

**NOTES:**

- ALL AREAS NOT INDICATED AS CONCRETE OR ASPHALT SHALL BE REVEGETATED WITH GRASS BY PREPARING THE GROUND SURFACE, FERTILIZING, SEEDING AND WATERING. ALL MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LADOTD STANDARD SPECIFICATIONS.
- SIDEWALKS SHALL BE 4" THICK W/WWF 6x6 - W4xW4. WHERE NEW SIDEWALKS JOIN EXISTING, WIDTH & T.O.C. SHALL MATCH EXISTING SIDE WALK.

**EARTHWORK NOTES:**

- ALL EXCAVATED MATERIAL NOT SUITABLE FOR BACKFILL SHALL BE REMOVED TO A DESIGNATED SITE WITHIN THE FACILITY LIMITS.
- EXCAVATIONS FOR STRUCTURAL CONCRETE SHALL BE BACKFILLED WITH EXCAVATED MATERIAL PLACED IN LAYERS NOT THICKER THAN 6 INCHES. COMPACTION OF BACKFILLED MATERIAL UNDER STRUCTURAL CONCRETE SHALL BE SUFFICIENT TO SUPPORT WET CONCRETE. EXCAVATION AND BACKFILL FOR ROADWAY CONSTRUCTION SHALL COMPLY WITH LADOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION. SUITABILITY OF BACKFILLED MATERIAL SHALL BE DETERMINED BY A GEOTECHNICAL ENGINEER.
- THE EXISTING GROUND SURFACE BENEATH FOUNDATIONS PLACED AT OR NEAR GRADE SHALL BE STRIPPED OF ROCK, SHELL FRAGMENTS, LOOSE TOPSOIL, DEBRIS, ORGANIC MATTER AND ANY OTHER DELETERIOUS MATERIALS. STRIPPING SHALL BE TO A MINIMUM DEPTH REQUIRED TO REACH FIRM, UNDISTURBED SOIL.
- SLAB AND BEAM FOUNDATIONS SHALL REST ON UNDISTURBED SOIL AND/OR GRANULAR FILL. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED W/ COMPACTED GRANULAR FILL.
- FLOODING OR PONDING IS NOT AN ACCEPTABLE METHOD OF COMPACTION.
- TREATMENT FOR TERMITE CONTROL SHALL BE AS PER SPEC. SECTION 02361 "TERMITE CONTROL".

**ROADWAY NOTES:**

- PERFORM WORK IN ACCORDANCE WITH THE LADOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION.
- NATIVE SOIL REMAINING AFTER THE CLEARING AND GRUBBING OPERATION SHALL BE USED FOR SUB-BASE MATERIALS WHENEVER POSSIBLE.
- IMPORTED SELECT GRANULAR FILL MATERIAL SHALL BE USED AS BACKFILL AND/OR FILL REQUIRED TO REACH FINAL DESIGN GRADE. THIS MATERIAL SHALL ALSO BE USED FOR BASE AND/OR SUB-BASE BENEATH PAVEMENTS. SELECT FILL MATERIAL SHALL CONFORM TO ALL REQUIREMENTS OF LADOTD STANDARD SPECIFICATIONS.
- AGGREGATE FOR COMPACTED BASE COURSE SHALL BE #610 CRUSHED LIMESTONE AND SHALL CONFORM TO THE REQUIREMENTS IN THE APPLICABLE SECTION OF LADOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION.
- TOLERANCE SHALL BE PLUS OR MINUS 1 INCH FOR SOIL AND 1/2-INCH FOR CRUSHED LIMESTONE FROM REQUIRED ELEVATIONS SHOWN ON DRAWINGS.
- MATERIALS FOR GEOFABRIC IN ROADWAYS SHALL CONFORM TO MIRAFI HP 570, OR EQUAL. THE FABRIC AND INCIDENTAL MATERIALS SHALL MEET THE REQUIREMENTS OF LADOTD. THE GEOFABRIC SHALL BE PLACED ON THE SELECT FILL BASE, IMMEDIATELY PRIOR TO PLACING THE CRUSHED LIMRSTONE LAYER. PLACEMENT METHODS AND OVERLAP DISTANCE SHALL CONFORM TO MANUFACTURER'S AND LADOTD REQUIREMENTS.

