

PANEL: SP				LOCATION:				HATTERAS DOCK							
OPTIONS															
VOLTS L-L: 208		MAIN OVERCURRENT:		1200A MCB		BUS MATERIAL: Cu		MOUNTING:		SURFACE					
VOLTS L-N: 120		MAIN BUS RATING:		1200A		NEUTRAL SIZE: 100%		ENCLOSURE TYPE:		NEMA 4X					
PHASE: 3		MINIMUM A.I.C.:						GROUND:		SEPARATELY DERIVED					
WIRE: 4															
LOAD DATA															
CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	PHASE A	PHASE B	PHASE C	VA	DESCRIPTION	TYPE	POLE	BKR.	CKT#	
1				SPACE		1921			1921	GATE OPERATOR/TOP RIGHT BREAKER		3	20 A	2	
3				SPACE			1921		1921					4	
5				SPACE				1921	1921					6	
9				SPACE		0					SPACE				10
11				SPACE			0			SPACE				12	
13				SPACE				0		SPACE				14	
15				SPACE		1921			1921	IQ BOX NORTH FUEL PUMPS				16	
17				SPACE			1921		1921			3	20 A	18	
19				SPACE				1921	1921					20	
21					1921	1921					SPACE				22
23	20 A	3		IQ BOX SOUTH FUEL PUMPS	1921		1921			SPACE				24	
25					1921			1921		SPACE				26	
27					19214	21136			1921	LIGHT ON POLES		1	20 A	28	
29	200 A	3		SHORE POWER #6	19214		21136		1921	PUMP CONTROLLER		1	20 A	30	
31					19214			21136	1921	DISPENSER		1	20 A	32	
33					19214	38428			19214	PUMP #2		3	200 A	34	
35	200 A	3		19214		38428		19214					36		
37				19214			38428	19214					38		
39				SHORE POWER (SOUTH RAMP)	19214	38428			19214	PUMP #1				40	
41	200 A	3			19214		38428		19214			3	200 A	42	
43					19214			38428	19214					44	
45				PANEL WP FEED	24155	43369			19214	SHORE POWER #2 & #4				46	
47	200 A	3			22179		41393		19214			3	200 A	48	
49					22355			41569	19214					50	
51				OPERATIONS BUILDING PANEL BOARD	38428	57643			19214	SHORE POWER #7				52	
53	400 A	3			38428		57643		19214			3	200 A	54	
55					38428				57643		19214				56
TOTAL CONNECTED LOAD (VA) PER PHASE:						204769	202793	202969							
CONNECTED LOAD (AMPS) PER PHASE						1706	1690	1691							
TOTAL CONNECTED LOAD (VA):						610530	NEC ARTICLE 220 LOAD (VA):						342049		
AVERAGE CONNECTED LOAD (AMPS):						1695	AVERAGE ARTICLE LOAD (AMPS):						949		
NOTES:															
1.	DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNANT LOADING AND RECEPTACLES VA.														
2.	PROVIDE MANUFACTURER'S STANDARD SPD.														
3.	PANEL SCHEDULES ARE BASED ON RECORD DRAWINGS PROVIDED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY CONNECTED LOADS PRIOR TO MODIFICATION OF PANELS.														
4.	LOADS DEPICTED IN ITALICIZED FONT ARE REPRESENTATIVE OF EXISTING LOADS. LOADS DEPICTED IN BOLD FONT ARE REPRESENTATIVE OF NEW LOADS TO BE CONNECTED.														

PANEL:				WP				LOCATION:				HATTERAS DOCK			
OPTIONS															
VOLTS L-L:		208		MAIN OVERCURRENT:		225A MCB		BUS MATERIAL:		Cu		MOUNTING:		SURFACE	
VOLTS L-N:		120		MAIN BUS RATING:		225A		NEUTRAL SIZE:		100%		ENCLOSURE TYPE:		NEMA 4X	
PHASE:		3		MINIMUM A.I.C.:								GROUND:		SEPARATELY DERIVED	
WIRE:		4													
LOAD DATA															
CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	PHASE A	PHASE B	PHASE C	VA	DESCRIPTION	TYPE	POLE	BKR.	CKT#	
1	100 A	3		60 AMP	9607	11307			1700	HOIST MOTOR 1 (3/4HP)		1	20 A	2	
3					9607		9607			SPACE			1	4	
5					9607			9607			SPACE		1		6
7						9607			9607			60 AMP			
9		1		SPACE			9607		9607	SHORE POWER ON REC		3	100 A	10	
11		1		SPACE				9607	9607	ON RIGHT REC B				12	
13	15 A	1		SEWER HOSE REEL	1440	1440				SPACE		1		14	
15	20 A	1		RAIL LTS	84		84			SPACE		1		16	
17		1		SPACE				0		SPACE		1		18	
19		1		SPACE		1441			1441	FUEL HOSE REEL		3	15 A	20	
21	15 A	1		WATER HOSE REEL	1440		2881		1441					22	
23		1		SPACE				1441	1441					24	
25		1		SPACE		360			360	DOCK RECEPTACLES		1	20 A	26	
27		1		SPACE			20		20	SAFETY PEDESTAL		1	15A	28	
29	20 A	1		HOIST MOTOR 2 (3/4HP)	1700			1700		SPACE		1		30	
TOTAL CONNECTED LOAD (VA) PER PHASE:						24155	22199	22355							
CONNECTED LOAD (AMPS) PER PHASE						201	185	186							
TOTAL CONNECTED LOAD (VA):						68710	NEC ARTICLE 220 LOAD (VA):				45815				
AVERAGE CONNECTED LOAD (AMPS):						191	AVERAGE ARTICLE LOAD (AMPS):				127				
NOTES:															
1.	DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNANT LOADING AND RECEPTACLES VA.														
2.	PROVIDE MANUFACTURER'S STANDARD SPD.														
3.	PANEL SCHEDULES ARE BASED ON RECORD DRAWINGS PROVIDED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY CONNECTED LOADS PRIOR TO MODIFICATION OF PANELS.														
4.	LOADS DEPICTED IN ITALICIZED FONT ARE REPRESENTATIVE OF EXISTING LOADS. LOADS DEPICTED IN BOLD FONT ARE REPRESENTATIVE OF NEW LOADS TO BE CONNECTED.														

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GRAPHIC SCALE

Digitally signed by Andrew K Gibbs  
Date: 2025.02.17 08:02:08-06'00'

PROJECT ENGINEER

NORTH CAROLINA

PROFESSIONAL

SEAL

041677

ANDREW K. GIBBS

ANDREW K. GIBBS, P.E.  
NC LICENSE: 041677

Designed By	RICHARD FERREIRA	County	DARE COUNTY
Entered By	RICHARD FERREIRA	Division	FERRY DIVISION
Project Engineer	ANDREW GIBBS	Plan Date	1-14-2025
Project Manager	ALLISON THORBURN		
Rev.	Date	Drawn	Description
			Ch'k'd
			App'd

NCDOT PASSENGER FERRY  
DOCK REPLACEMENT -  
HATTERAS ISLAND

E-004  
ELECTRICAL SCHEDULES