



8350 Eastex Freeway, Beaumont, TEXAS 77708 | 409.892.7311 | WWW.TXDOT.GOV

November 18, 2020

FM 562 Lone Oak Bayou Project  
Chambers County, Texas  
CSJ: 1022-01-034

Hector Garcia, P.E.  
Bridge Engineer  
FHWA – Texas Division  
300 E 8<sup>th</sup> Street, Rm 826  
Austin, Texas 78701

Dear Mr. Garcia,

The Texas Department of Transportation (TxDOT) is requesting an exception from the United States Coast Guard (USCG) bridge permitting requirements for the proposed new bridge to be constructed at the FM 562 crossing of the Lone Oak Bayou in Chambers County, Texas. The existing Lone Oak Bayou bridge structure (NBI 200360102201006) is a 60-foot long concrete slab and girder bridge with two spans (30' x 27'-8 1/2") providing two 12-foot wide travel lanes with no shoulders.

The proposed FM 562 bridge will be a single span (75-foot) prestressed concrete box beam span structure. The proposed bridge length is 75 feet with a deck width of approximately 38-feet to provide two 12-foot wide travel lanes with a 4-foot wide shoulder for the southbound direction and a 10-foot wide shoulder for the northbound direction.

Lone Oak Bayou is a tidally influenced stream that crosses beneath the existing FM 562 bridge to be replaced. Shallow borrow areas are connected to the bayou in all four quadrants of the project area. These borrow areas are permanently flooded, tidally influenced, and extend to the edge of the ROW on both sides of FM 562. The borrow areas extend approximately 370 feet north of the bridge, and approximately 1,580 feet south of the bridge.

Upstream and downstream of the FM 562 Bridge project area contain salt marsh type wetlands that would restrict the channel for navigation purposes due to their shallow depth and lack of access points. To facilitate commercial traffic, the bayou would require significant channel widening and dredging both upstream and downstream, to include, straightening a series of bends downstream. The project location and orientation of the upstream and downstream obstructions do not allow for boat traffic greater than 21 feet in length. No vessels were observed using the waterway during site visits.

In addition to the bridge permitting exception, TxDOT is requesting an exemption from the USCG navigational lighting requirements for the proposed FM 562 Bridge Project at Lone Oak Bayou. In accordance with 33 CFR 118.40(b), no significant nighttime navigation occurs at this bridge site.

If you have questions, please contact me by phone at (409) 898-5820 or [jason.hightower@txdot.gov](mailto:jason.hightower@txdot.gov)

Sincerely,



Jason Hightower  
Environmental Specialist  
TxDOT Beaumont District

Attachments: USCG Bridge Project Questionnaire

- Appendix A: Location Map and Agency Coordination Letter
- Appendix B: Bridge Layout
- Appendix C: Site Photographs
- Appendix D: Property Owners



## BRIDGE PROJECT QUESTIONNAIRE

Please provide the following information:


### A. NAVIGATION DATA:

1. Name of Waterway: Lone Oak Bayou
- 1a. Mileage along waterway measured from mouth or confluence 4.4 miles to Trinity Bay
- 1b. Tributary of: Trinity Bay
2. Geographic Location: FM 562, near Smith Point, Chambers County, Texas  
Lat: 29°36'16.89"N, Long: 94°40'32.00"W  
(Road Number, City, County, State) and (**Latitude and Longitude in NAD 83 form**)
3. Township, section and range, if applicable: N/A
4. Tidally influenced at proposed bridge site? Yes X No      .  
Range of tide: Mean Range: 1.07 ft.  
Tidal data source: Rollover Pass, TX - Station ID: 8770971
5. Depth and width of waterway at proposed bridge site:

	Depths	Widths
At Mean High Tide	<u>2.31</u>	<u>62.67</u>
At Mean Low Tide	<u>UNK</u>	<u>UNK</u>
6. Character of present vessel traffic on waterway (check each that apply). If none , so state: None X .  
Canoe      Rowboat      Small Motorboat      Cabin Cruiser      .  
Houseboat      Pontoon Boat      Sailboat .
- 6a. Provide vertical and horizontal clearance requirement for largest vessel using the waterway: N/A.
- 6b. Provide photograph of each type of vessel using the waterway.  
*No vessels using the waterway during the site visit.*
7. Are these waters used to transport interstate or foreign commerce?  
Yes      No X .

