6/09/98

PROJECT REFERENCE NO.	SHEET NO.
R-2539C	33
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.

METRIC

GREENHORNE & O'MARA, INC.
5565 CENTERVIEW DRIVE, SUITE 107
RALEIGH, NORTH CAROLINA 27606
(919) 851-1919

Soil Sample Test Results

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS	LL	PI	% BY WEIGHT CSAND	FSAND	SILT	CLAY	% PASSING (SIEVE) 2.0 mm	425 µm	75 µm	% MOISTURE	% ORGANIC
SS-19	182+84	4.7M LT.	0.30-0.45	A-2-4(0)	21	NP	7.5	72.8	9.7	4.3	100	99	23		
SS-20	182+84	4.7M LT.	0.75-1.20	A-2-4(0)	20	3	7.3	66.6	5.9	20.2	100	99	28		
SS-21	182+84	4.7M LT.	1.80-1.95	A-3(0)	22	NP	0.7	93.3	0.9	5.1	100	100	7		
SS-22	182+84	4.7M LT.	2.25-2.70	A-2-4(0)	23	5	8.3	64.9	10.2	4.2	100	98	30	36.1	
S-15	184+63	4.7M RT.	0.30-1.70	A-2-4(0)	21	NP	4.7	80.5	4.7	0.1	100	100	17		
S-16	184+63	4.7M RT.	1.70-1.90	A-3(0)	26	8	1	50	20.7	22.3	100	100	50		

BM#5 EL. 5.048
RR SPIKE IN 24" PINE
51.365m LT. -L- STA. 187+23.477

Ⓐ ROADWAY EMBANKMENT LOOSE TO MEDIUM DENSE BROWN SILTY SAND, MOIST
Ⓒ SOFT TAN TO BROWN SANDY SILT, MOIST (PLEISTOCENE)

PROP GRADE LINE
EXIST GROUND LINE
-L-

VERY LOOSE TO LOOSE BROWN TO GRAY FINE TO COARSE SAND AND SILTY SAND MOIST TO SATURATED (PLEISTOCENE)

SS-19 SS-20 SS-21 SS-22 MS-23

S-15 S-16

PI = 182+00.000 EL = 5.377 L = 50.000 K = 77 DS = 110+ KM/H
VPT 182+25.000 EL 5.250
PI = 183+20.000 EL = 4.957 L = 50.000 K = 77 DS = 120+ KM/H
VPT/VPC 183+45.000 EL 5.032
PI = 183+70.000 EL = 5.101 L = 50.000 K = 77 DS = 110+ KM/H
VPC 182+95.000 EL 5.045
VPC 184+15.000 EL 4.950
VPT 183+95.000 EL 4.820
PI = 184+40.000 EL = 4.862 L = 50.000 K = 77 DS = 120+ KM/H
VPT/VPC 184+65.000 EL 4.917
PI = 184+90.000 EL = 5.018 L = 50.000 K = 82 DS = 110+ KM/H
VPC 185+25.000 EL 4.904
VPT 185+15.000 EL 4.845

(-)0.3000% (-)0.3500% (+)0.3500% (+)0.3000% (-)0.3500% (+)0.3000% (-)0.3100%

6.5m RT 4.7m LT 4.7m RT 4.7m LT 4.7m RT 4.7m LT

7/02

SEE SHEET NO. 12 FOR -L- PLAN.

181+80 182+00 183+00 184+00 185+00 185+40

Soil Sample Test Results

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS	LL	PI	% BY WEIGHT CSAND	FSAND	SILT	CLAY	% PASSING (SIEVE) 2.0 mm	425 µm	75 µm	% MOISTURE	% ORGANIC
SS-23	185+83	5.2M RT	0.30-0.45	A-2-4(0)	21	2	8	66.2	11.6	4.2	98	96	28		
SS-24	185+83	5.2M RT	1.50-1.95	A-2-4(0)	19	NP	9.9	78.1	5.9	6.1	100	100	14		
SS-25	185+83	5.2M RT	2.25-2.70	A-2-4(0)	25	4	5.3	68	19.6	9.2	100	99	51	35.9	

BM#5 EL. 5.048
RR SPIKE IN 24" PINE
51.365m LT. -L- STA. 187+23.477

Ⓐ ROADWAY EMBANKMENT LOOSE TO MEDIUM DENSE BROWN SILTY SAND, MOIST

PROP GRADE LINE
EXIST GROUND LINE
-L-

VERY LOOSE TO LOOSE BROWN TO GRAY SILTY SAND CLAYEY SAND, MOIST TO SATURATED (PLEISTOCENE)

SS-23 SS-24 SS-25 MS-26

PI = 185+50.000 EL = 4.826 L = 50.000 K = 77 DS = 120+ KM/H
VPT 185+75.000 EL 4.911
PI = 186+95.000 EL = 5.282 L = 90.000 K = 60 DS = 100 KM/H
VPC 186+95.000 EL 5.282
PI = 187+10.000 EL = 5.366 L = 90.000 K = 60 DS = 100 KM/H
VPT 187+35.000 EL 5.241
VPC 187+45.000 EL 5.191
PI = 187+70.000 EL = 5.066 L = 50.000 K = 83 DS = 120 KM/H
VPT/VPC 187+95.000 EL 5.141
PI = 188+20.000 EL = 5.216 L = 50.000 K = 83 DS = 110+ KM/H
VPC 188+45.000 EL 5.141
VPT 188+95.000 EL 5.141

(-)0.3100% (+)0.3375% (+)0.3375% (-)0.5000% (-)0.5000% (+)0.3000% (+)0.3000% (-)0.3000%

5.2m RT 4.7m LT 4.7m RT 5.0m RT 5.0m LT

7/02

SEE SHEET NO. 13 FOR -L- PLAN.

185+40 186+00 187+00 188+00 189+00