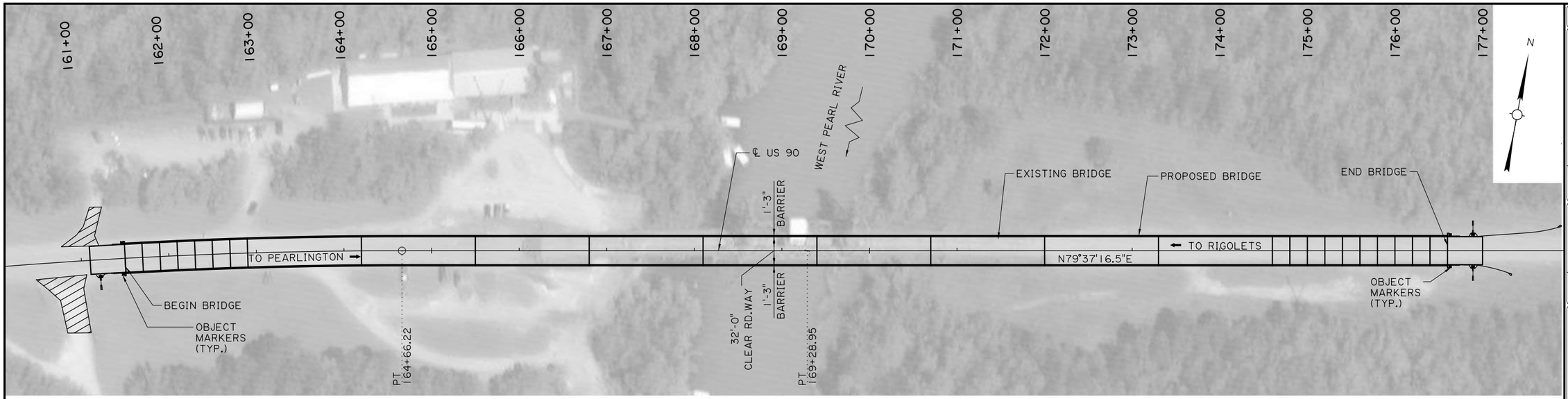
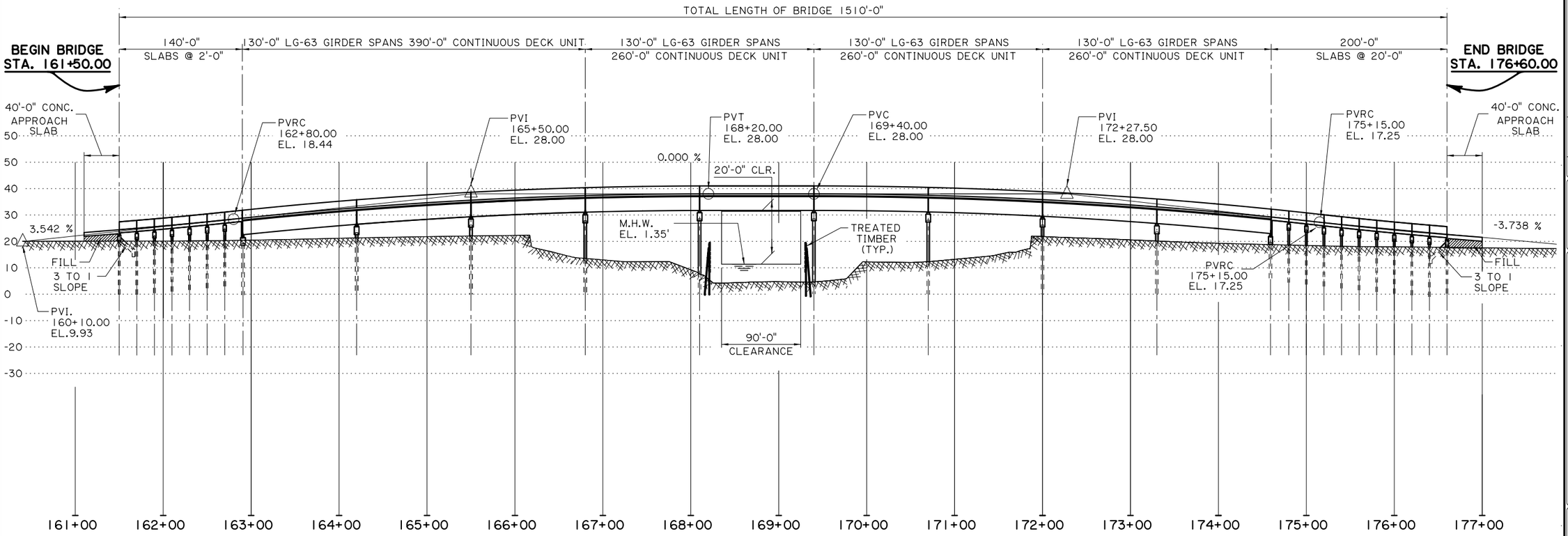
Appendix A. Alternatives

10/14/2025 15:21



DRIVEWAYS TO REMAIN



SHEET NUMBER			
PARISH: ST. TAMMANY	CONTROL SECTION: 006-07	STATE PROJECT: H.000284	
DESIGN: A. MICHAEL	DETAIL: A. BURNOS	REVIEW	SERIES # 1 OF 1
CHECK:	CHECK: A. MICHAEL		

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

STATE OF LOUISIANA — DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

BRIDGE GENERAL PLAN

WEST PEARL RIVER BRIDGE

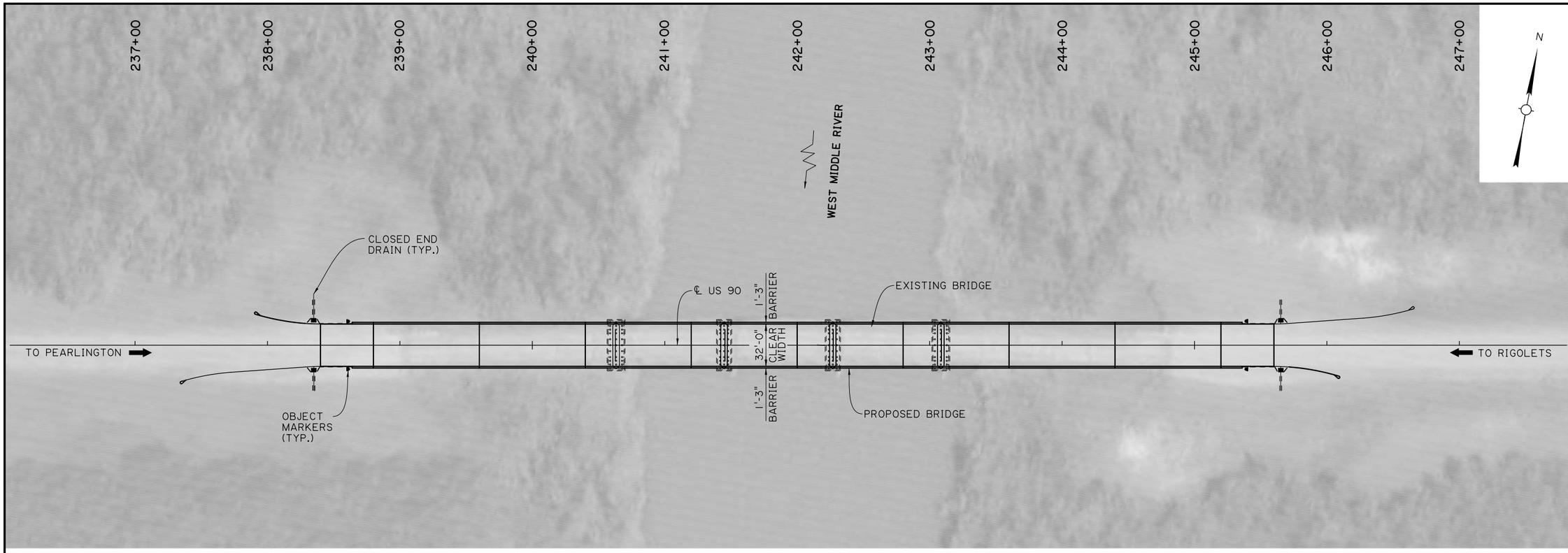
PEARL RIVER BRIDGES

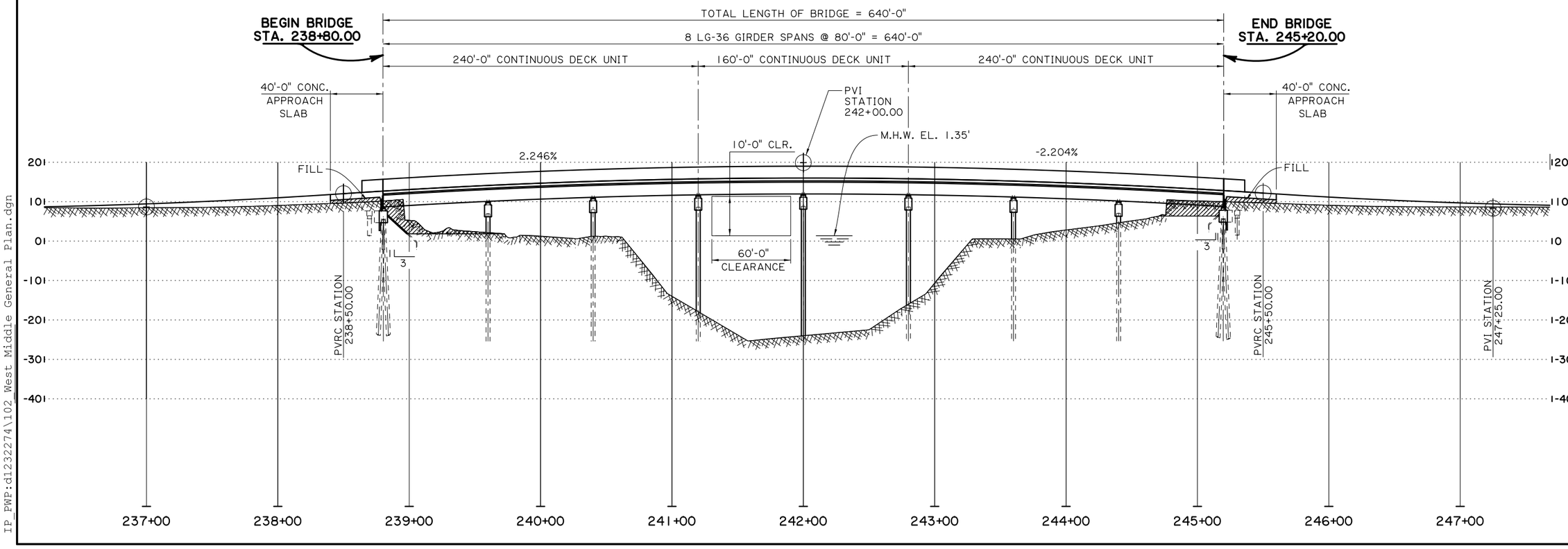
DOTD — LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

