DESIGN LOAD SCHEDULE
(ALL LOADS SHOWN ARE IN POUNDS PER SQ. FT.)

COMPONENT \ AREA	BOARDWALK	OBS. TOWER				
WOOD FRAMING	5	5				
DECKING	5	5				
STEEL & JOIST	.	10				
TOTAL DEAD LOAD	10	20				
TOTAL LIVE LOAD	100	100				
TOTAL LOAD	110	120				

LATERAL LOAD DESIGN SCHEDULE
2015 INTERNATIONAL BUILDING CODE

WIND LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
BASIC ULTIMATE WIND SPEED	$V_{35\text{-}ULT}$	115 mph	FIGURE 1609
BASIC ALLOWABLE WIND SPEED	$V_{35\text{-}ALL}$	90 mph	FIGURE 1609
RISK CATEGORY		III	TABLE 1604.5
WIND EXPOSURE CATEGORY	-	D	SECTION 1609.4
INTERNAL PRESSURE COEFF.	GCPI	—	FIGURE 6-5 (ASCE 7)

SEISMIC LOAD			
ITEM	SYMBOL	VALUE	REFERENCE
SITE CLASS	-	D	SECTION 1615.1.1
MAPPED SPECTRAL RESPONSE ACCELERATION	S_S	0.129	FIGURE 1615(1)
MAPPED SPECTRAL RESPONSE ACCELERATION (1- SECOND RESPONSE)	S_1	0.050	FIGURE 1615(2)
DESIGN SPECTRAL RESPONSE ACCELERATION	S_{DS}	0.138	SECTION 1615.1.3
DESIGN SPECTRAL RESPONSE ACCELERATION (1- SECOND RESPONSE)	S_{D1}	0.080	SECTION 1615.1.3
RISK CATEGORY	-	III	SECTION 1616.2
SEISMIC DESIGN CATEGORY	-	B	TABLE 1616.3
SEISMIC IMPORTANCE FACTOR	I_E	1.25	TABLE 1604.5
DESIGN BASE SHEAR	-	41 kips	SECTION 1617.4
ANALYSIS PROCEDURE	-	EQUIVALENT LATERAL FORCE	SECTION 1617
BASIC STRUCTURAL SYSTEM	-	STEEL FRAME SYSTEM	TABLE 1617.6.2
BASIC SEISMIC- FORCE- RESISTING SYSTEM	-	CONCENTRICALLY BRACED FRAME	TABLE 1617.6.2
SEISMIC RESPONSE COEF.	C_S	0.057	TABLE 1617.6.2
RESPONSE MOD. FACTOR	R	3	TABLE 1617.6.2

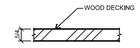
SNOW LOAD DESIGN SCHEDULE
2015 INTERNATIONAL BUILDING CODE

ITEM	SYMBOL	VALUE	REFERENCE
GROUND SNOW LOAD	P_g	25	FIGURE 1608.2
SNOW EXPOSURE FACTOR	C_e	1.0	TABLE 7.2 (ASCE-7)
SNOW LOAD IMPORTANCE FACTOR	I	1.1	TABLE 7.4 (ASCE-7)
THERMAL FACTOR	C_t	1.2	TABLE 7.3 (ASCE-7)
FLAT-ROOF SNOW LOAD	P_f	25	SECTION 7.3 (ASCE-7)

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE (A36)	A.B. (F1554)	NOTES
SC1	W10X39	1-1/4"x16"x1'-4"	(4) 1"Ø (G50)	
.	.	.	.	
.	.	.	.	
.	.	.	.	

TOWER AND BOARDWALK DECK CONSTRUCTION SCHEDULE

TYPE	SECTION	CONCRETE (UNIT WEIGHT)	DECK	REINFORCING	ADDITIONAL NOTES	DESCRIPTION
S1			5/4 x 6 SOUTHERN YELLOW PINE WOOD DECKING (PRESSURE TREATED)			SLAB TYPE "DK1": 5/4 x 6 SOUTHERN YELLOW PINE WOOD DECKING (PRESSURE TREATED)

PILE DESIGN LOADS KIPS/PILE (SERVICE)

CONDITION	ABUTMENT	BOARDWALK	VIEWING AREA
VERTICAL PILE - COMPRESSION	8.2	6.5	25
VERTICAL PILE - TENSION (DUE TO UPLIFT)	–	4.5	20
BATTERED PILE - TENSION OR COMPRESSION	–	8.9	–

NOTE: BATTERED PILE LOADS HAVE BEEN RESOLVED TO ACT ALONG THE SHAFT OF THE PILE AT 2V:1H BATTER. LATERAL PILE LOADS ACT AT THE PILE CAP ELEVATION.

1

DATE:	DESCRIPTION:	BY:
7.14.2017	50% SUBMITTAL	PJP
11.2.2017	ISSUED FOR PERMIT	
12.1.2017	ISSUED FOR BID	
3.9.2018	ADDENDUM #1	

DELAWARE'S BAYSHORE BYWAY
LITTLE CREEK BOARDWALK AND
WILDLIFE OBSERVATION TOWER

STRUCTURAL SCHEDULES

DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

DESIGNED BY: P2STRENG
DRAWN BY: P2STRENG
BUILDING NO.: N/A
DATE: DECEMBER 1, 2017
SCALE:
SHEET NO.: S-3
DFW PROJECT #: FW-2-15
CONTRACT #: FW-2-15

1/20/2017 8:11:33 AM
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