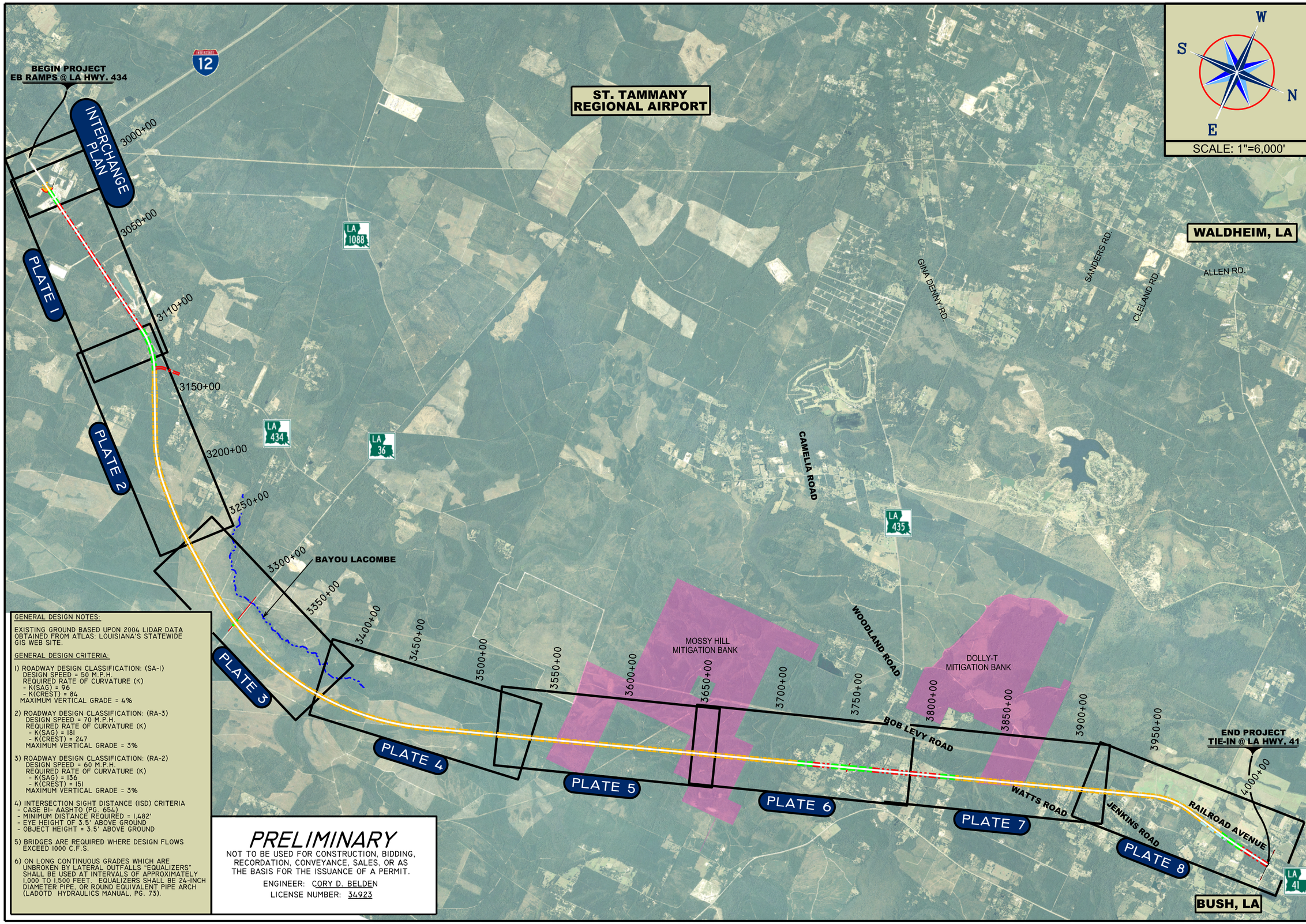


GENERAL DESIGN NOTES:

EXISTING GROUND BASED UPON 2004 LIDAR DATA OBTAINED FROM ATLAS: LOUISIANA'S STATEWIDE GIS WEB SITE.

GENERAL DESIGN CRITERIA:

1) ROADWAY DESIGN CLASSIFICATION: (SA-1)
   DESIGN SPEED = 50 M.P.H.
   REQUIRED RATE OF CURVATURE (K)
   - K(SAG) = 96
   - K(CREST) = 84
   MAXIMUM VERTICAL GRADE = 4%

2) ROADWAY DESIGN CLASSIFICATION: (RA-3)
   DESIGN SPEED = 70 M.P.H.
   REQUIRED RATE OF CURVATURE (K)
   - K(SAG) = 181
   - K(CREST) = 247
   MAXIMUM VERTICAL GRADE = 3%

3) ROADWAY DESIGN CLASSIFICATION: (RA-2)
   DESIGN SPEED = 60 M.P.H.
   REQUIRED RATE OF CURVATURE (K)
   - K(SAG) = 136
   - K(CREST) = 151
   MAXIMUM VERTICAL GRADE = 3%

4) INTERSECTION SIGHT DISTANCE (ISD) CRITERIA
   - CASE B1- AASHTO (PG. 654)
   - MINIMUM DISTANCE REQUIRED = 1,482'
   - EYE HEIGHT OF 3.5' ABOVE GROUND
   - OBJECT HEIGHT = 3.5' ABOVE GROUND

5) BRIDGES ARE REQUIRED WHERE DESIGN FLOWS EXCEED 1000 C.F.S.

6) ON LONG CONTINUOUS GRADES WHICH ARE UNBROKEN BY LATERAL OUTFALLS "EQUALIZERS" SHALL BE USED AT INTERVALS OF APPROXIMATELY 1,000 TO 1,500 FEET. EQUALIZERS SHALL BE 24-INCH DIAMETER PIPE, OR ROUND EQUIVALENT PIPE ARCH (LADOTD HYDRAULICS MANUAL, PG. 73).

PRELIMINARY

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

ENGINEER: CORY D. BELDEN

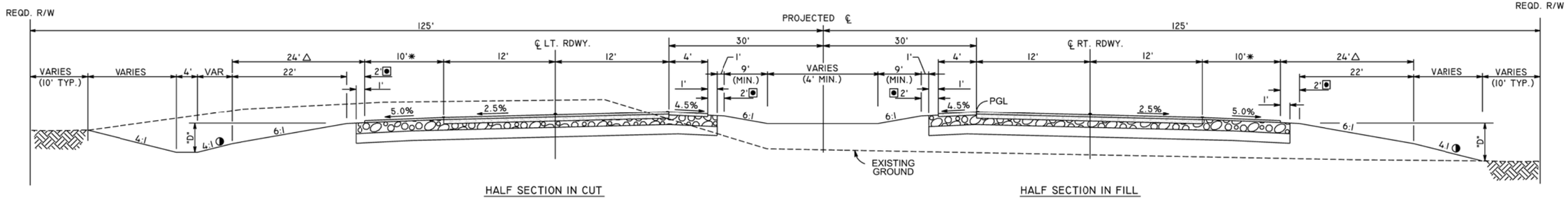
LICENSE NUMBER: 34923

PLATE INDEX

I-12 TO BUSH

ST. TAMMANY PARISH

ALTERNATIVE Q



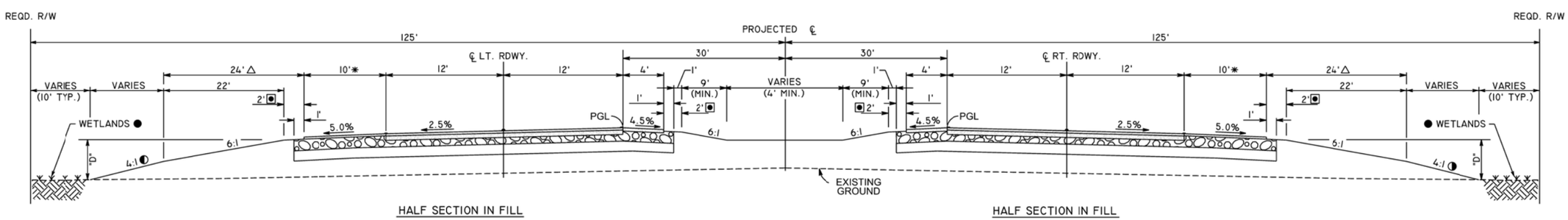
HALF SECTION IN CUT

HALF SECTION IN FILL

◑ 4:1 FORE SLOPES ALLOWED OUTSIDE OF CLEAR ZONE
△ TO BE CONSTRUCTED FREE OF OBSTRUCTIONS
◙ MAINTAIN ROADWAY SHOULDER SLOPE
✱ 2 - FOOT MINIMUM PAVED SHOULDER
FULL SHOULDER WIDTH TO BE PAVED FOR ADT OVER 5,000