- 7a. Are these waters susceptible to use in their natural condition or by reasonable improvement as a means to support interstate or foreign commerce?  
Yes \_\_\_\_\_ No X .
- 7b. Any planned waterway improvements to permit larger vessels to navigate (to your knowledge)? No If so, what are they? \_\_\_\_\_  
\_\_\_\_\_
8. Any natural or manmade obstructions, bridges, dams, weirs, etc. downstream or upstream? Yes \_\_\_\_\_ No X .
- 8a. If yes, provide upstream/downstream location with relation to the proposed bridge. N/A
- 8b. If bridges are located upstream or downstream, provide vertical clearance at mean high water and mean low water and horizontal clearance normal to the axis of the channel. N/A
- 8c. Provide a photograph of the bridge from the waterway showing channel spans.  
*See attached Photo Log.*
9. Will the structure replace an existing bridge? Yes X No \_\_\_\_\_ .
- 9a. Provide permit number and issuing agencies of permits for bridge(s) to be replaced. USACE NWP will be required and will be provided prior to construction.
- 9b. Provide vertical clearance at mean high water and mean low water and horizontal clearance normal to the axis of the channel for the proposed bridge.  
MHW: 1.7 ft. MLW: UNK Horizontal Clearance: 75 ft
10. List names and addresses of persons whose property adjoins bridge right-of-way.  
*See attached Property Owners.*
11. List names and addresses/location of marinas, marine repair facilities, public boat ramps, private piers/docks along the waterway within ½ mile of the bridge site.  
No marinas, marine repair facilities, public boat ramps, private piers/docks are located along the waterway within 1/2 mile of the site.  
\_\_\_\_\_  
\_\_\_\_\_
12. Attach location map and plans for the proposed bridge; including vertical clearances above mean high water and mean low water and horizontal clearance normal to axis of the waterway. *A location map and plans for the proposed bridge are attached.*
13. Attach three (3) photographs taken at the proposed bridge site: one looking upstream, one looking downstream, and one looking along the alignment centerline across the bridge site. *See attached Photo Log.*

Name of applicant: TxDOT  
Name of agent completing questionnaire: Jason Hightower  
Name of agent's firm: TxDOT  
Agent's telephone number: (409) 898-5820  
Address for correspondence: 8350 Eastex Freeway, Beaumont, TX 77708  
Applicant's telephone number: (409) 898-5820

Date: November 18, 2020 Signature: 

**PLEASE NOTE: MISSING INFORMATION AND REQUIRED SIGNATURES WILL  
DELAY PROCESSING**

Attachments: Location Map  
Bridge Plans  
Photographs  
Adjacent Property Owners

## Appendix A

### Project Location Map Agency Coordination Letter

Appendices

CSJ 1022-01-034, Chambers County, FM 562, Lone Oak Bayou Bridge  
Location Map





TEXAS GENERAL LAND OFFICE  
GEORGE P. BUSH, COMMISSIONER

October 12, 2020

Texas Department of Transportation  
118 E. Riverside Drive  
Austin, Texas 78704  
ATTN: Mario Mata

**Re: FM 562 Bridge Replacement  
Lone Oak Bayou, Chambers County, Texas  
CMP#: 21-1046-F5**

Dear Mr. Mata:

Based on information provided to the Texas Coastal Management Program on the above project, it has been determined that it will not have adverse impacts on coastal natural resource areas (CNRAs) in the coastal zone. However, siting and construction should avoid and minimize impacts to CNRAs. If a U. S. Army Corps of Engineers permit is required, it will be subject to consistency review under the Texas Coastal Management Program.

