BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 067-0066-0 **Cobb County** SUFF. RATING: 85.0

Location & Geography

* Structure I.D. No.: 067-0066-0
200 Bridge Information: 04

* 6A Freature Int.: I-285 RAMP CBL CD
* 6B Critical Bridge: 0
* 7A Route Number Carried: SR00401
* 7B Facility Carried: I-75
* 9 Location: 6.7 MI SE OF MARIETTA
2 DOT District: 7
207 Year Photo: 1997

* 91 Inspection Frequency: 24 Date: 05/01/1999
92A Fract Crit Insp Freq: 0 00 Date: 0000
92B Underwater Insp Freq: 0 00 Date: 0000
92C Other Spc. Insp Freq: 0 00 Date: 0000

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1
Type: 1
Designator: 1
Number: 00075
Direction: 0

* 16 Latitude: 33-53.4
* 17 Longitude: 84 -27.6

98 Border Bridge: 000 %Shared: 00
99 ID Number: 000000000000000

* 100 Defense Highway: 2
* 101 Parallel Structure: N
* 102 Direction of Traffic: 2
264 Road Inventory Mile Post: 001.16

* 208 Inspection Area: 09 Initials: JMC

* Location I.D. No: 067-00401D-258.79N
* XReferen I.D. No: 000-000000-000.000

* 104 Highway System: 1
* 26 Functional Classification: 11
* 204 Federal Route Type: I No: 075-3
* 110 Truck Route: 1
206 School Bus Route: 0
217 Benchmark Elevation: 0.00
218 Datum: 0
* 19 Bypass Length: 4
* 20 Toll: 3
* 21 Maintenance: 01
* 22 Owner: 01
* 31 Design Load: 6
37 Historical Significance: 5
205 Congressional District: 06
* 27 Year Constructed: 1963
106 Year Reconstructed: 1997
33 Bridge Median: 3
34 Skew: 00
35 Structure Flared: 0
38 Navigation Control: N
213 Special Steel Design: 0
267 Type of Paint: 5

* 42 Type Service On: 1
Under: 1
214 Movable Bridge: 00
203 Type Bridge: Z-O-M-O
259 Pile Encasement: 3
* 43 Structure Type Main: 4 02
45 No. Spans Main: 003
44 Structure Type Appr: 0 0
46 No. Spans Appr: 0000
226 Bridge Curve Horz: 0 Vert: 0
111 Pier Protection: 0
107 Deck Structure Type: 1

108 Wearing Surface Type: 1
Membrane: 0
Protection: 0

Signs & Attachments

223 Expansion Joint Type: 01
242 Deck Drains: 0

243 Parapet Location: 0
Height: 0
Width: 0

238 Curb: 0.0 0
239 Handrail: 9 9
* 240 Median Barrier Rail: 1

241 Bridge Median Height: 5
Width: 3.2

* 230 Guardrail Loc Dir Rear: 6
Fwrd: 6
Oppo Dir Rear: 6
Fwrd: 6

244 Approach Slab: 3
224 Retaining Wall: 0

233 Posted Speed Limit: 65
236 Warning Sign: 0
234 Delineator: 0
235 Hazard Boards: 0

237 Utilities Gas: 00
Water: 00
Electric: 24
Telephone: 00
Sewer: 00

247 Lighting Street: 0
Navigation: 0
Aerial: 0

* 248 County Continuity No: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 067-0066-0 **Cobb County** SUFF. RATING: 85.0

Programming Data

201 Project No: I-FI-75-3 (66) 273 CT.2
202 Plans Available: 1
249 Prop. Proj No:
250 Approval Status: 0000
251 P.I. No: 000000
252 Contract Date: 0000
260 Seismic No: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp. Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 296700 Year: 2018

Hydraulic Data

215 Waterway Data
Highwater Elev: 0000.0 Year: 0000
Flood Elev: 0000.0 Freq: 00
Avg. Streambed Elev: 0000.0
Drainage Area: 00000
Area of Opening: 000000
113 Scour Critical: N
216 Water Depth: 00.0 Br Height: 00.0
222 Slope Protection: 4
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No Barrels: 0
Width: 0.0
Height: 0.0
Length: 0
Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No: 067-00401D-258.79N
* XReferen I.D. No: 000-000000-000.000

Measurements

* 29 ADT: 197800 Year: 1998
109 % Trucks: 12
* 28 Lanes On: 08 Under: 04
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0078
* 49 Structure Length: 170
51 Br. Rdwy. Width: 158.0
52 Deck Width: 164.0
* 47 Tot. Horz. Cl: 77.1
50 Curb/Sdewlk Width: 0.0/0.0
32 Approach Rdwy Width: 127
* 229 Shlder Width:
Rear Lt: 6.0 Type: 2 Rt: 13.0
Fwrd Lt: 6.0 Type: 2 Rt: 11.0
Pvment Width:
Rear: 60.0 Type: 2
Fwrd: 60.0 Type: 2
Intersection Rear: 1 Fwrd: 1
36 Safety Features Br. Rail: 1
Transition: 1
App. G. Rail: 1
App. Rail End: 1
53 Minimum Cl. Over: 99' 99"
Under: H 16' 09"
* 228 Min. Vert. Cl
Act. Odm. Dir: 99' 99"
Oppo. Dir: 99' 99"
Posted Odm. Dir: 00' 00"
Oppo. Dir: 00' 00"
55 Lateral Undercl. Rt: H 9.0
56 Lateral Undercl. Lt: 12.0
* 10 Max Min Vert Cl: 99' 99" Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.5
Deck Thick Approach: 0.0
246 Overlay Thickness: 0.0
211 Tons Structural Steel: 0.0
212 Year Last Painted: Sup: 1995 Sub: 0000

Ratings

66 Inventory Type: 2 Rating: 36
64 Operating Type: 2 Rating: 51
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 28 0
Type 3s2: 40 0
Timber: 36 0
Piggyback: 40 0
261 H Inventory Rating: 20
262 H Operating Rating: 28
67 Structural Evaluation: 7
58 Deck Condition: 6
59 Superstructure Condition: 8
* 227 Collision Damage: 0
60A Substructure Condition: 7
60B Scour Condition: N
60C Underwater Condition: N
71 Waterway Adequacy: N
61 Channel Protection Cond: N
68 Deck Geometry: 9
69 UnderClr. Horz/Vert: 7
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0

232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type 3S2: 00
Timber: 00
Piggyback: 00
253 Notification Date: 0000
253 Fed Notify Date: 0000 0

Report Date: 01/25/2000

BRIDGE FOUNDATION INVESTIGATION
I-75-3 (66) 273 COBB COUNTY
I-75 OVER I-285 WIDENING

1. Location & Scope - This project proposes to construct an adjoining structure between the existing bridges that currently carry the north and south bound lanes of I-75 over the east bound lanes of I-285 in addition to outside widening of the existing bridges. This project will be located northwest of Atlanta in the Biotite Gneiss/Amphibolite/Mica Schist Formation of the Georgia Piedmont Province.

2. Subsurface Conditions - Refer to the attached boring logs and subsurface profile for existing foundation conditions. Some pertinent information is:
   A) Generally, above elevation 840 lie medium dense silts with weathered rock and clay layers.
   B) Below elevation 840 lies dense to very dense weathered rock underlain by hard rock ranging from elevation 827 to elevation 838.
   C) Boulders were encountered in the existing fills.

3. End Bent Foundation Recommendations - Spread type footings utilizing 3.0 KSF as a maximum safe design pressure will provide suitable foundations for the end bents. These footings should be seated at elevations that will insure 2 feet of cover and a berm of 5 feet minimum width in front. Care should be taken to insure that footings are seated on undisturbed soil and that excavations are protected from surface water infiltration. If sufficient cover and area are unavailable for the outside widened sections of the existing bridges then steel "H" piles should be utilized as specified below.

4. Intermediate Bent Foundation Recommendations - Pile footings founded on steel "H" piles will provide suitable foundations for the intermediate bents of the new middle structure and outside widening. Pile bent extensions can be used at the end bents of the outside widening if conditions stated in Section 3 exist. Maximum design loads for corresponding pile sizes are:

   10 BP42 Piles = 55 tons
   12 BP53 Piles = 70 tons
   14 BP73 Piles = 90 tons

   Pile tips under the above loads should range in the following manner:

Bridge Foundation Investigation
I-75-3 (66) 273 Cobb County
I-75 Over I-285 Widening
Page 2

BENT	LOCATION	EST. TIP ELEV.	MIN. TIP ELEV.
1	Lt. Outside Widening	830-835	850
1	Rt. Outside Widening	810-815	840
2	Lt. Outside Widening	840-845	850
2	Interior Structure	830-840	850
2	Rt. Outside Widening	820-825	850
3	Lt. Outside Widening	835-840	850
3	Interior Structure	830-835	850
3	Rt. Outside Widening	825-830	850
4	Lt. Outside Widening	835-840	860
4	Rt. Outside Widening	835-840	860

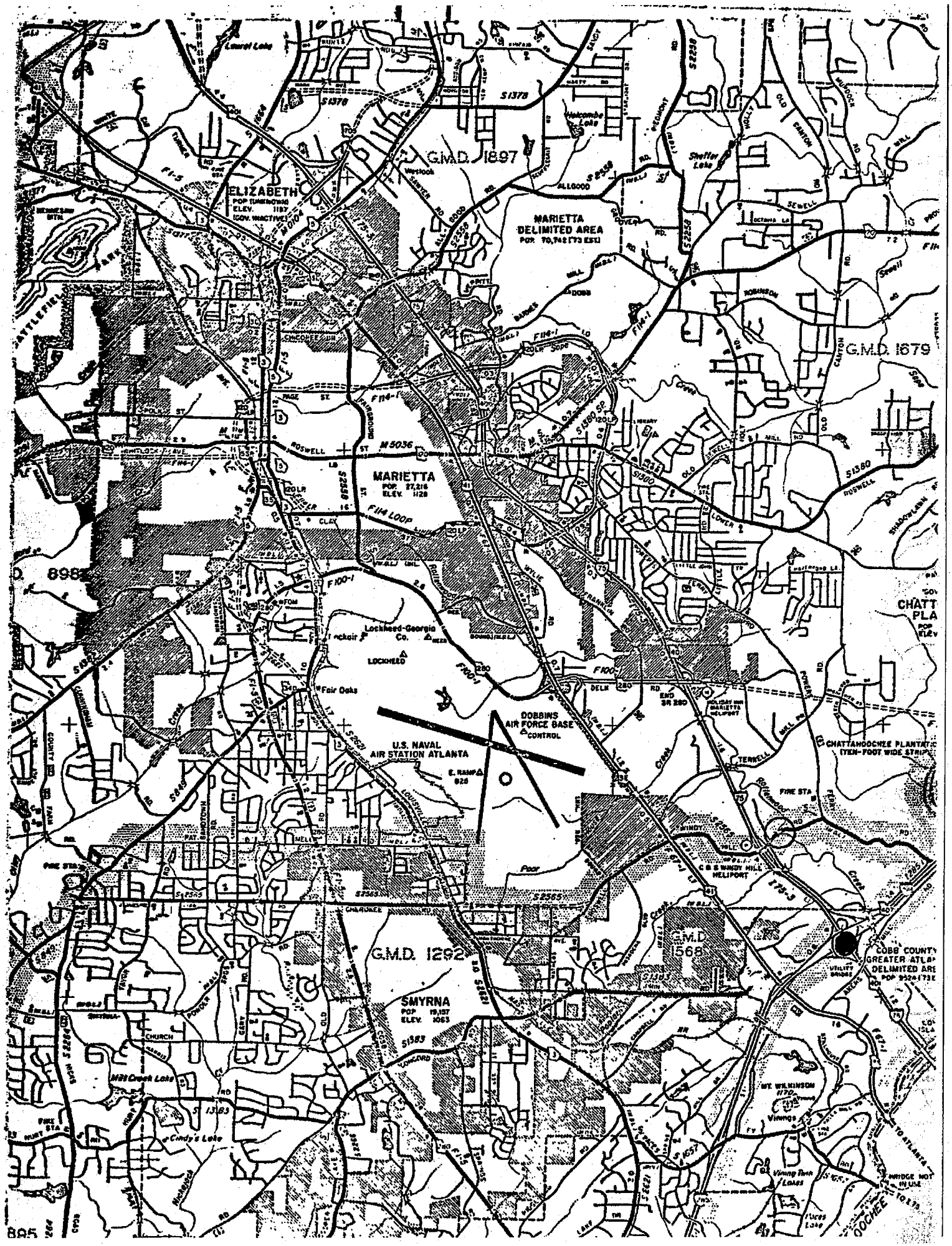
PDO should be Driving Resistance upon achievement of the indicated minimum tip elevations.