TYPICAL SECTION

RURAL ARTERIAL (RA-3)
(DESIGN SPEED = 70 MPH)
(SEE PLATES FOR SECTION LIMITS)



HALF SECTION IN FILL

HALF SECTION IN FILL

TYPICAL SECTION (IN WETLANDS)

RURAL ARTERIAL (RA-3)
(DESIGN SPEED = 70 MPH)
(SEE PLATES FOR SECTION LIMITS)

◑ 4:1 FORE SLOPES ALLOWED OUTSIDE OF CLEAR ZONE
△ TO BE CONSTRUCTED FREE OF OBSTRUCTIONS
◙ MAINTAIN ROADWAY SHOULDER SLOPE
✱ 2 - FOOT MINIMUM PAVED SHOULDER
FULL SHOULDER WIDTH TO BE PAVED FOR ADT OVER 5,000
● ROADSIDE DITCHES SHALL NOT BE CONSTRUCTED IN WETLAND AREAS

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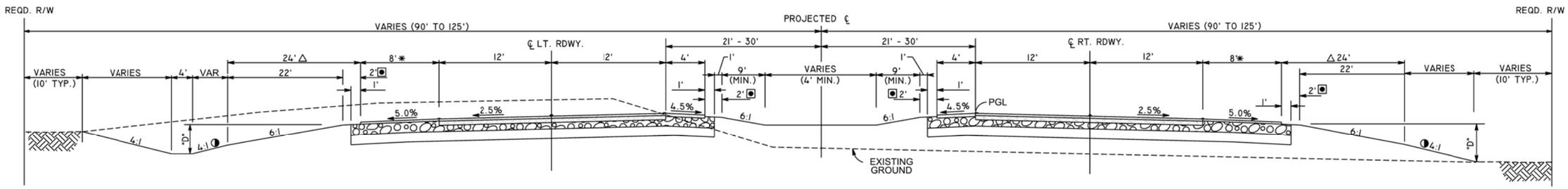
ENGINEER: CORY D. BELDEN
LICENSE NUMBER: 34923

NOTE: PAVEMENT SECTION TO BE DETERMINED DURING DESIGN PHASE.

TYPICAL ROADWAY SECTIONS

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE - Q



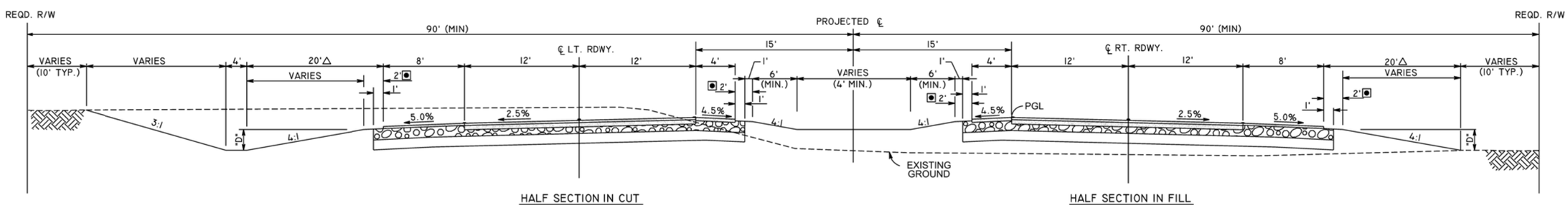
HALF SECTION IN CUT

HALF SECTION IN FILL

◑ TO BE USED WHEN "D" EXCEEDS 4'.
△ TO BE CONSTRUCTED FREE OF OBSTRUCTIONS
◉ MAINTAIN ROADWAY SHOULDER SLOPE
✱ 2 - FOOT MINIMUM PAVED SHOULDER
FULL PAVED SHOULDER SHOWN FOR CONSISTENCY WITH
EXISTING AND PROPOSED ROADWAY SECTIONS

TYPICAL SECTION

RURAL ARTERIAL (RA-2)
(DESIGN SPEED = 60 MPH)
(SEE PLATES FOR SECTION LIMITS)



HALF SECTION IN CUT

HALF SECTION IN FILL

△ TO BE CONSTRUCTED FREE OF OBSTRUCTIONS
◉ MAINTAIN ROADWAY SHOULDER SLOPE
✱ FOR ADT LESS THAN 2,000 SHOULDER WITDTH MAY BE 6 FT.

TYPICAL SECTION

SUBURBAN ARTERIAL (SA-1)
(DESIGN SPEED = 50 MPH)
(SEE PLATES FOR SECTION LIMITS)

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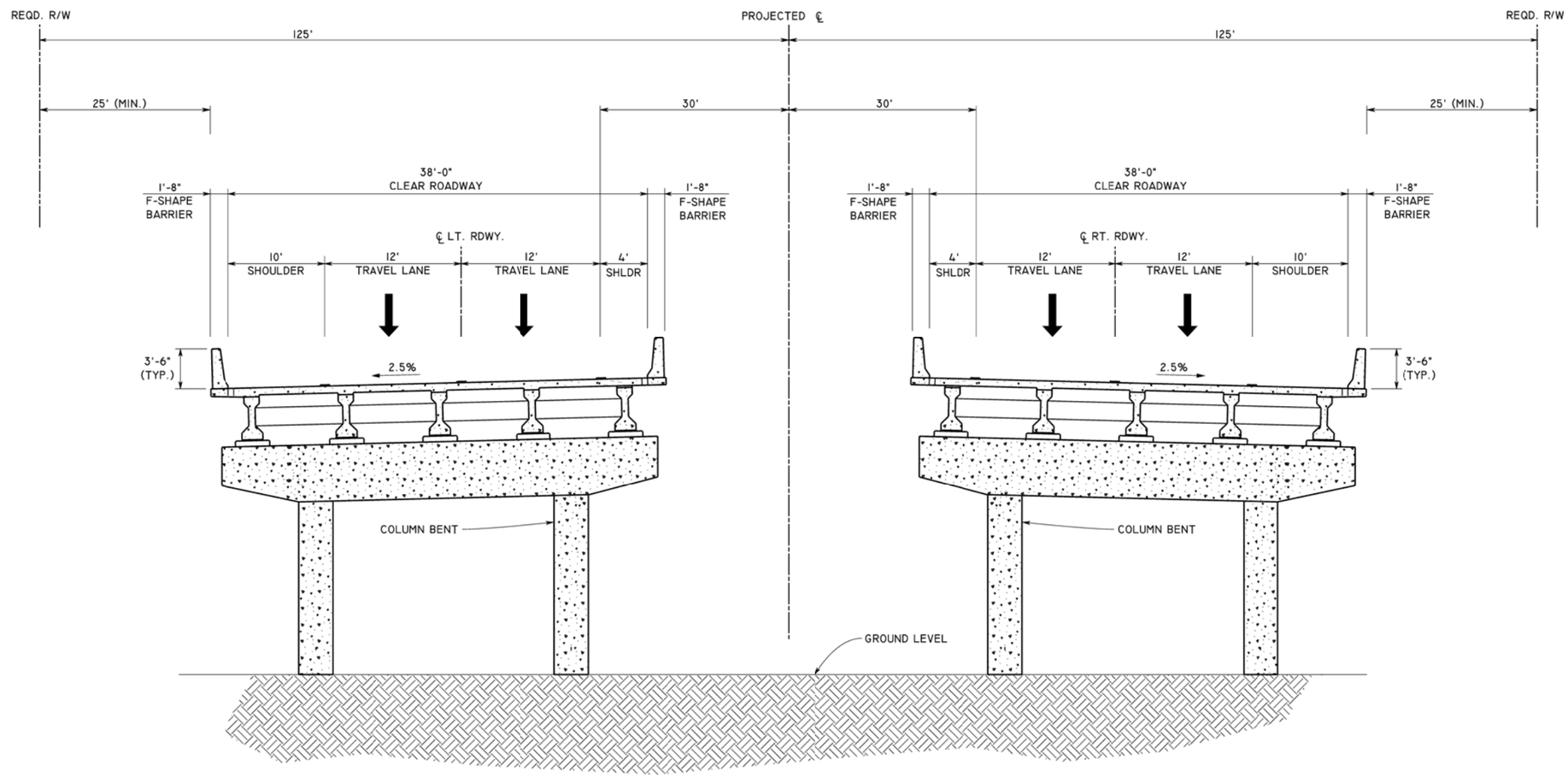
ENGINEER: CORY D. BELDEN
LICENSE NUMBER: 34923

