

May 17, 2024

Mr. Guillermo Cuellar, P.E. Assistant Webb County Engineer 1620 Santa Ursula, 2nd Floor Laredo, Texas 78040

Re: Webb County Mangana Hein Road Extension Project

Dear Mr. Cuellar,

Submitted for your use please find closing documents including plan of record drawings for the Mangana Hein Road Extension Project. This project is subject to a one (1) year warranty upon acceptance by Commissioner's Court. We appreciate the opportunity to have assisted the County with this improvement project.

Sincerely,

CRANE ENGINEERING CORP.

Firm # F-3353

Edward D. Garza, P.E., CFM

Principal Engineer

Enclosures

Closing Documents Checklist Public Projects

Date: 5/17/2024

Project: Mangana Hein Road Extension Project

Owner: Webb County

Contractor: Anderson Columbia, Inc.

	Who	Completed
* 1 Engineer's Completion Report	Crane	✓
* 2 Contractor's one (1) year Warranty Letter to Owner	Contractor	Pending
* 3 Contractor's Release of Liens to Developer/Owner	Contractor	Pending
4 As-Builts (PDF)	Crane	✓
5 Punchlist Pre-Final Inspection	Crane	✓
6 Punchlist Final Inspection	Crane	✓
7 Copy of Change Orders	Crane	✓
8 Copy of Field Changes	Crane	✓
9 Test Results	Testing Lab	Pending
10 CCTV Inspection Letter from Environmental Dept.	City	N/A
11 O&M Manual for Irrigation System	Contractor	N/A
12 Copy of bulk water payment receipt	Contractor	N/A
13 Copy of overtime fees & other fees receipt	Contractor	Pending
14 Notice of Termination (NOT)	Contractor	Pending

^{*} Provide all documents as original

Note: All items to be included in

USB Drive

Legend:

✓ Complete
N / A Not Applicable
P Pending



Mr. Guillermo Cuellar, P.E. Assistant Webb County Engineer 1620 Santa Ursula, 2nd Floor Laredo, Texas 78040

Re: Webb County Mangana Hein Road Extension Project

Mr. Cuellar,

In accordance with the contract between Webb County and Anderson Columbia Co., Inc., and pursuant to the specifications in the contract documents, I take this opportunity to file this Completion Report with reference to the above mentioned project as follows:

STATE OF TEXAS §

COUNTY OF WEBB §

This is to certify that I, Edward D. Garza, P.E., Principal Engineer, have inspected the work completed by Anderson Columbia Co., Inc. and found that workmanship and materials supplied are in accordance with the plans and specifications for said project. This certification is subject to acceptance of remaining items required from Contractor and testing lab as shown on closing documents checklist.

SIGNED THIS 17th day of May, 2024.

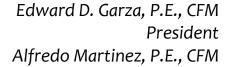
Sincerely,

CRANE ENGINEERING CORP.

Firm # F-3353

Edward D. Garza, P.E., CFM

Principal Engineer





September 8, 2023

Mr. Guillermo Cuellar, P.E. Assistant Webb County Engineer 1620 Santa Ursula, 2nd Floor Laredo, Texas 78040

> Re: Webb County Mangana Hein Road Extension Project Pre-Final Inspection Punchlist

Dear Mr. Cuellar,

A pre-final inspection was conducted on 9/7/23 on the above referenced project. Sign-in sheet was prepared by Mr. Gerardo Rodriguez of Webb County. This inspection applies only to original contract work items from STA 0+00 to 52+68 and does not include additional road construction authorized by Webb County.

The following people were present:

- Guillermo Cuellar, P.E., Assistant County Engineer
- Matthew Martin, Webb County Inspector
- Gerry Rodriguez, Webb County ROW Agent
- Jerry Carrillo, Anderson Columbia
- Salvador Hernandez, Anderson Columbia
- Edward D. Garza, P.E., CFM Crane Engineering
- Alfredo Martinez, P.E., CFM Crane Engineering

The following items require attention from the Contractor before final acceptance can be recommended:

- 1) Establish bar ditches along both sides of road within ROW; Refer to Sheet 13 for detail; Backfill along asphalt edge to eliminate vertical drop from asphalt to subgrade;
- 2) Re-establish gravel filters and silt fence after developing bar ditches; Coordinate with Engineer on relocating up to three (3) gravel filters to drainage crossing at STA 52+67.85;
- 3) Install MBGF and concrete rip-rap at all drainage crossings. Discussion of RFI#6 held on site to confirm understanding of MBGF placement on site; All parties agreed to follow RFI#6 submittal and response; (copy of RFI attached)
- 4) Re-establish wire fence on west side of drainage crossing B at STA 41+21.54; Fence work required on both sides of headwall; H. Hereford property owner.

