TOLL 49 SEGMENT 4 QUARTERLY REPORT



3RD QUARTER 2018 QUARTERLY REPORT NO. 7







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Construction Contractor



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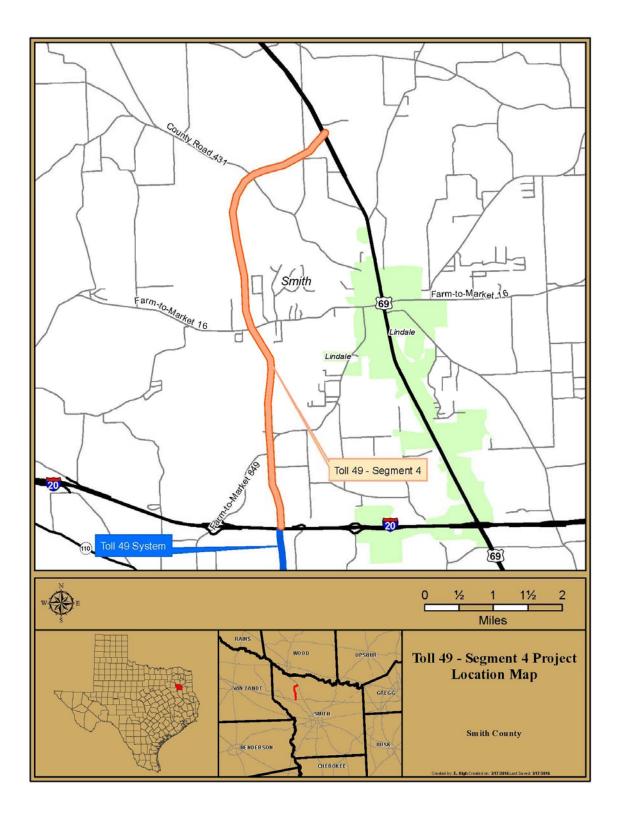
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1.1 INTRODUCTION

This report documents and describes development and construction activities on the Toll 49 Segment 4 Project that occurred primarily during the 3rd quarter of fiscal year 2018 and covers a period extending from April 1, 2018 to July 1, 2018. This Project is being developed and constructed by the North East Texas Regional Mobility Authority ("the Authority"). The Segment 4 Project is funded by Series 2016A Senior Lien bonds, and funds committed by the Federal Highway Administration (FHWA) and the Texas Department of Transportation (TxDOT).

1.2 PROJECT DESCRIPTION

The Segment 4 Project extends along new alignment from US 69 in the City of Lindale south to IH 20, north of the City of Tyler in Smith County, Texas. The Segment 4 Project connects with Toll 49 Segment 3B, extending Toll 49 by a length of approximately 6.6 miles. The Segment 4 Project consists of an interim two-lane access controlled tollway with grade separations at major cross streets, and toll collection facilities. The interim two-lane facility may be expanded to its ultimate four-lane configuration as traffic demand warrants and funding sources are identified in the future. The Segment 4 Project includes the construction of an at grade intersection at US 69, a diamond interchange including access ramps at FM 16, access ramps south of SH 110, and a three level interchange at IH 20. Continuous access/frontage roads will not be constructed as part of the Segment 4 Project.



1.3 DEVELOPMENT ACTIVITIES

1.3.1 Right-of-Way Acquisition

To date, the Authority has acquired all forty-two project parcels.

TABLE 1: RIGHT-OF-WAY PARCEL STATUS

Parcel	Acreage	Estimated Acquisition Date	Status
202	3.93	NTP	Closed
203	1.44	Acquired	Closed
204	0.73	NTP + 75 Days	Closed
205	0.52	NTP	Closed
206	2.42	NTP	Closed
207	0.40	NTP	Closed
208	7.03	NTP + 75 Days	Closed
209	12.47	15-Jul-16	Closed
210	0.84	15-Jul-16	Closed
213	39.13	NTP	Closed
214	9.95	NTP	Closed
215	36.64	NTP	Closed
216	28.31	NTP	Closed
217	8.39	NTP	Closed
218	5.61	NTP	Closed
219	21.01	NTP	Closed
220	1.35	NTP	Closed
221	5.69	NTP + 30 Days	Closed
222	2.46	NTP + 30 Days	Closed
223	0.13	NTP + 30 Days	Closed
224	0.17	NTP + 30 Days	Closed
225	0.04	NTP + 30 Days	Closed
226	11.63	NTP + 30 Days	Closed
227	3.18	NTP + 60 Days	Closed
229	22.23	NTP + 60 Days	Closed
230	3.22	NTP + 60 Days	Closed
231	4.25	NTP + 60 Days	Closed
232	14.47	NTP + 60 Days	Closed
233	1.52	NTP + 60 Days	Closed
235	0.85	NTP + 60 Days	Closed
236	9.71	NTP + 60 Days	Closed
237	0.41	NTP + 60 Days	Closed
238	22.66	NTP + 60 Days	Closed
239	1.04	NTP + 60 Days	Closed

