

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

**FILE** P.I. # 0011682

**OFFICE** Design Policy & Support

Dade County  
GDOT District 6 - Cartersville  
SR 299 Bridge Replacement @ I-24 -  
Accelerated Bridge Construction

**DATE** March 24, 2014

**FROM**  for Brent Story, State Design Policy Engineer

**TO** SEE DISTRIBUTION

**SUBJECT** APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

**DISTRIBUTION:**

Glenn Bowman, Director of Engineering  
Joe Carpenter, Director of P3/Program Delivery  
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery  
Darryl VanMeter, State Innovative Program Delivery Engineer  
Bobby Hilliard, Program Control Administrator  
Cindy VanDyke, State Transportation Planning Administrator  
Hiral Patel, State Environmental Administrator  
Ben Rabun, State Bridge Engineer  
Kathy Zahul, State Traffic Engineer  
Angela Robinson, Financial Management Administrator  
Lisa Myers, State Project Review Engineer  
Charles "Chuck" Hasty, State Materials Engineer  
Mike Bolden, State Utilities Engineer  
Jeff Fletcher, Statewide Location Bureau Chief  
DeWayne Comer, District Engineer  
Mike Haithcock, District Preconstruction Engineer  
Kerry Bonner, District Utilities Engineer  
Andrew Hoenig, Project Manager  
BOARD MEMBER - 14th Congressional District  
FHWA – attn: Rodney Barry, Georgia Division Administrator

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
PROJECT CONCEPT REPORT**

Project Type: <u>Bridge Replacement</u>	P.I. Number: <u>0011682</u>
GDOT District: <u>6 (Cartersville)</u>	County: <u>Dade</u>
Federal Route Number: <u>N/A</u>	State Route Number: <u>299</u>
Project Number: <u>N/A</u>	

The proposed project will replace the existing, structurally deficient State Route (SR) 299 bridge over Interstate 24 (I-24) in Dade County, Georgia. The bridge will be replaced on the existing alignment using Accelerated Bridge Construction (ABC) techniques. ABC will allow the existing bridge removal and new bridge installation to occur within a time period of 36-48 hours, minimizing the project's impact to the traveling public. The project will be delivered using Design-Build.

**Submitted for approval:**

<u>Wayne G. Mote A. HNTB</u> Consultant Designer & Firm	<u>12-3-13</u> DATE
<u>Darryl D. V-M</u> Office of Innovative Program Delivery	<u>12-9-13</u> DATE
<u>C. Gendron Hanning</u> GDOT Project Manager	<u>12-3-2013</u> DATE

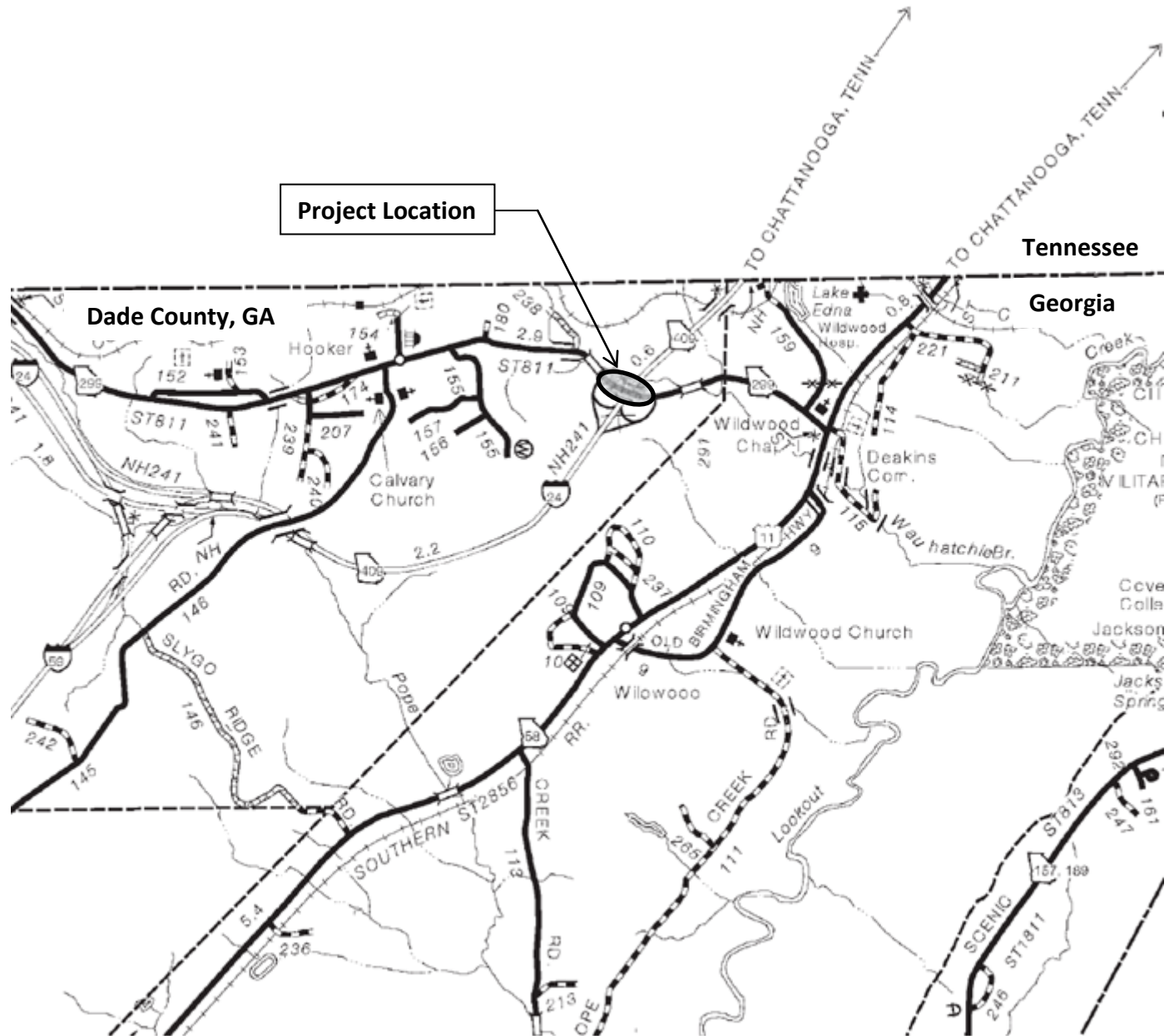
**Recommendation for approval: (Delete any inapplicable signature lines)**

Program Control Administrator	DATE
<u>GLENN BOWMAN*/EKP</u>	<u>12/17/2013</u>
State Environmental Administrator	DATE
<u>KATHY ZAHUL*/EKP</u>	<u>12/30/2013</u>
State Traffic Engineer	DATE
<u>LISA MYERS*/EKP</u>	<u>12/12/2013</u>
Project Review Engineer	DATE
<u>JUN BIRNKAMMER*/EKP</u>	<u>12/13/2013</u>
<b>FOR</b> State Utilities Engineer	DATE
<u>DEWAYNE COMER*/EKP</u>	<u>12/11/2013</u>
District Engineer	DATE
<u>BEN ROBUN*/EKP</u>	<u>12/31/2013</u>
State Bridge Design Engineer	DATE
State Transportation Financial Management Administrator	DATE
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).	
<u>CINDY VAN DYKE*/EKP</u>	<u>12/13/2013</u>
State Transportation Planning Administrator	DATE

*\* - RECOMMENDATION ON FILE*

**PROJECT LOCATION MAP** *(not to scale)*

SR 299 over I-24



County: Dade

**PLANNING AND BACKGROUND**

**Project Justification Statement:** This bridge (Structure ID 083-0020-0; SR 299 over I-24 (SR 409)) was built in 1965. The bridge consists of four spans of steel girders on concrete caps and columns. The overall condition of this bridge is classified as fair. The deck is in fair condition with concrete spalls and heavy transverse cracking throughout. The superstructure is in satisfactory condition with minor deterioration of the steel girders. The substructure is in fair condition with moderate to heavy concrete cracking and signs of rebar deterioration. Due to the structural integrity of the bridge and the condition of the deck resulting in a sufficiency rating below 50, the State Bridge Office recommends replacement of the structure.

For additional project background see the bulleted items below:

- GDOT State Bridge Inspection Engineer prepared the Project Justification Statement (see attached).
- Project is included in USDOT and FHWA's Every Day Counts ([EDC-2](#)) innovations initiative.
- The project originated with Bridge Maintenance.
- Project limits are within existing ramp area and could possibly extended to bridge north of interchange (I-24 over CSX Railroad) due to staging of traffic. Along SR 299, the ramp termini define the ends of the proposed project. The main purpose of the project is to replace the SR 299 bridge over I-24 so there is no reason to extend the project beyond the ramp termini.
- The project aims to correct structural deficiencies. The project will also act as an Accelerated Bridge Construction (ABC) demonstration project. ABC is defined by FHWA as a paradigm shift in the project planning and procurement approach where the need to minimize mobility impacts which occur due to onsite construction activities are elevated to a higher priority. ABC techniques shorten the anticipated construction schedule, and may include replacement of the bridge deck within reduced timeframes.

**Existing conditions:** The existing bridge consists of four spans of steel girders on concrete caps and columns. The overall condition of this bridge is classified as fair. The deck is in fair condition with concrete spalls and heavy transverse cracking throughout. The superstructure is in satisfactory condition with minor deterioration of the steel girders. The substructure is in fair condition with moderate to heavy concrete cracking and signs of rebar deterioration. Due to the structural integrity of the bridge and the condition of the deck the bridge received a sufficiency rating below 50.

**Other projects in the area:** I-24 is currently being repaved under a separate project. Any damage to I-24 during construction will require the Design-Build team to repave I-24 in those areas where damage occurs.

**MPO:** Chattanooga - Hamilton County Regional Planning Agency  
[2014 - 2017 TIP](#) (TIP # GA-0011682), [CHCRPA List of Projects, 2012](#)

MPO Project ID: 0011682

**Regional Commission:** Northwest Georgia RC

RC Project ID: N/A

**Congressional District(s):** 14



County: Dade

**Federal Oversight:** ☒ Full Oversight ☐ Exempt ☐ State Funded ☐ Other**Projected Traffic:** ADT**SR 299** - Current Year (2013): 7,000 Open Year (2015): 7,400 Design Year (2035): 12,900**I-24** - Current Year (2013): 61,500 Open Year (2015): 62,700 Design Year (2035): 79,400

Traffic Projections Performed by: HNTB Corporation

**Functional Classification (Mainline):** Rural Major Collector**Complete Streets - Bicycle, Pedestrian, and/or Transit Warrants:**Warrants met: ☒ None ☐ Bicycle ☐ Pedestrian ☐ Transit

Warrants are not met for bicycle, pedestrian, or transit along the SR 299 corridor.

- The project is not on a state, regional, or local bike route.
- No pedestrian facilities are within the project limits.
- There are no active transit stops within the project limits.

**Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project?** ☒ No ☐ Yes**DESIGN AND STRUCTURAL**

**Description of the proposed project:** The proposed project [P.I. No. 0011682] will replace the existing, structurally deficient State Route (SR) 299 bridge over Interstate 24 (I-24) in Dade County, Georgia. This overpass is approximately 0.6 miles south of the Georgia/Tennessee state line at the I-24 Exit 169 interchange. The bridge will be replaced on the existing alignment using Accelerated Bridge Construction (ABC) techniques. ABC will allow the existing bridge removal and new bridge installation to occur within a time period of 36-48 hours, minimizing the project's impact to the traveling public. The project will be delivered using Design-Build.

Project length is approximately 0.16 miles along SR 299. Existing SR 299 right-of-way (ROW) is slightly variable ranging from 200 feet on the west side of I-24 to 255 feet on the east side of I-24. The existing bridge is 34'-3" wide and 240 feet long and accommodates one lane of traffic in each direction. The proposed bridge will have the same number of lanes, but will be widened to meet current AASHTO requirements. All approach work to accommodate the bridge widening will be limited to SR 299 between the I-24 ramp terminals. No additional ROW or easement will be required for the removal of the existing bridge or the construction of the new bridge.

The I-24 depressed median and inside the loop ramps may be utilized for construction staging and/or I-24 traffic shifts. The temporary median construction area may extend up to 0.39 miles north and south of the SR 299 bridge and will be confined within the existing outside edge of pavement limits.

County: Dade

**Major Structures:**

Structure	Existing	Proposed
SR 299 over I-24	242 feet long. 34'-3" wide (total) 28'-0" (c to c). Four spans.	242 feet long. 43'-3" wide (total); 40'-0" (curb to curb; 2 twelve foot travel lanes, 2 eight foot shoulders). It is anticipated that the proposed bridge will have four spans but the final design will be determined by the design build team.

**Mainline Design Features: SR 299**

Feature	Existing	Standard*	Proposed
<b>Typical Section</b>			
- Number of Lanes	2	2	2
- Lane Width(s)	12 ft.	11-12 ft.	12 ft.
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder or Border Area Width	8-10 ft.	8 ft.	8-10 ft.
- Outside Shoulder Slope	2:1 to 4:1	2:1 to 4:1	2:1 to 4:1
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	N/A	N/A	N/A
- Bike Lanes	N/A	N/A	N/A
Posted Speed	45 mph		45 mph
Design Speed	45 mph	45 mph	45 mph
Min Horizontal Curve Radius	818.51 ft.	587 ft.**	818.51 ft.
Superelevation Rate	5-7%	2-8%***	5-7%
Grade	1%-6%	7% max	1%-6%
Access Control	N/A	N/A	N/A
Right-of-Way Width	200 feet on west side to 250 feet on the east side	N/A	200 feet on west side to 250 feet on the east side
Maximum Grade – Crossroad	N/A	N/A	N/A
Design Vehicle	WB-67	WB-67	WB-67

\*According to current GDOT design policy if applicable

\*\* For the design situation 587 ft. is the minimum curve radius but 643 ft. is preferred by GDOT.

\*\*\* For the design situation 8% is the maximum superelevation rate but 6% is preferred by GDOT.

