



Interoffice Memo
Office of Design Policy & Support

DATE: 10/9/2020

FILE: P.I.# 0017389
Chatham County / GDOT District 5 - Jesup
Cherokee County / GDOT District 6 - Cartersville
Cobb County / GDOT District 7 - Metro Atlanta
Statewide ITS Dynamic Message Sign (DMS) Deployment – PH I

FROM: *Dane Peters*
for R. Christopher Rudd, PE, State Design Policy Engineer

TO: SEE DISTRIBUTION

SUBJECT: APPROVED CONCEPT REPORT

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

Attachment

Distribution:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3
Albert Shelby, Director of Program Delivery
Carol Comer, Director, Division of Intermodal
Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator
Matthew Markham, Deputy Director of Planning
Kim Nesbitt, Program Delivery Administrator
Bobby Hilliard, Program Control Administrator
Eric Duff, State Environmental Administrator
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Erik Rohde, State Project Review Engineer
Monica Flournoy, State Materials Engineer
Patrick Allen, State Utilities Engineer
Eric Conklin, State Transportation Data Administrator
Attn: Systems & Classification Branch
Benny Walden, Statewide Location Bureau Chief
Ed David Adams, State Safety Program Manager
Robert McCall, District 5 District Engineer
Grant Waldrop, District 6 District Engineer
Kathy Zahul, District 7 District Engineer
Troy Pittman, District 5 Preconstruction Engineer
David Acree, District 6 Preconstruction Engineer
Paul DeNard, District 7 Preconstruction Engineer
Dallory Rozier, District 5 Utilities Engineer; Jun Birnkammer, District 6 Utilities Manager and
Shun Pringle, District 7 Utilities Manager
Anthony Tate, Project Manager
BOARD MEMBERS - 1st Congressional District and 11th Congressional District



Limited Scope Project Concept Report

Project Type: ITS P.I. Number: 0017389
 GDOT District: 5, 6, 7 County: Chatham, Cherokee & Cobb
 Federal Route Number: I-75, I-575, US41 State Route Number: 21, 21 Alt., 3 ~OB
 Project Number: n/a

ITS DYNAMIC MESSAGE SIGN (DMS) DEPLOYMENT – PH 1: Deployment of traveler information DMS sites at essential interchanges in Atlanta and Savannah areas.

** Concept Report resubmitted 9/25/20*

Submitted for approval:

Janet Middleton
 Janet Middleton, P.E. & Arcadis 9/22/2020
 Date
Darryl D. Van Meter
 State Innovative Delivery Administrator Date
Anthony Testa
 GDOT Project Manager 9/23/20
 Date

Recommendation for approval: ** Recommendations are on file ~OB*

Eric Duff 8/25/20
 State Environmental Administrator Date
Chris Raymond 8/31/20
 for State Traffic Engineer Date
Troy Pittman 8/27/20
 for District Five District Engineer Date
Grant Waldrop 8/31/20
 District Six District Engineer Date
Paul DeNard 9/10/20
 for District Seven District Engineer Date

- MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).
- Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

Digitally signed by Tom McQueen
 DN: c=US, E=tmcqueen@dot.ga.gov,
 O=GDOT, OU=Office of Planning, CN=Tom
 McQueen
 Date: 2020.09.03 10:38:58-0400
 Tom McQueen 9/3/20
 State Transportation Planning Administrator Date

Approval:

Concur: *Hiel Petel* 10/5/2020
 GDOT Director of Engineering Date

Approve: 10/9/2020
 GDOT Chief Engineer Date

** Recommendations were also received from the following:*

Office of Utilities: Marcela Coll 8/20/20
Office of Engineering Services: Erik Rohde 8/22/20
Office of Intermodal: Alan C. Hood 8/28/20

PROJECT LOCATION MAP

Location 1 – SR 21 Alt/Jimmy Deloach Connector southbound between Crossgate Road and Bonnybridge Road (Chatham County)

Location 2 – SR 21/Augusta Road southbound between International Trade Parkway and Pinder Point Road (Chatham County)



Location 3 – US 41/SR 3/Cobb Parkway northbound approach to Cumberland Blvd SE intersection (Cobb County)

Location 4 – US 41/SR 3/Cobb Parkway southbound approach to Akers Mill Road SE intersection (Cobb County)



Location 5 – Sixes Rd and I-575 southbound on-ramp (Cherokee County)



PLANNING & BACKGROUND DATA

Prepared By: Office of Innovative Delivery **Date:** 5/7/2020

Project Justification Statement:

This Design-Build (DB) project is for the deployment of Intelligent Transportation Systems (ITS) Dynamic Message Signs (DMS) at five locations of Chatham, Cherokee and Cobb Counties. Location 1 is southbound Jimmy Deloach Connector (SR 21Alt) between Crossgate Road and Bonny Bridge Road in Chatham County. Location 2 is southbound SR 21 (Augusta Road) south of International Trade Parkwy in Chatham County. Location 3 is northbound SR 3 (Cobb Parkway) approaching Cumberland Blvd SE in Cobb County. Location 4 is southbound SR 3 (Cobb Parkway) approaching Akers Mill Rd SE in Cobb County. And Location 5 is the southbound on-ramp to I-575 at Sixes Road in Cherokee County. The DMS signs will disseminate travel time information to roadway users as well as provide information about the status of the surrounding roadway network, especially the higher volume Limited Access and/or tolled facilities. The ITS DMS program includes elements such as traffic cameras, electronic message signs and a communications network. All system elements will be tied back to the central Transportation Management Center (TMC) via fiber optic cable or wireless modems.

Existing conditions:

Location 1 – SR 21Alt / Jimmy Deloach Connector

This section of SR 21 Alt (Jimmy Deloach Connector) has 2 southbound lanes and 2 northbound lanes between Crossgate Road and Bonnybridge Road. The lanes are barrier separated with approximately 4 foot paved inside shoulders and approximately 10 foot paved outside shoulders. Guardrail is provided for approximately 890 feet along the southbound side.

Location 2 – SR 21 / Augusta Road

This section of the road on SR 21/Augusta Rd has 2 through lanes with a 10-ft outside shoulder southbound, and 2 through lanes, 1 right turn lane, 1 left turn lane Northbound with a 0-ft to 12-ft outside shoulder. The southbound and northbound lanes are separated by a 12-ft to 40-ft median.

Location 3 – SR 3 / Cobb Parkway Northbound approaching Cumberland Blvd SE

SR 3/Cobb Parkway northbound has 3 through lanes, 2 left turn lanes, and 1 right turn lane, southbound provides 3 through lanes. Southbound and northbound lanes are separated with a varying median width of 9-ft to 30-ft with curb and gutter. There is a 10-ft sidewalk on the southbound side and a 5-ft sidewalk along the northbound section of the road.

Location 4 – SR 3 / Cobb Parkway Southbound approaching Akers Mill Road SE

This location of SR 3/ Cobb Parkway from Professional Parkway to Galleria Parkway has 4 through lanes with 2 left turn lanes southbound. From Galleria Parkway to Akers Mill Road, it has 3 through lanes, 1 right turn lane, and 2 left turn lanes heading southbound from Galleria Parkway to Akers Mill Rd. It has 3 through lanes, 1 right turn lane, and 2 left turn lanes. Northbound and southbound lanes are separated with a 4-ft median and 5-ft sidewalk on both sides of the road.

Location 5 – I-575 southbound on-ramp at Sixes Road

The I-575 on-ramp from Sixes Road begins with 3 lanes that merge into 2 lanes before merging with I-575 Interstate southbound. The on-ramp has varying 4-ft to 20-ft paved inside shoulder and varying 10-ft to 14-ft outside shoulder.

