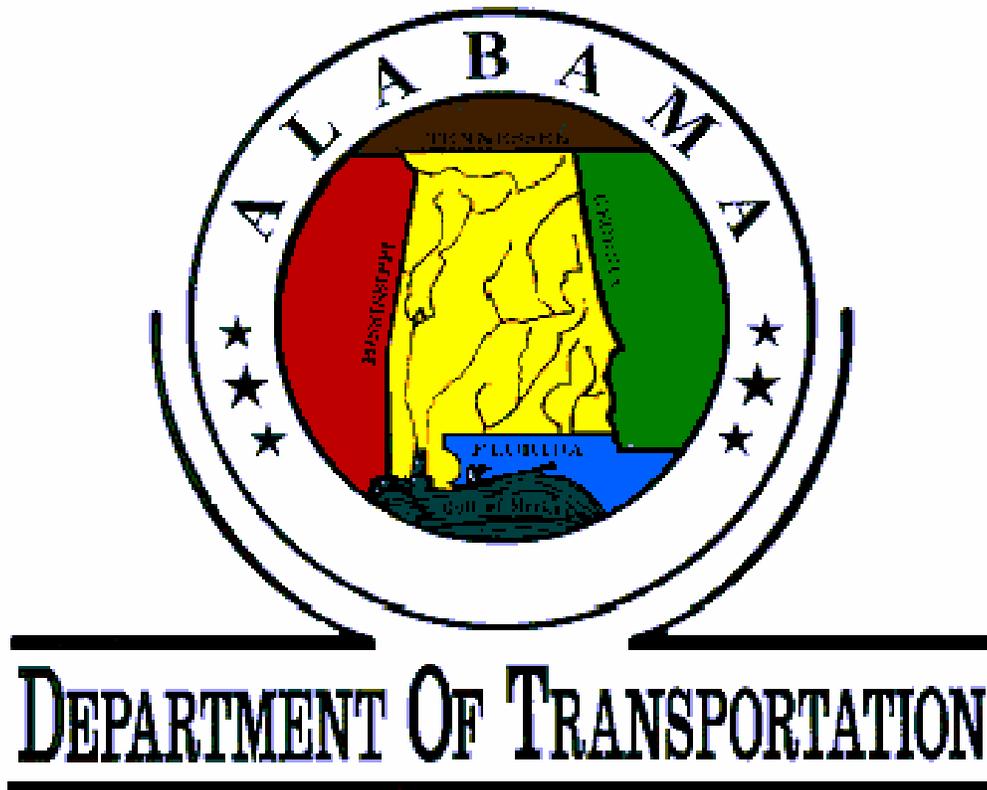# Alabama Department of Transportation
Maintenance Bureau
2024 Annual Bridge Inspection Refresher Course

<u>SNBI Classroom Examples</u>

Montgomery, AL   **Mobile, AL**   **Huntsville, AL**

Table of Contents

SNBI Examples

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Example #1

Two Span Bridge
City Structure
On Old Selma Road
Over Catoma Creek Relief

ALDOT

Example #1

Abut 1

Bent 2

Abut 3

ALDOT

Example #1

Example #1

Span
Material & Type

Example #1

B.SP.01 – Span
Configuration
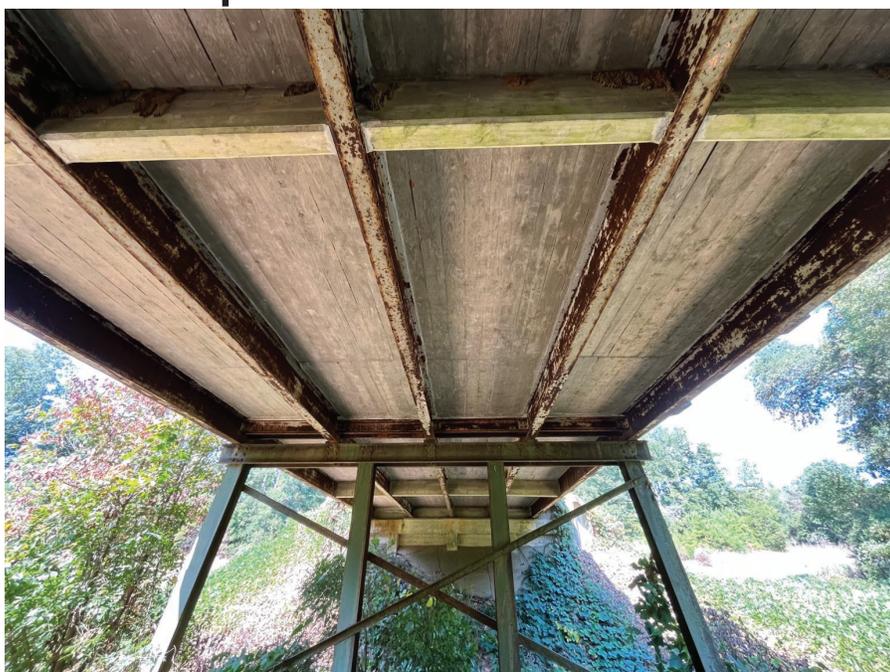
M01

ALDOT

Example #1

B.SP.02 – Number of Spans

2

ALDOT

Example #1

B.SP.03 – Number of Beam Lines

5

Example #1

B.SP.04 – Span Material

S01

Example #1

B.SP.05 – Span Continuity

1

ALDOT

Example #1

B.SP.06 – Span Type

G02

ALDOT

Example #1

B.SP.07 – Span Protective System

C01

Example #1

B.SP.08 – Deck Interaction

NC

Example #1

B.SP.09 – Deck Material & Type

C01

ALDOT

Example #1

B.SP.10 – Wearing Surface

B01

ALDOT

Example #1

B.SP.11 – Deck Protective System

0

ALDOT

Example #1

B.SP.12 – Deck Reinforcing Protective System

0

ALDOT

Example #1

B.SP.13 – Deck Stay-in-Place Forms

0

![ALDOT]

Example #1

Item	Data Item	Value (1)
B.SP.01	Span Configuration Designation	M01
B.SP.02	Number of Spans	2
B.SP.03	Number of Beam Lines	5
B.SP.04	Span Material	S01
B.SP.05	Span Continuity	1
B.SP.06	Span Type	G02
B.SP.07	Span Protective System	C01
B.SP.08	Deck Interaction	NC
B.SP.09	Deck Material & Type	C01
B.SP.10	Wearing Surface	B01
B.SP.11	Deck Protective System	0
B.SP.12	Deck Reinforcing Protective System	0
B.SP.13	Deck Stay-in-Place Forms	0

![ALDOT]

Example #1

Substructure Material & Type

Example #1

Abut 1

Abut 3

Example #1

Bent 2

ALDOT

Example #1

B.SB.01 – Substructure Configuration Designation

A01 & P01

ALDOT

Example #1

B.SB.02 – Number of Substructure Units

A01 = _____ 2

P01 = _____ 1

Example #1

B.SB.03 – Substructure Material

A01 = _____C01_____

Example #1

B.SB.03 – Substructure Material

P01 = _____

Example #1

B.SB.03 – Substructure Material

P01 = _____S04_____

Example #1

B.SB.04 – Substructure Type

A01 = _____A02_____

![ALDOT]

Example #1

B.SB.04 – Substructure Type

P01 = _____ B03 _____

![ALDOT]

Example #1

B.SB.05 – Substructure Protective System

A01 = _____ 0 _____

ALDOT

Example #1

B.SB.05 – Substructure Protective System

P01 = _____C01_____

ALDOT

Example #1

B.SB.06 – Foundation Type

A01 = _____P01_____

ALDOT

Example #1

B.SB.06 – Foundation Type

P01 = _____P01_____

ALDOT

Example #1

B.SB.07 – Foundation Protective System

A01 = _____E01_____

ALDOT

Example #1

B.SB.07 – Foundation Protective System

P01 = _____ C01 _____

ALDOT

Example #1

Item	Data Item	Value (1)	Value (2)
B.SB.01	Substructure Configuration	A01	P01
B.SB.02	# of Substructure Units	2	1
B.SB.03	Substructure Material	C01	S04
B.SB.04	Substructure Type	A02	B03
B.SB.05	Sub. Protective System	0	C01
B.SB.06	Foundation Type	P01	P01
B.SB.07	Foundation Protective System	E01	C01

