GENERAL STRUCTURAL NOTES

2007 Solar Decathlon

General Notes

Designated by:

Outside tab will need to be specified in trusses, Tables 2.1.3 and 2.1.4. Other
information not to scale.

STEEL CONNECTIONS AND BRACING

The steel connections and bracing shall be fabricated and installed in
accordance with the American Institute of Steel Construction (AISC)
Specifications. All steel members shall be designed and fabricated
in accordance with the American Institute of Steel Construction
American Society of Mechanical Engineers (ASME) Boiler and
Pressure Vessel Code, Section V. All steel shall be ASTM A500, Grade
B, with a minimum yield strength of 34 ksi. All connections shall be
designed in accordance with the provisions of the AISC specification.

STEEL DESIGN AND PRODUCTION.

Steel beams shall be designed and fabricated in accordance with
the American Institute of Steel Construction (AISC) Structural Steel
Design Specifications, 13th Edition, and the American Society of
Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section
V. All steel shall be ASTM A500, Grade B, with a minimum yield
strength of 34 ksi. All connections shall be designed in accordance
with the provisions of the AISC specification.

WOOD FRAMING.

Wood framing is designed and detailed in accordance with the
National Design Specification for Wood Construction (NDS). All
framing members shall be designed in accordance with the American
Forest & Paper Association (AFPA) Design Equation for Wood
Construction, 13th Edition. All lumber shall be dimensioned softwood,
 complying with the American Lumber Standards Association (ALSA)
standards. All lumber shall be A grade or better, with a minimum
rating of No. 2s or better. All connections shall be designed in
accordance with the American Forest & Paper Association (AFPA)

FOOTINGS

Foundation footings shall be designed and detailed to support the
structure loads, as specified in the structural calculations. All
footings shall be designed in accordance with the American Institute
of Steel Construction (AISC) Foundation Design Specification, 13th
Edition, and the American Society of Civil Engineers (ASCE) Design
Guideline for Footings, 13th Edition. All concrete shall be designed in
accordance with the American Concrete Institute (ACI) Building Code,
Section 21.3. All reinforcing steel shall be A500, Grade B, with a
minimum yield strength of 34 ksi. All connections shall be designed in
accordance with the American Forest & Paper Association (AFPA)

TYPICAL MASONRY DETAILS

The masonry walls are designed and detailed in accordance with the
American Concrete Institute (ACI) Building Code, Section 21.3. All
concrete shall be designed in accordance with the American Concrete
Institute (ACI) Building Code, Section 21.3. All reinforcing steel shall
be A500, Grade B, with a minimum yield strength of 34 ksi. All
connections shall be designed in accordance with the American
Forest & Paper Association (AFPA) Design Equation for Wood

TYPICAL ROOF DECK DETAILS

The roof deck is designed and detailed in accordance with the
American Concrete Institute (ACI) Building Code, Section 21.3. All
concrete shall be designed in accordance with the American Concrete
Institute (ACI) Building Code, Section 21.3. All reinforcing steel shall
be A500, Grade B, with a minimum yield strength of 34 ksi. All
connections shall be designed in accordance with the American
Forest & Paper Association (AFPA) Design Equation for Wood

TYPICAL ROOF COVERING DETAILS

The roof covering is designed and detailed in accordance with the
American Concrete Institute (ACI) Building Code, Section 21.3. All
concrete shall be designed in accordance with the American Concrete
Institute (ACI) Building Code, Section 21.3. All reinforcing steel shall
be A500, Grade B, with a minimum yield strength of 34 ksi. All
connections shall be designed in accordance with the American
Forest & Paper Association (AFPA) Design Equation for Wood

TYPICAL WALL DETAIL DETAILS

The wall detail is designed and detailed in accordance with the
American Concrete Institute (ACI) Building Code, Section 21.3. All
concrete shall be designed in accordance with the American Concrete
Institute (ACI) Building Code, Section 21.3. All reinforcing steel shall
be A500, Grade B, with a minimum yield strength of 34 ksi. All
connections shall be designed in accordance with the American
Forest & Paper Association (AFPA) Design Equation for Wood

TYPICAL FLOOR DETAIL DETAILS

The floor detail is designed and detailed in accordance with the
American Concrete Institute (ACI) Building Code, Section 21.3. All
concrete shall be designed in accordance with the American Concrete
Institute (ACI) Building Code, Section 21.3. All reinforcing steel shall
be A500, Grade B, with a minimum yield strength of 34 ksi. All
connections shall be designed in accordance with the American
Forest & Paper Association (AFPA) Design Equation for Wood