

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0010009

OFFICE Design Policy & Support

GDOT District 7 - Metro Atlanta
Cobb County
Bob Callan Trunk Trail – Phase II

DATE April 27, 2012

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:

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
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Lisa Myers, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Bryant Poole, District Engineer
Scott Lee, District Preconstruction Engineer
Jonathan Walker, District Utilities Engineer
Jeremy Busby, Project Manager
BOARD MEMBER - 6th Congressional District
BOARD MEMBER - 11th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: N/A
County: Cobb
P. I. Number: 0010009
Federal Route Number: N/A
State Route Number: N/A

Bob Callan Trunk Trail - Phase II

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

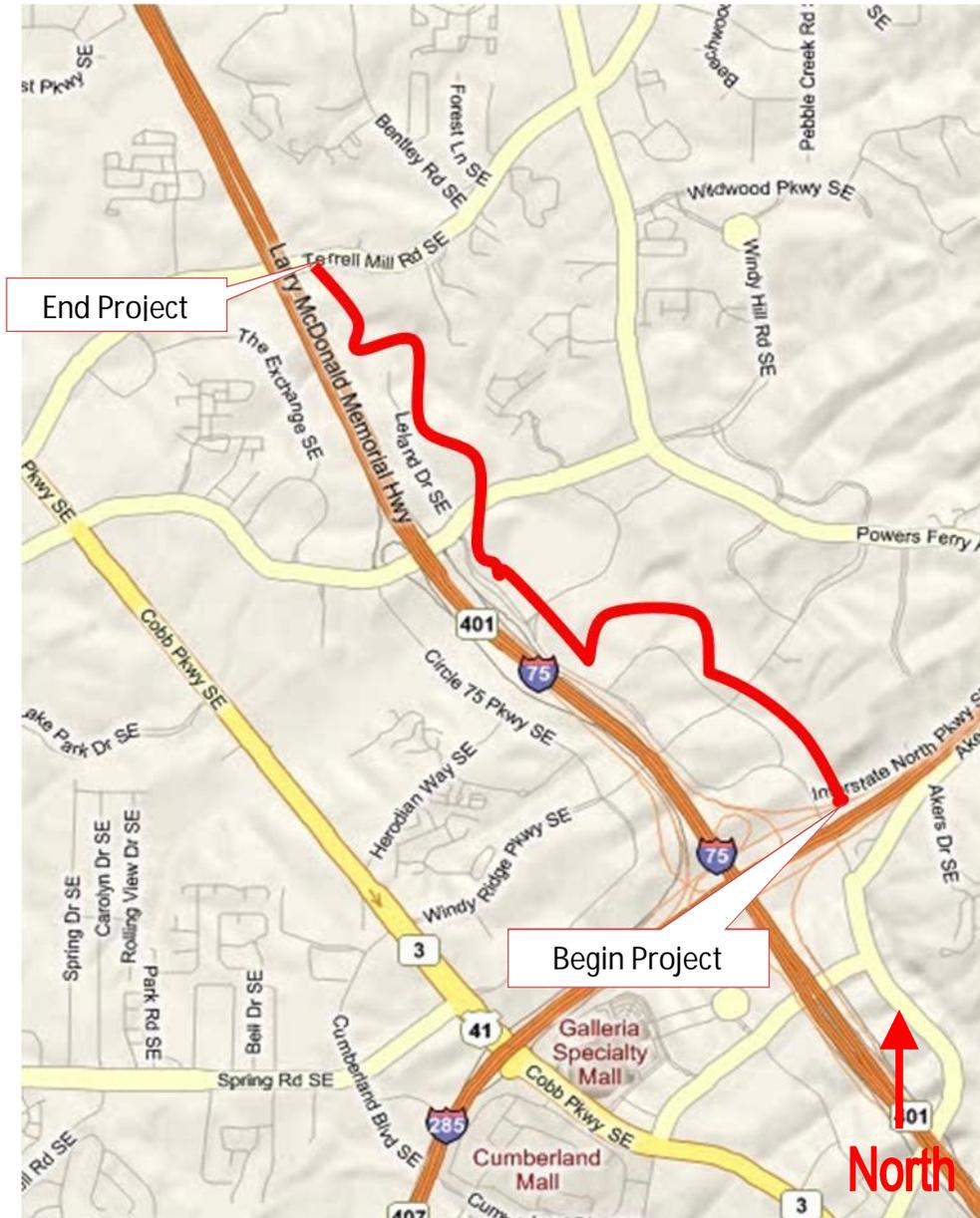
DATE _____ Sean Johnston, Kimley-Horn and Associates, Inc.
Design Consultant Name and Firm Name
DATE 12-8-11 _____
Local Government
DATE 12/9/2011 Bobby Hilbard
Office Head
DATE 12/9/11 _____
Project Manager

Recommendation for approval:

DATE _____ Program Control Administrator
DATE 2/3/2012 GLENN BOWMAN *TJ
DATE 2/20/2012 State Environmental Administrator
LISA MYERS *TJ
DATE 1/19/2012 Project Review Engineer
PATRICK ALLEN *TJ
DATE 1/24/2012 State Utilities Engineer
JONATHAN WALKER *TJ
DATE 1/20/2012 District Engineer / District Utilities Engineer
BEN KABUN *TJ
DATE _____ State Bridge Design Engineer
State Transportation Financial Management Administrator

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).

DATE 1/20/2012 _____
CHAITHIA L. VAN DYKE *TJ
State Transportation Planning Administrator



Project Location Map

Project Number: N/A

Bob Callan Trunk Trail - Phase II

P.I. Number: 0010009

Cobb County, GA

Source: Microsoft Streets & Trips 2008

Need and Purpose:

The Cumberland Community Improvement District and the Cobb County Department of Transportation have identified the need to expand the existing network of trails in the Cumberland Galleria area northwest of Atlanta, Georgia. P.I. 0010009 will serve to improve pedestrian access and allow connectivity for alternative modes of transportation by providing approximately 2.1 miles of trail that will extend between the existing Bob Callan trailhead on Interstate North Parkway (located just north of I-285 and the intersection with Cumberland Boulevard) and Terrell Mill Road. The project will provide connectivity for pedestrians and cyclist from the Terrell Mill Road/Powers Ferry Road area to the Cumberland Galleria. The resulting network would also provide connectivity for pedestrians and cyclists to other nearby trails, such as the Kennesaw Mountain to Chattahoochee River Trail and the Silver Comet Trail, the proposed Phase I of the Bob Callan Loop Trail along Akers Mill Road, and the Palisades unit of the Chattahoochee River National Recreation Area (CRNRA).