Parcel	Acreage	Estimated Acquisition Date	Status
240	13.39	NTP + 60 Days	Closed
241	0.36	NTP + 60 Days	Closed
242	11.04	NTP + 60 Days	Closed
243	9.16	NTP + 60 Days	Closed
244	19.14	NTP	Closed
245	5.81	NTP	Closed
246	0.10	NTP + 30 Days	Closed
247	0.07	NTP + 60 Days	Closed

1.3.2 Utilities

The adjustment of all privately-owned utilities impacted by the Segment 4 Project is complete. Relocation design and construction was performed by the utility owners with 100% reimbursement from the Authority. Due to coordination and construction timeframes, the relocations for some utilities were not completed within the contract's estimated completion dates. These relocations did not impact the Project critical path.

TABLE 2: UTILITY RELOCATION STATUS

	Estimated Relocation	
Utility Company	Completion Date	Status
AT&T (SBC)	NTP+120	Relocation is complete
CenterPoint Energy	NTP+120	Relocation is complete
City of Lindale	N/A	Relocation is complete
Crystal Systems Water	N/A	Relocation is complete
East Texas Electric		
Cooperative	1-Jan-17	Relocation is complete
		No conflict identified, no
Enbridge	No conflict	relocation
Gulf South	NTP+90	Relocation is complete
Lindale Rural WSC	N/A	Relocation is complete
	Relocation will begin 2 weeks	
MHM Pipeline	after clearing	Relocation is complete
Oncor Electric Delivery		
(Distribution)	NTP + 90 to 120 Days	Relocation is complete
Oncor Electric Delivery		
(Transmission)	1-Nov-16	Relocation is complete
Peoples Telephone		
Cooperative	NTP + 0 to 60 Days	Relocation is complete
SuddenLink	NTP + 150 Days	Relocation is complete
Wood County Electric	NTP +110 Days	Relocation is complete
Zayo	NTP +150 Days	Relocation is complete

1.3.3 Archeological Survey

During archeological survey undertaken in support of a utility relocation on the project in July of 2016, archeologists encountered a previously unrecorded archeological site, resulting in limited Contractor access to the right-of-way during an archeological investigation. Final clearance of the site was received on December 1, 2017, at which time the Contractor was granted full access to resume construction activities at this location.

Three Change Orders have been executed to address delays associated with the archeological investigation. Change Orders No. 12 and 13 extended the project schedule by six months and increased the construction contract amount by approximately \$1.6 million for time related overhead expenses and earthwork demobilization and remobilization costs. Change Order No. 14 increased the not-to-exceed amount of the construction contract by \$2.7 million, with \$1.4 million representing a lump sum settlement payment to be paid to the Contractor if the February 6, 2019 Substantial Completion date is met. Should Substantial Completion occur after February 6, 2019, this \$1.4 million lump sum will decrease by \$15,000 per calendar day. The remaining \$1.3 million represents a not-to-exceed amount intended to cover costs associated with the increased erosion control activities required to maintain the project during the extended construction schedule. The erosion control costs in Change Order No. 14 do not account for costs associated with removal of sediment from outside the project ROW or additional seeding needed to establish ground cover.

1.4 PROGRESS PHOTOS

1.4.1 Earthwork

Most of the project earthwork is now completed. Minor activities, such as grading for ditches and level up at pavement edges, is ongoing. The Contractor continues embankment south of IH 20 for the northbound exit ramp to IH 20. Demolition of the existing FM 849 roadway and excavation for the main lane underpass at FM 849 was completed during the reporting period.



Embankment for the northbound ramp south of IH 20



Excavation for the Toll 49 mainlanes at FM 849

1.4.2 Drainage Structures

The Contractor has completed construction of all major cross culverts and storm sewer. Ongoing drainage work includes construction of concrete rip rap for ditches, rock rip rap at outfalls, and general ditch grading. Rip rap construction for the ditches between FM 849 and IH 20, between Stevenson Branch and FM 16, and at Davis Branch and Culvert No. 10 was completed during the reporting period, and the Contractor continues rip rap construction for the ditches at CR 431, south of CR 431 at Culvert No. 7, and at Davis Branch. In addition, the Contractor is installing underdrains as needed in areas where drainable pavement is specified.



