APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(REPRODUCE THE FOLLOWING DATA ON THE BUILDING PLANS SHEET 1 OR 2)

NAME OF PROJECT: MARINE MAINTENANCE FACILITY, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
ADDRESS: MANNS HARBOR, NC
PROPOSED USE: MAINTENANCE SHOP ADDITION AND SYNCROLIFT CONTROL BUILDING
OWNER OR AUTHORIZED AGENT: DONALD CHAPMAN PHONE NUMBER: 252-473-3461
OWNED BY: ☐ CITY/COUNTY ☐ PRIVATE ☒ STATE
CODE ENFORCEMENT JURISDICTION: ☐ CITY _____ ☒ COUNTY DARE COUNTY

LEAD DESIGN PROFESSIONAL: LOCKWOOD GREENE, 1500 INTERNATIONAL DRIVE, SPARTANBURG, SC 29303 (864) 578-2000

DESIGNER:	FIRM:	NAME:	LICENSE NUMBER:
ARCHITECTURAL:	LOCKWOOD GREENE	JOHN M. MILLER	3228
CIVIL:	LOCKWOOD GREENE	CARROLL D. WALKER	10149
ELECTRICAL:	LOCKWOOD GREENE	ALFRED E. TAYLOR	025421
FIRE ALARM:	N/A		
PLUMBING:	LOCKWOOD GREENE	CHARLES R. FUNK	24816
MECHANICAL:	LOCKWOOD GREENE	CHARLES R. FUNK	24816
SPRINKLER-STANDPIPE:	N/A		
STRUCTURAL:	LOCKWOOD GREENE	CLARK A. SMITH	021883
RETAINING WALLS >5' HIGH:	NA		
OTHER:			

YEAR EDITION OF CODE: NORTH CAROLINA BUILDING CODE (NCBC) 2002 EDITION (2000 INTERNATIONAL BUILDING CODE WITH NORTH CAROLINA AMENDMENTS)

BUILDING DATA:
☒ NEW CONSTRUCTION ☐ RENOVATION (EXISTING BLDG) ☐ UPLIFT ☐ ALTERATION
CONSTRUCTION TYPE: ☐ I-A ☐ I-B ☐ II-A ☒ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☐ V-B
MIXED CONSTRUCTION: ☒ NO ☐ YES TYPES _____

SPRINKLERS: ☐ NO ☒ YES ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
STANDPIPES: ☒ NO ☐ YES CLASS ☐ I ☐ II ☐ III ☐ WET ☐ DRY
FIRE DISTRICT: ☒ NO ☐ YES
BUILDING HEIGHT: ±24 FEET 2 NUMBER OF STORIES ☐ EXEMPT PER _____
MEZZANINE: ☒ NO ☐ YES
HIGH RISE: ☒ NO ☐ YES CENTRAL REFERENCE SHEET # (IF PROVIDED) _____

GROSS BUILDING AREA:

FLOOR:	EXISTING (SQ FT):	NEW (SQ FT):	SUBTOTAL
FIRST FLOOR (MAINTENANCE FACILITY)	40, 320 SF	700 SF	41, 020 SF
SECOND FLOOR (OFFICES)	5, 433 SF	NA	5, 433 SF
SECOND FLOOR (PLATEN OBSERVATION ROOM)	NA	700 SF	700 SF
TOTAL	45, 753 SF	1, 400 SF	47, 153 SF
FIRST FLOOR (CONTROL BUILDING)	150 SF (TO BE REMOVED)	150 SF	150 SF

ALLOWABLE AREA:
EXISTING MAINTENANACE FACILITY: ASSUMED TO BE GRANDFATHERED BY DARE COUNTY AND TO BE BUILDING CODE COMPLIANT.
NEW CONTROL BUILDING: 15, 500 SF ALLOWABLE (TABLE 503)
NEW MAINTENANCE FACILITY ADDITION: 4, 102 SF ALLOWABLE AS ACCESSORY USE AREA (SECTION 302. 2)