**STRUCTURAL NOTES, CODES AND SPECIFICATIONS (LATEST EDITION)**

- AMERICAN CONCRETE INSTITUTE BUILDING CODE ACI 318.
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7).
- INTERNATIONAL BUILDING CODE (IBC). ALL CODES AND STANDARDS REFERENCED HEREIN SHALL BE LATEST EDITION.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

**FOUNDATION PILES:**

- FOUNDATION PILES SHALL BE INSTALLED WHERE SHOWN ON DRAWING S2. PILE CUTOFF ELEVATIONS AND TENSION CONNECTOR REQUIREMENTS ARE PROVIDED IN THE TABLE "PILE CAP SCHEDULE" ON DRAWING S7.
- TIMBER PILES SHALL HAVE A 7" TIP AND 12" BUTT. FINAL INSTALLED LENGTH AFTER CUTOFF SHALL BE 40 FEET MINIMUM.
- TIMBER PILE MATERIAL SHALL BE AS PER PROJECT SPECIFICATION 02463 "TIMBER PILES".
- PILE PRESERVATIVES SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1, USE CATEGORY 4C. CUT OFF ENDS OF PILES SHALL BE TREATED WITH AN AWPA-APPROVED PRESERVATIVE FOLLOWING PILE INSTALLATION.
- FOUNDATION PILES HAVE AN ALLOWABLE COMPRESSION CAPACITY OF 12 TONS (TENSION CAPACITY 7.5 TONS) BASED ON PILE TEST CONDUCTED BY PSI GEOTECHNICAL ENGINEERS, JULY 2009.

**CONCRETE NOTES:**

- ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
- CONCRETE MIXES SHALL BE DESIGNED IN ACCORDANCE WITH ACI 301 AND SHALL BE DELIVERED IN ACCORDANCE WITH THE "SPECIFICATIONS FOR READY-MIXED CONCRETE" (ASTM C-94). ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
- CONCRETE SHALL BE PLACED AND CONSOLIDATED IN ACCORDANCE WITH ACI 304 AND ACI 309. CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH ACI 301. CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI 308. CURING METHOD SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE.
- REINFORCING BARS SHALL BE CLEAN AND NEW CONFORMING TO THE "SPECIFICATION FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT," ASTM A-615, GRADE 60. REINFORCING BARS SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315.
- THE CONTRACTOR SHALL NOTIFY THE COMPANY'S CHIEF INSPECTOR AT LEAST TWO DAYS IN ADVANCE TO INSPECT THE REBARS FOR THE STRUCTURE. NO STRUCTURAL CONCRETE SHALL BE PLACED WITHOUT THE APPROVAL OF THE CHIEF INSPECTOR.
- SHOP DRAWINGS FOR THE PLACEMENT AND FABRICATION OF REINFORCING STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING FABRICATION.
- ALL EXPOSED CONCRETE EDGES, BOTH HORIZONTAL AND VERTICAL, SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.
- EMBEDDED ANCHOR BOLTS, NUTS AND WASHERS SHALL BE ASTM F1554 HEADED TYPE (UNLESS NOTED OTHERWISE) HOT DIP GALVANIZED AND CHASED AFTER FABRICATION.
- ALL MISCELLANEOUS AND STRUCTURAL STEEL INSERTS SHALL BE ASTM A-36 GALVANIZED.
- ALL CONSTRUCTION JOINTS SHALL BE AT APPROVED LOCATIONS AND SHALL BE KEYED AND TREATED FOR GOOD BOND. PROVIDE REBAR DOWELS AS REQUIRED.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. END LAPS OF WWF SHALL BE 9" AND SIDE LAPS SHALL BE 3".
- MINIMUM CONCRETE COVER SHALL BE 3" EXCEPT WHERE NOTED.

**STRUCTURAL STEEL NOTES:**

- ALL STEEL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
- ALL ROLLED STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A-36 OR A-992. ALL PLATES SHALL CONFORM TO ASTM A-36. ALL PIPE SHALL CONFORM TO ASTM A-53 GR. B. ALL SQUARE TUBING SHALL CONFORM TO ASTM A-500 GR. B.
- ALL BOLTS FOR CONNECTION OF STRUCTURAL STEEL SHALL BE ASTM A-325 HIGH STRENGTH STEEL IN BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE OF SHEAR.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY'S "STRUCTURAL WELDING CODE-STEEL" AWS D.1.1 LATEST EDITION.
- COATINGS FOR STEEL SHAPES ARE IDENTIFIED ON DWGS. S8, S9 AND S10.
- LOCATIONS OF ALL CONCRETE PENETRATIONS SHALL BE COORDINATED WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.
- IF NO FILLET WELD SIZE IS SHOWN, FILLET WELD SHALL BE SIZED BY TABLE J2.4 "MINIMUM SIZE OF FILLET WELDS" IN AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION, EXCEPT THAT NO FILLET WELD SHALL BE LESS THAN 3/16".
- SHOP DRAWINGS FOR THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING FABRICATION.
- DAMAGED GALVANIZING SHALL BE REPAIRED USING "GALVO-WELD" OR APPROVED EQUAL.
- ALL CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED. CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS.
- ALL BOLTS SHALL BE HOT DIPPED GALVANIZED AND SHALL HAVE HEAVY HEX NUTS & WASHERS. BOLTS SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE.
- GRATING SHALL BE IKG INDUSTRIES STEEL GRATING, WELDED AND SERRATED (OR APPROVED EQUAL) WITH 1 1/4" X 3/16" BEARING BARS AND HOT DIP GALVANIZED AFTER FABRICATION. GRATING ANCHORS SHALL BE IKG SADDLE CLIPS, GALVANIZED (OR APPROVED EQUAL) EXPOSED ENDS SHALL BE BANDED.
- STAIR TREADS SHALL BE IKG MEBAC Z-TREADS WITH ABRASIVE NOSING, HOT-DIP GALVANIZED AFTER FABRICATION.

