SUPERSTRUCTURE

FLOOR CROWN: SUPERELEVATION: VERT CLEAR: OPEN

SIDEWALKS: EXP JT MATL.: DRAINS:

SPAN NO	FLOOR DEPTH AND MATL	WEAR SURF DEPTH AND MATL	CURBS HEIGHT AND MATL	RAILING					CLEARANCE	
				TYPE	NO	MATL	HT	POSTS	BETW CURBS	BETW RAILS

STRINGERS - BEAMS OR GIRDERS

SPAN NO	MATL	SPAN C C BEARS	NO OF BEAMS	SPACING	SECTION		TYPE EXP	STD DWG	DESIGN RATING
					OUTS STRING	INS STRING			

TRUSSES

WHEN MADE: YIELD POINT: FABRICATED BY:

DESIGN RATING: FLOOR: TRUSSES:

SPAN NO	MATL • KIND TYPE CONNS	SPAN C C BEARS	NO AND LGTH OF PANELS	DIST C C TRUSSES	DEPTH AT CENTER	TYPE EXP	STD DWG

SUBSTRUCTURE

BENT NO	TYPE AND MATL	HT GRADE TO TOP CAP	HT TOP CAP TO BOTT FOOT	NO AND LGTH PILES	FOUNDATION MATL	DIST GRADE TO GROUND	
REAR ABUT							
FWD							
PIER OR BENT							

DL 4.65

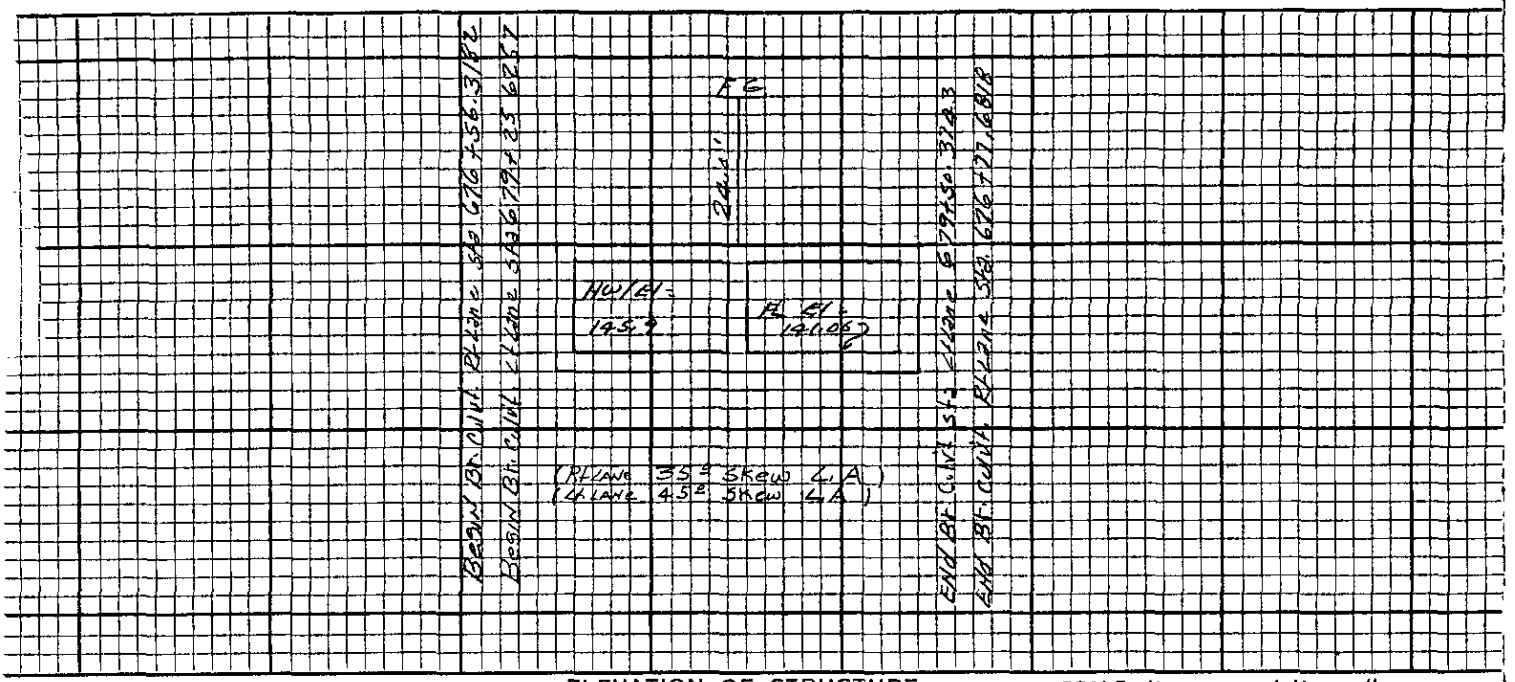
BIN: 9855 (CULVERT)

BRIDGE NO	COUNTY	FED RT	U S HWY	PROJECT NO	TYPE	STRENGTH				ROADWAY						CLEARANCE			
						H10	H10	H15	H20	18	18 19	20 21	22 24	24+		12	12 1½	14+	OPEN
10 02 10.8	BALDWIN	—	—	I-10-1(21)35	P.C.C.				■					■					■

FORM BI-5 STATE OF ALABAMA HIGHWAY DEPARTMENT

TRUSS - SLAB - BEAM AND GIRDER BRIDGES

DATE 8-4-71



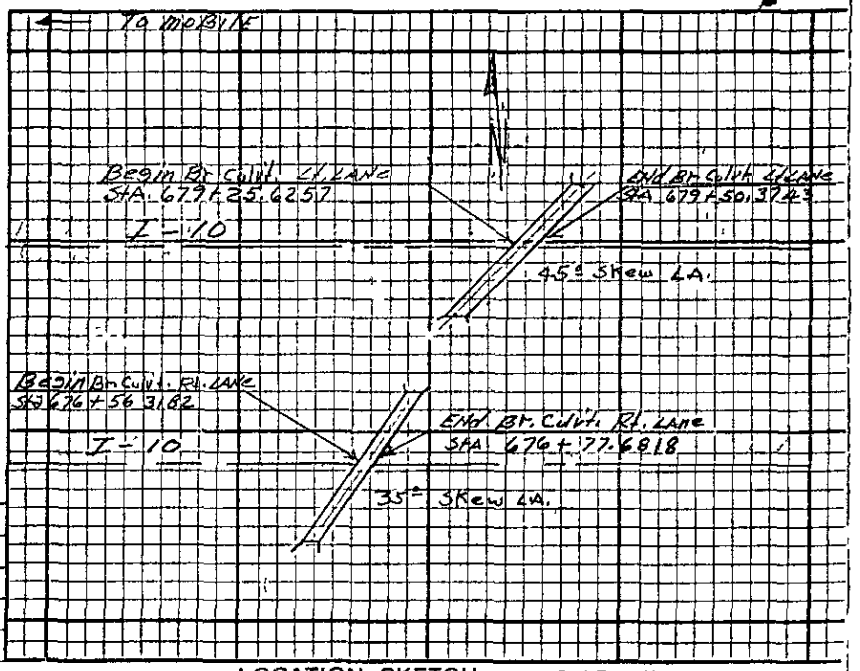
ELEVATION OF STRUCTURE SCALE H- 1" = 10' V- 1" = 10'

GENERAL

NAME OF BRIDGE:	MIN DESIGN RATING: H15 To H20 SIC FOR:
OVER: STREAM R R OR HIGHWAY: Stream	OPERATING RATING:
WHEN BUILT? 1969 BY: State	APPROACH PAVT TYPE: Asphalt
MAINT BY: State OVERALL Rt lane 21.3636 LGTH. FLOOR: Lt lane 24.7486	PAVT. WIDTH: 2@ 24' SHOULDER WIDTH: 2@ 40'
NO AND LENGTH OF SPANS: C D 8'X5' X 289'	SIGHT DIST VERT HORIZ:
	ORIG COST:

REMARKS Rt & Lt Rdwy

PHOTOGRAPH



LOCATION SKETCH SCALE 1" = 300'

WATERWAY DATA

DIST LOW BRIDGE TO HW:	GRADE TO LOW BRIDGE:
DRAINAGE AREA:	
CHARACTER AND CONSTANT	
CHANNEL DEPTH:	WIDTH BETW BANKS:
NATURE OF BOTTOM:	
CONDITION OF BANKS	
DESCRIP OF PROTECTIVE WORKS	
DOES ALL FLOOD PASS STRUCTURE?	IF NOT, WHERE?

REMARKS

H L NELSON
STATE HIGHWAY DIRECTOR
BLUE BARBER
ASSISTANT HIGHWAY DIRECTOR

STATE OF ALABAMA
HIGHWAY DEPARTMENT
MONTGOMERY, ALABAMA 36104

July 8, 1968

B/11

Plotted 8-69 J.F.

Foundation Borings
Baldwin Co

Mr. W. F. Land
Interstate Engineer
Bureau of Interstate
O F F I C E

Re: I-10-1(21) Baldwin County
Spanish Fort to Loxley

Dear Sir:

Attached are the results of foundation investigation for culverts on the above project.

This investigation was performed by the Fifth Division and this office concurs in their recommendations.

Yours very truly,

D. B. Flournoy, Engineer
of Materials and Tests

BY Edward Eiland
Edward Eiland, Assistant
Engineer of Materials
and Tests

EE:sre

cc: Mr. W. D. Crawford
Mr. B. E. Higgins
Mr. M. E. Ming
File

Attachments

STATE OF ALABAMA
HIGHWAY DEPARTMENT

FIFTH DIVISION
OFFICE OF DIVISION ENGINEER
P O BOX 7158
MOBILE, ALABAMA 36607

1701 Belt Line Highway, North
Telephone 471-3441

H L NELSON
STATE HIGHWAY DIRECTOR
BLUE BARBER
ASSISTANT HIGHWAY DIRECTOR

July 1,1968

Mr. D. B. Flournoy, Engineer
Bureau of Materials & Tests
State Highway Department
Montgomery, Alabama

Re: I-10-1(21)
Spanish Fort - Loxley
Baldwin County

Dear Sir:

Attached are several copies of results of soil borings taken at Culvert Sites shown on plans for the above numbered project.

Most of the culverts (with the exceptions shown below) are located in muck sections where muck will be removed and underwater backfill placed prior to construction of the culverts and will not require undercutting and backfilling for Culvert Excavation.

The following Culvert Sites will require undercutting and foundation backfill.

Station		Average depth undercut required
671+78	Lt. Lane	2.0 ft.
726+00	Rt. Lane	2.0 ft.
726+30	Lt. Lane	2.0 ft.
12+55	U.S. 90 connection	5.0 ft.

It is recommended that foundation backfill be set up under Item 108-D, Local Material for Bridge Culverts and Item 109-B, Local Material for Culverts and Minor Structures.

Yours very truly,

W. R. Glass
Acting Division Engineer

By T. G. Drinkard
T. G. Drinkard
Assistant Division Engineer

TGD/dr
Attach.
cc: File (2)

Mr. D.B. Flournoy, Engineer
Bureau of Materials and Tests
State Highway Department
Montgomery, Ala.

Re: I-10-1(99)21
Spanish Fort - Loxley
Baldwin County

Dear Sir:

Listed below are the results of Soundings made at the Culvert Sites on the above Project.

Station 441+30 275' Left Centerline

Elevation of Hub - 7.2

7.2	to 5.2	Very soft gray sandy muck and water
+5.2	to -2.8	Dense fine to medium grained sand
-2.8	to -6.8	Soft gray silty clay
-6.8	to -17.8	Loose gray silty sand with silty clay layers

Station 441+30 Centerline

Elevation of Hub - 4.0

4.0	to -3.0	Very soft gray silty clay, muck and water
-3.0	to -8.0	Dense medium grained sand
-8.0	to -21.0	Medium stiff gray silty clay and fine sand

Station 441+30 135' Right Centerline

Elevation of Hub - 4.3

4.3	to 1.3	Very soft black muck and water
1.3	to -1.7	Loose fine gray silty sand with small amount Organic Matter.
-1.7	to -17.7	Dense gray medium grained silty sand
-17.7	to -20.7	Medium stiff gray silty clay

Station 512+80 Centerline

Elevation of Hub - 48.3

48.3	to 46.3	Very loose brown silty sand with small amount Organic Matter
46.3	to 44.3	Very soft black sandy muck
44.3	to 33.3	Dense medium grained sand with soft clay layer
33.3	to 26.3	Soft gray silty marine clay
26.3	to 23.3	Stiff blue marine clay with few small gravel

Station 512+80 240' Right Centerline

Elevation of Hub - 44.6

44.6	to 42.6	Soft brown sand clay and muck
42.6	to 40.6	Medium dense brown sand clay
40.6	to 30.6	Loose gray medium to fine silty sand
30.6	to 19.6	Soft gray silty marine clay

Station 512+80 200' Left Centerline

Elevation of Hub - 50.5

50.5	to 46.5	Soft black muck
46.5	to 41.5	Loose gray silty sand with silty clay layers
41.5	to 25.5	Medium stiff gray silty marine clay

Station 532+60 160' Right Centerline

Elevation of Hub - 44.6

44.6	to 38.6	Very soft black muck
38.6	to 32.6	Loose fine gray silty sand
32.6	to 19.6	Medium dense gray and brown sand

Station 532+60 10' Left Centerline

Elevation of Hub - 45.3

45.3	to 39.3	Very soft black muck
39.3	to 33.3	Loose fine gray silty sand
33.3	to 28.3	Dense brown sand with few pea gravel
28.3	to 20.3	Medium dense tan and yellow sand clay

Station 532+60 155' Left Centerline

Elevation of Hub - 46.2

46.2	to 40.2	Very soft black muck
40.2	to 36.2	Loose gray silty sand
36.2	to 21.2	Dense coarse to medium grained sand

Station 654+12 85' Right Centerline Left Lane

Elevation of Hub - 143.1

143.1	to 136.1	Medium dense brown sand clay
136.1	to 129.1	Dense tan fine silty sand
129.1	to 124.1	Dense tan medium to coarse sand with small amount clay layers
124.1	to 118.1	Soft pink clay

Station 654+12 Centerline Left Lane

Elevation of Hub - 140.0

140.0	to	131.0	Very soft black muck
131.0	to	124.0	Dense tan silty sand
124.0	to	115.0	Dense yellow and brown sand with clay layers

Station 654+12 90' Left Centerline Left Lane

Elevation of Hub - 140.3

140.3	to	133.3	Very soft black muck
133.3	to	131.3	Soft gray sand clay
131.3	to	128.3	Medium dense brown sand clay

Station 654+90 Centerline Right Lane

Elevation of Hub - 138.0

138.0	to	131.0	Very soft black muck
131.0	to	124.0	Dense gray silty sand
124.0	to	113.0	Medium dense gray and yellow sand clay

Station 654+90 90' Right Centerline Right Lane

Elevation of Hub - 137.0

137.0	to	131.0	Very soft black muck
131.0	to	129.0	Dense gray silty sand
129.0	to	125.0	Dense tan sand

Station 671+78 Centerline Left Lane

Elevation of Hub - 148.0

148.0	to	146.5	Black loamy top soil
146.5	to	143.0	Medium stiff brown wet silty clay
143.0	to	138.0	Medium dense tan sand clay
138.0	to	123.0	Dense red and tan medium grained sand

Station 671+78 90' Right Centerline Left Lane

Elevation of Hub - 146.7

146.7	to	144.7	Black loamy top soil
144.7	to	140.7	Medium stiff brown silty clay
140.7	to	136.7	Medium dense gray and red sand clay
136.7	to	121.7	Dense red and tan medium grained sand

Station 671+78 80' Left Centerline Left Lane

Elevation of Hub - 149.0

149.0	to	148.0	Black loamy top soil
148.0	to	143.0	Medium stiff brown silty clay
143.0	to	124.0	Dense tan grained snad

Station 673+70 Centerline Right Lane

Elevation of Hub 144.8

144.8	to 137.8	Very soft black muck and silt
137.8	to 132.8	Medium dense gray sand clay
132.8	to 127.8	Loose yellow coarse grained sand
127.8	to 119.8	Dense tan coarse grained sand

Station 673+70 125' Right Centerline Right Lane

Elevation of Hub - 142.8

142.8	to 134.8	Very soft black muck
134.8	to 130.8	Medium dense gray sand clay
130.8	to 125.8	Loose tan medium grained sand
125.8	to 117.8	Dense tan medium to coarse sand

Station 673+70 110' Left Centerline Right Lane

Elevation of Hub - 146.3

146.3	to 136.3	Very soft black muck
136.3	to 132.3	Medium dense gray sand clay
132.3	to 121.3	Loose tan med grained sand

Station 676+65 110' Left Centerline Right Lane

Elevation of Hub - 141.7

141.7	to 132.7	Very Soft black muck
132.7	to 120.7	Dense gray and tan medium grained sand
120.7	to 116.7	Soft yellow silty clay

Station 676+65 Centerline Right Lane

Elevation of Hub - 141.2

141.2	to 131.2	Very soft black muck
131.2	to 122.2	Dense gray and tan medium grained sand
122.2	to 116.2	Soft yellow silty clay

Station 676+65 130' Right Centerline Right Lane

Elevation of Hub - 141.1

141.1	to 131.1	Very soft black muck
131.1	to 129.1	Dense gray fine to medium grained sand

Station 679+40 130' Right Centerline Left Lane

Elevation of Hub - 143.8

143.8	to 132.8	Very soft black muck
132.8	to 12118	Dense gray medium grained sand
121.8	to 118.8	Soft yellow silty clay

Station 679+40 130' Left Centerline Left Lane

Elevation of Hub - 146.0

146.0	to 135.0	Very soft black muck
135.0	to 132.0	Dense gray and tan medium grained sand

Station 679+40 Centerline Left Lane

Elevation of Hub - 144.9

144.9	to 134.9	Very soft black muck
134.9	to 132.9	Dense gray medium grained sand

Station 726+00 Centerline Right Lane

Elevation of Hub - 118.3

118.3	to 116.3	Soft black muck
116.3	to 110.3	Dense fine white sand
110.3	to 108.3	Dense coarse tan and yellow sand with pea gravel

Station 726+00 120' Right Centerline Right Lane

Elevation of Hub - 117.6

117.6	to 114.6	Soft black muck
114.6	to 111.6	Dense Fine white sand

Station 726+00 120' Left Centerline Right Lane

Elevation of Hub - 119.0

119.0	to 116.0	Soft black sandy muck
116.0	to 111.0	Dense fine gray sand

Station 726+30 115' Right Centerline Left Lane

Elevation of Hub - 119.9

119.9	to 116.9	Soft black muck
116.9	to 114.9	Soft gray silty clay
114.9	to 112.9	Medium dense gray sand clay
112.9	to 110.9	Dense fine white sand

Station 726+30 Centerline Left Lane

Elevation of Hub - 120.2

120.2	to 117.2	Soft black muck
117.2	to 115.2	Loose tan sand with traces of Organtic Matter
115.2	to 113.2	Dense fine white sand
113.2	to 110.2	Dense coarse white sand with pea gravel

Station 726+30 115' Left Centerline Left Lane

Elevation of Hub - 120.8

120.8	to 116.8	Soft black muck
116.8	to 115.8	Soft gray silty clay
115.8	to 112.8	Medium stiff gray silty clay

Station 773+00 140' Left Centerline Right Lane

Elevation of Hub - 132.7

132.7	to 125.7	Soft wet gray silty clay and organic matter
125.7	to 118.7	Medium dense fine red sand clay
118.7	to 107.7	Dense tan fine to medium grained sand

Station 773+00 Centerline Right Lane

Elevation of Hub - 133.6

133.6	to 126.2	Soft wet silty clay and Organic Matter
126.6	to 124.6	Medium dense gray sand clay
124.6	to 108.6	Dense fine tan sand

Station 773+00 130' Right Centerline Right Lane

Elevation fo Hub - 136.2

136.2	to 129.2	Medium dense tan sand clay, small layer sand stone
129.2	to 111.2	Medium dense tan and red medium grained sand

Station 776+12 Centerline Left Lane

Elevation of Hub - 130.1

130.1	to 123.1	Soft silt, clay and Organic Matter
123.1	to 115.1	Medium dense fine tan sand clay
115.1	to 105.1	Medium dense fine tan sand

Station 776+12 115' Right Centerline Left Lane

Elevation of Hub - 130.9

130.9	to 123.9	Soft gray silty clay and Organic matter
123.9	to 116.9	Loose fine tan silty sand
116.9	to 105.9	Dense fine tan sand

Station 776+12 100' Left Centerline Left Lane

Elevation of Hub - 129.5

129.5	to 122.5	Soft gray silty clay and Organic Matter
122.5	to 104.5	Medium dense fine tan silty sand

Station 776+50 180' Left Centerline Left Lane (Servic Road)

Elevation of Hub - 129.4

129.4	to 122.4	Soft black silty clay and Organic Matter
122.4	to 104.4	Medium dense tan and yellow sand

Station 776+50 — 230' Left Centerline Left Lane (Servic Road)

Elevation of Hub - 129.2

129.2	to	123.2	Soft black silty clay and Organic Matter
123.2	to	115.2	Loose fine gray silty sand
115.2	to	104.2	Medium dense tan sand

Station 12+55 — 45' Left (US 90 Connection)

Elevation of Hub - 3.0

3.0	to	-17.0	Soft gray silty clay and sand
-17.0	to	-22.0	Soft gray silty clay

Station 12+45 — 50' Right (US 90 Connection)

Elevation of Hub - 4.8

4.8	to	1.8	Loose coarse tan sand
1.8	to	-2.2	Very soft gray silty clay
-2.2	to	-20.2	Medium dense gray silty sand

Yours very truly,

Assistant Division Engineer

SUPERSTRUCTURE

FLOOR CROWN: SUPERELEVATION: VERT CLEAR: OPEN

SIDEWALKS: EXP JT MATL.: DRAINS

SPAN NO	FLOOR DEPTH AND MATL	WEAR SURF DEPTH AND MATL	CURBS HEIGHT AND MATL	RAILING					CLEARANCE	
				TYPE	NO	MATL	HT	POSTS	BETW CURBS	BETW RAILS

STRINGERS - BEAMS OR GIRDERS

SPAN NO	MATL	SPAN C C BEARS	NO OF BEAMS	SPACING	SECTION		TYPE EXP	STD DWG	DESIGN RATING
					OUTS STRING	INS STRING			

TRUSSES

WHEN MADE: YIELD POINT: FABRICATED BY:

DESIGN RATING: FLOOR: TRUSSES

SPAN NO	MATL KIND - TYPE - CONNS	SPAN C C BEARS	NO AND LGTH OF PANELS	DIST C C TRUSSES	DEPTH AT CENTER	TYPE EXP	STD DWG

SUBSTRUCTURE

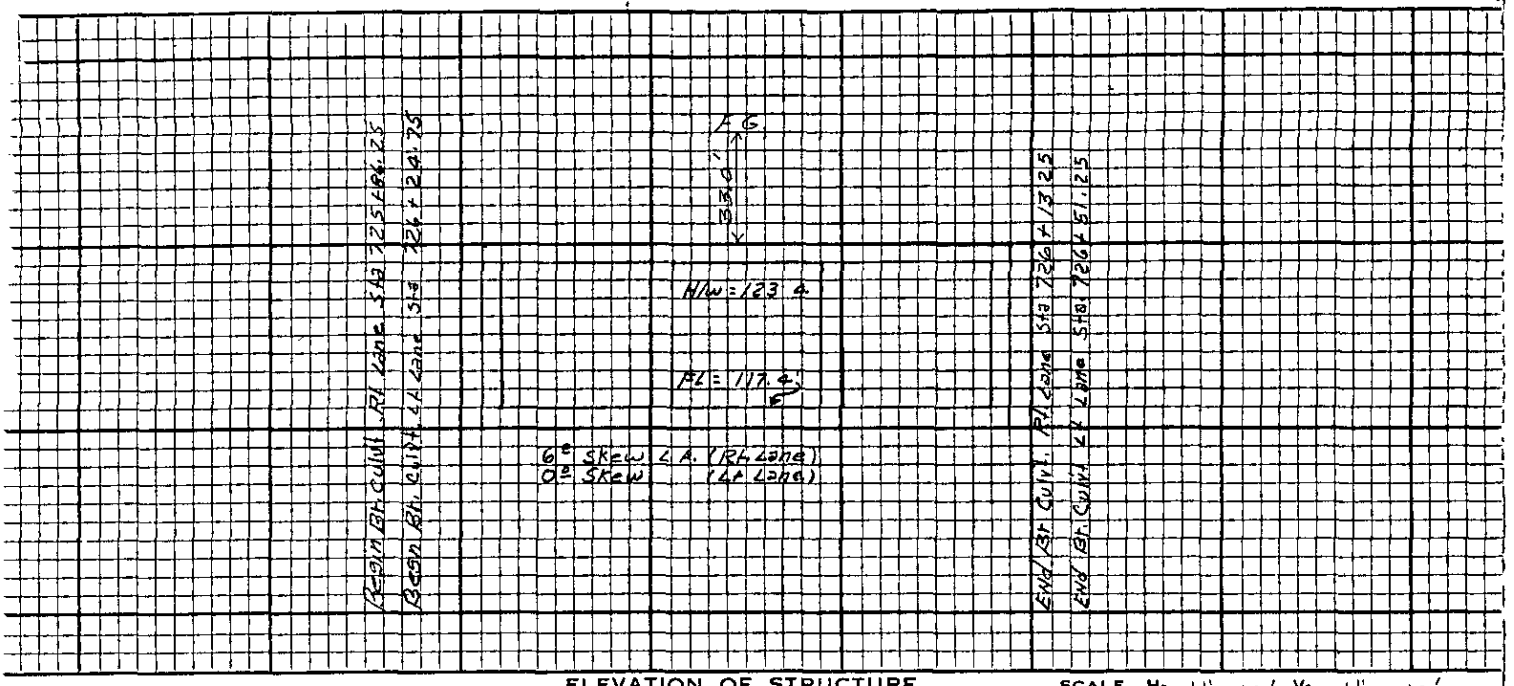
BENT NO	TYPE AND MATL	HT GRADE TO TOP CAP	HT TOP CAP TO BOTT FOOT	NO AND LGTH PILES	FOUNDATION MATL	DIST GRADE TO GROUND	
REAR ABUT :							
FWD :							
PIER OR BENT							

DL = 5.84

BIN: 9856 (CULVERT)

BRIDGE NO	COUNTY	FED RT	U S HWY	PROJECT NO	TYPE	STRENGTH				ROADWAY					CLEARANCE			
						H10	H10	H15	H20	18	18 18	20 21	22 24	24+	-12	12 1\	14+	OPEN
10 02 11.7	Baldwin	—	—	I-10-1(21)55	R.C.C.				■					■				■

FORM BI-S STATE OF ALABAMA HIGHWAY DEPARTMENT TRUSS - SLAB - BEAM AND GIRDER BRIDGES DATE 8-4-71



ELEVATION OF STRUCTURE

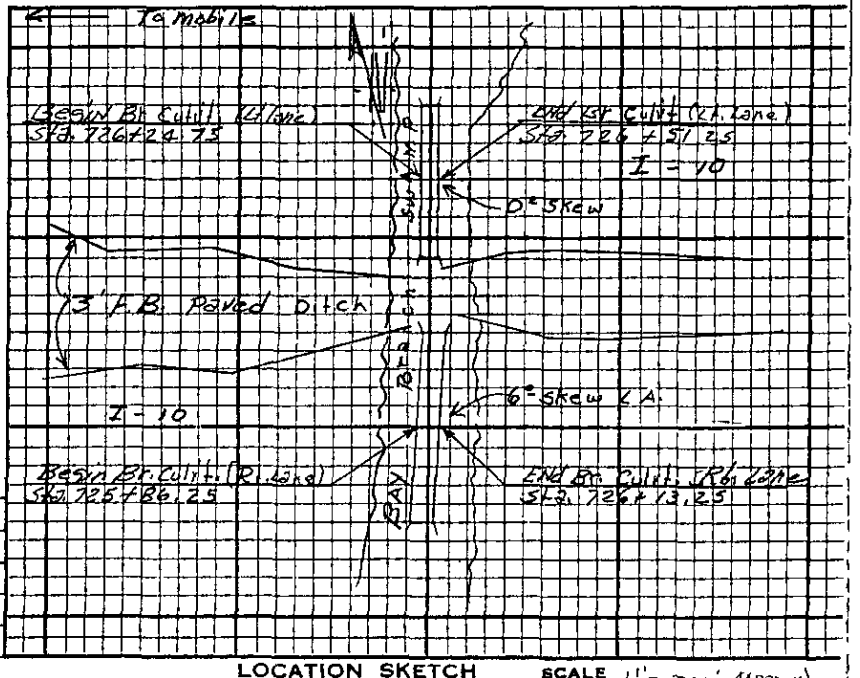
SCALE H- 1" = 10' V- 1" = 10'

GENERAL

NAME OF BRIDGE:	MIN DESIGN RATING: H15 To H20S16 FOR:
OVER STREAM R R OR HIGHWAY: Bay Branch	OPERATING RATING:
WHEN BUILT? 1969 BY: State	APPROACH PAVT TYPE: Asphalt
MAINT BY State OVERALL LGTH FLOOR: Lt Lane 28 8" Rt Lane 26 50'	PAVT WIDTH: 2 @ 24' SHOULDER WIDTH: 2 @ 40'
NO AND LENGTH OF SPANS: C.T 8'x8'x 265' (Rt Lane) C.T 8'x8'x 256' (Lt Lane)	SIGHT DIST VERT HORIZ
	ORIG COST:

REMARKS: Lt. & Rt Rdwy

PHOTOGRAPH



LOCATION SKETCH SCALE 1" = 300' (Approx)

WATERWAY DATA

DIST LOW BRIDGE TO HW:	GRADE TO LOW BRIDGE:
DRAINAGE AREA: 946 AC	
CHARACTER AND CONSTANT Q = 11150 CFS	
CHANNEL DEPTH:	WIDTH BETW BANKS:
NATURE OF BOTTOM:	
CONDITION OF BANKS	
DESCRIP OF PROTECTIVE WORKS	
DOES ALL FLOOD PASS STRUCTURE?	IF NOT, WHERE?

REMARKS

H L NELSON
STATE HIGHWAY DIRECTOR
BLUE BARBER
ASSISTANT HIGHWAY DIRECTOR

STATE OF ALABAMA
HIGHWAY DEPARTMENT
MONTGOMERY, ALABAMA 36104

July 8, 1968

B/11

Plotted 8-69 J.F.

Foundation Borings
Baldwin Co

Mr. W. F. Land
Interstate Engineer
Bureau of Interstate
O F F I C E

Re: I-10-1(21) Baldwin County
Spanish Fort to Loxley

Dear Sir:

Attached are the results of foundation investigation for culverts on the above project.

This investigation was performed by the Fifth Division and this office concurs in their recommendations.

Yours very truly,

D. B. Flournoy, Engineer
of Materials and Tests

BY Edward Eiland
Edward Eiland, Assistant
Engineer of Materials
and Tests

EE:sre

cc: Mr. W. D. Crawford
Mr. B. E. Higgins
Mr. M. E. Ming
File

Attachments

STATE OF ALABAMA
HIGHWAY DEPARTMENT

FIFTH DIVISION
OFFICE OF DIVISION ENGINEER
P O BOX 7158
MOBILE, ALABAMA 36607

1701 Belt Line Highway, North
Telephone 471-3441

H L NELSON
STATE HIGHWAY DIRECTOR
BLUE BARBER
ASSISTANT HIGHWAY DIRECTOR

July 1,1968

Mr. D. B. Flournoy, Engineer
Bureau of Materials & Tests
State Highway Department
Montgomery, Alabama

Re: I-10-1(21)
Spanish Fort - Loxley
Baldwin County

Dear Sir:

Attached are several copies of results of soil borings taken at Culvert Sites shown on plans for the above numbered project.

Most of the culverts (with the exceptions shown below) are located in muck sections where muck will be removed and underwater backfill placed prior to construction of the culverts and will not require undercutting and backfilling for Culvert Excavation.

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Station		Average depth undercut required
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726+00	Rt. Lane	2.0 ft.
726+30	Lt. Lane	2.0 ft.
12+55	U.S. 90 connection	5.0 ft.

It is recommended that foundation backfill be set up under Item 108-D, Local Material for Bridge Culverts and Item 109-B, Local Material for Culverts and Minor Structures.

Yours very truly,

W. R. Glass
Acting Division Engineer

By T. G. Drinkard
T. G. Drinkard
Assistant Division Engineer

TGD/dr
Attach.
cc: File (2)

Mr. D.B. Flournoy, Engineer
Bureau of Materials and Tests
State Highway Department
Montgomery, Ala.

Re: I-10-1(99)21
Spanish Fort - Loxley
Baldwin County

Dear Sir:

Listed below are the results of Soundings made at the Culvert Sites on the above Project.

Station 441+30 275' Left Centerline

Elevation of Hub - 7.2

7.2	to 5.2	Very soft gray sandy muck and water
+5.2	to -2.8	Dense fine to medium grained sand
-2.8	to -6.8	Soft gray silty clay
-6.8	to -17.8	Loose gray silty sand with silty clay layers

Station 441+30 Centerline

Elevation of Hub - 4.0

4.0	to -3.0	Very soft gray silty clay, muck and water
-3.0	to -8.0	Dense medium grained sand
-8.0	to -21.0	Medium stiff gray silty clay and fine sand

Station 441+30 135' Right Centerline

Elevation of Hub - 4.3

4.3	to 1.3	Very soft black muck and water
1.3	to -1.7	Loose fine gray silty sand with small amount Organic Matter.
-1.7	to -17.7	Dense gray medium grained silty sand
-17.7	to -20.7	Medium stiff gray silty clay

Station 512+80 Centerline

Elevation of Hub - 48.3

48.3	to 46.3	Very loose brown silty sand with small amount Organic Matter
46.3	to 44.3	Very soft black sandy muck
44.3	to 33.3	Dense medium grained sand with soft clay layer
33.3	to 26.3	Soft gray silty marine clay
26.3	to 23.3	Stiff blue marine clay with few small gravel

Station 512+80 240' Right Centerline

Elevation of Hub - 44.6

44.6	to 42.6	Soft brown sand clay and muck
42.6	to 40.6	Medium dense brown sand clay
40.6	to 30.6	Loose gray medium to fine silty sand
30.6	to 19.6	Soft gray silty marine clay

Station 512+80 200' Left Centerline

Elevation of Hub - 50.5

50.5	to 46.5	Soft black muck
46.5	to 41.5	Loose gray silty sand with silty clay layers
41.5	to 25.5	Medium stiff gray silty marine clay

Station 532+60 160' Right Centerline

Elevation of Hub - 44.6

44.6	to 38.6	Very soft black muck
38.6	to 32.6	Loose fine gray silty sand
32.6	to 19.6	Medium dense gray and brown sand

Station 532+60 10' Left Centerline

Elevation of Hub - 45.3

45.3	to 39.3	Very soft black muck
39.3	to 33.3	Loose fine gray silty sand
33.3	to 28.3	Dense brown sand with few pea gravel
28.3	to 20.3	Medium dense tan and yellow sand clay

Station 532+60 155' Left Centerline

Elevation of Hub - 46.2

46.2	to 40.2	Very soft black muck
40.2	to 36.2	Loose gray silty sand
36.2	to 21.2	Dense coarse to medium grained sand

Station 654+12 85' Right Centerline Left Lane

Elevation of Hub - 143.1

143.1	to 136.1	Medium dense brown sand clay
136.1	to 129.1	Dense tan fine silty sand
129.1	to 124.1	Dense tan medium to coarse sand with small amount clay layers
124.1	to 118.1	Soft pink clay

Station 654+12 Centerline Left Lane

Elevation of Hub - 140.0

140.0	to	131.0	Very soft black muck
131.0	to	124.0	Dense tan silty sand
124.0	to	115.0	Dense yellow and brown sand with clay layers

Station 654+12 90' Left Centerline Left Lane

Elevation of Hub - 140.3

140.3	to	133.3	Very soft black muck
133.3	to	131.3	Soft gray sand clay
131.3	to	128.3	Medium dense brown sand clay

Station 654+90 Centerline Right Lane

Elevation of Hub - 138.0

138.0	to	131.0	Very soft black muck
131.0	to	124.0	Dense gray silty sand
124.0	to	113.0	Medium dense gray and yellow sand clay

Station 654+90 90' Right Centerline Right Lane

Elevation of Hub - 137.0

137.0	to	131.0	Very soft black muck
131.0	to	129.0	Dense gray silty sand
129.0	to	125.0	Dense tan sand

Station 671+78 Centerline Left Lane

Elevation of Hub - 148.0

148.0	to	146.5	Black loamy top soil
146.5	to	143.0	Medium stiff brown wet silty clay
143.0	to	138.0	Medium dense tan sand clay
138.0	to	123.0	Dense red and tan medium grained sand

Station 671+78 90' Right Centerline Left Lane

Elevation of Hub - 146.7

146.7	to	144.7	Black loamy top soil
144.7	to	140.7	Medium stiff brown silty clay
140.7	to	136.7	Medium dense gray and red sand clay
136.7	to	121.7	Dense red and tan medium grained sand

Station 671+78 80' Left Centerline Left Lane

Elevation of Hub - 149.0

149.0	to	148.0	Black loamy top soil
148.0	to	143.0	Medium stiff brown silty clay
143.0	to	124.0	Dense tan grained snad

Station 673+70 Centerline Right Lane

Elevation of Hub 144.8

144.8	to 137.8	Very soft black muck and silt
137.8	to 132.8	Medium dense gray sand clay
132.8	to 127.8	Loose yellow coarse grained sand
127.8	to 119.8	Dense tan coarse grained sand

Station 673+70 125' Right Centerline Right Lane

Elevation of Hub - 142.8

142.8	to 134.8	Very soft black muck
134.8	to 130.8	Medium dense gray sand clay
130.8	to 125.8	Loose tan medium grained sand
125.8	to 117.8	Dense tan medium to coarse sand

Station 673+70 110' Left Centerline Right Lane

Elevation of Hub - 146.3

146.3	to 136.3	Very soft black muck
136.3	to 132.3	Medium dense gray sand clay
132.3	to 121.3	Loose tan med grained sand

Station 676+65 110' Left Centerline Right Lane

Elevation of Hub - 141.7

141.7	to 132.7	Very Soft black muck
132.7	to 120.7	Dense gray and tan medium grained sand
120.7	to 116.7	Soft yellow silty clay

Station 676+65 Centerline Right Lane

Elevation of Hub - 141.2

141.2	to 131.2	Very soft black muck
131.2	to 122.2	Dense gray and tan medium grained sand
122.2	to 116.2	Soft yellow silty clay

Station 676+65 130' Right Centerline Right Lane

Elevation of Hub - 141.1

141.1	to 131.1	Very soft black muck
131.1	to 129.1	Dense gray fine to medium grained sand

Station 679+40 130' Right Centerline Left Lane

Elevation of Hub - 143.8

143.8	to 132.8	Very soft black muck
132.8	to 12118	Dense gray medium grained sand
121.8	to 118.8	Soft yellow silty clay

Station 679+40 130' Left Centerline Left Lane

Elevation of Hub - 146.0

146.0	to 135.0	Very soft black muck
135.0	to 132.0	Dense gray and tan medium grained sand

Station 679+40 Centerline Left Lane

Elevation of Hub - 144.9

144.9	to 134.9	Very soft black muck
134.9	to 132.9	Dense gray medium grained sand

Station 726+00 Centerline Right Lane

Elevation of Hub - 118.3

118.3	to 116.3	Soft black muck
116.3	to 110.3	Dense fine white sand
110.3	to 108.3	Dense coarse tan and yellow sand with pea gravel

Station 726+00 120' Right Centerline Right Lane

Elevation of Hub - 117.6

117.6	to 114.6	Soft black muck
114.6	to 111.6	Dense Fine white sand

Station 726+00 120' Left Centerline Right Lane

Elevation of Hub - 119.0

119.0	to 116.0	Soft black sandy muck
116.0	to 111.0	Dense fine gray sand

Station 726+30 115' Right Centerline Left Lane

Elevation of Hub - 119.9

119.9	to 116.9	Soft black muck
116.9	to 114.9	Soft gray silty clay
114.9	to 112.9	Medium dense gray sand clay
112.9	to 110.9	Dense fine white sand

Station 726+30 Centerline Left Lane

Elevation of Hub - 120.2

120.2	to 117.2	Soft black muck
117.2	to 115.2	Loose tan sand with traces of Organtic Matter
115.2	to 113.2	Dense fine white sand
113.2	to 110.2	Dense coarse white sand with pea gravel

Station 726+30 115' Left Centerline Left Lane

Elevation of Hub - 120.8

120.8	to 116.8	Soft black muck
116.8	to 115.8	Soft gray silty clay
115.8	to 112.8	Medium stiff gray silty clay

Station 773+00 140' Left Centerline Right Lane

Elevation of Hub - 132.7

132.7	to 125.7	Soft wet gray silty clay and organic matter
125.7	to 118.7	Medium dense fine red sand clay
118.7	to 107.7	Dense tan fine to medium grained sand

Station 773+00 Centerline Right Lane

Elevation of Hub - 133.6

133.6	to 126.2	Soft wet silty clay and Organic Matter
126.6	to 124.6	Medium dense gray sand clay
124.6	to 108.6	Dense fine tan sand

Station 773+00 130' Right Centerline Right Lane

Elevation fo Hub - 136.2

136.2	to 129.2	Medium dense tan sand clay, small layer sand stone
129.2	to 111.2	Medium dense tan and red medium grained sand

Station 776+12 Centerline Left Lane

Elevation of Hub - 130.1

130.1	to 123.1	Soft silt, clay and Organic Matter
123.1	to 115.1	Medium dense fine tan sand clay
115.1	to 105.1	Medium dense fine tan sand

Station 776+12 115' Right Centerline Left Lane

Elevation of Hub - 130.9

130.9	to 123.9	Soft gray silty clay and Organic matter
123.9	to 116.9	Loose fine tan silty sand
116.9	to 105.9	Dense fine tan sand

Station 776+12 100' Left Centerline Left Lane

Elevation of Hub - 129.5

129.5	to 122.5	Soft gray silty clay and Organic Matter
122.5	to 104.5	Medium dense fine tan silty sand

Station 776+50 180' Left Centerline Left Lane (Servic Road)

Elevation of Hub - 129.4

129.4	to 122.4	Soft black silty clay and Organic Matter
122.4	to 104.4	Medium dense tan and yellow sand

Station 776+50 — 230' Left Centerline Left Lane (Servic Road)

Elevation of Hub - 129.2

129.2	to	123.2	Soft black silty clay and Organic Matter
123.2	to	115.2	Loose fine gray silty sand
115.2	to	104.2	Medium dense tan sand

Station 12+55 — 45' Left (US 90 Connection)

Elevation of Hub - 3.0

3.0	to	-17.0	Soft gray silty clay and sand
-17.0	to	-22.0	Soft gray silty clay

Station 12+45 — 50' Right (US 90 Connection)

Elevation of Hub - 4.8

4.8	to	1.8	Loose coarse tan sand
1.8	to	-2.2	Very soft gray silty clay
-2.2	to	-20.2	Medium dense gray silty sand

Yours very truly,

Assistant Division Engineer

STATE OF ALABAMA
HIGHWAY DEPARTMENT
MONTGOMERY, ALABAMA 36104

H L NELSON
STATE HIGHWAY DIRECTOR
BLUE BARBER
ASSISTANT HIGHWAY DIRECTOR

September 19, 1968

Plotted 8-69
JF

Mr. B. E. Higgins
Bridge Engineer
O F F I C E

Re: Project I-10-1(21)35
Baldwin County
Foundation Investigation

Dear Sir:

Attached are the results of bridge foundation investigation conducted on the above project for bridges and culverts.