County: Dade

**Sideroad Design Features: I-24 (Crossover Detour Only – 45 MPH Detour Design Speed)**

Feature	Existing	Standard*	Proposed
<b>Typical Section</b>			
- Number of Lanes	4	4-6	4
- Lane Width(s)	12 ft.	12 ft.	12 ft.
- Median Width & Type	64 ft. Depressed	52-64 ft. Depressed	64 ft. Depressed
- Outside Shoulder or Border Area Width	12 ft.	14 ft.	12 ft.
- Outside Shoulder Slope	2:1 to 4:1	2:1 to 6:1	2:1 to 4:1
- Inside Shoulder Width	10 ft.	12 ft.	10 ft.
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	2 Ramps	N/A	2 Ramps
- Bike Lanes	N/A	N/A	N/A
Posted Speed	65 mph		65 mph
Design Speed	65 mph	65 mph	65 mph
Min Horizontal Curve Radius	2864 ft.	1810 ft.	2864 ft.
Superelevation Rate	1.04 - 4.00%	2.00 - 8.00%	1.04 - 4.00%
Grade	1.00 – 3.00%	5% max	1.00 – 3.00%
Access Control	Limited	Limited	Limited
Right-of-Way Width	490 ft.	N/A	490 ft.
Maximum Grade – Crossroad	N/A	N/A	N/A
Design Vehicle	WB-67	WB-67	WB-67

\*According to current GDOT design policy if applicable

**Major Interchanges/Intersections:** This bridge replacement is State Route 299 over Interstate 24/State Route 409. This interchange is Exit 169 on Interstate 24.

**Lighting required:** ☒ No ☐ Yes

**Off-site Detours Anticipated:** ☐ No ☐ Undetermined ☒ Yes

An off-site detour will be utilized on this project. This detour will need to be in place for up to 56 hours (9:00 PM Friday through 5:00 AM Monday) during the weekend bridge replacement. Due to the lack of availability of nearby State Routes for the detour, County roads may need to be utilized to accommodate the detour. A detour meeting will be hosted by the awarded Design-Build team 30 days prior to the detour.

**Transportation Management Plan [TMP] Required:** ☐ No ☒ Yes

If Yes: Project classified as: ☒ Non-Significant ☐ Significant

TMP Components Anticipated: ☒ TTC ☐ TO ☒ PI

County: Dade

**Design Exceptions to FHWA/AASHTO controlling criteria anticipated:**

<b>FHWA/AASHTO Controlling Criteria</b>	<b>No</b>	<b>Undeter -mined</b>	<b>Yes</b>	<b>Appvl Date (if applicable)</b>
1. Design Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Lane Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Shoulder Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Bridge Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Horizontal Alignment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Superelevation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Vertical Alignment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Grade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Stopping Sight Distance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Cross Slope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Vertical Clearance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Lateral Offset to Obstruction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Bridge Structural Capacity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Design Variances to GDOT Standard Criteria anticipated:**

<b>GDOT Standard Criteria</b>	<b>Reviewing Office</b>	<b>No</b>	<b>Undeter- -mined</b>	<b>Yes</b>	<b>Appvl Date (if applicable)</b>
1. Access Control - <i>Median Opening Spacing</i>	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Median Usage & Width	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Intersection Skew Angle	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Lateral Offset to Obstruction	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Intersection Sight Distance	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Bike, Pedestrian & Transit Accommodations	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. GDOT Drainage Manual	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Georgia Standard Drawings	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. GDOT Bridge & Structural Manual	Bridge Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Roundabout Illumination	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Rumble Strips	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Safety Edge	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**VE Study anticipated:**☒ No☐ Yes☐ Completed – Date:



County: Dade

**UTILITY AND PROPERTY**

**Temporary State Route needed:** ☐ No ☐ Yes ☒ Undetermined

**Railroad Involvement:** Not Applicable

**Utility Involvements:** There are existing telecommunications attached to the bridge. Subsurface Utility Engineering (SUE) will be performed in the vicinity of the project to identify all utilities that may be affected. Due to the minimal timeframe for the project, utility relocation prior to Design Build (DB) contract may be beneficial.

**SUE Required:** ☐ No ☒ Yes

**Public Interest Determination Policy and Procedure recommended (Utilities)?**

☐ No ☒ Yes

**Right-of-Way:**

Required Right-of-Way anticipated: ☒ No ☐ Yes ☐ Undetermined

Easements anticipated: ☒ None ☐ Temporary ☐ Permanent ☐ Utility ☐ Other

Anticipated number of impacted parcels:

Displacements anticipated:

Total:

Businesses:

Residences:

Other:

**Location and Design approval:** ☒ Not Required ☐ Required

**CONTEXT SENSITIVE SOLUTIONS**

**Issues of Concern:** Detour – Due to the potential for closing the ramps during construction the recommended route from GA 299 and I-24 West Exit 169 Ramp termini to GA 299 and I-24 East Exit 169 Ramp termini increases from an approximately 0.2 mile or 1 minute trip to an approximately 28 mile or 41 minute trip by way of GA 299 to GA 58 to TN 2 to TN 134 to GA 299. Additionally, in the opposite direction the detour will be approximately 28 miles or 41 minutes from GA 299 and the I-24 East Exit 169 Ramp termini to GA 299 and I-24 West Exit 169 Ramp termini by way of GA 299 to TN 134 to TN 2 to GA 58 to GA 299. Additionally the State has identified a 2<sup>nd</sup> route using the interstate. Detailed detour maps and directions are provided in the attachments section of this report. Shorter routes exist if county roads are utilized. The detour will be in place for a weekend or up to 56 hours (9:00 PM Friday through 5:00 AM Monday).

**Context Sensitive Solutions:** Public Outreach is anticipated for the detour route. This public meeting may be expanded to educate the public on the scope of the project and what benefits will be expected with replacing the bridge using ABC techniques. Public outreach may need to be targeted to the trucking industry due to the high volume of trucks in the corridor. Additionally, coordination with the county will take place to see if using county roads for the detour is feasible.

County: Dade

**ENVIRONMENTAL & PERMITS****Anticipated Environmental Document:**GEPA: ☐NEPA: ☒ CE☐ EA/FONSI☐ EIS**MS4 Compliance – Is the project located in an MS4 area?**☒ No☐ Yes**Environmental Permits/Variations/Commitments/Coordination anticipated:**

Permit/ Variance/ Commitment/ Coordination Anticipated	No	Yes	Remarks
1. U.S. Coast Guard Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Forest Service/Corps Land	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. CWA Section 404 Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Tennessee Valley Authority Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Objection Determination was received on 9/11/2013
5. Buffer Variance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Coastal Zone Management Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. NPDES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	May be eliminated depending on Design-Build team's proposed design
8. FEMA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Cemetery Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Other Permits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Other Commitments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Clearing restriction from March 1 to October 31 of each year
12. Other Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trucking industry, TnDOT

**Is a PAR required?**☒ No☐ Yes☐ Completed – Date:**Environmental Comments and Information:**

**NEPA/GEPA:** NEPA Categorical Exclusion (CE) is anticipated and on schedule for Spring 2014 approval.

**Ecology:** No impacts to waters of the US, state waters, protected flora or fauna are anticipated. No Section 404, TVA Section 26a, or Stream Buffer Variance is anticipated.

**History:** No historic resources were identified within the proposed project's area of potential effect.

**Archeology:** No archaeological resources were located within the project's area of potential effect. SHPO concurrence is not required.

County: Dade

**Air Quality:**

Air Special studies are anticipated to be write-off memos.

Is the project located in a PM 2.5 Non-attainment area? ☒ No ☐ YesIs the project located in an Ozone Non-attainment area? ☒ No ☐ YesIs a Carbon Monoxide hotspot analysis required? ☒ No ☐ Yes**Noise Effects:**

Noise Special studies are anticipated to be write-off memos.

**Public Involvement:** Public Outreach is anticipated for the detour route. This public meeting may need to be expanded to educate the public on the scope of the project and why there is a benefit to replacing the bridge using ABC techniques. A PIOH will be held December 3, 2013 to give the public an anticipated schedule. A separate detour meeting will be hosted by the DB Team closer to the time of the detour.

**Major stakeholders:** Additional coordination may be needed with Chattanooga and TennDOT.

**CONSTRUCTION****Issues potentially affecting constructability/construction schedule:**

- Due to the potential presence of several endangered bat species, clearing restrictions are in place from March 1<sup>st</sup> through October 31<sup>st</sup>.
- An off-site detour will be required for the weekend closure of SR 299.
- An on-site crossover of I-24 may be required depending on the method of ABC construction utilized by the Design-Build team.
- Bird netting may be utilized as an exclusionary device to prevent phoebes and swallows from nesting beneath the existing bridge.

**Early Completion Incentives recommended for consideration:** ☐ No ☒ Yes

**COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS**

**Initial Concept Meeting:** - The project kickoff meeting also served as the ICM. The meeting was held on April 17, 2013. The following items were discussed at the ICM: project scope, expectations, methods of ABC construction, anticipated schedule, environmental risks, utility relocations, Design-Build requirements, and potential industry outreach.

**Concept Meeting:** The project Concept Meeting was held on October 9, 2013. The follow items were discussed: The Project Layout, Design and Structural Data, Design-Build Best Value, the NEPA schedule, the Transportation Management Plan, Utilities relocations, the anticipated Detour Route, Weekend closure timeframe, and the Weekend closure impacts to gas stations on SR 299.

**Other coordination to date:** N/A

County: Dade

**Project Activities:**

<b>Project Activity</b>	<b>Party Responsible for Performing Task(s)</b>
Concept Development	HNTB Corporation
Design	Design-Build team
Right-of-Way Acquisition	N/A
Utility Relocation	Design-Build team
Letting to Contract	Office of Innovative Program Delivery
Construction Supervision	Office of Construction
Providing Material Pits	Design-Build team
Providing Detours	Design-Build team
Environmental Studies, Documents, and Permits	HNTB Corporation
Environmental Mitigation	Design-Build team
Construction Inspection & Materials Testing	Office of Materials and Testing

**Project Cost Estimate and Funding Responsibilities:**

	<b>Breakdown of PE</b>	<b>ROW</b>	<b>Utility</b>	<b>CST*</b>	<b>Environmental Mitigation</b>	<b>Total Cost</b>
By Whom	GDOT	N/A	GDOT	HNTB	GDOT	
\$ Amount	\$737,000	N/A	\$75,000	\$4,776,358	\$0.00	\$5,588,358
Date of Estimate	FY 2014	N/A	11/26/2013	12/2/2013	N/A	

\*CST Cost includes: Construction, Engineering and Inspection, and Liquid AC Cost Adjustment.

**ALTERNATIVES DISCUSSION****Alternative selection:**

<b>Preferred Alternative:</b> Bridge Replacement utilizing ABC			
<b>Estimated Property Impacts:</b>	<b>0</b>	<b>Estimated Total Cost:</b>	<b>\$5.59 M</b>
<b>Estimated ROW Cost:</b>	<b>\$0</b>	<b>Estimated CST Time:</b>	<b>18 months</b>
<b>Rationale:</b> ABC minimizes the impact to the traveling public by only closing the bridge for up to 56 hours			

<b>No-Build Alternative:</b> Leave existing bridge in place			
<b>Estimated Property Impacts:</b>	<b>0</b>	<b>Estimated Total Cost:</b>	<b>\$0</b>
<b>Estimated ROW Cost:</b>	<b>\$0</b>	<b>Estimated CST Time:</b>	<b>N/A</b>
<b>Rationale:</b> This alternative was not selected as it does not accomplish the goals of the project.			

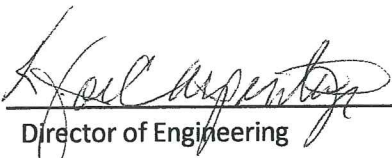
<b>Alternative 1:</b> Bridge Replacement with on-site or off-site detour using traditional construction methods.			
<b>Estimated Property Impacts:</b>	<b>2</b>	<b>Estimated Total Cost:</b>	<b>\$5.61 M</b>
<b>Estimated ROW Cost:</b>	<b>\$300,000</b>	<b>Estimated CST Time:</b>	<b>24 months</b>
<b>Rationale:</b> This alternative was not selected due to the high cost of construction, an on-site detour (ROW and construction costs) and the undesirable situation of a lengthy off-site detour as the detour is in excess of 28 miles. An onsite detour would also likely result in undesirable impacts to streams.			

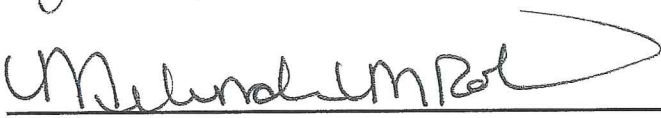
County: Dade

**Attachments:**

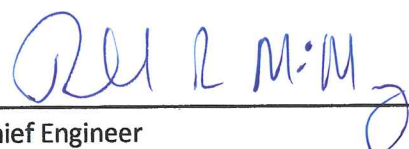
- A. Conceptual Layout and Recommended Sequence of Construction
- B. Construction Cost Estimate
- C. Utility Cost Estimate
- D. Traffic diagrams
- E. Bridge inventory
- F. Recommend Detour Map
- G. Initial Concept Meeting Minutes
- H. Concept Meeting Minutes
- I. Project Justification Statement Coordination with the GDOT State Bridge Inspection Engineer
- J. Public Involvement Open House Synopsis

**APPROVALS**

Concur:  1/14/2014  
Director of Engineering

Approve:   
for Division Administrator, FHWA

2/4/14  
Date

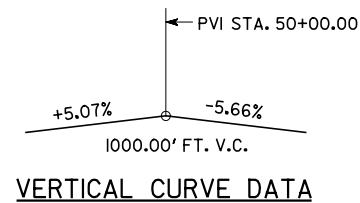
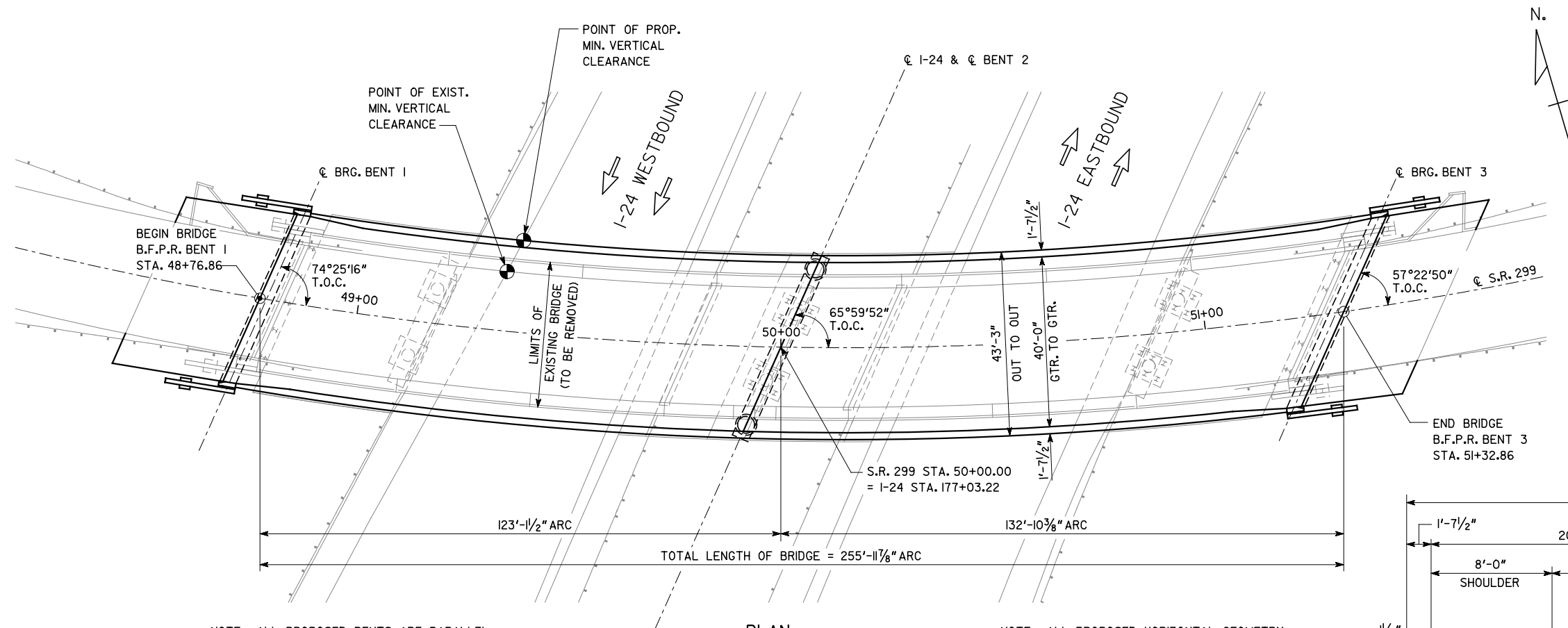
Approve:   
Chief Engineer