NOTE: PAVEMENT SECTION TO BE DETERMINED DURING DESIGN PHASE.

TYPICAL ROADWAY SECTIONS

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE - Q



TYPICAL BRIDGE SECTION

RURAL ARTERIAL (RA-3)

(DESIGN SPEED = 70 MPH)

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ENGINEER: CORY D. BELDEN

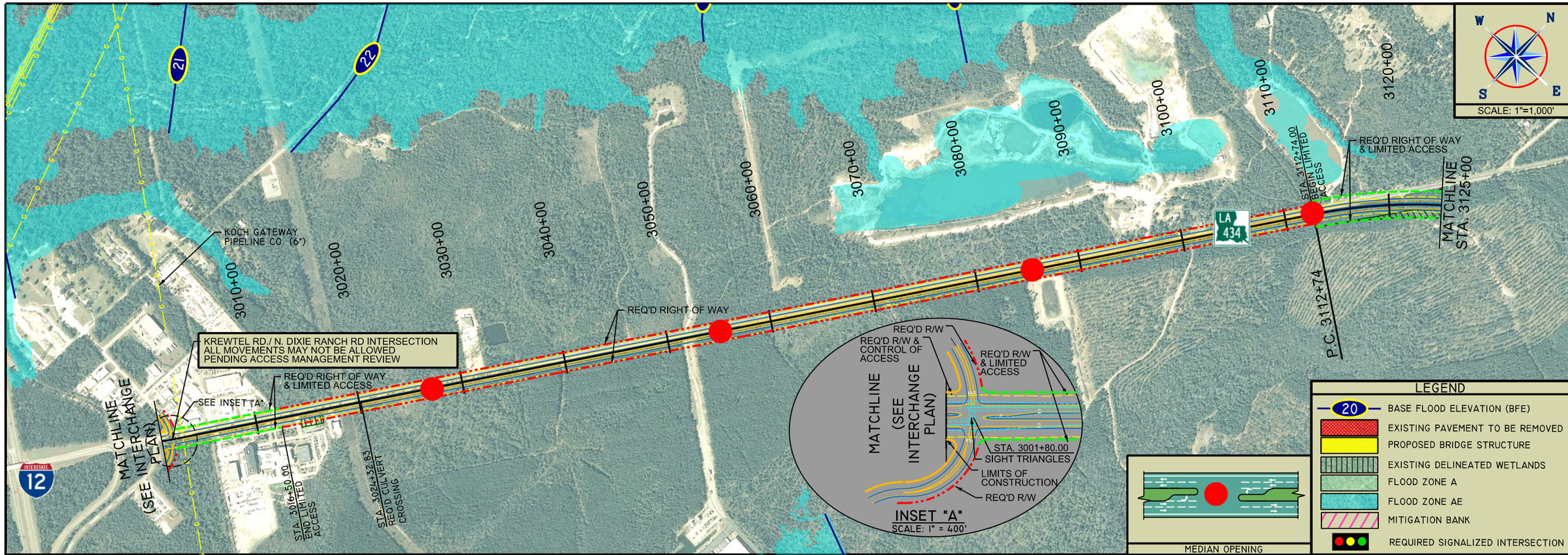
LICENSE NUMBER: 34923

TYPICAL BRIDGE SECTION

I-12 TO BUSH

ST. TAMMANY PARISH

ALTERNATIVE - Q



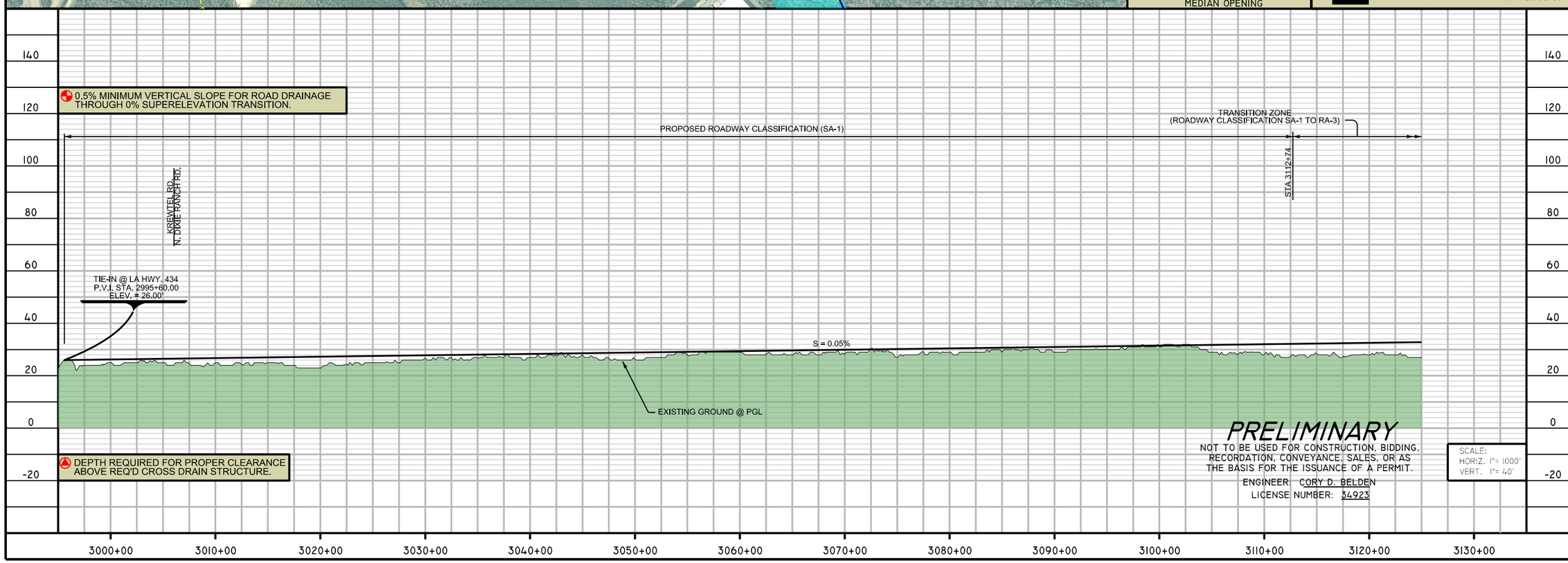
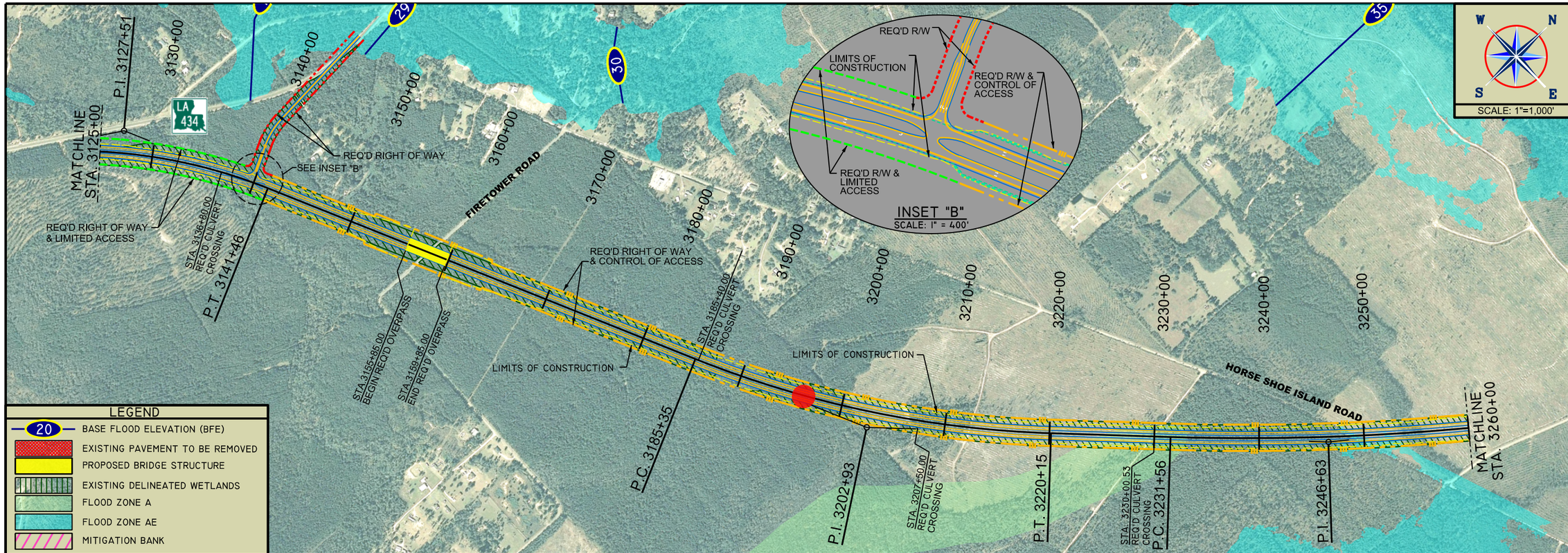
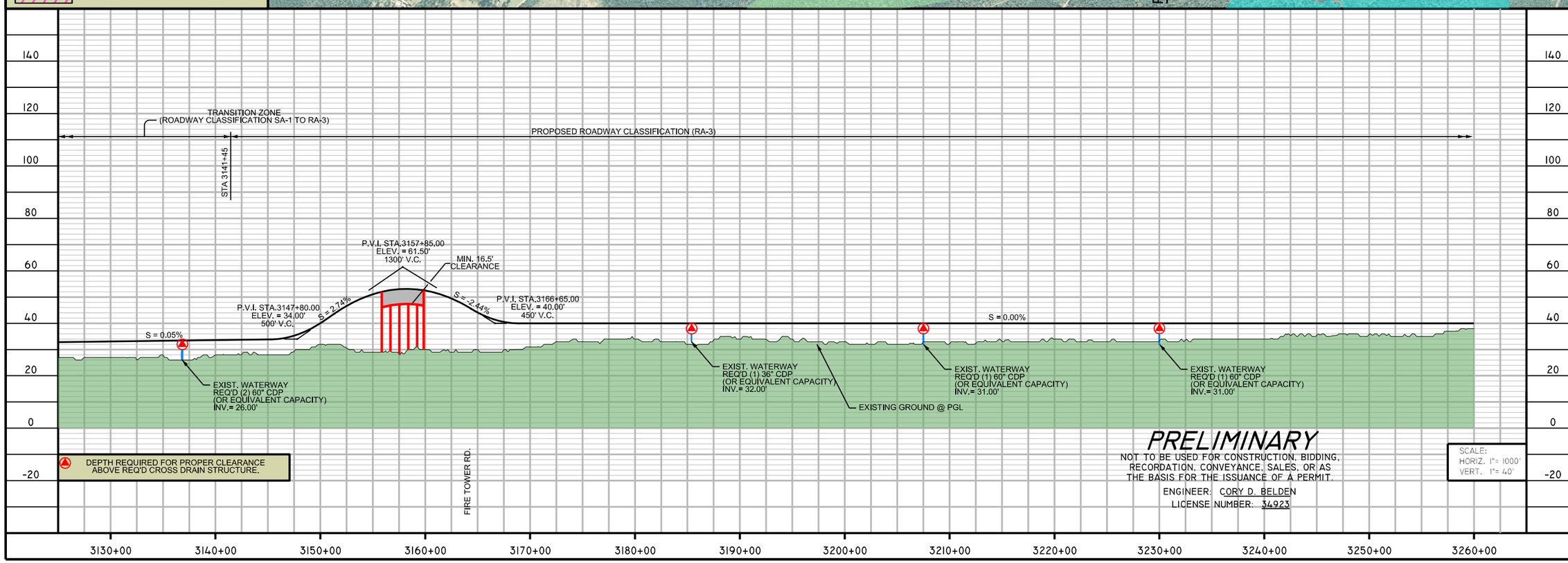


PLATE - 1

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE - Q





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ENGINEER: CORY D. BELDEN

LICENSE NUMBER: 34923

SCALE:
HORIZ. 1"= 1000'
VERT. 1"= 40'

PLATE - 2

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE - Q

PLATE - 3

GULF SOUTH PIPELINE CO. (30")
KOCH GATEWAY PIPELINE CO. (30")
GULF SOUTH PIPELINE CO. (30")
WFS-NLG PIPELINE CO.
LA 36
BAYOU LACOMBE