The borings indicate that adequate steel pile penetration can be obtained.

We recommend that the mucky material be removed at the culvert sites and replaced by foundation backfill.

Yours very truly,

D. B. Flournoy, Engineer
of Materials and Tests

By: Edward Eiland
Edward Eiland, Assistant Engineer
of Materials and Tests

WBH/sap
ccs:
Mr. W. R. Glass
Mr. W. F. Land
Mr. W. D. Bill, Resident Engineer
BPR (send to Mr. Higgins)
Mr. J. M. Ragland
Project File
File

Attachment

STATE HIGHWAY DEPARTMENT OF ALABAMA
BUREAU OF MATERIALS & TESTS
DIVISION OF MATERIALS
MONTGOMERY 4, ALABAMA

Form M & T F-1

September 18, 1968

Mr J. F. Tribble, Materials Engineer
Bureau of Materials & Research
State Highway Department
OFFICE

I-10-1(21)35
Underpass Alabama 181
Station 620+79
Re: Baldwin County

Dear Sir

Listed below are the results of soundings made at the above location.

15 Ft Rt. C/L Survey T. STA. 28+51

Elevation of Hub. 196.5

196.5	to	195.0	Fill Material
195.0	"	187.5	Medium gray sandy clay
187.5	"	180.0	Medium light gray sandy marl
180.0	"	179.9	Thin layer of pyrite
179.9	"	175.0	Dense red and brown silty sand
	"		
	"		
	"		

15 Ft Lt. C/L Survey T. STA. 28+51

Elevation of Hub 196.4

196.4	to	191.0	Stiff brown silty sandy clay
191.0	"	187.0	Dense gray sandy clay
187.0	"	186.0	Medium light gray and silty sandy clay
186.0	"	181.4	Dense brown and red silty sand
181.4	"	174.9	Dense red and pink silty sand
	"		
	"		
	"		

40 Ft Lt. C/L Survey T. STA. 28+51

Elevation of Hub 195.5

195.5	to	194.0	Medium red silty sandy clay
194.0	"	190.0	Medium gray sandy clay
190.0	"	185.5	Dense gray sandy clay
185.5	"	179.0	Dense brown silty sand w/ thin layers of pyrite.
	"		
179.0	"	174.0	Dense red and pink sand
	"		
	"		

40 Ft. Rt. C/L Survey T. STA. 28+51

Elevation of Hub 195.9

195.9	to	194.0	Stiff red silty sand and clay
194.0	"	190.0	Medium gray sandy clay
190.0	"	182.9	Dense light gray sandy clay
182.9	"	174.4	Dense red and pink sand
	"		
	"		
	"		
	"		

15 Ft Lt. C/L Survey T STA 29+18 Bent #2

Elevation of Hub 196.8

196.8	to	192.0	Medium brown silty sand
192.0	"	189.0	Medium brown silty sandy clay
189.0	"	185.0	Stiff red silty sandy clay
185.0	"	183.5	N=17
183.5	"	180.0	Dense red and pink sand
180.0	"	178.5	N=15
178.5	"	175.0	Dense red and pink sand
175.0	"	173.5	N=19

M & T F-1

(3)

Ft. T STA

Elevation of Hub

173.5	to	145.8	Dense red and pink sand
	"		
	"		
	"		
	"		
	"		
	"		
	"		

15 Ft Rt. C/L Survey T STA 29+18

Elevation of Hub 197.0

197.0	to	196.0	Medium red silty sand
196.0	"	189.0	Medium gray silty sandy clay
189.0	"	187.0	Stiff red silty clay
187.0	"	185.0	Dense red silty sandy clay
185.0	"	173.0	Dense red and pink silty sand
173.0	"	146.0	Dense white and red/silty sand
	"		
	"		

40 Ft Rt. C/L T STA 29+18

Elevation of Hub 196.4

196.4	to	194.0	Medium red sand clay
194.0	"	190.0	Stiff gray sandy clay
190.0	"	188.0	Stiff yellow sand clay
188.0	"	186.0	Stiff red clay w/ small amount of sand
186.0	"	181.0	Stiff red clay w/ small amount of gravel
181.0	"	178.0	Stiff red sand clay
178.0	"	163.0	Medium red sand w/ small amount of gravel
163.0	"	162.7	Soft red sandstone

_____ Ft. _____ T. STA _____

Elevation of Hub _____

162.7	to	146.0	Medium yellow sand
	"		
	"		
	"		
	"		
	"		
	"		
	"		

40 Ft. Lt. C/L Survey T. STA 29+18

Elevation of Hub 195.9

195.9	to	191.0	Medium gray sandy clay
191.0	"	189.0	Stiff brown clay
189.0	"	180.0	Stiff red clay w/ small amount of gravel
180.0	"	173.0	Stiff red sand clay
173.0	"	160.0	Medium yellow and red sand
160.0	"	145.0	Stiff wet red sand w/ layers of sand clay
	"		
	"		

40 Ft Lt. C/L Survey T STA 30+00

Elevation of Hub 196.9 Bent No. 3

196.9	to	195.0	Stiff brown sand clay
195.0	"	192.0	Stiff yellow clay w/ small amount of sand
192.0	"	180.0	Stiff red clay w/ small amount of sand
180.0	"	167.0	Stiff red sand
167.0	"	147.0	Medium yellow sand
	"		
	"		
	"		

M & T F-1

(20)
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15 Ft. Rt. C/L Survey STA 30+00

Elevation of Hub 197.6

197.6	to	196.0	Dense red silty sand
196.0	"	192.6	Medium gray sandy clay
192.6	"	191.0	Stiff red silty clay
191.0	"	185.0	Dense red silty sand
185.0	"	183.5	N=22
183.5	"	180.0	Dense red and pink sand
180.0	"	178.5	N=16
178.5	"	175.0	Dense white and pink sand

185.0 Bottom of Hole red silty sand

Ft T. STA.

Elevation of Hub

175.0	to	173.5	N=18
173.5	"	142.6	Dense white and pink sand
	"		
	"		
	"		
	"		
	"		
	"		

15 Ft Lt. C/L Survey STA 30+00

Elevation of Hub 197.6

197.6	to	191.0	Stiff brown silty clay
191.0	"	180.0	Stiff red silty sandy clay
180.0	"	177.6	Dense red silty sand
177.6	"	156.0	Dense red and pink silty sand
156.0	"	146.6	Dense pink and white sand
	"		
	"		
	"		

M & T F-1

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40 Ft. Rt. C/L Survey STA 30+00

Elevation of Hub 197.0

197.0	to	192.0	Stiff brown and red silty clay
192.0	"	180.0	Hard red silty clay
180.0	"	150.0	Dense red sand
150.0	"	146.0	Dense white and pink sand
	"		
	"		
	"		
	"		

15 Ft Rt. C/L Survey STA 30+82

Elevation of Hub 198.4 Bent # 4

198.4	to	198.0	Stiff brown silty clay
198.0	"	197.0	Stiff red silty clay
197.0	"	193.0	Stiff brown silty sand clay
193.0	"	184.0	Stiff red silty sand clay
184.0	"	144.4	Dense red and white silty sand
	"		
	"		
	"		

40 Ft Rt. C/L Survey STA 30+82

Elevation of Hub 197.8

197.8	to	195.0	Medium brown and red silty clay
195.0	"	191.0	Stiff brown and yellow clay
191.0	"	186.0	Hard red silty clay
186.0	"	184.5	N=31 184.5 bottom of hard red silty clay
184.5	"	181.0	Dense white and pink sand
181.0	"	179.5	N=20
179.5	"	176.0	Dense white and pink sand
176.0	"	174.5	N=19

_____ Ft. _____ T. STA _____

Elevation of Hub _____

174.5	to	146.0	Dense white and pink sand w/ thin layers
"			of sandrock
146.0	"	145.8	Very dense white and pink sand
"			
"			
"			
"			
"			

15 Ft Lt. C/L Survey T. STA 30+82

Elevation of Hub 198.3

198.3	to	196.9	Medium red sand clay
196.0	"	191.0	Stiff yellow clay
191.0	"	181.0	Stiff red clay w/ small amount of sand
181.0	"	177.0	Stiff red sand clay
177.0	"	168.0	Medium red sand w/ small amount of gravel
168.0	"	148.0	Dense fine white sand
"			
"			

40 Ft Lt. C/L Survey T STA 30+82

Elevation of Hub 197.2

197.2	to	191.0	Stiff yellow clay
191.0	"	179.0	Stiff red clay w/ small amount of sand
179.0	"	162.0	Medium brown sand
162.0	"	156.0	Medium yellow sand w/ small amount pea gravel
156.0	"	149.0	Dense fine white sand
"			
"			
"			

M & T F-1

(X)
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40 Ft. Lt. C/L Survey T. STA 31+49

Elevation of Hub 198.1 Abut. # 5

198.1	to	192.0	Stiff yellow clay
192.0	"	183.0	Stiff red clay w/ small amount of sand
183.0	"	178.0	Stiff red sand clay
178.0	"	173.0	Medium red sand
	"		
	"		
	"		
	"		

15 Ft. Lt. C/L Survey T. STA 31+49

Elevation of Hub 199.1

199.1	to	196.0	Stiff red sand clay
196.0	"	193.0	Stiff yellow sand clay
193.0	"	181.0	Stiff red clay w/ small amount of sand
181.0	"	174.0	Dense red sand
	"		
	"		
	"		
	"		

15 Ft Rt. C/L Survey T. STA 31+49

Elevation of Hub 199.0

199.0	to	198.0	Medium brown silty sand
198.0	"	196.0	Stiff red silty clay
196.0	"	189.0	Dense red silty sand
189.0	"	185.0	Dense brown silty sand
185.0	"	177.5	Dense red and pink sand
	"		
	"		
	"		

M & T F-1

(2)
(9)

40 Ft. Rt. C/L Survey T. STA. 31+49

Elevation of Hub 198.6

198.6	to	195.6	Dense red silty sand
195.6	"	193.0	Dense brown silty sand
193.0	"	192.0	Very Dense brown silty sand
192.0	"	177.1	Dense red and pink silty sand
	"		
	"		
	"		
	"		

Ft. T STA.

Elevation of Hub

	to		
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	"		
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Ft T STA

Elevation of Hub

	to		
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M & T F-1

(22) (10)

BRIDGE - 3 MILE CREEK

Culvert At Station 850+00

C/L Ft. Rt. Lane T. STA 850+00

Elevation of Hub 108.1 Culvert

108.1	to	104.7	Sandy muck
104.7	"	93.0	White fine sand
93.0	"	87.0	Stiff gray sandy clay
	"		
	"		
	"		
	"		
	"		

C/L Ft. Lt. Lane T. STA 850+00

Elevation of Hub 108.5

108.5	to	105.8	Muck
105.8	"	100.5	Gray sand w/ thin layers of clay
100.5	"	96.0	Fine yellow sand clay
96.0	"	94.0	Pea gravel w/ fine sand
94.6	"	87.0	Fine yellow sand w/ thin layers of clay
	"		
	"		
	"		

C/L Ft Rt. Lane T. STA 655+32

Elevation of Hub 138.1 Culvert at Sta. 655+00

138.1	to	134.0	Brown muck
134.0	"	129.0	Gray sand
129.0	"	128.0	Pea Gravel
128.0	"	117.0	Stiff gray sandy marl
	"		
	"		
	"		
	"		

M & T F-1

(8)
(11)

C/L Ft. Rt. Lane T. STA 655+00

Elevation of Hub 138.1

138.1	to	133.0	Brown muck
133.0	"	129.0	Gray sandy clay
129.0	"	125.0	Stiff gray sandy marl
	"		
	"		
	"		
	"		
	"		

110 Ft. Lt. T. STA 441+30

Culvert at Sta. 441+30

Elevation of Hub 5.2

5.2.	to	1.4	Muck
1.4	"	-1.0	Gray sand
-1.0	"	-5.0	Stiff yellow sand
-5.0	"	-6.0	Stiff gray marl
-6.0	"	-16.0	Stiff gray sandy marl
	"		
	"		
	"		

320 Ft. Lt. T. STA 441+30

Culvert at Sta. 441+30

Elevation of Hub 8.2

8.2	to	4.2	Brown muck
4.2	"	-1.0	Gray sand
-1.0	"	-7.0	Medium yellow sand
-7.0	"	-15.0	Medium gray sandy marl
	"		
	"		
	"		
	"		

M & T F-1

(2)
(12)

140 Ft. Rt. T. STA 441+30

Elevation of Hub 4.9

4.9	to	1.6	Muck
1.6	"	-13.0	Medium gray sand
-13.0	"	-17.0	Stiff gray sand marl
	"		
	"		
	"		
	"		
	"		

345 Ft. Rt. T. STA 441+30

Elevation of Hub 9.5

9.5	to	7.7	Muck
7.7	"	-5.0	Brown sandy clay
-5.0	"	-12.0	Medium gray sand w/ layers of sand clay
	"		
	"		
	"		
	"		
	"		

Abut. # 1 48 Ft Rt. C/L T. STA 520+44

Underpass US-98 at Sta. 431+00
Baldwin County

Elevation of Hub 24.1

24.1	to	20.0	Yellow Sand
20.0	"	16.0	Stiff brown sand clay w/ small amount of gravel
16.0	"	11.0	Stiff gray sandy clay
11.0	"	4.0	Medium gray sand
4.0	"	1.0	Soft yellow clay w/ small amount of sand
	"		
	"		
	"		

M & T F-1

(8)
(13)

10 Ft. Rt. T. STA. 520+44

Elevation of Hub 23.2

23.2	to	20.0	Brown clay
20.0	"	15.0	Stiff yellow and gray sand clay
15.0	"	6.0	Medium brown and gray clay w/ small amount
	"		of sand
6.0	"	2.0	Soft gray clay
	"		
	"		
	"		

20 Ft Lt. C/L T. STA. 520+44

Elevation of Hub 24.4

24.4	to	20.0	Red sand clay
20.0	"	10.0	Gray sand clay (Stiff)
10.0	"	4.0	Medium gray sand
4.0	"	1.0	Soft yellow clay
	"		
	"		
	"		
	"		

48 Ft Lt. C/L T. STA 520+44

Elevation of Hub 24.8

24.8	to	21.0	Yellow sand clay
21.0	"	11.0	Stiff brown sand clay
11.0	"	5.0	Stiff gray sand w/ layers of gray clay
5.0	"	0.0	Stiff yellow clay
	"		
	"		
	"		
	"		

(2)
(14)

20 Ft. Lt. C/L T. STA. 521+26

Elevation of Hub 22.6

22.6	to	18.0	Stiff brown sand clay
18.0	"	12.0	Stiff red sand clay
12.0	"	3.0	Stiff yellow sand clay
3.0	"	-8.0	Medium gray clay w/ small amount of sand
-8.0	"	-23.0	Medium blue sandy marl
	"		
	"		
	"		

48 Ft. Rt. C/L T. STA. 521+26

Elevation of Hub 25.8 Bent #2

25.8	to	18.0	Stiff brown sand clay
18.0	"	14.0	Stiff yellow clay
14.0	"	1.0	Medium yellow sand
1.0	"	-5.0	Stiff gray sand clay w/ thin layers of soft sandstone
	"		
-5.0	"	-19.0	Stiff blue marl w/ small amount of sand
	"		
	"		

10 Ft. Rt. C/L T. STA. 521+26

Elevation of Hub 24.2 Bent #2

24.2	to	18.0	Stiff yellow sand clay
18.0	"	16.5	N=20
16.5	"	14.0	Stiff yellow sand clay ← Bottom this
14.0	"	12.5	N=12
12.5	"	10.0	stiff Yellow and gray sand clay ← Bottom this
10.0	"	8.5	N=16
8.5	"	5.0	Stiff gray clay w/ small amount of sand
	"		

M & T F-1

(21)
(15)

_____ Ft. _____ T. STA. _____

Elevation of Hub _____

5.0	to	-3.0	Medium yellow sand clay
-3.0	"	-12.0	Medium gray sandy marl
-12.0	"	-36.0	Medium blue marl w/ layers of fine sand
	"		
	"		
	"		
	"		
	"		

48 Ft. Lt. C/L T. STA. 521+26

Elevation of Hub 21.1

21.1	to	15.0	Stiff brown silty sand clay
15.0	"	13.5	N=16 Bottom this
13.5	"	11.0	Stiff gray sand clay
11.0	"	9.5	N=11
9.5	"	7.0	Stiff gray sand clay
7.0	"	5.5	N=11 Bottom this
5.5	"	-4.0	Medium yellow sand clay
-4.0	"	-9.0	Medium gray silty sand

_____ Ft. _____ T. STA. _____

Elevation of Hub _____

-9.0	to	-24.0	Medium blue sandy marl
	"		
	"		
	"		
	"		
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	"		
	"		

M & T F-1

(16)

48 Ft. Lt. C/L T STA. 522+26

Elevation of Hub 29.1 Bent #3

29.1	to	19.0	Very stiff yellow sand clay
19.0	"	15.0	Stiff gray and pink clay
15.0	"	5.0	Stiff yellow sand clay
5.0	"	-1.0	Soft brown and gray clay
-1.0	"	-14.0	Stiff blue sand marl
	"		
	"		
	"		

20 Ft. Lt. T. STA. 522+26

Elevation of Hub 30.0

30.0	to	22.0	Stiff brown sand clay
22.0	"	20.0	Stiff red sand clay Bottom this
20.0	"	18.5	N=9
18.5	"	16.0	Medium red and gray clay Bottom this
16.0	"	14.5	N=8
14.5	"	12.0	Medium red sand clay Bottom this
12.0	"	10.5	N=5
10.5	"	-5.0	Soft gray marl

Ft. T. STA

Elevation of Hub

-5.0	to	-16.0	Medium blue sandy marl
	"		
	"		
	"		
	"		
	"		
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	"		

M & T F-1

(2)
(17)

48 Ft. Rt. T. STA. 522+26

Elevation of Hub 31.0

31.0	to	26.0	Stiff yellow clay
26.0	"	21.0	Stiff yellow sand clay
21.0	"	19.5	N=11
19.5	"	17.0	Stiff yellow clay
17.0	"	15.5	N=10 Bottom this
15.5	"	13.0	Stiff gray sand clay
13.0	"	11.5	N=9 Bottom this
11.5	"	5.0	Soft blue marl

Ft T. STA.

Elevation of Hub

5.0	to	1.0	Medium yellow sand clay
1.0	"	-19.0	Medium blue sandy marl
	"		
	"		
	"		
	"		
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10 Ft. Rt. C/L T. STA 522+26

Elevation of Hub 32.0

32.0	to	20.0	Very stiff yellow clay
20.0	"	10.0	Stiff yellow and gray clay
10.0	"	2.0	Medium gray sandy marl
2.0	"	-18.0	Medium blue marl w/ layers of sand
	"		
	"		
	"		
	"		

M & T F-1

12)
(18)

48 Ft. Rt. C/L T. STA. 523+26

Elevation of Hub 36.9 Bent #4

36.9	to	30.0	Stiff red clay w/ small amount of sand
30.0	"	27.0	Stiff yellow and gray sand clay
27.0	"	17.0	Stiff yellow sand clay
17.0	"	1.0	Yellow and brown sand
1.0	"	-18.0	Medium yellow sand clay
	"		
	"		
	"		

10 Ft Rt. C/L T. STA 523+26

Elevation of Hub 36.8

36.8	to	27.0	Very stiff yellow clay w/ small amount of sand
27.0	"	25.0	Gray sand clay
25.0	"	22.0	Medium yellow sand
22.0	"	20.5	N=18
20.5	"	18.0	Pink sand w/ small amount of pea gravel
18.0	"	16.5	N=18
16.5	"	14.0	Stiff brown and gray clay
14.0	"	12.5	N=12

Ft. T. STA.

Elevation of Hub

12.5	to	1.0	Medium yellow sand
1.0	"	-18.0	Medium yellow sand w/ small amount of clay
	"		
	"		
	"		
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	"		
	"		

M & T F-1

(X)
(19)

20 Ft. Lt. C/L T. STA. 523+26

Elevation of Hub 35.9

35.9	to	26.0	Very stiff red sand clay
26.0	"	16.0	Stiff brown and gray clay
16.0	"	8.0	Stiff yellow and gray sand clay
8.0	"	-19.0	Medium yellow sand clay w/ layers of sand
	"		
	"		
	"		
	"		

48 Ft. Lt. C/L T. STA. 523+26

Elevation of Hub 34.0

34.0	to	24.0	Very stiff red clay
24.0	"	20.0	Stiff pink sand clay
20.0	"	18.5	N=27 Bottom this
18.5	"	16.0	Medium gray sand clay
16.0	"	14.5	N=31 Bottom this
14.5	"	12.0	Medium gray clay
12.0	"	10.5	N=10 Bottom this
10.5	"	-1.0	Medium yellow sand clay w/ layers of sand

Ft. T. STA.

Elevation of Hub

-1.0	to	-16.0	Medium blue sand marl
	"		
	"		
	"		
	"		
	"		
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	"		

M & T F-1

021
(20)

48 Ft. Rt. C/L T. STA. 524+06

Elevation of Hub 41.1 Bent #5

41.1	to	36.0	Medium brown sand clay
36.0	"	28.0	Stiff yellow sand clay
28.0	"	25.0	Medium red sand clay
25.0	"	1.0	Medium yellow sand w/ small amount of clay
1.0	"	-15.0	Soft yellow clay w/ small amount of sand
	"		
	"		
	"		

10 Ft. Rt. C/L T. STA. 524+06

Elevation of Hub 38.6

38.6	to	37.0	Soft brown sand
37.0	"	28.0	Hard yellow sand clay
28.0	"	22.0	Very stiff sand clay Bottom this
22.0	"	20.5	N=41
20.5	"	18.0	Dense yellow sand
18.0	"	16.5	N=36 Bottom this
16.5	"	14.0	Wet yellow sand
14.0	"	12.5	N=16 Bottom this

Ft. T. STA.

Elevation of Hub

12.5	to	3.0	Loose wet yellow and gray sand
3.0	"	-12.0	Medium wet brown sand clay
-12.0	"	-32.0	Stiff blue sandy marl
	"		
	"		
	"		
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	"		

M & T F-1

(2)X
(21)

30 Ft Lt. C/L T. STA. 524+06

Elevation of Hub 36.0

36.0	to	34.0	Brown silty sand
34.0	"	26.0	Hard yellow sand clay
26.0	"	1.0	Dense yellow sand
1.0	"	-15.0	Wet yellow sand w/ layers of yellow clay
	"		
	"		
	"		
	"		

48 Ft. Lt. T. STA 524+06

Elevation of Hub 32.0

32.0	to	27.0	Very stiff yellow sand clay
27.0	"	22.0	Very stiff yellow sand South of this
22.0	"	20.5	N=19
20.5	"	18.0	Dense yellow sand
18.0	"	16.5	N= 22
16.5	"	14.0	Dense yellow sand
14.0	"	12.5	N=16 Bottom this
12.5	"	-3.0	Medium yellow sand

Ft. T. STA.

Elevation of Hub

-3.0	to	-13.0	Soft yellow sand clay
-13.0	"	-18.0	Soft gray sandy marl
	"		
	"		
	"		
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	"		
	"		

M & T F-1

(22)

48 Ft. Lt. C/L T. STA. 524+48

Elevation of Hub 32.0

32.0	to	30.0	Stiff brown silty clay
30.0	"	24.0	Very stiff yellow sand clay
24.0	"	2.0	Medium yellow sand w/ layers of clay
	"		
	"		
	"		
	"		
	"		

20 Ft. Lt. C/L T. STA. 524+48

Elevation of Hub 34.1

34.1	to	32.0	Stiff brown clay
32.0	"	28.0	Very stiff yellow sand clay
28.0	"	-4.0	Dense yellow sand w/ small amount of clay
	"		
	"		
	"		
	"		
	"		

10 Ft. Rt. C/L T. STA. 524+48

Elevation of Hub 38.0

38.0	to	36.0	Stiff brown sand clay
36.0	"	28.0	Very stiff yellow sand clay
28.0	"	8.0	Dense yellow sand
	"		
	"		
	"		
	"		
	"		

M & T F-1

(2)
(23)

48 Ft. Rt. C/L T. STA 524+48

Elevation of Hub 43.5

43.5	to	38.0	Stiff red and brown clay
38.0	"	22.0	Very stiff red sand clay
22.0	"	7.0	Dense yellow sand
	"		
	"		
	"		
	"		
	"		

C/L Ft. Rt. Lane T. STA. 726+00

Elevation of Hub 118.1 Culvert @ Sta. 726+00

118.1	to	115.6	Brown sandy muck
115.6	"	107.0	Medium gray sand
107.0	"	98.0	Stiff gray sandy marl
	"		
	"		
	"		
	"		
	"		

C/L Ft. Lt. Lane T. STA. 726+40

Elevation of Hub 119.7

119.7	to	115.7	Brown sandy muck
115.7	"	110.0	Gray sand
110.0	"	98.0	Stiff gray sandy marl
	"		
	"		
	"		
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	"		

M & T F-1

(12)
(24)

140 Ft. Lt. C/L T. STA. 533+25

Elevation of Hub 46.6 Culvert at Station 532+75

46.6	to	41.4	Brown muck
41.4	"	28.0	Medium gray and white sand
28.0	"	24.0	Stiff yellow sand clay
	"		
	"		
	"		
	"		
	"		

140 Ft. Rt. C/L T. STA. 532+00

Elevation of Hub 44.8

44.8	to	39.6	Brown muck
39.6	"	30.0	Medium gray sand
30.0	"	24.0	Medium yellow sand w/ small amount of clay
	"		
	"		
	"		
	"		
	"		

C/L Ft. T. STA. 512+90

Elevation of Hub 47.7 Culvert at Station 512+90

47.7	to	40.7	Brown sandy muck
40.7	"	26.0	Medium pink and gray sand w/ layer of marl
	"		
	"		
	"		
	"		
	"		
	"		

M & T F-1

(2X
(25)

160 Ft. Rt. C/L T. STA. 512+00

Elevation of Hub 45.0

45.0	to	40.5	Brown muck
40.5	"	35.0	Gray sandy marl
35.0	"	25.0	Medium gray sand w/ layer of marl
	"		
	"		
	"		
	"		
	"		

160 Ft. Lt. C/L T. STA. 513+70

Elevation of Hub 49.7

49.7	to	44.2	Brown muck
44.2	"	42.0	Fine gray sand
42.0	"	40.0	Pea Gravel
40.0	"	32.0	Fine gray sand w/ thin layers of clay
32.0	"	29.0	Stiff gray sandy marl
	"		
	"		
	"		

Ft. T. STA.

Elevation of Hub

	to		
	"		
	"		
	"		
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M & T F-1

(26) Fish River at Sta. 812+00

Ft. C/L Rt. Lane T. STA 813+00

Elevation of Hub 109.5

109.5	to	99.0	Very soft brown sandy muck (bottom of muck)
99.0	"	97.5	N=10
97.5	"	94.0	Medium white sand
94.0	"	92.5	N=12
92.5	"	89.0	Medium yellow sand w/ small amount of gravel
89.0	"	87.5	N=5
87.5	"	84.0	Medium yellow sand w/ small amount of gravel
84.0	"	82.5	N=6

Ft. T. STA

Elevation of Hub

82.5	to	79.0	Very soft gray and yellow silty sand
79.0	"	77.5	N=2 Bottom ↓
77.5	"	74.0	Stiff gray and yellow sandy marl
74.0	"	72.5	N=17
72.5	"	69.0	Dense fine gray sand w/ thin layers of yellow clay
69.0	"	67.5	N=12
67.5	"	64.0	← Bottom of this Medium fine gray sand

Ft. T. STA

Elevation of Hub

64.0	to	62.5	N=8
62.5	"	59.0	Fine yellow and gray sand in layers
59.0	"	57.5	N=10
57.5	"	49.0	Medium fine yellow and gray sand
	"		
	"		
	"		
	"		

M & T F-1

(2)
~~(6)~~ (31)

Ft C/L Lt. Lane T STA 812+00

Elevation of Hub 106.9

106.9	to	101.0	Black muck
101.0	"	97.0	White sand
97.0	"	95.5	N=20
~~95.5~~ 97.0	"	92.0	Stiff gray sandy marl.
92.0	"	90.5	N=10
~~90.5~~ 92.0	"	87.0	Stiff gray silty sand
87.0	"	85.5	N=11
~~85.5~~ 87.0	"	82.0	Dense yellow sand w/ small amount of clay

Ft T STA

Elevation of Hub

82.0	to	80.5	N=33
~~80.5~~ 82.0	"	77.0	Yellow sand and pea gravel
77.0	"	75.5	N=7
~~75.5~~ 77.0	"	72.0	Soft gray and yellow silty sand
72.0	"	70.5	N=3
~~70.5~~ 72.0	"	67.0	Soft gray silty sand
67.0	"	65.5	N=9
~~65.5~~ 67.0	"	62.0	Fine yellow silty sand

Ft T STA

Elevation of Hub

62.0	to	60.5	N=10
~~60.5~~ 62.0	"	57.0	Fine yellow silty sand
57.0	"	47.0	Dense yellow and gray silty sand
	"		
	"		
	"		
	"		
	"		

M & T F-1

(2)
(30)

Ft C/L Lt. Lane T STA 814+00

Elevation of Hub 105.1

105.1	to	100.0	Brown Muck
100.0	"	95.0	White sand w/ organic matter
95.0	"	93.5	N=5
93.5	"	90.0	Medium white sand w/ thin layers of clay
90.0	"	88.5	N=7
88.5	"	85.0	Dense brown silty sand
85.0	"	83.5	N=19
83.5	"	80.0	Dense gray sand w/ layers of yellow sand clay

Ft T STA

Elevation of Hub

80.0	to	78.5	N=14
78.5	"	75.0	Stiff gray silty sand w/ layers of yellow
	"		sand clay
75.0	"	73.5	N=25
73.5	"	70.0	Stiff yellow sandy clay
70.0	"	68.5	N=27
68.5	"	65.0	Dense gray and pink sand
65.0	"	63.5	N=48

Ft T STA

Elevation of Hub

63.5	to	60.0	Dense yellow and gray sand w/ small amount
	"		of clay
60.0	"	58.5	N=28
58.5	"	55.0	Dense yellow sand w/ layers of gray clay
	"		
	"		
	"		
	"		

M & T F-1

(2)
(27)

Ft C/L Rt. Lane T STA 815+00

Elevation of Hub 104.1

104.1	to	100.0	Black muck
100.0	"	94.0	Medium gray sand
94.0	"	92.5	N=17
92.5	"	89.0	Dense gray and yellow sand
89.0	"	87.5	N=9
87.5	"	84.0	Dense yellow sand w/ small amount of gravel
84.0	"	82.5	N=20
82.5	"	79.0	Dense yellow sand w/ small amount of gravel

Ft T STA

Elevation of Hub

79.0	to	77.5	N=24
77.5	"	74.0	Dense fine yellow and gray sand
74.0	"	72.5	N=10
72.5	"	69.0	Medium fine yellow and gray sand w/ thin layers
	"		of clay
69.0	"	67.5	N=4
67.5	"	64.0	Fine yellow and gray sand
64.0	"	62.5	N=9

Ft T STA

Elevation of Hub

62.5	to	59.0	Medium fine yellow sand
59.0	"	57.5	N=10
57.5	"	54.0	Medium fine yellow and gray sand
54.0	"	52.5	N=7
	"		
	"		
	"		
	"		

M & T F-1

(28)

Ft C/L Rt. Lane T STA 817+00

Elevation of Hub 103.8

103.8	to	99.0	Brown muck
99.0	"	94.0	White sand
94.0	"	92.5	N=7
92.5	"	89.0	Loose yellow sand w/ small amount of gravel
89.0	"	87.5	N=5
87.5	"	84.0	Dense yellow sand w/ small amount of gravel
84.0	"	82.5	N=16
82.5	"	79.0	Dense yellow sand w/ thin layers of clay

Ft T STA

Elevation of Hub

79.0	to	77.5	N=10
77.5	"	74.0	Medium fine yellow and gray sand w/ thin
	"		layers of gray clay
74.0	"	72.5	N=8
72.5	"	69.0	Stiff gray sand clay w/ layers of sand
69.0	"	67.5	N=9
67.5	"	64.0	Dense yellow sand w/ hard layers
64.0	"	62.5	N=79

Ft. T STA

Elevation of Hub

62.5	to	59.0	Dense yellow sand w/ thin hard layers
59.0	"	57.5	N=22
57.5	"	44.0	Dense yellow and gray sand w/ layers of
	"		stiff gray clay
	"		
	"		
	"		
	"		

M & T F-1

(29)

Ft C/L Lt. Lane T STA 816+00

Elevation of Hub 105.8

105.8	to	103.0	Black muck
103.0	"	101.0	Stiff gray clay
101.0	"	96.0	Medium yellow and gray sand
96.0	"	94.5	N=11
94.5	"	91.0	Stiff yellow and gray sand w/ layers of sand
	"		clay
91.0	"	89.5	N=10
89.5	"	86.0	Stiff gray sandy clay

Ft T STA

Elevation of Hub

86.0	to	84.5	N=22
84.5	"	81.0	Stiff gray clay w/ layers of sand
81.0	"	79.5	N=23
79.5	"	66.0	Yellow and gray silty sand
66.0	"	64.5	N=27
64.5	"	61.0	Stiff yellow and gray sand
61.0	"	59.5	N=27
59.5	"	56.0	Stiff gray sandy clay w/ layers of yellow

Ft T. STA

Elevation of Hub

	to		sand
	"		
	"		
	"		
	"		
	"		
	"		
	"		

H L NELSON
STATE HIGHWAY DIRECTOR
BLUE BARBER
ASSISTANT HIGHWAY DIRECTOR

STATE OF ALABAMA
HIGHWAY DEPARTMENT
MONTGOMERY, ALABAMA 36104

July 8, 1968

B/11

Plotted 8-69 J.F.

Foundation Borings
Baldwin Co

Mr. W. F. Land
Interstate Engineer
Bureau of Interstate
O F F I C E

Re: I-10-1(21) Baldwin County
Spanish Fort to Loxley

Dear Sir:

Attached are the results of foundation investigation for culverts on the above project.

This investigation was performed by the Fifth Division and this office concurs in their recommendations.

Yours very truly,

D. B. Flournoy, Engineer
of Materials and Tests

BY Edward Eiland
Edward Eiland, Assistant
Engineer of Materials
and Tests

EE:sre

cc: Mr. W. D. Crawford
Mr. B. E. Higgins
Mr. M. E. Ming
File

Attachments

STATE OF ALABAMA
HIGHWAY DEPARTMENT

FIFTH DIVISION
OFFICE OF DIVISION ENGINEER
P O BOX 7158
MOBILE, ALABAMA 36607

1701 Belt Line Highway, North
Telephone 471-3441

H L NELSON
STATE HIGHWAY DIRECTOR
BLUE BARBER
ASSISTANT HIGHWAY DIRECTOR

July 1,1968

Mr. D. B. Flournoy, Engineer
Bureau of Materials & Tests
State Highway Department
Montgomery, Alabama

Re: I-10-1(21)
Spanish Fort - Loxley
Baldwin County

Dear Sir:

Attached are several copies of results of soil borings taken at Culvert Sites shown on plans for the above numbered project.

