



SOUTH CANAL IMPROVEMENTS – PHASE 2

SJRA PROJECT NO. HDPM0003.1117.2N005 COMPETITIVE SEALED PROPOSAL NO. 21-0046 CONTRACT NO. 21-0046



CLIENT: SAN JACINTO RIVER AUTHORITY

REFERENCE ELLIS

MAIN CONTRACTOR: R&T ELLIS EXCAVATING, INC



HSE CONTRACTORS INC. CPM SCHEDULING CONSULTANTS

February Update Narrative Report

Notice to Proceed Substantial Completion Final Completion March 14th, 2022 August 4th, 2023 September 3rd, 2023





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1. Purpose of this Document

The purpose of this document is to illustrate and define HSE's Project Execution Strategy and

Planning Approach demonstrated in the Baseline schedule complying with the Specs and

Drawings.

1.1 Project Description and Scope of Work

The Work is located on the Highlands Reservoir, Highlands EOC, SJRA South Canal Bypass, and SJRA South Canal in east Harris County, TX.

- R&T Ellis Excavating, Inc is responsible for:
 - the replacement of two siphons, levee improvements, installation of an access culvert in the SJRA South Canal Bypass, and installation of an all-weather access roadway on the Highlands Reservoir Dam.
 - The following figures show the project location layout:



Figure 1: Project Location





2. Project Phasing

The Main Schedule includes works for South Canal Improvements Phase 2 including the Procurement section which is divided into Subcontract Award, Prepare & Submit, Review & Approve, and Fabricate & Deliver. This section includes shop drawings and the delivery of the main material required for Construction.

The construction section includes Site Preparations in Mobilization, Site survey Layout, installation SWPPP, and Hydro mulching and seeding. Access Culvert installation with the SW corner, Reservoir Road installation from station 00 to station 94+50, Siphon 25 installation in demolition works, Intake structure, discharge structure, and E. Wallisville Rd. underground piping, Canal levee improvements, and Siphon 26 installation in demolition works, Intake structure, discharge structure, and N. Battlebell Rd. underground piping.

2.2. Key Dates and Milestones

Activity Name	Baseline	February Update	Variance (days)
NTP	14-Mar-22	14-Mar-22	0
Substantial Completion	06-Sep-23	4-Aug-23	33
Final Completion	05-Oct-23	3-Sep-23	32

2.3. Procurement

The procurement phase of the project starts with the preparation of submittals along with their review and approval and the delivery of the main material needed for the project. The submittals in the project start by:

- Submittals and Approvals of TCEQ permit, County Permit, Safety Plan, Trench safety program,
 Traffic Control plan, Utility relocation plan, Care of water plan for Access culvert, Siphon 25, and
 Siphon 26.
- Submittals and Approvals of Geotextile Catalog Sheets, Reinforced steel shop drawings, sieve analysis of aggregates, Articulated Concrete Blocks, and Hydro mulching certifications.
- Submittals and Approvals of long lead items of RC Box Culvert, and Centrifugally Cast Fiberglass
 Pipes.





2.4. Construction

The Construction works starts by Construction Site survey and Layout on Jun, 9th, 2022 followed by Mobilization, Construction SWPPP, and silt fences and Topographic Survey/layout. The construction is then broken down into 5 Areas:

- Access Culvert Area: Access Culvert area is broken down to include the installation of care water diversion channel that starts on, excavation of the area, then placing precast box culvert and installation of cement stabilized sand. PVC conduits is then installed followed by the construction of the culvert slabs, and wing walls associated by the stop logs, staff gauge, and handrails, and final clean up in backfilling and placing concrete riprap.
- Reservoir road: construction starts by removing vegetation from station 00 to station 94+50, installing fill material, installing Articulated Concrete Blocks, then backfilling and Hydro mulching.
- Siphon 25: Starts by Install Care of Water diversion channel, and demolition of existing concrete and driveways, then excavation, laying 2-60" CCFRPM Pipes, and the construction of the Intake structure associated with the stop logs, staff gauge, and handrails, and final clean up in backfilling and placing Recycled Crushed Concrete Base and concrete riprap, the same process for the discharge structure, and eventually the E. Wallisville Rd. underground piping.
- **Canal Levee improvements:** construction starts by removing Debris, and vegetation from station 290+00 to station 244+00, then compacting fill areas, and grading the canal.
- Siphon 26: Starts by Install Care of Water diversion channel on, and demolition of existing concrete and driveways, then excavation, laying 2-60" CCFRPM Pipes, and the construction of the Intake structure associated by the stop logs, staff gauge, and handrails, and final clean up in backfilling and placing Recycled Crushed Concrete Base and concrete riprap, the same process for the discharge structure, and eventually the N. Battlebell Rd. underground piping.





3. WBS

The below figure is extracted from the baseline schedule of the project on Microsoft Project and shows all WBS levels. The Key dates & Milestones section includes all important milestones and dates for the project. The Procurement section includes Submittal and preparation activities along with their reviews and approvals, their Fabrication and Delivery along with The Long Lead Items. Then the Construction Phase is divided into 6 Sections: General works that include all site works, restoration of disturbed areas, hydro mulching, Access Culvert Area, Reservoir Road, and Canal levee improvements along the stations that include grading canal, and installation of Articulated concrete blocks. Then Siphons 25 and 26 include demolition, construction of Intake and Discharge structures, and underground piping.

The following figures show the WBS Structure:





WBS 👻	Task Name 👻
SCIP-2	South Canal Improvements Program Phase 2
1.1	Key Dates & Milestones
1.2	▲ Procurement
1.2.1	Prepare & Submit
1.2.2	Review & Approve
1.2.3	Fabricate & Delivery
1.2.4	Long Lead Items
1.3	Construction
1.3.1	General
1.3.3	Access Culvert
1.3.6	▲ Reservoir Road
1.3.6.1	STA 00 To STA 14+00
1.3.6.2	Alternate Road
1.3.6.3	STA 14+00 To STA 34+00
1.3.6.4	STA 34+00 To STA 48+00
1.3.6.5	STA 48+00 To STA 84+00
1.3.6.6	STA 84+00 To STA 94+50
1.3.2	Siphon 25 - Station 279+00 to 274+50
1.3.2.1	Demolition
1.3.2.2	Intake Structure
1.3.2.3	Discharge Structure
1.3.2.4	E. Wallisville Rd. Underground
1.3.5	Canal Levee Improvements
1.3.5.1	STA 290+00 To STA 279+00
1.3.5.2	STA 274+50 To STA 259+50
1.3.5.3	STA 259+50 To STA 252+50
1.3.5.4	STA 248+00 To STA 244+00
1.3.4	Siphon 26 - Station 252+50 to 238+00
1.3.4.1	Demolition
1.3.4.2	Intake Structure
1.3.4.3	Discharge Structure
1.3.4.4	N. Battlebell Rd. Underground
1.4	▷ Close-Out





5. Calendars

This section contains details on the calendars which are assigned on all activities. The calendar usage and assignment demonstrate that the builder has taken into account all official holidays and weekends, and has scheduled the project activities efficiently to minimize any risk on project completion. The Calendars used in this project are:

- <u>A 7 Day Workweek Calendar</u>: the calendar is based on 7-day week and is assigned on milestones, procurement activities, and closeout activities.
- <u>A 5 Day Workweek Calendar</u>: the calendar is based on 5-day week and recognizes weekends and federal holidays and is assigned to construction activities.