BRIDGE AND STRUCTURAL DESIGN

IP_PWP:d1232274\101_West Pearl General Plan.dgn

10/14/2025 14:29





SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT
ST. TAMMANY	006-07	H.000284

DESIGN	A. MICHAEL
CHECK	
DETAIL	A. BURNOS
CHECK	A. MICHAEL
REVIEW	
SERIES #	1 OF 1

PRELIMINARY
FOR REVIEW ONLY

ENGINEER:
ANDREW MICHAEL

LICENSE #:
37620

DATE:
10/14/2025

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

STATE OF LOUISIANA

BRIDGE GENERAL PLAN

WEST MIDDLE RIVER BRIDGE

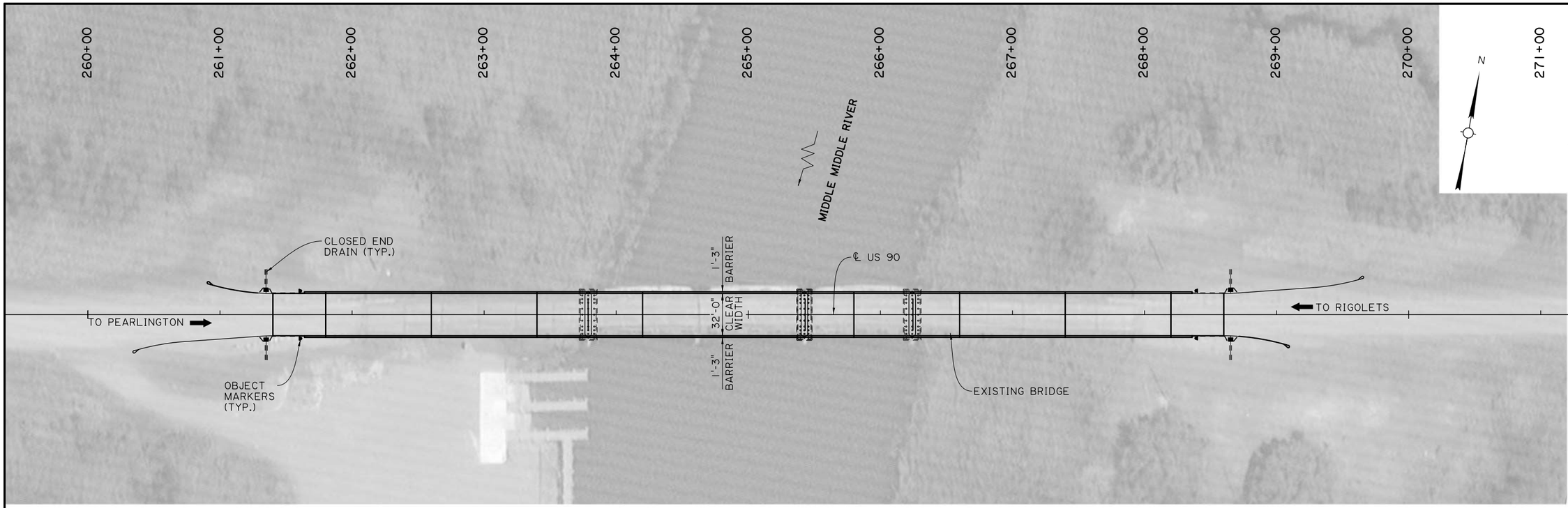
PEARL RIVER BRIDGES

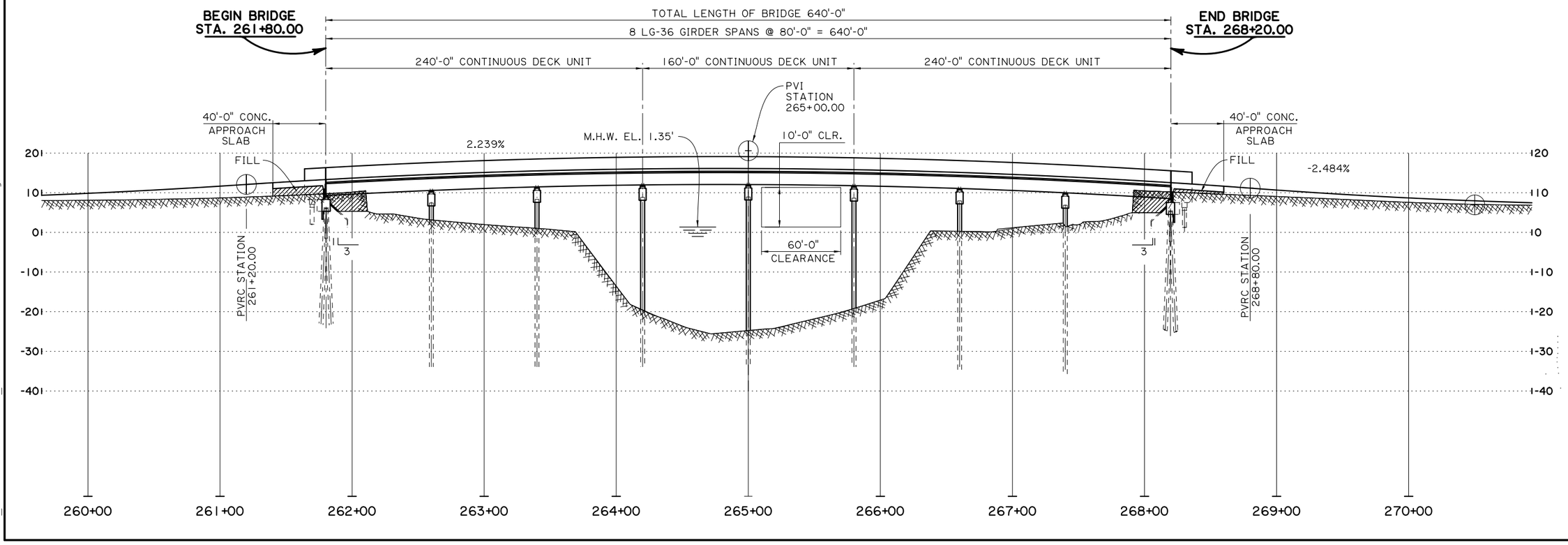
DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

BRIDGE AND STRUCTURAL DESIGN

IP_PWP:d1232274\102 West Middle General Plan.dgn

10/14/2025 13:08





SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT
ST. TAMMANY	006-07	H.000284