- 5) Remove exposed steel from back of headwall and provide rub finish at end of headwall to eliminate rough finish at drainage crossing B at STA 41+21.54;
- 6) Drainage crossing C at STA 52+67.85 constructed with box culvert exposed at road finish grade; Review of plans indicate a cover of 5.5" to 8.75" from top of box culvert to asphalt finish grade. Discussion held on reviewing product submittals for box culvert to determine type of box culvert installed.

Note: Crane reviewed product submittal, and box culvert submittal was not submitted by contractor. Crane recommended to perform an as-built survey of drainage crossing C to assess existing condition. Webb County agreed. Discussion held on adding additional concrete rip-rap, gravel filters, and ROW grading at headwall locations.

- 7) Add reflectors at each drainage crossing after MBGF installation;
- 8) Remove TCP upon completion and acceptance of project by Webb County;
- 9) Remove excess material and provide general clean-up;
- 10) Remove excess yellow and white paint material from asphalt surface close to drainage crossing C;
- 11) Provide redlined construction plans to Engineer to reflect any field changes;

Please advise when punchlist items have been completed to schedule final inspection.

Sincerely,

CRANE ENGINEERING CORP.

Firm # F-3353

Edward D. Garza, P.E., CFM

Principal Engineer

Cc: All above

REQUEST FOR INFORMATION

r ioject maine.	Webb County - Mangana Helli Nu. Extension Froject			
RFI#	6		Date:	8/30/23
Request by:	Salvador He	rnandez		
	9 & 15		Specification:	
	Metal Beam			
After reviewing the standard for the metal guard fence end treatments, we noticed that there are 2 driveways that will be blocked, if we install the end treatments at Culvert "A" and Culvert "C".				
At culvert culvert.	"A" there is	a driveway 1	located so	utheast of the
At culvert culvert.	"C" there is	a driveway l	located no:	rtheast of the
Please provide guidance.				

RESPONSE

Response By: Alfredo Martinez, P.E., CFM AM Date: 9/1/2023

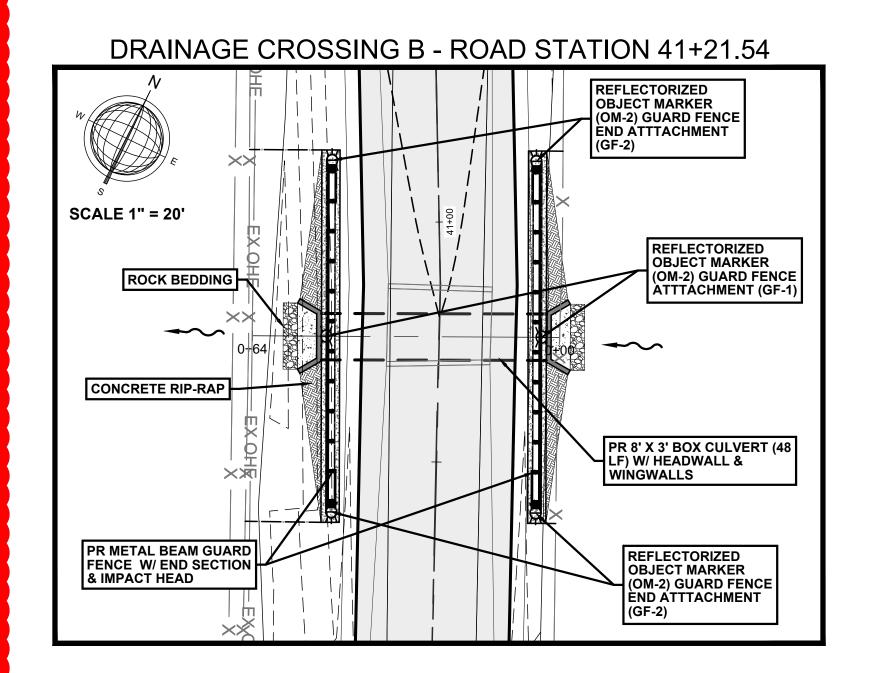
As demonstrated on the plan sheet markups included in this RFI, the MBGF should not be in conflict with these existing driveways. Additionally, the approach to MBGF installation was clarified with the response to RFI no.1.