PRIMARY OCCUPANCY: ☐ ASSEMBLY ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
☐ BUSINESS ☐ EDUCATIONAL ☒ FACTORY -INDUSTRIAL ☒ F-1 ☐ F-2
☐ HIGH-HAZARD ☐ H-1 ☐ H-2 ☐ H-3 ☐ H-4 ☐ H-5
☐ INSTITUTIONAL ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 USE CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ MERCANTILE ☐ RESIDENTIAL ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
☐ STORAGE ☐ S-1 ☐ S-2 ☐ HIGH-PILED
☐ UTILITY AND MISCELLANEOUS PARKING GARAGE ☐ OPEN ☐ ENCLOSED ☐ REPAIR
SECONDARY OCCUPANCY: BUSINESS (EXISTING MAINTENANCE FACILITY ONLY - GRANDFATHERED BY DARE COUNTY)
SPECIAL OCCUPANCY: ☐ 508. 2 ☐ 508. 3 ☐ 508. 4 ☐ 508. 5 ☐ 508. 6 ☐ 508. 7 ☐ 508. 8
MIXED OCCUPANCY: ☒ NO ☐ YES SEPARATION: _____ HR. EXCEPTION: SECTION 507 - ASSUMED UNLIMITED AREA BUILDING

☒ NON-SEPARATED MIXED OCCUPANCY (302. 3. 2 EXCEPTION)
THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

☐ SEPARATED MIXED OCCUPANCY (303. 1/303. 2) - SEE BELOW FOR AREA CALCULATIONS
FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} + \ldots = ____ \leq 1.00 \qquad \leq 1 \quad \text{NA}$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 503[5] AREA	(C) AREA FOR OPEN SPACE INCREASE[1]	(D) AREA FOR SPRINKLER INCREASE[2]	(E) ALLOWABLE AREA OR UNLIMITED[3]	(F) MAXIMUM BUILDING AREA[4]

[1]OPEN SPACE AREA INCREASES FROM SECTION 506. 2 ARE COMPUTED THUS:
A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = _____ (F)
B. TOTAL BUILDING PERIMETER = _____ (P)
C. RATIO (F/P) = _____ (F/P)
D. W = MINIMUM WIDTH OF PUBLIC WAY = _____ (W)
E. PERCENT OF FRONTAGE INCREASE IF = 100 [F/P - 0. 25] X W/30 = _____ (%)

[2]THE SPRINKLER INCREASE PER SECTION 506. 3 IS AS FOLLOWS:
A. MULTI-STORY BUILDING IS = 200 PERCENT
B. SINGLE STORY BUILDING IS = 300 PERCENT

[3]UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTIONS GROUP B, F, M, S, A-4 (507. 1, 507. 2, 507. 3, 507. 5); GROUP A MOTION PICTURE (507. 8); WALLS (402. 6); AND H-2 AIRCRAFT PAINT HANGERS (507. 6)

[4]MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING X E BUT NOT GREATER THAN 3 X E.

[5]THE MAXIMUM AREA OF PARKING GARAGES MUST COMPLY WITH 406. 3. 5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH 412. 1. 2.

ALLOWABLE HEIGHT:

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
TYPE OF CONSTRUCTION	TYPE = IIB		TYPE = IIB	TABLE 503
BUILDING HEIGHT IN FEET	FEET = 55	FEET = H + 20' = N/A	FEET = 24	TABLE 503
BUILDING HEIGHT IN STORIES	STORIES = 2	STORIES + 1 = N/A	STORIES = 2	TABLE 503

FIRE PROTECTION REQUIREMENTS: TYPE II-B CONTRUCTION (TABLE 601)

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_* REDUCTION)	DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED ASSEMBLY	DESIGN NO. FOR RATED PENETRATION	DESIGN NO. FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES	-	0	0	-	-	-	-
BEARING WALLS:							
EXTERIOR: NA							
NORTH							
EAST							
WEST							
SOUTH							
INTERIOR: NA							
NONBEARING WALLS AND PARTITIONS:							
EXTERIOR:							
NORTH	60' MIN.	0	0	-	-	-	-
EAST	60' MIN.	0	0	-	-	-	-
WEST	60' MIN.	0	0	-	-	-	-
SOUTH	60' MIN.	0	0	-	-	-	-
INTERIOR:	NA (SEE SHAFT RATING FOR STAIRS)						
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	-	0	0	-	-	-	-
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	-	0	0	-	-	-	-
SHAFTS - EXIT STAIRS	-	0	0	(SECTION 1005. 3. 2,	EXCEPTION 1)		
SHAFTS - OTHER	-	0	0				
CORRIDOR SEPARATION	-	0	0				
OCCUPANCY SEPARATION	-	NA	-	-	-	-	-
PARTY/FIRE WALL SEPARATION	-	NA	-	-	-	-	-
SMOKE BARRIER SEPARATION	-	NA	-	-	-	-	-
TENANT SEPARATION	-	NA	-	-	-	-	-