DESIGN	A. MICHAEL	DETAIL	A. BURNOS	REVIEW	SERIES # 1 OF 1
CHECK		CHECK			

PRELIMINARY
FOR REVIEW ONLY

ENGINEER:
ANDREW MICHAEL

LICENSE #:
37620

DATE:
10/14/2025

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

BRIDGE GENERAL PLAN

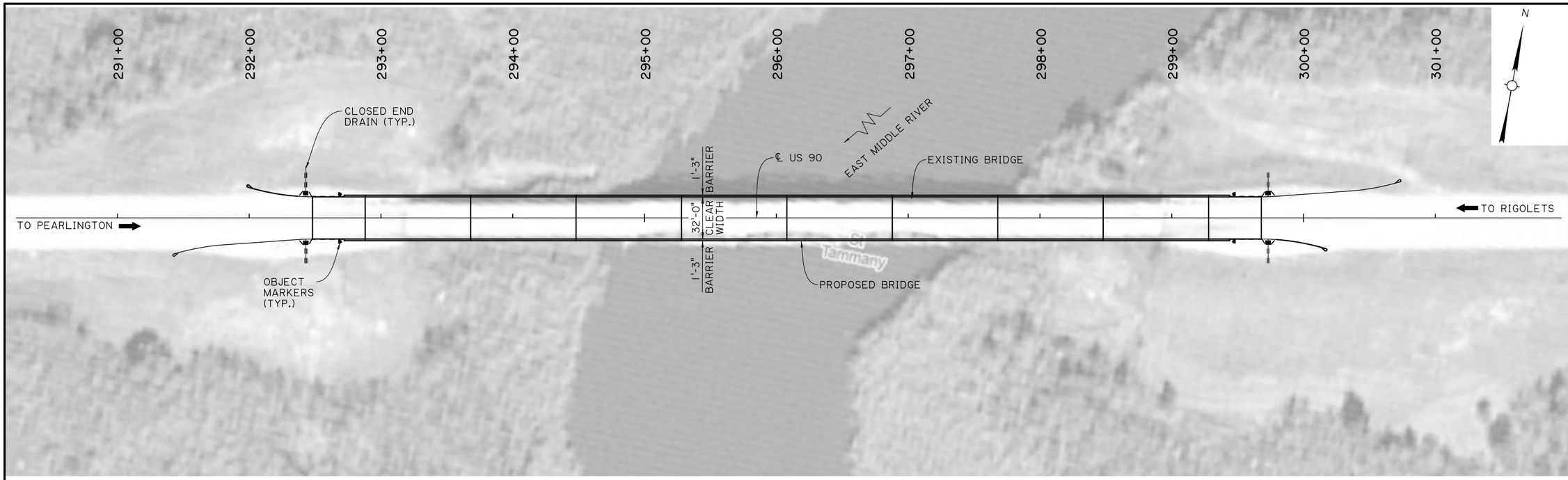
MIDDLE MIDDLE RIVER BRIDGE

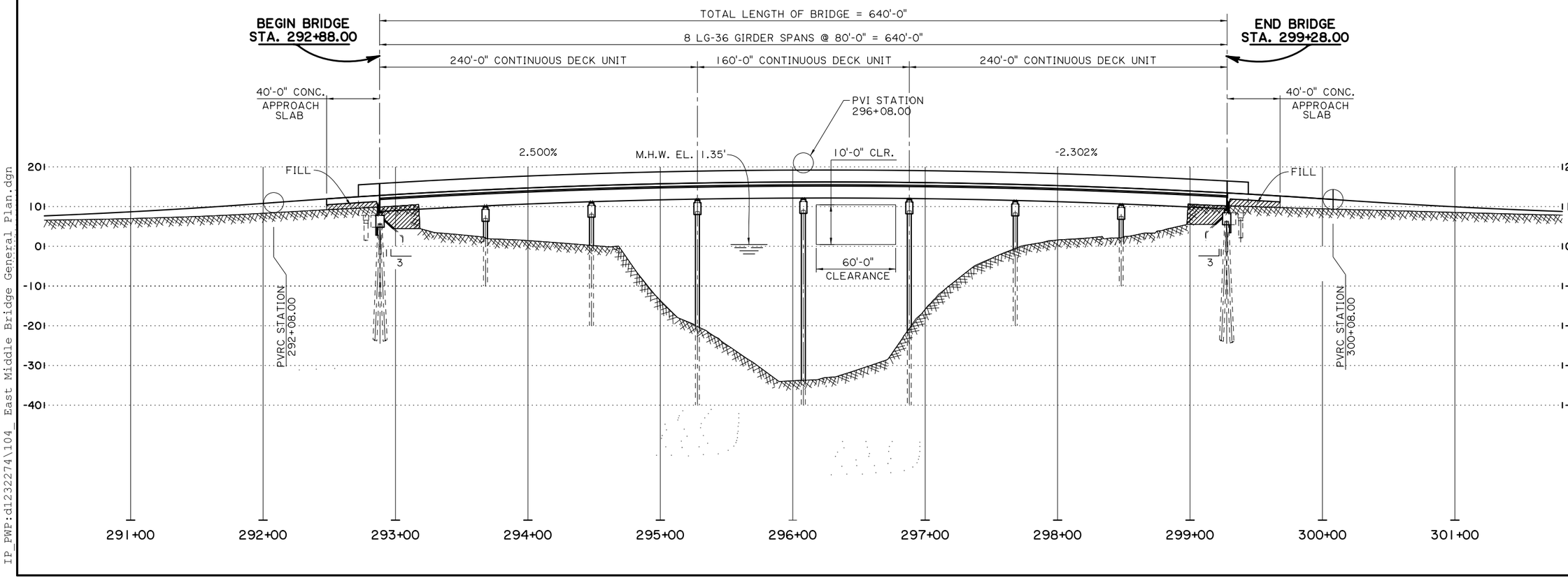
PEARL RIVER BRIDGES

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

BRIDGE AND STRUCTURAL DESIGN

IP_PWP:d1232274\103_Middle Middle General Plan.dgn





SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT
ST. TAMMANY	006-07	H.000284

DESIGN	CHECK	DETAIL	CHECK	REVIEW	SERIES #
A. MICHAEL		A. BURNOS	A. MICHAEL		1 OF 1

PRELIMINARY
FOR REVIEW ONLY

ENGINEER:
ANDREW MICHAEL

LICENSE #:
37620

DATE:
10/14/2025

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

BRIDGE GENERAL PLAN

EAST MIDDLE BRIDGE

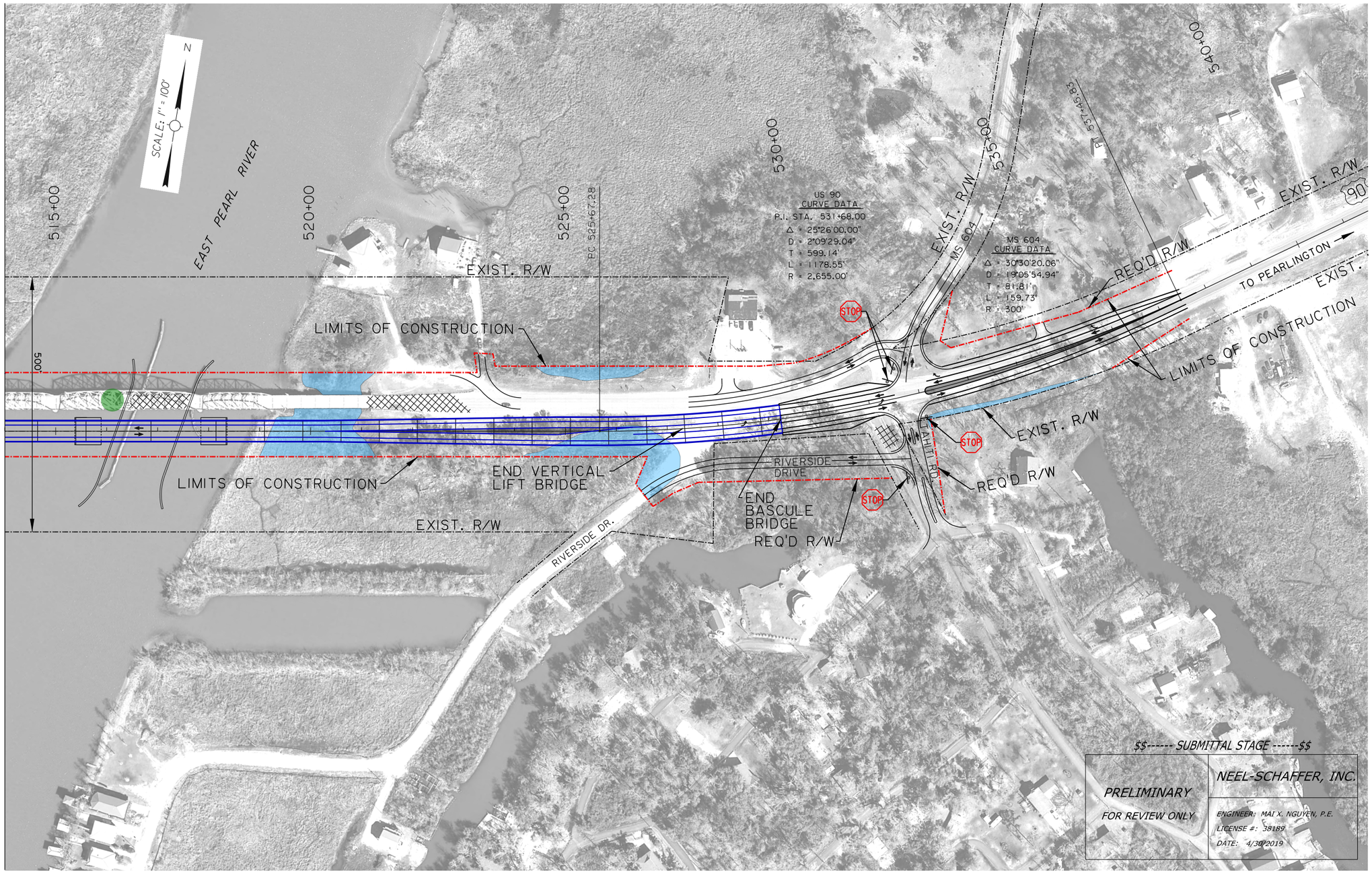
PEARL RIVER BRIDGES

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

BRIDGE AND STRUCTURAL DESIGN

10/14/2025 11:06

IP_PWP:d1232274\104_East Middle Bridge General Plan.dgn



100 50 0 100
GRAPHIC SCALE
SCALE: 1"=100'

PREPARED BY NEEL-SCHAFFER, INC.

Federal Highway Administration
DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT
MDOT

US 90: EAST PEARL RIVER BRIDGE
MOVABLE BRIDGE ALTERNATIVES
STATE PROJECT NO. H.000286
ST. TAMMANY PARISH, LA / HANCOCK COUNTY, MS

LEGEND
- WILDLIFE MANAGEMENT AREA
- WETLANDS (EXCLUDED WATER OF THE U.S.)
- HISTORIC STRUCTURE
- REMOVAL

SHEET NUMBER
PARISH: ST. TAMMANY
CONTROL SECTION
STATE PROJECT: H.000286
DESIGNED
CHECKED
DETAILED
CHECKED
DATE SHEET: 03-09-17 2 OF 2
REVISION DESCRIPTION
NO. DATE BY

EAST PEARL RIVER BRIDGE
MOVABLE BRIDGE ALTERNATIVES
PLAN VIEW
EAST PEARL RIVER BRIDGE

DOTD DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

EW_Lay_ EP_Mov_2.dgn

OPTION 2: GOOSENECK FRONTAGE ROAD OPTION

N
SCALE: 1" = 100'

480+00 485+00 490+00 495+00 500+00 505+00 510+00 515+00 520+00 525+00 530+00 535+00 540+00 545+00

EXIST. R/W

EAST PEARL RIVER

REQ'D R/W

EXIST. R/W

MS 604

120' SINGLE LANE ROUNDABOUT

BAY ST. LOUIS

COWAN BAYOU

END BRIDGE

LSQ.

