

6/09/08

Soil Sample Test Results

SAMPLE NO.	STATION	DEPTH	ASSHTO CLASS	LI	PL	CS	PS	SH	CLAY	% PASSING (SIEVES)	% ORGANIC
SS-4	161+80	5.2M LT	A-7.5(20)	46	27	0.6	15.6	20	54.8	100	37
SS-4	163+00	4.7M LT	A-7.5(19)	45	15	0.9	42.7	20	50.4	100	53
SS-5	163+00	4.7M LT	A-7.5(19)	44	22	1.2	18.8	27.3	52.6	100	34.2

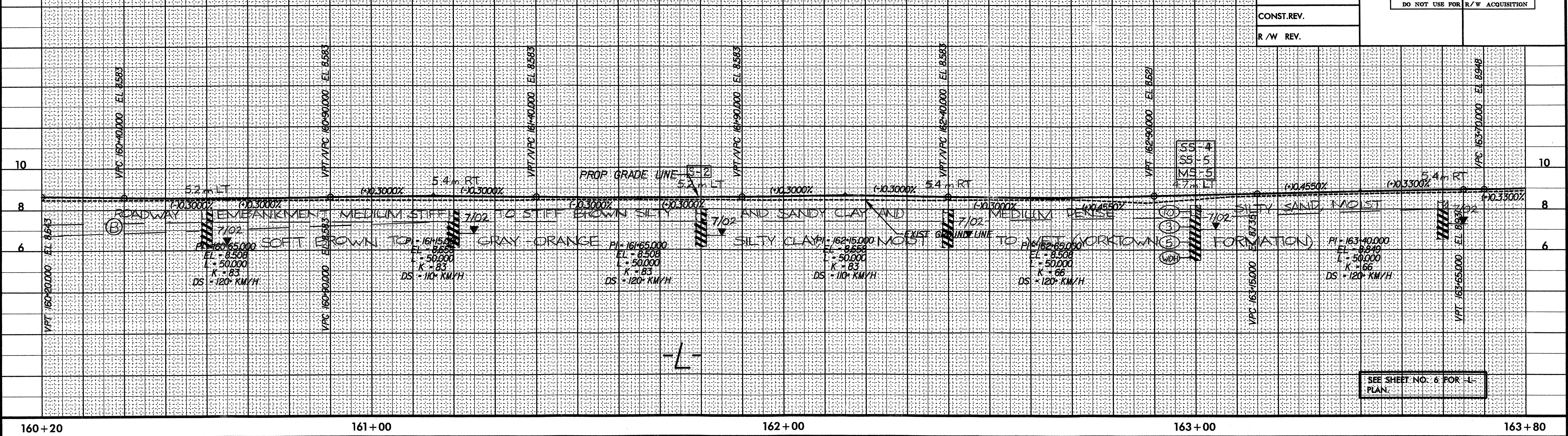
BM#2 EL 10.525
RR SPIKE IN 12" POPLAR
36.844m RT - L STA. 165+02.622

GREENHORNE & O'MARA, INC.
5965 CENTERVIEW DRIVE, SUITE 107
RALEIGH, NORTH CAROLINA 27606
(919) 851-1919



PROJECT REFERENCE NO. R-2539C	SHEET NO. 30
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
CONST. REV.	
R/W REV.	

ⓑ MEDIUM STIFF TO STIFF BROWN SILTY CLAY, MOIST (YORKTOWN FORMATION)



SEE SHEET NO. 6 FOR -L- PLAN.

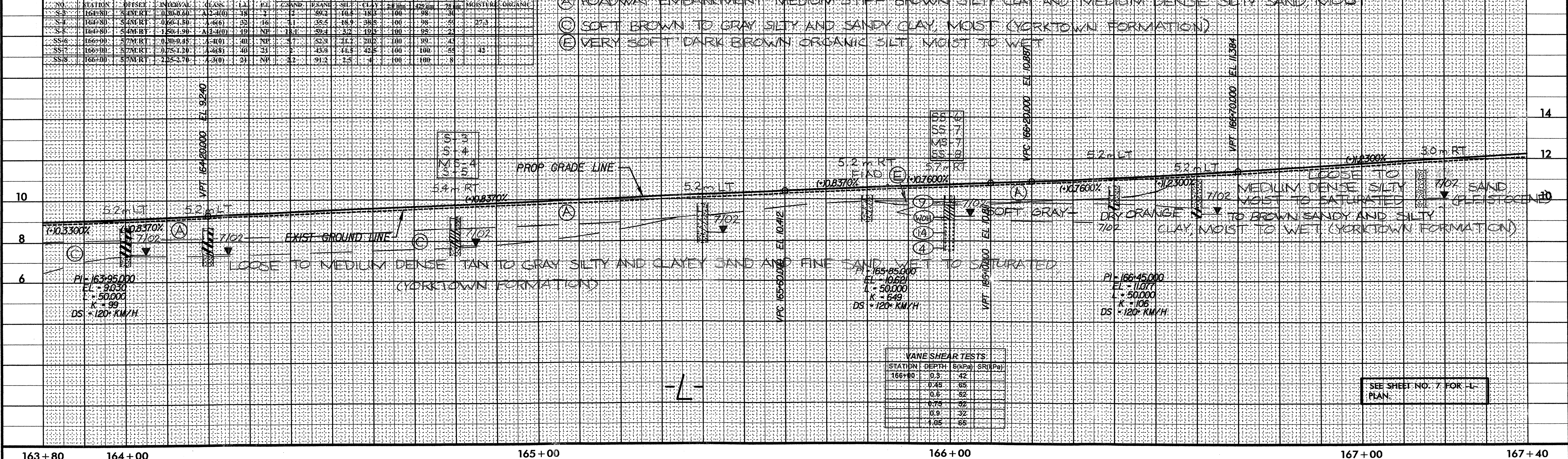
6/09/08

Soil Sample Test Results

SAMPLE NO.	STATION	DEPTH	ASSHTO CLASS	LI	PL	CS	PS	SH	CLAY	% PASSING (SIEVES)	% ORGANIC
SS-6	164+80	5.4M RT	A-2.5(10)	18	3	0.2	59.2	10.5	18.2	100	28
SS-6	164+80	5.4M RT	A-2.5(10)	19	16	1.1	35.5	18.9	28.8	100	27.3
SS-6	164+80	5.4M RT	A-3.0(10)	19	NR	18.4	39.4	3.2	19.8	100	95
SS-7	166+00	5.7M RT	A-8(10)	40	NR	5.7	52.0	11.1	20.2	100	4
SS-7	166+00	5.7M RT	A-8(10)	40	21	2	43.0	14.5	42.8	100	65
SS-8	166+00	5.9M RT	A-3(0)	21	NR	2.2	91.2	2.5	4	100	8

BM#2 EL 10.525
RR SPIKE IN 12" POPLAR
36.844m RT - L STA. 165+02.622

Ⓐ ROADWAY EMBANKMENT MEDIUM STIFF BROWN SILTY CLAY AND MEDIUM DENSE SILTY SAND, MOIST
Ⓒ SOFT BROWN TO GRAY SILTY AND SANDY CLAY, MOIST (YORKTOWN FORMATION)
Ⓔ VERY SOFT DARK BROWN ORGANIC SILT, MOIST TO WET



VANE SHEAR TESTS

STATION	DEPTH	S _u (kPa)	S _u (Pa)
166+00	0.3	42	
	0.45	65	
	0.6	52	
	0.75	32	
	0.9	32	
	1.05	55	

SEE SHEET NO. 7 FOR -L- PLAN.