

**Alliance Regional Water Authority  
Technical Committee**

**REGULAR MEETING**



**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Call-In Number: 1-346-248-7799

Meeting ID: 896 9982 2817

Passcode: 257788

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

A quorum of Alliance Regional Water Authority's (the Authority's) Technical Committee will hold a meeting by telephonic conference call at 3:00 PM, Wednesday, July 12th, 2023. The public may participate in this meeting by calling the following number and code:

[ZOOM MEETING LINK](#)

Call-In Number: 1-346-248-7799

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Members of the public wishing to make public comment during the meeting must register by emailing [info@alliancewater.org](mailto:info@alliancewater.org) prior to 3:00 p.m. on July 12, 2023. This meeting will be recorded and the audio recording will be available on the Authority's website after the meeting. A copy of the agenda packet will be available on the Authority's website at the time of the meeting. Additional information can be obtained by calling Graham Moore at (512) 294-3214.

A. CALL TO ORDER

B. ROLL CALL

C. PUBLIC COMMENT PERIOD (Note: Each person wishing to speak must submit a completed Public Comment Form to the Executive Director or his/her designee before the public comment period begins.)

D. CONSENT AGENDA

D.1 Consider approval of minutes of the Regular Technical Committee Meeting held June 14, 2023. ~ *Graham Moore, P.E., Executive Director*

E. PRESENTATIONS TO THE COMMITTEE

E.1 None.

F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ *Toby Flinn, P.E., Pape-Dawson Engineers*

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- F.2 Discussion and possible approval of Change Proposal #CP007B with MWH Constructors, Inc. for Installation of Additional Entry Culverts on the Authority's Phase 1B Booster Pump Station and Delivery Points Project. ~ *Graham Moore, P.E., Executive Director*
- F.3 Discussion and possible approval of Change Proposal #CP009B with MWH Constructors, Inc. Changes at the Detention Pond Spillway on the Authority's Phase 1B Booster Pump Station and Delivery Points Project. ~ *Graham Moore, P.E., Executive Director*
- F.4 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
- F.5 Discussion of the draft Authority budget for FY 2023-24; and possible direction to staff. ~ *Graham Moore, P.E., Executive Director*
- F.6 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities. ~ *Graham Moore, P.E., Executive Director*
- G. EXECUTIVE DIRECTOR REPORT - Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director*
- H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Committee Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.
- I. EXECUTIVE SESSION
  - I.1 *Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:*
    - A. *Water supply partnership options*
    - B. *Groundwater leases*
    - C. *Acquisition of real property for water supply project purposes*

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- I.2 Action from Executive Session on the following matters:
  - A. *Water supply partnership options*
  - B. *Groundwater leases*
  - C. *Acquisition of real property for water supply project purposes*

J. ADJOURNMENT

**NOTE:** *The Technical Committee may meet in Executive Session to consider any item listed on this agenda if a matter is raised that is appropriate for Executive Session discussion. An announcement will be made of the basis for the Executive Session discussion. The Technical Committee may also publicly discuss any item listed on the agenda for Executive Session.*

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**A. CALL TO ORDER**

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No Backup Information for this Item.

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**B. ROLL CALL**

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<u>NAME</u>	<u>PRESENT</u>
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Blake Neffendorf

Derrick Turley

Paul Kite

Humberto Ramos

Tim Samford

Regina Franke

<u>NON-VOTING MEMBERS</u>	<u>PRESENT</u>
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Mayor Lee Urbanovsky

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**C. PUBLIC COMMENT PERIOD**

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Each person wishing to speak must submit a completed Public Comment Form to the Executive Director or his/her designee before the public comment period begins.

Comments are limited to 3-minutes per agenda item and three minutes total for all non-agenda topics. If using a translator, comments are limited to six minutes per agenda item and six minutes total for non-agenda topics.

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**D. CONSENT AGENDA**

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Item D.1 is presented as part of the consent agenda.



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**D.1** Consider approval of minutes of the Technical Committee Meeting held June 14, 2023. ~ *Graham Moore, P.E., Executive Director*

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Attachment(s)

- 2023 06 14 Technical Committee Meeting Minutes

**Technical Committee decision needed:**

- Approval of minutes.



**Alliance Regional Water Authority**

**TECHNICAL COMMITTEE MEETING**

**MINUTES**

**Wednesday, June 14, 2023**

The following represents the actions taken by the Technical Committee of the Alliance Regional Water Authority (Alliance Water) in the order they occurred during the meeting. The Technical Committee convened in a meeting on Wednesday, June 14, 2023 by telephonic conference call.

**A. CALL TO ORDER.**

**The Alliance Water Technical Committee Meeting was called to order at 3:02 p.m. by Mr. Neffendorf.**

**B. ROLL CALL.**

- **Present: Neffendorf, Turley, Kite, Ramos and Franke. Mr. Neffendorf left the meeting after Item F.3.**
- **Absent: Samford and Urbanovsky.**

**C. PUBLIC COMMENT PERIOD**

- **None.**

**D. CONSENT AGENDA**

**D.1 Consider approval of minutes of the Regular Technical Committee Meeting held May 10, 2023.**

- **Motion to adopt the minutes as presented was made by Mr. Ramos, seconded by Mr. Turley and approved on a 5-0 vote.**

**E. PRESENTATIONS TO THE COMMITTEE**

**E.1 None.**

## F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

**Note: the items below were taken out of order from the original agenda.**

- F.3 Discussion and possible direction to Staff regarding the updated Phase 1B budget projections.
- **Mr. Ramos noted that he would like to see it memorialized that the Administration Building was downsized resulting in no change in cost for the facility.**
  - **Mr. Kite, Mr. Ramos and Mr. Neffendorf inquired about the spaces utilized in the building and some of the parking, fences, etc. related to the facility.**
  - **Mr. Neffendorf would like more information on refunding of possible private financing as well as the terms for refinancing previously issued SWIFT bonds.**
  - **No Action.**
- F.4 Discussion of the draft Authority budget for FY 2023-24; and possible direction to staff. ~ *Graham Moore, P.E., Executive Director.*
- **Mr. Moore presented the draft FY 2023-24 budget.**
  - **Mr. Moore stated that the Authority likely needs to hire a rate consultant to help set the fixed and variable rates for operations and maintenance of the Carrizo water.**
  - **Mr. Ramos asked if there is enough time for the consultant to do their work.**
  - **Mr. Moore stated that there is enough information to budget the O&M for the next year and that there is enough time prior to actual operations of the system for a consultant to set the rates.**
  - **No Action.**
- F.5 Discussion and possible recommendation to the Board to adopt the Water Projections Update Policy. *Graham Moore, P.E., Executive Director*
- **Mr. Moore presented the draft Water Projections Update Policy.**
  - **Mr. Ramos made a motion to recommend to the Board approval of the Water Projections Update Policy, Mr. Turley seconded the motion and it was approved on a 4-0 vote.**
- F.6 Discussion of legislative issues for the 88<sup>th</sup> Texas Legislature and possible direction to Staff.
- **Mr. Moore discussed the key issues in the current legislative update.**
  - **No Action.**

F.7 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities.

- **Mr. Moore provided an update.**
- **No Action.**

G. EXECUTIVE DIRECTOR REPORT

- **No Action.**

H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS

- **None.**

I. EXECUTIVE SESSION

I.1 Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:

- A. Water supply partnership options
- B. Groundwater leases
- C. Acquisition of real property for water supply project purposes

I.2 Action from Executive Session on the following matters:

- A. Water supply partnership options
  - B. Groundwater leases
  - C. Acquisition of real property for water supply project purposes
  - D. Operation and Maintenance Agreement of Carrizo Regional Water Supply
- **No Action.**

**Note: the items below were taken out of order from the original agenda.**

F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program.

- **Mr. Flinn with Pape-Dawson provided an update on the Phase 1B construction.**
- **Mr. Ramos inquired if electrical equipment has been an issue.**
- **Mr. Flinn stated that it has been a challenge but that we have not yet received any formal notice of delays due to electrical gear.**
- **No Action.**

F.2 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program.

- **Mr. Cobler with Kimley-Horn provided an update on the Phase 1B program.**
- **Mr. Ramos asked about the four well field parcels that are under negotiation.**
- **Mr. Cobler stated that these are in future well field expansions.**
- **No Action.**

J. ADJOURNMENT

- **Meeting was adjourned at 4:15 p.m. based on the motion by Mr. Turley, seconded by Mr. Ramos and approved on a 4-0 vote.**

APPROVED: \_\_\_\_\_, 2023

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- F.1** Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ *Toby Flinn, P.E., Pape-Dawson Engineers*
- 

Background/Information

Toby Flinn with Pape Dawson will update the Committee on recent construction activities associated with the Phase 1B program.

Attachment(s)

- Phase 1B Construction Update – July 5, 2023

**Technical Committee Decisions Needed:**

- None.



# PHASE 1B CONSTRUCTION UPDATE

July 5, 2023

Water Resources | Transportation | Land Development | Surveying | Environmental

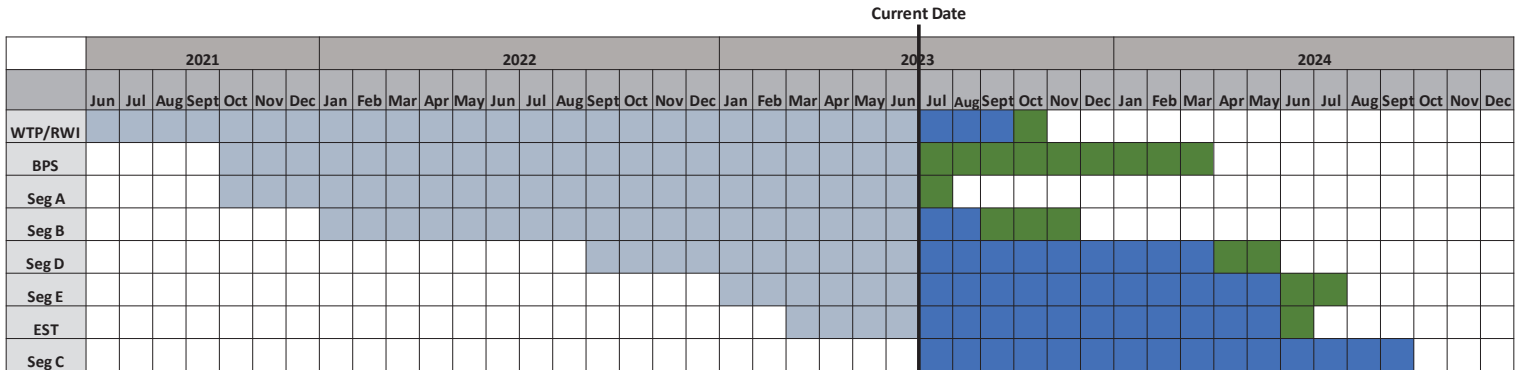


## PROGRAM CONTRACT VALUES



PROJECT	ORIGINAL CONTRACT PRICE	APPROVED CONTRACT MODIFICATIONS	CURRENT CONTRACT VALUE	BILLED TO DATE	REMAINING	% COMPLETE
WTP/RWI	\$54,349,675.00	\$736,813.00	\$55,086,488.00	\$40,010,806.69	\$15,075,681.31	72.63%
BPS	\$19,759,331.00	\$87,158.88	\$19,846,489.88	\$14,485,699.02	\$5,360,790.86	72.99%
Seg A	\$49,471,384.71	(\$155,114.12)	\$49,316,270.59	\$44,818,691.74	\$4,497,578.85	90.88%
Seg B	\$37,629,104.42	\$4,551,274.66	\$42,180,379.08	\$36,764,178.04	\$5,416,201.04	87.16%
Seg D	\$ 46,663,969.35	\$10,094.36	\$46,674,063.71	\$16,071,342.54	\$30,602,721.17	34.43%
Seg E	\$27,277,770.46	\$0.00	\$27,277,770.46	\$1,534,875.00	\$25,742,895.46	5.63%
EST	\$4,573,000.00	\$0.00	\$4,573,000.00	\$1,279,108.00	\$3,293,892.00	27.97%

# PROGRAM SCHEDULE DURATIONS



Project	Contract Dates				Program Sub Completion Status (June 2023)
	Notice to Proceed	Original Sub Completion	Current Sub Completion	Final Completion	
WTP/RWI	7/16/2021	7/16/2023	9/3/2023	11/2/2023	Behind 63 days
BPS	10/25/2021	3/18/2023	3/18/2023	3/18/2024	On Time
Seg A	11/16/2021	6/9/2023	6/9/2023	10/7/2023	On Time
Seg B	2/15/2022	8/9/2023	9/17/2023	12/1/2023	On Time
Seg D	9/19/2022	4/1/2024	4/1/2024	5/31/2024	On Time
Seg E	1/25/2023	5/24/2024	5/24/2024	7/23/2024	On Time
EST	3/28/2023	5/21/2024	5/21/2024	6/20/2024	On Time

## Water Treatment Plant / Raw Water Infrastructure (Archer Western / Walker Partners)

### Construction Status

- Continued with the electrical duct bank and underground conduit installation.
- Continued the WTP site culverts installation.
- Continued installation of the raw water well field fiber hand holes.
- Continued painting at the filter complex process piping.
- Began installation of the HSPS electrical conduit installation.
- Began installation the Filter Complex wall and roof panels installation.
- Began installation of the HVAC ductwork at the HSPS electrical building.
- Began placement of the sludge drying bed concrete ramps
- Began earthwork and formed grade beams for surge tank control building foundation
- Installed Lime system control building
- Completed the installation of the filter unit access walkways
- Completed the visual inspection of the 48" PW-A waterline to SH304



WTP - HSPS Flushing Pump Cans



## WTP/RWI - Progress Photos



WTP – Rapid Mix Setting Dowels for 24”  
GW Concrete Pipe Supports



WTP – Rapid Mix Forming Concrete  
Saddle on 24” GW Pipe



WTP – Rapid Mix Grout 24” GW Concrete  
Saddle Support **5**

## Water Treatment Plant / Raw Water Infrastructure (Archer Western / Walker Partners)

### Next Month - Projected Construction Activities

- Continue with electrical duct bank and underground conduit installation.
- Continue installation of the HSPS electrical conduit installation.
- Continue the WTP site culverts installation at the WTP site and continue site grading.
- Continue installation the Filter Complex wall and roof panels installation.
- Continue installation of the Lime System piping and appurtenances.
- Continue painting at the filter complex process piping.
- Continue installation of the raw water well field fiber hand holes.
- Install the sludge drying beds filtrate lines.
- Install the Rapid Mix basin slide gates
- Place the grade beams for surge tank control building foundation.



WTP – Grading Subgrade for Drying Beds

# Booster Pump Station (MWH / Freese and Nichols)

## Construction Status

- Continued FRP for the concrete drive and installation of expansion joints.
- Corrected pump sole plate alignment and level on two pump cans.
- Continued backfill and site grading around the GST.
- Continued site grading around the electrical building.
- Continued electrical equipment installation at the electrical building (RVSS's, PFCC, LV panels).
- Began installation of electrical building man doors and hardware.
- Installed the underground piping and valves at CRWA#4 delivery point.
- FRP for the delivery point pad at CRWA#4 delivery point.



BPS – Backfill efforts around BOV manhole at STA 7+76

## BPS- Progress Photos



BPS – Excavation Around GST



BPS – 18" Clay Cap Around GST

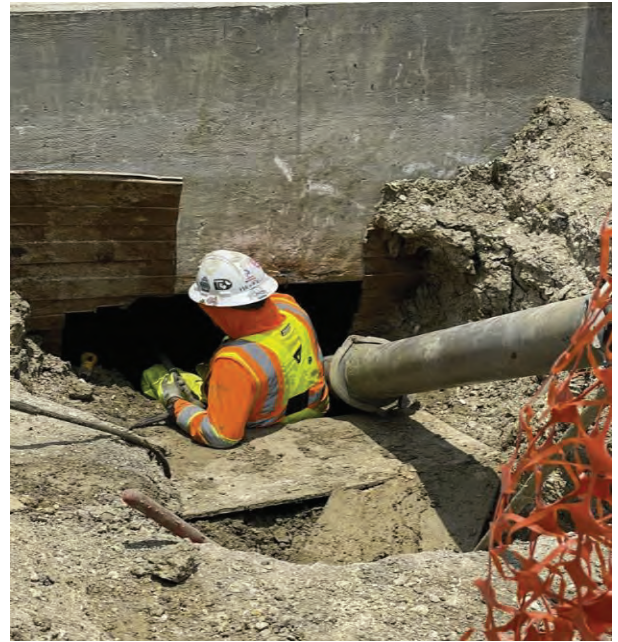


BPS – Base Material Placement Around GST

# Booster Pump Station (MWH / Freese and Nichols)

## Next Month - Projected Construction Activities

- Continue installation and placement of the main concrete drive entrance.
- Continue site grading along the Segment B, C and D waterlines and Swale.
- Continue electrical work and equipment installation at the electrical building.
- Install limestone base road around the GST.
- Begin re-grading of the detention pond and trickle channel installation.
- Make the connection to the segment B2 line.