BOAT LAUNCH ACCESS

US 90

NEW ORLEANS

BEGIN BRIDGE

500'

EXIST. US 90

BOAT LAUNCH

EXIST. R/W

HOVEY ISLAND MARINA RD.

RIVERSIDE DR.

TAHITI RD.

100 50 0 100
GRAPHIC SCALE
SCALE: 1"=100'

PRELIMINARY PLANS

PRELIMINARY
FOR REVIEW ONLY

NEEL-SCHAFFER, INC.

ENGINEER: DONALD YOUNG, P.E.
LICENSE #: 31295
DATE: 12/23/2020

OPTION 1: LOOP ROAD OPTION

N
SCALE: 1" = 100'

480+00 485+00 490+00 495+00 500+00 505+00 510+00 515+00 520+00 525+00 530+00 535+00 540+00 545+00

EXIST. R/W

EAST PEARL RIVER

120' SINGLE LANE ROUNDABOUT

NEW MS 604

REQ'D MS 604 R/W

BAY ST. LOUIS

COWAN BAYOU

END BRIDGE

LSQ.

BOAT LAUNCH ACCESS

US 90

NEW ORLEANS

BEGIN BRIDGE

500'

EXIST. US 90

BOAT LAUNCH

EXIST. R/W

HOVEY ISLAND MARINA RD.

RIVERSIDE DR.

TAHITI RD.

100 50 0 100
GRAPHIC SCALE
SCALE: 1"=100'

FIGURE 2-13
Page 2-56

LONG SPAN BRIDGE ALTERNATIVES
STATE PROJECT NO. H.000284
US 90: EAST PEARL RIVER BRIDGE
ST. TAMMANY PARISH

LEGEND
- HISTORIC STRUCTURE
- WETLANDS (EXCLUDED WATER OF THE U.S.)
- LIMITS OF CONSTRUCTION
- REQ'D R/W
- POTENTIAL BUSINESS TAKING
- PROPERTY WOULD NO LONGER HAVE DIRECT ACCESS TO US 90
- PROPOSED BRIDGE
- WILDLIFE MANAGEMENT AREA
- NATIONAL REGISTER PROPERTY LIMITS
- EXIST. R/W
- REMOVAL

Federal Highway Administration
DOTD
MDOT

120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20 -30

BEGIN BRIDGE STA. 485+59.45

320'-0" (8 P/S QUAD GIRDER SPANS @ 40')

2280'-0" (19 P/S BULB TEE GIRDER SPANS @ 120')
(5 @ 360'-0" CONTINUOUS UNITS, 2 @ 240'-0" CONTINUOUS UNITS)

TOTAL BRIDGE LENGTH
5660'-0"

@ 980'-0" (300'-380'-300')
CONTINUOUS WELDED STEEL PLATE GIRDER SPANS

1800'-0" (15 P/S BULB TEE GIRDER SPANS @ 120')
(1 @ 360'-0" CONTINUOUS UNIT, 10 @ 120'-0" SIMPLE SPANS, 1 @ 240'-0" CONTINUOUS UNIT)

280'-0" (7 P/S QUAD GIRDER SPANS @ 40')

END BRIDGE STA. 542+19.45

FINISHED GRADE

PVI STA. 517+07.27
ELEV. 107.00

115'

VERTICAL CLEARANCE 73'

LOW CHORD EL. = 74.35' (1988 NAVD)
115' NAVIGATIONAL CLEARANCE

MHW ELEV. 1.35'

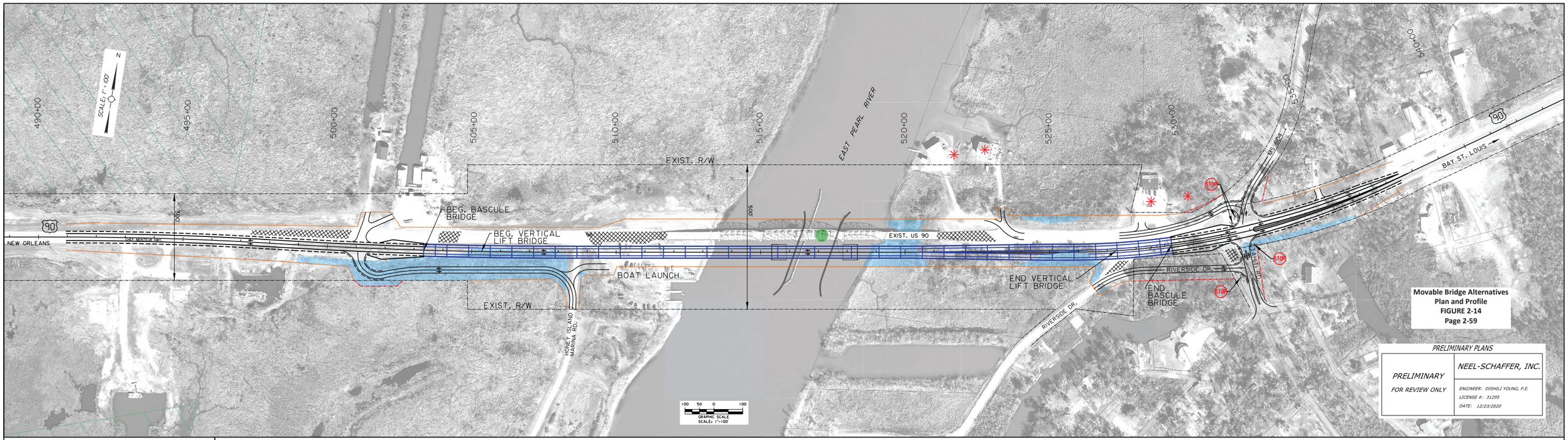
EAST PEARL RIVER

EXIST. GROUND (LIDAR)

PVI STA. 484+57.27
ELEV. 8.00

PVI STA. 542+32.27
ELEV. 8.00

480+00 485+00 490+00 495+00 500+00 505+00 510+00 515+00 520+00 525+00 530+00 535+00 540+00 545+00



Movable Bridge Alternatives
Plan and Profile
FIGURE 2-14
Page 2-59

PRELIMINARY PLANS

PRELIMINARY *FOR REVIEW ONLY*	*NEEL-SCHAFFER, INC.*
	ENGINEER: DISHILI YOUNG, P.E.
	LICENSE #: 31295
	DATE: 12/23/2020

MOVABLE BRIDGE ALTERNATIVES
STATE PROJECT NO. H.000284
US 90: MIDDLE PEARL RIVER BRIDGES
ST. TAMMANY PARISH

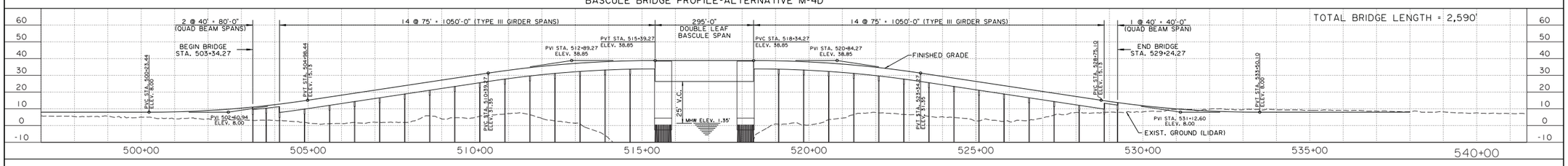
LEGEND

- HISTORIC STRUCTURE
- WILDLIFE MANAGEMENT AREA
- WETLANDS (EXCLUDED WATER OF THE U.S)
- PROPOSED BRIDGE
- REMOVAL
- REQ'D R'W
- LIMITS OF CONSTRUCTION
- EXIST. R/W

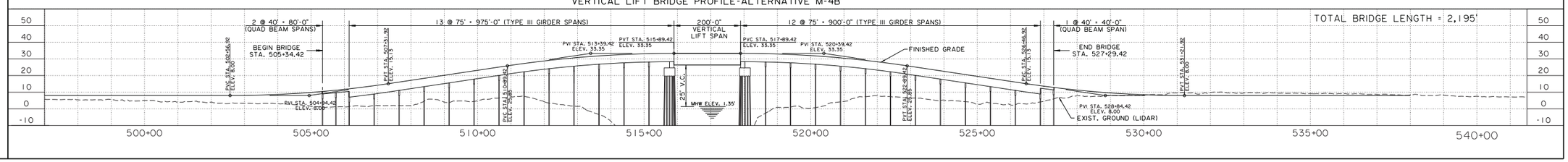
✳ PROPERTY WOULD NO LONGER HAVE DIRECT ACCESS TO US 90

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT
MDOT
Federal Highway Administration

