



# Toll 49 Segment 3B QUARTERLY PROGRESS REPORT No. 3 | January 2012

## GENERAL

The construction of Toll 49, Segment 3B has made positive progress in the last quarter of 2011. Since the last quarterly report in October of 2011, the CDA Design / Build Developer, CH2M Hill, has made good steps forward in the completion of the design and continued construction of the project. Roadway construction elements have moved into the detailed finish grading in section of the southern portion of the project with the northern section continuing to focus on clearing and grubbing, excavation, embankment, permanent drainage, traffic control and erosion control. Structure construction includes drilled shafts, columns, abutments, and bent caps for structures at multiple locations.

In regards to design, the design team continues to progress the design with completion of the Issued for Construction (IFC) Plans for the final segments of the design, and submission of the Interstate Access Justification report. During the quarter, the GEC Team continued to review the final designs from CH2M Hill for the bridge structural designs at Prairie Creek, and Black Fork Creek. In addition, the Segment 3 and 4 roadway design plans were Issued for Construction. The design submittal and review process continued to go smoothly.



*Mud Buggy used for geotechnical drilling at Prairie Creek*

Construction activities conducted by CH2M Hill from October 1, 2011 to January 1, 2012 included:

- Utility relocations taking place at CR 1150, CR1148, FM 724, CR 1128, CR 1151, SH 64, CR46, SH110 and the Oak West Subdivision.
- Excavation and fill operations for the construction of the mainline embankments with a total of approximately 1,250,000 cubic yards of embankment material has been moved to date at the following locations:
  - SH 31 to CD-30 (Neches 1)
  - SH 64 underpass
  - FM 724 bridge abutments
  - Caney Creek Bridge north and south abutments
  - Prairie Creek south abutment
  - SH 31 Interchange ramps
  - SH 64 Interchange ramps
- Continued placement of reinforcing steel and structural concrete for bridge and major drainage elements. Approximately 1,585 cubic yards of structural concrete was placed during this period at the following locations:
  - CD-30 (Neches 1) was brought to substantial completion during this period.
  - CD-09 and CD-11 were brought to substantial completion during this period.
  - CD-02A and CD-01 were started and are in progress.
  - CR 1145 Bridge foundations and substructure (drilled shafts, abutments, columns, pier caps) were brought to substantial completion during this period.
  - SH 64 Bridge foundations and substructure (drilled shafts, abutments, columns) were brought to substantial completion during this period.
  - FM 724 Bridge foundations and substructure (drilled shafts, abutments, columns, pier caps) were started and brought to substantial completion during this period.
  - CR 1150 Bridge foundations and substructure (drilled shafts, abutments, columns, pier caps) were started and brought to substantial completion during this period.
  - Black Fork Creek Bridge foundations (drilled shafts) were started and brought to substantial completion during this period. Other foundation and substructure elements pending.
  - Caney Creek Bridge foundations (drilled shafts) were started during this period and are in progress.
- Precast concrete girders were delivered and erected at the CR 1145, SH 64, FM 724, and CR 1150 Bridges during this period.
- Precast concrete deck panels have been installed at the CR 1145 and SH 64 Bridges. Deck panels have been delivered and installation is in progress at the FM 724 and CR 1150 Bridges.
- Installation and backfill of various precast drainage structures was completed during this period as follows:
  - CD-2B, CD-04, CD-14, CD-15, CD-16, CD-25, and CD-27

- Widening of the west bound shoulder of SH 31 was completed during this period as part of the SH 31 Interchange construction.
- The Smith County Burn Ban was lifted on November 15, 2011.

