STEEP SLOPE & ERODABLE SOILS ANALYSIS

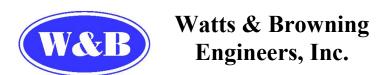
For

COLEMAN ROAD TRACT

Located in Land Lots 233, 234, 270 12th District Fulton County, GA

August 6, 2014





Civil Engineering · Land Planning · Land Surveying Phone: 678-324-6192 Fax: 678-694-6870

Narrative:

The subject property is located in the northeast quadrant of the intersection of Marietta Highway and Coleman Road in Land Lots 233, 234, and 270 of the 12th District, Fulton County, GA.

The existing site is partially developed and heavily wooded.

The purpose of a steep slope and erodible soils analysis is to protect health, safety, and property from instability and erosion due to inappropriate use or over-development of land within 500-ft of state waters. A steep slope and erodible soils analysis is necessary to determine the land development potential for land within 500-ft of state waters. This development is based on the following scoring system:

- 1. A segment score of 35 or greater shall be designated as part of the buffer and no development shall be approved in that segment
- 2. A segment score of 25 or 30 shall require the application of additional protective measures as required by the Engineering Division Manager of the Community Development Department. Additionally, development shall not be prohibited and that area shall not be part of the buffer
- 3. A segment score of 20 or less shall be developed with standard protective measures and that area shall not be part of the buffer.

Conclusion:

The steep slope and erodible soils analysis was performed in accordance with City of Roswell's standards and guidelines.

The following slope analysis data tables show that for all segments on the subject property the scores range from 25 to 10; which requires additional protective measures and standard protective measures respectively. The additional protective measures will include berms and diversions, Pam, slope stabilization (matting), and vegetation, or other measures as required by the Engineering Division Manager of the Community Development Department. Additionally, no portion of the property that falls within 500-ft of state waters is considered a buffer.

Note: None of the property drains to the nearby lake on the northwest side of Coleman Road, rather the site drains via a 700-ft +/- ditch that runs southerly along the southeast side of Coleman Road to the intersection of Coleman Road and Marietta Highway then through a road culvert to the stream below the lake.

Project: Coleman Road Tract

Date: 8/6/2014

Cross-Section: A

Segment	1		2		3	
Factor	Value	Score	Value	Score	Value	Score
Slope	7	0	21	10	10	5
Slope Length (ft)	760	10	819	10	915	10
K Factor	0.24	5	0.28	5	0.28	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	1039	0	980	0	884	0
Total Score		15		25		20

Segment	4		5		6	
Factor	Value	Score	Value	Score	Value	Score
Slope	7	0	2	0	1	0
Slope Length (ft)	1064	10	1524	10	1799	10
K Factor	0.28	5	0.28	5	0.28	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	735	0	275	5	0	10
Total Score		15		20		25

Segment						
Factor	Value	Score	Value	Score	Value	Score
Slope						
Slope Length (ft)						
K Factor						
Cover						
Sediment Delivery						
Total Score		0		0		0

Project: Coleman Road Tract

Date: 8/6/2014

Cross-Section: B

Segment	1		2		3	
Factor	Value	Score	Value	Score	Value	Score
Slope	4	0	11	5	3	0
Slope Length (ft)	125	5	195	5	283	10
K Factor	0.24	5	0.24	5	0.24	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	1573	0	1503	0	1415	0
Total Score		10		15		15

Segment	4		5		6	
Factor	Value	Score	Value	Score	Value	Score
Slope	15	5	39	10	5	0
Slope Length (ft)	358	10	413	10	453	10
K Factor	0.24	5	0.24	5	0.24	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	1340	0	1285	0	1245	0
Total Score		20		25		15

Segment	7		8		9	
Factor	Value	Score	Value	Score	Value	Score
Slope	16	5	38	10	16	5
Slope Length (ft)	513	10	528	10	568	10
K Factor	0.24	5	0.24	5	0.24	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	1185	0	1170	0	1130	0
Total Score		20		25		20