BASCULE BRIDGE PROFILE-ALTERNATIVE M-4D

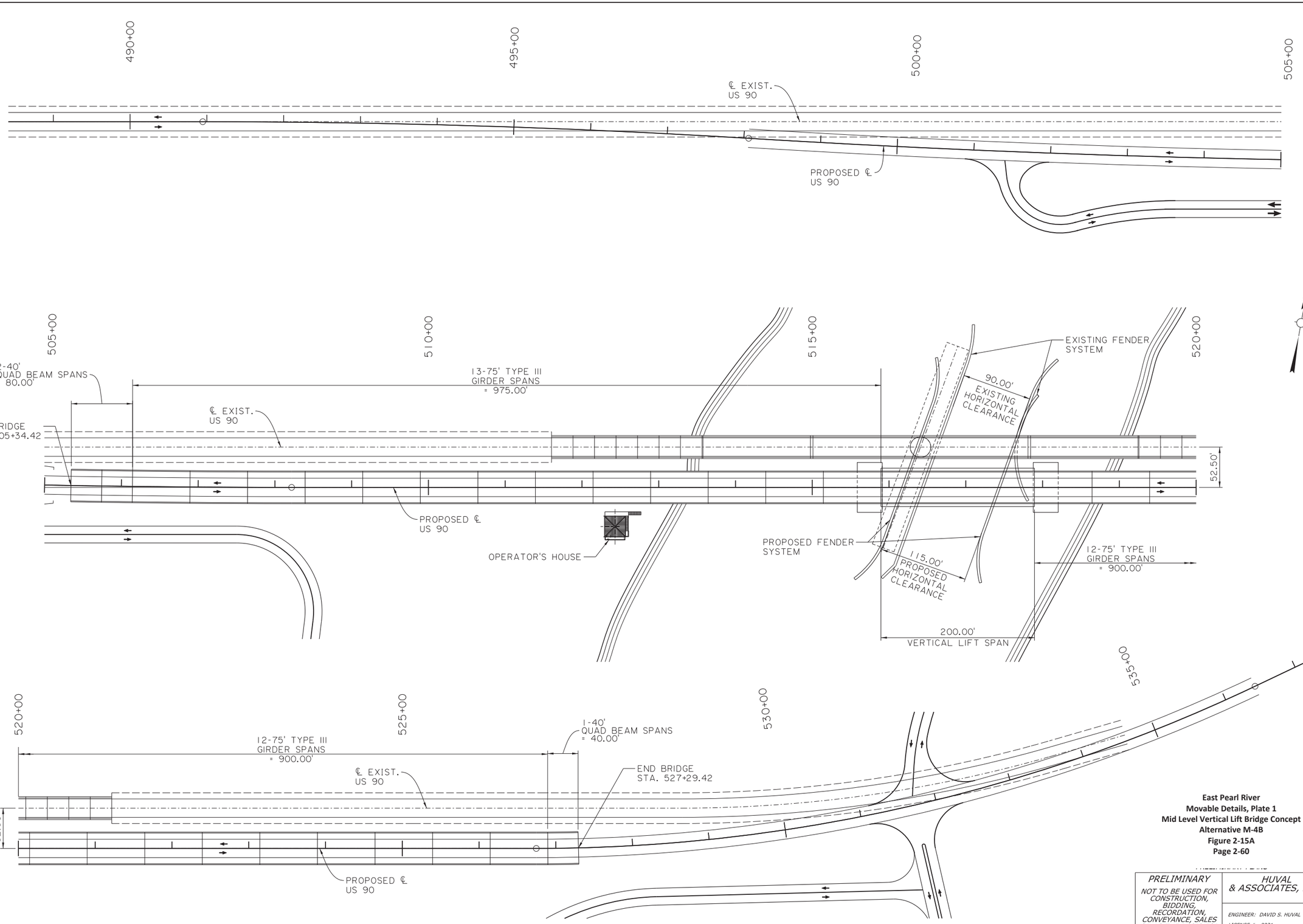


VERTICAL LIFT BRIDGE PROFILE-ALTERNATIVE M-4B



PRELIMINARY PLANS

X:\HUVAL Projects\6106 (US 90 @ Pearl River EA)\05-Working Drawings\02-Border to Print\East Pearl Public Meeting\3_Midlevel Vertical Lift\42 Plan.dgn 10:35:57 AM



PLAN - MIDLEVEL VERTICAL LIFT OPTION

SCALE: 1" = 60'

East Pearl River
Movable Details, Plate 1
Mid Level Vertical Lift Bridge Concept
Alternative M-4B
Figure 2-15A
Page 2-60

PRELIMINARY	HUVAL & ASSOCIATES, INC.
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	*ENGINEER: DAVID S. HUVAL* *LICENSE #: 9931* *DATE: 9/12/2016*

SHEET NUMBER	4
PARISH	ST. TAMMANY
CONTROL SECTION	006-07
STATE PROJECT	H.000284 & H.000286
DESIGNED / CHECKED	MCH / WLH
DETAILED / CHECKED	MCH / TMG
SERIES NUMBER	1 OF 3

NO.	REVISION OR CHANGE ORDER DESCRIPTION	DATE	BY

MIDLEVEL VERTICAL LIFT PLAN

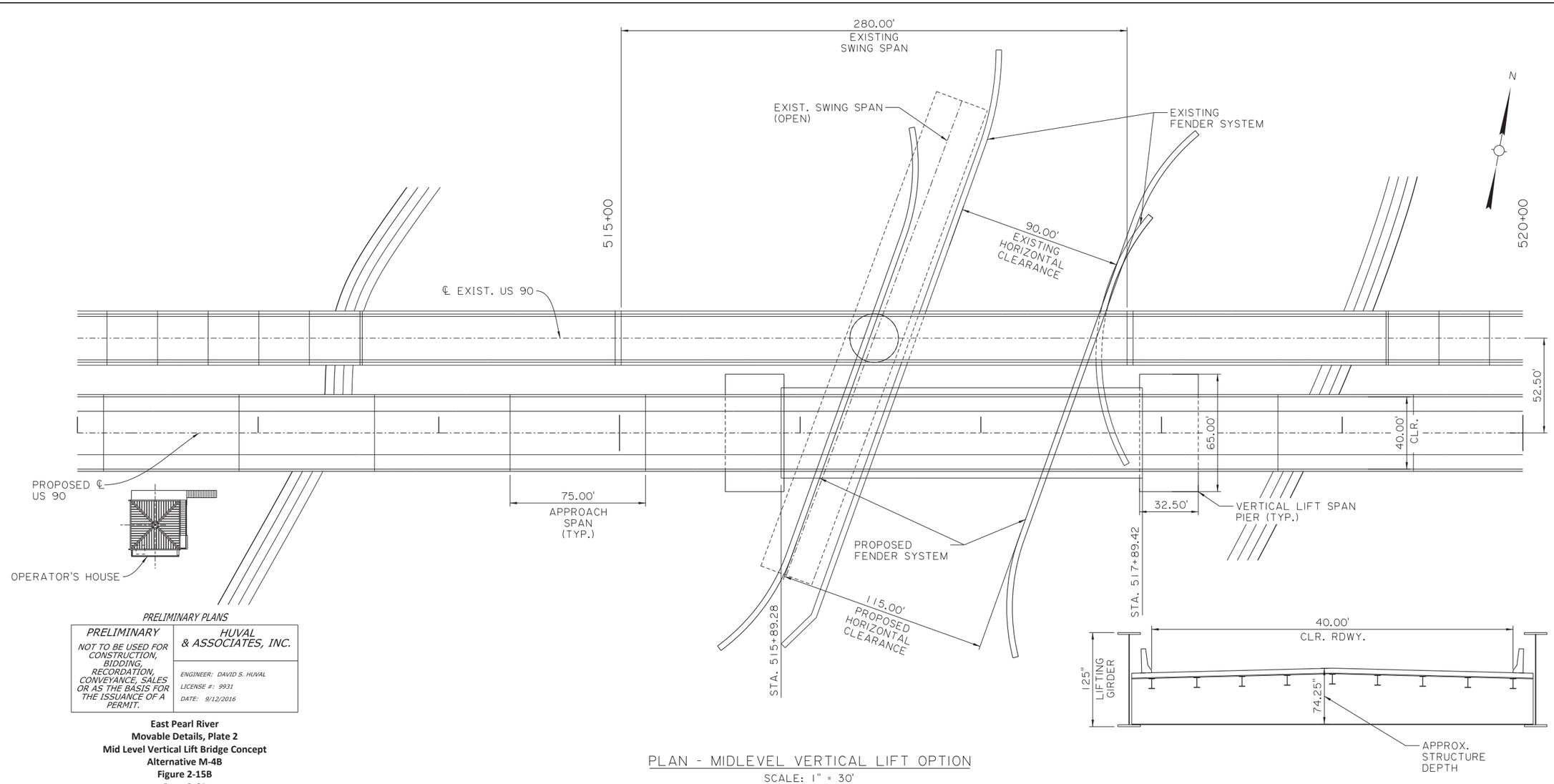
EAST PEARL RIVER

US 90 @ PEARL RIVER EA

DOTD

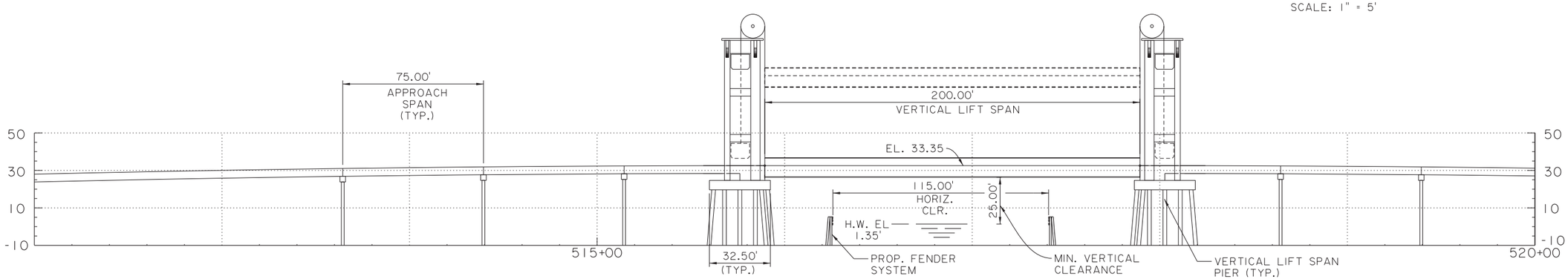
HUVAL & ASSOCIATES, INC. Consulting Engineers

PRELIMINARY PLANS
X:\HUVAL Projects\6106 (US 90 @ Pearl River EA)\05-Working Drawings\02-Border to Print\East Pearl Public Meeting\4_Midlevel Vertical Details.dgn 9/12/2016 10:39:32 AM



PLAN - MIDLEVEL VERTICAL LIFT OPTION
SCALE: 1" = 30'

SECTION - VERTICAL LIFT SPAN
SCALE: 1" = 5'