Most of the culverts (with the exceptions shown below) are located in muck sections where muck will be removed and underwater backfill placed prior to construction of the culverts and will not require undercutting and backfilling for Culvert Excavation.

The following Culvert Sites will require undercutting and foundation backfill.

Station		Average depth undercut required
671+78	Lt. Lane	2.0 ft.
726+00	Rt. Lane	2.0 ft.
726+30	Lt. Lane	2.0 ft.
12+55	U.S. 90 connection	5.0 ft.

It is recommended that foundation backfill be set up under Item 108-D, Local Material for Bridge Culverts and Item 109-B, Local Material for Culverts and Minor Structures.

Yours very truly,

W. R. Glass
Acting Division Engineer

By T. G. Drinkard
T. G. Drinkard
Assistant Division Engineer

TGD/dr
Attach.
cc: File (2)

Mr. D.B. Flournoy, Engineer
Bureau of Materials and Tests
State Highway Department
Montgomery, Ala.

Re: I-10-1(99)21
Spanish Fort - Loxley
Baldwin County

Dear Sir:

Listed below are the results of Soundings made at the Culvert Sites on the above Project.

Station 441+30 275' Left Centerline

Elevation of Hub - 7.2

7.2	to 5.2	Very soft gray sandy muck and water
+5.2	to -2.8	Dense fine to medium grained sand
-2.8	to -6.8	Soft gray silty clay
-6.8	to -17.8	Loose gray silty sand with silty clay layers

Station 441+30 Centerline

Elevation of Hub - 4.0

4.0	to -3.0	Very soft gray silty clay, muck and water
-3.0	to -8.0	Dense medium grained sand
-8.0	to -21.0	Medium stiff gray silty clay and fine sand

Station 441+30 135' Right Centerline

Elevation of Hub - 4.3

4.3	to 1.3	Very soft black muck and water
1.3	to -1.7	Loose fine gray silty sand with small amount Organic Matter.
-1.7	to -17.7	Dense gray medium grained silty sand
-17.7	to -20.7	Medium stiff gray silty clay

Station 512+80 Centerline

Elevation of Hub - 48.3

48.3	to 46.3	Very loose brown silty sand with small amount Organic Matter
46.3	to 44.3	Very soft black sandy muck
44.3	to 33.3	Dense medium grained sand with soft clay layer
33.3	to 26.3	Soft gray silty marine clay
26.3	to 23.3	Stiff blue marine clay with few small gravel

Station 512+80 240' Right Centerline

Elevation of Hub - 44.6

44.6	to 42.6	Soft brown sand clay and muck
42.6	to 40.6	Medium dense brown sand clay
40.6	to 30.6	Loose gray medium to fine silty sand
30.6	to 19.6	Soft gray silty marine clay

Station 512+80 200' Left Centerline

Elevation of Hub - 50.5

50.5	to 46.5	Soft black muck
46.5	to 41.5	Loose gray silty sand with silty clay layers
41.5	to 25.5	Medium stiff gray silty marine clay

Station 532+60 160' Right Centerline

Elevation of Hub - 44.6

44.6	to 38.6	Very soft black muck
38.6	to 32.6	Loose fine gray silty sand
32.6	to 19.6	Medium dense gray and brown sand

Station 532+60 10' Left Centerline

Elevation of Hub - 45.3

45.3	to 39.3	Very soft black muck
39.3	to 33.3	Loose fine gray silty sand
33.3	to 28.3	Dense brown sand with few pea gravel
28.3	to 20.3	Medium dense tan and yellow sand clay

Station 532+60 155' Left Centerline

Elevation of Hub - 46.2

46.2	to 40.2	Very soft black muck
40.2	to 36.2	Loose gray silty sand
36.2	to 21.2	Dense coarse to medium grained sand

Station 654+12 85' Right Centerline Left Lane

Elevation of Hub - 143.1

143.1	to 136.1	Medium dense brown sand clay
136.1	to 129.1	Dense tan fine silty sand
129.1	to 124.1	Dense tan medium to coarse sand with small amount clay layers
124.1	to 118.1	Soft pink clay

Station 654+12 Centerline Left Lane

Elevation of Hub - 140.0

140.0	to	131.0	Very soft black muck
131.0	to	124.0	Dense tan silty sand
124.0	to	115.0	Dense yellow and brown sand with clay layers

Station 654+12 90' Left Centerline Left Lane

Elevation of Hub - 140.3

140.3	to	133.3	Very soft black muck
133.3	to	131.3	Soft gray sand clay
131.3	to	128.3	Medium dense brown sand clay

Station 654+90 Centerline Right Lane

Elevation of Hub - 138.0

138.0	to	131.0	Very soft black muck
131.0	to	124.0	Dense gray silty sand
124.0	to	113.0	Medium dense gray and yellow sand clay

Station 654+90 90' Right Centerline Right Lane

Elevation of Hub - 137.0

137.0	to	131.0	Very soft black muck
131.0	to	129.0	Dense gray silty sand
129.0	to	125.0	Dense tan sand

Station 671+78 Centerline Left Lane

Elevation of Hub - 148.0

148.0	to	146.5	Black loamy top soil
146.5	to	143.0	Medium stiff brown wet silty clay
143.0	to	138.0	Medium dense tan sand clay
138.0	to	123.0	Dense red and tan medium grained sand

Station 671+78 90' Right Centerline Left Lane

Elevation of Hub - 146.7

146.7	to	144.7	Black loamy top soil
144.7	to	140.7	Medium stiff brown silty clay
140.7	to	136.7	Medium dense gray and red sand clay
136.7	to	121.7	Dense red and tan medium grained sand

Station 671+78 80' Left Centerline Left Lane

Elevation of Hub - 149.0

149.0	to	148.0	Black loamy top soil
148.0	to	143.0	Medium stiff brown silty clay
143.0	to	124.0	Dense tan grained snad

Station 673+70 Centerline Right Lane

Elevation of Hub 144.8

144.8	to 137.8	Very soft black muck and silt
137.8	to 132.8	Medium dense gray sand clay
132.8	to 127.8	Loose yellow coarse grained sand
127.8	to 119.8	Dense tan coarse grained sand

Station 673+70 125' Right Centerline Right Lane

Elevation of Hub - 142.8

142.8	to 134.8	Very soft black muck
134.8	to 130.8	Medium dense gray sand clay
130.8	to 125.8	Loose tan medium grained sand
125.8	to 117.8	Dense tan medium to coarse sand

Station 673+70 110' Left Centerline Right Lane

Elevation of Hub - 146.3

146.3	to 136.3	Very soft black muck
136.3	to 132.3	Medium dense gray sand clay
132.3	to 121.3	Loose tan med grained sand

Station 676+65 110' Left Centerline Right Lane

Elevation of Hub - 141.7

141.7	to 132.7	Very Soft black muck
132.7	to 120.7	Dense gray and tan medium grained sand
120.7	to 116.7	Soft yellow silty clay

Station 676+65 Centerline Right Lane

Elevation of Hub - 141.2

141.2	to 131.2	Very soft black muck
131.2	to 122.2	Dense gray and tan medium grained sand
122.2	to 116.2	Soft yellow silty clay

Station 676+65 130' Right Centerline Right Lane

Elevation of Hub - 141.1

141.1	to 131.1	Very soft black muck
131.1	to 129.1	Dense gray fine to medium grained sand

Station 679+40 130' Right Centerline Left Lane

Elevation of Hub - 143.8

143.8	to 132.8	Very soft black muck
132.8	to 12118	Dense gray medium grained sand
121.8	to 118.8	Soft yellow silty clay

Station 679+40 130' Left Centerline Left Lane

Elevation of Hub - 146.0

146.0	to 135.0	Very soft black muck
135.0	to 132.0	Dense gray and tan medium grained sand

Station 679+40 Centerline Left Lane

Elevation of Hub - 144.9

144.9	to 134.9	Very soft black muck
134.9	to 132.9	Dense gray medium grained sand

Station 726+00 Centerline Right Lane

Elevation of Hub - 118.3

118.3	to 116.3	Soft black muck
116.3	to 110.3	Dense fine white sand
110.3	to 108.3	Dense coarse tan and yellow sand with pea gravel

Station 726+00 120' Right Centerline Right Lane

Elevation of Hub - 117.6

117.6	to 114.6	Soft black muck
114.6	to 111.6	Dense Fine white sand

Station 726+00 120' Left Centerline Right Lane

Elevation of Hub - 119.0

119.0	to 116.0	Soft black sandy muck
116.0	to 111.0	Dense fine gray sand

Station 726+30 115' Right Centerline Left Lane

Elevation of Hub - 119.9

119.9	to 116.9	Soft black muck
116.9	to 114.9	Soft gray silty clay
114.9	to 112.9	Medium dense gray sand clay
112.9	to 110.9	Dense fine white sand

Station 726+30 Centerline Left Lane

Elevation of Hub - 120.2

120.2	to 117.2	Soft black muck
117.2	to 115.2	Loose tan sand with traces of Organtic Matter
115.2	to 113.2	Dense fine white sand
113.2	to 110.2	Dense coarse white sand with pea gravel

Station 726+30 115' Left Centerline Left Lane

Elevation of Hub - 120.8

120.8	to 116.8	Soft black muck
116.8	to 115.8	Soft gray silty clay
115.8	to 112.8	Medium stiff gray silty clay

Station 773+00 140' Left Centerline Right Lane

Elevation of Hub - 132.7

132.7	to 125.7	Soft wet gray silty clay and organic matter
125.7	to 118.7	Medium dense fine red sand clay
118.7	to 107.7	Dense tan fine to medium grained sand

Station 773+00 Centerline Right Lane

Elevation of Hub - 133.6

133.6	to 126.2	Soft wet silty clay and Organic Matter
126.6	to 124.6	Medium dense gray sand clay
124.6	to 108.6	Dense fine tan sand

Station 773+00 130' Right Centerline Right Lane

Elevation fo Hub - 136.2

136.2	to 129.2	Medium dense tan sand clay, small layer sand stone
129.2	to 111.2	Medium dense tan and red medium grained sand

Station 776+12 Centerline Left Lane

Elevation of Hub - 130.1

130.1	to 123.1	Soft silt, clay and Organic Matter
123.1	to 115.1	Medium dense fine tan sand clay
115.1	to 105.1	Medium dense fine tan sand

Station 776+12 115' Right Centerline Left Lane

Elevation of Hub - 130.9

130.9	to 123.9	Soft gray silty clay and Organic matter
123.9	to 116.9	Loose fine tan silty sand
116.9	to 105.9	Dense fine tan sand

Station 776+12 100' Left Centerline Left Lane

Elevation of Hub - 129.5

129.5	to 122.5	Soft gray silty clay and Organic Matter
122.5	to 104.5	Medium dense fine tan silty sand

Station 776+50 180' Left Centerline Left Lane (Servic Road)

Elevation of Hub - 129.4

129.4	to 122.4	Soft black silty clay and Organic Matter
122.4	to 104.4	Medium dense tan and yellow sand

Station 776+50 — 230' Left Centerline Left Lane (Servic Road)

Elevation of Hub - 129.2

129.2	to	123.2	Soft black silty clay and Organic Matter
123.2	to	115.2	Loose fine gray silty sand
115.2	to	104.2	Medium dense tan sand

Station 12+55 — 45' Left (US 90 Connection)

Elevation of Hub - 3.0

3.0	to	-17.0	Soft gray silty clay and sand
-17.0	to	-22.0	Soft gray silty clay

Station 12+45 — 50' Right (US 90 Connection)

Elevation of Hub - 4.8

4.8	to	1.8	Loose coarse tan sand
1.8	to	-2.2	Very soft gray silty clay
-2.2	to	-20.2	Medium dense gray silty sand

Yours very truly,

Assistant Division Engineer

SUPERSTRUCTURE

FLOOR CROWN: 4" PARABOLIC SUPERELEVATION: — VERT CLEAR: Open

SIDEWALKS: EXP JT MATL: 1" OPEN DRAINS: 3" ϕ

SPAN NO	FLOOR DEPTH AND MATL	WEAR SURF DEPTH AND MATL	CURBS HEIGHT AND MATL	RAILING TYPE	RAILING NO	RAILING MATL	RAILING HT	RAILING POSTS	CLEARANCE BETW CURBS	CLEARANCE BETW RAILS
1-16	6" Conc.		11" Conc	F	1	Conc.	2'-3"	Conc	39'-3"	40'-9"

STRINGERS - BEAMS OR GIRDERS

SPAN NO	MATL	SPAN C C BEARS	NO OF BEAMS	SPACING	SECTION OUTS STRING	SECTION INS STRING	TYPE EXP	STD DWG	DESIGN RATING
1-16	RCDG		6	7'-0"	16 3/4" X	29"	Slide	C-3934 B-36	HS20-44

TRUSSES

WHEN MADE YIELD POINT: FABRICATED BY:

DESIGN RATING: FLOOR: TRUSSES:

SPAN NO	MATL - KIND - TYPE - CONNS	SPAN C C BEARS	NO AND LGTH OF PANELS	DIST C C TRUSSES	DEPTH AT CENTER	TYPE EXP	STD DWG

SUBSTRUCTURE

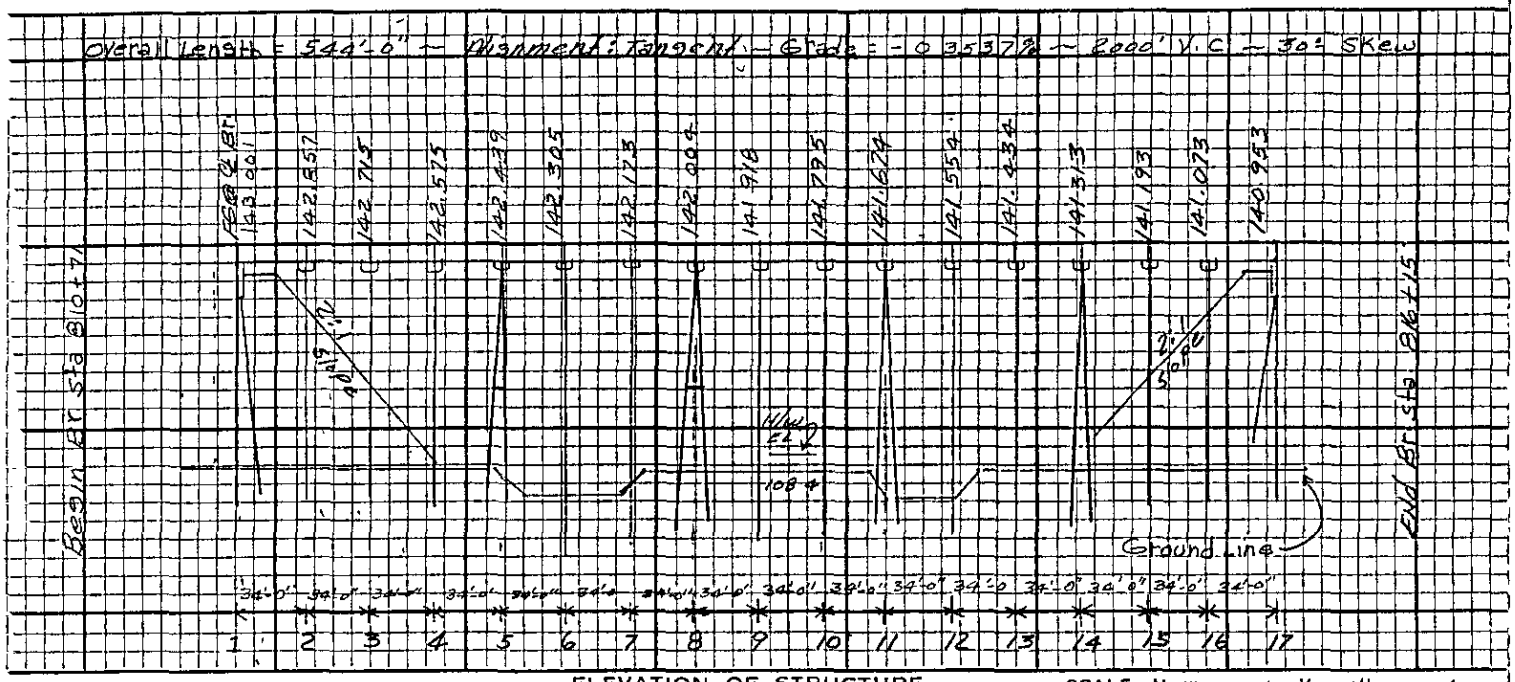
BENT NO		TYPE AND MATL	HT GRADE TO TOP CAP	HT TOP CAP TO BOTT FOOT	NO AND LGTH PILES	FOUNDATION MATL	DIST GRADE TO GROUND	Std DWG
REAR ABUT	1	6' RC & Steel Pile	2'-7"					PA 3900-B-30
FWD	17	" " "	"					"
PIER OR BENT	2	RC & Steel Pile (6 Pile)	"					PB 3934-30
	3	" " "	"					"
	4	" " "	"					"
	5	RC & Steel Pile (Tower)	"					Br Sh. # 3
	6	RC & Steel Pile (6 Pile)	"					
	7	" " " "	"					
	8	RC & Steel Pile (Tower)	"					
	9	RC & Steel Pile (6 Pile)	"					
	10	" " " "	"					
	11	RC & Steel Pile (Tower)	"					
	12	RC & Steel Pile (6 Pile)	"					
	13	" " " "	"					
	14	RC & Steel Pile (Tower)	"					
	15	RC & Steel Pile (6 Pile)	"					
	16	" " " "	"					

DL 7.23

BIN 10170(-1)

BRIDGE NO	COUNTY	FED RT	U S HWY	PROJECT NO	TYPE	STRENGTH H10	STRENGTH H10	STRENGTH H15	STRENGTH H20	ROADWAY -18	ROADWAY 18 19	ROADWAY 20 21	ROADWAY 22 24	ROADWAY 24+	CLEARANCE 13	CLEARANCE 12 14	CLEARANCE 14+	CLEARANCE OPEN
10 02 13.3 A	Baldwin	—	—	I-10-1(21)35	S.C.													

FORM BI 5 STATE OF ALABAMA HIGHWAY DEPARTMENT — TRUSS - SLAB - BEAM AND GIRDER BRIDGES — DATE 7-20-71



ELEVATION OF STRUCTURE

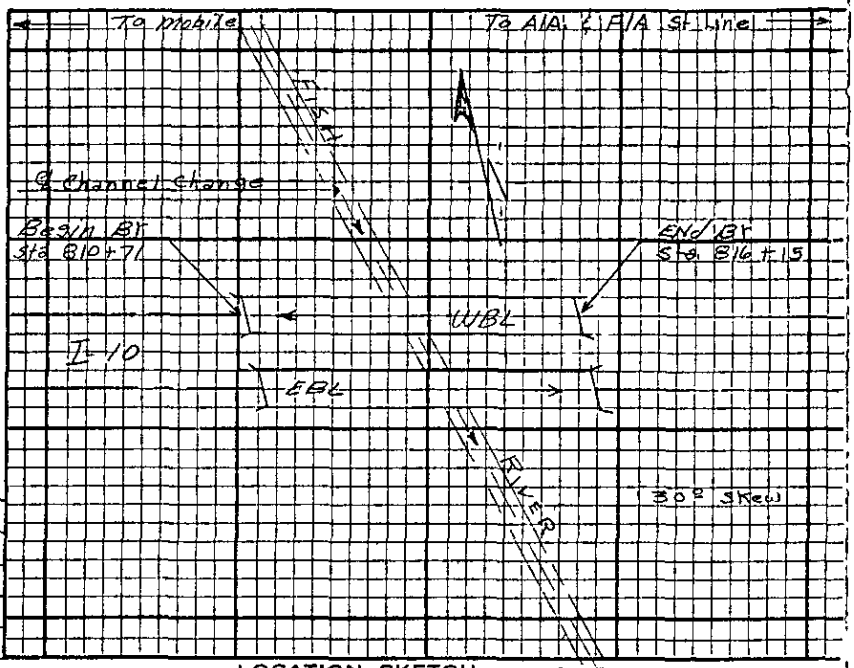
SCALE H- 1" = 100' V- 1" = 30'

GENERAL

NAME OF BRIDGE:		MIN DESIGN RATING: HS20-44	FOR:
OVER: STREAM R R OR HIGHWAY:	Fish River	OPERATING RATING:	
WHEN BUILT? 1970	BY: State	APPROACH PAVT TYPE: Bit Conc.	
MAINT BY State	OVERALL LGTH FLOOR: 544'-0"	PAVT WIDTH: 2@24'	SHOULDER WIDTH: 4@'
NO AND LENGTH OF SPANS: 16@34'-0"		SIGHT DIST VERT	HORIZ
		ORIG COST:	

REMARKS: W.B.L

PHOTOGRAPH



WATERWAY DATA

DIST LOW BRIDGE TO HW:	GRADE TO LOW BRIDGE:
DRAINAGE AREA: = 11.58 mi.	
CHARACTER AND CONSTANT: Q50 = 4500 cfs — Vm 50 = 3.56 ft/sec	
CHANNEL DEPTH:	WIDTH BETW BANKS:
NATURE OF BOTTOM: Opening Provided 1264 Sq. Ft.	
CONDITION OF BANKS:	
DESCRIP OF PROTECTIVE WORKS	
DOES ALL FLOOD PASS STRUCTURE?	IF NOT, WHERE?

LOCATION SKETCH SCALE 1" = 300'

REMARKS

STATE OF ALABAMA
HIGHWAY DEPARTMENT
MONTGOMERY, ALABAMA 36104

H L NELSON
STATE HIGHWAY DIRECTOR
BLUE BARBER
ASSISTANT HIGHWAY DIRECTOR

September 19, 1968

Plotted 8-69
JF

Mr. B. E. Higgins
Bridge Engineer
O F F I C E

Re: Project I-10-1(21)35
Baldwin County
Foundation Investigation

Dear Sir:

Attached are the results of bridge foundation investigation conducted on the above project for bridges and culverts.

The borings indicate that adequate steel pile penetration can be obtained.

We recommend that the mucky material be removed at the culvert sites and replaced by foundation backfill.

Yours very truly,

D. B. Flournoy, Engineer
of Materials and Tests

By: Edward Eiland
Edward Eiland, Assistant Engineer
of Materials and Tests

WBH/sap
ccs:
Mr. W. R. Glass
Mr. W. F. Land
Mr. W. D. Bill, Resident Engineer
BPR (send to Mr. Higgins)
Mr. J. M. Ragland
Project File
File

Attachment

STATE HIGHWAY DEPARTMENT OF ALABAMA
BUREAU OF MATERIALS & TESTS
DIVISION OF MATERIALS
MONTGOMERY 4, ALABAMA

Form M & T F-1

September 18, 1968

Mr J. F. Tribble, Materials Engineer
Bureau of Materials & Research
State Highway Department
OFFICE

I-10-1(21)35
Underpass Alabama 181
Station 620+79
Re: Baldwin County

Dear Sir

Listed below are the results of soundings made at the above location.

15 Ft Rt. C/L Survey T. STA. 28+51

Elevation of Hub. 196.5

196.5	to	195.0	Fill Material
195.0	"	187.5	Medium gray sandy clay
187.5	"	180.0	Medium light gray sandy marl
180.0	"	179.9	Thin layer of pyrite
179.9	"	175.0	Dense red and brown silty sand
	"		
	"		
	"		

15 Ft Lt. C/L Survey T. STA. 28+51

Elevation of Hub 196.4

196.4	to	191.0	Stiff brown silty sandy clay
191.0	"	187.0	Dense gray sandy clay
187.0	"	186.0	Medium light gray and silty sandy clay
186.0	"	181.4	Dense brown and red silty sand
181.4	"	174.9	Dense red and pink silty sand
	"		
	"		
	"		

40 Ft Lt. C/L Survey T. STA. 28+51

Elevation of Hub 195.5

195.5	to	194.0	Medium red silty sandy clay
194.0	"	190.0	Medium gray sandy clay
190.0	"	185.5	Dense gray sandy clay
185.5	"	179.0	Dense brown silty sand w/ thin layers of pyrite.
	"		
179.0	"	174.0	Dense red and pink sand
	"		
	"		

40 Ft. Rt. C/L Survey T. STA. 28+51

Elevation of Hub 195.9

195.9	to	194.0	Stiff red silty sand and clay
194.0	"	190.0	Medium gray sandy clay
190.0	"	182.9	Dense light gray sandy clay
182.9	"	174.4	Dense red and pink sand
	"		
	"		
	"		
	"		

15 Ft Lt. C/L Survey T STA 29+18 Bent #2

Elevation of Hub 196.8

196.8	to	192.0	Medium brown silty sand
192.0	"	189.0	Medium brown silty sandy clay
189.0	"	185.0	Stiff red silty sandy clay
185.0	"	183.5	N=17
183.5	"	180.0	Dense red and pink sand
180.0	"	178.5	N=15
178.5	"	175.0	Dense red and pink sand
175.0	"	173.5	N=19

M & T F-1

(3)

Ft. T STA

Elevation of Hub

173.5	to	145.8	Dense red and pink sand
	"		
	"		
	"		
	"		
	"		
	"		
	"		

15 Ft Rt. C/L Survey T STA 29+18

Elevation of Hub 197.0

197.0	to	196.0	Medium red silty sand
196.0	"	189.0	Medium gray silty sandy clay
189.0	"	187.0	Stiff red silty clay
187.0	"	185.0	Dense red silty sandy clay
185.0	"	173.0	Dense red and pink silty sand
173.0	"	146.0	Dense white and red/silty sand
	"		
	"		

40 Ft Rt. C/L T STA 29+18

Elevation of Hub 196.4

196.4	to	194.0	Medium red sand clay
194.0	"	190.0	Stiff gray sandy clay
190.0	"	188.0	Stiff yellow sand clay
188.0	"	186.0	Stiff red clay w/ small amount of sand
186.0	"	181.0	Stiff red clay w/ small amount of gravel
181.0	"	178.0	Stiff red sand clay
178.0	"	163.0	Medium red sand w/ small amount of gravel
163.0	"	162.7	Soft red sandstone

_____ Ft. _____ T. STA _____

Elevation of Hub _____

162.7	to	146.0	Medium yellow sand
	"		
	"		
	"		
	"		
	"		
	"		
	"		

40 Ft. Lt. C/L Survey T. STA 29+18

Elevation of Hub 195.9

195.9	to	191.0	Medium gray sandy clay
191.0	"	189.0	Stiff brown clay
189.0	"	180.0	Stiff red clay w/ small amount of gravel
180.0	"	173.0	Stiff red sand clay
173.0	"	160.0	Medium yellow and red sand
160.0	"	145.0	Stiff wet red sand w/ layers of sand clay
	"		
	"		

40 Ft Lt. C/L Survey T STA 30+00

Elevation of Hub 196.9 Bent No. 3

196.9	to	195.0	Stiff brown sand clay
195.0	"	192.0	Stiff yellow clay w/ small amount of sand
192.0	"	180.0	Stiff red clay w/ small amount of sand
180.0	"	167.0	Stiff red sand
167.0	"	147.0	Medium yellow sand
	"		
	"		
	"		

M & T F-1

(20)
(5)

15 Ft. Rt. C/L Survey STA 30+00

Elevation of Hub 197.6

197.6	to	196.0	Dense red silty sand
196.0	"	192.6	Medium gray sandy clay
192.6	"	191.0	Stiff red silty clay
191.0	"	185.0	Dense red silty sand
185.0	"	183.5	N=22
183.5	"	180.0	Dense red and pink sand
180.0	"	178.5	N=16
178.5	"	175.0	Dense white and pink sand

185.0 Bottom of Hole red silty sand

Ft T. STA.

Elevation of Hub

175.0	to	173.5	N=18
173.5	"	142.6	Dense white and pink sand
	"		
	"		
	"		
	"		
	"		
	"		

15 Ft Lt. C/L Survey STA 30+00

Elevation of Hub 197.6

197.6	to	191.0	Stiff brown silty clay
191.0	"	180.0	Stiff red silty sandy clay
180.0	"	177.6	Dense red silty sand
177.6	"	156.0	Dense red and pink silty sand
156.0	"	146.6	Dense pink and white sand
	"		
	"		
	"		

M & T F-1

(2)
(6)

40 Ft. Rt. C/L Survey STA 30+00

Elevation of Hub 197.0

197.0	to	192.0	Stiff brown and red silty clay
192.0	"	180.0	Hard red silty clay
180.0	"	150.0	Dense red sand
150.0	"	146.0	Dense white and pink sand
	"		
	"		
	"		
	"		

15 Ft Rt. C/L Survey STA 30+82

Elevation of Hub 198.4 Bent # 4

198.4	to	198.0	Stiff brown silty clay
198.0	"	197.0	Stiff red silty clay
197.0	"	193.0	Stiff brown silty sand clay
193.0	"	184.0	Stiff red silty sand clay
184.0	"	144.4	Dense red and white silty sand
	"		
	"		
	"		

40 Ft Rt. C/L Survey STA 30+82

Elevation of Hub 197.8

197.8	to	195.0	Medium brown and red silty clay
195.0	"	191.0	Stiff brown and yellow clay
191.0	"	186.0	Hard red silty clay
186.0	"	184.5	N=31 184.5 bottom of hard red silty clay
184.5	"	181.0	Dense white and pink sand
181.0	"	179.5	N=20
179.5	"	176.0	Dense white and pink sand
176.0	"	174.5	N=19

_____ Ft. _____ T. STA _____

Elevation of Hub _____

174.5	to	146.0	Dense white and pink sand w/ thin layers
"			of sandrock
146.0	"	145.8	Very dense white and pink sand
"			
"			
"			
"			
"			

15 Ft Lt. C/L Survey T. STA 30+82

Elevation of Hub 198.3

198.3	to	196.9	Medium red sand clay
196.0	"	191.0	Stiff yellow clay
191.0	"	181.0	Stiff red clay w/ small amount of sand
181.0	"	177.0	Stiff red sand clay
177.0	"	168.0	Medium red sand w/ small amount of gravel
168.0	"	148.0	Dense fine white sand
"			
"			

40 Ft Lt. C/L Survey T STA 30+82

Elevation of Hub 197.2

197.2	to	191.0	Stiff yellow clay
191.0	"	179.0	Stiff red clay w/ small amount of sand
179.0	"	162.0	Medium brown sand
162.0	"	156.0	Medium yellow sand w/ small amount pea gravel
156.0	"	149.0	Dense fine white sand
"			
"			
"			

M & T F-1

(X)
(8)

40 Ft. Lt. C/L Survey T. STA 31+49

Elevation of Hub 198.1 Abut. # 5

198.1	to	192.0	Stiff yellow clay
192.0	"	183.0	Stiff red clay w/ small amount of sand
183.0	"	178.0	Stiff red sand clay
178.0	"	173.0	Medium red sand
	"		
	"		
	"		
	"		

15 Ft. Lt. C/L Survey T. STA 31+49

Elevation of Hub 199.1

199.1	to	196.0	Stiff red sand clay
196.0	"	193.0	Stiff yellow sand clay
193.0	"	181.0	Stiff red clay w/ small amount of sand
181.0	"	174.0	Dense red sand
	"		
	"		
	"		
	"		

15 Ft Rt. C/L Survey T. STA 31+49

Elevation of Hub 199.0

199.0	to	198.0	Medium brown silty sand
198.0	"	196.0	Stiff red silty clay
196.0	"	189.0	Dense red silty sand
189.0	"	185.0	Dense brown silty sand
185.0	"	177.5	Dense red and pink sand
	"		
	"		
	"		

M & T F-1

(2)
(9)

40 Ft. Rt. C/L Survey T. STA. 31+49

Elevation of Hub 198.6

198.6	to	195.6	Dense red silty sand
195.6	"	193.0	Dense brown silty sand
193.0	"	192.0	Very Dense brown silty sand
192.0	"	177.1	Dense red and pink silty sand
	"		
	"		
	"		
	"		

Ft. T STA.

Elevation of Hub

	to		
	"		
	"		
	"		
	"		
	"		
	"		
	"		

Ft T STA

Elevation of Hub

	to		
	"		
	"		
	"		
	"		
	"		
	"		
	"		

M & T F-1

(22) (10)

BRIDGE - 3 MILE CREEK

Culvert At Station 850+00

C/L Ft. Rt. Lane T. STA 850+00

Elevation of Hub 108.1 Culvert

108.1	to	104.7	Sandy muck
104.7	"	93.0	White fine sand
93.0	"	87.0	Stiff gray sandy clay
	"		
	"		
	"		
	"		
	"		

C/L Ft. Lt. Lane T. STA 850+00

Elevation of Hub 108.5

108.5	to	105.8	Muck
105.8	"	100.5	Gray sand w/ thin layers of clay
100.5	"	96.0	Fine yellow sand clay
96.0	"	94.0	Pea gravel w/ fine sand
94.6	"	87.0	Fine yellow sand w/ thin layers of clay
	"		
	"		
	"		

C/L Ft Rt. Lane T. STA 655+32

Elevation of Hub 138.1 Culvert at Sta. 655+00

138.1	to	134.0	Brown muck
134.0	"	129.0	Gray sand
129.0	"	128.0	Pea Gravel
128.0	"	117.0	Stiff gray sandy marl
	"		
	"		
	"		
	"		

M & T F-1

(8)
(11)

C/L Ft. Rt. Lane T. STA 655+00

Elevation of Hub 138.1

138.1	to	133.0	Brown muck
133.0	"	129.0	Gray sandy clay
129.0	"	125.0	Stiff gray sandy marl
	"		
	"		
	"		
	"		
	"		

110 Ft. Lt. T. STA 441+30

Culvert at Sta. 441+30

Elevation of Hub 5.2

5.2.	to	1.4	Muck
1.4	"	-1.0	Gray sand
-1.0	"	-5.0	Stiff yellow sand
-5.0	"	-6.0	Stiff gray marl
-6.0	"	-16.0	Stiff gray sandy marl
	"		
	"		
	"		

320 Ft. Lt. T. STA 441+30

Culvert at Sta. 441+30

Elevation of Hub 8.2

8.2	to	4.2	Brown muck
4.2	"	-1.0	Gray sand
-1.0	"	-7.0	Medium yellow sand
-7.0	"	-15.0	Medium gray sandy marl
	"		
	"		
	"		
	"		

M & T F-1

(2)
(12)

140 Ft. Rt. T. STA 441+30

Elevation of Hub 4.9

4.9	to	1.6	Muck
1.6	"	-13.0	Medium gray sand
-13.0	"	-17.0	Stiff gray sand marl
	"		
	"		
	"		
	"		
	"		

345 Ft. Rt. T. STA 441+30

Elevation of Hub 9.5

9.5	to	7.7	Muck
7.7	"	-5.0	Brown sandy clay
-5.0	"	-12.0	Medium gray sand w/ layers of sand clay
	"		
	"		
	"		
	"		
	"		

Abut. # 1 48 Ft Rt. C/L T. STA 520+44

Underpass US-98 at Sta. 431+00
Baldwin County

Elevation of Hub 24.1

24.1	to	20.0	Yellow Sand
20.0	"	16.0	Stiff brown sand clay w/ small amount of gravel
16.0	"	11.0	Stiff gray sandy clay
11.0	"	4.0	Medium gray sand
4.0	"	1.0	Soft yellow clay w/ small amount of sand
	"		
	"		
	"		

M & T F-1

(8)
(13)

10 Ft. Rt. T. STA. 520+44

Elevation of Hub 23.2

23.2	to	20.0	Brown clay
20.0	"	15.0	Stiff yellow and gray sand clay
15.0	"	6.0	Medium brown and gray clay w/ small amount
	"		of sand
6.0	"	2.0	Soft gray clay
	"		
	"		
	"		

20 Ft Lt. C/L T. STA. 520+44

Elevation of Hub 24.4

24.4	to	20.0	Red sand clay
20.0	"	10.0	Gray sand clay (Stiff)
10.0	"	4.0	Medium gray sand
4.0	"	1.0	Soft yellow clay
	"		
	"		
	"		
	"		

48 Ft Lt. C/L T. STA 520+44

Elevation of Hub 24.8

24.8	to	21.0	Yellow sand clay
21.0	"	11.0	Stiff brown sand clay
11.0	"	5.0	Stiff gray sand w/ layers of gray clay
5.0	"	0.0	Stiff yellow clay
	"		
	"		
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(2)
(14)

20 Ft. Lt. C/L T. STA. 521+26

Elevation of Hub 22.6

22.6	to	18.0	Stiff brown sand clay
18.0	"	12.0	Stiff red sand clay
12.0	"	3.0	Stiff yellow sand clay
3.0	"	-8.0	Medium gray clay w/ small amount of sand
-8.0	"	-23.0	Medium blue sandy marl
	"		
	"		
	"		

48 Ft. Rt. C/L T. STA. 521+26

Elevation of Hub 25.8 Bent #2

25.8	to	18.0	Stiff brown sand clay
18.0	"	14.0	Stiff yellow clay
14.0	"	1.0	Medium yellow sand
1.0	"	-5.0	Stiff gray sand clay w/ thin layers of soft sandstone
	"		
-5.0	"	-19.0	Stiff blue marl w/ small amount of sand
	"		
	"		

10 Ft. Rt. C/L T. STA. 521+26

Elevation of Hub 24.2 Bent #2

24.2	to	18.0	Stiff yellow sand clay
18.0	"	16.5	N=20
16.5	"	14.0	Stiff yellow sand clay ← Bottom this
14.0	"	12.5	N=12
12.5	"	10.0	stiff Yellow and gray sand clay ← Bottom this
10.0	"	8.5	N=16
8.5	"	5.0	Stiff gray clay w/ small amount of sand
	"		

M & T F-1

(21)
(15)

_____ Ft. _____ T. STA. _____

Elevation of Hub _____

5.0	to	-3.0	Medium yellow sand clay
-3.0	"	-12.0	Medium gray sandy marl
-12.0	"	-36.0	Medium blue marl w/ layers of fine sand
	"		
	"		
	"		
	"		
	"		

48 Ft. Lt. C/L T. STA. 521+26

Elevation of Hub 21.1

21.1	to	15.0	Stiff brown silty sand clay
15.0	"	13.5	N=16 Bottom this
13.5	"	11.0	Stiff gray sand clay
11.0	"	9.5	N=11
9.5	"	7.0	Stiff gray sand clay
7.0	"	5.5	N=11 Bottom this
5.5	"	-4.0	Medium yellow sand clay
-4.0	"	-9.0	Medium gray silty sand

_____ Ft. _____ T. STA. _____

Elevation of Hub _____

-9.0	to	-24.0	Medium blue sandy marl
	"		
	"		
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	"		

M & T F-1

(16)

48 Ft. Lt. C/L T STA. 522+26

Elevation of Hub 29.1 Bent #3

29.1	to	19.0	Very stiff yellow sand clay
19.0	"	15.0	Stiff gray and pink clay
15.0	"	5.0	Stiff yellow sand clay
5.0	"	-1.0	Soft brown and gray clay
-1.0	"	-14.0	Stiff blue sand marl
	"		
	"		
	"		

20 Ft. Lt. T. STA. 522+26

Elevation of Hub 30.0

30.0	to	22.0	Stiff brown sand clay
22.0	"	20.0	Stiff red sand clay Bottom this
20.0	"	18.5	N=9
18.5	"	16.0	Medium red and gray clay Bottom this
16.0	"	14.5	N=8
14.5	"	12.0	Medium red sand clay Bottom this
12.0	"	10.5	N=5
10.5	"	-5.0	Soft gray marl

Ft. T. STA

Elevation of Hub

-5.0	to	-16.0	Medium blue sandy marl
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M & T F-1

(2)
(17)

48 Ft. Rt. T. STA. 522+26

Elevation of Hub 31.0

31.0	to	26.0	Stiff yellow clay
26.0	"	21.0	Stiff yellow sand clay
21.0	"	19.5	N=11
19.5	"	17.0	Stiff yellow clay
17.0	"	15.5	N=10 Bottom this
15.5	"	13.0	Stiff gray sand clay
13.0	"	11.5	N=9 Bottom this
11.5	"	5.0	Soft blue marl

Ft T. STA.

