SOLAR DECATHLON 2015

TEAM NY BUFF
UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK

G-001 SECTIONAL PERSPECTIVE
REF. WET MODULE (WORK AREA): 489 SQ. FT.

DRY MODULE (RELAX AREA): 281 SQ. FT.

TOTAL AREA: 770 SQ. FT.


FINISHED SQUARE FOOTAGE COMPLIANCE PLAN
EGRESS WINDOW
24W" X 60H"

1/4" = 1'-0"
G-103 ADA TOUR ROUTE

RAMP SLOPE 1:14

1. ALL THRESHOLDS BELOW 1/4". SEE A-541.
1. The solar envelope is taken from the high point of the site.

2. H.P. = High Point

REFERENCE KEYNOTES

SHEET KEYNOTES

GENERAL SHEET NOTES

C1

G-201 SOLAR ENVELOPE COMPLIANCE EAST

A1

G-201 SOLAR ENVELOPE COMPLIANCE WEST
SOLAR ENVELOPE
18'-0"
GRADE (H.P. OF SITE)
0"

1/4" = 1'-0"

C1
G-202 SOLAR ENVELOPE COMPLIANCE NORTH

SOLAR ENVELOPE
GRADE HP OF SITE

A1
G-202 SOLAR ENVELOPE COMPLIANCE SOUTH

REFERENCE KEYNOTES

SHEET KEYNOTES

GENERAL SHEET NOTES

18' - 0" SOLAR ENVELOPE IS TAKEN FROM HIGH POINT OF SITE.
H.P. = HIGH POINT

CONSULTANTS

CONSTRUCTION DOCUMENTS

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U.S. DEPARTMENT OF ENERGY

SOLAR DECATHLON 2015

LOT NUMBER:
DRAWN BY:
CHECKED BY:
MARK DATE DESCRIPTION

1/4" = 1'-0"
FOOD VEGETATION IS DESIGNED TO BE MOVED BY THE USER OF THE HOME AS PART OF INTEGRATED GROW TABLE PLANTER SYSTEM.
S-102 STEEL SUBSTRUCTURE FRAMING PLAN

GENERAL SHEET NOTES
1. ALL STEEL SHOWN TO BE PAINTED BLACK WITH SEMI-GLOSS, DTM PAINT.
2. REFER TO S-601 FOR AXONOMETRIC.
3. THIS MECHANISM USED ONLY FOR TRANSPORTATION AND RIGGING REINFORCEMENT.

REFERENCE KEYNOTES

SHEET KEYNOTES

NOTE: ALL STEEL SHOWN TO BE PAINTED BLACK WITH SEMI-GLOSS, DTM PAINT.
1. All floor panels shall be 8-1/4” R-40 R-Control EPS SIPs.
2. Wet module SIPs shall contain (2) 9-1/4” x LVLs recessed in panels.
3. Floor SIPs to be constructed to R-Control Specifications.

SIP FLOOR FRAMING PLAN

S-103 SIP FLOOR FRAMING PLAN

S-103
GENERAL SHEET NOTES

1. ALL WALL PANELS SHALL BE 10-1/4" R-40 R-CONTROL EPS SIPs.
2. WALLS TO BE CONSTRUCTED TO R-CONTROL SPECIFICATIONS 06 12 00

REFERENCE KEYNOTES

SHEET KEYNOTES

1. ALL WALL PANELS SHALL BE 10-1/4" R-40 R-CONTROL EPS SIPs.
2. WALLS TO BE CONSTRUCTED TO R-CONTROL SPECIFICATIONS 06 12 00

SIP PLAN

S-106 SIP FLOOR PLAN
1. All roof panels shall be 10-1/4" R-40 R-Control EPS SIPs.