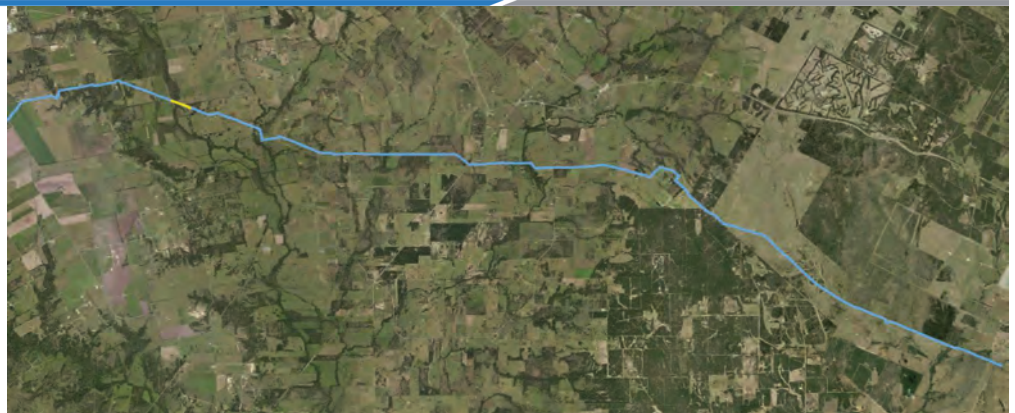


BPS – Hydro-excavation under Pump Station Slab

# Segment A (Garney Construction / LAN)

## Construction Status

- Not Started
- ROW Cleared
- Pipe Delivered
- Pipe Installed
- Complete



Activity	Status
ROW Cleared	100%
Pipe Delivered	100%
Tunnels Completed	100%(15 of 15)
Pipe Installed	99%
Major Crossing (Plum Creek)	Mobilization & setup of equipment to start microtunneling

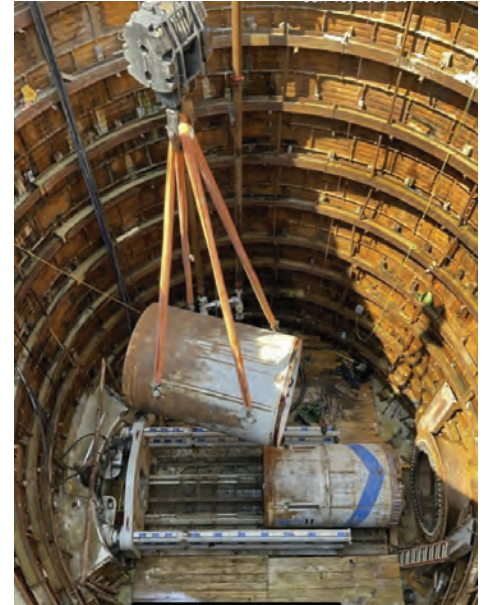
## Segment A – Progress Photos



Seg A – Melcar’s Conducts Communications Check in Control Room



Seg A – Melcar Places Electric Panel Next to Bore Pit



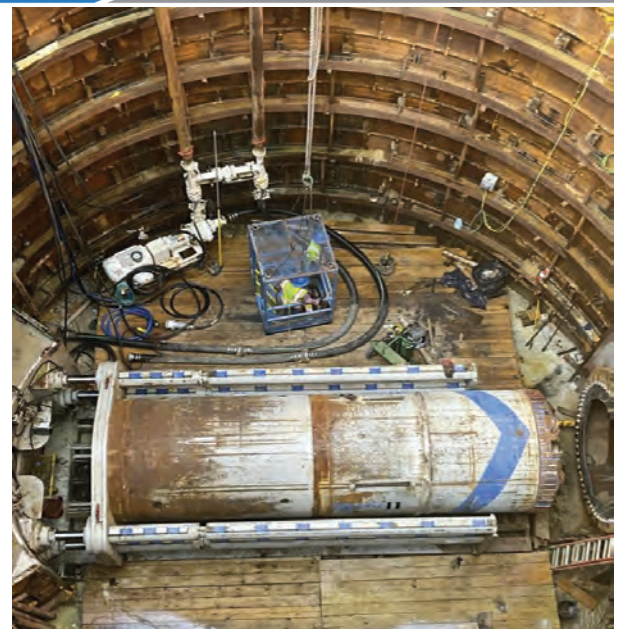
Seg A - Melcar Lowers 2<sup>nd</sup> Section of Bore Head into Pit

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## Segment A (Garney Construction / LAN)

### Next Month - Projected Construction Activities

- Pipe Installation
  - Finish stripping, trenching, and pipe installation operations with pipe laying Crew 1, between FM 86 and Fox Lane.
  - Pipe laying crew is pouring 3000 psi concrete anchors as they lay past appurtenance locations, installing wires for test stations for cathodic protection, and stacking out precast at appurtenance locations after pouring concrete.
- Major Crossing Completed 0% (0 of 1)
  - Finish mobilization and setup of equipment to start microtunneling operations.
- Perform maintenance on all county roads and private roads being used for construction operations.
- Continue haul-off excess native material and rough grading.
- Finish interior joint grouting and start internal pipe inspections.
- Start final build out of drain valve assemblies.
- Conduct bi-weekly meeting 6/22/23.



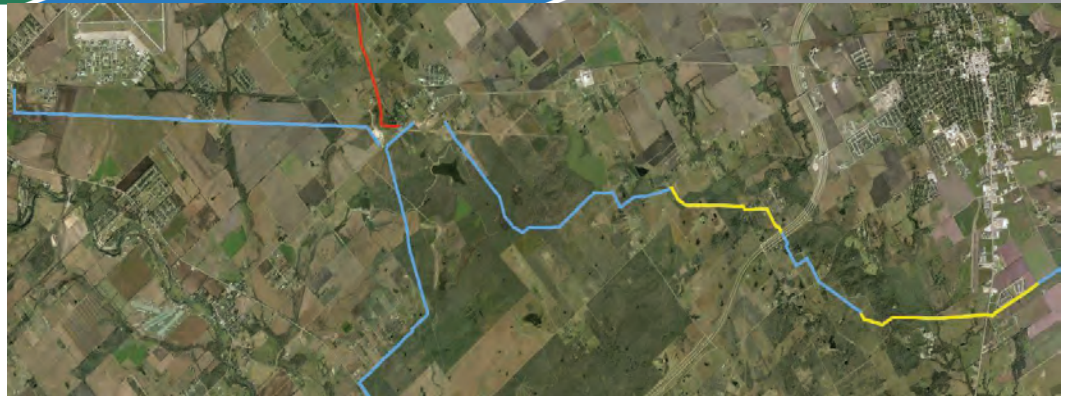
Seg A – Melcar sets 2<sup>nd</sup> half of Bore Head

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# Segment B (Garney Construction / K Friese)

### Construction Status

- Not Started
- ROW Cleared
- Pipe Delivered
- Pipe Installed
- Complete



Activity	Status
ROW Cleared	100%
Pipe Delivered	100%
Tunnels Completed B1	100% (21 of 21)
Tunnels Completed B2	75% (3 of 4)
Pipe Installed	73%
Major Crossing (TX 130)	100%

## SEGMENT B - PROGRESS PHOTOS



Seg B – Garney Preparing to set Pipe at SH130



Seg B – Garney Crew placing Pipe at SH130



Seg B – Garney Constructing Bulkhead at SH130

## Segment B (Garney Construction / K Friese)

### Next Month - Projected Construction Activities

- Pipe Installation
  - Continue installation of pipe on B1
  - Hauling off excess spoils from project site and spreading topsoil
  - Continue pouring concrete anchors for precast at CAV and Drain Valves
  - Setting precast structures for appurtenances behind laying operation
- Major Crossings
  - Finish pushing carrier pipe through SH130 casing.
  - Grout carrier pipe in SH130 casing.
- Tunnels
  - 21 of 21 (100%) on original B1/B2 scope of work.
  - Hold on CP002 scope of tunnel installations for segment B2 during installation of SH130 tunnel; current total is 3 of 4 (75%) completed on CP002 scope of work added to segment B contract
- Continue pouring concrete anchors for precast at CAV, access manways, and drain valves.
- Set precast at CAV, access manways, and drain valve locations.



Segment B – Garney applying Canusa on pipe.

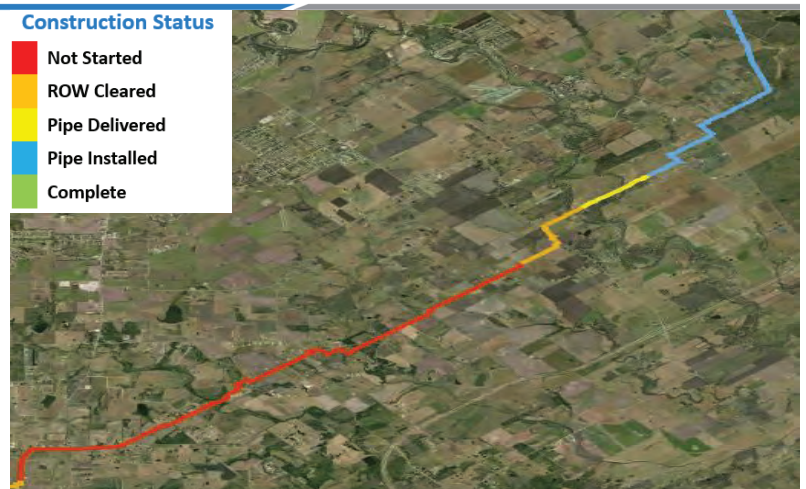
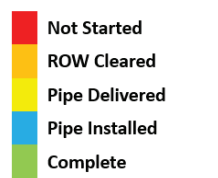
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## Segment D (SJ Louis / Freese & Nichols)

### Construction Activities

- Continued SWPPP installations on South side of San Marcos River in front of pipe stringing operations.
- Continued temporary fence gaps for access and cattle fencing along easements.
- Prepping ROW by installing culverts on the Giberson Property and leveling out easements for access with pipe truck
- Continued pipe laying operations between HWY 80 and SE River Road.
- Welding operations are tracking close behind laying operation and being completed in restrained sections on a weekly basis.
- Finished tunnel installation at the Martindale Diversion.

#### Construction Status



Activity	Status
ROW Cleared	46%
Pipe Delivered	34%
Tunnels Completed	33% (6 of 18)
Pipe Installed	29%
Major Crossing (San Marcos River Crossing)	0%

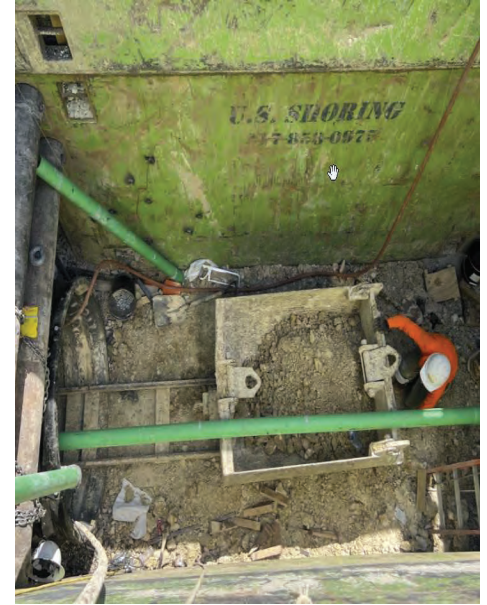
## Segment D – Progress Photos



Seg D – Morrison Creek Tunnel



Seg D – Tunneling at FM 1339



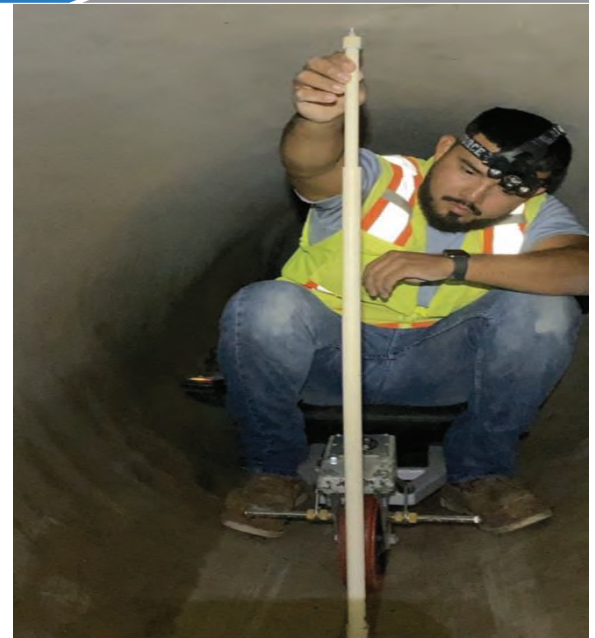
Seg D – Tunnel Crew

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## Segment D (SJ Louis / Freese & Nichols)

### Next Month - Projected Construction Activities

- Continue with installation of temporary fence gaps for access and cattle fencing along easements.
- Continue with SWPPP installation on south side of the San Marcos River.
- Continue pipe deliveries South of San Marcos River.
- Continue pipe installation between HWY 80 and SE River Road.
- Tunnels
  - 4 of 18 (12%)
  - Finish first FM 1339 tunnel South of FM 621 and start on second FM 1339 tunnel.
- Major Crossings
  - 0 of 1 (0%) San Marcos River Crossing



Seg D – Pipe Deflection Check 18

# Segment E (Garney / Walker Partners)

### Construction Activities

- Coordination continues with developments along 758 and 46.
- UIR permits have inspections initiated.
- Garney continued surveying layout.
- Installation of temp gates for access continued by Razor.
- Continued clearing operations by Razor.
- Continued silt fence installation by Doucet.
- Crop damage is being tracked for BMP installations and clearing operations.

### Next Month - Projected Activities

- Processing documentation in SharePoint.
- Continue staking easement limits and gathering as-built information on existing tie-in locations.
- Finish bird survey coordination and clearing operations.
- Continue silt fence installation by Doucet.
- Tunnels
  - Auger and/or hand tunneling operations have not started.
- Major Crossings
  - Lake Dunlap crossing has not started.

### Construction Status

- Not Started
- ROW Cleared
- Pipe Delivered
- Pipe Installed
- Complete



Activity	Status
ROW Cleared	77%
Pipe Delivered	0%
Tunnels Completed	0%(0 of 0)
Pipe Installed	0%
Major Crossing (San Marcos River Crossing)	0%

# Segment E – Progress Photos



Seg E – Clearing from Trees



Seg E – Surveying for Elevation Connection at Plant



Seg E – Installing Gravel with Barrier



# Elevated Storage Tanks Landmark / Plummer

## Construction Activities

- Completed the EST Foundation.
- Continued processing project documentation in Autodesk.
- Conducted monthly progress meeting
- Continue with fence

## Next Month - Projected Activities

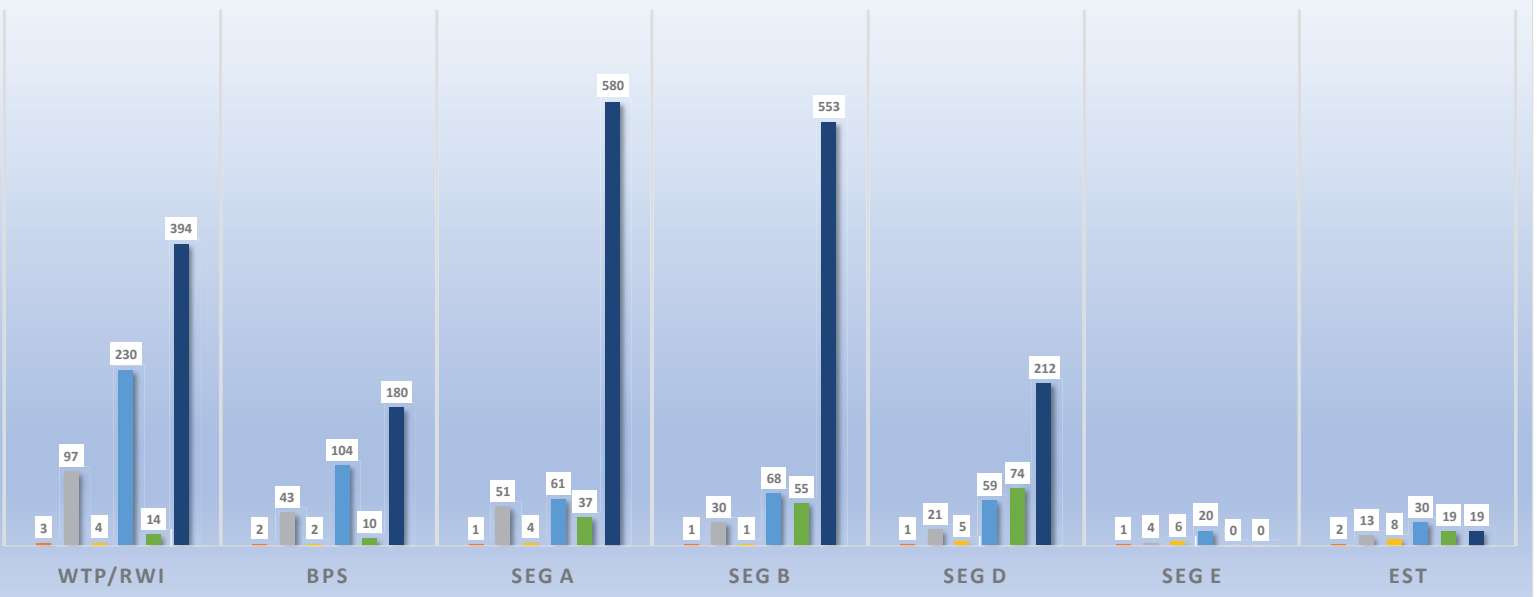
- Continue with installation of storm drain and yard piping.
- Continue with site cleanup.
- Projecting to start tank build after July 4<sup>th</sup>.



EST – Completed Cap Base

# PROGRAM OVERSIGHT RECAP

■ RFIs This Period  
 ■ RFIs To Date  
 ■ Submittals This Period  
 ■ Submittals To Date  
 ■ Test Reports This Period  
 ■ Test Reports To Date



**QUESTIONS?**

**REGULAR MEETING**  
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**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

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**F.2** Discussion and possible approval of Change Proposal #CP007B with MWH Constructors, Inc. for Installation of Additional Entry Culverts on the Authority’s Phase 1B Booster Pump Station and Delivery Points Project. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Final approval of the City of San Marcos Watershed Protection Plan Phase 2 permit required the addition of additional 2’x6’ culverts at the Maxwell Booster Pump Station entrance road and a 12” RCP culvert across the road in one area. These improvements were not included in the original design and therefore must be added to the construction contract via change order.

The total cost for adding the culverts is \$164,438.92 with ARWA responsible for \$72,353.12 of this total. The CM&I team went through three iterations of review and negotiations with the contractor to arrive at the value that is presented.

Five previous change orders have been approved on this project, as noted below:

<b>Booster Pump Station &amp; Delivery Points Change Orders</b>				
	<b>Total</b>	<b>ARWA Share</b>	<b>GBRA Share</b>	<b>Notes</b>
Original Contract	\$19,759,331.00	\$12,359,243.29	\$7,400,087.71	
CO #1 (Delete Field Office)	\$(23,604.00)	\$(10,324.39)	\$(13,279.61)	Executive Director Approved
CO #2 (Replace BFV w/ Gate Valve)	\$(29,468.29)	\$(12,889.43)	\$(16,578.86)	Executive Director Approved
CO #4 (Add GVs and DPs)	\$45,815.84	\$45,815.84	\$0	Executive Director Approved
CO #5 (Prep for Maxwell DP)	\$73,915.33	\$73,915.33	\$0	Executive Director Approved
<b>Total Adjusted Contract</b>	<b>\$21,996,489.88</b>	<b>\$12,476,259.64</b>	<b>\$7,370,229.24</b>	
<b>% Increase</b>	<b>0.4%</b>	<b>0.95%</b>	<b>-0.4%</b>	

Attachment(s)

- CP007B – Entry Culverts

**Technical Committee Decisions Needed:**

- Approval of Change Proposal #CP007B with MWH Constructors, Inc. for Installation of Additional Entry Culverts on the Authority’s Phase 1B Booster Pump Station and Delivery Points Project.