*INDICATE SECTION NUMBER PERMITTING REDUCTION

LIFE SAFETY SYSTEM REQUIREMENTS:
EMERGENCY LIGHTING: ☐ NO ☒ YES
EXIT SIGNS: ☐ NO ☒ YES
FIRE ALARM: ☐ NO ☒ YES
SMOKE DETECTION SYSTEMS: ☒ NO ☐ YES
PANIC HARDWARE: ☐ NO ☒ YES

EXIT REQUIREMENTS:
NUMBER AND ARRANGEMENT OF EXITS:

FLOOR, ROOM OR SPACE DESIGNATION	OCCUPANT LOAD (TABLE 1003. 2. 2. 2) ALLOWABLE	OCCUPANT LOAD ACTUAL	MINIMUM[2,4] NUMBER OF EXITS REQUIRED (TABLES 1005. 2. 1, 1004. 2. 1, 1003. 2. 3)	MINIMUM[2,4] NUMBER OF EXITS SHOWN ON PLANS	TRAVEL DISTANCE ALLOWABLE TRAVEL DISTANCE (TABLE 1004. 2. 4) - W/OUT SPRINKLER SYSTEM	TRAVEL DISTANCE ALLOWABLE TRAVEL DISTANCE (TABLE 1004. 2. 4) - W/SPRINKLER SYSTEM	TRAVEL DISTANCE ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS[1,3] (SECTION 1004. 1) REQUIRED DISTANCE BETWEEN EXIT DOORS (1004. 2. 2. 1)	ARRANGEMENT MEANS OF EGRESS[1,3] (SECTION 1004. 1) ACTUAL DISTANCE SHOWN ON PLANS
MAINTENANCE FACILITY	F: 100	410	3	18-36"DRS.	NA	250'	120' (<250')	179' MIN.	336'
OFFICES	B: 100	54	2	3-36"DRS.	NA	250'	85' (<250')	65' MIN.	96'
PLATEN OBSER. ROOM	F: 100	7	1	1-36"DR	NA	250'	50' (<250')	NA	NA
CONTROL BUILDING	F: 100	2	1	1-36"DR	200'	NA	10' (<200')	NA	NA

[1]CORRIDOR DEAD ENDS (SECTION 1004. 3. 2. 3)
[2]SINGLE EXITS (TABLE 1005. 2. 2)
[3]COMMON PATH OF TRAVEL (SECTION 1004. 2. 5)

EXIT WIDTH:

USE GROUP OR SPACE DESCRIPTION	(A) AREA[1] SQ. FT.	(B) AREA[1] PER OCCUPANT (TABLE 1003. 2. 2. 2) ALLOWABLE	(B) AREA[1] PER OCCUPANT ACTUAL	(C) EGRESS WIDTH PER OCCUPANT (TABLE 1003. 2. 3) - WITHOUT SPRINKLER SYSTEM STAIR	(C) EGRESS WIDTH PER OCCUPANT LEVEL	EXIT WIDTH (IN)[2,2,4,5,6] REQUIRED CLEAR WIDTH (SECTION 1003. 2. 3) (A/B) X C STAIR (1003. 3. 3. 1 EXCEPT #1)	EXIT WIDTH (IN)[2,2,4,5,6] REQUIRED CLEAR WIDTH (SECTION 1003. 2. 3) (A/B) X C LEVEL	EXIT WIDTH (IN)[2,2,4,5,6] ACTUAL CLEAR WIDTH SHOWN ON PLANS STAIR (1003. 3. 3. 1 EXCEPT #1)	EXIT WIDTH (IN)[2,2,4,5,6] ACTUAL CLEAR WIDTH SHOWN ON PLANS LEVEL QUANTITY	EXIT WIDTH (IN)[2,2,4,5,6] ACTUAL CLEAR WIDTH SHOWN ON PLANS LEVEL SIZE
MAINTENANCE FACILITY	41, 020	F: 100	410	NA	0. 15	NA	62"	NA	576"	18-36"DRS.
OFFICES	5, 433	B: 100	54	0. 2	0. 15	12"	9"	36" MIN.	96"	3-36"DRS.
PLATEN OBSER. ROOM	700	F: 100	7	0. 2	0. 15	2"	2"	36" MIN.	32"	1-36"DR.
CONTROL BUILDING	150	F: 100	2	NA	0. 2	NA	0. 4"	NA	32"	1-36"DR.