PROFILE - MIDLEVEL VERTICAL LIFT OPTION
SCALE: 1" = 30'

PRELIMINARY PLANS

PRELIMINARY	*HUVAL & ASSOCIATES, INC.*
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	*ENGINEER: DAVID S. HUVAL* *LICENSE #: 9931* *DATE: 9/12/2016*

East Pearl River
Movable Details, Plate 2
Mid Level Vertical Lift Bridge Concept
Alternative M-4B
Figure 2-15B
Page 2-61

SHEET NUMBER	5
PARISH	ST. TAMMANY
CONTROL SECTION	006-07
STATE PROJECT	H.000284 & H.000286
DESIGNED MCH / CHECKED WLH	SERIES NUMBER 2 OF 3
DETAILED MCH / CHECKED TMG	

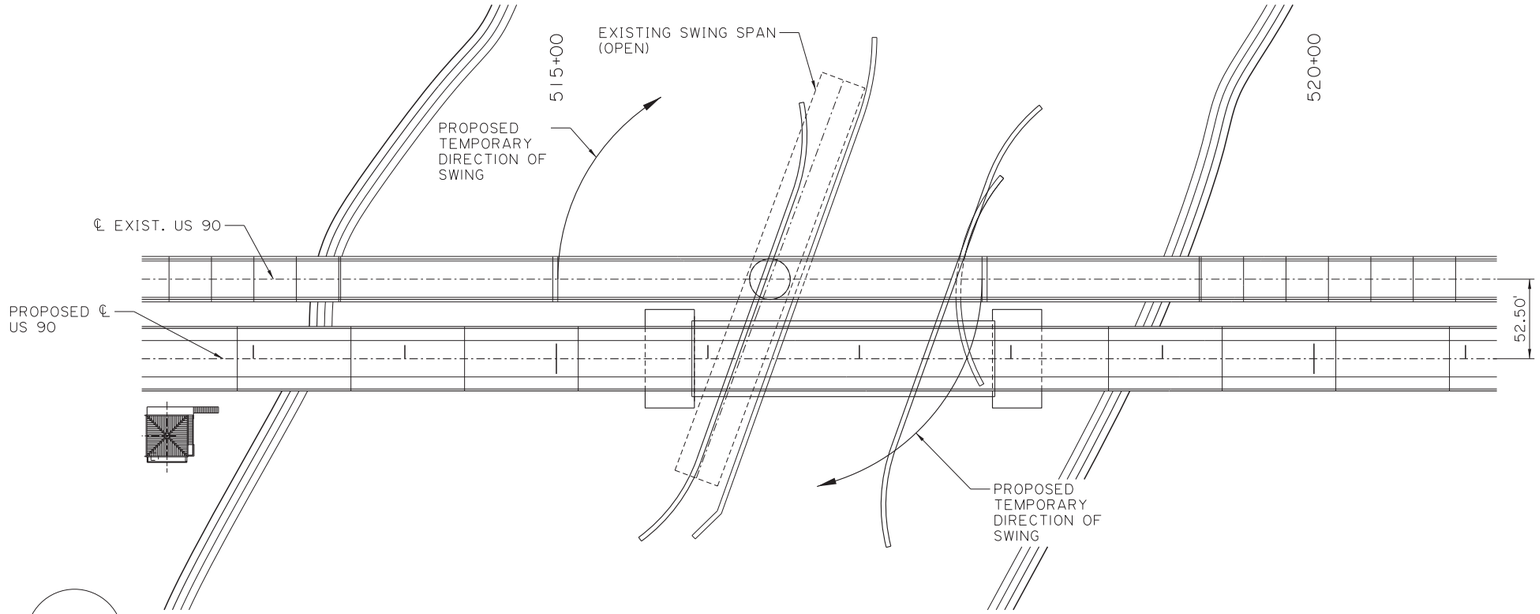
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

MID-LEVEL VERTICAL LIFT DETAILS
EAST PEARL RIVER
US 90 @ PEARL RIVER EA

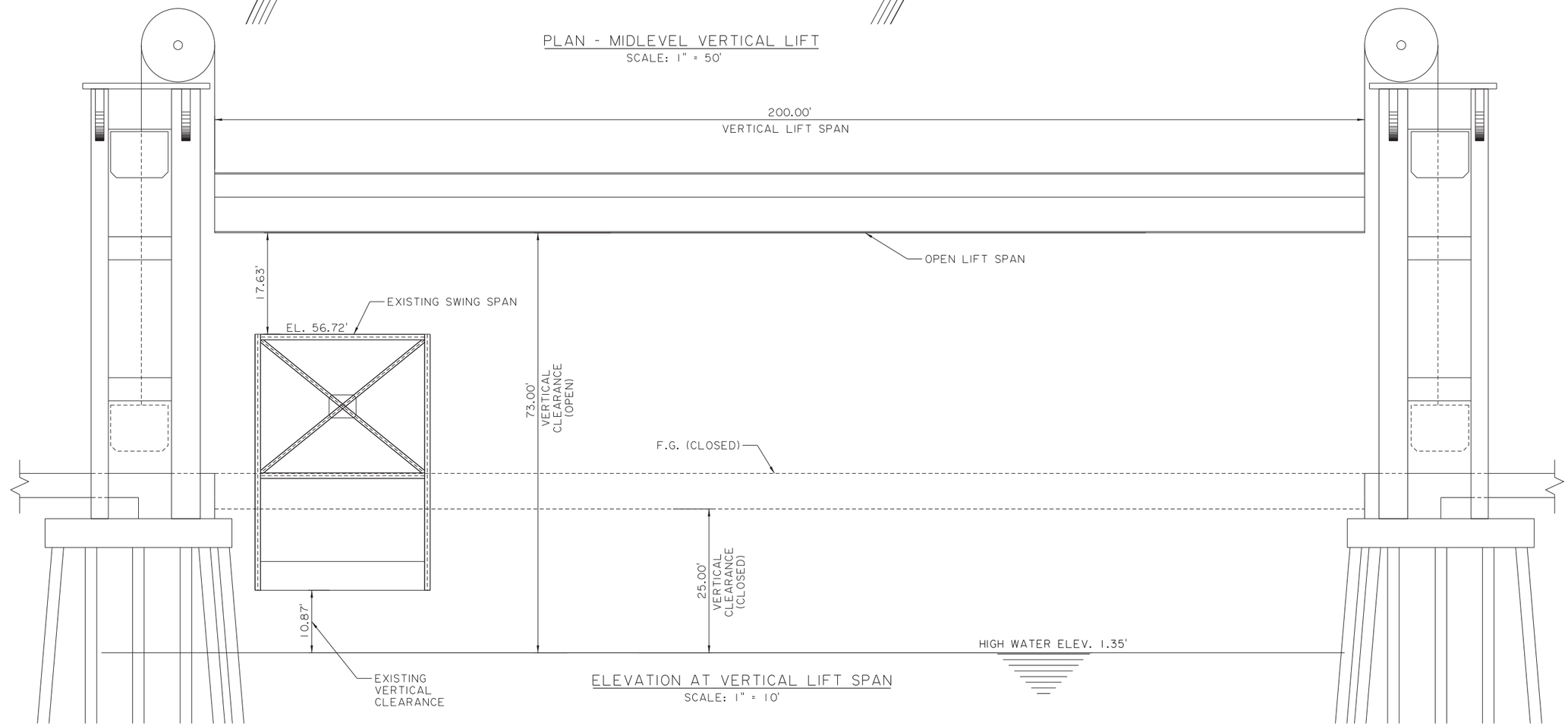
DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

HUVAL
& ASSOCIATES, INC.
Consulting Engineers

PRELIMINARY PLANS
X:\HUVAL Projects\6106 (US 90 @ Pearl River EA)\05-Working Drawings\02-Border to Print\East Pearl Public Meeting\MidLevel Vertical Lift_2x1.dgn 10/4/2016 Span Clearance



PLAN - MIDLEVEL VERTICAL LIFT
SCALE: 1" = 50'



ELEVATION AT VERTICAL LIFT SPAN
SCALE: 1" = 10'

PRELIMINARY PLANS

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	HUVAL & ASSOCIATES, INC. ENGINEER: DAVID S. HUVAL LICENSE #: 9931 DATE: 9/12/2016

East Pearl River
Movable Details, Plate 3
Mid Level Vertical Lift Bridge Concept
Alternative M-4B
Figure 2-15C
Page 2-62

NOTE:

THE PROPOSED VERTICAL LIFT SPAN IS TO BE BUILT IN THE OPEN POSITION IN ORDER TO ALLOW CONTINUED USE OF THE EXISTING SWING SPAN STRUCTURE.

THIS WILL RESULT IN MINIMAL DISTRUPTIONS TO MARINE TRAFFIC IN THE CHANNEL.