5. Pile Tip Protection - If steel "H" piles are driven at the end bents, these piles should be fitted with "Pruyn" or equal driving points due to the presence of boulders in the existing fills.

Reported By:
Jim Stivender, CE II

JDS/mw

December 8, 1976


ELIZABETH
MARIETTA DELIMITED AREA
G.M.D. 1897
G.M.D. 1679
MARIETTA
Lockheed-Georgia Co.
LOCKHEED
Fair Oaks
DOBBINS AIR FORCE BASE
CONTROL
U.S. NAVAL AIR STATION ATLANTA
CHATTAHOOCHEE PLANTATION (TEN-FOOT WIDE STRIP)
G.M.D. 1292
G.M.D. 1568
SMYRNA
COBB COUNTY GREATER ATLANTA DELIMITED AREA
Mill Creek Lake
Cindy's Lake
Vining Twin Lakes
Holcombe Lake
Shaffer Lake
Laurel Lake
Westlook
Vinings
MT. WILKINSON
CHATT PLA

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-75-3 (66) 273 COUNTY Cobb DATE 11-2-76

LOCATION I-75 & I-285 Interchange BORING NO. 1

BENT NO. 1 FOOTING ℄ Offset 15' Bk. GROUND ELEV. 891.35

PROPOSED FOOTING ELEV. _____ PARTY CHIEF Bowling

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	∅	BC	LL	PI	% 200	% CLAY	e
	Gr. El. 7														
890	Medium Dense Mitc. Micas Sandy Silt W/ Boulders														
		1u													
		2s	17												
	Same	3s	16												
880		4s	16												
	(Highly W/R)	5s	18												
	Boulder	6s	60												
	Medium Dense Highly														
870	Micas Sandy Silt	7s	20												
	Medium Dense	8s	22												
	Micas Sandy Silt (Highly W/R)														
860		9s	34												
	Dense Micas Sandy Silt (Highly W/R)														
	Medium Dense Mitc.	10s	14												
	Micas Sandy Silt														
850	Dense Mitc. Micas	11s	42												
	Sandy Silt (Hard R. Layers)														
	Very Stiff Brown	12s	21												
	Silty Sandy Clay														
840	Medium Dense Brown	13s	16												
	Clayey Silty Sand														
		14s	27												
	Dense Mitc. Highly														
	Micas Sandy Silt														
830															

Cont.

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT _____ COUNTY _____ DATE _____

LOCATION _____ BORING NO. Cont. 1

BENT NO. _____ FOOTING _____ GROUND ELEV. _____

PROPOSED FOOTING ELEV. _____ PARTY CHIEF _____

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY	e
	Very Dense Gray Silt. Micas Sandy Silt (SM) W/R														
	Practical Refusal On Rock														
820															
810															

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA

SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-285-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION Station 632+87.15 I-75 & I-285 Interchange BORING NO. 63

BENT NO. FOOTING GROUND ELEV. 855.22

PROPOSED FOOTING ELEV. PARTY CHIEF McMichen

ELEV.	BORING LOG		BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø
	Ground Elevation												
	Red Clay and Saprolite												
850		1S	16										
	Reddish Sandy Mica Silt												
	Gr. Sdy. Sit, & Grav.	2S	13										
	Gray Sandy Sap. & Gravel: Hard Drilling												
840													
	Soft Rock: Very Hard Drilling												
	22' Refusal-Rock												
830													
820													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-285-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION I-75 & I-285 Interchange Station 632+87.15 BORING NO. 64

BENT NO. FOOTING GROUND ELEV. 848.18

PROPOSED FOOTING ELEV. PARTY CHIEF McMichen

ELEV.	BORING LOG		BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø
850	Ground Elevation												
	Red & Tan Sandy Clay & Saprolite												
840	Yellowish Decom. Feldspar w/ Sap.	1S	12										
	Decom. Feldspar w/ Part. Quartz	2S	32										
830	Gray Decom. Granite w/ Mica: Very Hard Drilling	3S	40=6"										
	(Wet Mat.) Gray Decom. Granite	4S	33=6"										
	Boulder												
820	Hard Drilling												
	Soft Rock: Very Hard Drilling												
	31' Refusal - Rock												
810													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA

SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-285-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION I-75 & I-285 Interchange Station 632+87.15 BORING NO. 65

BENT NO. FOOTING GROUND ELEV. 863.88

PROPOSED FOOTING ELEV. PARTY CHIEF McMichen

ELEV.	BORING LOG		BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø		
	Ground Elevation														
	Red Clay														
860	Yellow Sandy Saprolite														
	Gray Sandy Mica Silt & Sap. Sli. Hard Drilling														
850	Gray Saprolite Mica. Hard Drilling														
840	22' Refusal Rock														
830															

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA

SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-285-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION I-75 & I-285 Interchange Station 632+87.15 BORING NO. 66

BENT NO. FOOTING GROUND ELEV. 857.43

PROPOSED FOOTING ELEV. PARTY CHIEF McMichen

ELEV.	BORING LOG	BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø
860	Ground Elevation											
	Red Clay, Sap. & Mica											
	Yellow Sandy Mica Silt w/ Saprolite											
850	Gray Sandy Mica Silt Soft Drilling											
	Gray Sandy Sap.											
840	High in Mica Hard Drilling											
	Moist Material Layers of Soft Rock: Very Hard Drilling											
830	30' Refusal Rock											

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-285-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION I-75 & I-285 Interchange Station 632+87.15 BORING NO. 67

BENT NO. FOOTING GROUND ELEV. 852.57

PROPOSED FOOTING ELEV. PARTY CHIEF McMichen

ELEV.	BORING LOG		BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø
	Ground Elevation												
850	Red Clay												
	Reddish Silty Clay and Mica												
	Gray Sand Mica Silt												
840	Same as above	1S	16										
	Dark Gray Sandy Mica Silt: Very Hard Drilling												
	Boulder												
830	Soft Rock Very Hard Drilling												
	(Wet Soupy Mat.) Dk. Gry. Sdy. Mica Silt												
	Soft Rock: Very Hard Drilling												
820	31' Refusal Rock												

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA

SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-285-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION I-75 & I-285 Interchange Station 632+87.15 BORING NO. 68

BENT NO. FOOTING GROUND ELEV.

PROPOSED FOOTING ELEV. PARTY CHIEF McMichen

ELEV.	BORING LOG		BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø
	Ground Elevation												
	Silt & Red Clay	1S	24										
860	Red Sandy Mica Silt and Clay												
	Gray Mica Silt	2S	16										
850	Gray Sandy Mica Silt with Saprolite - Hard Drilling												
	Wet Material	3S	40										
840	see note no. 1												
	see note no. 2												
	Soft Rock Hard Drilling												
	Refusal - Rock												
830													
820													

#1 Note: Gray Decomposed Granite & Mica

#2 Note; Gray Soupy Sandy Mica Silt and Saprolite - Hard Drilling

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA

SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-285-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION I-75 & I-285 Interchange Station 632+87.15 BORING NO. 69

BENT NO. " FOOTING _____ GROUND ELEV. _____

PROPOSED FOOTING ELEV. _____ PARTY CHIEF McMichen

ELEV.	BORING LOG	BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø
	Ground Elevation											
	Red Clay and Silt											
850	Reddish Silty Clay and Mica											
	Gray Sandy Mica Silt-Soft Drilling											
840	Gray Sandy Mica Silt w/ Saprolite (Wet Material)											
	Gray Soupy Sandy Mica Silt-Hard Drilling											
830	Soft Rock											
	Refusal - Rock											
820												
810												

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-185-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION I-75 & I-285 Interchange Station 632+87.15 BORING NO. 71

BENT NO. FOOTING GROUND ELEV.

PROPOSED FOOTING ELEV. PARTY CHIEF McMichen

ELEV.	BORING LOG	BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø
	Ground Elevation											
860	Red Clay											
	Reddish Silty Clay, Saprolite and Mica											
850	Gray Sandy Mica Silt w/ Saprolite											
	Hard Boulder											
	Wet Gray Mica Silt											
840	Boulders											
	Gray Soupy Sandy Mica Silt with Layers of Soft Rock											
	Refusal - Rock											
830												
820												

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND RESEARCH, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-285-1 (16) 88 COUNTY Cobb DATE 1961

LOCATION I-75 & I-285 Interchange Station 632+87.15 BORING NO. 72

BENT NO. FOOTING GROUND ELEV.

PROPOSED FOOTING ELEV. PARTY CHIEF McMichen

ELEV.	BORING LOG		BLOW	UNIFIED	γ	W	Gs	% 200	% CLAY	LL	PI	C	ø		
	Ground Elevation														
860	Red Clay and Saprolite	1S	15												
	Tan Sandy Silt and Mica	2S	13												
850	Gray Sandy Mica Silt	3S	8												
	Gray Mica Silt with Decomposed Feldspar	4S	13												
840	Gray Mica Silt w/Decom. Feldspar (wet)														
	Refusal - Rock														
830															
820															

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-75-3 (66) 273 COUNTY Cobb DATE 11-2-76

LOCATION I-75 & I-285 Interchange BORING NO. 8

BENT NO. 4 FOOTING ℄ Offset 15' Fwd. GROUND ELEV. 887.72

PROPOSED FOOTING ELEV. _____ PARTY CHIEF Bowling

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY	e
	Gr.El.														
	Medium Dense Mitc. Micas Sandy Silt														
880		1u													
	Medium Dense	2s	17												
		3s	24												
			15												
	Mitc. Micas	5s	13												
870		6s	14												
	Grly. Sandy Silt	7s	15												
	Medium Dense Red Clayey Sandy Silt	8s	11												
860	Medium Dense	9s	17												
		10s	12												
850	Mitc. Micas														
		11s	13												
	Sandy Silt														
	Dense Same (Highly W/R)	12s	30												
840	V.Dse Grly Sdy Slt (Slt W/R)														
	Practical Refusal On Rock														

STATE HIGHWAY DEPARTMENT OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE I-285-1 (16) 88 Fulton - Cobb (Const.)
I-407-1 (4) Fulton - Cobb (P.E.)

OFFICE Atlanta, Georgia

DATE January 27, 1961

FROM W. F. Abercrombie, Engineer of Materials and Tests

TO C. A. Marmelstein, State Highway Bridge Engineer

SUBJECT: Bridge Foundations
Bridges 4A and 4B
I-75 and I-285 Interchange
Cobb County

Attached are boring logs for these structures.

