

STATE	STATE PROJECT REFERENCE NO.	SHEET	TOTAL SHEETS
N.C.	SF-530162	1	5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE
SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. 17BP.2.R.21 (SF-530162) F.A. PROJ. _____
COUNTY LENOIR
PROJECT DESCRIPTION CULVERT NO. 162 ON SR 1913 (ELIJAH LOFTIN RD.) OVER MOTT SWAMP CREEK AT -L- STA. 13+60.15

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<u>SHEET</u>	<u>DESCRIPTION</u>
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CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING, AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES, AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6950. NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA ARE PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION, AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THIS PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

PROJECT: 17BP.2.R.21 ID: SF-530162

PERSONNEL

C.M. WRIKE

R.E. SMITH

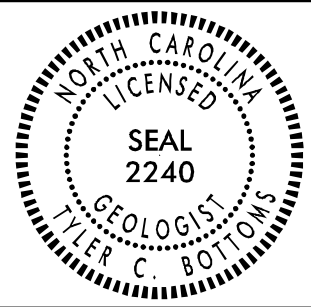
D.G. PINTER

INVESTIGATED BY T.C. BOTTOMS

CHECKED BY D.N. ARGENBRIGHT

SUBMITTED BY D.N. ARGENBRIGHT

DATE NOVEMBER 2012

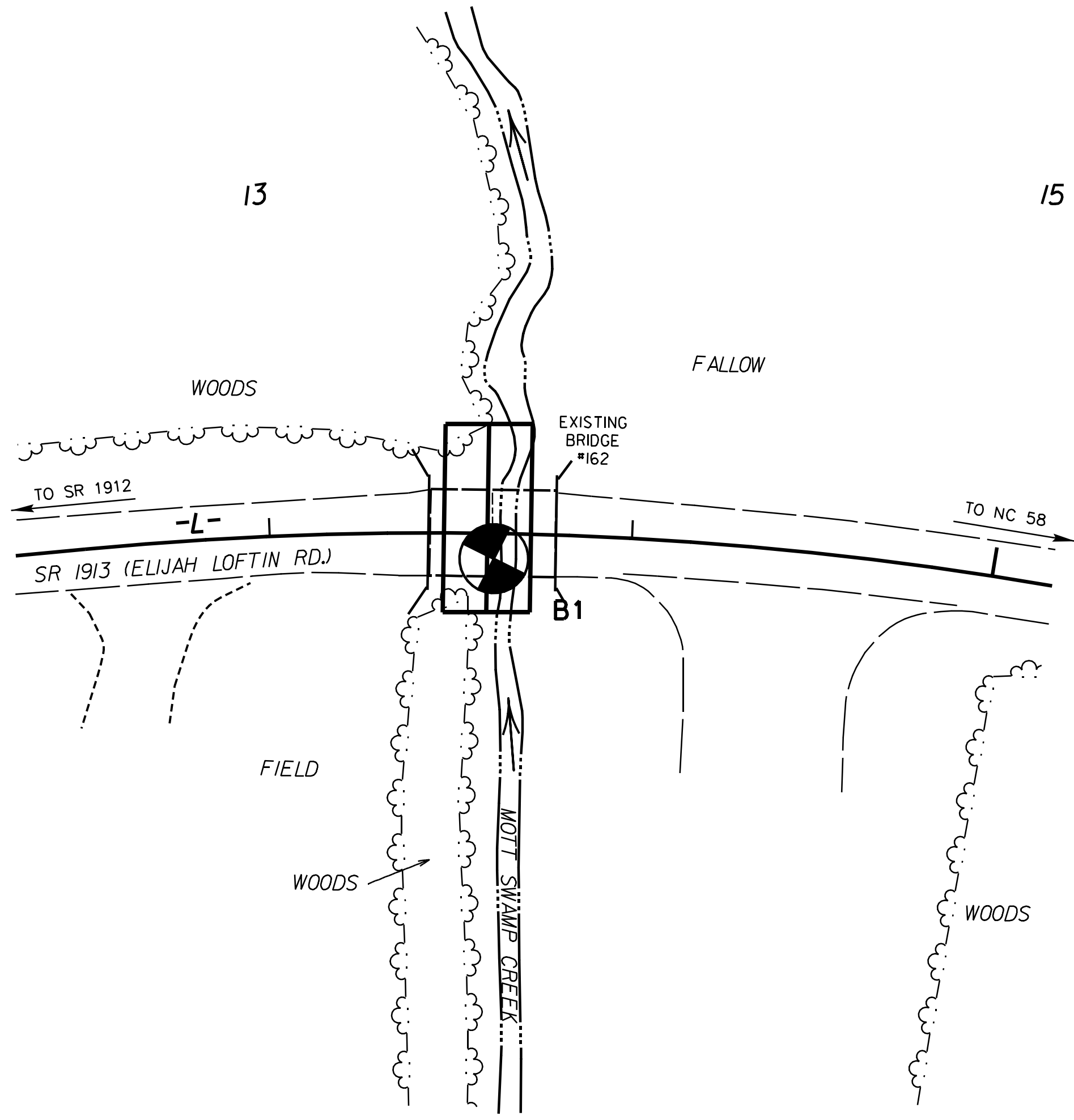
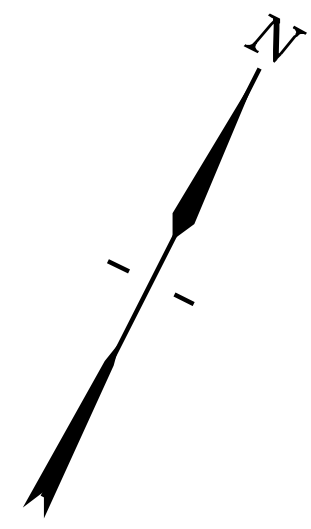


