

**GENERAL NOTES**

Design according to International Residential Code (2009) New Jersey Edition  
U.S. Department of Energy Building Code

All Materials used are to be installed in strict accordance with manufacturer's recommended details and instructions

Use Group: 5-A

Design Loads: Roof 20 PSF (live load + dead load)  
Floor 100 PSF (live load + dead load)

**Snow Loads**

Ground Snow load: 25 PSF  
Exposure Category B  
Exposure factor: Fully Enclosed Ce = 0.9  
Thermal factor: Ct 1.0  
Importance Factor: I = 1.0

**Live Loads**

Solar Decathlon Controls for some cases\*  
Residential  
Public Rooms and Corridors servicing : 100 PSF  
Private : 40 PSF  
Roofs  
Ordinary Flat, Pitched, and Curved Roofs : 20 PSF

**Structures, Materials, Loading, and Codes**

Codes and Standards  
IBC 2009 - New Jersey Edition  
ASCE 7 - 05 : Minimum Design Loads for Buildings and Other Structures  
AISC 360 - 05 : Specifications for Structural Steel Buildings  
AC1318 - 08 : Building Code Requirements for Structural Concrete and Commentary

**Material Properties**

Concrete: Fc = 5000 PSI  
Ec = 4030 KSI  
Bi = 0.80  
Miscellaneous Steel : A992 Grade 50  
Fy = 36 KSI  
Fu = 58 KSI  
Es = 29000 KSI  
Reinforcing Bars : Fy = 60 KSI  
Es = 29000 KSI

**Location**

Temporary Location : National Mall, Washington D.C.  
Permanent Location : South of Point Pleasant, NJ

**Structure**

This structure is precast reinforced concrete system. All roof, wall, and floor panels are composed of one lare of Expanded Polystyrene (EPS) Foam sandwiched between two layers of concrete. The building is founded on a spread footing grid. The lateral force system is comprised two RC shear walls around the perimeter and three RC shear walls forming an I- Shape.

**PRE-CAST INSULATED PANELS**

1. Pre-cast Insulated Panels to be provided by Northeast Precast. Refer to Northeast Precast 'Builder Guideline Booklet' and follow all manufacturer recommended specifications and code requirements as dictated by the International Residential Code (IRC 2009)

2. Excavation: Refer to Northeast Precast 'Builder Guideline Booklet' and Excavator's Checklist found in Appendix C of this manual.

3. Concrete: Refer to Northeast Precast 'Builder Guideline Booklet' and the Concrete Work Checklist found in Appendix C of this manual.

4. Concrete: Refer to Northeast Precast 'Builder Guideline Booklet' and the Framing Checklist found in Appendix C of this manual.

**ELECTRICAL**

- All work shall be performed in accordance with the latest edition of the National Electric Code and all applicable rules and regulations.
- Contractor shall make arrangement with Public Service Gas & Electric Company to establish electric service, arrangement for all required inspections and furnish all labor and materials required for establishing electric service.
- Service shall be rated at 200 amp., 110/220 volt, 1-phase 3W and shall include a service panel Nema 1 enclosure, with 200 amps MCB, and 42 poles. Branch breakers as required. All circuits to be labeled at panel-box door.
- Electric Contractor shall furnish outlets: general convenience outlets in basement, duplex receptacles on all floors, and an exterior outlet. Maximum of six (6) outlets per circuit.
- General lighting shall be wired to panel 1600 watts per circuit maximum.
- Electric equipment shall be wired on separate circuit as required by code. Contractor to provide suitable wiring for clothes dryer, refrigerator, gas stove, heating - A/C units, toaster, and other similar appliances.
- All wiring shall be copper type, THW, 600 volt. Wires shall be sized in accordance with N.E.C. However, no wire shall be less than 14 AWG. Service wire may be aluminum type.
- Guarantees: Equipment, wiring and workmanship for a period of one (1) year from date of occupancy by Homeowner. All wiring shall be warranted for an additional one (1) year from failure to carry its designated load.
- Contractor shall submit to Builder for approval specifications and/or samples of all equipment and materials to be used on this project.

**PLUMBING**

- Plumbing installation shall conform to the National Standard Basic Plumbing Code and any applicable Local Codes and Regulations.
- Branch supplies to each fixture or equipment shall be valved.
- Minimum slope on sanitary waste shall be 1/8" per foot.
- Water piping shall be pitched to provide complete drainage by the lowest fixture.
- A clean-out shall be provided at every 50'-0" on horizontal runs and at each change of direction 45 degrees or greater.
- Soil or vent piping shall be PVC. All above ground water piping will be copper tubing type 'L'.
- Contractor shall install cap flashing on all pipes passing through roof.
- Hot and cold water branches shall be provided with air chambers at their up most points.
- Contractor shall submit to builder specifications and/or samples for approval of all equipment used on the project.
- Provide exterior hose bib on front and rear of each unit, including back-flow preventor.
- Contractor shall make all tests as required by authorities having jurisdiction over project.
- Contractor shall guarantee for period of one (1) year all labor, workmanship and equipment. All piping shall be guaranteed for a period of two (2) years as required by HOW Approved Standards. Factory warranties on equipment shall be extended to Homeowner and/or Builder.
- All water lines shall be routed such as to prevent same from freeze-up under extremely low ambient temperatures.

**HEATING AND AIR CONDITIONING**

- Contractor to comply with all Federal, State, and Municipal laws, and all codes, ordinances, rules and regulations applicable to the project.
- Ductwork:
  - All ductwork to be constructed with a smooth inside surface.
  - Ductwork to be galvanized steel, weights and construction details will be in accordance with latest ASHRAE Guide in SMACNA.
  - Dimensions given on drawing for main ductwork are clear I.D. Run-outs shall be of size noted on plan.
- Run-outs shall have V.C. damper at take-off point. Riser within wall cavity shall be insulated from exterior wall.
- Contractor to install and balance air system to provide room temperatures (heating and cooling cycle) as required by HOW Approved Standards and ASHRAE Guide.
- Contractor shall submit to builder for approval:
  - Shop drawing in equipment, including day-night thermostat.
  - Sample of air outlets and return grills.
- Contractor to start and operate system for all homes giving Builder operating manual and instructions. Contractor to instruct Homeowner on system operations.
- Guarantees:
  - Equipment, labor, and workmanship for a period of one (1) year from date of Homeowner occupancy.
  - Two (2) year Warranty on all equipment. Contractor to extend all factory warranties to Builder and/or Owner.
- Heating Cycle: System to deliver 70° at 0° outdoors with a 15 MPH prevailing wind.
- Cooling Cycle: System to deliver 75° at 95° outdoors with 50% relative humidity.

**LATERAL LOADS**

<b>A. Wind:</b>			
1) Building height (at roof):	18ft.		
2) Exposure:	B		
3) Basic wind speed:	100 MPH		
4) Importance factor (Iw):	1.15		
5) Building category:	1		
6) Wind pressures:			
a) Velocity pressure exposure coefficient (Kh):	1.04		
b) Wind directionality factor (Kd):	1.0		
c) Topographic wind factor (Kzt):	1.0		
d) Windward (CP):	+0.7		
e) Gust effect factor (G):	0.85		
f) Internal pressure coefficient (GC)pi:	±0.18		
g) Windward pressures:			
0 - 20 FT.	+15.2 PSF		
20 - 40 FT.	+20.1 PSF		
40 - 60 FT.	+21.7 PSF		
60 - 80 FT.	+22.5 PSF		
h) Leeward pressures (wind parallel to short direction):			
L/B taken parallel to short dimension:			
Leeward Factor (CP) = -0.43			
0 - 20 FT.	-22.5 PSF		
20 - 40 FT.	-22.5 PSF		
40 - 60 FT.	-22.5 PSF		
60 - 80 FT.	-22.5 PSF		
i) Leeward pressures (wind parallel to long direction):			
L/B taken parallel to long dimension:			
Leeward Factor (CP) = -0.3			
0 - 20 FT.	-22.5 PSF		
20 - 40 FT.	-22.5 PSF		
40 - 60 FT.	-22.5 PSF		
60 - 80 FT.	-22.5 PSF		
j) Main Roof: -	-18.1 PSF		
Roof dead load exceeds the wind suction; therefore, wind uplift is neglected in the design of the roof.			
k) Side walls:			
Sidewall factor (CP) = -0.7			
0 - 20 FT.	-19.7 PSF		
20 - 40 FT.	-19.7 PSF		
40 - 60 FT.	-19.7 PSF		
60 - 80 FT.	-19.7 PSF		

**REINFORCED CONCRETE**

1. Structural Concrete Strengths and Types used in this project shall be as follows:

**LOCATION IN STRUCTURE f<sub>c</sub> (PSI)  
AGGREGATE**

footings, caissons	4000	normal
weight		
slab on grade	3000	
normal weight		
walls and columns	4000	
normal weight		
beams and slabs	4000	normal
weight		
slab on steel deck	3500	normal
weight		
equipment pads and curbs	4000	
normal weight		
lean concrete	2000	
normal weight		

- f<sub>c</sub> is the Concrete compressive strength at 28 days or at 7 days for high early strength concrete.  
- Mix class as defined in the specifications.

- All concrete mixes shall comply with the requirements of the building code and the ACI 318. Mix Designs for each type and strength shall be prepared by contractors and tested by an independent testing laboratory. The mix designs shall then be submitted to the engineer for review and approval
- Portland cement shall conform to the ASTM C 150. Where concrete is in contact with soil, the type of exposure shall determine the cement type:
  - Severe Sulfate exposure Type V
  - Moderate Sulfate exposure Type II
  - All other Type I

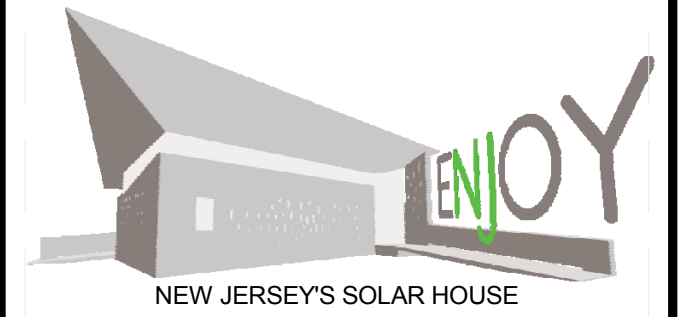
- Contractor shall determine the exposure by testing or other suitable means.
- Fly ash may be used in concrete mixes. The fly ash shall conform to the ASTM C618, Class F and its addition shall not exceed 15% of the cement weight.
- Normal weight aggregate shall conform to the requirements of ASTM C33
- Lightweight aggregate shall conform to the requirements of ASTM C330 and ASTM C157.
- Concrete forms shall be laid out and constructed to provide the specified cambers indicated on the structural drawings and shall comply with requirements of ACI 318.
- The projecting corners of columns, beams, walls, etc. shall be formed with 3/4 inch chamfer, unless otherwise noted on architectural drawings.
- Construction joints shall be doweled, keyed and the surfaces shall be cleaned and laitance removed. Alternatively, where approved by engineer, provide joints cleaned and roughened to 1/4 inch amplitude by mechanical methods.
- Location of construction joints shall be indicated on structural drawings. Provide waterstops for all construction joints below water table.
- Reinforcing bars shall conform to the requirements of ASTM A615, Grade 60. Reinforcing bars, which are to be welded, shall conform to applicable ASTM and AWS specifications.
- All reinforcing bars marked "continuous" shall be tension spliced, unless otherwise shown on drawings.
- All bars at non-continuous ends shall have a standard hook.
- Provide development and splices of reinforcement according to the typical detail tables.
- Unless otherwise noted, all dowels shall be fully developed in tension.
- Dowels to walls and columns shall match the corresponding reinforcing of the wall or column.
- welded wire fabric shall conform to ASTM A185. Use only flat sheets.
- Minimum lap of welded wire fabric shall be 6 inches or one full mesh, whichever is greater.
- All reinforcing steel shall be securely held in order to maintain its position while concrete is poured. Chairs, ties, spacers, additional bars and stirrups, etc. shall be provided by the contractor.
- Contractor shall coordinate and install all required embedded items, sleeves, pockets, etc. prior to concrete placement, refer to typical details of penetrations for limitations on their positioning in respect to reinforcing. Do not cut any reinforcing that might interfere with embedded items in placement.
- Mechanical pipes and/or electrical conduits shall not pass through concrete columns and beam, unless specifically detailed on drawings.
- No aluminum shall be embedded in concrete.
- Contractor shall notify testing agency and owner, 24 hours before pouring of concrete, for inspection of reinforcement and installations have been inspected and approved by the testing agency.
- Concrete cast on sloped surfaces shall begin at the lowest elevation and continue monolithically toward the higher elevation.

**SLABS ON GRADE**

- Slabs on grade shall be placed on material capable of sustaining 2000 PSF without significant settlement relative to the buildings foundations.
- Slab on grade backfill shall be compacted to high density equivalent to a minimum of 98% maximum density at optimum moisture determined by soil compaction test (ASTM D698)
- A minimum of 6 inches thick compacted granular layer is to be placed under all grade slabs. Granular material may be sand, sand-gravel, sand and crushed stone, 3/4" max recycled concrete aggregate material with less than 10% fines, or a combination of these materials. A top layer of at least 1 inch of sand shall be provided.
- A vapor barrier according specifications shall be placed below the compacted granular level.
- Isolation joints shall be provided at slab edges abutting concrete elements and contraction and construction joints according to typical details.

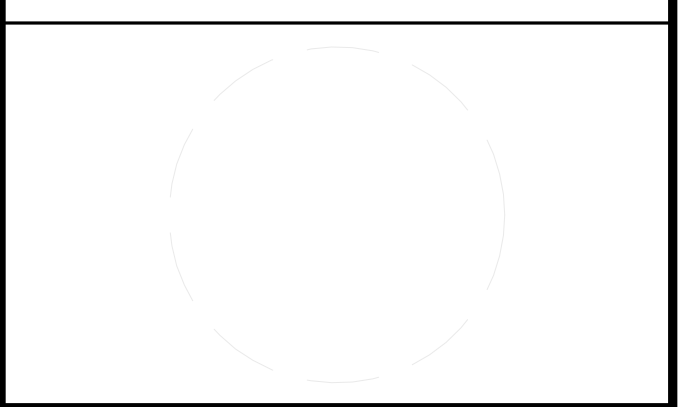
**GENERAL SYMBOL LEGEND**

MARK	DESCRIPTION
ROOM NAME 150 SF	ROOM DESIGNATION
	ELEVATION MARKER
	SECTION
	ELEVATION TAG
	COLUMN GRID TAG
	NORTH ARROW
	GRAPHICAL SCALE



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B	08/01/2011	AS-BUILTS
MARK	DATE	DESCRIPTION

LOT NUMBER: LOT 104  
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**SHEET TITLE**

**GENERAL NOTES**

**G-000**



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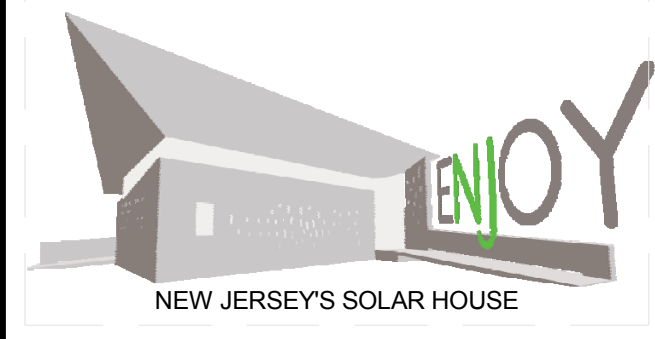
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DESIGN INTENT

THE ENJOY HOUSE IS CONCEPTUALLY CONCEIVED AS A PARADIGM THAT INTEGRATES PASSIVE STRATEGIES, NEW SOLAR TECHNOLOGIES, AND CONTEMPORARY ARCHITECTURAL IDEAS WHOSE PROTOTYPE CHALLENGES TRADITIONAL BUILDING TECHNIQUES AND SUGGESTS A NEW METHOD OF APPROACHING HIGH EFFICIENCY HOUSING. MODULARITY COINCIDES WITH THE USE OF SUCH AN INNOVATIVE MATERIAL AS PRECAST INSULATED CONCRETE PANELS THAT ARE SELDOM CONSIDERED A CONVENTIONAL RESIDENTIAL BUILDING MATERIAL. ASSEMBLY OF MODULAR COMPONENTS ALLOWS FOR A FASTER CONSTRUCTION PROCESS REDUCING LABOR COSTS AND ELIMINATING THE NEED FOR ADDITIONAL TRADESMEN. HIGH THERMAL MASS PROPERTIES OF THE PRECAST INSULATED CONCRETE PANELS CONTRIBUTE TO PASSIVE CONTROL OF A SPACE'S CLIMATE.

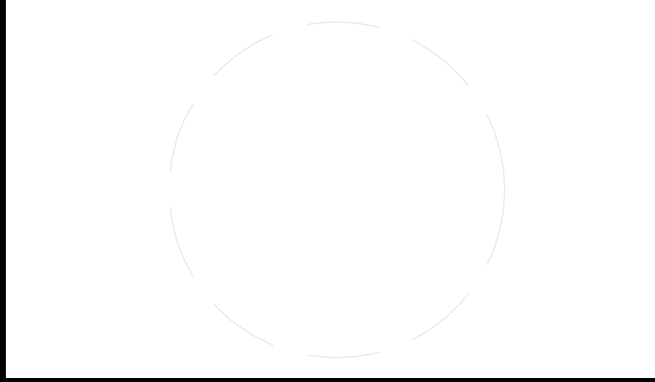
THE ENJOY HOUSE DESIGN IS SITUATED AROUND TWO MAIN CONCEPTS; THE CORE OF THE HOUSE WHICH CONTAINS THE INTEGRATED SYSTEMS AND ACCESSIBILITY. THE HOUSE STRIVES TO CREATE A NEW IMAGE OF A HIGHLY PERFORMATIVE HOUSE WITH AN APPEALING AESTHETIC. THE ROOF IS A BOWL SHAPE CALIBRATED FOR THE OPTIMAL SUN ANGLE AND FOR RAIN COLLECTION; HIDING ALL THE PHOTOVOLTAICS AND SOLAR COLLECTORS THAT CARRY THE STIGMA OF BEING UNATTRACTIVE. THE ROOF OVERHANGS ON THE SOUTH-FACADE TO BLOCK SUNLIGHT IN THE SUMMER AND ALLOW FOR IT TO PENETRATE THE HOUSE IN THE WINTER. THE ROOF ACTS ON MULTIPLE LEVELS TO RESPOND TO BOTH VISUAL AND PASSIVE STRATEGIES. THE OPERABLE WINDOWS IN THE HOUSE ARE PLACED INTENTIONALLY FOR CROSS VENTILATION.

THE INTERIOR HIGHLIGHTS THE CONCRETE'S ESSENCE WHILE STILL CREATING AN ATMOSPHERE OF RELAXATION. PANELITE IS USED AS AN ACCENT; ITS BRIGHT COLOR AND TRANSLUCENCY GIVES THE INTERIOR SPACES AN AIR OF ELEGANCE AND REFINEMENT. WOOD IS USED IN ORDER TO CREATE A TACTILE ENVIRONMENT; THIS WILL ALLOW PEOPLE WHO HAVEN'T PREVIOUSLY THOUGHT OF A CONCRETE HOUSE AS A HOME TO RETHINK THEIR POSITION. CENTERING THE CORE MAKES CIRCULATION SIMPLE AND GIVES THE HOUSE A SENSE OF FREEDOM.



