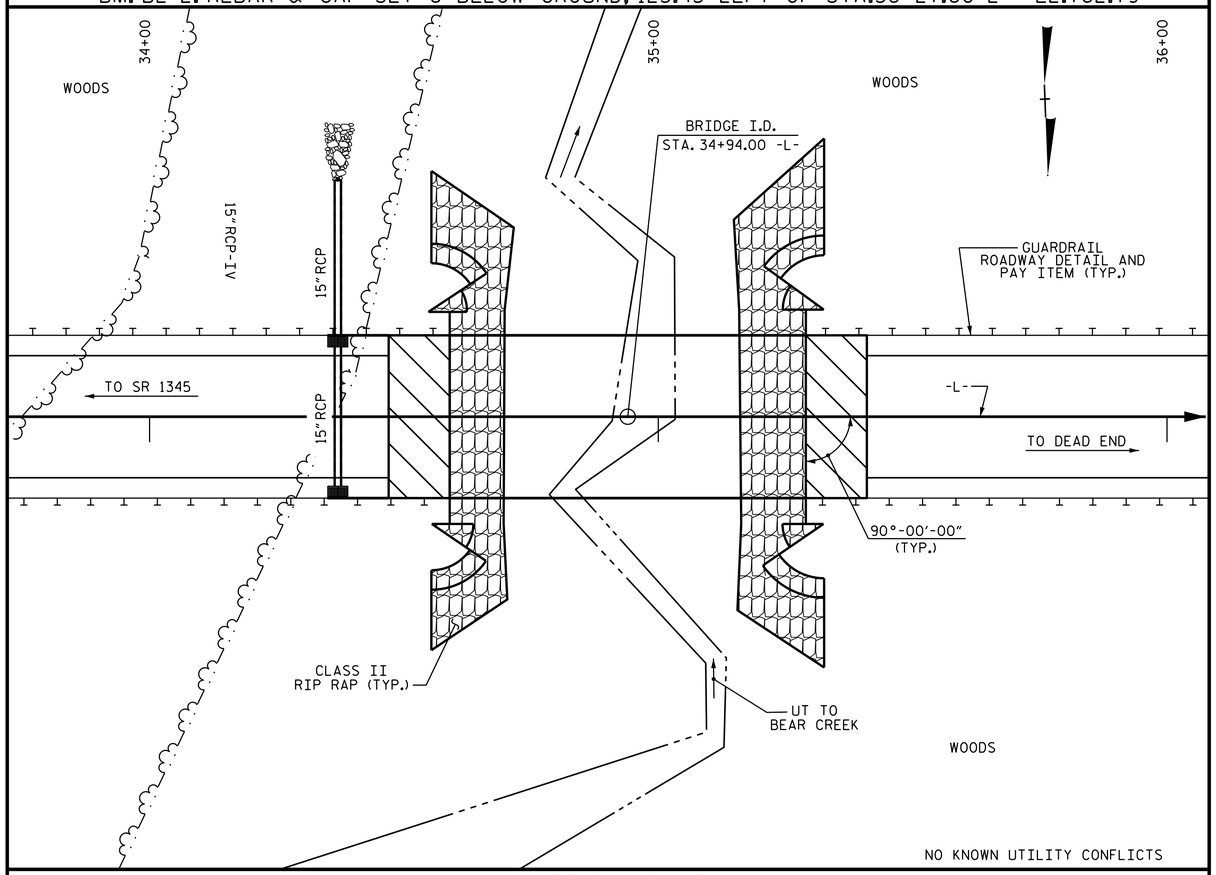
BM: BL-2: REBAR & CAP SET 6" BELOW GROUND, 123.43' LEFT OF STA.36+27.60-L- EL.762.79



LOCATION SKETCH

HYDRAULIC DATA

DESIGN DISCHARGE	= 280 C.F.S.
FREQUENCY OF DESIGN FLOOD	= 25 YR.
DESIGN HIGH WATER ELEVATION	= 754.8
DRAINAGE AREA	= 110 ACRES
BASE DISCHARGE (Q100)	= 450 C.F.S.
BASE HIGH WATER ELEVATION	= 755.63

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= N/A
FREQUENCY OF OVERTOPPING FLOOD	= 500 YR.+
OVERTOPPING FLOOD ELEVATION	= 763.5

NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18-EVALUATING SCOUR AT BRIDGES."

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

ASPHALT WEARING SURFACE IS INCLUDED IN ROADWAY QUANTITY ON ROADWAY PLANS.

FOUNDATION NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT 1 AND END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 85 TONS PER PILE.

DRIVE PILES AT END BENT 1 AND END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 142 TONS PER PILE.

TOTAL BILL OF MATERIAL

	PDA TESTING	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	HP 12 X 53 STEEL PILES		VERTICAL CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	3'-0" X 2'-0" PRESTRESSED CONCRETE CORED SLABS	
	EACH	CU. YDS.	LUMP SUM	LBS.	NO.	LIN. FT.	LIN. FT.	TONS	SQ. YDS.	LUMP SUM	NO.	LIN. FT.
SUPERSTRUCTURE			LUMP SUM				140.00			LUMP SUM	12	840.00
END BENT 1		23.0		2,806	7	265		95	105			
END BENT 2		23.0		2,806	7	355		120	135			
TOTAL	1	46.0	LUMP SUM	5,612	14	620	140.00	215	240	LUMP SUM	12	840.00

PROJECT NO. U-5540

DAVIE COUNTY

STATION: 34+94.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE OVER UT TO BEAR CREEK ON INDUSTRIAL DRIVE BETWEEN SR 1345 AND DEAD END

NORTH CAROLINA PROFESSIONAL SEAL 29048 ENGINEER RAMAN P. PATEL

Raman P. Patel
50D3EA046B8F40D...
9/16/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			13

DRAWN BY : R. P. PATEL DATE : 7-9-14
CHECKED BY : J. P. McCARTHA DATE : 7-22-14
DESIGN ENGINEER OF RECORD: R. P. PATEL DATE : 8-21-14

15-SEP-2014 11:59
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