<b>Project:</b> _____ <b>Owner:</b> Alliance Regional Water Authority <b>Contractor:</b> _____ <b>Engineer:</b> _____	<b>Project Number:</b> ARWA1B- _____
<b>Change Proposal No.:</b> _____ <b>Description:</b> _____ <b>Specification:</b> _____ <b>Drawing No.:</b> _____ <b>Drawing Detail No.:</b> _____	
<b>Reference Document:</b> <input type="checkbox"/> Request for a Change Proposal No.: _____ <input type="checkbox"/> Request for Information No.: _____ <input type="checkbox"/> Shop Drawing Deviation Request No.: _____ <input type="checkbox"/> Field Order No.: _____	
<b>Contractor proposes the following modifications to the Contract Documents:</b>     	
<b>Purpose of Change Proposal:</b>     	
<b>Attachments:</b>    	
<b>Requested Action:</b> <input type="checkbox"/> Issue a Field Order <input type="checkbox"/> Issue a Work Change Directive or Change Order for the described changes <b>Basis of Compensation:</b> <input type="checkbox"/> Unit Prices <input type="checkbox"/> Lump Sum calculated using Cost of Work provisions in General Conditions Paragraph 11.5 <input type="checkbox"/> Time and Materials using Cost of Work provisions in General Conditions Paragraph 11.5 <b>Required Documentation:</b> <input type="checkbox"/> Detailed cost breakdown attached showing labor, materials, equipment, and all other costs for this change <input type="checkbox"/> Schedule attached to show impacts and justification for requested change in Contract Times	
<b>Total Change Proposal Amount:</b> _____ <b>Adjustment in Contract Times (days):</b> _____	

<b>Project:</b> _____	<b>Project Number:</b> _____
<b>Owner:</b> Alliance Regional Water Authority	ARWA1B- _____
<b>Contractor:</b> _____	
<b>Engineer:</b> _____	

*The compensation offered for this Change Proposal is the full, complete, and final compensation for all costs the Contractor may incur as a result of or relating to this change whether said costs are known, unknown, foreseen, or unforeseen at this time, including without limitation, any cost for delay, extended overhead, ripple or impact cost, or any other effect on changed or unchanged Work as a result of this Contract Modification. Requested changes in Contract Times are the complete and final adjustments for direct impacts to the ability of the Contractor to complete the Work within the Contract Times and are the only adjustments to which the Contractor is entitled.*

*Except as modified hereby, the Contract Documents and all of the terms and provisions thereof remain in full force and effect.*

**Certified by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**CMI/PM Action:**

- Field Order No.: \_\_\_\_\_ Issued       Change Order No.: \_\_\_\_\_ Issued
- Contract Amendment No.: \_\_\_\_\_ Issued       Work Change Directive No.: \_\_\_\_\_ Issued
- Change Proposal Not Accepted       Additional information required. See comments.       Cancelled

**CMI/PM Comments:**

**Response by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

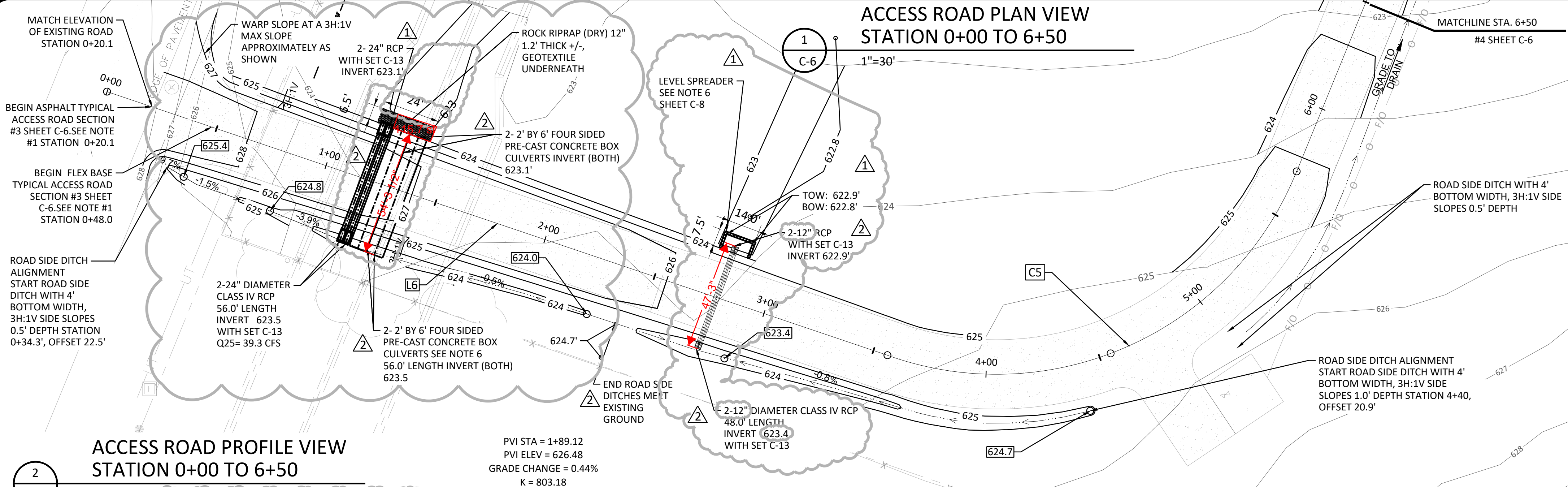
### Response to Comment on CP0007A

- Provide additional breakdown and details of equipment use. (page 5)
  - Equipment hours/usage has been discussed with Thad Purcell and revisions were made as needed.
- The geogrid and road base are included in the original contract and not part of this change.
  - I have removed what was included at the 24" RCP location.
- The equipment quantities on this sheet do not match the equipment worksheet.
  - Corrected
- 4% markup for insurance and bonds is excessive. Provide actual cost per SC 11.5.1 (page 7).
  - Reduced to 1% for each.
- Provide justification for field engineer and surveyor charge. The proposed culverts install beside the existing that are already in place (page 8).
  - Removed
- Labor burden rate exceeds the allowable per SC 11.5.1
  - Corrected.
- Equipment quantities are excessive. (page 10)
  - Corrected
- Remove project manager charge. (page 11)
  - Removed.

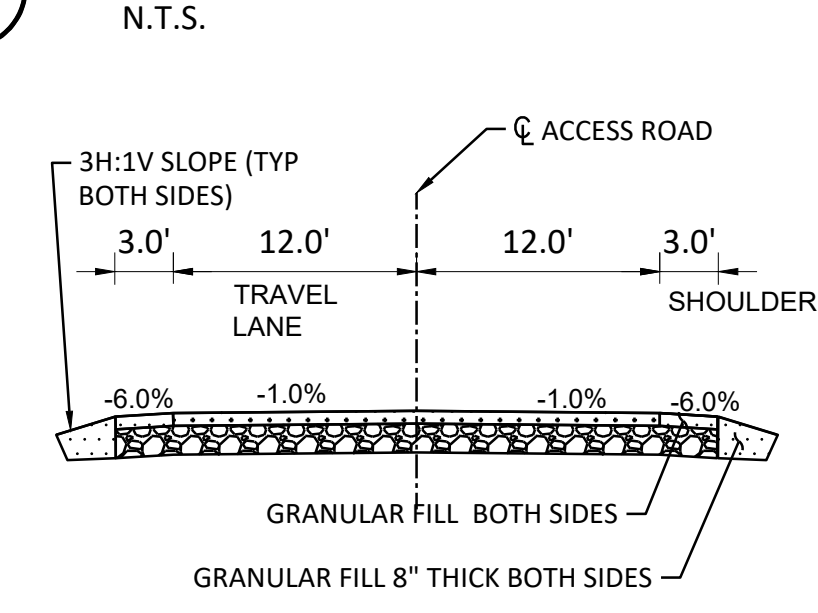
	Foreman	Operator 1	Operator 2	Laborer			Excavator	Compactor	Loader	Mini Ex
excavate for box culverts	5.00	5.00		5.00	15.00	3 guys x 10 hrs x .5 day				
Install and Bed	40.00	40.00	40.00	40.00	160.00	4 guys x 10 hrs x 4 days	60.00	20.00	130.00	50.00
Backfill	10.00	10.00	10.00		30.00	3 guys x 10 hrs x 1 day				
Install Geogrid and Road base				0.00	0.00	3 guys x 10 hrs x .5 day				
Install Riprap and Block	30.00	30.00	30.00	30.00	120.00	3 guys x 10 hrs x 3 days				
<b>Total</b>	<b>140.00</b>	<b>140.00</b>	<b>90.00</b>	<b>120.00</b>	<b>490.00</b>					
Excavate for 12" RCP	5.00	5.00		5.00	15.00	3 guys x 10 hrs x .5 day				
Install and Bed	10.00	10.00		10.00	30.00	3 guys x 10 hrs x 1 days				
Backfill	5.00	5.00	5.00	0.00	15.00	3 guys x 10 hrs x .5 day				
Restore road	5.00	5.00	5.00	0.00	15.00	3 guys x 10 hrs x .5 day				
Install SETs	10.00	10.00		10.00	30.00	3 guys x 10 hrs x 1 days				
Install Rip Rap and Block	20.00	20.00		20.00	60.00	3 guys x 10 hrs x 2 days				
<b>Total</b>	<b>140.00</b>	<b>140.00</b>	<b>90.00</b>	<b>120.00</b>	<b>490.00</b>					

<b>Project:</b> _____	<b>Project Number:</b> _____
<b>Owner:</b> Alliance Regional Water Authority	ARWA1B-_____
<b>Contractor:</b> _____	
<b>Engineer:</b> _____	
<b>Request No.:</b> _____	<b>Description:</b> _____
<b>Specification:</b> _____	
<b>Drawing No.:</b> _____	<b>Detail Description:</b> _____
<b>Reference Document:</b>	
<input type="checkbox"/> Request for Information No.: _____	<input type="checkbox"/> Shop Drawing Deviation Request No.: _____
<input type="checkbox"/> Work Change Directive No.: _____	<input type="checkbox"/> Contract Document: _____
<p><i>The Owner requests that the Contractor prepare a Change Proposal for the changes in the Contract Documents described in this Request for a Change Proposal. The compensation offered for this Change Proposal is to be the full, complete, and final compensation for all costs the Contractor may incur as a result of or relating to this change whether said costs are known, unknown, foreseen, or unforeseen at this time, including without limitation, any cost for delay, extended overhead, ripple or impact cost, or any other effect on changed or unchanged Work as a result of this Contract Amendment. Requested changes in Contract Times are to be the complete and final adjustments for direct impacts to the ability of the Contractor to complete the Work within the Contract Times and are the only adjustments to which the Contractor will be entitled. Authorization to proceed with changes must be approved by the Owner in accordance with the Contract Documents.</i></p>	
<b>Owner requests a Change Proposal for the following modifications to the Contract Documents:</b>	
<b>Purpose of Change Proposal:</b>	
<b>Attachments:</b>	
<b>Status:</b>	
<input type="checkbox"/> Change Proposal No.: _____ Received	<input type="checkbox"/> Cancelled
<b>Action Required:</b>	
<input type="checkbox"/> Documents Filed	<input type="checkbox"/> Cancelled
<b>Requested by:</b> _____	<b>Date:</b> _____

**ACCESS ROAD PLAN VIEW  
STATION 0+00 TO 6+50**

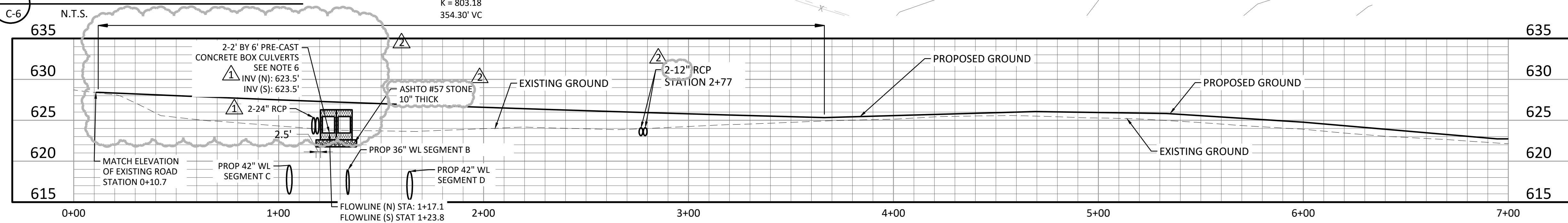


**ACCESS ROAD TYPICAL SECTION**

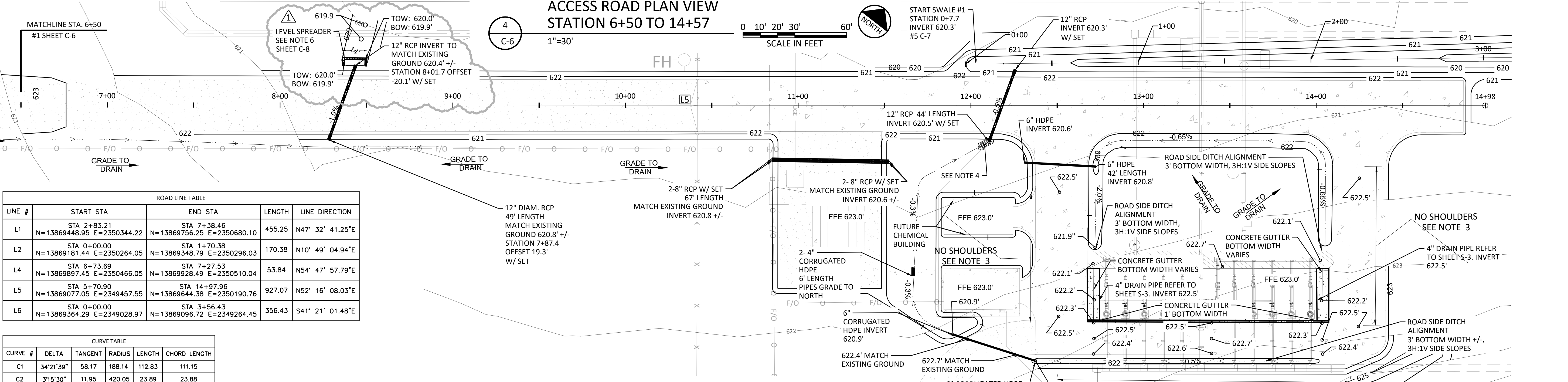


- NOTE:**
- REFER TO SHEET C-1 FOR PAVEMENT TYPES AND REFER TO SHEET C-15 FOR MATERIAL THICKNESS AND QUALITIES WITHIN TRAVEL LANES. USE TRAVEL LANE SLOPES AND SHOULDER SLOPES FOR ALL TYPICAL SECTIONS UNLESS NOTED IN PLAN VIEW. SLOPES TO DRAIN AWAY FROM CROWN.
  - NO SHOULDERS IN THIS REGION AND REDUCE TRAVEL LANE WIDTH TO 10'.
  - NO SHOULDERS IN THIS REGION AND INCREASE TRAVEL LANE WIDTH TO 15'.
  - AREA SPECIFIED TO BE ROCK LINED FROM OUTLET OF CHLORINE ANALYZER DISCHARGE TO PROPOSED SET. ROCK SHALL BE PLACED TO MATCH FLOWLINE OF PROPOSED GRADE.
  - DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.
  - CONTRACTOR TO ENSURE PROCURED CULVERT IS REINFORCED AND MEETS HS-20 LOADING.

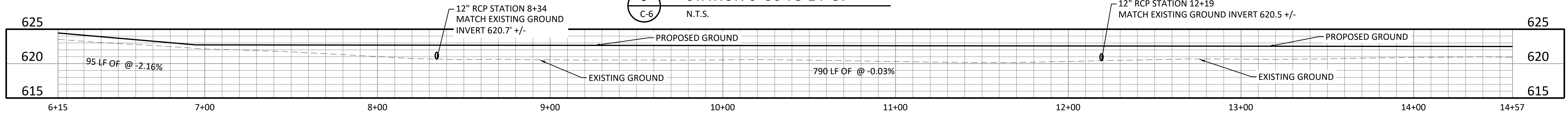
**ACCESS ROAD PROFILE VIEW  
STATION 0+00 TO 6+50**



**ACCESS ROAD PLAN VIEW  
STATION 6+50 TO 14+57**



**ACCESS ROAD PROFILE VIEW  
STATION 6+50 TO 14+57**



LINE #	START STA	END STA	LENGTH	LINE DIRECTION
L1	STA 2+83.21 N=13869448.95 E=2350344.22	STA 7+38.46 N=13869756.25 E=2350680.10	455.25	N47° 32' 41.25"E
L2	STA 0+00.00 N=13869181.44 E=2350264.05	STA 1+70.38 N=13869348.79 E=2350296.03	170.38	N10° 49' 04.94"E
L4	STA 6+73.69 N=13869897.45 E=2350466.05	STA 7+27.53 N=13869928.49 E=2350510.04	53.84	N54° 47' 57.79"E
L5	STA 5+70.90 N=13869077.05 E=2349457.55	STA 14+97.96 N=13869644.38 E=2350190.76	927.07	N52° 16' 08.03"E
L6	STA 0+00.00 N=13869364.29 E=2349028.97	STA 3+56.43 N=13869096.72 E=2349264.45	356.43	S41° 21' 01.48"E

CURVE #	DELTA	TANGENT	RADIUS	LENGTH	CHORD LENGTH
C1	34°21'39"	58.17	188.14	112.83	111.15
C2	3°15'30"	11.95	420.05	23.89	23.88
C5	87°46'28"	134.66	140.00	214.47	194.10

ISSUED FOR CONSTRUCTION ON 09/17/2021

Freese and Nichols, Inc. Texas Registered Engineering Firm F-2144

**FRESE & NICHOLS**  
1251 Sadler Dr., Building 1 Suite 1150  
San Marcos, Texas 78666  
Phone - (512) 213-3200  
Web - www.freese.com

ALLIANCE REGIONAL WATER AUTHORITY  
**PHASE 1B BOOSTER PUMP STATION & DELIVERY POINTS**  
STORMWATER

PROPOSED GRADING ACCESS ROAD

NO.	ISSUE	DATE	DESIGNED	DRAWN	CHECKED	FILE NAME
1	DESIGNED	10/24/22	GDF	NO	NO	SW-ARW-PL-GRAD02_gdf.dwg
2	DRAWN	7/18/2022	NO	NO	NO	
3	CHECKED	7/15/2021	NO	NO	NO	
4	REVISION					

Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

NO. 0006  
ADDENDUM #4  
VERIFY SCALE 1


SHEET **C-6**

SEQ.

ACAD Ref: 24.Ds (LMS Tech)  
Filename: N:\SW\Drawings\SW-ARW-PL-GRAD02\_gdf.dwg  
Last Saved: 10/24/2022 11:12 AM Saved By: 03688



POTENTIAL CHANGE ORDER

JOB NUMBER: 21026	PROJECT NAME: ARWA1BBPS				
SUB-AGREEMENT NO: Prime Agreement	SUPPLIER/SUBCONTRACTOR: MWH Constructors				ATTENTION:
PCO TITLE: Entry Culverts		PCO NO: PCO-0008	REV: B	DATE: 12-Jun-23	PAGE: 1 of 1

Proposed Change Description/Clarifications:

For Attention/Action
  As Agreed/Requested
  For Information Only

**Forward Price Lump Sum Pricing (Prime Agreement GC Section 11.4 Method B)**  
 Total Lump Sum Price for this Change \$ -

**Force Account Pricing Summary (Prime Agreement GC Section 11.4 Method C)**

Description	Direct Labor (burdened)	Indirect Labor (burdened)	Materials	Direct Equipment	Subcontract	Indirect GC's	TOTAL:
Direct Costs	\$ 33,927.30		\$ 78,929.50	\$ 27,316.09	\$ -		
Indirect Costs - Labor & General Conditions		\$ -				\$ -	
<b>SUBTOTAL OF DIRECT AND INDIRECT COSTS:</b>	\$ 33,927.30	\$ -	\$ 78,929.50	\$ 27,316.09	\$ -	\$ -	
Contractor Markup (15%)	\$ 5,089.10	\$ -	\$ 11,839.43	\$ 4,097.41		\$ -	
Subcontractor Markup (5%)					\$ -		
<b>SUBTOTAL OF ABOVE AND OH&amp;P</b>	\$ 39,016.40	\$ -	\$ 90,768.93	\$ 31,413.50	\$ -	\$ -	
General Insurances (1%)	\$ 390.16	\$ -	\$ 907.69	\$ 314.14	\$ -	\$ -	
Payment and Performance Bonds (1%)	\$ 394.07	\$ -	\$ 916.77	\$ 317.28	\$ -	\$ -	
<b>TOTAL:</b>	\$ 39,800.62	\$ -	\$ 92,593.38	\$ 32,044.91	\$ -	\$ -	\$ 164,438.92

**Schedule Summary**


Schedule Impact?  Yes  No  Unsure      If Yes, Approximate Days Requested \_\_\_\_\_ Days

REFERENCES: \_\_\_\_\_  
 ATTACHMENTS: \_\_\_\_\_ ACTION/RESPONSE REQUIRED BY DATE: 19-Jun-23

MWH Issue Governance this PCO:

Responsibility	Title	Name	Signature	Date
Reviewed By:	Regional Manager	Mike Watson		
Issued By:	Project Manager	Jeff Ripper		

**POTENTIAL CHANGE ORDER**

JOB NUMBER: 21026	PROJECT NAME: Phase 1B Booster Pump Station & Delivery Points				
SUB-AGREEMENT NO: ARWA1BBPS	SUPPLIER/SUBCONTRACTOR: MWH Constructors				ATTENTION: 0
PCO TITLE: Entry Culverts		PCO NO: PCO-0008	REV: B	DATE: 12-Jun-23	PAGE: 1 of 1

Proposed Change Description/Clarifications:

For Attention/Action     
  As Agreed/Requested     
  For Information Only

**PURPOSE:**  
Install additional culverts as required for the City of San Marcos Watershed Protection Plan Phase 2 permit approval.