Description of the proposed project:

P.I. 0010009 consists of the construction of approximately 11,100 linear feet (2.1 miles) of 10-foot wide multiuse path that generally follows the west side of Rottenwood Creek. The project begins at the existing Bob Callan trailhead just north of I-285 and continues along Rottenwood Creek to Terrell Mill Road. The trail will cross under roads such as Windy Ridge Parkway and Windy Hill Road without having to interact with vehicular traffic. A timber boardwalk will be constructed for portions of the trail along Rottenwood Creek, particularly in those areas where the trail is within the existing floodplain. Pervious concrete will be used for other areas along the creek that are within the existing 25-foot state stream buffer. A total of eleven bridges are proposed for crossings over minor tributaries of Rottenwood Creek. The trail will include provisions for future connections to existing residential developments along the length of the project, and a new trailhead will be constructed at Terrell Mill Road.

Is the project located in a PM 2.5 Non-attainment area? Yes No

Is this project located in an Ozone Non-attainment area? Yes No

This project is intended to improve bicycle and pedestrian mobility and will not affect roadway capacity. The project is not required to be included in the conforming plans' model.

PDP Classification: Major _____ Minor _____

Federal Oversight: Full Oversight () Exempt () State Funded () or Other ()

Functional Classification: N/A

U. S. Route Number(s): N/A State Route Number(s): N/A

Traffic (AADT): N/A

Existing design features:

- No existing design features; trail to be constructed on new alignment.

Proposed Design Features:

- Proposed Typical Section (at Grade): One 10-foot wide multiuse path with 2-foot minimum graded shoulders on each side
- Proposed Typical Section (Boardwalk): One 12-foot wide multiuse path on timber structure
- Proposed Design Speed: 12 mph
- Proposed Maximum Grade: 8%
- Maximum Grade Allowable: 8%
- Proposed Minimum Radius of Curve: 15 feet
- Minimum Radius Allowable: 15 feet (with advance warning signage per AASHTO Guide for the Development of Bicycle Facilities)
- Proposed Superelevation Rate: 2%
- Maximum Superlevation Rate Allowable: 2%
- Right-of-Way:
 - Permanent Easement acquisition is anticipated for surface rights along Rottenwood Creek. Right-of-way is anticipated for permanent elevated structures (bridges, boardwalk). Total acquisition anticipated to be 70% easement, 30% R/W. Approximately 90% of req'd easm't and r/w overlaps existing sewer easm't
 - Easements: Temporary () Permanent (X) Utility () Other ().
 - Type of access control: Full () Partial () By Permit () Other ().
 - Number of parcels: 16 Number of displacements: 0
 - Business: None
 - Residences: None
 - Mobile homes: None
 - Other: None
- Structures:
 - Boardwalk: Approximately 1407 feet long, 12 feet wide along Rottenwood Creek
 - Three steel truss bridges crossing Rottenwood Creek. Eight steel truss or timber bridges crossing minor tributaries of Rottenwood Creek
- Major intersections along the project:
 - Existing trailhead on Interstate North Parkway
 - Proposed trailhead at Terrell Mill Road
- Transportation Management Plan Anticipated: Yes () No (X)
- Design Exceptions to controlling criteria anticipated:

	<u>YES</u>	<u>NO</u>	<u>UNDETERMINED</u>
HORIZONTAL ALIGNMENT:	()	()	(X)
LANE WIDTH:	()	()	(X)
SHOULDER WIDTH:	()	()	(X)
VERTICAL GRADES:	()	()	(X)
CROSS SLOPES:	()	()	(X)
STOPPING SIGHT DISTANCE:	()	()	(X)

Project Activities Responsibilities:

- Design: Consultant/Cobb County/Cumberland CID
- Right-of-Way Acquisition: Cobb County
- Right-of-Way funding (real property): GDOT
- Relocation of Utilities: Cobb County
- Letting to contract: Cobb County
- Supervision of construction: Cobb County
- Providing material pits: Responsibility of the Construction Contractor
- Providing detours: No temporary detours are anticipated
- Environmental Studies/Documents/Permits: Consultant/Cobb County
- Environmental Mitigation: Cobb County

Coordination

- Initial Concept Meeting date and brief summary: TBD
- Concept meeting date and brief summary: 10/28/2009
- P A R meetings, dates and results: None required
- FEMA, USCG, and/or TVA: No-rise certification required for crossing of Rottenwood Creek.
- Public involvement: None required
- Local government comments: See attached concept team meeting minutes dated 10/28/2009
- Other projects in the area:
 - Bob Callan Loop Trail, Phase 1 (P.I. 0010010)
 - Interstate North Trail (P.I. 0008100)
- Railroads: N/A
- Peer Review documentation: N/A
- Other coordination to date: N/A

Scheduling – Responsible Parties’ Estimate:

- | | | |
|---|--------------|------------|
| • Time to complete the environmental process: | Begin: 5/11 | End: 12/12 |
| • Time to complete preliminary construction plans: | Begin: 12/11 | End: 1/13 |
| • Time to complete right-of-way plans: | Begin: 1/13 | End: 4/13 |
| • Time to complete the Section 404 Permit: | Begin: 1/13 | End: 6/13 |
| • Time to complete final construction plans: | Begin: 6/13 | End: 2/15 |
| • Time to complete the purchase of right-of-way: | Begin: 4/13 | End: 8/14 |
| • List other major items that will affect the project schedule: | Begin: n/a | End: n/a |

Project Concept Report Page 7
Project Number: N/A
P.I. Number: 0010009
County: Cobb

Other Alternates considered:

(1) Construct multi-use facility beginning at the existing Bob Callan trailhead on Interstate North parkway just north of I-285 and continuing along Rottenwood Creek to Terrell Mill Road. The trail will be constructed on boardwalk where the trail enters the existing floodplain and under existing roadway bridges to avoid at-grade intersections where possible.

(2) No Build.

Comments:

Comparison Summary of Alternates 1-2

Alternate (1) is recommended for this concept.

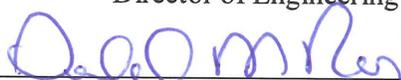
Alternate (2) is not recommended for this concept. The no-build alternate would not provide the needed connections between existing trails in the area, and would not meet the need and purpose of improving bicycle and pedestrian accessibility in the area.