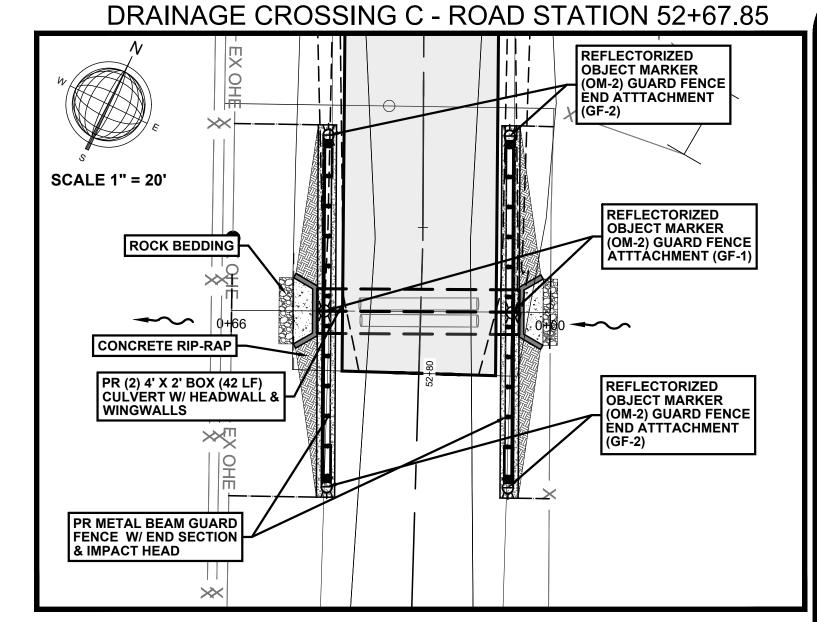
The MBGF for Culvert "A" does not obstruct the existing driveway but does extend into the existing fence opening. We recommend to shorten the MBGF at that location.

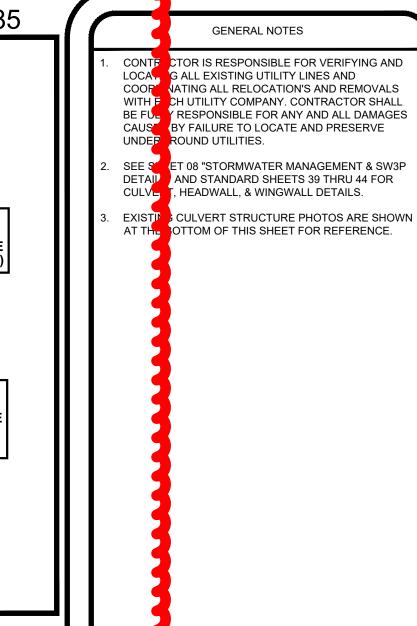
Please see the attached plan markup providing additional clarification based on the same approach provided within the RFI no.1 response. The markup incorporates the modification to the MBGF at Culvert "A" discussed above.