Elevation of Hub

5.0	to	1.0	Medium yellow sand clay
1.0	"	-19.0	Medium blue sandy marl
	"		
	"		
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10 Ft. Rt. C/L T. STA 522+26

Elevation of Hub 32.0

32.0	to	20.0	Very stiff yellow clay
20.0	"	10.0	Stiff yellow and gray clay
10.0	"	2.0	Medium gray sandy marl
2.0	"	-18.0	Medium blue marl w/ layers of sand
	"		
	"		
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	"		

M & T F-1

12)
(18)

48 Ft. Rt. C/L T. STA. 523+26

Elevation of Hub 36.9 Bent #4

36.9	to	30.0	Stiff red clay w/ small amount of sand
30.0	"	27.0	Stiff yellow and gray sand clay
27.0	"	17.0	Stiff yellow sand clay
17.0	"	1.0	Yellow and brown sand
1.0	"	-18.0	Medium yellow sand clay
	"		
	"		
	"		

10 Ft Rt. C/L T. STA 523+26

Elevation of Hub 36.8

36.8	to	27.0	Very stiff yellow clay w/ small amount of sand
27.0	"	25.0	Gray sand clay
25.0	"	22.0	Medium yellow sand
22.0	"	20.5	N=18
20.5	"	18.0	Pink sand w/ small amount of pea gravel
18.0	"	16.5	N=18
16.5	"	14.0	Stiff brown and gray clay
14.0	"	12.5	N=12

Ft. T. STA.

Elevation of Hub

12.5	to	1.0	Medium yellow sand
1.0	"	-18.0	Medium yellow sand w/ small amount of clay
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M & T F-1

(X)
(19)

20 Ft. Lt. C/L T. STA. 523+26

Elevation of Hub 35.9

35.9	to	26.0	Very stiff red sand clay
26.0	"	16.0	Stiff brown and gray clay
16.0	"	8.0	Stiff yellow and gray sand clay
8.0	"	-19.0	Medium yellow sand clay w/ layers of sand
	"		
	"		
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48 Ft. Lt. C/L T. STA. 523+26

Elevation of Hub 34.0

34.0	to	24.0	Very stiff red clay
24.0	"	20.0	Stiff pink sand clay
20.0	"	18.5	N=27 Bottom this
18.5	"	16.0	Medium gray sand clay
16.0	"	14.5	N=31 Bottom this
14.5	"	12.0	Medium gray clay
12.0	"	10.5	N=10 Bottom this
10.5	"	-1.0	Medium yellow sand clay w/ layers of sand

Ft. T. STA.

Elevation of Hub

-1.0	to	-16.0	Medium blue sand marl
	"		
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M & T F-1

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(20)

48 Ft. Rt. C/L T. STA. 524+06

Elevation of Hub 41.1 Bent #5

41.1	to	36.0	Medium brown sand clay
36.0	"	28.0	Stiff yellow sand clay
28.0	"	25.0	Medium red sand clay
25.0	"	1.0	Medium yellow sand w/ small amount of clay
1.0	"	-15.0	Soft yellow clay w/ small amount of sand
	"		
	"		
	"		

10 Ft. Rt. C/L T. STA. 524+06

Elevation of Hub 38.6

38.6	to	37.0	Soft brown sand
37.0	"	28.0	Hard yellow sand clay
28.0	"	22.0	Very stiff sand clay Bottom this
22.0	"	20.5	N=41
20.5	"	18.0	Dense yellow sand
18.0	"	16.5	N=36 Bottom this
16.5	"	14.0	Wet yellow sand
14.0	"	12.5	N=16 Bottom this

Ft. T. STA.

Elevation of Hub

12.5	to	3.0	Loose wet yellow and gray sand
3.0	"	-12.0	Medium wet brown sand clay
-12.0	"	-32.0	Stiff blue sandy marl
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M & T F-1

(2)X
(21)

30 Ft Lt. C/L T. STA. 524+06

Elevation of Hub 36.0

36.0	to	34.0	Brown silty sand
34.0	"	26.0	Hard yellow sand clay
26.0	"	1.0	Dense yellow sand
1.0	"	-15.0	Wet yellow sand w/ layers of yellow clay
	"		
	"		
	"		
	"		

48 Ft. Lt. T. STA 524+06

Elevation of Hub 32.0

32.0	to	27.0	Very stiff yellow sand clay
27.0	"	22.0	Very stiff yellow sand South of this
22.0	"	20.5	N=19
20.5	"	18.0	Dense yellow sand
18.0	"	16.5	N= 22
16.5	"	14.0	Dense yellow sand
14.0	"	12.5	N=16 Bottom this
12.5	"	-3.0	Medium yellow sand

Ft. T. STA.

Elevation of Hub

-3.0	to	-13.0	Soft yellow sand clay
-13.0	"	-18.0	Soft gray sandy marl
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M & T F-1

(22)

48 Ft. Lt. C/L T. STA. 524+48

Elevation of Hub 32.0

32.0	to	30.0	Stiff brown silty clay
30.0	"	24.0	Very stiff yellow sand clay
24.0	"	2.0	Medium yellow sand w/ layers of clay
	"		
	"		
	"		
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	"		

20 Ft. Lt. C/L T. STA. 524+48

Elevation of Hub 34.1

34.1	to	32.0	Stiff brown clay
32.0	"	28.0	Very stiff yellow sand clay
28.0	"	-4.0	Dense yellow sand w/ small amount of clay
	"		
	"		
	"		
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10 Ft. Rt. C/L T. STA. 524+48

Elevation of Hub 38.0

38.0	to	36.0	Stiff brown sand clay
36.0	"	28.0	Very stiff yellow sand clay
28.0	"	8.0	Dense yellow sand
	"		
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M & T F-1

(2)
(23)

48 Ft. Rt. C/L T. STA 524+48

Elevation of Hub 43.5

43.5	to	38.0	Stiff red and brown clay
38.0	"	22.0	Very stiff red sand clay
22.0	"	7.0	Dense yellow sand
	"		
	"		
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	"		

C/L Ft. Rt. Lane T. STA. 726+00

Elevation of Hub 118.1 Culvert @ Sta. 726+00

118.1	to	115.6	Brown sandy muck
115.6	"	107.0	Medium gray sand
107.0	"	98.0	Stiff gray sandy marl
	"		
	"		
	"		
	"		
	"		

C/L Ft. Lt. Lane T. STA. 726+40

Elevation of Hub 119.7

119.7	to	115.7	Brown sandy muck
115.7	"	110.0	Gray sand
110.0	"	98.0	Stiff gray sandy marl
	"		
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M & T F-1

(12)
(24)

140 Ft. Lt. C/L T. STA. 533+25

Elevation of Hub 46.6 Culvert at Station 532+75

46.6	to	41.4	Brown muck
41.4	"	28.0	Medium gray and white sand
28.0	"	24.0	Stiff yellow sand clay
	"		
	"		
	"		
	"		
	"		

140 Ft. Rt. C/L T. STA. 532+00

Elevation of Hub 44.8

44.8	to	39.6	Brown muck
39.6	"	30.0	Medium gray sand
30.0	"	24.0	Medium yellow sand w/ small amount of clay
	"		
	"		
	"		
	"		
	"		

C/L Ft. T. STA. 512+90

Elevation of Hub 47.7 Culvert at Station 512+90

47.7	to	40.7	Brown sandy muck
40.7	"	26.0	Medium pink and gray sand w/ layer of marl
	"		
	"		
	"		
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	"		
	"		

M & T F-1

(2X
(25)

160 Ft. Rt. C/L T. STA. 512+00

Elevation of Hub 45.0

45.0	to	40.5	Brown muck
40.5	"	35.0	Gray sandy marl
35.0	"	25.0	Medium gray sand w/ layer of marl
	"		
	"		
	"		
	"		
	"		

160 Ft. Lt. C/L T. STA. 513+70

Elevation of Hub 49.7

49.7	to	44.2	Brown muck
44.2	"	42.0	Fine gray sand
42.0	"	40.0	Pea Gravel
40.0	"	32.0	Fine gray sand w/ thin layers of clay
32.0	"	29.0	Stiff gray sandy marl
	"		
	"		
	"		

Ft. T. STA.

Elevation of Hub

	to		
	"		
	"		
	"		
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M & T F-1

(26) Fish River at Sta. 812+00

Ft. C/L Rt. Lane T. STA 813+00

Elevation of Hub 109.5

109.5	to	99.0	Very soft brown sandy muck (bottom of muck)
99.0	"	97.5	N=10
97.5	"	94.0	Medium white sand
94.0	"	92.5	N=12
92.5	"	89.0	Medium yellow sand w/ small amount of gravel
89.0	"	87.5	N=5
87.5	"	84.0	Medium yellow sand w/ small amount of gravel
84.0	"	82.5	N=6

Ft. T. STA

Elevation of Hub

82.5	to	79.0	Very soft gray and yellow silty sand
79.0	"	77.5	N=2 Bottom ↓
77.5	"	74.0	Stiff gray and yellow sandy marl
74.0	"	72.5	N=17
72.5	"	69.0	Dense fine gray sand w/ thin layers of yellow clay
69.0	"	67.5	N=12
67.5	"	64.0	← Bottom of this Medium fine gray sand

Ft. T. STA

Elevation of Hub

64.0	to	62.5	N=8
62.5	"	59.0	Fine yellow and gray sand in layers
59.0	"	57.5	N=10
57.5	"	49.0	Medium fine yellow and gray sand
	"		
	"		
	"		
	"		

M & T F-1

(2)
~~(6)~~ (31)

Ft C/L Lt. Lane T STA 812+00

Elevation of Hub 106.9

106.9	to	101.0	Black muck
101.0	"	97.0	White sand
97.0	"	95.5	N=20
~~95.5~~ 97.0	"	92.0	Stiff gray sandy marl.
92.0	"	90.5	N=10
~~90.5~~ 92.0	"	87.0	Stiff gray silty sand
87.0	"	85.5	N=11
~~85.5~~ 87.0	"	82.0	Dense yellow sand w/ small amount of clay

Ft T STA

Elevation of Hub

82.0	to	80.5	N=33
~~80.5~~ 82.0	"	77.0	Yellow sand and pea gravel
77.0	"	75.5	N=7
~~75.5~~ 77.0	"	72.0	Soft gray and yellow silty sand
72.0	"	70.5	N=3
~~70.5~~ 72.0	"	67.0	Soft gray silty sand
67.0	"	65.5	N=9
~~65.5~~ 67.0	"	62.0	Fine yellow silty sand

Ft T STA

Elevation of Hub

62.0	to	60.5	N=10
~~60.5~~ 62.0	"	57.0	Fine yellow silty sand
57.0	"	47.0	Dense yellow and gray silty sand
	"		
	"		
	"		
	"		
	"		

M & T F-1

(2)
(30)

Ft C/L Lt. Lane T STA 814+00

Elevation of Hub 105.1

105.1	to	100.0	Brown Muck
100.0	"	95.0	White sand w/ organic matter
95.0	"	93.5	N=5
93.5	"	90.0	Medium white sand w/ thin layers of clay
90.0	"	88.5	N=7
88.5	"	85.0	Dense brown silty sand
85.0	"	83.5	N=19
83.5	"	80.0	Dense gray sand w/ layers of yellow sand clay

Ft T STA

Elevation of Hub

80.0	to	78.5	N=14
78.5	"	75.0	Stiff gray silty sand w/ layers of yellow
	"		sand clay
75.0	"	73.5	N=25
73.5	"	70.0	Stiff yellow sandy clay
70.0	"	68.5	N=27
68.5	"	65.0	Dense gray and pink sand
65.0	"	63.5	N=48

Ft T STA

Elevation of Hub

63.5	to	60.0	Dense yellow and gray sand w/ small amount
	"		of clay
60.0	"	58.5	N=28
58.5	"	55.0	Dense yellow sand w/ layers of gray clay
	"		
	"		
	"		
	"		

M & T F-1

(2)
(27)

Ft C/L Rt. Lane T STA 815+00

Elevation of Hub 104.1

104.1	to	100.0	Black muck
100.0	"	94.0	Medium gray sand
94.0	"	92.5	N=17
92.5	"	89.0	Dense gray and yellow sand
89.0	"	87.5	N=9
87.5	"	84.0	Dense yellow sand w/ small amount of gravel
84.0	"	82.5	N=20
82.5	"	79.0	Dense yellow sand w/ small amount of gravel

Ft T STA

Elevation of Hub

79.0	to	77.5	N=24
77.5	"	74.0	Dense fine yellow and gray sand
74.0	"	72.5	N=10
72.5	"	69.0	Medium fine yellow and gray sand w/ thin layers
	"		of clay
69.0	"	67.5	N=4
67.5	"	64.0	Fine yellow and gray sand
64.0	"	62.5	N=9

Ft T STA

Elevation of Hub

62.5	to	59.0	Medium fine yellow sand
59.0	"	57.5	N=10
57.5	"	54.0	Medium fine yellow and gray sand
54.0	"	52.5	N=7
	"		
	"		
	"		
	"		

M & T F-1

(28)

Ft C/L Rt. Lane T STA 817+00

Elevation of Hub 103.8

103.8	to	99.0	Brown muck
99.0	"	94.0	White sand
94.0	"	92.5	N=7
92.5	"	89.0	Loose yellow sand w/ small amount of gravel
89.0	"	87.5	N=5
87.5	"	84.0	Dense yellow sand w/ small amount of gravel
84.0	"	82.5	N=16
82.5	"	79.0	Dense yellow sand w/ thin layers of clay

Ft T STA

Elevation of Hub

79.0	to	77.5	N=10
77.5	"	74.0	Medium fine yellow and gray sand w/ thin
	"		layers of gray clay
74.0	"	72.5	N=8
72.5	"	69.0	Stiff gray sand clay w/ layers of sand
69.0	"	67.5	N=9
67.5	"	64.0	Dense yellow sand w/ hard layers
64.0	"	62.5	N=79

Ft. T STA

Elevation of Hub

62.5	to	59.0	Dense yellow sand w/ thin hard layers
59.0	"	57.5	N=22
57.5	"	44.0	Dense yellow and gray sand w/ layers of
	"		stiff gray clay
	"		
	"		
	"		
	"		

M & T F-1

(29)

Ft C/L Lt. Lane T STA 816+00

Elevation of Hub 105.8

105.8	to	103.0	Black muck
103.0	"	101.0	Stiff gray clay
101.0	"	96.0	Medium yellow and gray sand
96.0	"	94.5	N=11
94.5	"	91.0	Stiff yellow and gray sand w/ layers of sand
	"		clay
91.0	"	89.5	N=10
89.5	"	86.0	Stiff gray sandy clay

Ft T STA

Elevation of Hub

86.0	to	84.5	N=22
84.5	"	81.0	Stiff gray clay w/ layers of sand
81.0	"	79.5	N=23
79.5	"	66.0	Yellow and gray silty sand
66.0	"	64.5	N=27
64.5	"	61.0	Stiff yellow and gray sand
61.0	"	59.5	N=27
59.5	"	56.0	Stiff gray sandy clay w/ layers of yellow

Ft T. STA

Elevation of Hub

	to		sand
	"		
	"		
	"		
	"		
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	"		
	"		

SUPERSTRUCTURE

FLOOR CROWN: 4" Parabolic | SUPERELEVATION: — | VERT CLEAR: OPEN

SIDEWALKS: — | EXP JT MATL: 1" OPEN | DRAINS: 3" Ø

SPAN NO	FLOOR DEPTH AND MATL	WEAR SURF DEPTH AND MATL	CURBS HEIGHT AND MATL	RAILING TYPE	RAILING NO	RAILING MATL	RAILING HT	RAILING POSTS	CLEARANCE BETW CURBS	CLEARANCE BETW RAILS
1 – 13	6" Conc.		11" Conc	F	1	Conc	2'-3"	Conc	39'-3"	40'-9"

STRINGERS - BEAMS OR GIRDERS

SPAN NO	MATL	SPAN C C BEARS	NO OF BEAMS	SPACING	SECTION OUTS STRING	SECTION INS STRING	TYPE EXP	STD DWG	DESIGN RATING
1 – 13	RCDG		6	7'-0"	16 3/4"	x 29"	Slab	C3934-B 30	HS20-44

TRUSSES

WHEN MADE: | YIELD POINT: | FABRICATED BY:

DESIGN RATING: FLOOR: | TRUSSES:

SPAN NO	MATL - KIND - TYPE - CONNS	SPAN C C BEARS	NO AND LGTH OF PANELS	DIST C C TRUSSES	DEPTH AT CENTER	TYPE EXP	STD DWG

SUBSTRUCTURE

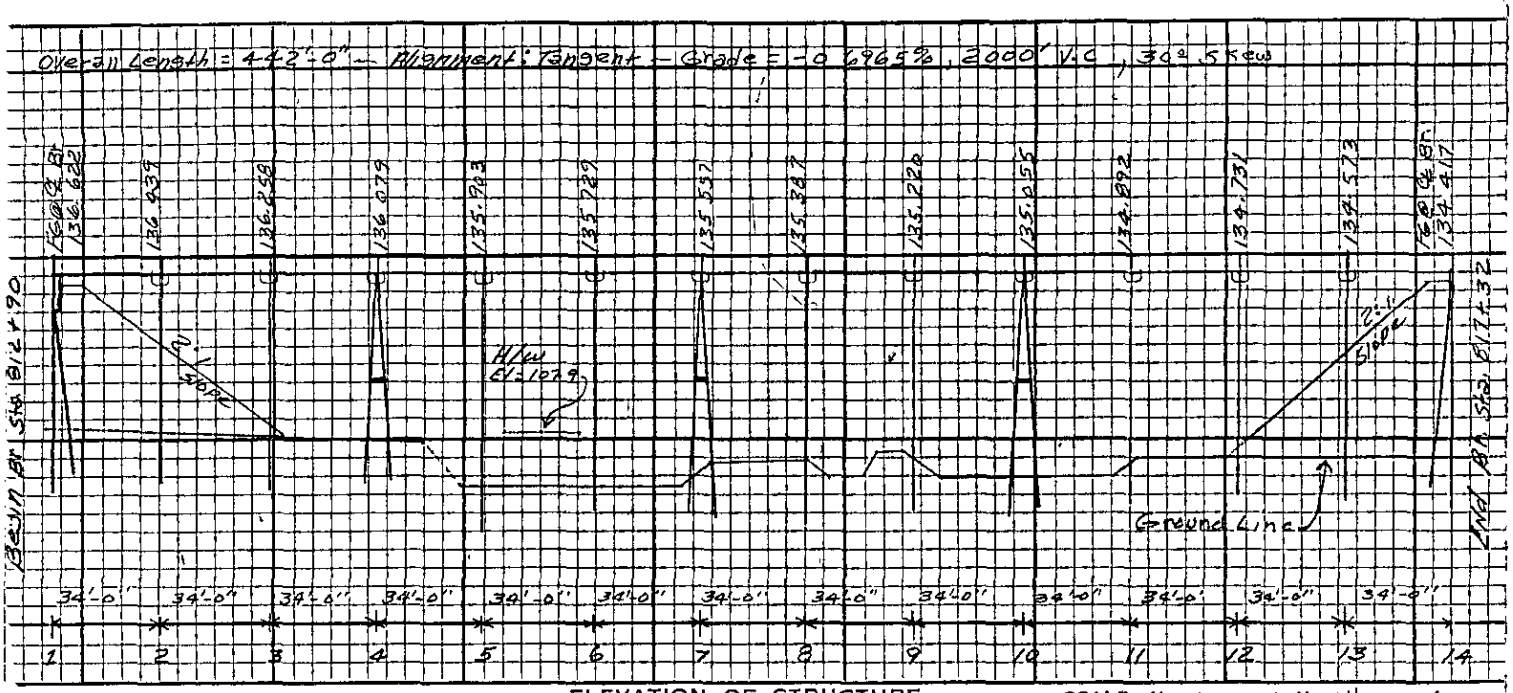
BENT NO	TYPE AND MATL	HT GRADE TO TOP CAP	HT TOP CAP TO BOTT FOOT	NO AND LGTH PILES	FOUNDATION MATL	DIST GRADE TO GROUND	Std. Dwg
REAR ABUT 1	6' R.C & Steel Pile	2'-7"					PA 3900-B-30
FWD 14	" " " "	"					"
PIER OR BENT 2	R.C & Steel Pile (6 Pile)	"					PB-3934-30
3	" " " "	"					"
4	R.C. & Steel Pile (Tower)	"					"
5	R.C. & Steel Pile (6 Pile)	"					Br. Sh. # 3
6	" " " "	"					
7	R.C & Steel Pile (Tower)	"					
8	R.C & Steel Pile (6 Pile)	"					
9	" " " "	"					
10	R.C & Steel Pile (Tower)	"					
11	R.C & Steel Pile (6 Pile)	"					
12	" " " "	"					
13	" " " "	"					

OL 7.23

BIN: 1017 (+1)

BRIDGE NO	COUNTY	FED RT	U S HWY	PROJECT NO	TYPE	STRENGTH H10	STRENGTH H10	STRENGTH H15	STRENGTH H20	ROADWAY -18	ROADWAY 18 19	ROADWAY 20 21	ROADWAY 22 24	ROADWAY 24+	CLEARANCE 12	CLEARANCE 12 14	CLEARANCE 14+	CLEARANCE OPEN
I-10 02 13.38	Baldwin	—	—	I-10-1(21)35	S.C.C.				■					■				■

FORM BI-S | STATE OF ALABAMA HIGHWAY DEPARTMENT | TRUSS - SLAB - BEAM AND GIRDER BRIDGES | DATE 7-21-71



ELEVATION OF STRUCTURE SCALE H- 1" = 60' V- 1" = 30'

GENERAL

NAME OF BRIDGE:

OVER: STREAM R R OR HIGHWAY: Fish River

WHEN BUILT? 1970 BY State

MAINT BY: State OVERALL LGTH FLOOR: 442'-0"

NO AND LENGTH OF SPANS: 13 @ 34'-0"

MIN DESIGN RATING: HS20-44 FOR:

OPERATING RATING:

APPROACH PAVT TYPE: Bit. Conc

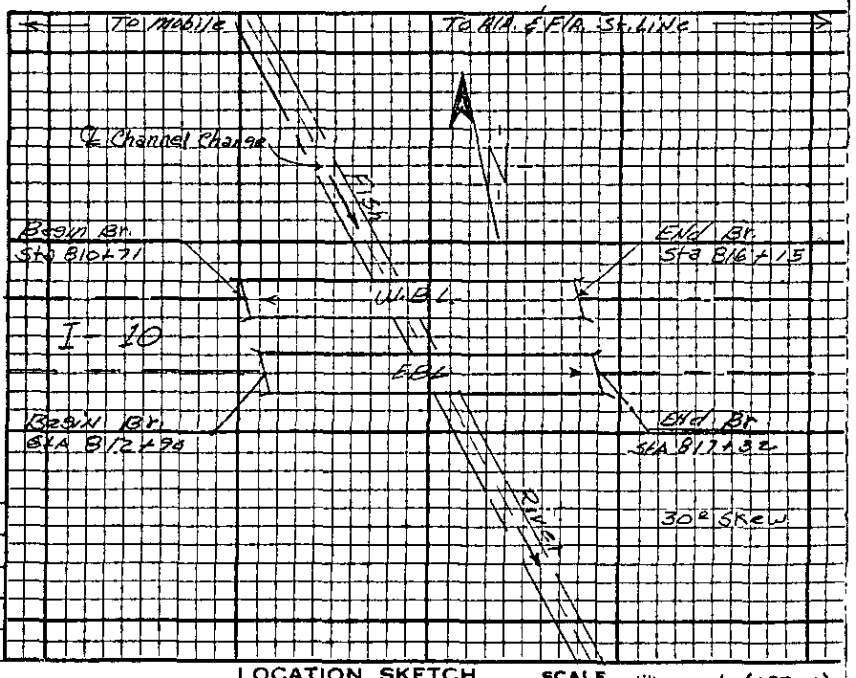
PAVT WIDTH: 2@24' SHOULDER WIDTH: 48'

SIGHT DIST VERT HORIZ:

ORIG COST:

REMARKS EBL

PHOTOGRAPH



LOCATION SKETCH SCALE 1" = 300' (APPROX)

WATERWAY DATA

DIST LOW BRIDGE TO HW: GRADE TO LOW BRIDGE:

DRAINAGE AREA: 11.59 mi.

CHARACTER AND CONSTANT Q50 = 4500 CFS, Vm50 = 3.25 ft/sec.

CHANNEL DEPTH: WIDTH BETW BANKS:

NATURE OF BOTTOM: Opening Provided, 1384.58 ft

CONDITION OF BANKS:

DESCRIP OF PROTECTIVE WORKS

DOES ALL FLOOD PASS STRUCTURE? IF NOT, WHERE?

REMARKS

SUPERSTRUCTURE

FLOOR CROWN: 4" Parabolic on EBL SUPERELEVATION: 1/4" 1/1 on W.B.L. VERT CLEAR: OPEN

SIDEWALKS: — EXP JT MATL.: 1" OPEN DRAINS: 3" ϕ

SPAN NO	FLOOR DEPTH AND MATL	WEAR SURF DEPTH AND MATL	CURBS HEIGHT AND MATL	RAILING TYPE	RAILING NO	RAILING MATL	RAILING HT	RAILING POSTS	CLEARANCE BETW CURBS	CLEARANCE BETW RAILS
1-7	6" Conc.		11" Conc	F	1	Conc	2'-3"	Conc.	39'-3"	40'-9"

STRINGERS - BEAMS OR GIRDERS

SPAN NO	MATL	SPAN C C BEARS	NO OF BEAMS	SPACING	SECTION OUTS STRING	SECTION INS STRING	TYPE EXP	STD DWG	DESIGN RATING
1-7	R.C.D.G.	—	6	7'-0"	16 3/4"	x 29"	Slide	C-3934B-36	HS20-44

TRUSSES

WHEN MADE YIELD POINT: FABRICATED BY:

DESIGN RATING: FLOOR: TRUSSES:

SPAN NO	MATL - KIND - TYPE - CONNS	SPAN C C BEARS	NO AND LGTH OF PANELS	DIST C C TRUSSES	DEPTH AT CENTER	TYPE EXP	STD DWG

SUBSTRUCTURE

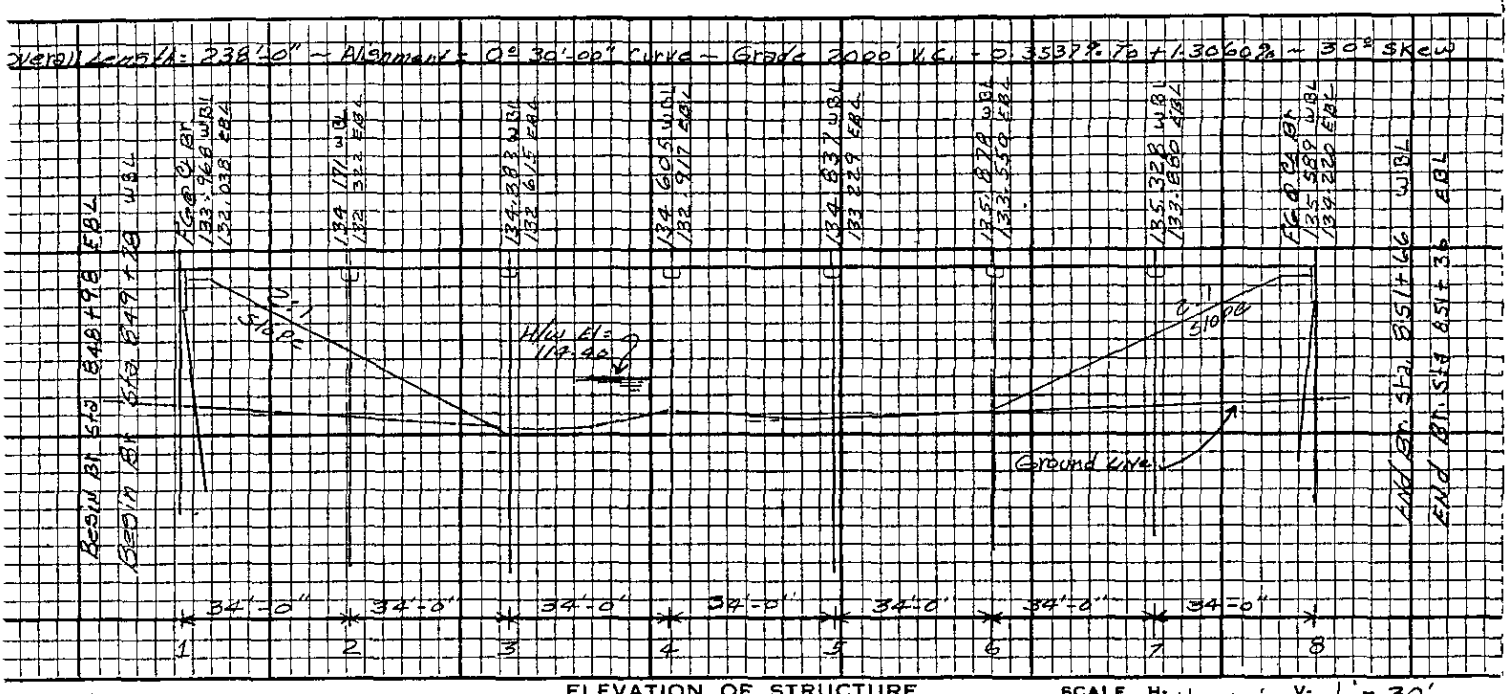
BENT NO		TYPE AND MATL	HT GRADE TO TOP CAP	HT TOP CAP TO BOTT FOOT	NO AND LGTH PILES	FOUNDATION MATL	DIST GRADE TO GROUND	Std Dwg
REAR ABUT	1	6' R.C & Steel Pile	2'-7"					PA3900-B30
FWD	8	" " " "	"					"
PIER OR BENT:	2	RC & Steel Pile (6 Pile)	"					PB3934-30
	3	" " " "	"					& Br sh #3
	4	" " " "	"					"
	5	" " " "	"					"
	6	" " " "	"					"
	7	" " " "	"					"

OL 7.91

BIN: 10172(-) & BIN: 10173(+1)

BRIDGE NO	COUNTY	FED RT	U S HWY	PROJECT NO	TYPE	STRENGTH H10	STRENGTH H10	STRENGTH H15	STRENGTH H20	ROADWAY 18	ROADWAY 18 18	ROADWAY 20 22	ROADWAY 22 24	ROADWAY 24+	CLEARANCE 12	CLEARANCE 12 14	CLEARANCE 14+	CLEARANCE OPEN
10 02 14.0	Baldwin	—	—	I-10-1(21)35	S.C.C				■					■				■

FORM 21 5 STATE OF ALABAMA HIGHWAY DEPARTMENT TRUSS - SLAB - BEAM AND GIRDER BRIDGES DATE 7-22-71



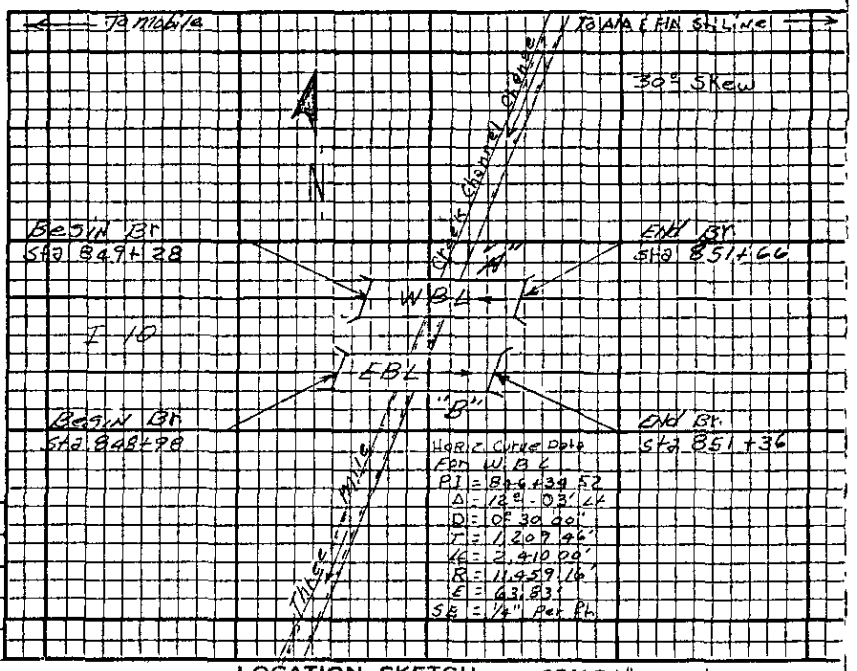
ELEVATION OF STRUCTURE SCALE H: 1" = 40' V: 1" = 30'

GENERAL

NAME OF BRIDGE:		MIN DESIGN RATING:	HS20-44 FOR:
OVER: STREAM R R OR HIGHWAY:	Three mile Creek	OPERATING RATING:	
WHEN BUILT?	1970 BY: State	APPROACH PAVT TYPE:	B.t Conc
MAINT BY:	State	OVERALL LGTH FLOOR:	238'-0"
NO AND LENGTH OF SPANS:	7 @ 34'-0"	PAVT WIDTH:	2@24' SHOULDER WIDTH: 4B
		SIGHT DIST VERT:	HORIZ
		ORIG COST:	

REMARKS Note: W B L IS IN 0°-30-00" Horiz Curve, E B L IS ON Tangent.
Dual Bridges

PHOTOGRAPH



LOCATION SKETCH SCALE 1" = 300' Approx.

WATERWAY DATA

DIST LOW BRIDGE TO HW:	GRADE TO LOW BRIDGE:
DRAINAGE AREA:	2,490 Ac, 3.9 Sq mi
CHARACTER AND CONSTANT:	Q50 = 2200 CFS, VM50 = 3.03 Ft/sec
CHANNEL DEPTH:	WIDTH BETW BANKS:
NATURE OF BOTTOM:	Opening Provided 725 Sq Ft
CONDITION OF BANKS	
DESCRIP OF PROTECTIVE WORKS	
DOES ALL FLOOD PASS STRUCTURE?	IF NOT, WHERE?