Other projects in the area:

PI Number	Project Description	Project Let Date	In Conflict with PI#0017389	Location
PI#M006036	I-575 FROM I-75 TO ETOWAH RIVER	7/8/2020	No	Sixes Rd
PI# 0015765	I-575 FROM CS 698/RIDGEWALK PKWY/CHEROKEE TO SR 372/PICKENS	8/9/2019	No	Sixes Rd
PI#M005960	I-75 FROM 0.45 MI N OF ALLGOOD ROAD TO CHEROKEE COUNTY LINE	4/30/2020	No	Sixes Rd
PI#0015765	I-575 FROM CS 698/RIDGEWALK PKWY/CHEROKEE TO SR 372/PICKENS	8/9/2019	No	Sixes Rd
PI# 0015765	I-575 FROM CS 698/RIDGEWALK PKWY/CHEROKEE TO SR 372/PICKENS	8/9/2019	No	Sixes Rd
PI# M005338	SR 4 SO @ 1 LOC & SR 26 @ 1 LOC - BRIDGE PRESERVATION	1/10/2018	No	Augusta Rd
PI# M005919	SR 21 / AUGUSTA RD FROM SMITH AVE TO HENDLEY ROAD	4/17/2020	No	Augusta Rd
PI#M005572	I-285 @ 8 LOCS IN COBB & FULTON - BRIDGE PRESERVATION	10/16/2019	No	Cobb Parkway
PI # 0017435	I-575 SB @ CR779/SIXES ROAD – RAMP METERS	2020	Yes	Sixes Road

MPO: N/A TIP #: N/A

Congressional District(s): 1, 11

Federal Oversight: PoDI Exempt State Funded Other

Location 1 – SR 21 Alt / Jimmy Deloach Connector

Projected Traffic: 24 HR T:_% Current Year (2019): 10,700
 Open Year (2021): N/A Design Year (20yy): N/A
 Traffic Projections Performed by: GDOT TADA
 Date approved by the GDOT Office of Planning: N/A

AASHTO Functional Classification (Mainline): Minor Arterial
AASHTO Context Classification (Mainline): Rural
AASHTO Project Type (Mainline): Construction on existing roads
Is the project located on a NHS roadway? No Yes

Location 2 – SR 21 / Augusta Road

Projected Traffic: 24 HR T:_% Current Year (2019): 28,700
 Open Year (2021): N/A Design Year (20yy): N/A
 Traffic Projections Performed by: GDOT TADA
 Date approved by the GDOT Office of Planning: N/A

AASHTO Functional Classification (Mainline): Principal Arterial
AASHTO Context Classification (Mainline): Rural
AASHTO Project Type (Mainline): Construction on existing roads
Is the project located on a NHS roadway? No Yes

Location 3 – US 41/ SR 3/ Cobb Parkway Northbound

Projected Traffic: 24 HR T:_% Current Year (2019): 19,800
 Open Year (2021): N/A Design Year (20yy): N/A

Initial Pavement Evaluation Summary Report Required? No Yes
Feasible Pavement Alternatives: HMA PCC HMA & PCC

Is the project located on a Special Roadway or Network? No Yes

- **Location 1 - SR 21 Alt / Jimmy Deloach Connector**
 - Intermodal Connector
 - Statewide Freight Corridor
 - Industrial Roadway
- **Location 2 - SR 21 / Augusta Road**
 - National Highway System
 - Statewide Freight Corridor
 - Industrial Roadway
- **Location 3 - SR 5 / Cobb Pkwy**
 - National Highway System
- **Location 4 - SR 5 / Cobb Pkwy**
 - National Highway System
- **Location 5 – I-575 Southbound on-ramp at Sixes Road**
 - National Highway System
 - Statewide Freight Corridor
 - Industrial Roadway

Is the project located on or intersect an RTOP corridor? No Yes Locations 3 and 4 only

Is Federal Aviation Administration coordination anticipated? No Yes

Location 1: 1.5 Miles off the end of proposed new Runway at Savannah/Hilton Head International Airport (SAV), and in proximity of navigation facility. Needs to be submitted for study via <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>. Any associated construction equipment taller than a 15' vehicle should be submitted for study as well.

Please ensure a note goes in the construction plans that says:

ANY VERTICAL CONSTRUCTION EQUIPMENT, SUCH AS CRANES, IN EXCESS OF 15 FEET ABOVE THE ROADWAY ELEVATION MUST BE EVALUATED BY THE FAA.

EVALUATION BY FILING OF "NOTICE OF PROPOSED CONSTRUCTION" FAA FORM 7460-1 MUST BE ACCOMPLISHED NOT EARLIER THAN 18 MONTHS AND NOT LATER THAN 120 DAYS PRIOR TO CONSTRUCTION.

E-FILE AT <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

Location 2: 2.8 Miles off the end of existing Runway at Savannah/Hilton Head International Airport (SAV), and in proximity of navigation facility. Needs to be submitted for study via <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>. Any associated construction equipment taller than a 15' vehicle should be submitted for study as well.

Please ensure a note goes in the construction plans that says:

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E-FILE AT <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

Location 3: In proximity of navigation facility, but only needs to be studied if height, or construction equipment exceeds 50' above the ground.

Please ensure a note goes in the construction plans that says:

ANY VERTICAL CONSTRUCTION EQUIPMENT, SUCH AS CRANES, IN EXCESS OF 50 FEET ABOVE THE ROADWAY ELEVATION MUST BE EVALUATED BY THE FAA.

EVALUATION BY FILING OF “NOTICE OF PROPOSED CONSTRUCTION” FAA FORM 7460-1 MUST BE ACCOMPLISHED NOT EARLIER THAN 18 MONTHS AND NOT LATER THAN 120 DAYS PRIOR TO CONSTRUCTION.

E-FILE AT <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

Location 4: In proximity of navigation facility, but only needs to be studied if height, or construction equipment exceeds 50’ above the ground.

Please ensure a note goes in the construction plans that says:

ANY VERTICAL CONSTRUCTION EQUIPMENT, SUCH AS CRANES, IN EXCESS OF 50 FEET ABOVE THE ROADWAY ELEVATION MUST BE EVALUATED BY THE FAA.

EVALUATION BY FILING OF “NOTICE OF PROPOSED CONSTRUCTION” FAA FORM 7460-1 MUST BE ACCOMPLISHED NOT EARLIER THAN 18 MONTHS AND NOT LATER THAN 120 DAYS PRIOR TO CONSTRUCTION.

E-FILE AT <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

Location 5: In proximity of navigation facility, but only needs to be studied if height, or construction equipment exceeds 50’ above the ground.

Please ensure a note goes in the construction plans that says:

ANY VERTICAL CONSTRUCTION EQUIPMENT, SUCH AS CRANES, IN EXCESS OF 50 FEET ABOVE THE ROADWAY ELEVATION MUST BE EVALUATED BY THE FAA.

EVALUATION BY FILING OF “NOTICE OF PROPOSED CONSTRUCTION” FAA FORM 7460-1 MUST BE ACCOMPLISHED NOT EARLIER THAN 18 MONTHS AND NOT LATER THAN 120 DAYS PRIOR TO CONSTRUCTION.

E-FILE AT <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

DESIGN AND STRUCTURAL

Description of the proposed project:

This project includes installation of five (5) dynamic message signs (DMS) on overhead sign structures at locations throughout the state of Georgia. Under this project, fiber-optic cable will be installed in outside grass shoulders or urban medians. Additionally, concrete poles with closed circuit television camera units will be installed at or near each location. Cabinets and pull boxes will be installed as part of the project.

Major Structures:

Structure	Existing	Proposed
Location 1 - SR 21Alt / Jimmy Deloach Connector	N/A	ITS DMS Overhead Sign Structure, Type III, 3x15 Structure number to be assigned
Location 2 – SR 21 / Augusta Rd	N/A	ITS DMS Overhead Sign Structure, Type III, 3x15 Structure number to be assigned
Location 3 - SR 3 NB @ Cumberland Blvd	N/A	ITS DMS Overhead Sign Structure, Type III, 3x15 Structure number to be assigned
Location 4 – SR 3 SB @ Akers Mill Road	N/A	ITS DMS Overhead Sign Structure, Type III, 3x15 Structure number to be assigned
Location 5 – I-575 SB On-ramp @ Sixes Rd	N/A	ITS DMS Overhead Sign Structure, Type III, 3x15 Structure number to be assigned

Mainline Design Features:

Location 1 – SR 21 Alt / Jimmy Deloach Connector

SR 21 Alt / Jimmy Deloach Connector	Functional Classification: <i>Principal Arterial</i>		
Feature	Existing	*Policy	Proposed
Typical Section:			
- Number of Lanes	4		N/A
- Lane Width(s) (-ft)	11-ft		N/A
- Median Width (-ft) & Type	10-ft Concrete Barrier		N/A
- Shoulder Width (-ft) (Outside)	12-ft (10-ft paved)		N/A
- Border Area Width (-ft)	N/A		N/A
- Cross Slope (%)	N/A		N/A
- Outside Shoulder Slope (%)	N/A		N/A
- Inside Shoulder Width (-ft)	N/A		N/A
- Sidewalks (-ft)	N/A		N/A
- Auxiliary Lanes (#lanes/-ft width)	N/A		N/A
- Bike Accommodations	N/A		N/A
Posted Speed (mph)	55		55
Design Speed (mph)	55		55
Minimum Horizontal Curve Radius (-ft)	N/A		
Maximum Superelevation Rate (%)	N/A		
Maximum Grade (%)	N/A		
Access Control	Full Control		
Check Vehicle	WB-67		
Pavement Type	PCC		
Clear Zone		22'-24'	