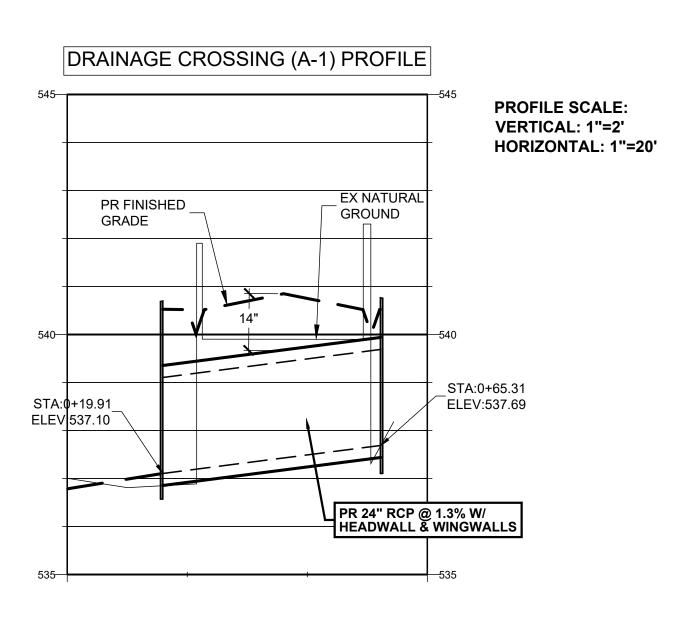
Let me know if you require any further clarification. We can schedule an on-site meeting to discuss.

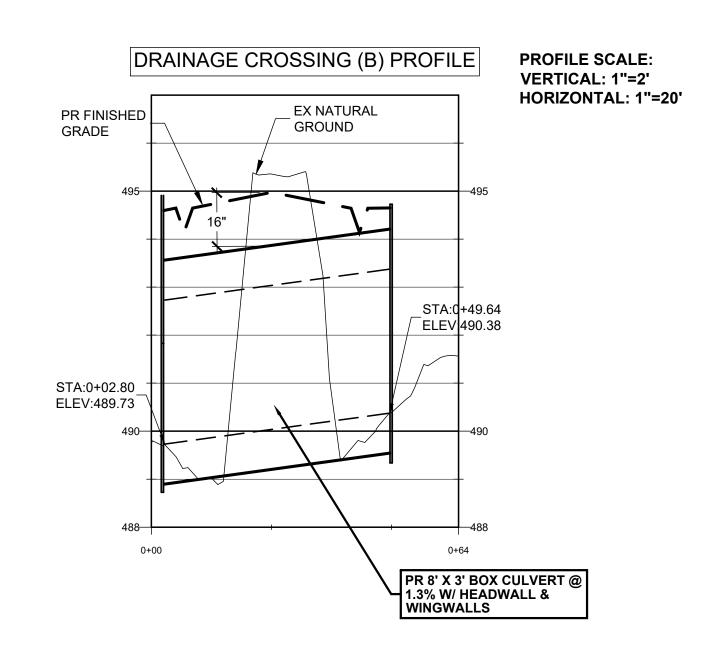
DRAINAGE CROSSING A - ROAD STATION 0+00 REFLECTORIZED OBJECT MARKER (OM-2) GUARD FENCE END ÁTTTACHMENT (GF-2) **SCALE 1" = 20'** REFLECTORIZED OBJECT MARKER GAS LINE (OM-2) GUARD FENCE ATTTACHMENT (GF-1) **ROCK BEDDING** CONCRETE RIP-RAP PR (2) - 24" RCP (46 LF) DRAINAGE CROSSINGS W/ **HEADWALL & WINGWALLS** REFLECTORIZED OBJECT MARKER PR METAL BEAM GUARD FENCE W/ END SECTION (OM-2) GUARD FENCE & IMPACT HEAD END ATTTACHMENT