3-19-14  
Date

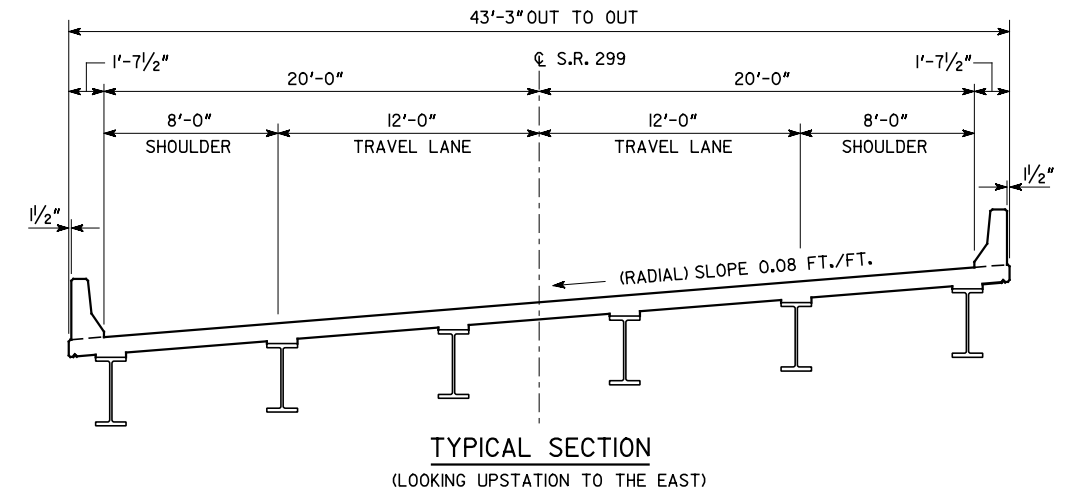
# **Attachment A**

## **Concept Layout**

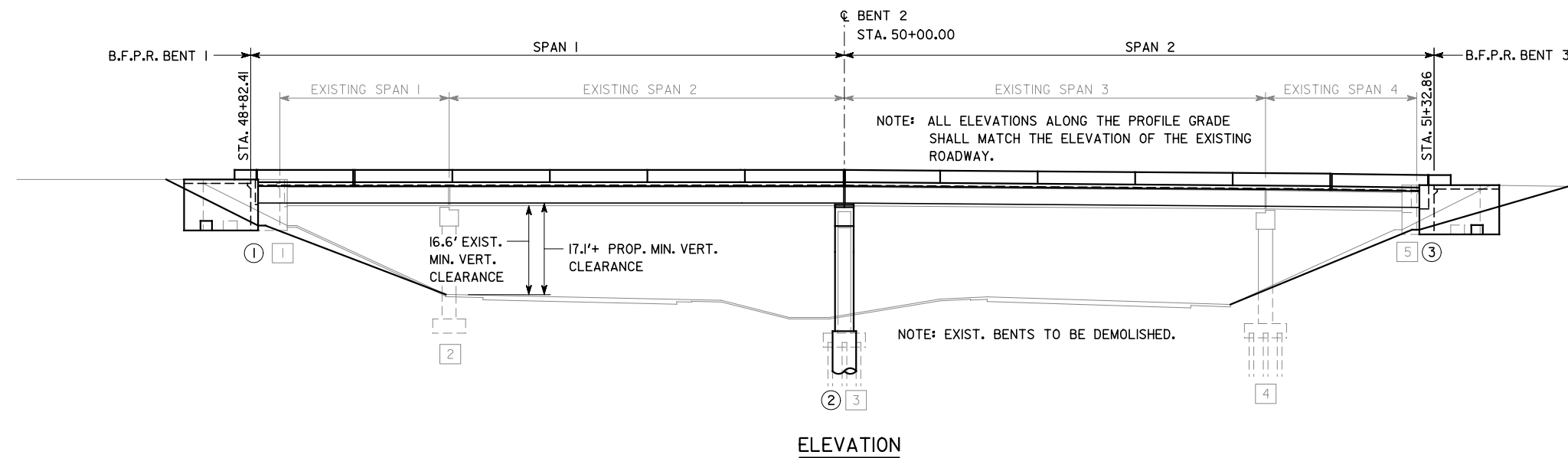





<u>HORIZONTAL CURVE DATA</u>	
<u>S.R. 299 CURVE DATA:</u>	<u>I-24 CURVE DATA:</u>
$\Delta = 70^{\circ}42'56''$ LT.	$\Delta = 22^{\circ}09'20''$ RT.
Dc = $7^{\circ}00'$	Dc = $1^{\circ}30'$
L = $1010.22'$	L = $1477.04'$
T = $560.78'$	T = $747.86'$
R = $818.51'$	R = $3819.72'$
E = $185.11'$	E = $72.52'$



- ### CONSTRUCTION NOTES:
- 1.) NEW BRIDGE TO BE CONSTRUCTED ON EXISTING ROADWAY ALIGNMENT.
  - 2.) NEW BRIDGE STRUCTURE TO BE CONSTRUCTED USING ACCELERATED BRIDGE CONSTRUCTION (ABC) METHODS.
  - 3.) TOTAL CLOSURE OF S.R. 299 TO BE 48 HOURS DURING A WEEKEND CLOSURE.



		 <div> 3715 NORTHSIDE PARKWAY  200 NORTH CREEK, SUITE 800  ATLANTA, GEORGIA 30327 </div>							
		DATE						GEORGIA <b>DEPARTMENT OF TRANSPORTATION</b> PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN	
		REVISIONS							CONCEPT LAYOUT SR 299 OVER I-24  DADE COUNTY
DRAWING NO. 01								SCALE: NO SCALE	
BRIDGE SHEET		BY						DESIGNED _____ DRAWN _____	CHECKED _____ DESIGN GROUP _____
								REVIEWED _____ APPROVED _____	

S.R. 299 OVER I-24 REPLACEMENT

ACCELERATED BRIDGE CONSTRUCTION (ABC)

LEGEND:

- I-24 TRAFFIC FLOW
- CONSTRUCTION ZONE

ACCELERATED BRIDGE CONSTRUCTION STEPS

	BRIDGE ACTIVITY
PRE-ABC STEP 1	SITE PREPARATION; FOUNDATION, MINOR APPROACH, PIERS, AND ABUTMENT CONSTRUCTION ACTIVITIES
ABC PERIOD STEP 2	CLOSE S.R. 299 AND CROSSOVER I-24 EASTBOUND TRAFFIC. REMOVE EXISTING BRIDGE SPANS 3 & 4 AND PLACE NEW BRIDGE SPAN 2.
ABC PERIOD STEP 3	CROSSOVER TRAFFIC I-24 WESTBOUND. REMOVE EXISTING BRIDGE SPANS 1& 2 AND PLACE NEW BRIDGE SPAN 1.
	RE-STORE NORMAL TRAFFIC FLOW ON I-24 EASTBOUND AND WESTBOUND; FINALIZE APPROACH WORK ON S.R. 299
	S.R. 299 RE-OPENS TO TRAFFIC
POST-ABC STEP 4	FINISHING ACTIVITIES ON S.R. 299; SITE CLEAN UP AND RESTORATION, MINOR FINISH WORK ON BRIDGE AND ROADWAY

HNTB

3715 NORTHSIDE PARKWAY  
200 NORTHCREEK, SUITE 800  
ATLANTA, GEORGIA 30327

GEORGIA

DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

PROPOSED CONSTRUCTION SEQUENCE 1 OF 2  
SR 299 OVER I-24

DADE COUNTY

SCALE: SEPTEMBER 2013

DRAWING NO.

BRIDGE SHEET

DESIGNED

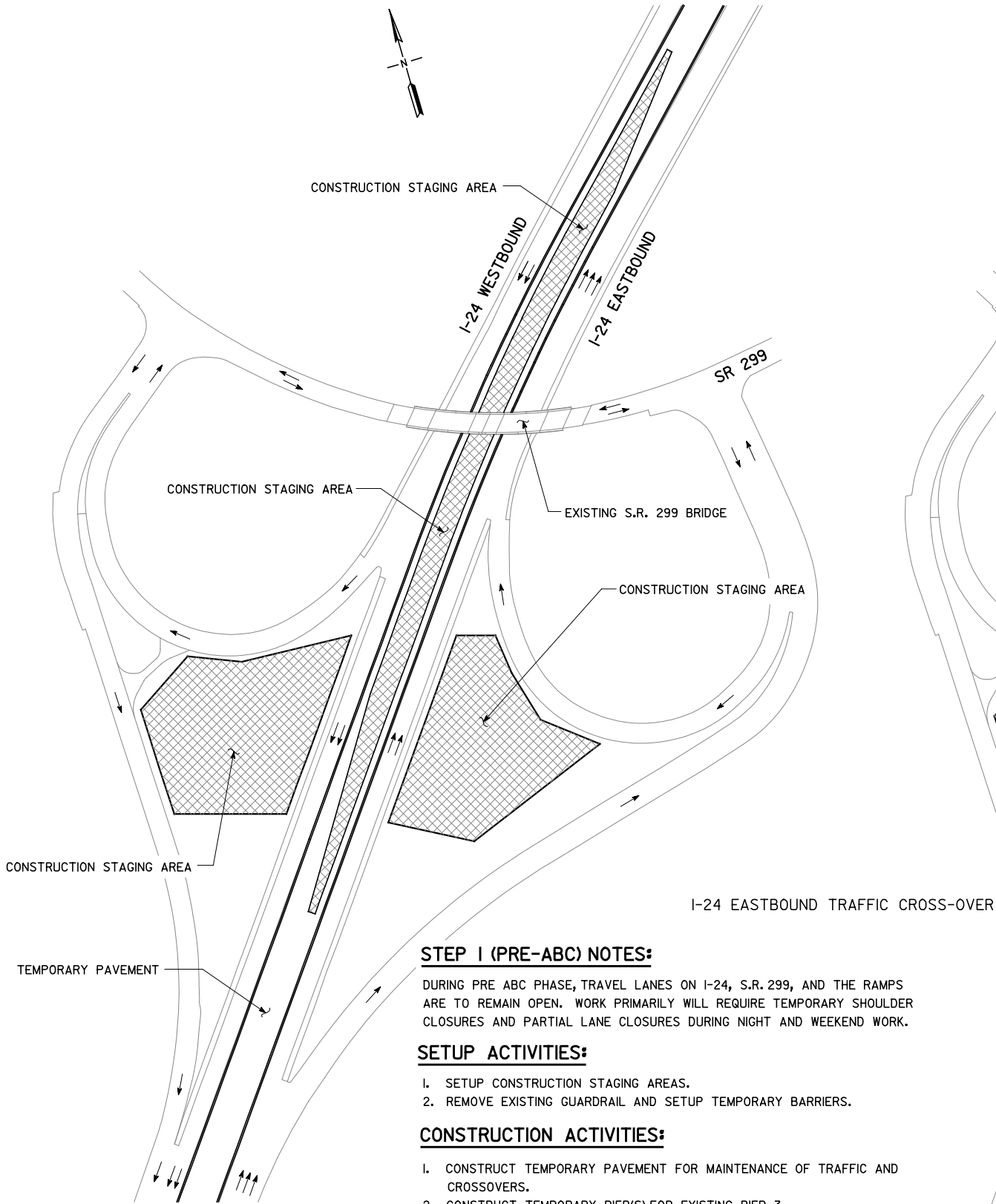
CHECKED

REVIEWED

DRAWN

DESIGN GROUP

APPROVED



STEP 1 (PRE-ABC) NOTES:

DURING PRE ABC PHASE, TRAVEL LANES ON I-24, S.R. 299, AND THE RAMPS ARE TO REMAIN OPEN. WORK PRIMARILY WILL REQUIRE TEMPORARY SHOULDER CLOSURES AND PARTIAL LANE CLOSURES DURING NIGHT AND WEEKEND WORK.