Construction of underdrains between CR 4118 and CR 431

Concrete rip rap construction for ditches south of Stevenson Branch



Rock rip rap installation at Davis Branch Tributary Bridge

Concrete rip rap construction at Davis Branch Tributary outfall

1.4.3 Bridge & Wall Structures

All bridge substructure and superstructure construction is complete. Outstanding bridge work includes the grinding and grooving of deck surfaces and aesthetic painting. The construction of rip rap at bridge abutments throughout the project is nearly complete, with minor ongoing concrete work at the Davis Branch Tributary Bridge. The Contractor began painting structures, starting with the concrete bridge rail during this reporting period.



Completed concrete rip rap construction at Long Brake Tributary bridge

Completed concrete rip rap construction at CR 431 bridge



Concrete bridge rail painting at Northbound Ramp Bridge at IH 20

Concrete bridge rail painting at Long Break Bridge

1.4.4 Erosion Control

The Contractor continues environmental control activities such as maintaining silt fence, soil retention blankets, and rock filter dams as needed throughout the project to prevent erosion. Erosion control devices damaged during weather events during the reporting period were repaired and replaced. The Contractor is installing permanent seeding on backslopes and supplementing with sod in certain areas to more efficiently establish ground cover.





Sod installation on side slopes north of Davis Branch

Fertilized, seeded and hay mulched side slopes between CR 431 and Stevenson Branch bridges



Grass growing on side slopes south of IH 20

Top soil, seed compost, hay mulch installation

north of FM 16

1.4.5 Subbase & Pavement

The Contractor completed cement treatment of subgrade at all locations with the exception of the northbound ramp south of IH 20, where embankment work continues. The placement of flexible base, application of prime coat, and the construction of the first four inches of asphalt for the Toll 49 main lanes from CR 4118 to FM 16 was completed during the reporting period. In addition, the one course surface treatment, followed by the asphalt riding surface, was placed between US 69 to the Stevenson Branch Bridge and FM 16 to north of FM 849.



Flexible base installation for the SH 110 southbound ramp

Prime coat between Stevenson Branch and FM 16



One Course Surface Treatment placed from US 69 to Stevenson Branch bridge



Construction of pavement north of FM 16



Asphalt placement North of FM 16



Asphalt pavement south of IH 20

1.4.6 Gantry Structures

During the reporting period, the Contractor began installation of gantry structures, progressing work at the two ramp locations south of FM 16.





Columns and cantilever truss on southbound ramp at FM 16

Columns and cantilever trusses on northbound ramp at FM 16

1.5 PROGRESS NARRATIVE

The Contractor continued maintaining erosion control items including silt fence, rock filter dams, erosion control blankets, and placing temporary seed as needed to prevent erosion. Clearing and grubbing activities are complete. Excavation at the FM 849 underpass was completed during this period. The final major earthwork task is the embankment south of IH 20 for the northbound exit ramp for which work is currently ongoing.

The substructure and superstructure construction of all bridges on the project is complete. The only remaining bridge items are grinding and grooving the deck surfaces and painting. Rip rap construction for bridge abutments is complete at all bridge abutment locations with the exception of minor concrete work required at Davis Branch. All retaining wall construction is complete on the project. Construction of project culverts and storm sewer is complete. Ongoing drainage work includes grading and rip rap construction of the ditches throughout the project.

Subgrade cement treatment is complete at all locations except for the northbound exit ramp south of IH 20. Flexible base, prime coat, the first four inches of main lane asphalt pavement, and the first two inches of ramp asphalt pavement have been placed project-wide with the exception of the main lanes at FM 849 and the northbound exit ramp to IH 20. The one course surface treatment has been placed from US 69 to the Stevenson Branch Bridge.

During the reporting period, the Contractor began installation of the gantry structures, progressing work at the two ramp locations south of FM 16. The Contractor also progressed lighting activities by continuing construction of luminaire foundations and completing the wiring work required for the roadway lighting.

Table 3 below reflects construction progress based on the Contractor's schedule of values and approved construction draws.