2022 Federal Holidays:

Date

Monday, May 30 Monday, July 4 Monday, September 5 Friday, November 11 Thursday, November 24 Friday, November 25 Monday, December 23 Tuesday, December 26

Holiday

Memorial Day Independence Day Labor Day Veterans Day Thanksgiving Day Friday after Thanksgiving Christmas Eve Christmas Day

2023 Federal Holidays:

Date

Monday, January 2 Monday, January 16 Monday, February 20 Monday, May 29 Monday, July 4 Monday, September 4 Friday, November 10 Thursday, November 23 Friday, November 24 Monday, December 25 Tuesday, December 26 Holiday

New Year's Day Birthday of Martin Luther King, Jr. President's Day Memorial Day Independence Day Labor Day Veterans Day Thanksgiving Day Friday after Thanksgiving Christmas Eve Christmas Day





Since the Working Conditions of this project will be outdoors and the project will be executed almost in summer where Rain will cause Block outs in some months so according to NOAA National Weather Service Report, 24 calendar days are adjusted to suit these weather conditions.

6. Working Hours

The working hours are 8 hours per day from Monday till Friday, totaling 40 hours per week. These work durations have been used throughout all scheduled construction activities to calculate durations and the remaining time to complete.

7. Critical Path

The Critical Path in this update is driven by the Installation of Care of water diversion channel of Siphon 26 then the removal of the RCPs. After demolition is completed, the Excavation of Siphon 26 starts followed by the lower slab, walls, and upper slab installation, and then finishes starts with placing the geotextile, Riprap Installation, Backfilling, and Recycled crushed concrete installation. Hereafter, the underground works in N. Battlebell road take place to finally reach the removal of the care water diversion channel of siphon 26. Hereafter, installing driveway culverts, and PVC conduits.

Substantial completion is then on August 4th, 2023, and the TCEQ Notice of Termination to start the punch list, testing and commissioning, demobilization, and the close-out requirements to have the final completion on September 3rd, 2023.

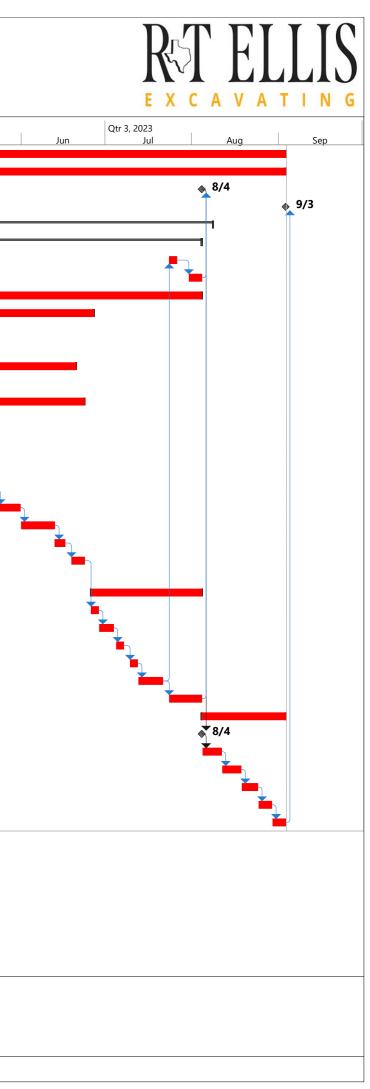
The figure below shows the critical path of the project



South Canal Improvements Program Phase 2 - February Update Critical Path Schedule

D	Task Name	Duration	Remaining	Start	Finish	% Complete			Qtr 2, 2023	
1	South Canal Improvements Program Phase 2	528 days	Duration 184.66 days	March 14, 202	2 September 3, 2	066%	Feb	Mar	Apr	May
2	Key Dates & Milestones	538 days 538 days	538 days		2 September 3, 2		-			
4	Substantial Completion	0 days	0 days		3 August 4, 2023					
5	Final Completion	0 days	0 days	-	2 September 3, 20					
69	Construction	261 days	130.18 days	-	August 8, 2023					
70	General	259 days	89.86 days		August 4, 2023					
77	Removal of Silt Fences & Temporary erosion control	3 days	3 days	July 24, 2023	-	0%				
78	Restore all disturbed Areas	5 days	5 days 5 days	-	August 4, 2023					
155	Siphon 26 - Station 252+50 to 238+00	100 days	100 days	-	August 4, 2023		_			
159	Demolition	74 days	74 days		June 26, 2023					
160	Install Care of Water diversion channel - Siphon 26	7 days	7 days		March 10, 2023					
162	Remove 2-42" RCPs - Siphon 26	4 days	4 days		3March 22, 2023		_			
167	Intake Structure	55 days	55 days		SJune 20, 2023					
168	Excavation - Intake Structure - Siphon 26	5 days	5 days		3March 30, 2023					
182	Discharge Structure	53 days	53 days			0%		_		
183	Excavation - Discharge Structure - Siphon 26	5 days	5 days	March 31, 202		0%				
184	Install Cement Stabilized Sand - Discharge Structure - Siphon 26	4 days	4 days		April 13, 2023	0%				
185	FRP Lower Slab - Discharge Structure - Siphon 26	8 days	8 days		April 26, 2023	0%				
186	FRP Walls & Waterstop - Discharge Structure - Siphon 26	9 days	9 days	April 27, 2023		0%				
187	FRP Upper Slab - Discharge Structure - Siphon 26	8 days	8 days	-	May 22, 2023	0%			_	
194	Place Geotextile Layer - Discharge Structure - Siphon 26	5 days	5 days		May 31, 2023	0%				
195	Install 24" Concrete Riprap - Discharge Structure - Siphon 26	, 5 days	, 5 days	-	June 12, 2023	0%				
192	Backfill with Top Soil - Discharge Structure - Siphon 26	4 days	4 days		June 16, 2023	0%				
196	Install Recycled Crushed Concrete Base - Discharge Structure - Siphon 26	-	5 days		June 23, 2023	0%				
197	N. Battlebell Rd. Underground	27 days	27 days	June 26, 2023	August 4, 2023	0%				
198	Install Traffic Rated Ground Box - N. Battlebell Rd Siphon 26	3 days	3 days	June 26, 2023	June 28, 2023	0%				
199	Install driveway Culverts - N. Battlebell Rd Siphon 26	3 days	3 days	June 29, 2023	July 3, 2023	0%				
200	Install 5 PVC Conduits - N. Battlebell Rd Siphon 26	3 days	3 days	July 5, 2023	July 7, 2023	0%				
201	Backfill with Conduits - N. Battlebell Rd Siphon 26	3 days	3 days	July 10, 2023	July 12, 2023	0%				
202	Remove Care of Water diversion channel - Siphon 26	7 days	7 days	July 13, 2023	July 21, 2023	0%				
203	Repair N. Battlebell rd Siphon 26	8 days	8 days	July 24, 2023	August 4, 2023	0%				
263	Close-Out	18 days	18 days	August 4, 2023	3 September 3, 2	00%				
264	TCEQ Notice of Termination	0 days	0 days	August 4, 2023	3 August 4, 2023	0%				
265	Punch List	7 days	7 days	August 5, 2023	3 August 11, 2023	3 0%				
266	Testing & Commissioning	7 days	7 days	August 12, 202	2:August 18, 2023	3 0%				
267	As-Built drawings	6 days	6 days	August 19, 202	2:August 24, 2023	3 0%				
268	Close-Out requirements	5 days	5 days	August 25, 202	2:August 29, 2023	3 0%				
269	Demobilization	5 days	5 days	August 30, 202	2:September 3, 20	0%				