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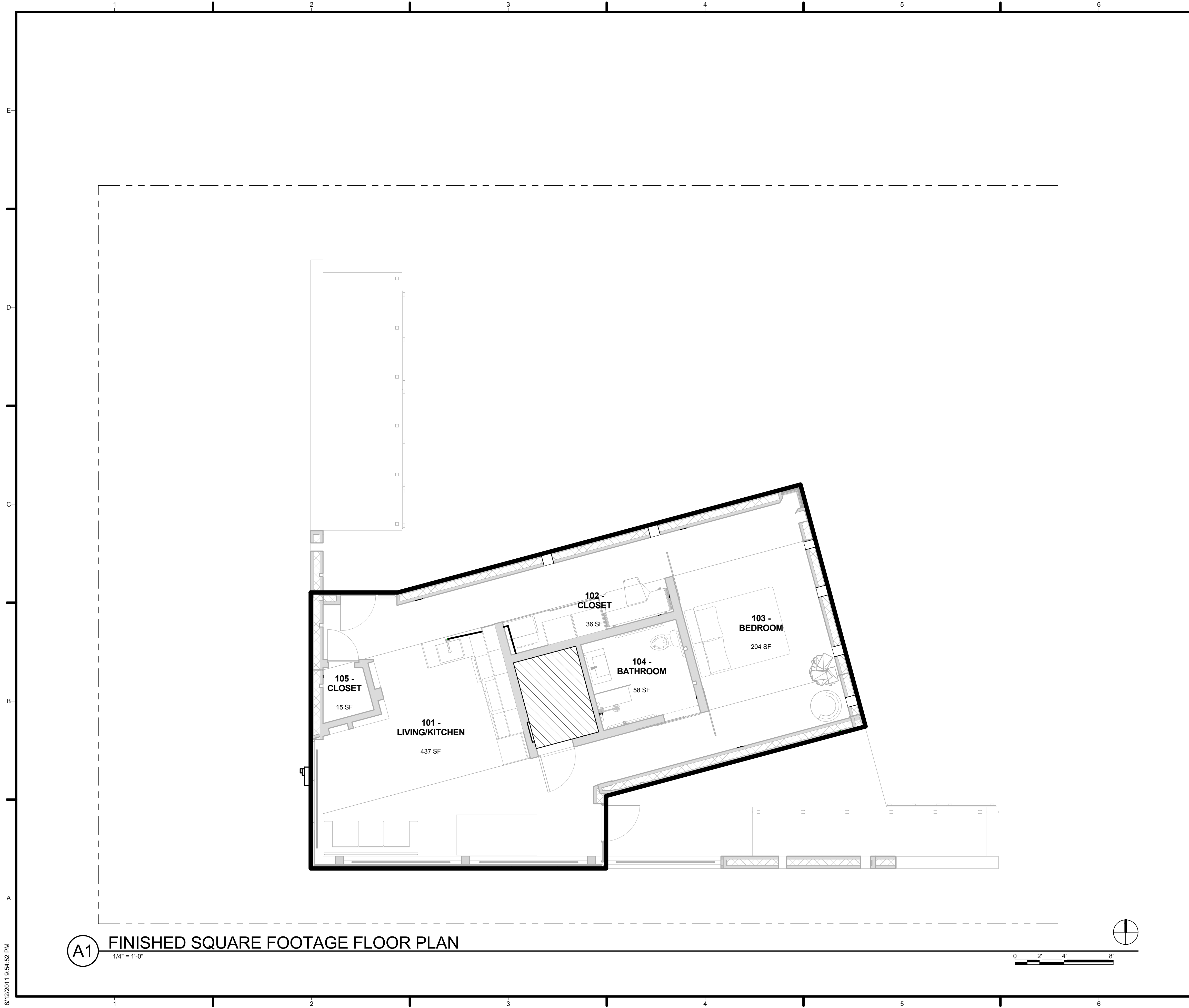


MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
 COPYRIGHT: NONE: PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
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AREA SCHEDULE	
ROOM	SIZE
101 - LIVING AREA	Not Placed
103 - BEDROOM	204 SF
102 - CLOSET	36 SF
104 - BATHROOM	58 SF
BEDROOM	Not Placed
Room	Not Placed
Room	Not Placed
101 - LIVING/KITCHEN	437 SF
105 - CLOSET	15 SF
TOTAL SQUARE FOOTAGE	
922 SF	

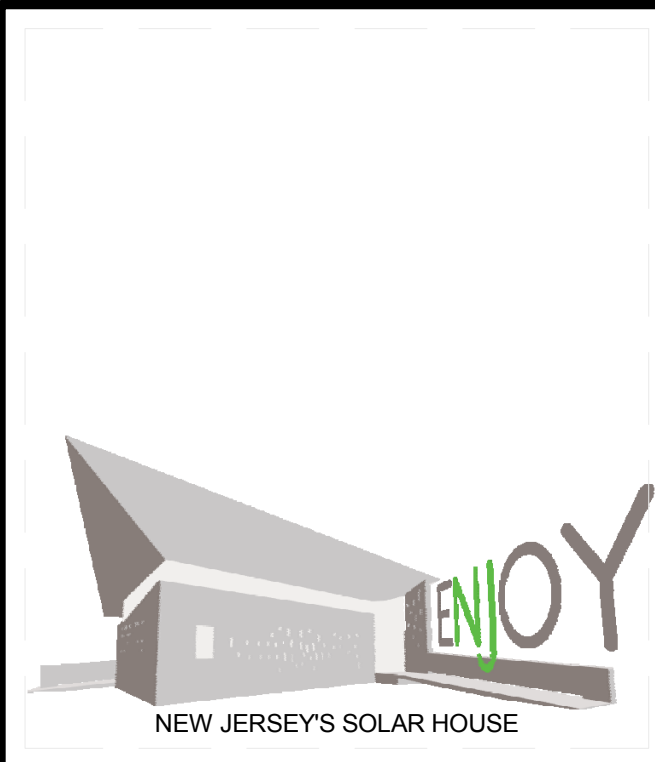
**GENERAL SHEET NOTES**

A DETACHED SINGLE-FAMILY HOUSE WITH 922 ABOVE-GRADE FINISHED SQUARE FEET, PLUS 32 ABOVE-GRADE UNFINISHED SQUARE FEET IN A UTILITY ROOM.

THE SQUARE FOOTAGE WAS CALCULATED USING ANSI Z765-2003.

THE MECHANICAL CLOSET DOES NOT MEET THE REQUIREMENTS OF A "FINISHED AREA" BASED ON ANSI Z765-2003 AND THEREFORE IS NOT INCLUDED IN THE TOTAL SQUARE FOOTAGE OF THE HOUSE.

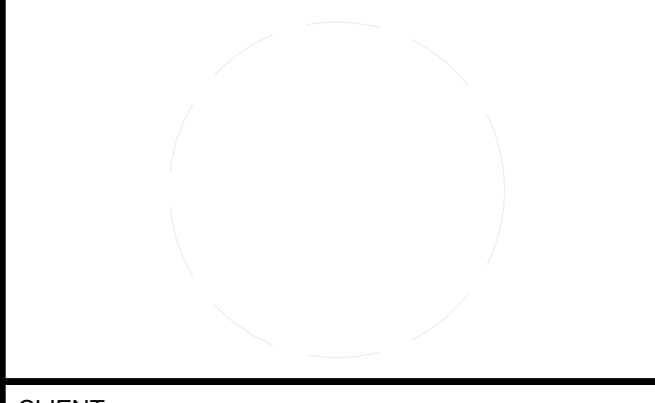
FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.



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MARK	DATE	DESCRIPTION
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A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
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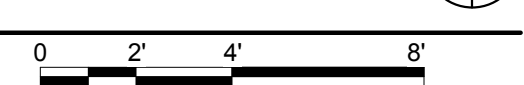
SHEET TITLE

**FINISHED SQUARE FOOTAGE COMPLIANCE PLAN**

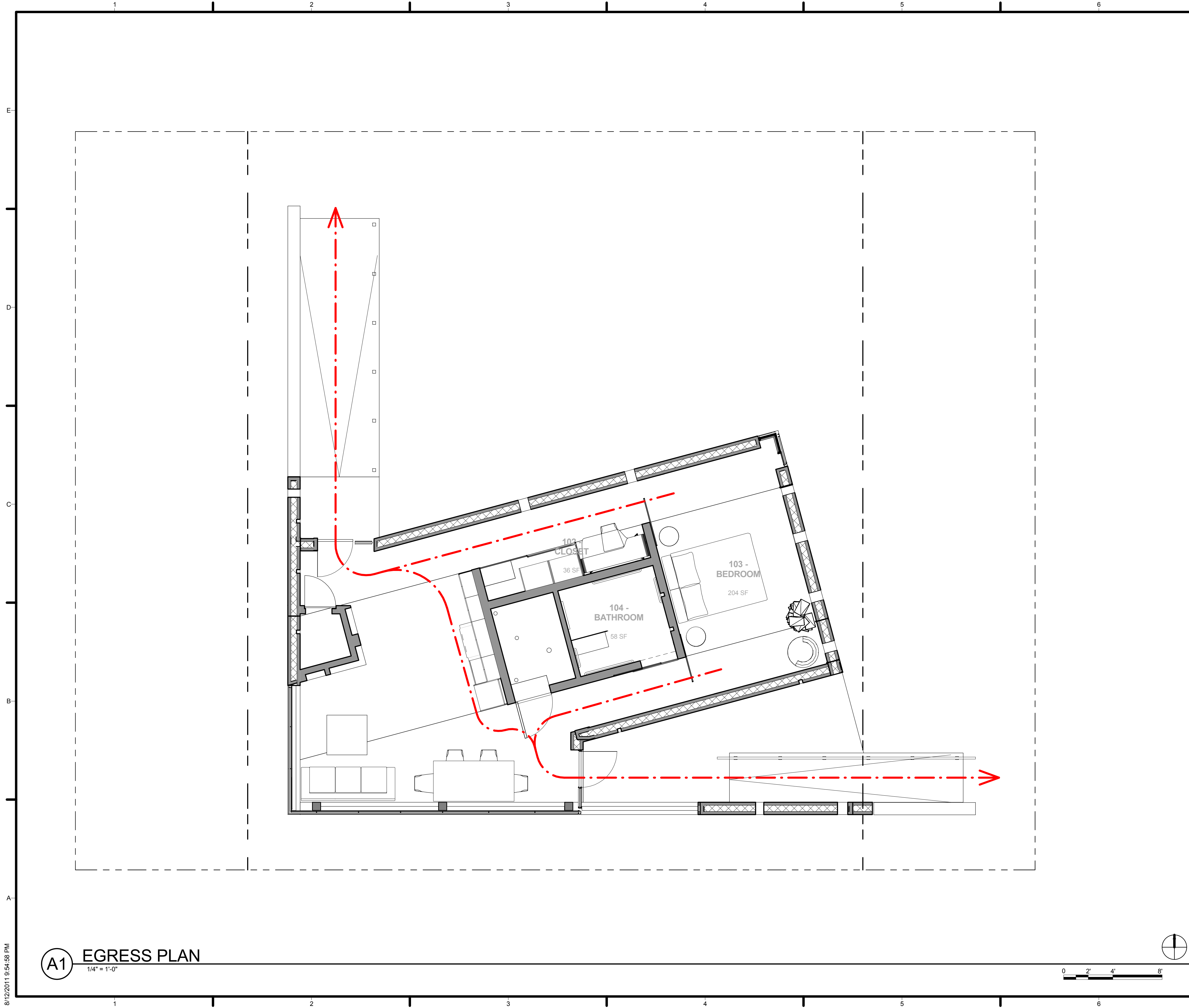
**G-101**

8/12/2011 9:54:52 PM

**(A1) FINISHED SQUARE FOOTAGE FLOOR PLAN**  
 1/4" = 1'-0"



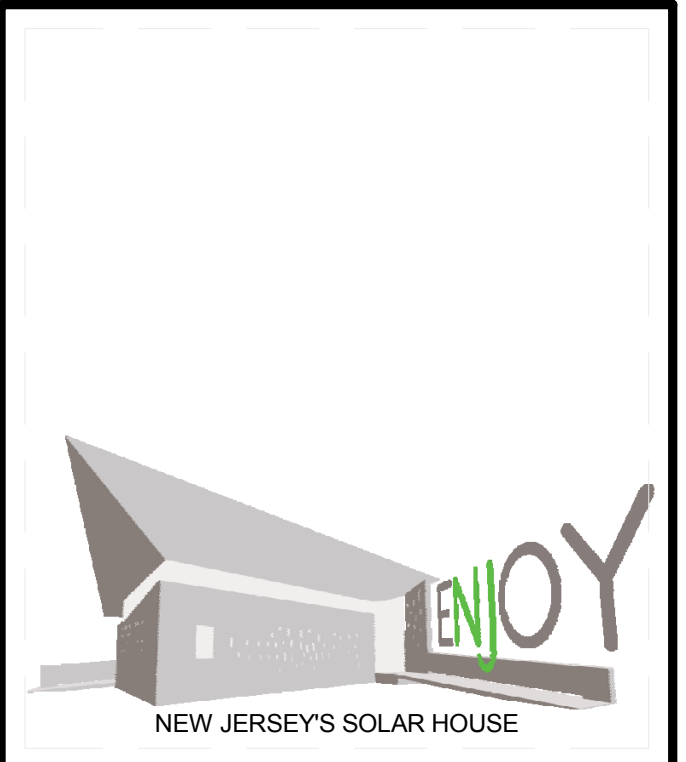




GENERAL SHEET NOTES

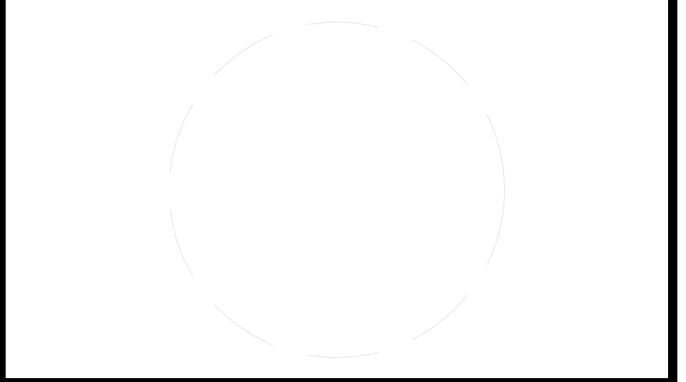
REFERENCE KEYNOTES

SHEET KEYNOTES



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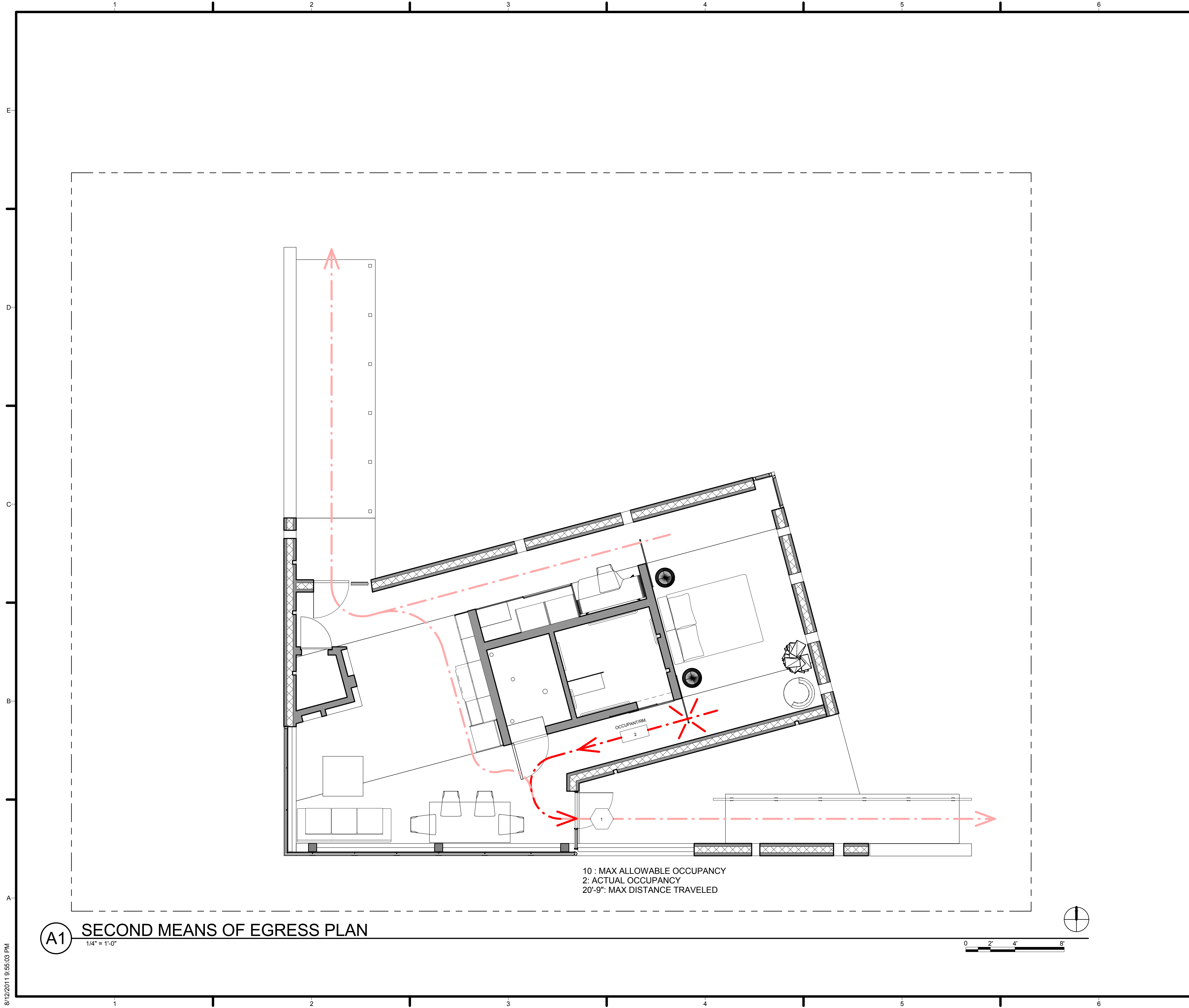
SHEET TITLE  
**EGRESS PLAN**

**G-102**

**A1** EGRESS PLAN  
 1/4" = 1'-0"

8/12/2011 9:54:58 PM





**(A1) SECOND MEANS OF EGRESS PLAN**  
1/4" = 1'-0"

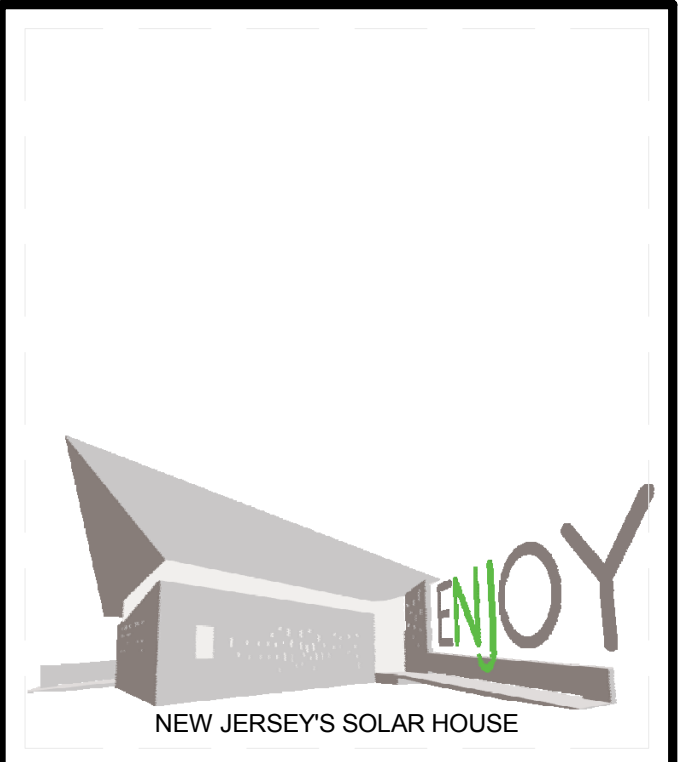
8/12/2011 9:55:03 PM

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**

1. THE DIAGRAM SHOWS THE DISTANCE TRAVELED FROM BEDROOM TO SECOND MEANS OF EGRESS IS ACCEPTABLE FOR BEDROOM EGRESS. REFER TO PROJECT MANUAL - APPENDIX B FOR APPROVAL LETTER.