Please forward this letter to applicable parties. If you have any questions or concerns, please contact me at (409) 741-4057 or at [federal.consistency@glo.texas.gov](mailto:federal.consistency@glo.texas.gov).

Sincerely,

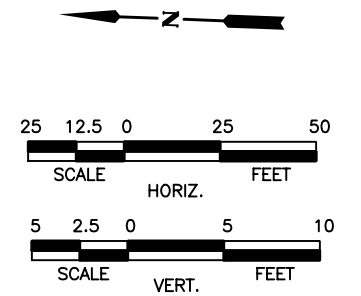
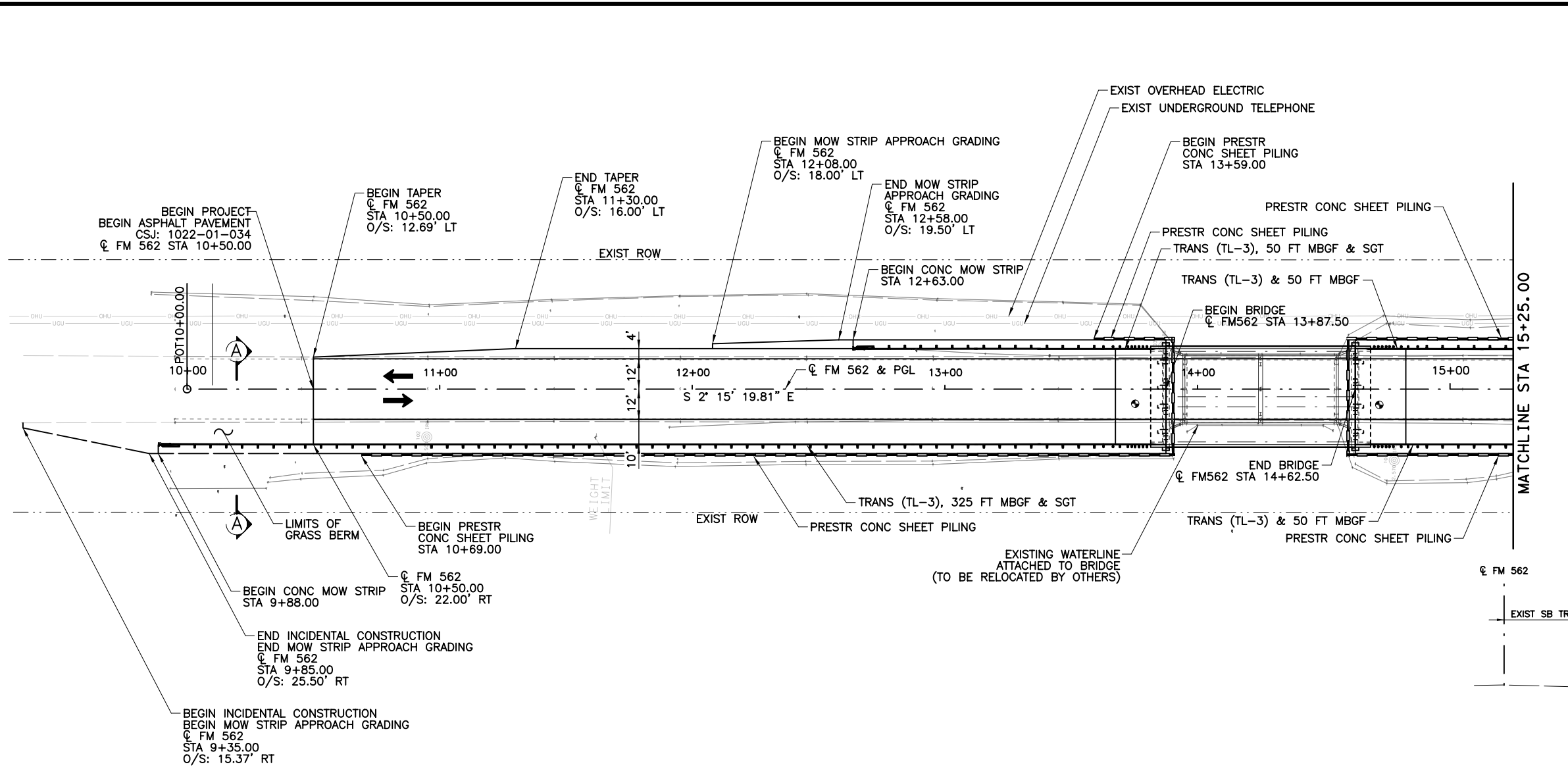
Allison Buchtien  
Coastal Protection  
Texas General Land Office