Segment	10		11		12	
Factor	Value	Score	Value	Score	Value	Score
Slope	8	0	19	5	2	0
Slope Length (ft)	618	10	683	10	761	10
K Factor	0.28	5	0.28	5	0.28	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	1080	0	1015	0	937	0
Total Score		15		20		15

Project: Coleman Road Tract

Date: 8/6/2014

Cross-Section: B

Segment	13		14		15	
Factor	Value	Score	Value	Score	Value	Score
Slope	23	10	11	10	2	0
Slope Length (ft)	813	10	888	10	1423	10
K Factor	0.28	5	0.28	5	0.28	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	885	0	810	0	275	5
Total Score		25		25		20

Segment	16				
Factor	Value	Score			
Slope	1	0			
Slope Length (ft)	1698	10			
K Factor	0.28	5			
Cover	Woods	0			
Sediment Delivery	0	10			
Total Score		25			

Project: Coleman Road Tract

Date: 8/6/2014

Cross-Section: C

Segment	1		2		3	
Factor	Value	Score	Value	Score	Value	Score
Slope	3	0	9	0	4	0
Slope Length (ft)	92	5	200	5	314	10
K Factor	0.24	5	0.24	5	0.24	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	1682	0	1574	0	1460	0
Total Score		10		10		15

Segment	4		5		6	
Factor	Value	Score	Value	Score	Value	Score
Slope	21	10	2	0	1	0
Slope Length (ft)	1004	10	1499	10	1774	10
K Factor	0.24	5	0.28	5	0.28	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	770	0	275	5	0	10
Total Score		25		20		25

Segment						
Factor	Value	Score	Value	Score	Value	Score
Slope						
Slope Length (ft)						
K Factor						
Cover						
Sediment Delivery						
Total Score		0		0		0