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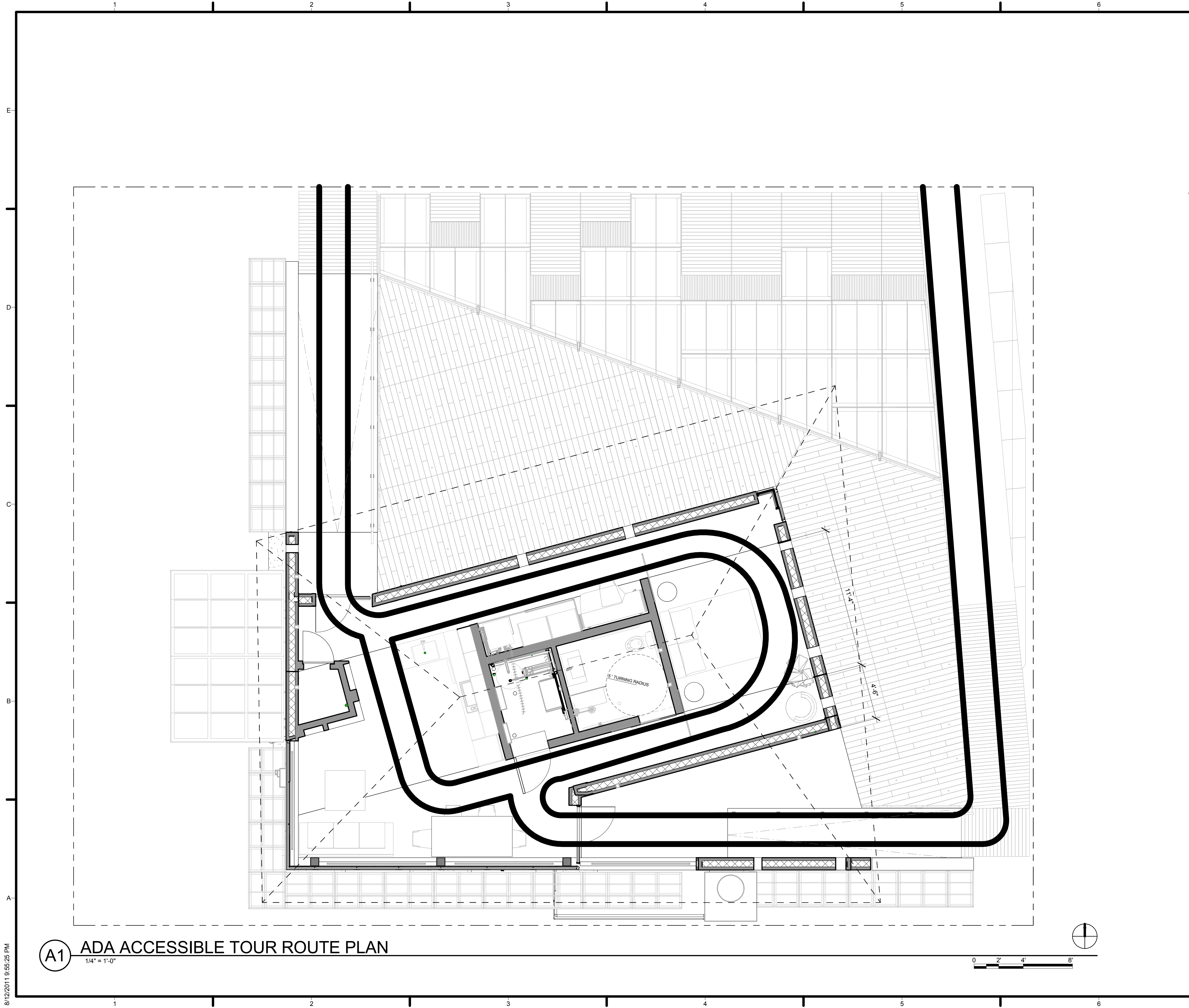
MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: Author  
 CHECKED BY: Checker  
 COPYRIGHT: NONE; PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
**SECOND MEANS OF EGRESS**

**G-102A**

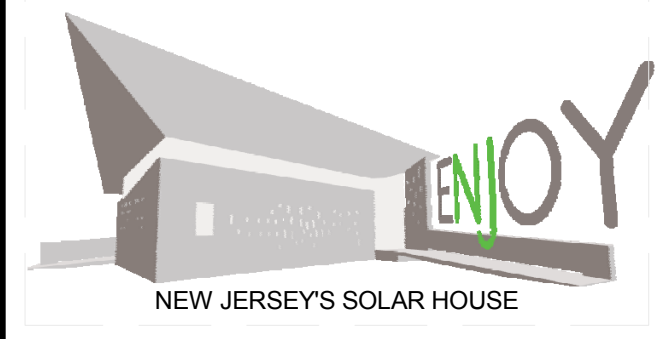




GENERAL SHEET NOTES

REFERENCE KEYNOTES

SHEET KEYNOTES



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LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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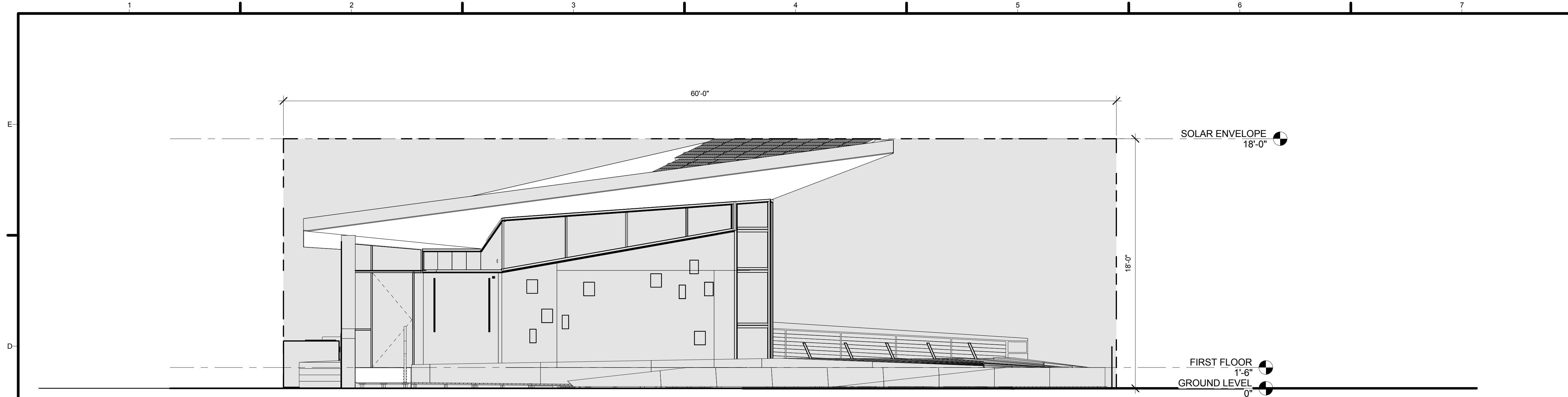
SHEET TITLE  
**ADA TOUR ROUTE COMPLIANCE PLAN**

**G-103**

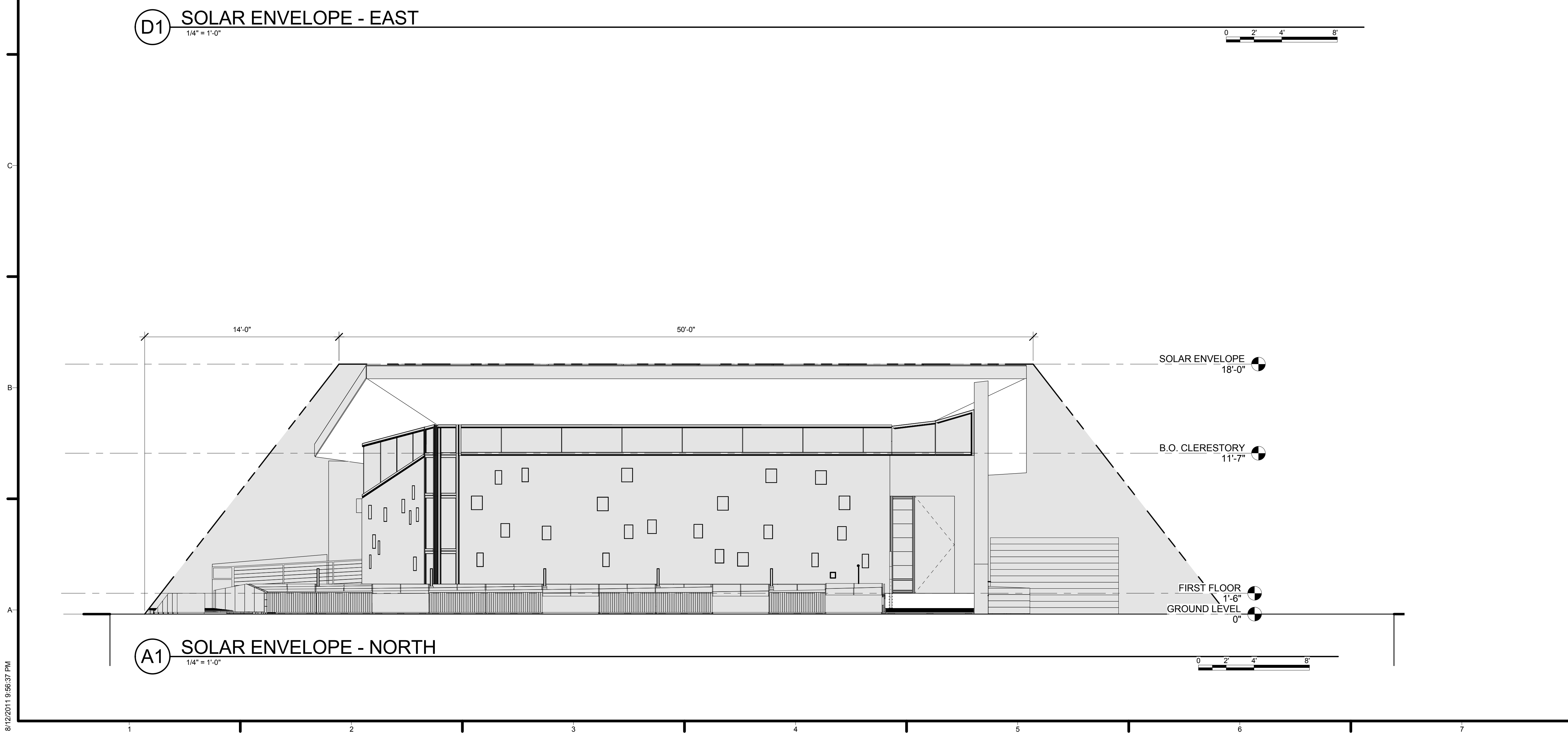
**A1** ADA ACCESSIBLE TOUR ROUTE PLAN  
 1/4" = 1'-0"

8/12/2011 9:55:25 PM

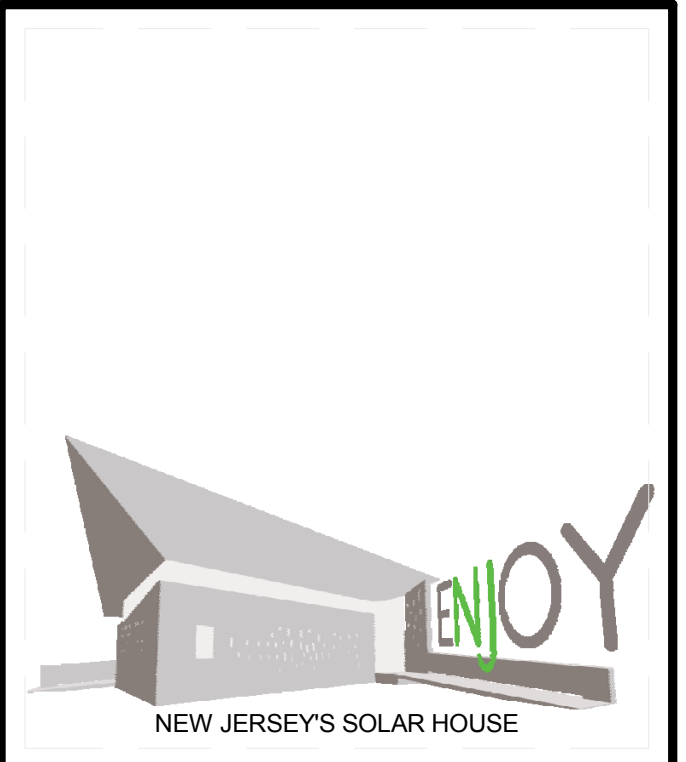




**D1 SOLAR ENVELOPE - EAST**  
1/4" = 1'-0"

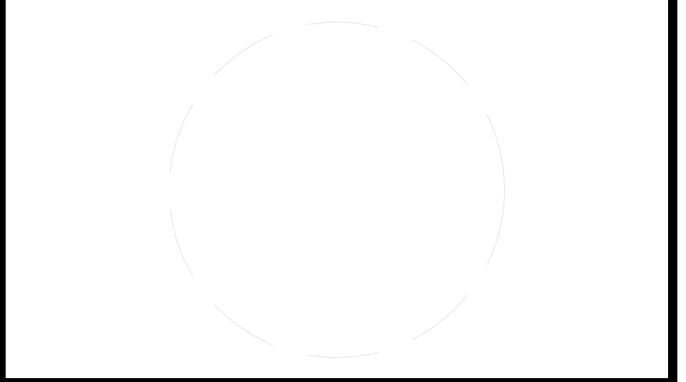


**A1 SOLAR ENVELOPE - NORTH**  
1/4" = 1'-0"



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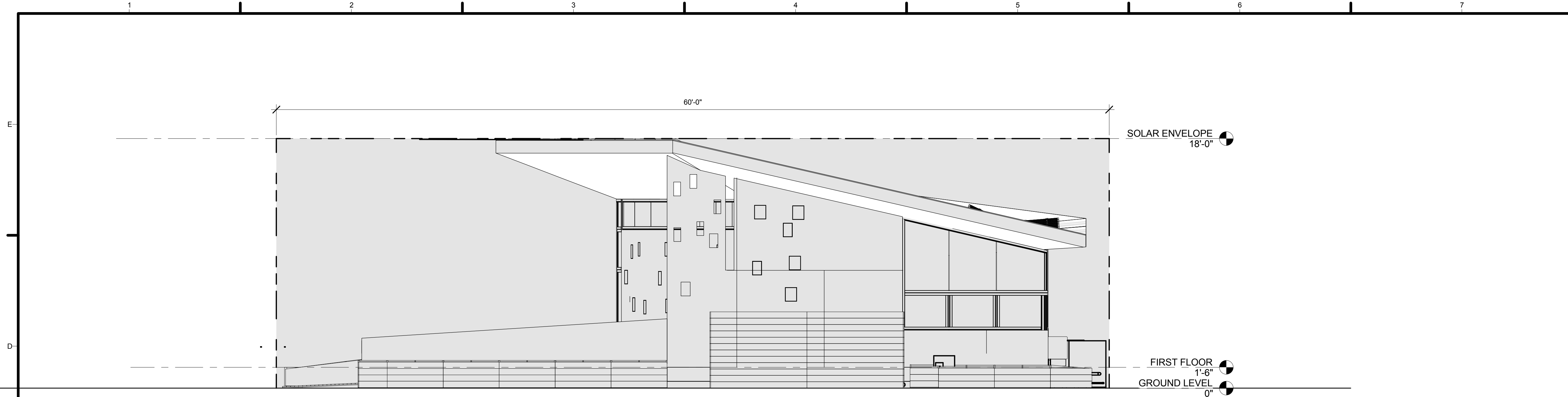
LOT NUMBER: LOT 104  
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SHEET TITLE  
**SOLAR ENVELOPE COMPLIANCE ELEVATIONS**

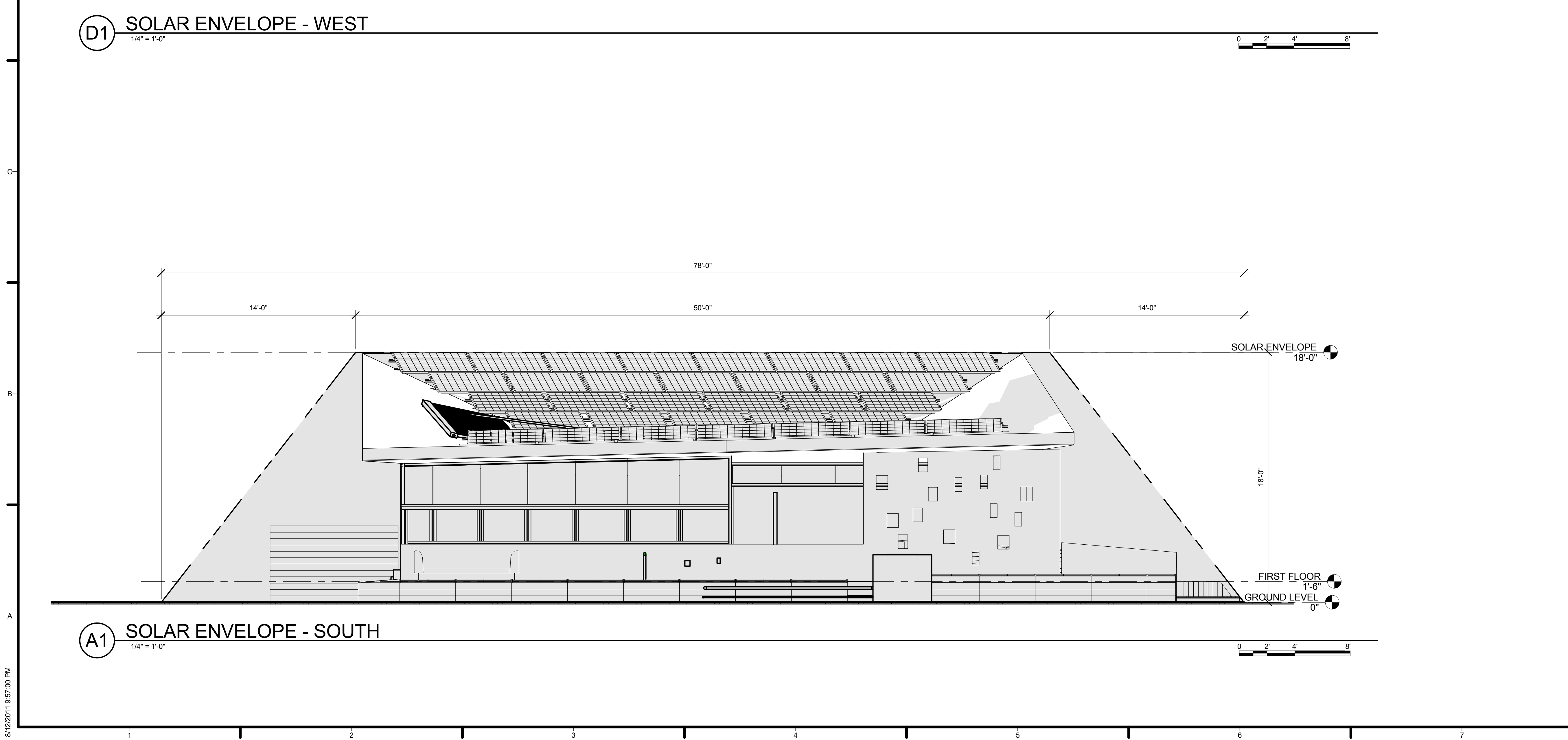
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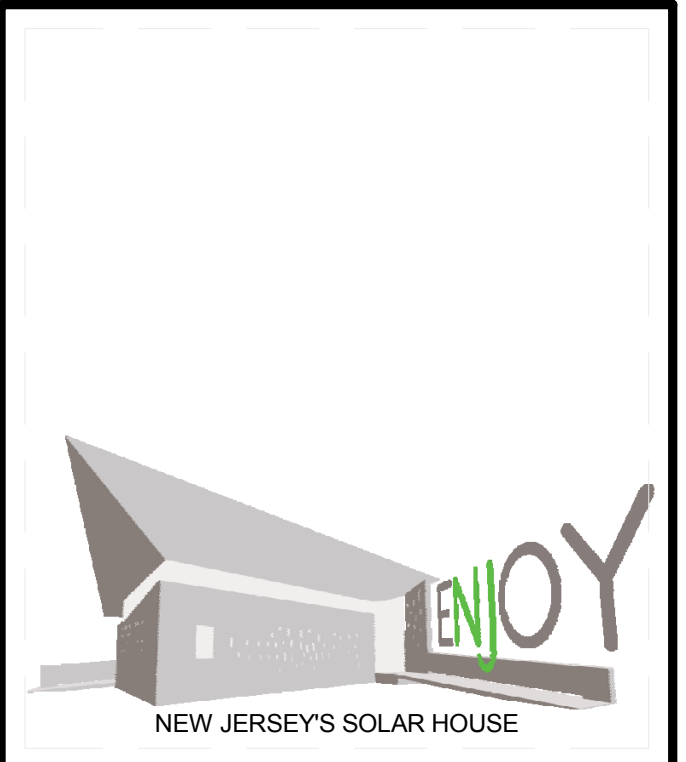




