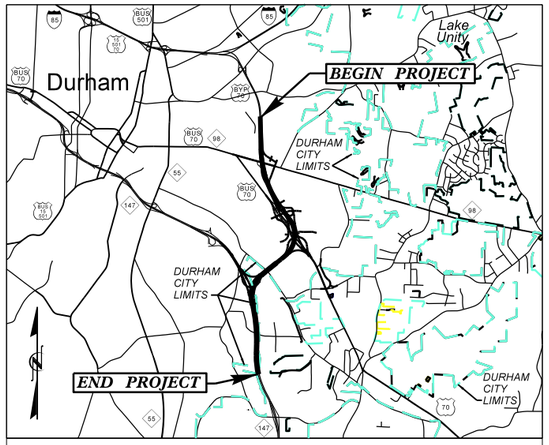
09/08/99

TIP PROJECT: U-0071

CONTRACT: C203394

17-FEB-2014 10:46
R:\Roadway\Proj\u0071_rdy_tsh.dgn
$$$$USERNAME$$$$

See Sheet 1-A For Index of Sheets



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

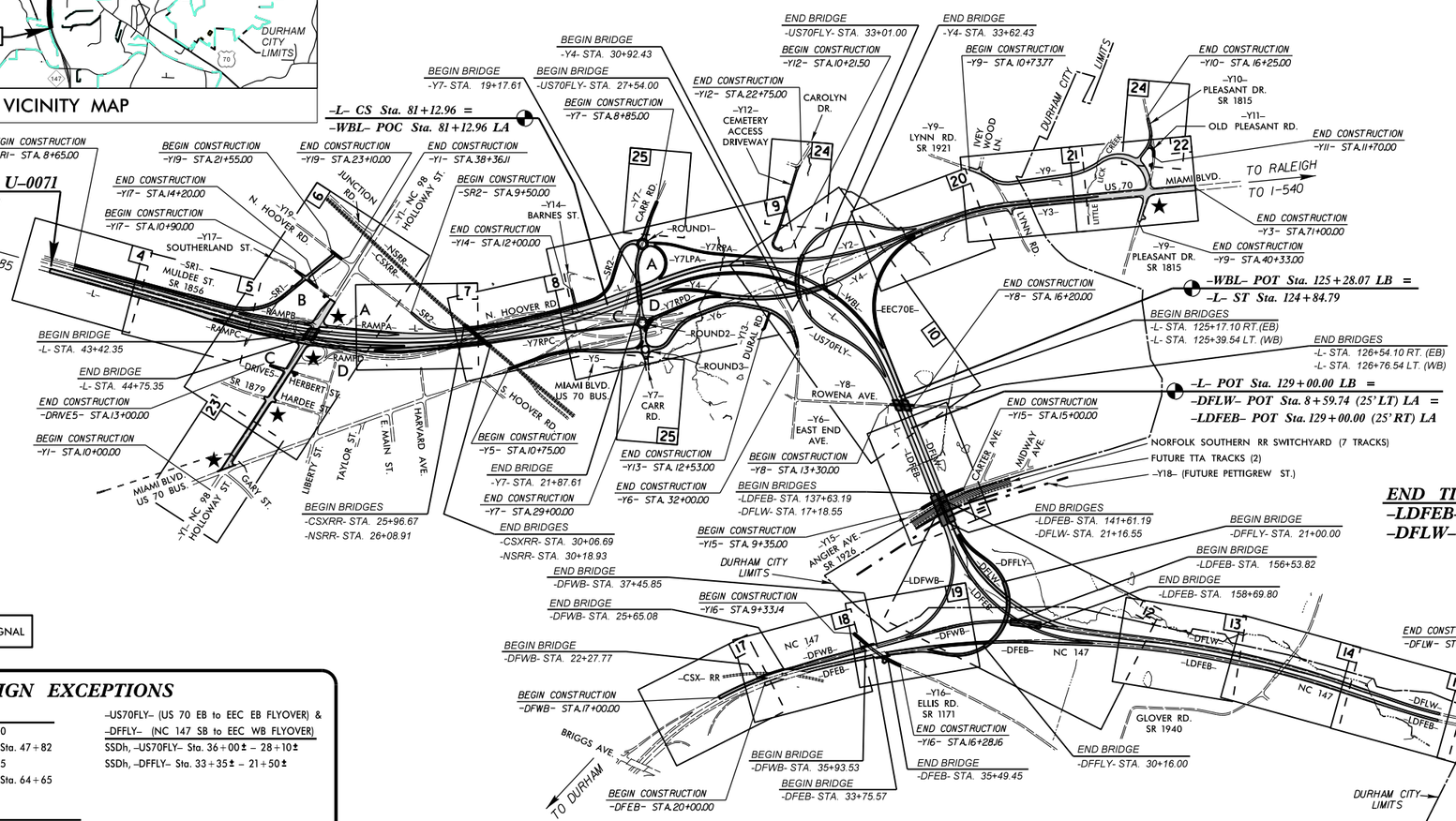
DURHAM COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-0071	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
34745.1.1	NHF-76-1(2)	PE
34745.2.8	NHF-76-1(2)	R/W, UTILITIES
34745.3.S2		CONSTRUCTION

LOCATION: DURHAM EAST END CONNECTOR
FROM NORTH OF NC 98 TO NC 147 (BUCK DEAN FREEWAY)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES, AND SIGNALS



PROPOSED / UPGRADED SIGNAL

DESIGN EXCEPTIONS

-Y3- (US 70, SOUTH MIAMI BLVD.)
SAG VERTICAL CURVE K, -Y3- Sta. 36+00
CREST VERTICAL CURVE K & SSDv, -Y3- Sta. 47+82
SAG VERTICAL CURVE K, -Y3- Sta. 57+55
CREST VERTICAL CURVE K & SSDv, -Y3- Sta. 64+65

-Y4- (EEC EB to US 70 EB RAMP)
CREST VERTICAL CURVE K, SSDh, & SSDv, -Y4- Sta. 30+85
SAG VERTICAL CURVE K, -Y3- Sta. 43+90

-US70FLY- (US 70 EB to EEC EB FLYOVER) &
-DFFLY- (NC 147 SB to EEC WB FLYOVER)
SSDh, -US70FLY- Sta. 36+00± - 28+10±
SSDh, -DFFLY- Sta. 33+35± - 21+50±

NCDOT CONTACT:

BRENDA L. MOORE, PE, CPM
PROJECT ENGINEER
ROADWAY DESIGN UNIT

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2015 = 65,700
ADT 2035 = 116,100
DHV = 11 %
D = 55 %
T = 14 % *
V = 70 MPH
* TTST = 8%, DUAL = 6%
FUNCT. CLASS. = INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-0071 = 3.789 mi.
LENGTH STRUCTURES TIP PROJECT U-0071 = 0.167 mi.
TOTAL LENGTH OF TIP PROJECT U-0071 = 3.956 mi.

LENGTH OF ROADWAY PROJECT BASED ON -L- AND -LDFEB-
LENGTH OF STRUCTURES PROJECT BASED ON -L- AND -LDFEB-

Prepared For:
DIVISION OF HIGHWAYS
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By:
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2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 30, 2012

LETTING DATE:
APRIL 15, 2014

BURKE EVANS, PE
PROJECT ENGINEER

ROBERT W. PORTER, JR, PE
KEVIN S. HUTCHENS, PE
PROJECT DESIGN ENGINEERS

HYDRAULICS ENGINEER

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY: ROGER S. WEADON PE 21656 ON DECEMBER 30, 2013 THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.

P.E.
SIGNATURE:

ROADWAY DESIGN ENGINEER

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