Project: Coleman Road Tract

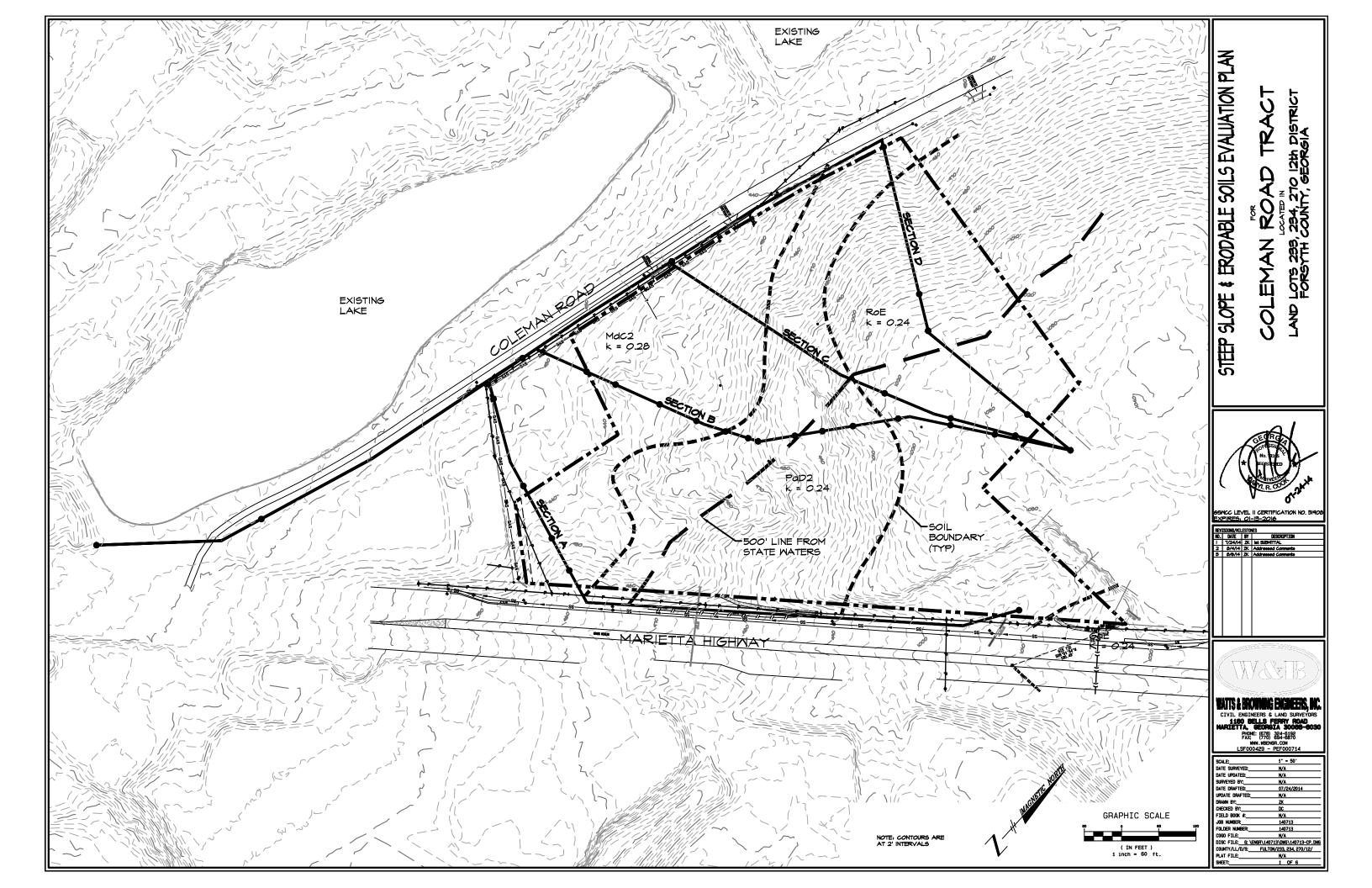
