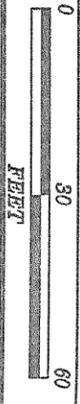
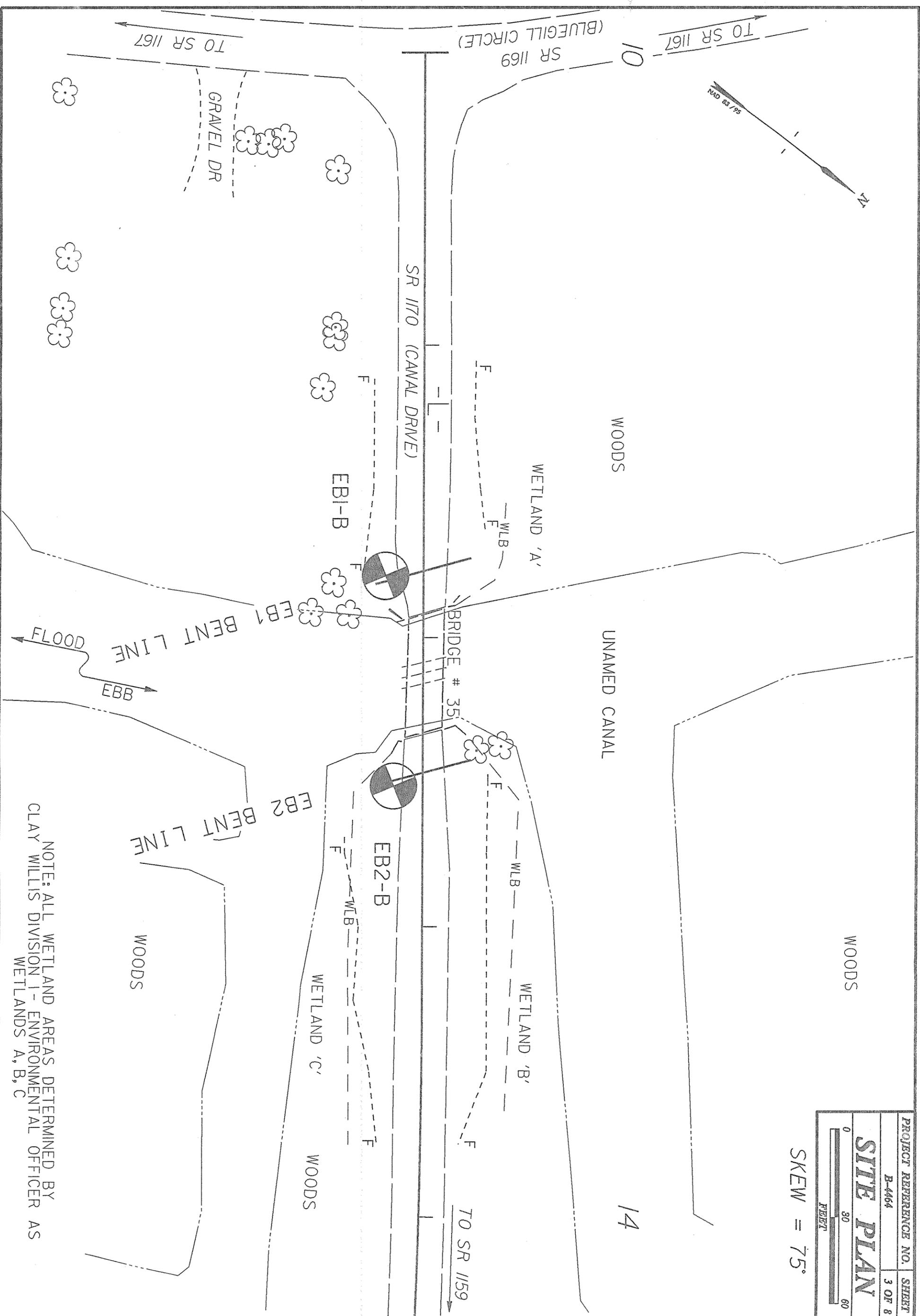