REMARKS

SUPERSTRUCTURE

FLOOR CROWN: 4" Parabolic on EBL SUPERELEVATION: 1/4" 1/1 on W.B.L. VERT CLEAR: OPEN

SIDEWALKS: — EXP JT MATL.: 1" OPEN DRAINS: 3" ϕ

SPAN NO	FLOOR DEPTH AND MATL	WEAR SURF DEPTH AND MATL	CURBS HEIGHT AND MATL	RAILING TYPE	RAILING NO	RAILING MATL	RAILING HT	RAILING POSTS	CLEARANCE BETW CURBS	CLEARANCE BETW RAILS
1-7	6" Conc.		11" Conc	F	1	Conc	2'-3"	Conc.	39'-3"	40'-9"

STRINGERS - BEAMS OR GIRDERS

SPAN NO	MATL	SPAN C C BEARS	NO OF BEAMS	SPACING	SECTION OUTS STRING	SECTION INS STRING	TYPE EXP	STD DWG	DESIGN RATING
1-7	R.C.D.G.	—	6	7'-0"	16 3/4"	x 29"	Slide	C-3934B-36	HS20-44

TRUSSES

WHEN MADE YIELD POINT: FABRICATED BY:

DESIGN RATING: FLOOR: TRUSSES:

SPAN NO	MATL - KIND - TYPE - CONNS	SPAN C C BEARS	NO AND LGTH OF PANELS	DIST C C TRUSSES	DEPTH AT CENTER	TYPE EXP	STD DWG

SUBSTRUCTURE

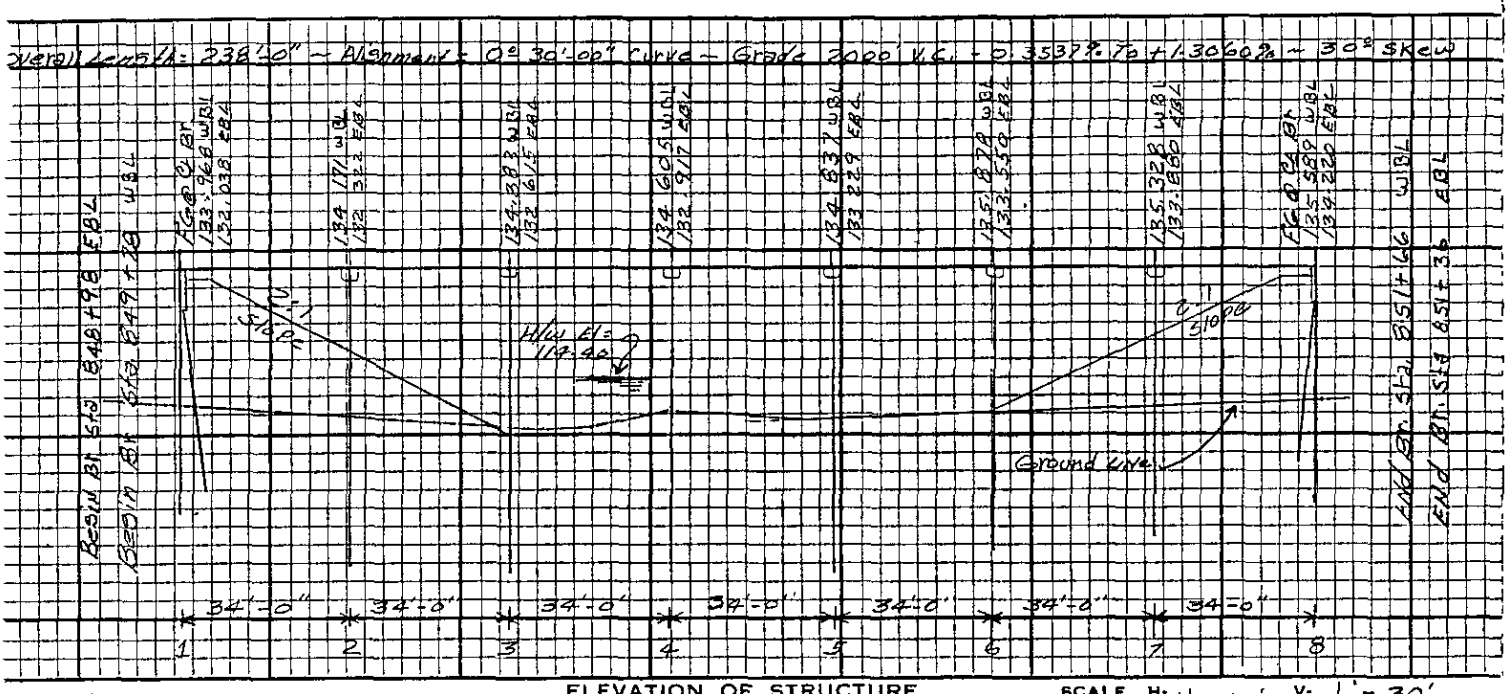
BENT NO		TYPE AND MATL	HT GRADE TO TOP CAP	HT TOP CAP TO BOTT FOOT	NO AND LGTH PILES	FOUNDATION MATL	DIST GRADE TO GROUND	Std Dwg
REAR ABUT	1	6' R.C & Steel Pile	2'-7"					PA3900-B30
FWD	8	" " " "	"					"
PIER OR BENT:	2	RC & Steel Pile (6 Pile)	"					PB3934-30
	3	" " " "	"					& Br sh #3
	4	" " " "	"					"
	5	" " " "	"					"
	6	" " " "	"					"
	7	" " " "	"					"

OL 7.91

BIN: 10172(-) & BIN: 10173(+1)

BRIDGE NO	COUNTY	FED RT	U S HWY	PROJECT NO	TYPE	STRENGTH H10	STRENGTH H10	STRENGTH H15	STRENGTH H20	ROADWAY 18	ROADWAY 18 18	ROADWAY 20 22	ROADWAY 22 24	ROADWAY 24+	CLEARANCE 12	CLEARANCE 12 14	CLEARANCE 14+	CLEARANCE OPEN
10 02 14.0	Baldwin	—	—	I-10-1(21)35	S.C.C				■					■				■

FORM 21 5 STATE OF ALABAMA HIGHWAY DEPARTMENT TRUSS - SLAB - BEAM AND GIRDER BRIDGES DATE 7-22-71



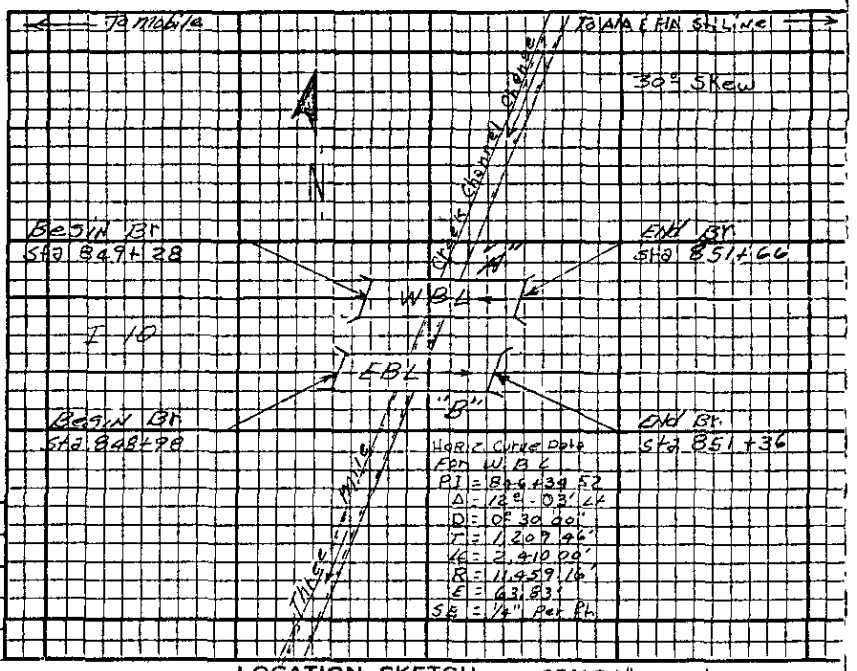
ELEVATION OF STRUCTURE SCALE H: 1" = 40' V: 1" = 30'

GENERAL

NAME OF BRIDGE:		MIN DESIGN RATING:	HS20-44 FOR:
OVER: STREAM R R OR HIGHWAY:	Three mile Creek	OPERATING RATING:	
WHEN BUILT?	1970 BY: State	APPROACH PAVT TYPE:	B.t Conc
MAINT BY:	State	OVERALL LGTH FLOOR:	238'-0"
NO AND LENGTH OF SPANS:	7 @ 34'-0"	PAVT WIDTH:	2@24' SHOULDER WIDTH: 4B
		SIGHT DIST VERT:	HORIZ
		ORIG COST:	

REMARKS Note: W B L IS IN 0°-30-00" Horiz Curve, E B L IS ON Tangent.
Dual Bridges

PHOTOGRAPH



LOCATION SKETCH SCALE 1" = 300' Approx.

WATERWAY DATA

DIST LOW BRIDGE TO HW:	GRADE TO LOW BRIDGE:
DRAINAGE AREA:	2,490 Ac, 3.9 Sq mi
CHARACTER AND CONSTANT:	Q50 = 2200 CFS, VM50 = 3.03 Ft/sec
CHANNEL DEPTH:	WIDTH BETW BANKS:
NATURE OF BOTTOM:	Opening Provided 725 Sq Ft
CONDITION OF BANKS	
DESCRIP OF PROTECTIVE WORKS	
DOES ALL FLOOD PASS STRUCTURE?	IF NOT, WHERE?

REMARKS

SUPERSTRUCTURE

FLOOR CROWN: 1/4" ↓ Slope. SUPERELEVATION: — VERT CLEAR: Open

SIDEWALKS — EXP JT MATL. — DRAINS —

SPAN NO	FLOOR DEPTH AND MATL	WEAR SURF DEPTH AND MATL	CURBS HEIGHT AND MATL	RAILING TYPE	RAILING NO	RAILING MATL	RAILING HT	RAILING POSTS	CLEARANCE BETW CURBS	CLEARANCE BETW RAILS
1-4	6" Conc		11" Conc	F	1	Conc	2'-3"	Conc	39'-3"	40'-9"

STRINGERS BEAMS OR GIRDERS

SPAN NO	MATL	SPAN C C BEARS	NO OF BEAMS	SPACING	SECTION OUTS STRING	SECTION INS STRING	TYPE EXP	STD DWG	DESIGN RATING
1-4	RCDG	46-82.82' C-C	6	7'-0"	16¾" X 48⅞" 84⅞" ←	16¾" X 48⅞" 84⅞" ←	Slide	Special	HS20-44

TRUSSES

WHEN MADE: YIELD POINT FABRICATED BY

DESIGN RATING: FLOOR TRUSSES

SPAN NO	MATL KIND TYPE CONNS	SPAN C C BEARS	NO AND LGTH OF PANELS	DIST C C TRUSSES	DEPTH AT CENTER	TYPE EXP	STD DWG

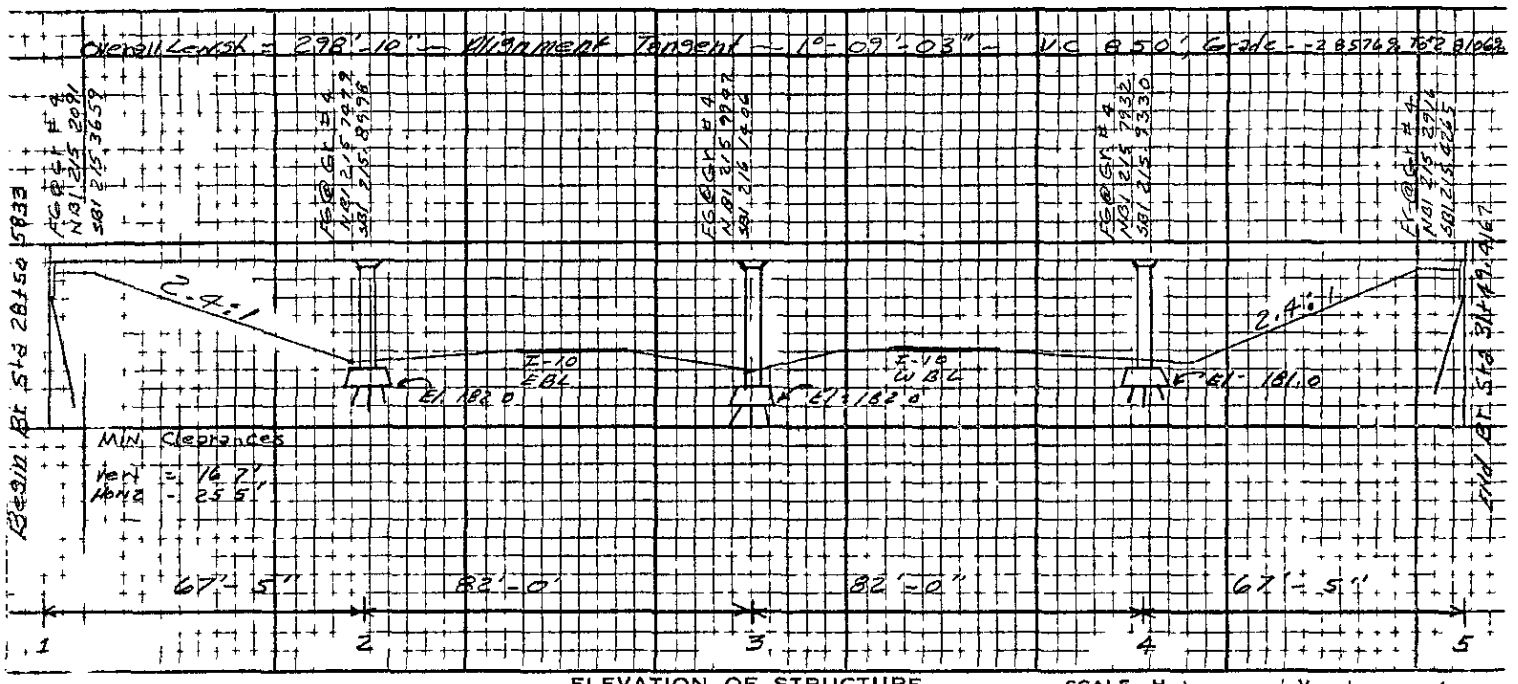
SUBSTRUCTURE

BENT NO	TYPE AND MATL	HT GRADE TO TOP CAP	HT TOP CAP TO BOTT FOOT	NO AND LGTH PILES	FOUNDATION MATL	DIST GRADE TO GROUND	Std DWG
REAR ABUT 1	Steel Pile & Conc Abut.	4'-7 15/16"	—				Special
FWD 5	" " "	4'-7 15/16"	—				
PIER OR BENT 2	RC Tall Bents (Pile Pln.)	7'-5 15/16"	33.7'				"
3	" " "	7'-5 15/16"	33.9'				"
4	" " "	7'-5 15/16"	34.7'				"

A BIN 010418(-1)
B BIN 010419(+1)

BRIDGE NO	COUNTY	FED RT	U S HWY	PROJECT NO	TYPE	STRENGTH H10	STRENGTH H10	STRENGTH H15	STRENGTH H20	ROADWAY 18	ROADWAY 18 19	ROADWAY 20 21	ROADWAY 22 24	ROADWAY 24+	CLEARANCE 12	CLEARANCE 12 14	CLEARANCE 14+	CLEARANCE OPEN
181 2 05	Baldwin	(FAS)	—	T-10-1(21)	RCDG				■					■				■

FORM BI 5 STATE OF ALABAMA HIGHWAY DEPARTMENT TRUSS SLAB BEAM AND GIRDER BRIDGES DATE 7-13-71



ELEVATION OF STRUCTURE SCALE H 1" = 40' V 1" = 30'

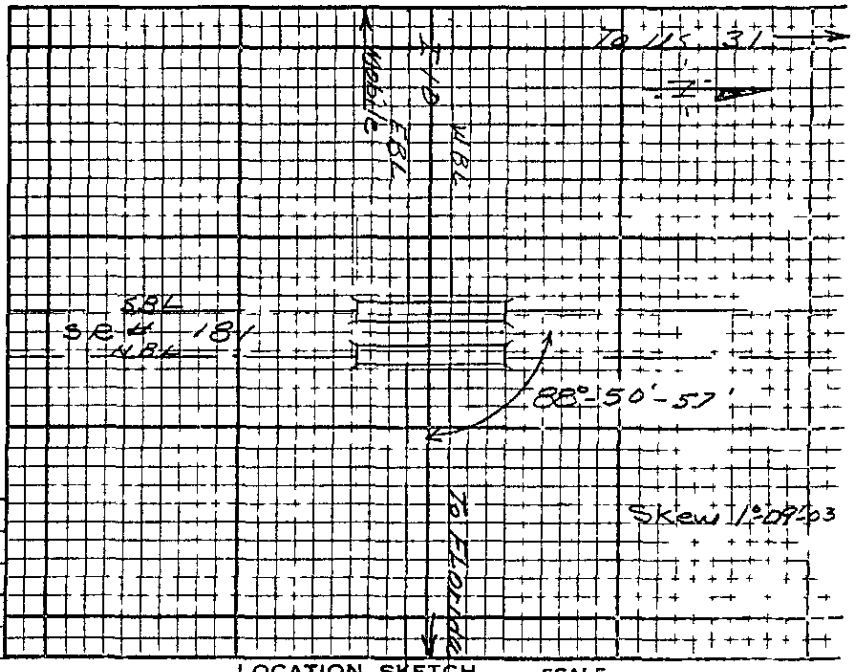
GENERAL

NAME OF BRIDGE
OVER STREAM OR ON HIGHWAY: I-10
WHEN BUILT? 1970 BY State
MAINT BY: State OVERALL LGTH FLOOR: 298'-10"
NO AND LENGTH OF SPANS: 1@ 67-5", 82'-0, 82-0, 67-5'

MIN DESIGN RATING: HS20-44 FOR
OPERATING RATING:
APPROACH PAVT TYPE: Asphalt
PAVT WIDTH: 2@24 SHOULDER WIDTH: 2@40
SIGHT DIST VERT HORIZ
ORIG COST:

REMARKS: Dual Bridges

PHOTOGRAPH



LOCATION SKETCH SCALE 1" = 200'

WATERWAY DATA

DIST LOW CHORD TO HW DRAINAGE AREA
CHARACTER AND CONSTANT OF CHANNEL
DEPTH
NATURE OF BOTTOM
CONDITION OF BANKS
DESCRIP OF PROTECTIVE WORKS
DOES FLOOD OBSTRUCT?
GRADE TO LOW BRIDGE
WIDTH BETW BANKS:
IF NOT, WHERE?

REMARKS

SUPERSTRUCTURE

FLOOR CROWN: 1/4" ↓ Slope. SUPERELEVATION: — VERT CLEAR: Open

SIDEWALKS — EXP JT MATL. — DRAINS —

SPAN NO	FLOOR DEPTH AND MATL	WEAR SURF DEPTH AND MATL	CURBS HEIGHT AND MATL	RAILING TYPE	RAILING NO	RAILING MATL	RAILING HT	RAILING POSTS	CLEARANCE BETW CURBS	CLEARANCE BETW RAILS
1-4	6" Conc		11" Conc	F	1	Conc	2'-3"	Conc	39'-3"	40'-9"

STRINGERS BEAMS OR GIRDERS

SPAN NO	MATL	SPAN C C BEARS	NO OF BEAMS	SPACING	SECTION OUTS STRING	SECTION INS STRING	TYPE EXP	STD DWG	DESIGN RATING
1-4	RCDG	46-82.82' C-C	6	7'-0"	16¾" X 48⅞" 84⅞" ←	16¾" X 48⅞" 84⅞" ←	Slide	Special	HS20-44

TRUSSES

WHEN MADE: YIELD POINT FABRICATED BY

DESIGN RATING: FLOOR TRUSSES

SPAN NO	MATL KIND TYPE CONNS	SPAN C C BEARS	NO AND LGTH OF PANELS	DIST C C TRUSSES	DEPTH AT CENTER	TYPE EXP	STD DWG

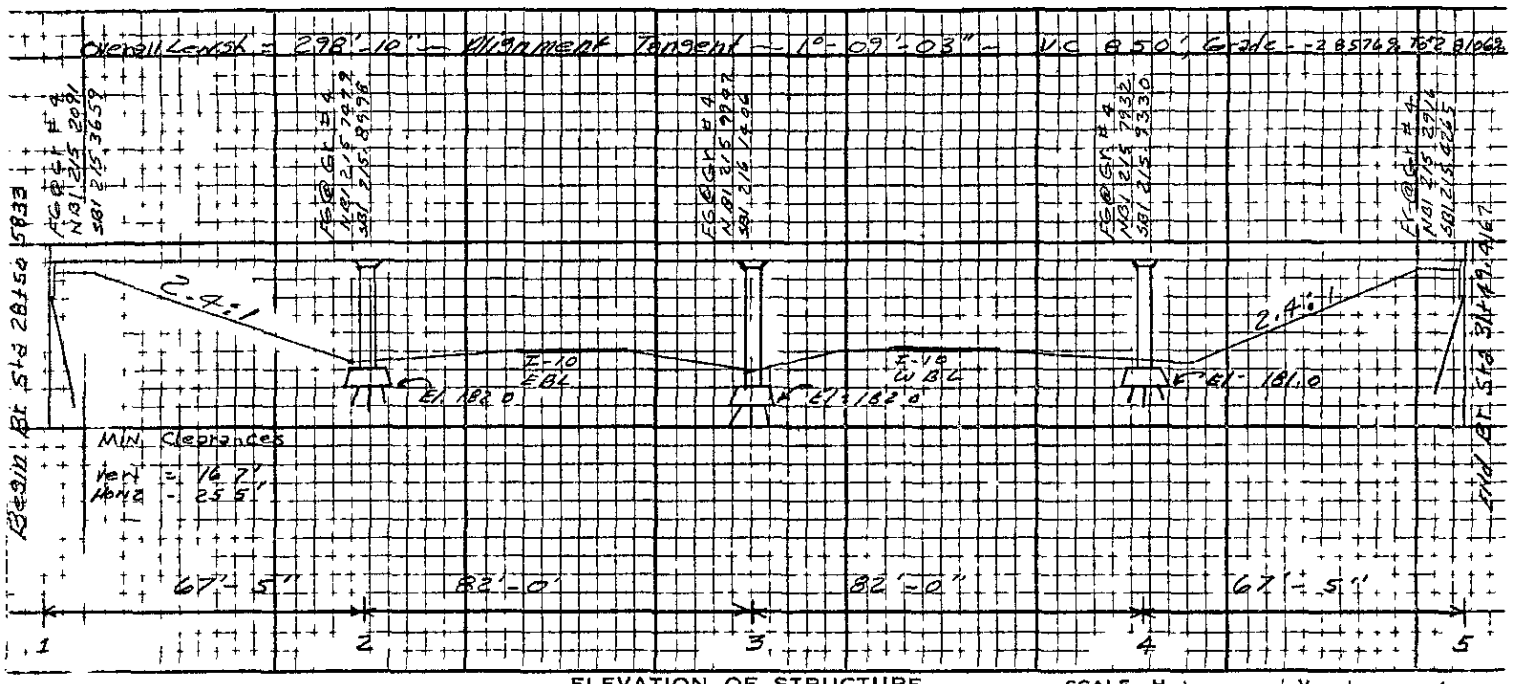
SUBSTRUCTURE

BENT NO	TYPE AND MATL	HT GRADE TO TOP CAP	HT TOP CAP TO BOTT FOOT	NO AND LGTH PILES	FOUNDATION MATL	DIST GRADE TO GROUND	Std DWG
REAR ABUT 1	Steel Pile & Conc Abut.	4'-7 15/16"	—				Special
FWD 5	" " "	4'-7 15/16"	—				
PIER OR BENT 2	RC Tall Bents (Pile Pln.)	7'-5 15/16"	33.7'				"
3	" " "	7'-5 15/16"	33.9'				"
4	" " "	7'-5 15/16"	34.7'				"

A BIN 010418(-1)
B BIN 010419(+1)

BRIDGE NO	COUNTY	FED RT	U S HWY	PROJECT NO	TYPE	STRENGTH H10	STRENGTH H10	STRENGTH H15	STRENGTH H20	ROADWAY 18	ROADWAY 18 19	ROADWAY 20 21	ROADWAY 22 24	ROADWAY 24+	CLEARANCE 12	CLEARANCE 12 14	CLEARANCE 14+	CLEARANCE OPEN
181 2 05	Baldwin	(FAS)	—	T-10-1(21)	RCDG				■					■				■

FORM BI 5 STATE OF ALABAMA HIGHWAY DEPARTMENT TRUSS SLAB BEAM AND GIRDER BRIDGES DATE 7-13-71



ELEVATION OF STRUCTURE SCALE H 1" = 40' V 1" = 30'

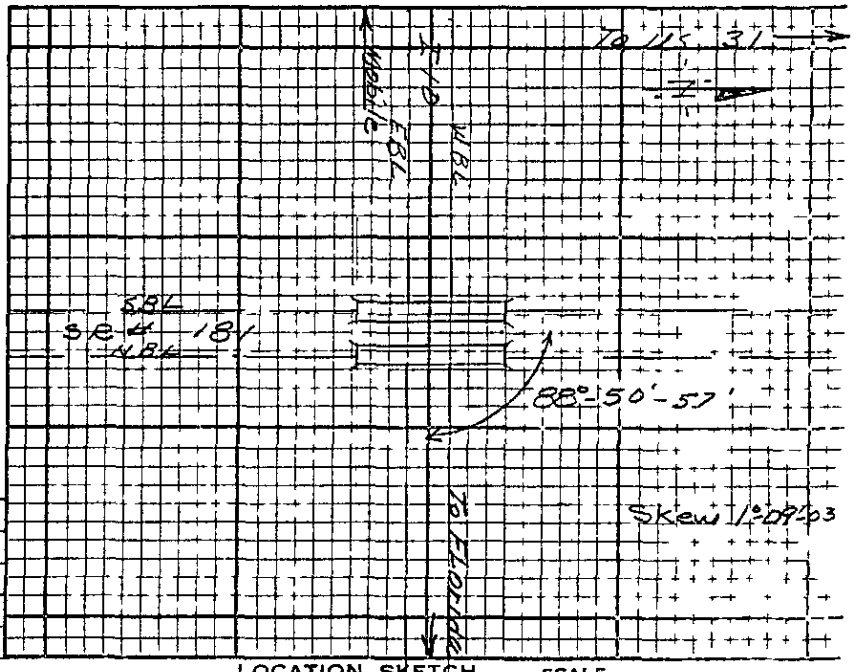
GENERAL

NAME OF BRIDGE
OVER STREAM OR ON HIGHWAY: I-10
WHEN BUILT? 1970 BY State
MAINT BY: State OVERALL LGTH FLOOR: 298'-10"
NO AND LENGTH OF SPANS: 1@ 67-5", 82'-0, 82-0, 67-5'

MIN DESIGN RATING: HS20-44 FOR
OPERATING RATING:
APPROACH PAVT TYPE: Asphalt
PAVT WIDTH: 2@24 SHOULDER WIDTH: 2@40
SIGHT DIST VERT HORIZ
ORIG COST:

REMARKS: Dual Bridges

PHOTOGRAPH



LOCATION SKETCH SCALE 1" = 200'

WATERWAY DATA

DIST LOW CHORD TO HW DRAINAGE AREA
CHARACTER AND CONSTANT OF CHANNEL
DEPTH
NATURE OF BOTTOM
CONDITION OF BANKS
DESCRIP OF PROTECTIVE WORKS
DOES FLOOD OBSTRUCT?
GRADE TO LOW BRIDGE
WIDTH BETW BANKS:
IF NOT, WHERE?

REMARKS

GEOTECHNICAL ENGINEERING TESTING, INC

~ Geotechnical Evaluations ~ Construction Materials Testing ~ Geosciences ~ Infrastructure Management Services ~

SOILS SURVEY AND SLOPE STUDY REPORT— ADDENDUM
PROJECT NO. IM-I010 (320)
I-10 AND SR-181 INTERCHANGE IMPROVEMENTS
BALDWIN COUNTY

Professional Services Since 1974

904 Butler Drive
Mobile, AL 36693
251.666.7197
FAX: 251.666.7380

1629 Government Street
Ocean Springs, MS 39564
228.872.2854
FAX: 228.872.5618

www.geoengr.com

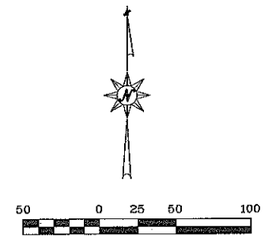
PLAN SHEETS

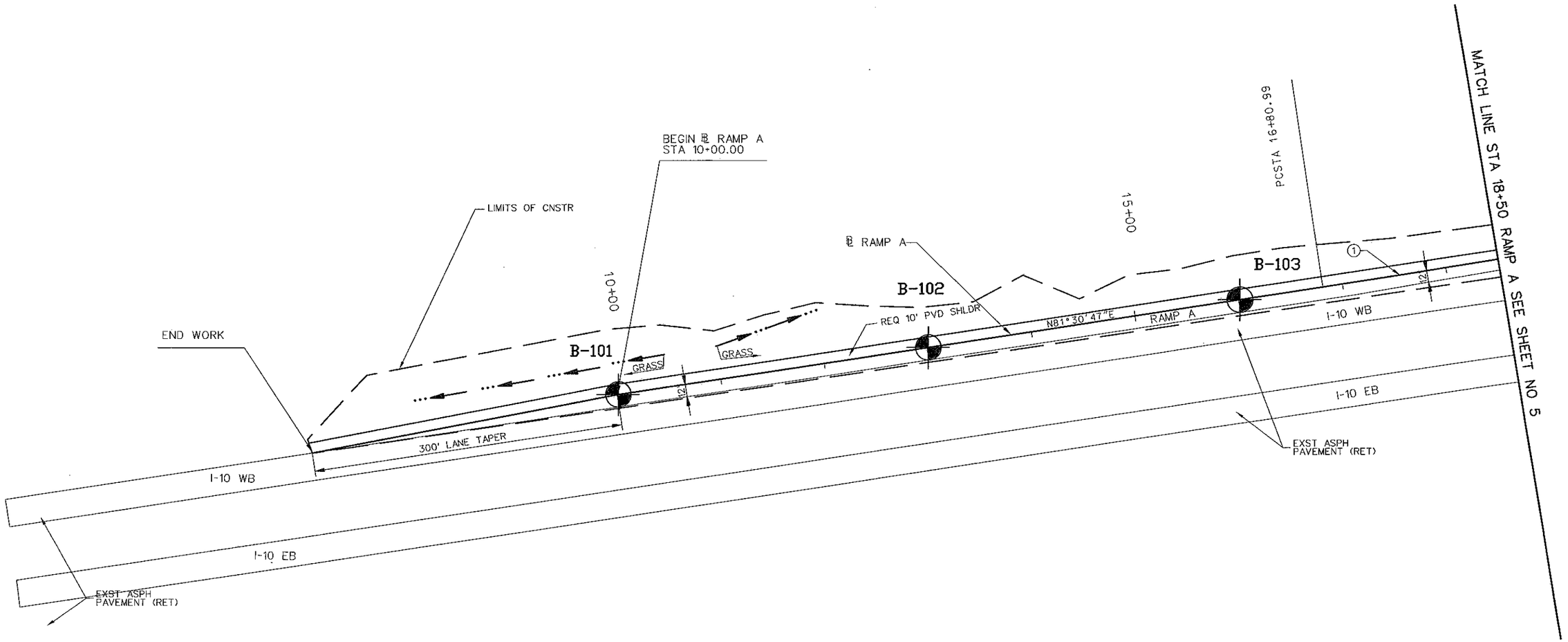
PROJECT NO.	YEAR	NO.
IM-1010(320)	2009	4

CURVE NO	1	NORTHING	EASTING
PC STA	16+80.99	241243.321	1855487.853
PI STA	19+39.53	241281.477	1855743.566
PCR STA			
PT STA	21+97.98	241331.606	1855997.205
Δ	2° 41'34" LT		
D	0° 31'15"		
T	258.54		
L	516.95		
R	11000.00		
e			

PROJECT NOTES
204

GN-2 NOTES
101
108
114
125





NOTE:
FOR PROFILE OF RAMP A
SEE SHEETS NO 11 AND 12.

ALABAMA DEPARTMENT OF TRANSPORTATION

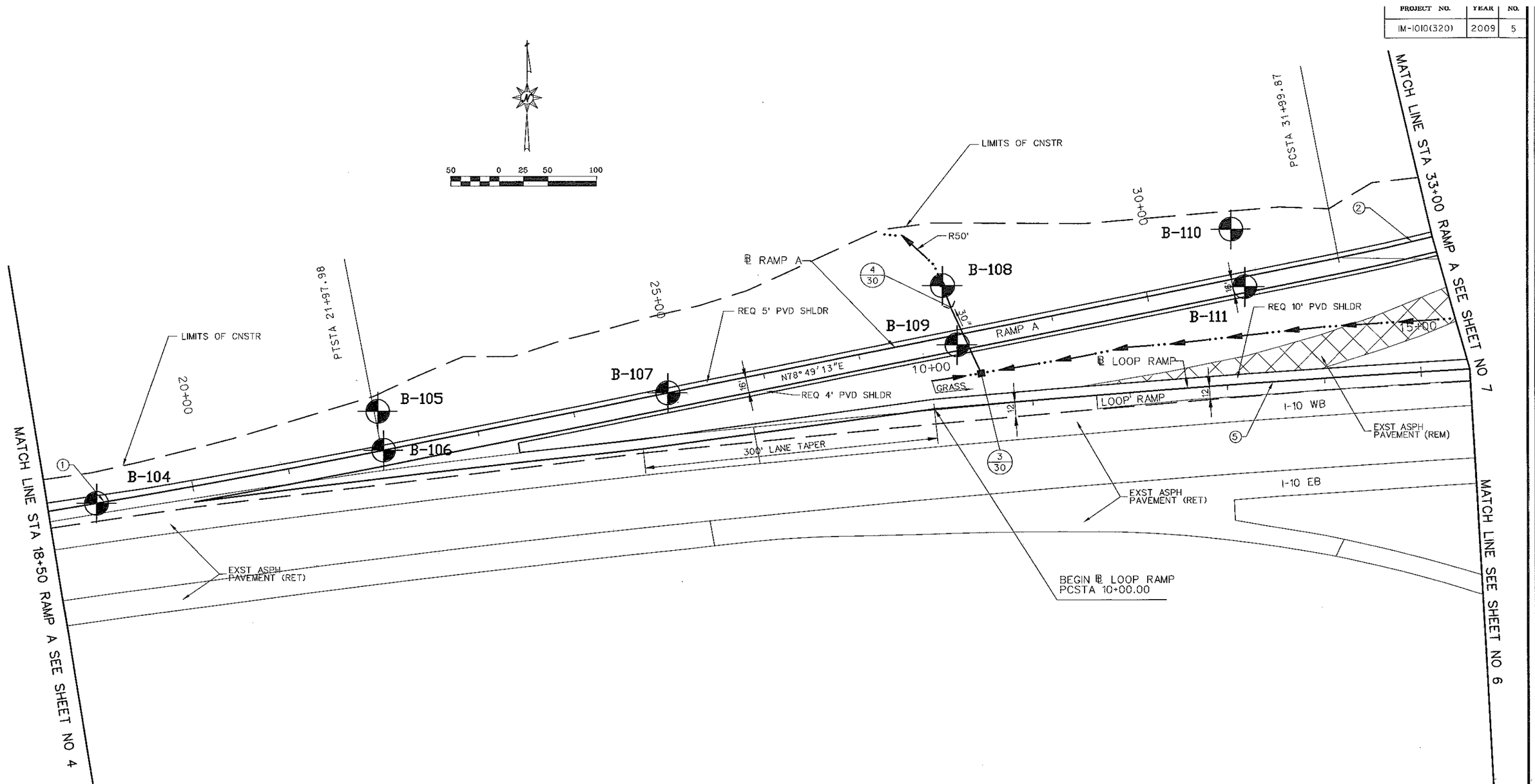
I-10 AND SR-181 INTERCHANGE IMPROVEMENTS

PLAN
RAMP A

JBT J.B. TIMBLIN, INC. A DIVISION OF Hatch Mott MacDonald
Hatch Mott MacDonald Alabama, LLC
1110 Montlimar Drive, Suite 650
Mobile, Alabama 36609

DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG NO

PROJECT NO.	YEAR	NO.
IM-1010(320)	2009	5



CURVE NO	1	NORTHING	EASTING	CURVE NO	2	NORTHING	EASTING	CURVE NO	5	NORTHING	EASTING
PC STA	16+80.99	241243.321	1855487.853	PC STA	31+99.87	241525.859	1856980.081	PC STA	10+00.00	241373.071	1856566.893
PI STA	19+39.53	241281.477	1855743.566	PI STA	35+07.19	241585.445	1857281.571	PI STA	17+11.01	241433.840	1857275.302
PCR STA				PCR STA				PCR STA	24+21.27	241438.174	1857986.299
PT STA	21+97.98	241331.606	1855997.205	PT STA	38+11.44	241716.277	1857559.653	PT STA			
Δ	2° 41'34" LT			Δ	14° 00'59" LT			Δ	4° 33'13" RT		
D	0° 31'15"			D	2° 17'31"			D	0° 19'13"		
T	258.54			T	307.32			T	711.01		
L	516.95			L	611.57			L	1421.27		
R	11000.00			R	2500.00			R	17882.72		
e				e	3.80%			e			

NOTE:
FOR PROFILE OF LOOP RAMP,
SEE SHEET NO 10.
FOR PROFILE OF RAMP A,
SEE SHEET NO 11 AND 12.

ALABAMA DEPARTMENT OF TRANSPORTATION

I-10 AND SR-181 INTERCHANGE IMPROVEMENTS

PLAN
RAMP A AND LOOP RAMP

JBT J.B. TRIMBLE, INC. A DIVISION OF Hatch Mott MacDonald Alabama, LLC
1110 Montlimar Drive, Suite 650
Mobile, Alabama 36609

DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG NO

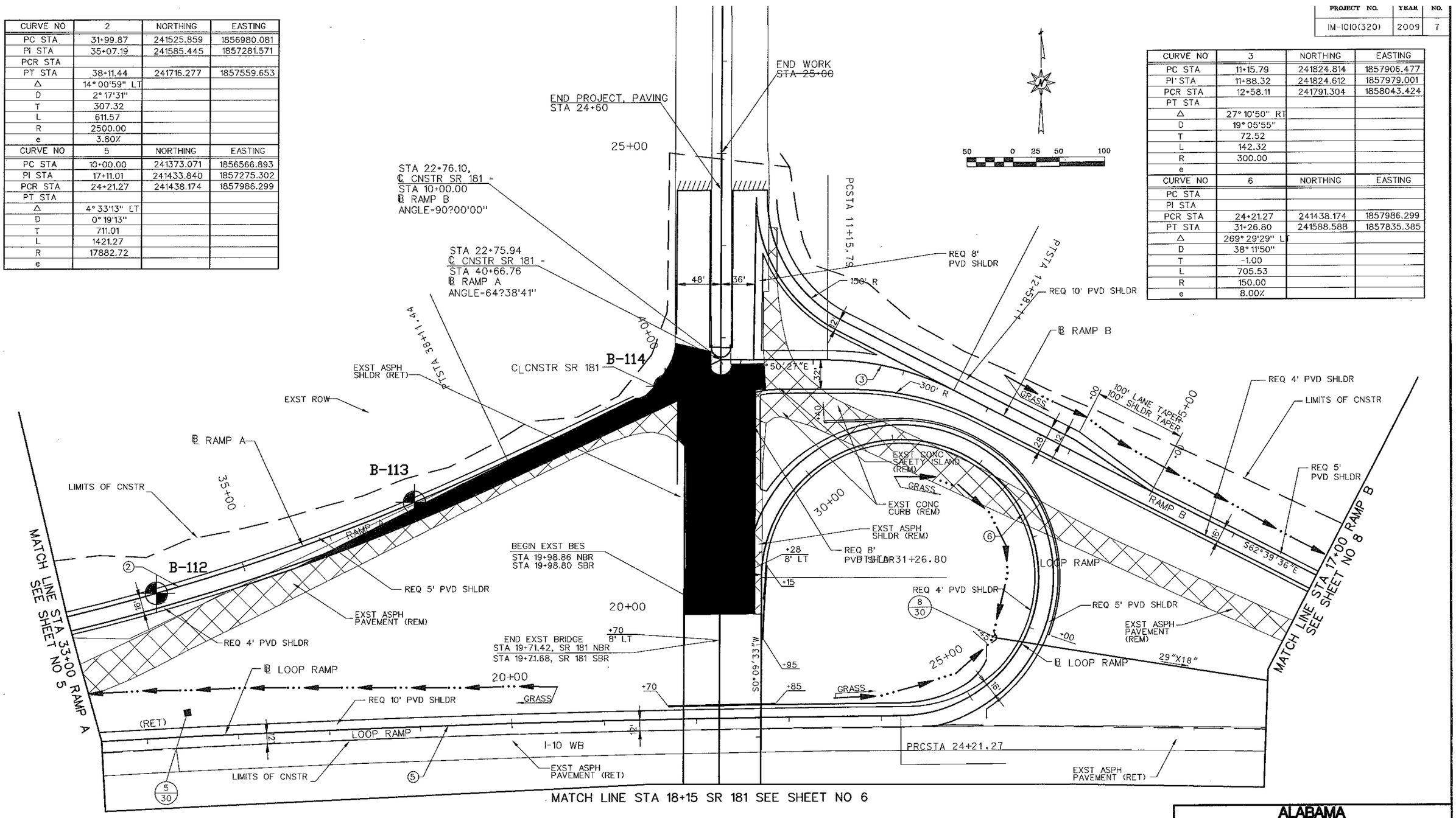
PROJECT NO.	YEAR	NO.
IM-1010(320)	2009	7

CURVE NO	2	NORTHING	EASTING
PC STA	31+99.87	241525.859	1856980.081
PI STA	35+07.19	241585.445	1857281.571
PCR STA			
PT STA	38+11.44	241716.277	1857559.653
Δ	14° 00'59" LT		
D	2° 17'31"		
T	307.32		
L	611.57		
R	2500.00		
e	3.80%		

CURVE NO	5	NORTHING	EASTING
PC STA	10+00.00	241373.071	1856566.893
PI STA	17+11.01	241433.840	1857275.302
PCR STA	24+21.27	241438.174	1857986.299
PT STA			
Δ	4° 33'13" LT		
D	0° 19'13"		
T	711.01		
L	1421.27		
R	17882.72		
e			

CURVE NO	3	NORTHING	EASTING
PC STA	11+15.79	241824.814	1857906.477
PI STA	11+88.32	241824.612	1857979.001
PCR STA	12+58.11	241791.304	1858043.424
PT STA			
Δ	27° 10'50" RT		
D	19° 05'55"		
T	72.52		
L	142.32		
R	300.00		
e			

CURVE NO	6	NORTHING	EASTING
PC STA			
PI STA			
PCR STA	24+21.27	241438.174	1857986.299
PT STA	31+26.80	241588.588	1857835.385
Δ	269° 29'29" LT		
D	38° 11'50"		
T	-1.00		
L	705.53		
R	150.00		
e	8.00%		



NOTES:
FOR PROFILE OF LOOP RAMP, SEE SHEET NO 10.
FORPROFILE OF RAMP A, SEE SHEETS NO 11 AND 12.
FOR PROFILE OF RAMP B, SEE SHEET NO 13.
FOR PROFILE OF SR 181, SEE SHEET NO 16.