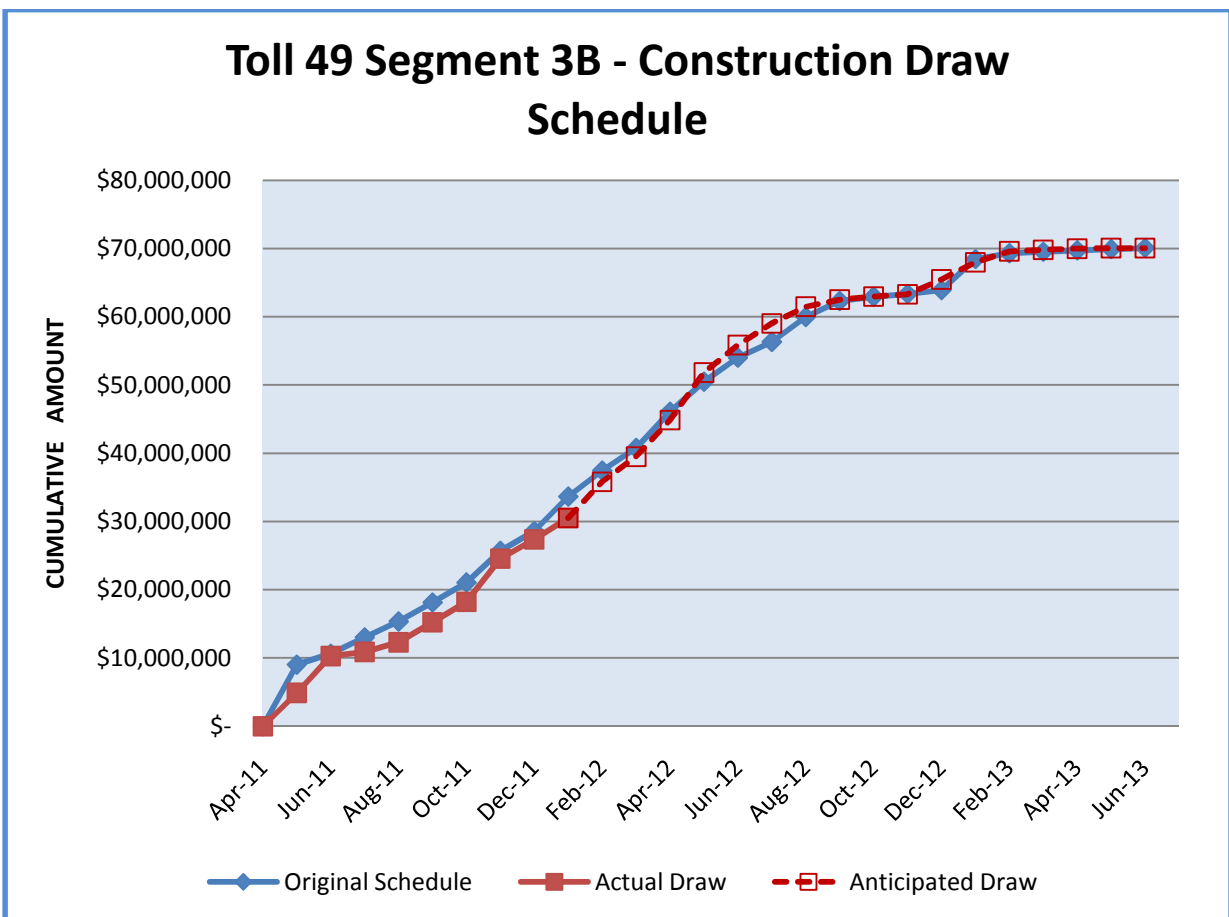
Pictures of recent construction activities are provided in Attachment A.

## PROJECT SCHEDULE & FINANCIAL STATUS

### Construction Progress

In regard to percent complete status, based on current information provided with CH2M Hill's Draw Request #9 for efforts through November 2011, the construction project is 43.56% complete based on actual revenue/expenditures to date as derived from the cost loaded schedule. This figure is derived by simply dividing actual cumulative expenditures to date by the total contract value. This compares to an anticipated completion of 49.99% based on the baseline schedule originally approved for the project. This figure is derived by dividing anticipated cumulative expenditures to date (also based on cost-loaded schedules) by the total contract value.

The graph below tracks and compares the anticipated cumulative expenditures against the actual cumulative expenditures related to the construction of the project.



As of November 28, 2011, CH2M Hill has completed 43.56% of the work while using 36.23% of the time to Substantial Completion. The monthly update schedule indicates that the project is on schedule.

## Financial Status

CH2M Hill submitted their Draw Request # 9 on December 05, 2012 which included expenditures through November 28, 2011. This request was under review at the time of this report. Once review has been completed, the final documents will be forwarded to the Trustee, Amegy Bank, for processing and issuance of payment.