Example #1

Roadside
Hardware

Example #1

B.RH.01 – Bridge Railings

2302

ALDOT

Example #1

B.RH.02 – Transitions

2302

ALDOT

Example #1

Item	Data Item	Value (1)
B.RH.01	Bridge Railings	2302
B.RH.02	Transitions	2302

ALDOT

Example #1

Feature
Identification

ALDOT

Example #1

B.F.01 – Feature Type

Feature 1 = _____H01_____

Feature 2 = _____F01_____

Example #1

B.F.02 – Feature Location

Feature 1 = _____C_____

Feature 2 = _____B_____

Example #1

B.F.03 – Feature Name

Feature 1 = _Old Selma Road_

Feature 2 = _Catoma Creek Relief_

Example #1

Item	Data Item	Value (1)	Value (2)
B.F.01	Feature Type	H01	F01
B.F.02	Feature Location	C	B
B.F.03	Feature Name	Old Selma Road	Catoma Creek Relief

Routes

Example #1

B.RT.01 – Route Designation

R01

Example #1

B.RT.02 – Route Number

0
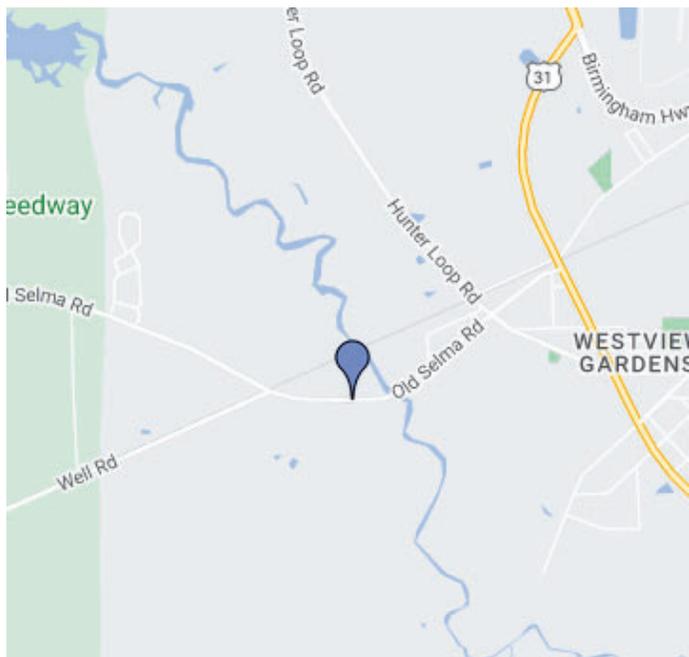
Example #1

B.RT.03 – Route Direction

EW

Example #1

B.RT.04 – Route Type

5

Example #1

B.RT.05 – Service Type

1

Example #1

Item	Data Item	Value (1)
B.RT.01	Route Designation	R01
B.RT.02	Route Number	0
B.RT.03	Route Direction	EW
B.RT.04	Route Type	5
B.RT.05	Service Type	1

Example #2

Sixteen Span Bridge
State Structure
Carries North Bound Traffic
US 231 | AL 9 | AL 53
Over Tallapoosa River
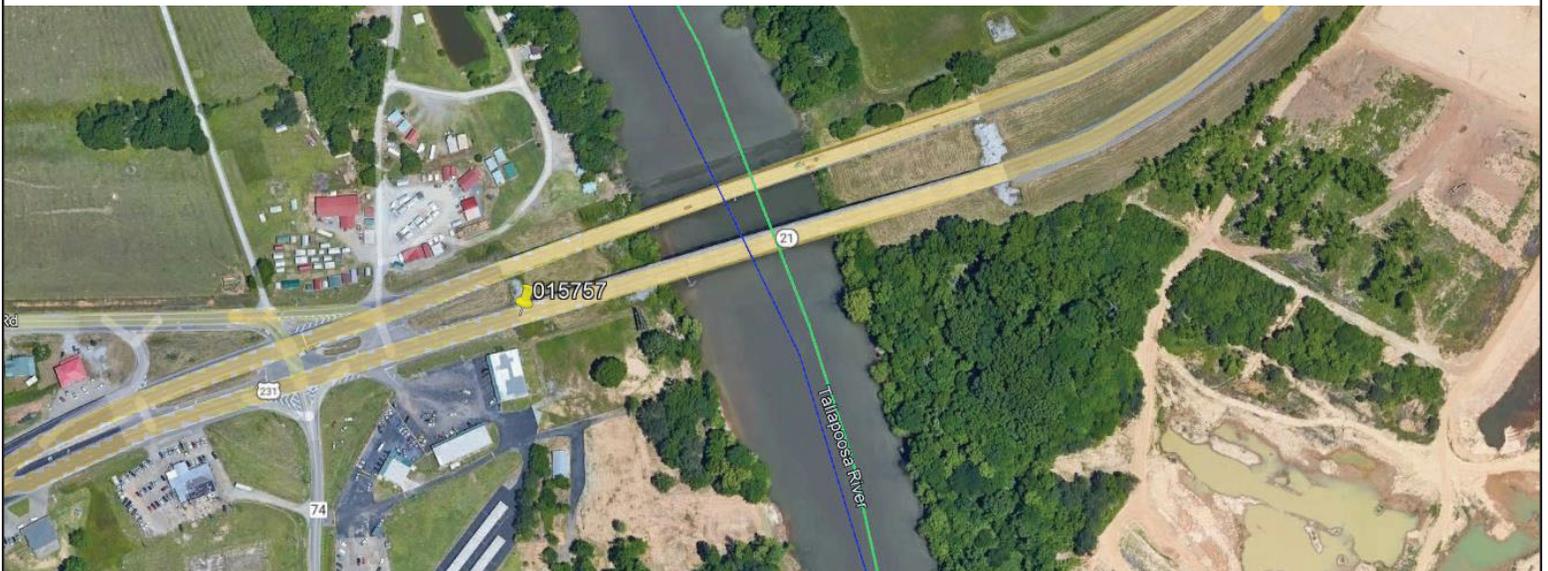
Example #2

Aerial view – North ↑

Example #2
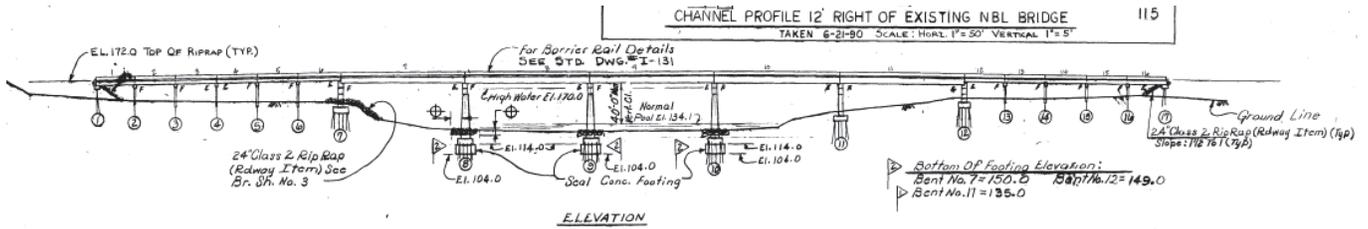
General Layout - Elevation View