**D1** SOLAR ENVELOPE - WEST  
1/4" = 1'-0"

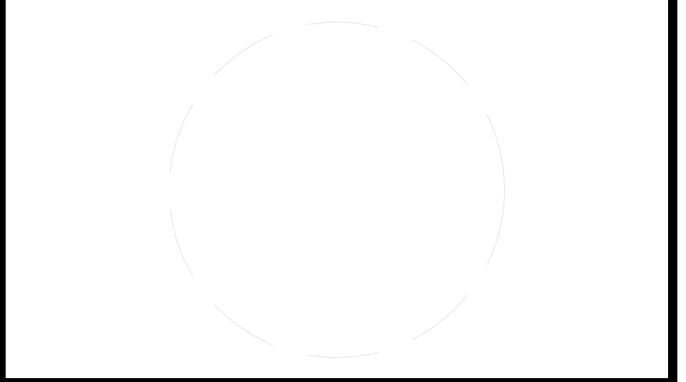


**A1** SOLAR ENVELOPE - SOUTH  
1/4" = 1'-0"



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SHEET TITLE  
**SOLAR ENVELOPE  
 COPMLIANCE  
 ELEVATIONS**

**G-202**

8/12/2011 9:57:00 PM







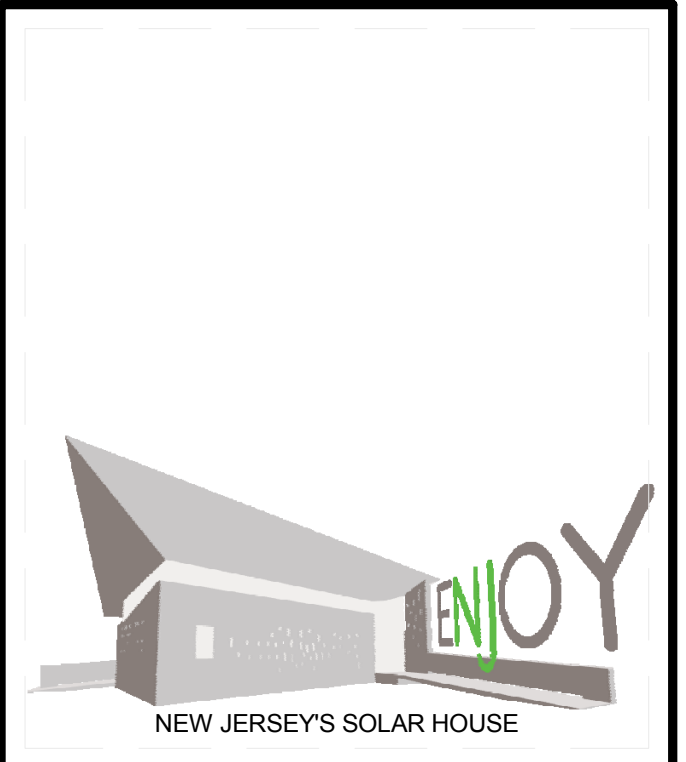
1 GROUND CONTACT PLAN  
1/4" = 1'-0"

GENERAL SHEET NOTES

1. ALL DIMENSIONS FROM AGREED TO START POINT. REFER TO S-101

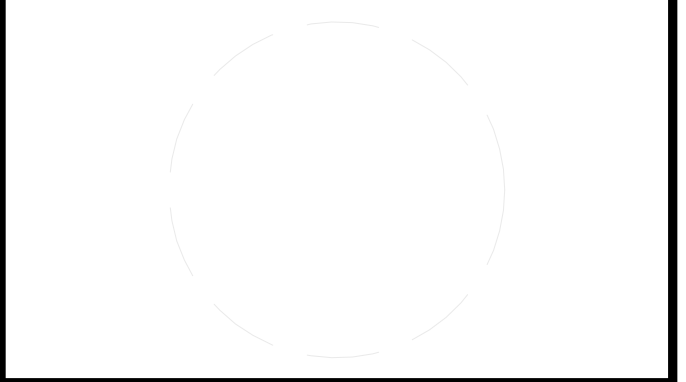
REFERENCE KEYNOTES

SHEET KEYNOTES



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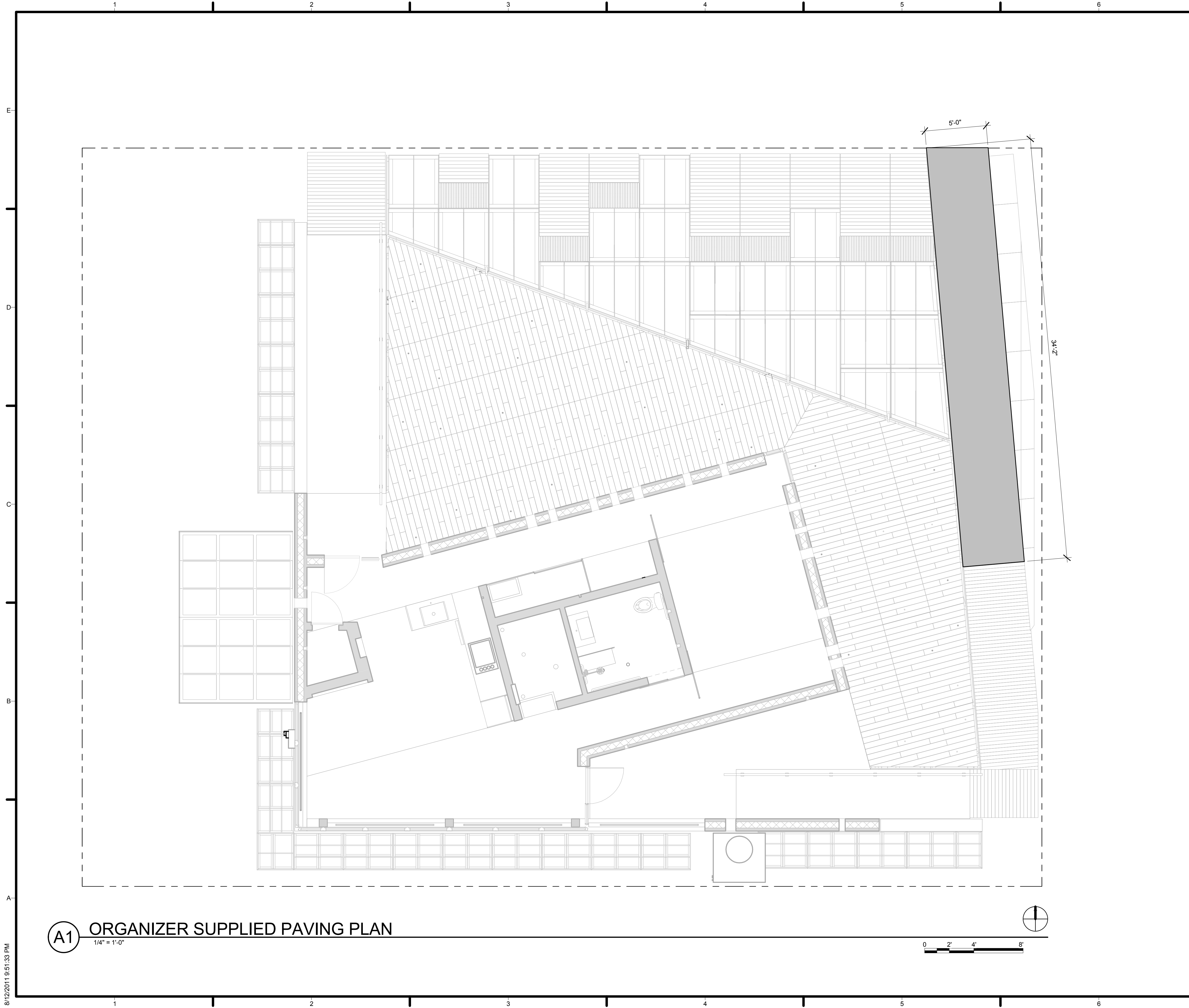
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SHEET TITLE  
 GROUND CONTACT PLAN

C-101

8/12/2011 9:51:24 PM

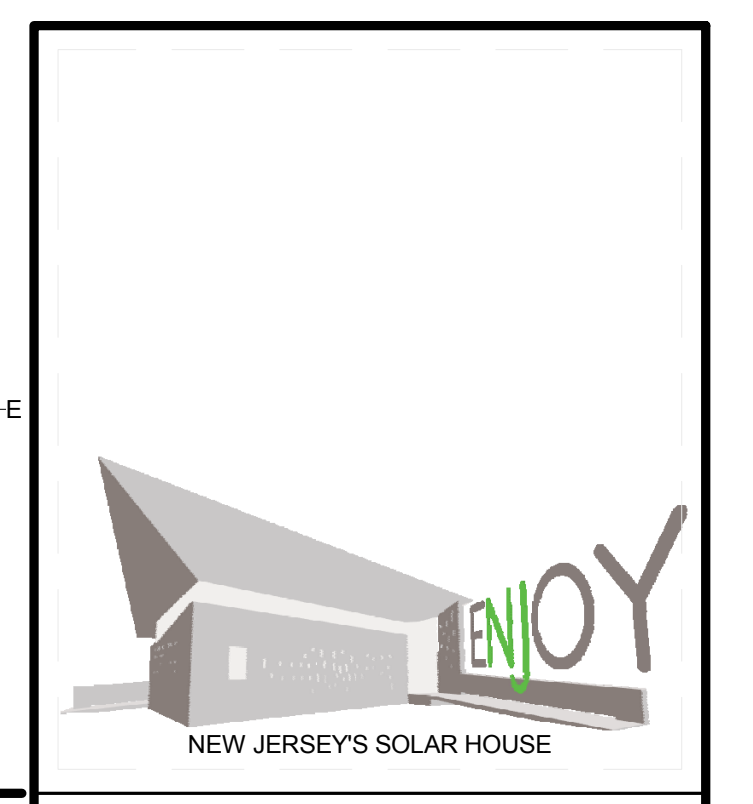




**(A1) ORGANIZER SUPPLIED PAVING PLAN**  
1/4" = 1'-0"

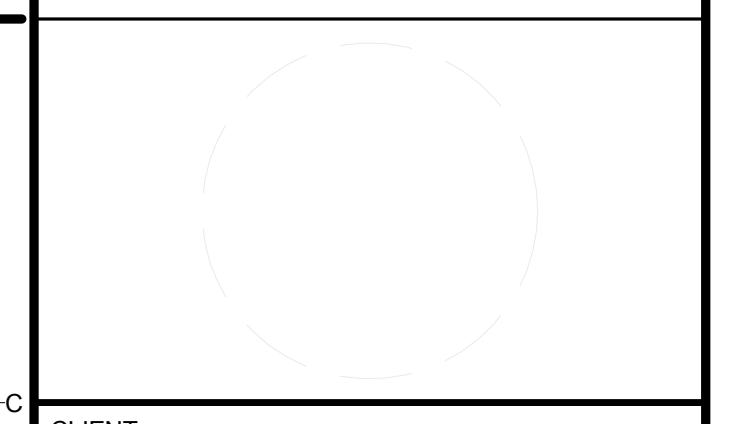
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<b>GENERAL SHEET NOTES</b>
<b>REFERENCE KEYNOTES</b>
<b>SHEET KEYNOTES</b>



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**SHEET TITLE**  
**ORGANIZER SUPPLIED PAVING PLAN**

C-102

LANDSCAPE DESIGN ABSTRACT

THE LANDSCAPE DESIGN IS MEANT TO COMPLIMENT THE ARCHITECTURE AND ENCOURAGE OUTDOOR LIVING. THE DECK IS DIVIDED INTO TWO PRIMARY SPACES: THE NORTH DINING AREA AND AN EASTERN LOUNGE AREA. THE TWO SPACES CONVERGE AT THE NORTH EASTERN CORNER OF THE HOUSE. IT IS A MODULAR SYSTEM WHERE EACH ELEMENT IN THE LANDSCAPE CAN BE BROKEN DOWN INTO SEPARATE COMPONENTS. THIS ALLOWS FOR EASE OF SHIPMENT AND FAST CONSTRUCTION. IN THE EVENT OF ANY DAMAGE TO THE DECK OR PLANTERS, THE DAMAGED COMPONENT CAN BE EASILY REMOVED, REPAIRED AND REPLACED. THE LANDSCAPE DOES NOT TAKE AWAY FROM THE ARCHITECTURE BUT ONLY ENHANCES IT. TAKING XERISCAPING INTO ACCOUNT, LOW PROFILE PLANTERS WERE INTRODUCED ON THE NORTH SIDE OF THE HOUSE THAT CONTAIN BEACH GRASSES AND PLANTS THAT ARE NATIVE TO THE STATE OF NEW JERSEY. THIS ENCOURAGES ENVIRONMENTAL AWARENESS AND PREVENTS INTRODUCING INVASIVE SPECIES INTO THE ECOSYSTEM.

NOTES:

1. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD.
2. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, PESTS, PLANT DISEASES AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED IN THE PLANT LIST WHICH ARE MINIMUM ACCEPTABLE SIZES. THEY SHALL BE MEASURED BEFORE PRUNING.
3. WATER. THE OWNER SHALL PROVIDE, AT NO EXPENSE, AN ADEQUATE SUPPLY OF WATER TO MEET THE NEEDS OF THIS CONTRACT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY HOSES, EQUIPMENT, ATTACHMENTS AND ACCESSORIES FOR THE ADEQUATE IRRIGATION OF PLANTED AREAS AS MAY BE REQUIRED TO COMPLETE THE WORK AS SPECIFIED.
4. PRUNING AND REPAIR. ALL PRUNING AND REPAIR WORK MUST BE COMPLETED WITHIN A TEN-DAY PERIOD AFTER PLANTING. THE AMOUNT OF PRUNING INCLUDED UNDER THE WORK OF THIS SECTION SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED BUDS AND LEAVES AS A RESULT OF TRANSPLANTING OPERATIONS.
5. PROPER DRAINAGE SHALL BE PROVIDED WITHIN EACH OF THE PLANTERS TO PREVENT OVERFLOW.



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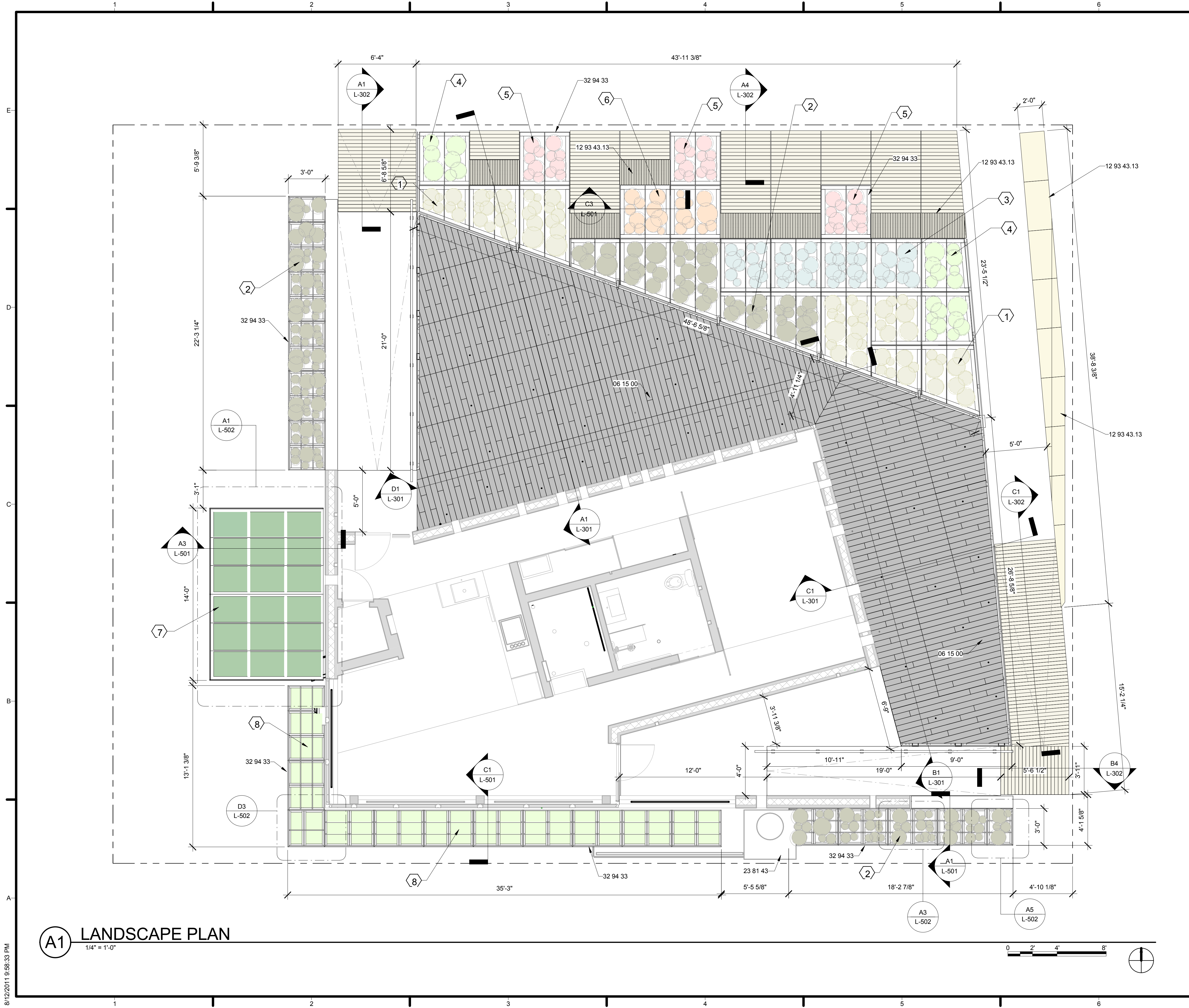
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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SHEET TITLE

LANDSCAPE NOTES AND SYMBOLS

L-001





**A1** LANDSCAPE PLAN  
1/4" = 1'-0"

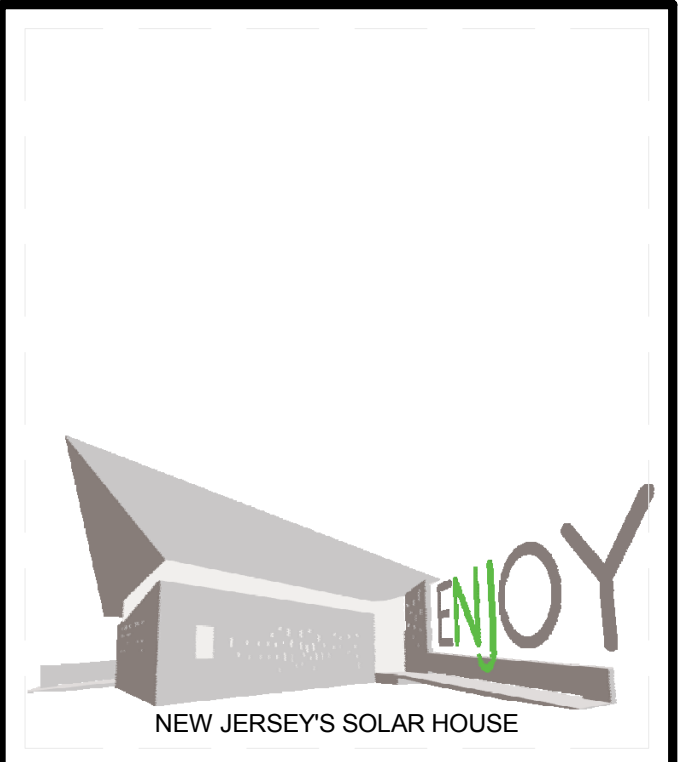
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

