

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0009448

OFFICE Design Policy & Support

GDOT District 6 - Cartersville

Haralson County

DATE October 31, 2011

Safe Routes to School - H. A. Jones Elementary

FROM  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:

Genetha Rice-Singleton, Program Control Administrator
Bobby Hilliard, State Program Delivery Engineer
Cindy VanDyke, State Transportation Planning Administrator
Angela Robinson, Financial Management Administrator
Glenn Bowman, State Environmental Administrator
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Ron Wishon, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Kent Sager, District Engineer
DeWayne Comer, District Preconstruction Engineer
Kerry Bonner, District Utilities Engineer
Derrick Cameron, Project Manager
BOARD MEMBER - 11th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

SAFE ROUTES TO SCHOOL

County: Haralson
P. I. Number: 0009448
Federal Route Number: N/A
State Route Number: N/A

H. A. Jones Elementary School - SRTS

Submitted for approval: (Submit to "Concept Reports" in Outlook)

DATE 9/29/2011

Sean Johnston, Kimley-Horn and Associates, Inc.
Design Consultant Name and Firm Name

DATE 25 OCT 2011

[Signature]
Project Manager

Approvals:

Concur: Bobby Hilliard Date: 10/25/2011
State Program Delivery Engineer

Approve: Cliff R. M. M. M. Date: 10/30/11
Director of Engineering

Need and Purpose:

This project is a Safe Routes to School (SRTS) infrastructure project that will improve pedestrian and bicycling accessibility for students within a two-mile radius of H. A. Jones Elementary School in Haralson County. The school is located on Lakeview Drive at the intersection with Bush Street.

The SRTS infrastructure program administered by the Federal Highway Administration is intended to promote walking and bicycling by students living within a two-mile radius of a school. The desired outcomes of the SRTS infrastructure program include increased health and fitness for students, as well as accessibility and environmental benefits for the community at large.

The City of Bremen has identified a need to improve the walking and bicycling network in the vicinity of the school. This project will improve pedestrian accessibility along Lakeview Drive, US 27/SR 1 Business/Gordon Street/Hamilton Avenue, Bryan Street and Fern Street through replacement of existing damaged sidewalk and installation of new Americans with Disabilities Act (ADA) – compliant sidewalks and improved crosswalks with ADA-compliant curb ramps at intersections. Bicycle accessibility for school children will also be improved, as Georgia code states that local jurisdictions may allow operation of bicycles on sidewalks by persons less than 12 years of age through local ordinance.

Description of the proposed project:

This project consists of sidewalk improvements in the vicinity of H. A. Jones Elementary School in Haralson County, Georgia. Along Lakeview Drive, sidewalk on the school property will be widened to 5 feet from the intersection with Bush Street to the school entrance. Along Lakeview Drive from Bush Street to Gordon Street, existing sections of damaged sidewalk will be replaced with new ADA-compliant sidewalk and 5-foot by 5-foot passing areas will be provided every 200 feet. New curb ramps and crosswalks will be installed at the intersections of Lakeview Drive at Bush Street, Bush Street at Church Street, US 27/SR 1 Business/Gordon Street at McPherson Street, Georgia Avenue at Bryan Street, the Haralson County public safety complex driveway at Fern Street, and Tallapoosa Street at Fern Street. Existing sections of damaged sidewalk will be replaced and 5-foot by 5-foot passing areas will be provided along both sides of Gordon Street/Hamilton Avenue from Lakeview Drive south to Jackson Street. New sidewalk with variable width grass strips will be installed on the south side of Bryan Street from Hamilton Avenue to Fern Street. New sidewalk with variable width grass strip will be installed on the west side of Fern Street from Bryan Street to Tallapoosa Street, and will tie to new sidewalks constructed by the adjacent SR 8/US 78 at Fern Street intersection improvement project.

See attachment #2 for project concept typical intersection improvement layout.

Is the project located in a PM 2.5 Non-attainment area? ___Yes ___**X**___ No

Is this project located in an Ozone Non-attainment area? ___Yes ___**X**___ No

PDP Classification: Major (), Minor (**X**)

Federal Oversight: Full Oversight (), Exempt(**X**), State Funded(), or Other ()

Functional Classification:

Lakeview Drive: Rural Local Road

Gordon Street/Hamilton Avenue: Rural Major Collector

Bryan Street: Rural Local Road

Georgia Avenue: Rural Local Road

Fern Street: Rural Local Road

U. S. Route Number(s): US 27 Business (Gordon Street/Hamilton Avenue)

State Route Number(s): SR Business 1 (Gordon Street/Hamilton Avenue)

Traffic (ADT): 6,860 (2009; US 27 Business/SR 1 Business)

Existing design features:

- Existing Typical Section:
 - Lakeview Drive (H.A. Jones Elementary School to Gordon Street): One variable width (11' to 12') travel lane in each direction, rural shoulders with ditches, variable width grassed strip, 4' sidewalk on the south side
 - Lakeview Drive (in front of H.A. Jones Elementary School): One variable width (11' to 12') travel lane in each direction, rural shoulder with a ditch on the east side, header curb with a 4' sidewalk on the west side
 - US 27/SR 1 Business/Gordon Street (north of McPherson Street): One variable width (11' to 12') travel lane in each direction, variable width grassed shoulder with ditches, 4' sidewalk in each direction.
 - US 27/SR 1 Business/Hamilton Avenue (south of McPherson Street): One variable width (11' to 12') travel lane in each direction, variable width (11' to 12') two-way left-turn lane, urban shoulders with variable width grassed strip, 4' sidewalk in each direction.
 - Bryan Street:
 - Hamilton Avenue to Georgia Avenue - One variable width (11' to 12') in each direction, rural shoulders with ditches
 - Georgia Avenue to Fern Street - One variable width (11' to 12') in each direction, rural shoulders with curb and gutter
 - Fern Street: One variable width (11' to 12') travel lane in each direction, rural shoulders

- Posted Speed
 - Lakeview Drive: 35 mph
 - Gordon Street: 35 mph
 - Bryan Street: 35 mph (Not Posted)
 - Fern Street: 35 mph (Not Posted)
- Width of Right of Way

In order to be eligible for Safe Routes to School funding, the local government has demonstrated that adequate existing right-of-way is available to construct the proposed project.

 - Lakeview Drive: 50' (approximate)
 - Gordon Street: 65' (approximate)
 - Bryan Street: varies 50'-60' (approximate)
 - Fern Street: 50' (approximate)
- Major structures: None
- Major interchanges or intersections along project
 - Major Intersections:
 - Lakeview Drive at US 27/SR 1 Business/Gordon Street
 - McPherson Street at US 27/SR 1 Business/Gordon Street
 - US 27/SR 1 Business/Hamilton Avenue at Bryan Street
 - Fern Street at US 78/SR 8/Pacific Avenue
- Existing Length of Roadway Segments
 - Lakeview Drive: 0.23 mi
 - US 27/SR 1 Business/Gordon Street/Hamilton Ave: 0.43 mi
 - Bryan Street: 0.31 mi
 - Fern Street: 0.16 mi

Proposed Design Features:

- Proposed Typical Section:
 - Lakeview Drive (H.A. Jones Elementary School to Gordon Street): One variable width (11' to 12') travel lane in each direction, rural shoulders with ditches, variable width grassed strip, 4' sidewalk with 5' x 5' passing areas at 200' spacing on the south side;
 - Lakeview Drive (in front of H.A. Jones Elementary School): One variable width (11' to 12') travel lane in each direction, rural shoulder with a ditch on the east side, header curb with a 5' sidewalk on the west side
 - US 27/SR 1 Business/Gordon Street: One variable width (11' to 12') travel lane in each direction, variable width grassed shoulder with ditches, 4' minimum sidewalk with 5' x 5' passing areas at 200' spacing in each direction.
 - US 27/SR 1 Business/Hamilton Avenue: One variable width (11' to 12') travel lane in each direction, variable width (11' to 12') two-way left-turn lane, urban shoulders with variable width grassed strip, 4' minimum sidewalk with 5' x 5' passing areas at 200' spacing in each direction.

- o Bryan Street:
 - Hamilton Avenue to Georgia Avenue - One variable width (11' to 12') travel lane in each direction, urban shoulder with curb and gutter, 5' minimum grassed strip and 5' sidewalk on the south side;
 - Georgia Avenue to Fern Street - One variable width (11' to 12') travel lane in each direction, urban shoulder with curb and gutter, 2' grassed strip and 5' sidewalk on the south side
- o Fern Street: One variable width (11' to 12') travel lane in each direction, urban shoulder with header curb, variable width (0'-0" to 2'-0") grassed strip, and 5' sidewalks on the southbound side
- Proposed Design Speed:
 - o Lakeview Drive: 35 mph
 - o Gordon Street: 35 mph
 - o Bryan Street: 35 mph
 - o Fern Street: 35 mph
- Proposed Maximum Sidewalk Cross Slope: 2%
- Proposed Sidewalk Width: 5' typical, 4' minimum
- Proposed Minimum Crosswalk Width: 8 feet
- Right of way
 - o Easements: Temporary (), Permanent (), Utility (), Other ().
 - o Type of access control: NA
 - o Number of parcels: 0
 - o Number of displacements:
 - o Business: None
 - o Residences: None
 - o Mobile homes: None
 - o Other: None
- Structures: N/A
- Major intersections along the project:
 - Lakeview Drive at US 27/SR 1 Business/Gordon Street
 - McPherson Street at US 27/SR 1 Business/Gordon Street
 - US 27/SR 1 Business/Hamilton Avenue at Bryan Street
 - Fern Street at US 78/SR 8/Pacific Avenue
- Traffic control during construction: Minimal impact lane closures are anticipated along Lakeview Drive, Gordon Street, Hamilton Avenue, Bryan Street, Georgia Avenue and Fern Street during crosswalk striping installation.

- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	()	()	(X)
ROADWAY WIDTH:	()	()	(X)
SHOULDER WIDTH:	()	()	(X)
VERTICAL GRADES:	()	()	(X)
CROSS SLOPES:	()	()	(X)
STOPPING SIGHT DISTANCE:	()	()	(X)
SUPERELEVATION RATES:	()	()	(X)
HORIZONTAL CLEARANCE:	()	()	(X)
SPEED DESIGN:	()	()	(X)
VERTICAL CLEARANCE:	()	()	(X)
BRIDGE WIDTH:	()	()	(X)
BRIDGE STRUCTURAL CAPACITY:	()	()	(X)
LATERAL OFFSET TO OBSTRUCTION	()	()	(X)

- Design Variances: None Anticipated

- Environmental concerns:

- o Several properties 50 years or older are located within the project limits.
- o Endangered species that may occur in the project area include the Lined Chub, Tallapoosa Shiner and Tallapoosa Darter
- o Four Underground Storage Tanks (USTs) and one dry cleaner are located in the project area
- o One ephemeral stream is located within the project limits.

- Level of environmental analysis:

- o Are Time Savings Procedures appropriate? Yes (X), No (),
- o Categorical exclusion: Anticipated
- o Environmental Assessment/Finding of No Significant Impact(FONSI): ()
- o Environmental Impact Statement (EIS) ().

- Utility involvements:

- o Utility facilities located within the project limits include:
 - Gas (Atlanta Gas Light)
 - Power (Georgia Power)
 - Water (Haralson County)
 - Telecommunications (AT&T, Comcast, Verizon)

VE Study Required: Yes () No (X)

Benefit/Cost Ratio: N/A .

Project Cost Estimate and Funding Responsibilities:

	PE	ROW	UTILITY	CST	MITIGATION
By Whom	GDOT	N/A	N/A	GDOT	N/A
\$ Amount	\$55,000.00	N/A	N/A	\$439,148.90	N/A

**CST Cost includes: Construction and Engineering and Inspection*

Project responsibilities:

- Design: Consultant/GDOT
- Right of Way Acquisition: N/A
- Right of Way funding (real property): N/A
- Relocation of Utilities: GDOT/Utility Owners
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Construction Contractor
- Providing detours: N/A
- Environmental Studies/Documents/Permits: Consultant/GDOT
- Environmental Mitigations: GDOT

Coordination

- Concept Meeting date and brief summary: 05/05/2011 - Minutes Attached
- P. A. R. meetings, dates and results: None Required
- FEMA, USCG, and/or TVA: N/A
- Public involvement: N/A
- Local government comments: N/A
- Other projects in the area:
 - Signal Upgrades along SR 100 at Various Locations
GDOT Project No. CSSTP-0007-00(372); PI No. 0007372
 - Intersection upgrades on SR 8/US78 at Georgia Avenue and Fern Street
GDOT Project No. STP00-2812-00(009); PI No. 631175
- Other coordination to date: N/A

Scheduling – Responsible Parties’ Estimate

- | | | |
|-----------------------------------------------------------------|-------------|-----------|
| • Time to complete the environmental process: | Begin: 5/11 | End: 4/12 |
| • Time to complete preliminary construction plans: | Begin: 8/11 | End: 1/12 |
| • Time to complete right-of-way plans: | Begin: n/a | End: n/a |
| • Time to complete the Section 404 Permit: | Begin: n/a | End: n/a |
| • Time to complete final construction plans: | Begin: 1/12 | End: 4/12 |
| • Time to complete the purchase of right-of-way: | Begin: n/a | End: n/a |
| • List other major items that will affect the project schedule: | Begin: n/a | End: n/a |

Alternates considered: (1) Install new sidewalk and header curb along Lakeview Drive on the school property from the intersection with Bush Street to the school entrance. Along Lakeview Drive from Bush Street to US 27/SR 1 Business/Gordon Street, replace areas of existing damaged sidewalk and install 5-foot by 5-foot passing areas every 200 feet. Install new curb ramps and crosswalks at intersections of Lakeview Drive at Bush Street, Bush Street at Church Street, Gordon Street at McPherson Street, Georgia Avenue at Bryan Street, Tallapoosa Street at Fern Street, and Private Access at Fern Street. Improve existing sidewalk along US 27/SR 1 Business/Gordon Street/Hamilton Avenue from Lakeview Drive south to Jackson Street. Install new sidewalk on the south side of Bryan Street from Hamilton Avenue to Fern Street and the west side of Fern Street from Bryan Street to Tallapoosa Street.

(2) Install sidewalk improvements described in Alternate 1 with the addition of sidewalk on the south side of Bryan Street from Fern Street to US 78/SR 8/Pacific Avenue, Waddell Street from Gordon Street to Price Street, and Tallapoosa Street from Hamilton Avenue to Sewell Road.

(3) No Build.

Comments:

Comparison Summary of Alternates 1-3

Alternate (1) is recommended for this concept.

Alternate (2) is not recommended for this concept. Additional sidewalk along Bryan Street would require a railroad underpass to be widened, which is not feasible given the amount of available Safe Routes to School funding. Also, the right-of-way along Waddell Street does not appear to allow for appropriate sidewalk width. The sidewalk along Tallapoosa Street does not provide a direct connection to the school property as stated in the need and purpose.

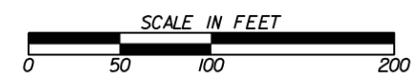
Alternate (3) is not recommended for this concept. The no-build alternate would not promote safe walking and bicycling for children attending H. A. Jones Elementary School as stated in the project need and purpose.