Example #2
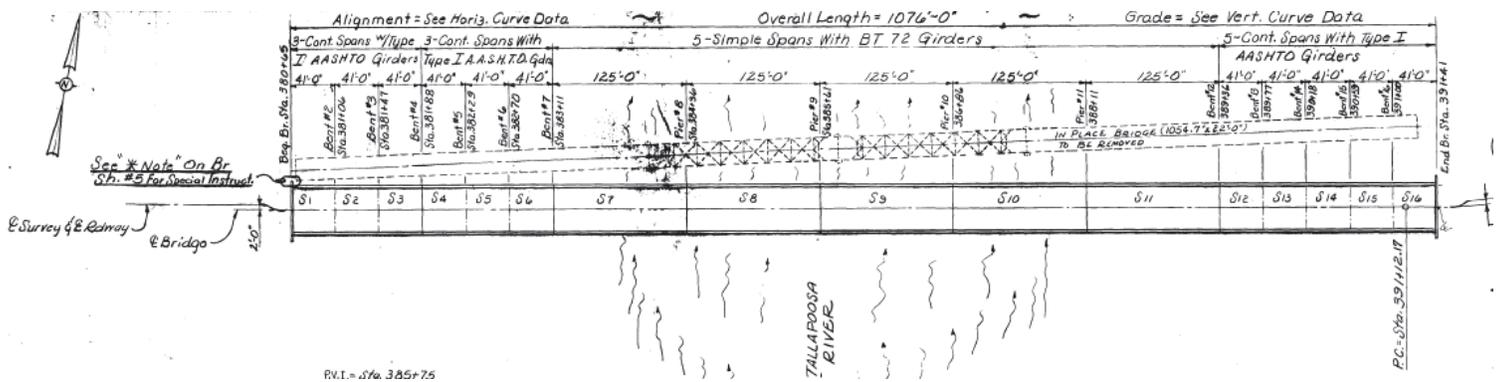
General Layout - Plan View

Example #2

Looking South Toward Abut 1

Looking South From Abut 17

Example #2

Looking North Toward Main Span

Looking South Toward Main Span

Example #2

SNBI Section 2.1
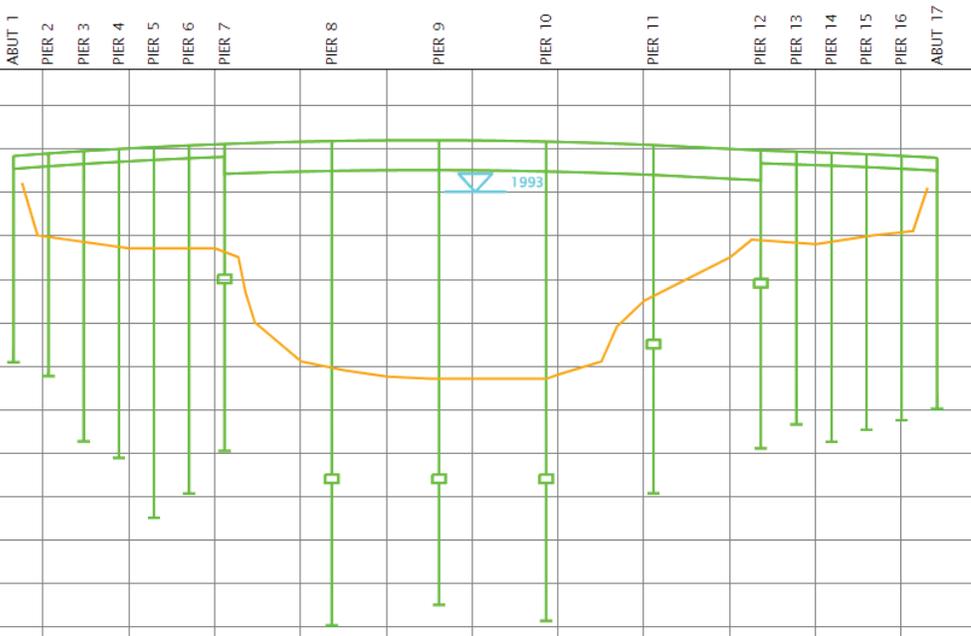Span Material & Type

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Example #2

B.SP.01 – Span
Configuration

Example #2

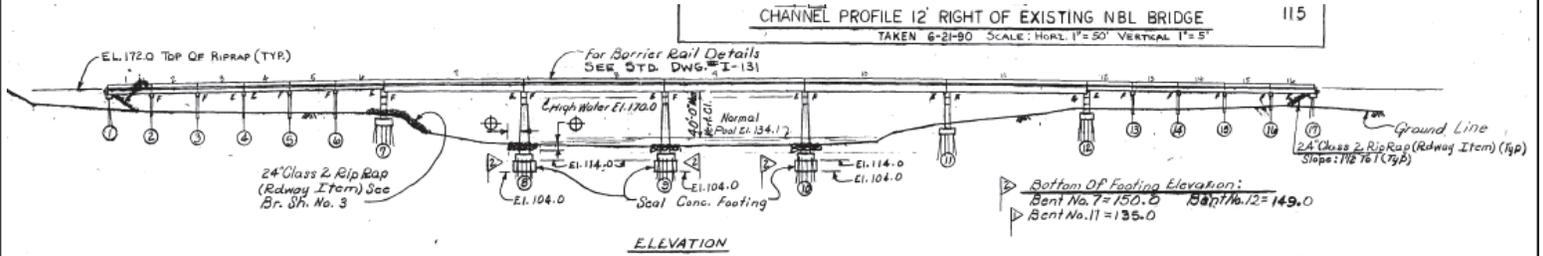B.SP.01 – Span Configuration

A01 & M01

Example #2

B.SP.02 – Number of Spans

A01 = _____

M01 = _____

Example #2

B.SP.02 – Number of Spans

A01 = _____11_____

M01 = _____5_____

Example #2

B.SP.03 – Number of Beam Lines

A01 = _____6_____

Example #2

B.SP.03 – Number of Beam Lines

M01 = _____6_____

Example #2
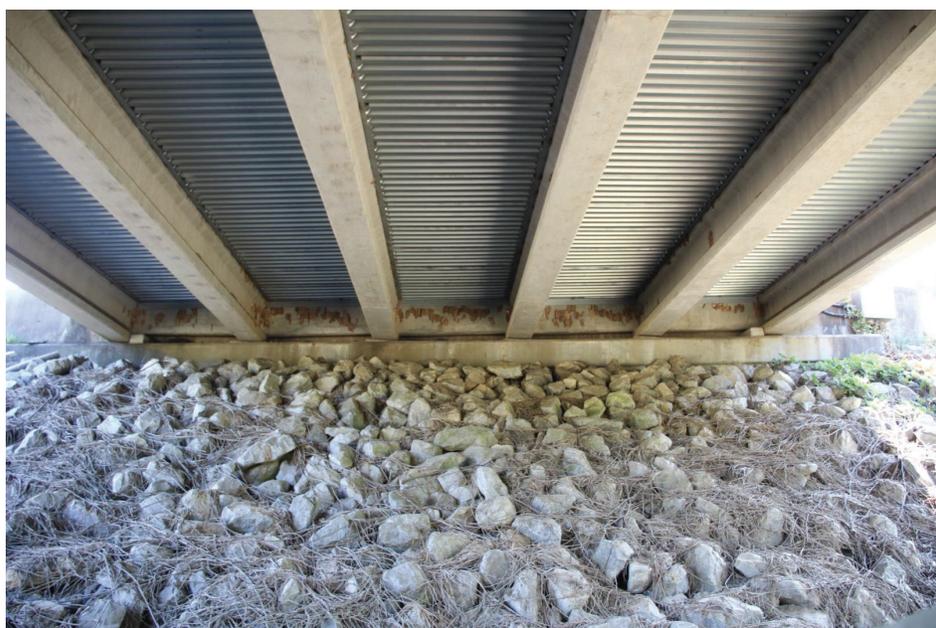
B.SP.04 – Span Material

A01 = _____C03_____

ALDOT

Example #2

B.SP.04 – Span Material

M01 = _____C03_____

ALDOT

Example #2

B.SP.05 – Span Continuity

A01 = _____3_____

ALDOT
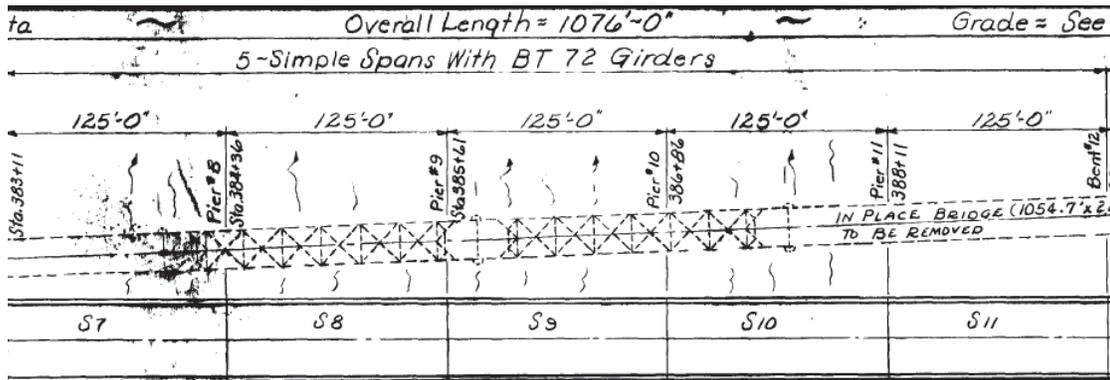
Example #2

B.SP.05 – Span Continuity

M01 = _____1_____

ALDOT

Example #2

B.SP.06 – Span Type

A01 = _____G02_____

ALDOT

Example #2

B.SP.06 – Span Type

M01 = _____G02_____

ALDOT

Example #2

B.SP.07 – Span
Protective System

A01 = _____0_____