# Appendix B

## Bridge Layout

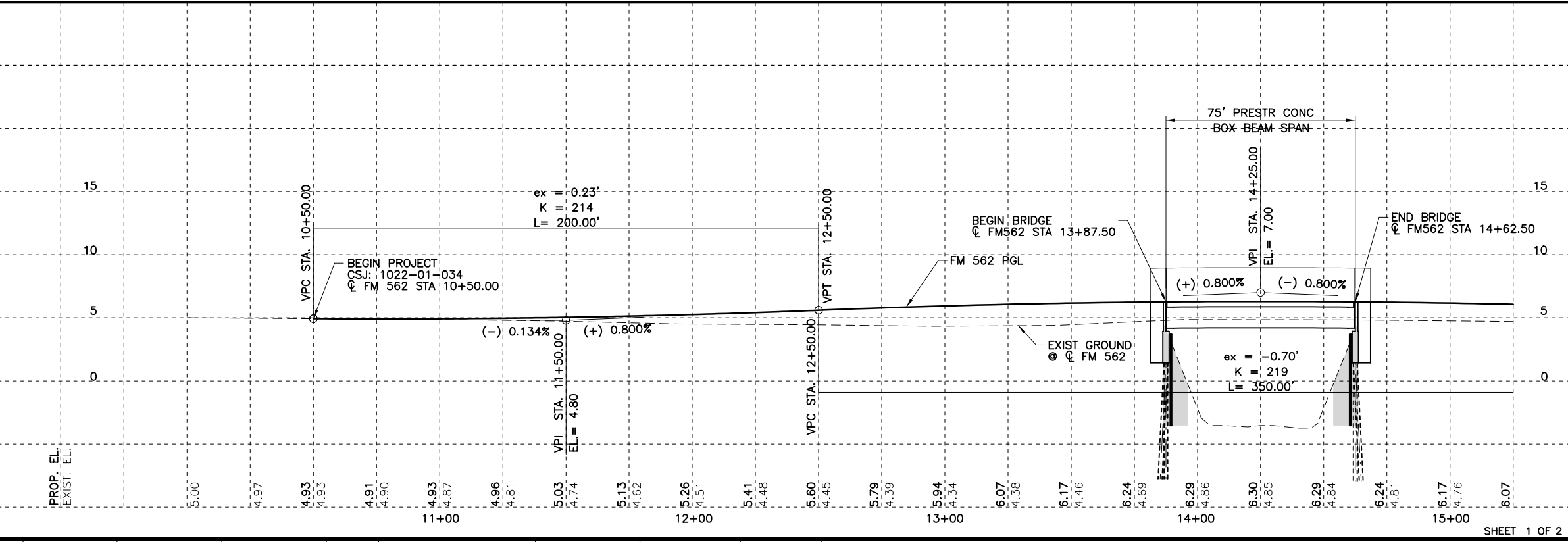
Appendices

8/26/2020 7:07:03 PM fveraara  
 cpybw\_ANSIB.tbl  
 cpypdf\_ANSIB.pltcfgr  
 pw:/Active Projects/TXBR1800917.00/TXBR1800917.02/FM 562/8.00 Plans and Drawings/8.30 Cut Sheets/8.3.04 Roadway/Alternative 2/FM562\_RDpp01B.dgn



**LEGEND**

- LIMITS OF TEMP SHORING
- PRESTR CONC SHEET PILING
- CONC RIPRAP



**PRELIMINARY**

30% SUBMITTAL  
FOR INTERIM REVIEW ONLY  
NOT FOR CONSTRUCTION, BIDDING,  
OR PERMIT PURPOSES.