Attachments:

1. Construction Cost Estimate
2. Concept Layout
3. Concept Typical Sections
4. Concept Team Meeting Minutes (05/05/2011)



Kimley-Horn and Associates, Inc.
 Engineering, Planning, and Environmental Consultants
 817 W. Peachtree Street NW, Suite 601
 Atlanta, GA 30308



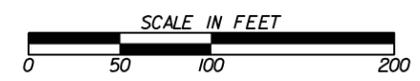
REVISION DATES	

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
CONCEPT LAYOUT
H. A. JONES ELEMETARY SCHOOL - SRTS
 PI NO. 0009448

DRAWING No.	01
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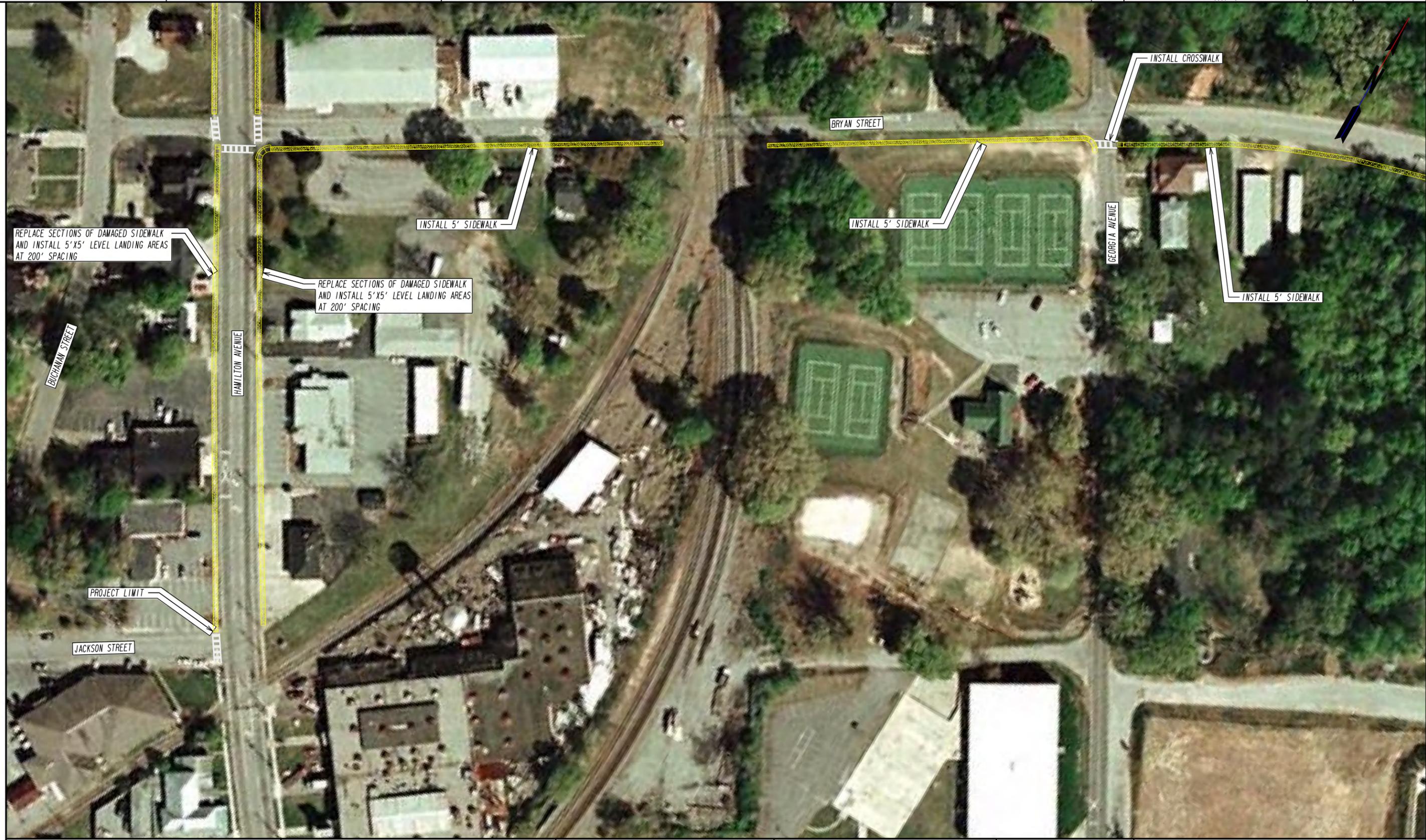
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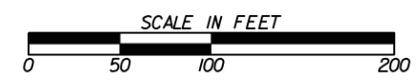
REVISION DATES	

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
CONCEPT LAYOUT
H. A. JONES ELEMETARY SCHOOL - SRTS
 PI NO. 0009448

DRAWING No.	02
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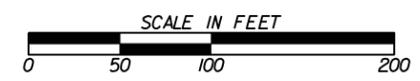
REVISION DATES

STATE OF GEORGIA
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CONCEPT LAYOUT
H. A. JONES ELEMENTARY SCHOOL - SRTS
 PI NO. 0009448

