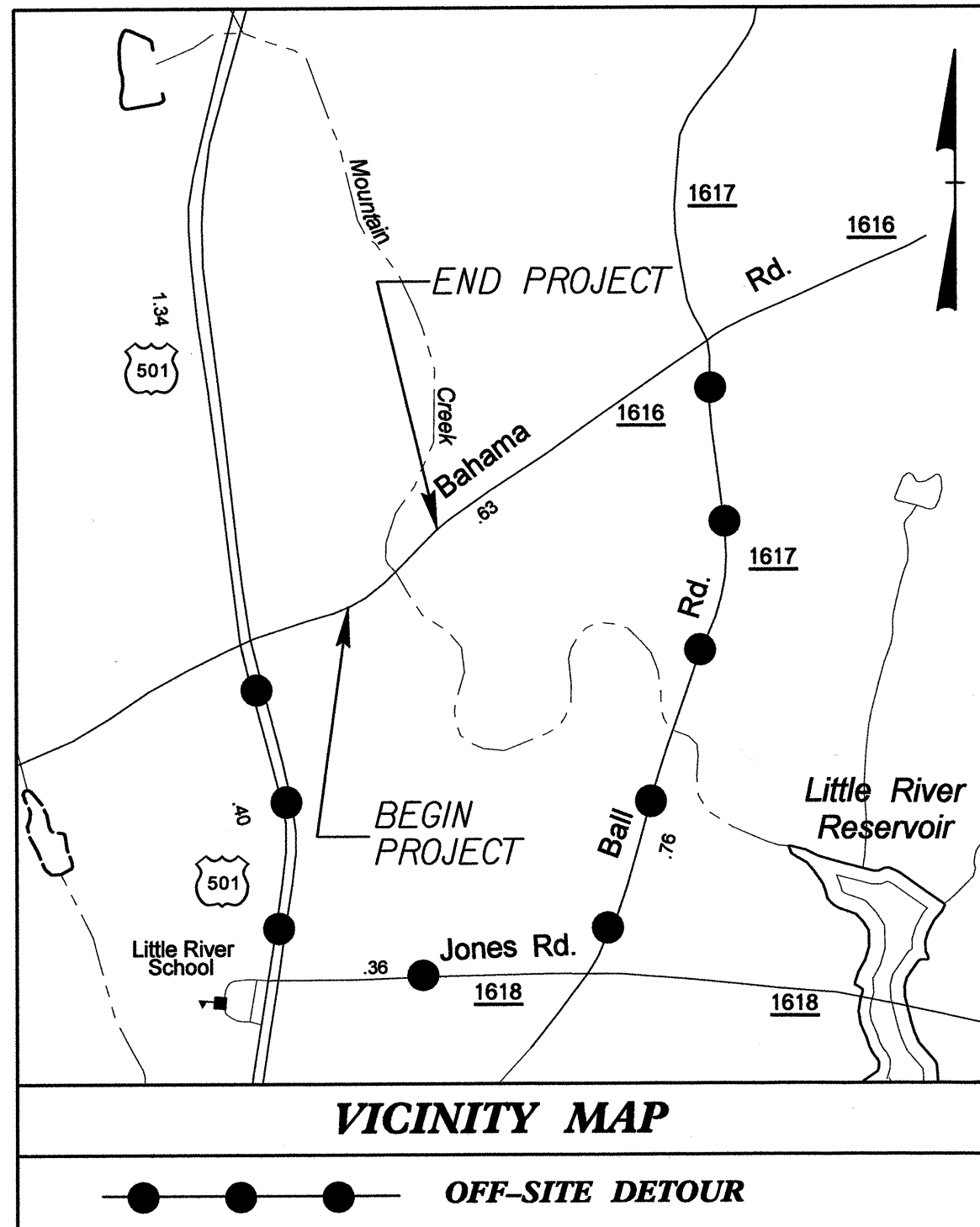


TIP PROJECT: B-4110

CONTRACT: C201490

SEE SHEET 1A FOR INDEX OF SHEETS
SEE SHEET 1B FOR CONVENTIONAL SYMBOLS