SETUP ACTIVITIES:

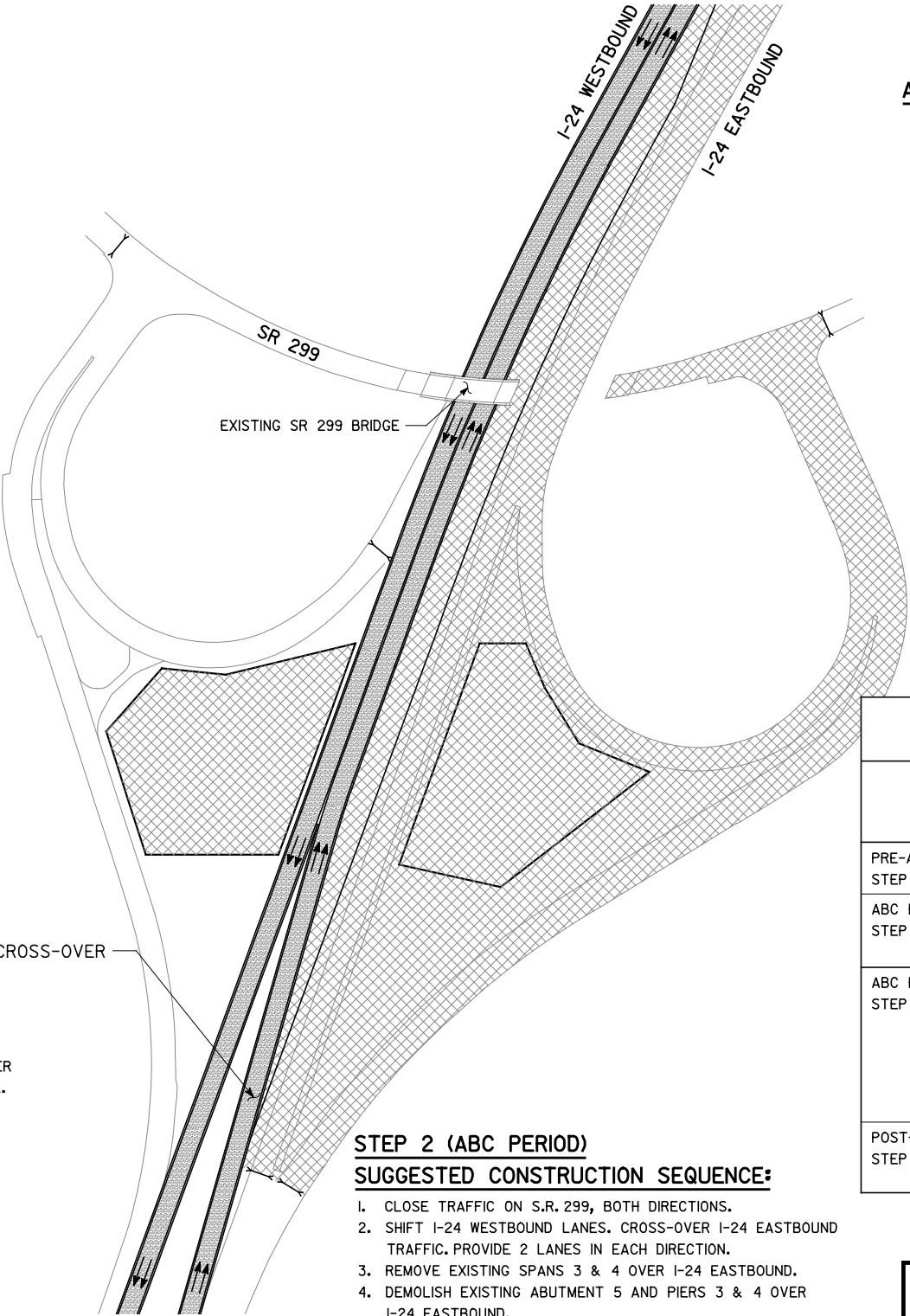
1. SETUP CONSTRUCTION STAGING AREAS.
2. REMOVE EXISTING GUARDRAIL AND SETUP TEMPORARY BARRIERS.

CONSTRUCTION ACTIVITIES:

1. CONSTRUCT TEMPORARY PAVEMENT FOR MAINTENANCE OF TRAFFIC AND CROSSOVERS.
2. CONSTRUCT TEMPORARY PIER(S) FOR EXISTING PIER 3.
3. CONSTRUCT NEW FOUNDATIONS, ABUTMENTS 1 & 3 AND PIER 2.
4. FABRICATE NEW BRIDGE SPANS IN CONSTRUCTION STAGING AREAS.

ACCELERATED BRIDGE CONSTRUCTION (ABC)

STEP 1 (PRE-ABC)



STEP 2 (ABC PERIOD)

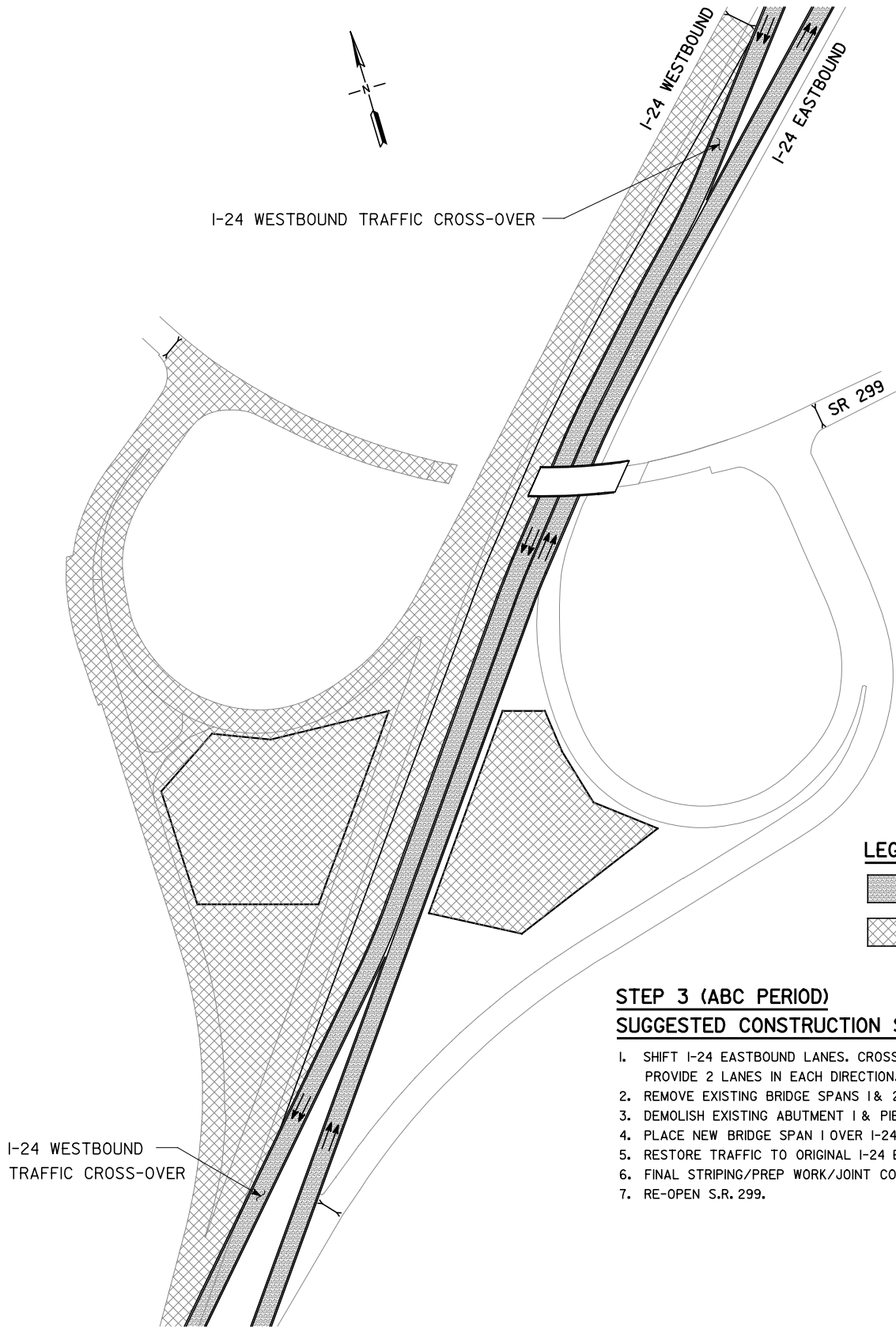
SUGGESTED CONSTRUCTION SEQUENCE:

1. CLOSE TRAFFIC ON S.R. 299, BOTH DIRECTIONS.
2. SHIFT I-24 WESTBOUND LANES. CROSS-OVER I-24 EASTBOUND TRAFFIC. PROVIDE 2 LANES IN EACH DIRECTION.
3. REMOVE EXISTING SPANS 3 & 4 OVER I-24 EASTBOUND.
4. DEMOLISH EXISTING ABUTMENT 5 AND PIERS 3 & 4 OVER I-24 EASTBOUND.
5. PLACE NEW BRIDGE SPAN OVER I-24 EASTBOUND.

ACCELERATED BRIDGE CONSTRUCTION (ABC)

STEP 2 (ABC PERIOD)

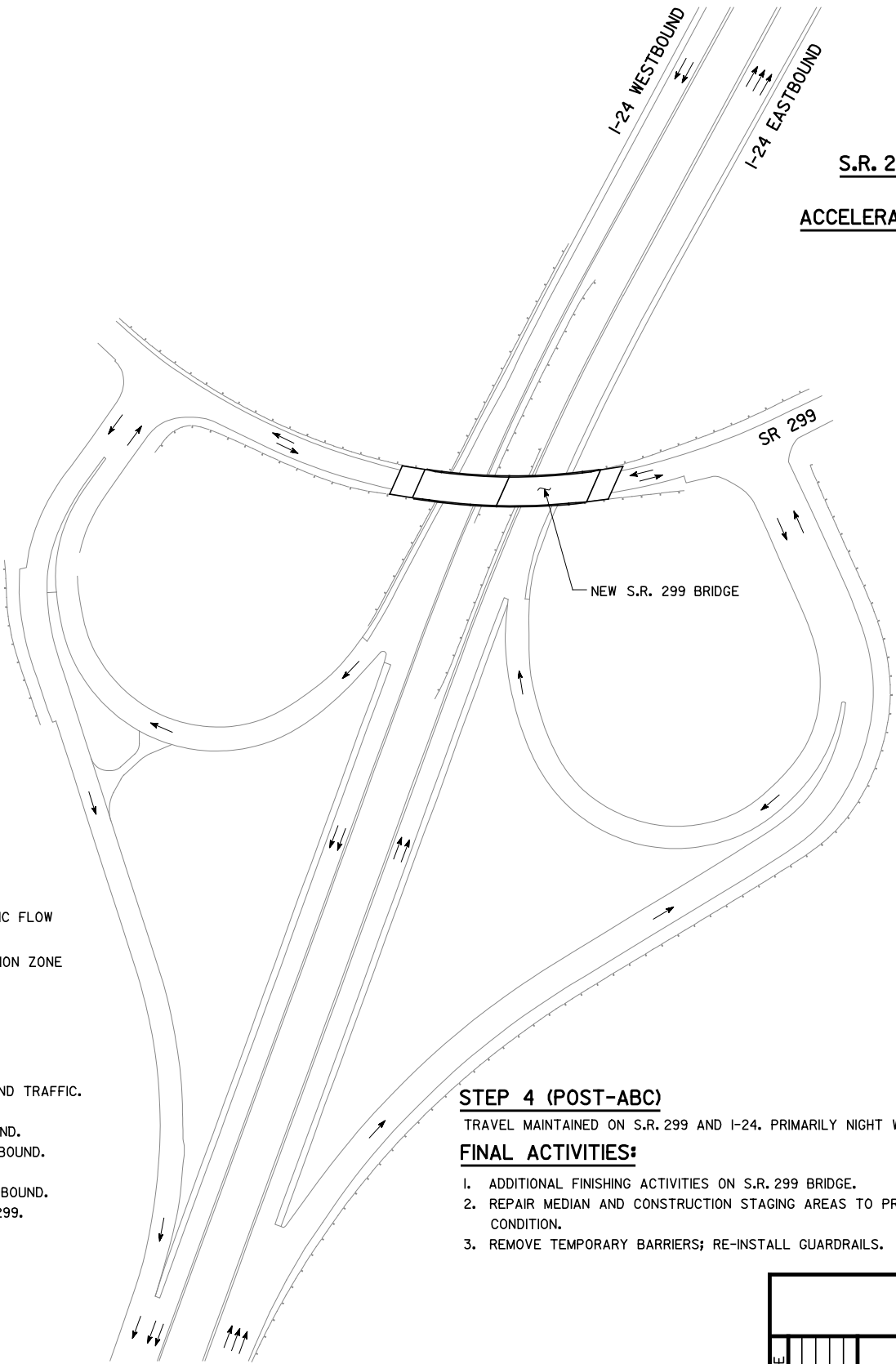
S.R. 299 OVER I-24 REPLACEMENT  
ACCELERATED BRIDGE CONSTRUCTION (ABC)



STEP 3 (ABC PERIOD)  
SUGGESTED CONSTRUCTION SEQUENCE:

1. SHIFT I-24 EASTBOUND LANES. CROSS-OVER I-24 WESTBOUND TRAFFIC. PROVIDE 2 LANES IN EACH DIRECTION.
2. REMOVE EXISTING BRIDGE SPANS 1 & 2 OVER I-24 WESTBOUND.
3. DEMOLISH EXISTING ABUTMENT 1 & PIER 2 OVER I-24 WESTBOUND.
4. PLACE NEW BRIDGE SPAN 1 OVER I-24 WESTBOUND.
5. RESTORE TRAFFIC TO ORIGINAL I-24 EASTBOUND AND WESTBOUND.
6. FINAL STRIPING/PREP WORK/JOINT CONSTRUCTION ON S.R. 299.
7. RE-OPEN S.R. 299.

ACCELERATED BRIDGE CONSTRUCTION (ABC)  
STEP 3 (ABC PERIOD)



- STEP 4 (POST-ABC)  
TRAVEL MAINTAINED ON S.R. 299 AND I-24. PRIMARILY NIGHT WORK.
- FINAL ACTIVITIES:
1. ADDITIONAL FINISHING ACTIVITIES ON S.R. 299 BRIDGE.
  2. REPAIR MEDIAN AND CONSTRUCTION STAGING AREAS TO PREVIOUS CONDITION.
  3. REMOVE TEMPORARY BARRIERS; RE-INSTALL GUARDRAILS.