*According to current GDOT Design Policy if applicable

Location 2 – SR 21 / Augusta Rd

SR 21 / Augusta Road	Functional Classification: <i>Principal Arterial</i>		
Feature	Existing	*Policy	Proposed
Typical Section:			
- Number of Lanes	4		N/A
- Lane Width(s) (-ft)	12		N/A
- Median Width (-ft) & Type	16-ft Raised 40-ft Depressed		N/A
- Shoulder Width (-ft) (Outside)	12-ft		N/A
- Border Area Width (-ft)	N/A		N/A
- Cross Slope (%)	N/A		N/A
- Outside Shoulder Slope (%)	N/A		N/A
- Inside Shoulder Width (-ft)	12-ft (4-ft paved)		N/A
- Sidewalks (-ft)	N/A		N/A
- Auxiliary Lanes (#lanes/-ft width)	N/A		N/A
- Bike Accommodations	N/A		N/A
Posted Speed (mph)	55		55
Design Speed (mph)	55		55
Minimum Horizontal Curve Radius (-ft)	N/A		N/A
Maximum Superelevation Rate (%)	N/A		N/A
Maximum Grade (%)	N/A		
Access Control	Permitted		
Check Vehicle			
Pavement Type			
Clear Zone		22'-24'	

*According to current GDOT Design Policy if applicable

Location 3 – SR 3 / Cobb Parkway Northbound approaching Cumberland Blvd SE

SR 3 / Cobb Parkway	Functional Classification: <i>Principal Arterial</i>		
Feature	Existing	*Policy	Proposed
Typical Section:			
- Number of Lanes	6		N/A
- Lane Width(s) (-ft)	12-ft		N/A
- Median Width (-ft) & Type	4-ft Raised median		N/A
- Shoulder Width (-ft) (Outside)	N/A		N/A
- Border Area Width (-ft)	N/A	10-16 feet	N/A
- Cross Slope (%)	N/A		N/A
- Outside Shoulder Slope (%)	N/A		N/A
- Inside Shoulder Width (-ft)	N/A		N/A
- Sidewalks (-ft)	5-ft NB / 12-ft SB		N/A
- Auxiliary Lanes (#lanes/-ft width)	N/A		N/A
- Bike Accommodations	N/A		N/A
Posted Speed (mph)	45		45
Design Speed (mph)	45		45
Minimum Horizontal Curve Radius (-ft)	N/A		
Maximum Superelevation Rate (%)	N/A		
Maximum Grade (%)	N/A		
Access Control	Permitted		
Check Vehicle			
Pavement Type	HMA		
Clear Zone		20'-22'	

*According to current GDOT Design Policy if applicable

Location 4 – SR 3 / Cobb Parkway Southbound approaching Akers Mill Rd SE

SR 3 / Cobb Parkway	Functional Classification: <i>Principal Arterial</i>		
Feature	Existing	*Policy	Proposed
Typical Section:			
- Number of Lanes	8		N/A
- Lane Width(s) (-ft)	12-ft		N/A
- Median Width (-ft) & Type	12-ft – 36-ft Raised median		N/A
- Shoulder Width (-ft) (Outside)	N/A		N/A
- Border Area Width (-ft)	N/A	10-16 feet	N/A
- Cross Slope (%)			N/A
- Outside Shoulder Slope (%)			N/A
- Inside Shoulder Width (-ft)	N/A		N/A
- Sidewalks (-ft)	5-ft		N/A
- Auxiliary Lanes (#lanes/-ft width)	N/A		N/A
- Bike Accommodations	N/A		N/A
Posted Speed (mph)	45		45
Design Speed (mph)	45		45
Minimum Horizontal Curve Radius (-ft)	N/A		N/A
Maximum Superelevation Rate (%)	N/A		N/A
Maximum Grade (%)	N/A		N/A
Access Control	Permitted		
Check Vehicle			
Pavement Type	HMA		
Clear Zone		20'-22'	

*According to current GDOT Design Policy if applicable

Location 5 – I-575 southbound on-ramp at Sixes Road

Interstate 575 on-Ramp at Sixes Road	Functional Classification: <i>Interstates</i>		
Feature	Existing	*Policy	Proposed
Typical Section:			
- Number of Lanes	3		N/A
- Lane Width(s) (-ft)	12-ft		N/A
- Median Width (-ft) & Type	N/A		N/A
- Shoulder Width (-ft) (Outside)	12-ft		N/A
- Border Area Width (-ft)	N/A		N/A
- Cross Slope (%)	N/A		N/A
- Outside Shoulder Slope (%)	N/A		N/A
- Inside Shoulder Width (-ft)	0-ft – 20-ft		N/A
- Sidewalks (-ft)	N/A		N/A
- Auxiliary Lanes (#lanes/-ft width)	N/A		N/A
- Bike Accommodations	N/A		N/A
Posted Speed (mph)	N/A		N/A
Design Speed (mph)	45		45
Minimum Horizontal Curve Radius (-ft)	N/A		N/A
Maximum Superelevation Rate (%)	N/A		N/A
Maximum Grade (%)	N/A		N/A
Access Control	Full Control		Full Control
Check Vehicle	WB-67		
Pavement Type	HMA		
Clear Zone		22'-24'	

*According to current GDOT Design Policy if applicable

Design Exceptions/Design Variances to FHWA or GDOT Controlling Criteria anticipated: None

Design Variances to GDOT Standard Criteria anticipated: None

Lighting Required: No Yes

Off-site Detours Anticipated: No Undetermined Yes

If yes: Roadway type to be closed: Local Road State Route
 Detour Route selected: Local Road State Route
 District Concurrence w/Detour Route: No/Pending Received *Date*

Transportation Management Plan [TMP] Required: No Yes

If Yes: Project classified as: Non-Significant
 TMP Components Anticipated: TTC

INTERCHANGES AND INTERSECTIONS

Interchanges/Major Intersections:

Location 1 – SR 21 Alt / Jimmy Deloach Connector

SR 21 Alt/Jimmy Deloach Connector @ Grange Rd
 SR 21 Alt/Jimmy Deloach Connector @ Sonny Dixon Interchange

Location 2 – SR 21 / Augusta Rd

Augusta Rd @ International Trade Parkway

Location 3 – SR 3 / Cobb Parkway Northbound

SR 3/ Cobb Parkway @ Cumberland Blvd

Location 4 – SR 3 / Cobb Parkway Southbound

SR 3/ Cobb Parkway @ I-285

SR 3/ Cobb Parkway @ Professional Parkway

SR 3/ Cobb Parkway @ Galleria Parkway/Cumberland Mall Entrance

SR 3/ Cobb Parkway @ Akers Mill Rd

Location 5 – I-575 southbound on-ramp at Sixes Road

Sixes Rd @ I-575

Intersection Control Evaluation (ICE) Required: No Yes

Roundabout Concept Validation Required: No Yes Completed *Date*

UTILITY AND PROPERTY

Railroad Involvement: N/A

Utility Involvements:

Location 1: Georgia Power – Dist., Comcast, City of Port Wentworth Water, City of Port Wentworth Sewer, AT&T, Georgia Power Transmission

Location 2: Georgia Power – Dist., Comcast, City of Port Wentworth Water, City of Port Wentworth Sewer, AT&T, Georgia Power Transmission

Location 3: Georgia Power, SRTA

Location 4: Georgia Power, SRTA

Location 5: Georgia Power – Dist., AT&T, Comcast, Atlanta Gas Light Company, Cherokee Co. Water and Sewer, City of Woodstock

SUE Required: No Yes

Public Interest Determination Policy and Procedure recommended: No Yes

Right-of-Way (ROW): Existing width: varies ft. Proposed width: varies ft.

Required Right-of-Way anticipated: None Yes Undetermined

Easements anticipated: None Temporary Permanent * Utility Other

** Permanent easements include the right to place utilities.*

Anticipated total number of impacted parcels:	0	
Displacements anticipated:	Businesses:	0
	Residences:	0
	Other:	0
Total Displacements:	0	

Location and Design approval: Not Required Required

Impacts to USACE property anticipated: No Yes Undetermined

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document: *GEPA ~ None*

Level of Environmental Analysis:

- The environmental considerations noted below are based on preliminary desktop or screening level environmental analysis and are subject to revision after the completion of resource identification, delineation, and agency concurrence.
- The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.