2. Roof SIPs shall contain (2) 10-1/4" x LVL recessed in panel's long axis.

3. Roof SIPs to be constructed to R-Control specifications.
### Exterior Details

- **SIP Sealant**: 1/2" diameter continuous bead
- **8D Box Nails**: @ 6" o.c. each side
- **Wood Screw**: @ 24" o.c.
- **SIP Tape**: at corner
- **2x10 SIP Sealant**: 1/2" diameter continuous bead
- **8 Penny Nail**
- **1x6 Plank Rainscreen**
- **10-1/4" R-40 SIP Roof**
- **SIP Surface Spline**: Both sides of roof
- **5/8" "Type X" Gypsum Wallboard**

### Interior Details

- **SIP Sealant**: 1/2" diameter continuous bead
- **8d Box Nails**: @ 12" o.c.
- **Two Row Staggered**
- **SIP Tape**: Vapor Barrier each joint
- **10d Box Nails**: @ 12" o.c.
- **1/2" OSB**
- **Porcelain Tile**
- **Batt Insulation**
- **1/2" Cement Board**

### Sheet Keynotes

- **General Sheet Notes**
  - Lot Number:
  - Drawn By:
  - Checked By:
  - Copyright:
  - Client:
  - U.S. Department of Energy
  - Solar Decathlon 2015
  - www.solardecathlon.gov

- **Team Name**: UB Dept of Architecture
  - Address: 114 Diefendorf Hall
  - Contact: Info@solardecathlon.gov

- **Sheet Title**: S-511 SIP Section Details

- **Mark Date Description**: 8/17/2015 6:22:02 PM
GRADE (H.P. OF SITE) 0"

T.O. PIERS 1'-0 1/2"

FINISHED FLOOR 2'-8 1/2"

BATT INSULATION BETWEEN JOISTS

8.25" FLOOR SIP

LUMBER AND PLYWOOD AS NEEDED TO SHIM LEVEL

(2) LVL IN DRY MODULE FLOOR SIP

PORCELAIN TILE

3/4" WOOD FLOOR FINISH

W4X13

2X8

1/2" CEMENT BOARD

1/2" OSB

2X10

W12X22

T.O. HOUSE 12'-3 13/16"

2X10

(2) LVLs SPANNING WORK MODULE EMBEDDED IN ROOF SIP

TAPERED 2X5 LUMBER

5/8" A325 BOLT

10-1/4" R-40 SIP ROOF

5/8" TYPE "X" GYPSUM WALLBOARD

CONNECTION TRAY WITH FINISH MATERIAL

S-512 DRY MODULE SIP ROOF SECTION

S-512 DRY MODULE SIP SECTION

CONNECTION DETAILS

1 1/2" = 1'-0"
2X10 FOUNDATION PLANKS

CRANE LIFTING LUGS, TYP OF ALL CROSS BEAMS

W12X22 RAILS, TYP ON MODULE LONG EDGES

2X10 FOUNDATION PLANKS

CRANE LIFTING LUGS, TYP OF ALL CROSS BEAMS

W12X22 RAILS, TYP ON MODULE LONG EDGES

S-601 STEEL SUBSTRUCTURE
1. THIS DRAWING SHOWS STEEL STRUCTURE ONLY. FOR FULL ROOF PLAN, SEE SHEET A-101.
SC-102 GROWLARIUM ROOF PLAN
SC-203 GABLE ENCLOSURE

GROWLARIUM ROOF
1/4" LAMINATED GLAZING SYSTEM
BY GREENHOUSE MFG.

TYP. OF (6)

1'-11 1/8"

2'-3 5/8"

3'-2"

5'-5 5/8"

3'-2"

1'-6 5/8"

5'-5 5/8"

2'-2 1/2"

2'-3 5/8"
PHOTOVOLTAIC PANELS
ENCLOSURE PROVIDED BY GREENHOUSE MFG.
SC-506

S-5 CLIP
S-5S CLAMP

ANGLE 2-1/2" X 2-1/2" X 3/8"
RAFTER ASSEMBLY RA1
TS 4" X 2" X 3/16"

T.O. HOUSE 12'-3 13/16"

SOLAR ENVELOPE 18'-0"
GRADE (H.P. OF SITE) 0"

T.O. BEAMS 14'-6"
FINISHED FLOOR 2'-8 1/2"

ENCLOSURE PROVIDED BY GREENHOUSE MFG.
SC-506

1" = 1'-0"