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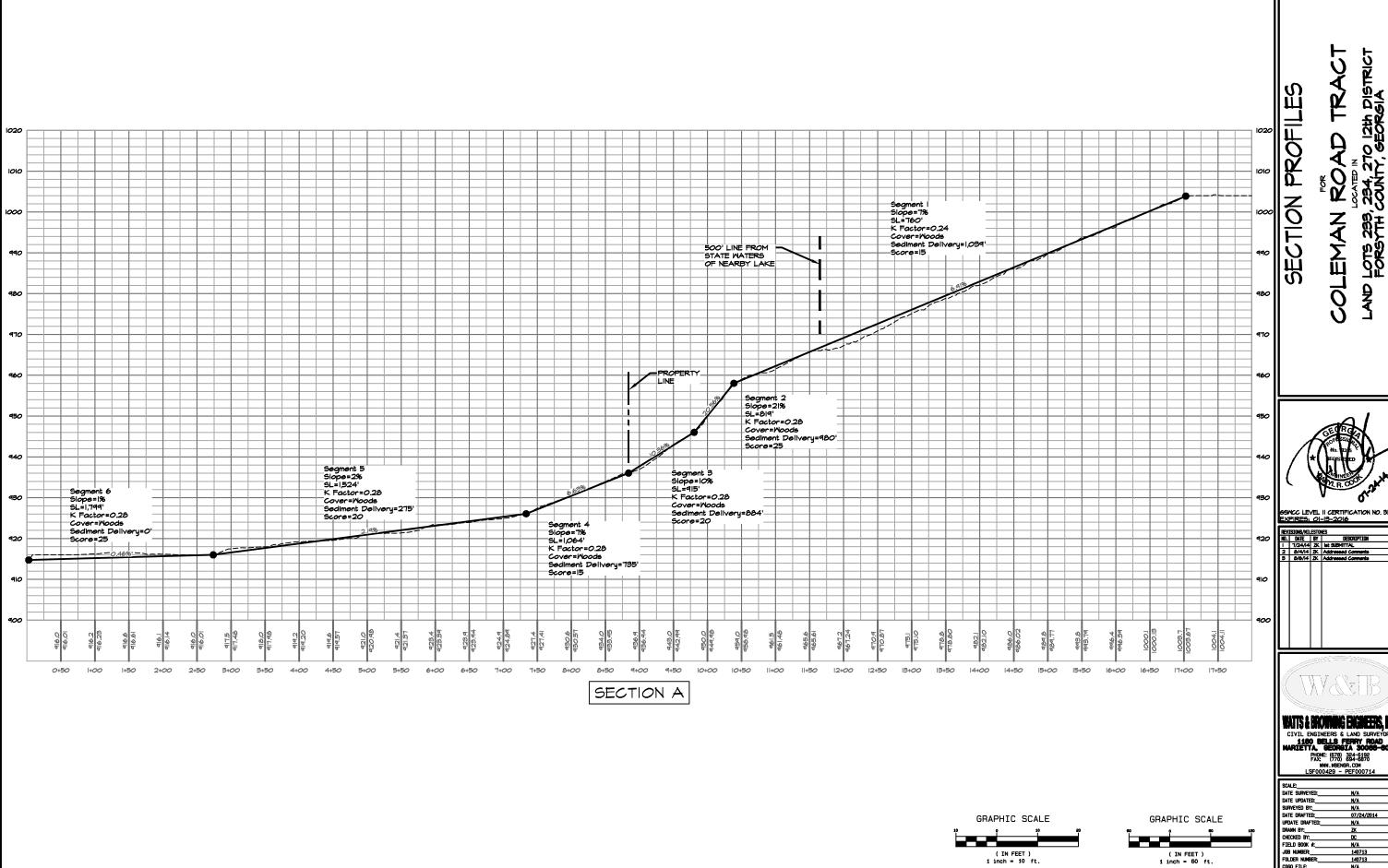
Cross-Section: D