ALDOT
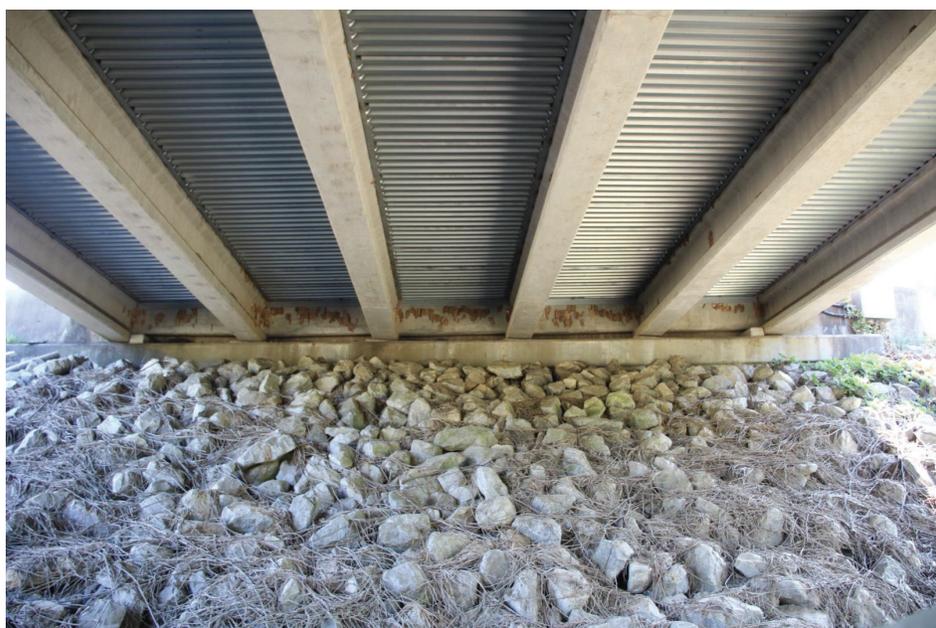
Example #2

B.SP.07 – Span
Protective System

M01 = _____0_____

ALDOT
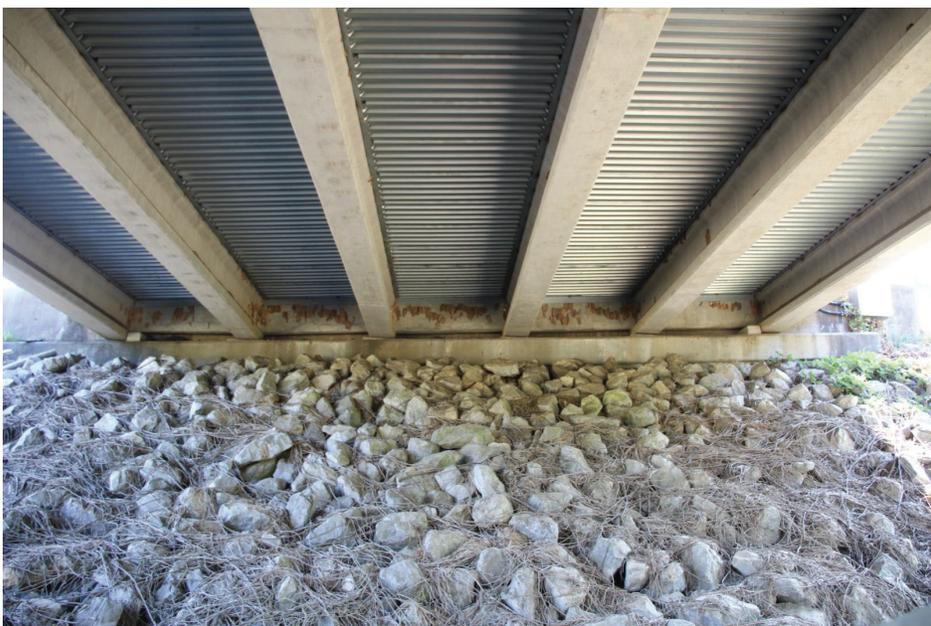
Example #2

B.SP.08 – Deck Interaction

A01 = _____CU_____

ALDOT

Example #2

B.SP.08 – Deck Interaction

M01 = _____CU_____

ALDOT

Example #2

B.SP.09 – Deck Material and Type

A01 = _____C01_____

M01 = _____C01_____

ALDOT

Example #2

B.SP.10 – Wearing Surface

A01 = _____0_____

M01 = _____0_____

ALDOT

Example #2

B.SP.11 – Deck Protective System

A01 = _____0_____

M01 = _____0_____

ALDOT

Example #2

B.SP.12 – Deck Reinforcing Protective System

A01 = _____ 0 _____

M01 = _____ 0 _____

ALDOT

Example #2

B.SP.13 – Deck Stay-in-Place Forms

A01 = _____ M01 _____

Example #2

B.SP.13 – Deck Stay-in-Place Forms

M01 = _____M01_____

Example #2

Item	Data Item	Value (1)	Value (2)
B.SP.01	Span Configuration Designation	A01	M01
B.SP.02	Number of Spans	11	5
B.SP.03	Number of Beam Lines	6	6
B.SP.04	Span Material	C03	C03
B.SP.05	Span Continuity	3	1
B.SP.06	Span Type	G02	G02
B.SP.07	Span Protective System	0	0
B.SP.08	Deck Interaction	CU	CU
B.SP.09	Deck Material & Type	C01	C01
B.SP.10	Wearing Surface	0	0
B.SP.11	Deck Protective System	0	0
B.SP.12	Deck Reinforcing Protective System	0	0
B.SP.13	Deck Stay-in-Place Forms	M01	M01

