittals
- **Widening**: 14% ($28.4M) | 14 submittals
- **Intersections**: 7% ($13.2M) | 22 submittals
- **Texturing**: 3% ($6.2M) | 26 submittals

Total: $200M

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**Footer Text**

HSIP 2014 Call Submittals CRP District (Total $200M Proposed)
EAGLE FORD SHALE
March 3, 2014

WELLS PERMITTED AND COMPLETED

- 5,433 PERMITS
- 5,628 ON SCHEDULE-OIL
- 2,715 ON SCHEDULE-GAS

CAN YOU SEE KARNES COUNTY?

THE CHALLENGE CONTINUES....
QUESTIONS?

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Traffic Operations
Corpus Christi District