MATCHLINE STA. 3260+00
P.T. 3261+65
STA. 3270+28.02 REQ'D CULVERT CROSSING
P.C. 3292+37
SEE INSET "A"
STA. 3321+28.70
REQ'D RIGHT OF WAY & CONTROL OF ACCESS
LIMITS OF CONSTRUCTION
LIMITS OF CONSTRUCTION
REQ'D RIGHT OF WAY & CONTROL OF ACCESS
STA. 3355+38.11 REQ'D CULVERT CROSSING
R = 18,000'
STA. 3388+12.00 BEGIN REQ'D BRIDGE
MATCHLINE STA. 3390+00
P.I. 3389+07
3260+00 3270+00 3280+00 3290+00 3300+00 3310+00 3320+00 3330+00 3340+00 3350+00 3360+00 3370+00 3380+00 3390+00

SCALE: 1"=1,000'

REQ'D R/W & CONTROL OF ACCESS
REQ'D R/W & LIMITED ACCESS
STA. 3321+28.70
SIGHT TRIANGLES
REQ'D R/W & LIMITED ACCESS
REQ'D R/W & CONTROL OF ACCESS
INSET "A"
SCALE: 1" = 400'

LEGEND
- 20 BASE FLOOD ELEVATION (BFE)
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED BRIDGE STRUCTURE
- EXISTING DELINEATED WETLANDS
- FLOOD ZONE A
- FLOOD ZONE AE
- MITIGATION BANK

MEDIAN OPENING

PROPOSED ROADWAY CLASSIFICATION (RA-3)

0.5% MINIMUM VERTICAL SLOPE FOR ROAD DRAINAGE THROUGH 0% SUPERELEVATION TRANSITION.