Attachments:

1. Construction Cost Estimate
2. Right-of-Way Cost Estimate
3. Typical Sections
4. Concept Layout
5. Concept Team Meeting Minutes 2009-10-28

Exempt projects

Concur: 
Director of Engineering

Approve: 
Chief Engineer

Date: 4-25-12

**GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY**

Date: 10/14/2011 Project: N/A
 Revised: County: Cobb
 PI: 0010009

Description: Bob Callan Trunk Trail, Phase II
 Project Termini: Interstate North Parkway to Terrell Mill Road

Parcels: 16 Existing ROW:
 Required ROW:

Land and Improvements \$2,018,550.00

Proximity Damage \$0.00

Consequential Damage \$0.00

Cost to Cures \$125,000.00

Trade Fixtures \$0.00

Improvements \$0.00

Valuation Services \$150,000.00

Legal Services \$123,300.00

Relocation \$32,000.00

Demolition \$0.00

Administrative \$137,000.00

TOTAL ESTIMATED COSTS \$2,460,850.00

TOTAL ESTIMATED COSTS (ROUNDED) \$2,461,000.00

Preparation Credits	Hours	Signature

Prepared By: Jane Stricklin CG#: (DATE) 12-2-11
 Approved By: John Alexander CG#: 286999 (DATE) 12-05-11

NOTE: No Market Appreciation is Included in this Preliminary Cost Estimate

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI N/A Cobb 0010009

	A	B	C	D
Land and Improvements	Agriculture	Residential	Commercial	Industrial
1 Estimate Low (ac)	\$0.00	\$0.00	\$120,000.00	\$0.00
2 Estimate High (ac)	\$0.00	\$0.00	\$140,000.00	\$0.00
3 Estimate Used (ac)	\$0.00	\$0.00	\$130,000.00	\$0.00
4 Fee Simple Area (ac)	0.00	0.00	3.17	0.00
5 Fee Simple Estimate	\$0.00	\$0.00	\$412,100.00	\$0.00
6 Perm Esmt Area (ac)	0.00	0.00	6.22	0.00
7 Perm Esmt Factor	0%	0%	100%	0%
8 Perm Esmt Estimate	\$0.00	\$0.00	\$808,600.00	\$0.00
9 Temp Esmt Area (ac)	0.00	0.00	0.00	0.00
10 Temp East Factor	0%	0%	0%	0%
11 Temp Esmt Estimate	\$0.00	\$0.00	\$0.00	\$0.00
12 Proximity Damages	\$0.00	\$0.00	\$0.00	\$0.00
13 Consequential Damages	\$0.00	\$0.00	\$0.00	\$0.00
14 Cost to Cures	\$0.00	\$0.00	\$125,000.00	\$0.00
15 Improvements	\$0.00	\$0.00	\$0.00	\$0.00
16 Trade Fixtures	\$0.00	\$0.00	\$0.00	\$0.00
17				
18 PROPERTY TYPE TOTALS	\$0.00	\$0.00	\$1,345,700.00	\$0.00
19	SUB TOTAL PROPERTY TYPES			\$1,345,700.00
20	Counter Offers and Condemnation Increases			\$672,850.00
21				
22	GRAND TOTAL LANDS AND IMPROVEMENTS			\$2,018,550.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI N/A Cobb 0010009

	A	B	C	D
Valuation Services	Agriculture	Residential	Commercial	Industrial
1 Appraisals (# of Parcels)	0	0	16	0
2 Estimated Fees (per Parcel)	\$0.00	\$0.00	\$7,500.00	\$0.00
3 TOTAL APPRAISALS	\$0.00	\$0.00	\$120,000.00	\$0.00
4 Sign Estimates	0	0	0	0
5 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
6 TOTAL SIGN ESTIMATES	\$0.00	\$0.00	\$0.00	\$0.00
7 Specialty Reports	0	0	0	0
8 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
9 TOTAL SPECIALTY REPORTS	\$0.00	\$0.00	\$0.00	\$0.00
10 Septic/Well Reports	0	0	0	0
11 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
12 TOTAL SEPTIC/WELL REPORTS	\$0.00	\$0.00	\$0.00	\$0.00
13				
14				
15				
16 TOTAL VALUATION FEES	\$0.00	\$0.00	\$120,000.00	\$0.00
17	SUB TOTAL VALUATION SERVICES			\$120,000.00
18	Updates and Incidentals (Min \$2,500 or 25%)			\$30,000.00
19	GRAND TOTAL VALUATION SERVICES			\$150,000.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI

N/A

Cobb

0010009

	A	B	C	D
Legal Services	Parcels	Estimated Fees		TOTALS
1 Meeting with Attorney	16	\$125.00		\$2,000.00
2 Preliminary Titles	16	\$200.00		\$3,200.00
3 Closing and Final Title	16	\$300.00		\$4,800.00
4 Recording Fees	16	\$50.00		\$800.00
5 Condemnation Filing	3	\$5,000.00		\$15,000.00
6 Litigation Costs	3	\$25,000.00		\$75,000.00
7 Updates and Incidentals	3	\$7,500.00		\$22,500.00
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL LEGAL SERVICES			\$123,300.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI N/A Cobb 0010009

	A	B	C	D
Relocation	Displacements	Estimated Costs		TOTALS
1 Business Displacement		\$15,000.00		\$0.00
2 Residential Tenant		\$20,000.00		\$0.00
3 Residential Owner		\$40,000.00		\$0.00
4 Pro-Rata Taxes	16	\$1,000.00		\$16,000.00
5 Property Pin Replacement	16	\$1,000.00		\$16,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17		GRAND TOTAL RELOCATION		\$32,000.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