Segment	1		2		3	
Factor	Value	Score	Value	Score	Value	Score
Slope	3	0	7	0	17	5
Slope Length (ft)	90	5	361	10	605	10
K Factor	0.24	5	0.24	5	0.24	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	1975	0	1704	0	1460	0
Total Score		10		15		20

Segment	4		5		6	
Factor	Value	Score	Value	Score	Value	Score
Slope	26	10	3	0	1	0
Slope Length (ft)	1008	10	1790	10	2065	10
K Factor	0.28	5	0.28	5	0.28	5
Cover	Woods	0	Woods	0	Woods	0
Sediment Delivery	1057	0	275	5	0	10
Total Score		25		20		25

Segment						
Factor	Value	Score	Value	Score	Value	Score
Slope						
Slope Length (ft)						
K Factor						
Cover						
Sediment Delivery						
Total Score		0		0		0







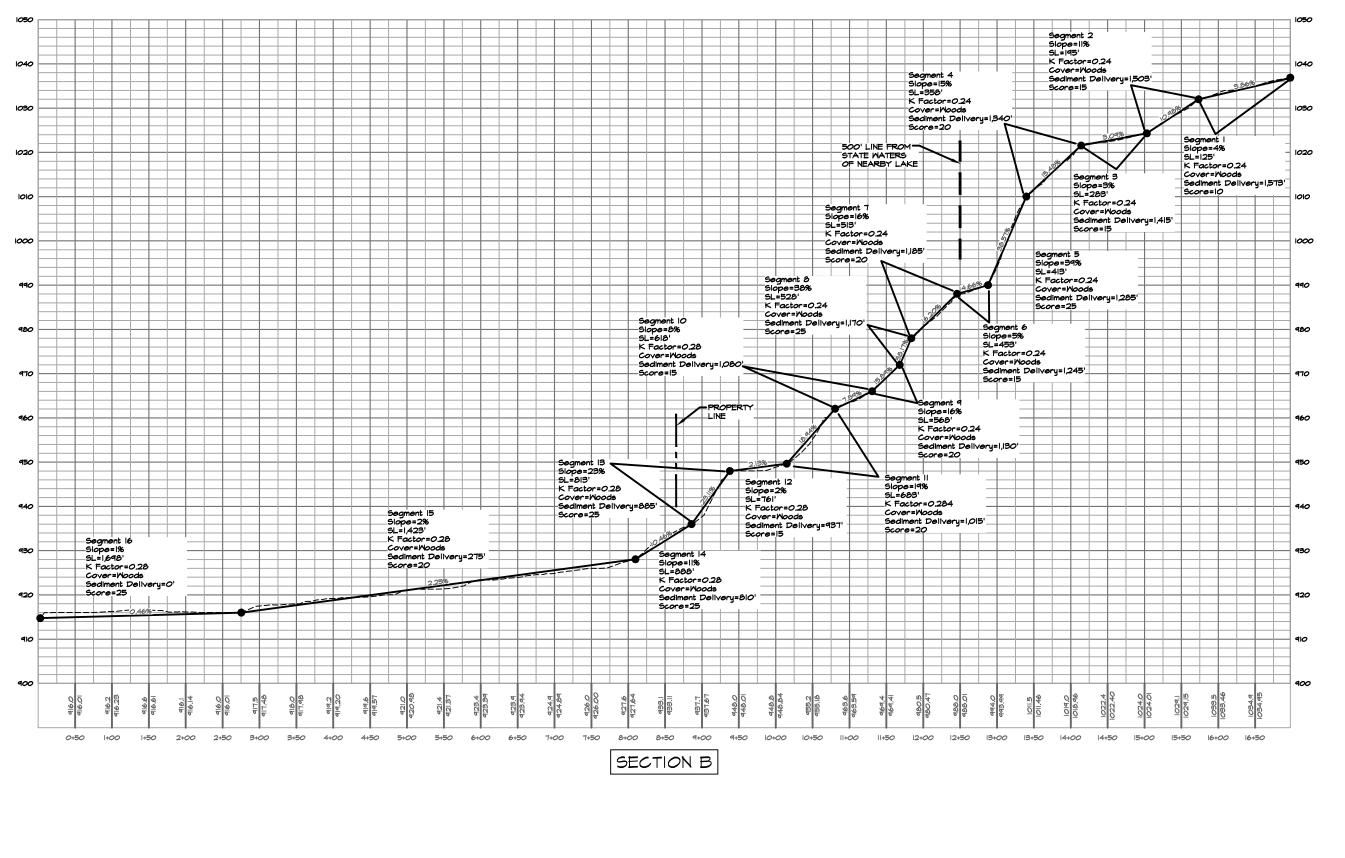
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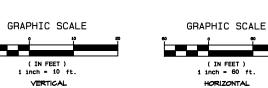


SCALE:	
DATE SURVEYED:	N/A
DATE UPDATED:	N/A
SURVEYED BY:	N/A
DATE DRAFTED:	07/24/2014
UPDATE DRAFTED:	N/A
DRAWN BY:	ZK
CHECKED BY:	DC
FIELD BOOK #:	N/A
JOB NUMBER:	140713
FOLDER NUMBER:	140713
COGO FILE:	N/A
DISC FILE: G: \E	NGR\140713\DNG\140713-CP.DN
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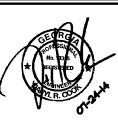
HORIZONTAL