DEPTH REQUIRED FOR PROPER CLEARANCE ABOVE REQ'D CROSS DRAIN STRUCTURE.

80 60 40 20 0 -20

S = 0.00%
P.V.I. STA.3293+85.00 ELEV. = 41.50' 300' V.C.
S = 0.00%
P.V.I. STA.3290+85.00 ELEV. = 40.00' 300' V.C.
P.V.I. STA.3300+00.00 ELEV. = 41.50' 300' V.C.
S = 0.11%
P.V.I. STA.3355+00.00 ELEV. = 47.50' 300' V.C.
S = 0.00%
BAYOU LACOMBE TRIBUTARY

EXIST. WATERWAY REQ'D (1) 48" CDP (OR EQUIVALENT CAPACITY) INV.= 32.00'
EXISTING GROUND @ PGL
EXIST. WATERWAY REQ'D (4) 52" CDP (OR EQUIVALENT CAPACITY) INV.= 37.00'
EXIST. WATERWAY REQ'D BRIDGE (500 FT)
W.L. @ 40.29'

3260+00 3270+00 3280+00 3290+00 3300+00 3310+00 3320+00 3330+00 3340+00 3350+00 3360+00 3370+00 3380+00 3390+00

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ENGINEER: CORY D. BELDEN
LICENSE NUMBER: 34923

SCALE:
HORIZ. 1"= 1000'
VERT. 1"= 40'

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE - Q

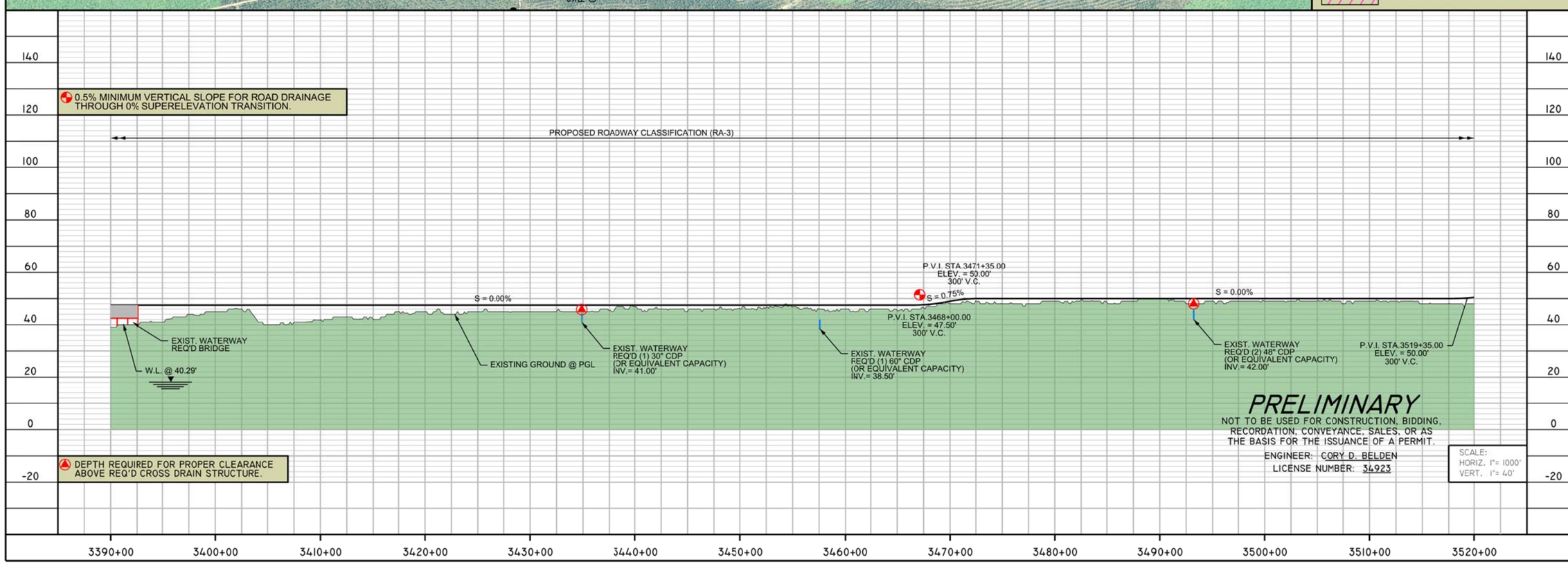

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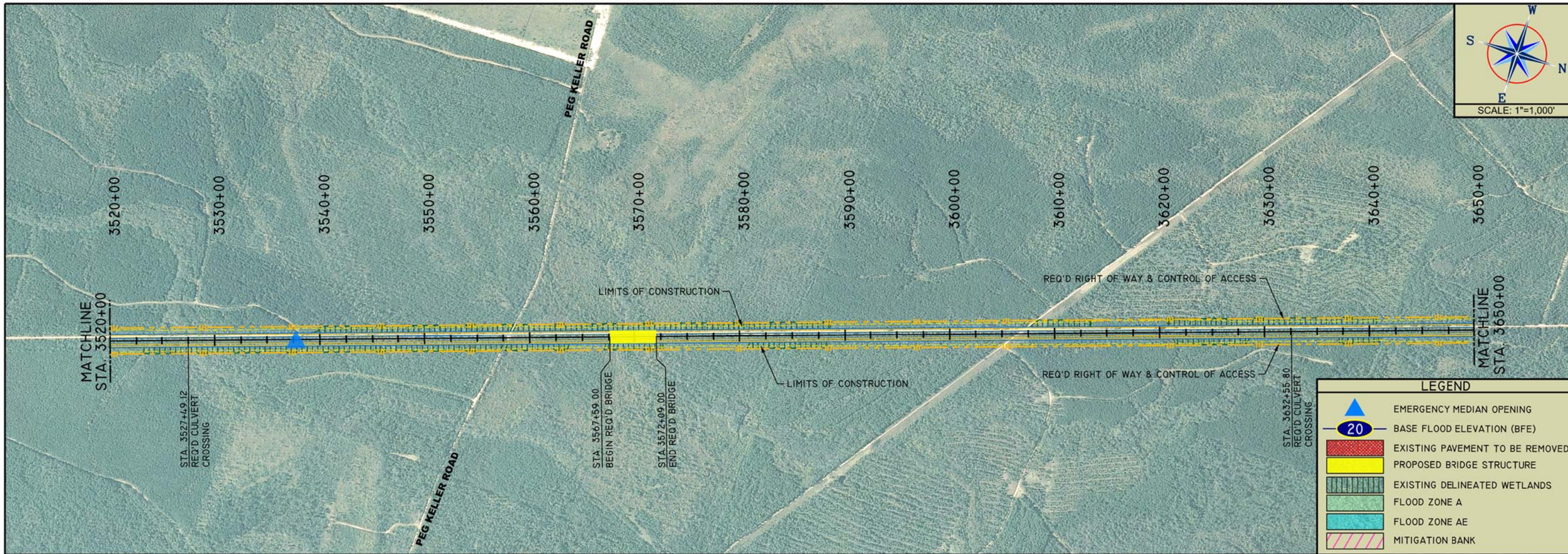
PLATE - 4