**REASONING :**  
Requested by ARWA

**SCOPE STATEMENT :**  
Supply and install two 2'x6' four sided pre-cast concrete HS-20 rated box culverts 56LF at ST 1+30 of the BPS access road  
 Addition of one 12" Diameter Class IV RCP 42LF at Station 2+80 of the BPS access road with two 12" SETs  
 Additional bedding, rip rap, and limestone blocks  
Exclusions:  
 Anything not specifically stated above

**REFERENCES:**  
ARWA1BBPS RCP0006 Additional Culverts at BPS Access Road

Total Lump Sum Price for this Change	<b>\$ 164,438.92</b>
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# POTENTIAL CHANGE ORDER

<b>Job Number</b>	<b>Project Name</b>	
21026	ARWA1BBPS	
<b>PCO Title</b>	<b>PCO Number</b>	
Entry Culverts	PCO-0008	


\* For Deductive Changes, Labor Hours are entered as negative hours. All other values remain as positive values.

## DIRECT LABOR WORKSHEET

Item No.	Description	Quantity (Hrs)	Unit	Raw Unit Labor Rate	Burden Factor	Burdened Labor Unit Rate	Total Burdened Labor	Consumables	Total Labor Cost
1.0	<b>Supervision</b>								
2.0	Project Superintendent		MH	70.00	1.15	80.50	\$ -	\$ -	\$ -
3.0	Assistant Superintendent		MH	55.00	1.15	63.25	\$ -	\$ -	\$ -
4.0	General Foreman		MH	50.00	1.15	57.50	\$ -	\$ -	\$ -
5.0	Field Engineer		MH	35.00	1.15	40.25	\$ -	\$ -	\$ -
6.0	Project Engineer		MH	50.00	1.15	57.50	\$ -	\$ -	\$ -
7.0	Safety Manager		MH	60.00	1.15	69.00	\$ -	\$ -	\$ -
8.0	Quality Manager		MH	60.00	1.15	69.00	\$ -	\$ -	\$ -
9.0	Surveyor		MH	25.00	1.15	28.75	\$ -	\$ -	\$ -
10.0	Rod Man		MH	20.00	1.15	23.00	\$ -	\$ -	\$ -
11.0									\$ -
12.0	<b>Carpentry / Form Setting</b>								\$ -
13.0	Carpenter Foreman		MH	35.00	1.15	40.25	\$ -	\$ -	\$ -
14.0	Form Builders / Setters		MH	25.00	1.15	28.75	\$ -	\$ -	\$ -
15.0	Concrete Finisher		MH	30.00	1.15	34.50	\$ -	\$ -	\$ -
16.0	Carpenter		MH	30.00	1.15	34.50	\$ -	\$ -	\$ -
17.0									\$ -
18.0	<b>Mechanical</b>								\$ -
19.0	Pipefitter Foreman	140.00	MH	66.00	1.15	75.90	\$ 10,626.00	\$ 1,062.60	\$ 11,688.60
20.0	Millwright Foreman		MH	45.00	1.15	51.75	\$ -	\$ -	\$ -
21.0	Plumber / Pipefitter		MH	45.00	1.15	51.75	\$ -	\$ -	\$ -
22.0	Millwright		MH	35.00	1.15	40.25	\$ -	\$ -	\$ -
23.0									\$ -
24.0	<b>Laborer</b>								\$ -
25.0	Labor Foreman		MH	25.00	1.15	28.75	\$ -	\$ -	\$ -
26.0	Laborer - Concrete Tender		MH	18.00	1.15	20.70	\$ -	\$ -	\$ -
27.0	Laborer - Pipelayer	120.00	MH	20.00	1.15	23.00	\$ 2,760.00	\$ 276.00	\$ 3,036.00
28.0	Laborer - Utility		MH	17.00	1.15	19.55	\$ -	\$ -	\$ -
29.0	Laborer - Common		MH	15.00	1.15	17.25	\$ -	\$ -	\$ -
30.0									\$ -
31.0	<b>Operators</b>								\$ -
32.0	Crane Operator		MH	50.00	1.15	57.50	\$ -	\$ -	\$ -
33.0	Large Equipment Operator	230.00	MH	66.00	1.15	75.90	\$ 17,457.00	\$ 1,745.70	\$ 19,202.70
34.0	Small Equipment Operator		MH	40.00	1.15	46.00	\$ -	\$ -	\$ -
35.0	Truck Driver		MH	20.00	1.15	23.00	\$ -	\$ -	\$ -
<b>TOTALS</b>		490.00					30,843.00	3,084.30	\$ 33,927.30

TRUE

# POTENTIAL CHANGE ORDER


<b>Job Number</b> 21026	<b>Project Name</b> ARWA1BBPS	
<b>PCO Title</b> Entry Culverts	<b>PCO Number</b> PCO-0008	

\* For Deductive Changes, Materials are entered as negative Quantities. All other values remain as positive values.

## Direct Materials Cost Worksheet

Item No.	Description	Qty	Unit	Non-Taxed Materials Unit Cost	Non-Taxed Materials Extended Cost	Taxed Materials Unit Cost	Taxed Materials Extended Cost	Applied Tax (8.25%)	Total Taxed Materials	Total Materials Cost
1.0	Pea Gravel Bedding	50.00	Ton	\$ 22.53	\$ 1,126.50		\$ -	\$ -	\$ -	\$ 1,126.50
2.0	57 Stone Bedding	150.00	Ton	\$ 22.53	\$ 3,379.50		\$ -	\$ -	\$ -	\$ 3,379.50
3.0	Road Base	50.00	Ton	\$ 13.03	\$ 651.50		\$ -	\$ -	\$ -	\$ 651.50
4.0	2'x6' Box Culverts	112.00	LF	\$ 619.00	\$ 69,328.00		\$ -	\$ -	\$ -	\$ 69,328.00
5.0	12" RCP	42.00	LF	\$ 55.00	\$ 2,310.00		\$ -	\$ -	\$ -	\$ 2,310.00
6.0	12" SETs	2.00	EA	\$ 895.00	\$ 1,790.00		\$ -	\$ -	\$ -	\$ 1,790.00
7.0	Riprap	8.00	Ton	\$ 43.00	\$ 344.00		\$ -	\$ -	\$ -	\$ 344.00
8.0					\$ -		\$ -	\$ -	\$ -	\$ -
9.0					\$ -		\$ -	\$ -	\$ -	\$ -
10.0					\$ -		\$ -	\$ -	\$ -	\$ -
11.0					\$ -		\$ -	\$ -	\$ -	\$ -
12.0					\$ -		\$ -	\$ -	\$ -	\$ -
13.0					\$ -		\$ -	\$ -	\$ -	\$ -
14.0					\$ -		\$ -	\$ -	\$ -	\$ -
15.0					\$ -		\$ -	\$ -	\$ -	\$ -
16.0					\$ -		\$ -	\$ -	\$ -	\$ -
17.0					\$ -		\$ -	\$ -	\$ -	\$ -
18.0					\$ -		\$ -	\$ -	\$ -	\$ -
19.0					\$ -		\$ -	\$ -	\$ -	\$ -
<b>TOTALS</b>					\$ 78,929.50		\$ -	\$ -	\$ -	\$ 78,929.50

# POTENTIAL CHANGE ORDER

<b>Job Number</b>	<b>Project Name</b>		
21026	ARWA1BBPS		
<b>PCO Title</b>	<b>PCO Number</b>		
Entry Culverts	PCO-0008		

\* For Deductive Changes, Equipment Hours are entered as negative Values. All other values remain as positive values.

## Direct Equipment Worksheet

Item	EQUIPMENT DESCRIPTION	Hourly			Weekly Rates			Monthly Rates			Total of Equipment Cost
		Quantity	Unit Rate	Total	Quantity	Unit Rate	Total	Quantity	Unit Rate	Total	
1.0	Rubber Tire Backhoe			\$ -			\$ -			\$ -	\$ -
2.0	Wheel Loader (3 cy)	130.0	\$ 86.29	\$ 11,217.70			\$ -			\$ -	\$ 11,217.70
3.0	Dozer			\$ -			\$ -			\$ -	\$ -
4.0	Compactor	20.0	\$ 109.51	\$ 2,190.20			\$ -			\$ -	\$ 2,190.20
5.0	Air Compressor			\$ -			\$ -			\$ -	\$ -
6.0	Mini-Excavator	50.0	\$ 60.48	\$ 3,024.00			\$ -			\$ -	\$ 3,024.00
7.0	Excavator 78k lb			\$ -			\$ -			\$ -	\$ -
8.0	Excavator 82k lb	60.0	\$ 178.76	\$ 10,725.60			\$ -			\$ -	\$ 10,725.60
9.0	30 Ton Crane			\$ -			\$ -			\$ -	\$ -
10.0	60 Ton Crane			\$ -			\$ -			\$ -	\$ -
11.0	80 Ton Crane			\$ -			\$ -			\$ -	\$ -
12.0	Welding Machine			\$ -			\$ -			\$ -	\$ -
13.0	Pickup Trucks			\$ -			\$ -			\$ -	\$ -
14.0	Equipment Delivery			\$ -			\$ -			\$ -	\$ -
15.0	Warehouse Storage			\$ -			\$ -			\$ -	\$ -
16.0	Jobsite Utilities			\$ -			\$ -			\$ -	\$ -
17.0	Temporary Toilets			\$ -			\$ -	1.0	\$ 158.59	\$ 158.59	\$ 158.59
18.0	Manlift			\$ -			\$ -			\$ -	\$ -
19.0	Lull			\$ -			\$ -			\$ -	\$ -
20.0	Trench Roller			\$ -			\$ -			\$ -	\$ -
21.0	Fuel Surcharge			\$ -			\$ -			\$ -	\$ -
22.0	Trench Box			\$ -			\$ -			\$ -	\$ -
23.0	Dumpster			\$ -			\$ -			\$ -	\$ -
<b>TOTALS</b>				\$ 27,157.50			\$ -			\$ 158.59	\$ 27,316.09

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

**F.3** Discussion and possible approval of Change Proposal #CP009B with MWH Constructors, Inc. for Changes at the Detention Pond Spillway on the Authority's Phase 1B Booster Pump Station and Delivery Points Project. ~ *Graham Moore, P.E., Executive Director*

Background/Information

The final location of the offsite drainage easement changed after final award of the construction contract as the Authority continued negotiations with area landowners. The change in the location of the easement, necessitated changes to the pond outfall structure, change in installation of outfall culverts, including some pond regrading and reworking of the trickle channel

The total cost for adding the culverts is \$113,437.69 with ARWA responsible for \$49,912.58 of this total. The CM&I team went through three iterations of review and negotiations with the contractor to arrive at the value that is presented.

As noted on the previous item, five previous change orders have been approved on this project. Below is an update to approved changes, assuming that CP007B is approved.

<b>Booster Pump Station &amp; Delivery Points Change Orders</b>				
	<b>Total</b>	<b>ARWA Share</b>	<b>GBRA Share</b>	<b>Notes</b>
Original Contract	\$19,759,331.00	\$12,359,243.29	\$7,400,087.71	
CO #1 (Delete Field Office)	\$(23,604.00)	\$(10,324.39)	\$(13,279.61)	Executive Director Approved
CO #2 (Replace BFV w/ Gate Valve)	\$(29,468.29)	\$(12,889.43)	\$(16,578.86)	Executive Director Approved
CO #4 (Add GVs ad DPs)	\$45,815.84	\$45,815.84	\$0	Executive Director Approved
CO #5 (Prep for Maxwell DP)	\$73,915.33	\$73,915.33	\$0	Executive Director Approved
CP007B (Entry Culverts)	\$164,438.92	\$72,353.12	\$92,085.80	
<b>Total Adjusted Contract</b>	<b>\$22,160,928.80</b>	<b>\$12,548,612.76</b>	<b>\$7,462,315.04</b>	
<b>% Increase</b>	<b>1.15%</b>	<b>1.53%</b>	<b>0.84%</b>	

Attachment(s)

- CP009B – Detention Pond Spillway

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

**Technical Committee Decisions Needed:**

- Approval of Change Proposal #CP009B with MWH Constructors, Inc. Changes at the Detention Pond Spillway on the Authority's Phase 1B Booster Pump Station and Delivery Points Project. ~ *Graham Moore, P.E., Executive Director.*

<b>Project:</b> _____ <b>Owner:</b> Alliance Regional Water Authority _____ <b>Contractor:</b> _____ <b>Engineer:</b> _____	<b>Project Number:</b> ARWA1B- _____
<b>Change Proposal No.:</b> _____ <b>Description:</b> _____ <b>Specification:</b> _____ <b>Drawing No.:</b> _____ <b>Drawing Detail No.:</b> _____	
<b>Reference Document:</b> <input type="checkbox"/> Request for a Change Proposal No.: _____ <input type="checkbox"/> Request for Information No.: _____ <input type="checkbox"/> Shop Drawing Deviation Request No.: _____ <input type="checkbox"/> Field Order No.: _____	
<b>Contractor proposes the following modifications to the Contract Documents:</b>     	
<b>Purpose of Change Proposal:</b>     	
<b>Attachments:</b>    	
<b>Requested Action:</b> <input type="checkbox"/> Issue a Field Order <input type="checkbox"/> Issue a Work Change Directive or Change Order for the described changes <b>Basis of Compensation:</b> <input type="checkbox"/> Unit Prices <input type="checkbox"/> Lump Sum calculated using Cost of Work provisions in General Conditions Paragraph 11.5 <input type="checkbox"/> Time and Materials using Cost of Work provisions in General Conditions Paragraph 11.5 <b>Required Documentation:</b> <input type="checkbox"/> Detailed cost breakdown attached showing labor, materials, equipment, and all other costs for this change <input type="checkbox"/> Schedule attached to show impacts and justification for requested change in Contract Times	
<b>Total Change Proposal Amount:</b> _____ <b>Adjustment in Contract Times (days):</b> _____	



<b>Project:</b> _____	<b>Project Number:</b> _____
<b>Owner:</b> Alliance Regional Water Authority	ARWA1B- _____
<b>Contractor:</b> _____	
<b>Engineer:</b> _____	

*The compensation offered for this Change Proposal is the full, complete, and final compensation for all costs the Contractor may incur as a result of or relating to this change whether said costs are known, unknown, foreseen, or unforeseen at this time, including without limitation, any cost for delay, extended overhead, ripple or impact cost, or any other effect on changed or unchanged Work as a result of this Contract Modification. Requested changes in Contract Times are the complete and final adjustments for direct impacts to the ability of the Contractor to complete the Work within the Contract Times and are the only adjustments to which the Contractor is entitled.*

*Except as modified hereby, the Contract Documents and all of the terms and provisions thereof remain in full force and effect.*

**Certified by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**CMI/PM Action:**

- Field Order No.: \_\_\_\_\_ Issued       Change Order No.: \_\_\_\_\_ Issued
- Contract Amendment No.: \_\_\_\_\_ Issued       Work Change Directive No.: \_\_\_\_\_ Issued
- Change Proposal Not Accepted       Additional information required. See comments.       Cancelled