06 15 00	WOOD DECKING
12 93 43.13	SITE SEATING
23 81 43	AQUA PRODUCTS REVERSE CYCLE CHILLER
32 94 33	PLANTERS

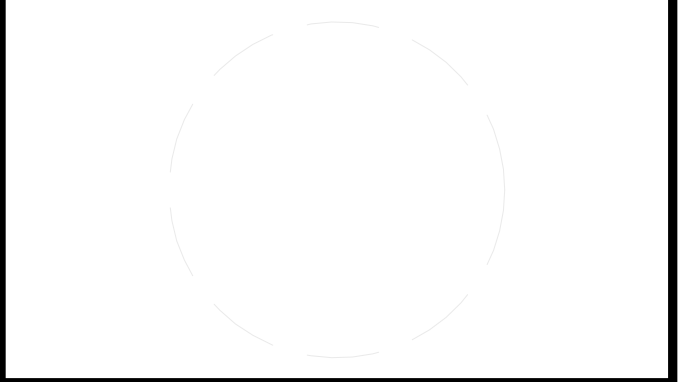
**SHEET KEYNOTES**

1. AMERICAN DUNE GRASS
2. AMERICAN BEACH GRASS
3. FALSE ASTER
4. VARIEGATED BLACK SEDGE
5. CONEFLOWER
6. SEASIDE GOLDENROD
7. LEAF LETTUCE
8. VEGETABLE GARDEN  
BROCCOLI  
BELL PEPPERS  
ONIONS  
BEETS  
PARSLEY  
BASIL



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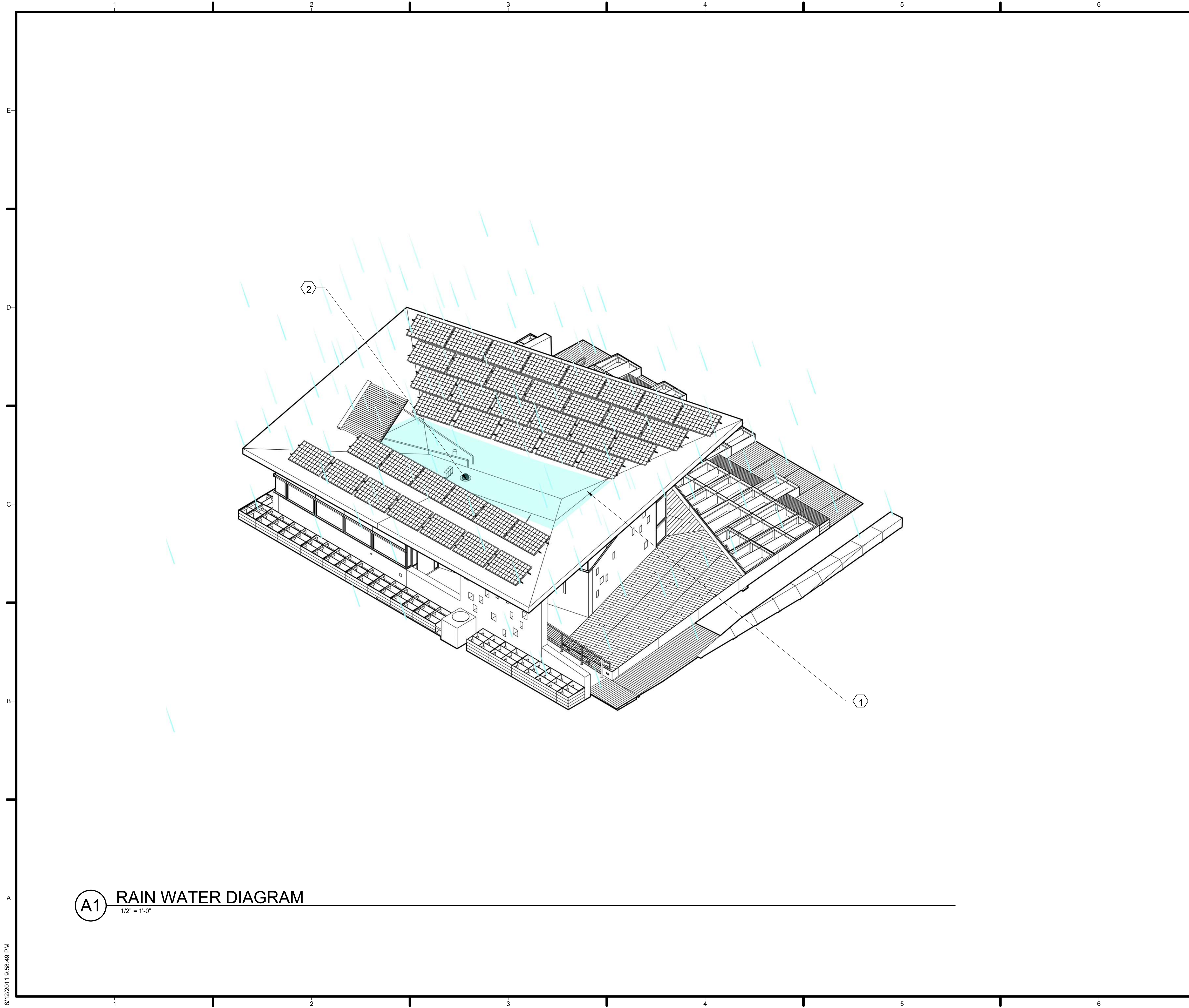
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SHEET TITLE  
**LANDSCAPE AND PLANTING SITE PLAN**

**L-101**

8/12/2011 9:56:33 PM





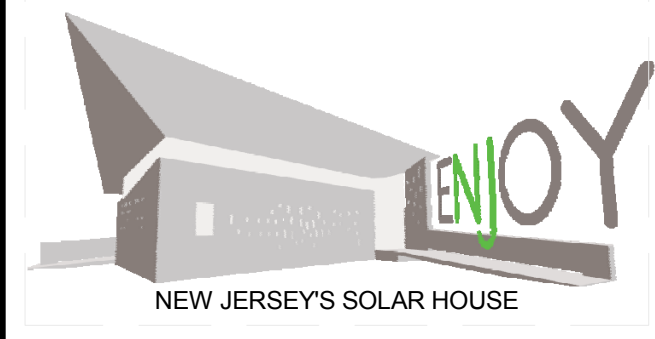
**GENERAL SHEET NOTES**

1. RAINWATER SHALL NOT BE COLLECTED DURING THE COMPETITION.
2. RAINWATER SHALL BE DRAINED TO GROUND UNDERNEATH THE FLOOR SLAB FOR THE DURATION OF THE COMPETITION.

**REFERENCE KEYNOTES**

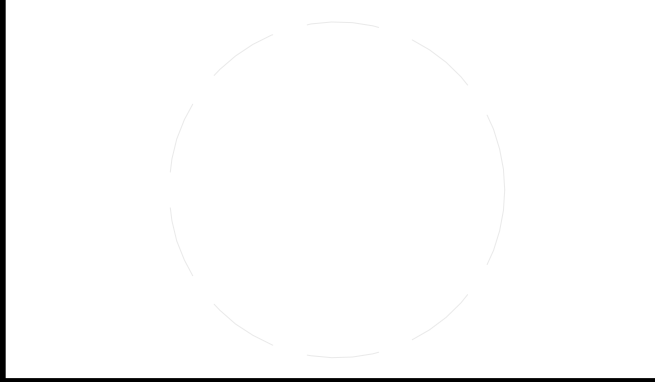
**SHEET KEYNOTES**

1. 172 FT CUBED MAX WATER PONDING
2. ROOF DRAIN



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SHEET TITLE  
**RAINWATER DIAGRAM**

**L-102**

**A1 RAIN WATER DIAGRAM**  
 1/2" = 1'-0"





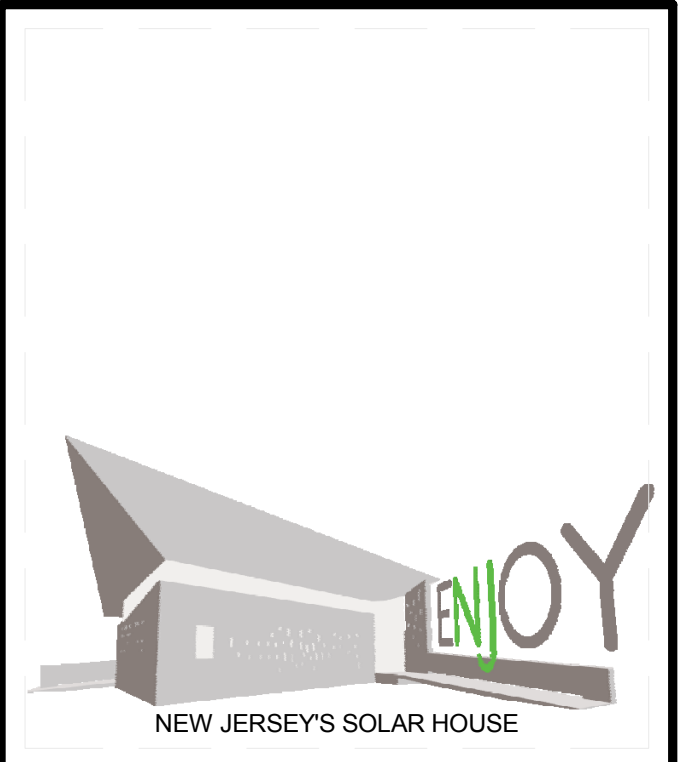
**A1** LANDSCAPE LIGHTING PLAN  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

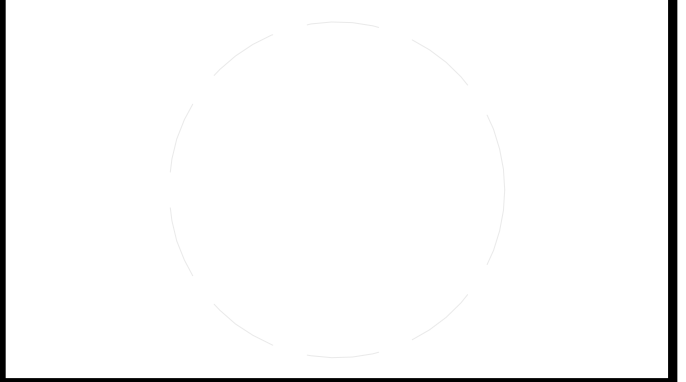
26 51 00.E01	ACCOLADE 3 TOP OF WALL RECESSED LIGHT FIXTURE
26 56 00.A01	ACCOLADE 3 WALL RECESS EXTERIOR LIGHT FIXTURE
26 56 00.B01	TROY LANDSCAPE SHORT STEP LIGHT
26 56 00.C01	DEKOR DEK DOT EXTERIOR RECESSED LED LIGHT
26 56 00.D01	HINKLEY PIZA EXTERIOR LIGHT

**SHEET KEYNOTES**



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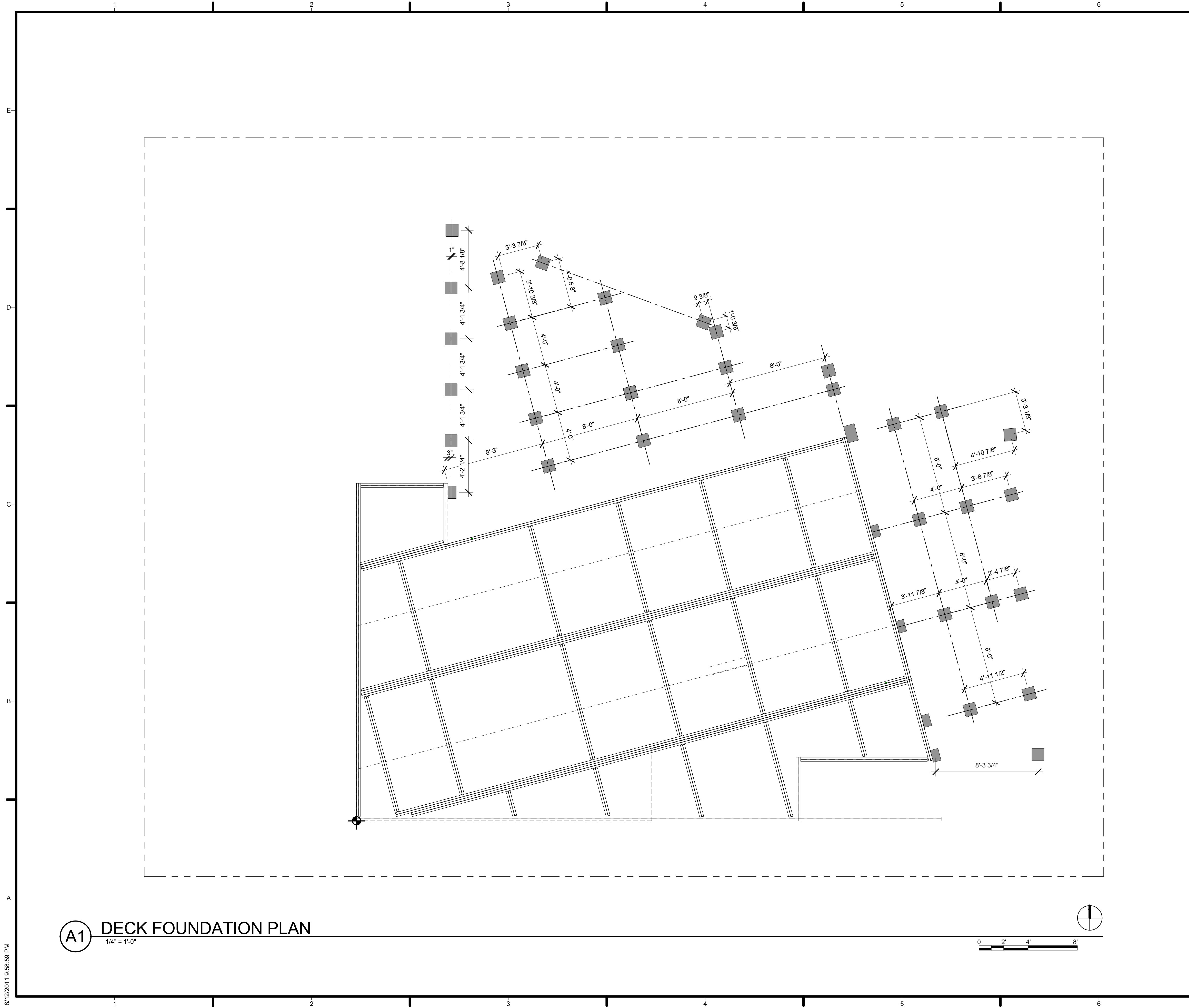
MARK	DATE	DESCRIPTION
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A	03/22/2011	CONSTRUCTION DOCUMENTS

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SHEET TITLE  
**LANDSCAPE LIGHTING PLAN**

**L-103**

8/12/2011 9:56:56 PM

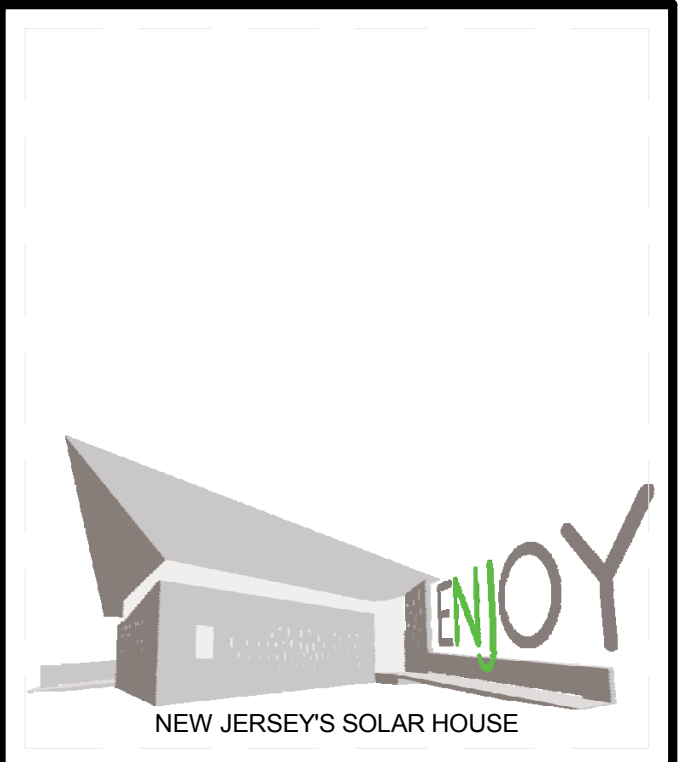


**(A1) DECK FOUNDATION PLAN**  
 1/4" = 1'-0"

**GENERAL SHEET NOTES**

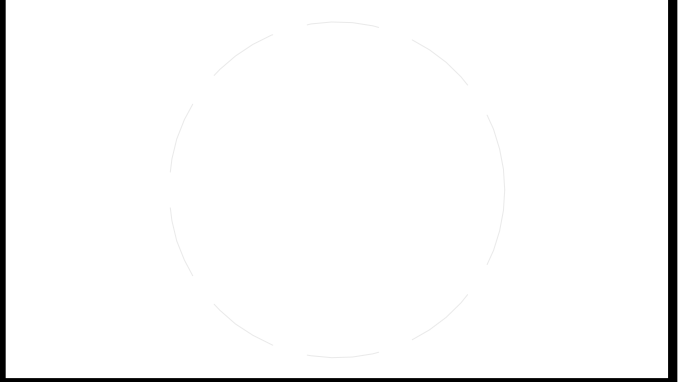
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**SHEET KEYNOTES**



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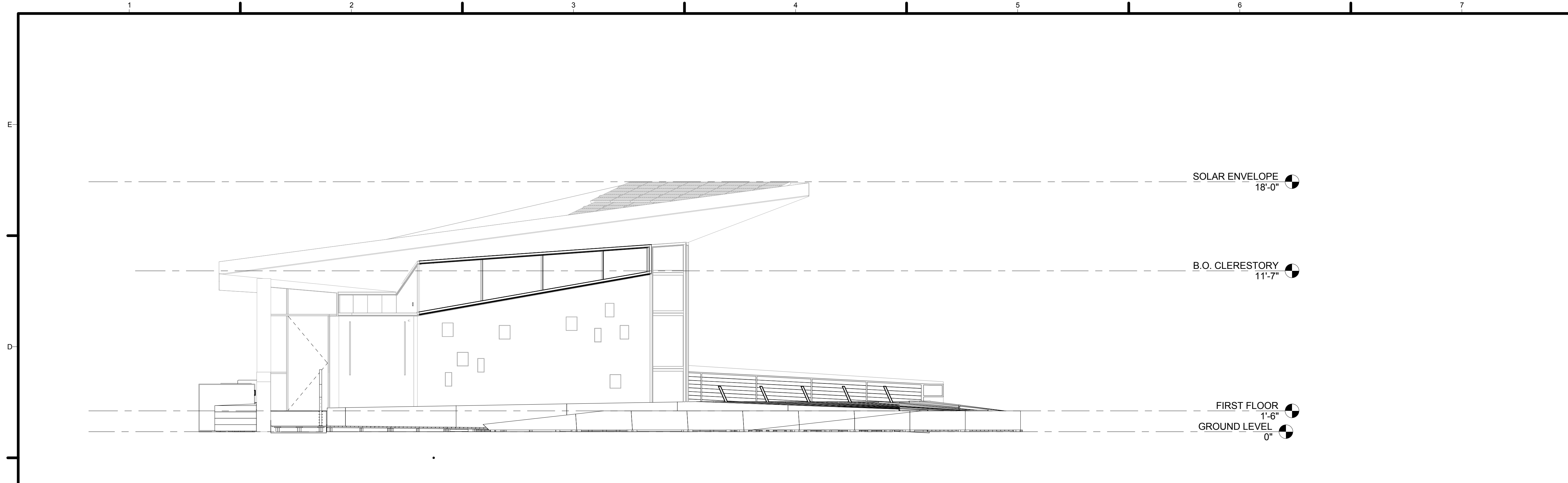
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SHEET TITLE  
**DECK FOUNDATION PLAN**