SHEET NUMBER	6
PARISH	ST. TAMMANY
CONTROL SECTION	006-07
STATE PROJECT	H.000284 & H.000286
DESIGNED MCH / CHECKED WLH	
DETAILED MCH / CHECKED TMG	
SERIES NUMBER	3 OF 3

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

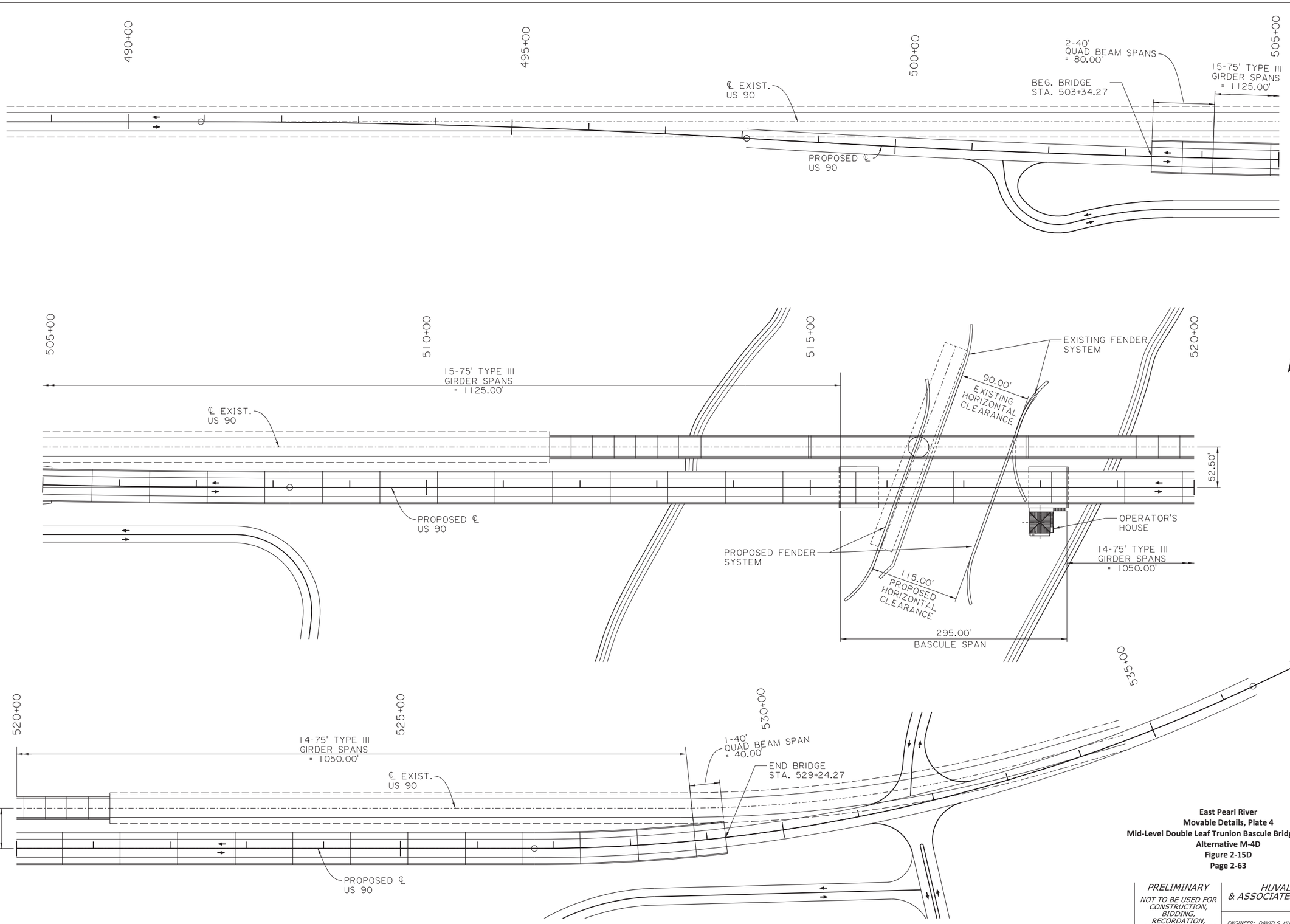
MIDLEVEL VERTICAL LIFT
EXIST. SWING SPAN CLEARANCE
EAST PEARL RIVER
US 90 @ PEARL RIVER EA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

HUVAL
& ASSOCIATES, INC.
Consulting Engineers

PRELIMINARY PLANS

X:\HUVAL Projects\6106 (US 90 @ Pearl River EA)\05-Working Drawings\02-Border to Print\East Pearl Public Meeting\1_Midlevel Bascule 9/12/2016 9:26:10 A



PLAN - MIDLEVEL DOUBLE LEAF TRUNION BASCULE OPTION

SCALE: 1" = 60'

East Pearl River
Movable Details, Plate 4
Mid-Level Double Leaf Trunion Bascule Bridge Concept
Alternative M-4D
Figure 2-15D
Page 2-63

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

HUVAL & ASSOCIATES, INC.
ENGINEER: DAVID S. HUVAL
LICENSE #: 9931
DATE: 9/12/2016

SHEET NUMBER	1
PARISH	ST. TAMMANY
CONTROL SECTION	006-07
STATE PROJECT	H.000284 & H.000286
DESIGNED MCH / CHECKED WLH	
DETAILED MCH / CHECKED TMG	
SERIES NUMBER	1 OF 3

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

MIDLEVEL DOUBLE LEAF TRUNION BASCULE PLAN

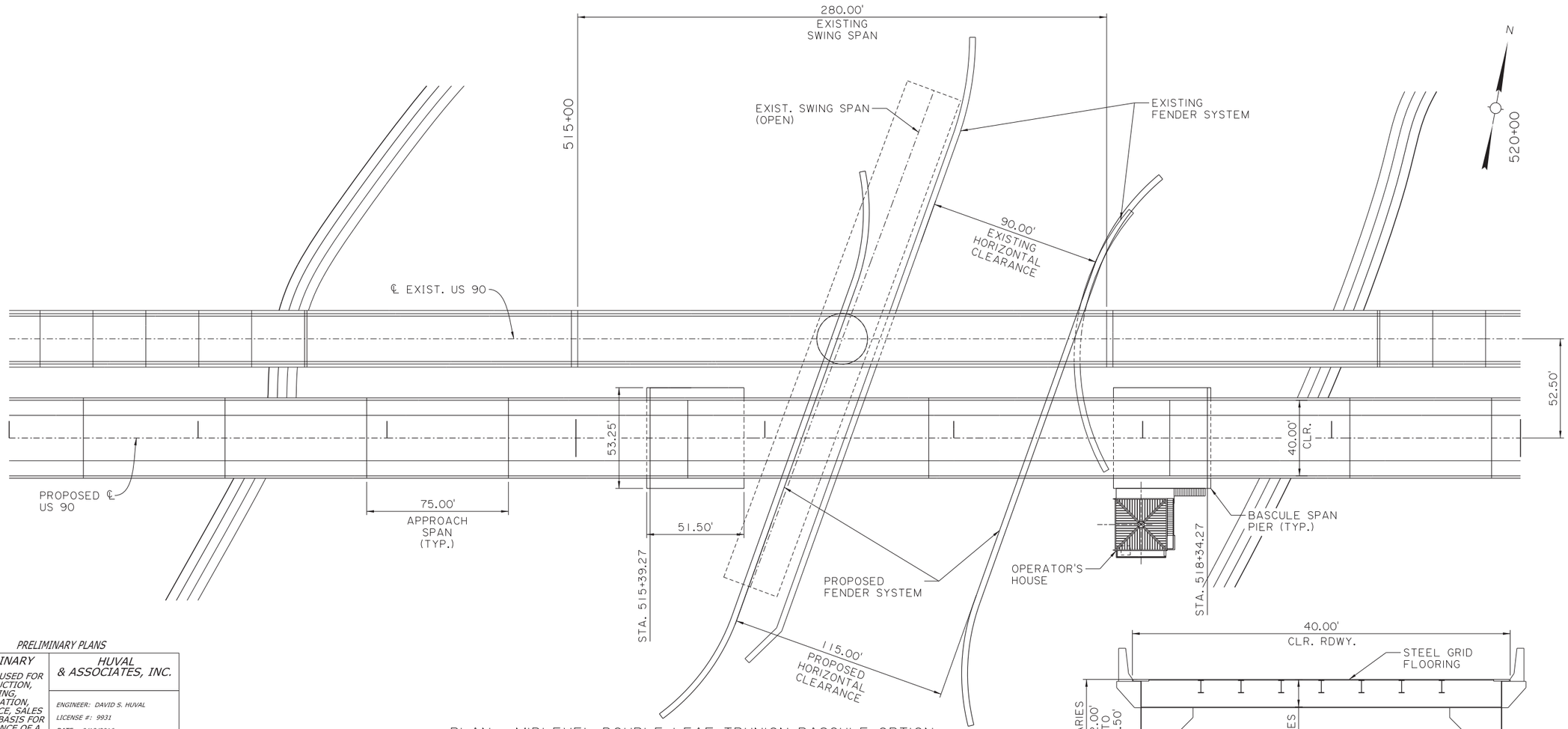
EAST PEARL RIVER

US 90 @ PEARL RIVER EA

DOTD

HUVAL & ASSOCIATES, INC. Consulting Engineers

PRELIMINARY PLANS
X:\HUVAL Projects\6106 (US 90 @ Pearl River EA)\05-Working Drawings\02-Border to Print\East Pearl Public Meeting\2_Midlevel Bascule Details.dgn 9/28/2016 9:28:10

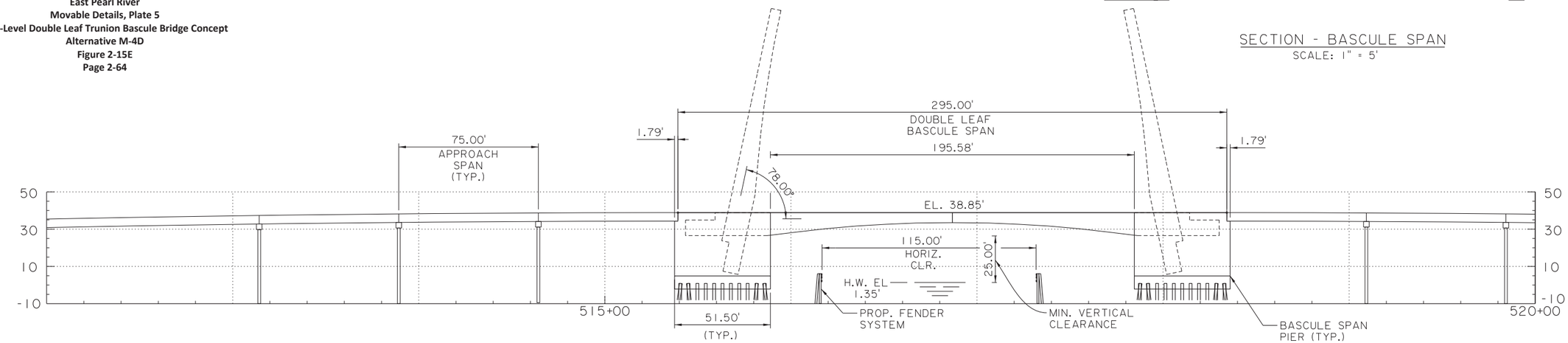


PLAN - MIDLEVEL DOUBLE LEAF TRUNION BASCULE OPTION

SCALE: 1" = 30'