	Task		Project Summary	II	Manual Task	Start-only	E	Deadline	÷
Project: South Canal Improvem	Split		Inactive Task		Duration-only	Finish-only	Э	Progress	
Date: March 9, 2023	Milestone	•	Inactive Milestone	\$	Manual Summary Rollup	External Tasks		Manual Progress	
	Summary	· · · · · · ·	Inactive Summary	0	Manual Summary	External Milestone	\diamond	critical	
						Page 1			







8. Progress made in this update

This Update reflects that R&T Ellis Excavating Inc has progressed in the schedule with the fabrication and delivery of Articulated Concrete blocks. For Siphon 25, the swing gates and handrails started and are halfway through completion in both the Intake and discharge structures. The underground works of the E.Wallisville road are completed. For the Canal levee improvements, there is progress regarding STA 290+00 to STA 279+00, and is completed. For the Reservoir Road, STA 48+00 to STA 84+00 is almost completed.

The project becomes ahead by 5 days from January's update besides it is still ahead by 23 days from the Baseline Schedule.

9. Work to be performed in the Next Month

For work to be performed in March starting with the procurement of the Recycled Crushed Concrete, Top Soil, and Hydro Mulch. Then the Backfilling with Hydro-mulch for Access Culvert.

Regarding Siphon 25, the installation of Recycled Crushed Concrete in the Intake and Discharge Structure. Then for the Canal Levee Improvements, compact fill areas and place 24" concrete riprap for STA 259+50 to STA 252+50, and STA 248+00 to 244+00.

For the Reservoir Road, STA 48+00 To STA 84+00, STA 34+00 To STA 48+00, and STA 14+00 To STA 34+00 Installing Fill Material and Placing the Geotextile layer should have progressed. For Alternate Road STA 00 To STA 14+00, also Installing Fill Material and Placing the Geotextile layer should have progressed.

For Siphon 26, Excavation is to start for both the Intake and Discharge structures, and the demolition of the existing utilities. Also, the 1st Road Closure of Battlebell Road takes place in the next month.

The figures below show the completed work, Work in progress from NTP to the Data Date of February 28th, 2023, and Work scheduled to progress in the next month.



Task Name	Duration	Start	Finish	% Complete
South Canal Improvements Program Phase 2	538 days	March 14, 2	022September	3, 2066%
Key Dates & Milestones	538 days	-	022September	
NTP	0 days	March 14, 20	022March 14, 2	022 100%
Procurement	221 days	•	2 March 30, 2	
Prepare & Submit	163 days	-	2 December 2	
Submit Safety Plan Submit Geotextile Catalog Sheets	9 days	-	April 14, 202	
Submit Geotextile Catalog Sheets Submit Articulated Concrete Blocks Shop drawings	2 days 63 days		2 April 12, 202 2 June 12, 202	
Submit Centrifugally Cast Fiberglass Test Reports	14 days		2 April 25, 202	
Submit RC Box Culvert Shop drawings	62 days		2 June 12, 202	
Submit County Permit	2 days	May 4, 2022	May 5, 2022	100%
Submit TCEQ Permit	1 day	May 5, 2022	May 5, 2022	100%
Submit Schedule of Values	15 days		May 19, 202	
Submit Traffic Control Plan	2 days		2 May 19, 202	
Submit RC Low head Culvert, Storm drain, and Sewer Pipe Shop drawings	1 day	May 22, 202	2 May 22, 202	2 100%
Submit Cement Stabilized Sand Shop drawings	5 days	May 22 202	2 May 31, 202	2 100%
Submit Certent Stabilized Said Shop drawings Submit Care of Water Plan for the Access Culvert Area	34 days		July 5, 2022	
Submit Care of Water Plan for siphon 25	6 days		June 7, 2022	
Submit Care of Water Plan for Siphon 26	6 days		June 7, 2022	
Submit CPM Schedule	18 days	June 3, 2022	June 20, 202	100%
Submit Trench Safety Program	7 days		2 June 19, 202	
Submit Reinforced Steel Shop drawings & Certifications	13 days		2 June 29, 202	
Submit Utility Relocation Plan	9 days		2 July 1, 2022	
Submit sieve analysis of aggregates	3 days	-	July 8, 2022	
Submit Recycled Crushed Concrete Base Samples Submit Handrails Shop drawings	3 days		July 8, 2022	
Submit Handrails Shop drawings Submit HMAC Shop drawings	3.5 days 3 days	-	2 September 2 202October 12,	
Submit Top Soil Shop drawings	2 days		0, 2December 12,	
Submit Hydro Mulching Certification	3 days		9, 2December 1 9, 2December 2	
Review & Approve	166 days		2 December 3	
Approve Safety Plan	8 days	-	April 14, 202	
Approve Geotextile Catalog Sheets	35 days	April 12, 202	2 May 16, 202	2 100%
Approve Articulated Concrete Blocks Shop drawings	62 days	-	2 June 12, 202	
Approve Centrifugally Cast Fiberglass Pipe Test Reports	13 days		2 April 25, 202	
Approve RC Box Culvert Shop drawings	61 days		2 June 12, 202	
Approve TCEQ Permit	1 day		May 5, 2022	
Approve County Permit Approve Schedule of Values	1 day		May 5, 2022	
Approve Schedule of Values Approve Traffic Control Plan	14 days 1 day		May 19, 202 2 May 19, 202	
Approve RC Low head Culvert, Storm drain, and Sewer Pipe Shop drawings	1 day		2 May 19, 202 2 May 23, 202	
	2 00 y			
Approve Cement Stabilized Sand Shop drawings	4 days	May 24, 202	2 May 31, 202	2 100%
Approve Care of Water Plan for the Access Culvert Area	33 days		July 5, 2022	
Approve Care of Water Plan for siphon 25 Approve Care of Water Plan for Siphon 26	5 days		June 7, 2022	
	5 days		June 7, 2022	
Approve CPM Schedule	17 days		June 20, 202	
Approve Trench Safety Program	36 days		2 July 19, 202	
Approve Reinforced Steel Shop drawings & Certifications Approve Utility Relocation Plan	12 days		2 June 29, 202	
	0 days		2 July 1, 2022	
Approve sieve analysis of aggregates Approve Recycled Crushed Concrete Base Samples	0 days 0 days	-	July 8, 2022 July 8, 2022	
Approve Recycled Crushed Concrete Base samples	7 days		2 September 2	
Approve HMAC Shop drawings	0 days	-	20:October 12,	
Approve Top soil Shop drawings	2 days		, 20 December 5	
Approve Hydro Mulching Certification	10 days		0, 2December 3	
Long Lead Items	154 days		22 September	
Centrifugally Cast Fiberglass Pipe Delivery		April 26, 202	2 September 2	26, 2 100%
RC Box Culvert Delivery	44 days		2 July 25, 202	
Construction General	261 days		August 8, 20	
General	259 days	June 9, 2022	August 4, 20	023 65%