**DESIGN LOADS**

**FLOOR LIVE LOADS:**  
50, 100, OR 125 PSF DISTRIBUTED LIVE LOAD  
2000 lbs. CONCENTRATED LIVE LOAD

**ROOF LIVE LOAD:**  
20 PSF (REDUCIBLE)

**SNOW LOAD:**  
GROUND SNOW: 0 PSF  
FLAT ROOF SNOW: 0 PSF

**WIND DESIGN DATA:**  
WIND SPEED: 130 MPH  
WIND EXPOSURE: C  
BASIC WIND PRESSURE: 37.4 PSF  
WIND IMPORTANCE FACTOR: 1.15  
WIND ENCLOSURE: ENCLOSED, 0.180

**EARTHQUAKE DESIGN DATA:**  
MAPPED SPECTRAL RESPONSE-Ss: 12.60%g, S1: 5.5%g  
SEISMIC HAZARD/USE GROUP: GROUP 2  
SEISMIC PERFORMANCE/DESIGN CATEGORY: B  
SEISMIC SNOW LOAD: 0.0 PSF  
SEISMIC IMPORTANCE: 1.25

SOIL PROFILE TYPE: STIFF SOIL (D,4)  
DESIGN SPECTRAL RESPONSE-Sds: 0.1344, Sd1: 0.0880  
ORDINARY STEEL MOMENT FRAMES  
FRAME REDUNANCY FACTOR: 1.00  
FRAMING R-FACTOR: 3.00, FRAME SEISMIC FACTOR (%S): 0.0560, DESIGN BASE SHEAR = 0.0560 W  
ORDINARY STEEL CONCENTRIC BRACED FRAMES  
BRACE REDUNANCY FACTOR: 1.00  
BRACING R-FACTOR: 3.00, BRACE SEISMIC FACTOR (%S): 0.0560, DESIGN BASE SHEAR = 0.0560 W

**FLOOD DESIGN DATA:**  
(PROJECT IS IN FEMA FLOOD ZONE B. 100 YEAR FLOOD ELEVATION IS UNDEFINED)

**SPECIAL LOADS:**  
(BLAST RESISTANCE PRESSURE)

**SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTION FOR SEISMIC RESISTENCE:**  
(NONE)

**UFC CRITERIA FOR CIVIL & STRUCTURAL**

UFC 3-200-10N  
UFC 3-300-10N  
UFC 3-600-01  
UFC 1-200-01  
UFC 4-010-01

ISSUED BY:  
**Waldemar S. Nelson & Co.**  
**FINAL DESIGN**  
29 /OCT /2009

**WALDEMAR S. NELSON AND COMPANY**  
ENGINEERS AND ARCHITECTS  
1200 ST. CHARLES AVE NEW ORLEANS, LA.

**BROADMOOR**  
BUILDING by DESIGN  
BROADMOOR, L.L.C.  
2740 North Arnoult Road  
Metairie, Louisiana 70002  
www.broadmoorllc.com

REV.	DESCRIPTION	DATE	APPROVED	
			LN	TN
0	FINAL DESIGN -	10/29/09		

MS JRB New Orleans Belle Chasse, Louisiana  
**NAVAIRSEFAC CALIBRATION BLDG.**  
STRUCTURAL GENERAL NOTES  
ED FOR COMMANDER, NAVFAC  
APPROVED DATE: -

**NAVIFAC**  
Naval Facilities Engineering Command  
Southern Division, Charleston, SC

RECORD DRAWING DATE 7/1/09	
CODE LD. NO.	-
DRAWING SIZE:	D
SPEC. NO.06-	
CONSTRN. CONTR. NO.	N62467-
NAVIFAC DRAWING NO.	15030874
SHEET	1 OF 12
SO	