The following summary provides the financial status of the project. A detailed status chart is presented on the following page.

Original CH2M Hill Contract Amount:	\$ <u>70,068,399</u>
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<b>Current Authorized Contract Amount:</b>	<b>\$ 70,068,399</b>
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### Total of CH2M Hill Payments:

Previously paid through Septmeber, 2011	\$ 18,217,088
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Payment for October, 2011	\$ 6,353,714
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Payment for November, 2011	\$ 2,788,878
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Payment for December, 2011	\$ 3,160,484
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<b>Total Amount Paid To-Date:</b>	<b>\$ 30,520,164</b>
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<b>Approved Amount for work completed (through CH Draw #9):</b>	<b>\$ 30,520,164</b>
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<b>Amount remaining for work to be completed:</b>	<b>\$ 39,548,235</b>
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<b>Total Project Budget Expended through November 2011:</b>	<b>\$ 39,122,823</b>
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## Summary of Change Orders This Reporting Period

There was one Change Order issued on August 18, 2011. Change Order No.1 to the Comprehensive Development Agreement (CDA) with CH2M Hill is regarding ROW fencing for Toll 49 Segment 3B. This change order was approved at the NET RMA Board of Directors meeting that took place on August 17, 2011 as Resolution 11-19, in the amount of \$100,000.

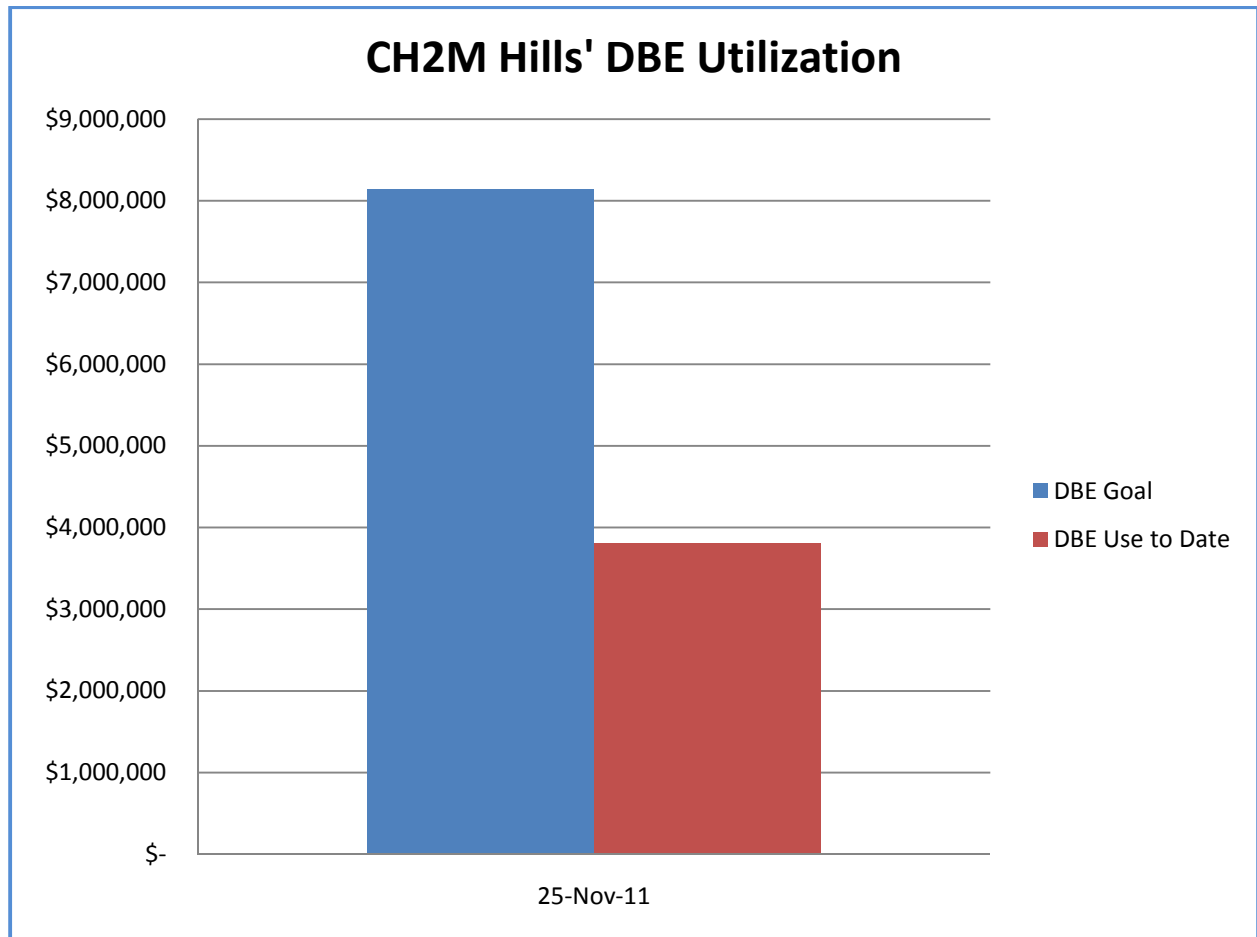
# DETAIL OF TOLL 49 SEG 3B PROJECT COSTS