South Canal Improvements Program Phase 2 - February Update Completed Work

ר י	ask Name	Duration	Start	Finish	% Complete	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	
72	Mobilization	6 days	June 20, 2022	June 30, 2022	100%	Mar Apr May	Jun Jul Aug	Sep Oct N	Nov Dec
4	Install SWPPP & Silt Fences		-		100%				
79	Migratory Bird Watch -2022	· ·		-	100%				
73	Install Stabilized Construction Access	,		January 18, 2023					
131	Access Culvert			2 March 3, 2023					
149	SW Corner			2 March 2, 2023					_
150	Clear & Grub Trees and Brush - Access Culvert				100%		N		
151	Excavation - Access Culvert	-			100%				
153			-	-					
132	Install 12" CMP Culvert - Access Culvert		-	3, September 15, 2					
	Install Care of Water diversion channel - Access Culvert				100%				
134	Ground/Surface Water Control - Access Culvert			September 15, 2				*	
133	Grade Canal - Access Culvert			September 19, 2				······	
135	Excavation - Access Culvert			1 .	100%		1 - me		
36	Install Cement Stabilized Sand - Access Culvert				100%		7/26		
37	Place Precast Box Culvert - Access Culvert	0 days	July 26, 2022	July 26, 2022	100%		7/26		
138	FRP Access Culvert Slabs - Access Culvert	2 days	July 26, 2022	July 29, 2022	100%				
39	FRP Downstream Wingwall - Access Culvert	3 days	August 1, 2027	2 August 3, 2022	100%				
41	FRP Upstream Wingwall - Access Culvert	3 days	August 1, 2027	2 August 3, 2022	100%				
146	Place Geotextile Layer - Access Culvert	24 days	August 5, 2022	2 September 12, 2	100%				
147	Install 24" Concrete Riprap - Access Culvert	2.25 days	August 5, 2027	2 September 12, 2	100%				
140	Install downstream Stop Log & Staff Guage - Access Culvert		-	2.September 12, 2			.		
142	Install Upstream Stop Log & Staff Guage - Access Culvert	1 day	-	2.September 12, 2					
148	Remove Care of Water diversion channel - Access Culvert		-	5, September 21, 2				9/21	
43	Install Movable Handrails - Access Culvert	1 day	-	0. October 27, 202					
144	Install 2 PVC Conduits - Access Culvert	2 days		, 2December 29, 20					
82	Siphon 25 - Station 279+00 to 274+50)2 April 7, 2023					_
83	E.Wallisville 1st Road Closure - Siphon 25			2:August 29, 2022					
86	Demolition		-	4, January 27, 2022				-	
88			-	-					
	Install Care of Water diversion channel - Siphon 25			1, September 23, 2					
87	Care of Water system demonstration - Siphon 25			3, September 29, 2					
89	Ground/Surface Water Control - Siphon 25			3, January 27, 2023				···	
91	Repair/Relocate Existing Utilities - Siphon 25			2:October 3, 2022				10/3	
93	Remove Intake & Discharge Structures - Siphon 25	1 day	October 5, 202	22October 5, 2022	100%				
90	Remove 2-42" & 48" RCPs - Siphon 25	1 day	October 6, 202	2:October 7, 2022	100%				
92	Remove Existing Driveways - Siphon 25	5 days	October 10, 20	0. October 14, 202	100%				
94	Remove Existing Swing Gates and Supports - Siphon 25	2 days	October 11, 20	02October 12, 202	100%				
95	Intake Structure	117 days	September 26	6, April 7, 2023	73%				+
96	Excavation - Intake Structure Siphon 25	0 days	September 26	5, September 28, 2	100%			9/28	
97	Install Cement Stabilized Sand - Intake Structure Siphon 25	0 days	September 28	3, September 29, 2	100%			9/29	
99	FRP Lower Slab - Intake Structure Siphon 25	0 days	September 29	, October 3, 2022	100%			10/3	
98	Lay 2-60" CCFRPM Pipes - Intake Structure Siphon 25	1 day	October 4, 202	2:October 4, 2022	100%			10/3	
100	FRP Walls & Waterstop - Intake Structure Siphon 25	3 days		2:October 10, 202					
01	FRP Upper Slab - Intake Structure Siphon 25	7 days	October 25, 20	0. November 2, 20.	100%				
106	Install Cement Stabilized Sand Encasement - Intake Structure Siphon 25	0 days		, December 16,					
		0 00,0	2022	2022					
105	Backfill with Top Soil - Intake Structure Siphon 25	0 days		23January 12, 2023	100%				
107	Place Geotextile Layer - Intake Structure Siphon 25	1 day	-	02January 14, 2023					
108	Install 24" Concrete Riprap - Intake Structure Siphon 25	0 days		02January 17, 2023					
104	Install Staff Guages - Intake Structure Siphon 25	5 days	-	02January 27, 2023					
104	Install Stop Logs - Intake Structure Siphon 25	0 days	-	02January 20, 2023					
84	E.Wallisville 2nd Road Closure - Siphon 25		-	22. October 17, 202					
	•	10 days							
124	E. Wallisville Rd. Underground	86 days		0. March 7, 2023				♦ 10/12	
127	Install 5 PVC Conduits - E. Wallisiville Rd. Siphon 25	0 days		0. October 12, 202				♦ 10/12	
129	Remove Care of Water diversion channel - Siphon 25	0 days	-	02February 14, 202					
125	Install Traffic Rated Ground Box - E. Wallisiville Rd. Siphon 25	2 days	-	20February 15, 202					
30	Repair E.Wallisville Rd Siphon 25	4 days	February 15, 2	20February 22, 202	100%				
28	Backfill with Topsoil - E. Wallisiville Rd. Siphon 25	1 day	February 16, 2	20 February 16, 202	100%				
10	Discharge Structure	103 days	October 18, 20	0. April 7, 2023	85%				
111	Excavation - Discharge Structure Siphon 25	1 day	October 18, 20	0. October 18, 202	100%			Ť	
112	Install Cement Stabilized Sand - Discharge Structure Siphon 25	0 days	October 18, 20	0. October 18, 202	100%			💉 10/18	
113	FRP Lower Slab - Discharge Structure Siphon 25	10 days		0. November 4, 202					
roiect	: South Canal Improvem	Inacti	ive Milestone	\diamond	Duration-only	Start-only		External Milestone	
	Arch 9, 2023 Split Project Summary	Inacti	ive Summary	0 0	Manual Summary R	Rollup Finish-only	y 🛛	Deadline 🕹	
	Milestone Inactive Task		ual Task		Manual Summary	External Ta		Progress	





