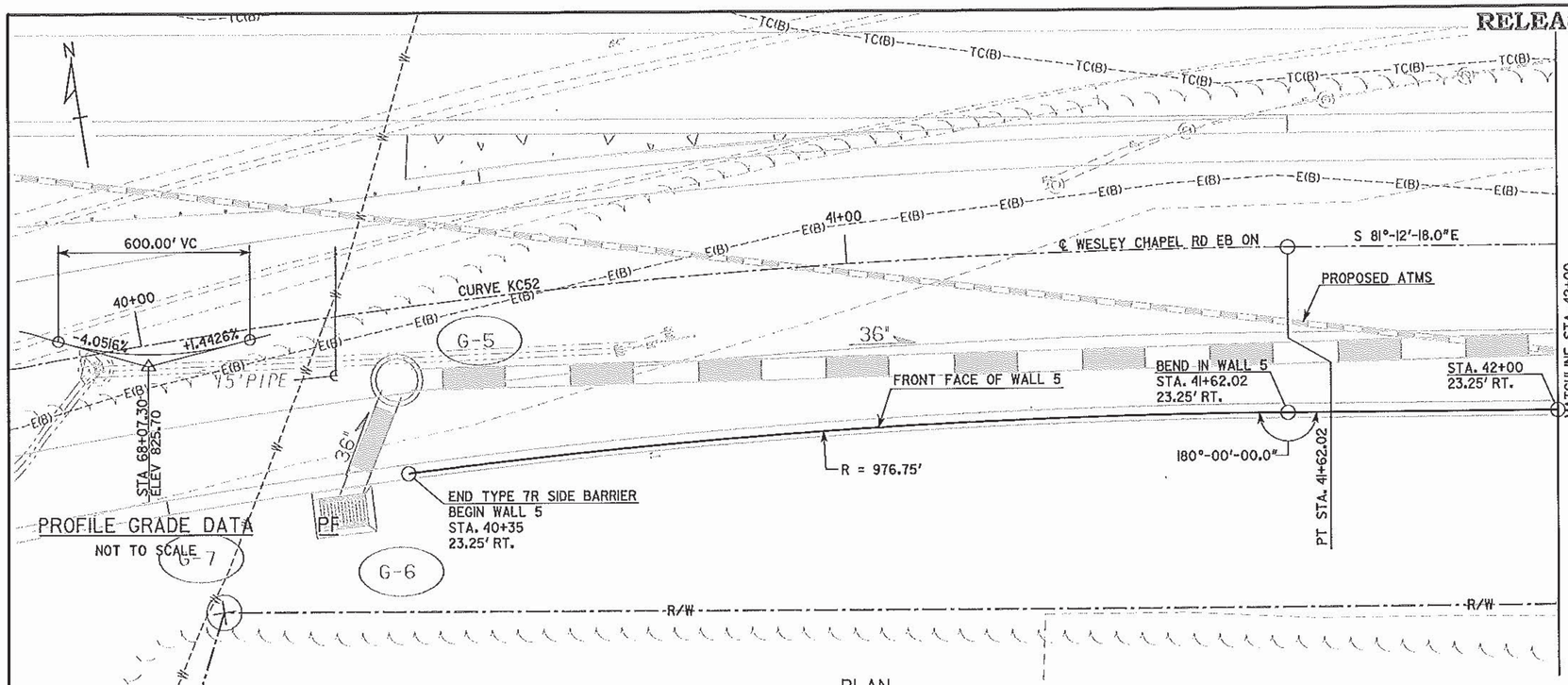
RELEASED FOR CONSTRUCTION: 12/05/11

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0009542	461	759



PROFILE GRADE DATA
NOT TO SCALE

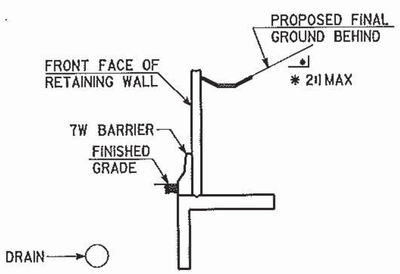
PLAN

WALL NO. 5 DESIGN DATA

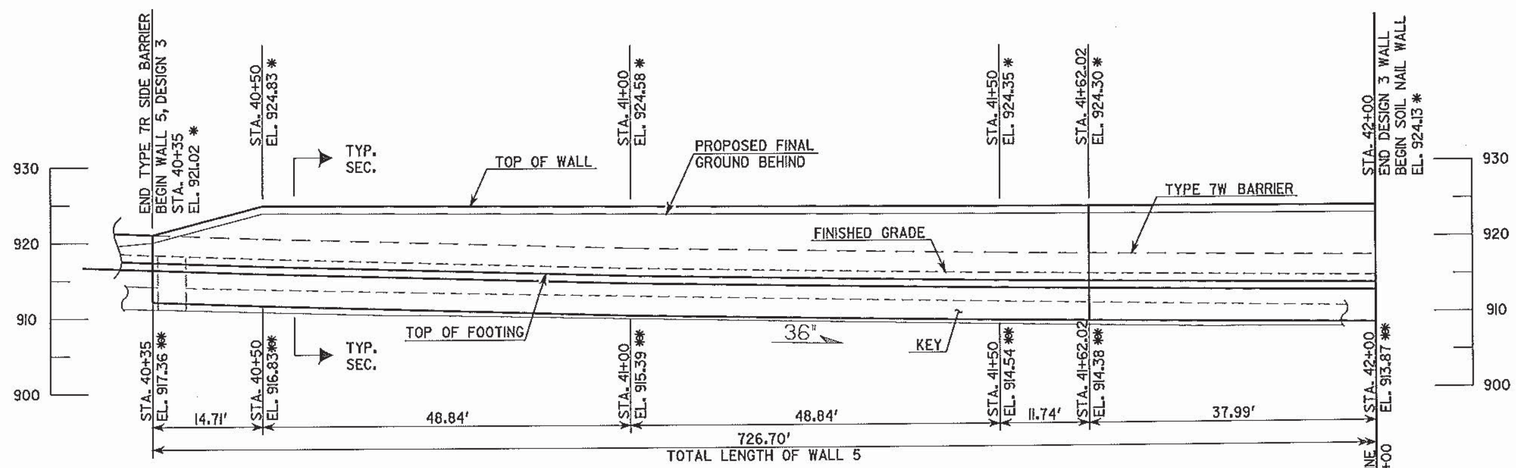
SPECIFICATIONS	AASHTO 17TH EDITION, 2002
CONCRETE	CLASS A, f'_c = 3,000 PSI
REINFORCEMENT STEEL	GRADE 60, f_y = 60,000 PSI
DESIGN SOIL PRESSURE	3000 PSF
COHESION	0 PSF
ANGLE OF INTERNAL FRICTION	30°
UNIT WEIGHT	120 PCF
COEFFICIENT OF SLIDING FRICTION	0.40

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	789	CY	CLASS A CONCRETE, RETAIN WALL
511-1000	48505	LB	BAR REINF STEEL



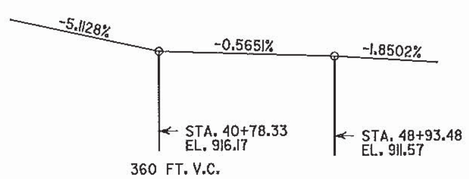
TYPCIAL SECTION
CIP WALL, SPECIAL DESIGN
SEE DRAWING 31-26 FOR DETAILS



ELEVATION
LOOKING AT BACK FACE OF WALL

HORIZONTAL CURVE DATA