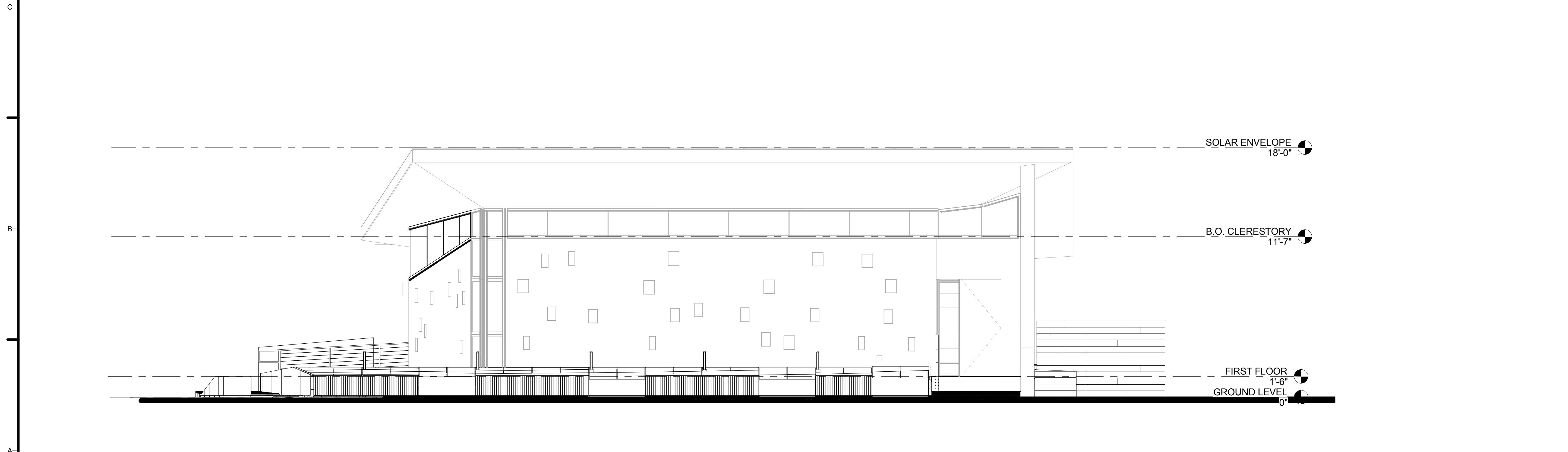
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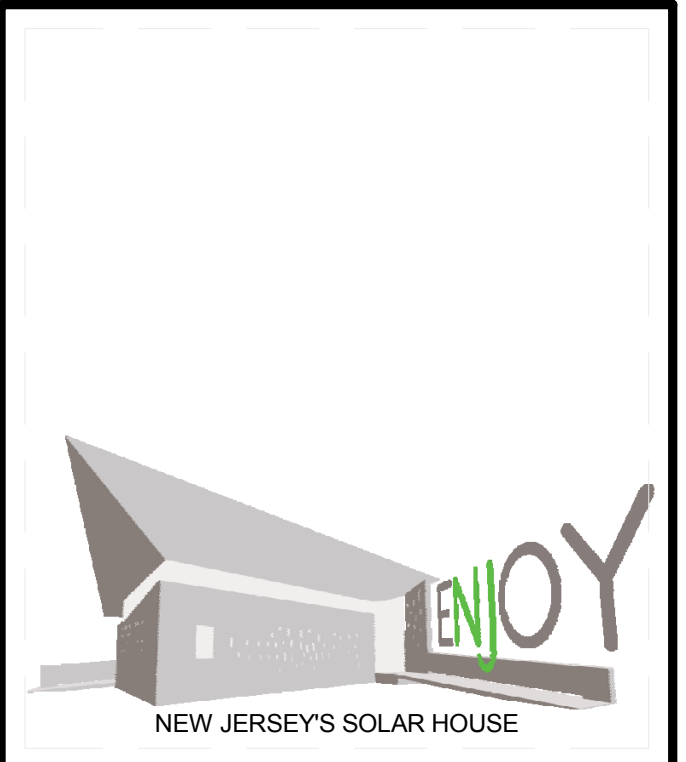




**C1 EAST ELEVATION LANDSCAPE**  
1/4" = 1'-0"

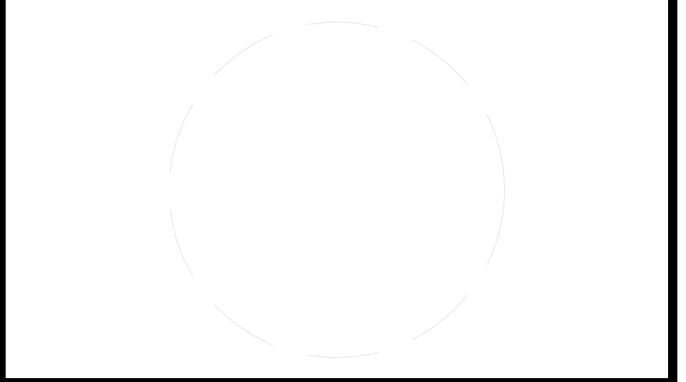


**A1 NORTH ELEVATION LANDSCAPE**  
1/4" = 1'-0"



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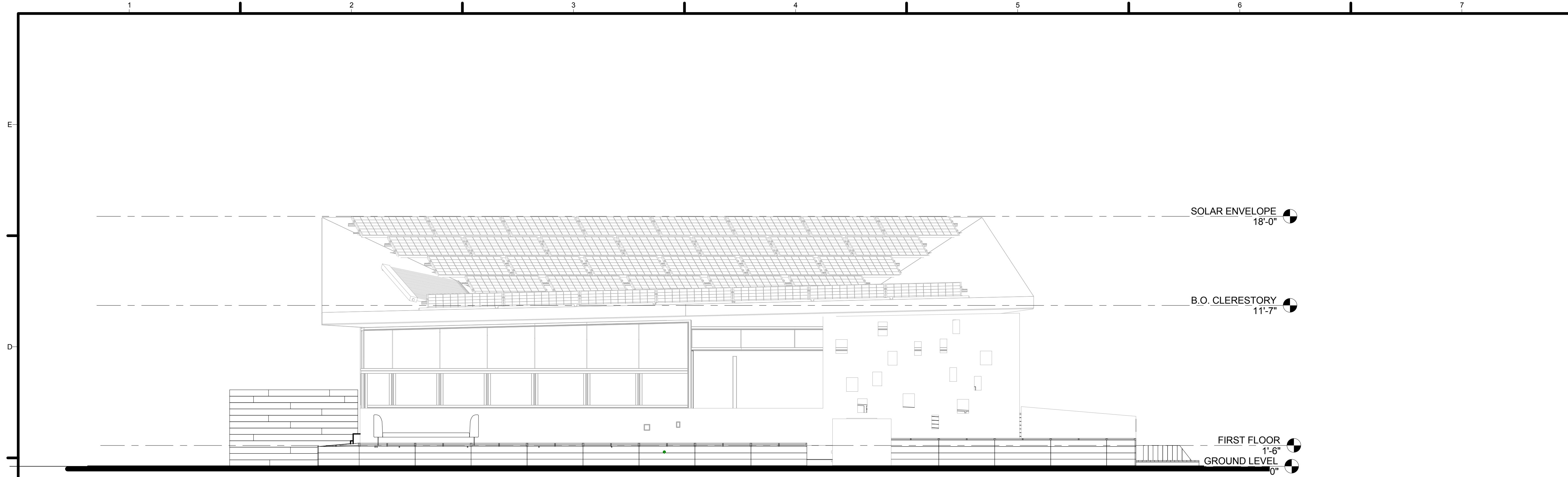


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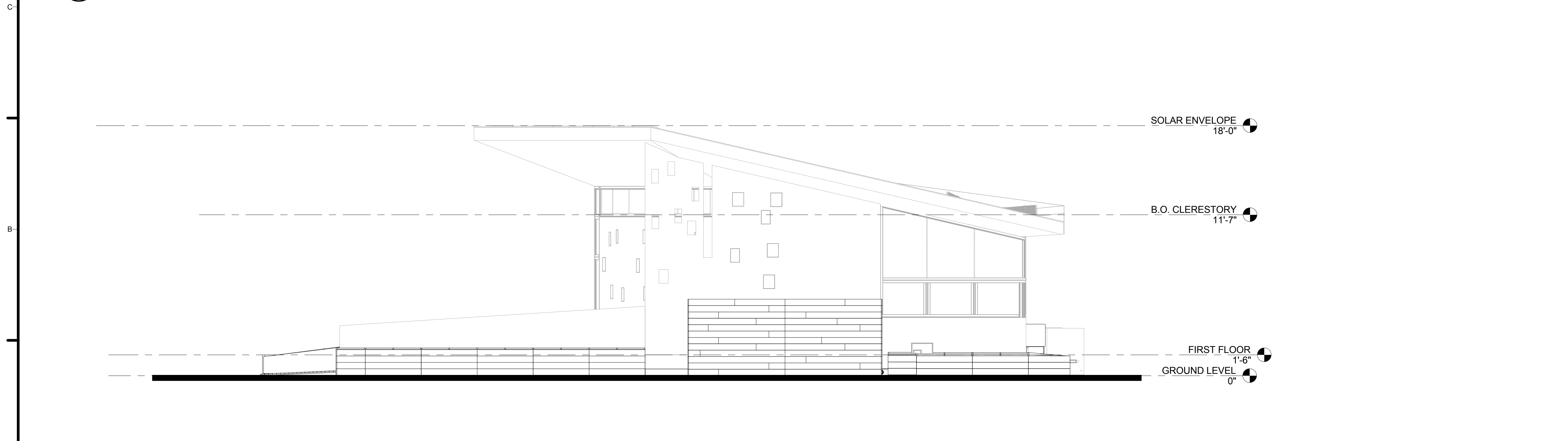
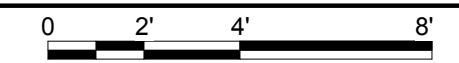
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SHEET TITLE  
**LANDSCAPE ELEVATIONS**

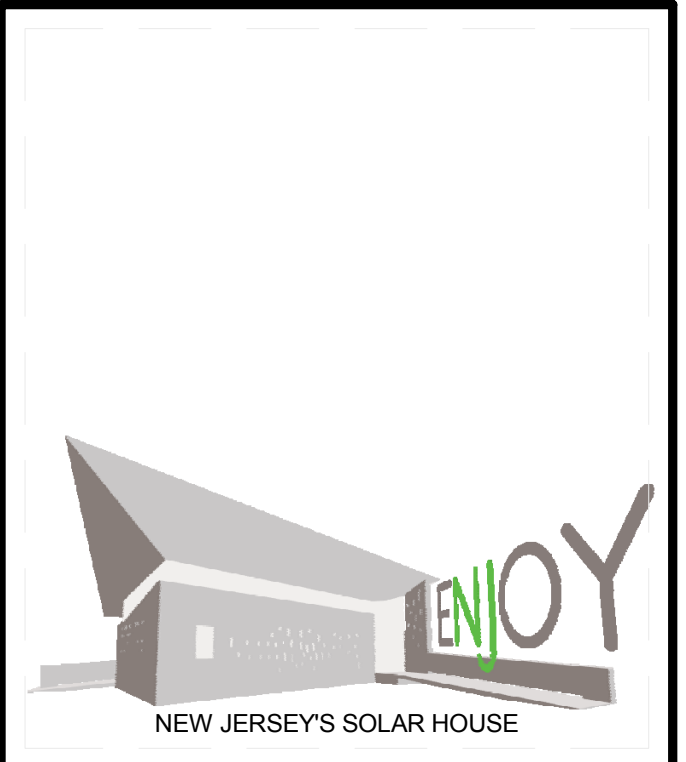
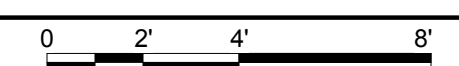
**L-201**



**C1** SOUTH ELEVATION LANDSCAPE  
1/4" = 1'-0"

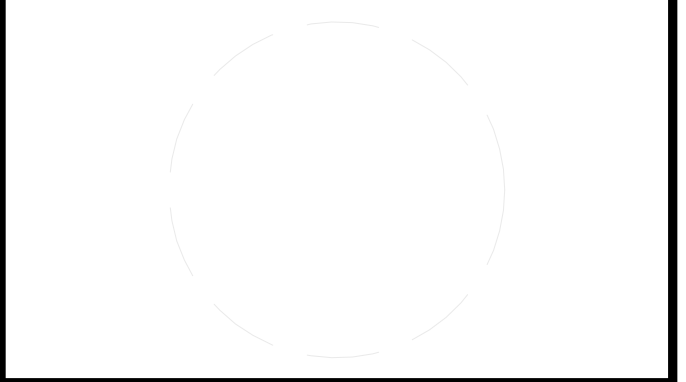


**A1** WEST ELEVATION LANDSCAPE  
1/4" = 1'-0"



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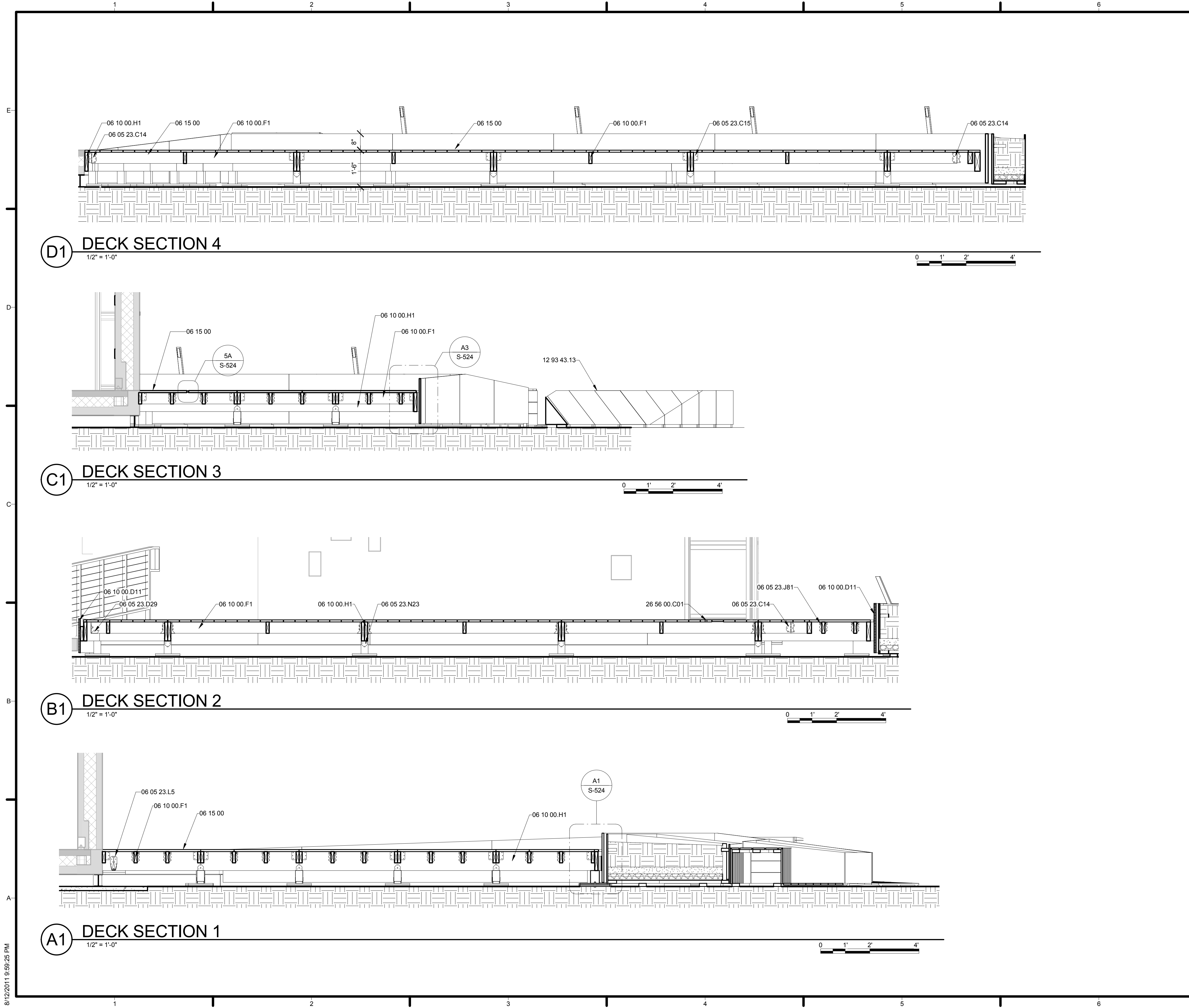
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SHEET TITLE  
**LANDSCAPE ELEVATIONS**

**L-202**



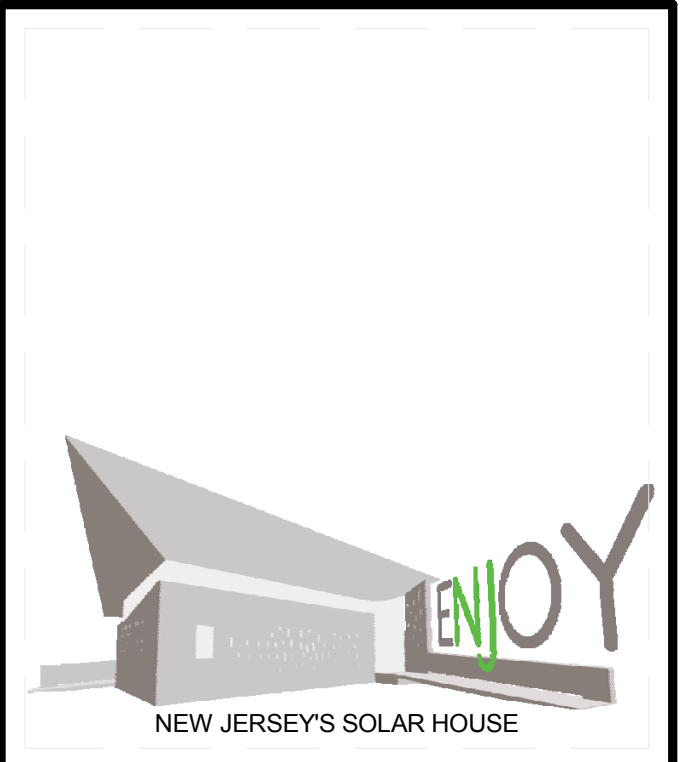


GENERAL SHEET NOTES

REFERENCE KEYNOTES

06 05 23.C14	LS50 ANGLE
06 05 23.C15	ML24Z ANGLE
06 05 23.D29	LSU26 HANGER
06 05 23.J81	LUS26 HANGER
06 05 23.L5	DTT2Z HOLDOWN
06 05 23.N23	BCS 2-2/4 POST CAP
06 10 00.D11	3/4" PLYWOOD
06 10 00.F1	2X6
06 10 00.H1	2X10
06 15 00	WOOD DECKING
12 93 43.13	SITE SEATING
26 56 00.C01	DEKOR DEK DOT EXTERIOR RECESSED LED LIGHT