ACCELERATED BRIDGE CONSTRUCTION (ABC)  
STEP 4 (POST-ABC)

<b>HNTB</b>		3715 NORTHSIDE PARKWAY 200 NORTHCREEK, SUITE 800 ATLANTA, GEORGIA 30327	
GEORGIA		<b>DEPARTMENT OF TRANSPORTATION</b> PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN	
DATE		PROPOSED CONSTRUCTION SEQUENCE 2 OF 2 SR 299 OVER I-24	
REVISIONS		DADE COUNTY	
DRAWING NO.		SCALE: SEPTEMBER 2013	
BRIDGE SHEET		DESIGNED: _____ DRAWN: _____	
		CHECKED: _____ DESIGN GROUP: _____	
		REVIEWED: _____ APPROVED: _____	

# **Attachment B**

## **Construction Cost Estimate**

JOB ESTIMATE REPORT

JOB NUMBER : 0011682                      SPEC YEAR: 01  
DESCRIPTION: DADE COUNTY BRIDGE REPLACEMENT SR299 OVER I-24

ITEMS FOR JOB 0011682

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0080	543-9000		LS	CONSTR OF BRIDGE COMPLETE - 242X43X40	1.000	2698678.42	2698678.42
0085	540-1102		LS	REM OF EX BR, BR NO - 242X34X28	1.000	534912.19	534912.19
0089	210-0100		LS	GRADING COMPLETE - 0011682	1.000	100000.00	100000.00
0090	150-1000		LS	TRAFFIC CONTROL - BR STR ID 083-0020-0	1.000	186818.59	186818.59
0095	620-0100		LF	TEMP BARRIER, METHOD NO. 1	15840.000	23.35	369864.00
0100	402-4310		SY	4" RECYL AC 25MM SP,GPI/2,BMHL	14720.000	26.10	384192.00
0105	310-5100		SY	GR AGGR BS CRS 10IN INCL MATL	14720.000	18.53	272761.60
0110	641-1100		LF	GUARDRAIL, TP T	100.000	53.60	5360.95
0115	641-1200		LF	GUARDRAIL, TP W	1000.000	16.66	16661.14
0120	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	2.000	713.16	1426.32
0125	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	2.000	1868.35	3736.70
0128	163-0232		AC	TEMPORARY GRASSING	16.000	194.38	3110.20
0129	163-0240		TN	MULCH	200.000	267.72	53545.53
0133	163-0300		EA	CONSTRUCTION EXIT	4.000	1376.56	5506.28
0134	165-0030		LF	MAINT OF TEMP SILT FENCE, TP C	5000.000	0.73	3695.10
0139	171-0030		LF	TEMPORARY SILT FENCE, TYPE C	10000.000	2.32	23244.40
0144	700-6910		AC	PERMANENT GRASSING	8.000	577.22	4617.77

ITEM TOTAL  
INFLATED ITEM TOTAL

4668131.18  
4668131.19

TOTALS FOR JOB 0011682

ESTIMATED COST:  
CONTINGENCY PERCENT ( 0.0 ) :  
ESTIMATED TOTAL:

4668131.19  
0.00  
4668131.19

PROJ. NO.	SR 299 bridge replacement over I-24
P.I. NO.	11682
DATE	1/3/2014

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Jan-14	\$ 3.240
DIESEL		\$ 3.823
LIQUID AC		\$ 557.00

Link to Fuel and AC Index:

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

### LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)-0.05]xTMTxAPL

#### Asphalt

Price Adjustment (PA)				\$	108,227.33	\$	108,227.33
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	125%		\$	1,253.25		
Monthly Asphalt Cement Price month project let (APL)				\$	557.00		
Total Monthly Tonnage of asphalt cement (TMT)					161.92		

ASPHALT	Tons	%AC	AC ton
Leveling	0	5.0%	0
12.5 SMA	0	5.0%	0
12.5 PEM	0	5.0%	0
12.5 mm SP	0	5.0%	0
25 mm SP	3238.4	5.0%	161.92
19 mm SP	0	5.0%	0
	<b>3238.4</b>		<b>161.92</b>

#### BITUMINOUS TACK COAT

Price Adjustment (PA)				\$	-	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	125%		\$	1,253.25		
Monthly Asphalt Cement Price month project let (APL)				\$	557.00		
Total Monthly Tonnage of asphalt cement (TMT)					0		

#### Bitum Tack

Gals	gals/ton	tons
0	232.8234	0

#### BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				\$	-	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	125%		\$	1,253.25		
Monthly Asphalt Cement Price month project let (APL)				\$	557.00		
Total Monthly Tonnage of asphalt cement (TMT)					0		

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf.Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0
					0

<b>TOTAL LIQUID AC ADJUSTMENT</b>	<b>\$</b>	<b>108,227.33</b>
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# **Attachment C**

## **Utility Cost Estimate**

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0011682 OFFICE Cartersville  
Bridge Replacement I-24 @ SR 299  
Dade County DATE November 26, 2013

FROM  Kerry D. Bonner  
District Utilities Engineer

TO Darryl D. VanMeter, P.E., Office of Innovative Program Delivery  
ATTN Andrew Hoenig, P.E., Project Manager

SUBJECT CONCEPT UTILITY COST ESTIMATE

As requested by your office, we are furnishing you with a Concept Utility Cost estimate for each utility with facilities potentially located within the project limits. It appears that AT&T – Southeast is the only owner with conflict.

FACILITY OWNER	NON-	
	REIMBURSABLE	REIMBURSABLE
AT&T - Southeast		\$ 75,000.00
Totals		\$ 75,000.00

Total Updated Preliminary Utility Cost Estimate \$ 75,000.00

If you have any questions, please contact Jennifer Deems at 678-721-5323.

KDB/jd

C: Mike Bolden, State Utilities Engineer (via e-mail)  
File/Estimating Book

# **Attachment D**

## **Traffic Diagrams**



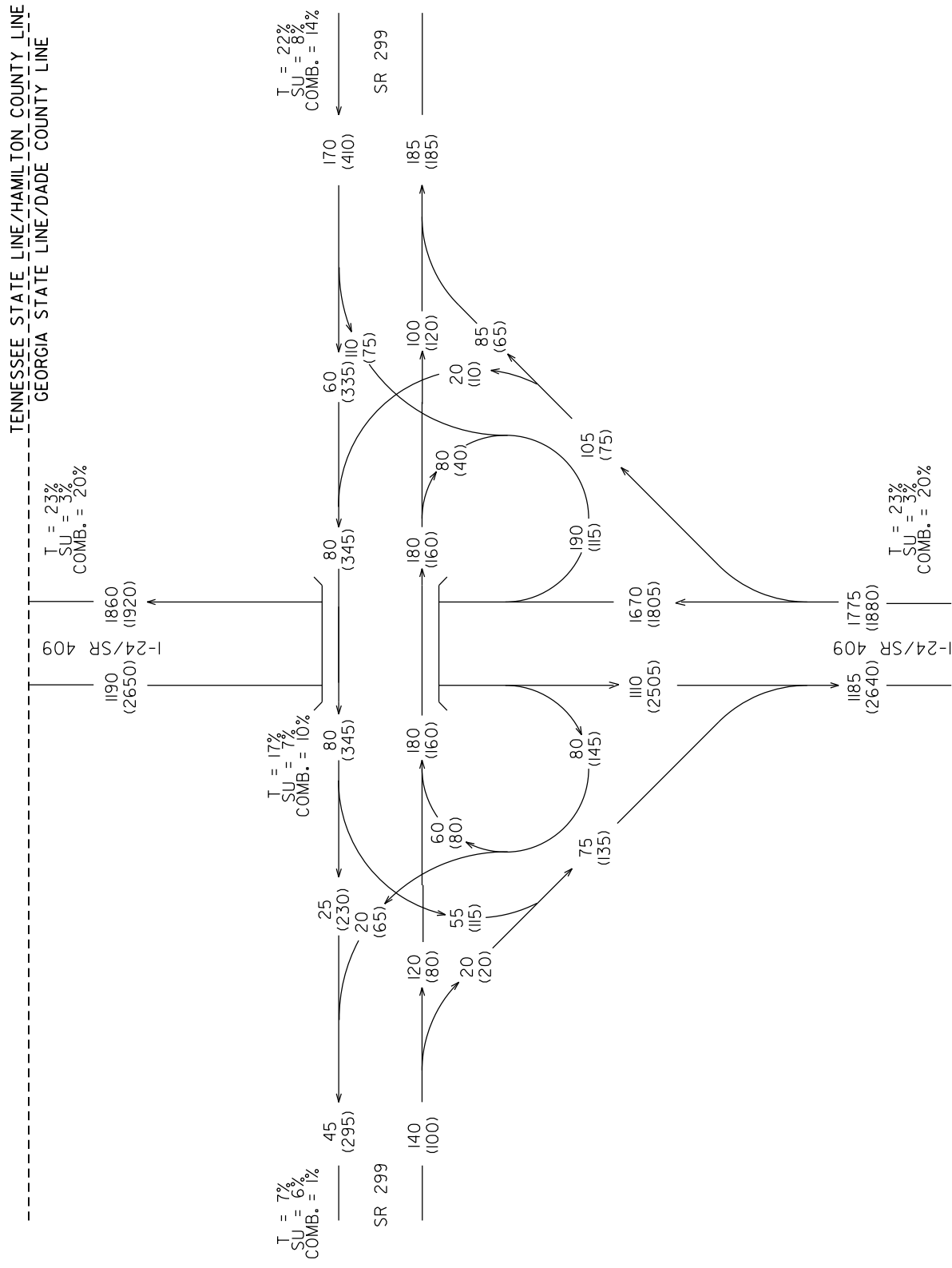
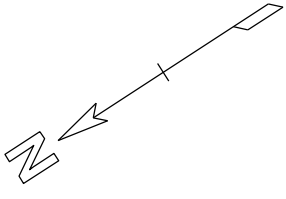
GEORGIA DEPARTMENT OF TRANSPORTATION  
OFFICE OF PLANNING

# BTNT

3715 NORTHSIDE PARKWAY, NW  
200 NORTHCREEK, SUITE 800  
ATLANTA, GEORGIA 30327

2013 EXISTING PEAK HOUR VOLUME

DADE COUNTY



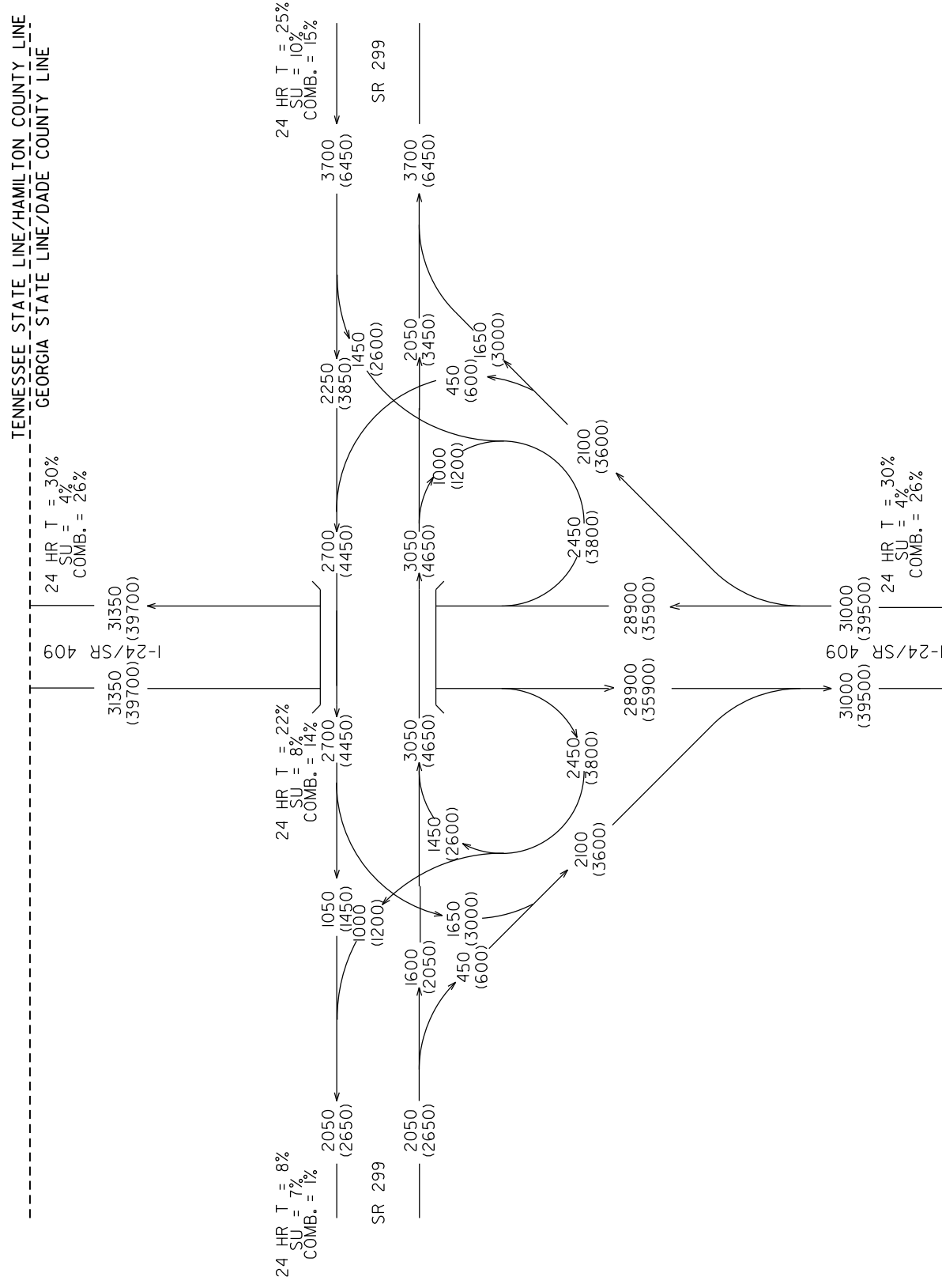
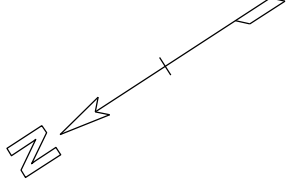
GEORGIA DEPARTMENT OF TRANSPORTATION  
OFFICE OF PLANNING