CURVE KC52
P.I. STA. 40+12.81
Δ = 17°-13'-43"
D = 5°-43'-46"
R = 1000.00'
T = 151.49'
L = 300.70'



VERTICAL CURVE DATA
WESLEY CHAPEL RD EB ON

NOTES:
1. * ELEVATION OF TOP OF WALL AT BACK FACE, TYP.
2. ** ELEVATION AT TOP OF FOOTING, TYP.

12.5.11

GEORGIA REGISTERED NO. 24732 PROFESSIONAL ENGINEER ALBERT W. BOWMAN

WALL NO. 5

THE LPA GROUP
A UNIT OF MICHAEL BAKER CORPORATION

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENTERPRISE DRIVE
NORCROSS, GEORGIA 30092
(770) 263-5110

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

WALL PLAN AND ELEVATION - SOIL NAIL/CIP
I-20 CD LANES
DEKALB COUNTY 0009542

SCALE: 1" = 10'-0" DECEMBER 2011

DRAWING NO. 31-16
WALL SHEET 1 OF 4

BY	REVISIONS	DATE

DESIGNED BSB | CHECKED ANZ | REVIEWED WEJ/WMD
DRAWN BSB | DESIGN GROUP AWB | APPROVED BFR

12/20/2011 4:23:59 PM R:\123300\Walls\final\W5-01.dgn