MS4 Permit Compliance – Is the project located in a MS4 area? No Yes
If yes, is the GDOT MS4 Permit anticipated to apply to all or part of this project? No Yes
 This project disturbs less than 1 acre.

Is Non-MS4 water quality mitigation anticipated? No Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated: None.
 DMS locations should not be placed in Waters of the US. Land disturbance should be less than one acre per location.

Air Quality:

Is the project located in an Ozone Non-attainment area? No Yes
 The project is not included in any Transportation Plans due to lack of significance. Therefore, no project level analysis for O₃ is required.
 Is a Carbon Monoxide hotspot analysis required? No Yes

NEPA/GEPA Comments & Information: None.

It is assumed that the final location of the DMS will avoid any existing roadside drainages and pipes. Waters of the US are located along Augusta Road and Jimmy DeLoach Connector. Contract document stipulates DMS locations shall be in existing right-of-way and outside of Waters of the US and outside gore area of southbound on-ramp of Sixes Road and I-575.

Public Involvement: None

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Other coordination to date:

Project Activity	Party Responsible for Performing Task(s)
Concept Development	ARCADIS / GDOT
Design	DB Team
Right-of-Way Acquisition	N/A
Utility Coordination (Preconstruction)	GDOT District
Utility Relocation (Construction)	TBD (DB Team/Utility Owners)
Letting to Contract	GDOT/PMC
Construction Supervision	GDOT/PMC/GEC
Providing Material Pits	N/A
Providing Detours	N/A
Environmental Studies, Documents, & Permits	ARCADIS/DB Team
Environmental Mitigation	N/A
Construction Inspection & Materials Testing	GDOT

Project Cost Estimate Summary and Funding Responsibilities:						
	PE Activities		ROW	Reimbursable Utilities	CST	Total Cost
	PE Funding	Section 404 Mitigation				
Date of Estimate:					9/22/2020	
Funded By:	HB170	N/A	N/A	N/A	HB170	
Programmed Cost:	\$350,000		N/A	N/A	\$1,200,000	\$1,550,000
Estimated Cost:	\$350,000	N/A	N/A	\$0.00	\$1,447,114	\$1,797,114
Total Cost Difference:						\$247,114

ALTERNATIVES DISCUSSION

Alternative selection:

Preferred Alternative: Installation of five (5) dynamic message signs (DMS) on overhead sign structures at various locations throughout the state of Georgia. The ITS DMS program includes elements such as traffic camera units, electronic message signs and a communications network. All system elements will be tied back to the central Transportation Management Center (TMC) via fiber optic cable.

Estimated Property Impacts:	None	Estimated Total Cost:	\$1,797,114
Estimated ROW Cost:	\$0.00	Estimated CST Time:	9 months

Rationale: The DMS signs will disseminate travel time information to roadway users as well as provide information about the status of the surrounding roadway network, especially the higher volume Limited Access and/or tolled facilities. The DMS signs are to be installed within the existing ROW.

No-Build Alternative:			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0.00
Estimated ROW Cost:	\$0.00	Estimated CST Time:	N/A
Rationale: This alternative was not chosen as it does not meet the Project Justification Statement of disseminating information to roadway users.			

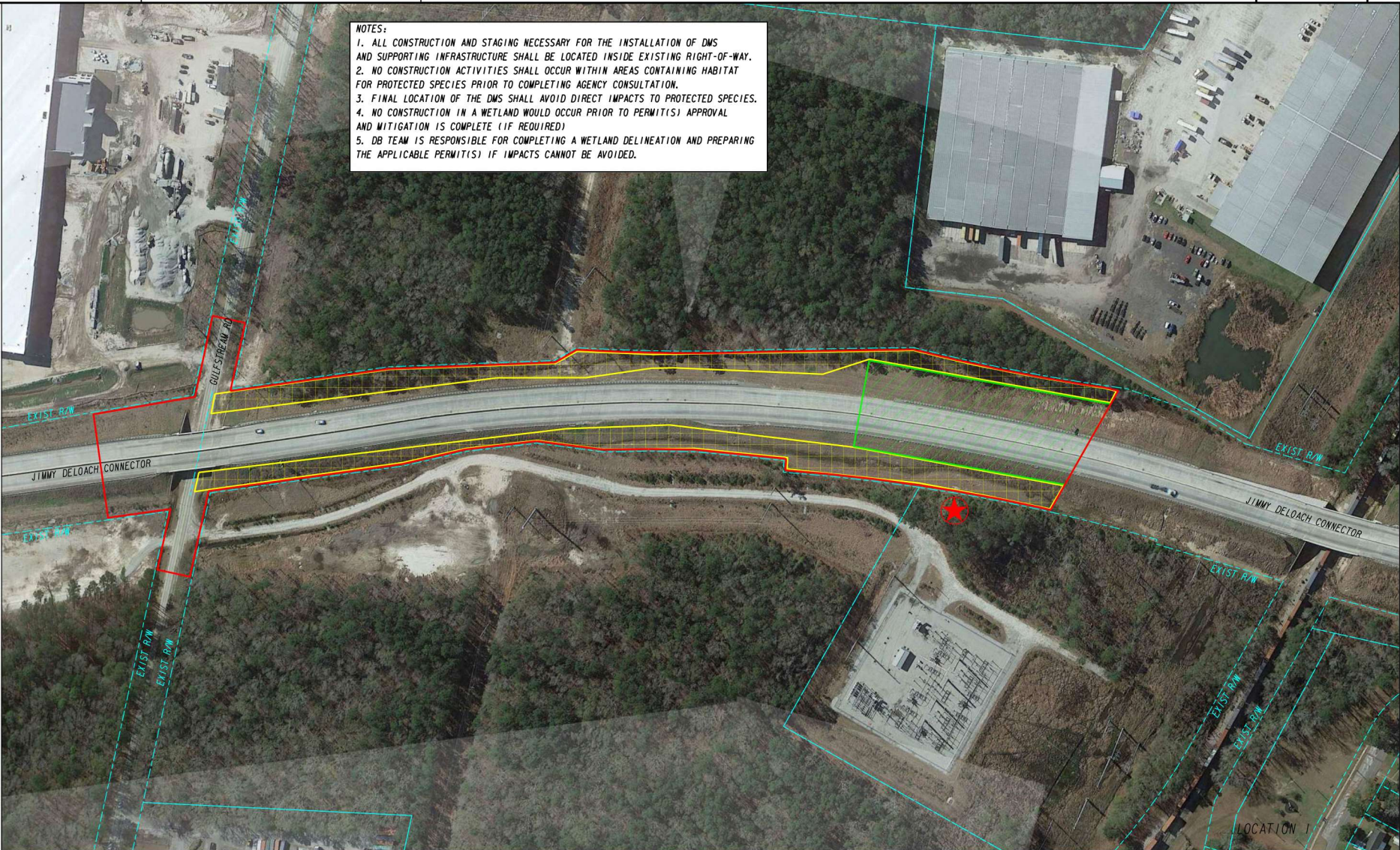
Comments:

LIST OF ATTACHMENTS/SUPPORTING DATA

1. Concept Areas of Interest
2. Typical Installation Detail
3. Detailed Cost Estimates:
 - a. Construction Estimate
 - b. Revisions to Programmed Costs forms, & Liquid AC Cost Adjustment forms
 - c. Utility Cost Estimates
4. MS4 Concept Report Summary

NOTES:

1. ALL CONSTRUCTION AND STAGING NECESSARY FOR THE INSTALLATION OF DMS AND SUPPORTING INFRASTRUCTURE SHALL BE LOCATED INSIDE EXISTING RIGHT-OF-WAY.
2. NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN AREAS CONTAINING HABITAT FOR PROTECTED SPECIES PRIOR TO COMPLETING AGENCY CONSULTATION.
3. FINAL LOCATION OF THE DMS SHALL AVOID DIRECT IMPACTS TO PROTECTED SPECIES.
4. NO CONSTRUCTION IN A WETLAND WOULD OCCUR PRIOR TO PERMIT(S) APPROVAL AND MITIGATION IS COMPLETE (IF REQUIRED)
5. DB TEAM IS RESPONSIBLE FOR COMPLETING A WETLAND DELINEATION AND PREPARING THE APPLICABLE PERMIT(S) IF IMPACTS CANNOT BE AVOIDED.

