ENERGY SECTOR – SAFETY IMPACTS

Ricardo Castañeda, P.E.
Director of Operations
San Antonio District
ENERGY SECTOR

Challenges and Strategies

Photo: Courtesy of NASA’s Goddard Space Flight Center
Challenges and Strategies

- Review various challenges encountered in the Energy Sector Impacted Areas – AKA – Eagle Ford Shale
- Review various strategies implemented to deal with the Energy Sector Issues
  - Pavement Repair strategies
  - Intersections
  - Driveways
  - ROW Impacts
  - Signage
  - Schools
Geographic Area

- Frio, Atascosa, McMullen and Wilson and portions of Bexar, Medina and Guadalupe Counties

Now – Experiencing Roadway Damage
And more Roadway Damage
Miles and Miles of Trucks
Rough Pavement – some rutting
Hot Mix Base Repair
Fresh Seal Coat for Pavement Preservation
Roadway Widening at Narrow Intersection
Edge Drop Off Conditions
Repairing Edge
Edge after Repair
ROW Issues
Encroachments during Construction
Parking and Litter on R.O.W.
Increased Traffic/Safety Concerns – Leaving CRP
Intersection Concerns Due to High loads – Ooops!
New Flashing Beacon Foundation (w/ prop. Turn lane)
Congested Intersection
Damaged Curb and Inlet
Driveways
Driveways

- Typical Drvwy Detail
- Requires typical 4’ widening
- Working on implementing TIA Requirements
- Donation Agreement required for some installations requiring left turn bays
Donated Left Turn Lane
Portable Radar Speed Detector
Truck Hazard Warning
Non-compliant signs
Portable Changeable Message Signs

![Portable Changeable Message Signs Image]
Ped Crossing with Rapid Rectangular Flashing Beacon
School Bus Stop Ahead w/ Flashers – High Speed
Upcoming Projects in Energy Sector Areas

- Projects included in the Design/Build contract ($150 M)
  - SH 16 – From FM 72W to McMullen/Duval County Line
  - FM 791 – From SH 16 to McMullen/Atascosa County Line
  - FM 791 – From McMullen/Atascosa County Line to US 281A
  - FM 791 – From US 281 to Atascosa/Karnes County Line
  - FM 140 – From Charlotte to SH 16

- Design/Build Project just started construction
- Installing additional traffic signals in Atascosa/McMullen County
- Concrete Panels demo-project at SH 97/SH 72 Intersection
- Rehabilitation of SH 97 in McMullen County
- Have identified over $100M in additional needs
What works?

- Communicate-Communicate-Communicate – get w/ Stakeholders early-on; discuss Donation Agreements; Law Enforcement, School Districts and Local Officials – what are their concerns

- Share ideas/equipment/material/Staff – Discuss issues w/ other districts

- Monthly MS meetings, MS peer review

- Get your Maintenance Engineer, Director of Operations, and DE involved – including conducting night-rides
From This.....
To This – “The Road Goes on Forever...”
Continued Work Ahead

Questions?