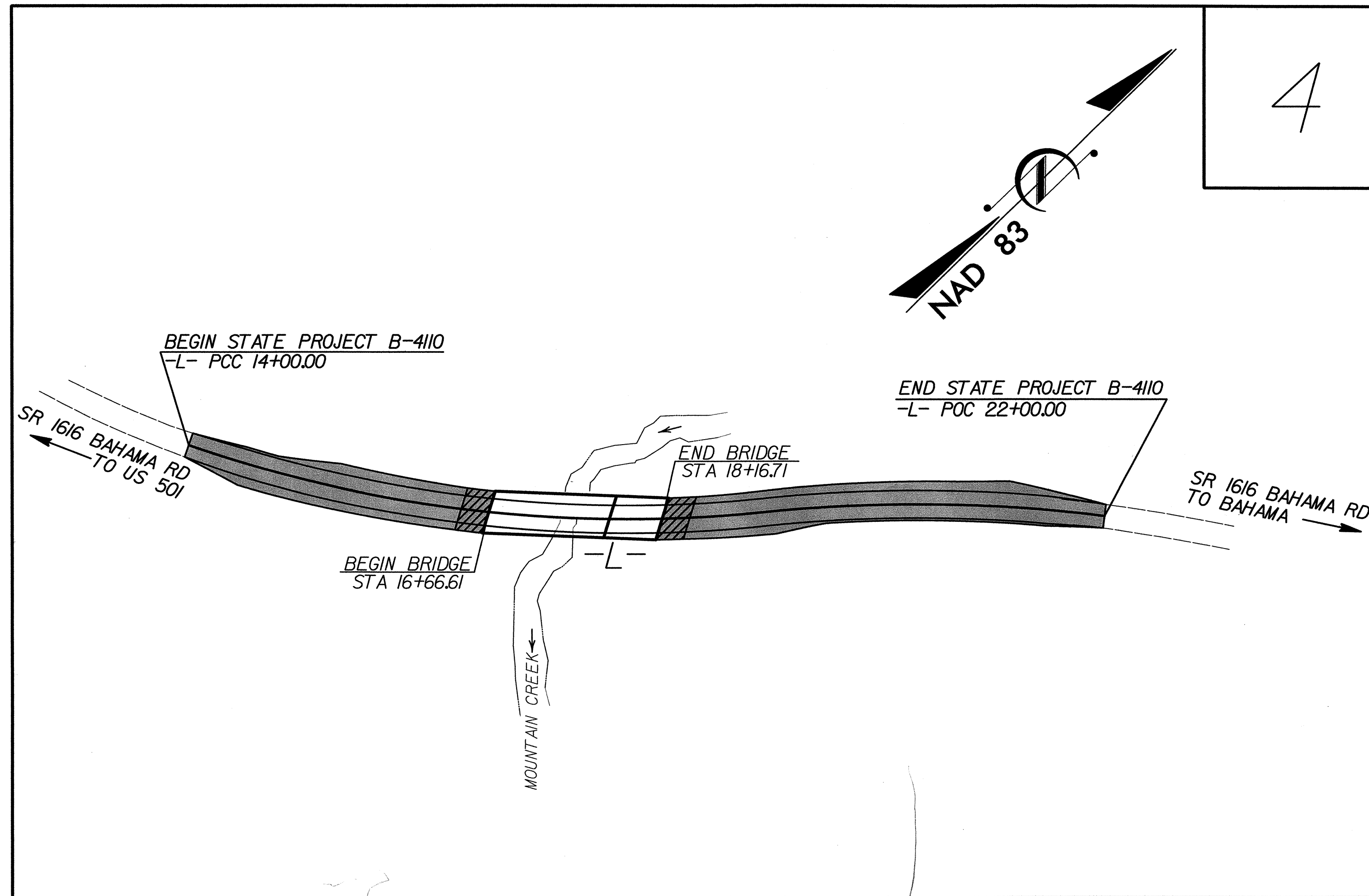


THE CONTRACTOR SHOULD NOTE THERE IS A WEIGHT RESTRICTION ON A BRIDGE ON SR 1617, THE DETOUR ROUTE.