SITE PLAN



SKREW = 75°



NOTE: ALL WETLAND AREAS DETERMINED BY CLAY WILLIS DIVISION I- ENVIRONMENTAL OFFICER AS WETLANDS A, B, C



NCDOT BORE DOUBLE B-4464 GEO_CHOWAN 35.GPJ NC_DOT.GDT 7/28/11

WBS 38377.1.1		TIP B-4464		COUNTY CHOWAN		GEOLOGIST Agenbright, D. N.	
SITE DESCRIPTION BRIDGE NO. 35 ON L- (SR 1170) OVER A CANAL		STATION 12+52		OFFSET 10 ft RT		GROUND WTR (ft) N/A	
BORING NO. EB2-B		TOTAL DEPTH 119.3 ft		NORTHING 834.635		EASTING 2,715,704	
COLLAR ELEV. 4.9 ft		DRILL RIG/HAMMER EFF./DATE TER255 DIEDRICH D-50 77% 07/15/2011		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic	
DRILLER Contract Driller		START DATE 07/19/11		COMP. DATE 07/19/11		SURFACE WATER DEPTH N/A	
ELEV (ft)	DRIVE DEPTH (ft)	BLOW COUNT	BLOWS PER FOOT	SAMP. NO.	MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
5	4.9	7	13	9		GROUND SURFACE	0.0
	2.0	4	4	2	SS-12	ROADWAY EMBANKMENT TAN SANDY SILT, MOIST TO WET	6.9
	-3.0	4	4	2	SS-13	ALLUVIAL GRAY SANDY SILT WITH WOOD, SAT.	9.9
	-8.0	4	4	2	SS-14	ALLUVIAL BLACK MUCK (ORGANIC 36.7%), SAT.	11.9
	-13.0	4	4	2	SS-15	COASTAL PLAIN GRAY SAND WITH SHELL FRAGMENTS, (YORKTOWN FORMATION)	16.1
	-18.0	4	4	2	SS-16	COASTAL PLAIN GRAY SANDY CLAY WITH SHELL FRAGMENTS, (YORKTOWN FORMATION)	21.0
	-22.9	4	4	2	SS-17	COASTAL PLAIN GRAY SANDY CLAY WITH SHELL FRAGMENTS, (YORKTOWN FORMATION)	25.9
	-27.9	4	4	2	SS-18	COASTAL PLAIN GRAY SANDY CLAY WITH SHELL FRAGMENTS, (YORKTOWN FORMATION)	30.8
	-32.9	4	4	2	SS-19	COASTAL PLAIN GRAY SANDY CLAY WITH SHELL FRAGMENTS, (YORKTOWN FORMATION)	35.7
	-37.9	4	4	2	SS-20	COASTAL PLAIN GRAY SANDY CLAY WITH SHELL FRAGMENTS, (YORKTOWN FORMATION)	40.6
	-42.9	4	4	2			45.5
	-47.9	4	4	2			50.4
	-52.9	4	4	2			55.3
	-57.9	4	4	2			60.2
	-62.9	4	4	2			65.1
	-67.9	4	4	2			70.0
	-72.9	4	4	2			74.9
	-75	4	4	2			77.8

WBS 38377.1.1		TIP B-4464		COUNTY CHOWAN		GEOLOGIST Agenbright, D. N.	
SITE DESCRIPTION BRIDGE NO. 35 ON L- (SR 1170) OVER A CANAL		STATION 12+52		OFFSET 10 ft RT		GROUND WTR (ft) N/A	
BORING NO. EB2-B		TOTAL DEPTH 119.3 ft		NORTHING 834.635		EASTING 2,715,704	
COLLAR ELEV. 4.9 ft		DRILL RIG/HAMMER EFF./DATE TER255 DIEDRICH D-50 77% 07/15/2011		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic	
DRILLER Contract Driller		START DATE 07/19/11		COMP. DATE 07/19/11		SURFACE WATER DEPTH N/A	
ELEV (ft)	DRIVE DEPTH (ft)	BLOW COUNT	BLOWS PER FOOT	SAMP. NO.	MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
	-75	4	4	2			79.8
	-77.9	4	4	2			81.7
	-80	4	4	2	SS-21	COASTAL PLAIN GRAY SAND WITH SHELL FRAGMENTS, (YORKTOWN FORMATION)(continued)	83.6
	-82.9	4	4	2			85.5
	-85	4	4	2			87.4
	-87.9	4	4	2			89.3
	-90	4	4	2			91.2
	-92.9	4	4	2			93.1
	-95	4	4	2			95.0
	-97.9	4	4	2			96.9
	-100	4	4	2			98.8
	-102.9	4	4	2	SS-22		100.7
	-105	4	4	2			102.6
	-107.9	4	4	2			104.5
	-110	4	4	2	SS-23		106.4
	-112.9	4	4	2			108.3
	-114.4	4	4	2			109.8

Boring Terminated at Elevation -114.4 ft in medium dense sand.