DRAWING No.
03



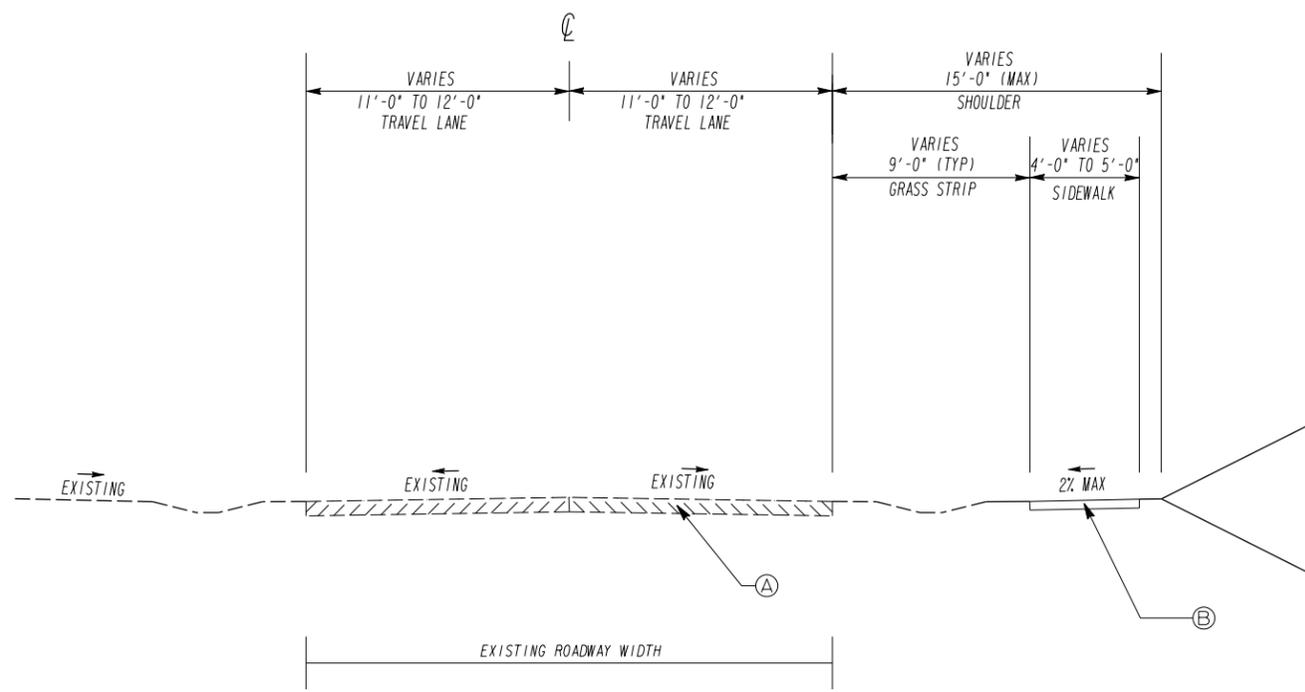
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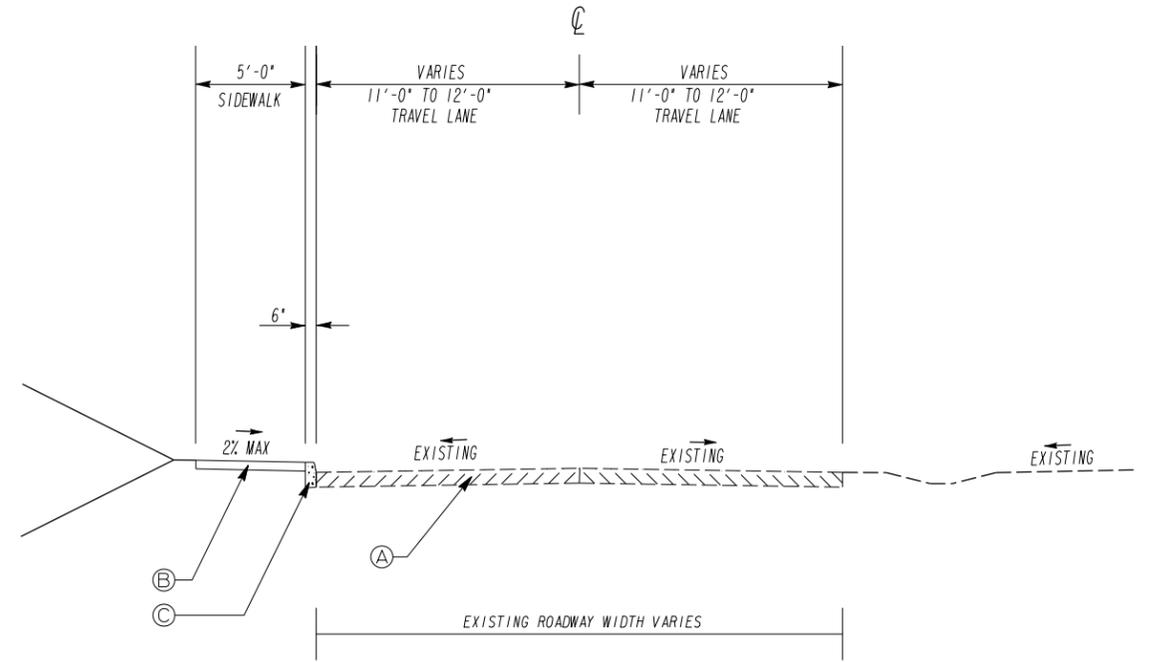
REVISION DATES	