SC-505 PV MOUNTING
SC-505 RIDGE VENT

SC-505 NORTH CANOPY COLUMN
SC-505 NORTH CANOPY WALL
SC-505 SOUTH CANOPY WALL
C-101 GROUND CONTACT PLAN

REFERENCE KEYNOTES
1. All footings are Ellis STL-10 jacks
2. Footings at deck & ramp will be 4x4 post, typ.
3. 2x10 foundation planks under house

REFERENCE SHEET NOTES

GENERAL SHEET NOTES
1. All footings are Ellis STL-10 jacks
2. Footings at deck & ramp will be 4x4 post, typ.
3. 2x10 foundation planks under house

REFERENCE KEYNOTES
- Potable water storage (3x) 500 ga.
- Waste water storage (2x) 500 ga.
- Compressor
- Ellis Adjustable Foundation Jack over footing base
- 4x4 wood post over footing base

DIAMOND PLATE RAMP TRANSITION

STL-10
STL-14

DIAMOND PLATE RAMP TRANSITION

STL-10
STL-14

2x10 FOUNDATION PLANKS

(2)-1/2" x 3' steel anchor rod
W/ 4"x4" steel top plate,
TYP. OF 39 @ ELLIS PIER &
2x10 FOUNDATION PLANKS

STL-10
STL-14

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1. Team to provide 2" electrical conduit to attach to DOE electrical source.
2. 2" opening in potable water tank on north side for water delivery.
A-111 FIRST FLOOR PLAN
A-112 FIRST DIMENSIONED FLOOR PLAN

WET MODULE

DRY MODULE

1'-0"  6'-0"  12'-8"

1:12 SLOPE

GROWLARIUM

12'-8" 12'-8" 12'-8" 12'-8" 12'-8" 12'-8" 12'-8" 1'-0"

41'-11 3/4" 24'-0"

A1

A-112 FIRST DIMENSIONED FLOOR PLAN
GRADE (H.P. OF SITE)
0" 1/2" 6" 1'-5 1/2"
FINISHED FLOOR
2'-8 1/2"
3/4" WOOD FLOOR FINISH
1/2" CEMENT BOARD
8.25" SIP FLOOR
1/2" OSB
BATT INSULATION
W4X13
W12X22
2X10

GRADE (H.P. OF SITE)
0" 3/4" 1/2" 6"
FINISHED FLOOR
2'-8 1/2"
3/4" WOOD FLOOR FINISH
1/2" CEMENT BOARD
8.25" SIP FLOOR
1/2" OSB
BATT INSULATION
W4X13

GRADE (H.P. OF SITE)
0" 6" 1'
3"
GRADE H.P. OF SITE
A-331 DETAIL CEILING SECTION, TYP.
PROVIDE (2) 8" WOOD SCREW FASTENERS IN WEATHER RESISTANT FINISH PER SPECIFICATIONS. COUNTER SINK FLUSH TO THE GREATEST EXTENT POSSIBLE. NOTE: ROUT N2X8 NAILER TO RECEIVE SCUPPER.
1. I-580 REVEAL TYPE B - AT CEILING
2. I-580 REVEAL TYPE A - AT WALL
3. I-580 REVEAL TYPE C - AT BASE
4. I-580 REVEAL TYPE D - OUTSIDE CORNER
5. I-580 REVEAL TYPE L - INSIDE CORNER
6. I-580 REVEAL TYPE A ELEVATION DETAIL
7. I-580 REVEAL TYPE F - AT OPENING'S MILLWORK
8. I-580 REVEAL TYPE L - AT OPENING'S MILLWORK
9. I-580 REVEAL CONNECTIONS DETAIL
1 1/4" CPVC PIPING

FIRE PRESSURE PUMP

1 3/4" CPVC PIPING

SMOKE DETECTORS

1" CPVC PIPING

1,500 GALLON POTABLE WATER TANK (CONNECTED TO SPRINKLER PUMP UNDER DECK)
Suggested Controller Settings (refer also to controller manual)