Example #2

Substructure
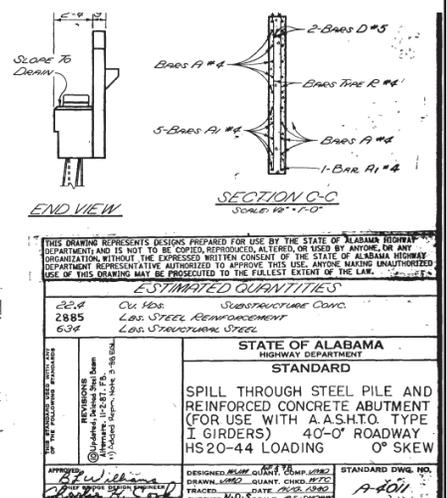Material & Type

---
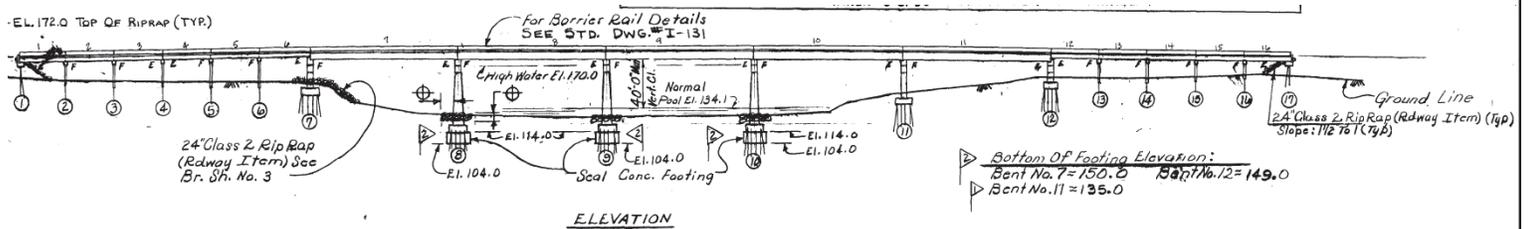
Example #2

Example #2

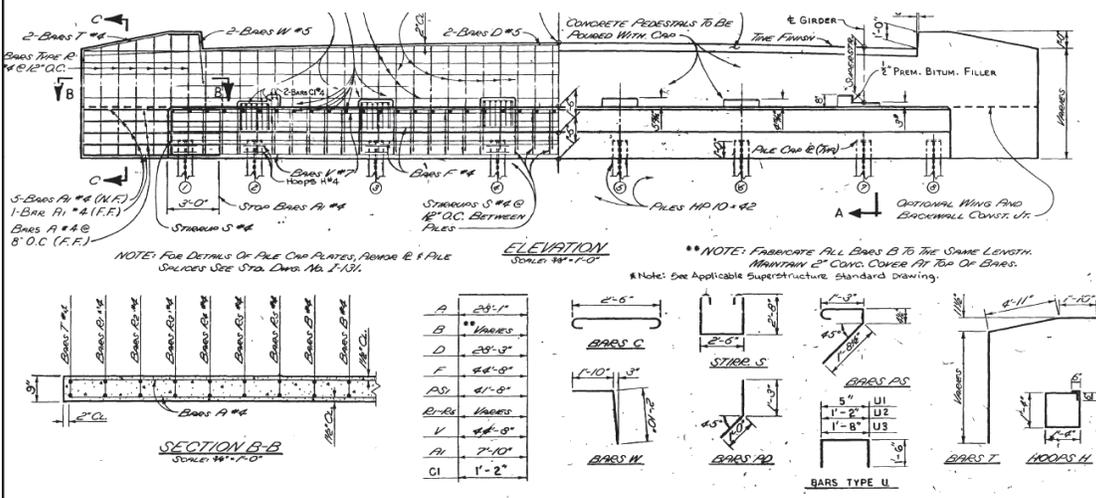Abut 1

Abut 17

Example #2

Example #2

Bents 2 – 6

Bents 13 – 16

Example #2
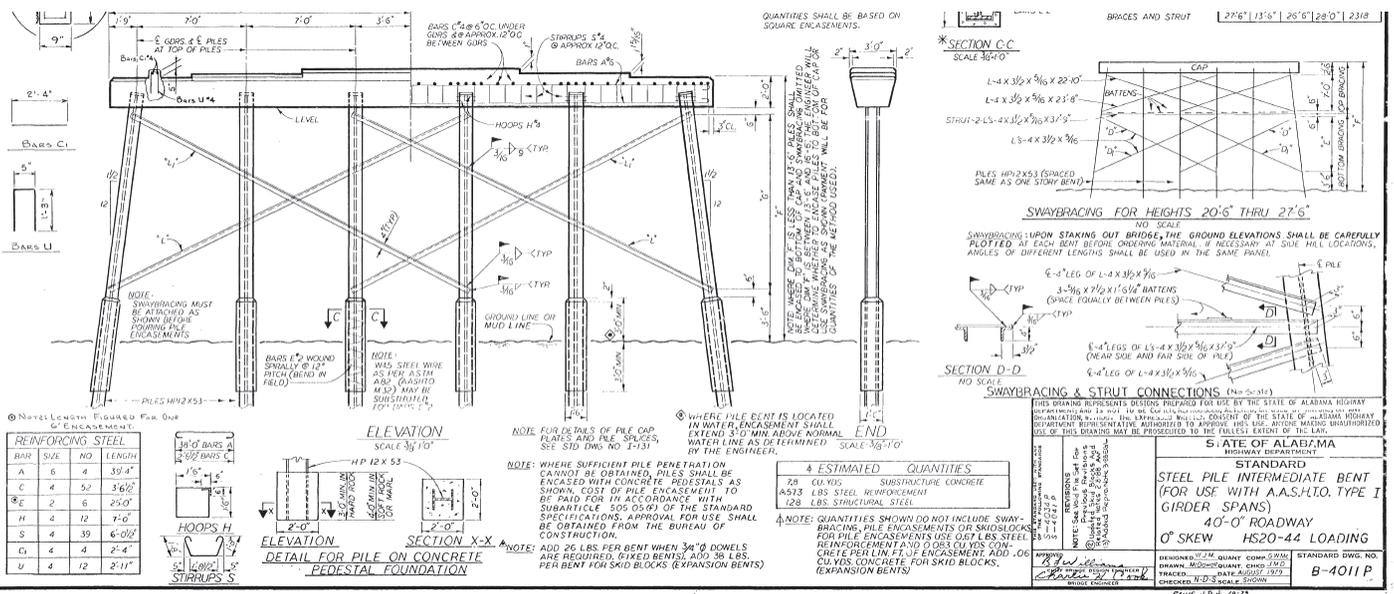
Example #2

Bents 7 – 12

Example #2
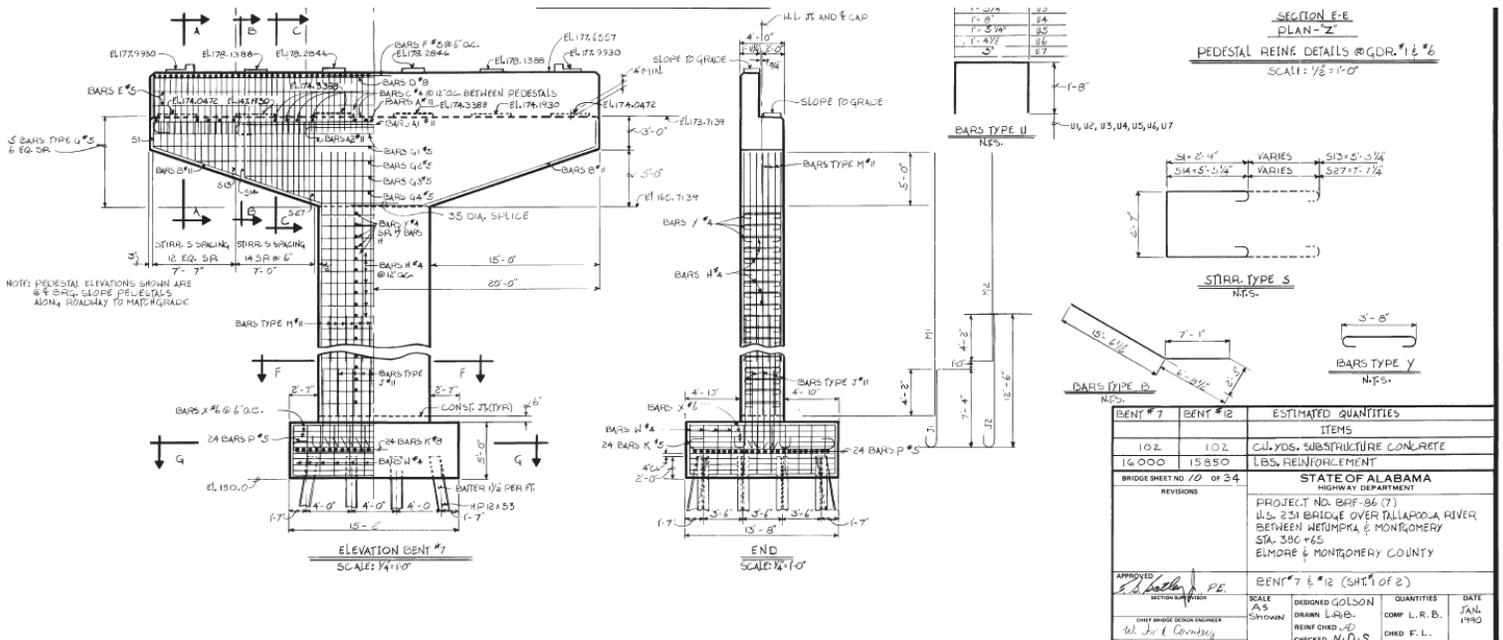
Example #2