STATE OF GEORGIA
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H. A. JONES ELEMENTARY SCHOOL - SRTS
 PI NO. 0009448

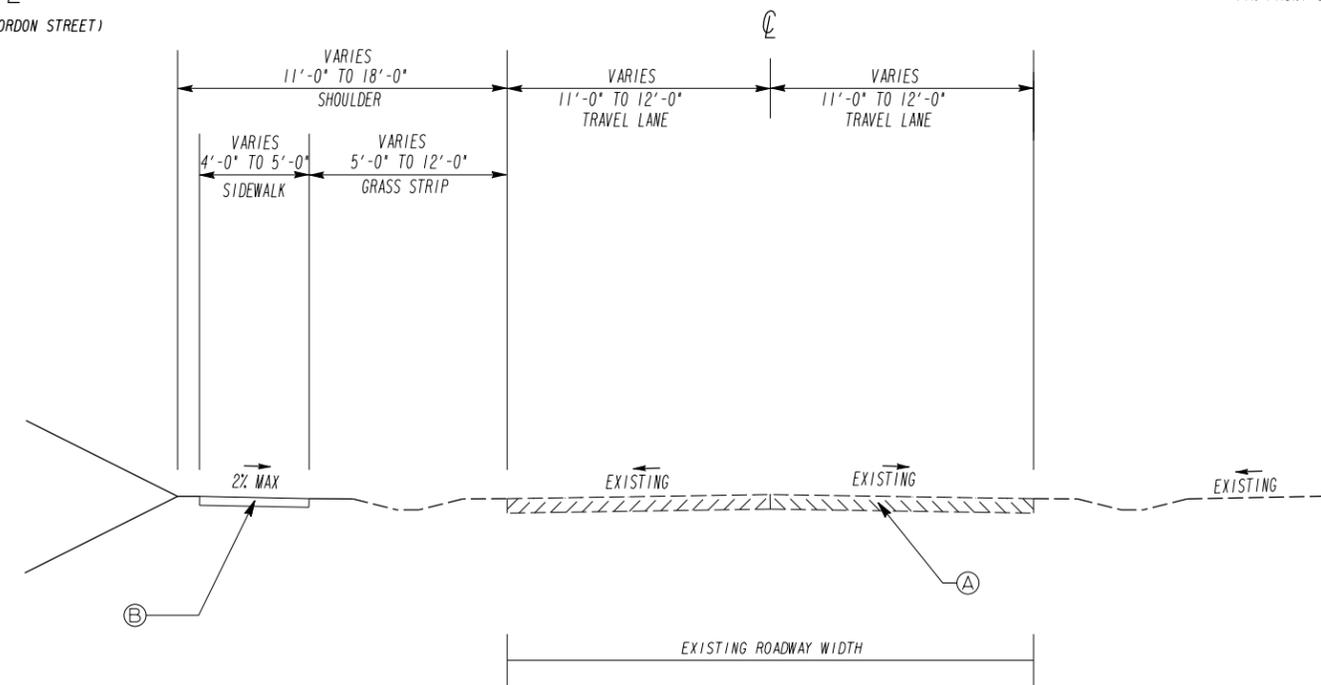
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TS-1
LAKVIEW DRIVE
 (HA JONES ELEMENTARY SCHOOL TO GORDON STREET)



TS-2
LAKEVIEW DRIVE
 (IN FRONT OF HA JONES ELEMENTARY SCHOOL)



TS-3
US 27/SR 1 BUSINESS/GORDON STREET
 (NORTH OF MCPHERSON STREET)

REQUIRED PAVEMENT

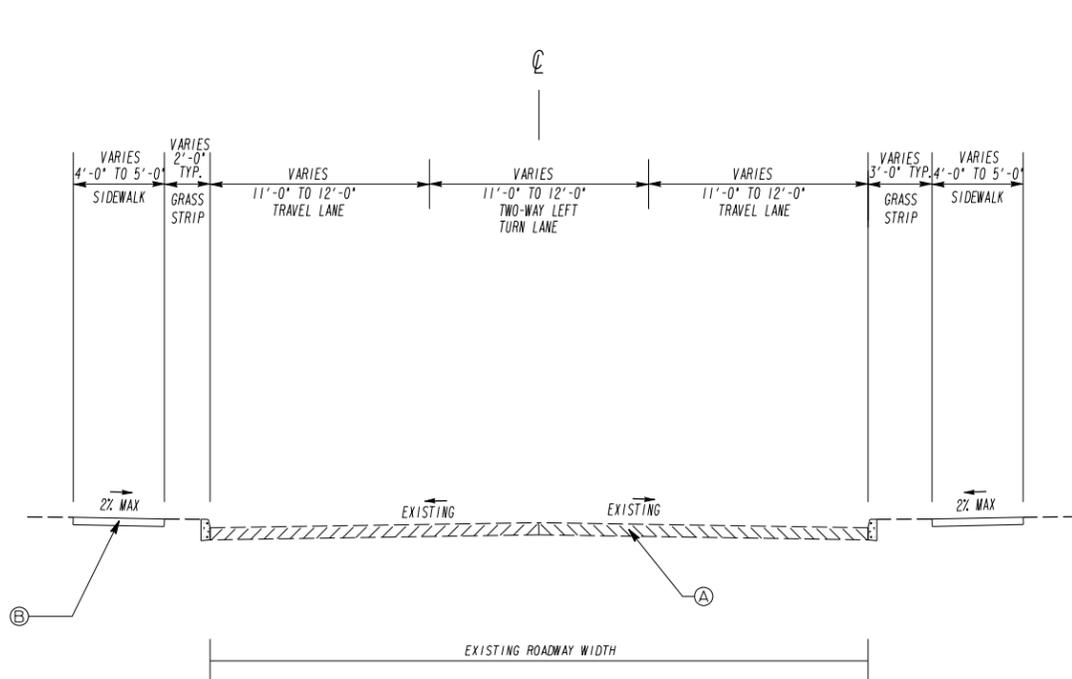
- (A) EXISTING PAVEMENT, TO BE RETAINED
- (B) CONC SIDEWALK, 4 IN.
- (C) CONCRETE HEADER CURB, 6 IN, TYPE 2
- (D) CONC CURB & GUTTER, 8 IN X 30 IN, TP 2