I-12 TO BUSH

ST. TAMMANY PARISH

ALTERNATIVE - Q



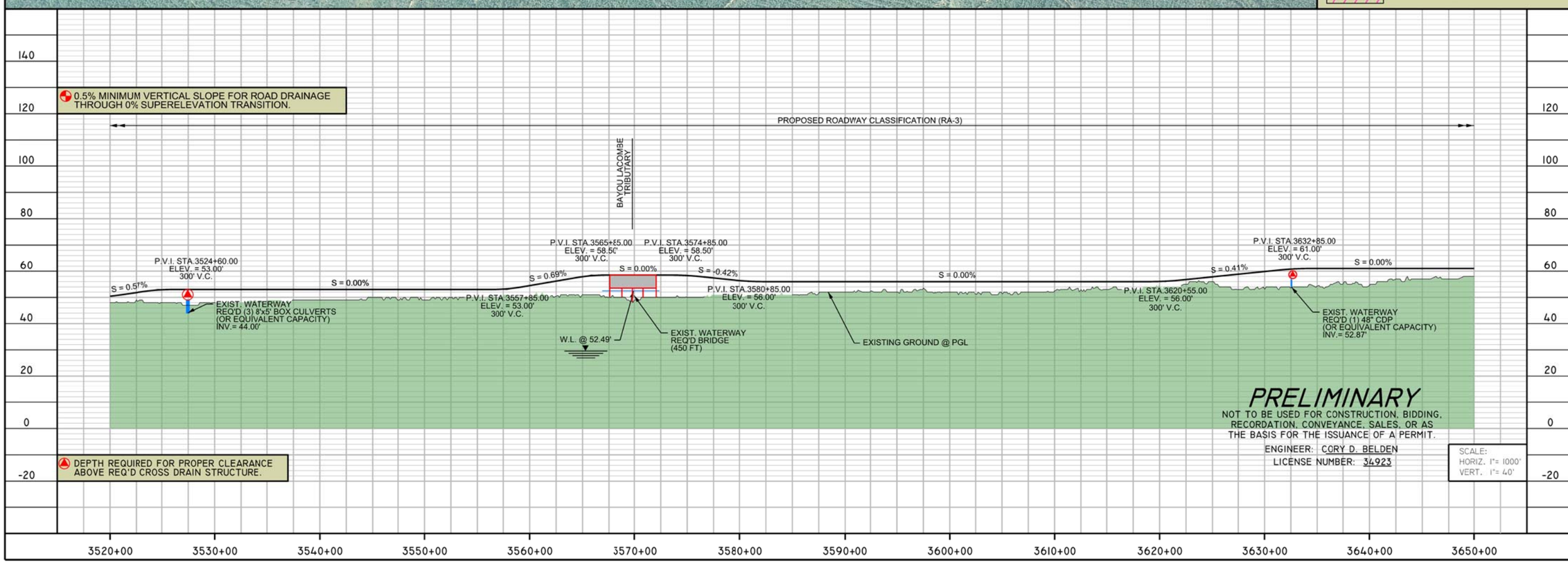
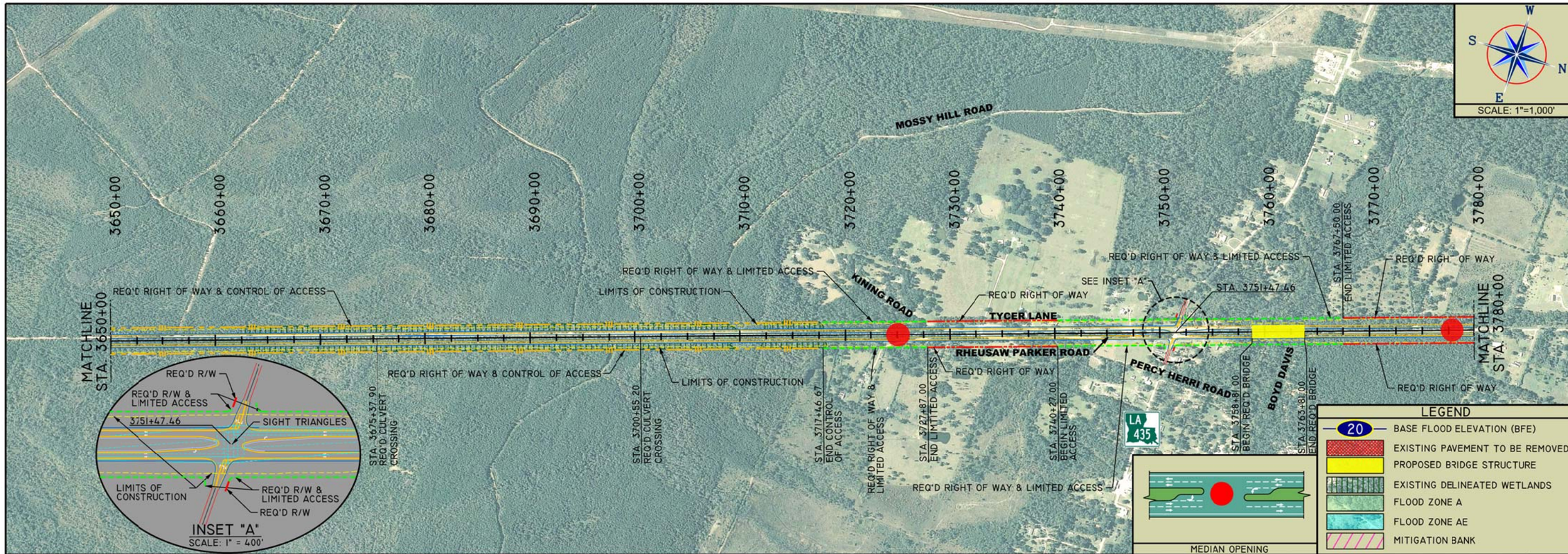