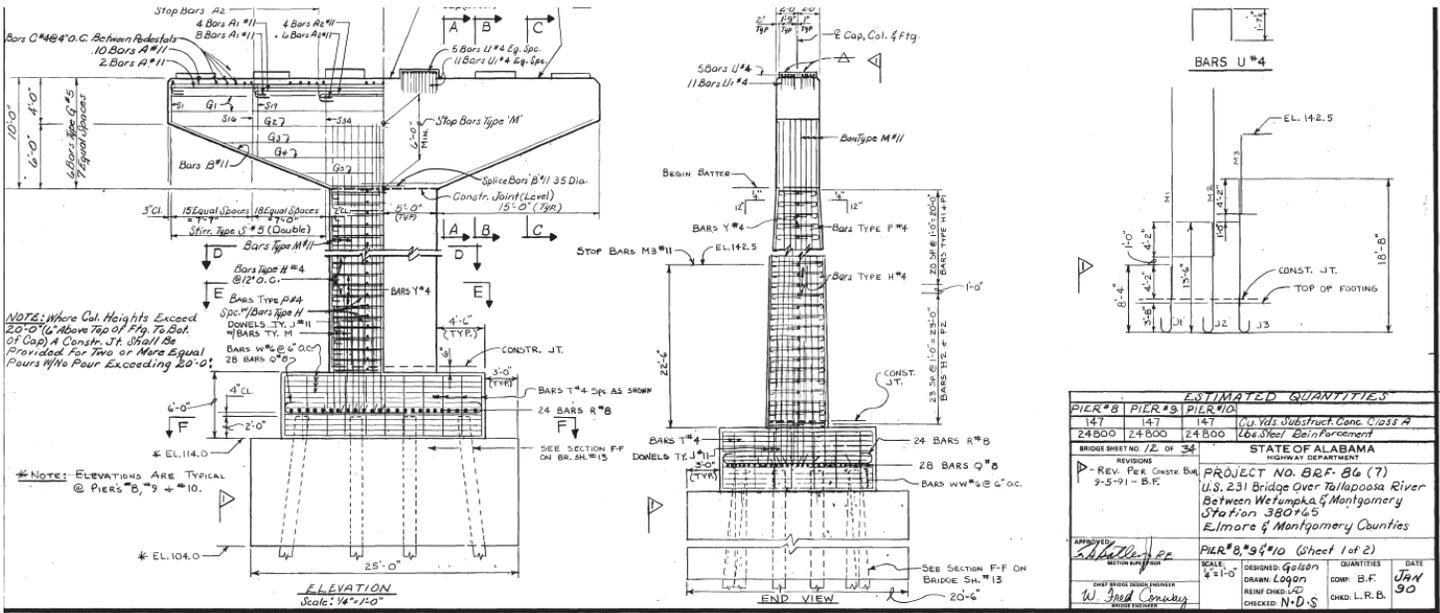
Example #2

B.SB.01 – Substructure Configuration Designation

A01, P01, & P02

Example #2

B.SB.02 – Number of Substructure Units

A01 = _____2_____

Example #2

B.SB.02 – Number of Substructure Units

P01 = _____9_____

Example #2

B.SB.02 – Number of Substructure Units

P02 = _____ 6 _____

Example #2
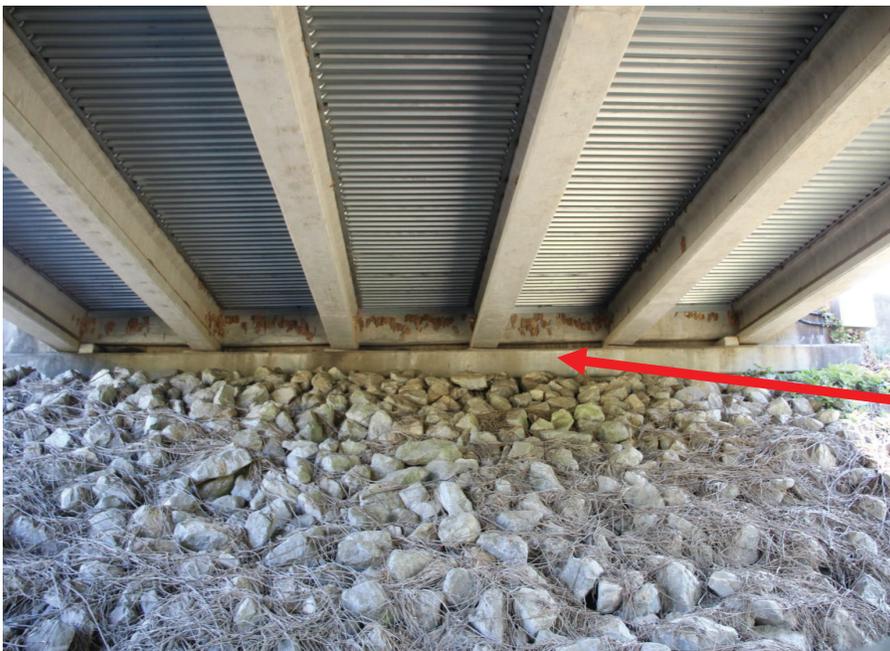
B.SB.03 – Substructure Material

