



LONG CHORD 1 LAYOUT
(FROM STATION 3161+00 TO 3179+00)
(WORKLINE 2 THRU 13)

LONG CHORD 1 ANGLES & DIMENSIONS
(FOR DETAILS OF DIMENSIONS, SEE DETAILS "A" & "B" SHEET 6 OF 8)

NOTES

LONG CHORD 1 IS LOCATED FROM W.P. #5 TO W.P. #41
W.P. #5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38 & 41 ARE LOCATED ON THE WORKLINES AND SURVEY LINE -L-.

W.P. #6, 7, 9, 10, 12, 13, 15, 16, 18, 19, 21, 22, 24, 25, 27, 28, 30, 31, 33, 34, 36, 37, 39 & 40 ARE ONLY LOCATED ON THE WORKLINES.

THE WORK POINTS ARE LOCATED ALONG TANGENT WORKLINES:

WORK POINTS #5 THRU #8 ARE LOCATED ON WORKLINE 2.
WORK POINTS #8 THRU #11 ARE LOCATED ON WORKLINE 3.
WORK POINTS #11 THRU #14 ARE LOCATED ON WORKLINE 4.
WORK POINTS #14 THRU #17 ARE LOCATED ON WORKLINE 5.
WORK POINTS #17 THRU #20 ARE LOCATED ON WORKLINE 6.
WORK POINTS #20 THRU #23 ARE LOCATED ON WORKLINE 7.
WORK POINTS #23 THRU #26 ARE LOCATED ON WORKLINE 8.
WORK POINTS #26 THRU #29 ARE LOCATED ON WORKLINE 9.
WORK POINTS #29 THRU #32 ARE LOCATED ON WORKLINE 10.
WORK POINTS #32 THRU #35 ARE LOCATED ON WORKLINE 11.
WORK POINTS #35 THRU #38 ARE LOCATED ON WORKLINE 12.
WORK POINTS #38 THRU #41 ARE LOCATED ON WORKLINE 13.

LONG CHORD 1	WORKLINE 2		WORKLINE 3		WORKLINE 4		WORKLINE 5		WL 6					
	W.P. #5	W.P. #6	W.P. #7	W.P. #8	W.P. #9	W.P. #10	W.P. #11	W.P. #12	W.P. #13	W.P. #14				
BENT NUMBER	BENT 4	BENT 5	BENT 6	BENT 7	BENT 8	BENT 9	BENT 10	BENT 11	BENT 12	BENT 13	BENT 14	BENT 15	BENT 16	
W.P. STATION -L-	3161+00.00	3161+50.00	3162+00.00	3162+50.00	3163+00.00	3163+50.00	3164+00.00	3164+50.00	3165+00.00	3165+50.00	3166+00.00	3166+50.00	3167+00.00	
LONG CHORD ANGLE	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	
WORKLINE ANGLE	105°-36'-19.7"	105°-36'-19.7"	105°-36'-19.7"	103°-01'-18.4"	103°-01'-18.4"	103°-01'-18.4"	100°-25'-02.7"	100°-25'-02.7"	100°-25'-02.7"	97°-48'-47.0"	97°-48'-47.0"	97°-48'-47.0"	95°-12'-31.3"	
WORKLINE BACK ANGLE	106°-36'-01.2"	105°-36'-19.7"	105°-36'-19.7"	105°-36'-19.7"	103°-01'-18.4"	103°-01'-18.4"	103°-01'-18.4"	100°-25'-02.7"	100°-25'-02.7"	100°-25'-02.7"	97°-48'-47.0"	97°-48'-47.0"	97°-48'-47.0"	
DIMENSION B (FT)	0.000	12.343	24.682	37.025	47.170	57.313	67.458	75.367	83.275	91.184	96.841	102.497	108.155	
DIMENSION Y (FT)	0.000	0.723	0.740	0.000	0.758	0.758	0.000	0.758	0.758	0.000	0.758	0.758	0.000	
DIMENSION Z (FT)	0.000	0.751	0.766	0.000	0.779	0.776	0.000	0.771	0.769	0.000	0.766	0.764	0.000	
DIMENSION LC (FT)		48.170	48.159	48.169	48.727	48.716	48.727	49.188	49.177	49.188	49.549	49.537	49.549	49.806
DIMENSION WL (FT)		50.000	49.988	50.000	50.000	49.988	50.000	50.000	49.988	50.000	50.000	49.988	50.000	50.000