DRAWN BY: C.P. TURNER

NOTE - THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS BEING ACCURATE NOR IS IT CONSIDERED TO BE PART OF THE PLANS, SPECIFICATIONS, OR CONTRACT FOR THE PROJECT.

NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

SKEW = 90°

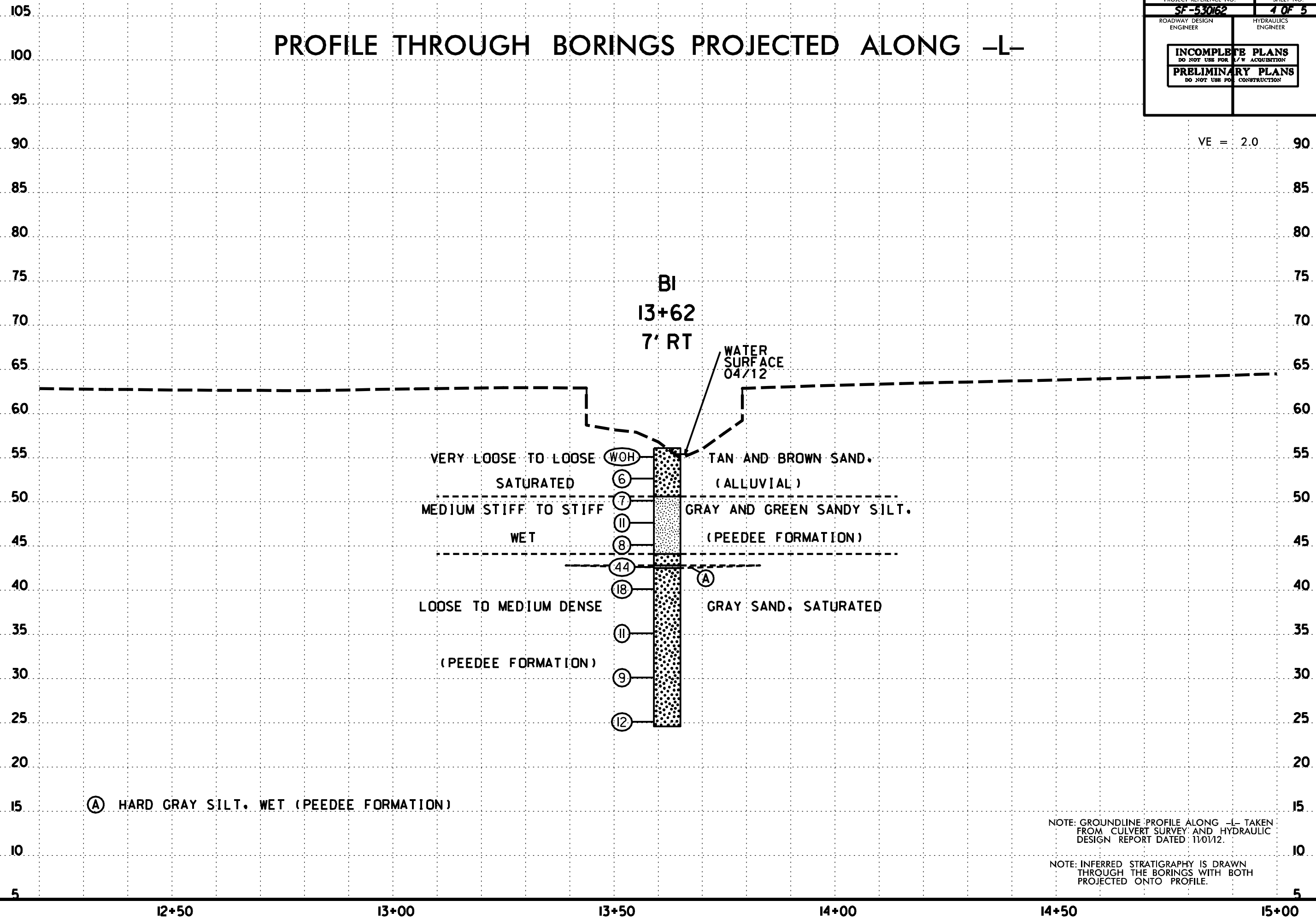


5/14/99

PROJECT REFERENCE NO. SF-530162	SHEET NO. 4 OF 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PROFILE THROUGH BORINGS PROJECTED ALONG -L-

VE = 2.0



SYTIME:EDN



NCDOT GEOTECHNICAL ENGINEERING UNIT

BORELOG REPORT

WBS 17BP.2.R.21		TIP SF-530162		COUNTY LENOIR		GEOLOGIST Wrike, C. M.									
SITE DESCRIPTION CULVERT NO. 162 ON -L- (SR 1913) OVER MOTT SWAMP CREEK							GROUND WTR (ft)								
BORING NO. B1		STATION 13+62		OFFSET 7 ft RT		ALIGNMENT -L-	0 HR. N/A								
COLLAR ELEV. 56.1 ft		TOTAL DEPTH 31.5 ft		NORTHING 530,159		EASTING 2,427,570	24 HR. N/A								
DRILLER G HAMMER EFF. DATE GFO1042CME-550 91% 05/23/2012				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic									