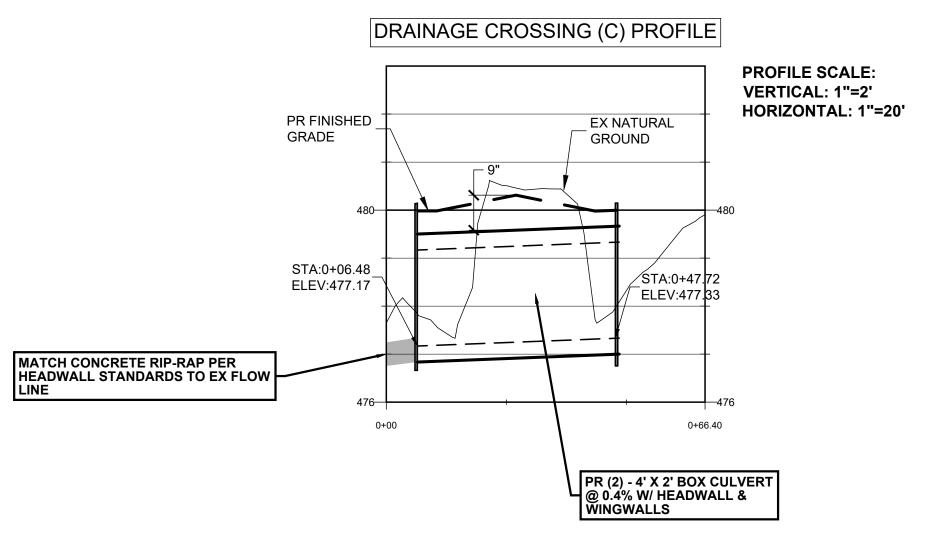


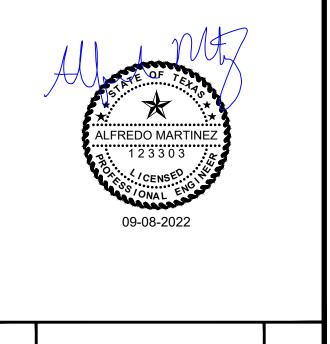




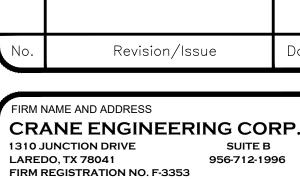








956-712-1996







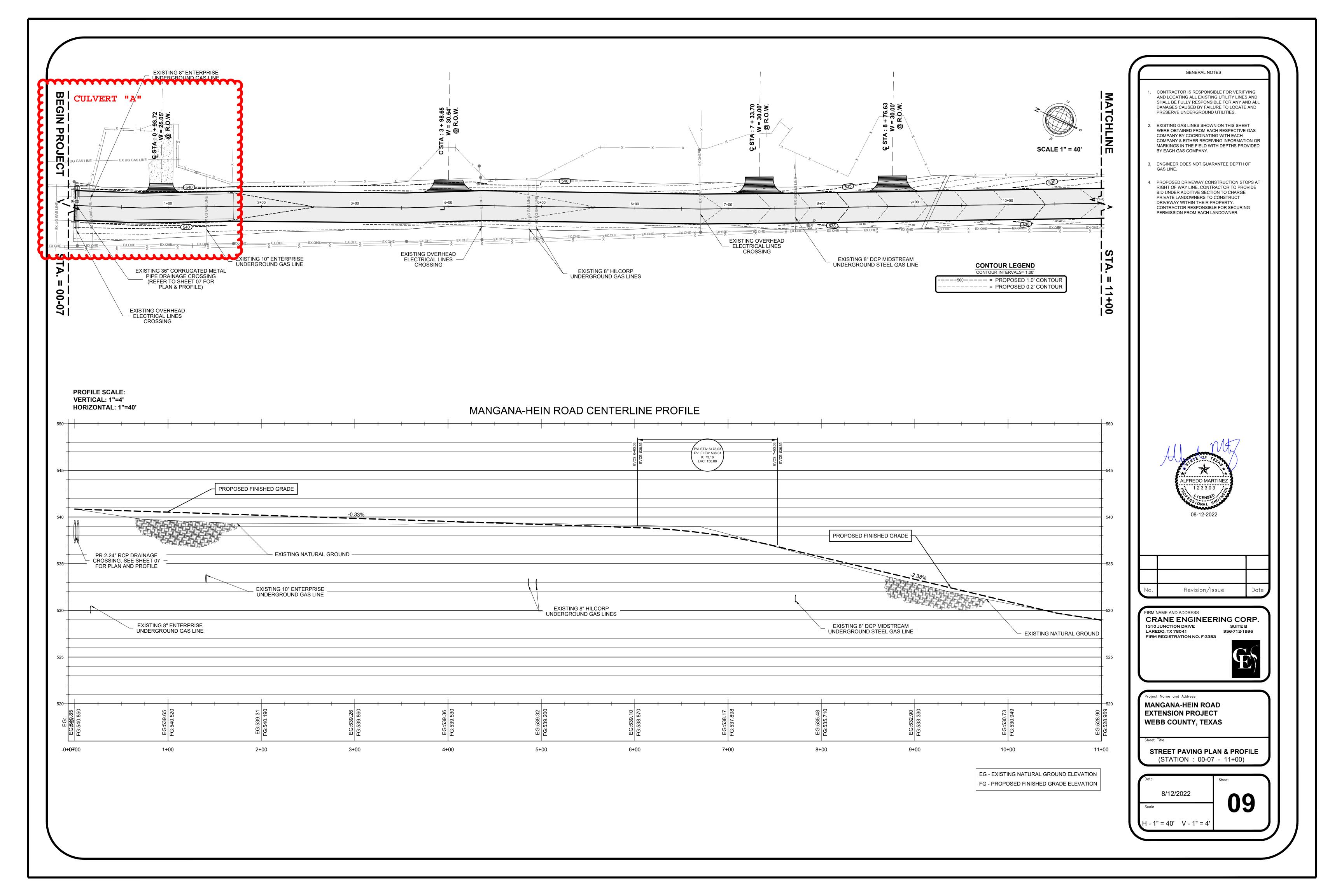




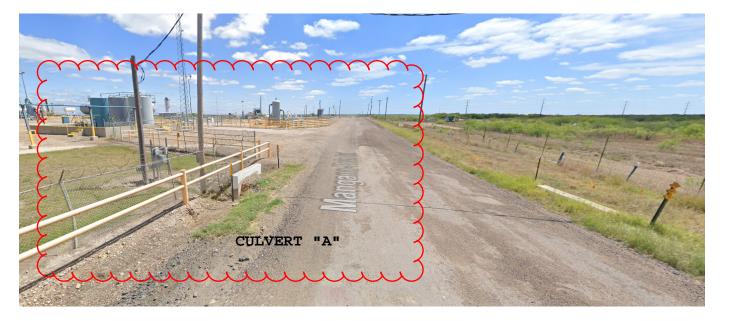


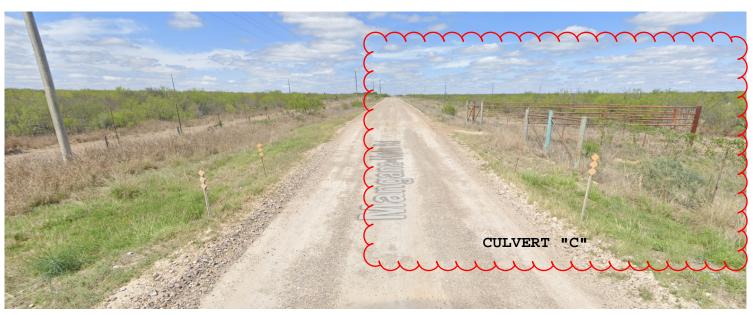
Project Name and Address **MANGANA-HEIN ROAD EXTENSION PROJECT WEBB COUNTY, TEXAS**

DRAINAGE CROSSINGS PLAN & PROFILI









Edward D. Garza, P.E., CFM President Alfredo Martinez, P.E., CFM

October 3, 2023

Mr. Guillermo Cuellar, P.E. Assistant Webb County Engineer 1620 Santa Ursula, 2nd Floor Laredo. Texas 78040

Re: Webb County Mangana Hein Road Extension Project Pre-Final Inspection Follow-Up Letter

Dear Mr. Cuellar,

To follow up on our pre-final inspection, we conducted an as-built survey of drainage crossing C to compare to original design. During our field work, we noticed that drainage crossing C as-built location and elevations were not matching plans, so we also conducted an as-built survey of drainage crossings A and B.

Based on our field work and comparison to construction plans, the following observations are made:

1) All three (3) drainage crossings are not constructed per design;

2) Drainage crossing C was constructed with box culvert top wall exposed and subject to direct loading;

 As-built pipe slopes for drainage crossing A are below 0.25%; Design plan requires 1.3% slope; This condition will impact hydraulic performance and increase maintenance cost to Webb County;

4) Drainage crossing B & C as-built slopes are not built as per plans, but can still work hydraulically as designed. These crossings do have issues with as-built elevations and placement that need additional design to accommodate existing conditions.