# BTNZ

3715 NORTHSIDE PARKWAY, NW  
200 NORTHCREEK, SUITE 800  
ATLANTA, GEORGIA 30327

2015/2035 NO-BUILD/BUILD ADT

DADE COUNTY



STP00-0012-01(081)  
PI# 0011682  
DADE COUNTY

SR 299  
BRIDGE REPLACEMENT  
OVER I-24/SR 409

2015 ADT = 0000  
2035 ADT = (0000)

KAM 08/13



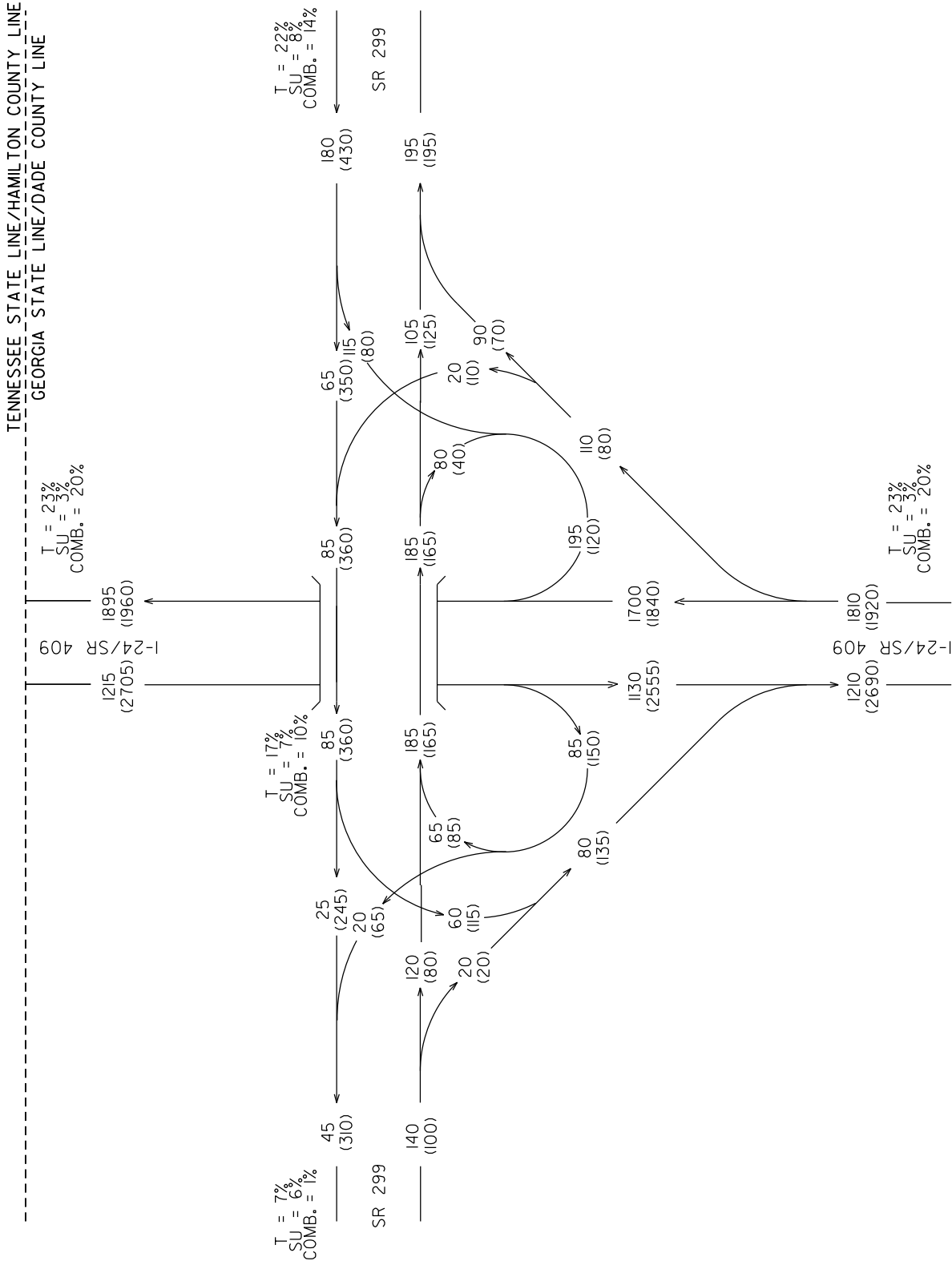
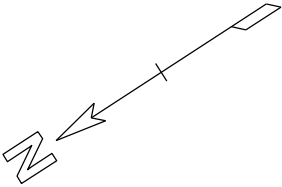
GEORGIA DEPARTMENT OF TRANSPORTATION  
OFFICE OF PLANNING



3715 NORTHSIDE PARKWAY, NW  
200 NORTHCREEK, SUITE 800  
ATLANTA, GEORGIA 30327

2015 NO-BUILD/BUILD DHV

DADE COUNTY



STP00-0012-01(081)  
PI# 0011682  
DADE COUNTY

SR 299  
BRIDGE REPLACEMENT  
OVER I-24/SR 409

2015 AM DHV = 000  
2015 PM DHV = (000)

KAM 08/13

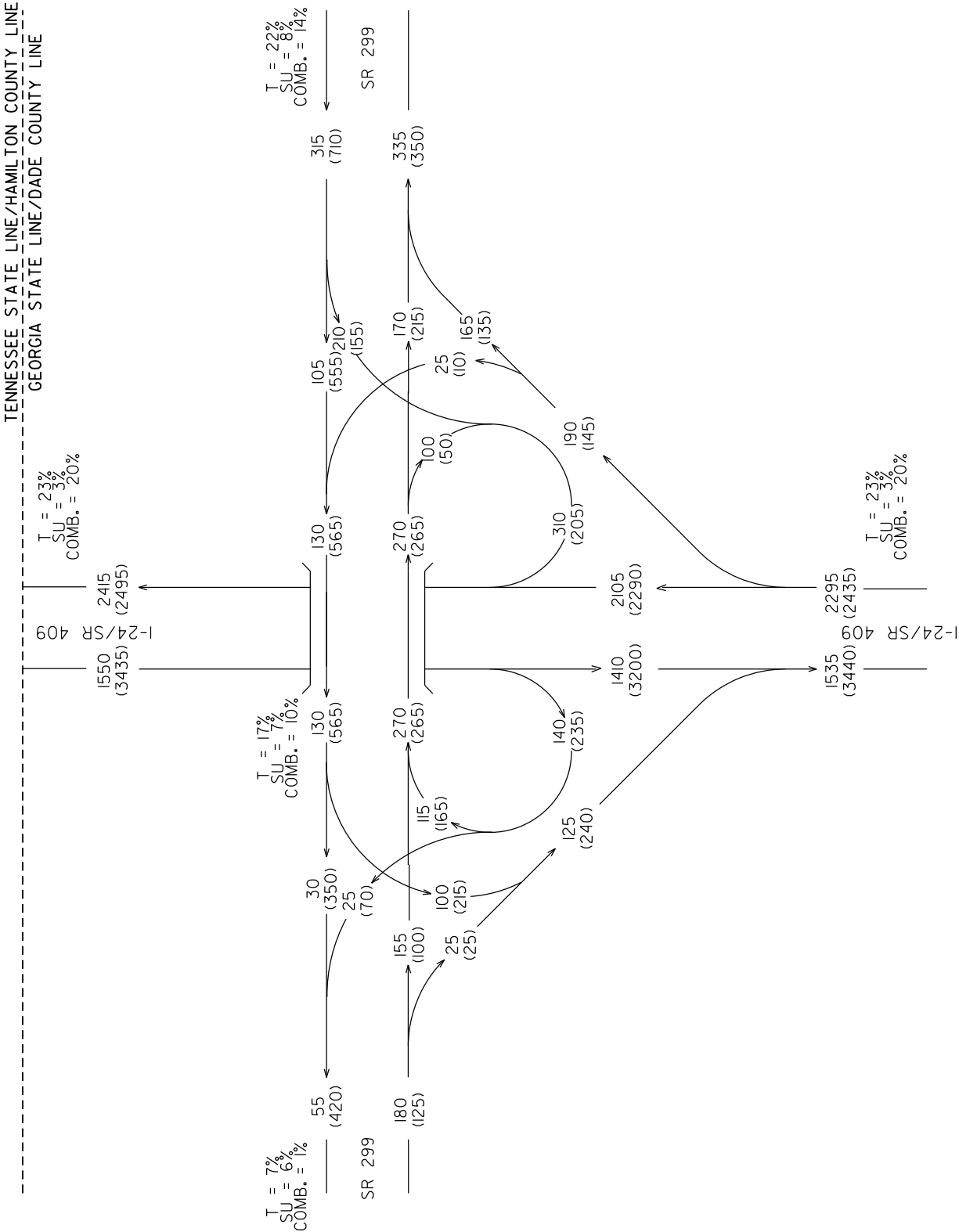
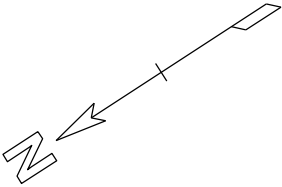
GEORGIA DEPARTMENT OF TRANSPORTATION  
OFFICE OF PLANNING

**HNTB**

3715 NORTHSIDE PARKWAY, NW  
200 NORTHCREEK, SUITE 800  
ATLANTA, GEORGIA 30327

2035 NO-BUILD/BUILD DHV

DADE COUNTY



STP00-0012-01(081)  
PI# 001682  
DADE COUNTY

SR 299  
BRIDGE REPLACEMENT  
OVER I-24/SR 409

2035 AM DHV = 000  
2035 PM DHV = (000)

# **Attachment E**

## **Bridge Sufficiency Report**

Processed Date:1/7/2013

# Bridge Inventory Data Listing



Parameters: Bridge Serial Num

Structure ID:083-0020-0		Dade		SUFF. RATING: 31.17	
Location & Geography				Signs & Attachments	
Structure ID:	083-0020-0	*104 Highway System:	0		
200 Bridge Information:	06	*26 Functional Classification:	01	225 Expansion Joint Type:	01
*6A Feature Int:	I-24 (SR 409)	*204 Federal Route Type:	S No: 00811	242 Deck Drains:	0
*6B Critical Bridge:	0	105 Federal Lands Highway:	0	243 Parapet Location:	0
*7A Route No Carried:	SR00299	*110 Truck Route:	0	Height:	0
*7B Facility Carried:	SR 299	2006 School Bus Route:	1	Width:	0
9 Location:	6 MI NE OF NEW ENGLAND	217 Benchmark Elevation:	0000.00	238 Curb Height:	1
2 Dot District:	6	218 Datum:	0	Curb Material:	1
		*19 Bypass Length:	00	239 Handrail	7 7
207 Year Photo:	2011	*20 Toll:	3	*240 Medium Barrier Rail:	0
*91 Inspection Frequency:	24 Date: 08/15/2011	*21 Maintanance:	01	241 Bridge Median Height:	0
92A Fract Crit Insp Freq:	0 Date: 02/01/1901	*22 Owner:	01	* Bridge Median Width:	0
92B Underwater Insp Freq:	0 Date: 02/01/1901	*31 Design Load:	5	230 Guardrail Loc. Dir. Rear:	3
92C Other Spc. Insp Freq:	0 Date: 02/01/1901	37 Historical Significance:	5	Fwr:	3
* 4 Place Code:	00000	205 Congressional District:	09	Oppo. Dir. Rear:	0
*5 Inventory Route(O/U):	1	27 Year Constructed:	1965	Oppo. Fwr:	0
Type:	3	106 Year Reconstructed:	0000	244 Aproach Slab	3
Designation:	1	33 Bridge Medium:	0	224 Retaining Wall:	0
Number:	00299	34 Skew:	31	233Posted Speed Limit:	65
Direction:	0	35 Structure Flared:	0	236 Warning Sign:	0.00
*16 Latitude:	34 - 58.6490 HMMS Prefix:SR	38 Navigation Control:	N	234 Delineator:	1.00
*17 Longitude:	85 -25.0223 HMMS Suffix:00 MP:2.62	213 Special Steel Design:	0	235 Hazzard Boards:	0
98 Border Bridge:	000%Shared:00	267 Type of Paint:	5	237 Utilities Gas:	00
99 ID Number:	0000000000000000	*42 Type of Service On:	1	Water:	00
*100 STRAHNET:	0	Type of Service Under:	1	Electric:	00
12 Base Highway Network:	1	214 Movable Bridge:	0	Telephone:	21
13A LRS Inventory Route:	831040900	203 Type Bridge:	A	Sewer:	00
13B Sub Inventory Route:	0	259 Pile Encasement	3	247 Lighting Street:	0
101 parallel Structure:	N	*43 Structure Type Main:	4 02	Navigation:	0
*102 Direction of Traffic:	2	45 No.Spans Main:	004	Aerial:	0
*264 Road Inventory Mile Post:	002.62	44 Structure Type Appr:	0 00	*248 County Continuity No.:	00
*208 Inspection Area:	6 Initials: EFP	46 No Spans Appr:	0000		
Engineer's Initials:	gmc	226 Bridge Curve Horz	1 Vert: 1		
* Location ID No:	083-00299D-002.62E	111 pier Protection	0		
		107 Deck Structure Type:	1		
		108 Wearing Structure Type:	1		
		Membrane Type:	0		
		Deck Protection:	8		

Processed Date:1/7/2013

# Bridge Inventory Data Listing



Parameters: Bridge Serial Num

Structure ID:083-0020-0

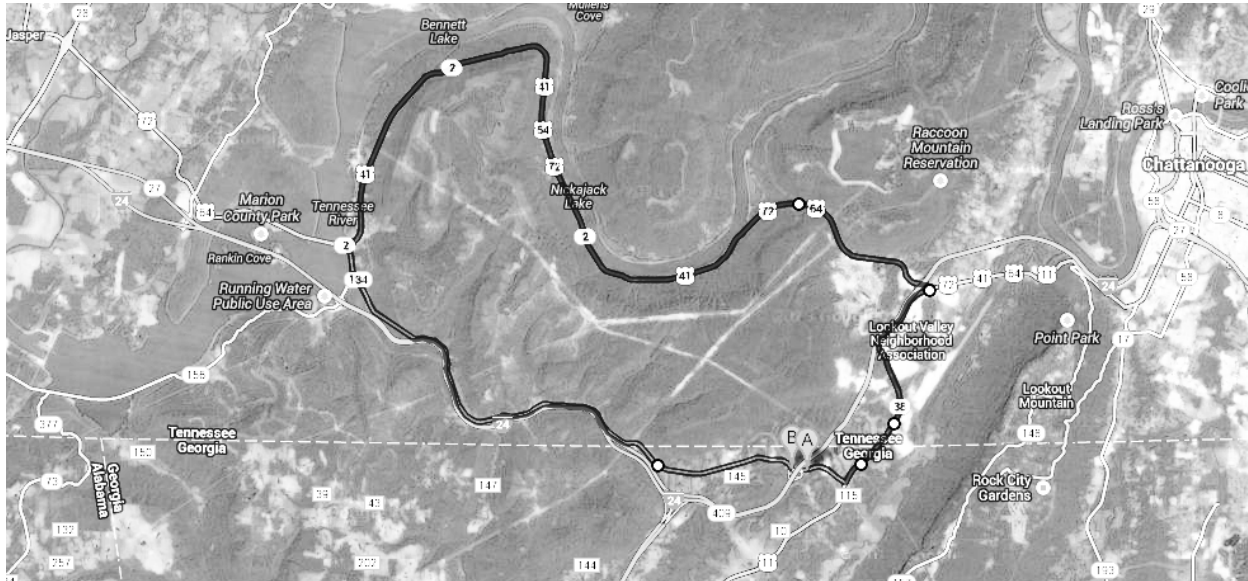
Programming Data		Measurements:				
201 Project No:	I-24-1 (3) 00 CT.2	*29ADT	062300	Year:2010	65 Inventory Rating Method:	1
202 Plans Available:	4	109%Trucks:	23		63 Operating Rating Method:	1
249 Prop Proj No:	NH-24-1(17)	* 28 Lanes On:	02	Under:06	66 Inventory Type:	2 Rating: 10
250 Approval Status:	0000	210 No. Tracks On:	00	Under:00	64 Operating Type:	2 Rating: 10
251 PI Number:	611020-	* 48 Max. Span Length	0090		231Calculated Loads:	
252 Contract Date:	02/01/1901	* 49 Structure Length:	242		H-Modified:	10 0
260 Seismic No:	00000	51 Br. Rwdy. Width	28.00		HS-Modified:	00 0
75 Type Work:	00 0	52 Deck Width:	34.30		Type 3:	00 0
94 Bridge Imp. Cost:	\$0	* 47 Tot. Horiz. Cl:	28		Type 3s2:	00 0
95 Roadway Imp. Cost:	0	50 Curb / Sidewalk Width	2.10 / 2.10		Timber:	00 0
96 Total Imp Cost:	0	32 Approach Rdwy. Width	027		Piggyback:	00 0
76 Imp Length:	000000	*229 Shoulder Width:			261 H Inventory Rating:	10
97 Imp Year:	0000	Rear Lt:	1.50	Type:2 Rt:1.50	262 H Operating Rating	32
114Furure ADT:	093450 Year:2030	Fwd. Lt:	2.00	Type:2 Rt:2.00	67 Structural Evaluation:	2
Hydraulic Data		Permanent Width:			58 Deck Condition:	5
215Waterway Data:		Rear:	24.00	Type:2	59 Superstructure Condition:	6
High Water Elev:	0000.0 Year:1900		24.00	Type:2	* 227 Collision Damage:	2
Flood Elev:	0000.0 Freq:00	Intersection Rear:	1	Fwd: 1	60A Substructure Condition:	5
Avg Streambed Elev:	0000.0	36Safety Features Br. Rail:	2		60B Scour Condition:	N
Drainage Area:	00000	Transition:	2		60C Underwater Condition	N
Area of Opening:	000000	App. G. Rail:	1		71 Waterway Adequacy:	N
113 Scour Critical	N	App. Rail End:	1		61 Channel Protection Cond.:	N
216Water Depth:	00.0 Br.Height:00.0	53 Minimum Cl. Over:	99' 99 "		68 Deck Geometry:	4
222Slope Protection:	4	Under:			69 UnderClr. Horz/Vert:	6
221Slope Protection	0 Fwd:0	*228 Minimum Vertical Cl			72 Appr. Alignment:	8
219Fender System	0	Act. Odm Dir.:	99' 99"		62 Culvert:	N
220Dolphin:	0	Oppo. Dir:	99' 99"		Posting Data	
223Current Cover:	000	Posted Odm. Dir:	00' 00"		70 Bridge Posting Required	5
Type:	0	Oppo. Dir:	00' 00"		41 Struct Open, Posted, CL:	A
No. Barrels:	0	55 Lateral Undercl. Rt:	H 20 20		* 103 Temporary Structure:	0
* Width:	0.00 Height:0.00	56 Lateral Undercl. Lt:	29.20		232 Posted Loads	
* Length:	0 Apron:0	*10 Max Min Vert Cl:	99' 99" Dir:0		H-Modified:	00
265 U/W Insp. Area	0 Diver:ZZZ	39 Nav Vert Cl:	000 Horiz:0000		HS-Modified:	00
Location ID No:	083-00299D-002.62E	116 Nav Vert Cl Closed:	000		Type 3:	00
		245 Deck Thickness Main	6.80		Type 3s2:	00
		Deck Thick Approach:	0.00		Timber:	00
		246 Overlay Thickness:	0.00		Piggyback	00
		212 Year Last Painted:	Sup:1996Sub:0000		253 Notification Date:	02/01/1901
					258 Fed Notify Date:	2/1/1901 12:00:00AM