The boring for these structures show fairly dense to loose micaceous silts overlying rock. This bridge would appear to be applicable to poured caissons of the McKinney type. An alternate to this type foundation is steel end bearing piles for the intermediate bents and either steel end bearing piles or concrete friction piles for the end bents.

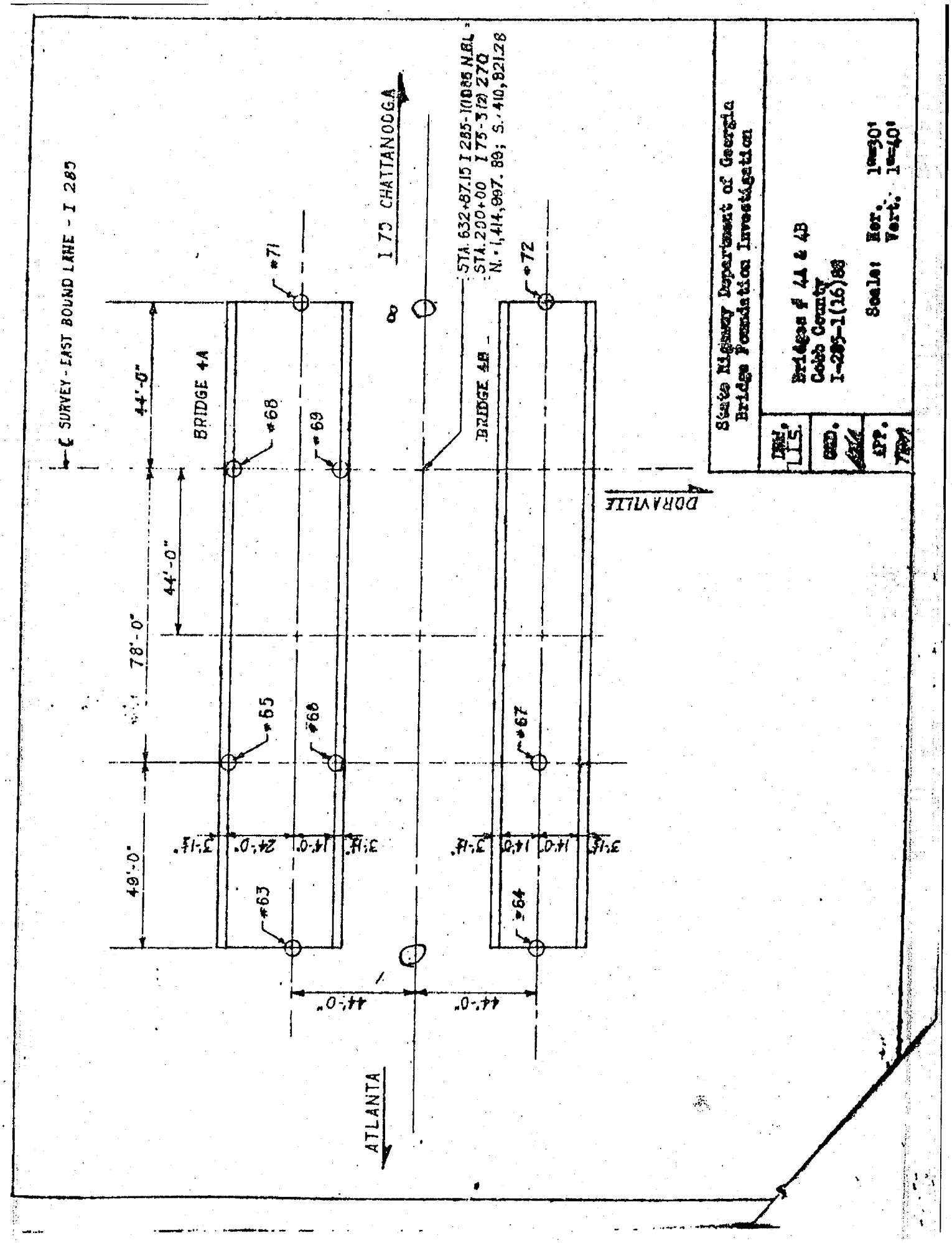
We suggest a cost comparison be made between concrete caissons and steel end bearing piles. We suggest that, if used, the caissons be founded at our refusal line and be designed at not more than 20,000 pounds per square foot bearing pressure.

If friction piles are used in any bent, then the grading should be done a minimum of six months before piles are driven. If piles are driven to rock or if caissons founded on rock are used, then the interval will probably not be necessary.

Yours very truly,

W. F. Abercrombie
Engineer of Materials and Tests

WFA:TDM:rb


℄ SURVEY - EAST BOUND LANE - I 285
I 75 CHATTANOOGA
STA. 632+87.15 I 285-1(1)85 N.B.L.
STA. 200+00 I 75-3(2) 270
N. = 1,414,997.89; S. = 410,821.28
BRIDGE 4A
BRIDGE 4B
#71
#72
#68
#69
#65
#66
#67
#63
#64
44'-0"
44'-0"
78'-0"
49'-0"
3'-1½"
24'-0"
14'-0"
3'-1½"
3'-1½"
14'-0"
14'-0"
3'-1½"
44'-0"
44'-0"
DORAVILLE
ATLANTA
State Highway Department of Georgia
Bridge Foundation Investigation
Bridges # 4A & 4B
Cobb County
I-285-1(16)88
Scale: Hor. 1"=30'
Vert. 1"=40'
DRN. LIS.
CHKD.
APP.

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 632+87.15

LOCATION I-75 & I-285 Interchange Mac McMichen

BORING NO. 63 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	S		REMARKS
	Gr. El. 855.22													
	Red Clay and Saprolite													
850		1-S	16											
	Reddish Sandy Mica Silt													
	See Note	2-S	13											Note: Grey Sandy Silt and Gravel
840	Grey Sandy Sap. & Gravel; Hard Drilling													
	Soft Rock; Very Hard Drilling													
	22' Refusal-Rock													
830														
820														

AVE PILE TIP ELEV.
TEST PILE TIP ELEV. 1 1/2 Tons

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

RERORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 632+87.15

LOCATION I-75 & I285 Interchange Mc

BORING NO. 64 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s		REMARKS
850														
	Gr. El. 848.18 Red and Tan Sandy Clay & Saprolite													
840	Yellowish Decom. Feldspar w/ Sap.	1-S	12											
	Decom. Feldspar w/ Part. Quartz	2-S	32											
830	Grey Decom. Granite w/ Mica; Very Hard Drilling	3-S	40 = 6"											
	(Wet Material) Grey Decom. Granite	~~4-S~~	~~33 = 6"~~											
	Boulder													
820	Hard Drilling													
	Soft Rock; Very Hard Drilling													
	31' Refusal-Rock													
810														

PILE TIP ELEV.
TEST PILE TIP ELEV. 99.5 Tons

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

RERORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 632+87.15

LOCATION I-75 & I-285 Interchange

BORING NO. 65 DATE Nc

ELEV.	BORING LOG	SAM-PLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s	.	REMARKS
	Gr. El. 863.88													
860	Red Clay													
	Yellow Sandy Saprolite													
	Grey Sandy Mica Silt & Sap. Slightly Hard Drilling													
850	Grey Saprolite & Mica. Hard Drilling													
840	22' Refusal- Rock													
														AVE. PILE TIP ELEV.
830														

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

RERORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 632+87.15

LOCATION I-75 & I-285 Mc

BORING NO. 66 DATE

ELEV.	BORING LOG	SAM-PLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s		REMARKS
860	Gr. El. 857.43 Red Clay, Sap. & Mica Yellow Sandy Mica Silt w/ Saprolite													
850	Grey Sandy Mica Silt Soft Drilling													
840	Grey Sandy Sap. High in Mica Hard Drilling													
830	(Moist Material) Layers of Soft Rock; Very Hard Drilling													
	30' REFUSAL Rock													

AVE. PILE TIP ELEV.

TEST PILE TIP ELEV.

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

RERORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. ~~XXXXX~~ I-285-1(16)88 COUNTY Cobb

STATION NO. 632+87.15

LOCATION I-75 & I-285 Interchange MC

BORING NO. 67 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s	REMARKS
	Gr. El. 852.57												
	Red Clay												
850	Reddish Silty Clay & Mica												
	Grey Sand Mica Silt												
	Same as Above	1-S	16										
840	Dark Grey Sandy Mica Silt; Very Hard Drilling												
	Boulder												
	Soft Rock Very Hard Drilling												
830	(Wet Soupy Mat.) Dk. Grey Sandy Mica Silt												
	Soft Rock; Very Hard Drilling												
820	31' Refusal-Rock												

AVE. PILE TIP ELEV. LT. FTG.
TEST PILE TIP ELEV. RT. FTG.
AVE PILE TIP ELEV. RT. FTG.

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

RERORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 632+ 87.15

LOCATION I-75 & I-285 Interchange

BORING NO. 68 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s		REMARKS
	Ground Elev.													
860	Silt & Red Clay Red Sandy Mica Silt and Clay	1s	24											
	Grey Mica Silt													
850	Grey Sandy Mica Silt with Saprolite-Hard Drilling	2s	16											
840	Wet Material See Note #1 See Note #2	3s	40											#1 Note: Grey Decomposed Granite & Mica #2 Note: Grey Soupy Sandy Mica Silt and Saprolite — Hard Drilling
	Soft Rock Hard Drilling													
830	Refusal-Rock													
820														

AVE. PILE TIP ELEV.

TEST PILE TIP ELEV.

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

RERORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 632 + 87.15

LOCATION I-75 & I-285 Interchange

BORING NO. 69 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	Ø	q	BC	e	.s		REMARKS
	Ground Elev.													
	Red Clay and Silt													
850	Reddish Silty Clay and Mica													
	Grey Sandy Mica Silt-Soft Drilling													
840	Grey Sandy Mica Silt w/ Saprolite (set material)													
	Grey Soupy Sandy Mica Silt-Hard Drilling													
830	soft rock													
	Refusal -- Rock													
820														
810														

AVE PILE TOP ELEV.

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

RERORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 632 + 87.15

LOCATION I-75 & I-285 Interchange

BORING NO. 71 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s		REMARKS
	Ground Elev.													
860	Red Clay													
	Reddish Silty Clay, Saprolite and Mica													
8504	Grey Sandy Mica Silt w/ Saprolite													
	Hard Boulder													
	Wet Grey Mica Silt													
840	Boulders													
	Grey Soupy Sandy Mica Silt with Layers of Soft Rock													
	Refusal-Rock													
830														
820														

TEST PILE TIP ELEV.

FORM H. D. 496

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REROART OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285—1(16)88 COUNTY Cobb

STATION NO. 632 + 887.15

LOCATION I-75 & I-285 Interchange

BORING NO. 72 DATE

ELEV.	BORING LOG	SAM-PLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	S		REMARKS
	Ground Elev.													
860	Red Clay and Saprolite	1s	15											
	Tan Sandy Silt and Mica	2s	13											
850	Grey Sandy Mica Silt	3s	8											
	Grey Mica Silt with Decomposed Feldspar	4s	13											
840	Grey Mica Silt w/ Decomp. Feldspar (wet													
	Refusal-Rock													
														AVE. PILE TIP ELEV.
														TEST PILE TIP ELEV
830														
820														

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 7
Inspection Date: 05/01/99
Inspection Area: 09
Bridge Inspector: JMC
Over: I-285 RAMP CBL CD
Bridge Status: 04
Location ID: 067-00401D-258.79N
County: Cobb
Structure ID: 067-0066-0
Road Name: I-75

EVALUATION & DEFICIENCIES

SubStructure:
Year Painted: 0000

All concrete units - caps and 10 columns per bent.

The ladder was used to inspect the caps at bent 2 and 3 during 5-99 inspection.

Cracks in both abutments caps.