PLATE - 5

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE - Q



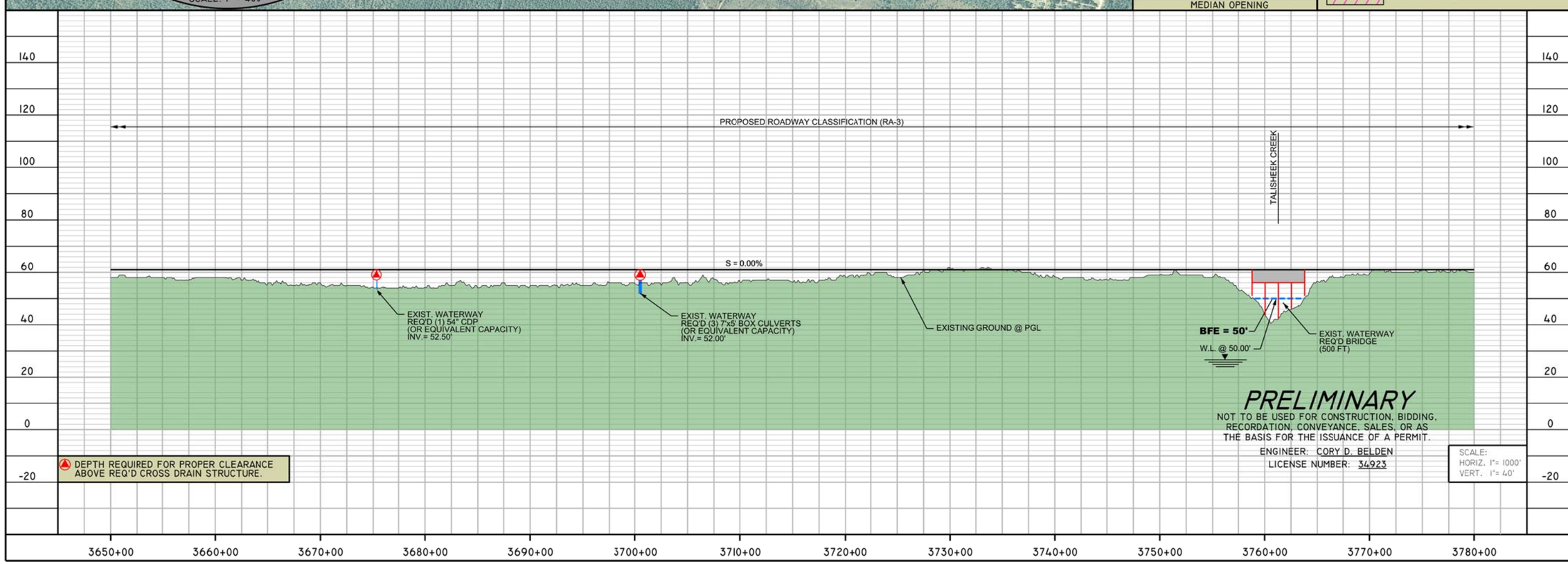
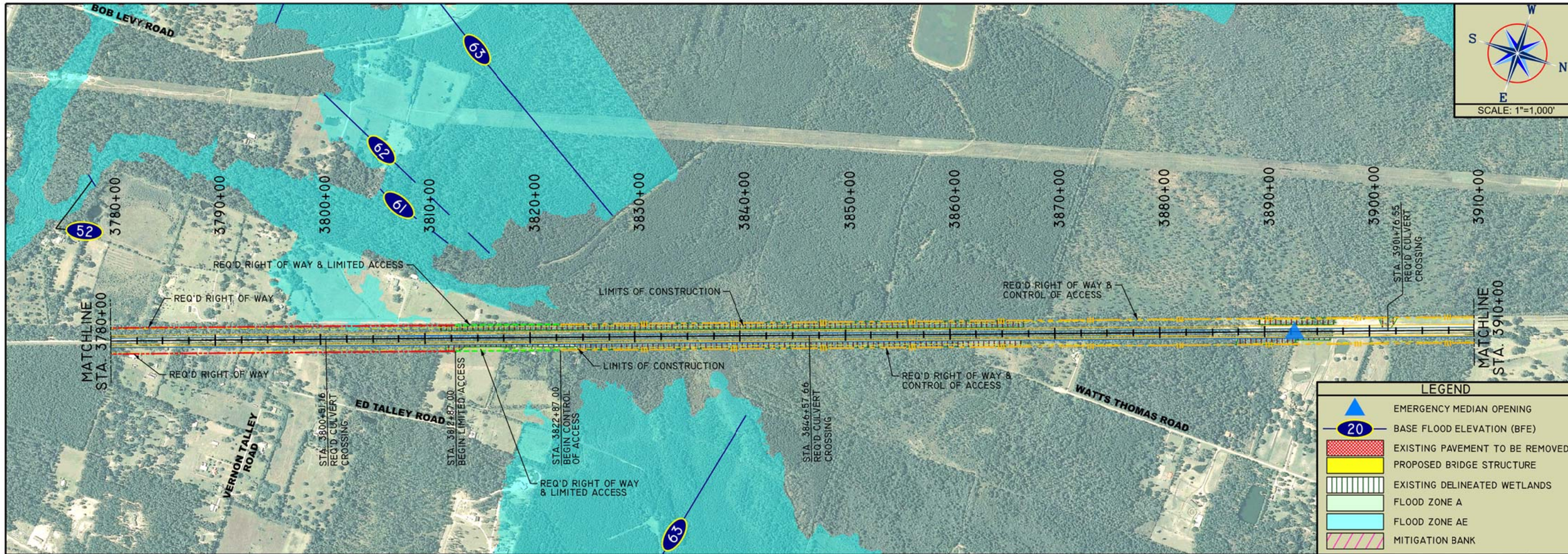


PLATE - 6

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE - Q



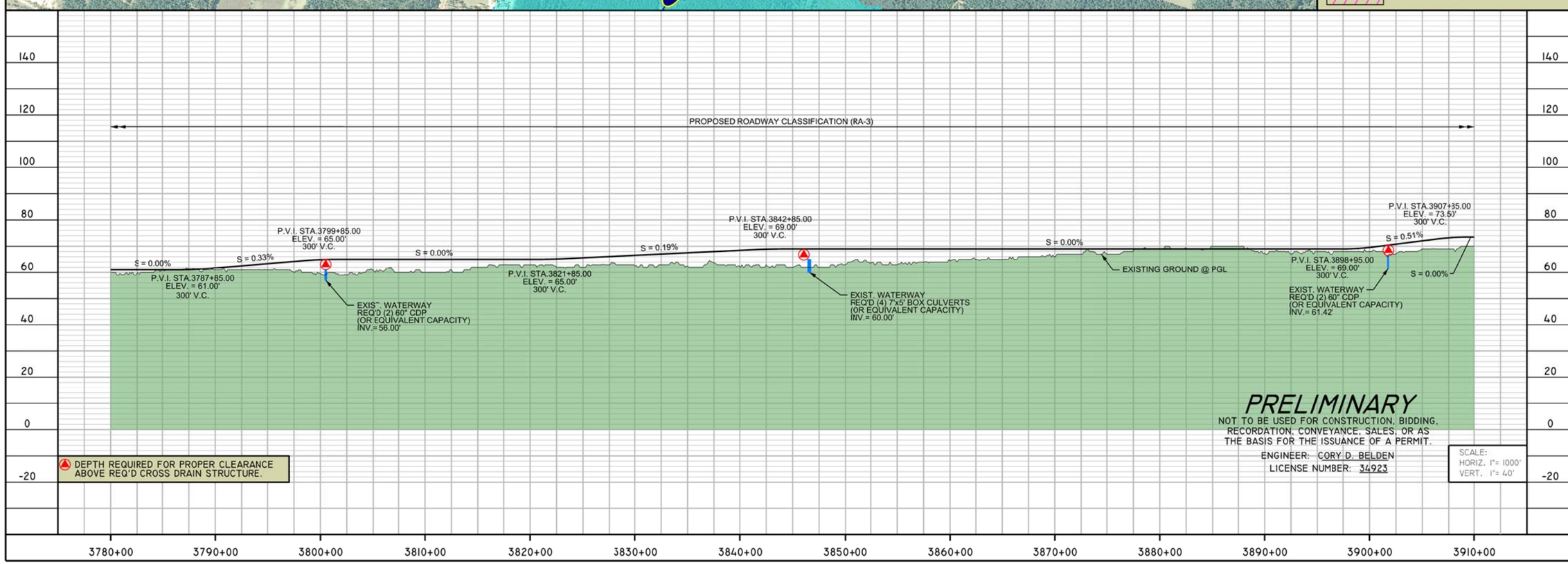
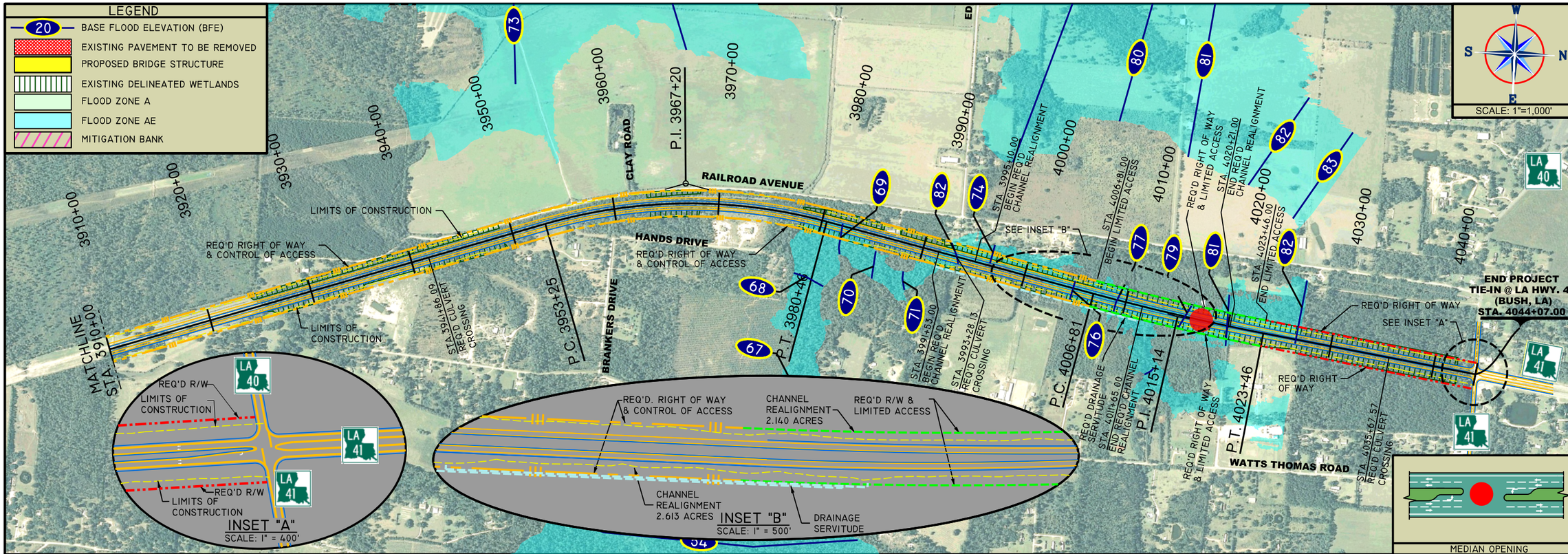