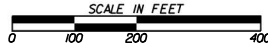


LEGEND

	ENVIRONMENTALLY SCREENED AREA
	DMS PREFERRED LOCATION
	UNDESIRABLE AREAS OF CONSTRUCTION
	POTENTIAL POWER SERVICE DISCONNECT LOCATION

GDOT Georgia Department of Transportation

ARCADIS Design & Consultancy for natural and built assets



REVISION DATES

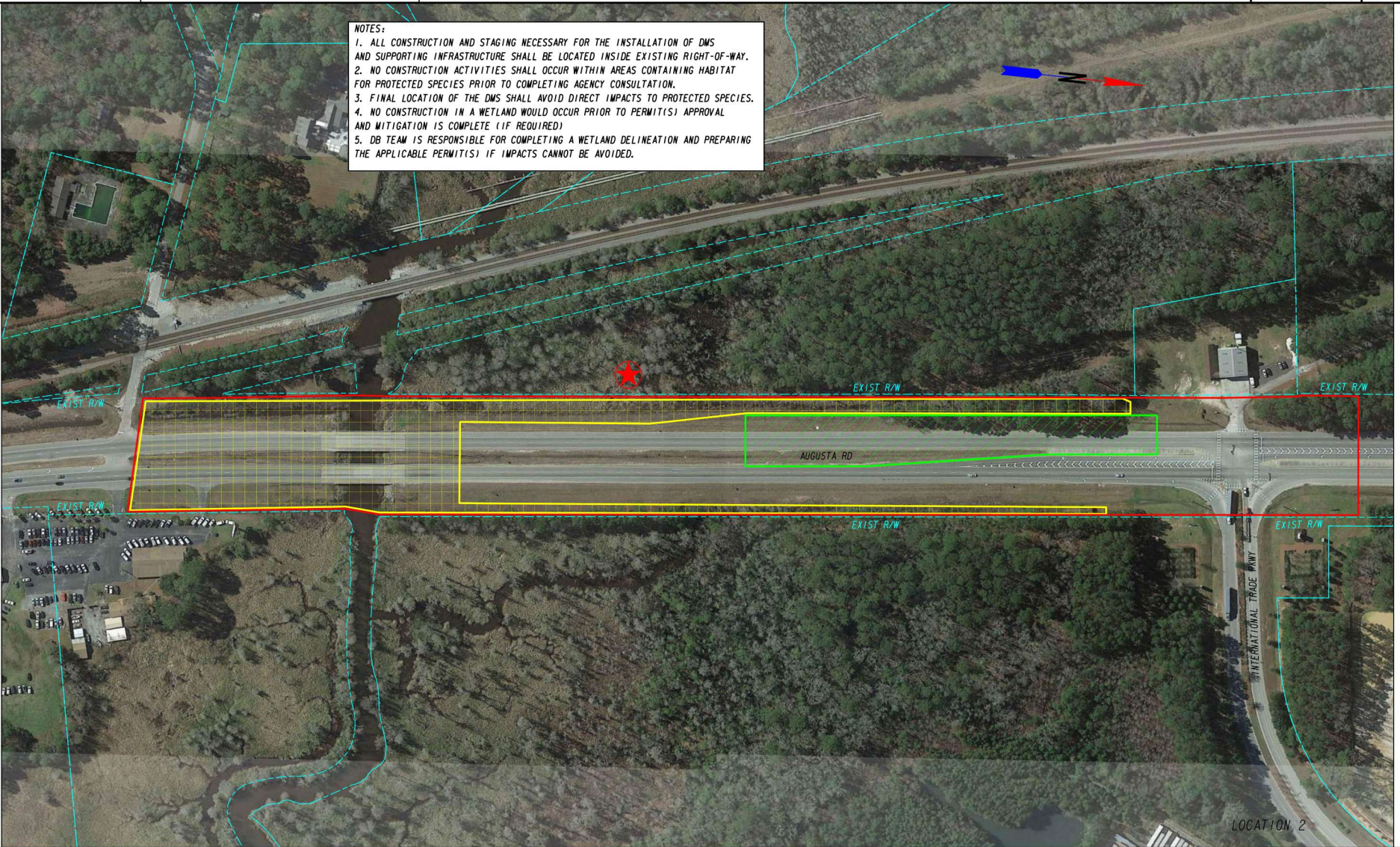
NO.	DATE	DESCRIPTION

ITS PLANS
ITS DMS DEPLOYMENT - PHASE 1
SR 21 ALT/JIMMY DELOACH CONNECTOR

CHECKED:	DATE:	DRAWING No.:
BACKCHECKED:	DATE:	28-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

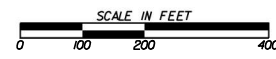
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LEGEND

	ENVIRONMENTALLY SCREENED AREA
	DMS PREFERRED LOCATION
	UNDESIRABLE AREAS OF CONSTRUCTION
	POTENTIAL POWER SERVICE DISCONNECT LOCATION

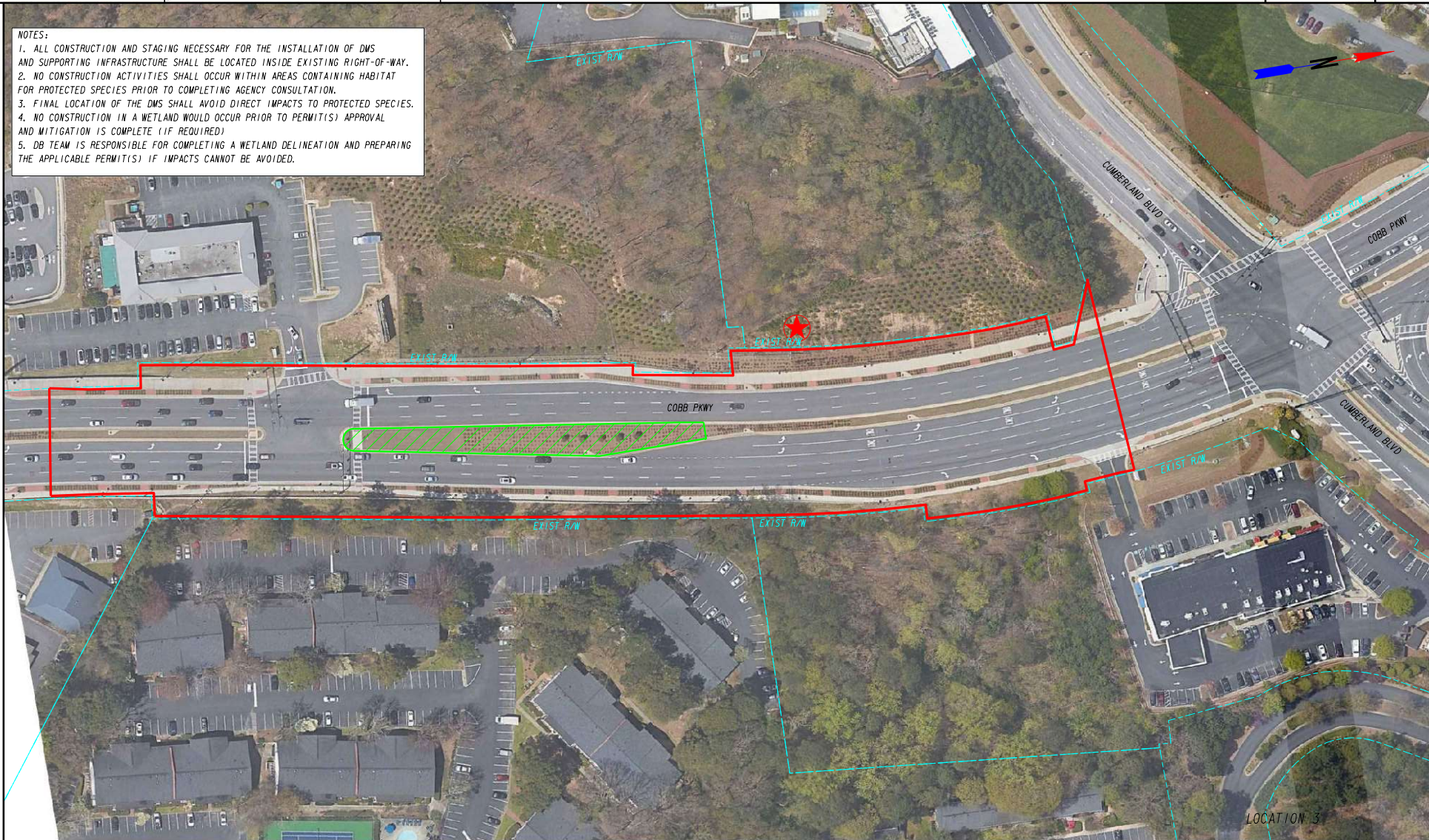


REVISION DATES	

ITS PLANS	
ITS DMS DEPLOYMENT - PHASE I	
SR 21 / AUGUSTA RD	
CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:
DRAWING No. 28-0002	