# **Attachment F**

## **Detour Plan**



**Detour Route only using State Routes to avoid Interstates  
(Final detour plan to be developed by the design build team.)**



GA-299 E



1. Head **east** on **GA-299 E** toward **Cooley Rd**  
About 1 min

go 0.7 mi  
total 0.7 mi



2. Turn left onto **GA-58 E/US-11 N/Birmingham Pike**  
Continue to follow US-11 N  
About 7 mins

go 3.7 mi  
total 4.4 mi



3. Turn left onto **Hwy 64 W/TN-2 W/U.S. 41 N/US-64 W/US-72 W/Lee Hwy**  
About 20 mins

go 14.5 mi  
total 18.9 mi



4. Turn left onto **TN-134 E/J E Clouse Hwy**

go 0.5 mi  
total 19.4 mi



5. Turn left to stay on **TN-134 E/J E Clouse Hwy**  
Continue to follow TN-134 E  
About 9 mins

go 6.0 mi  
total 25.4 mi



6. Continue onto **GA-299 E**  
About 3 mins  
Total 40 mins

go 2.6 mi  
total 28.0 mi



GA-299 W

**Detour Route only using Interstates and State Routes  
(Final detour plan to be developed by the design build team.)**



GA-299 W



1. Head **east** on **GA-299 E** go 0.8 mi  
About 1 min total 0.8 mi



2. Turn right onto **GA-58 W/US-11 S/Birmingham Pike** go 9.8 mi  
Continue to follow GA-58 W/US-11 S total 10.6 mi  
About 12 mins



3. Turn right onto **White Oak Gap Rd** go 0.2 mi  
total 10.8 mi



4. Turn right to merge onto **I-59 N** go 7.9 mi  
About 7 mins total 18.7 mi



5. Keep left at the fork, follow signs for **I-24 W/Nashville** and go 7.0 mi  
merge onto **I-24 W** total 25.7 mi  
About 6 mins



6. Take exit **161** for **TN-156** toward **Haletown/New Hope** go 0.3 mi  
total 25.9 mi



7. Turn right onto **TN-156 E/Shellmound Rd** go 0.3 mi  
About 51 secs total 26.3 mi



8. Take the 1st right onto **TN-134 E/J E Clouse Hwy** Continue to go 6.0 mi  
follow TN-134 total 32.2 mi  
About 8 mins



9. Continue onto **GA-299 E** go 2.6 mi  
About 3 mins total 34.8 mi  
Total 38 mins



GA-299 W

**Attachment G**

**Initial Concept Meeting Minutes**

## MEETING NOTES



**Date:** April 17, 2013

**Project:** I-24 at SR 299 bridge replacement – PI Number 0011682; Dade

**Purpose:** Kick-off Meeting

**Location:** GDOT General Office

**Time:** 1:30 PM

**Attending:**

Victor Dang	FHWA	<a href="mailto:victor.dang@dot.gov">victor.dang@dot.gov</a>	404-562-3654
Keisha Jackson	GDOT – OES	<a href="mailto:kejackson@dot.ga.gov">kejackson@dot.ga.gov</a>	404-631-1160
Steve Gaston	GDOT - Bridge	<a href="mailto:sgaston@dot.ga.gov">sgaston@dot.ga.gov</a>	404-631-1881
Eric Huibregtse	GDOT - Bridge	<a href="mailto:ehuibregtse@dot.ga.gov">ehuibregtse@dot.ga.gov</a>	404-631-1875
Ben Rabun	GDOT - Bridge	<a href="mailto:brabun@dot.ga.gov">brabun@dot.ga.gov</a>	404-631-1008
Andrew Hoenig	GDOT – IPD	<a href="mailto:ahoenig@dot.ga.gov">ahoenig@dot.ga.gov</a>	404-631-1757
John Hancock	GDOT – IPD	<a href="mailto:jhancock@dot.ga.gov">jhancock@dot.ga.gov</a>	404-631-1315
Heidi Schneider	HNTB	<a href="mailto:hlschneider@hntb.com">hlschneider@hntb.com</a>	404-946-5707
Jim Aitken	HNTB	<a href="mailto:jaitken@hntb.com">jaitken@hntb.com</a>	404-946-5775
David Hannon	HNTB	<a href="mailto:dhannon@hntb.com">dhannon@hntb.com</a>	404-275-2829

### The following items were discussed:

1. Andrew Hoenig opened the meeting and led introductions. This meeting is to kickoff the I-24 at SR 299 bridge replacement project. This project will be completed using Accelerated Bridge Construction (ABC) techniques. The project will be delivered using Design-Build (DB) to allow the DB team to determine exactly how to complete the accelerated construction.
2. Project Scope:
  - a. The scope of the project is to replace the existing SR 299 bridge over I-24 on existing alignment.
  - b. Replace the bridge with minimal impact to the traveling public by only closing the bridge for up to three days during construction.
  - c. The new bridge will consist of two 12-foot wide lanes with 8 to 10-foot outside shoulders.
  - d. HNTB will develop the NEPA document, examine and recommend ABC techniques, and develop DB specifications and example bridge layouts.
3. Project Schedule:
  - a. Concept Team Meeting Fall 2013
  - b. NEPA approval Spring 2014
  - c. DB letting FY 2015
  - d. Construction Complete 2016
  - e. The group discussed these dates and the ability to move the project into FY 2014 if the NEPA document is approved early. The consensus was that funding would likely be available if the NEPA document was approved early to move the project into FY 2014 and let it prior to July 2014.
4. Environmental
  - a. The NEPA document is anticipated to be a Categorical Exclusion (CE).

- b. The Need and Purpose will be for a standard bridge replacement but also include language regarding the desire to replace the bridge quickly with minimal impact to the traveling public.
  - c. The group discussed the required survey area required for special studies. HNTB previously anticipated that based on the existing topography that they special studies would be confined to within the interchange and just north of the existing bridge. The group determined that the design-build team may need to construct crossovers to shift traffic during construction. To construct the crossovers, the median should be surveyed approximately 2000 feet, north and south of the bridge.
  - d. The Ecology survey was done on 4/16/2013. There may be suitable roosting and foraging habitat for the Indiana Bat (I-Bat). Suitable roosting habitat for the Gray bat was not identified; however, foraging habitat has not been ruled out. Acoustic and mist netting surveys for the I-bat may need to be done to determine if they are present in the area and impacted by the project. If these bat surveys are done, the Gray bat will also be surveyed. Keisha indicated that the bat surveys may need to include the Long Ear bat. HNTB to follow up with OES to determine if the surveys will need to include this species.
    - 1. Note: After the meeting HNTB followed up with Doug Chamblin who indicated that the Long Ear bat will not need to be tagged and tracked when the bat surveys are done, but will need to be documented if one is captured.
    - 2. HNTB to coordinate with US Fish and Wildlife Services (USFWS) to determine if the bat surveys are needed.
  - e. Additional field work for ecology, history, and archaeology may be required to accommodate the extended limits for the I-24 crossover.
  - f. Archaeology survey will be done in the next few weeks.
  - g. The History survey will be done in the next few weeks.
  - h. Air and Noise special studies are anticipated to be write-off memos.
  - i. Public Outreach is anticipated for the detour route. This public meeting may need to be expanded to educate the public on the scope of the project and why there's a benefit to replacing the bridge using ABC techniques.
  - j. Public outreach may need to be targeted to the trucking industry due to the high volume of trucks in the corridor.
  - k. Additional coordination may be needed with Chattanooga, TennDOT and AIDOT. Ben has had early discussions with TennDOT and AIDOT.
5. Submittals:
- a. Concept Report
    - Will be developed by HNTB.
  - b. Field and Right of Way (ROW) surveys are being done by Cardno-TBE and are ongoing. These are expected to be complete by the end of June.
  - c. The Traffic Report is being developed by HNTB. Traffic counts will need to be done before school lets out to supplement the report and to provide accurate information on the best days/times for lane closures and bridge closures.
  - d. An Interchange Modification Report is not anticipated to be needed.
  - e. Preliminary layouts will be parametric with just enough data shown for the designer/contractor to understand project limits, work zone, etc.
6. No additional ROW is anticipated to be required for the construction of the project. This will be confirmed once the existing ROW surveys are complete.



## 7. Utilities:

- a. There are existing telecommunications attached to the bridge.
- b. Subsurface Utility Engineering will need to be done in the area to identify all utilities in the area that may be impacted by the project.
- c. Due to the quick construction timeframe for the project, it may be beneficial to coordinate early relocation of the utilities to move them off the bridge in advance of the DB contract.

## 8. DB specifications and ABC alternatives

- a. The project may be one of the first to utilize the new Best Value legislation. As the project develops goals for a best value scoring system will need to be further discussed. Some early ideas for best value are:
  - Lifecycle costs
  - Maximizing bridge clearances
  - Minimizing construction and bridge closure times
  - Maintenance of Traffic (MOT) plan
- b. There are two ABC methods that the Bridge Office was originally considering:
  - Using self-propelled-modular-transports (SPMT)
  - Lateral sliding of the bridge into place, which is the method being pushed by FHWA's Every Day Counts II initiative.
- c. The State Highway Research Program (SHRP) 2 has developed an ABC Toolkit that identifies other methods of ABC bridge construction. These methods will need to be vetted further to determine if they will be allowed on this project.
  - Bridge Office is concerned that if the toolkit is used that the contractors will select an ABC method that is not desired (steel beams and precast deck)
  - HNTB to analyze and evaluate the additional ABC methods in the SHRP 2 Toolkit and recommend those that would accomplish the goals of the project for further discussion with GDOT and FHWA.
  - HNTB will discuss SHRP2 ABC toolkit with Bala Sivakumar (HNTB and tool kit author) discuss all methods and cost index of alternatives.
  - Ben Beerman with FHWA's Resource Center should be considered as an additional resource for evaluating acceptable methods.
- d. Bridge design criteria
  - The bridge will be designed using LRFD.
  - New sub and super structures
  - Existing footings may be allowed to be retained if the DB team could prove they are acceptable. This may factor into the lifecycle value of the best value scoring.
  - Steel and/or concrete beams would be acceptable
  - GDOT is open to alternative bridge designs such as the Florida Bulb Tee or tub girders but DB teams would need to propose that on an individual basis.
  - Options for what is feasible at this location need to be developed. A limited bridge type study will determine what alternatives for the bridges are available, including number of spans, beam type and substructure options in the context of ABC techniques that will be considered for this project. HNTB will develop the study.

### 9. Industry outreach

- a. DB teams need to be familiar with ABC techniques that will be available on this project. The group discussed informing DB teams of showcases of ABC construction activities throughout the country.
  - After the meeting, it was identified that there is a showcase for the slide in technique in New York this fall.
- b. IPD had anticipated that GDOT/HNTB would hold an education session for interested DB teams in advance of advertising the project. This may need to be timed to allow for DB teams to visit similar construction projects throughout the country prior to the project's advertisement.