LONG CHORD 1	WORKLINE 6		WORKLINE 7		WORKLINE 8		WORKLINE 9		WORKLINE 10					
	W.P. #18	W.P. #19	W.P. #20	W.P. #21	W.P. #22	W.P. #23	W.P. #24	W.P. #25	W.P. #26	W.P. #27				
BENT NUMBER	BENT 17	BENT 18	BENT 19	BENT 20	BENT 21	BENT 22	BENT 23	BENT 24	BENT 25	BENT 26	BENT 27	BENT 28	BENT 29	
W.P. STATION -L-	3167+50.00	3168+00.00	3168+50.00	3169+00.00	3169+50.00	3170+00.00	3170+50.00	3171+00.00	3171+50.00	3172+00.00	3172+50.00	3173+00.00	3173+50.00	
LONG CHORD ANGLE	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	
WORKLINE ANGLE	95°-12'-31.3"	95°-12'-31.3"	92°-36'-15.7"	92°-36'-15.7"	92°-36'-15.7"	90°-00'-00.0"	90°-00'-00.0"	90°-00'-00.0"	87°-23'-44.3"	87°-23'-44.3"	87°-23'-44.3"	84°-47'-28.7"	84°-47'-28.7"	
WORKLINE BACK ANGLE	95°-12'-31.3"	95°-12'-31.3"	95°-12'-31.3"	92°-36'-15.7"	92°-36'-15.7"	92°-36'-15.7"	90°-00'-00.0"	90°-00'-00.0"	90°-00'-00.0"	87°-23'-44.3"	87°-23'-44.3"	87°-23'-44.3"	84°-47'-28.7"	
DIMENSION B (FT)	111.548	114.941	118.334	119.457	120.580	121.702	120.552	119.402	118.251	114.830	111.410	107.989	102.304	
DIMENSION Y (FT)	0.758	0.758	0.000	0.758	0.758	0.000	0.758	0.758	0.000	0.758	0.758	0.000	0.758	
DIMENSION Z (FT)	0.761	0.760	0.000	0.759	0.758	0.000	0.758	0.758	0.000	0.758	0.759	0.000	0.760	
DIMENSION LC (FT)	49.806	49.795	49.806	49.961	49.950	49.961	50.013	50.001	50.013	49.961	49.950	49.961	49.806	49.795
DIMENSION WL (FT)	50.000	49.988	50.000	50.000	49.988	50.000	50.000	49.988	50.000	50.000	49.988	50.000	50.000	49.988

HORIZ. CURVE DATA -L-	
PI	= 3169+98.96
Δ	= 29°-51'-54.0" (RT)
D	= 1°-44'-10.4"
L	= 1,720.10'
T	= 880.07'
R	= 3,300.00'

LONG CHORD 1	WORKLINE 10		WORKLINE 11		WORKLINE 12		WORKLINE 13	
	W.P. #31	W.P. #32	W.P. #33	W.P. #34	W.P. #35	W.P. #36	W.P. #37	W.P. #38
BENT NUMBER	BENT 30	BENT 31	BENT 32	BENT 33	BENT 34	BENT 35	BENT 36	BENT 37
W.P. STATION -L-	3174+00.00	3174+50.00	3175+00.00	3175+50.00	3176+00.00	3176+50.00	3177+00.00	3177+50.00
LONG CHORD ANGLE	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"	91°-19'-05.0"
WORKLINE ANGLE	84°-47'-28.7"	82°-11'-13.0"	82°-11'-13.0"	82°-11'-13.0"	79°-34'-57.3"	79°-34'-57.3"	79°-34'-57.3"	77°-11'-37.1"
WORKLINE BACK ANGLE	84°-47'-28.7"	84°-47'-28.7"	82°-11'-13.0"	82°-11'-13.0"	82°-11'-13.0"	79°-34'-57.3"	79°-34'-57.3"	77°-11'-37.1"
DIMENSION B (FT)	96.620	90.935	82.999	75.064	67.127	56.955	46.785	36.613
DIMENSION Y (FT)	0.758	0.000	0.758	0.758	0.000	0.758	0.758	0.000
DIMENSION Z (FT)	0.761	0.000	0.764	0.766	0.000	0.769	0.771	0.000
DIMENSION LC (FT)	49.795	49.806	49.585	49.537	49.549	49.188	49.177	49.188
DIMENSION WL (FT)	49.988	50.000	50.000	49.988	50.000	50.000	49.988	50.000

PROJECT NO. B-2500AB
DARE COUNTY
STATION: 3170+75.00 -L-

SHEET 5 OF 8



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
GENERAL DRAWING
BRIDGE ON NC 12
OVER NEW INLET
AT PEA ISLAND

DRAWN BY: M.A. ALLEN DATE: 6/15
CHECKED BY: T.M. GARRISON, P.E. DATE: 6/15
DESIGN ENGINEER OF RECORD: T.M. GARRISON, P.E. DATE: 6/15

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-5
2			4			TOTAL SHEETS 44