Bent #2 original (NBL) cap has minor cracks over column #7 and #8 rear.

Bent #2 original (SBL) cap has minor cracks over column #2 rear.

Bent #3 original (NBL) cap has minor cracks at random.

Bent #3 original (SBL) cap has minor cracks over column #2 and #3 rear.

HS-20

SuperStructure:
Year Painted: 1995

3 span continuous steel beam (28 beams per span). Painted in 1995.

The ladder was used to inspect the beam ends and bearings at bent 2 and 3 during 5-99 inspection.

Minor corrosion on bearings at both abutments due to poor paint job in 1995.

Some anchor bolts have corroded off at both abutments but bearings are still functioning.

Minor vertical cracks in concrete diaphragms in original two bridges.

HS-20

Deck:
7 1/2" concrete slab.

Heavy deck cracking (transverse) in original decks top and bottom.

Several deck spalls in spans #1 and #2 (SBL).

Joints are leaking in some places.

HS-20

General:
Built in 1963 project # - I-75-3 (18) 270 ct.2.

Widened in 1979 project # -I-FI-75-3 (66) 273 ct.2.

Widened in 1997 project #IM=NH=75-3(205)

Metal S.I.P. deck forms in widening sections.

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

EVALUATION & DEFICIENCIES

General: - Cont.

Tapered cover plates with square ends - ends not welded.

Condition Rating

Component	Material	Rating
Substructure	Concrete	7
Superstructure	Steel	8
Deck	Concrete	6

Temp Shored: **No**

Truck Type	Gross/H-Mod	HSMod	Tand	3-S-2	Log	Piggy
Calculated Posting	20	25	28	40	36	40
Posting Required						
Existing Posting	00	00	00	00	00	00

Not a School Bus Route

Structure Does Not Require Posting

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 7 **Inspection Date:** 07/01/97 **Inspection Area:** 09
Bridge Inspector: BDH **Over:** I-285 RAMP CBL CD **Bridge Status:** 04
Location ID: 067-00401D-258.79N **County:** Cobb
Structure ID: 067-0066-0 **Road Name:** I-75

EVALUATION & DEFICIENCIES

SubStructure: **Year Painted:** 0000
ALL CONCRETE UNITS - CAPS AND 10 COLUMNS PER BENT

CRACKS IN BOTH ABUTMENTS CAPS.

BENT #2 ORIGINAL (NBL) CAP HAS MINOR CRACKS OVER COLUMN #7 AND #8 REAR.
BENT #2 ORIGINAL (SBL) CAP HAS MINOR CRACKS OVER COLUMN #2 REAR.

BENT #3 ORIGINAL (NBL) CAP HAS MINOR CRACKS AT RANDOM.
BENT #3 ORIGINAL (SBL) CAP HAS MINOR CRACKS OVER COLUMN #2 AND #3 REAR.

SuperStructure: **Year Painted:** 1995
3 SPAN CONTINUOUS STEEL BEAM (28 BEAMS PER SPAN) - PAINTED IN 1995

MINOR CORROSION ON BEARINGS AT BOTH ABUTMENTS DUE TO POOR PAINT JOB IN 1995.

SOME ANCHOR BOLTS HAVE CORRODED OFF AT BOTH ABUTMENTS BUT BEARINGS ARE STILL FUNCTIONING.

MINOR VERTICAL CRACKS IN CONCRETE DIAPHRAGMS IN ORIGINAL TWO BRIDGES

Deck:
7 1/2" CONCRETE SLAB

HEAVY DECK CRACKING (TRANSVERSE) IN ORIGINAL DECKS TOP AND BOTTOM.
SEVERAL DECK SPALLS IN SPANS #1 AND #2 (SBL).

ALL JOINTS ARE LEAKING.

JOINTS AT BOTH ABUTMENTS AND DECK REPAIRS WERE LET WITH PRESENT WIDENING CONTRACT.

General:
BUILT IN 1963 PROJECT # - I-75-3 (18) 270 CT.2
WIDENED IN 1979 PROJECT # - I-FI-75-3 (66) 273 CT.2
WIDENED IN 1997 PROJECT # IM=NH-75-3(205)

METAL S.I.P. DECK FORMS IN WIDENING SECTIONS
TAPERED COVER PLATES WITH SQUARE ENDS - ENDS NOT WELDED.

>>>> NOTE: BRIDGE UNDER WIDENING CONTRACT AT TIME OF INSPECTION,
ROADWAY DATA AND CLEARANCE TO BE UPDATED WITH NEXT INSPECTION.

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

EVALUATION & DEFICIENCIES

Condition Rating

Component	Material	Rating
Substructure	CONCRETE	7
Superstructure	STEEL	8
Deck	CONCRETE	6

Temp Shored: **No**

Truck Type	Gross/H-Mod	HSMod	Tand	3-S-2	Log	Piggy
Calculated Posting	20	25	28	40	36	40
Posting Required						
Existing Posting	00	00	00	00	00	00

Not a School Bus Route

Structure Does Not Require Posting

GEORGIA DEPARTMENT OF TRANSPORTATION

OFFICE OF MAINTAINANCE - BRIDGE DEFICIENCY REPORT

District: 7 **Inspection Date:** 05/01/99 **Inspection Area:** 09
Bridge Inspector: JMC **Over:** I-285 RAMP CBL CD
Location ID: 067-00401D-258.79N **County:** Cobb
Structure ID: 067-0066-0 **Assit. District Engineer:** Mike Malcom

I-75 OVER I-285 RAMP CBL CD ---- 6.7 MI SE OF MARIETTA

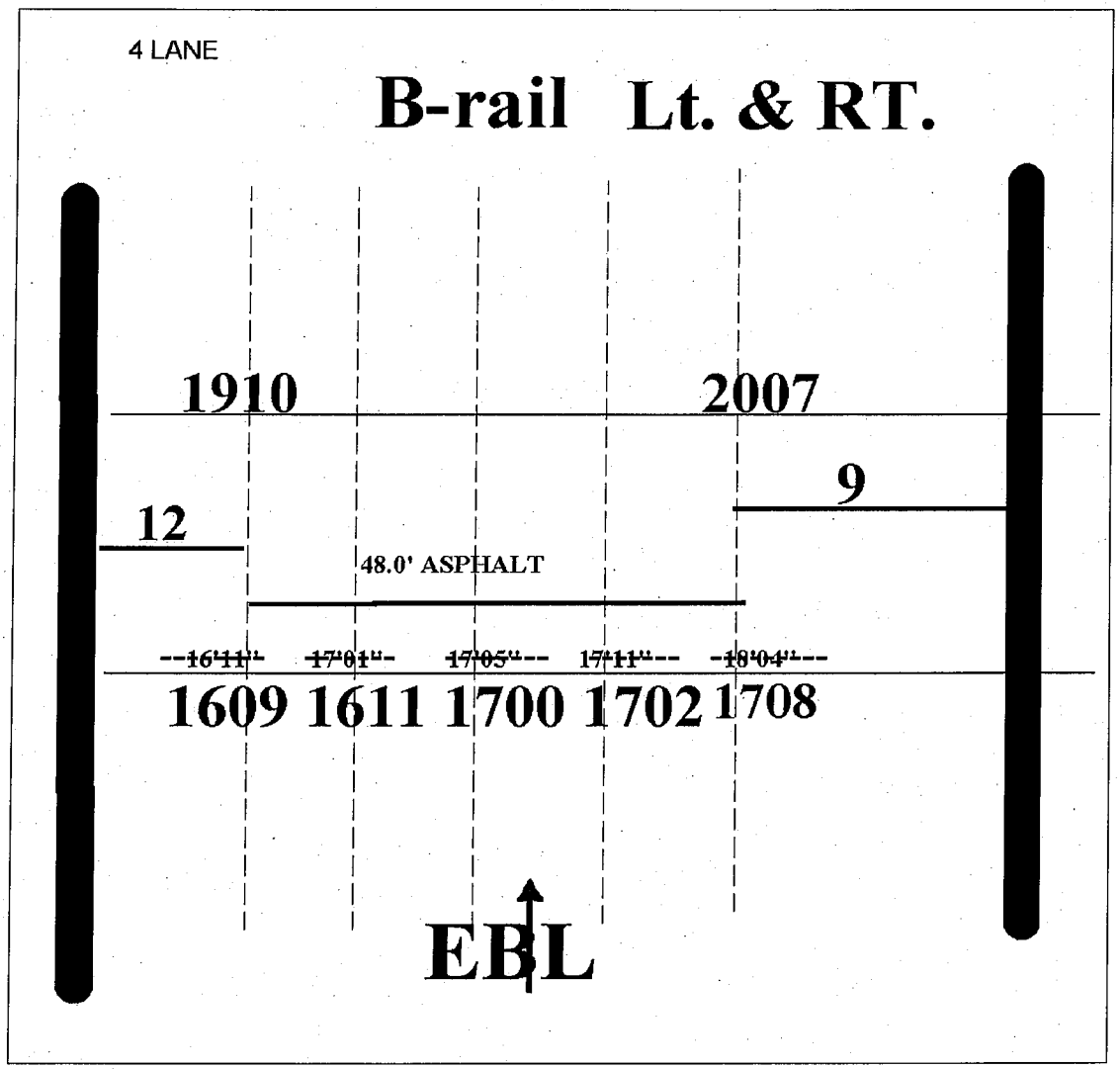
Item	UNITS	Work	P	Date Reported	LOCATION	Date Completed	Complete
824	GAL. PAINT	170	B	05/01/1991		04/01/1995	1431 Days
820	MAN-HRS.	56	B	05/01/1993	Anchor bolts missing		***

Comments:

GEORGIA DEPARTMENT OF TRANSPORTATION

Vertical Clearance Report

District: 7 **Inspection Date:** 05/01/99 **Inspection Area:** 09
Bridge Inspector: JMC **Over:** I-285 RAMP CBL CD
Location ID: 067-00401D-258.79N **County:** Cobb
Structure ID: 067-0066-0 **Skew:** 00



XRef ID: 067-0066-0-A
Min. Clearance Over: 99-99 **Min. Clearance Under:** 16- 9 **Clearance Type:** H
Act Min Vert. Odom: 16- 9 **Post Min Vert Odom:** 0- 0
Act Min Vert. Opp: 99-99 **Post Min Vert. Opp:** 0- 0
Max Min Vert. Clear: 17- 2 **Direction:** 3

Lat Under Clear Right: 9.0 **Left:** 12.0 **Lateral Type:** 7

Ratings-Under Cl Horz/Vert: 7 **Total Horizontal Clearence (ft):** 67.6

Cross Reference Report
Cobb County

Structure ID: 067-0066-0

Location & Geography

* Structure I.D. No.: 067-0066-0-A
* 6A Feature Int.: I-75
* 6B Critical Bridge: 0
* 7A Route Number Carried: SR00407
* 7B Facility Carried: I-285 RMP CBL CD
* 9 Location: 6.7 MI SE OF MARIETTA

* 91 Inspection Frequency: 00 Date: 0000
* 4 Place Code: 00000

* 5 Inventory Route (O/U): 2
Type: 1
Designator: 7
Number: 00285
Direction: 0

* 16 Latitude: 33.53.4
* 17 Longitude: 33.27.6

* 100 Defense Highway: 2
* 101 Parallel Structure: N
* 102 Direction of Traffic: 1
* 104 Highway System: 1
* 26 Functional Classification: 19
* 204 Federal Route Type: I No: 285-1
* 110 Truck Route: 1
* 19 Bypass Length: 4
* 20 Toll: 3
* 21 Maintenance: 01
* 22 Owner: 01