ALABAMA DEPARTMENT OF TRANSPORTATION

I-10 AND SR-181 INTERCHANGE IMPROVEMENTS

PLAN
SR 181, RAMP A, RAMP B AND LOOP RAMP

JBT J.B. TREMBLE, INC. A DIVISION OF Hatch Mott MacDonald

Hatch Mott MacDonald Alabama, LLC
1110 Montlimar Drive, Suite 650
Mobile, Alabama 36609

DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG NO

BORING LOGS
(Half Sized)

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP A
STA. 10+00
25.5 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 164.61 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-101

ELEV IN FEET	DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
165	0	4.5" TOPSOIL				
		Firm to dense brownish red and red silty sand w/ trace ironstone	1	13	A-2-4 (0)	-200=19.6 LL=NP MC=13 PI=NP
			2	48	A-2-4 (0)	-200=29.7 LL=19 MC=11 PI=2
			3	50/6		
160	5	Very dense to firm light brown and white silty sand	4	19		
		Firm white and red fine sand w/ red and pink clayey sand layer	5	22		
155	10	B.T. @ 10 FT				
150	15					
145	20					
140	25					
135	30					
130	35					
125	40					

RAMP A
STA. 13+00
25.5 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 167.80 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-102

ELEV IN FEET	DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
168	0	Firm to very dense brown and red silty sand	1	13	A-2-4 (0)	-200=24.5 LL=NP MC=13 PI=NP
			2	15	A-2-4 (0)	-200=25.5 LL=17 MC=12 PI=1
			3	53	A-2-4 (0)	-200=14.6 LL=NP MC=9 PI=NP
163	5	Dense light red sand w/ silt	4	40		
158	10	Dense red and light red silty sand	5	43		
		B.T. @ 10 FT				
153	15					
148	20					
143	25					
138	30					
133	35					
128	40					

RAMP A
STA. 16+00
25.5 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 171.76 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-103

ELEV IN FEET	DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
172	0	6" Topsoil Firm red silty sand w/ trace shell	1	18	A-2-4 (0)	-200=33.3 LL=17 MC=13 PI=2
		Firm red clayey sand	2	15	A-2-4 (0)	-200=31.4 LL=21 MC=14 PI=5
			3	50	A-2-4 (0)	-200=15.6 LL=NP MC=11 PI=NP
167	5	Dense to very dense red and brown silty sand	4	63		
		Firm red and white silty sand	5	24		
162	10	B.T. @ 10 FT				
157	15					
152	20					
147	25					
142	30					
137	35					
132	40					

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET NO. OF	PROJECT NUMBER: IM-I010(320)
GEOTECHNICAL ENGINEERING-TESTING, INC.	PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS
APPROVED : CURT DOYLE, P.E.	
GEOTECHNICAL ENGINEER	
DATE :	COUNTY: BALDWIN
DIVISIONS MATERIAL ENGINEER	
APPROVED: DATE :	TEST BORING RECORD

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP A
STA. 19+00
BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
BORING DEPTH: 10 FT.
BORING ELEV.: 175.88 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-104

REMARKS:

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
176	0		3" Topsoil	1	9	A-2-4 (0)	-200=26.8 LL=17 MC=12 PI=5
			Loose to firm red and brown silty sand	2	13	A-2-4 (0)	-200=26.0 LL=NP MC=13 PI=NP
			Very dense red and brown silty sand (wet)	3	55	A-2-4 (0)	-200=17.7 LL=NP MC=14 PI=NP
171	5		Very dense brown and red silty sand w/ clayey sand lens	4	78		
			Dense light red and light brown silty sand	5	38		
166	10		B.T. @ 10 FT				
161	15						
156	20						
151	25						
146	30						
141	35						
136	40						

RAMP A
STA. 22+00
40 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
BORING DEPTH: 15 FT.
BORING ELEV.: 171.65 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-105

REMARKS:

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
172	0		Loose brown silty sand	1	6		
			Loose brown clayey sand	2	9	A-2-4 (0)	-200=29.4 LL=18 MC=13 PI=2
			Loose light red silty sand w/ weak red and light gray clay lenses	3	24	A-4 (0)	-200=51.6 LL=23 MC=14 PI=6
167	5		Firm weak red, yellow and light gray clayey sand	4	37		
162	10		Dense to very dense light red, brown and red silty sand	5	43	A-2-4 (0)	-200=11.1 LL=NP MC=6 PI=NP
157	15		B.T. @ 15 FT	6	61		
152	20						
147	25						
142	30						
137	35						
132	40						

RAMP A
STA. 22+00
BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
BORING DEPTH: 10 FT.
BORING ELEV.: 177.81 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-106

REMARKS:

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
178	0		4" Topsoil	1	6	A-2-4 (0)	-200=31.7 LL=18 MC=16 PI=2
			Loose red and brown clayey sand	2	18	A-2-4 (0)	-200=31.5 LL=27 MC=15 PI=9
			Firm red and brown silty sand w/ red and light gray clay lens	3	28		
173	5		Firm to dense red and brown silty sand	4	45		
			Dense red and yellow silty sand w/ clay lenses	5	40		
168	10		B.T. @ 10 FT				
163	15						
158	20						
153	25						
148	30						
143	35						
138	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET NO. OF	PROJECT NUMBER: IM-I010(320)
GEOTECHNICAL ENGINEERING-TESTING, INC.	PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS
APPROVED : CURT DOYLE, P.E.	
GEOTECHNICAL ENGINEER	
DATE :	COUNTY: BALDWIN
DIVISIONS MATERIAL ENGINEER	
APPROVED:	TEST BORING RECORD
DATE :	

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP A
STA. 25+00
BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 177.83 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-107

ELEV IN FEET	DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
178	0	6" Topsoil Firm brown and red clayey sand	1	12	A-2-4 (0)	-200=32.5 LL=19 MC=18 PI=3
		Firm dark brown and red silty sand w/ weak red and light gray silty clay lens	2	20		
			3	27	A-2-4 (0)	-200=19.5 LL=NP MC=12 PI=NP
173	5	Firm to dense red, brown and light gray silty sand w/ clay lenses	4	36		
168	10	Dense red and light red sand w/ yellow clay layer	5	36	A-2-4 (0)	-200=24.3 LL=20 MC=15 PI=7
163	15	Firm red and white sand w/ silt	6	30		
158	20	Firm brownish yellow silty sand w/ trace sandstone	7	20		
		B.T. @ 20 FT				
153	25					
148	30					
143	35					
138	40					

RAMP A
STA. 28+00
BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 170.50 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-108

ELEV IN FEET	DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
171	0	Very stiff red and brown sandy clay	1	20	A-6 (5)	-200=45.4 LL=39 MC=19 PI=20
			2	30	A-2-7 (3)	-200=33.9 LL=47 MC=16 PI=24
		Firm red and brown clayey sand	3	25	A-7-6 (6)	-200=48.0 LL=45 MC=17 PI=20
166	5		4	24		
		Firm red, brown and yellow silty sand				
161	10		5	23	A-2-4 (0)	-200=27.5 LL=NP MC=15 PI=NP
156	15	Firm pink and light yellow sand w/ silt	6	19	A-3 (0)	-200=9.4 LL=NP MC=9 PI=NP
151	20		7	24		
		B.T. @ 20 FT				
146	25					
141	30					
136	35					
131	40					

RAMP A
STA. 28+00
50 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 178.73 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-109

ELEV IN FEET	DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
179	0	Firm dark brown clayey sand w/ organics	1	11		
		Firm red, brown and yellow clayey sand w/ trace organics at 1.5 ft	2	16	A-6 (2)	-200=36.9 LL=33 MC=13 PI=18
			3	13		
174	5	Firm red and yellowish brown clayey sand	4	11	A-7-6 (4)	-200=38.0 LL=52 MC=17 PI=23
169	10	Firm weak red, light gray and yellow clay	5	25	A-7-6 (59)	-200=99.1 LL=77 MC=26 PI=51
164	15	Firm light gray, weak red and yellow clayey sand	6	14	A-4 (0)	-200=60.6 LL=22 MC=22 PI=3
159	20	Firm weak red and white sand w/ silt	7	29		
		B.T. @ 20 FT				
154	25					
149	30					
144	35					
139	40					

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET NO. OF	PROJECT NUMBER: IM-I010(320)
GEOTECHNICAL ENGINEERING-TESTING, INC.	PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS
APPROVED : CURT DOYLE, P.E.	
GEOTECHNICAL ENGINEER	
DATE :	COUNTY: BALDWIN
DIVISIONS MATERIAL ENGINEER	
APPROVED:	TEST BORING RECORD
DATE :	

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP A
STA. 31+00
60 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 175.17 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-110

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
175	0		Firm yellowish brown and brown clayey sand	1	14	A-6 (3)	-200=50.2 LL=24 MC=13 PI=12
			Firm red and yellowish brown silty sand w/ trace clay	2	17		
			Firm red, brown and light gray clayey sand	3	11	A-2-6 (0)	-200=31.1 LL=28 MC=14 PI=12
170	5			4	20		
			Firm light red fine sand w/ silt	5	28		
165	10						
			Very stiff grayish brown silty clay	6	24		
160	15		Firm red clayey sand				
			Firm light red fine sand	7	16	A-3 (0)	-200=8.0 LL=NP MC=22 PI=NP
155	20		B.T. @ 20 FT				
150	25						
145	30						
140	35						
135	40						

RAMP A
STA. 31+00
10 FT RT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 180.92 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-111

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
181	0		Medium consistency brown and red sandy clay	1	7	A-6 (3)	-200=50.2 LL=24 MC=16 PI=13
			Firm red, yellow, light gray and brown clayey sand	2	16	A-6 (1)	-200=35.9 LL=26 MC=15 PI=12
			Firm red, white and pink silty sand w/ small amount of clay	3	20		
176	5		Firm light red, light gray and yellow clayey sand	4	15		
			Dense red and brown silty sand	5	43		
171	10						
				6	8	A-6 (5)	-200=54.4 LL=30 MC=17 PI=15
166	15		Stiff to hard grayish brown sandy clay				
				T-1		A-2-4 (0)	-200=15.6 LL=NP MC=24 PI=NP
161	20		Dense red silty sand	7	35		
			B.T. @ 20 FT				
156	25						
151	30						
146	35						
141	40						

RAMP A
STA. 34+00
BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 190.91 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-112

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
191	0		5" Topsoil	1	13	A-6 (5)	-200=47.7 LL=34 MC=19 PI=18
			Stiff to hard red and brown sandy clay	2	39	A-7-6 (6)	-200=46.9 LL=43 MC=18 PI=21
			Very stiff red sandy clay w/ trace sandstone	3	21		
186	5			4	28		
			Firm red clayey sand				
181	10			5	29		
			B.T. @ 10 FT				
176	15						
171	20						
166	25						
161	30						
156	35						
151	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET NO. OF	PROJECT NUMBER: IM-I010(320)
GEOTECHNICAL ENGINEERING-TESTING, INC.	PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS
APPROVED : CURT DOYLE, P.E.	
GEOTECHNICAL ENGINEER	
DATE :	COUNTY: BALDWIN
DIVISIONS MATERIAL ENGINEER	
APPROVED:	TEST BORING RECORD
DATE :	

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP A
STA. 37+00
BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 202.12 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-113

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
202	0		4" Asphalt				
			Dense red and brown silty sand w/ small amount of gravel	1	34		
			Firm red and brown clayey sand	2	22	A-2-4 (0)	-200=31.3 LL=19 MC=14 PI=5
			Very stiff red and brown sandy clay	3	18	A-6 (4)	-200=49.5 LL=31 MC=15 PI=16
197	5			4	23		
			Firm brown and red clayey sand				
192	10			5	27		
			B.T. @ 10 FT				
187	15						
182	20						
177	25						
172	30						
167	35						
162	40						

RAMP A
STA. 40+00
BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 209.19 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-114

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
209	0		3" Topsoil				
			Firm brown and red silty sand w/ small amount of gravel and shell	1	19	A-2-4 (0)	-200=18.7 LL=NP MC=12 PI=NP
				2	16	A-2-4 (0)	-200=29.4 LL=19 MC=12 PI=5
				3	10		
204	5		Stiff red and brown sandy clay	4	12		
			Firm red clayey sand				
199	10			5	16		
			B.T. @ 10 FT				
194	15						
189	20						
184	25						
179	30						
174	35						
169	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET NO. OF	PROJECT NUMBER: IM-I010(320)
GEOTECHNICAL ENGINEERING-TESTING, INC.	PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS
APPROVED : CURT DOYLE, P.E.	
GEOTECHNICAL ENGINEER	
DATE :	COUNTY: BALDWIN
DIVISIONS MATERIAL ENGINEER	
APPROVED:	TEST BORING RECORD
DATE :	

ALABAMA DEPARTMENT OF TRANSPORTATION

1409 Coliseum Boulevard, Montgomery, Alabama 36110

Bureau of Materials and Tests

3700 Fairground Road, Montgomery, Alabama 36110
Phone (334)206-2200 FAX (334)264-6263

Robert Bentley
Governor

John R. Cooper
Transportation Director

November 15, 2016

Mr. William Adams, P.E.
Design Engineer
OFFICE

ATTN: **Mr. Sean Frank, P.E.**
Design Section Engineer

RE: **Project No.:** **IMF-I010(320)**
CPMS No.: **100050132**
Soil Survey
I-10/SR-181 Interchange Modifications to Diverging Diamond
MP 38.519 to MP 38.979
Baldwin County

Dear Mr. Adams:

Attached you will find a soil survey which gives the Region's recommendations for the design and construction of the above referenced project. After reviewing this information it is being forwarded with the approval of this Bureau.

Sincerely,

Scott W. George, P.E.
Materials and Tests Engineer

BY _____
Robert W. Shugart, Jr., P.E.
Materials Section Engineer

RWS/JPJ/AWS/jpj

cc: Mr. Stacey Glass, P.E.
Mr. Vincent E. Calametti, P.E.
Mr. Matthew Ericksen, P.E.
Mr. Ed Baldwin, P.E.
Mr. Skip Powe, P. E. (with attachment)
Ms. Theresa Barksdale, Quality Control Engineer
FHWA
Project File
File

ALABAMA DEPARTMENT OF TRANSPORTATION

1409 Coliseum Boulevard, Montgomery, Alabama 36110

Bureau of Materials and Tests

3700 Fairground Road, Montgomery, Alabama 36110
Phone (334)206-2200 FAX (334)264-6263

Robert Bentley
Governor

John R. Cooper
Transportation Director

November 14, 2016

MEMORANDUM

TO: Mr. Robert Shugart, P.E.
Materials Engineer

FROM: Ms. Kaye Chancellor Davis, P.E.
Geotechnical Engineer

BY: Mr. Renardo Dorsey, P.E. R.D.
Asst. Geotechnical Engineer

RE: PE Project No. IM-I010 (320)
CN Project No. IMF-I010 (320)
I-10/SR-181 Interchange Modifications to
Diverging Diamond
Baldwin County

Please be advised the Geotechnical Division of the Bureau of Materials and Tests and the Area Materials Engineer has reviewed and agrees with the recommendations contained in the Soil Survey Report as produced by GET. This Soil Survey is being submitted to the Bureau of Materials and Tests - Materials Engineer for approval and final distribution. The test boring logs are being transmitted to the Lead Designer, under separate cover, for inclusion in the final plan assembly.

AKCD:RLD:amb
Attachment

C: Mr. Ed Baldwin, P.E., Southwest Region Materials Engineer- Mobile
File

ALABAMA
DEPARTMENT OF TRANSPORTATION

SOUTHWEST REGION
OFFICE OF REGION ENGINEER
1701 I-65 WEST SERVICE ROAD NORTH
MOBILE, ALABAMA 36618-1109
TELEPHONE: (251) 470-8200
FAX (251) 473-3624

Robert Bentley
GOVERNOR

John R. Cooper
TRANSPORTATION DIRECTOR

November 7, 2016

Mr. Scott W. George, P.E.
Materials and Tests Engineer
Bureau of Materials and Tests
Alabama Department of Transportation
1409 Coliseum Boulevard
Montgomery, AL 36177-7867

Attention: Ms. Kaye Chancellor Davis, P.E.

Dear Sir:

RE: Project No. IM-I010(320)
I-10/SR-181 Interchange Modification to Diverging Diamond
Soils Survey Report
Baldwin County

This office has reviewed the final copy of the soils survey report per step 10 of the submittal procedures and concurs with the report as submitted.

If additional information is needed, please contact this office.

Sincerely,

Vincent E. Calametti, P.E., Region Engineer

By: _____
Edward L. Baldwin, P.E.
Materials & Tests Engineer – Mobile

VEC/elb
C: File

GEOTECHNICAL ENGINEERING TESTING, INC.

~ Geotechnical Evaluations ~ Construction Materials Testing ~ Geosciences ~ Infrastructure Management Services ~

SOILS SURVEY REPORT
PROJECT NO.: IM-I010 (320)
I-10/SR-181 INTERCHANGE MODIFICATION
TO DIVERGING DIAMOND
BALDWIN COUNTY

Professional Services Since 1974

904 Butler Drive, Mobile, AL 36693

251.666.7197 FAX: 251.666.7380

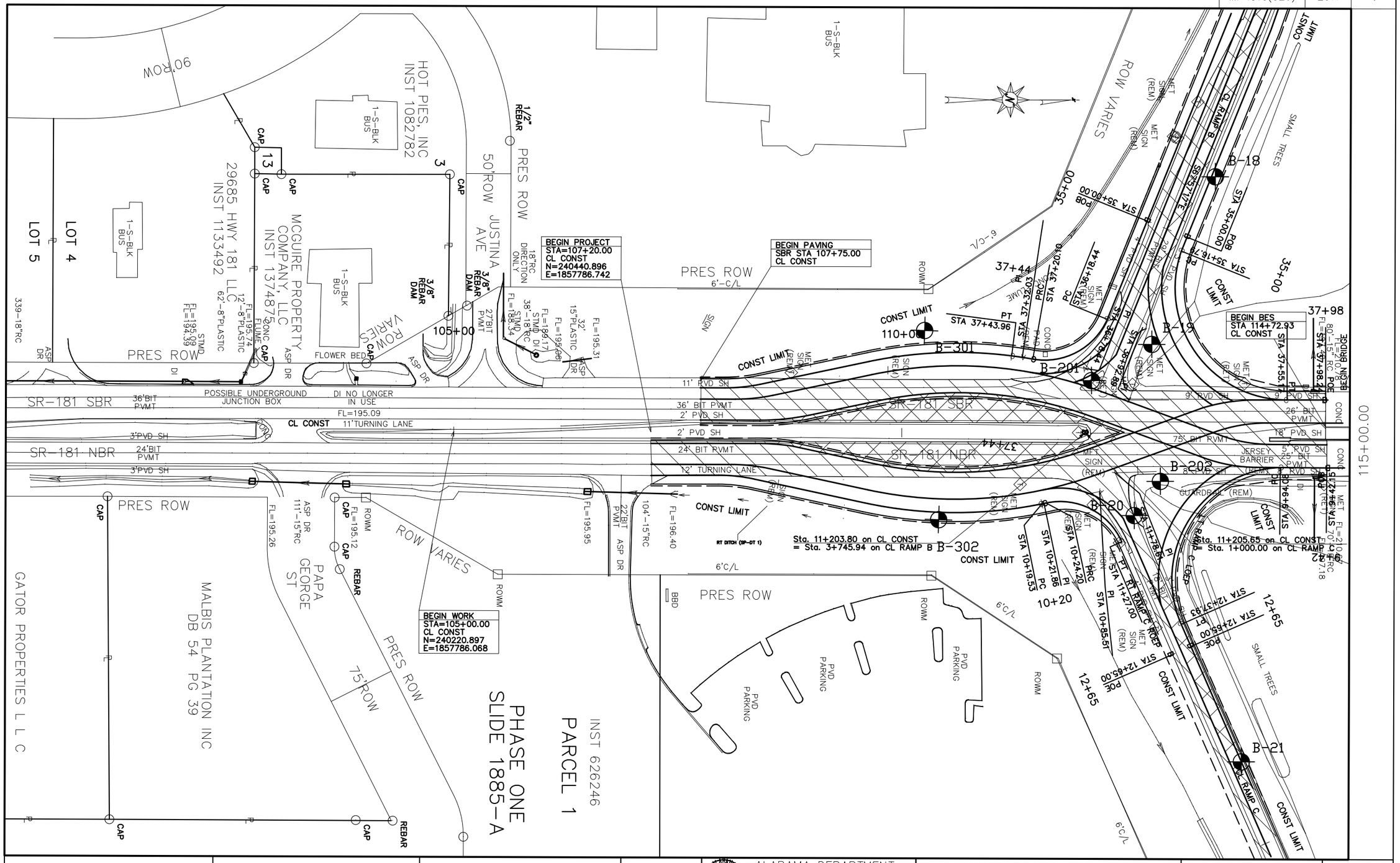
www.geoengr.com

APPENDIX E

BORING LOCATION PLAN AND PROFILE SHEETS

PLAN SHEET

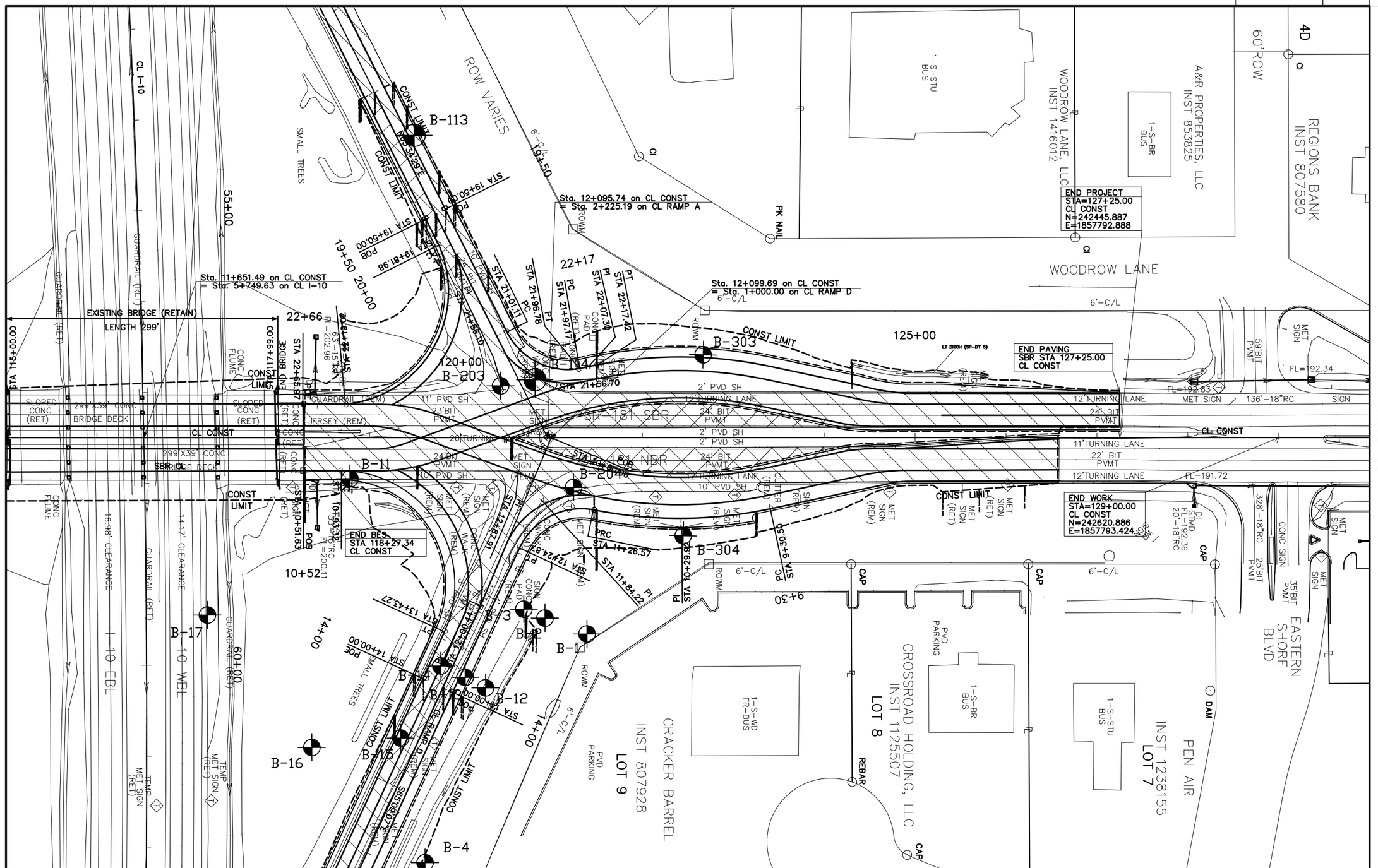
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
IM-I010(320)	2017	4



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION DESIGN BUREAU SECTION D2	HORIZ 50 0 50 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				PLAN SHEET	SR-181

PLAN SHEET

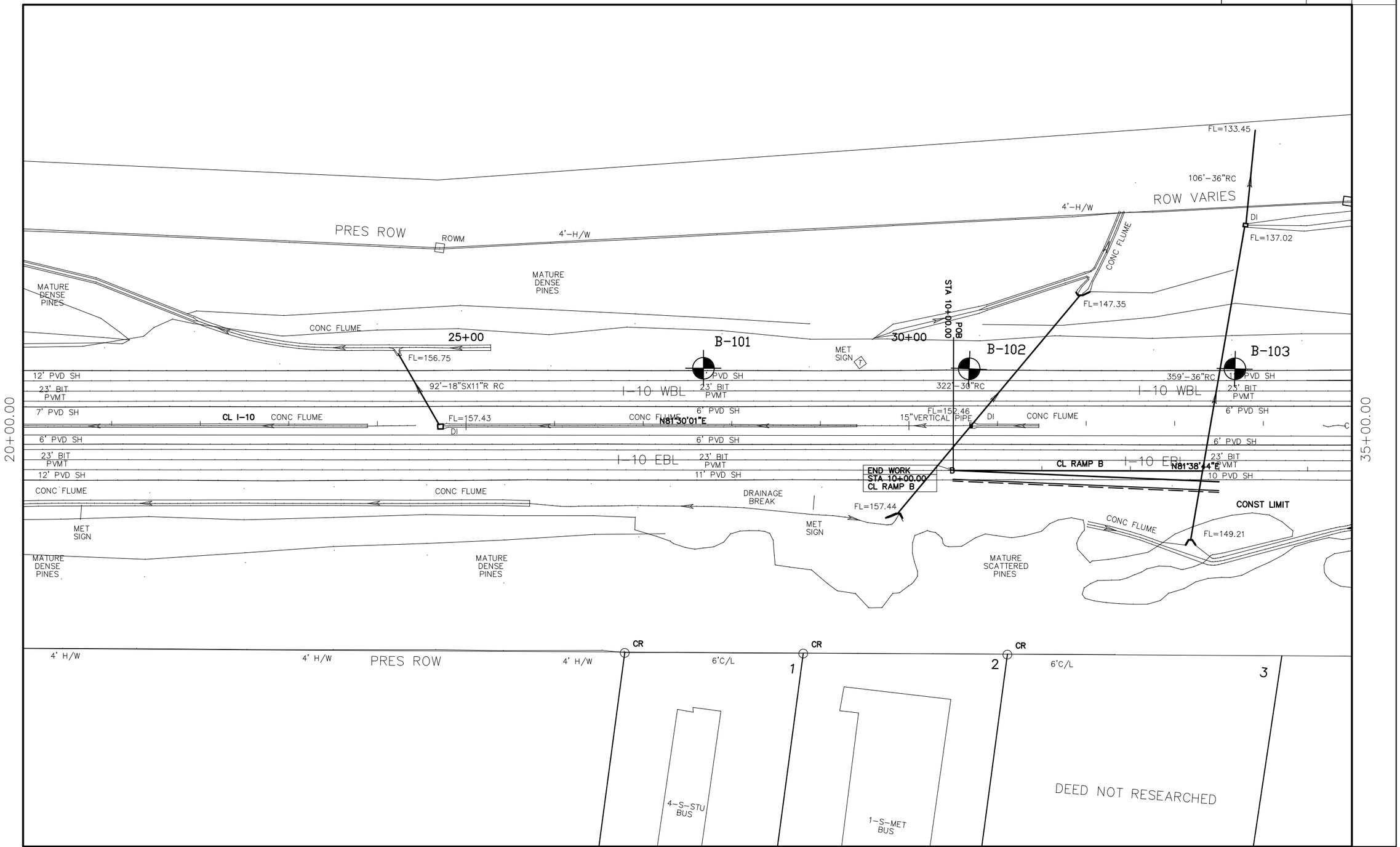
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
IM-I010(320)	2017	5



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION DESIGN BUREAU SECTION D2	HORIZ 50 0 50 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				PLAN SHEET	SR-181

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
IM-I010(320)	2017	6



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION DESIGN BUREAU SECTION D2	HORIZ 50 0 50 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				PLAN SHEET	I-10

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
IM-I010(320)	2017	7

INST 1250215

B5

1-S-BR RES

COMMON AREA

B6

B7

FL=124.59

4'-H/W

4'-H/W

PRES ROW

4'-H/W 6'-C/L

ROWM

CONC FLUME

CONC FLUME

STA 10+00.00 PBB

MATURE DENSE PINES

B-110

B-108

B-111

B-107

B-105

B-106

B-109

B-104

PI STA 19+74.34

40+00

45+00

725'-6'x5'CS

10' PVD SH

12'TURNING LANE

23' BIT PVMT

CL RAMP A

15+00

20+00

I-10 WBL

25+00

PI STA 12+70.35

35+00.00

50+00.00

FL=168.24

DI

CL I-10

CONC FLUME

DI FL=175.20

6' PVD SH

CONC FLUME

6' PVD SH

23' BIT PVMT

I-10 EBL

10' PVD SH

112'-15"BCCM

CL RAMP B

120'-15"BCCM

N87°22'51"E

DI

PI STA 28+35.70

88'-44"SX27"R RC

DECEL LANE

CONST LIMIT

MET SIGN

MET SIGN (RET)

97'-44"SX27"R RC

CONST LIMIT

374'-30"RC FL=151.89

FL=171.27

FL=149.62

FL=177.26

MATURE SCATTERED PINES

CONC FLUME

MATURE SCATTERED PINES

PC STA 15+50.00

PT STA 23+98.28

PC STA 25+06.97

FL=153.69

CONC FLUME

CAP

CAP

18'-72" RC

6'-C/L

ROWM

FL=153.53

STMD

PRES ROW

37'-72" RC

STMD

FL=153.50

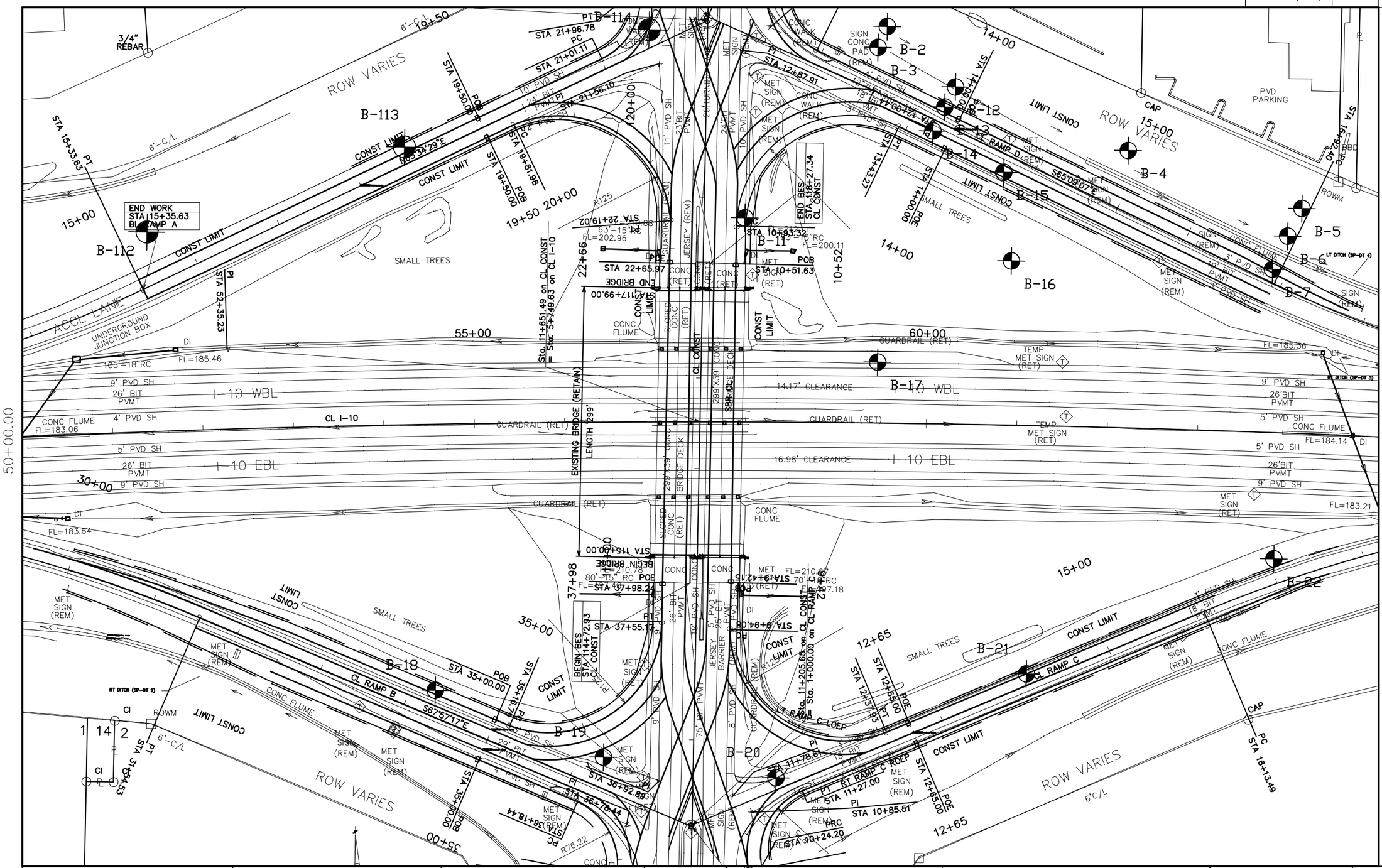
MYERS FAMILY LIMITED PARTNERSHIP INST 1071501

ESFAHANI REAL ESTATE HOLDING OF ALABAMA, LLC INST 973341

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION DESIGN BUREAU SECTION D2	HORIZ 50 0 50 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				PLAN SHEET	I-10

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
IM-I010(320)	2017	8



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION DESIGN BUREAU SECTION D2	HORIZ 50 0 50 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				PLAN SHEET	I-10

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
IM-I010(320)	2017	9

1-S-STU BUS
PVD PARKING
STA 21+35.95 (RT)
STA 24+78.86 POE
6'-C/L
BBD
PRES ROW
ROWM
20+00
LT DITCH (SP-DT 4)
END WORK
STA 19+20.00
CL RAMP D
CONST LIMIT
MET SIGN (RET)
SIGN (RET)
DECEL LANE
SMALL TREES
CONC FLUME
B-8
B-9
S85°11'39"E
CL RAMP D
MP#39
B-10
26' PVMT
6' PVD SH
DI
CL I-10
FL=179.49
PT STA 69+63.13
I-10 WBL
S86°52'50"E
CONC FLUME
5' PVD SH
24' PVMT
11' TURNING LANE
9' PVD SH
PC STA 71+24.81
108'-18"Sx11"R RC
FL=178.34
MP#39
PI STA 19+67.00
CL RAMP C
I-10 EBL
97' 36"Sx32"R RC
CONST LIMIT
END WORK
STA 19+82.38
CL RAMP C
PT STA 23+07.84
STA 23+55.30 POE
FL=182.54
MATURE DENSE PINES
4'-H/W
6'C/L
ROWM
CAP
PRES ROW
14
C2
1-S-BR RES BUILDING NOT SHOWN
C1
1-S-WD-FR RES
13
1-S-BR RES
12
DEED NOT RESEARCHED
1-S-WD-FR RES
11
DEED NOT RESEARCHED
1-S-WD-FR RES
PRES ROW
HISTORIC MALBIS
PHASE TWO
SLIDE 2281-B
ROW VARIES
75+00
STA 74+70.93 PT
STA 79+31.89 POE
PVMT UNDER CONSTRUCTION
LANES UNEVEN
CONC FLUME
S84°52'41"E
FL=171.15
105'-18"SX11"R-RC
FL=170.56
STA 77+67.99 PT
1 2 3 4 5 6 7 8 9 10 11 12 13 14
C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16
1-S-WD-FR RES
ROW VARIES
50' ROW
PRES ROW
65+00.00
79+31.89

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION DESIGN BUREAU SECTION D2	HORIZ 50 0 50 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				PLAN SHEET	I-10

APPENDIX F

LOGS OF BORING

PROJECT NO.	FISCAL YEAR	SHEET NO.