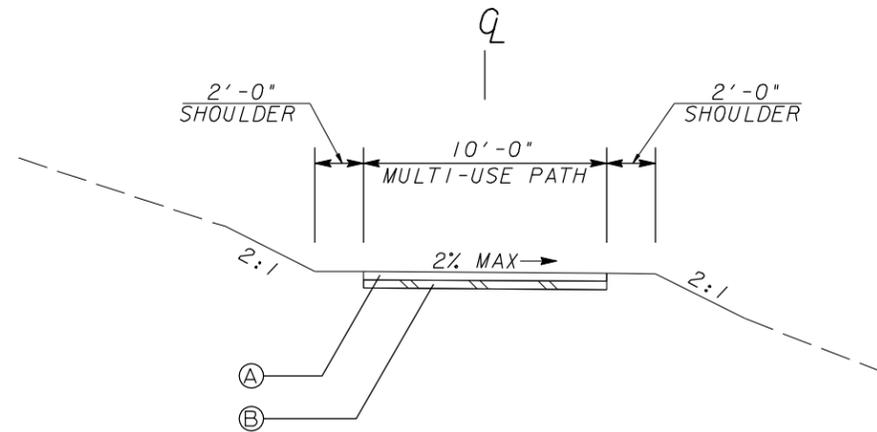
Project/County/PI N/A Cobb 0010009

	A	B	C	D
	Demolition	Items/Improvements	Estimated Costs	TOTALS
1	Residential Structures		\$15,000.00	\$0.00
2	Commercial Structures		\$25,000.00	\$0.00
3	Hotels/Apartments		\$60,000.00	\$0.00
4	UST's - Dispensers		\$50,000.00	\$0.00
5	Billboards		\$8,000.00	\$0.00
6	Signs - Light Standards		\$1,500.00	\$0.00
7	Water Vaults		\$15,000.00	\$0.00
8	Gas/Water Service Separation		\$2,500.00	\$0.00
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL DEMOLITION			\$0.00

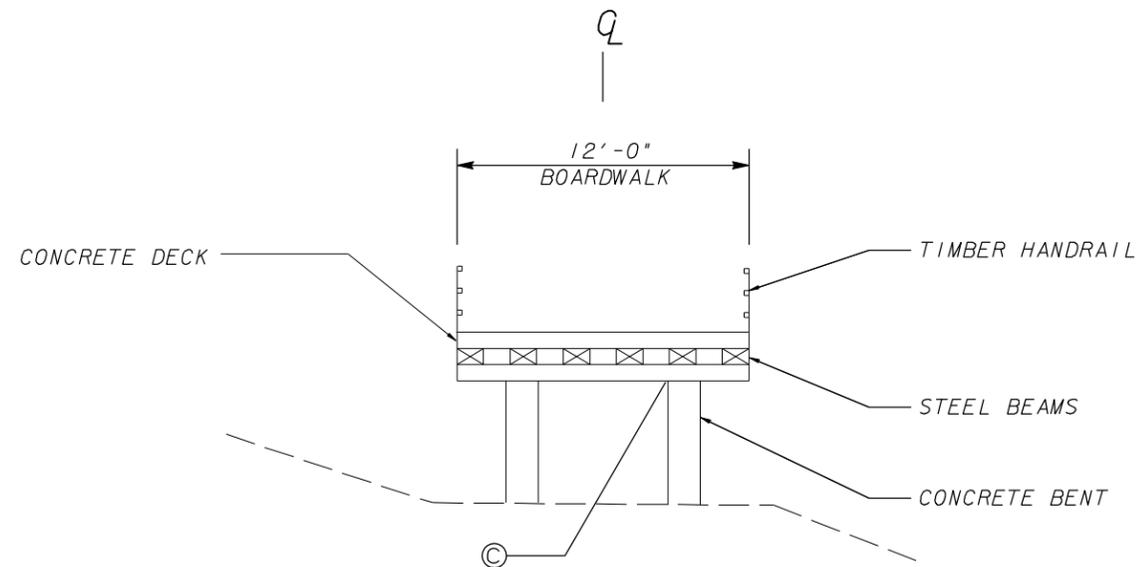
Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI N/A Cobb 0010009

	A	B	C	D
	Parcels	Man hours per Parcel		TOTALS
1	16	40		\$32,000.00
2	16	100		\$80,000.00
3		50		\$0.00
4	4	50		\$10,000.00
5	3	100		\$15,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL INHOUSE			\$137,000.00



TS-1
PROPOSED MULTI-USE PATH SECTION
TYPICAL POROUS CONCRETE SECTION



TS-2
PROPOSED MULTI-USE PATH SECTION
TYPICAL BOARDWALK SECTION

REQUIRED PAVEMENT

- Ⓐ POROUS CONCRETE (6 IN)
- Ⓑ *57 STONE OPEN-GRADED AGGREGATE (4 IN)
- Ⓒ BOARDWALK (CONCRETE, STEEL & TIMBER)

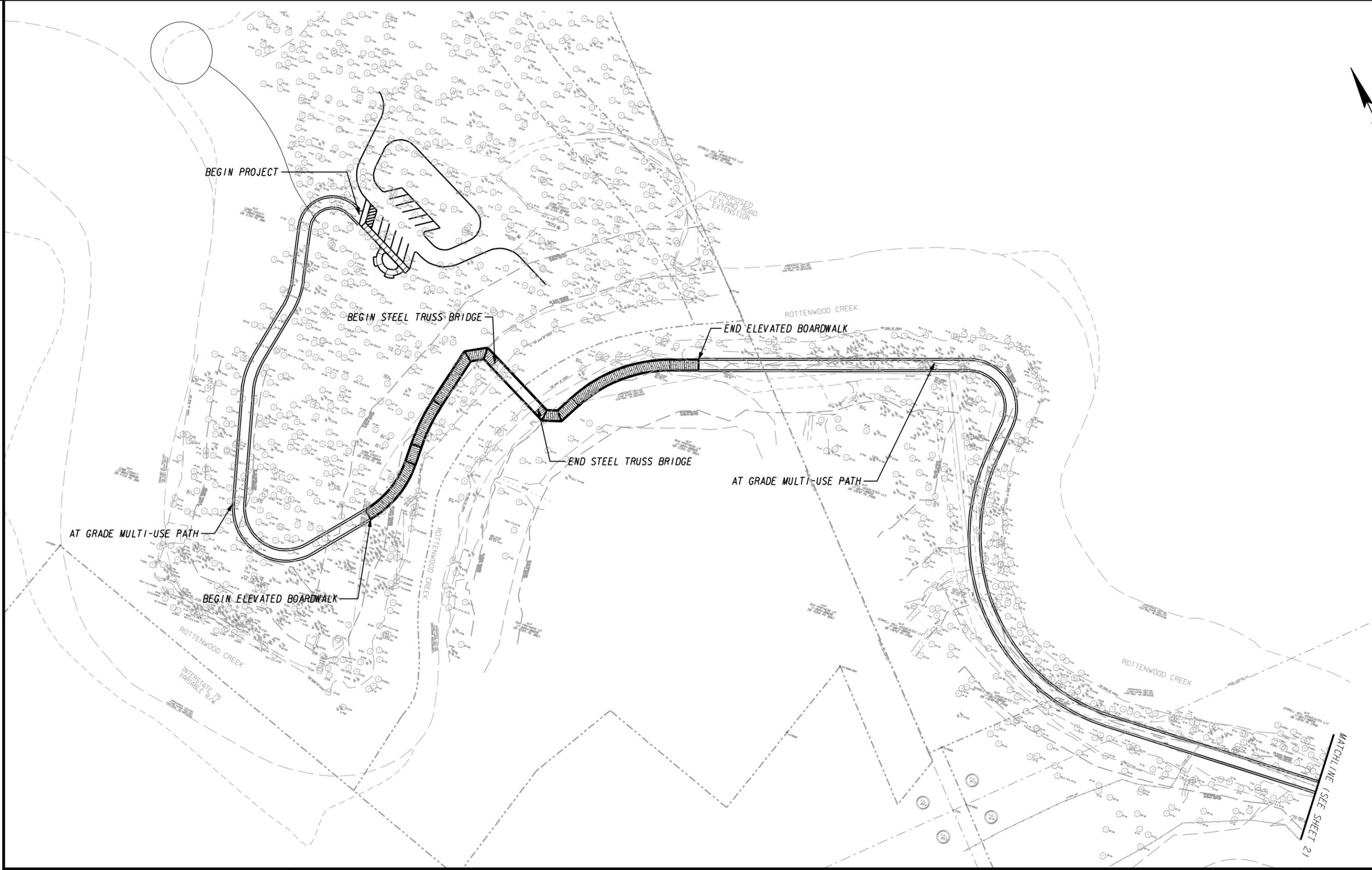
**Kimley-Horn
and Associates, Inc.**
Engineering, Planning, and Environmental Consultants
Suite 600, 3189 Holcomb Bridge Road
Norcross, Georgia 30071

REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: **TYPICAL SECTIONS**

DRAWING No.	5-01
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3/1/2007 GR220F

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 817 W. Peachtree Street NW, Suite 601
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REVISION DATES	

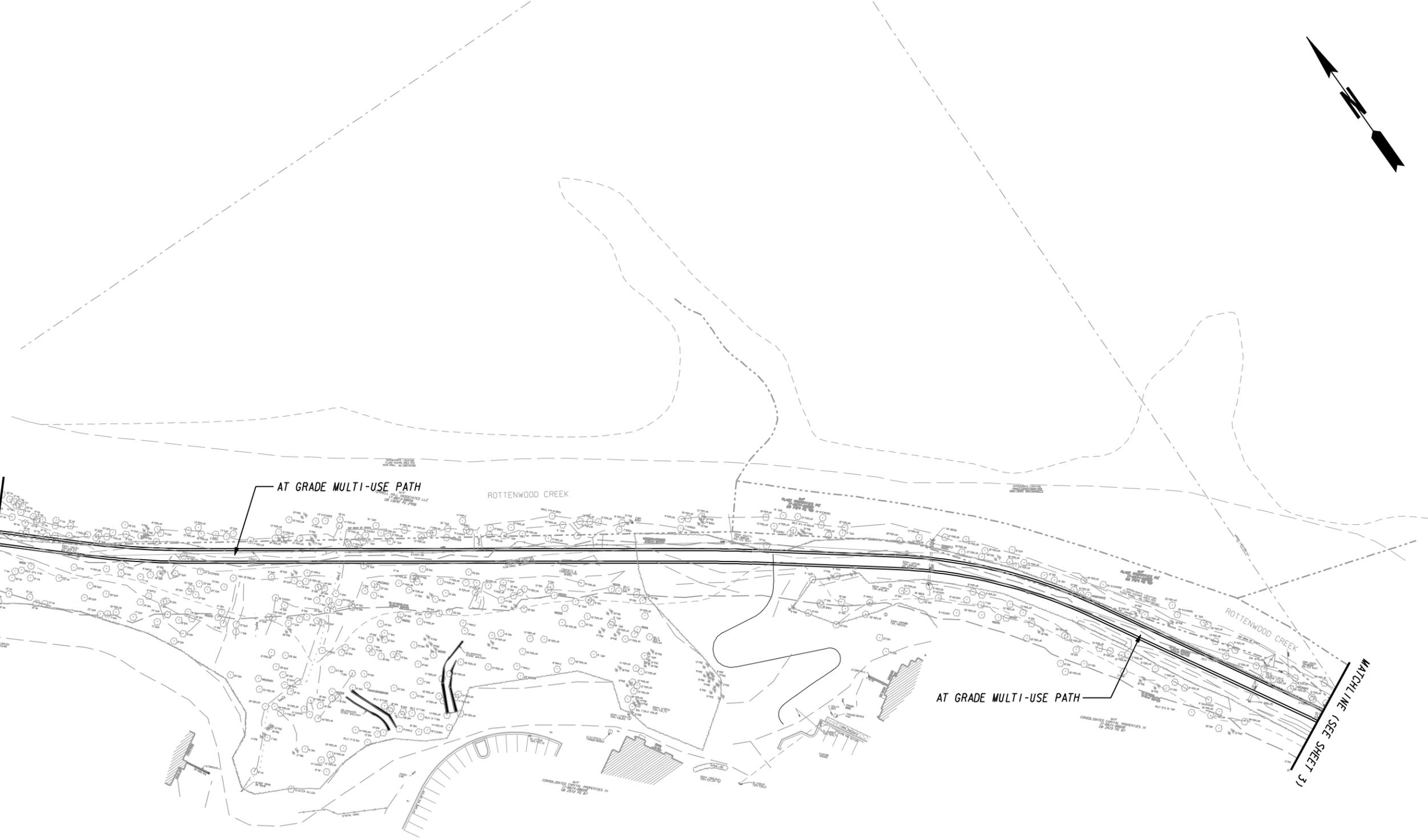
COBB COUNTY
 DEPARTMENT OF TRANSPORTATION

OFFICE:
**BOB CALLAN PHASE 2
 CONCEPT PLAN**

DRAWING No.
 1



MATCHLINE (SEE SHEET 1)



MATCHLINE (SEE SHEET 3)