* 27 Year Constructed: 1963

* 42 Type Service On: 1
Under: 1
* 43 Structure Type Main: 4 02

* Location I.D. No: 067-00407R-020.15C
* XReferen I.D. No:

Signs & Attachments

* 240 Median Barrier Rail: 0

* 230 Guardrail Loc Dir Rear: 6
Fwrd: 6
Oppo Dir Rear: 0
Fwrd: 0

Measurements

* 29 ADT: 098906 Year: 1998

* 28 Lanes On: 08 Under: 04

* 48 Max. Span Length: 0078
* 49 Structure Length: 170

* 47 Tot. Horz. Cl: 67.6

* 229 Shlder Width:
Rear Lt: 12.0 Type: 2 Rt: 9.0
Fwrd Lt: 12.0 Type: 2 Rt: 9.0
Pvment Width:
Rear: 48.0 Type: 2
Fwrd: 48.0 Type: 2
Intersection Rear: 1 Fwrd: 1

* 228 Min. Vert. Cl
Act. Odm. Dir: 16' 09"
Oppo. Dir: 99' 99"
Posted Odm. Dir: 00' 00"
Oppo. Dir: 00' 00"

* 10 Max Min Vert Cl: 17' 02" Dir: 3

* 208 Inspection Area: 09 Initials: JMC
* 265 U/W Insp. Area: 0 Diver: ZZZ

Ratings

* 227 Collision Damage: 0

Posting Data

* 103 Temporary Structure: 0

* 248 County Continuity No: 00

JPT/WEI

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **NH-IM-75-3 (195) 01 COBB-FULTON**
I-75/CDL I-285
Bridge No. 10 Right

OFFICE Materials and Research
Forest Park, Georgia
DATE September 22, 1998

DEW

FROM Wouter Gulden, P.E., State Materials and Research Engineer

TO Mitch Fowler, District Engineer, Chamblee

SUBJECT **BRIDGE DECK SURFACE PROFILES (PROFILOGRAPH)**

Profilograph traces have been obtained on the above referenced bridge as requested by project personnel. Traces were obtained in the approximate wheelpath areas throughout the entire bridge length and partial approach slabs.

Project specifications require profile indices not to exceed 15 inches per mile for each lane when tested in accordance with GDT-78 using the 1/10 inch blanking band. Profile indices are as follows:

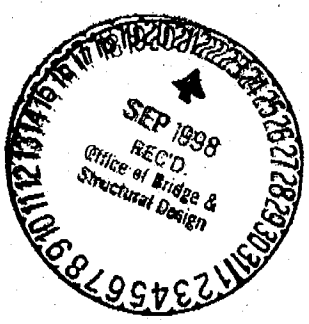
BR. NO.	PROFILE INDICES (RANGE) (IN/MI) BEFORE CORRECTION	PROFILE INDICES (RANGE) (IN/MI) AFTER CORRECTION
10 Right	5.9-23.5	5.9-14.7

Based on these results, no further corrections will be required. Traces are on file at the Office of Materials and Research, Forest Park.

If you need additional information or if we may be of further assistance, please contact Mike Cown in the Concrete Branch at 404-363-7561.

WG:PSW:jlh

c: Paul Mullins, Director of Construction
Thomas L. Turner, State Construction Engineer
Paul Liles, State Bridge and Structural Design Engineer
Mark Weatherby, Area Engineer, Marietta
Rogers Bridge Co., Inc.



DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **NH-IM-75-3 (195) 01 COBB-FULTON**
I-75 NB/I-285 EBL CD
Bridge No. 10 RT, O/S Widening

OFFICE Materials and Research
Forest Park, Georgia

DATE June 11, 1998

FROM Wouter Gulden, P.E., State Materials and Research Engineer

TO Mitch Fowler, District Engineer, Chamblee

SUBJECT **BRIDGE DECK SURFACE PROFILES (PROFILOGRAPH)**

Profilograph traces have been obtained on the above referenced bridge as requested by project personnel. Traces were obtained in the approximate wheelpath areas throughout the entire bridge length and partial approach slabs.

Project specifications require profile indices not to exceed 15 inches per mile per lane when tested in accordance with GDT-78 using the 1/10 inch blanking band. Profile indices from this bridge are as follows:

BR. NO.	PROFILE INDICES (RANGE) (IN/MI) BEFORE CORRECTION	PROFILE INDICES (RANGE) (IN/MI) AFTER CORRECTION
10	29.8-34.0	2.8-11.4

Based on these results, no further corrections will be required. Traces are on file at the Office of Materials and Research, Forest Park.

In accordance with Section 500.11C.6.e., two tests per bridge will be performed at no cost to the contractor. Our records indicate a third acceptance test was conducted on May 15, 1998 and the contractor should be assessed a cost of $500 per test.

If further information is required, please contact Mike Cown in the Concrete Branch at (404) 363-7561.

WG/PSW/jlh

c: Paul Mullins, Director of Construction
Tom Turner, State Construction Engineer
Paul Liles, State Bridge and Structural Design Engineer
Mark Weatherby, Area Engineer, Marietta
Rogers Bridge Co., Inc.

JPT/WEL

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **NH-IM-75-3 (195) 01 COBB-FULTON**
I-75 NB/I-285 EBL CD
Bridge No. 10 Rt. O/S Widening

OFFICE Materials and Research
Forest Park, Georgia
DATE September 22, 1998

FROM Wouter Gulden, P.E., State Materials and Research Engineer

TO Mitch Fowler, District Engineer, Chamblee

SUBJECT **BRIDGE DECK SURFACE PROFILES (PROFILOGRAPH)**

Profilograph traces have been obtained on the above referenced bridge as requested by project personnel. Traces were obtained in the approximate wheelpath areas throughout the entire bridge length and partial approach slabs.

Project specifications require profile indices not to exceed 15 inches per mile for each lane when tested in accordance with GDT-78 using the 1/10 inch blanking band. Profile indices are as follows:

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Based on these results, no further corrections will be required. Traces are on file at the Office of Materials and Research, Forest Park.

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If you need additional information or if we may be of further assistance, please contact Mike Cown in the Concrete Branch at 404-363-7561.

WG:PSW:jlh

c: Paul Mullins, Director of Construction
Thomas L. Turner, State Construction Engineer
Paul Liles, State Bridge and Structural Design Engineer
Mark Watherby, Area Engineer, Marietta
Rogers Bridge Co., Inc.

COBB
067 - 00401 D - 258.79 N

067-0066-0

PHOTO'S: _____

SHEET'S: 20

BRIDGE INVENTORY FORM

REPLACING ____ CO.NO. ____ S.R. ____ ODO. ____
REPLACED BY ____
ADDITIONAL ☐ REVISED ☐ DELETE ☐

HR Std = 258 79 N I-75

FIELD DIVISION NO. 6 COUNTY NO. 033 COUNTY NAME Cobb STATE ROUTE NO. 407

ODOMETER & ORIENTATION 01929 ~~E~~ W U.S. HWY. NO. — FEDERAL ROUTE NO. I-285 PROJECT NO. I-285-1(16)88 CT-5

BRIDGE CARRYING RAMP OVER I-285 VERTICAL CLEAR C.B.L. OPEN NO GA. STD. NOS. Spdes

TYPE OF BRIDGE SC-S.C. POSTED LOAD LIMIT NONE DESIGN LIVE LOAD H520 YEAR BUILT 1963

BRIDGE LENGTH 133.4 SPAN LENGTHS 1@58.75, 1@42.55 1@32.10 EXP. JOINTS YES ARMORED ☐ OTHER ☒

BRIDGE CULVERTS— STEEL ☐ CONCRETE ☐ TIMBER ☐ BARRELS (NO. SIZE) ____ LENGTH OF CULVERT ____

TRUSS ONLY
TYPE OF TRUSS DECK ☐ PONY ☐ KING POST ☐ THRU ☐ (KNEE-BRACED - YES ☐ NO ☐) MAXIMUM CLEARANCE ____
MINIMUM CLEARANCE ____ FABRICATORS NAME ____ YEAR FABRICATED ____

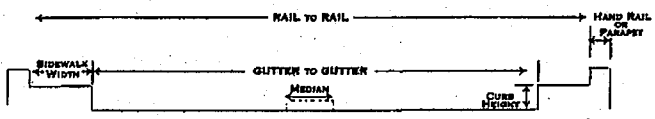
DELINEATORS YES ☒ NO ☐ HAZARD BOARDS YES ☐ NO ☒ SIGNS YES ☐ NO ☒ GUARD RAILS ATTACHED YES ☒ NO ☐

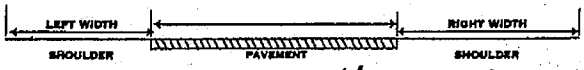
OVERLAY ASPH. ☐ CONC. ☐ THICKNESS NONE YEAR WIDENED NOT RIP RAP PLAIN ☐ SLOPE PAVING ☒ SANDBAG ☐

VEHICLE CAPACITY RATIO ____ A.A.D.T. ____ % TRUCKS ____

No ramp counts available.

REMARKS
SR 407 - W-BOUND - OFF RAMP
ON RAMP - S-BOUND SR 407





RAIL TO RAIL-W 25.05 GUTTER TO GUTTER-W 20.25 CURB-H 1.17
SIDEWALK-W 2.2 MEDIAN-H NONE MEDIAN-W NONE
HANDRAIL OR PARAPET-W 0.33 HANDRAIL TYPE-
AL ☒ CONC. ☐ S. ☐ T. ☐

LT. SHOULDER-W REAR 11' FWD 11'
RT. SHOULDER-W REAR 11' FWD 11'
PAVEMENT-W REAR 17' FWD 17'
PAVEMENT TYPE ASP. ☐ CONC. ☒ NONE ☐

NONE UTILITIES- GAS ☐ WATER ☐ ELEC. ☐ TEL. ☐ SEWER ☐
DIMEN. ( ) ( ) ( ) ( ) ( )
TOP ☐ BOT ☐ LT. ☐ RT. ☐ CENT ☐

SUBSTRUCTURE

UNITS	TYPE			FOUNDATION			COLUMNS			NO	PILING		NO	SWAYER.		TYPE OF CAP			OTHER
	ABUT.	PIER	BT	PFT	SFT	MS	T.	S.	C.		T.	S.	C.	YES	NO	T.	S.	C.	
1	☐	☐	☒	☐	☐	☐	☐	☐	☐		☐	☒	☐	?	☐	☒	☐	☐	☒	
2	☐	☐	☒	☒	☒	☐	☐	☐	☒	2	☐	☐	☐		☐	☐	☐	☐	☒	
3	☐	☐	☒	☒	☒	☐	☐	☐	☒	2	☐	☐	☐		☐	☐	☐	☐	☒	St. H
4	☐	☐	☒	☐	☐	☐	☐	☐	☐		☐	☒	☐	?	☒	☐	☐	☐	☒	
1	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	?	☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐		☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐		☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐		☐	☐	☐	☐	☐	
	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐		☐	☐	☐	☐	☐	

BEARINGS

UNITS	REAR					FWD					OTHER
	FL	ROCK	ROLL	NM		FL	ROCK	ROLL	NM		
1	☒	☐	☐	☐		☐	☐	☐	☐		
2	☒	☐	☐	☐		☒	☐	☐	☐		
3	☒	☐	☐	☐		☒	☐	☐	☐		
4	☐	☐	☐	☐		☒	☐	☐	☐		
	☐	☐	☐	☐		☐	☐	☐	☐		
	☐	☐	☐	☐		☐	☐	☐	☐		
	☐	☐	☐	☐		☐	☐	☐	☐		
	☐	☐	☐	☐		☐	☐	☐	☐		
	☐	☐	☐	☐		☐	☐	☐	☐		