Construction Activity	Percent Complete		
Mobilization	100.00%		
Traffic Control	96.98%		
Earthwork	99.44%		
Drainage	87.31%		
Sub-base and Base Course	95.41%		
Pavement	47.07%		
Structures	100.00%		
Pavement Markings and Signals	40.61%		
Environmental	85.52%		
Extra Work Items	60.06%		
Change Orders	64.74%		
-			

TABLE 3: CONSTRUCTION PROGRESS

1.6 FINANCIAL SUMMARY

Table 4 shows the overall financial status for the Toll 49 Segment 4 project through June 30, 2018. The original budget established for the Project and the expenditures to date are provided. An estimated cost remaining and an estimate at completion are also provided.

TABLE 4: FINANCIAL STATUS SUMMARY

Project	Original Cost	Expenditures to	Estimated	Estimate at
Description	Estimate (\$)	Date (\$)	Remaining Cost (\$)	Completion (\$)
Toll 49 Segment 4	\$126,220,000	\$94,708,842.54	\$31,511,157.46	\$126,220,000

Note: These costs include Traffic & Revenue studies costs, ROW survey and mapping costs, Final Engineering costs, Utility Relocation costs, Oversight costs, Construction (including GEC costs), and approximately \$12.8 million in remaining contingencies.

1.6.1 Project Cash Flow Curve – Baseline

Figure 2 summarizes the actual project costs to date during this reporting period in comparison to the projected project costs.

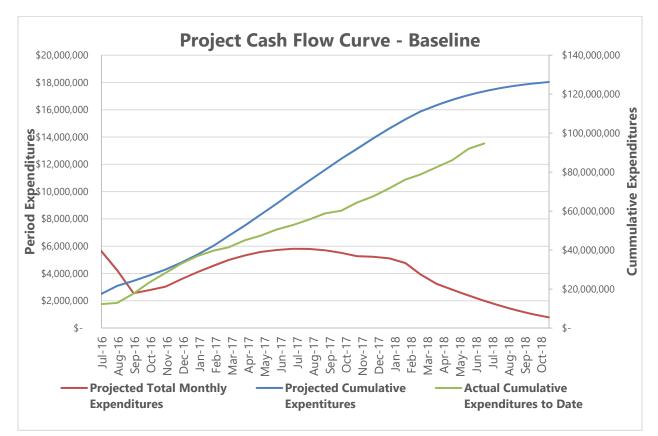


FIGURE 2: PROJECT CASH FLOW CURVE - BASELINE

Note: "Projected Cumulative Expenditures" includes both projected project expenditures and project contingencies.

1.7 CONSTRUCTION FINANCIAL STATUS

The following summary provides the financial status of the Project.	
Original Contractor Amount:	\$68,760,000.00
Authorized Changes (Change Order and/or Amendments):	
Change Order No. 1 ¹	\$0.00
Change Order No. 2	\$26,247.38
Change Order No. 3	\$17,257.93
Change Order No. 4	\$156,926.00
Change Order No. 5	\$100,000.00
Change Order No. 6	\$34,276.66
Change Order No. 7	\$3,721.82
Change Order No. 8	\$4,231.40
Change Order No. 9	\$304,851.40
Change Order No. 10	\$200,000.00

Change Order No. 11 ²	\$4,389,160.65
Change Order No. 12 ³	\$1,078,075.83
Change Order No. 13	\$493,609.77
Change Order No. 14	\$2,660,075.00
Change Order No. 15	\$24,838.18
Change Order No. 16	\$28,495.58
Change Order No. 17	\$50,000.00
Change Order No. 18	\$11,860.97
Change Order No. 19	\$100,000.00
Change Order No. 20	\$67,382.19
Change Order No. 21	\$31,352.18
Change Order No. 23 ⁴	\$71,420.24
Change Order No. 24	\$36,708.84
Change Order No. 25	\$496,675.32
Change Order No. 26	\$34,821.29
Current Authorized Contract Amount:	\$79,181,988.63
Previous total of Contractor Payments:	\$65,576,860.76
Amount Paid this Reporting Period:	\$2,654,715.22
Total Amount Paid To-Date:	\$68,231,576.47
Retainage withheld:	\$0.00
Approved Amount for work completed (through Draw No. 23):	\$68,231,576.47
Amount remaining for work to be completed:	\$10,950,412.16
Total Percent of Budget Expended though June 30, 2018:	86.17%

Footnotes:

- 1. Change Order No. 1 did not result in a change in price
- 2. Change Order No. 11 included a 56 day time extension
- 3. Change Order No. 12 included a 179 day time extension
- 4. Change Order No. 22 was skipped because the NET RMA Board voted not to execute Change Order No. 22.