**CP&Y**

ENGINEER **MARCEL D. STRACHAN**  
P.E. No. 99302 DATE 8/26/2020

NO.	REVISION	BY	DATE

**CP&Y**

TEXAS REGISTERED ENGINEERING FIRM F-1741

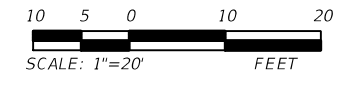
©2020 **Texas Department of Transportation**  
FM 562 AT LONE OAK BAYOU

**PLAN & PROFILE**

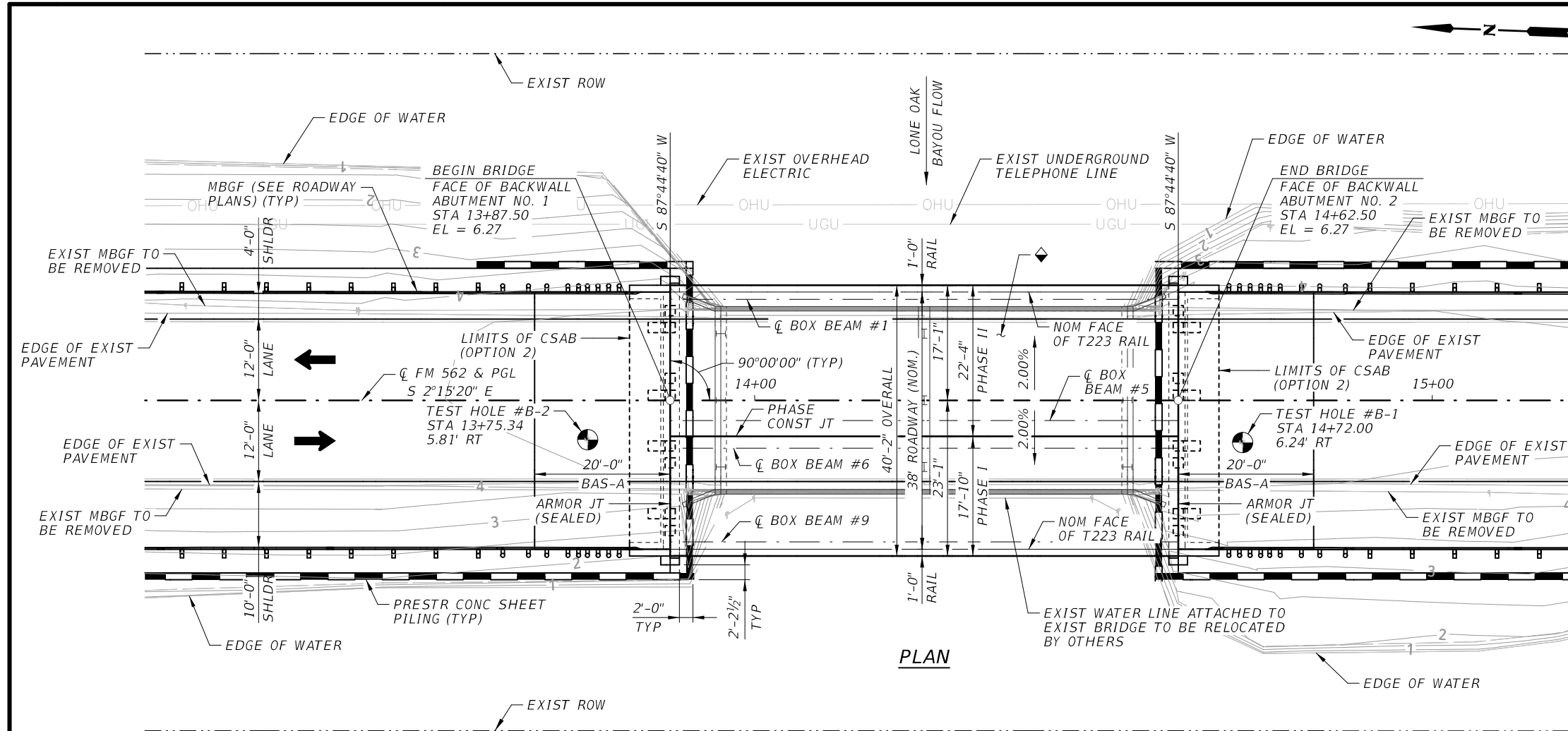
**BEGIN TO STA 15+25.00**

Designed: FV	FED. RD. DIV. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO.	HIGHWAY NO. FM 562
Checked: BAJ				
Drawn: FV	DIST. BMT	COUNTY CHAMBERS	CONTROL NO. 1022	SECTION NO. 01
Checked: BAJ				JOB NO. 034
				SHEET NO. 9

SHEET 1 OF 2



- GENERAL NOTES:**
- DESIGNED ACCORDING TO 2020 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (9TH EDITION).
  - SEE BORING LOG SHEET FOR BORE HOLE DATA.