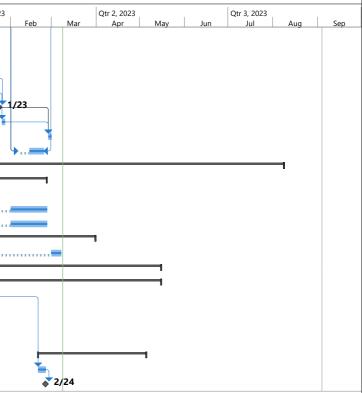


South Canal Improvements Program Phase 2 - February Update Completed Work

D	Task Name	Duration	Start	Finish	% Complete	Mar	Qtr 2, 2	/ Jun	Qtr 3, 2022	Aug	Qtr 4, 2 Sep Oc		Nov Dec	Qtr 1, 2023
114	FRP Walls & Waterstop - Discharge Structure Siphon 25	7 days	November 11,	2November 23,	2(100%									
115	FRP Upper Slab - Discharge Structure Siphon 25	4 days	December 19,	2December 28,	20100%								L 1	
120	Install Cement Stabilized Sand Encasement - Discharge Structure Siphon 25	2 days	January 6, 202	3January 9, 202	3 100%									*
121	Place Geotextile Layer - Discharge Structure Siphon 25	5 days	January 13, 20	2January 23, 20	23100%									
116	Install Stop Logs - Discharge Structure Siphon 25	3 days	January 18, 20	2January 20, 20	23100%									
122	Install 24" Concrete Riprap - Discharge Structure Siphon 25	0 days	January 23, 20	2January 23, 20	23100%									
118	Install Staff Guages - Discharge Structure Siphon 25	2 days	January 26, 20	2January 27, 20	23100%									- 1
119	Backfill with Top Soil - Discharge Structure Siphon 25	2 days	February 27, 2	0February 28, 2	02100%									
85	E.Wallisville 3rd Road Closure - Siphon 25	6 days	February 6, 20	2February 23, 2	02100%									
204	Canal Levee Improvements	199 days	September 19	, August 8, 2023	59%						1			
205	STA 290+00 To STA 279+00	95 days	September 19	, February 25, 2	02100%						1			
206	Remove Debris, Vegetation and Existing Cuts - STA 279+00	0 days	September 19	, September 21,	2 100%						🦗 9/21			
207	Grade Canal - STA 279+00	18.6 days	September 19	, February 25, 2	02100%									
208	Compact Fill Areas - STA 279+00	19.5 days	September 20,	, February 25, 2	02100%						• 			
212	STA 259+50 To STA 252+50	82 days	November 15,	March 31, 202	3 16%							1	·	
213	Grade Canal - STA 252+50	4 days	November 15,	2March 7, 2023	100%									
219	Reservoir Road	109 days	November 16,	May 15, 2023	19%								·	
256	STA 84+00 To STA 94+50	109 days	November 16,	May 15, 2023	75%								·	
257	Remove 3" of Vegetation - STA 94+50	1.6 days	November 16,	January 3, 202	3 100%							Ċ	¥	
258	Install Fill Material - STA 94+50	1.6 days	November 16,	January 3, 202	3 100%							k l	▶II	
259	Place Geotextile Layer - STA 94+50	3.25 days	November 17,	January 4, 202	3 100%							ł	}	
260	Install Articulated Concrete Blocks - STA 94+50	5.75 days	November 17,	January 5, 202	3 100%							Ļ		
249	STA 48+00 To STA 84+00	50 days	February 20, 2	CMay 5, 2023	42%									
250	Remove 3" of Vegetation - STA 84+00	4 days	February 20, 2	0February 24, 2	02100%									
251	Install Fill Material - STA 84+00	0 days	February 21, 2	0February 24, 2	02100%									

Project: South Canal Improvem	Task		Summary	 Inactive Milestone	\diamond	Duration-only		Start-only	C	External Milestone	\$	Manual Progr
Date: March 9, 2023	Split		Project Summary	Inactive Summary		Manual Summary Rollu	р	Finish-only	3	Deadline	+	critical
	Milestone	•	Inactive Task	Manual Task		Manual Summary		External Tasks		Progress		
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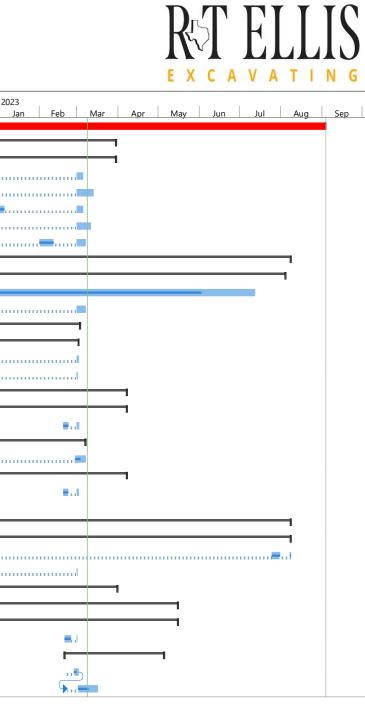