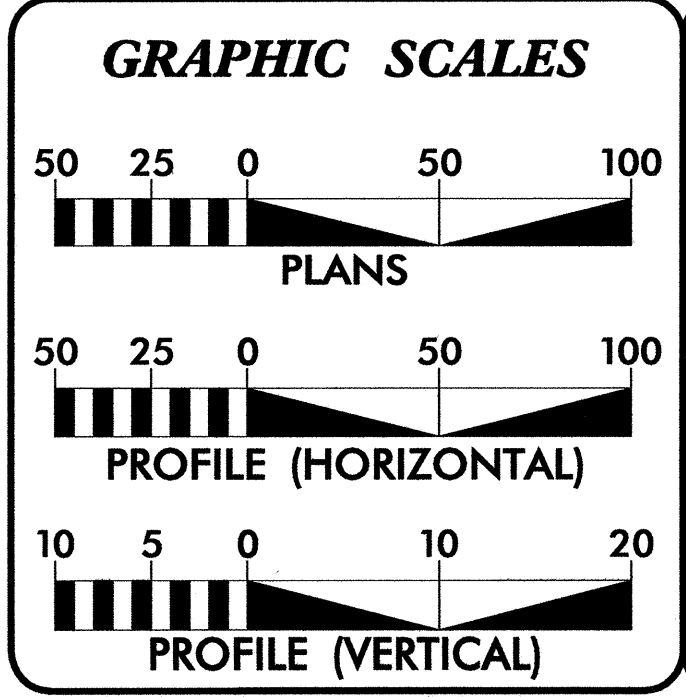
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DURHAM COUNTY

LOCATION: BRIDGE NO. 5 OVER MOUNTAIN CREEK AND APPROACHES ON SR 1616 (BAHAMA ROAD)
TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURE AND SIGNALS



NCDOT CONTACT: MALCOLM WATSON, PE, ENGINEERING COORDINATION, ROADWAY DESIGN UNIT



DESIGN DATA

ADT 2006	=	3750
ADT 2026	=	6750
DHV	=	13 %
D	=	60 %
T	=	3 % *
V	=	60 MPH
* TTST	1%	DUAL 2%

FUNC CLASS:
RURAL MINOR COLLECTOR

DESIGN EXCEPTIONS:
SAG VERTICAL CURVE K
SUPERELEVATION
HORIZONTAL SSD

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4110	=	0.124 MILES
LENGTH STRUCTURES TIP PROJECT B-4110	=	0.028 MILES
TOTAL LENGTH OF TIP PROJECT B-4110	=	0.152 MILES

Prepared In the Office of:
GIBSON ENGINEERS, PC
PO BOX 700
FUQUAY VARINA, N.C. 27526
PHONE 919-552-2253
FAX 919-552-2254

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 15, 2005

LETTING DATE:
APRIL 18, 2006

GIBSON ENGINEERS, PC

GLEND A. M. GIBSON, PE
PROJECT ENGINEER

MICHAEL PEKAREK, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

Jonathan L. Scarce
SIGNATURE: 2/27/06

ROADWAY DESIGN ENGINEER

Michael Pekarek
SIGNATURE: 1/26/06

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Carl McMillan
P.E.

STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED
DIVISION ADMINISTRATOR

DATE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4110	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33465.1.1	BRZ-1616(5)	P.E.	
33465.2.1	BRZ-1616(5)	ROW/UTL	
33465.3.1	BRZ-1616(5)	CONST	

1/25/2006 4:25:06 PM r:\work\proj\4110_rdy_tsh.dgn bphillips