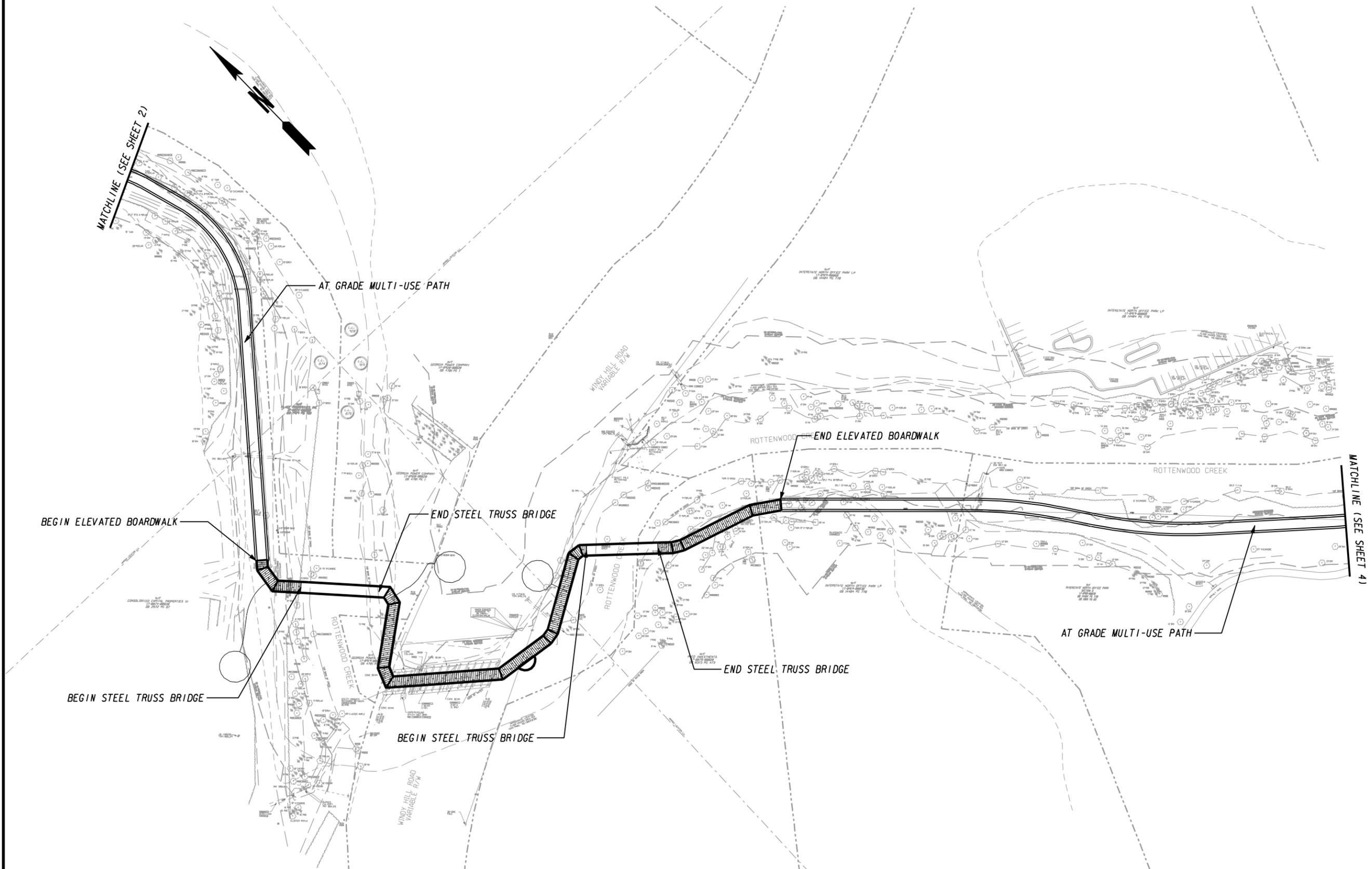
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REVISION DATES	

COBB COUNTY
 DEPARTMENT OF TRANSPORTATION
 OFFICE:
**BOB CALLAN PHASE 2
 CONCEPT PLAN**

DRAWING No.
2



SECTION
SHEET 2A
SHEET 2B
SHEET 2C
SHEET 2D

SECTION
SHEET 2A
SHEET 2B
SHEET 2C
SHEET 2D

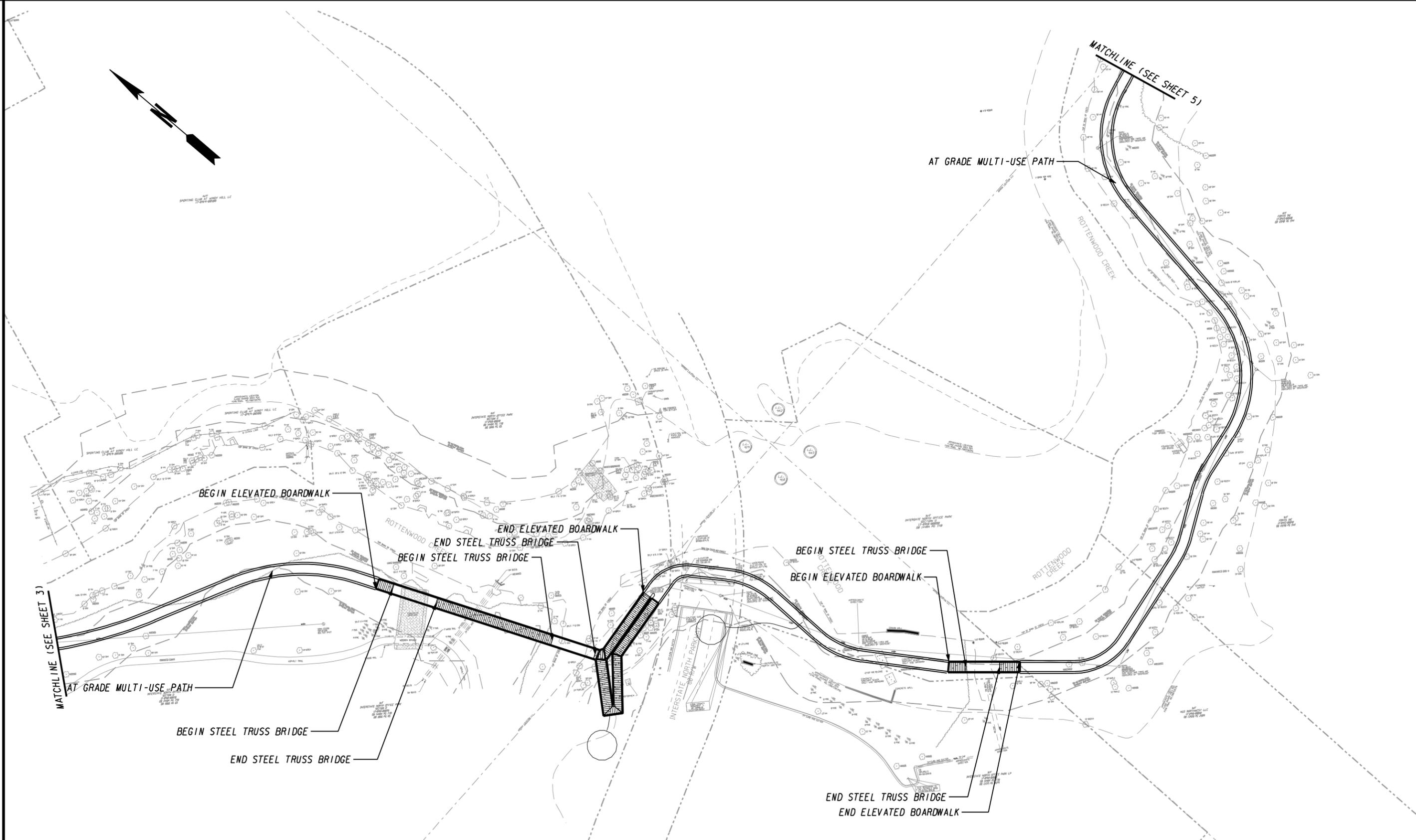
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REVISION DATES	