  - ALL DIMENSIONS ARE EITHER HORIZONTAL OR VERTICAL AND MUST BE CORRECTED FOR GRADE, CROWN AND/OR SUPERELEVATION.
  - SEE "PHASED CONSTRUCTION TYPICAL SECTIONS" SHEETS FOR BRIDGE TYPICAL SECTIONS.
  - USE OPTION 2 FOR CONFIGURATION OF CSAB BEHIND ABUTMENTS. SEE CSAB STANDARD DETAILS.



**PLAN**

DESIGN SPEED = 60 MPH  
 ADT(2018) = 266 VPD  
 ADT(2038) = 372 VPD  
 FUNCT CLASS = RURAL MINOR COLLECTOR  
 EXIST NBI NO. 20-036-0-1022-01-006  
 PROPOSED NBI NO. XX-XXX-X-XXXX-X-XXX

EXISTING TWO 30'-0" CONCRETE SLAB AND GIRDER SPANS (60'-0" LENGTH X 27'-8 1/2" WIDTH) TO BE REMOVED. STEEL H-PILES TO BE REMOVED 2'-0" MINIMUM BELOW FINISHED GROUND.

**HL 93 LOADING**

**PRELIMINARY**

30% SUBMITTAL  
 FOR INTERIM REVIEW ONLY  
 NOT FOR CONSTRUCTION, BIDDING,  
 OR PERMIT PURPOSES.