### Action Items:

1. **HNTB to follow up with OES to determine if the bat surveys will need to include the Long Ear bat. [COMPLETE]**
2. **HNTB to coordinate with US Fish and Wildlife Services (USFWS) to determine if the bat surveys are needed.**
3. **HNTB to analyze and evaluate the additional ABC methods in the SHRP 2 Toolkit and recommend those that would accomplish the goals of the project for further discussion with GDOT and FHWA.**
4. **HNTB will develop bridge type study to determine span arrangements, beam types and substructure option for this project to see what is feasible.**

This represents our understanding of items discussed and decisions reached. Please contact Andrew Hoenig (404-631-1757 or [ahoenig@dot.ga.gov](mailto:ahoenig@dot.ga.gov)) if there are changes or additions no later than seven days after receipt.

cc: Attendees, Darryl VanMeter (GDOT), Tim Heilmeier (HNTB), Rob Lewis (HNTB), Keith Strickland (HNTB), Dom Saulino (HNTB)

# **Attachment H**

## **Concept Meeting Minutes**



## MEETING NOTES



**Date:** October 9, 2013

**Project:** I-24 at SR 299 Accelerated Bridge Construction – PI Number 0011682; Dade County

**Purpose:** Concept Team Meeting

**Location:** GDOT District 6 Conference Room

**Time:** 10:00 AM

**Attending:**

Victor Dang	FHWA	<a href="mailto:Victor.dang@dot.gov">Victor.dang@dot.gov</a>	404-562-3654
Brendan Feery	FHWA	<a href="mailto:Brendan.feery@dot.gov">Brendan.feery@dot.gov</a>	404-562-3444
Leon Kim	FHWA	<a href="mailto:Leon.kim@dot.gov">Leon.kim@dot.gov</a>	404-562-3636
Justin Messer	GDOT – District 6 Area 4	<a href="mailto:jmesser@dot.ga.gov">jmesser@dot.ga.gov</a>	770-825-6402
Tyler Lumsden	GDOT – District 6	<a href="mailto:tlumsden@dot.ga.gov">tlumsden@dot.ga.gov</a>	770-630-2588
David Ray	GDOT – District 6	<a href="mailto:dray@dot.ga.gov">dray@dot.ga.gov</a>	678-721-5256
Michael Haithcock	GDOT – District 6	<a href="mailto:mhaithcock@dot.ga.gov">mhaithcock@dot.ga.gov</a>	678-227-2454
DeWayne Comer	GDOT – District 6	<a href="mailto:dcomer@dot.ga.gov">dcomer@dot.ga.gov</a>	770-387-3602
Steve Gaston	GDOT – Bridge	<a href="mailto:sgaston@dot.ga.gov">sgaston@dot.ga.gov</a>	404-631-1881
Keith Posey	GDOT – DP&S	<a href="mailto:kposey@dot.ga.gov">kposey@dot.ga.gov</a>	404-631-1219
Kenny Beckworth	GDOT – Construction	<a href="mailto:kbeckworth@dot.ga.gov">kbeckworth@dot.ga.gov</a>	770-387-3611
James Harry	GDOT – Construction	<a href="mailto:jharry@dot.ga.gov">jharry@dot.ga.gov</a>	404-326-6235
Melissa Harper	GDOT – Construction	<a href="mailto:mharper@dot.ga.gov">mharper@dot.ga.gov</a>	404-631-1771
Michele Pate	GDOT – Eng. Services	<a href="mailto:mpate@dot.ga.gov">mpate@dot.ga.gov</a>	404-631-1771
Andrew Hoenig	GDOT - IPD	<a href="mailto:ahoenig@dot.ga.gov">ahoenig@dot.ga.gov</a>	404-631-1757
Jim Aitken	HNTB	<a href="mailto:jaitken@hntb.com">jaitken@hntb.com</a>	404-946-5775
David Hannon	HNTB	<a href="mailto:dhannon@hntb.com">dhannon@hntb.com</a>	404-275-2829

### The following items were discussed:

1. Andrew Hoenig opened the meeting by leading introductions and providing background on the project.
  - a. The scope of the proposed project is to replace the existing SR 299 bridge over I-24 utilizing a weekend closure of SR 299. The bridge replacement will be done with accelerated bridge construction (ABC) techniques and let as a Design-Build (DB) project. No right-of-way is anticipated.
  - b. The current project schedule is:
    - Concept Team Meeting                      October 9, 2013
    - PIOH    December 3, 2013
    - CE Approval                                      Spring 2014
    - DB Letting                                        Summer 2014
    - Construction Complete                      Fall 2015
  - c. The project is Full Oversight, within the Chattanooga-Hamilton County Regional Planning Agency, and Congressional District 14.
  - d. The project is funded in 2015 and the cost estimate included in the concept report includes ABC bridge move, final design (to be done by the design build team), CEI, and construction contingencies.
2. David Hannon reviewed the project layout:
  - a. The project will replace the existing SR 299 Bridge over I-24 on the same alignment as the existing bridge. The new bridge will be wider to meet current AASHTO requirements.

- b. SR 299 is anticipated to be closed from 9:00 PM Friday to 5:00 AM Monday for a total closure of 56 hours. A detour will be established to allow traffic to get from the north side of SR 299 to the south side.
  - c. The group discussed the ability to construct the bridge using standard construction methods of either an onsite detour bridge, or staged construction that would allow for the new bridge to be built adjacent to the existing bridge in such a way that traffic could remain open during construction. Options that were discussed include:
    - Onsite detour with temporary bridge or using existing bridge during construction and realigning SR 299:
      - 1. This option is not being considered due to the high cost of the new or temporary bridge as the existing ground elevation adjacent to I-24 north of the existing alignment is approximately 60 feet below I-24 and has potential stream impacts.
      - 2. The wooded areas adjacent to the existing bridge include potential roosting habitat for the Indiana Bat and cannot be cleared in the breeding season which spans March 1 to October 31<sup>st</sup> of each year.
    - Onsite detour with staged construction:
      - 1. Staging for this would be difficult and would result in reduced lane widths and undesirable sight distance issues across the existing bridge.
      - 2. The staged construction would likely be done to the south of the existing bridge due to the steep slopes to the north and this would result in the new bridge alignment with a smaller horizontal curve radius which would be undesirable for the project.
      - 3. While this option would allow for traffic to remain open on SR 299, it would cause a detriment to the traveling public for a much longer duration (9 to 12 months).
  - d. This project has been received additional federal funding by agreeing to utilize ABC techniques. This funding will require the project to be constructed with ABC techniques.
  - e. A crossover on I-24 will likely need to be constructed to be able to demolish the existing bridge and to move the new bridge into place. This will require traffic to run as contra-flow separated by temporary barrier walls with reduced lane widths. The crossover of traffic on I-24 and contra-flow lanes will also be allowed only during the weekend closure of SR 299. Two separate crossovers will need to be done for each side of I-24.
  - f. Due to the high volume of traffic and truck traffic on I-24, the crossover will need to accommodate four lanes, two in each direction.
3. Context Sensitive Solutions
- a. Detour Route: The group discussed if the detour route should be done using county roads or State Routes. If county roads are used, then they may need to be upgraded to accommodate the additional traffic volumes. A detour on State Routes will involve routing traffic into Alabama and Tennessee and would require an agreement from both states. The group determined that a detour on State Routes is preferred.
    - Andrew to contact AIDOT and TnDOT to discuss detour route.
  - b. Weekend closure timeframe: The group discussed potential events that may impact when the weekend closure can be utilized. Known events include a Civil War reenactment and a Chattanooga Music Festival. Dates for these events and additional events will be identified through coordination with Dade County, TnDOT, and AIDOT.
    - Andrew to contact Dade County, TnDOT, and AIDOT regarding local events that would be impacted by the weekend closure.
  - c. Weekend closure impacts to gas stations on SR 299: There are gas stations and other small businesses located on the north and south sides of SR 299. Due to the crossover required and the construction staging for the weekend bridge move, the interchange ramps will likely be closed for the duration of the weekend closure and at a minimum the

ramps will be closed for the direction of traffic that is in contra-flow. This will cause a potential loss of business for all businesses on SR 299 at all times during the weekend ABC bridge move. No Right of Way (ROW) is being acquired from any of the businesses and the Department may not have a mechanism to pay these businesses for damages.

- Andrew to discuss business impacts with the ROW Office and identify mitigation measures.

1. Update: The ROW Office indicated that the gas stations and other businesses along SR 299 are not allowed any compensation for the closure of the ramps, interstate or SR 299.

4. Design and Structural Data:

- a. A Design Exception may be required for the 8% existing vertical grade on SR 299 adjacent to the existing bridge.
  - HNTB to determine if the 8% existing vertical grade on SR 299 can be fixed during the construction of the project or if a Design Exception is required.

5. Utilities:

- a. SUE for the project was is currently underway and is anticipated to be complete by the end of this month.
- b. Once SUE has been completed, IPD will work with the District Utilities Office to set up a Utility Coordination meeting with all affected utility owners with the goal of relocating all utility owners in advance of construction.

6. Transportation Management Plan (TMP)

- a. A TMP is required for this project. This is considered a non-significant project, but the TMP will need to include a Traffic Control Plan and Public Involvement component for the detour.

7. NEPA

- a. The NEPA document is currently anticipated to be an Categorical Exclusion.
- b. Air Quality: Has been submitted to the Office of Environmental Services and is waiting on approval.
- c. Ecology: Has been submitted to FWHA for concurrence.
- d. History: Has been approved.
- e. Archeology: Has been approved.
- f. Noise: Has been approved.
- g. The project justification statement has been completed.
- h. Public Involvement:
  - The PIOH is scheduled for December 3, 2013.
  - A detour meeting will be held as a joint effort by GDOT and the DB team 4-6 prior to the weekend closure.
  - Specific outreach will be done at that time to engage the trucking industry and local residents and businesses.

8. Design-Build Best Value

- a. This project is anticipated to use Best-Value to select the winning Design-Build team. Best Value allows the Department to use a combination of a technical score and a price score to award the project to the proposing Design-Build team with the highest combined score.
- b. The group discussed potential items to be reviewed as part of the technical scoring:
  - Overall construction time
  - Weekend closure time – the group determined that reducing the closure time from 56 hours would not provide a benefit.
  - Traffic Control – ability to keep ramps open
  - Construction Staging – ability to keep ramps open, safer construction zone for travelling public

- Safer design for SR 299 – reduction in vertical grades, super elevation, flatter curve radius, etc...
- c. Alternative Technical Concepts will also be allowed on this project. These will allow for the proposing Design-Build teams to propose alternative designs that are equal or better to the contract requirements.
- 9. FHWA Comments:
  - a. FHWA would like to have a project showcase for this project to highlight it nationally. GDOT does not have the time or resources necessary to lead a showcase at this time.

### **Action Items:**

- 1. Andrew to contact AIDOT and TnDOT to discuss detour route.**
- 2. Andrew to contact Dade County, TnDOT, and AIDOT regarding local events that would be impacted by the weekend closure.**
- 3. Andrew to discuss business impacts with the ROW Office and identify mitigation measures. [COMPLETED]**
  - a. Update: The ROW Office indicated that the gas stations and other businesses along SR 299 are not allowed any compensation for the closure of the ramps, interstate or SR 299.**
- 4. HNTB to determine if the 8% existing vertical grade on SR 299 can be fixed during the construction of the project or if a Design Exception is required.**

This represents our understanding of items discussed and decisions reached. Please contact Andrew Hoenig (404-631-1757 or [ahoenig@dot.ga.gov](mailto:ahoenig@dot.ga.gov)) if there are changes or additions no later than seven days after receipt.

cc: Attendees, Darryl VanMeter (GDOT), John Hancock (GDOT), Wayne Mote (HNTB)

# **Attachment H**

## **Justification Statement Coordination**

## O'Quinn, Dustin

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**From:** Hannon, David <dhannon@dot.ga.gov>  
**Sent:** Thursday, June 06, 2013 12:53 PM  
**To:** Anthony Prevost  
**Subject:** FW: Justification Statement for PI 011682 - Dade County  
**Attachments:** 2013-05-09\_PI\_No\_0011682\_Dade.docx

\*\*\*\*\*

*David Hannon, P.E., CPESC  
Consultant - HNTB  
Cell: 404-275-2829*

*Working with the  
Office of Innovative Program Delivery  
Darryl D. VanMeter, P.E.*

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Pedestrian and bicyclist fatalities on Georgia roadways increased nearly 25 percent in 2012. Georgia DOT's most important priority is to provide for the safety of all users of the state's transportation system. Please avoid distractions; drive safely at all times; share the roadway and be especially alert and cautious in the presence of pedestrians and bicyclists.

Visit us at <http://www.dot.ga.gov>; or follow us on <http://www.facebook.com/GeorgiaDOT> and <http://twitter.com/gadeptoftrans>

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**From:** Hoenig, Andrew  
**Sent:** Thursday, June 06, 2013 10:14 AM  
**To:** Hannon, David  
**Subject:** FW: Justification Statement for PI 011682 - Dade County

*- Andrew Hoenig  
P: (404)-631-1757*

---

**From:** Bennett, Clayton  
**Sent:** Thursday, June 06, 2013 6:27 AM  
**To:** Hoenig, Andrew  
**Subject:** Justification Statement for PI 011682 - Dade County

Andrew,

Please find attached the justification statement for the subject project.

If you have any questions please feel free to contact me.

Regards,

Clayton Bennett, P.E.  
GDOT State Bridge Inspection Engineer

935 East Confederate Avenue, SE  
Building 24, Room 406  
Atlanta, Georgia 30316-2531  
Office number 404-635-2889  
Cell number 404-519-9287

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The Georgia Department of Transportation continues its RoadWorks 2013 construction program. Dozens of important roadway improvement projects are ongoing throughout the state this summer as we work to deliver projects on time and on budget while keeping our transportation network the nation's finest. Pardon the necessary inconvenience and please drive cautiously and safely at all times, especially in work zones.

Visit us at <http://www.dot.ga.gov>; or follow us on <http://www.facebook.com/GeorgiaDOT> and <http://twitter.com/gadeptoftrans>

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Visit us at <http://www.dot.ga.gov>; or follow us on <http://www.facebook.com/GeorgiaDOT> and <http://twitter.com/gadeptoftrans>

**PI 0011682**

**Clayton Bennett**

**May 13, 2013**

This bridge (Structure ID 083-0020-0; SR 299 over I-24 (SR 409)) was built in 1965. The bridge consists of four spans of steel girders on concrete caps and columns. The overall condition of this bridge would be classified as fair. The deck is in fair condition with concrete spalls and heavy transverse cracking throughout. The superstructure is in satisfactory condition with minor deterioration of the steel girders. The substructure is in fair condition with moderate to heavy concrete cracking and signs of rebar deterioration. Due to the structural integrity of the bridge and the condition of the deck and substructure replacement is recommended.



**Attachment I**

**Public Involvement Open House**

**Synopsis**

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

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## INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. Nos. 0011682 OFFICE: Environmental Services  
DATE: December 3, 2013

FROM Glenn Bowman, P.E., State Environmental Administrator

TO Distribution Below

SUBJECT PUBLIC INFORMATION OPEN HOUSE SYNOPSIS

PROJECT NOS. & COUNTY: Dade

PROJECT DESCRIPTION: This project is the replacement of the existing bridge on SR 299 over I-24 using Accelerated Bridge Construction (ABC), replacing the bridge over a weekend.

DATE: December 3, 2013

NUMBER IN ATTENDANCE: 37

FOR: 7

CONDITIONAL: 3

UNCOMMITTED: 0

AGAINST: 0

OFFICIALS IN ATTENDANCE: 1

ADDITIONAL COMMENTS: Better signage is needed at the interchange after construction; widen the bridge while replacing; clearing and lighting for more visibility at ramps.

PREPARED BY: Charlotte Weber, HNTB

TELEPHONE No.: (404) 946-5712

cc: Russell McMurray, P.E.  
Andrew Hoenig, P.E.  
P. Paul Alimia  
Chérie Marsh, District 6