SHEET KEYNOTES



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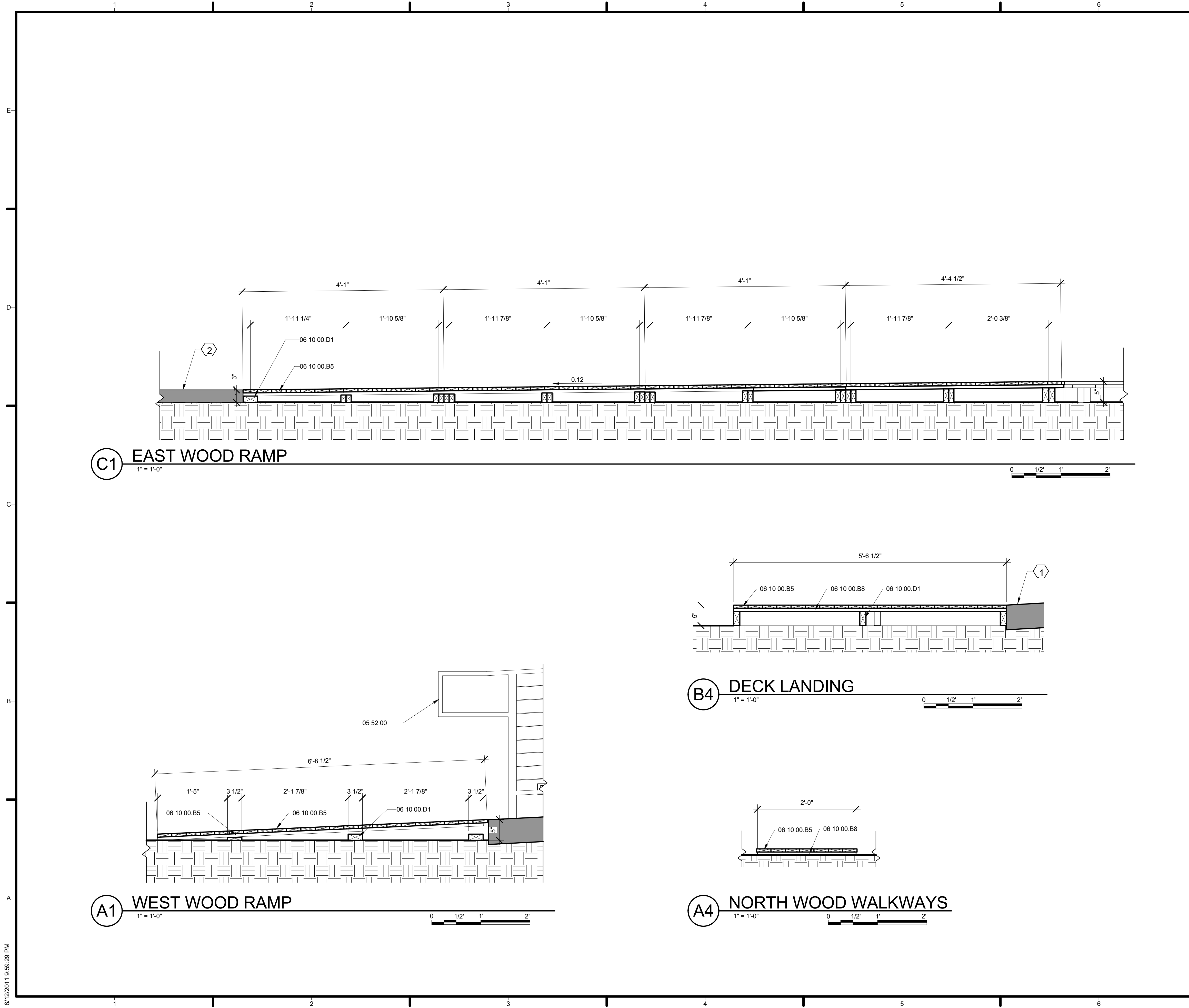
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SHEET TITLE  
 DECK SECTIONS

L-301

8/12/2011 9:59:25 PM



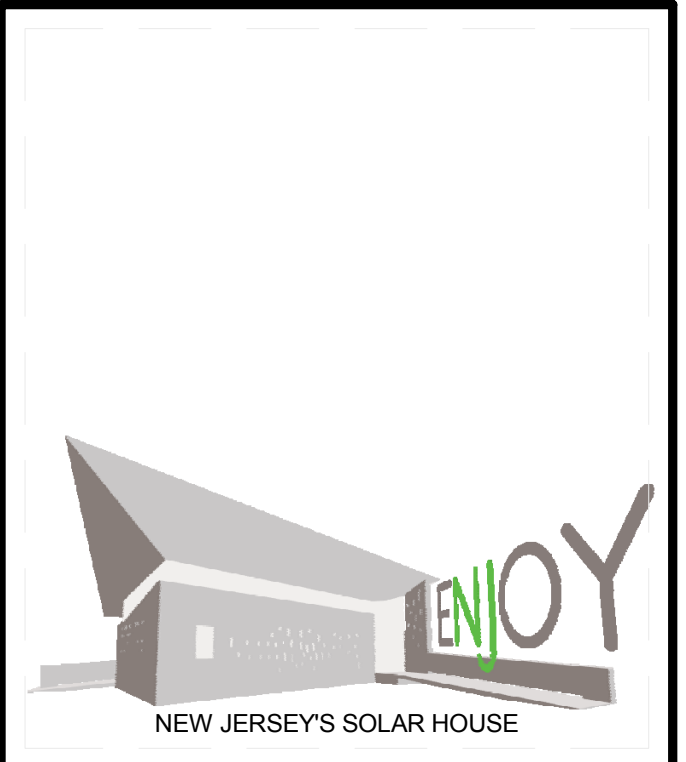
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

05 52 00	SRS INC STEEL RAILINGS
06 10 00.B5	1X4
06 10 00.B8	1X6
06 10 00.D1	2X4

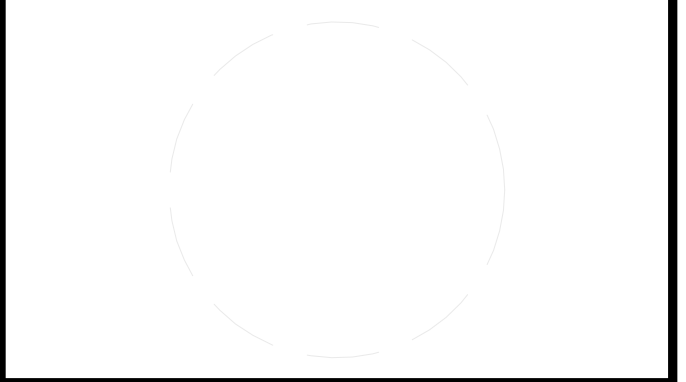
**SHEET KEYNOTES**

- 1. CONCRETE RAMP
- 2. ORGANIZER SUPPLIED WALKWAY



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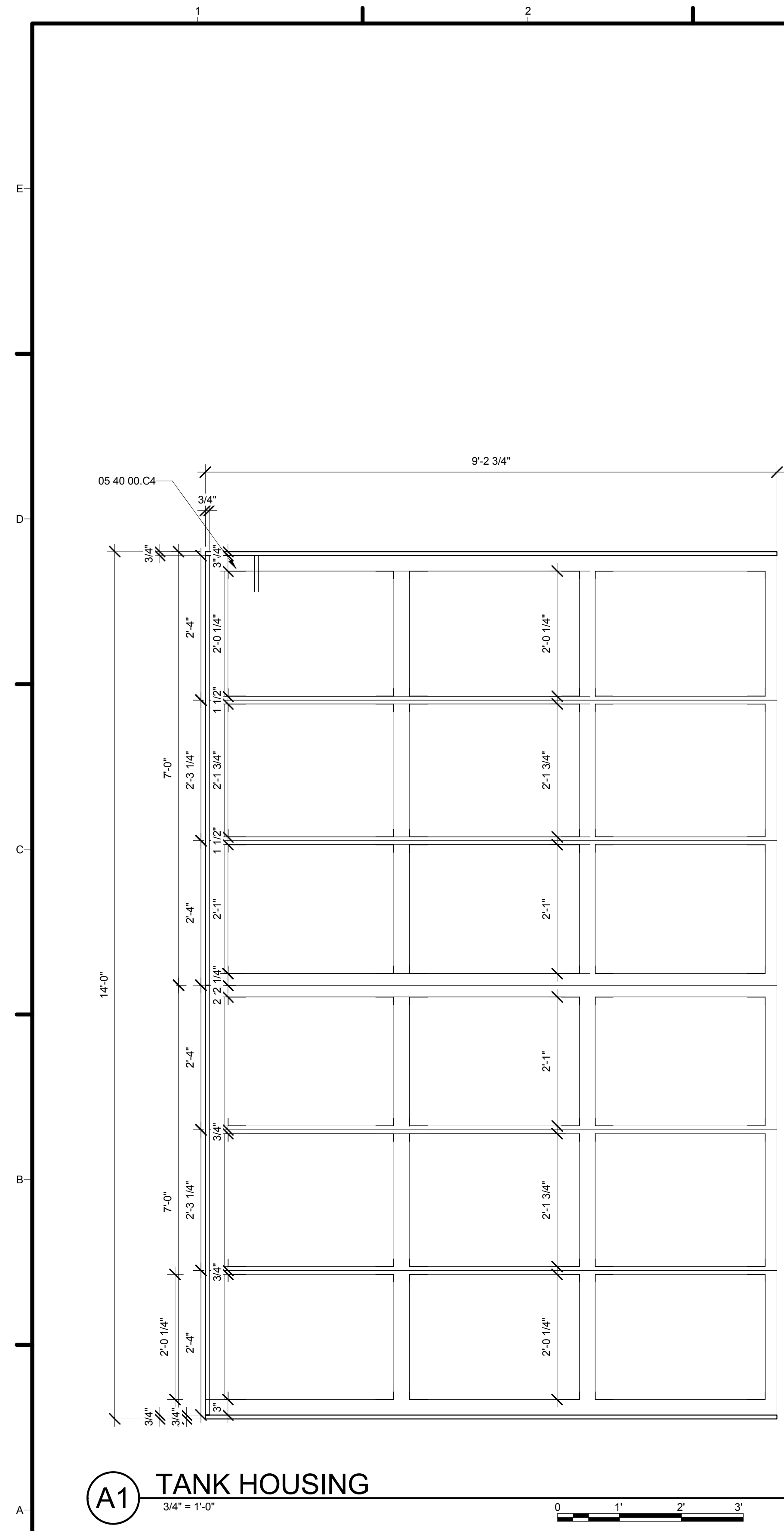
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SHEET TITLE  
**WOOD RAMP SECTIONS**

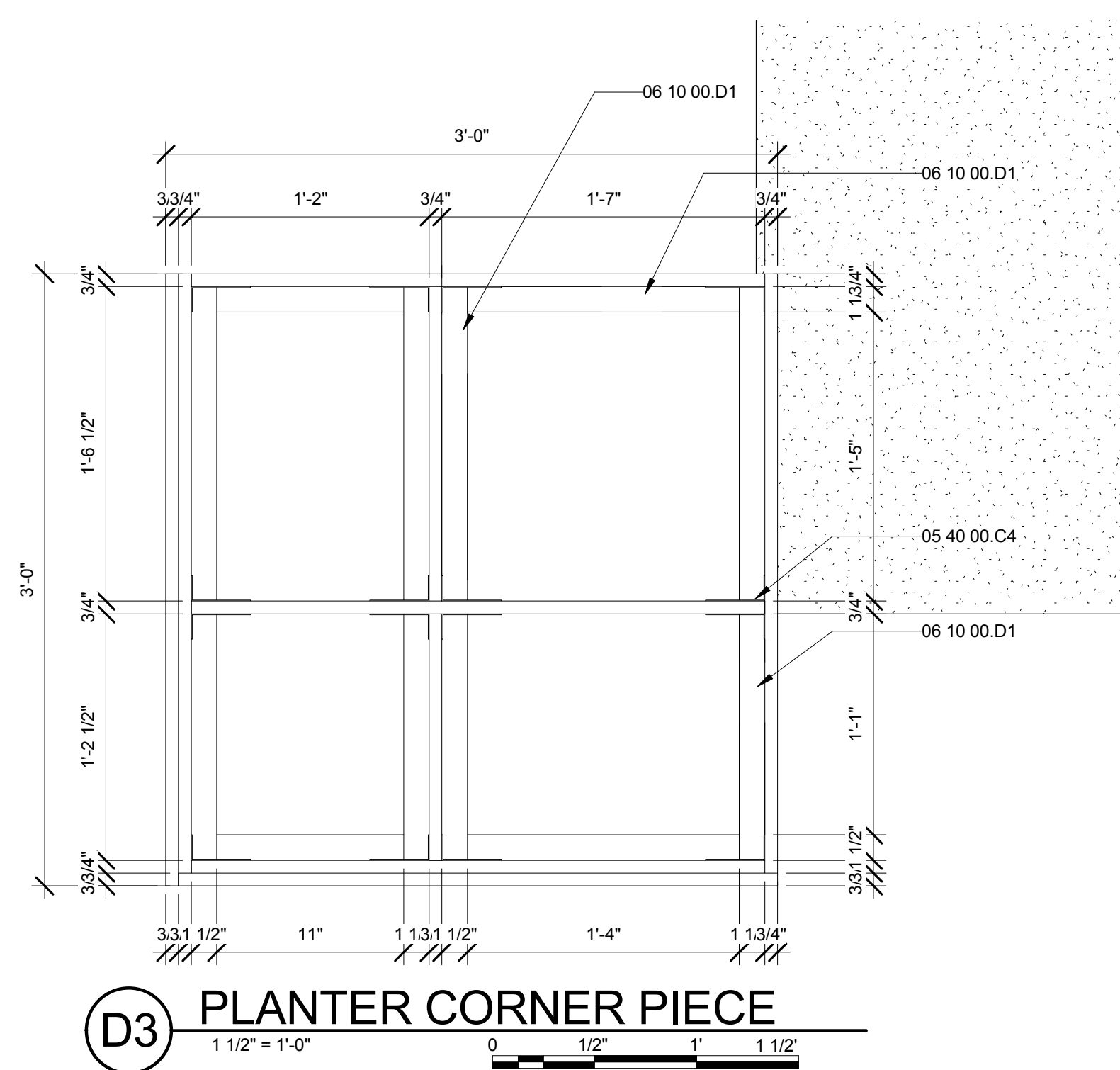
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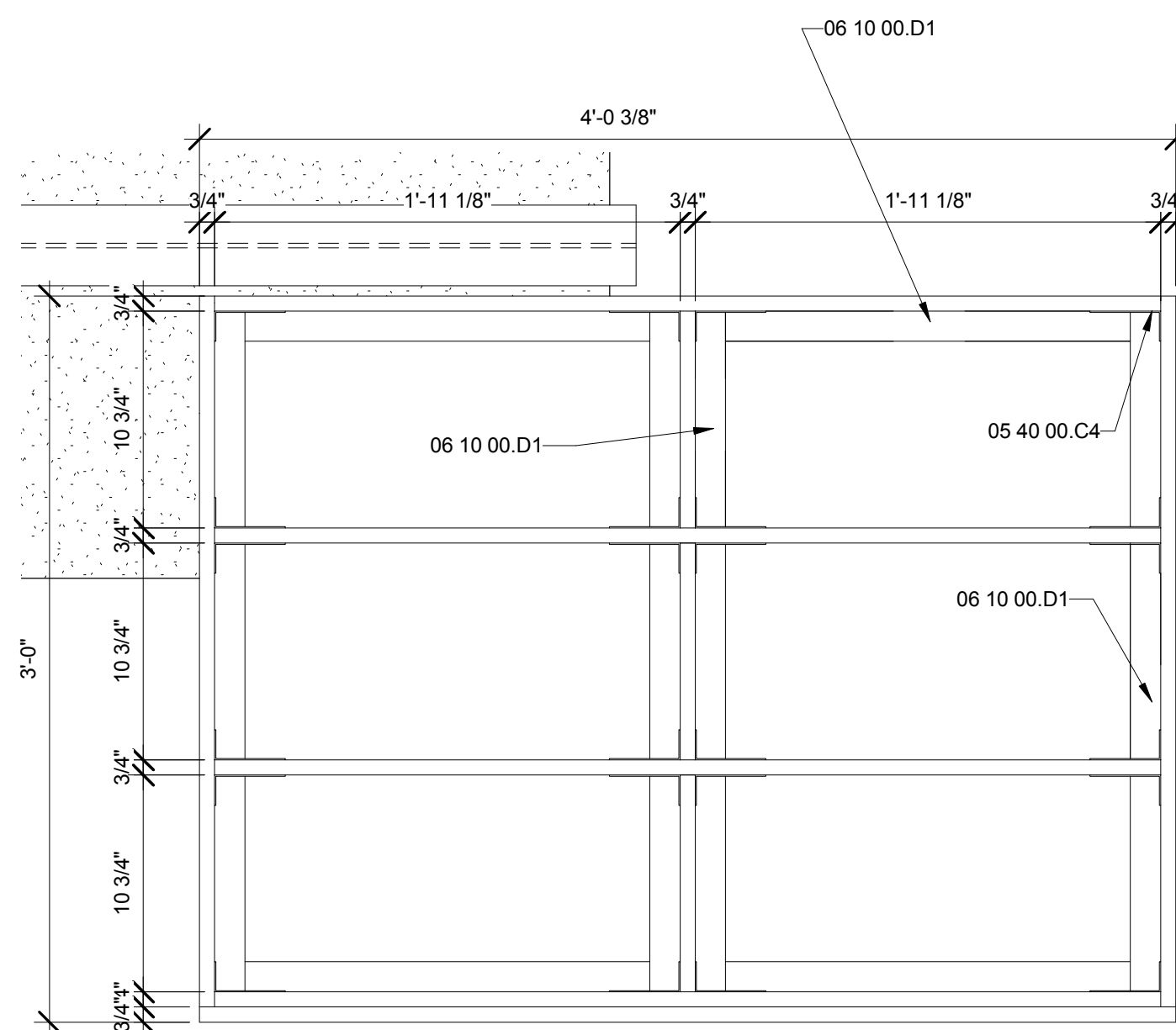




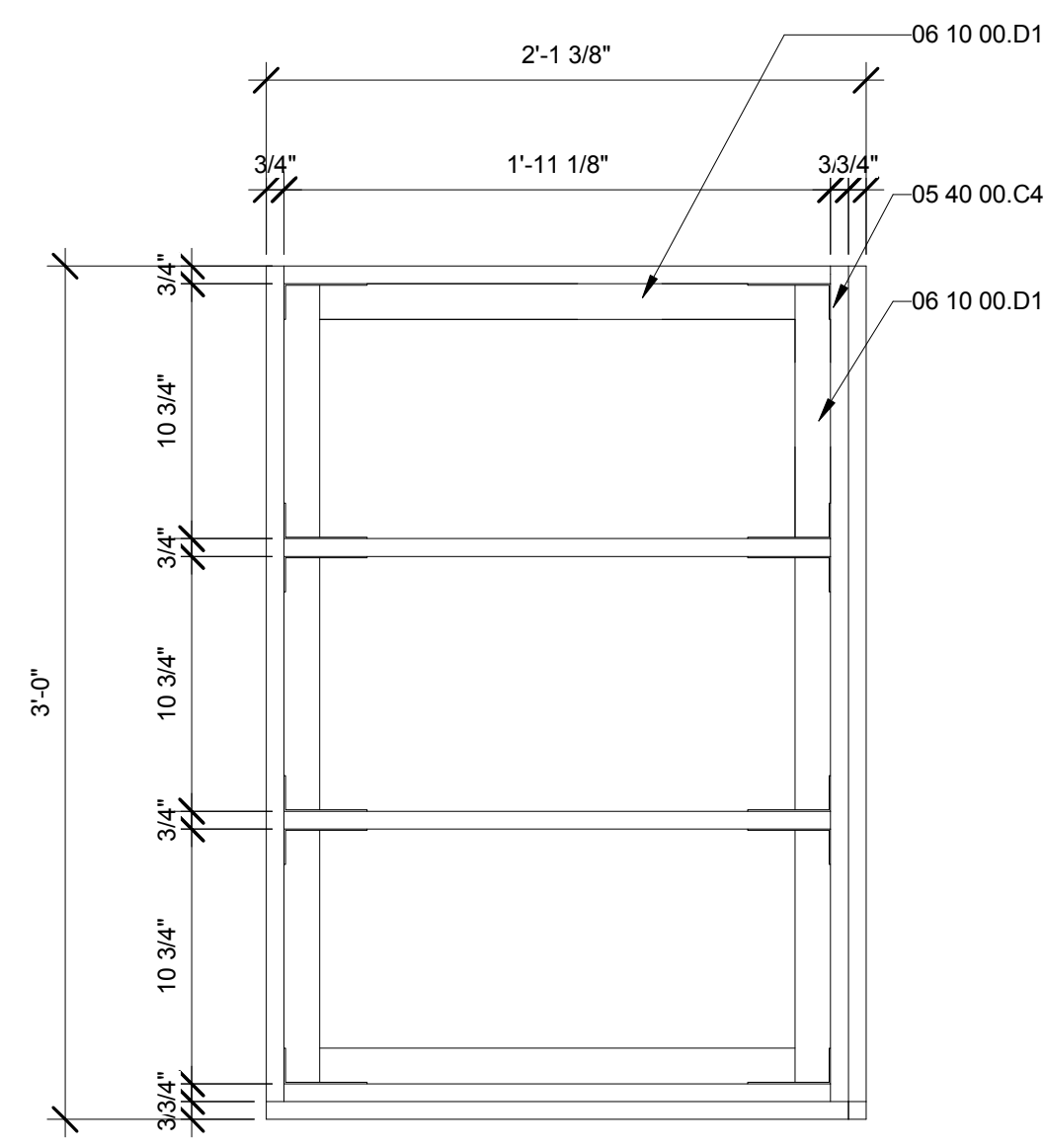
**(A1) TANK HOUSING**  
3/4" = 1'-0"