NOTES:

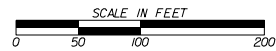
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LOCATION 3

LEGEND

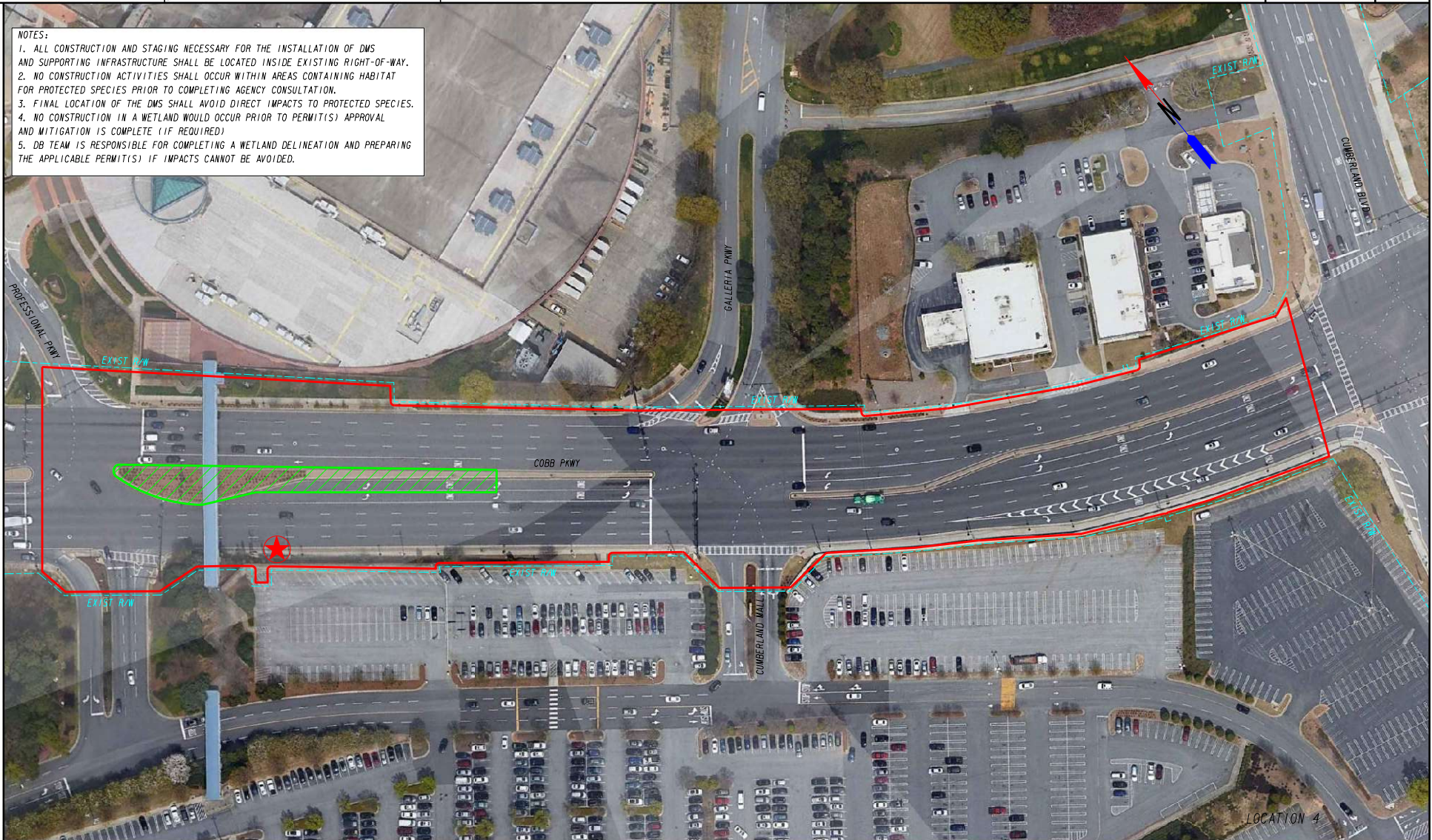
	ENVIRONMENTALLY SCREENED AREA
	DMS PREFERRED LOCATION
	UNDESIRABLE AREAS OF CONSTRUCTION
	POTENTIAL POWER SERVICE DISCONNECT LOCATION



REVISION DATES	

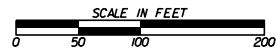
ITS PLANS		
ITS DMS DEPLOYMENT - PHASE 1		
COBB PKWY SOUTH		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	28-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTES:
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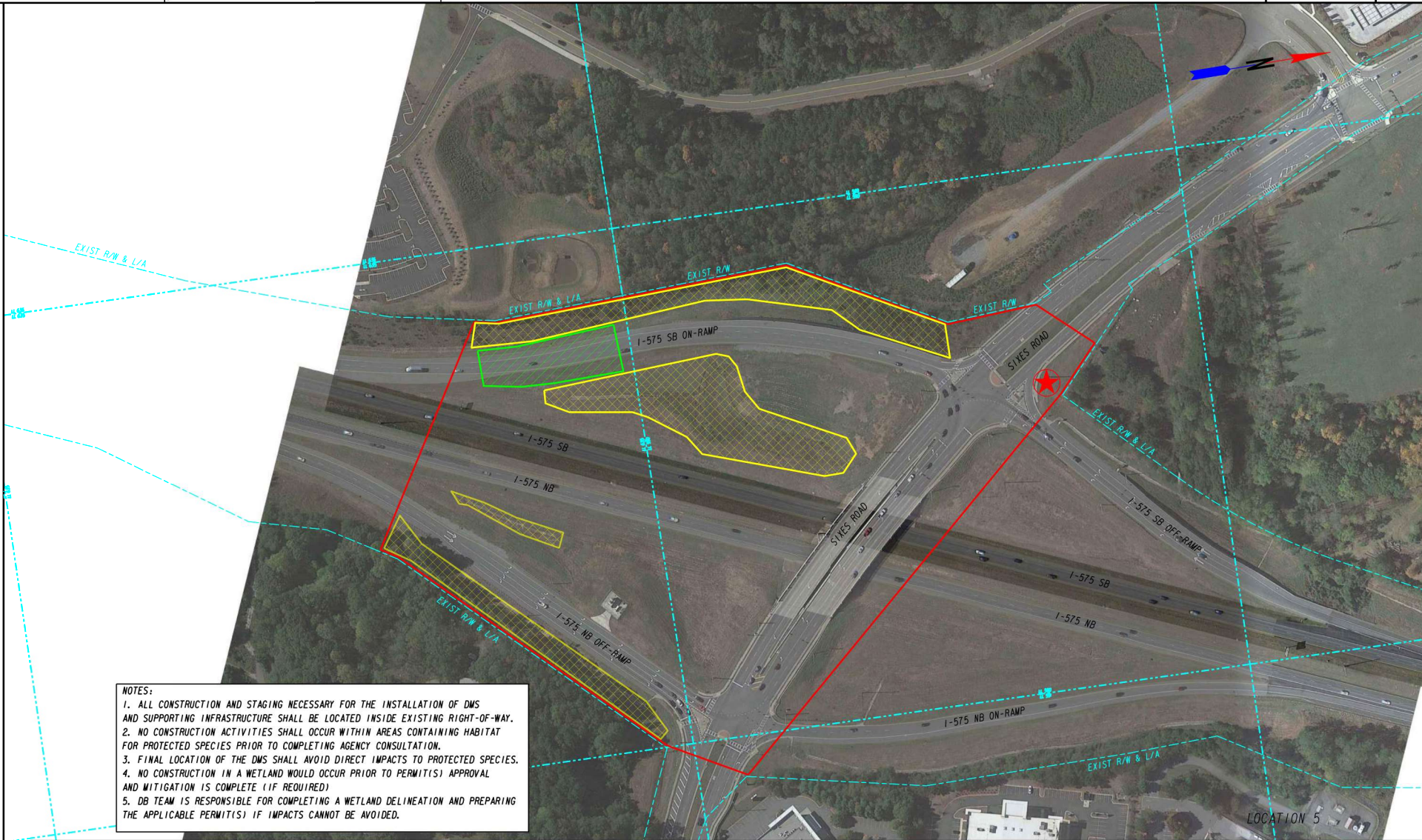
LEGEND

