6/09/20

BM#3 EL 13.429
NAIL IN PP 5CQ08
22.324m LT. -Y- STA. 11+23.974

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

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2539C	31

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.

Soil Sample Test Results

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 2.0 mm	0.5 mm	0.25 mm	% MOISTURE	% ORGANIC
SS-6	167+37	5.3M LT	0.30-1.90	A-2-4(0)	23	NP	18	72	6.1	3.1	100	98	68		
SS-9	169+93	7.0M RT	0.30-0.45	A-2-4(0)	19	NP	4.5	83.4	3.8	9.1	100	96	43		
SS-10	169+93	7.0M RT	1.50-1.95	A-3(0)	22	NP	17.8	81.6	1.1	0	100	99	1		

Ⓓ ARTIFICIAL FILL LOOSE BROWN TO GRAY SILTY SAND, MOIST

S-6
10m LT 10.3m LT
(+)1.2300%
7/02
7/02
LOOSE TO MEDIUM
VPC: 167+15.000 EL: 12.876

10.1m LT
(+)1.2300%
(-)0.3000%
PROP. GRADE LINE
8m RT
7/02
DENSE ORANGE-BROWN TO GRAY SILTY SAND AND SAND
EXIST. GROUND LINE
DRY
7/02
VPT: VPC: 169+15.000 EL: 14.387

PI = 168+45.000
EL = 13.537
L = 140.000
K = 82
DS = 110 KM/H

-L-

(-)0.3000%
10.2m LT (+)1.3900%
SS-9
SS-10
7m LT
VPT: VPC: 169+95.000 EL: 15.695
7/02
MOIST TO SATURATED
(PLEISTOCENE)
9m LT
(+)1.3900%
(-)1.7600%
7/02
VPC: 170+40.000 EL: 16.921
VPT: 171+00.000 EL: 17.926

PI = 169+50.000
EL = 15.228
L = 70.000
K = 64
DS = 100 KM/H

PI = 170+70.000
EL = 11.554
L = 60.000
K = 162
DS = 120 KM/H

SEE SHEET NO. 8 FOR -L- PLAN.

167+40 | 168+00 | 169+00 | 170+00 | 171+00

BM#3 EL 13.429
NAIL IN PP 5CQ08
22.324m LT. -Y- STA. 11+23.974

Soil Sample Test Results

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) 2.0 mm	0.5 mm	0.25 mm	% MOISTURE	% ORGANIC
SS-7	171+27	5.3M LT	0.30-1.90	A-2-4(0)	26	NP	18.2	70.6	6.3	7.1	100	98	68		
SS-11	172+94	5.0M RT	0.45-0.75	A-2-4(0)	23	NP	21.5	67	4.3	5.1	100	97	72	30.2	
SS-12	173+36	5.0M RT	2.25-2.70	A-3(0)	20	NP	19.6	80	0.4	0	100	98	1		

Ⓐ ROADWAY EMBANKMENT MEDIUM DENSE BROWN SILTY SAND, MOIST

VPT: VPC: 171+08.000 EL: 10.885
6.2m RT
(-)1.7600%
7/02
LOOSE TO MEDIUM DENSE SILTY AND
(PLEISTOCENE)
VPT: 171+68.000 EL: 10.112
S-7
5.5m LT
(+)0.8160%
EXIST. GROUND LINE
7/02
VPC: 172+05.000 EL: 9.380

PI = 171+38.000
EL = 10.857
L = 60.000
K = 84
DS = 120 KM/H

PROP. GRADE LINE
4.8m RT
(+)0.8160%
(-)1.1600%
7/02
CLAYEY SAND AND
SS-11
MS-11
SS-12
5m RT
VPT: VPC: 173+05.000 EL: 8.723
(6)
(4)
(6)
(4)

PI = 172+60.000
EL = 9.361
L = 110.000
K = 320
DS = 120 KM/H

-L-

4.7m RT
(-)1.1600%
(-)0.9500%
7/02
FINE SAND, MOIST TO SATURATED
VPT: VPC: 173+85.000 EL: 7.995
5.2m LT
(-)1.4500%
7/02
MEDIUM STIFF GRAY SILTY
(PLEISTOCENE)
VPC: 174+35.000 EL: 7.385
VPT: 174+85.000 EL: 7.095

PI = 173+50.000
EL = 8.317
L = 70.000
K = 333
DS = 120 KM/H

PI = 174+10.000
EL = 7.742
L = 50.000
K = 100
DS = 120 KM/H

SEE SHEET NO. 9 FOR -L- PLAN.

171+00 | 172+00 | 173+00 | 174+00 | 174+60