SR-181
STA. 110+26
114 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, PH, CS(LOGGER)
DATE DRILLED: 9/29/16
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 197 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-301

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
197	0		3" Topsoil				
			Medium consistency red sandy clay w/ trace of gravel	1	8		
			Stiff consistency red & brown sandy clay	2	12		MC=12
				3	14		
192	5		Loose red & light brown clayey sand	4	9		MC=16
187	10		Very stiff consistency red sandy clay	5	24		MC=17
182	15		Firm red silty, clayey sand w/ trace of ironstone	6	23		
			Firm red silty sand				
177	20			7	16		
			B.T. @ 20 FT				
172	25						
167	30						
162	35						
157	40						

SR-181
STA. 110+41
97 FT RT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, PH, CS(LOGGER)
DATE DRILLED: 9/29/16
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 197.5 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-302

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
198	0		3" Topsoil				
			Firm brown silty sand	1	12		
			Stiff consistency red sandy clay	2	13		MC=16
				3	11		
193	5		Brown & red sandy clay w/ small amount of sandstone	4	11		MC=22
188	10		Very stiff consistency red w/ light brown sandy clay	5	19		
183	15		Firm red silty, clayey sand w/ trace of ironstone	6	17		
178	20			7	14		
			B.T. @ 20 FT				
173	25						
168	30						
163	35						
158	40						

SR-181
STA. 112+12
58 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: MUD ROTARY
DRILL CREW: SM, CS, VS(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 30 FT.
BORING ELEV.: 209.24 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-201

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
209	0		5" Topsoil				
			Firm red silty sand	1	14		
				2	19	A-2-4 (0)	-200=26.6 LL=21 MC=14 PI=9
				3	13		
204	5		Firm to loose red and brown clayey sand	4	9		
				T-1		A-6 (5)	-200=46.8 LL=34 MC=15 PI=19
199	10			5	27		
194	15		Firm red and brown clayey sand	6	18		
189	20			7	30	A-6 (5)	-200=49.1 LL=37 MC=22 PI=18
184	25		Firm to very dense red silty sand	8	29		
179	30			9	52		
			B.T. @ 30 FT				
174	35						
169	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 1 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

SR-181
STA. 112+88
54 FT RT OF CL

DRILL RIG: SIMCO 2800
DRILL METHOD: MUD ROTARY
DRILL CREW: SW, CS, VS(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 30 FT.
BORING ELEV.: 210.84 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-202

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
211	0		3" Topsoil Firm red clayey sand w/ shell	1	19		
				2	16		
				3	11		
206	5			4	11	A-6 (3)	-200=46.3 LL=28 MC=16 PI=15
			Firm red, brown and gray sandy clay				
201	10			5	11		
196	15			6	6		
			Loose red and brown clayey sand	T-1		A-6 (3)	-200=44.4 LL=27 MC=17 PI=15
191	20			7	8		
			Very stiff red silty clay w/ trace small gravel	8	30		
186	25						
			Firm red and brown silty sand	9	22		
181	30		B.T. @ 30 FT				
176	35						
171	40						

SR-181
STA. 120+44
57 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: MUD ROTARY
DRILL CREW: SM, CS, VS(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 30 FT.
BORING ELEV.: 210.19 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-203

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
210	0		5" Topsoil Firm red silty sand w/ gravel	1	15		
				2	16		
				3	16		
205	5			4	17	A-6 (5)	-200=50.3 LL=32 MC=19 PI=17
			Very stiff red sandy clay				
200	10			5	16		
				T-1		A-6 (5)	-200=52.8 LL=32 MC=17 PI=16
195	15			6	26		
			Dense red, brown and light gray clayey sand	7	49		
190	20						
			Dense red clayey sand w/ small amount of gravel	8	34		
185	25						
			Firm red silty sand w/ trace gravel	9	29		
180	30		B.T. @ 30 FT				
175	35						
170	40						

SR-181
STA. 121+24
55 FT RT OF CL

DRILL RIG: SIMCO 2800
DRILL METHOD: MUD ROTARY
DRILL CREW: SM, CS, VS(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 30 FT.
BORING ELEV.: 208.01 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-204

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
208	0		3" Topsoil Firm red silty sand w/ asphalt	1	16		
			Firm to loose red clayey sand w/ trace shell and asphalt	2	23	A-4 (0)	-200=41.4 LL=20 MC=15 PI=8
				T-1			
203	5			3	8		
				4	10		
198	10			5	10	A-6 (4)	-200=48.1 LL=27 MC=14 PI=16
			Firm red, light gray and brown clayey sand				
193	15			6	25		
				7	25	A-6 (4)	-200=40.2 LL=39 MC=18 PI=23
188	20						
			Dense to firm red silty sand w/ trace clay	8	40		
183	25						
				9	25		
178	30		B.T. @ 30 FT				
173	35						
168	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 2 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

SR-181
STA. 122+45
108 FT RT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, PH, CS(LOGGER)
DATE DRILLED: 9/29/16
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 199.4 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-304

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
199	0		3" Topsoil				
			Stiff consistency red sandy clay w/ dark brown clayey sand	1	14		
				2	10		MC=12
				3	9		MC=18
194	5			4	11		MC=17
			Stiff to very stiff consistency light brown & red sandy clay				
189	10			5	19		
			Dense red silty, clayey sand w/ trace of sandstone	6	32		
184	15						
			Dense red clayey sand w/ trace of sandstone	7	33		
179	20		B.T. @ 20 FT				
174	25						
169	30						
164	35						
159	40						

SR-181
STA. 122+67
91 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, PH, CS(LOGGER)
DATE DRILLED: 9/29/16
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 199 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-303

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
199	0		3" Topsoil				
			Firm red clayey sand	1	27		
			Stiff consistency dark brown & brown sandy clay	2	12		MC=13
				3	11		MC=17
194	5			4	20		MC=17
			Stiff to very stiff consistency red & light brown sandy clay				
189	10			5	28		
				6	26		
184	15		Firm red clayey sand				
				7	30		
179	20		B.T. @ 20 FT				
174	25						
169	30						
164	35						
159	40						

RAMP A
STA. 12+40
138 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 175.17 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-110

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
175	0		Firm yellowish brown and brown clayey sand	1	14	A-6 (3)	-200=50.2 LL=24 MC=13 PI=12
			Firm red and yellowish brown silty sand w/ trace clay	2	17		
			Firm red, brown and light gray clayey sand	3	11	A-2-6 (0)	-200=31.1 LL=28 MC=14 PI=12
170	5			4	20		
			Firm light red fine sand w/ silt				
165	10			5	28		
			Very stiff grayish brown silty clay				
				6	24		
160	15		Firm red clayey sand				
			Firm light red fine sand	7	16	A-3 (0)	-200=8.0 LL=NP MC=22 PI=NP
155	20		B.T. @ 20 FT				
150	25						
145	30						
140	35						
135	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 3 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP A
STA. 12+43
78 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 180.92 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-111

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
181	0		Medium consistency brown and red sandy clay	1	7	A-6 (3)	-200=50.2 LL=24 MC=16 PI=13
			Firm red, yellow, light gray and brown clayey sand	2	16	A-6 (1)	-200=35.9 LL=26 MC=15 PI=12
			Firm red, white and pink silty sand w/ small amount of clay	3	20		
176	5		Firm light red, light gray and yellow clayey sand	4	15		
171	10		Dense red and brown silty sand	5	43		
166	15		Stiff to hard grayish brown sandy clay	6	8	A-6 (5)	-200=54.4 LL=30 MC=17 PI=15
				T-1		A-2-4 (0)	-200=15.6 LL=NP MC=24 PI=NP
161	20		Dense red silty sand	7	35		
			B.T. @ 20 FT				
156	25						
151	30						
146	35						
141	40						

RAMP A
STA. 15+62
55 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 190.91 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-112

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
191	0		5" Topsoil	1	13	A-6 (5)	-200=47.7 LL=34 MC=19 PI=18
			Stiff to hard red and brown sandy clay	2	39	A-7-6 (6)	-200=46.9 LL=43 MC=18 PI=21
			Very stiff red sandy clay w/ trace sandstone	3	21		
186	5			4	28		
			Firm red clayey sand				
181	10			5	29		
			B.T. @ 10 FT				
176	15						
171	20						
166	25						
161	30						
156	35						
151	40						

RAMP A
STA. 18+60
17 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 202.12 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-113

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
202	0		4" Asphalt				
			Dense red and brown silty sand w/ small amount of gravel	1	34		
			Firm red and brown clayey sand	2	22	A-2-4 (0)	-200=31.3 LL=19 MC=14 PI=5
			Very stiff red and brown sandy clay	3	18	A-6 (4)	-200=49.5 LL=31 MC=15 PI=16
197	5			4	23		
			Firm brown and red clayey sand				
192	10			5	27		
			B.T. @ 10 FT				
187	15						
182	20						
177	25						
172	30						
167	35						
162	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 4 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP A
STA. 21+60
17 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 209.19 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-114

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
209	0		3" Topsoil				
			Firm brown and red silty sand w/ small amount of gravel and shell	1	19	A-2-4 (0)	-200=18.7 LL=NP MC=12 PI=NP
				2	16	A-2-4 (0)	-200=29.4 LL=19 MC=12 PI=5
				3	10		
204	5		Stiff red and brown sandy clay	4	12		
			Firm red clayey sand	5	16		
199	10		B.T. @ 10 FT				
194	15						
189	20						
184	25						
179	30						
174	35						
169	40						

RAMP B
STA. 34+30
28 FT LT OF BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SM, VS, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 202.92 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-18

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
203	0		3.0" Topsoil				
			Firm red & dark brown silty sand	1	14	A-2-4 (0)	-200=26.0 LL=NP MC=12 PI=NP
			Firm red clayey sand	2	14	A-6 (2)	-200=40.3 LL=26 MC=15 PI=15
				3	16		
198	5		Very stiff to stiff red & brown clay w/ sand	4	12		
			Very stiff yellowish brown & light gray clay	5	29		
193	10		B.T. @ 10 FT				
188	15						
183	20						
178	25						
173	30						
168	35						
163	40						

RAMP B
STA. 36+28
32 FT LT OF BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SM, VS, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 206.27 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-19

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
206	0		3.0" Topsoil				
			Firm brown & red silty sand	1	16	A-2-4 (0)	-200=25.1 LL=NP MC=11 PI=NP
			Firm red & gray clayey sand	2	17	A-2-4 (0)	-200=32.9 LL=23 MC=13 PI=10
			Stiff red & light gray sandy clay	3	13		
201	5			4	13		
			Stiff to very stiff red clay				
196	10		B.T. @ 10 FT	5	23		
191	15						
186	20						
181	25						
176	30						
171	35						
166	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 5 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP C
STA. 11+05
11 FT LT OF BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 207.95 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-20

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
208	0		5.0" Topsoil				
			Dense dark brown & red clayey sand	1	33	A-2-4 (0)	-200=35.3 LL=18 MC=9 PI=7
				2	30		
			Firm dark brown & red clayey sand w/ trace rock	3	12		
203	5		Very stiff red sandy clay	4	18		
			Very stiff light brown & red silty clay	5	18		
198	10		B.T. @ 10 FT				
193	15						
188	20						
183	25						
178	30						
173	35						
168	40						

RAMP C
STA. 14+08
26 FT LT OF BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 198.39 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-21

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
198	0		5.0" Topsoil				
			Firm dark brown & red clayey sand	1	14		
			Firm dark brown & red clayey sand	2	17		
				3	15	A-6 (1)	-200=36.9 LL=31 MC=16 PI=14
193	5		Firm red clayey sand	4	20		
			Stiff light gray silty sandy clay	5	10		MC=21
188	10		B.T. @ 10 FT				
183	15						
178	20						
173	25						
168	30						
163	35						
158	40						

RAMP C
STA. 17+05
36 FT LT OF BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 193.11 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-22

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
193	0		5.0" Topsoil				
			Firm dark brown & red clayey sand	1	12		
			Firm red clayey sand	2	10		
			Very stiff red & light gray clay	3	20		
188	5		Hard red sandy clay	4	32		
			Firm red silty sand	5	17		
183	10		B.T. @ 10 FT				
178	15						
173	20						
168	25						
163	30						
158	35						
153	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 6 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP D
STA. 11+09
8 FT RT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 213.18 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-11

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
213	0		3.0" Topsoil Firm red & light brown silty sand	1	24	A-2-4 (0)	-200=24.0 LL=NP MC=7 PI=NP
				2	20		
				3	12		
208	5		Firm red clayey sand	4	15		
				5	14		
203	10		B.T. @ 10 FT				
198	15						
193	20						
188	25						
183	30						
178	35						
173	40						

RAMP D
STA. 11+85
120 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 197.68 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-1

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
198	0		4.0" Topsoil Dense dark brown & red clayey sand	1	60	A-6 (2)	-200=47.7 LL=23 MC=8 PI=12
				2	23		
				3	10	A-6 (3)	-200=47.3 LL=27 MC=15 PI=15
193	5		Firm brown & red clayey sand	4	16		
				5	22		
188	10		Very stiff red sandy clay				
				6	24		
183	15		Firm red clayey sand				
				7	32		
178	20		Dense orange, red & light brown fine sand B.T. @ 20 FT				
173	25						
168	30						
163	35						
158	40						

RAMP D
STA. 11+85
46 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 198.64 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-3

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
199	0		4.0" Topsoil Firm brown & red clayey sand	1	23		
				2	23	A-6 (3)	-200=47.9 LL=26 MC=11 PI=13
				3	13	A-6 (4)	-200=50.9 LL=29 MC=17 PI=16
194	5		Stiff to very stiff yellowish brown & red sandy clay	4	22		
				5	28		
189	10		Very stiff red & light gray sandy clay Hard red sandy clay				
				6	32		
184	15		Dense red clayey sand				
				7	21		
179	20		Firm orange, light brown & red fine to medium sand B.T. @ 20 FT				
174	25						
169	30						
164	35						
159	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 7 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP D
STA. 11+85
73 FT LT OF BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 198.87 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-2

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
199	0		5.0" Topsoil Dense dark brown & red clayey sand	1	47		
				2	24	A-6 (1)	-200=42.1 LL=22 MC=10 PI=12
			Firm brown & red clayey sand	3	14		
194	5			4	23	A-6 (5)	-200=48.1 LL=34 MC=18 PI=18
				5	26		
189	10		Very stiff red sandy clay				
				6	26		
184	15						
			Dense red sand	7	31		
179	20		B.T. @ 20 FT				
174	25						
169	30						
164	35						
159	40						

RAMP D
STA. 12+80
12 FT RT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 203.82 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-14

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
204	0		4.0" Topsoil Firm dark brown & red silty sand	1	23	A-2-4 (0)	-200=31.8 LL=NP MC=8 PI=NP
			Firm dark red & brown clayey sand w/ trace sandstone	2	26		
				3	23		
199	5		Firm red clayey sand	4	29	A-6 (4)	-200=43.9 LL=29 MC=13 PI=18
				5	22		
194	10		Very stiff to hard red & brown sandy clay				
				6	43		
189	15		B.T. @ 15 FT				
184	20						
179	25						
174	30						
169	35						
164	40						

RAMP D
STA. 12+80
17.5 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/9/08
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 202.22 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-13

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
202	0		6.0" Topsoil Very stiff brown & red clayey sand	1	20	A-2-4 (0)	-200=31.0 LL=21 MC=10 PI=5
			Firm red silty sand w/ trace clay & gravel	2	22	A-2-4 (0)	-200=24.0 LL=21 MC=13 PI=7
			Firm red & brown clayey sand	3	20	A-4 (0)	-200=37.5 LL=25 MC=15 PI=10
197	5		Dense red clayey sand	4	30	A-2-6 (0)	-200=34.4 LL=25 MC=12 PI=12
				5	25		
192	10		Very stiff to hard red & brown sandy clay				
				6	31		
187	15		B.T. @ 15 FT				
182	20						
177	25						
172	30						
167	35						
162	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 8 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP D
STA. 12+80
43.5 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/9/08
BORING DEPTH: 15 FT.
BORING ELEV.: 197.22 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-12

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
197	0		5.0" Topsoil Firm red silty sand	1	11		
			Hard red sandy clay	2	30	A-6 (4)	-200=51.7 LL=29 MC=14 PI=14
				3	17		
192	5			4	35	A-6 (2)	-200=43.1 LL=34 MC=20 PI=13
			Firm to dense red & brown clayey sand				
				5	39		
187	10						
			Hard red sandy clay				
				6	37		
182	15		B.T. @ 15 FT				
177	20						
172	25						
167	30						
162	35						
157	40						

RAMP D
STA. 13+70
18 FT RT OF BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SM, VS, CS(LOGGER)
DATE DRILLED: 6/7/08
BORING DEPTH: 15 FT.
BORING ELEV.: 201.18 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-15

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
201	0		4.0" Topsoil Dense to firm red clayey sand	1	34		
				2	24		
				3	18		
196	5		Firm to dense red clayey sand	4	34		
				5	29		
191	10		Very stiff to hard red sandy clay				
				6	30		
186	15		B.T. @ 15 FT				
181	20						
176	25						
171	30						
166	35						
161	40						

RAMP D
STA. 14+20
103 FT RT OF BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
BORING DEPTH: 10 FT.
BORING ELEV.: 194.43 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-16

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
194	0		6.0" Topsoil Firm dark brown & red clayey sand	1	15	A-6 (3)	-200=47.9 LL=25 MC=17 PI=15
				2	24		
				3	24	A-6 (6)	-200=48.6 LL=35 MC=18 PI=19
189	5		Firm red & brown clayey sand	4	28		
				5	22		
184	10		B.T. @ 10 FT				
179	15						
174	20						
169	25						
164	30						
159	35						
154	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 9 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP D
STA. 14+82
63 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 196.87 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-4

NORTH: EAST:

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
197	0		4.0" Topsoil Firm brown & red clayey sand	1	22	A-4 (0)	-200=45.6 LL=21 MC=9 PI=6
			Very stiff brown & red sandy clay	2	19	A-6 (4)	-200=50.9 LL=29 MC=15 PI=16
			Firm red clayey sand w/ roots	3	10	A-6 (4)	-200=47.9 LL=29 MC=17 PI=16
192	5			4	19		
187	10		Very stiff red sandy clay	5	26		
182	15		B.T. @ 15 FT	6	20		
177	20						
172	25						
167	30						
162	35						
157	40						

RAMP D
STA. 16+84
13.5 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 192.89 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-7

NORTH: EAST:

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
193	0		5.0" Topsoil Firm brown & red clayey sand	1	17	A-2-4 (0)	-200=34.6 LL=19 MC=11 PI=9
				2	20	A-6 (3)	-200=44.7 LL=31 MC=17 PI=16
				3	24		
188	5			4	36	A-2-6 (1)	-200=34.6 LL=30 MC=16 PI=13
			Firm to dense red clayey sand				
183	10			5	45		
178	15		Dense red silty sand w/ trace clay	6	42		
			Dense light red sand	7	37		
173	20		B.T. @ 20 FT				
168	25						
163	30						
158	35						
153	40						

RAMP D
STA. 16+84
53.5 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/7/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 195.13 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-6

NORTH: EAST:

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
195	0		Firm brown clayey sand	1	27	A-6 (3)	-200=45.1 LL=27 MC=13 PI=16
			Firm red clayey sand	2	28	A-4 (0)	-200=50.4 LL=NP MC=16 PI=NP
				3	13	A-6 (3)	-200=45.5 LL=29 MC=17 PI=13
190	5		Firm brown & red clayey sand	4	26		
185	10			5	40	A-6 (4)	-200=44.8 LL=34 MC=17 PI=16
			Dense red clayey sand				
180	15			6	42		
			Firm red & white sand	7	27		
175	20		B.T. @ 20 FT				
170	25						
165	30						
160	35						
155	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 10 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP D
STA. 16+84
88 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 194.62 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-5

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
195	0		3.0" Topsoil Very stiff dark brown sandy clay	1	16		
			Firm brown & red clayey sand	2	16	A-6 (4)	-200=49.4 LL=28 MC=14 PI=17
				3	14		
190	5		Stiff to very stiff brown & red sandy clay	4	16	A-6 (5)	-200=46.0 LL=32 MC=19 PI=20
185	10		Very stiff red sandy clay	5	21		
180	15		Firm red silty sand	6	15		
			Firm red to light red fine sand				
175	20			7	25		
			B.T. @ 20 FT				
170	25						
165	30						
160	35						
155	40						

RAMP D
STA. 18+87
37 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/7/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 186.13 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-8

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
186	0		3.0" Topsoil	1	11	A-2-4 (0)	-200=28.0 LL=20 MC=16 PI=8
				2	16	A-6 (4)	-200=43.9 LL=31 MC=16 PI=19
			Firm red clayey sand	3	23	A-6 (1)	-200=37.4 LL=32 MC=16 PI=15
181	5			4	22		
			Firm red sand				
176	10			5	24		
			B.T. @ 10 FT				
171	15						
166	20						
161	25						
156	30						
151	35						
146	40						

RAMP D
STA. 21+95
25 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/7/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 184.24 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-9

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
184	0		5.0" Topsoil Firm red silty sand	1	12	A-2-4 (0)	-200=25.4 LL=16 MC=13 PI=3
				2	20		
			Firm red clayey sand	3	14	A-6 (4)	-200=44.8 LL=33 MC=17 PI=18
179	5			4	24		
			Firm red silty sand w/ trace clay				
174	10			5	24		
			B.T. @ 10 FT				
169	15						
164	20						
159	25						
154	30						
149	35						
144	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 11 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

RAMP D
STA. 24+95
12 FT LT OF BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/9/08
BORING DEPTH: 10 FT.
BORING ELEV.: 183.11 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-10

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
183	0		6.0" Topsoil				
			Firm brown clayey sand w/ reddish brown silty sand layer	1	21		
			Dense red clayey sand	2	30	A-2-4 (0)	-200=27.3 LL=22 MC=12 PI=8
				3	12		
178	5			4	14		
			Firm red clayey sand w/ trace gravel				
173	10			5	17		
			B.T. @ 10 FT				
168	15						
163	20						
158	25						
153	30						
148	35						
143	40						

I-10
STA. 27+67
65 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
BORING DEPTH: 10 FT.
BORING ELEV.: 164.61 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-101

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
165	0		4.5" TOPSOIL				
			Firm to dense brownish red and red silty sand w/ trace ironstone	1	13	A-2-4 (0)	-200=19.6 LL=NP MC=13 PI=NP
				2	48	A-2-4 (0)	-200=29.7 LL=19 MC=11 PI=2
				3	50/6		
160	5		Very dense to firm light brown and white silty sand	4	19		
			Firm white and red fine sand w/ red and pink clayey sand layer	5	22		
155	10		B.T. @ 10 FT				
150	15						
145	20						
140	25						
135	30						
130	35						
125	40						

I-10
STA. 30+68
64 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
BORING DEPTH: 10 FT.
BORING ELEV.: 167.80 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-102

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
168	0						
			Firm to very dense brown and red silty sand	1	13	A-2-4 (0)	-200=24.5 LL=NP MC=13 PI=NP
				2	15	A-2-4 (0)	-200=25.5 LL=17 MC=12 PI=1
				3	53	A-2-4 (0)	-200=14.6 LL=NP MC=9 PI=NP
163	5		Dense light red sand w/ silt	4	40		
			Dense red and light red silty sand				
158	10			5	43		
			B.T. @ 10 FT				
153	15						
148	20						
143	25						
138	30						
133	35						
128	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 12 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

I-10
STA. 33+67
64 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 171.76 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-103

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
172	0		6" Topsoil				
			Firm red silty sand w/ trace shell	1	18	A-2-4 (0)	-200=33.3 LL=17 MC=13 PI=2
			Firm red clayey sand	2	15	A-2-4 (0)	-200=31.4 LL=21 MC=14 PI=5
				3	50	A-2-4 (0)	-200=15.6 LL=NP MC=11 PI=NP
167	5		Dense to very dense red and brown silty sand	4	63		
			Firm red and white silty sand	5	24		
162	10		B.T. @ 10 FT				
157	15						
152	20						
147	25						
142	30						
137	35						
132	40						

I-10
STA. 36+60
67 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 175.88 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-104

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
176	0		3" Topsoil				
			Loose to firm red and brown silty sand	1	9	A-2-4 (0)	-200=26.8 LL=17 MC=12 PI=5
				2	13	A-2-4 (0)	-200=26.0 LL=NP MC=13 PI=NP
			Very dense red and brown silty sand (wet)	3	55	A-2-4 (0)	-200=17.7 LL=NP MC=14 PI=NP
171	5		Very dense brown and red silty sand w/ clayey sand lens	4	78		
			Dense light red and light brown silty sand	5	38		
166	10		B.T. @ 10 FT				
161	15						
156	20						
151	25						
146	30						
141	35						
136	40						

I-10
STA. 39+62
123 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 171.65 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-105

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
172	0		Loose brown silty sand	1	6		
			Loose brown clayey sand				
			Loose light red silty sand w/ weak red and light gray clay lenses	2	9	A-2-4 (0)	-200=29.4 LL=18 MC=13 PI=2
			Firm weak red, yellow and light gray clayey sand	3	24	A-4 (0)	-200=51.6 LL=23 MC=14 PI=6
167	5			4	37		
162	10		Dense to very dense light red, brown and red silty sand	5	43	A-2-4 (0)	-200=11.1 LL=NP MC=6 PI=NP
157	15		B.T. @ 15 FT	6	61		
152	20						
147	25						
142	30						
137	35						
132	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 13 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

I-10
STA. 39+62
82 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
BORING DEPTH: 10 FT.
BORING ELEV.: 177.81 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-106

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
178	0		4" Topsoil				
			Loose red and brown clayey sand	1	6	A-2-4 (0)	-200=31.7 LL=18 MC=16 PI=2
			Firm red and brown silty sand w/ red and light gray clay lens	2	18	A-2-4 (0)	-200=31.5 LL=27 MC=15 PI=9
				3	28		
173	5		Firm to dense red and brown silty sand	4	45		
			Dense red and yellow silty sand w/ clay lenses	5	40		
168	10		B.T. @ 10 FT				
163	15						
158	20						
153	25						
148	30						
143	35						
138	40						

I-10
STA. 42+62
108 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH, CS(LOGGER)
DATE DRILLED: 3/18/10
BORING DEPTH: 20 FT.
BORING ELEV.: 177.83 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-107

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
178	0		6" Topsoil				
			Firm brown and red clayey sand	1	12	A-2-4 (0)	-200=32.5 LL=19 MC=18 PI=3
			Firm dark brown and red silty sand w/ weak red and light gray silty clay lens	2	20		
				3	27	A-2-4 (0)	-200=19.5 LL=NP MC=12 PI=NP
173	5		Firm to dense red, brown and light gray silty sand w/ clay lenses	4	36		
			Dense red and light red sand w/ yellow clay layer	5	36	A-2-4 (0)	-200=24.3 LL=20 MC=15 PI=7
168	10						
			Firm red and white sand w/ silt	6	30		
163	15						
			Firm brownish yellow silty sand w/ trace sandstone	7	20		
158	20		B.T. @ 20 FT				
153	25						
148	30						
143	35						
138	40						

I-10
STA. 45+50
189 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
BORING DEPTH: 20 FT.
BORING ELEV.: 170.50 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-108

REMARKS:

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
171	0		Very stiff red and brown sandy clay	1	20	A-6 (5)	-200=45.4 LL=39 MC=19 PI=20
			Firm red and brown clayey sand	2	30	A-2-7 (3)	-200=33.9 LL=47 MC=16 PI=24
				3	25	A-7-6 (6)	-200=48.0 LL=45 MC=17 PI=20
166	5			4	24		
			Firm red, brown and yellow silty sand				
161	10			5	23	A-2-4 (0)	-200=27.5 LL=NP MC=15 PI=NP
				6	19	A-3 (0)	-200=9.4 LL=NP MC=9 PI=NP
156	15		Firm pink and light yellow sand w/ silt				
151	20		B.T. @ 20 FT	7	24		
146	25						
141	30						
136	35						
131	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 14 OF 15

PROJECT NO.	FISCAL YEAR	SHEET NO.

I-10
STA. 45+58
127 FT LT OF CL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SW, MH(LOGGER)
DATE DRILLED: 3/17/10
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 178.73 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-109

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
179	0		Firm dark brown clayey sand w/ organics	1	11		
			Firm red, brown and yellow clayey sand w/ trace organics at 1.5 ft	2	16	A-6 (2)	-200=36.9 LL=33 MC=13 PI=18
				3	13		
174	5		Firm red and yellowish brown clayey sand	4	11	A-7-6 (4)	-200=38.0 LL=52 MC=17 PI=23
169	10		Firm weak red, light gray and yellow clay	5	25	A-7-6 (59)	-200=99.1 LL=77 MC=26 PI=51
164	15		Firm light gray, weak red and yellow clayey sand	6	14	A-4 (0)	-200=60.6 LL=22 MC=22 PI=3
			Firm weak red and white sand w/ silt	7	29		
159	20		B.T. @ 20 FT				
154	25						
149	30						
144	35						
139	40						

I-10
STA. 59+45
68 FT LT OF CL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 193.51 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-17

NORTH: **EAST:**

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
194	0		6.0" Topsoil				
			Firm dark brown & red silty sand	1	15	A-2-4 (0)	-200=20.7 LL=NP MC=12 PI=NP
				2	23		
189	5		Firm to dense red clayey sand	3	18	A-6 (6)	-200=48.8 LL=35 MC=17 PI=19
				4	35		
184	10		Firm red silty clayey sand	5	18		
			B.T. @ 10 FT				
179	15						
174	20						
169	25						
164	30						
159	35						
154	40						

NOTE(S):

The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level indicated is for the highest elevation recorded during this investigation and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

- Topsoil
- A-1a, A-1b
- A-2-4, A-2-5
- A-2-6, A-2-7
- A-3
- A-4
- A-5
- A-6
- A-7-5, A-7-6
- A-8
- Asphalt Pavement
- Crushed Stone
- Standard Penetration Test
- Undisturbed Shelby Tube Sample
- Ground Water Measurement
- N_f = SPT Value determined in field
- NWTE = No Water Table Encountered

ALABAMA DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
ENGINEERING-TESTING,INC

APPROVED : CURT DOYLE, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NUMBER:
I-10/SR-181 INTERCHANGE MODIFICATION TO DIVERGING DIAMOND

BALDWIN

PRELIMINARY PROJECT NO.: IM-I010(320)

TEST BORING RECORD
SHEET NO. 15 OF 15

GEOTECHNICAL ENGINEERING TESTING, INC

~ Geotechnical Evaluations ~ Construction Materials Testing ~ Geosciences ~ Infrastructure Management Services ~

SOILS SURVEY AND SLOPE STUDY REPORT
PROJECT NO. IM-I010 (320)
I-10 AND SR-181 INTERCHANGE IMPROVEMENTS
BALDWIN COUNTY

Professional Services Since 1974

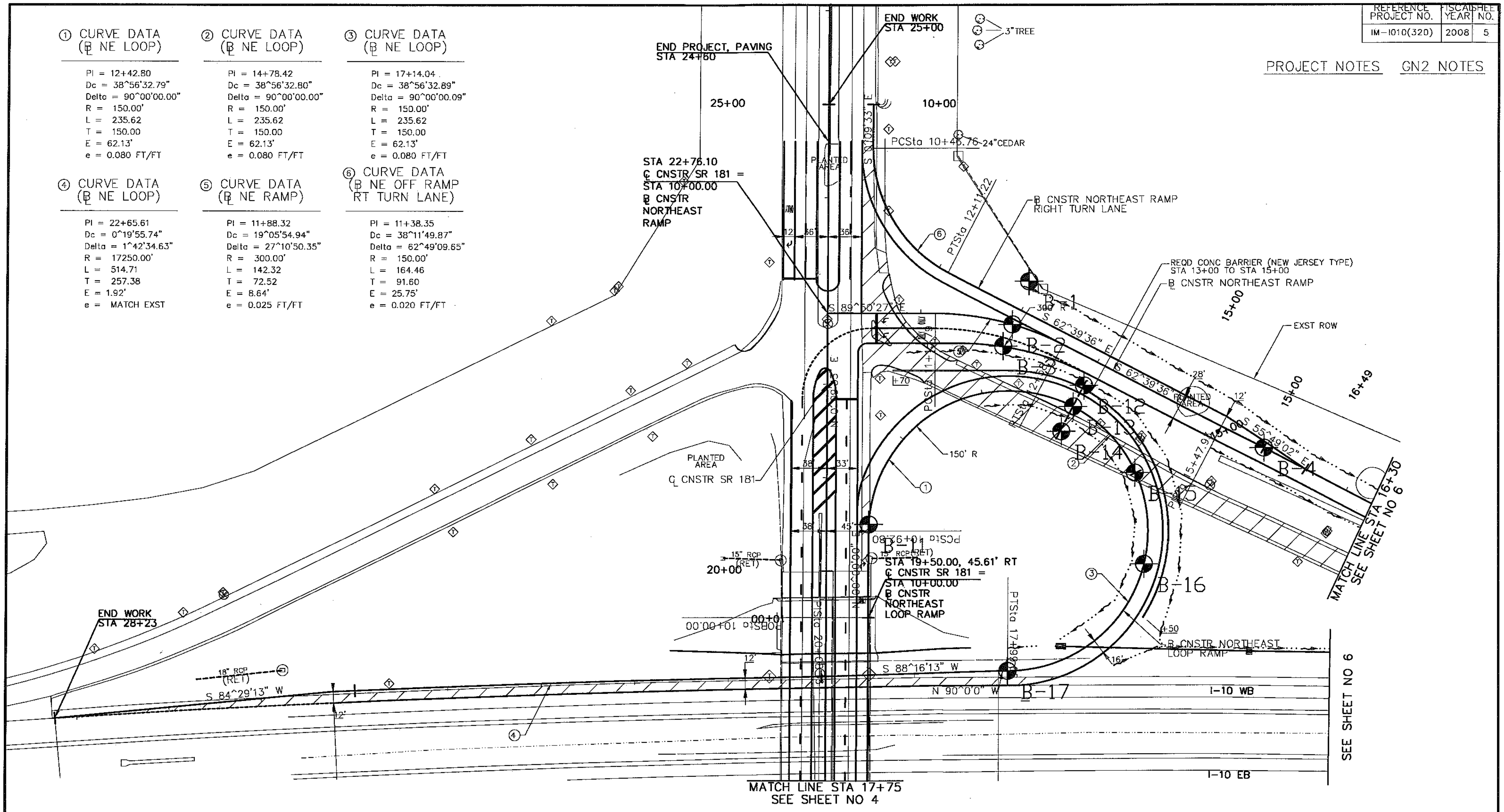
904 Butler Drive	8951 Highway 59 South	1629 Government Street
Mobile, AL 36693	Foley, AL 36536	Ocean Springs, MS 39564
251.666.7197	251.971.1152	228.872.2854
FAX: 251.666.7380	FAX: 251.971.1153	FAX: 228.872.5618
	www.geoengr.com	

PLAN/PROFILE SHEETS

PROJECT NOTES GN2 NOTES

	① CURVE DATA (℄ NE LOOP)	② CURVE DATA (℄ NE LOOP)	③ CURVE DATA (℄ NE LOOP)
PI =	12+42.80	14+78.42	17+14.04
Dc =	38^56'32.79"	38^56'32.80"	38^56'32.89"
Delta =	90^00'00.00"	90^00'00.00"	90^00'00.09"
R =	150.00'	150.00'	150.00'
L =	235.62	235.62	235.62
T =	150.00	150.00	150.00
E =	62.13'	62.13'	62.13'
e =	0.080 FT/FT	0.080 FT/FT	0.080 FT/FT

	④ CURVE DATA (℄ NE LOOP)	⑤ CURVE DATA (℄ NE RAMP)	⑥ CURVE DATA (℄ NE OFF RAMP RT TURN LANE)
PI =	22+65.61	11+88.32	11+38.35
Dc =	0^19'55.74"	19^05'54.94"	38^11'49.87"
Delta =	1^42'34.63"	27^10'50.35"	62^49'09.65"
R =	17250.00'	300.00'	150.00'
L =	514.71	142.32	164.46
T =	257.38	72.52	91.60
E =	1.92'	8.64'	25.75'
e =	MATCH EXST	0.025 FT/FT	0.020 FT/FT


END WORK STA 25+00
3" TREE
END PROJECT, PAVING STA 24+60
25+00
10+00
PCSta 10+45.76
24" CEDAR
STA 22+76.10
℄ CNSTR SR 181 = STA 10+00.00 ℄ CNSTR NORTHEAST RAMP
PLANTED AREA
℄ CNSTR NORTHEAST RAMP RIGHT TURN LANE
PTSta 12+11.22
REQD CONC BARRIER (NEW JERSEY TYPE) STA 13+00 TO STA 15+00
℄ CNSTR NORTHEAST RAMP
15+00
EXST ROW
S 89^50'27" E
S 62^39'36" E
S 55^49'02" E
B-1
B-2
B-3
B-4
B-11
B-12
B-13
B-14
B-15
B-16
B-17
150' R
16+49
MATCH LINE STA 16+30 SEE SHEET NO 6
℄ CNSTR SR 181
15" RCP (RET)
20+00
STA 19+50.00, 45.61' RT
℄ CNSTR SR 181 = STA 10+00.00 ℄ CNSTR NORTHEAST LOOP RAMP
POBSta 10+00.00
PTSta 20+08.58
PTSta 17+14.04
℄ CNSTR NORTHEAST LOOP RAMP
END WORK STA 28+23
18" RCP (RET)
S 84^29'13" W
S 88^16'13" W
N 90^0'0" W
I-10 WB
I-10 EB
SEE SHEET NO 6
MATCH LINE STA 17+75
SEE SHEET NO 4

LEGEND

- EXST PVMT
- EXST ASP PVMT/CURB (TO BE REMOVED)

50 0 25 50 100

ALABAMA DEPARTMENT OF TRANSPORTATION

I-10 AND SR-181 INTERCHANGE IMPROVEMENTS

PLAN

STA 17+75 TO STA 25+00

J.B. TRIMBLE, INC.
857 Downtowner Blvd.
Suite F
Mobile, AL 36609

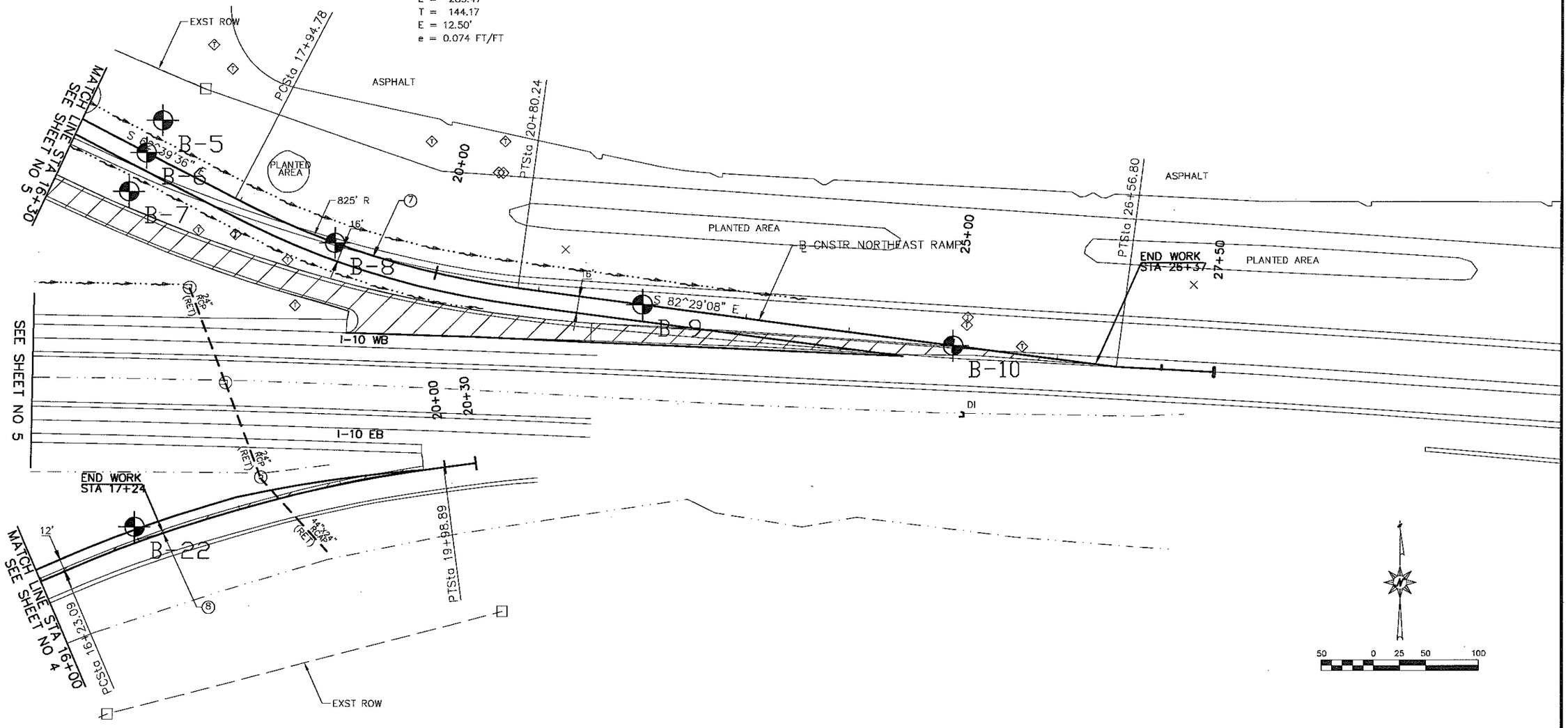
DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG NO

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
IM-1010(320)	2008	6

PROJECT NOTES GN2 NOTES

⑦ CURVE DATA
(℄ NE RAMP)

PI = 19+38.95
Dc = 6^56'41.79"
Delta = 19^49'31.90"
R = 825.00'
L = 285.47
T = 144.17
E = 12.50'
e = 0.074 FT/FT



