	REMOVAL OF EXISTING STRUCTURE	FOUNDATION EXCAVATION FOR BENT	ON REINFORCED ON CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	STRUCTURAL STEEL	HP 12 X 53 STEEL PILES		THREE BAR METAL RAIL	4"SLOPE PROTECTION	ELASTOMERIC BEARINGS	EVAZOTE JOINT SEALS	EXPANSION JOINT SEALS	ELECTRICAL CONDUIT SYSTEM
	LUMP SUM	LUMP SUM	SQ.FT.	SQ.FT.	CU.YDS.	LUMP SUM	LBS.	LBS.	APPROX.LBS.	NO.	LIN.FT.	LIN.FT.	SQ.YDS.	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM
SUPERSTRUCTURE			5,465	5,383		LUMP SUM			166,000			282.90		LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM
END BENT 1					9.8		1465			4	160		345				
BENT 1		LUMP SUM			46.9		6991	1023		16	960						
BENT 2		LUMP SUM			45.4		6718	879		16	880						
BENT 3		LUMP SUM			44.9		6602	892		16	720						
END BENT 2					9.9		1482			3	135		290				
TOTAL	LUMP SUM	LUMP SUM	5,465	5,383	156.9	LUMP SUM	23,258	2794	166,000	55	2855	282.90	635	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM

## NOTES

ASSUMED LIVE LOAD = HS 20 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED BY THE STRENGTH DESIGN METHOD AS SPECIFIED IN AASHTO STANDARD SPECIFICATIONS.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES FOR SEISMIC PERFORMANCE CATEGORY A.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR EROSION CONTROL MEASURES SEE EROSION CONTROL PLANS.

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-7 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.

THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.

FOR ELECTRICAL CONDUIT SYSTEM, SEE SPECIAL PROVISIONS.

IN ORDER TO FACILITATE A SMOOTH TRANSITION FROM THE EXISTING BRIDGE DECK TO THE PROPOSED DECK WIDENING, THE CONTRACTOR SHALL NOT BEGIN THE FINISHING PROCESS FOR THE DECK WIDENING UNTIL ALL CONCRETE HAS BEEN PLACED IN THAT SPAN. THIS DECK POUR PROCESS WILL BE REQUIRED FOR ALL SPANS.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS.

FOR FALSEWORK AND FORMS OVER OR ADJACENT TO TRAFFIC, SEE SPECIAL PROVISIONS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

PILES FOR END BENT NO.1, END BENT NO.2 AND BENT NOS. 1, 2 & 3 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 50 TONS EACH.

WHEN DRIVING PILES, THE MAXIMUM BLOW COUNT SHALL NOT BE EXCEEDED.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

PROJECT NO. U-3837

FORSYTH COUNTY

STATION: 21+64.07 -L-

SHEET 3 OF 3

SEAL 23926

1/10/05

DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE OVER I-40 ON
SR 3153 (HANES MALL BLVD.)
BETWEEN JONESTOWN RD.
AND STRATFORD RD.
(LEFT LANE WIDENING)

STATE OF NORTH CAROLINA

REVISIONS

BY: DATE: NO. BY: DATE: S-3

TOTAL SHEETS
78

BM #100 -BL- STA. 5+44.00, 428' RT., EL. 838.49'. R/R SPIKE SET IN JOINT ON TOP OF C&G IN ENTRANCE TO MOVIE THEATER ON KESTER MILL RD. -EXISTING € -Y1- — GUARDRAIL (TYP.) **PROPOSED** GUARDRAIL (ROADWAY PAY ITEM & DETAIL) \_\_STR. 1 (TYP.) EXISTING BRIDGE #436 GUARDRAIL TO STA. 21+64.07 -L-BE REMOVED STA. 12+15.35 -Y1-TO JONESTOWN RD. ┌─ Û -L-\_\_\_105°-18′-46′′ TO STRATFORD RD. ∠ STR. 2 FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS. LOCATION SKETCH PROPOSED WORK

DRAWN BY: D.G.ELY DATE: 7/22/04
CHECKED BY: K.W. ALFORD DATE: 8/2/04

STR. #1