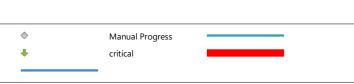


South Canal Improvements Program Phase 2 - February Update In-Progress Work

D	Task Name	Duration	Remaining Duration	Start	Finish	% Complete	Total Slack	202 May Jun Jul Aug Sep Oct Nov Dec
1	South Canal Improvements Program Phase 2	538 days	184.66 days	March 14, 202	September 3, 2	066%	0 days	May Jun Jul Aug Sep Oct Nov Dec .
6	Procurement	221 days	27.26 days	April 6, 2022	March 30, 2023	8 88%	98 days	·
57	Fabricate & Delivery	249 days	135.82 days	July 25, 2022	March 30, 2023	8 45%	157 days	l
61	Aggregate Delivery	20 days	5 days	July 25, 2022	March 5, 2023	75%	182 days	-
60	Geotextile Delivery	25 days	12.5 days	August 4, 2022	March 13, 2023	50%	84.5 days	-
65	Staff Gauges, Conduits & Pull boxes Delivery	25 days	5 days	August 15, 202	March 5, 2023	80%	182 days	
62	Reinforced Steel Delivery	35 days	10.5 days	September 1, 2	March 11, 2023	70%	176.5 days	
59	Articulated Concrete Blocks Delivery	35 days	7 days	September 19,	March 7, 2023	80%	98 days	
69	Construction	261 days	130.18 days	June 9, 2022	August 8, 2023	50%	16 days	
70	General	259 days	89.86 days	June 9, 2022	August 4, 2023	65%	18 days	
71	Site Survey & Layout	244 days	24.4 days	June 9, 2022	July 12, 2023	90%	15 days	
75	Install Driveways and Culverts - E. Houston ST	8 days	4 days	August 2, 2022	March 7, 2023	50%	79 days	
131	Access Culvert	151 days	7.64 days	June 29, 2022	March 3, 2023	95%	115 days	
149	SW Corner	149.5 days	23.61 days	June 29, 2022	March 2, 2023	84%	116.5 days	
152	Grading - Access Culvert	3 days	1.5 days	September 14,	March 2, 2023	50%	98.5 days	
154	Backfill with Topsoil - Access Culvert	3 days	0.75 days	September 14,	March 1, 2023	75%	117.25 days	▶■
82	Siphon 25 - Station 279+00 to 274+50	141 days	11.41 days	August 18, 202	April 7, 2023	92%	93 days	
95	Intake Structure	117 days	31.5 days	September 26,	April 7, 2023	73%	93 days	
103	Install Swing Gates & Handrails - Intake Structure Siphon 25	4 days	2 days	February 19, 20	March 2, 2023	50%	116 days	
124	E. Wallisville Rd. Underground	86 days	8.96 days	October 12, 20	March 7, 2023	90%	114 days	
126	Install driveway Culverts - E. Wallisiville Rd. Siphon 25	5 days	1.25 days	October 12, 20	March 7, 2023	75%	114 days	
110	Discharge Structure	103 days	15.22 days	October 18, 20	April 7, 2023	85%	93 days	
117	Install Swing Gates & Handrails - Discharge Structure Siphon 25	3 days	1.5 days	February 19, 2023	March 2, 2023	50%	116.5 days	
204	Canal Levee Improvements	199 days	81.61 days	September 19,	August 8, 2023	59%	16 days	
209	STA 274+50 To STA 259+50	180 days	18 days	October 18, 20	August 8, 2023	90%	16 days	
210	Grade Canal - STA 259+50	4 days	0.4 days	October 18, 20	August 8, 2023	90%	16 days	human
211	Compact Fill Areas - STA 259+50	5 days	0.5 days	October 18, 20	March 1, 2023	90%	117.5 days	
212	STA 259+50 To STA 252+50	82 days	68.88 days	November 15,	March 31, 2023	8 16%	97 days	
219	Reservoir Road	109 days	88.17 days	November 16,	May 15, 2023	19%	51 days	
256	STA 84+00 To STA 94+50	109 days	27.76 days	November 16,	May 15, 2023	75%	51 days	
261	Backfill with Top Soil - STA 94+50	4 days	0.4 days	February 20, 20	March 1, 2023	90%	94.6 days	
249	STA 48+00 To STA 84+00	50 days	29.23 days	February 20, 2	(May 5, 2023	42%	51 days	
252	Place Geotextile Layer - STA 84+00	3 days	1.2 days	February 21, 20	March 2, 2023	60%	4.8 days	
253	Install Articulated Concrete Blocks - STA 84+00	10 days	5 days	February 22, 20	March 16, 2023	50%	75 days	

Project: South Canal Improvem	Task		Summary	—	Inactive Milestone	\$ Duration-only		Start-only	C	External Milestone
Date: March 9, 2023	Split		Project Summary		Inactive Summary	Manual Summary Rollup		Finish-only	3	Deadline
	Milestone	•	Inactive Task		Manual Task	Manual Summary	I	External Tasks		Progress
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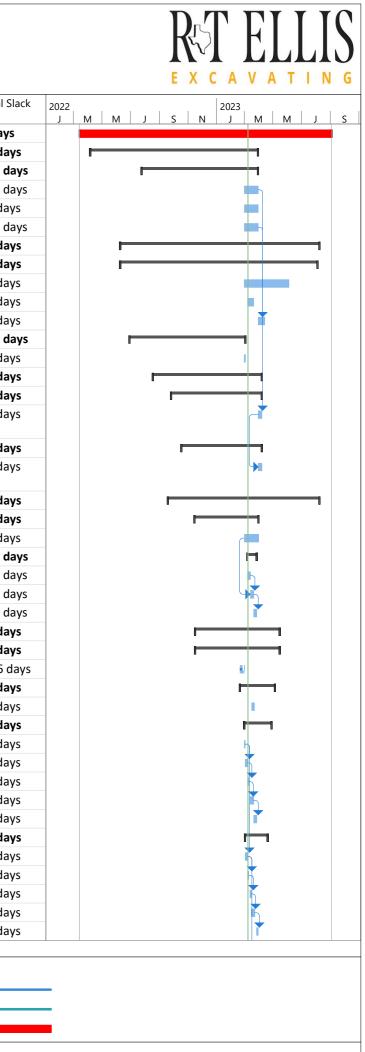