⑧ CURVE DATA
(℄ SE RAMP)

PI = 18+12.21
Dc = 4^14'38.87"
Delta = 15^56'56.81"
R = 1350.00'
L = 375.79
T = 189.12
E = 13.18'
e = MATCH EXST

LEGEND

EXST PVMT

EXST ASP PVMT/CURB
(TO BE REMOVED)

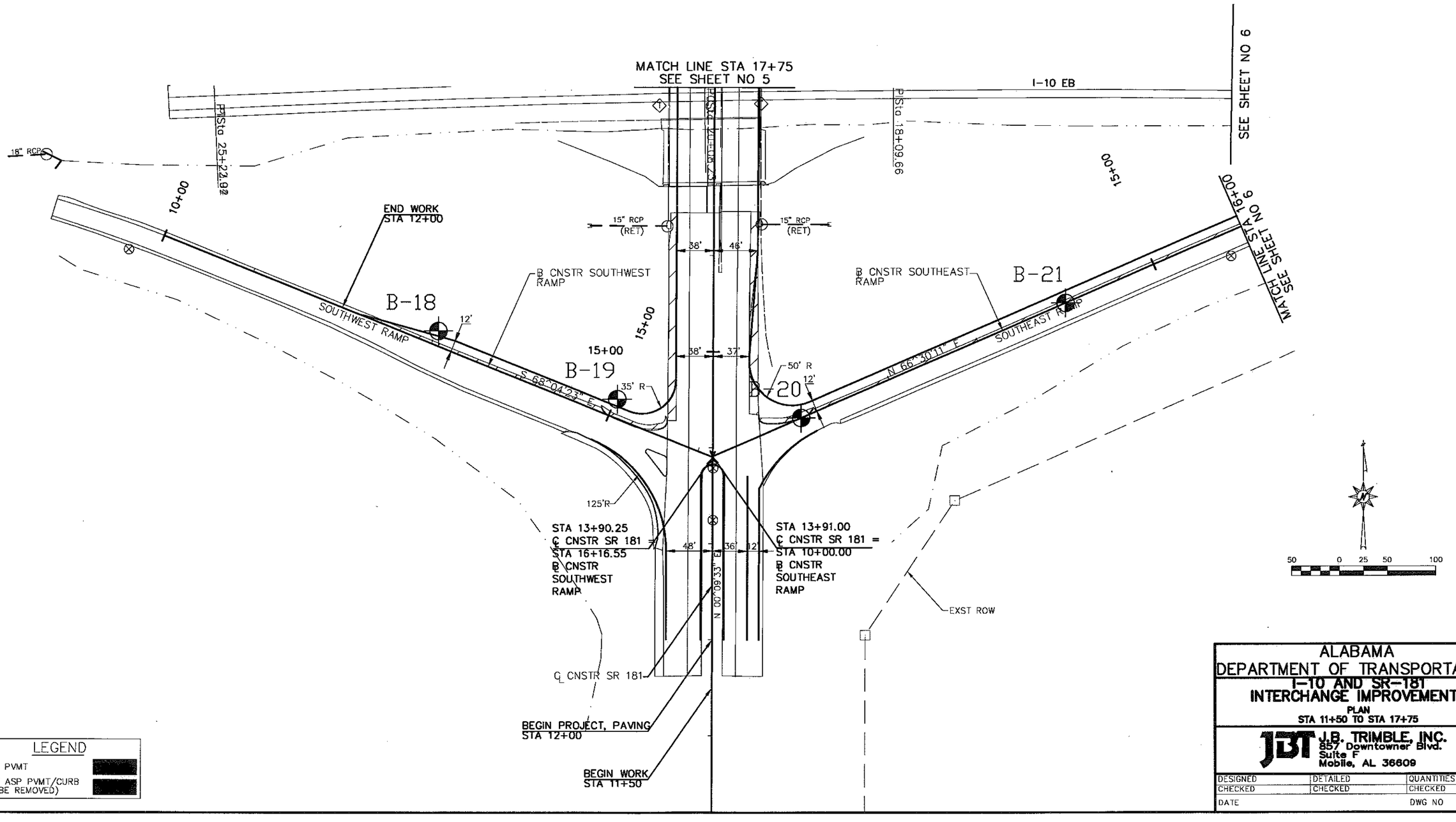
ALABAMA
DEPARTMENT OF TRANSPORTATION
I-10 AND SR-181
INTERCHANGE IMPROVEMENTS
PLAN
NORTHEAST AND SOUTHEAST RAMPS

JBT J.B. TRIMBLE, INC.
857 Downtowner Blvd.
Suite F
Mobile, AL 36609

DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG NO

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
IM-I010(320)	2008	4

PROJECT NOTES GN2 NOTES



LEGEND

EXST PVMT	
EXST ASP PVMT/CURB (TO BE REMOVED)	

ALABAMA DEPARTMENT OF TRANSPORTATION

I-10 AND SR-181 INTERCHANGE IMPROVEMENTS

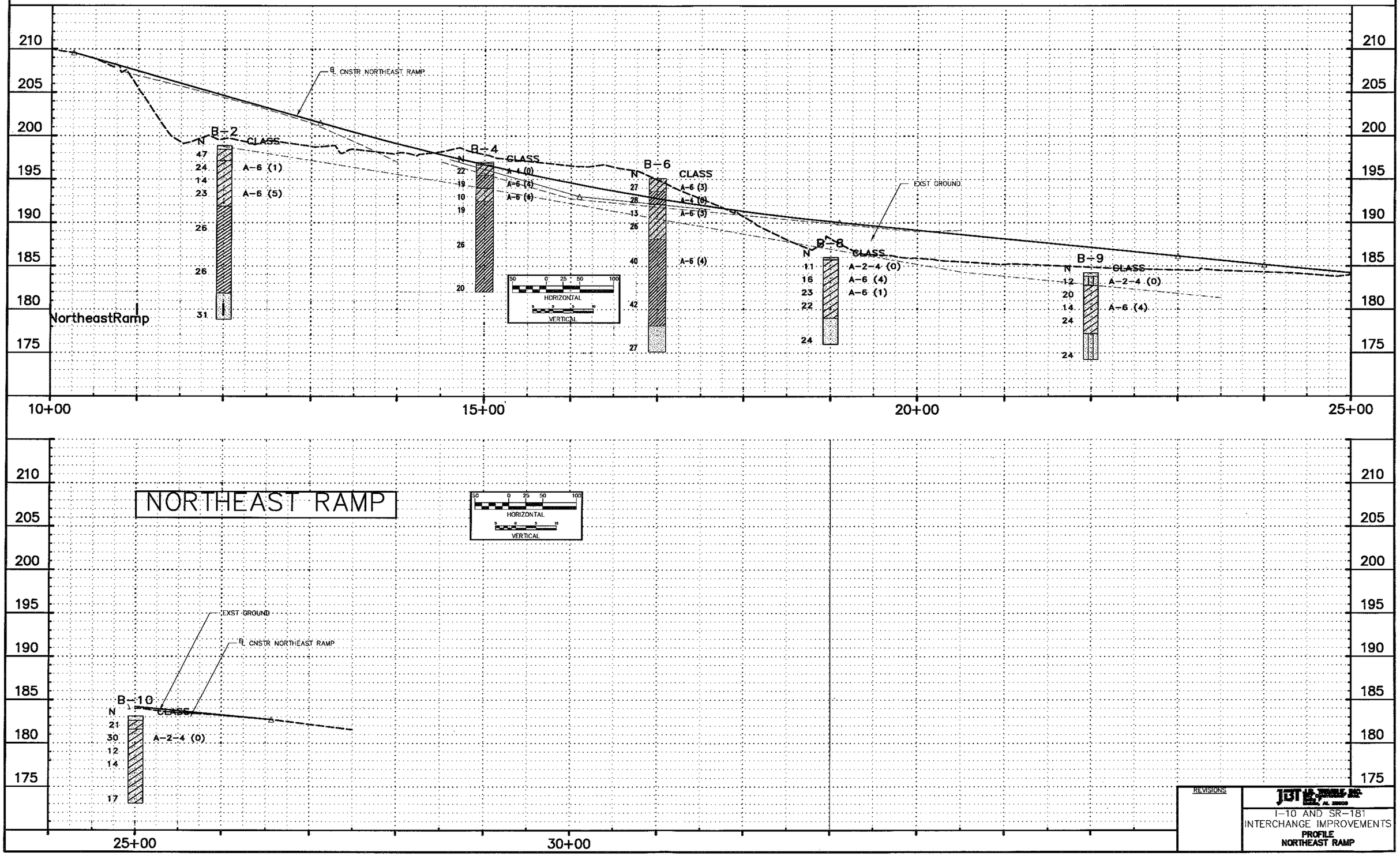
PLAN

STA 11+50 TO STA 17+75

J.B. TRIMBLE, INC.
857 Downtowner Blvd.
Suite F
Mobile, AL 36609

DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG NO

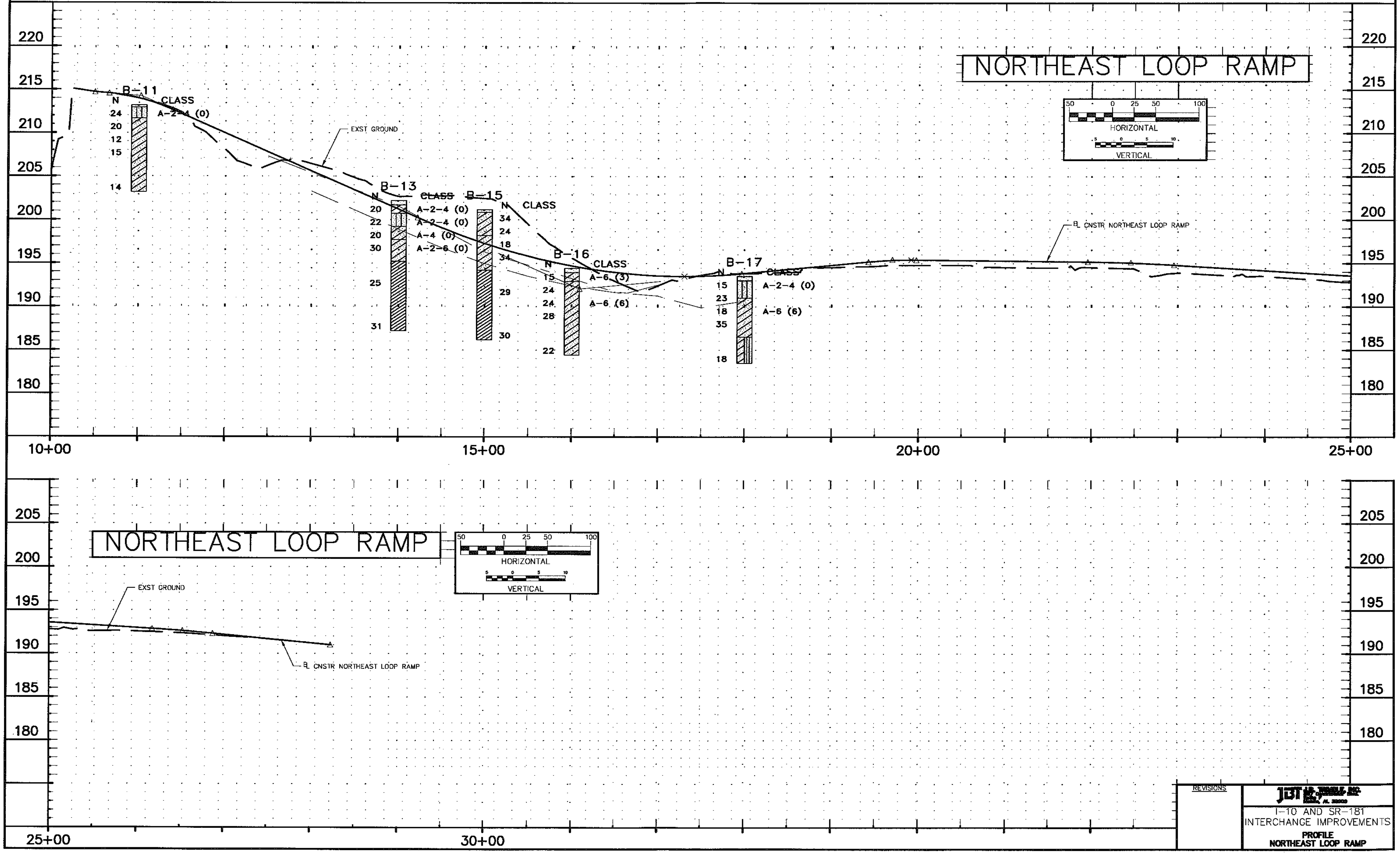
REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
IM-1010(320)	2008	9



REVISIONS

I-10 AND SR-181
INTERCHANGE IMPROVEMENTS
PROFILE
NORTHEAST RAMP

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
IM-1010(320)	2008	8



REVISIONS

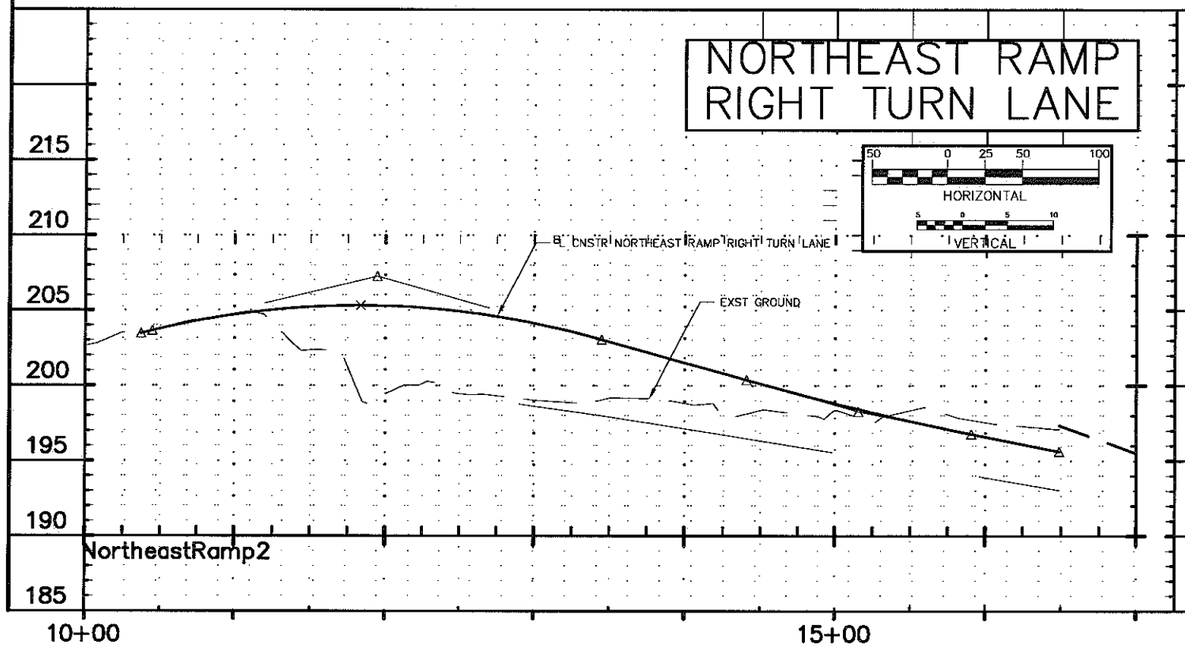
J.B. TRIMBLE, INC.

I-10 AND SR-181 INTERCHANGE IMPROVEMENTS

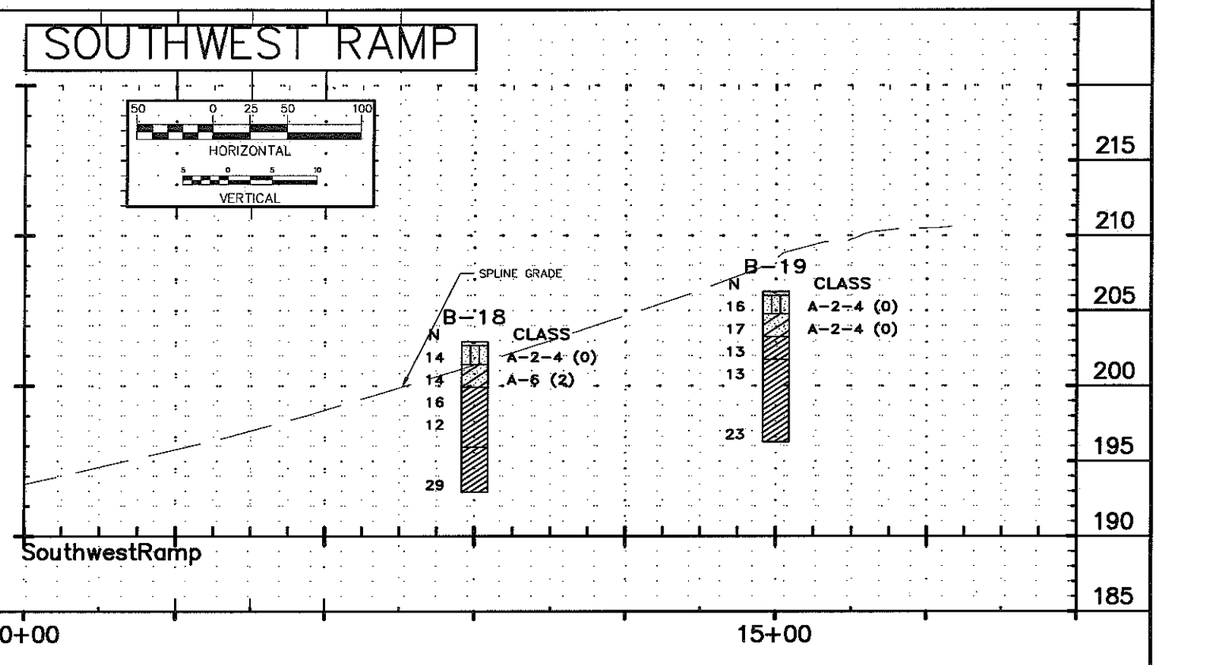
PROFILE NORTHEAST LOOP RAMP

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
IM-1010(320)	2008	10

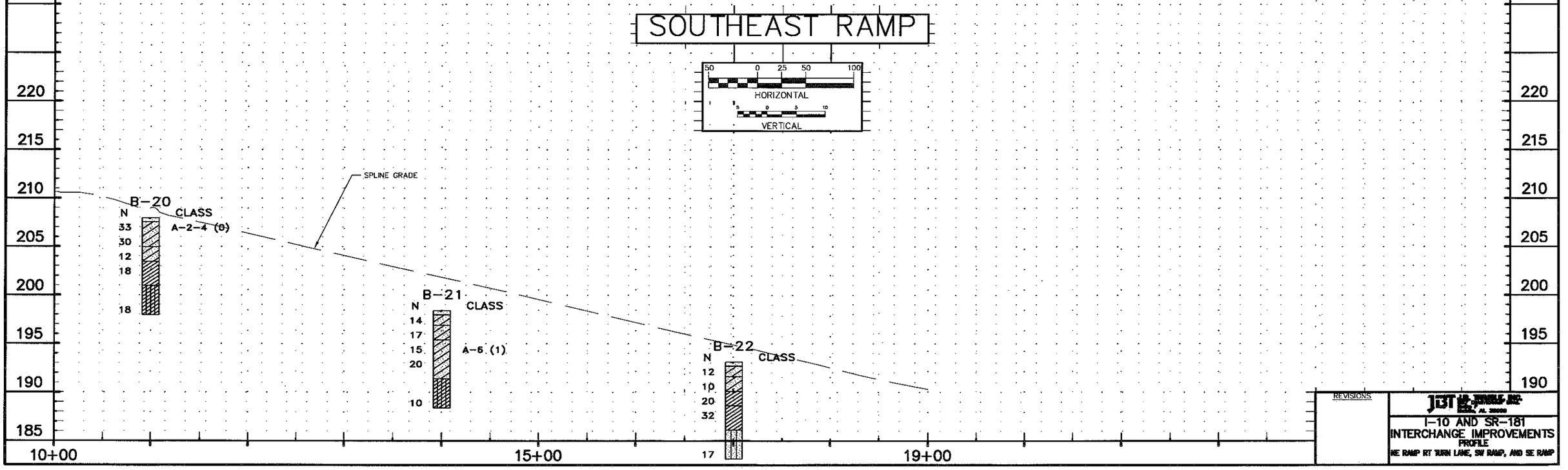
NORTHEAST RAMP RIGHT TURN LANE



SOUTHWEST RAMP



SOUTHEAST RAMP



REVISIONS

JBT

I-10 AND SR-181
INTERCHANGE IMPROVEMENTS
PROFILE
NE RAMP RT TURN LANE, SW RAMP, AND SE RAMP

BORING LOGS
(Half Sized)

FHWA REG.NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	IM-I010(320)			

NORTHEAST RAMP
STATION 12+00
50' LT OF B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 197.68 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-1

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
198	0		4.0" Topsoil	1	60	A-6 (2)	-200=47.7 LL=23 MC=8 PI=12
			Dense dark brown & red clayey sand	2	23		
				3	10	A-6 (3)	-200=47.3 LL=27 MC=15 PI=15
193	5		Firm brown & red clayey sand	4	16		
188	10		Very stiff red sandy clay	5	22		
183	15		Firm red clayey sand	6	24		
178	20		Dense orange, red & light brown fine sand	7	32		
			B.T. @ 20 FT				
173	25						
168	30						
163	35						
158	40						

NORTHEAST RAMP
STATION 12+00
B/L

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 198.87 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-2

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
199	0		5.0" Topsoil	1	47		
			Dense dark brown & red clayey sand	2	24	A-6 (1)	-200=42.1 LL=22 MC=10 PI=12
				3	14		
194	5		Firm brown & red clayey sand	4	23	A-6 (5)	-200=48.1 LL=34 MC=18 PI=18
189	10		Very stiff red sandy clay	5	26		
184	15			6	26		
179	20		Dense red sand	7	31		
			B.T. @ 20 FT				
174	25						
169	30						
164	35						
159	40						

NORTHEAST RAMP
STATION 12+00
25' RT OF B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 198.64 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-3

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
199	0		4.0" Topsoil	1	23		
			Firm brown & red clayey sand	2	23	A-6 (3)	-200=47.9 LL=26 MC=11 PI=13
				3	13	A-6 (4)	-200=50.9 LL=29 MC=17 PI=16
194	5		Stiff to very stiff yellowish brown & red sandy clay	4	22		
189	10		Very stiff red & light gray sandy clay	5	28		
			Hard red sandy clay				
184	15		Dense red clayey sand	6	32		
179	20		Firm orange, light brown & red fine to medium sand	7	21		
			B.T. @ 20 FT				
174	25						
169	30						
164	35						
159	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

Standard Penetration Test

Ground Water

N_f = SPT Value determined in field

GEOTECHNICAL ENGR.-TEST., INC.

SHEET NO. OF

APPROVED :

REVIEWED :

CURT DOYLE, P.E.
GEOTECHNICAL ENGINEER

DIVISION MATERIALS ENGINEER

DATE :

DATE :

ALABAMA DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: IM-I010(320)

PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS

COUNTY: BALDWIN

TEST BORING RECORD

FHWA REG.NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	IM-I010(320)			

NORTHEAST RAMP
STATION 15+00
B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 196.87 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-4

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
197	0		4.0" Topsoil				
			Firm brown & red clayey sand	1	22	A-4 (0)	-200=45.6 LL=21 MC=9 PI=6
			Very stiff brown & red sandy clay	2	19	A-6 (4)	-200=50.9 LL=29 MC=15 PI=16
			Firm red clayey sand w/ roots	3	10	A-6 (4)	-200=47.9 LL=29 MC=17 PI=16
192	5			4	19		
187	10		Very stiff red sandy clay	5	26		
182	15		B.T. @ 15 FT	6	20		
177	20						
172	25						
167	30						
162	35						
157	40						

NORTHEAST RAMP
STATION 17+00
35' LT OF B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 194.62 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-5

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
195	0		3.0" Topsoil				
			Very stiff dark brown sandy clay	1	16		
			Firm brown & red clayey sand	2	16	A-6 (4)	-200=49.4 LL=28 MC=14 PI=17
				3	14		
190	5		Stiff to very stiff brown & red sandy clay	4	16	A-6 (5)	-200=46.0 LL=32 MC=19 PI=20
185	10		Very stiff red sandy clay	5	21		
180	15		Firm red silty sand	6	15		
175	20		Firm red to light red fine sand	7	25		
			B.T. @ 20 FT				
170	25						
165	30						
160	35						
155	40						

NORTHEAST RAMP
STATION 17+00
B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/7/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 195.13 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-6

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
195	0		Firm brown clayey sand	1	27	A-6 (3)	-200=45.1 LL=27 MC=13 PI=16
			Firm red clayey sand	2	28	A-4 (0)	-200=50.4 LL=NP MC=16 PI=NP
				3	13	A-6 (3)	-200=45.5 LL=29 MC=17 PI=13
190	5		Firm brown & red clayey sand	4	26		
185	10			5	40	A-6 (4)	-200=44.8 LL=34 MC=17 PI=16
			Dense red clayey sand				
180	15			6	42		
175	20		Firm red & white sand	7	27		
			B.T. @ 20 FT				
170	25						
165	30						
180	35						
155	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

⊠ Standard Penetration Test

▽ Ground Water

N_f = SPT Value determined in field

GEOTECHNICAL ENGR.-TEST., INC.

SHEET NO. OF

APPROVED :

REVIEWED :

CURT DOYLE, P.E.
GEOTECHNICAL ENGINEER

DIVISION MATERIALS ENGINEER

DATE :

DATE :

ALABAMA DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: IM-I010(320)

PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS

COUNTY: BALDWIN

TEST BORING RECORD

FHWA REG.NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	IM-I010(320)			

NORTHEAST RAMP
STATION 17+00
40' RT OF B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/9/08
REMARKS:

BORING DEPTH: 20 FT.
BORING ELEV.: 192.89 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-7

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
193	0		5.0" Topsoil Firm brown & red clayey sand	1	17	A-2-4 (0)	-200=34.6 LL=19 MC=11 PI=9
				2	20	A-6 (3)	-200=44.7 LL=31 MC=17 PI=16
				3	24		
188	5			4	36	A-2-6 (1)	-200=34.6 LL=30 MC=16 PI=13
			Firm to dense red clayey sand				
183	10			5	45		
178	15		Dense red silty sand w/ trace clay	6	42		
			Dense light red sand	7	37		
173	20		B.T. @ 20 FT				
168	25						
163	30						
158	35						
153	40						

NORTHEAST RAMP
STATION 19+00
B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/7/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 186.13 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-8

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
186	0		3.0" Topsoil	1	11	A-2-4 (0)	-200=28.0 LL=20 MC=16 PI=8
				2	16	A-6 (4)	-200=43.9 LL=31 MC=16 PI=19
			Firm red clayey sand	3	23	A-6 (1)	-200=37.4 LL=32 MC=16 PI=15
181	5			4	22		
			Firm red sand	5	24		
176	10		B.T. @ 10 FT				
171	15						
166	20						
161	25						
156	30						
151	35						
146	40						

NORTHEAST RAMP
STATION 22+00
B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/7/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 184.24 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-9

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
184	0		5.0" Topsoil Firm red silty sand	1	12	A-2-4 (0)	-200=25.4 LL=16 MC=13 PI=3
				2	20		
			Firm red clayey sand	3	14	A-6 (4)	-200=44.8 LL=33 MC=17 PI=18
179	5			4	24		
			Firm red silty sand w/ trace clay	5	24		
174	10		B.T. @ 10 FT				
169	15						
164	20						
159	25						
154	30						
149	35						
144	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

⊠ Standard Penetration Test

▽ Ground Water

N_f = SPT Value determined in field

SHEET NO. OF

GEOTECHNICAL ENGR.-TEST., INC.

APPROVED :

CURT DOYLE, P.E.
GEOTECHNICAL ENGINEER
DATE :

REVIEWED :

DIVISION MATERIALS ENGINEER
DATE :

ALABAMA DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: IM-I010(320)

PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS

COUNTY: BALDWIN

TEST BORING RECORD

FHWA REG.NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	IM-I010(320)			

NORTHEAST RAMP
STATION 25+00
B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/9/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 183.11 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-10

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
183	0		6.0" Topsoil				
			Firm brown clayey sand w/ reddish brown silty sand layer	1	21		
			Dense red clayey sand	2	30	A-2-4 (0)	-200=27.3 LL=22 MC=12 PI=8
				3	12		
178	5			4	14		
			Firm red clayey sand w/ trace gravel				
173	10			5	17		
			B.T. @ 10 FT				
168	15						
163	20						
158	25						
153	30						
148	35						
143	40						

NORTHEAST LOOP RAMP
STATION 11+00
B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 213.18 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-11

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
213	0		3.0" Topsoil				
			Firm red & light brown silty sand	1	24	A-2-4 (0)	-200=24.0 LL=NP MC=7 PI=NP
				2	20		
				3	12		
208	5			4	15		
			Firm red clayey sand				
203	10			5	14		
			B.T. @ 10 FT				
198	15						
193	20						
188	25						
183	30						
178	35						
173	40						

NORTHEAST LOOP RAMP
STATION 14+00
25' LT OF B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/9/08
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 197.22 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-12

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
197	0		5.0" Topsoil				
			Firm red silty sand	1	11		
			Hard red sandy clay	2	30	A-6 (4)	-200=51.7 LL=29 MC=14 PI=14
				3	17		
192	5			4	35	A-6 (2)	-200=43.1 LL=34 MC=20 PI=13
			Firm to dense red & brown clayey sand				
187	10			5	39		
			Hard red sandy clay				
182	15			6	37		
			B.T. @ 15 FT				
177	20						
172	25						
167	30						
162	35						
157	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

⊠ Standard Penetration Test

▽ Ground Water

N_f = SPT Value determined in field

GEOTECHNICAL ENGR.-TEST., INC.

SHEET NO. OF

APPROVED :

REVIEWED :

CURT DOYLE, P.E.
GEOTECHNICAL ENGINEER

DIVISION MATERIALS ENGINEER

DATE :

DATE :

ALABAMA DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: IM-I010(320)

PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS

COUNTY: BALDWIN

TEST BORING RECORD

FHWA REG.NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	IM-I010(320)			

NORTHEAST LOOP RAMP
STATION 14+00
BL

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/9/08
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 202.22 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-13

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
202	0		6.0" Topsoil				
			Very stiff brown & red clayey sand	1	20	A-2-4 (0)	-200=31.0 LL=21 MC=10 PI=5
			Firm red silty sand w/ trace clay & gravel	2	22	A-2-4 (0)	-200=24.0 LL=21 MC=13 PI=7
			Firm red & brown clayey sand	3	20	A-4 (0)	-200=37.5 LL=25 MC=15 PI=10
197	5		Dense red clayey sand	4	30	A-2-6 (0)	-200=34.4 LL=25 MC=12 PI=12
				5	25		
192	10		Very stiff to hard red & brown sandy clay				
				6	31		
187	15		B.T. @ 15 FT				
182	20						
177	25						
172	30						
167	35						
162	40						

NORTHEAST LOOP RAMP
STATION 14+00
30' RT OF B/L

DRILL RIG: SIMCO 2400
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 203.82 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-14

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
204	0		4.0" Topsoil				
			Firm dark brown & red silty sand	1	23	A-2-4 (0)	-200=31.8 LL=NP MC=8 PI=NP
			Firm dark red & brown clayey sand w/ trace sandstone	2	26		
				3	23		
199	5		Firm red clayey sand	4	29	A-6 (4)	-200=43.9 LL=29 MC=13 PI=18
				5	22		
194	10		Very stiff to hard red & brown sandy clay				
				6	43		
189	15		B.T. @ 15 FT				
184	20						
179	25						
174	30						
169	35						
164	40						

NORTHEAST LOOP RAMP
STATION 15+10
BL

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SM, VS, CS(LOGGER)
DATE DRILLED: 6/7/08
REMARKS:

BORING DEPTH: 15 FT.
BORING ELEV.: 201.18 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-15

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
201	0		4.0" Topsoil				
			Dense to firm red clayey sand	1	34		
				2	24		
				3	18		
196	5		Firm to dense red clayey sand	4	34		
				5	29		
191	10		Very stiff to hard red sandy clay				
				6	30		
186	15		B.T. @ 15 FT				
181	20						
176	25						
171	30						
166	35						
161	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

⊠ Standard Penetration Test

▽ Ground Water

N_f = SPT Value determined in field

GEOTECHNICAL ENGR.-TEST., INC.

SHEET NO. OF

APPROVED :

REVIEWED :

CURT DOYLE, P.E.
GEOTECHNICAL ENGINEER

DIVISION MATERIALS ENGINEER

DATE :

DATE :

ALABAMA DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: IM-I010(320)

PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS

COUNTY: BALDWIN

TEST BORING RECORD

FHWA REG.NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	IM-I010(320)			

NORTHEAST LOOP RAMP
STATION 16+00
B/L

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 194.43 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-16

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
194	0		6.0" Topsoil				
			Firm dark brown & red clayey sand	1	15	A-6 (3)	-200=47.9 LL=25 MC=17 PI=15
				2	24		
				3	24	A-6 (6)	-200=48.6 LL=35 MC=18 PI=19
189	5		Firm red & brown clayey sand	4	28		
				5	22		
184	10		B.T. @ 10 FT				
179	15						
174	20						
169	25						
164	30						
159	35						
154	40						

NORTHEAST LOOP RAMP
STATION 18+00
B/L

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 193.51 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-17

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
194	0		6.0" Topsoil				
			Firm dark brown & red silty sand	1	15	A-2-4 (0)	-200=20.7 LL=NP MC=12 PI=NP
				2	23		
				3	18	A-6 (6)	-200=48.8 LL=35 MC=17 PI=19
189	5		Firm to dense red clayey sand	4	35		
			Firm red silty clayey sand	5	18		
184	10		B.T. @ 10 FT				
179	15						
174	20						
169	25						
164	30						
159	35						
154	40						

SOUTHWEST RAMP
STATION 13+00
15' LT OF B/L

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SM, VS, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 202.92 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC.

BORING NUMBER: B-18

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
203	0		3.0" Topsoil				
			Firm red & dark brown silty sand	1	14	A-2-4 (0)	-200=26.0 LL=NP MC=12 PI=NP
			Firm red clayey sand	2	14	A-6 (2)	-200=40.3 LL=26 MC=15 PI=15
				3	16		
198	5		Very stiff to stiff red & brown clay w/ sand	4	12		
			Very stiff yellowish brown & light gray clay	5	29		
193	10		B.T. @ 10 FT				
188	15						
183	20						
178	25						
173	30						
168	35						
163	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

⊠ Standard Penetration Test

▽ Ground Water

N_f = SPT Value determined in field

GEOTECHNICAL ENGR.-TEST., INC.

SHEET NO. OF

APPROVED :

REVIEWED :

CURT DOYLE, P.E.
GEOTECHNICAL ENGINEER

DIVISION MATERIALS ENGINEER

DATE :

DATE :

ALABAMA DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: IM-I010(320)

PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS

COUNTY: BALDWIN

TEST BORING RECORD

FHWA REG.NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	IM-I010(320)			

SOUTHWEST RAMP
STATION 15+00
20' LT OF B/L

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: SM, VS, CS(LOGGER)
DATE DRILLED: 6/9/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 206.27 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-19

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
206	0		3.0" Topsoil Firm brown & red silty sand	1	16	A-2-4 (0)	-200=25.1 LL=NP MC=11 PI=NP
			Firm red & gray clayey sand	2	17	A-2-4 (0)	-200=32.9 LL=23 MC=13 PI=10
201	5		Stiff red & light gray sandy clay	3	13		
				4	13		
			Stiff to very stiff red clay				
196	10			5	23		
			B.T. @ 10 FT				
191	15						
186	20						
181	25						
176	30						
171	35						
166	40						

SOUTHEAST RAMP
STATION 11+00
15' LT OF B/L

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 207.95 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-20

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
208	0		5.0" Topsoil Dense dark brown & red clayey sand	1	33	A-2-4 (0)	-200=35.3 LL=18 MC=9 PI=7
				2	30		
			Firm dark brown & red clayey sand w/ trace rock	3	12		
203	5		Very stiff red sandy clay	4	18		
			Very stiff light brown & red silty clay				
198	10			5	18		
			B.T. @ 10 FT				
193	15						
188	20						
183	25						
178	30						
173	35						
168	40						

SOUTHEAST RAMP
STATION 14+00
25' LT OF B/L

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 198.39 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-21

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N_f	AASHTO CLASS	LAB DATA
198	0		5.0" Topsoil Firm dark brown & red clayey sand	1	14		
			Firm dark brown & red clayey sand	2	17		
				3	15	A-6 (1)	-200=36.9 LL=31 MC=16 PI=14
193	5		Firm red clayey sand	4	20		
			Stiff light gray silty sandy clay				
188	10			5	10		MC=21
			B.T. @ 10 FT				
183	15						
178	20						
173	25						
168	30						
163	35						
158	40						

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

LEGEND OF SYMBOLS

Standard Penetration Test

Ground Water

N_f = SPT Value determined in field

GEOTECHNICAL ENGR.-TEST., INC.

SHEET NO. OF

APPROVED :

CURT DOYLE, P.E.
GEOTECHNICAL ENGINEER
DATE :

REVIEWED :

DIVISION MATERIALS ENGINEER
DATE :

ALABAMA DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: IM-I010(320)

PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS

COUNTY: BALDWIN

TEST BORING RECORD

FHWA REG.NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	IM-I010(320)			

SOUTHEAST RAMP
STATION 17+00
15' LT OF C/L

DRILL RIG: SIMCO 2800
DRILL METHOD: SOLID STEM AUGER
DRILL CREW: ES, LJ, CS(LOGGER)
DATE DRILLED: 5/31/08
REMARKS:

BORING DEPTH: 10 FT.
BORING ELEV.: 193.11 FT.
DATUM:
WATER DEPTH: NOT ENCOUNTERED

GEOTECHNICAL ENGINEERING TESTING, INC

BORING NUMBER: B-22

ELEV IN FEET	DEPTH IN FEET	LOG	DESCRIPTION	SAMPLE NO.	S.P.T. N,	AASHTO CLASS	LAB DATA
193	0		5.0" Topsoil				
			Firm dark brown & red clayey sand	1	12		
			Firm red clayey sand	2	10		
			Very stiff red & light gray clay	3	20		
188	5		Hard red sandy clay	4	32		
			Firm red silty sand	5	17		
183	10		B.T. @ 10 FT				
178	15						
173	20						
168	25						
163	30						
158	35						
153	40						

LEGEND OF SYMBOLS

⊠ Standard Penetration Test

▽ Ground Water

N_f = SPT Value determined in field

NOTE: The stratification lines shown represent the approximate boundary between soil types and the transition may be gradual. The groundwater level stated is for conditions at the time of boring and the level may fluctuate large amounts for other conditions or seasons.

GEOTECHNICAL ENGR.-TEST., INC.

SHEET NO. OF

APPROVED :

CURT DOYLE, P.E.
GEOTECHNICAL ENGINEER
DATE :

REVIEWED :

DIVISION MATERIALS ENGINEER
DATE :

ALABAMA DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: IM-I010(320)

PROJECT DESCRIPTION: I-10 / SR-181 INTERCHANGE IMPROVEMENTS

COUNTY: BALDWIN

TEST BORING RECORD