MAIN SUPPORTING MEMBERS

UNITS	TYPE			MATERIAL	NO/SPAN	SPACING	LAT. SUPPORT			OTHER
SPAN	T.	S.	C.				T.	S.	C.	
1	☐	☒	☐	WF	4	5.9	☐	☐	☒	
2	☐	☒	☐	"	"	"	☐	☐	☒	
3	☐	☒	☐	"	"	"	☐	☐	☒	
	☐	☐	☐				☐	☐	☐	
	☐	☐	☐				☐	☐	☐	
	☐	☐	☐				☐	☐	☐	
	☐	☐	☐				☐	☐	☐	
	☐	☐	☐				☐	☐	☐	
	☐	☐	☐				☐	☐	☐	

SUPERSTRUCTURE

SIMPLE ☒ CONTINUOUS ☐ CANTILEVER ☐
RIGID FRAME ☐ ARCH ☐ TUNNEL ☐ PED PASS ☐

STEEL — COMPOSITE ☐ W.F. ☒ PLATE GIRD. ☐ TRUSS ☐ MOVABLE ☐ FL. BEAM SYST. ☐ BOLT ☐ WELD ☐ RIVET ☐

CONCRETE — SLAB ☐ PRECAST GIRD. ☐ T-BEAM ☐ BOX GIRD. ☐ CELLULAR ☐

PRESTRESSED CONCRETE — POST TEN. ☐ PRE-TEN. ☐ GIRDER ☐ SLAB ☐

TIMBER — BEAMS ☐ TRUSS ☐

DECK MAT'L — CONC. ☒ STEEL ☐ TIMBER ☐ GRID ☐

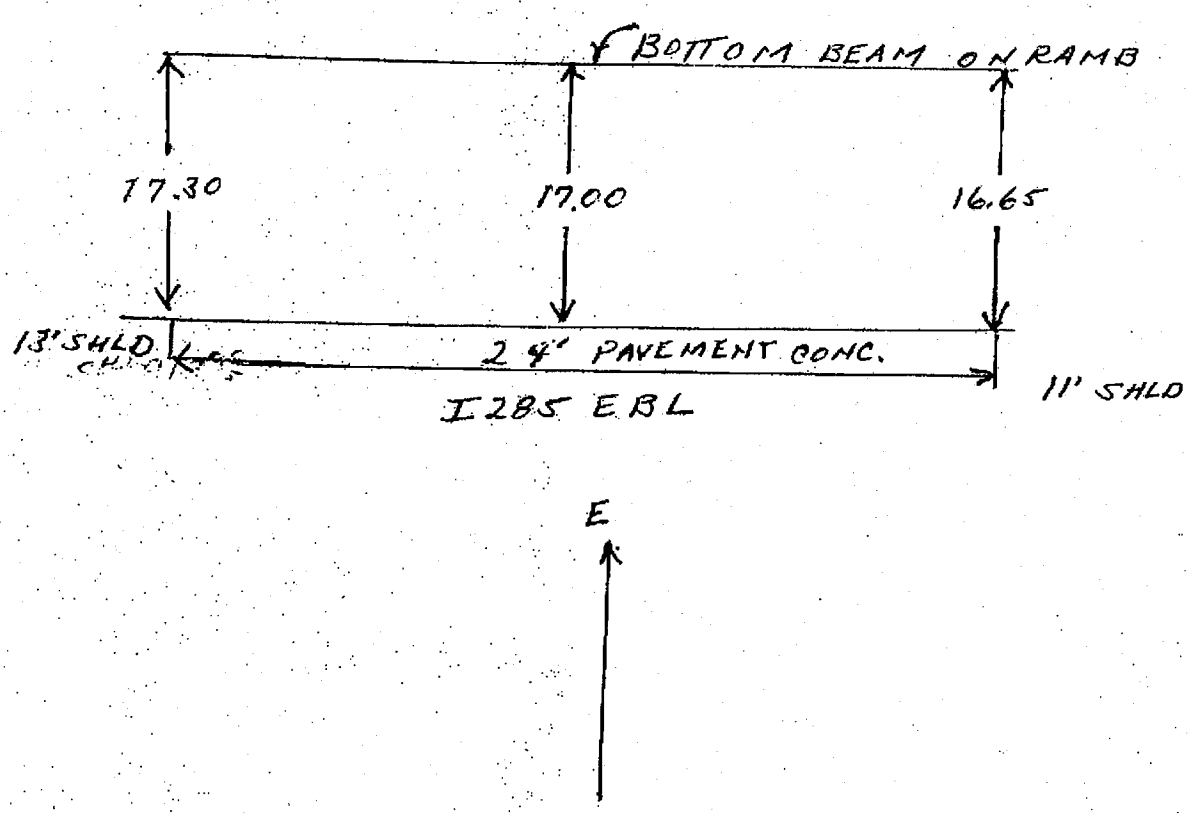
A. Laudermilk RW2 9-3-69
INVENTORY BY TITLE DATE

REVIEWED BY G.O. TITLE DATE

TO COMPUTER DIV ☐ DATE

* SEE REVERSE SIDE

(68)



32.10
58.75
42.55
133.40

D.O.T. 2

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

OFFICE ATLANTA-MAINTENANCE

DATE JULY 28, 1995

FROM LARRY B. SEABROOK, STATE MAINTENANCE ENGINEER

TO PAUL V. LILES, JR., STATE BRIDGE ENGINEER

SUBJECT **KENNEDY INTERCHANGE**
NH-IM-75-3 (195) COBB COUNTY
IM-NH-75-3 (205) COBB COUNTY
P.I. NO. 712800, 712804

AS REQUESTED, A CONDITION SURVEY HAS BEEN PERFORMED ON THE BRIDGES IN THE I-75/I-285 INTERCHANGE AND ON I-75 OVER THE CHATTAHOOCHEE RIVER. FOLLOWING IS AN ITEMIZED LISTING OF THE DEFICIENCIES NOTED ON EACH STRUCTURE.

BRIDGE ID 121-00401-257.28N
STRUCTURE ID 121-0159-0
I-75 OVER CHATTAHOOCHEE RIVER

1). CLEAN AND RESEAL ALL DECK JOINTS.

2). REPAIR DECK SPALLS AT FOLLOWING JOINT LOCATIONS:

BENT #		APPROXIMATE AREA
4	NBL	20 FT^2
6	NBL	10 FT^2
7	NBL	10 FT^2
12	SBL	10 FT^2
13	SBL	20 FT^2
14	SBL	10 FT^2
15	SBL	10 FT^2

3). REPAIR SCOUR AND UNDERMINING OF CONCRETE SPREAD FOOTINGS AT FOLLOWING LOCATIONS:

BENT #	COLUMN	APPROXIMATE AREA
5	1	10 FT^2 @ EAST FACE
5	4	12 FT^2 @ NORTHWEST CORNER
5	6	5 FT^2 @ SOUTH FACE
11	4	5 FT^2 @ NORTHEAST CORNER
14	3	5 FT^2 @ NORTH FACE
14	4	10 FT^2 @ EAST FACE
14	6	20 FT^2 @ NORTH & SOUTH FACE

BENT #	COLUMN	APPROXIMATE AREA
15	1	10 FT^2 @ SOUTH SIDE
15	4	2 FT^2 @ SOUTH SIDE

4). APPROACH SLAB AT SOUTH END OF SBL HAS SETTLED 1 INCH IN RIGHT LANE WITH A SPALL AT THE JOINT WITH ABUTMENT #1. REPAIR OR REPLACE APPROACH SLAB.

BRIDGE ID 067-00401-258.79N
STRUCTURE ID 067-0066-0
I-75 OVER I-285 RAMP EBL CD

1). REPLACE STEEL ARMORED SLIDING PLATE JOINTS AT ABUTMENT #1 AND #4 WITH GENI JOINT.

2). EXTENSIVE TRANSVERSE DECK CRACKING WAS OBSERVED IN THE ORIGINAL DECK SECTIONS IN SPANS #1, #2, AND #3. REFER TO LAB DECK CONDITION SURVEY FOR SPECIFIC RECOMMENDATIONS.

BRIDGE ID 067-00407R-020.01C
STRUCTURE ID 067-0088-0
I-285 RAMP OVER I-285 EBL CD

1). CLEAN AND PAINT STRUCTURAL STEEL.

BRIDGE ID 067-00407-020.04C
STRUCTURE ID 067-0100-0
I-285 OVER I-285 RAMP TO I-75 SOUTH

1). CLEAN AND PAINT STRUCTURAL STEEL.

2). DESIGN DEFLECTION SYSTEM FOR LONGITUDINAL JOINT AT CENTERLINE OF BRIDGE TO KEEP DEBRIS OFF OF BOTTOM FLANGE OF BEAMS AND BEARINGS (SIMILAR TO ONE DESIGNED FOR I-285 OVER CHATTAHOOCHEE).

3). REPLACE EXISTING WABOCRETE JOINT AT BENT #2 (EBL & WBL) WITH GENI JOINT.

4). REPAIR JOINT SPALLS AT ABUTMENT #1 AND #4 AND CLEAN AND RESEAL JOINTS AT ABUTMENT #1 AND #4.

BRIDGE ID 067-00407-020.17C
STRUCTURE ID 067-0101-0
I-285 OVER I-75

1). CLEAN AND PAINT STRUCTURAL STEEL.

2). CLEAN AND SEAL JOINTS AT ABUTMENT #1 AND 4.

3). REPLACE EXISTING WABOCRETE JOINT AT BENT #3 WBL WITH GENI JOINT.

BRIDGE ID 067-00407-20.41C
STRUCTURE ID 067-0106-0
I-285 OVER ROTTENWOOD CREEK

1). CLEAN AND PAINT STRUCTURAL STEEL.

2). REPLACE EXISTING WABOCRETE JOINTS AT ABUTMENT #1 AND #4 WBL AND ABUTMENT #1 EBL WITH GENI JOINT.

3). REPAIR EROSION OF SLOPE AT ABUTMENT #1 AND #4 AND UNDERMINING OF CAPS EXPOSING FOUNDATIONS PILES AT FOLLOWING LOCATIONS:

ABUTMENT	LOCATIONS
1	BETWEEN BEAMS 4-5, 9-10, 12-14
2	BETWEEN BEAMS 8-10, 1-2

4). REPLACE ROLLER BEARING AT ABUTMENT #1, BEAM #8.

BRIDGE ID 067-00407R-020.35C
STRUCTURE ID 067-0105-0
I-285 CD RAMP EBL OVER ROTTONWOOD CREEK

1). CLEAN AND PAINT STRUCTURAL STEEL.

2). CLEAN AND SEAL DECK JOINTS.

3). REPAIR JOINT SPALL AT BENT #2 (APPROXIMATELY 20 FT^2).

IF FURTHER INFORMATION IS REQUIRED ON ANY OF THESE STRUCTURES, PLEASE CONTACT BRIAN K. SUMMERS OF MY OFFICE AT 657-6063.

LBS:BKS:WS

****
* COMPONENT LOAD RATINGS *
****

BRIDGE INSPECTION SECTION
2 INSPECTION AREA # 9
MARIETTA GEORGIA

BRIDGE I.D. # : 067-00401-25879N Cobb County
BRIDGE SERIAL # : 067 - 0066 - 0
* STRUCTURE IS LOCATED OVER STATE ROUTE # 407R @ 2015C .

Field inspection of bridge by : Bobby D. Hogan JMC DATE : 05-91

[CONCRETE DECK] ..... Inventory Condition Code : 6

** HS-LOAD **		<------ AASHTO ------>	** H-LOAD **	
INVENTORY	OPERATING		INVENTORY	OPERATING
36 TON.	51 TON.		20 TON.	28 TON.