38377.1.1
 B-4464
 BRIDGE NO. 35 ON SR 1170 (CANAL STREET) OVER A CANAL AT -L- STA. 12+12.50

EB1-B SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C.SAND	F.SAND	SILT	CLAY	10	40			200
SS-1	13RT	11+79	2.2-3.7	A-4(2)	25	8	12.2	30.3	31.2	26.4	93	86	62	-	-
SS-2	13RT	11+79	7.2-8.7	A-2-4(0)	25	6	27.8	49.3	2.5	20.3	98	81	24	-	-
SS-3	13RT	11+79	17.2-18.7	A-1-b(0)	24	1	53.6	30.7	3.6	12.2	76	49	13	-	-
SS-4	13RT	11+79	27.2-28.7	A-3(0)	22	NP	40.2	55.0	0.7	4.1	100	92	6	-	-
SS-5	13RT	11+79	37.1-38.6	A-2-4(0)	22	NP	20.9	69.0	4.0	6.1	95	86	11	-	-
SS-6	13RT	11+79	47.1-48.6	A-2-4(0)	18	NP	36.1	46.1	9.6	8.1	100	93	21	-	-
SS-7	13RT	11+79	52.1-53.6	A-6(3)	37	21	34.7	23.6	25.5	16.2	87	70	39	-	-
SS-8	13RT	11+79	57.1-58.6	A-2-4(0)	23	NP	53.8	32.7	7.4	6.1	77	57	12	-	-
SS-9	13RT	11+79	67.1-68.6	A-4(3)	30	9	13.2	47.1	21.4	18.3	98	92	55	-	-
SS-10	13RT	11+79	72.1-73.6	A-4(6)	34	10	2.4	50.8	26.5	20.3	100	99	72	-	-
SS-11	13RT	11+79	78.1-78.6	A-2-6(1)	35	16	42.2	14.8	22.6	20.3	74	48	35	-	-

EB2-B SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C.SAND	F.SAND	SILT	CLAY	10	40			200
SS-12	10RT	12+52	2.9-4.4	A-4(1)	22	9	31.7	29.0	19.0	20.3	98	88	44	-	-
SS-13	10RT	12+52	7.9-9.4	A-4(2)	22	5	3.7	28.8	41.1	26.4	100	98	79	-	-
SS-14	10RT	12+52	12.9-14.4	A-2-5(0)	108	NP	56.4	19.1	8.2	16.2	93	56	25	-	36.7
SS-15	10RT	12+52	22.9-24.4	A-2-4(0)	22	NP	38.8	52.0	3.1	6.1	97	87	11	-	-
SS-16	10RT	12+52	37.8-39.3	A-2-4(0)	21	NP	28.8	59.7	3.4	8.1	90	79	12	-	-
SS-17	10RT	12+52	47.8-49.3	A-6(8)	36	16	14.4	32.5	34.8	18.3	100	97	63	-	-
SS-18	10RT	12+52	57.8-59.3	A-2-4(0)	21	NP	47.9	39.8	6.2	6.1	84	71	11	-	-
SS-19	10RT	12+52	67.8-69.3	A-6(8)	34	12	1.8	48.7	27.1	22.3	100	99	75	-	-
SS-20	10RT	12+52	77.8-79.3	A-2-4(0)	29	9	41.0	33.9	8.8	16.2	65	46	18	-	-
SS-21	10RT	12+52	82.8-84.3	A-2-4(0)	30	5	2.6	68.0	13.1	16.2	100	99	32	-	-
SS-22	10RT	12+52	97.8-99.3	A-2-4(0)	26	NP	17.9	65.8	6.2	10.2	98	95	18	-	-
SS-23	10RT	12+52	112.8-114.3	A-2-4(0)	32	NP	12.4	67.4	10.1	10.2	99	97	22	-	-