**CMI/PM Comments:**

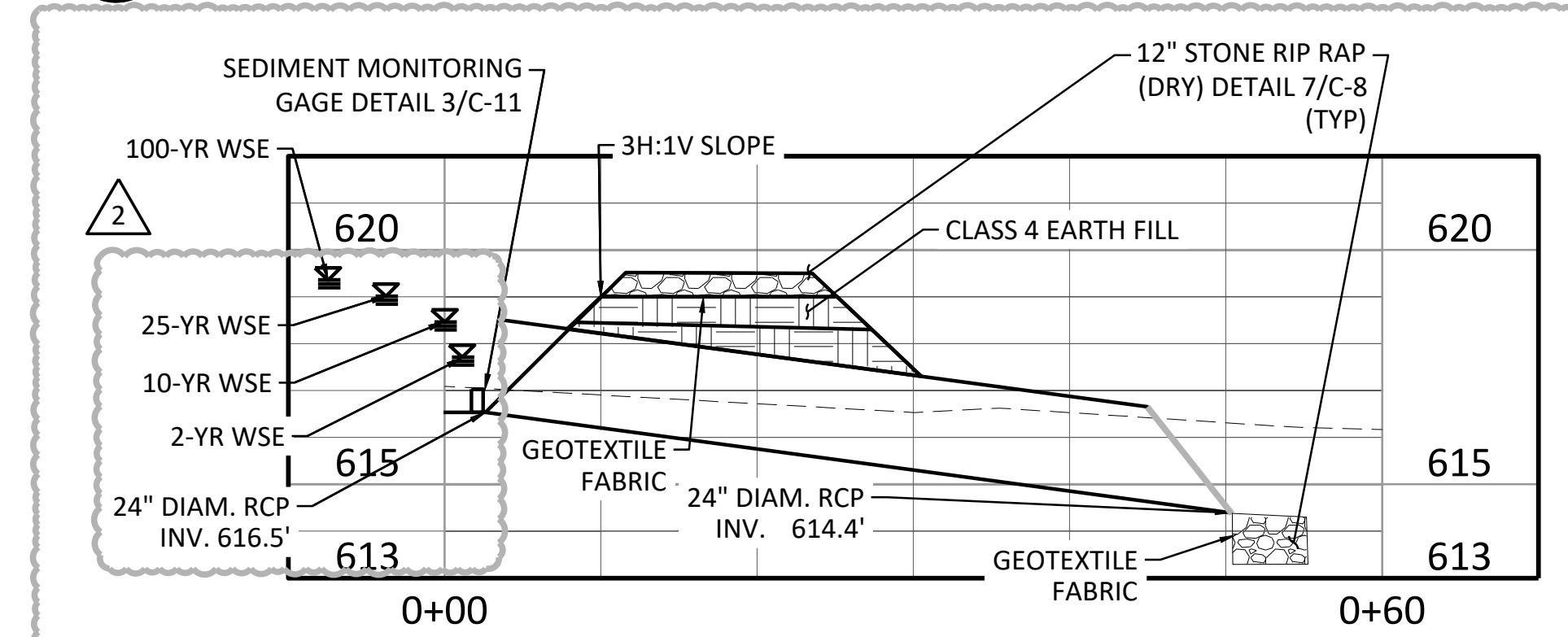
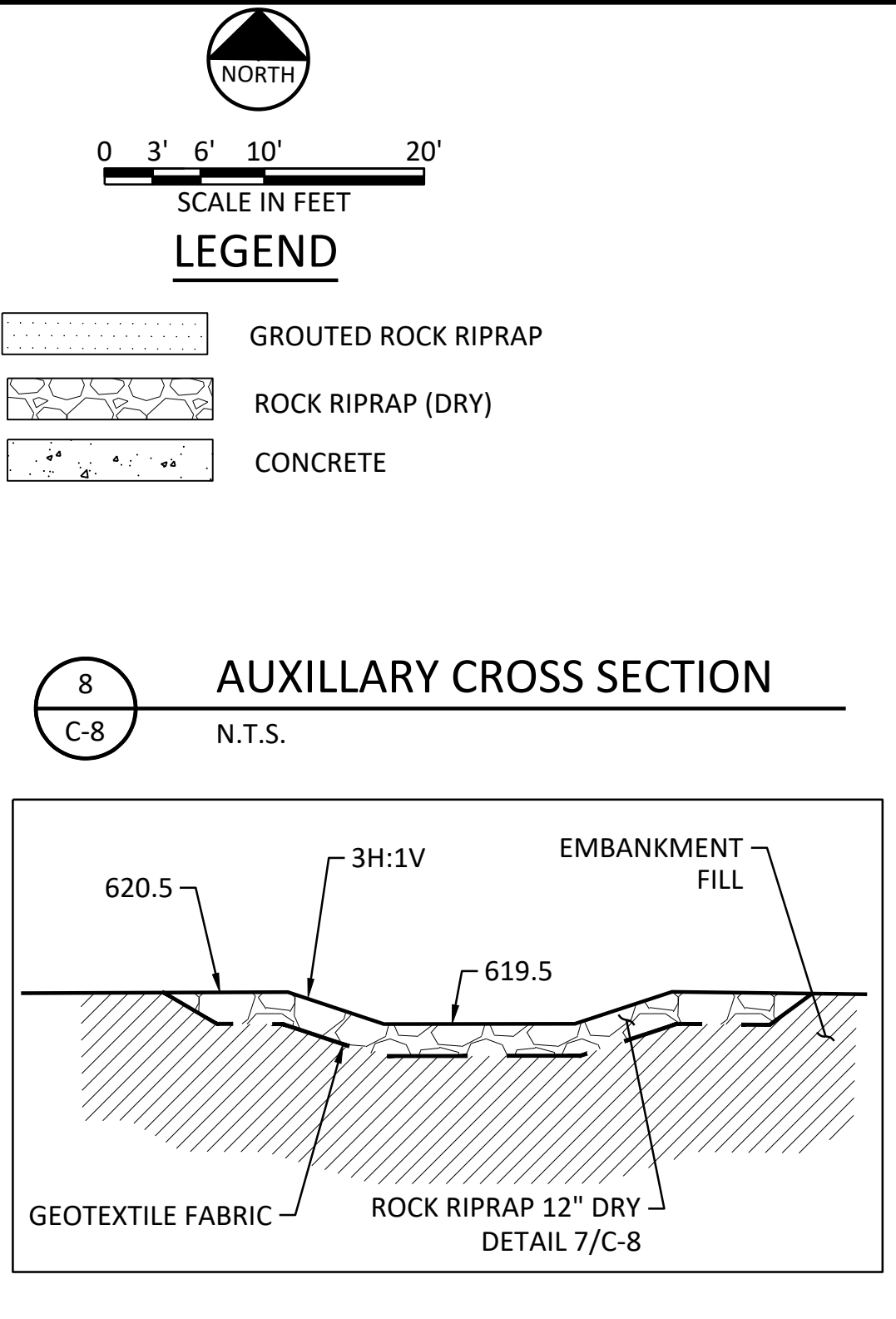
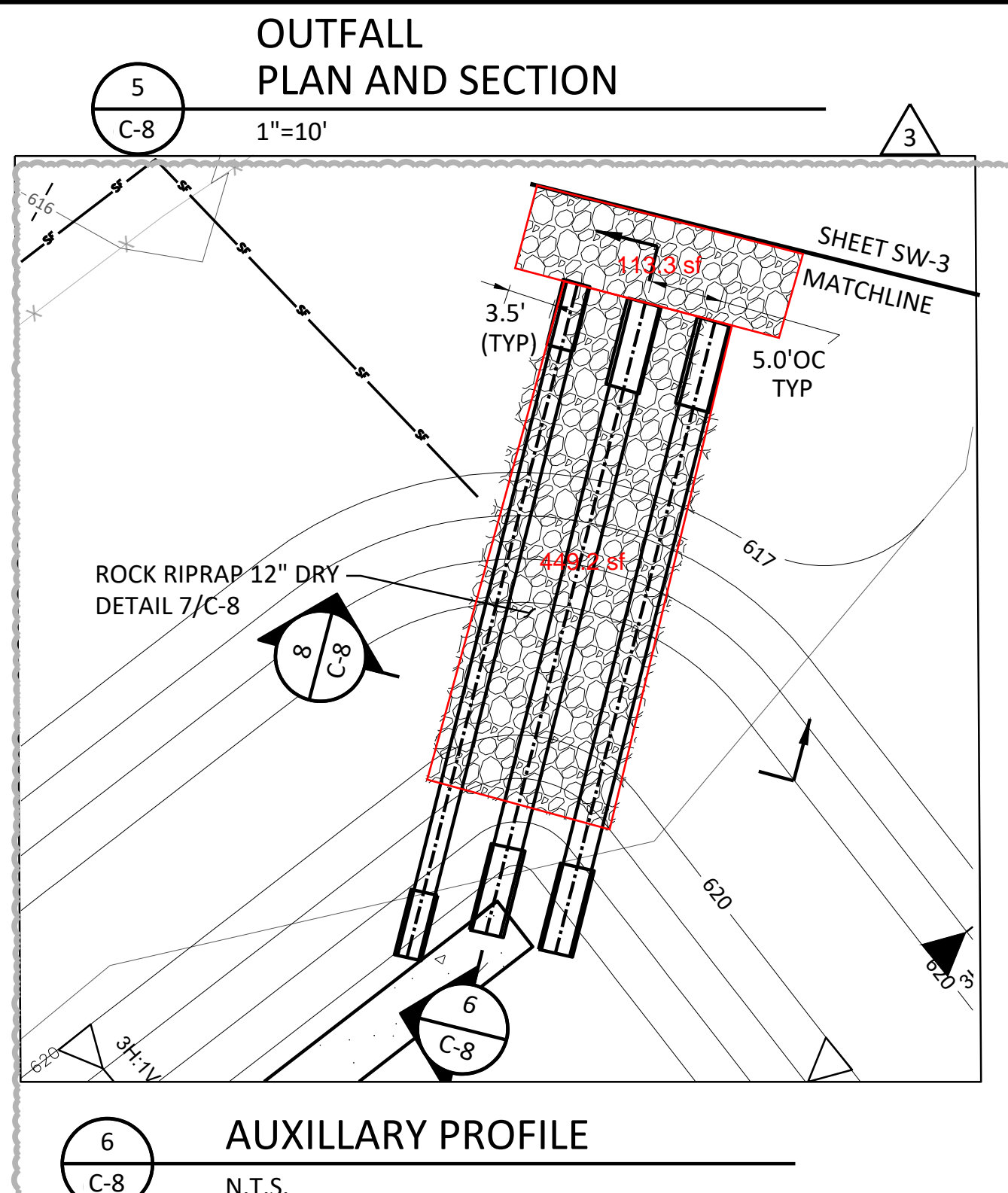
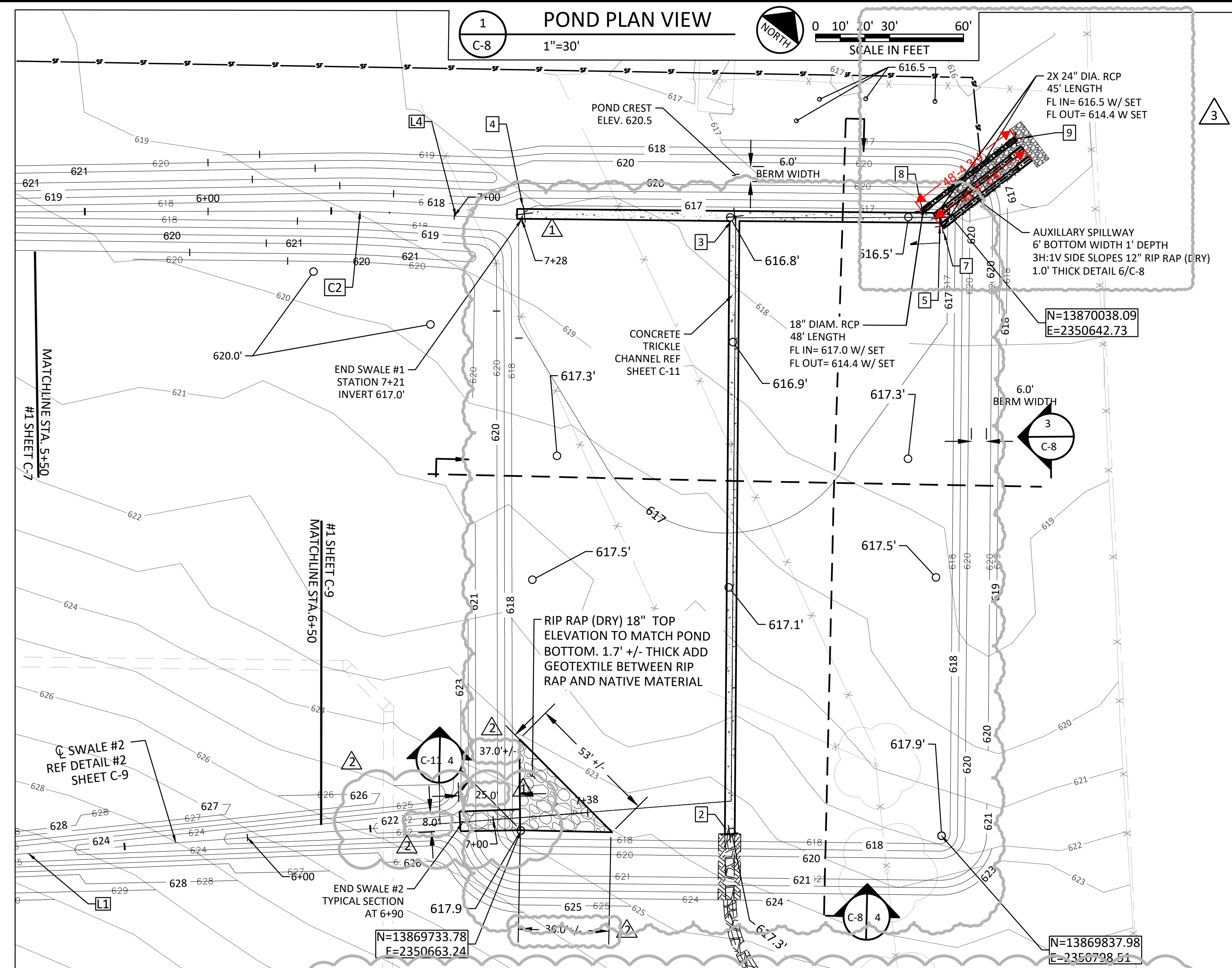
**Response by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Response to Comment on CP0009A

- Roller is not needed for installation of the RCP, bed and backfill is a separate item.
  - Roller hours should not have been allocated to installation. The needed hours have been moved to excavate and prep new location.
- Clean-up and rework are not affected by this change.
  - The detention pond work had to remain idle while the new drainage plan was designed. Numerous rain events have eroded the berms and washed silt into the pond basin. Additionally, grass and weeds have grown in the basin and berms that must be removed.
- Remove superintendent and project engineer. No additional supervision is being brought in and this work will finish before October 12<sup>th</sup>, the date shown in the schedule for substantial completion.
  - The delay in redesign has pushed this work to run concurrently with when supervision is needed at the delivery points. MWH will be bringing in an additional superintendent to manage the detention pond work. The project engineer is being utilized for layout.
- Will the existing reinforcement steel not be utilized?
  - Existing reinforcement will be utilized per conversation with Thad Purcell.
- Remove temporary toilets.
  - Toilets must be provided for the additional time the crew is onsite.
- There is no justification for project management time.
  - Removed.

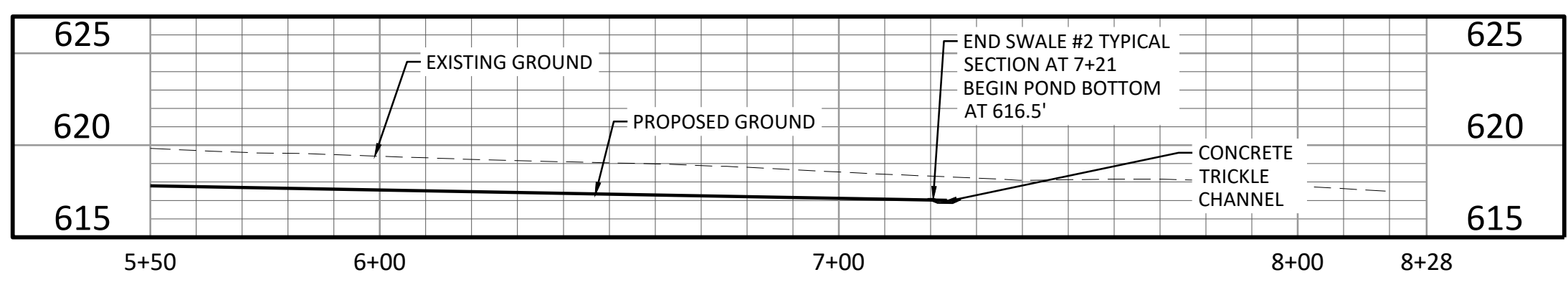
<b>Project:</b> _____	<b>Project Number:</b> _____
<b>Owner:</b> <u>Alliance Regional Water Authority</u>	ARWA1B-_____
<b>Contractor:</b> _____	
<b>Engineer:</b> _____	
<b>Request No.:</b> _____	<b>Description:</b> _____
<b>Specification:</b> _____	
<b>Drawing No.:</b> _____	<b>Detail Description:</b> _____
<b>Reference Document:</b>	
<input type="checkbox"/> Request for Information No.: _____	<input type="checkbox"/> Shop Drawing Deviation Request No.: _____
<input type="checkbox"/> Work Change Directive No.: _____	<input type="checkbox"/> Contract Document: _____
<p><i>The Owner requests that the Contractor prepare a Change Proposal for the changes in the Contract Documents described in this Request for a Change Proposal. The compensation offered for this Change Proposal is to be the full, complete, and final compensation for all costs the Contractor may incur as a result of or relating to this change whether said costs are known, unknown, foreseen, or unforeseen at this time, including without limitation, any cost for delay, extended overhead, ripple or impact cost, or any other effect on changed or unchanged Work as a result of this Contract Amendment. Requested changes in Contract Times are to be the complete and final adjustments for direct impacts to the ability of the Contractor to complete the Work within the Contract Times and are the only adjustments to which the Contractor will be entitled. Authorization to proceed with changes must be approved by the Owner in accordance with the Contract Documents.</i></p>	
<b>Owner requests a Change Proposal for the following modifications to the Contract Documents:</b>	
<b>Purpose of Change Proposal:</b>	
<b>Attachments:</b>	
<b>Status:</b>	
<input type="checkbox"/> Change Proposal No.: _____ Received	<input type="checkbox"/> Cancelled
<b>Action Required:</b>	
<input type="checkbox"/> Documents Filed	<input type="checkbox"/> Cancelled
<b>Requested by:</b> _____	<b>Date:</b> _____

ACAD Ref: 24.Ds (LMS Tech)  
 Filename: N:\SW\Drawings\SW-ARW-PL-GRAD02.dwg  
 Last Saved: 11/18/2022 2:15 PM Saved By: 03688

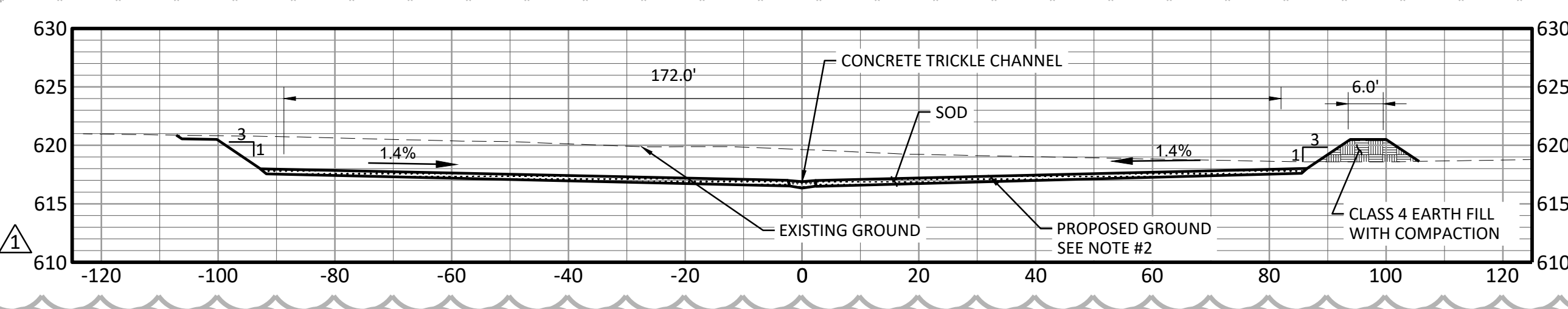


NOTE:  
 1. CONTRACTOR TO ENSURE POND BOTTOM GRADES TOWARDS CONCRETE TRICKLE CHANNEL AS SHOWN. GRADING SHOULD BE FREE OF UNDULATIONS THAT WOULD PROHIBIT POND FROM DRAINING TOWARDS CHANNEL. REFER TO SPOT ELEVATIONS.  
 2. LINE POND BOTTOM WITH SOD, HYDROSEED ALL SLOPES.  
 3. ACCESS TO THE POND FOR MAINTENANCE MUST OCCUR NEAR CROSS SECTION THREE ON THE WEST SIDE OF THE POND. EGRESS CANNOT OCCUR OVER ANY REGION THAT WAS BUILT USING CLASS 4 EARTH MATERIAL AS FILL.  
 4. LEVEL SPREADER TO BE COMPACTED EARTHEN MATERIAL.  
 5. PLUNGE POOL TO BE MAX 6" LOWER THAN ELEVATION AT TOP OF LIMESTONE BLOCKS. LINE PLUNGE POOL WITH 18" STONE RIP RAP (DRY) 1.7' +/- THICK. TOP OF PROP LIMESTONE BLOCKS TO MATCH OR REMAIN BELOW FL OF DETENTION OUTLET PIPES. BLOCKS ARE MINIMUM 1 FOOT THICK BY 2 FEET LONG.  
 6. SPILLWAY WILL BE 0.5' DEEP WITH 3H:1V SIDESLOPES AND A 6' WIDE BOTTOM WIDTH. LINE SPILLWAY WITH 12" STONE RIPRAP (DRY) 1.1' +/- THICK. PLACE GEOTEXTILE BETWEEN CLASS 4 EARTH FILL AND STONE RIP RAP.  
 7. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS, AND PRIOR TO THE RELEASE OF THE CERTIFICATE OF ACCEPTANCE OR OCCUPANCY BY THE PERMIT CENTER, THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DETENTION FACILITY, FILTRATION FACILITIES AND/OR WATER QUALITY FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS. ANY SUCH FACILITIES BUILT WITHIN THE CITY OF SAN MARCOS CITY LIMITS MUST MAINTAIN COMPLIANCE WITH THE CITY'S MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) ORDINANCES. PRIOR TO RELEASE OF THE CERTIFICATE OF ACCEPTANCE OR OCCUPANCY, A CITY EASEMENT MUST BE SHOWN AROUND ALL FACILITIES INCLUDING A MAINTENANCE COVENANT FOR EACH FACILITY WITHIN THE CITY LIMITS.