[1]SEE TABLE 1003. 2. 2. 2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE. SEE DEFINITION "AREA, GROSS" AND AREA, NET" (SECTION 1002)

[2]THE SPRINKLER INCREASE PER SECTION 506. 3 IS AS FOLLOWS:
C. MULTI-STORY BUILDING IS = 200 PERCENT
D. SINGLE STORY BUILDING IS = 300 PERCENT

[3]MINIMUM STAIRWAY WIDTH (SECTION 1003. 3. 3); MIN. CORRIDOR WIDTH (SECTION 1004. 3. 2. 2); MIN. DOOR WIDTH (SECTION 1003. 3. 1)

[4]MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1005. 3. 3)

[5]THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50 PERCENT OF THE TOTAL REQUIRED (SECTION 1003. 2. 3)

[6]ASSEMBLY OCCUPANCIES (SECTION 1008)

ACCESSIBILITY:

EXISTING MAINTENANCE FACILITY: THE EXISTING MAINTENANCE FACILITY IS ASSUMED TO BE ACCESSIBLE AND CODE COMPLIANT BY DARE COUNTY. ALL NEW CONSTRUCTION WILL CONFORM TO NORTH CAROLINA STATE BUILDING CODE (NCSBC), VOLUME 1-C, 2002 EDITION.
EXCEPTION: SECTION 15. 2. 1. 2 BUILDINGS REQUIRING ELEVATORS. THE SECOND LEVEL OF THE TOOL ROOM ADDITION FOR THE EXISTING MAINTENANCE FACILITY SHALL BE EXEMPT AS AN ELEVATED PLATEN OBSERVATION ROOM DUE TO THE FACT THAT THE OBSERVATION LEVEL IS A 1-OCCUPANT WORK SPACE AND IS FOR SAFETY/ SECURITY OBSERVATION.

STRUCTURAL DESIGN:
DESIGN LOADS:
IMPORTANCE FACTORS: WIND (LW) 1. 0
SNOW (LS) 1. 0
SEISMIC (LE) 1. 0
LIVE LOADS: ROOF 20 PSF
SECOND FLOOR 100 PSF
SNOW LOAD: 10 PSF
WIND LOAD: BASIC WIND SPEED 105 MPH (ASCE-7-98)
EXPOSURE CATEGORY D
WIND BASE SHEARS (FOR MWFRS) VX = 410K (E-W) VY = 3320K (N-S)

SEISMIC DESIGN CATEGORY C
COMPLIANCE WITH SECTION 1616. 4 ONLY? ☐ YES ☒ NO

SEISMIC DESIGN CATEGORY B, C, & D
PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
SEISMIC USE GROUP 1
SPECTRAL RESPONSE ACCELERATION SMS 35. 5%G SM1 21. 5%G
SITE CLASSIFICATION E
BASIC STRUCTURAL SYSTEM
EAST - WEST: STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, R-3
NORTH - SOUTH: CANTILEVERED COLUMN SYSTEM, R-2. 5
SEISMIC BASE SHEAR VX = 420K VY = 420K
ANALYSIS PROCEDURE ___ SIMPLIFIED ___X___ EQUIVALENT LATERAL FORCE _____ MODAL
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? _____

LATERAL DESIGN CONTROL: EARTHQUAKE _____ WIND ___X___

SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) 3000 PSF
PILE SIZE, TYPE, AND CAPACITY 14" PRESTRESSED CONC. 100T COMP., 50T TENSION

PLUMBING FIXTURE REQUIREMENTS:
EXISTING MAINTENANCE FACILITY - CHAPTER 4, NORTH CAROLINA PLUMBING CODE 2002 EDITION (2000 INTERNATIONAL PLUMBING CODE WITH NORTH CAROLINA AMENDMENTS)

OCCUPANCY (50%M/ 50%F)	WATERCLOSETS MALE REQ'D	WATERCLOSETS MALE EXIST.	WATERCLOSETS FEMALE REQ'D	WATERCLOSETS FEMALE EXIST.	URINALS REQ'D	URINALS EXIST.	LAVATORIES MALE REQ'D	LAVATORIES MALE EXIST.	LAVATORIES FEMALE REQ'D	LAVATORIES FEMALE EXIST.	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
F-1: 417	6	4	15	2	3	4	9	6	9	2	-	1	1
B: 54	1	1	2	1	1	1	1	1	1	1	-	-	1

NOTE:
THE EXISTING PLUMBING FIXTURES ARE ASSUMED GRANDFATHERED AND PLUMBING CODE COMPLIANT BY DARE COUNTY. ADDITIONAL PLUMBING FIXTURES ARE NOT REQUIRED FOR THE NEW MAINTENANCE FACILITY ADDITION AND CONTROL BUILDING.