Based on these observations, we recommend the following actions:

A. Reconstruct drainage crossing A;

B. Accept drainage crossing B but provide additional site improvements to protect site due to placement of crossing;

C. Accept drainage crossing C but provide additional road and site improvements to provide adequate cover and protect site due to placement of crossing

Acceptance of these recommendations will require additional design and construction phase services outside of our scope. Please advise if you would like for us to prepare a scope and fee for this additional work to address as-built conditions.

Sincerely,

CRANE ENGINEERING CORP.

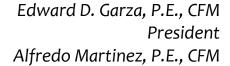
Firm # F-3353

Edward D. Garza, P.E., CFM Principal Engineer

Cc: Mr. Nathan Bratton, esq.

Webb County Civil Legal Director

EDWARD D. GARZA
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September 8, 2023 Updated January 11, 2024

Mr. Guillermo Cuellar, P.E. Assistant Webb County Engineer 1620 Santa Ursula, 2nd Floor Laredo, Texas 78040

> Re: Webb County Mangana Hein Road Extension Project Pre-Final Inspection Punchlist

Dear Mr. Cuellar,

A pre-final inspection was conducted on 9/7/23 on the above referenced project. Sign-in sheet was prepared by Mr. Gerardo Rodriguez of Webb County. This inspection applies only to original contract work items from STA 0+00 to 52+68 and does not include additional road construction authorized by Webb County.

The following people were present:

- Guillermo Cuellar, P.E., Assistant County Engineer
- Matthew Martin, Webb County Inspector
- Gerry Rodriguez, Webb County ROW Agent
- Jerry Carrillo, Anderson Columbia
- Salvador Hernandez, Anderson Columbia
- Edward D. Garza, P.E., CFM Crane Engineering
- Alfredo Martinez, P.E., CFM Crane Engineering

The following items require attention from the Contractor before final acceptance can be recommended:

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- 2) Re-establish gravel filters and silt fence after developing bar ditches; Coordinate with Engineer on relocating up to three (3) gravel filters to drainage crossing at STA 52+67.85;
- 3) Install MBGF and concrete rip-rap at all drainage crossings. Discussion of RFI#6 held on site to confirm understanding of MBGF placement on site; All parties agreed to follow RFI#6 submittal and response; (copy of RFI attached)
- 4) Re-establish wire fence on west side of drainage crossing B at STA 41+21.54; Fence work required on both sides of headwall; H. Hereford property owner.

- 5) Remove exposed steel from back of headwall and provide rub finish at end of headwall to eliminate rough finish at drainage crossing B at STA 41+21.54;
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Note: Crane reviewed product submittal, and box culvert submittal was not submitted by contractor. Crane recommended to perform an as-built survey of drainage crossing C to assess existing condition. Webb County agreed. Discussion held on adding additional concrete rip-rap, gravel filters, and ROW grading at headwall locations.

- 7) Add reflectors at each drainage crossing after MBGF installation;
- 8) Remove TCP upon completion and acceptance of project by Webb County;
- 9) Remove excess material and provide general clean-up;
- 10)Remove excess yellow and white paint material from asphalt surface close to drainage crossing C;
- 11) Provide redlined construction plans to Engineer to reflect any field changes;
- 12) Remove silt from inside all three (3) drainage crossings;
- 13) Add concrete to all rough edges on headwalls and wing walls to provide smooth finish;
- 14) Compact soil around all drainage crossings and grade ROW to drain toward drainage crossings; See note 1.

Please advise when punchlist items have been completed to schedule final inspection.

Sincerely,

CRANE ENGINEERING CORP.

Firm # F-3353

Edward D. Garza, P.E., CFI

Principal Engineer

Cc: All above



Edward D. Garza, P.E., CFM President Alfredo Martinez, P.E., CFM

April 17, 2024

Mr. Guillermo Cuellar, P.E. Assistant Webb County Engineer 1620 Santa Ursula, 2nd Floor Laredo, Texas 78040

Re: Webb County Mangana Hein Road Extension Project Pre-Final Inspection Punchlist

Dear Mr. Cuellar,

A follow up to the pre-final inspection conducted on 9/7/23 was conducted on 4/16/24 on the above referenced project. This inspection applies only to original contract work and additional items from STA 0+00 to 52+68 and does not include additional road construction authorized by Webb County.