1.7.1 Summary of Change Orders This Reporting Period

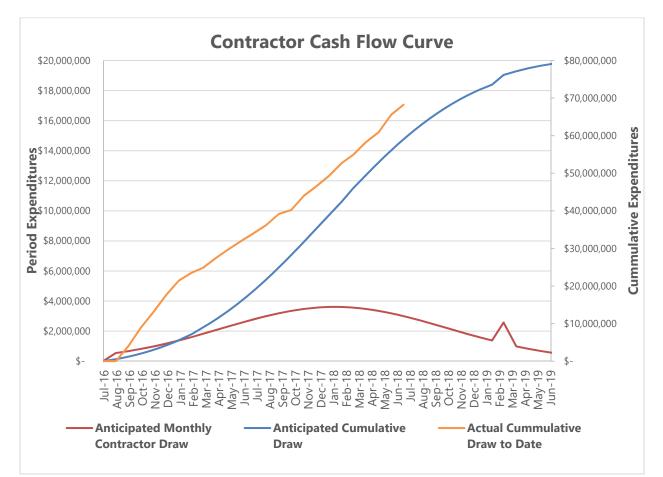
During the reporting period, the NET RMA executed Change Orders No. 21, 23, 24, 25, and 26. Change Order No. 21 included \$31,352.18 for guardrail extensions in multiple locations, storm sewer location adjustments to avoid utility conflicts, and temporary pumping of stormwater due to the delay of utility relocations at FM 849. The NET RMA Board voted not to execute Change Order No. 22, which proposed the replacement of asphalt with concrete pavement at all three gantry locations.

Change Order No. 23 was necessary due to a stream's natural realignment toward a bridge footing and includes \$71,420.24 to realign the stream per USACE requirements. Change Order No. 24 includes \$36,708.84 for various driveway improvements, a location adjustment of the SH 110 ramp to avoid encountered utility conflicts, and reimbursement of a water pump near FM 849 to remove water as a result of a naturally occurring spring.

Change Order No. 25 includes \$496,675.32 for additional erosion control measures and rip rap. Change Order No. 26 includes \$34,821.29 for the adjustment of metal beam guard fence, aesthetic painting of concrete surfaces, and additional water pumping near FM 849.

1.7.2 Contractor Cash Flow Curve

Figure 3 summarizes the actual Contractor draws to date during this reporting period in comparison to the projected Contractor draws.





Note: Contractor Cash Flow Curve includes both price and schedule revisions associated with approved Change Orders.

1.8 DBE STATUS

The Contractor is required to meet the Disadvantage Business Enterprise (DBE) goal of 6% for the Segment 4 Project. The Contractor has proposed costs associated with DBE development work in the amount of \$4,125,600.00 which equals 6.00% of the original contract value. This represents approved subcontracts with the following firms: Rambo Contracting INC (culverts, inlets, headwalls, and wing walls), Texas Environmental Management (stormwater pollution prevent plans and erosion control), MCL Contracting

(rebar tying), Buyers Barricade (advanced warning signs), and South Texas Painting (painting), Odum Services LP (metal beam guard fence and guard rail) and A Brothers Milling (milling).

To date, the Contractor has made payments in the amount of \$4,305,095.40 to DBE subcontractors, 6.26% of the original contract amount or 104.35% of their commitment amount.



FIGURE 4: DBE STATUS

1.9 COMPREHENSIVE ENVIRONMENTAL PROTECTION PROGRAM

In accordance with the terms of the Environmental Record of Decision (ROD) and contract requirements, the Contractor was required to develop and implement a Comprehensive Environmental Protection Program (CEPP) applicable throughout the duration of construction to establish the approach, requirements and procedures to be employed to protect the environment. The Contractor's CEPP includes the following component parts:

- Areas of Special Environmental Interest Describes steps taken to prevent impacts to at risk, rare species and their habitat as well as historical resources including:
 - Educating employees to recognize these impacts
 - Identifying the areas where construction related activities are not to take place based on the relevant migratory bird timing windows
 - Keeping water work to a minimum and cleaning any equipment which must enter the water both prior and after to mitigate the spread of Zebra Mussels
 - If endangered/rare species or historical/archaeological/paleontological resources are encountered, ceasing working in the area and notifying the engineer or applicable agency for direction on any mitigation action required