[STEEL SUPERSTRUCTURE] ..... Inventory Condition Code : 6
SUP. SPAN LENGTH : 44 FEET.

** HS-LOAD **		<------ AASHTO ------>	** H-LOAD **	
INVENTORY	OPERATING		INVENTORY	OPERATING
38 TON.	58 TON.		29 TON.	43 TON.

[CONCRETE SUBSTRUCTURE] ..... Inventory Condition Code : 7
SUB. SPAN LENGTH : 46 FEET.

** HS-LOAD **		<------ AASHTO ------>	** H-LOAD **	
INVENTORY	OPERATING		INVENTORY	OPERATING
36 TON.	59 TON.		23 TON.	38 TON.

*** OUTPUT DATA ***

>>> STANDARD [AASHTO] LOAD RATINGS <<<

[HS] INVENTORY ... : 36 TON. [H] INVENTORY ... : 20 TON.
[HS] OPERATING ... : 51 TON. [H] OPERATING ... : 28 TON.

INVENTORY CAPACITY IS EQUIVALENT TO [AASHTO] HS- 20 DESIGN. [8]

[COMBINATION TYPE POSTING LOADS]

	>>> MODIFIED POSTING @ 65 % <<<		>> OPERATING <<	>> OVERSTRESS <<
H-LOAD	: 20 .[0]	[ ]	34	<------ 0 %
HS-LOAD	: 25 .[0]	[ ]	56	<------ 0 %
TANDEM	: 28 .[0]	[ ]	49	<------ 0 %
TYPE 3S2	: 40 .[0]	[ ]	82	<------ 0 %
LOGGING TRUCK ..	: 36 .[0]	[ ]	75	<------ 0 %
PIGGY-BACK	: 40 .[0]	[ ]	106	<------ 0 %

*** STRUCTURE DOES NOT REQUIRE POSTING.**

The states legal load limit generates a MAX. OVERSTRESS of [0 %]

THE AVERAGE DAILY TRAFFIC AT THIS SITE = 156150 V.P.D.
STRUCTURAL EVALUATION CODE - ITEM # 67 = 6
BRIDGE POSTING CODE - ITEM # 70 = 5

****
** CONCRETE DECK **
****

BRIDGE I.D. # : 067-00401-25879N Cobb County

* STRUCTURE IS LOCATED OVER STATE ROUTE # 407R @ 2015C.

INVENTORY RATING IS BASED ON A KNOWN DESIGN.

FIELD INSPECTION OF BRIDGE BY : Bobby D. Hogan JMC DATE : 05-91

*** INPUT DATA ***

DESIGN LOAD	:	* STANDARD HS-20 *
DECK THICKNESS	:	7.5 INCHES.
ASPHALT DEPTH	:	0 INCHES.
DECK CLEAR SPAN	:	5.54 FEET.
BEAM FL. WIDTH	:	11.484 INCHES.

*** OUTPUT DATA ***

>>> STANDARD [AASHTO] LOAD RATINGS <<<

[H] INVENTORY ... :	20 TON.	[HS] INVENTORY ... :	36 TON.
[H] OPERATING ... :	28 TON.	[HS] OPERATING ... :	51 TON.

THE DECK INVENTORY CAPACITY IS EQUIVALENT TO [AASHTO] HS- 20 DESIGN.

	>>> MODIFIED POSTING @ 65 % <<<		>> OPERATING <<	>> OVERSTRESS <<
H-LOAD	: 29 TON.	[ ]	34	<------ 0 %
HS-LOAD	: 48 TON.	[ ]	56	<------ 0 %
TRI-AXLE	: 60 TON.	[ ]	70	<------ 0 %
TANDEM	: 58 TON.	[ ]	67	<------ 0 %
TYPE 3S2	: 90 TON.	[ ]	105	<------ 0 %
PIGGY-BACK	: 91 TON.	[ ]	106	<------ 0 %
LOGGING TRUCK ..	: 64 TON.	[ ]	75	<------ 0 %

** POSTING IS NOT REQUIRED.

INSPECTORS COMMENTS :
Bridge has been widened. Calculations for original portion of bridge.

****
* SUPERSTRUCTURE *
****

BRIDGE I.D. # : 067-00401-25879N Cobb County

* STRUCTURE IS LOCATED OVER STATE ROUTE # 407R @ 2015C.

Field Inspection of Bridge BY : Bobby D. Hogan JMC DATE : 05-91

ANALYSIS FOR SPAN # 1 ====> (DESIGN TYPE STEEL BEAM SUPERSTRUCTURE)

INVENTORY LOAD RATING CAPACITY IS BASED ON A KNOWN DESIGN.

ORIGINAL DESIGN LOAD : * STANDARD HS-20 *

*** INPUT DATA ***

SPAN LENGTH	:	44 FEET.
NUMBER OF LANES	:	2
BEAM SPACINGS	:	6.5 FEET.
INPLACE ASPHALT DEPTH .	:	0 INCHES.
BEAM WEIGHT / FOOT	:	118 LBS.
DECK THICKNESS	:	7.5 INCHES.

*** OUTPUT DATA ***

>>> STANDARD [AASHTO] LOAD RATINGS <<<

[H] INVENTORY ... :	29 TON.	[HS] INVENTORY ... :	38 TON.
[H] OPERATING ... :	43 TON.	[HS] OPERATING ... :	58 TON.

SUPERSTRUCTURE INVENTORY CAPACITY IS EQUIVALENT TO [AASHTO] HS- 21 DESIGN.

	>>> MODIFIED POSTING @ 65 % <<<		>> OPERATING <<	>> OVERSTRESS <<
H-LOAD ..... :	39 TON.	[ ]	48	<------- 0 %
HS-LOAD ..... :	51 TON.	[ ]	61	<------- 0 %
TRI-AXLE ..... :	43 TON.	[ ]	52	<------- 0 %
TANDEM ..... :	44 TON.	[ ]	53	<------- 0 %
TYPE 3S2 ..... :	68 TON.	[ ]	82	<------- 0 %
PIGGY-BACK .... :	94 TON.	[ ]	114	<------- 0 %
LOGGING TRUCK .. :	64 TON.	[ ]	77	<------- 0 %

** POSTING IS NOT REQUIRED.

INSPECTORS COMMENTS :
Bridge has been widened. Calculations for original portion of bridge.

****
* SUBSTRUCTURE * ANALYSIS FOR ABUTMENT # 1
****

BRIDGE I.D. # : 067-00401-25879N Cobb County

STRUCTURE IS LOCATED OVER STATE ROUTE # 407R @ 2015C.

Field inspection of bridge by : Bobby D. Hogan IMC DATE : 05-91

*** INPUT DATA ***

ORIGINAL INVENTORY RATING BASED ON A KNOWN DESIGN. * STANDARD HS-20 *

CALCULATIONS FOR CONCRETE ABUTMENT.
NUMBER OF SPANS ON BENT .... : 1
SPAN LENGTH ..... : 46 FEET.
STEEL BEAMS : 118 LBS. / FT. 5 BEAMS.
CONCRETE DECK : 38 FT. WIDE X 7.5 IN. THICK.

*** OUTPUT DATA ***

>>> STANDARD [AASHTO] LOAD RATINGS <<<

[H] INVENTORY ... :	23 TON.	[HS] INVENTORY ... :	36 TON.
[H] OPERATING ... :	38 TON.	[HS] OPERATING ... :	59 TON.

SUBSTRUCTURE INVENTORY CAPACITY IS EQUIVALENT TO [AASHTO] HS- 20 DESIGN.

	>>> MODIFIED POSTING @ 65 % <<<	>> OPERATING <<	>> OVERSTRESS <<
H-LOAD ..... :	33 TON.	[ ] 40	<------ 0 %
HS-LOAD ..... :	50 TON.	[ ] 62	<------ 0 %
TRI-AXLE ..... :	41 TON.	[ ] 51	<------ 0 %
TANDEM ..... :	39 TON.	[ ] 49	<------ 0 %
TYPE 3S2 ..... :	85 TON.	[ ] 106	<------ 0 %
PIGGY-BACK ..... :	125 TON.	[ ] 155	<------ 0 %
LOGGING TRUCK .. :	62 TON.	[ ] 78	<------ 0 %

POSTING IS NOT REQUIRED.

* Inspectors Comments :
Bridge has been widened. - Calc. for ORIGINAL PORTION of bridge.

GEORGIA DEPARTMENT OF TRANSPORTATION

STATE MAINTAINED SYSTEM
BRIDGE CONDITION REPORT

DISTRICT : 7 Insp Area : 9

Bridge Inspector : D.HOGAN BDH D.MEALER Date : 04-95
Location ID # : 067-00401-25879N Over : I-285 & RAMP
Structure ID # : 067-0066-0 County : Cobb County

EVALUATION & DEFICIENCIES

Substructure : (Pile) Paint Code 0

ALL CONCRETE UNITS - CAPS AND COLUMNS - CRACKS IN BOTH ABUTMENTS CAPS AND IN INTERMEDIATE CAPS (MINOR)

Superstructure : Paint Code 1

3 SPAN STEEL BEAM - PAINTED IN 1979 - BRIDGE IS IN PROCESS OF BEING PAINTED AT TIME OF INSPECTION 04-95 - SOME ANCHOR BOLTS HAVE CORRODED OFF AT BOTH ABUTS. MINOR VERTICAL CRACKS IN CONCRETE DIAPHRGAMS IN ORIGINAL TWO BRIDGES

Deck :

7 1/2" CONCRETE SLAB - HEAVY DECK CRACKING (TRANSVERSE) IN ORIGINAL DECKS. MINOR CRACKING ON BOTTOM OF DECK ALSO - DECK SPALLS IN SPANS #1 & #2 (SBL) ALL JOINTS ARE LEAKING

Component	Material	Condition Rating Description	Number	Load Cap.
Substructure	C	G-F	7	HS-20
Superstructure	S	G	8	HS-20
Deck	C	F	6	HS-20

Temporary Shored	
Yes	
No	***

Truck Type	Gross	H-Mod	HSMod	Tand.	3-S-2	Log	Piggy
Calculated Posting	-	20	25	28	40	36	40
Existing Posting	-	-	-	-	-	-	-

Posting Requirements	
Requires Closing	
Requires Posting	
Posting Not Req.	*

General Comments :

BUILT IN 1963 PROJECT # - I-75-3 (18) 270 CT.2
WIDENED IN 1979 PROJECT # - I-FI-75-3 (66) 273 CT.2

METAL S.I.P. DECK FORMS

TAPERED COVER PLATES WITH SQUARE ENDS - ENDS NOT WELDED

GEORGIA DEPARTMENT OF TRANSPORTATION

STATE MAINTAINED SYSTEM
BRIDGE CONDITION REPORT

DISTRICT : 7 Insp Area : 9

Bridge Inspector : D.HOGAN BOH D.MEALER Date : 05-93
Location ID # : 067-00401-25879N OVER : I-285 & RAMP
Structure ID # : 067-0066-0 County : Cobb County

EVALUATION & DEFICIENCIES

Substructure : (Pile) Paint Code 0

ALL CONCRETE UNITS - CAPS & COLUMNS - CRACKS IN BOTH ABUTMENT CAPS

Superstructure : Paint Code 2

3 SPAN STEEL BEAM - PAINTED IN 1979 - CORROSION IN BEARING AREAS WITH SEVERAL ANCHOR BOLTS CORRODED OFF AT BOTH ABUTMENTS - PAINT PEELING THROUGH OUT
MINOR VERTICAL CRACKS IN CONCRETE DIAPHRAGMS IN ORIGINAL TWO BRIDGES

Deck :

7 1/2" CONCRETE SLAB - HEAVY DECK CRACKING (TRANSVERSE) IN ORIGINAL DECKS
SMALL POT HOLES IN SPAN #1&2 DECK (SBL)
ALL JOINTS LEAKING

Component	Material	Condition Rating Description	Number	Load Cap.
Substructure	C	G-F	7	HS-20
Superstructure	S	F	6	HS-20
Deck	C	F	6	HS-20

Temporary Shored	
Yes	
No	***

Truck Type	Gross	H-Mod	HSMod	Tand.	3-S-2	Log	Piggy
Calculated Posting	-	20	25	28	40	36	-
Existing Posting	-	-	-	-	-	-	-

Posting Requirements	
Requires Closing	
Requires Posting	
Posting Not Req.	*

General Comments :

BUILT IN 1963 PROJECT # I-75-3 (18) 270 CT-2
WIDENED IN 1979 PROJECT # I-FI- 75 -3 (66) 273 CT-2

METAL S.I.P. FORMS ON WIDENING

TAPERED COVER PLATES WITH SQUARE END - END NOT WELDED

GEORGIA DEPARTMENT OF TRANSPORTATION

STATE MAINTAINED SYSTEM
BRIDGE CONDITION REPORT

District : 7 Insp Area : 9

Bridge Inspector : JMC - BDH Date : 5-91
Location ID # : 067-00401-25879 N Over : 407 CBL CD
Structure ID # : 067-0066-0 County : COBB

EVALUATION & DEFICIENCIES

Substructure : (Pile) Paint Code _____

ALL CONC.

