GENERAL NOTES

A. GENERAL:

1. APPLICABLE CODES:

   2006 INTERNATIONAL BUILDING CODE
   ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION
   ASCE/SEI 31-03 SEISMIC EVALUATION OF EXISTING BUILDINGS
   ASCE/SEI 41-06 SEISMIC REHABILITATION OF EXISTING BUILDINGS
   STEEL DECK INSTITUTE STANDARD PRACTICE DETAILS SP02

2. DESIGN LIVE LOADS:

EQUIPMENT AREA FLOORS	150 PSF
TYPICAL FLOORS, U.N.O.	100 PSF
ROOF	20 PSF

   * LIVE LOADS REDUCIBLE FOR COLUMNS ONLY

   WHERE THE WEIGHT OF EQUIPMENT OR MATERIALS BEING TRANSPORTED TO LOCATION, OR TEMPORARILY STORED, EXCEEDS THE DESIGN LIVE LOAD, PLANKING SHALL BE PROVIDED ON SLAB AND SHORING PROVIDED BENEATH AREA OF LOADING.

   SEISMIC (500 YEAR RECURRENCE):
   PERFORMANCE LEVEL: IMMEDIATE OCCUPANCY
   SEISMICITY LEVEL: LOW
   LIVE LOADINGS REDUCIBLE
   SITE CLASS B
   S_S = 0.119
   S_1 = 0.047
   S_{DS} = 0.079
   S_{D1} = 0.031

   BASIC STRUCTURAL SYSTEM: CONCENTRIC STEEL BRACED FRAME
   PSEUDO LATERAL FORCE: 4.66 KIPS
   ANALYSIS PROCEDURE = LINEAR STATIC PROCEDURE (LSP)

3. DISCREPANCIES: CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS AT JOB SITE AND BRING TO THE ATTENTION OF FAA RESIDENT ENGINEER ANY DISCREPANCIES.

4. ERECTION AND CONSTRUCTION: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, BRACING, AND OTHER TEMPORARY SUPPORTS AS NEEDED TO SAFELY RESIST ALL LOADING IMPOSED UPON THE STRUCTURE DURING THE CONSTRUCTION PROCESS. PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE LOCAL ORDINANCES, REGULATIONS, AND PROVISIONS OF CODES CITED ABOVE.

5. OTHER TRADES: SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, DUCT, AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

B. BUILDING ERECTION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ALL TEMPORARY GUYS, BRACING, AND OTHER SUPPORTS AS NEEDED TO SAFELY RESIST ALL LOADS TO WHICH STRUCTURE MAY BE SUBJECTED, INCLUDING LOADS FROM ERECTION EQUIPMENT AND OPERATIONS, AND ALL WIND OR SEISMIC FORCES COMPARABLE IN INTENSITY FOR WHICH STRUCTURE WAS DESIGNED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE LATERAL SUPPORT FOR BASE BLDG DURING CONSTRUCTION UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN ERECTED AND CONNECTED PER DRAWINGS.

C. STEEL CONSTRUCTION:

1. SUBMIT SHOP AND ERECTION DRAWINGS FOR ALL STRUCTURAL STEEL WORK. DO NOT BEGIN FABRICATION UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED BY THE RESIDENT ENGINEER.

2. CONTRACTOR SHALL REVIEW ALL CONTRACT DRAWINGS FOR MISCELLANEOUS STEEL.

3. SPLICING OF STRUCTURAL MEMBERS OTHER THAN INDICATED ON THE DRAWINGS SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL

4. ALL WELDING AND HIGH STRENGTH BOLTING MUST BE INSPECTED BY A FAA APPROVED QUALIFIED TESTING LABORATORY. ALL WELDING WILL BE INSPECTED IN ACCORDANCE WITH THE AWS STRUCTURAL WELDING CODE BY AN INSPECTOR CERTIFIED IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.1. SEE SPECIFICATIONS FOR MORE INFORMATION.

5. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED ONLY BY WELDERS QUALIFIED PER AWS D1.1 STRUCTURAL WELDING CODE - STEEL. ALL WELDING SHALL CONFORM TO AWS D1.1, LATEST EDITION. MINIMUM WELD SHALL BE CONTINUOUS 3/16 INCH FILLET UNLESS NOTED OTHERWISE. ELECTRODES SHALL BE LOW HYDROGEN E70XX. EACH WELDER SHALL BE ASSIGNED AN IDENTIFYING MARK. ALL WELDS EXCEPT 5/16 INCH AND SMALLER FILLET WELDS SHALL BE PERMANENTLY MARKED WITH THE WELDER'S IDENTIFYING MARK. THOSE WELDERS PRODUCING UNSATISFACTORY WELDING, EVEN THOUGH THEY HAVE PASSED QUALIFICATION TESTS, SHALL BE IMMEDIATELY RECERTIFIED OR REPLACED WITH QUALIFIED WELDERS.