SECTION - BASCULE SPAN

SCALE: 1" = 5'



PROFILE - MIDLEVEL DOUBLE LEAF TRUNION BASCULE OPTION

SCALE: 1" = 30'

PRELIMINARY PLANS

PRELIMINARY	*HUVAL & ASSOCIATES, INC.*
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.	*ENGINEER: DAVID S. HUVAL* *LICENSE #: 9931* *DATE: 9/12/2016*

East Pearl River
Movable Details, Plate 5
Mid-Level Double Leaf Trunion Bascule Bridge Concept
Alternative M-4D
Figure 2-15E
Page 2-64

SHEET NUMBER	2
PARISH	ST. TAMMANY
CONTROL SECTION	006-07
STATE PROJECT	H.000284 & H.000286
DESIGNED MCH / CHECKED WLH	
DETAILED MCH / CHECKED TMG	
SERIES NUMBER	2 OF 3

REVISION OR CHANGE ORDER DESCRIPTION | BY | DATE | NO.

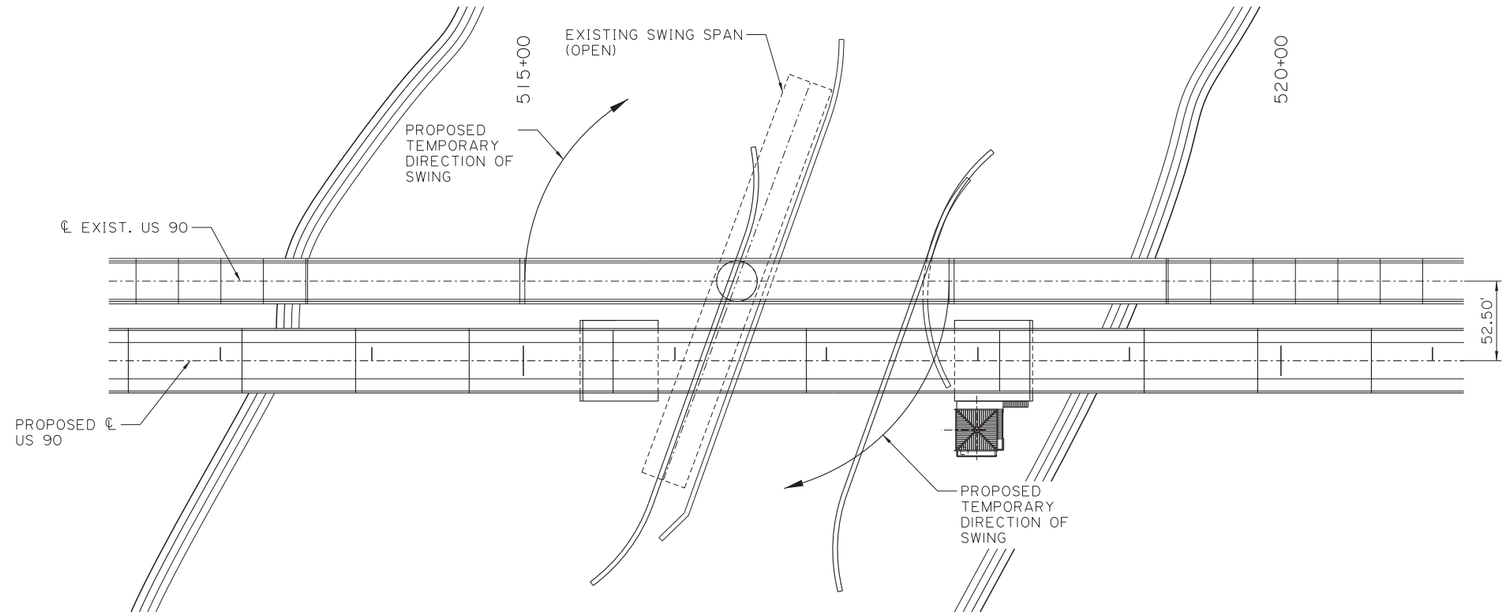
MIDLEVEL DOUBLE LEAF
TRUNION BASCULE DETAILS
EAST PEARL RIVER
US 90 @ PEARL RIVER EA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

HUVAL
& ASSOCIATES, INC.
Consulting Engineers

PRELIMINARY PLANS

X:\HUVAL Projects\6106 (US 90 @ Pearl River EA)\05-Working Drawings\02-Border to Print\East Pearl Public Meeting\MidLevel Bascule_Swing Span Clearance 8-29-16



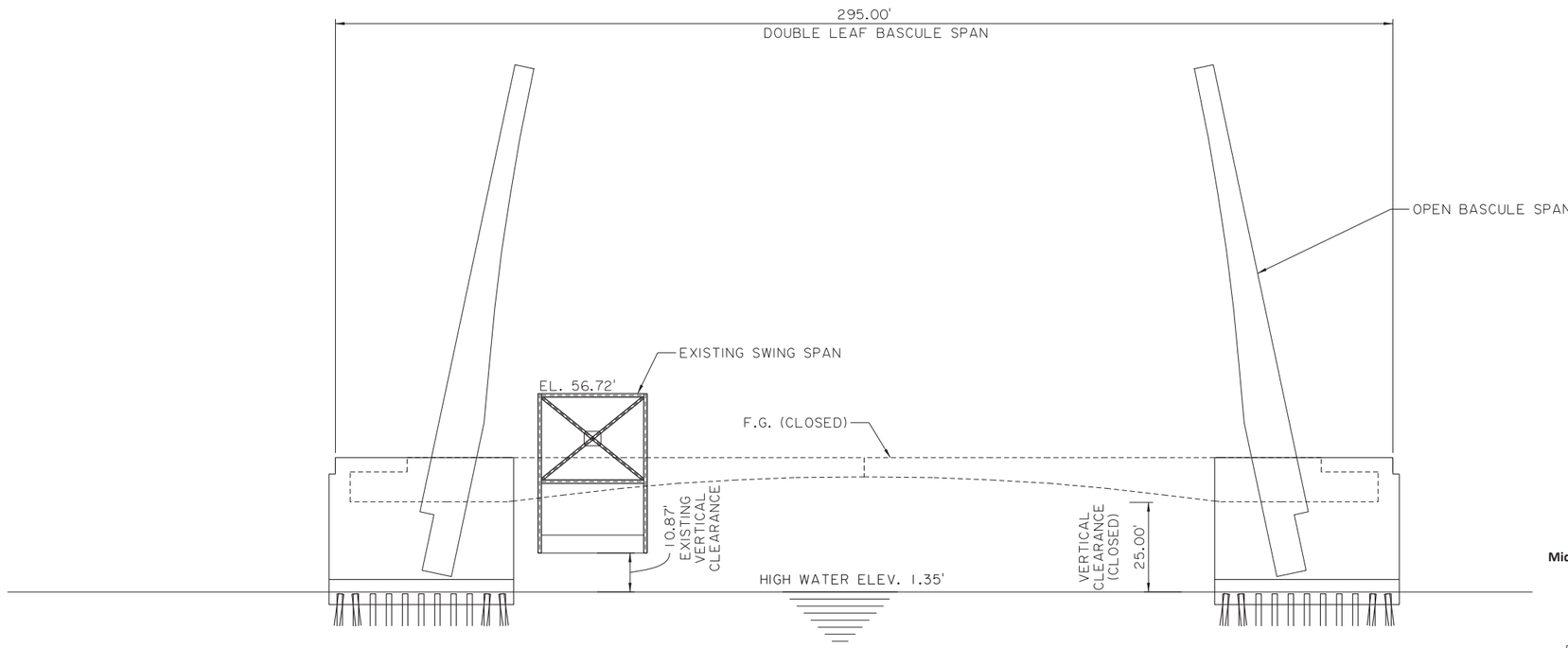
PLAN - MIDLEVEL DOUBLE LEAF TRUNION BASCULE

SCALE: 1" = 50'

NOTE:

THE PROPOSED DOUBLE LEAF BASCULE SPAN IS TO BE BUILT IN THE OPEN POSITION IN ORDER TO ALLOW CONTINUED USE OF THE EXISTING SWING SPAN STRUCTURE.

THIS WILL RESULT IN MINIMAL DISTRUPTIONS TO MARINE TRAFFIC IN THE CHANNEL.



ELEVATION AT BASCULE SPAN

SCALE: 1" = 10'

East Pearl River
Movable Details, Plate 6
Mid-Level Double Leaf Trunion Bascule Bridge Concept
Alternative M-4D
Figure 2-15F
Page 2-65

PRELIMINARY PLANS

PRELIMINARY *NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.*	*HUVAL & ASSOCIATES, INC.* *ENGINEER: DAVID S. HUVAL* *LICENSE #: 9931* *DATE: 9/12/2016*

SHEET NUMBER	3
PARISH	ST. TAMMANY
CONTROL SECTION	006-07
STATE PROJECT	H.000284 & H.000286
DESIGNED MCH / CHECKED WLH	
DETAILED MCH / CHECKED TMG	
SERIES NUMBER	3 OF 3

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

MIDLEVEL BASCULE
EXIST. SWING SPAN CLEARANCE
EAST PEARL RIVER
US 90 @ PEARL RIVER EA

DOTD
HUVAL & ASSOCIATES, INC.
Consulting Engineers