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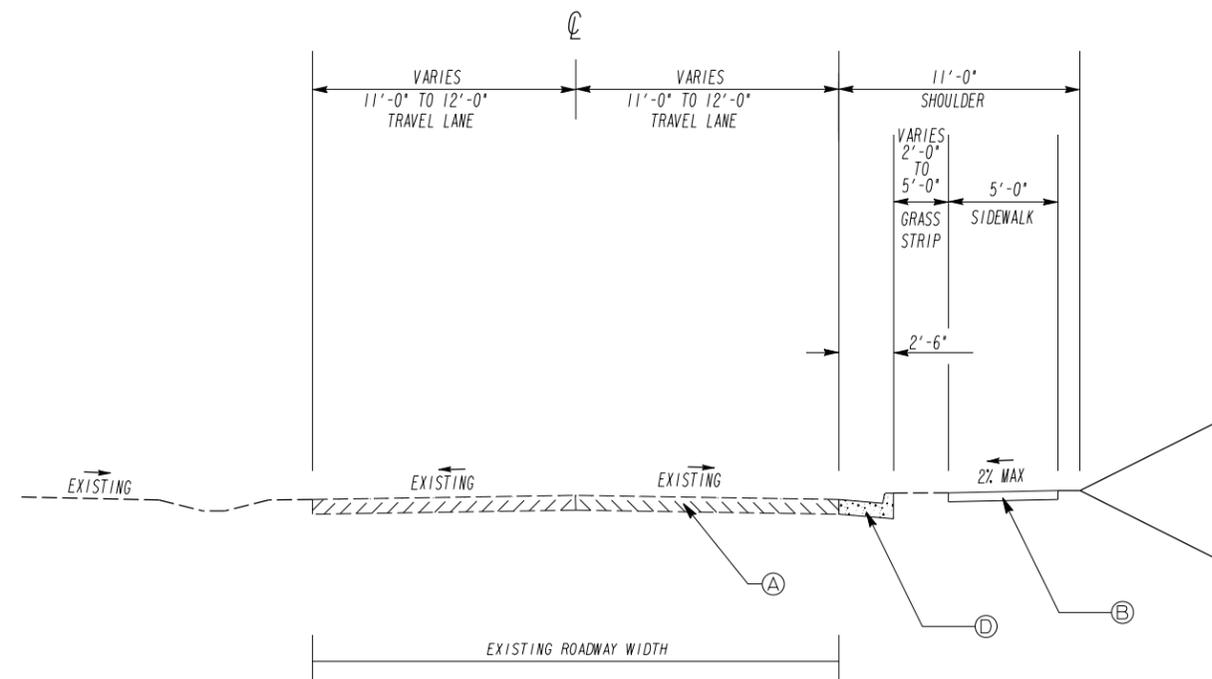
NOT TO SCALE

REVISION DATES

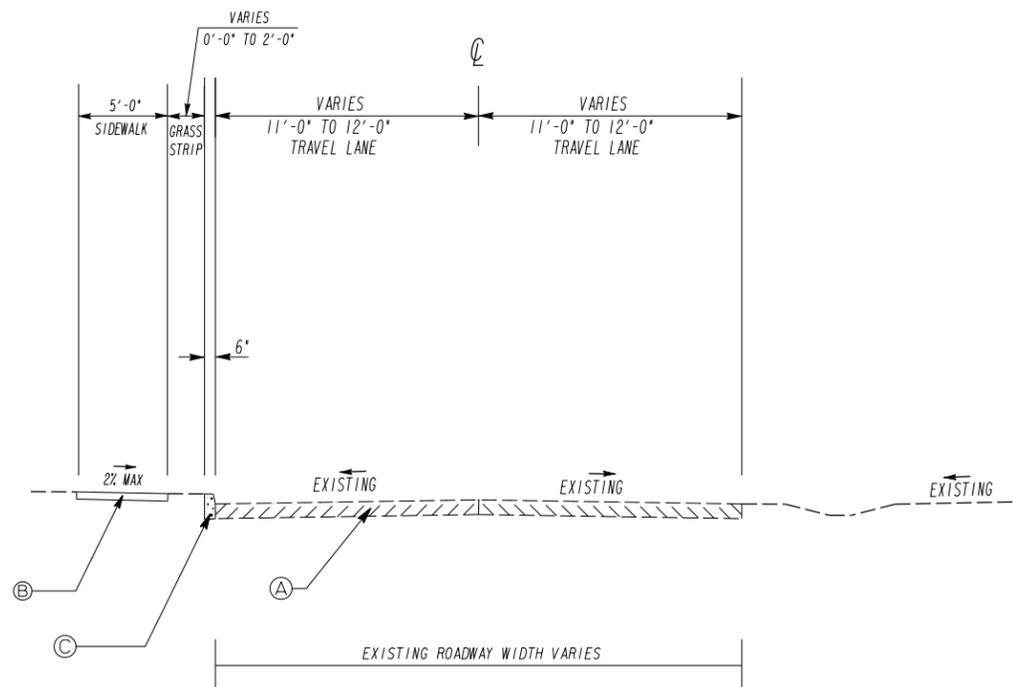
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
TYPICAL SECTIONS
H. A. JONES ELEMENTARY SCHOOL - SRTS
 PI NO. 0009448