COBB COUNTY
 DEPARTMENT OF TRANSPORTATION
 OFFICE:
**BOB CALLAN PHASE 2
 CONCEPT PLAN**

DRAWING No.
3



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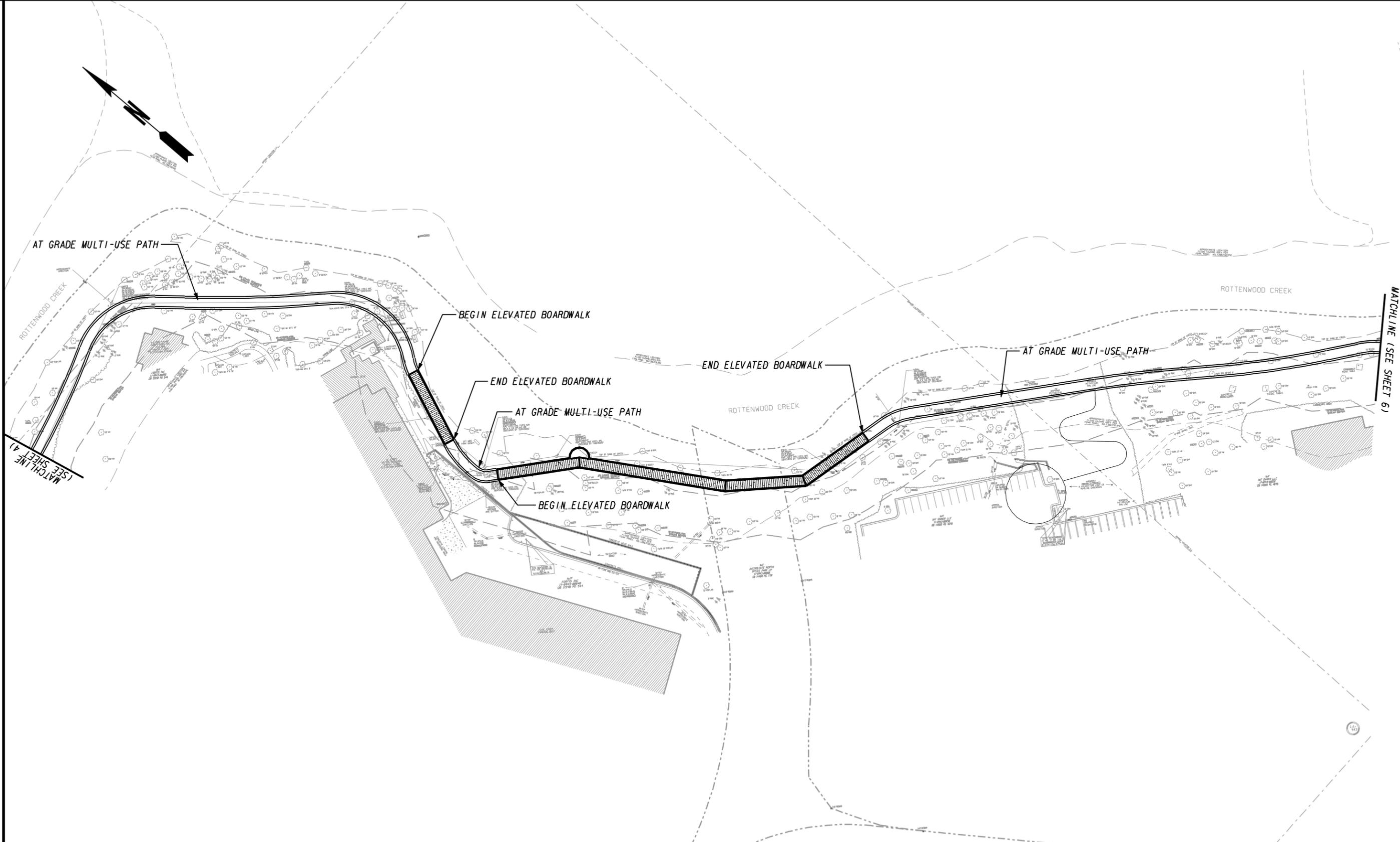