Control System Setting: 1

Function Settings
- Protection Functions
  - Max Temp = no
  - Cooling = no
  - Overheat protection = no
  - Freeze protection = yes (40°F)
- Flow Meter = enter flow rate (gal/min)
  - Pump P1 = P1AC SC

Setting Menu
- Max temp tank1 = 176°F
- Min temp tank1 = 20°F
- Max temp tank1 = 50°F
- Min temp pump = 90%
- Mintermep Collector = 850°F

Extra Functions
- Thermostat Function
  - Setpoint = 125°F
  - Hysteresis = 30°F

Notes
1. Auto Air vent can be removed after initial bleeding.
2. May be required by local regulations. Always required if check valve installed on cold supply line.
3. Depending on tank being used the cold water inlet may be on the top or the bottom of the tank. Always refer to the tank manufacturers guidelines before piping.
4. Ball valves are optional components

No. Description
1. Apricus AP-30 Solar Collector
2. Apricus Closed Loop Pump Station
3. Bottom Coil Storage Tank
4. High Amp Relay for Electrical Element
M-901 MECHANICAL ISOMETRIC
SYMBOL LEGEND ABBREVIATION LIST

- AC: ALTERNATING CURRENT
- AWG: AMERICAN WIRE GAUGE
- AFCI: ARC FAULT CIRCUIT INTERRUPTER
- DC: DIRECT CURRENT
- EMT: ELECTRICAL METALLIC TUBING
- ERV: ENERGY RECOVERY VENTILATOR
- GFI: GROUND FAULT CIRCUIT INTERRUPTER
- IRC: INTERNATIONAL RESIDENTIAL CODE
- NM-B: NON-METALLIC SHEATHED CABLE
- PV: PHOTOVOLTAIC
- RHW-2: RUBBER INSULATED, MOISTURE RESISTANT, 75 DEGREE C
- SDBC: SOLAR DECATHLON BUILDING CODE
- THHN: THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED
- AFCI: ARC FAULT CIRCUIT INTERRUPTER
- IRC: INTERNATIONAL RESIDENTIAL CODE
- SDBC: SOLAR DECATHLON BUILDING CODE
- THHN: THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED

ELECTRICAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO NEC, NFC, IRC, AND SDBC.
2. MINIMUM WIRE SIZE FOR AC LOADS SHALL BE #14 AWG.
3. MAXIMUM LOAD FOR ALL BRANCH CIRCUITS IS 80%.
4. ALL EXTERIOR OUTLETS MUST BE TYPE GROUND FAULT OR SUPPLIED BY A GROUND FAULT BREAKER.
5. ALL INSIDE NON-LOCKING 120V 15 AND 20 AMP RECEPTACLES SHALL BE TAMPER RESISTANT AS SPECIFIED IN NEC 406.12.
6. ALL INSIDE 120V 15 AND 20 AMP CIRCUITS SHALL HAVE AFCI CIRCUIT BREAKER AS SPECIFIED IN NEC 210.12.
7. ALL INSIDE 120V 15 AND 20 AMP CIRCUITS SHALL HAVE AFCI CIRCUIT BREAKER AS SPECIFIED IN NEC 210.12.
8. ALL BATHROOMS, OUTDOOR SPACES, CRAWLSPACES, KITCHENS, LAUNDRY ROOMS, UTILITY ROOMS, AND WET BAR SINK ROOMS WITH 120V 15 AND 20 AMP CIRCUITS SHALL HAVE GFCI PROTECTION AS SPECIFIED IN NEC 210.8.
9. ALL ELECTRICAL EQUIPMENT WILL CARRY AN APPROVED TESTING AGENCY’S LISTING OR SHALL HAVE BEEN APPROVED BY THE SOLAR DECATHLON BUILDING OFFICIAL AND SOLAR DECATHLON ELECTRICAL INSPECTORS FOR TEMPORARY USE DURING THE EVENT IN ACCORDANCE WITH SECTION 104.11 OF THE IRC AND SECTION 110.2 OF THE NEC.
10. ARTICLES 240, 250, 310, 430, 440, 480, 690 AND 705 OF THE SHOULDBE REFERENCED FOR PV PANEL DESIGN AND INSTALLATION AS SPECIFIED IN SDBC 6-8.