A01 = _____ C01 _____

Example #2

B.SB.03 – Substructure Material

P01 = _____ C01 _____

Example #2

B.SB.03 – Substructure Material

P02 = _____ C01 _____

ALDOT

Example #2

B.SB.04 – Substructure Type

A01 = _____A02_____

ALDOT

Example #2

B.SB.04 – Substructure Type

P01 = _____B03_____

Example #2

B.SB.04 – Substructure Type

P02 = _____P02_____

Example #2

B.SB.05 – Substructure Protective System

A01 = _____0_____

ALDOT

Example #2

B.SB.05 – Substructure Protective System

P01 = _____0_____

P02 = _____0_____

ALDOT

Example #2

B.SB.06 – Foundation Type

A01 = _____P01_____

Example #2

B.SB.06 – Foundation Type

P01 = _____P01_____

Example #2

B.SB.06 – Foundation Type

P02 = _____P01_____

Example #2

B.SB.07 – Foundation Protective System

A01 = _____0_____

Example #2

B.SB.07 – Foundation Protective System

P01 = _____C01_____

P02 = _____0_____

Example #2
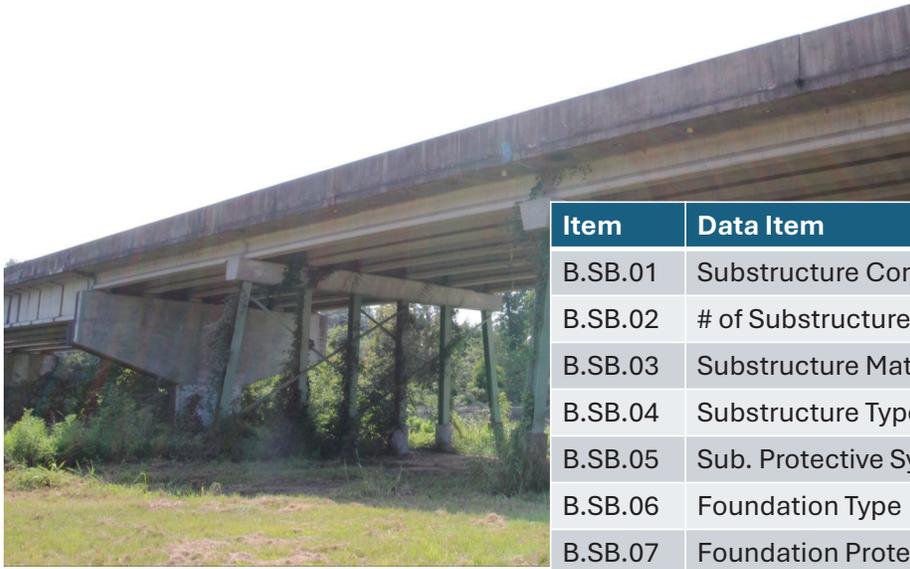
Item	Data Item	Value (1)	Value (2)	Value (3)
B.SB.01	Substructure Configuration	A01	P01	P02
B.SB.02	# of Substructure Units	2	9	6
B.SB.03	Substructure Material	C01	C01	C01
B.SB.04	Substructure Type	A02	B03	P02
B.SB.05	Sub. Protective System	0	0	0
B.SB.06	Foundation Type	P01	P01	P01
B.SB.07	Foundation Protective System	0	C01	0

Example #2

Roadside
Hardware

Example #2

B.RH.01 – Bridge Railings

M164

Example #2

B.RH.01 – Transitions

3503

Example #2

Item	Data Item	Value (1)
B.RH.01	Bridge Railings	M164
B.RH.02	Transitions	3503

Example #2

Feature
Identification

ALDOT

Example #2

B.F.01 – Feature Type

Feature 1 = ___H01___

Feature 2 = ___W01___

ALDOT

Example #2

B.F.02 – Feature Location

Feature 1 = ___C___

Feature 2 = ___B___

ALDOT

Example #2

B.F.03 – Feature Name

Feature 1 = US231 | AL 9 | AL 53

Feature 2 = Tallapoosa River
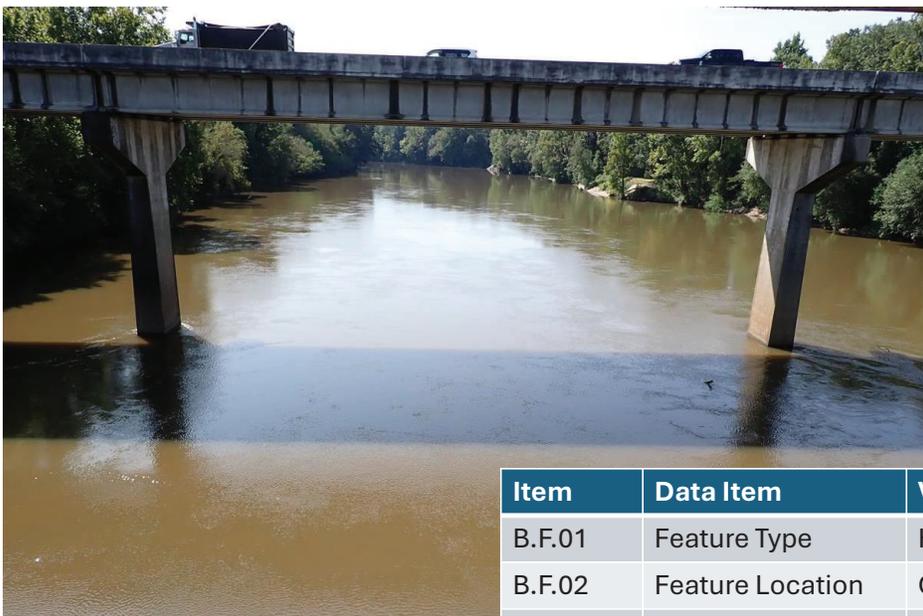
ALDOT

Example #2

Item	Data Item	Value (1)	Value (2)
B.F.01	Feature Type	H01	W01
B.F.02	Feature Location	C	B
B.F.03	Feature Name	US 231	AL 9	AL 53	Tallapoosa River

Example #2

Routes

Example #2

B.RT.01 – Route Designation

Route 1 = __R01__

Route 2 = __R02__

Route 3 = __R03__

ALDOT

Example #2

B.RT.02 – Route Number

Route 1 = _____231_____

Route 2 = _____9_____

Route 3 = _____53_____

ALDOT
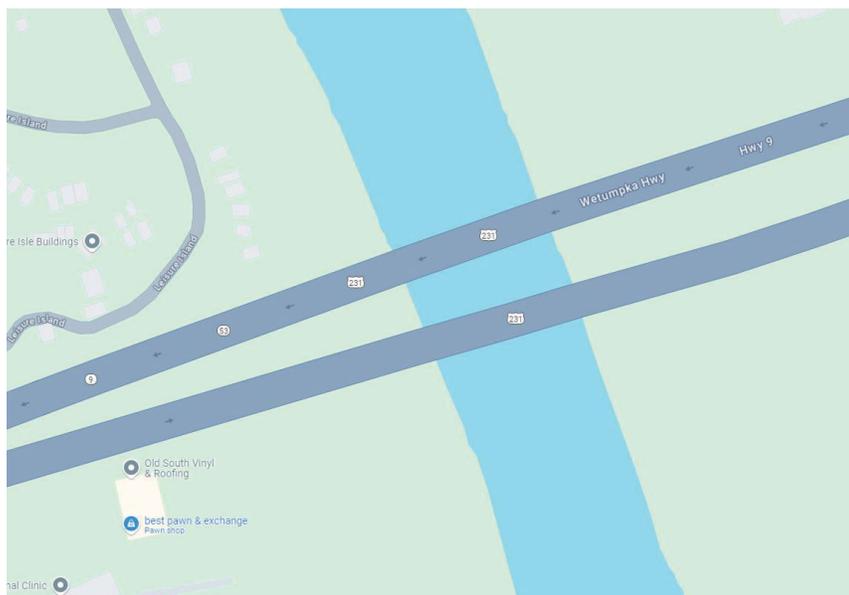
Example #2

B.RT.03 – Route Direction

Route 1 = _____NB_____

Route 2 = _____NB_____

Route 3 = _____NB_____

ALDOT

Example #2

B.RT.04 – Route Type

Route 1 (231) = _____2_____

Route 2 (9) = _____3_____

Route 3 (53) = _____3_____

ALDOT

Example #2

B.RT.05 – Service Type

Route 1 = _____1_____

Route 2 = _____1_____

Route 3 = _____1_____

Example #2

Item	Data Item	Value (1)	Value (2)	Value (3)
B.RT.01	Route Designation	R01	R02	R03
B.RT.02	Route Number	231	9	53
B.RT.03	Route Direction	NB	NB	NB
B.RT.04	Route Type	2	3	3
B.RT.05	Service Type	1	1	1

Example #3

Triple Barrel Culvert
State Structure
On AL 170
Over Sand Creek

Example #3

Triple Barrel Culvert
State Structure
On AL 170
Over Sand Creek

ALDOT

Example #3

Span
Material & Type

ALDOT

Example #3

B.SP.01 – Span
Configuration

C01

ALDOT

Example #3

B.SP.02 – Number of Spans

3

ALDOT

Example #3

B.SP.03 – Number of Beam Lines

1

ALDOT

Example #3

B.SP.04 – Span Material

C01

ALDOT

Example #3

B.SP.05 – Span Continuity

7

ALDOT

Example #3

B.SP.06 – Span Type

F02

ALDOT

Example #3

B.SP.07 – Span
Protective System

0

ALDOT

Example #3

B.SP.08 – Deck Interaction

(Leave Blank)