VERTICAL





SECTION PROFILES COLEMAN ROAD TRACT LAND LOTS 239, 234, 270 12th DISTRICT FORSYTH COUNTY, GEORGIA

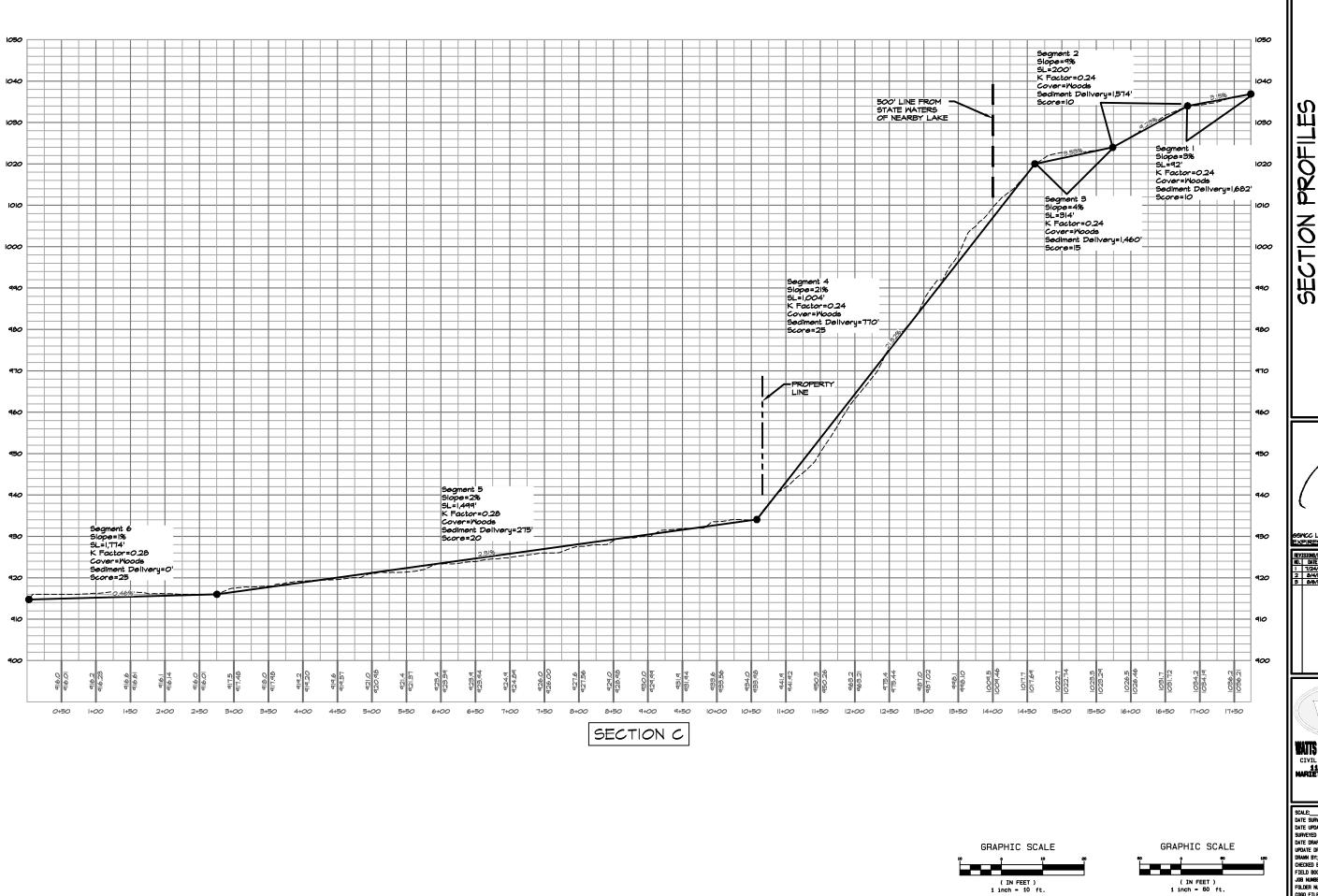


65MCC LEVEL II CERTIFICATION NO. 31908 EXPIRES: 01-13-2016



WAITS & BROWNING ENGREES, INC.
CTYLL ENGINEERS & LAND SURVEYORS
1160 BELLS FERRY ROAD
MARIETTA. GEORGIA 30068-6030
PHONE: (778) 324-6976
MUNI. WBENGR. COM
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3 OF 6