GROW green energy for all

GROW BuffalO

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NOTE: 2 CIRCUIT TRACK.

CIRCUIT 1 IS IN NORTHERN LIVING ROOM AREA
CIRCUIT 2 IS IN SOUTHERN BED ROOM AREA

28 - SOUTH MODULE LIGHTING
31 - SOUTH MODULE LIGHTING
6,8 - AIR HANDLER
10,12 - WATER HEATER
17 - RANGE HOOD
19 - GROWLARIUM LIGHTING (DF)
34 - MECHANICAL ROOM LIGHTING
26 - NORTH MODULE LIGHTING
32 - OUTDOOR LIGHTING (DF)

ELECTRICAL SYMBOL LEGEND

- 120V DUPLEX RECEPTACLE
- 120V GFI DUPLEX RECEPTACLE
- 240V SINGLE RECEPTACLE
- CURRENT TRANSFORMER (CT)
- CIRCUIT BREAKER
- UTILTY METER
- SINGLE GANG SWITCH
- THREE WAY SINGLE GANG SWITCH
- WIRED CONNECTION
- HOME RUN
- FLUID VIEW 12V Wet Location LED Strip Light
- FLOOR LAMP
- TIMES SQUARE LIGHTING XT13 WITH 40° REFLECTOR
- TIMES SQUARE LIGHTING XT13 WITH 20° REFLECTOR
- TIMES SQUARE LIGHTING SX 7 WITH 40° REFLECTOR
- CAR CHARGER
- GRID INTERCONNECTION
- GREE A19 BULB
- EUREKA LIGHTING PIXEL 4526
- TECH LIGHTING GIA BATH 24-INCH LED

E-103 ELECTRICAL PLAN

SHEET TITLE
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NONE: PROJECT IS PUBLIC DOMAIN
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### General House Loads

<table>
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<tr>
<th>Panel</th>
<th>Bus</th>
<th>Fixed</th>
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<th>Value</th>
<th>Unit</th>
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**Calculation: N/A**

### ELECTRICAL SCHEDULE

**Panel:** None

<table>
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<th>Component</th>
<th>Appliance</th>
<th>Location</th>
<th>Amp</th>
<th>Value</th>
</tr>
</thead>
</table>

**Total Current:** N/A

**Total KVAR:** N/A
NOTE:
INITIAL MEASUREMENTS AND ANCHOR LOCATIONS ARE TO BE VERIFIED ON SITE PREVIOUS TO DRILLING.
FOLLOWING THIS, FOUNDATIONS MAY BE INSTALLED.

CONTINUOUS 2X10 LUMBER PLATES
1.5" STEEL ANCHORS, 36" LONG, TYP. OF (18)

SPREADER BEAM

WET MODULE TO BE BOLTED INTO PLACE

PROFESSIONAL CRANE OPERATOR ON SITE

MODULES TO BE SEATED ON PIERS AND INTO MODULE SIMULTANEOUSLY

NOTES

CONSTRUCTION OVERVIEW
1. Site Zoning
2. House Foundations and anchors
3. Crane modules in
4. Canopy foundations
5. Steel Canopy Erection
6. Growlarium + Glazing + Seals
7. Deck
8. Finish work

DISASSEMBLY OVERVIEW
1. Removal of Finishes
2. Deck
3. Growlarium
4. Canopy
5. Foundations
6. House Modules
7. House Foundations
8. Cleanup

CONSTRUCTION, detailed sequence

1. Site Zoning
   1. Set up transit
   2. sight zones, chalk them out
   3. sight corners
   4. mark all exterior points
   - chalk boundaries (chalk line, sidewalk chalk)
   - nail grid points

2. House foundations and anchors
   1. Drill anchor locations
   2. House foundations and anchors
   3. Steel Foundations
   4. anchor in place
   5. 2x4 braces as needed