ACCESSIBLE PARKING:
EXISTING PARKING IS SUFFICIENT - EXISTING PARKING WILL NOT CHANGE.

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR WITH 5' ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
TOTAL					

SPECIAL APPROVALS:
SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, SBCCI, ICC, ETC., DESCRIBE BELOW)
NA

ENERGY SUMMARY:
ENERGY REQUIREMENTS:
THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED.

THERMAL ENVELOPE:
METHOD OF COMPLIANCE:
☒ PRESCRIPTIVE ☐ PERFORMANCE ☐ ENERGY COST BUDGET

ROOF/CEILING ASSEMBLY: (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY: 0. 050
R-VALUE OF INSULATION: R19
SKYLIGHTS IN EACH ASSEMBLY: N/A
U-VALUE OF SKYLIGHT: N/A
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: N/A

EXTERIOR WALLS: (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY: 0. 084
R-VALUE OF INSULATION: R11
OPENINGS (WINDOWS OR DOORS WITH GLAZING):
U-VALUE OF ASSEMBLY: 0. 33 (WINDOW); 0. 56 (GLAZING IN DOOR)
SHADING COEFFICIENT: 0. 24 (WINDOW; 0. 82 (GLAZING IN DOOR)
PROJECTION FACTOR: N/A
LOW E REQUIRED, IF APPLICABLE: YES (WINDOW)
DOOR R-VALUES: R6

WALLS ADJACENT TO UNCONDITIONED SPACE: (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: 0. 20
R-VALUE OF INSULATION: N/A
OPENINGS (WINDOWS OR DOORS WITH GLAZING): GLASS U=0. 56
U-VALUE OF ASSEMBLY:
LOW E REQUIRED, IF APPLICABLE:
DOOR R-VALUES: N/A

WALLS BELOW GRADE: (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: N/A
R-VALUE OF INSULATION: N/A

FLOORS OVER UNCONDITIONED SPACE: (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: N/A
R-VALUE OF INSULATION: N/A

FLOORS SLAB ON GRADE:
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: N/A
R-VALUE OF INSULATION: N/A
HORIZONTAL/VERTICAL REQUIREMENT: N/A
SLAB HEATED: N/A

ELECTRICAL SUMMARY:
ELECTRICAL SYSTEM AND EQUIPMENT:
METHOD OF COMPLIANCE: TO BE DETERMINED (TBD)
☒ PRESCRIPTIVE ☐ PERFORMANCE ☐ ENERGY COST BUDGET

LIGHTING SCHEDULE:
LAMP TYPE REQUIRED IN FIXTURE: F32T8
NUMBER OF LAMPS IN FIXTURE: 2
BALLAST TYPE USED IN THE FIXTURE: ELECTRICAL
NUMBER OF BALLASTS IN FIXTURE: 1
TOTAL WATTAGE PER FIXTURE: 65
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: 1. 2/ 2. 1
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: NOT APPLICABLE

EQUIPMENT SCHEDULES WITH MOTORS:
(NOT USED FOR MECHANICAL SYSTEMS)
MOTOR HORSEPOWER: SEE MECHANICAL SUMMARY BELOW
NUMBER OF PHASES: SEE MECHANICAL SUMMARY BELOW
MINIMUM EFFICIENCY: SEE MECHANICAL SUMMARY BELOW
MOTOR TYPE: SEE MECHANICAL SUMMARY BELOW
NUMBER OF POLES: SEE MECHANICAL SUMMARY BELOW

MECHANICAL SUMMARY:
MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT:
METHOD OF COMPLIANCE:
☒ PRESCRIPTIVE ☐ ENERGY COST BUDGET

THERMAL ZONE:
WINTER DRY BULB: 19°F
SUMMER DRY BULB: 91°F

INTERIOR DESIGN CONDITIONS:
WINTER DRY BULB: 75° F
SUMMER DRY BULB: 75° F
RELATIVE HUMIDITY: 50% (DESIGN POINT ONLY)