PLATE - 7

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE - Q



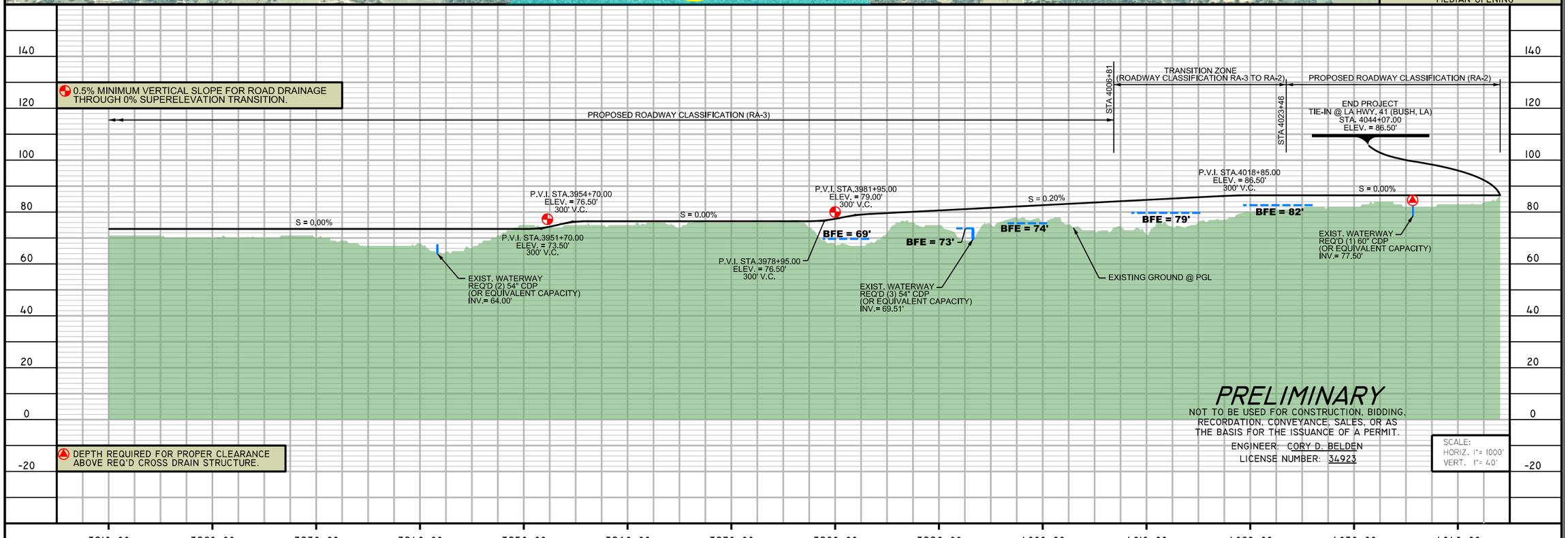


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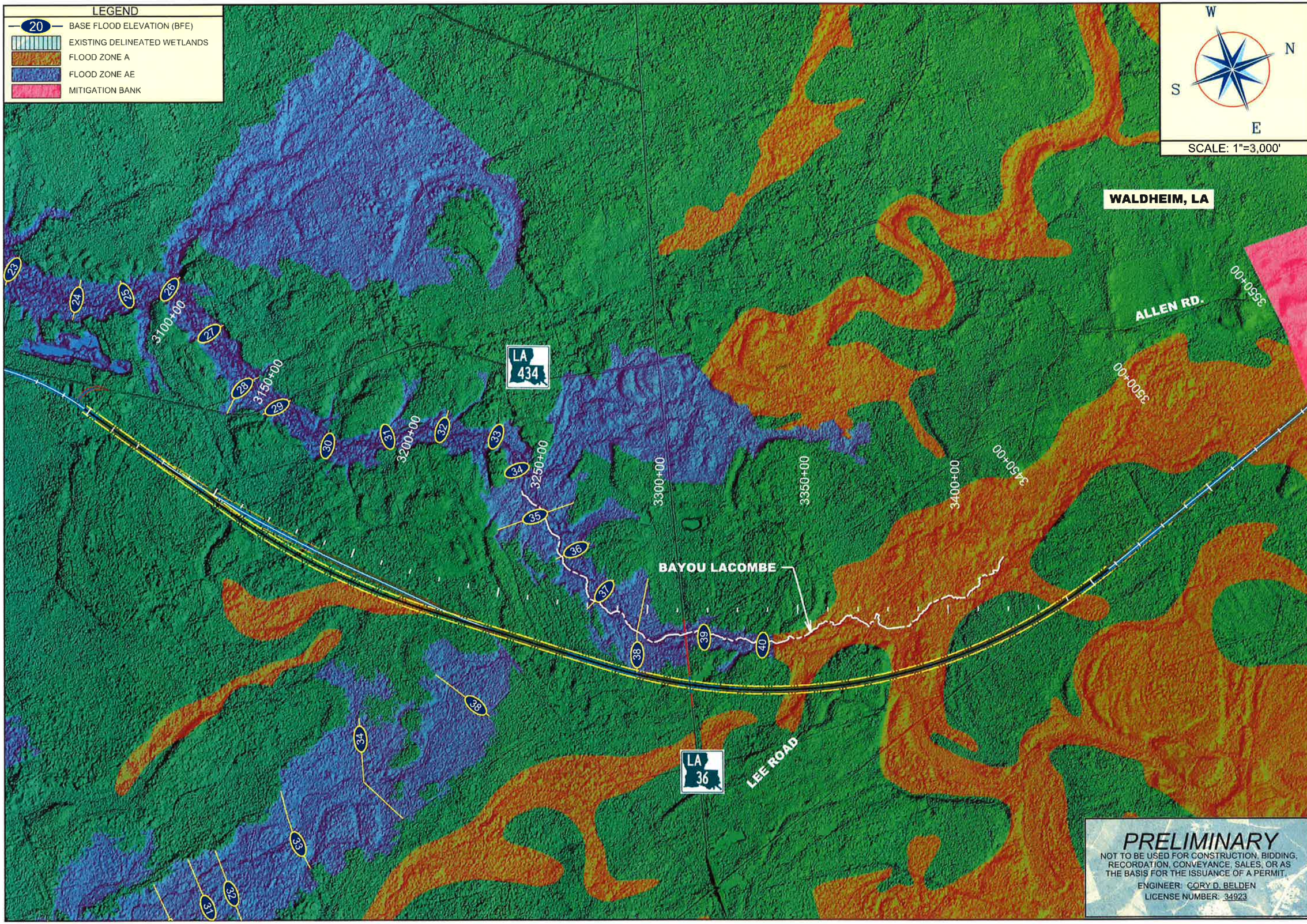
PLATE - 8

I-12 TO BUSH

ST. TAMMANY PARISH

ALTERNATIVE - Q



BAYOU LACOMBE BYPASS

I-12 TO BUSH
ST. TAMMANY PARISH

ALTERNATIVE Q