ENGINEER JOLIE ANNE SNYDER  
 P.E. No. 134009 DATE 8/26/2020

NO.	REVISION	BY	DATE



TEXAS REGISTERED ENGINEERING FIRM F-1741

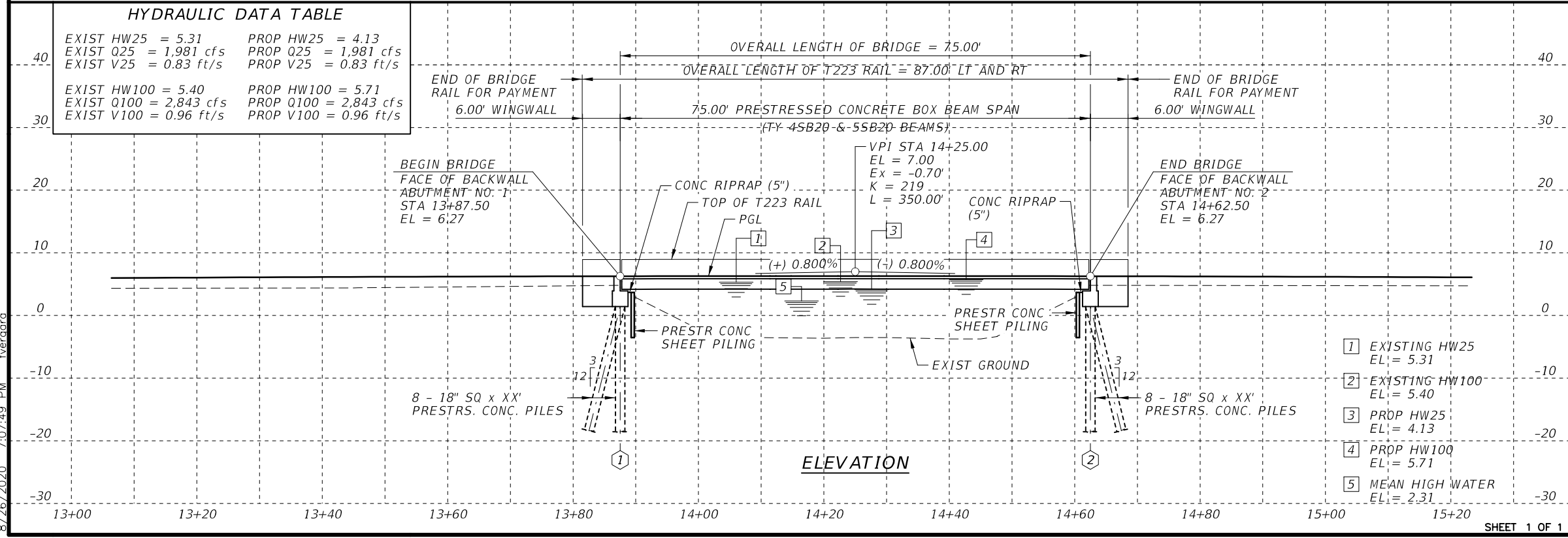
©2020 Texas Department of Transportation  
 FM 562 AT LONE OAK BAYOU

**BRIDGE LAYOUT  
 LONE OAK BAYOU BRIDGE**

Designed:	JAS	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	TWS	6	TEXAS		FM 562
Drawn:	AL	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	JAS	BMT	CHAMBERS	1022	01 034
					SHEET NO. 13

**HYDRAULIC DATA TABLE**

EXIST HW25 = 5.31	PROP HW25 = 4.13
EXIST Q25 = 1,981 cfs	PROP Q25 = 1,981 cfs
EXIST V25 = 0.83 ft/s	PROP V25 = 0.83 ft/s
EXIST HW100 = 5.40	PROP HW100 = 5.71
EXIST Q100 = 2,843 cfs	PROP Q100 = 2,843 cfs
EXIST V100 = 0.96 ft/s	PROP V100 = 0.96 ft/s



**ELEVATION**

- 1 EXISTING HW25 EL = 5.31
- 2 EXISTING HW100 EL = 5.40
- 3 PROP HW25 EL = 4.13
- 4 PROP HW100 EL = 5.71
- 5 MEAN HIGH WATER EL = 2.31

8/26/2020 7:07:49 PM fveraara

# Appendix C

## Site Photographs

Appendices



**Photo 1.** Lone Oak Bayou at the FM 562 bridge, facing east.



**Photo 2.** Lone Oak Bayou at the FM 562 bridge, facing west.

Appendices



Photo 3. Lone Oak Bayou at the FM 562 bridge, facing north.



Photo 4. Lone Oak Bayou at the FM 562 bridge, facing south.

Appendices

# Appendix D

## Property Owners

Appendices

Adjacent Property Owners Mailing Addresses

*Barrow Heritage Ranch  
106 Kildrummy LN  
Lakeway, TX 78738*

*Donna Lagow  
1920 Cedar LN  
Dayton, TX 77535*

*Janet Lagow  
8505 FM 562  
Anahuac, TX 77514*

*Wanda Lagow  
1920 Cedar LN  
Dayton TX 77535*

*Bonnie Meredith  
3648 Maplewood Ave.  
Dallas TX 75205*

*Brooke Stoesser  
PO Box 340  
Raywood, TX 77582*

*Halley Willcox  
1312 S Hardy DR 17  
Temple, AZ 85281*

*Modesto White  
6504 FM 562  
Anahuac, TX 77514*