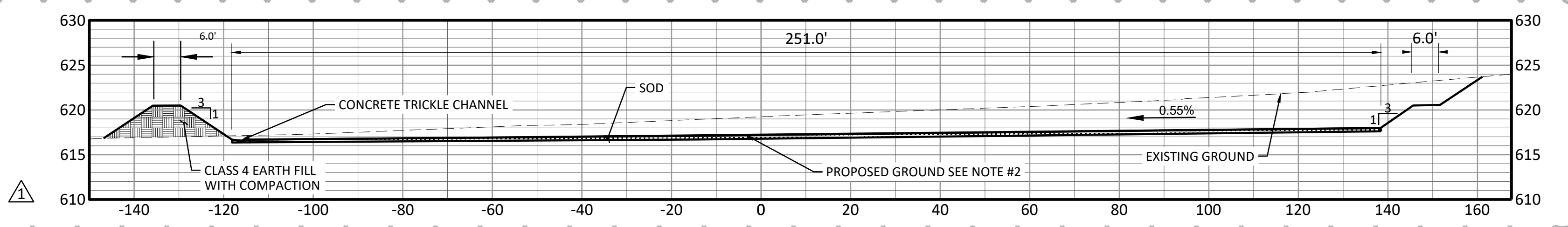
2 SWALE #1 PROFILE VIEW STATION 5+50 TO 7+00  
 N.T.S.



3 SECTION #2 THROUGH POND  
 N.T.S.



4 SECTION #1 THROUGH POND  
 N.T.S.



Level Spreader Calcs

Design Storm	25 YR	100 YR
Q (CFS)	35.73	49.74
Weir Coefficient (C)	2.80	2.80
Length (ft)	31.00	31.00
Depth (ft)	0.26	0.43

POND POINT TABLE

PNT	POINT TABLE	
	NORTHING	EASTING
2	13869785.26	2350730.48
3	13869983.01	2350576.95
4	13869930.89	2350509.23
5	13870034.22	2350642.63
7	13870032.18	2350645.44
8	13870031.93	2350635.13
9	13870078.43	2350646.91

ROCK RIPRAP GRADATION DETAIL

SIZE	RIP RAP GRADATION TABLE	
	ROCK RIPRAP 12" (DRY)	ROCK RIPRAP 18" (DRY)
D <sub>MAX</sub>	13.76	19.04
D <sub>90</sub>	10.14-13.29	15.58-18.36
D <sub>50</sub>	7.31-9.92	11.10-14.21
D <sub>10</sub>	3.39	6.59

NOTE:  
 ALL STONE RIPRAP (DRY) THICKNESS SHALL EQUAL TWO TIMES D<sub>50</sub>.


ALLIANCE REGIONAL WATER AUTHORITY  
 PHASE 1B BOOSTER PUMP STATION & DELIVERY POINTS  
 STORMWATER  
 PROPOSED GRADING SWALES AND PONDS (2 OF 4)

Freese and Nichols, Inc.  
 1251 Sadler Dr., Building 1 Suite 1150  
 San Marcos, Texas 78666  
 Phone - (512) 213-3200  
 Web - www.freese.com

DATE: 11/18/22  
 DESIGNED: GDF  
 DRAWN: GDF  
 CHECKED: GDF  
 FILE NAME: SW-ARW-PL-GRAD02.dwg

NO. ISSUE: 0  
 SHEET: C-8  
 SEQ.

POTENTIAL CHANGE ORDER

JOB NUMBER: 21026	PROJECT NAME: Phase 1B Booster Pump Station & Delivery Points				
SUB-AGREEMENT NO: ARWA1BBPS	SUPPLIER/SUBCONTRACTOR: MWH Constructors				ATTENTION: 0
PCO TITLE: Detention Pond		PCO NO: PCO-0009	REV: B	DATE: 12-Jun-23	PAGE: 1 of 1

Proposed Change Description/Clarifications:

For Attention/Action     
  As Agreed/Requested     
  For Information Only

**PURPOSE:**  
Relocate the detention pond spillway per City of San Marcos Watershed Protection Plan Phase 2 permit approval.

**REASONING :**  
Requested by ARWA

**SCOPE STATEMENT :**  
Install the three RCP segments in the North Corner of the detention pond as shown on the revised C-8 sheet  
 Regrade pond and berms  
 Rework trickle channel forms and rebar  
 Install additional riprap  
**Exclusions:**  
 Anything not specifically stated above

**REFERENCES:**  
ARWA1BBPS RCP0009 BPS Detention Pond Spillway

Total Lump Sum Price for this Change	<b>\$ 113,437.69</b>
--------------------------------------	----------------------

# POTENTIAL CHANGE ORDER

JOB NUMBER: 21026	PROJECT NAME: ARWA1BBPS				
SUB-AGREEMENT NO: Prime Agreement	SUPPLIER/SUBCONTRACTOR: MWH Constructors				ATTENTION:
PCO TITLE: Detention Pond		PCO NO: PCO-0009	REV: B	DATE: 12-Jun-23	PAGE: 1 of 1

Proposed Change Description/Clarifications:

For Attention/Action     
  As Agreed/Requested     
  For Information Only

**Forward Price Lump Sum Pricing (Prime Agreement GC Section 11.4 Method B)**  
 Total Lump Sum Price for this Change \$ -

**Force Account Pricing Summary (Prime Agreement GC Section 11.4 Method C)**

Description	Direct Labor (burdened)	Indirect Labor (burdened)	Materials	Direct Equipment	Subcontract	Indirect GC's	TOTAL:
Direct Costs	\$ 52,510.15		\$ 8,535.00	\$ 35,652.69	\$ -		
Indirect Costs - Labor & General Conditions		\$ -				\$ -	
<b>SUBTOTAL OF DIRECT AND INDIRECT COSTS:</b>	\$ 52,510.15	\$ -	\$ 8,535.00	\$ 35,652.69	\$ -	\$ -	
Contractor Markup (15%)	\$ 7,876.52	\$ -	\$ 1,280.25	\$ 5,347.90		\$ -	
Subcontractor Markup (5%)					\$ -		
<b>SUBTOTAL OF ABOVE AND OH&amp;P</b>	\$ 60,386.67	\$ -	\$ 9,815.25	\$ 41,000.59	\$ -	\$ -	
General Insurances (1%)	\$ 603.87	\$ -	\$ 98.15	\$ 410.01	\$ -	\$ -	
Payment and Performance Bonds (1%)	\$ 609.91	\$ -	\$ 99.13	\$ 414.11	\$ -	\$ -	
<b>TOTAL:</b>	\$ 61,600.44	\$ -	\$ 10,012.54	\$ 41,824.71	\$ -	\$ -	\$ 113,437.69

**Schedule Summary**

Schedule Impact?     Yes     No     Unsure    If Yes, Approximate Days Requested \_\_\_\_\_ Days


REFERENCES: \_\_\_\_\_

ATTACHMENTS: \_\_\_\_\_ ACTION/RESPONSE REQUIRED BY DATE: 19-Jun-23

MWH Issue Governance this PCO:

Responsibility	Title	Name	Signature	Date
Reviewed By:	Regional Manager	Mike Watson		
Issued By:	Project Manager	Jeff Ripper		

# POTENTIAL CHANGE ORDER

<b>Job Number</b>	<b>Project Name</b>	
21026	ARWA1BBPS	
<b>PCO Title</b>	<b>PCO Number</b>	
Detention Pond	PCO-0009	


\* For Deductive Changes, Labor Hours are entered as negative hours. All other values remain as positive values.

## DIRECT LABOR WORKSHEET

Item No.	Description	Quantity (Hrs)	Unit	Raw Unit Labor Rate	Burden Factor	Burdened Labor Unit Rate	Total Burdened Labor	Consumables	Total Labor Cost
1.0	<b>Supervision</b>								
2.0	Project Superintendent		MH	70.00	1.15	80.50	\$ -	\$ -	\$ -
3.0	Assistant Superintendent	170.00	MH	55.00	1.15	63.25	\$ 10,752.50	\$ 1,075.25	\$ 11,827.75
4.0	General Foreman		MH	50.00	1.15	57.50	\$ -	\$ -	\$ -
5.0	Field Engineer		MH	35.00	1.15	40.25	\$ -	\$ -	\$ -
6.0	Project Engineer	8.00	MH	50.00	1.15	57.50	\$ 460.00	\$ 46.00	\$ 506.00
7.0	Safety Manager		MH	60.00	1.15	69.00	\$ -	\$ -	\$ -
8.0	Quality Manager		MH	60.00	1.15	69.00	\$ -	\$ -	\$ -
9.0	Surveyor		MH	25.00	1.15	28.75	\$ -	\$ -	\$ -
10.0	Rod Man		MH	20.00	1.15	23.00	\$ -	\$ -	\$ -
11.0									\$ -
12.0	<b>Carpentry / Form Setting</b>								\$ -
13.0	Carpenter Foreman	180.00	MH	35.00	1.15	40.25	\$ 7,245.00	\$ 724.50	\$ 7,969.50
14.0	Form Builders / Setters	200.00	MH	25.00	1.15	28.75	\$ 5,750.00	\$ 575.00	\$ 6,325.00
15.0	Concrete Finisher		MH	30.00	1.15	34.50	\$ -	\$ -	\$ -
16.0	Carpenter		MH	30.00	1.15	34.50	\$ -	\$ -	\$ -
17.0									\$ -
18.0	<b>Mechanical</b>								\$ -
19.0	Pipefitter Foreman		MH	66.00	1.15	75.90	\$ -	\$ -	\$ -
20.0	Millwright Foreman		MH	45.00	1.15	51.75	\$ -	\$ -	\$ -
21.0	Plumber / Pipefitter		MH	45.00	1.15	51.75	\$ -	\$ -	\$ -
22.0	Millwright		MH	35.00	1.15	40.25	\$ -	\$ -	\$ -
23.0									\$ -
24.0	<b>Laborer</b>								\$ -
25.0	Labor Foreman		MH	25.00	1.15	28.75	\$ -	\$ -	\$ -
26.0	Laborer - Concrete Tender		MH	18.00	1.15	20.70	\$ -	\$ -	\$ -
27.0	Laborer - Pipelayer		MH	20.00	1.15	23.00	\$ -	\$ -	\$ -
28.0	Laborer - Utility		MH	17.00	1.15	19.55	\$ -	\$ -	\$ -
29.0	Laborer - Common		MH	15.00	1.15	17.25	\$ -	\$ -	\$ -
30.0									\$ -
31.0	<b>Operators</b>								\$ -
32.0	Crane Operator		MH	50.00	1.15	57.50	\$ -	\$ -	\$ -
33.0	Large Equipment Operator	310.00	MH	66.00	1.15	75.90	\$ 23,529.00	\$ 2,352.90	\$ 25,881.90
34.0	Small Equipment Operator		MH	40.00	1.15	46.00	\$ -	\$ -	\$ -
35.0	Truck Driver		MH	20.00	1.15	23.00	\$ -	\$ -	\$ -
<b>TOTALS</b>		868.00					47,736.50	4,773.65	\$ 52,510.15

TRUE

# POTENTIAL CHANGE ORDER

<b>Job Number</b> 21026	<b>Project Name</b> ARWA1BBPS	
<b>PCO Title</b> Detention Pond	<b>PCO Number</b> PCO-0009	


\* For Deductive Changes, Materials are entered as negative Quantities. All other values remain as positive values.

## Direct Materials Cost Worksheet

Item No.	Description	Qty	Unit	Non-Taxed Materials Unit Cost	Non-Taxed Materials Extended Cost	Taxed Materials Unit Cost	Taxed Materials Extended Cost	Applied Tax (8.25%)	Total Taxed Materials	Total Materials Cost
1.0	Bedding	75.00	Ton	\$ 22.53	\$ 1,689.75		\$ -	\$ -	\$ -	\$ 1,689.75
2.0	Additional Riprap	50.00	Ton	\$ 43.00	\$ 2,150.00		\$ -	\$ -	\$ -	\$ 2,150.00
3.0	24" RCP	32.00	LF	\$ 74.00	\$ 2,368.00		\$ -	\$ -	\$ -	\$ 2,368.00
4.0	18" RCP	24.00	LF	\$ 54.00	\$ 1,296.00		\$ -	\$ -	\$ -	\$ 1,296.00
5.0	Forming Lumber	125.00	EA	\$ 8.25	\$ 1,031.25		\$ -	\$ -	\$ -	\$ 1,031.25
6.0					\$ -		\$ -	\$ -	\$ -	\$ -
7.0					\$ -		\$ -	\$ -	\$ -	\$ -
8.0					\$ -		\$ -	\$ -	\$ -	\$ -
9.0					\$ -		\$ -	\$ -	\$ -	\$ -
10.0					\$ -		\$ -	\$ -	\$ -	\$ -
11.0					\$ -		\$ -	\$ -	\$ -	\$ -
12.0					\$ -		\$ -	\$ -	\$ -	\$ -
13.0					\$ -		\$ -	\$ -	\$ -	\$ -
14.0					\$ -		\$ -	\$ -	\$ -	\$ -
15.0					\$ -		\$ -	\$ -	\$ -	\$ -
16.0					\$ -		\$ -	\$ -	\$ -	\$ -
17.0					\$ -		\$ -	\$ -	\$ -	\$ -
18.0					\$ -		\$ -	\$ -	\$ -	\$ -
19.0					\$ -		\$ -	\$ -	\$ -	\$ -
<b>TOTALS</b>					\$	8,535.00		\$ -	\$ -	\$ 8,535.00



# POTENTIAL CHANGE ORDER

<b>Job Number</b>	<b>Project Name</b>		
21026	ARWA1BBPS		
<b>PCO Title</b>	<b>PCO Number</b>		
Detention Pond	PCO-0009		

\* For Deductive Changes, Equipment Hours are entered as negative Values. All other values remain as positive values.

## Direct Equipment Worksheet

Item	EQUIPMENT DESCRIPTION	Hourly			Weekly Rates			Monthly Rates			Total of Equipment Cost
		Quantity	Unit Rate	Total	Quantity	Unit Rate	Total	Quantity	Unit Rate	Total	
1.0	Rubber Tire Backhoe			\$ -			\$ -			\$ -	\$ -
2.0	Wheel Loader (3 cy)	150.0	\$ 86.29	\$ 12,943.50			\$ -			\$ -	\$ 12,943.50
3.0	Dozer	40.0	\$ 131.36	\$ 5,254.40			\$ -			\$ -	\$ 5,254.40
4.0	Compactor	60.0	\$ 109.51	\$ 6,570.60			\$ -			\$ -	\$ 6,570.60
5.0	Air Compressor			\$ -			\$ -			\$ -	\$ -
6.0	Mini-Excavator			\$ -			\$ -			\$ -	\$ -
7.0	Excavator 78k lb			\$ -			\$ -			\$ -	\$ -
8.0	Excavator 82k lb	60.0	\$ 178.76	\$ 10,725.60			\$ -			\$ -	\$ 10,725.60
9.0	30 Ton Crane			\$ -			\$ -			\$ -	\$ -
10.0	60 Ton Crane			\$ -			\$ -			\$ -	\$ -
11.0	80 Ton Crane			\$ -			\$ -			\$ -	\$ -
12.0	Welding Machine			\$ -			\$ -			\$ -	\$ -
13.0	Pickup Trucks			\$ -			\$ -			\$ -	\$ -
14.0	Equipment Delivery			\$ -			\$ -			\$ -	\$ -
15.0	Warehouse Storage			\$ -			\$ -			\$ -	\$ -
16.0	Jobsite Utilities			\$ -			\$ -			\$ -	\$ -
17.0	Temporary Toilets			\$ -			\$ -	1.0	\$ 158.59	\$ 158.59	\$ 158.59
18.0	Manlift			\$ -			\$ -			\$ -	\$ -
19.0	Lull			\$ -			\$ -			\$ -	\$ -
20.0	Trench Roller			\$ -			\$ -			\$ -	\$ -
21.0	Fuel Surcharge			\$ -			\$ -			\$ -	\$ -
22.0	Trench Box			\$ -			\$ -			\$ -	\$ -
23.0	Dumpster			\$ -			\$ -			\$ -	\$ -
<b>TOTALS</b>		310		\$ 35,494.10			\$ -			\$ 158.59	\$ 35,652.69

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- F.4** Update and possible direction to Staff regarding the Authority's Phase 1B program.  
~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
- 

Background/Information

Ryan Sowa with Kimley-Horn will update the Committee on their recent activities associated with the Phase 1B program.

Attachment(s)

- Phase 1B Program Update – July 12, 2023
- Kimley-Horn Monthly Summary of Activities for June 2023

**Technical Committee Decisions Needed:**

- None.



# Phase 1B Program Update

Technical Committee Meeting  
July 12<sup>th</sup>, 2023

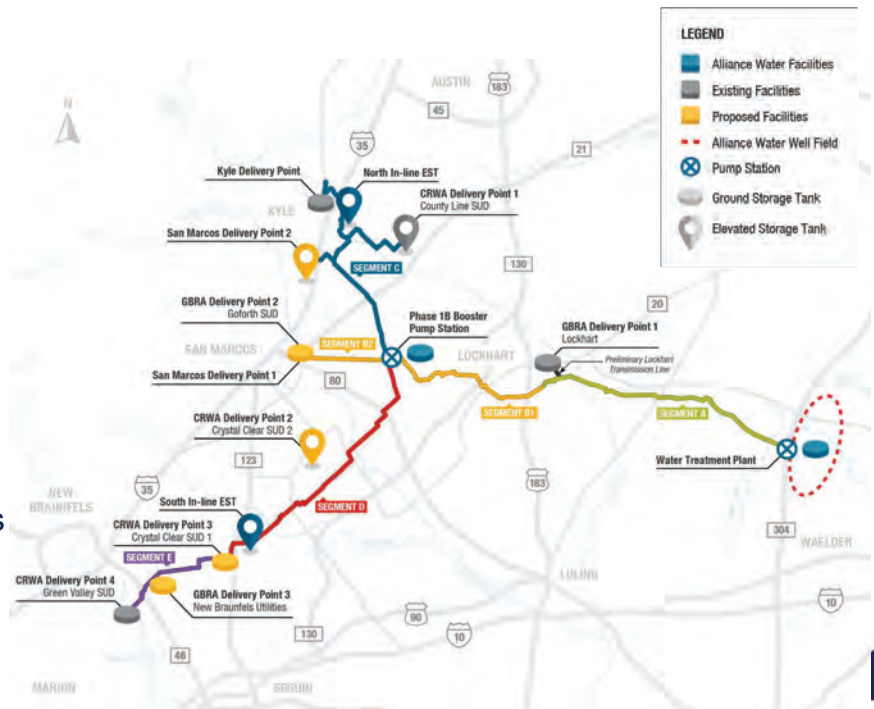


**ALLIANCE WATER**

PRESENTED BY **Kimley»Horn**  
Expect More. Experience Better.