NORTH EAST TEXAS REGIONAL MOBILITY AUTHORITY				
NET RMA Proposed Project Costs		NET RMA DRAW #10		
Item	BUDGET	SPENT TO-DATE	% SPENT	REMAINING
<b>Comprehensive Development Agreement</b>				
<b>Development Management and Design</b>				
Development Management	\$5,000,000	\$2,171,085	43.42%	\$2,828,915
Development Design	\$6,000,000	\$4,905,738	81.76%	\$1,094,262
Community Outreach	\$40,000	\$10,000	25.00%	\$30,000
Utility Coordination, Management, & Agreements	\$225,000	\$181,731	80.77%	\$43,269
<b>Subtotal Development Management and Design</b>	<b>\$11,265,000</b>	<b>\$7,268,554</b>	<b>64.52%</b>	<b>\$3,996,446</b>
<b>Construction</b>				
Mobilization	\$7,006,400	\$7,006,400	100.00%	\$0
Earthwork	\$11,250,000	\$7,224,484	64.22%	\$4,025,516
Utilities	\$1,500,000	\$1,448,000	96.53%	\$52,000
Pavement, Subbase and Base Course	\$13,870,600	\$195,507	1.41%	\$13,675,093
Structures	\$13,321,000	\$1,644,972	12.35%	\$11,676,028
Drainage	\$4,750,000	\$3,445,033	72.53%	\$1,304,967
Lighting, Signing, Striping, and Signals	\$1,200,000	\$0	0.00%	\$1,200,000
Toll Facilities	\$300,000	\$0	0.00%	\$300,000
Environmental Monitoring and Mitigation	\$450,000	\$128,922	28.65%	\$321,078
Quality Management and Testing	\$900,000	\$431,611	47.96%	\$468,389
Traffic Control	\$750,000	\$244,946		
Maintenance	\$100,000	\$35,757	35.76%	\$64,243
Incidental Construction (Barriers, Sidewalks, Landscaping, etc)	\$1,900,000	\$0	0.00%	\$1,900,000
<b>Subtotal Construction</b>	<b>\$57,298,000</b>	<b>\$21,805,632</b>	<b>38.06%</b>	<b>\$35,492,368</b>
<b>Bonds, Warranties and Insurance Premiums</b>				
Bonds	\$844,724	\$844,724	100.00%	\$0
Warranties	\$59,421	\$0		
Insurance Premiums	\$601,254	\$601,254	100.00%	\$0
<b>Subtotal Bonds, Warranties and Insurance Premiums</b>	<b>\$1,505,399</b>	<b>\$1,445,978</b>	<b>96.05%</b>	<b>\$59,421</b>
<b>Total Development Price</b>	<b>\$70,068,399</b>	<b>\$30,520,164</b>	<b>43.56%</b>	<b>\$39,548,235</b>
<b>NET RMA Costs</b>				
Construction Change Orders/Contingency	\$2,000,000	\$1,888,874	94.44%	\$111,126
Environmental Studies	\$1,500,000	\$0	0.00%	\$1,500,000
Right-of-Way	\$4,947,857	\$2,670,925	53.98%	\$2,276,932
Design Oversight & QA	\$1,650,000	\$961,107	58.25%	\$688,893
Construction Oversight & QA	\$3,850,000	\$1,051,710	27.32%	\$2,798,290
Toll Integration	\$1,802,189	\$15,160	0.84%	\$1,787,029
Materials Testing Lab	\$574,610	\$107,130	18.64%	\$467,480
TxDOT Offsite/Plant Inspection	\$110,200	\$0	0.00%	\$110,200
Environmental Mitigation (Permit Monitoring, Permit Addendums, SW3P)	\$35,000	\$36,501	104.29%	-\$1,501
Environmental Archeology & Dig Testing	\$180,000	\$324,562	180.31%	-\$144,562
Other Project Expenses (stipend, public outreach, etc.)	\$471,000	\$184,799	39.24%	\$286,201
NET RMA Admin Costs	\$1,408,345	\$726,890	51.61%	\$681,455
Finance Costs	\$635,000	\$635,000	100.00%	\$0
<b>Subtotal NET RMA Costs</b>	<b>\$19,164,201</b>	<b>\$8,602,659</b>	<b>44.89%</b>	<b>\$10,561,542</b>
<b>Total Project Costs</b>	<b>\$89,232,600</b>	<b>\$39,122,823</b>	<b>43.84%</b>	<b>\$50,109,777</b>