REVISION DATES	

COBB COUNTY
 DEPARTMENT OF TRANSPORTATION

OFFICE:
**BOB CALLAN PHASE 2
 CONCEPT PLAN**

DRAWING No.
 4



3/11/2007 GR220F

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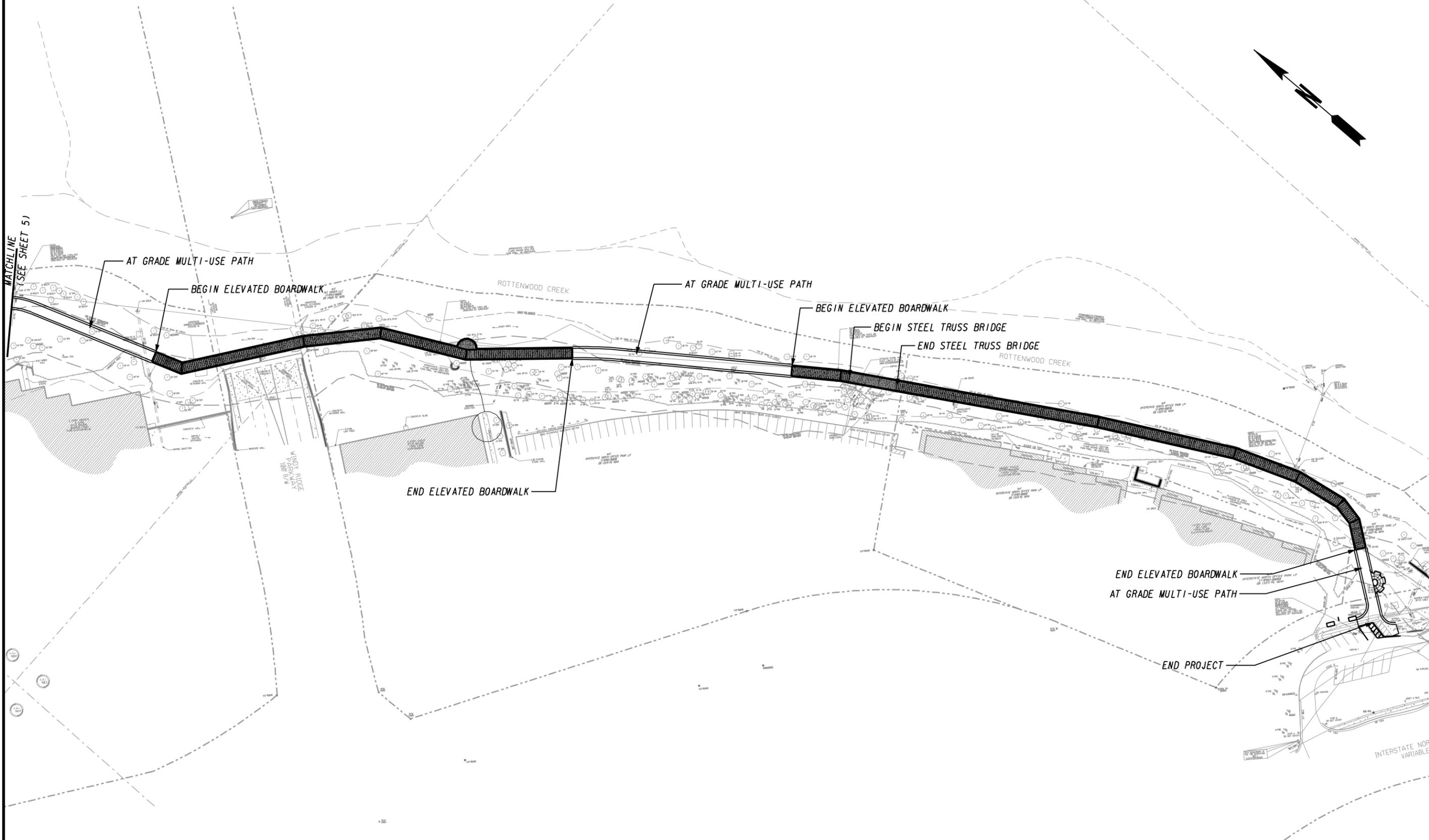


REVISION DATES	

COBB COUNTY
DEPARTMENT OF TRANSPORTATION

OFFICE:
**BOB CALLAN PHASE 2
CONCEPT PLAN**

DRAWING No.
5



3/11/2007 GR220F

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 Engineering, Planning, and Environmental Consultants
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 Atlanta, Georgia 30308



REVISION DATES	

COBB COUNTY
DEPARTMENT OF TRANSPORTATION

OFFICE:
**BOB CALLAN PHASE 2
CONCEPT PLAN**

DRAWING No.
6

Bob Callan Trail Phase II
Cobb County Department of Transportation
Project No. CCID-1033
10/28/2009 – 4:00 PM

I. People Present

- Bob Galante – Cobb DOT
- Mike Cates – Cobb DOT
- Jane Stricklin – Cobb DOT
- Dan McDuff – Cobb DOT/PBS&J
- Tom Boland – Cumberland CID
- Sean Johnston – Kimley-Horn and Associates
- Ray Strychalski – Kimley-Horn and Associates

II. Materials Utilized

- Revised concept layout and cost estimates as submitted on 9/25/2009

III. Discussion

- KHA presented an updated concept layout for the proposed extension of the Bob Callan Trail from its current trailhead on Interstate North Parkway north of I-285 to Terrell Mill Road. KHA explained that the concept has been revised so that all proposed grades meet ADA guidelines for 8% or less longitudinal slope, and so that bridge elevations at major stream crossings are above the 100 year floodplain elevation.
- The crossing of Poplar Creek with a hinged bridge was discussed. KHA explained that steep grades in excess of ADA and AAHSTO guidelines would be required in order to cross Poplar Creek above the 100 year floodplain and also cross under the nearby Interstate North Parkway bridge. A hinged trail bridge was proposed to eliminate the need to span the floodplain. Cobb DOT and Cumberland CID staff expressed concerns about maintenance of a hinged structure, and asked that KHA examine other alternatives, such as use of switchbacks or using grades in excess of ADA and AASHTO requirements for short sections.
- Boardwalk materials were discussed. The project consists of approximately 1700 LF of boardwalk, therefore materials could have a significant impact on construction and maintenance costs. CCID prefers lower cost materials, while Cobb DOT is concerned with maintenance costs. KHA presented cost estimates based on the concept plan for both timber and concrete boardwalk. KHA presented photos of alternative concrete structures, including cored slab decks and a product known as Permatrak, as a potential low-maintenance solution to timber. KHA noted that the cost of concrete would be approximately 15%, or \$700,000 higher than timber. Cobb DOT requested that KHA evaluate other more aesthetic trail materials, such as steel structures with timber deck boards.

Bob Callan Trail Phase II
Cobb County Department of Transportation
Project No. CCID-1033
10/28/2009 – 4:00 PM

- The Windy Hill Road bridge over Rottenwood Creek was also discussed. Recent flooding has created significant scour under the bridge, and Cobb DOT has plans to repair the end rolls with gabions and flowable fill. Cobb DOT requested that KHA send pictures of the bridge prior to the September floods, and agreed to schedule a field visit to observe the scour and discuss solutions for the trail alignment under the bridge.

This is the understanding of the Kimley-Horn attendees of the meeting. If you have any questions or concerns, please contact Sean Johnston at (404) 419-8716 or sean.johnston@kimley-horn.com