## Ongoing Progress

- ▶ Design Milestone Status
  - Segment C
    - 100% Submittal – July
- ▶ TWDB Reviews
  - Segment E
    - Plans and Specs – Under Review
    - Construction – Release of Funds Request – Under Review
  - South In-line EST
    - EFR - Approved
    - Plans and Specs – Under Review (Routed for Approval)
    - Construction – Release of Funds Request – Under Development



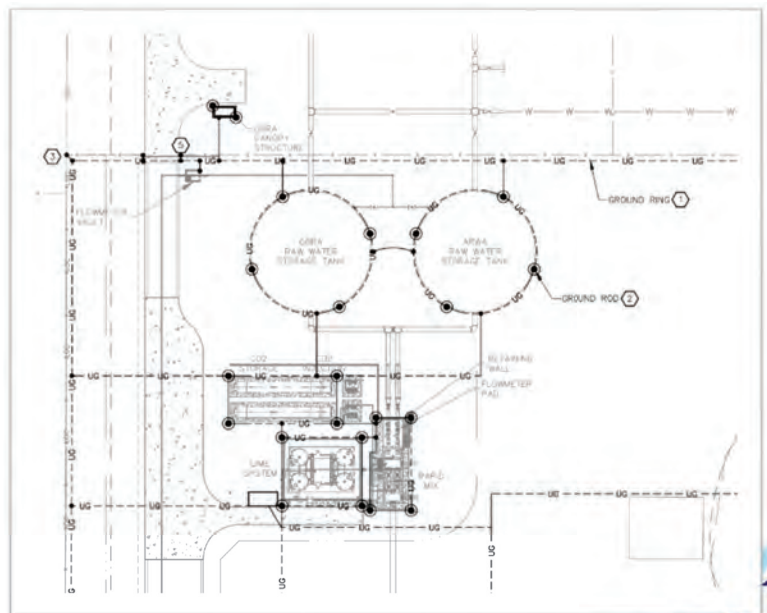
# Pipeline Easement Acquisition Status

Pipeline Segment	Number of Parcels	STATUS						
		(A) Appraisal/Offer in Development	(B) Negotiation	(C) = (A+B) Appraisal / Negotiation	(D) Condemnation in Process	(E) = (C+D) Possession Still Needed	(F) Purchase Agreement Signed / Possession Obtained	Final Settlement Outstanding
A	39	0	0	0	0	0	39	5
B	47	0	0	0	0	0	47	15
D	60	0	0	0	0	0	60	15
C	76	3	8	11	2	13	63	37
E	36	0	0	0	0	0	36	13
Well Field	16	0	4	4	0	4	12	4
<b>Total</b>	<b>274</b>					<b>17</b>	<b>257</b>	<b>89</b>



## Lightning Protection

- ▶ Protected Facilities
  - Water Treatment Plant
  - Well Field
  - Elevated Storage Tanks
  - Booster Pump Station
- ▶ Protection Includes
  - Grounding Electrode Systems
    - All structures
  - Surge Protective Devices
    - All electrical services to each facility



# Lightning Protection

## ▶ Contractor Responsibilities

- Submit shop drawings for review, including proposed systems, personnel, and materials/equipment
- Provide materials and workmanship in accordance with the following standards:
  - NFPA 70 – National Electric Code
  - NFPA 780 – Lightning Protection Code
  - LPI 175 – Lightning Protection Institute Installation Standard
  - UL 96A – Installation Requirements for Lightning Protection Systems
- Employ an independent UL field inspector to review and certify the installation



Questions?

July 7, 2023

## Project Monthly Summary

### June 2023 Tasks Performed:

- Task 2 – Stakeholder Coordination
  - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
  - Continued weekly task coordination with Alliance Water.
  - Prepare and present the Technical Committee Meeting Update.
  - Prepared and presented the Project Advisory Committee Meeting Update.
  - Prepared and presented the Board Meeting Update.
  - Prepared for and held Monthly Status Meeting with Alliance Water.
  
- Task 3 – Budgeting
  - *Coordinate Overall Program Budget projection presentation updates with ARWA staff.*
  - *Prepared and presented updates to the Overall Program Budget projection presentation for the Technical Committee Meeting and Board Meeting.*
  - Prepared and presented the monthly update for the Technical Committee and Board meetings.
  - Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
  
- Task 4 – Schedule
  - Integrated each project schedule into overall Program schedule. Developed and distributed the monthly Program schedule summary.
  
- Task 6 – Data Management
  - Continued tracking the number of easements with final settlement outstanding.
  - Ongoing maintenance of Microsoft SharePoint Online program.
  - Continued updating of web-based GIS for easement acquisition process and alignment changes.
  
- Task 7 – Environmental Management
  - *Continue coordination with the Program Environmental Consultant to address additional comments received from the USACE reviewer for Pipeline Segment C.*
  - Continue coordination with ARWA and the Program Environmental Consultant regarding the burial relocation proceedings.
  - Continued coordination with Program Environmental Consultant concerning the Segment C comments from the United States Army Corps of Engineers.
  - Monthly progress meeting and ongoing coordination with Program Environmental Consultant.

**Alliance Water – Phase 1B Infrastructure – Owner’s Representative**

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- Continued coordination between Program Environmental Consultant and Design Engineers.
- Task 8 – Land Acquisition Management
  - Continued negotiations with remaining Segment C parcels.
  - Coordinated the appraisal process for Segments C and W parcels as needed.
  - Coordinated with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition legal team to address questions that arise as part of the field work coordination process.
  - Performed weekly QC of parcel files in SharePoint, provided comments to Land Acquisition legal team.
  - Weekly coordination meeting with Legal Land Acquisition team to discuss status of easement acquisition proceedings and to provide Program clarification on any questions/requests that have come from landowners.
  - Reviewed Program Appraiser and Program Survey invoices.
  - Continued field work coordination to notify landowners of upcoming field work by consultants as needed.
- Task 9 – Texas Water Development Board Management
  - Coordinated with TWDB staff to track the status of funding release requests as well as plans and specifications under review.
  - Continued coordination with ARWA, GBRA, and TWDB Staff to track all documents currently under review.
- Task 11 – Engineering Design Management
  - Pipelines:
    - Segment A
      - Continue coordination with Design Consultant for construction phase services.
    - Segment B
      - Continued coordination with Design Consultant for construction phase services.
    - Segment C
      - Continued coordination with Design Consultant for final design.
      - Continued coordination with Design Consultant regarding ongoing pipeline alignment considerations.
    - Segment D
      - Continue coordination with Design Consultant for construction phase services.
    - Segment E
      - Continue coordination with Design Consultant for construction phase services.
  - Raw Water Infrastructure:

**Alliance Water – Phase 1B Infrastructure – Owner’s Representative**

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- Continued coordination with Design Consultant for construction phase services.
  - Water Treatment Plant:
    - Continued coordination with Design Consultant for construction phase services.
  - Booster Pump Station:
    - Coordinated with Design Consultant for construction phase services.
  - Inline Elevated Storage Tanks:
    - Continued coordination with Design Consultant for construction phase services for the South Inline Elevated Storage Tank.
    - Continued coordination with Design Consultant for final design development for the North Inline Elevated Storage Tank.
  - Other:
    - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield, booster pump station).
    - Review invoices, schedules, and risk logs for consultants.
  
- Task 14 – Permit Coordination/Tracking
  - Continued Permit coordination with Pipeline Consultants.
  - Continued coordination with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
  - Continued coordination with Caldwell, Guadalupe, and Hays Counties regarding on going permit reviews.
  - Continued General Coordination with GVEC, BBEC, and LCRA.
  - On-going Permit Tracking Log Updates.
  
- Task 15 – Procurement and Construction Phase Services
  - On-going coordination with WTP, RWI, BPS, Segment A, Segment B, Segment D, Segment E, and South Inline EST Design Consultants during the construction phase.
  - Continued coordination with the Construction Management & Inspection team.
  
- Task 16 – Other Services
  - *Responded to City of San Marcos comments for the submitted City of San Marcos Watershed Protection Plan for the parcels to be platted near the Booster Pump Station.*
  - *Evaluated the scope and cost of the Administration Building given feedback from ARWA and GBRA.*
  - *Ongoing GBRA WTP Expansion option and cost projection development.*
  
- Task 18 – Environmental Construction Services
  - Attended construction status meetings.
  - Perform migratory bird nesting surveys.



**July 2023 Projection:**

- Task 2 – Stakeholder Coordination
  - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, GVEC, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
  - Continue weekly task coordination with Alliance Water.
  - Prepare and present the Technical Committee Meeting Update.
  - Prepare and present Project Advisory Committee Meeting Update.
  - Prepare and present Board Meeting Update.
  - Prepare for and hold Monthly Status Meeting with Alliance Water.
  
- Task 3 – Budgeting
  - *Support ARWA staff in the continued budget presentation updates to the Technical Committee and Board Meetings.*
  - Prepare and present the monthly update for the Technical Committee and Board meetings.
  - Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.
  
- Task 4 – Schedule
  - Integrate each project schedule into overall Program schedule. Develop and distribute schedule update and memorandum.
  
- Task 6 – Data Management
  - Continue tracking the number of easements with final settlement outstanding.
  - Continue coordination with ARWA and Construction Management & Inspection Team to integrate construction data collected on the new GIS WebMap.
  - Ongoing maintenance of Microsoft SharePoint Online program.
  - Continue updating of web-based GIS for easement acquisition process and alignment changes.
  
- Task 7 – Environmental Management
  - *Continue coordination with the Program Environmental Consultant in addressing Segment C USACE comments on submitted reports.*
  - *Continue coordination with ARWA and the Program Environmental Consultant regarding the burial relocation proceedings.*
  - Monthly progress meeting and ongoing coordination with Program Environmental Consultant.
  - Continue coordination between Program Environmental Consultant and Design Engineers.
  - Review Program Environmental invoices, schedule, and risk log.
  
- Task 8 – Land Acquisition Management

**Alliance Water – Phase 1B Infrastructure – Owner’s Representative**

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- Coordinate negotiations with remaining Segment C parcels.
- Coordinate the appraisal process for Segment C and W parcels.
- Coordinate with Program Survey Consultant and Design Consultants to address questions that arise as part of the field work coordination process.
- Perform weekly QC of parcel files in SharePoint, provide comments to Legal Land Acquisition team.
- Weekly coordination meeting with Legal Land Acquisition to discuss status of easement acquisition proceedings and to provide Program clarification on any questions/requests that have come from landowners.
- Review Program Appraiser and Program Survey invoices.
- Continue field work coordination to notify landowners of upcoming field work by consultants as needed.
  
- Task 9 – Texas Water Development Board Management
  - *Coordinate with Program PM and Design Consultants to prepare the South Inline EST Construction Phase Release of Funds documentation.*
  - Continue coordination with ARWA, GBRA, and TWDB Staff to track all documents currently under review as well as preparation of funding release requests.
  
- Task 10 – Design Standards
  - Review Construction Standards given questions arising from construction activities and coordinate with the Program Design Consultants as needed.
  
- Task 11 – Engineering Design Management
  - Pipelines:
    - Segment A
      - Continue coordination with Design Consultant for construction phase services.
    - Segment B
      - Continue coordination with Design Consultant for construction phase services.
    - Segment C
      - Continue coordination with Design Consultant for final design.
      - Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
    - Segment D
      - Continue coordination with Design Consultant for construction phase services.
    - Segment E
      - Continue coordination with Design Consultant for construction phase services.
  - Raw Water Infrastructure:

**Alliance Water – Phase 1B Infrastructure – Owner’s Representative**

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- Continue coordination with Design Consultant for construction phase services.
  - Water Treatment Plant:
    - Continue coordination with Design Consultant for construction phase services.
  - Booster Pump Station:
    - Continue coordination with Design Consultant for construction phase services.
  - Inline Elevated Storage Tanks:
    - Continue coordination with Design Consultant for construction phase services for the South Inline Elevated Storage Tank.
    - Continue coordination with Design Consultant for final design development for the North Inline Elevated Storage Tanks.
  - Other:
    - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield, booster pump station).
    - Review invoices, schedules, and risk logs for consultants.
- Task 14 – Permit Coordination/Tracking
  - Continue Permit coordination with Pipeline consultants
  - Coordinate with Hays County concerning the Site Development Permit.
  - General Coordination with TxDOT.
  - Coordinate with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
  - Continue General Coordination with GVEC, BBEC, and LCRA.
  - On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services
  - On-going coordination with WTP, RWI, BPS, Segment A, Segment B, Segment D, Segment E, and South Inline Elevated Storage Tank Design Consultants during the construction phase.
  - On-going coordination with the Construction Management & Inspection team.
- Task 16 – Other Services
  - *Receive and address any remaining comments for the City of San Marcos Watershed Protection Plan for the parcels to be platted near the Booster Pump Station.*
  - *Ongoing GBRA WTP Expansion option and cost projection development.*
- Task 18 – Environmental Construction Services
  - Attend construction status meetings.
  - Perform migratory bird nesting surveys.

**Alliance Water – Phase 1B Infrastructure – Owner’s Representative**

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**Scope Elements Added/Removed:**

None at this time.

**Outstanding Issues/Concerns:**

None at this time.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

**F.5** Discussion of the draft Authority budget for FY 2023-24; and possible direction to staff. ~ *Graham Moore, P.E., Executive Director*

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Status of FY 22-23 Budget

Prior to discussing some items related to next year's budget, below is a brief status on the current year's budget:

- Operations & Maintenance Expenditures are projected to be about \$2.3 million which is \$275,000 (10.7%) below budget.
- Capital Expenditures are projected to be about \$52,500 as compared to the amended budgeted amount of \$247,810.
- Debt service payments will total \$14,438,050 in FY 2022.
- Total expenditures are therefore anticipated to be approximately \$16,700,000.
- Operating Revenue is projected to be approximately \$18 million which is about \$950,000 over the budgeted amount due to higher-than-expected interest income.

FY 23-24 Budget

Attached is the draft budget for FY 2023-24. Staff is scheduling a meeting with the Administrative Committee to discuss the employee costs and to get their recommendation for ultimate incorporation into the budget.

The FY 23-24 budget has the following significant changes from the current year's budget:

- Increased expenditures for Groundwater Royalties associated with Carrizo leases in the Gonzales District reaching their production value based on operations of the system.
- Increased property insurance rates.
- As noted above – the employee expenditures are being discussed with the Administrative Committee.
- Operations and maintenance expenditures based on the initial budget provided by GBRA. Staff is scheduling a meeting with GBRA to discuss the budget in more detail.
- Payments from Sponsors are 4-6% higher than anticipated in previous years due to full loan payments and the increased costs of O&M and royalty payments as a result of the groundwater moving into production.
- The budget does not include any debt service payments for any new debt issued in 2023, Staff recommends that this debt be structured to start payments in the next fiscal year (FY 24-25).

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

Attachment(s)

- Draft – FY 2023-24 Budget

**Technical Committee Decision Needed:**

- Possible direction to Staff.

**Alliance Regional Water Authority**  
**APPENDIX A: FY 2023-24 GENERAL OPERATIONS BUDGET**  
**ATTACHMENT A - DRAFT 2023-06-09**

Expense	Actual FY 2021/22	Approved (as Amended) FY 2022/23	Estimated FY 2022/23	Proposed FY 2023/24
<b>Operations Expenditures</b>				
Royalties & Permit Fees				
Groundwater Royalties	1,269,255.00	1,520,470.50	1,420,000.00	2,853,690.50
Permit Fees	81,900.00	91,000.00	91,000.00	100,100.00
<b>Total Royalties &amp; Permit Fees</b>	<b>1,351,155.00</b>	<b>1,611,470.50</b>	<b>1,511,000.00</b>	<b>2,953,790.50</b>
Contract Services				
Agency Mgmt Public Relations	47,159.00	60,000.00	60,000.00	75,000.00
Contract Services-Lobbyist	45,000.00	60,000.00	60,000.00	45,000.00
Auditing fees	10,930.00	13,000.00	11,250.00	13,000.00
Legal Fees	104,047.00	125,000.00	125,000.00	125,000.00
<b>Total Contract Services</b>	<b>207,136.00</b>	<b>258,000.00</b>	<b>256,250.00</b>	<b>258,000.00</b>
Regional Water Planning Contribution	0.00	1,500.00	1,500.00	1,500.00
Admin Operations				
Dues	6,680.00	9,000.00	2,500.00	4,000.00
Bank Fees	4,424.00	4,000.00	4,000.00	4,000.00
Insurance - Liability, E&O	3,074.00	7,000.00	5,000.00	15,000.00
Non-Project Newspaper Public Notices	100.00	2,000.00	200.00	750.00
Telephone, Telecommunications	1,681.00	3,800.00	1,500.00	1,500.00
Supplies	27,182.00	27,500.00	12,500.00	15,000.00
Admin Operations - Other	0.00	1,500.00	0.00	2,000.00
<b>Total Admin Operations</b>	<b>43,141.00</b>	<b>54,800.00</b>	<b>25,700.00</b>	<b>42,250.00</b>
Travel, Conferences & Meetings	4,967.00	5,000.00	3,500.00	5,000.00
Employee Expenses				
Salaries and wages	336,085.00	372,360.98	340,000.00	390,928.02
Merit Bonus	0.00	0.00	0.00	0.00
Auto Allowance	12,600.00	12,600.00	12,600.00	12,600.00
Phone Allowance	2,700.00	2,700.00	2,700.00	2,700.00
Payroll taxes	24,509.00	27,564.08	24,947.00	27,129.60
Employee Insurance	31,204.00	37,112.40	31,433.00	39,895.83
Retirement	28,221.00	32,951.18	15,815.00	34,529.38
Licenses & Permits	151.00	1,700.00	1,250.00	1,700.00
Mileage Reimbursement	0.00	1,500.00	1,500.00	800.00
Employee Expenses - Other	560.00	4,000.00	1,000.00	4,000.00
<b>Total Employee Expenses</b>	<b>436,030.00</b>	<b>492,489.00</b>	<b>431,245.00</b>	<b>514,280.00</b>
<b>Total Operations Expenditures</b>	<b>2,042,430.00</b>	<b>2,423,260.00</b>	<b>2,229,200.00</b>	<b>3,774,820.00</b>
<b>Facility O&amp;M Expenditures</b>				
General - O&M Expenditures	11,422.00	149,000.00	78,000.00	1,090,414.89
Well Field - O&M Expenditures	0.00	0.00	0.00	0.00
WTP - O&M Expenditures	0.00	0.00	0.00	0.00
Maxwell BPS - O&M Expenditures	0.00	0.00	0.00	0.00
Buda BPS - O&M Expenditures	1,644.00	23,750.00	10,000.00	0.00
Kyle EST - O&M Expenditures	0.00	0.00	0.00	0.00
SH-123 EST - O&M Expenditures	0.00	0.00	0.00	0.00
<b>Total O&amp;M Expenditures</b>	<b>13,066.00</b>	<b>172,750.00</b>	<b>88,000.00</b>	<b>1,090,414.89</b>