BUILDING HEATING LOAD: AS NOTED ON DRAWING H-702

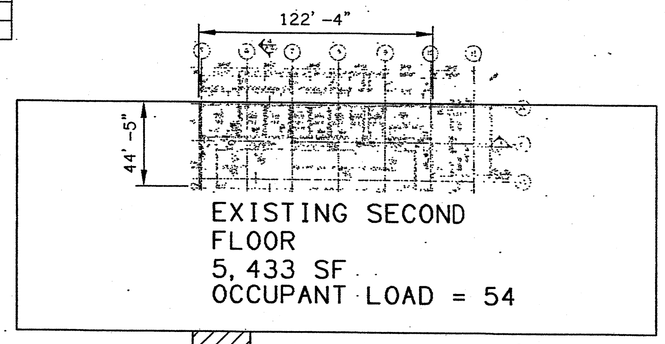
BUILDING COOLING LOAD: AS NOTED ON DRAWING H-702

MECHANICAL SPACING CONDITION SYSTEM: SPLIT-SYSTEM DX

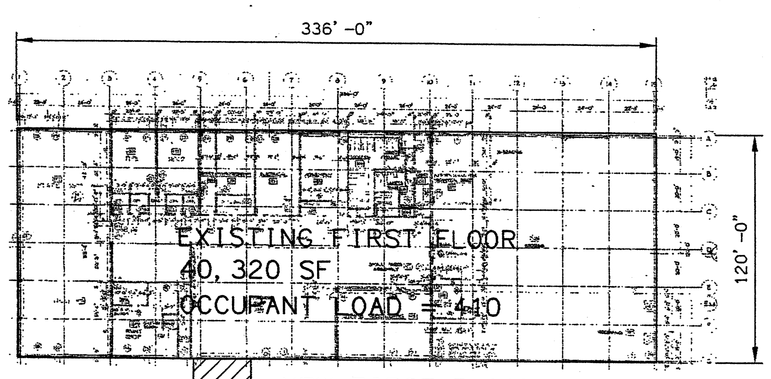
	DXAH-1	DXAH-2	DXAH-3
DESCRIPTION OF UNIT:	SSDX	SSDX	SSDX
HEATING EFFICIENCY:	100%	100%	100%
COOLING EFFICIENCY	9. 35 EER	9. 65 EER	9. 45 EER
HEAT OUTPUT OF UNIT:	12, 287 BTUH	12, 287 BTUH	19, 659 BTUH
COOLING OUTPUT OF UNIT:	13, 787 BTUH	16, 028 BTUH	28, 000 BTUH
BOILER - TOTAL BOILER OUTPUT. IF OVERSIZED, STATE REASON.	N/A		
CHILLER - TOTAL CHILLER CAPACITY. IF OVERSIZED, STATE REASON.	N/A		

LIST EQUIPMENT EFFICIENCIES: SEER @ ARI CONDITIONS:	DXAH-1	DXAH-2	DXAH-3
	10. 20	10. 00	10. 50

EQUIPMENT SCHEDULES WITH MOTORS: (MECHANICAL SYSTEM)
MOTOR HORSEPOWER:
NUMBER OF PHASES:
MINIMUM EFFICIENCY:
MOTOR TYPE: SEE ABOVE
NUMBER OF POLES:



NEW SECOND FLOOR
PLATEN OBSERVATION ROOM
700 SF
OCCUPANT LOAD = 7



NEW FIRST FLOOR
TOOL ROOM
700 SF
OCCUPANT LOAD = 7

NEW CONTROL BUILDING
150 SF
OCCUPANT LOAD = 2

JOHN M. MILLER REGISTERED ARCHITECT 3228 NORTH CAROLINA GREENVILLE, S.C. 2/16/05

NO	DATE	REVISION	BY	CK.	APPR.
0	16-FEB-2005	ISSUED FOR BID/ CONSTRUCTION - STAGE 1 PACKAGE	CAH	JM	

DESIGNED BY C. HOPKINS
CHECKED BY J. MILLER
APPR. BY J. MILLER
CLIENT APPR.

LOCKWOOD GREENE
ENGINEERING & CONSTRUCTION
Spartanburg, South Carolina

SHEET TITLE: APPENDIX B BUILDING CODE SUMMARY

JOB NAME: PHASE VII MARINE MAINTENANCE FACILITY NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MANNS HARBOR, NC

JOB NO. 019064
FILENAME A711
SCALE NONE
REV. NO. 0
DWG. NO. A-711

LGRE13_FSIZE, ARCHITECTURAL E1, 30 X 42 in