DRILLER Pinter, D.G.		START DATE 11/16/12		COMP. DATE 11/16/12		SURFACE WATER DEPTH 0.0ft									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100			ELEV. (ft)	DEPTH (ft)	
60															
55	56.1	0.0	WOH	WOH	WOH								56.1	0.0	WATER SURFACE (11/16/12)
	53.6	2.5	2	2	4										ALLUVIAL TAN AND BROWN SAND, SATURATED
50	51.1	5.0	3	3	4								50.6	5.5	COASTAL PLAIN GRAY AND GREEN SANDY SILT, WET (PEEDEE FORMATION)
	48.6	7.5	4	6	5										
45	46.1	10.0	3	3	5								44.1	12.0	COASTAL PLAIN GRAY SAND, SATURATED (PEEDEE FORMATION)
	43.6	12.5	5	37	7								42.8	13.3	COASTAL PLAIN GRAY SILT, WET (PEEDEE FORMATION)
40	41.1	15.0	4	7	11								42.5	13.6	COASTAL PLAIN GRAY SAND, SATURATED (PEEDEE FORMATION)
	36.1	20.0	3	5	6										
35	31.1	25.0	5	4	5										
	26.1	30.0	4	6	6										
25													24.6	31.5	Boring Terminated at Elevation 24.6 ft in Medium Dense Sand

NCDOT BORE DOUBLE_SF530162_GEO_CLVRT.GPJ_NC_DOT.GDT_4/10/13