CRACKS IN BOTH ABUTS.

Superstructure : Paint Code 2

3 SPAN STEEL MULTI-BEAM

CORROSION IN BEARING AREAS & SOME ANCHOR BOLTS HAVE RUSTED OUT.
PAINT PEALING THROUGHOUT.

Deck :

7½" CONC.

MASSIVE DECK CRACKS (TRANSVERSE)
JOINTS LEAK ARMOR & P.S.

Culvert : # of Barrels _____ Size _____

Component	Material	Condition Rating Description	Number	Load Cap.
Substructure	C	GOOD	7	HS-20
Superstructure	S	SAT.	6	HS-20
Deck	C	SAT.	6	HS-20

Temporary Shored	
Yes	
No	✓

Truck Type	Gross	H-Mod	HSMod	Tand.	3-S-2	Log	Piggy
Calculated Posting		20	25	28	40	36	40
Existing Posting	NONE						

Posting Requirements	
Requires Closing	
Requires Posting	
Posting Not Req.	✓

General Comments: _____

GEORGIA DEPARTMENT OF TRANSPORTATION
BRIDGE DEFICIENCY REPORT - DISTRICT: 7

FROM: DALE HOGAN BRIDGE INSPECTOR
TO: MITCH FOWLER ASST. DISTRICT ENGINEER, MAINTENANCE
DEFICIENCIES NOTED FOR STRUCTURE ON STATE ROUTE NO. 401
OVER SR-407 CBL CD IN COBB COUNTY.

BRIDGE IDENTIFICATION NUMBER																				
CO. NO.			ROUTE NO.				DG	ODOMETER						OR	N.GRID			CH	
1		3	4			8	9	10					14	15	16		17	18	
0	6	7	0	0	4	0	1		2	5	8	7	9	N				C	

Serial No. 067-0066-0

ITEM NO.	UNITS	REQ'D WORK (19–23)	P (24)	DATE REPORTED (25–28)	LOCATION	DATE COMPLETE (29–32)	CARD (33–34)	INT.
204	BAGS						01	
402	NUB. INST.						02	
406	MAN-HRS.						03	
404	LIN. FT.						04	
610	MAN-HRS.						05	
612	LIN. FT.						06	
800	LIN. FT.						07	
802	LIN. FT.						08	
804	LIN. FT.						09	
806	SQ. FT.						10	
808	LIN. FT.						11	
810	MAN-HRS.						12	
812	MAN-HRS.						13	
814	MAN-HRS.						14	
816	NO. PILES						15	
801	LIN. FT.						16	
820	MAN-HRS.	00056	B	0593	REPLACE MISSING ANCHOR BOLTS AT BOTH ABUTMENTS OR SECURE BEARINGS		17	
822	GAL.PAINT						18	
824	GAL.PAINT						19	
830	MAN-HRS.						20	
912	MAN-HRS.						21	

COMMENTS:

UPON REPAIR OF ANY OF THE NOTED DEFICIENCIES, PLEASE COMPLETE THIS FORM AND RETURN TO THE GENERAL OFFICE, ROOM 284, FOR FURTHER PROCESSING.

P=PRIORITY CODE
A=REPAIR REQUIRING IMMEDIATE ACTION
B=REPAIR REQUIRING SCHEDULING
C=PREVENTATIVE MAINTENANCE

GEORGIA DEPARTMENT OF TRANSPORTATION
BRIDGE DEFICIENCY REPORT - DISTRICT: 7

FROM: JMC-BDH BRIDGE INSPECTOR
TO: LARRY SEABROOK ASST. DISTRICT ENGINEER, MAINTENANCE
DEFICIENCIES NOTED FOR STRUCTURE ON STATE ROUTE NO. 401
OVER 407 CBL CO IN COBB COUNTY.

BRIDGE IDENTIFICATION NUMBER																	
CO. NO.			ROUTE NO.				DO	ODOMETER					OR	n.mem		CH	
1		9	4			0	9	10				14	15	16	17	18	
0	6	7	0	0	4	0	1		2	5	8	7	9	N			C

Serial No. 067-0066-0

ITEM NO.	UNITS	REQ'D WORK (19–23)	P (24)	DATE REPORTED (25–28)	LOCATION	DATE COMPLETE (30–32)	CARD (33–34)	INT.
204	BAGS						01	
402	NUB. INST.						02	
406	MAN-HRS.						03	
404	LIN. FT.						04	
610	MAN-HRS.						05	
612	LIN. FT.						06	
800	LIN. FT.						07	
802	LIN. FT.						08	
804	LIN. FT.						09	
806	SQ. FT.	00050	B	0591	SEAL TRANSVERSE DECK CRACKS.		10	
808	LIN. FT.						11	
810	MAN-HRS.						12	
812	MAN-HRS.						13	
814	MAN-HRS.						14	
816	NO. PILES						15	
801	LIN. FT.	00200	B	0591	SPOT SEAL DECK JOINTS (SILICONE)		16	
820	MAN-HRS.						17	
822	GAL.PAINT						18	
824	GAL.PAINT	00170	B	0591	CLEAN & PAINT ALL STRUCTURAL STEEL	495	19	BDH
830	MAN-HRS.						20	
912	MAN-HRS.						21	

COMMENTS:

UPON REPAIR OF ANY OF THE NOTED DEFICIENCIES, PLEASE COMPLETE THIS FORM AND RETURN TO THE GENERAL OFFICE, ROOM 284, FOR FURTHER PROCESSING.

P=PRIORITY CODE
A=REPAIR REQUIRING IMMEDIATE ACTION
B=REPAIR REQUIRING SCHEDULING
C=PREVENTATIVE MAINTENANCE

GEORGIA DEPARTMENT OF TRANSPORTATION
BRIDGE DEFICIENCY REPORT - DISTRICT: 7 6-28-89

FROM: William A. Hopkins BRIDGE INSPECTOR
TO: LARRY SEABROOK ASST. DISTRICT ENGINEER, MAINTENANCE
DEFICIENCIES NOTED FOR STRUCTURE ON STATE ROUTE NO. 401 I-75 NBL + SBL
OVER I-285 (C.D. RAMP CBL. IN COBB COUNTY.

BRIDGE IDENTIFICATION NUMBER																		
CO. NO.			ROUTE NO.				DG	ODOMETER						OR			CH	
1		3	4			6	9	10				14	15	16	17		18	
0	6	7	0	0	4	0	1		2	5	8	7	9	N			C	

Serial No. 067-0066-0

ITEM NO.	UNITS	REQ'D WORK (19–23)	P (24)	DATE REPORTED (25–28)	LOCATION	DATE COMPLETE (29–32)	CARD (33–34)	INT.
204	BAGS						01	
402	NUB. INST.						02	
406	MAN-HRS.						03	
404	LIN. FT.						04	
610	MAN-HRS.	00~~020~~	C	0689	25' OF GUARD RAIL DAMAGE ON C.D. UNDER BR. RT. REAR		05	
612	LIN. FT.						06	
800	LIN. FT.	0~~0300~~	C	0689	SEAL DECK JOINTS STARTING TO LEAK (SILICONE)		07	
802	LIN. FT.	0~~0144~~	C	0689	SEAL ARMORED JOINT @ ABUT # 4		08	
804	LIN. FT.						09	
806	SQ. FT.	00500	C	0587	SEAL ALL DECK CRACKS NBL + SBL (TRANSVERSE)		10	
808	LIN. FT.						11	
810	MAN-HRS.						12	
812	MAN-HRS.						13	
814	MAN-HRS.						14	
816	NO. PILES						15	
801	LIN. FT.						16	
820	MAN-HRS.	0~~0028~~	C	0689	RESET ANCHOR BOLTS OLD PORTIN @ BT. # 4 RUSTED OUT, OR IN TOO		17	
822	GAL.PAINT						18	
824	GAL.PAINT	00340	C	0585	CLEAN + PAINT BEAMS + BEARINGS	4 9 5	~~19~~	
830	MAN-HRS.						20	
912	MAN-HRS.						21	

COMMENTS: C-S-C BUILT IN 1963 + COMBINED IN 1979
APPROACH ASPHALT RAVELING + SLIGHTLY ROUGH
+ 0" TO 1" LOW
CLEAN DITCH LINES ON TOP + UNDER BR.

UPON REPAIR OF ANY OF THE NOTED DEFICIENCIES, PLEASE COMPLETE THIS FORM AND RETURN TO THE GENERAL OFFICE, ROOM 284, FOR FURTHER PROCESSING.

P=PRIORITY CODE
A=REPAIR REQUIRING IMMEDIATE ACTION
B=REPAIR REQUIRING SCHEDULING
C=PREVENTATIVE MAINTENANCE

GEORGIA DEPARTMENT OF TRANSPORTATION

BRIDGE DEFICIENCY REPORT - DISTRICT 7

FROM: [illegible], Bridge Inspector DATE: 12-[illegible]

TO: [illegible], Asst. District Engineer, Maintenance

SUBJ: Deficiencies noted for the structure on State Route No. 101

over I-285 EBL Ramp in [illegible] County.

Bridge ID: [illegible] 79

PRIORITY CODE	ITEM NO.	UNITS	REQUIRED	LOCATION	REPAIRS MADE DATE/INITIAL
	422	SQ YD/SLAB			
	442	MAN-HOURS			
	456	LIN FT			
	469	MAN-HOURS			
	470	LIN FT			
	473	LIN FT			
	500	MAN-HOURS			
	501	MAN-HOURS			
	502	SQ FT			
B	503	LIN FT	326	[illegible] Deck Joint	
	504	LIN FT			
	505	MAN-HOURS			
	506	PILES			
	507	LIN FT			
	511	EACH			
	512	MAN-HOURS			
	513	MAN-HOURS			
	523	LIN FT/BR			
	524	GAL PAINT			
B	529	MAN-HOURS	60	[illegible]	

COMMENTS: [illegible]

Substructure : Cond

Superstructure : "

Deck : "

PRIORITY CODES:
A = Repair Requiring Immediate Action
B = Repair Requiring Scheduling
c = Preventative Maintenance

Upon repair of any of the noted deficiencies, please complete this form, and return to me for further processing.

[illegible]
Bridge Inspection Section