



STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL BE NEW, CLEAN AND STRAIGHT. STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A-992, GRADE 50. ALL OTHER STEEL SHAPES SHALL CONFORM TO ASTM A-501 OR ASTM A500, GRADE B.
2. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL COMPLY WITH THE SPECIFICATIONS, AND THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS- ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN," 1989 WITH ITS LATEST AMENDMENTS OF THE AISC.
3. UNLESS OTHERWISE NOTED, ALL CONNECTIONS SHALL BE AISC TYPE 2, STANDARD FRAMED BEAM CONNECTIONS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT A MINIMUM SHEAR LOAD OF 10 KIPS PER CONNECTION. WHERE BOLTS ARE UTILIZED, PROVIDE 2-BOLTS MINIMUM PER CONNECTION LEG.
4. WELDING SHALL COMPLY WITH THE "STRUCTURAL WELDING CODE" PREPARED BY THE A.I.S.I. MINIMUM WELD SIZE SHALL BE 3/16" FILLET WELD, ELECTRODES SHALL BE E70XX.
5. UNLESS OTHERWISE NOTED BOLTS SHALL COMPLY WITH ASTM A-325 AND ANCHOR BOLTS SHALL COMPLY WITH ASTM A-307.
6. ALL EXTERIOR STEEL SHALL BE GALVANIZED.

DESIGN CRITERIA:

1. INTERNATIONAL BUILDING CODE 2003.
2. REFERENCED CODES: ACI 318 & COMMENTARY, BUILDING CODE FOR REINF. CONCRETE; AISC, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, 9TH EDITION.

DESIGN LOADS:

DESIGN LIVE LOADS USED IN THE DESIGN OF THE NEW PORTIONS OF THE STRUCTURE ARE AS FOLLOWS:

1. LIVE LOADS:
ROOF SNOW LOAD: 30 PSF
2. WIND LOADS:
WIND VELOCITY (3 SEC GUST) 90 MPH
IMPORTANCE FACTOR 1 = 1.15
WIND EXPOSURE CATEGORY (MAIN WINDFORCE-RESISTING SYSTEM): C
WIND EXPOSURE CATEGORY (COMPONENTS AND CLADDING): C



PM&E DESIGN GROUP, P.C.
2712 SOUTHERN BOULEVARD
SUITE 201
VIRGINIA BEACH, VA 23452
PHONE: (757) 233-3951 FAX: (757) 233-8419

NO.	REVISIONS	DATE
-----	-----------	------

DWG. S100	PROJECT NO. 460-06-101	DATE 04/20/06
---------------------	----------------------------------	-------------------------



CHILLER FOR O.R. SUITE AIR-HANDLING UNIT