	ENVIRONMENTALLY SCREENED AREA
	DMS PREFERRED LOCATION
	UNDESIRABLE AREAS OF CONSTRUCTION
	POTENTIAL POWER SERVICE DISCONNECT LOCATION



REVISION DATES	

ITS PLANS ITS DMS DEPLOYMENT - PHASE 1 SR 3 / COBB PKWY NORTH		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	28-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NOTES:

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LEGEND	
	ENVIRONMENTALLY SCREENED AREA
	DMS PREFERRED LOCATION
	UNDESIRABLE AREAS OF CONSTRUCTION
	POTENTIAL POWER SERVICE DISCONNECT LOCATION

GDOT Georgia Department of Transportation

ARCADIS Design & Consultancy for natural and built assets

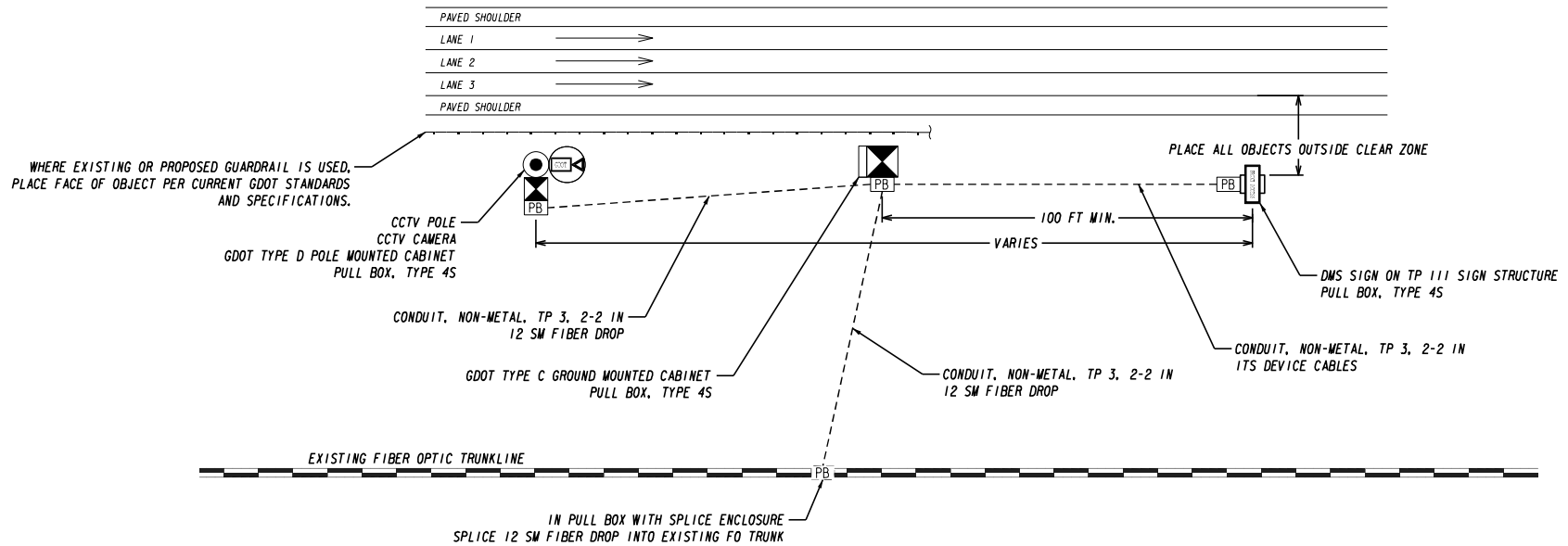


REVISION DATES	

ITS PLANS
ITS DMS DEPLOYMENT - PHASE 1
I-575 SB ON-RAMP FROM SIXES ROAD

CHECKED:	DATE:	DRAWING No.:
BACKCHECKED:	DATE:	28-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

GEORGIA DEPARTMENT OF TRANSPORTATION
STATEWIDE DYNAMIC MESSAGE SIGN DEPLOYMENT
TYPICAL INSTALLATION DETAIL #1



- NOTES:
1. MOUNT CCTV CAMERAS AND OTHER REQUIRED COMPONENTS ON NEW CONCRETE STRAIN POLES UNLESS INSTALLED ON EXISTING STRAIN POLES. WHERE THE CCTV CAMERA IS INSTALLED ON AN EXISTING STRAIN POLE, THE DB TEAM SHALL VERIFY EXISTING STRAIN POLE IS STRUCTURALLY SOUND AND CAN CARRY THE ADDITIONAL LOAD, INCLUDING CCTV CAMERA, POLE-MOUNTED CABINET, ETC.
 2. NEW CCTV CAMERAS SHALL BE INSTALLED UNLESS EXISTING CCTV CAMERAS MEETING THE MINIMUM SPECIFIED REQUIREMENTS. THE DB TEAM SHALL COORDINATE WITH EXISTING CCTV OWNER BEFORE ASSUMING JOINT USE OF AN EXISTING CCTV CAMERA.
 3. EACH DMS SIGN SHALL BE LEGIBLE USING A CCTV CAMERA. THE CCTV CAMERA SHALL BE ABLE TO VIEW THE ENTIRE FACE OF THE DMS SIGN. THE CCTV CAMERA VIEW SHALL NOT BE OBSTRUCTED BY BRIDGES, OVERHEAD SIGN STRUCTURES, VEGETATION, VERTICAL CURVES, ETC. THE DISTANCE FROM CCTV CAMERA TO DMS SIGN FACE SHALL MEET MANUFACTURER'S RECOMMENDATION. THE DB TEAM SHALL VERIFY THAT THE DMS MESSAGE CAN BE VIEWED BY THE NEW OR EXISTING CCTV.
 4. INSTALL 4G WIRELESS SYSTEMS IN EACH CCTV AND DMS DEVICE CABINETS WHERE EXISTING FIBER OPTIC CONNECTION TO THE GDOT TWC IS UNAVAILABLE.
 5. PLACE ALL OBJECTS OUTSIDE CLEAR ZONE. WHERE OBJECTS CANNOT BE PLACED OUTSIDE CLEAR ZONE, OBJECTS SHALL BE PROTECTED WITH GUARDRAIL IN ACCORDANCE WITH CURRENT GDOT STANDARDS AND SPECIFICATIONS.
 6. OBTAIN AND COORDINATE POWER SERVICE WITH UTILITY COMPANIES.

N. T. S.

REVISION DATES		ITS PLANS	
		ITS DMS DEPLOYMENT - PHASE 1	
		TYPICAL INSTALLATION DETAIL #1	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	28-0006	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Cost Estimate Budget Class Report

Report v1

Cost Estimate: 0017389 - Concept Report

Cost Estimation Phase: 2-DE

Cost Estimate Item Total: \$1,198,437.75

Cost Estimate Budget Class Report - Estimate Level Details

Budget Class	Amount	Assignment Level
	\$1,198,437.75	Cost Estimate

Cost Estimate Budget Class Report

Cost Estimate Budget Class Report - Item Level Details

Budget Class	Line Number	Item	Item Description	Quantity	Unit	Amount
	5	150-1000	TRAFFIC CONTROL -	1.000	LS	\$75,000.00
	10	163-0001	EROSION CONTROL, NON-REFUNDABLE DEDUCTIONS	1.000	LS	\$15,000.00
	15	210-0100	GRADING COMPLETE -	1.000	LS	\$50,000.00
	20	432-0305	MICRO MILL ASPH CONC PVMT, 1 1/4 IN DEPTH	6.000	SY	\$750.00
	25	441-6740	CONC CURB & GUTTER, 8 IN X 30 IN, TP 7	101.000	LF	\$2,617.68
	30	682-9950	DIRECTIONAL BORE -	1,050.000	LF	\$31,090.58
	35	631-2343	LED PIXEL CMS, NON-WALK-IN, 3 X 15, 18 IN, TYPE B	5.000	EA	\$425,000.00
	40	638-1003	STR SUPPORT FOR OVERHEAD SIGN, TP III, STA -	1.000	LS	\$38,039.56
	45	638-1003	STR SUPPORT FOR OVERHEAD SIGN, TP III, STA -	1.000	LS	\$38,039.56
	50	638-1003	STR SUPPORT FOR OVERHEAD SIGN, TP III, STA -	1.000	LS	\$38,039.56
	55	638-1003	STR SUPPORT FOR OVERHEAD SIGN, TP III, STA -	1.000	LS	\$38,039.56
	60	638-1003	STR SUPPORT FOR OVERHEAD SIGN, TP III, STA -	1.000	LS	\$38,039.56
	65	639-3004	STEEL STRAIN POLE, TP IV	1.000	EA	\$20,828.76
	70	639-4004	STRAIN POLE, TP IV	1.000	EA	\$9,063.43
	75	641-1200	GUARDRAIL, TP W	1,832.000	LF	\$35,826.87
	80	641-5001	GUARDRAIL ANCHORAGE, TP 1	10.000	EA	\$12,444.63
	85	641-5015	GUARDRAIL TERMINAL, TP 12A, 31 IN, TANGENT, ENERGY-ABSORBING	10.000	EA	\$29,564.09