ALDOT

Example #3

B.SP.09 – Deck Material
and Type

0

Example #3

B.SP.10 – Wearing Surface

(Leave Blank)

Example #3

B.SP.11 – Deck Protective System

(Leave Blank)

![ALDOT]

Example #3

B.SP.12 – Deck Reinforcing Protective System

(Leave Blank)

![ALDOT]

Example #3

B.SP.13 – Deck Stay-in-Place Forms

(Leave Blank)

Example #3

Item	Data Item	Value (1)
B.SP.01	Span Configuration Designation	C01
B.SP.02	Number of Spans	3
B.SP.03	Number of Beam Lines	1
B.SP.04	Span Material	C01
B.SP.05	Span Continuity	7
B.SP.06	Span Type	F02
B.SP.07	Span Protective System	0
B.SP.08	Deck Interaction	
B.SP.09	Deck Material & Type	0
B.SP.10	Wearing Surface	
B.SP.11	Deck Protective System	
B.SP.12	Deck Reinforcing Protective System	
B.SP.13	Deck Stay-in-Place Forms	

Example #3

Substructure Material & Type

Example #3

B.SB.01 – Substructure Configuration Designation

A01 & P01

Example #3

B.SB.02 – Number of Substructure Units

A01 = 2

P01 = 2

Example #3

B.SB.03 – Substructure Material

A01 = _____ C01 _____

P01 = _____ C01 _____

Example #3

B.SB.04 – Substructure Type

A01 = _____ A04 _____

P01 = _____ P01 _____

ALDOT

Example #3

B.SB.05 – Substructure Protective System

A01 = _____0_____

P01 = _____0_____

ALDOT

Example #3

B.SB.06 – Foundation Type

A01 = _____F01_____

P01 = _____F01_____

Example #3

B.SB.07 – Foundation
Protective System

A01 = _____0_____

P01 = _____0_____

Example #3

Item	Data Item	Value (1)	Value (2)
B.SB.01	Substructure Configuration	A01	P01
B.SB.02	# of Substructure Units	2	2
B.SB.03	Substructure Material	C01	C01
B.SB.04	Substructure Type	A04	P01
B.SB.05	Sub. Protective System	0	0
B.SB.06	Foundation Type	F01	F01
B.SB.07	Foundation Protective System	0	0

Example #3

Roadside
Hardware

Example #3

B.RH.01 – Bridge Railings

N
_____

ALDOT

Example #3

B.RH.02 – Transitions

N

ALDOT

Example #3

Item	Data Item	Value (1)
B.RH.01	Bridge Railings	N
B.RH.02	Transitions	N

Example #3

Feature
Identification

Example #3

B.F.01 – Feature Type

Feature 1 = ___H01___

Feature 2 = ___W01___

ALDOT

Example #3

B.F.02 – Feature Location

Feature 1 = _____C_____

Feature 2 = _____B_____

ALDOT

Example #3

B.F.03 – Feature Name

Feature 1 = _____AL 170_____

Feature 2 = _____Sand Creek_____

Example #3

Item	Data Item	Value (1)	Value (2)
B.F.01	Feature Type	H01	W01
B.F.02	Feature Location	C	B
B.F.03	Feature Name	AL 170	Sand Creek

Example #3
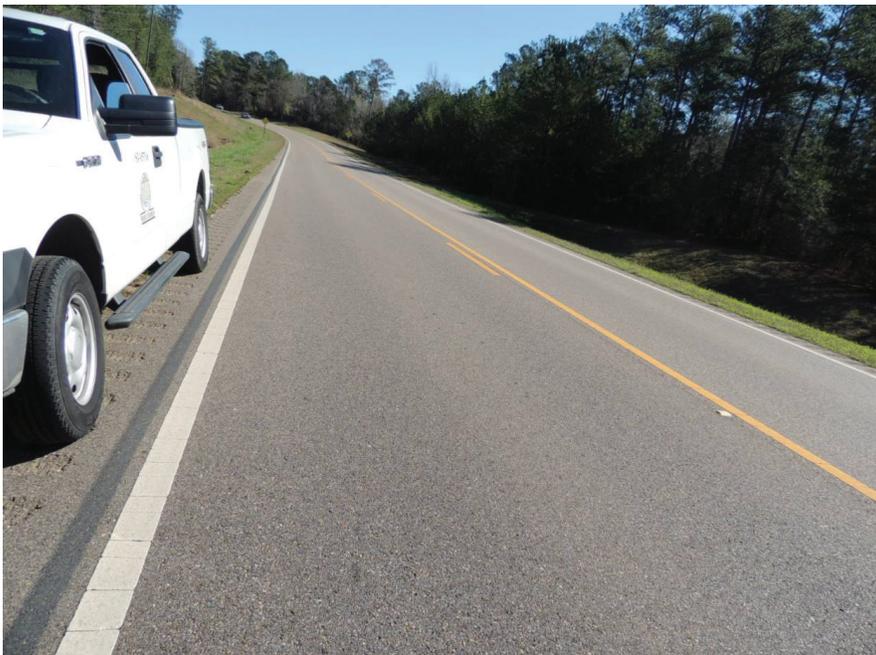

Routes

Example #3

B.RT.01 – Route Designation
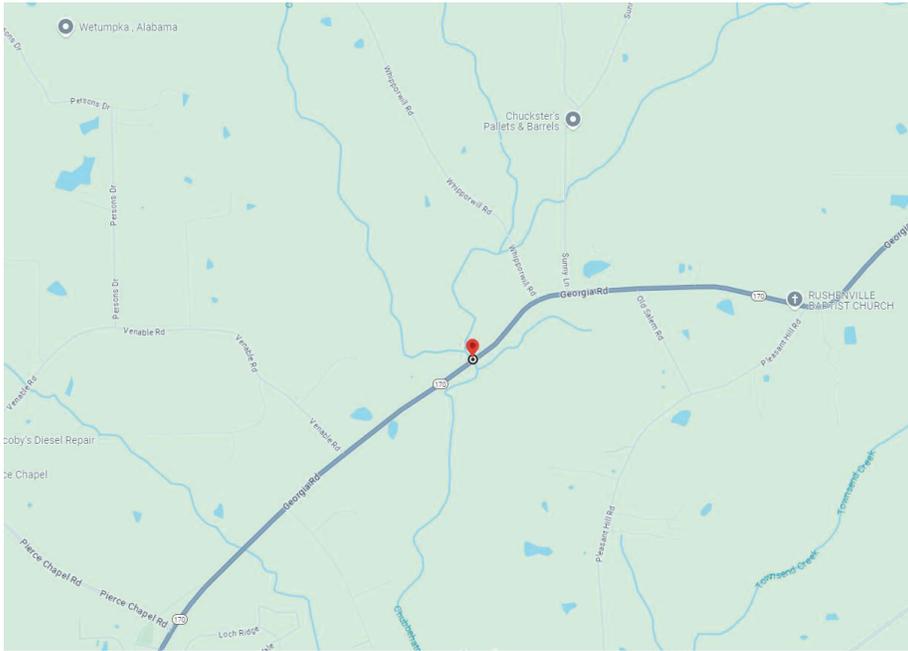
R01

Example #3

B.RT.02 – Route Number

170

Example #3

B.RT.03 – Route Direction

EW

Example #3

B.RT.04 – Route Type

3

Example #3

B.RT.05 – Service Type

1
_____

Example #3

Item	Data Item	Value (1)
B.RT.01	Route Designation	R01
B.RT.02	Route Number	170
B.RT.03	Route Direction	EW
B.RT.04	Route Type	3
B.RT.05	Service Type	1