South Canal Improvements Program Phase 2 - February Update 1 Month Look ahead

)	Task Name	Duration	Remaining Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	% Complete	Total S
1	South Canal Improvements Program Phase 2	538 days		March 14, 202	September 3	3, March 14, 2022	September 3,	March 14, 2	September 3,	· ·	0 days
6	Procurement	221 days	27.26 days	April 6, 2022	March 30, 2	02April 6, 2022	March 30, 2023	April 6, 2022	September 3,	88%	98 da
57	Fabricate & Delivery	249 days	135.82 days	July 25, 2022	March 30, 2	02July 25, 2022	March 30, 2023	July 25, 2022	September 3,	. 45%	157 d
58	Recycled Crushed Concrete Delivery	30 days	30 days	March 1, 2023	3 March 30, 20	02 March 1, 2023	March 30, 2023	July 29, 2023	August 27, 202	3 0%	150 d
63	Top Soil delivery	20 days	20 days	March 1, 2023	3 March 30, 20	02 March 1, 2023	March 30, 2023	May 23, 2023	June 26, 2023	0%	54 da
64	Hydro Mulch Delivery	30 days	30 days	March 1, 2023	3 March 30, 20	02 March 1, 2023	March 30, 2023	June 14, 2023	July 13, 2023	0%	105 d
69	Construction	261 days	130.18 days	June 9, 2022	August 8, 20	02: June 9, 2022	August 8, 2023	June 9, 2022	September 3,	. 50%	16 da
70	General	259 days	89.86 days	June 9, 2022	August 4, 20	02: June 9, 2022	August 4, 2023	June 9, 2022	September 3,	. 65%	18 da
80	Migratory Bird Watch -2023	96 days	96 days	March 1, 2023	3 June 4, 2023	8 March 1, 2023	June 4, 2023	May 31, 2023	September 3,	. 0%	91 da
76	Install Fences/Gates- E. Houston ST	9 days	9 days	March 8, 2023	3 March 20, 20	02 March 8, 2023	March 20, 2023	July 11, 2023	July 21, 2023	0%	79 da
81	Hydromulching & Seeding	9 days	9 days	March 31, 202	2 April 13, 202	23 March 31, 2023	April 13, 2023	July 14, 2023	July 26, 2023	0%	66 da
131	Access Culvert	151 days	7.64 days	June 29, 2022	March 3, 20	23June 29, 2022	March 3, 2023	June 29, 2022	September 1,	. 95%	115 d
145	Backfill with Hydromulch - Access Culvert	3 days	3 days	March 1, 2023	3 March 3, 202	23 March 1, 2023	March 3, 2023	August 2, 2	August 4, 2023	0%	97 da
82	Siphon 25 - Station 279+00 to 274+50	141 days	11.41 days	August 18, 20	April 7, 2023	3 August 18, 2022	2 April 7, 2023	August 18,	September 1,	. 92%	93 da
95	Intake Structure	117 days	31.5 days	September 26	6 April 7, 2023	3 September 26	April 7, 2023	September	September 1,	. 73%	93 da
109	Install Recycled Crushed Concrete Base - Intake Structure Siphon 25	5 days	5 days	March 31, 2023	April 7, 2023	3 March 31, 2023	April 7, 2023	August 28, 2023	September 1, 2023	0%	93 da
110	Discharge Structure	103 days	15.22 days	October 18, 2	(April 7, 2023	3 October 18, 2	April 7, 2023	October 18,	September 1,	. 85%	93 da
123	Install Recycled Crushed Concrete Base - Discharge Structure Siphon 25	5 days	5 days	March 31, 2023	April 7, 2023	8 March 31, 2023	April 7, 2023	August 28, 2023	September 1, 2023	0%	93 day
204	Canal Levee Improvements	199 days	81.61 days	September 19	August 8, 20	2:September 19	August 8, 2023	September	September 1,	. 59%	16 da
212	STA 259+50 To STA 252+50	82 days	68.88 days	November 15	, March 31, 2	02November 15	March 31, 2023	November	September 1,	. 16%	97 da
214	Compact Fill Areas - STA 252+50	21 days	21 days	March 1, 2023	3 March 31, 20	02 March 1, 2023	March 31, 2023	August 2, 2	September 1,	. 0%	97 da
215	STA 248+00 To STA 244+00	13 days	13 days	March 8, 2023	March 27, 2	02 March 8, 2023	March 27, 2023	August 14,	September 1,	. 0%	101 d
216	Grade Canal - STA 244+00	4 days	4 days	March 8, 2023	3 March 13, 20	02 March 8, 2023	March 13, 2023	August 14,	August 17, 202	3 0%	101 da
217	Compact Fill Areas - STA 244+00	5 days	5 days	March 14, 202	2 March 20, 20	02 March 14, 2023	March 20, 2023	August 21,	August 28, 202	3 0%	101 da
218	Place 24" Concrete Riprap - STA 244+00	4 days	4 days	March 21, 202	2 March 27, 20	02 March 21, 2023	March 27, 2023	August 29,	September 1,	. 0%	101 d
219	Reservoir Road	109 days	88.17 days	November 16	, May 15, 202	3 November 16	May 15, 2023	November	August 4, 2023	19%	51 da
256	STA 84+00 To STA 94+50	109 days	27.76 days	November 16	, May 15, 202	3 November 16	May 15, 2023	November	August 4, 2023	75%	51 da
261	Backfill with Top Soil - STA 94+50	4 days	0.4 days	February 20, 2	2 March 1, 202	23 February 20, 2	. March 1, 2023	February 20	July 26, 2023	90%	94.6 c
249	STA 48+00 To STA 84+00	50 days	29.23 days	February 20, 2	2 May 5, 2023	B February 20,	May 5, 2023	February 20	July 26, 2023	42%	51 da
254	Backfill with Top Soil - STA 84+00	4 days	4 days	March 17, 202	2 March 22, 20	02 March 17, 2023	March 22, 2023	July 14, 2023	July 19, 2023	0%	75 da
242	STA 34+00 To STA 48+00	39 days	39 days	March 1, 2023	April 28, 202	23 March 1, 2023	April 28, 2023	May 18, 2023	July 19, 2023	0%	51 da
243	Remove 3" of Vegetation - STA 48+00	2 days	2 days	March 1, 2023	3 March 2, 202	23 March 1, 2023	March 2, 2023	May 18, 2023	May 19, 2023	0%	51 da
244	Install Fill Material - STA 48+00	2 days	2 days	March 3, 2023	3 March 7, 202	23 March 3, 2023	March 7, 2023	June 21, 2023	June 22, 2023	0%	68 da
245	Place Geotextile Layer - STA 48+00	3 days	3 days	March 8, 2023	3 March 10, 20	02 March 8, 2023	March 10, 2023	June 23, 2023	June 27, 2023	0%	68 da
246	Install Articulated Concrete Blocks - STA 48+00	6 days	6 days	March 13, 202	2 March 20, 20	02 March 13, 2023	March 20, 2023	June 28, 2023	July 6, 2023	0%	68 da
247	Backfill with Top Soil - STA 48+00	4 days	4 days	March 21, 202	2 March 27, 20	02 March 21, 2023	March 27, 2023	July 7, 2023	July 12, 2023	0%	68 da
235	STA 14+00 To STA 34+00	32 days	32 days	March 3, 2023	April 20, 202	23 March 3, 2023	April 20, 2023	May 22, 2023	July 12, 2023	0%	51 da
236	Remove 3" of Vegetation - STA 34+00	2 days	2 days	March 3, 2023	3 March 7, 202	23 March 3, 2023	March 7, 2023	May 22, 2023	May 23, 2023	0%	51 da
237	Install Fill Material - STA 34+00	3 days	3 days	March 8, 2023	3 March 10, 20	02 March 8, 2023	March 10, 2023	June 13, 2023	June 15, 2023	0%	60 da
238	Place Geotextile Layer - STA 34+00	3 days	3 days	March 13, 202	2 March 15, 20	02 March 13, 2023	March 15, 2023	June 16, 2023	June 20, 2023	0%	60 da
239	Install Articulated Concrete Blocks - STA 34+00	6 days	6 days	March 16, 202	2 March 23, 20	02 March 16, 2023	March 23, 2023	June 21, 2023	June 28, 2023	0%	60 da
240	Backfill with Top Soil - STA 34+00	4 days						June 29, 2023		0%	60 day