**Alliance Regional Water Authority**  
**APPENDIX A: FY 2023-24 GENERAL OPERATIONS BUDGET**  
**ATTACHMENT A - DRAFT 2023-06-09**

	<b>Actual FY 2021/22</b>	<b>Approved (as Amended) FY 2022/23</b>	<b>Estimated FY 2022/23</b>	<b>Proposed FY 2023/24</b>
<b>Capital Expenditures</b>				
Projects-in-Progress (Cash)				
Legal Support	0.00	0.00	0.00	0.00
Hydrogeologic Support	23,198.00	45,000.00	40,000.00	45,000.00
<b>Total Projects-in-Progress (Cash)</b>	<b>23,198.00</b>	<b>45,000.00</b>	<b>40,000.00</b>	<b>45,000.00</b>
Projects-in-Progress Eng. (Cash)				
Engineering - General	42,309.00	202,810.00	12,500.00	75,000.00
Construction Projects	0.00	0.00	0.00	300,000.00
<b>Total Projects-in-Progress Eng. (Cash)</b>	<b>42,309.00</b>	<b>202,810.00</b>	<b>12,500.00</b>	<b>375,000.00</b>
Debt Service Payment				
Series 2015a (CRWA)	249,058.00	251,854.00	251,854.00	249,319.00
Series 2015b (Kyle)	179,928.50	178,608.00	178,608.00	182,116.50
Series 2017a (CRWA)	501,017.50	498,047.50	498,047.50	499,726.50
Series 2017b (Kyle)	455,691.50	452,996.50	452,996.50	454,983.00
Series 2017c (San Marcos)	719,232.00	719,282.00	719,282.00	718,676.50
Series 2017d (Buda)	104,054.00	103,334.00	103,334.00	102,526.00
Series 2019a (CRWA)	1,289,930.50	1,287,130.50	1,287,130.50	1,284,127.50
Series 2019b (Kyle)	1,172,646.50	1,175,574.50	1,175,574.50	1,173,260.50
Series 2019c (San Marcos)	1,899,831.00	1,897,081.00	1,897,081.00	1,893,944.00
Series 2019d (Buda)	271,717.00	269,889.50	269,889.50	268,019.00
Series 2020a (CRWA)	1,728,369.50	1,726,815.50	1,726,815.50	1,729,928.50
Series 2020b (Kyle)	1,573,890.50	1,577,476.50	1,577,476.50	1,575,751.00
Series 2020c (San Marcos)	2,584,310.50	2,581,682.50	2,581,682.50	2,583,616.50
Series 2020d (Buda)	365,842.00	365,470.00	365,470.00	364,447.00
Series 2022a (CRWA)	0.00	375,000.00	418,042.81	899,462.50
Series 2022b (Kyle)	0.00	340,000.00	382,567.50	820,090.00
Series 2022c (San Marcos)	0.00	340,000.00	389,331.92	1,261,039.00
Series 2022d (Buda)	0.00	50,000.00	55,173.02	178,837.50
<b>Total Debt Service Payment</b>	<b>13,095,520.00</b>	<b>14,190,240.00</b>	<b>14,330,360.00</b>	<b>16,239,870.00</b>
<b>Total Capital Expenditures</b>	<b>13,161,030.00</b>	<b>14,438,050.00</b>	<b>14,382,860.00</b>	<b>16,659,870.00</b>
<b>Total Expense</b>	<b>15,216,530.00</b>	<b>17,034,060.00</b>	<b>16,700,060.00</b>	<b>21,525,100.00</b>
<b>Ordinary Income/Expense</b>				
<b>Beginning Unreserved Fund Balance</b>	<b>2,209,973.16</b>	<b>3,312,234.74</b>	<b>3,312,234.74</b>	<b>4,607,010.00</b>
<b>Revenue</b>				
Project Contribution				
City of San Marcos	6,135,730.00	6,524,195.50	6,524,195.50	8,515,621.10
City of Kyle	4,114,580.00	4,499,330.50	4,499,330.50	5,573,898.87
City of Buda	873,690.00	928,393.50	928,393.50	1,609,471.50
Canyon Regional Water Authority	4,571,520.00	4,988,322.50	4,988,322.50	6,275,114.42
Project Contribution - Other	38,149.00	35,000.00	31,500.00	30,000.00
<b>Total Project Contribution</b>	<b>15,733,669.00</b>	<b>16,975,242.00</b>	<b>16,971,742.00</b>	<b>22,004,105.89</b>
TexStar Interest Revenue				
City of San Marcos	217,337.00	21,500.00	350,000.00	120,000.00
City of Kyle	170,371.00	16,900.00	275,000.00	85,000.00
City of Buda	30,788.00	3,050.00	40,000.00	14,000.00
Canyon Regional Water Authority	187,216.00	18,500.00	305,000.00	100,000.00
TexStar Interest Revenue - Other	0.00	0.00	0.00	0.00
<b>Total TexStar Interest Revenue</b>	<b>605,712.00</b>	<b>59,950.00</b>	<b>970,000.00</b>	<b>319,000.00</b>
Broadway Interest Revenue				
City of San Marcos	3,808.00	1,250.00	12,000.00	6,000.00
City of Kyle	2,624.00	980.00	18,500.00	9,250.00
City of Buda	428.00	175.00	2,100.00	1,050.00
Canyon Regional Water Authority	3,158.00	1,075.00	20,500.00	10,250.00
Broadway Interest Revenue - Other	0.00	0.00	0.00	0.00
<b>Total Broadway Interest Income</b>	<b>10,018.00</b>	<b>3,480.00</b>	<b>53,100.00</b>	<b>26,550.00</b>
<b>Total Operating Revenue</b>	<b>16,349,400.00</b>	<b>17,038,670.00</b>	<b>17,994,840.00</b>	<b>22,349,660.00</b>
<b>Total Funds Available</b>	<b>18,559,373.16</b>	<b>20,350,904.74</b>	<b>21,307,074.74</b>	<b>26,956,670.00</b>
<b>Net Income</b>	<b>1,132,870.00</b>	<b>4,610.00</b>	<b>1,294,780.00</b>	<b>824,560.00</b>
<b>Ending Unreserved Balance</b>	<b>3,312,234.74</b>	<b>3,316,840.00</b>	<b>4,607,010.00</b>	<b>5,431,570.00</b>
<b>Fund Balance as Percentage of Operating</b>	<b>161.14%</b>	<b>127.77%</b>	<b>198.82%</b>	<b>111.64%</b>



**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- F.6** Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities.  
~ *Graham Moore, P.E., Executive Director*
- 

Gonzales County Underground Water Conservation District (GCUWCD)

The GCUWCD is scheduled to meet on July 11th.

Plum Creek Conservation District (PCCD)

The PCCD is scheduled to meet on July 18th.

Groundwater Management Area 13

No update.

Region L Planning Group

No update.

Guadalupe-Blanco River Authority; Hays County Activities; CAPCOG Activities

No update.

**Technical Committee decision needed:**

- None.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- G. EXECUTIVE DIRECTOR REPORT** - Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director*

Consultant Invoices Paid

- Below are reports on the FY 22-23 consultant invoices paid in June.

**FY 22-23 CONSULTANT INVOICES PAID IN JUNE 2023**

<b>Consultant</b>	<b>Total Authorized</b>	<b>Current Invoice</b>	<b>Invoiced-to-Date</b>	<b>% of Contract Invoiced</b>	<b>Remaining</b>	<b>Notes/Anomalies</b>
RW Harden	\$30,000.00	\$0.00	\$18,389.94	61%	\$11,610.06	
Kent Alan Sick - ROW Legal	\$10,000.00	\$2,080.00	\$3,813.46	38%	\$6,186.54	
Armstrong, Vaughan & Associates, P.C.	\$11,250.00	\$0.00	\$11,250.00	100%	\$0.00	
J.R. Tolles & Associates, Inc.	\$265,000.00	\$23,499.00	\$180,741.00	68%	\$84,259.00	
Lloyd Gosselink Rochelle & Townsend	\$125,000.00	\$4,200.44	\$63,911.00	51%	\$61,089.00	
CD&P - Public Relations	\$60,000.00	\$13,774.50	\$27,649.33	46%	\$32,350.67	
Schlueter Group of Texas, LLC	\$60,000.00	\$5,000.00	\$45,000.00	75%	\$15,000.00	
Texas Land & Right of Way Company, LLC	\$20,000.00	\$0.00	\$15,934.00	80%	\$4,066.00	
AECOM - Blanco Basin WW Study	\$4,701.00	\$0.00	\$1,550.00	33%	\$3,151.00	
Braun Intertec - Lead & Asbestos Assessment	\$4,750.00	\$0.00	\$0.00	0%	\$4,750.00	
GBRA - O&M	\$68,035.36	\$17,008.84	\$17,008.84	25%	\$51,026.52	
<b>Total</b>	<b>\$658,736.36</b>	<b>\$65,562.78</b>	<b>\$385,247.57</b>		<b>\$273,488.79</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

Phase 1B Invoices Paid

- Below are reports on the FY 22-23 consultant invoices paid in June.

**PHASE 1B FY 20-21 CONSULTANT INVOICES PAID IN JUNE 2023**

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/ Anomalies
Kimley-Horn Ph 1B Owner's Rep WO6	\$852,425.41	\$0.00	\$831,984.75	98%	\$20,440.66	
Kimley-Horn Ph 1B Owner's Rep WO7	\$1,622,371.00	\$95,062.89	\$185,040.54	11%	\$1,437,330.46	
Blanton - Environmental	\$332,142.56	\$0.00	\$91,761.65	28%	\$240,380.91	
LAN - Segment A Construction	\$407,524.48	\$0.00	\$63,236.69	16%	\$344,287.79	
KFA - Segment B	\$16,061.27	\$0.00	\$1,327.50	8%	\$14,733.77	
KFA - Segment B Construction	\$383,343.98	\$0.00	\$49,501.70	13%	\$333,842.28	
BGE - Segment C Prelim	\$15,099.24	\$0.00	\$0.00	0%	\$15,099.24	
BGE - Segment C	\$228,583.98	\$0.00	\$91,383.80	40%	\$137,200.18	
FNI - Segment D Prelim	\$61,533.66	\$0.00	\$0.00	0%	\$61,533.66	
FNI - Segment D Final	\$10.96	\$0.00	\$0.00	0%	\$10.96	
FNI - Segment D Construction	\$447,846.01	\$0.00	\$140,784.63	31%	\$307,061.38	
Walker - Segment E Prelim	\$26,842.82	\$0.00	\$0.00	0%	\$26,842.82	
Walker - Segment E Final	\$147,213.56	\$0.00	\$115,572.82	79%	\$31,640.74	
Walker - Segment E Construction	\$412,264.20	\$0.00	\$30,153.33	7%	\$382,110.87	
DTR&G	\$1,750,000.00	\$115,108.62	\$1,322,501.30	76%	\$427,498.70	
CBRE - Appraisals	\$326,140.00	\$0.00	\$97,780.00	30%	\$228,360.00	
STV / CP&Y - Survey	\$534,955.50	\$0.00	\$162,307.00	30%	\$372,648.50	
LNV - RWI	\$136,157.50	\$0.00	\$0.00	0%	\$136,157.50	
FNI - BPS Final	\$206,219.73	\$0.00	\$29,311.55	14%	\$176,908.18	
Plummer - Inline Elevated Tank Final	\$211,718.82	\$0.00	\$114,415.27	54%	\$97,303.55	
Plummer - Inline Elevated Tank Construction	\$148,208.00	\$54,239.00	\$4,764.48	3%	\$143,443.52	
Pape-Dawson - CM&I WO#6	\$2,474,241.68	\$0.00	\$1,466,354.74	59%	\$1,007,886.94	
Pape-Dawson - CM&I WO#7	\$6,437,459.00	\$506,187.82	\$0.00	0%	\$6,437,459.00	
Walker Partners - WTP CA Svcs	\$1,032,579.41	\$0.00	\$157,226.19	15%	\$875,353.22	
LNV/Ardurura - RWI CA Svcs	\$262,885.25	\$0.00	\$27,508.90	10%	\$235,376.35	
FNI - BPS CA Svcs	\$291,638.01	\$0.00	\$127,257.01	44%	\$164,381.00	
CP&Y - SCADA Programming Svcs	\$563,962.49	\$0.00	\$184,755.46	33%	\$379,207.03	
HVJ - Materials Testing (WTP)	\$346,373.75	\$0.00	\$72,511.00	21%	\$273,862.75	
HVJ - Materials Testing (BPS)	\$63,844.25	\$0.00	\$19,427.00	30%	\$44,417.25	
HVJ - Materials Testing (Segment A)	\$730,665.00	\$0.00	\$204,853.75	28%	\$525,811.25	
HVJ - Materials Testing (Segment B)	\$399,471.28	\$0.00	\$176,343.99	44%	\$223,127.29	
HVJ - Materials Testing (Segment D)	\$489,949.00	\$0.00	\$39,750.63	8%	\$450,198.37	
HVJ - Materials Testing (Segment E)	\$392,695.00	\$0.00	\$1,499.75	0%	\$391,195.25	
HVJ - Materials Testing (S Inline EST)	\$158,361.00	\$0.00	\$1,759.00	1%	\$156,602.00	
<b>Total</b>	<b>\$21,910,787.80</b>	<b>\$770,598.33</b>	<b>\$5,811,074.43</b>	<b>27%</b>	<b>\$16,099,713.37</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

Phase 1B Consultant Change Orders

- Below are reports on the FY 22-23 consultant invoices approved in June.

<b>CHANGE ORDERS APPROVED IN JUNE 2023</b>				
<b>Consultant</b>	<b>Original Authorization</b>	<b>Change Orders to Date</b>	<b>Change Order Approved this Month</b>	<b>New Total Contract Amount</b>
Freese & Nichols: 1B BPS & DP Prelim	\$ 771,617.00	\$ 44,408.00	\$ -	\$ 816,025.00
CP&Y: Ph 1B Program Survey	\$ 3,375,780.00	\$ 83,500.00	\$ -	\$ 3,459,280.00
Freese & Nichols: 1B Segment D (Final)	\$ 1,999,464.00	\$ 418,373.96	\$ -	\$ 2,417,837.96
LAN: 1B Segment A Final Design	\$ 1,903,077.00	\$ 262,949.00	\$ -	\$ 2,166,026.00
Blanton & Assoc: Environmental Invest.	\$ 1,398,775.00	\$ 150,703.00	\$ -	\$ 1,549,478.00
K Friese & Assoc: 1B Seg B Final Design	\$ 1,830,994.00	\$ 334,387.13	\$ -	\$ 2,165,381.13
LAN: 1A Seg B Const Admin	\$ 108,860.01	\$ 6,204.04	\$ -	\$ 115,064.05
LNV: 1B Raw Water (Design)	\$ 1,418,700.00	\$ 107,570.00	\$ -	\$ 1,526,270.00
Walker Partners: 1B Seg E (Final)	\$ 1,190,421.00	\$ 307,759.11	\$ -	\$ 1,477,049.00
BGE: 1B Segment C Final	\$ 2,688,310.00	\$ 702,306.00	\$ -	\$ 3,390,616.00
Freese & Nichols: 1B BPS & DP Final	\$ 1,580,519.00	\$ 163,657.00	\$ -	\$ 1,744,176.00
Pape Dawson: CMI	\$ 57,520.00	\$ 43,080.00	\$ -	\$ 100,600.00
Walker Partners: WTP (CA Svcs)	\$ 1,638,207.00	\$ 315,541.00	\$ -	\$ 1,953,748.00
Freese & Nichols: 1B BPS & DP (CA Svcs)	\$ 497,224.00	\$ 32,896.00	\$ -	\$ 530,120.00
LAN: 1B Segment A (CA Svcs)	\$ 486,610.00	\$ 25,000.00	\$ -	\$ 511,610.00
LNV: 1B Raw Water (Const Admin)	\$ 210,345.00	\$ 28,500.00	\$ -	\$ 238,845.00
K Friese & Assoc: 1B Seg B CA	\$ 471,544.00	\$ 10,000.00	\$ -	\$ 481,544.00
Alan Plummer: 1B Inline EST Design	\$ 423,526.00	\$ 92,472.00	\$ 92,472.00	\$ 515,998.00

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

Phase 1B Construction Change Orders

- Below are reports on the change orders to date for the Phase 1B construction contracts.

CONSTRUCTION CHANGE ORDER SUMMARY - JUNE 2023							
PROJECT	Original Contract Amount	TOTAL CHANGE ORDERS TO DATE	CURRENT CONTRACT AMOUNT	ARWA SHARE OF CHANGE ORDERS	Exec Director Max Authority	Exec Director Approved Change Orders to Date	Board and/or Tech Cmte Approved Change Order to Date
Water Treatment Plant & Raw Water Infrastructure	\$ 54,349,675.00	\$ 736,813.00	\$ 55,086,488.00	\$ 287,297.22	\$ 516,825.62	\$ 287,297.22	\$ 118,678.52
Booster Pump Station & Delivery Points Contract	\$ 19,759,331.00	\$ 87,158.88	\$ 19,846,489.88	\$ 117,016.35	\$ 247,184.87	\$ 117,016.35	\$ -
Segment A Pipeline	\$ 49,471,384.71	\$ 7,261.88	\$ 49,478,646.59	\$ (40,293.43)	\$ 424,971.08	\$ (40,293.43)	\$ -
Segment B Pipeline	\$ 37,629,104.42	\$ 4,277,025.11	\$ 41,906,129.53	\$ 3,718,543.76	\$ 538,559.55	\$ 5,954.06	\$ 3,712,589.70
Segment D Pipeline	\$ 46,663,969.35	\$ 10,094.36	\$ 46,674,063.71	\$ 10,094.36	\$ 714,892.01	\$ 10,094.36	\$ -
Segment E Pipeline	\$ 27,277,770.46	\$ -	\$ 27,277,770.46	\$ -	\$ 444,033.44	\$ -	\$ -
South Inline EST	\$ 4,638,000.00	\$ -	\$ 4,638,000.00	\$ -	\$ 108,074.94	\$ -	\$ -

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

- H.** COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Committee Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.
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Background/Information

The Committee Members have an opportunity to make announcements or to request that items be added to future Board or Committee agendas.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

I.1 *Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:*

- A. *Water supply partnership options*
  - B. *Groundwater leases*
  - C. *Acquisition of real property for water supply project purposes*
-

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 896 9982 2817; Code: 257788

**I.2** Action from Executive Session on the following matters:

- A. *Water supply partnership options*
  - B. *Groundwater leases*
  - C. *Acquisition of real property for water supply project purposes*
-



**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, July 12th, 2023 at 3:00 P.M.

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**J. ADJOURNMENT**

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