3. Crane modules in
   1. supervise craning operations
   2. sight piers
   3. bolt together
   4. check for level

4. Canopy foundations
   1. Ready anchors, piers, bolts

5. Steel Canopy Erection
   1. organize pieces
   2. lull pieces into place, laying on ground
   3. bolt piers to base, attach beam
   4. lull into place
   5. scissor lift operators bolt in place
   6. use 2x4 braces as needed

6. Growlarium + Glazing + Seals
   1. scissor frame into place, bolt
   2. scissor lift glass panels in place
   3. seal gaps

7. Deck
   1. 4x4 columns into place
   2. lull modules into place
   3. attach deck top
   4. Finish work

8. Finish work
   1. plants
   2. wiring
   3. furniture

CONSTRUCTION DOCUMENTS

A1 O-101B WET MODULE

A4 O-101C DRY MODULE

A1 O-101 SITE ZONING

A4 O-101A HOUSE FOUNDATIONS

C1 C4
EXTERIOR FOUNDATIONS ANCHORED TO TARMAC, TO RECEIVE DECK AND CANOPY STRUCTURE.

STEEL ERECTION STARTS AT THE NORTHWEST AND CONTINUES SOUTHWEST.

NOTE: SCISSOR LIFT MAY BE NECESSARY FOR WORK AT HEIGHT.

CANOPY STRUCTURE TO BE INSTALLED BY MFG. WITH STUDENTS AS NEEDED.

RAMP TERMINATES WITH DIAMONDPLATE TRANSITION TO TARMAC SURFACE.

NOTE: DECK MODULES START NORTHWEST, AND WRAP THE HOUSE ENDING WITH THE RAMP TO THE SOUTH.

ROLLING PLANTERS PLACED UNDER CANOPY.

STEEL STAGING AREA.

STEEL ERECTION STARTS AT THE NORTHWEST AND CONTINUES SOUTHWEST.

DECK MODULES START NORTHWEST, AND WRAP THE HOUSE ENDING WITH THE RAMP TO THE SOUTH.

ROLLING PLANTERS PLACED UNDER CANOPY.

O-101E CANOPY FOUNDATIONS

O-101F STEEL CANOPY ERECTION

O-101G GROWLARIUM + DECKING

O-101H FINISH WORK
NOTE: SCISSOR LIFT MAY BE NECESSARY FOR WORK AT HEIGHT

EXTERIOR FOUNDATIONS ANCHORED TO TARMAC, TO RECEIVE DECK AND CANOPY STRUCTURE TO BE INSTALLED BY MFGR. WITH STUDENTS AS NEEDED.

O-103 PACK INTERIORS

O-103 GROWLARIUM DISASSEMBLY

O-103 DECK REMOVAL

O-103 REMOVE CANOPY PIERS
O-104 DEPARTURE ZONING

(4) PICK POINTS TYP. @ EACH CORNER
STEEL CABLE FROM RIGGING COMPANY

O-104 WET MODULE DEPARTURE

(4) PICK POINTS TYP. @ EACH CORNER
SPREADER BEAM
WET MODULE TO BE UNBOLTED

O-104 DRY MODULE DEPARTURE

(4) PICK POINTS TYP. @ EACH CORNER
STEEL CABLE FROM RIGGING COMPANY
MODULES TO BE UNBOLTED FROM ADJACENT MODULE AND FROM PIERs

O-104 FOUNDATION REMOVAL

REMOVE ANCHORS AND 2X10 FOUNDATION

WET MODULE TO BE UNBOLTED FROM ADJACENT MODULE AND FROM PIERs
MODULES TO BE UNBOLTED FROM ADJACENT MODULE AND FROM PIERs

STEEL CABLE FROM RIGGING COMPANY
D1 O-901 1. HOUSE FOUNDATIONS
D2 O-901 2. WET MODULE
D4 O-901 3. DRY MODULE
D6 O-901 4. WATER TANKS
B1 O-901 5. CANOPY FOUNDATIONS
B2 O-901 6. CANOPY
A2 O-901 9. GROWLARIUM + SOLAR
B6 O-901 8. DECK
A4 O-901 10. FINISHES