TS-4
 US 27/SR 1 BUSINESS/HAMILTON AVENUE
 (SOUTH OF MCPHERSON STREET)



TS-5
 BRYAN STREET



TS-6
 FERN STREET

REQUIRED PAVEMENT

- (A) EXISTING PAVEMENT, TO BE RETAINED
- (B) CONC SIDEWALK, 4 IN.
- (C) CONCRETE HEADER CURB, 6 IN, TYPE 2
- (D) CONC CURB & GUTTER, 8 IN X 30 IN, TP 2



NOT TO SCALE

REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY

TYPICAL SECTIONS
 H. A. JONES ELEMENTARY SCHOOL - SRTS
 PI NO. 0009448

BREMEN SRTS CONCEPT MEETING MINUTES

Date: May 5, 2011
Project: Safe Routes to School Infrastructure Projects
County: Haralson
Subject: Concept Team Meeting

Attendees:

Emmanuella Myrthil	Georgia Department of Transportation (GDOT)
Sharon Sewell	City of Bremen
Perry Hicks	City of Bremen
Steve Muse	City of Bremen
David Hicks	Bremen City Schools
Blane Cochran	Bremen Police Department
Alicia Hatcher	GDOT Safe Routes to School Resource Center
Stuart Day	Kimley-Horn and Associates (KHA)
Sean Johnston	KHA

This Safe Routes to School concept team meeting was held on Thursday, May 5, 2011 at Bremen City Hall and in the vicinity of Jones Elementary School in Bremen, Georgia to discuss the sponsor's application and concepts for proposed infrastructure improvements in the vicinity of the school. The proposed project consists of sidewalk and intersection modifications to improve conditions for children walking and bicycling to school.

The meeting began with a group discussion at City Hall, which included the following key items:

- KHA gave an overview of plan development process milestones, which include concept development (i.e. 30% design), environmental documentation, construction drawing preparation (including a Final Field Plan Review at 90% design), and letting to construction. It is GDOT and KHA's goal to complete this process within two years, with six to nine months expected for construction. This is an expedited timeframe for a process that could normally take three to six years.
- KHA explained the requirement of constructing the entire project within existing right-of-way, and also gave an explanation of historic boundaries that could impact the project scope.
- KHA gave an overview of the design team's understanding of the project. Input was given from the City of Bremen to develop the scope of the project. The scope entails reconstructing sidewalks along the west and south sides Lakeview Drive from Jones Elementary School to Gordon Street. A crossing will be provided at the intersection of Lakeview Drive and Church Street. Sidewalks will also be constructed along one side of Gordon Street from Lakeview Drive to Bryan Street. If the traffic volumes meet necessary warrants, a traffic signal will be installed at the intersection of Gordon Street and McPherson Street. Sidewalks will be constructed along the south side of Bryan Street from Business 27 to Fern Street. Sidewalks will be constructed along the west side of Georgia Avenue from Bryan Street to the Soccer Complex. Sidewalks will also be constructed along the west side of Fern Street from Bryan Street to Tallapoosa Street.

- The City of Bremen discussed other proposed projects in the area including a sidewalk and railroad project for Florida Avenue; a performing arts building that will front Florida Avenue and Georgia Avenue; and a future library expansion on Business 27.
- If additional construction funds remain, the City of Bremen would also like the design team to consider sidewalks along Waddell Street and Tallapoosa Street.
- School drop-off/pick-up times were discussed for the purposes of traffic data collection.

The group then performed a site walk along the proposed project limits. Multiple options for improvements within the project limits were discussed. This discussion resulted in the following recommendations:

- Storm drainage upgrades will be required at various locations. Specific locations will be determined during the plan development process.
- Existing turning movement and one-way restrictions were noted and will remain.
- A crosswalk will be installed on the east side of the Church Street and Bush Street intersection.
- Along Lakeview Drive, from the turn in the road to the school entrance, the sidewalk will be widened to five-feet and a header curb will be installed.
- Handrail will be needed along portions of sidewalk where side slopes do not meet ADA standards.
- Sidewalks along Bryan Street will end at either side of the railroad right-of-way.

These minutes contain the understanding of KHA representatives regarding discussions, decisions, action items, etc. at the meeting.