- » Environmental Protection Measures include the following:
 - o Erosion and sediment control measures
 - o Preparation for seasonal shutdown
 - o Protection of wildlife and wildlife habitat
 - Proper practices for clearing vegetation
 - Appropriate handling and storage of soil
 - o Protection of wetlands, watercourses (streams), and riparian areas
 - Air quality management
 - o Proper handling and storage of petroleum, oil, lubricant, and other chemicals
 - o Management of waste
 - o Constructing, operating, and reclaiming borrow excavations
 - o Operating concrete batch plants
 - o Well impacts and requirements
 - Recycling program
- » Monitoring and Inspection efforts consist of:
 - o Self-Regulatory inspection program
 - Construction Monitoring
 - Post construction monitoring
- » Energy Conservation measures including the following:
 - Reusing and recycling of construction materials
 - Maximizing the use of local materials to reduce hauling
 - o Carpooling of workers to and from the jobsite
 - Regular maintenance of equipment to ensure proper working order
 - o Reducing energy consumption by turning off equipment and vehicles when not in use
 - Minimizing stops and delays by efficient routing of trucks to and from the jobsite and utilizing off-peak travel times to maximize fuel efficiency
 - Minimizing the need for artificial light by scheduling construction during daytime hours to the extent practicable
 - o Maintenance of traffic control plan that minimizes lengthy detours or delays for motorists.
- » The Environmental Protection Training Plan educates non-administrative employees to:
 - Recognize the overall importance of environmental issues
 - o Recognize environmental impacts as they relate to construction
 - o Know what actions to take to minimize impacts
- The Communication Plan provides contact information for the Environmental Manager, Superintendent, Project Engineer and Project Manager

Per the CEPP, the Contractor has conducted the following activities:

Submitted for and posted TCEQ Notice of Intent (NOI) for stormwater discharges. The NOI and large construction site notices are posted on the Contractor's Equal Employment Opportunity board in front of the field office to address accessibility concerns.

- Implemented proper vegetation clearing practices including installing sediment and erosion control measures prior to beginning the clearing and grubbing work.
- Minimized disturbance to aquatic resources during clearing and grubbing by installing silt fence between the construction site and watercourse to prevent sedimentation and equipment from encroaching on protected areas and installing temporary crossings to allow construction equipment to cross various tributary streams.
- Focused on addressing several erosion control items identified in a March 2017 letter from TCEQ by installing additional rock filter dams, erosion control blankets, mulch, topsoil, and temporary seeding on back and side slopes as construction progressed and performing silt excavation downstream of areas where erosion control measures were previously inadequate.
- Continued the maintenance and repair of erosion control measures throughout the jobsite to ensure continued TCEQ compliance and is focused on repairing and replacing measures due to the rains experienced in mid-December of 2017.
- » Reduced the amount of runoff at soil stockpile locations by reducing the grade of the stockpile side slopes.
- » Performed weekly inspections to ensure the measures are operating correctly.
- Implemented the Environmental Protection Training Plan by providing staff access to the TxDOT Environmental Management System training website.
- » Avoided impacts to streams during construction until mitigation was secured.

APPENDIX A:

AERIAL PHOTOGRAPHS (APRIL 2018 TO JULY 2018)



April 2018



July 2018 FIGURE 5: PROJECT AREA SOUTH OF IH 20



July 2018 FIGURE 6: PROJECT AREA AT IH 20



April 2018



July 2018 FIGURE 7: PROJECT AREA BETWEEN IH 20 AND FM 849



April 2018



July 2018 FIGURE 8: PROJECT AREA AT EXISTING FM 849



April 2018



July 2018
FIGURE 9: PROJECT AREA DAVIS BRANCH TRIBUTARY



April 2018



July 2018 FIGURE 10: PROJECT AREA DAVIS BRANCH



April 2018



July 2018
FIGURE 11: PROJECT AREA BETWEEN DAVIS BRANCH AND FM 16



April 2018



July 2018 FIGURE 12: PROJECT AREA AT FM 16



April 2018



July 2018 FIGURE 13: QUARRIES NORTH OF FM 16



April 2018



July 2018 FIGURE 14: PROJECT AREA NORTH OF THE FM 16 QUARRIES



April 2018



July 2018 FIGURE 15: PROJECT AREA BETWEEN FM 16 AND CR 341



April 2018



July 2018
FIGURE 16: PROJECT AREA SOUTH OF CR 431



April 2018



July 2018 FIGURE 17: PROJECT AREA AT CR 431



April 2018



July 2018 FIGURE 18: PROJECT AREA NORTH OF CR 431



April 2018



July 2018 FIGURE 19: PROJECT AREA AT CR 4118



April 2018



July 2018 FIGURE 20: PROJECT AREA AT US 69