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Architects Engineers Planners
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**CEDAR ISLAND FERRY
 OFFICE RENOVATION
 CEDAR ISLAND, NORTH CAROLINA**

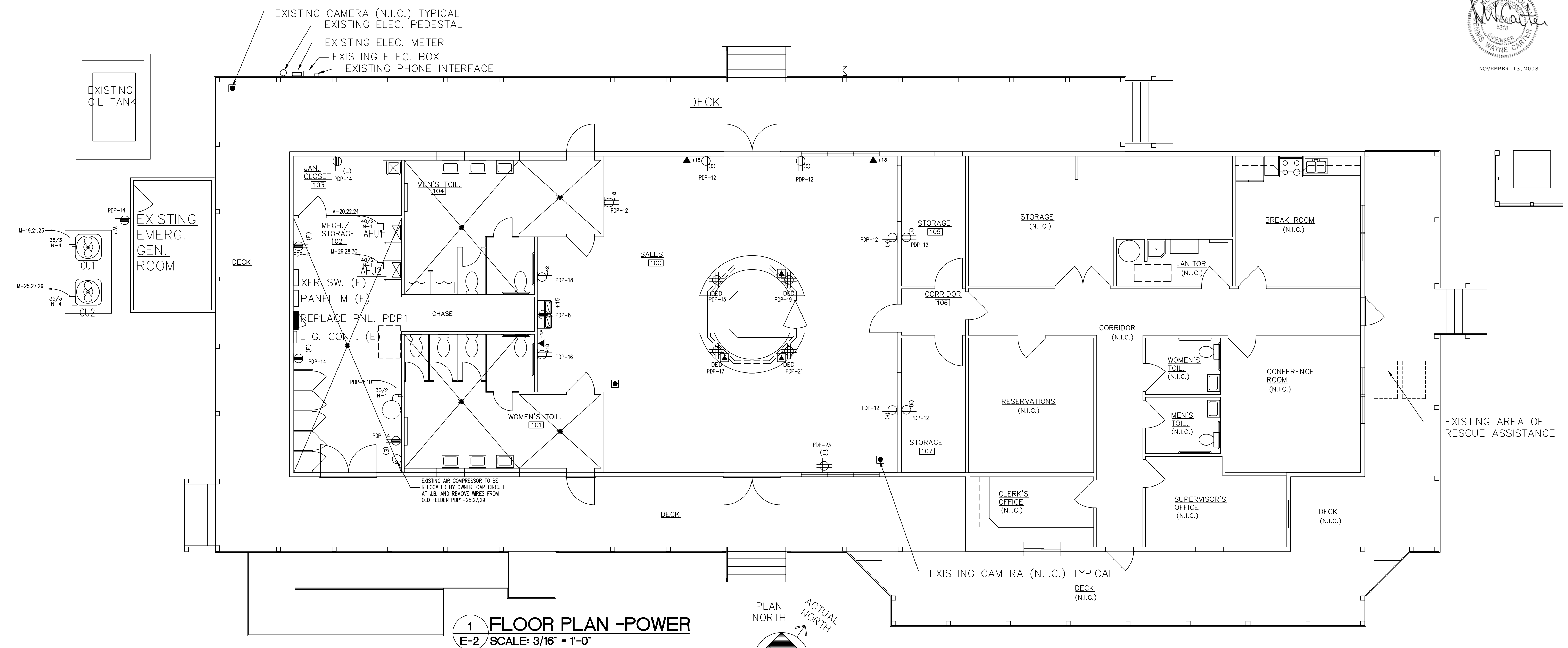
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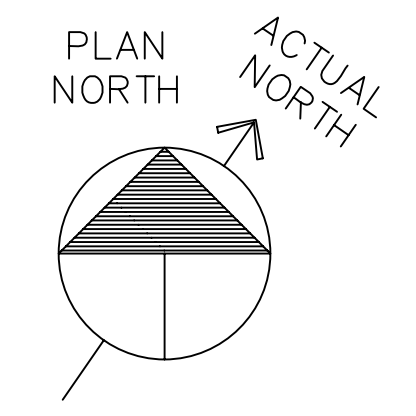
ISSUED: 08-12-08
 DWG BY: MLR
 CKD BY: RMB, LDD

REVISIONS

SHEET NO.
E-2
 OF 3



**1 FLOOR PLAN - POWER
 E-2 SCALE: 3/16" = 1'-0"**



ALL BREAKERS 20 AMP/ 1 POLE UNLESS OTHERWISE NOTED.

PANEL-M	AIC : EXISTING		RATING: 500		3 PHASE 4 WIRE		MOUNTING: SURFACE		NO. MAIN BREAKER		EQUIPMENT GROUND BUS		S.E. LABEL	
	WIRE	SIZE	FR	CKT	FR	CKT	FR	CKT	FR	CKT	FR	CKT	FR	CKT
LOAD SERVICE	WIRE	SIZE	FR	CKT	FR	CKT	FR	CKT	FR	CKT	FR	CKT	FR	CKT
NO LABEL														
NO LABEL														
HEAT PUMP CU1														
HEAT PUMP CU2														
EXIST. MAIN 2														
EXIST. MAIN 1														
BREAKER LOAD COMPUTED BASED ON 125% OF ALL LIGHTING LOADS, RECEPTACLE CIRCUITS AT 180 V-A/RECEPTACLE & H.V.A.C. LOADS BASED ON M.C.A. RATING OF EQUIPMENT														
* REPLACE EXISTING BREAKER														

ALL BREAKERS 20 AMP/ 1 POLE UNLESS OTHERWISE NOTED.

PANEL-PDP	AIC : EXISTING		RATING: 100		3 PHASE 4 WIRE		MOUNTING: SURFACE		NO. MAIN BREAKER		EQUIPMENT GROUND BUS		S.E. LABEL	
	WIRE	SIZE	FR	CKT	FR	CKT	FR	CKT	FR	CKT	FR	CKT	FR	CKT
LIGHTING *														
LIGHTING *														
LIGHTING *														
LIGHTING *														
DED. QUADRAPLEX														
DED. QUADRAPLEX														
DED. QUADRAPLEX														
DED. QUADRAPLEX														
BREAKER LOAD COMPUTED BASED ON 125% OF ALL LIGHTING LOADS, RECEPTACLE CIRCUITS AT 180 V-A/RECEPTACLE & H.V.A.C. LOADS BASED ON M.C.A. RATING OF EQUIPMENT														
* CIRCUIT THRU TIMECLOCK														
** ADD NEW W/P OR RECEPTACLE AT CONDENSERS TO EXISTING CIRCUIT.														

WATTAGE SUMMARY

LIGHTING :	2,550 S.F. X 3 V-A/S.F. X 1.25	PANEL PDP1	9,563 V-A
TRACK LIGHTS	40 L.F. X 75 V-A/L.F.		3,000 V-A
RECEPTACLES :	13 @ 180 V-A/REC.		2,340 V-A
WATER HEATER:	(@ 125%)		5,625 V-A
SIGN CIRCUIT:			1,500 V-A
DED. RECEPTACLES:			4,500 V-A
H.V.A.C. :			
FANS :			756 V-A
HEATERS:			--
HEAT PUMPS:	(as per N.E.C. 430-25)		-----
			27,284 V-A
	27,284 V-A		
			= 75.8 AMPS
	208V X 1.732		