6. BOLTS: ALL BOLTS FOR STRUCTURAL CONNECTIONS ARE HIGH-STRENGTH BOLTS PER ASTM A325. ALL HIGH-STRENGTH BOLTS SHALL HAVE DIRECT TENSION INDICATORS OR SHALL BE LOAD INDICATOR BOLTS. ALL OTHER BOLTS SHALL BE ASTM A307 AND SHALL BE PROVIDED WITH WASHERS UNDER NUTS.

7. UNLESS NOTED OTHERWISE ANCHOR BOLTS SHALL CONFORM TO ASTM A307. PROTECT BOLTS FROM DAMAGE DURING CONSTRUCTION.

8. GALVANIZING OF STRUCTURAL SHAPES AND FABRICATED PARTS SHALL BE DONE IN ACCORDANCE WITH ASTM A123 AFTER FABRICATION. GALVANIZING OF THREADED PARTS, BOLTS, NUTS AND WASHERS SHALL BE DONE IN ACCORDANCE WITH ASTM A153. UNLESS OTHERWISE NOTED, ALL EXPOSED STRUCTURAL STEEL SHALL BE GALVANIZED.

C. STEEL CONSTRUCTION (CONT):

9. SHOP PAINT ALL STRUCTURAL STEEL EXCEPT GALVANIZED SURFACES, BEARING SURFACES, SURFACES SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING, CONTACT SURFACES FOR ALL SLIP CRITICAL BOLTED CONNECTIONS, OR SURFACES WITHIN 1/2 INCH OF THE TOE OF THE WELDS PRIOR TO WELDING. TOUCH-UP PAINT ALL AREAS SUBJECT TO PAINT ALTERATION AFTER ERECTION. PROVIDE A ONE-COAT SHOP-APPLIED ZINC-RICH PAINTING SYSTEM COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINTING SYSTEM SPECIFICATION NUMBER 12.01.

10. GROUT: GROUT UNDER BEARING PLATES SHALL BE NON-SHRINK AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.

11. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS UNLESS NOTED OTHERWISE:

STRUCTURAL STEEL WIDE FLANGES	A992	(FY=50 KSI)
STRUCTURAL STEEL OTHER SHAPES	A572 GRADE 50	(FY=50 KSI)
STEEL ANGLES, BENT PLATES, BASE PLATES	A36	(FY=36 KSI)
STEEL TUBING	A500 GRADE B	(FY=46 KSI)
STEEL PIPE	A53 TYPE E OR S	(FY=35 KSI)

12. ALL MOMENT CONNECTIONS SPECIFIED SHALL DEVELOP THE REQUIRED SHEAR PLUS 100 PERCENT OF THE LESSER OF THE BEAM OR COLUMN MOMENT CAPACITY. CONNECTION SHALL BE TYPICAL AISC MOMENT CONNECTION UNLESS NOTED OTHERWISE.

13. DRILLED-IN-CONCRETE ANCHORS SHALL BE GALVANIZED OR STAINLESS HILTI KWIK-BOLTS OR EQUAL AS APPROVED BY THE RESIDENT ENGINEER.

14. STRUCTURAL STEEL FABRICATOR SHALL REVIEW ALL CONNECTIONS SHOWN ON THESE DRAWINGS FOR SHEAR CAPACITY, MOMENT CAPACITY, CONSTRUCTION TOLERANCES, AND ERECTION TOLERANCES. CONNECTIONS SHALL DEVELOP THE REQUIRED MOMENT AND SHEAR CAPACITY, AND SHALL BE DETAILED PER THE AISC SEISMIC PROVISIONS.

15. ALL GLASS MUST BE PROTECTED FROM WELD SPLATTER. ANY GLASS MARRED BY WELD SPLATTER MUST BE REPLACED.

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.

GEORGIA REGISTERED No. 18048 PROFESSIONAL ENGINEER ROBERT A. BASS

HARTRAMPF
7000 CENTRAL PARKWAY, SUITE 1475
ATLANTA, GEORGIA 30328
HEI JOB NUMBER: 09033.00

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ATHENS AIRPORT TRAFFIC CONTROL TOWER
ATCT - MAJOR SUSTAIN AND SEISMIC MITIGATION
STRUCTURAL
STRUCTURAL GENERAL NOTES

ATHENS (ATHENS MUNICIPAL AIRPORT) GA

REVIEWED BY
SUBMITTED BY: VIRGIL HOOPER, PE.
APPROVED BY: MARK BEEKMAN

DESIGNED SNG
DRAWN SNG
CHECKED RAB
ISSUED BY: ATLANTA TERMINAL ENGINEERING CENTER
DATE 03/31/2010 JCN 804669
DRAWING NO AHN-D-ATCT-S000 REV

$FILE$ $DATE$ $TIME$ $NAME$