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		Task		Project Summary	II	Manual Task		Start-only	E	Deadline	÷
	Project: South Canal Improvem	Split		Inactive Task		Duration-only		Finish-only	3	Progress	
	Date: March 9, 2023	Milestone	•	Inactive Milestone	\diamond	Manual Summary Rollup		External Tasks		Manual Progress	
		Summary	1	Inactive Summary	0	Manual Summary	—	External Milestone	\diamond	critical	
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) Task	Name	Duration Remaining Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	% Complete	Total Slack	2022 2023 J M M J S N J
27	Alternate Road	25 days 25 days	March 8,	2023 April 13	, 2023 March 8, 2023	April 13, 2023	May 24, 2023	July 5, 2023	0%	51 days	
28	Remove 3" of Vegetation - Alternate Road	2 days 2 days	March 8,	2023 March 9	, 2023 March 8, 2023	March 9, 2023	May 24, 2023	May 26, 2023	0%	51 days	
29	Install Fill Material - Alternate Road	3 days 3 days	March 10	, 202 March 1	4, 202 March 10, 2023	March 14, 2023	May 30, 2023	June 1, 2023	0%	51 days	
0	Place Geotextile Layer - Alternate Road	3 days 3 days	March 15	, 202 March 1	7, 202 March 15, 2023	March 17, 2023	June 2, 2023	June 6, 2023	0%	51 days	
31	Install Recycled Crush Concrete Base - Alternate Road	4 days 4 days	March 20	, 202 March 2	3, 202 March 20, 2023	March 23, 2023	June 12, 2023	June 15, 2023	0%	51 days	
32	Install Articulated Concrete Blocks - Alternate Road	7 days 7 days	March 27	, 202 April 5, 2	2023 March 27, 2023	April 5, 2023	June 16, 2023	June 26, 2023	0%	51 days	
20	STA 00 To STA 14+00	22 days 22 days	March 10	, 202 April 12	, 2023 March 10, 2023	April 12, 2023	May 30, 2023	July 3, 2023	0%	51 days	
21	Remove 3" of Vegetation - STA 14+00	2 days 2 days	March 10	, 202 March 1	3, 202 March 10, 2023	March 13, 2023	May 30, 2023	May 31, 2023	0%	51 days	
22	Install Fill Material - STA 14+00	3 days 3 days	March 14	, 202 March 1	6, 202 March 14, 2023	March 16, 2023	June 1, 2023	June 5, 2023	0%	51 days	
23	Place Geotextile Layer - STA 14+00	3 days 3 days			1, 202 March 17, 2023				0%	51 days	
4	Install Articulated Concrete Blocks - STA 14+00	5 days 5 days	March 22	, 202 March 2	9, 202 March 22, 2023	March 29, 2023	June 14, 2023	June 20, 2023	0%	51 days	
25	Backfill with Top Soil - STA 14+00	4 days 4 days			2023 March 30, 2023	-			0%	51 days	
5	Siphon 26 - Station 252+50 to 238+00	100 days 100 days		-	4, 202 March 1, 2023	-			. 0%	0 days	
6	N.Battlebell Road 1st Closure - Siphon 26	12 days 12 days		-	7, 202 March 1, 2023		-	•	0%	34 days	
9	Demolition	74 days 74 days			2023 March 1, 2023				0%	0 days	
0	Install Care of Water diversion channel - Siphon 26	7 days 7 days			0, 202 March 1, 2023			-	0%	0 days	
	Ground/Surface Water Control - Siphon 26	74 days 74 days			2023 March 1, 2023				0%	18 days	
	Remove 2-42" RCPs - Siphon 26	4 days 4 days			2, 202 March 17, 2023			-	0%	0 days	
	Repair/Relocate Existing Utilities - Siphon 26	4 days 4 days			9, 202 March 23, 2023				0%	24 days	
	Remove Existing Driveways - Siphon 26	3 days 3 days			2023 March 30, 2023		May 5, 2023		0%	24 days	
'	N.Battlebell Road 2nd Closure - Siphon 26	12 days 12 days			2023 March 17, 2023	-	-		0%	6 days	
7	Intake Structure	55 days 55 days	March 23	, 202 June 20,	2023 March 23, 2023	June 20, 2023	March 23, 2	September 1,	. 0%	0 days	
	Excavation - Intake Structure - Siphon 26	5 days 5 days			0, 202 March 23, 2023			-		0 days	
		6 days 6 days	March 31	, 202 April 10,	2023 March 31, 2023	April 10, 2023	April 6, 2023	April 13, 2023	0%	3 days	
3	•				2023 March 31, 2023	-		April 13, 2023		3 days	
8 9	Install Cement Stabilized Sand - Intake Structure - Siphon 26		IVIdICII 31					-		,	
58 59 70 52	•	6 days 6 days 53 days 53 days			2023 March 31, 2023		March 31, 2	September 1,	. 0%	0 days	

	Task		Project Summary		1	Manual Task		Start-only	C	Deadline	÷
Project: South Canal Improvem	Split		Inactive Task			Duration-only		Finish-only	C	Progress	
Date: March 9, 2023	Milestone	•	Inactive Milestone	\diamond		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary	—	Inactive Summary	0	1	Manual Summary	H1	External Milestone	\diamond	critical	
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10.Conclusion

This update reflects progress throughout R&T Ellis Excavating Inc has progressed in the schedule, and becomes ahead of substantial completion date. R&T has progressed with the Fabrication & Delivery of Articulated Concrete Blocks. First Station of the Canal Levee Improvements is finished on February. For Siphon 25, the Ground/Surface Water Control is completed as well as placing geotextile, concrete riprap installation, Stop logs, and staff gauges, then the Backfilling. Wallisville Road underground starts with the driveway culverts. The project is still ahead of the baseline schedule by 33 days.

Furthermore, the project exhibit works in open areas throughout its total duration which requires having specific calendars to match the working conditions of weather days, environmental safety, and traffic road closures. This is reflected in the schedule as demonstrated in the detailed sequencing operations of the schedule and this narrative report.

All the detailed information about the project is discussed in the above sections. The overall strategy is to have the schedule match the construction logic along with maintaining it ahead of schedule and under budget.