Cost Estimate Budget Class Report

Cost Estimate Budget Class Report - Item Level Details

Budget Class	Line Number	Item	Item Description	Quantity	Unit	Amount
	90	647-1000	TRAFFIC SIGNAL INSTALLATION NO -	1.000	LS	\$2,500.00
	95	647-2141	PULL BOX, PB-4S	19.000	EA	\$21,610.59
	100	682-6233	CONDUIT, NONMETL, TP 3, 2 IN	3,800.000	LF	\$24,705.24
	105	700-6910	PERMANENT GRASSING	5.000	AC	\$11,374.22
	110	926-2104	WIRELESS SYSTEM, TYPE 4	4.000	EACH	\$4,000.00
	115	935-1512	OUTSIDE PLANT FIBER OPTIC CABLE, DROP, SINGLE MODE, 12 FIBER	1,300.000	LF	\$2,877.41
	120	935-3108	FIBER OPTIC CLOSURE, UNDERGROUND, 144 FIBER	4.000	EA	\$3,140.00
	125	935-3402	FIBER OPTIC CLOSURE, FDC (RACK MOUNTED), 12 FIBER	4.000	EA	\$2,511.21
	130	935-4010	FIBER OPTIC SPLICE, FUSION	48.000	EA	\$2,114.75
	135	935-5050	FIBER OPTIC PATCH CORD, SM	16.000	EA	\$1,116.00
	140	936-1010	CCTV SYSTEM, TYPE H	5.000	EA	\$30,145.80
	145	936-4901	CCTV MOUNTING ARM, TYPE 1	5.000	EA	\$1,375.00
	150	939-2301	FIELD SWITCH, TYPE B	4.000	EA	\$8,184.00
	155	939-4030	TYPE C CABINET	5.000	EA	\$32,500.00
	160	939-4040	TYPE D CABINET	3.000	EA	\$12,050.71
	165	682-6230	CONDUIT, NONMETL, TP 3, 1 IN	5,250.000	LF	\$19,425.00
	170	682-8525	ELECTRICAL POWER SERVICE ASSEMBLY (UNDERGROUND SERVICE POINT)	5.000	EA	\$38,282.75
	175	682-1304	CABLE, TP THW, AWG NO 10	21,000.000	LF	\$14,280.00
	180	682-8995	POWER SERVICE CABINET	12.000	EA	\$60,000.00

Cost Estimate Budget Class Report

Report v1

Cost Estimate Budget Class Report - Item Level Details

Budget Class	Line Number	Item	Item Description	Quantity	Unit	Amount
	185	682-9020	ELECTRICAL JUNCTION BOX	11.000	EA	\$8,861.23

Interoffice Memo

FILE

PI NUMBER	0017389	PROJECT DESCRIPTION	ITS DMS DEPLOYMENT - PHASE 1: Deployment of traveler information DMS sites at essential interchanges statewide.
OFFICE	Innovative Delivery		
DATE	Tuesday, September 22, 2020		

From: Darryl VanMeter, State Innovative Delivery Administrator

To: Erik Rohde, P.E., State Project Review Engineer
via email Mailbox: CostEstimatesandUpdates@dot.ga.gov

Subject: REVISIONS TO PROGRAMMED COSTS

Project Manager: Anthony Tate

Management Let Date:

Management Right of Way Date:

Cost Estimate Review Iteration

Date of Submittal #1	
Date of Submittal #2	
Date of Submittal #3	

Summary of Programmed Costs and Proposed Revised Costs:

Estimate Type	Cost Estimate Amounts (T-Pro Without Inflation)	Last Estimate Date	Revised Cost Estimate
CONSTRUCTION	\$1,200,000.00		\$1,447,113.58
RIGHT OF WAY			
UTILITIES			

Explanation for Cost Change and Contingency Justification:


Concept development

Attachments:

Cost Estimate Budge Class Report
Utility Cost Estimates
Preconstruction Status Report

Interoffice Memo

Design Phase Leader Validation of Final QC/QA for Construction Cost Estimate Used In This Revision to Programmed Costs:

Consultant Company or GDOT Design Office:	Arcadis U.S. Inc.,
Printed Name:	Janet Middleton
Title:	Roadway Design Lead
Signature:	
Date:	9/22/2020

FOR PROJECTS WITH A LOCAL SPONSOR	
If the project has a local sponsor, the project manager should ensure that the local authority completes the following validation indicating that it has reviewed the construction cost estimate and whether it is in concurrence with the construction costs presented.	
Please select the appropriate validation below upon review of the cost estimate:	
<input type="checkbox"/> I acknowledge that I have reviewed the project construction cost estimate and <u>concur</u> with the costs presented.	
<input type="checkbox"/> I acknowledge that I have reviewed the project construction cost estimate but <u>do not concur</u> with the costs presented.	
Please provide an explanation for non-concurrence.	
Local Authority Name and Title:	
Local Authority Signature:	
Date:	



FILE

Project No: **N/A**
 County: **Chatham**
 P.I.#: **0017389**

Jesup
8/21/2020

Description: **STATEWIDE ITS DYNAMIC MESSAGE SIGN (DMS) DEPLOYMENT-PH1-SR 2**

FROM Dallory Rozier, District Utilities Manager

TO Anthony Tate, Project Manager

SUBJECT CONCEPT UTILITY COST ESTIMATE **District 5 Only**

A review of utilities located on the above referenced project has been conducted without a design concept. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>	<u>Reimbursable</u>	<u>Non-Reimbursable</u>	<u>Estimate Based on</u>
Georgia Power-Distribution	\$0.00	\$0.00	Site Visit / Available Drawings
Comcast Communion	\$0.00	\$0.00	Site Visit / Available Drawings
City of Port Wentworth Water	\$0.00	\$0.00	Site Visit / Available Drawings
City of Port Wentworth Sewer	\$0.00	\$0.00	Site Visit / Available Drawings
Bellsouth Telephone/AT&T	\$0.00	\$0.00	Site Visit / Available Drawings
Georgia Power-Transmission	\$0.00	\$0.00	Site Visit / Available Drawings
	\$0.00	\$0.00	Site Visit / Available Drawings
	\$0.00	\$0.00	Site Visit / Available Drawings
	\$0.00	\$0.00	Site Visit / Available Drawings
	\$0.00	\$0.00	Site Visit / Available Drawings
Total 100.00%	\$0.00	\$0.00	
Department Responsibility 100.00%	\$0.00		
Local Sponsor Responsibility 0.00%	\$0.00		PFA Dated N/A with N/A

** Indicates Potential Utility Aid Request from Local Gov't

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Dallory Rozier at 912-530-4407 or George Shenk at 912-530-4408.

- cc: Patrick Allen, PE, State Utilities Administrator
- Marcela Coll, State Utilities Preconstruction Manager
- Danah A. Bonny, State Preconstruction Specialist
- David Woodcox, State Preconstruction Specialist
- Troy Pittman, PE, District Preconstruction Manager
- Randy Rhodes, PE, Area Manager

MS4 Concept Report Summary

Attach the following checklist information to the Concept Report Template:

Is there a Project Level Exclusion that applies to this project: No Yes

If yes, please indicate which of the following exclusions apply:

- Roadways that are not owned or operated (maintained) by GDOT may not require post-construction BMPs. Coordinate with the appropriate local government or entity to determine stormwater management requirements.
 - The project location is not within a designated MS4 area.
 - Maintenance and safety improvement projects whereby the sites are not connected and disturbs less than one acre at each individual site. This includes projects such as repaving, shoulder building, fiber optic line installation, sign addition, and sound barrier installation.
 - Projects that have their environmental documents approved or right-of-way plans submitted for approval on or before June 30th, 2012.
 - Road projects that disturb less than 1 acre or for site development projects that add less than 5,000 ft² of impervious area.
-