N ROAD TRACT LOCATED IN 8, 234, 270 12th DISTRICT 4 COUNTY, GEORGIA OLEMAN

233, 774,

LOTS FORS



SWCC LEVEL II CERTIFICATION NO. 3190 XPIRES; 01-13-2016

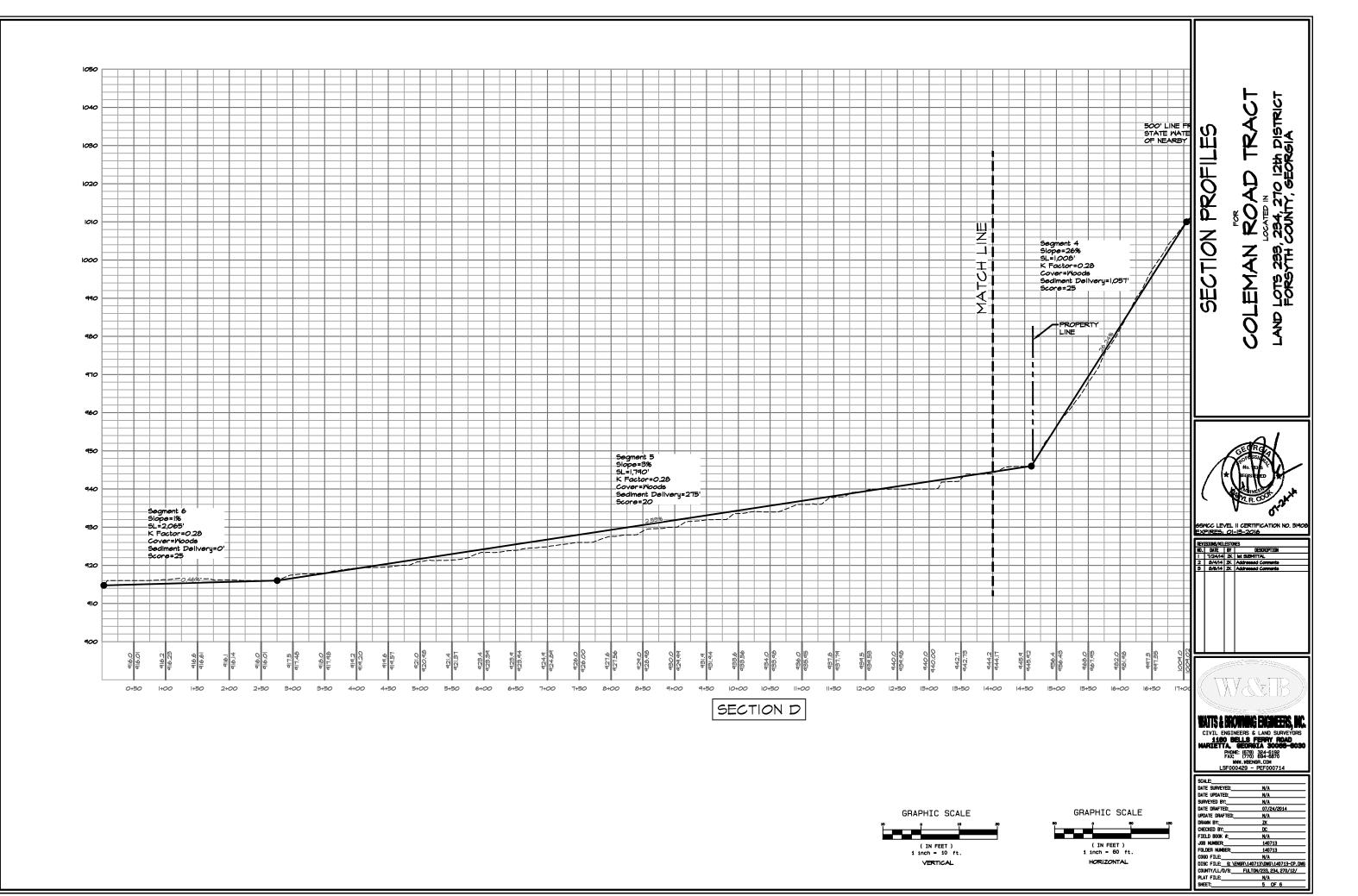


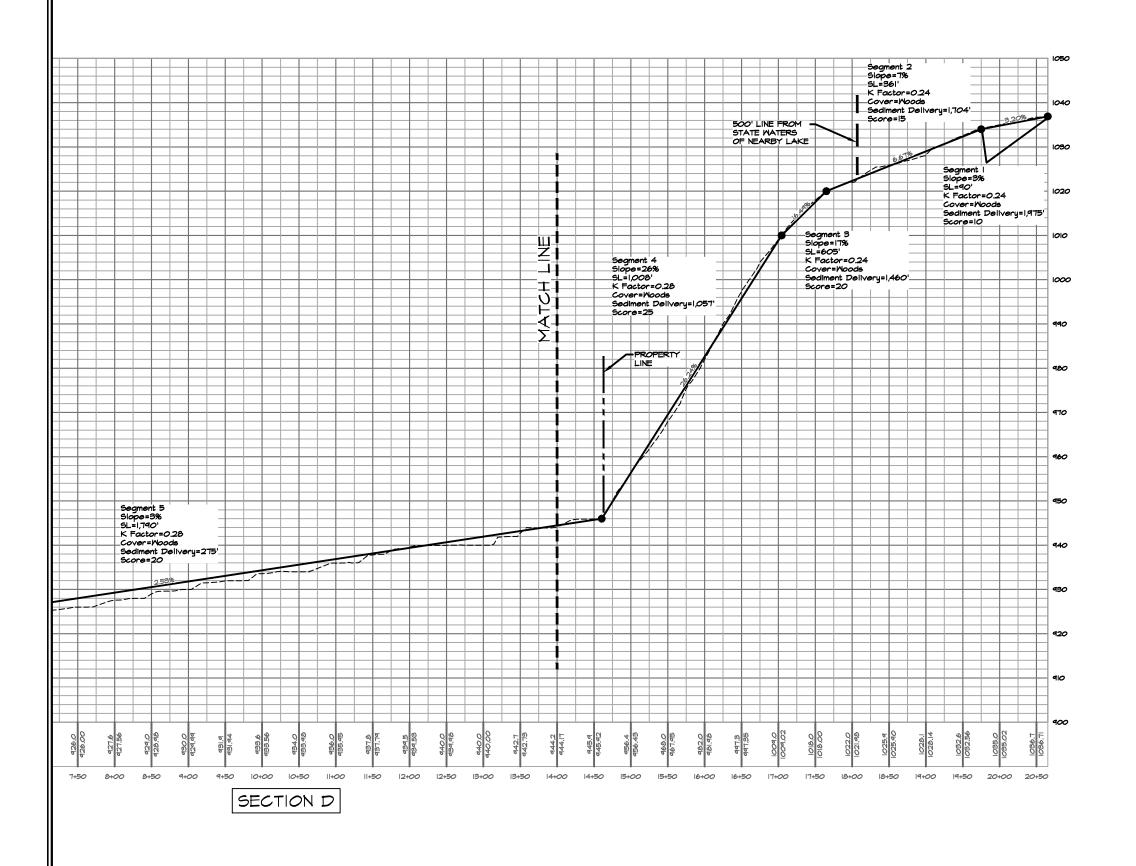
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FIELD BOOK #:	N/A
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HORIZONTAL

(IN FEET) 1 inch = 10 ft. VERTICAL





LOTS 239, 234, 270 I2th DISTRICT FORSYTH COUNTY, SEORGIA SECTION PROFILES COLEMAN



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	GSMCC LEVEL II CERTIFICATION NO. 31908 EXPIRES: 01-13-2016				
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CIVIL ENGINEERS & LAND SURVEYOR 1180 BELLS FERRY ROAD MARIETTA, GEORGIA 30068-60 PHONE: (678) 324-6192 FAX: (770) 694-6870 WWW. WBENGR. COM LSF000429 - PEF000714

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DATE UPDATED:	N/A
SURVEYED BY:	N/A
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DRAWN BY:	ZK
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FIELD BOOK #:	N/A
JOB NUMBER:	140713
FOLDER NUMBER:	140713
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