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## DBE STATUS

CH2M Hill is required and committed to meet the Disadvantaged Business Enterprise (DBE) goal of for the project. **As of November 28, 2011, CH2M Hill has submitted costs associated with DBE construction work in the amount of \$ 3,810,126.20, which equals approximately 46.80% of the total planned DBE expenditures.**



## PUBLIC INVOLVEMENT

As progress continues on the Segment 3B project, ongoing public outreach and response activities continue to take place through various methods. The following lists public outreach activities that occurred during the reporting period:

✓ Website:

The web site for the Toll 49 Segment 3B Construction is operational.

✓ Press Releases:

Press releases were sent out on October 10th regarding the temporary closure of CR 1148, October 21<sup>st</sup> regarding the temporary closure of CR 46, then on October 31<sup>st</sup> a notice of traffic disruption was sent out informing the traveling public of construction at SH 64 and Toll 49 and on November 9<sup>th</sup> a notice was sent out announcing a lane closure for the SH 64 detour. All project public notices have been posted on the NET RMA website ([www.netrma.org](http://www.netrma.org)) in an effort to help keep the public informed on traffic disruption and construction activities.

✓ Letters:

Letters were sent out to all affected agencies and stakeholders of Toll 49 Segment 3B informing them of the temporary closure of CR 1148 on October 10<sup>th</sup>.

✓ Visits:

One-on-one visits with adjacent property owners and stakeholders were made as needed.

## UPCOMING CONSTRUCTION ACTIVITIES

The following construction activities are anticipated during the next report period:

- Continued clearing and grubbing between SH 110 and the IH 20 corridor.
- Continued excavation and embankment work.
- Placement of flexible base and HMAC paving for mainline segments south of SH 64.
- Completing construction of large culverts and associated drainage structures.
- Continued construction for bridges underway
- Initial construction tasks for additional bridge locations.

# **ATTACHMENT A**

Toll 49 Segment 3B  
Construction Activity Pictures  
October 2011 thru December 2011





*Mud Buggy used for geotechnical drilling at Prairie Creek*



*Construction of SH 64 bridge bent cap.*



*Pre-stressed Concrete Beam placement at CR 1145.*



*Installation of bridge slab overhang forms for CR 1145 bridge.*





*Placement of Pre-stressed Concrete Beams for SH 64 bridge.*



*Scraper operations preparing rough cut finished subgrade.*





*Placement of Pre-stressed Concrete Deck Panels on CR 1145 bridge.*



*Installation of Pre-stressed Concrete Beams on SH 64.*



*Drilled shaft operations at Caney Creek.*



*Construction of concrete riprap on east abutment of FM 724.*





December 8, 2011

*Drainage structure CD-11 just north of SH 64 (former pond location).*



December 13, 2011

*Finish grading operations looking south from CR 1145 Bridge.*



*Finish grading operations looking north from CR 1145 Bridge.*



*Pre-stressed Concrete Beams waiting placement at FM 724 bridge.*