The following people were present:

- Jerry Carrillo, Anderson Columbia
- Salvador Hernandez, Anderson Columbia
- Edward D. Garza, P.E., CFM Crane Engineering
- Alfredo Martinez, P.E., CFM Crane Engineering

The following items require attention from the Contractor before final acceptance can be recommended:

- 1) Re-establish silt fence along completed ROW grading; Refer to plan sheet #6 for locations;
- 2) Re-establish wire fence on west side of drainage crossing B at STA 41+21.54 and drainage crossing A; (Refer Image #1)
- 3) Add object markers at each drainage crossing after MBGF installation; Correct yellow adhesive reflective material;
- 4) Remove TCP upon completion and acceptance of project by Webb County;
- 5) Provide redlined construction plans to Engineer to reflect any field changes; If any.
- 6) Remove silt from inside all three (3) drainage crossings;
- 7) Add concrete to all rough edges on headwalls and wing walls to provide smooth finish; Correct joints where expansion material protruding; Add sealant (Refer to Image #2). This applies to all drainage crossings.
- 8) Install erosion control blanket at drainage crossings;
- 9) Correct asphalt failure at approximate STA 0+50; (Refer to Image #3)
- 10) Clean hydromulch residue off of MBGF at all drainage crossings and existing bollard fence at drainage crossing A. (Refer to Image #4)
- 11) Backfill behind all concrete rip rap. (Refer to Image #5)
- 12) Cut off exposed bolts and add grout to seal holes as needed at crossings (Refer to Image #6)
- Backfill at all MBGF posts as needed to provide positive drainage away from posts. Use select backfill (*Refer to Image #7*)
- 14) Construct footing for exposed fence posts as described in original bid notes. Install header curb to support existing fencing. (Refer to Image #8&9)

Please advise when punchlist items have been completed to schedule final inspection.

Sincerely,

CRANE ENGINEERING CORP.

Firm # F-3353

Edward D. Garza, P.E., CFM Principal Engineer

Cc: All above

Mr. J. Carlos Flores, MBA, LI, CFM, Director Capital Projects / Facilities Infrastructure Webb County Engineering Dept.





Image #1

Image #2





Image #3 Image #4





Image #5 Image #6





Image #7 Image #8



Image #9



Miriam Garcia <miriamg@craneeng96.com>

Mangana Hein Road Project - Final Inspection 5/6

Edward Garza <eddiegarza@craneeng96.com>

Mon, May 6, 2024 at 2:04 PM

To: "J. Carlos Flores" <jcflores@webbcountytx.gov>

Cc: "Guillermo B. Cuellar" <gbcuellar@webbcountytx.gov>, Salvador Hernandez

<salvador.hernandez@andersoncolumbia.com>, Jerry Carrillo <jerry.carrillo@andersoncolumbia.com>, Alfredo Martinez <fredm@craneeng96.com>, James Vela <jamesv@craneeng96.com>, Miriam Garcia <miriamg@craneeng96.com>, Robert Garza <robertg@craneeng96.com>, Edward Garza <eddie-crane@sbcglobal.net>

Carlos - We conducted the final inspection for Mangana Hein Road project today. The following people were present:

- 1. Carlos Flores, Webb County Engineering
- 2. Guillermo Cuellar, P.E., Webb County Engineering
- 3. Salvador Hernandez, AC
- 4. Martin, AC
- 5. Edward D. Garza, P.E., Crane Engineering

All items on the punch list dated 4/17/24 have been addressed except for the following:

- 1. AC to remove traffic control within project site;
- 2. AC to paint the existing yellow steel railing within drainage crossing A to complete the pay item on the contract. AC will provide product submittal. Work on this item includes repainting steel bollard fence with 2 coats of primer and 2 coats of paint. Paint color to match existing conditions. This information can be found on the bid schedule notes in the project manual.

Please send product submittal and photo of completed work. Thanks. Edg

Edward D. Garza, P.E., CFM Principal Engineer Crane Engineering Corp. Firm#F-3353 (956) 712-1996