**(D3) PLANTER CORNER PIECE**  
1 1/2" = 1'-0"



**(A3) DOUBLE PLANTER PLAN**  
1 1/2" = 1'-0"



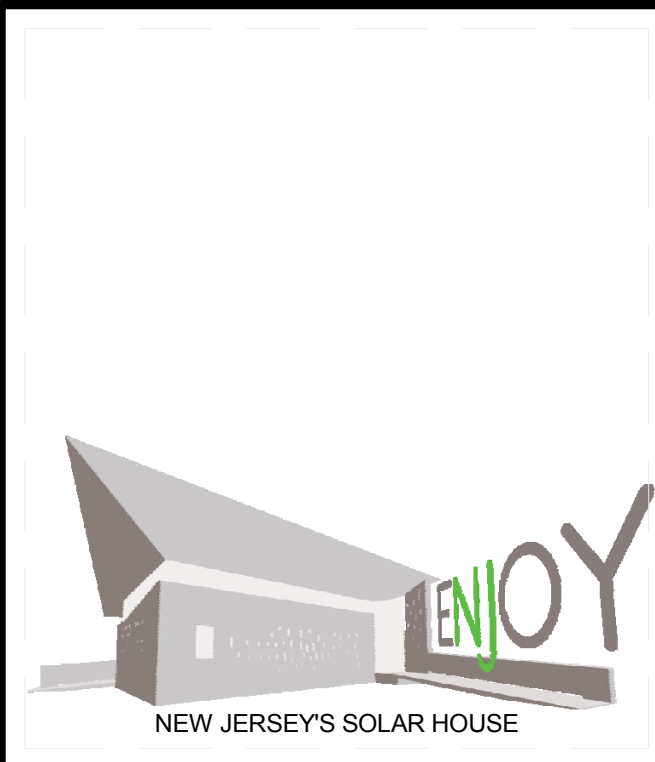
**(A5) SINGLE PLANTER PLAN**  
1 1/2" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

05 40 00.C4 3.5" X 1.5" LIGHT GAUGE ANGLE  
06 10 00.D1 2X4

**SHEET KEYNOTES**



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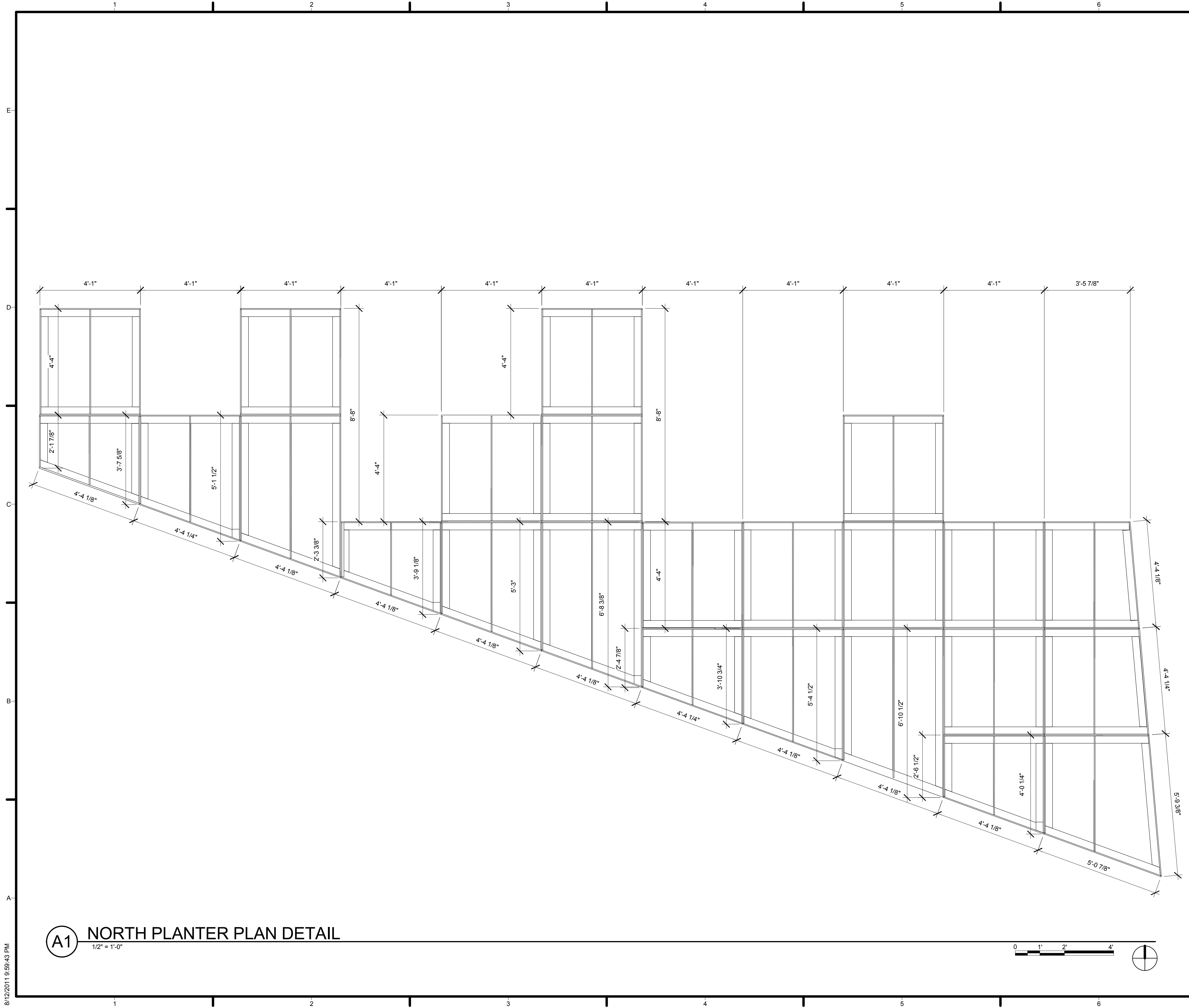
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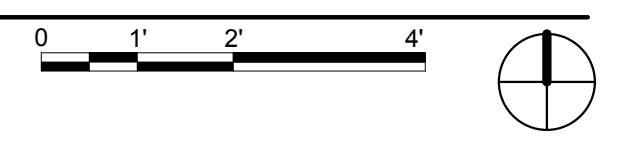
SHEET TITLE  
**PLANTING DETAILS**

**L-502**





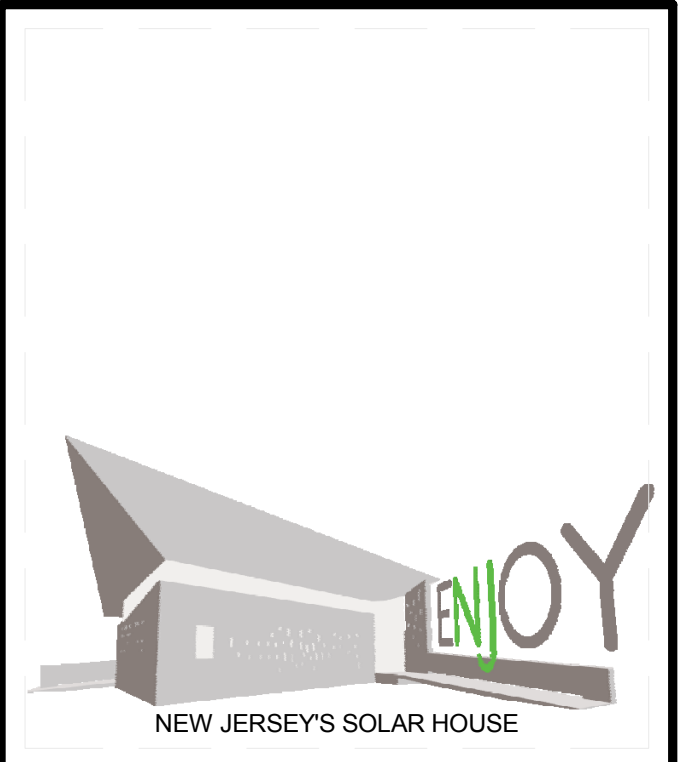
**A1 NORTH PLANTER PLAN DETAIL**  
1/2" = 1'-0"



**GENERAL SHEET NOTES**

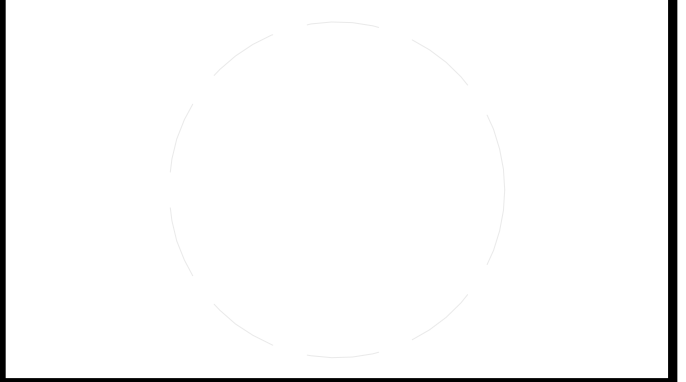
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SHEET TITLE  
**PLANTING DETAILS**

**L-503**

8/12/2011 9:59:43 PM



PLANTING SCHEDULE				
ID	TYPE	HEIGHT	COUNT	DESCRIPTION
A	VARIEGATED BLACK SEDGE	12"-18"	6	BUSHY GREEN GRASS
B	CONEFLOWER	22"	6	PINK OR PURPLE FLOWER WITH RED CENTER
C	AMERICAN DUNE GRASS	48"	14	TALL GREEN GRASS
D	SEASIDE GOLDENROD	18"	6	YELLOW FLOWERING PLANT
E	AMERICAN BEACH GRASS	30"	30	TALL GREEN GRASS
F	FALSE ASTER	18"-24"	6	WHITE FLOWER WITH YELLOW CENTER
G	LEAF LETTUCE	12"	18	DEEP GREEN LETTUCE WITH LOOSE LEAVES
H	BROCCOLI	36"	24	HARDY VEGETABLE OF CABBAGE FAMILY
I	BELL PEPPERS	6"-36"	15	PLUMP BELL SHAPED VEGETABLES
J	ONIONS	4"-24"	12	TAN BULB SHAPED VEGETABLE
K	BEETS	4"-18"	12	PURPLE ROOT VEGETABLE
L	PARSLEY	12"-18"	12	BRIGHT GREEN HAIRLESS LEAFY PLANT
M	BASIL	24"-36"	6	ROUND POINTED LEAVES, HIGLY FRAGRANT



A



B



C



D



E



F



G



H



I



J



K



L

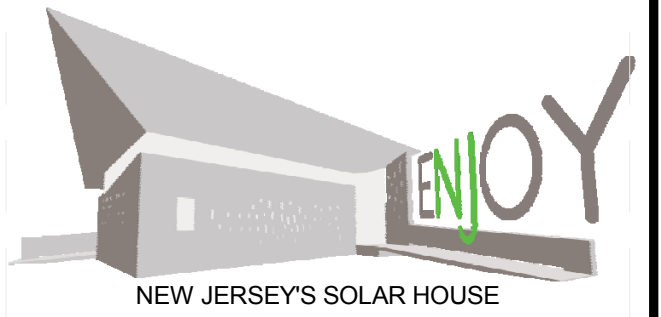


M

GENERAL SHEET NOTES

REFERENCE KEYNOTES

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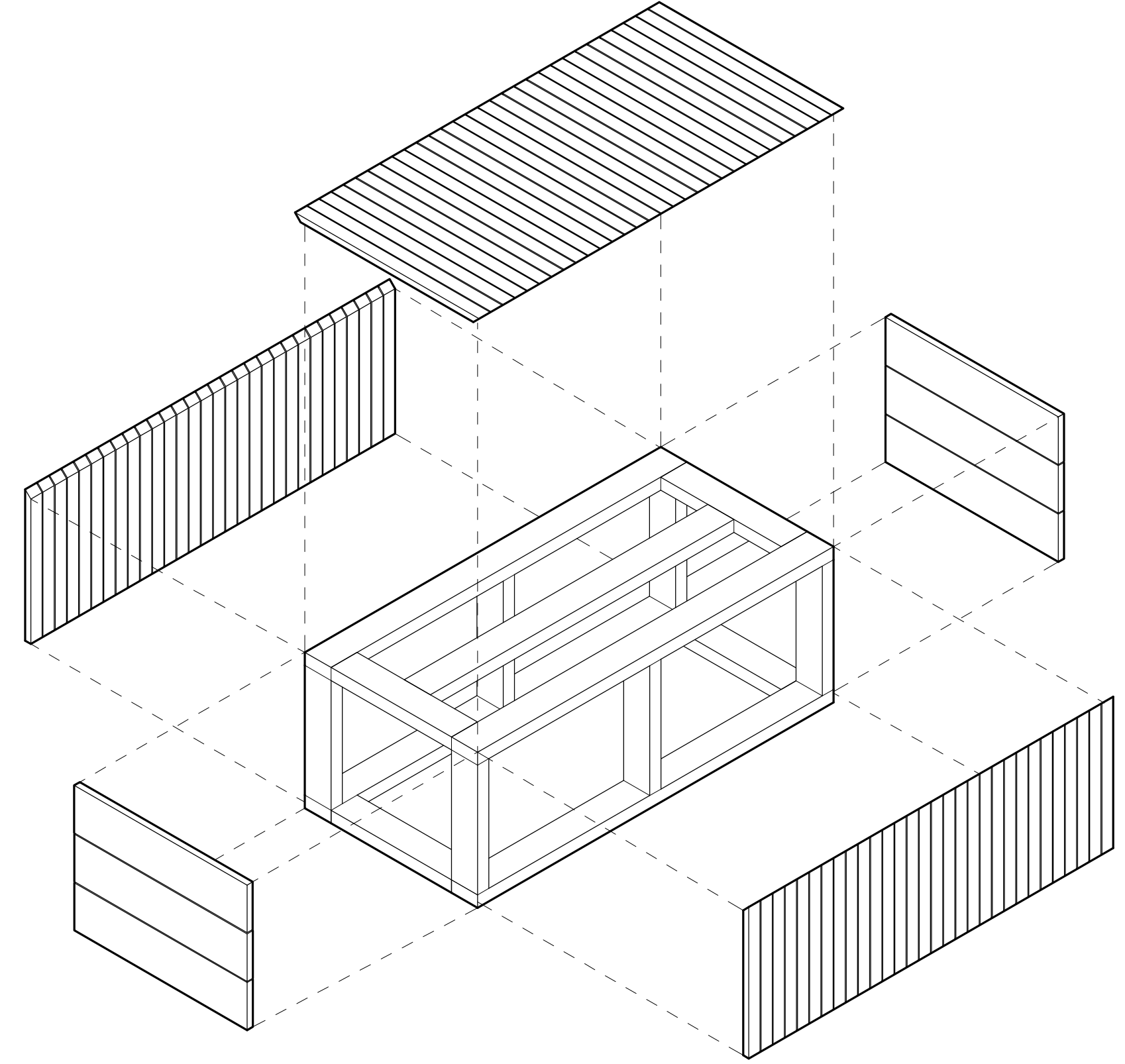
SHEET TITLE

PLANTING SCHEDULES

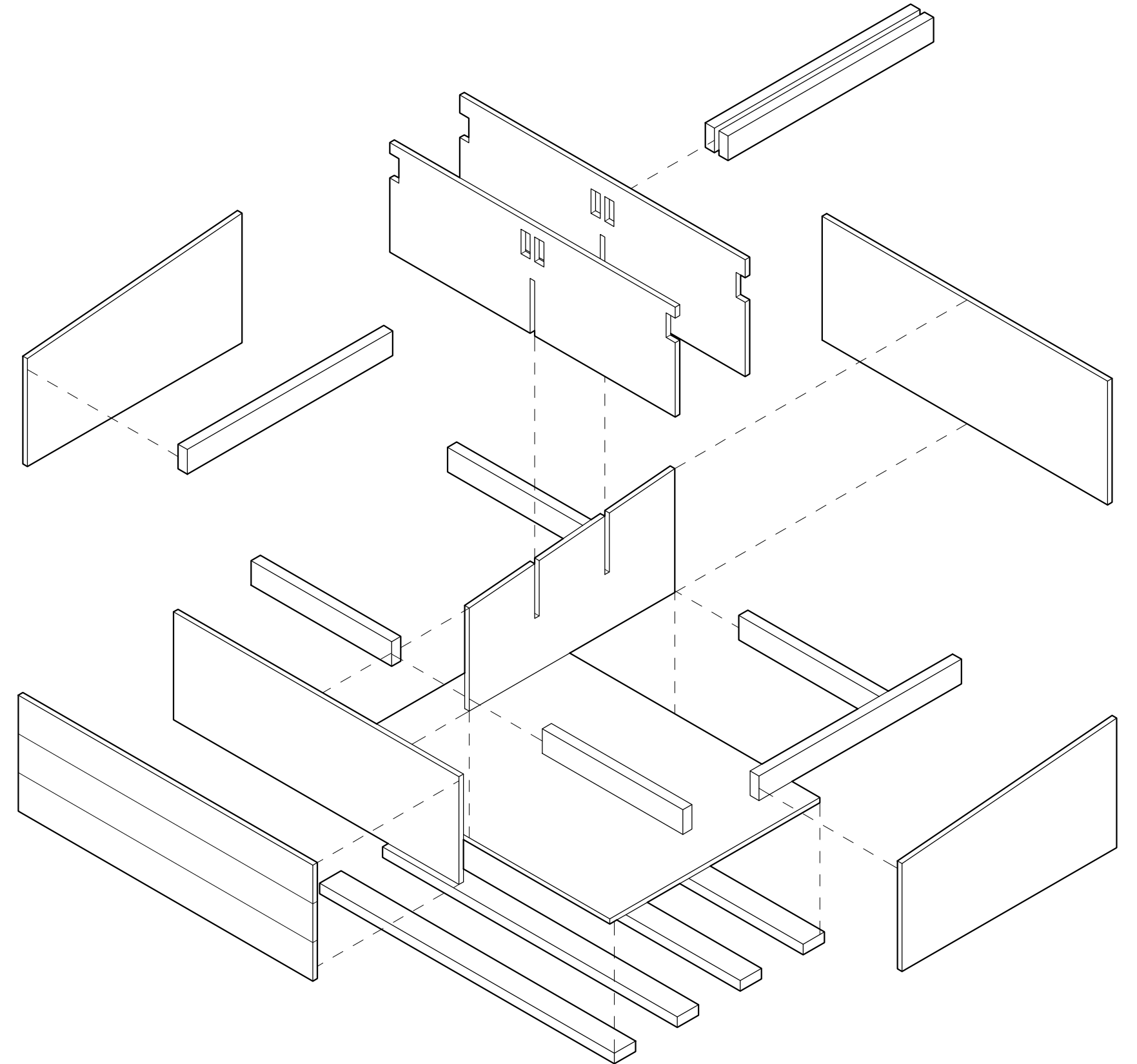
L-602



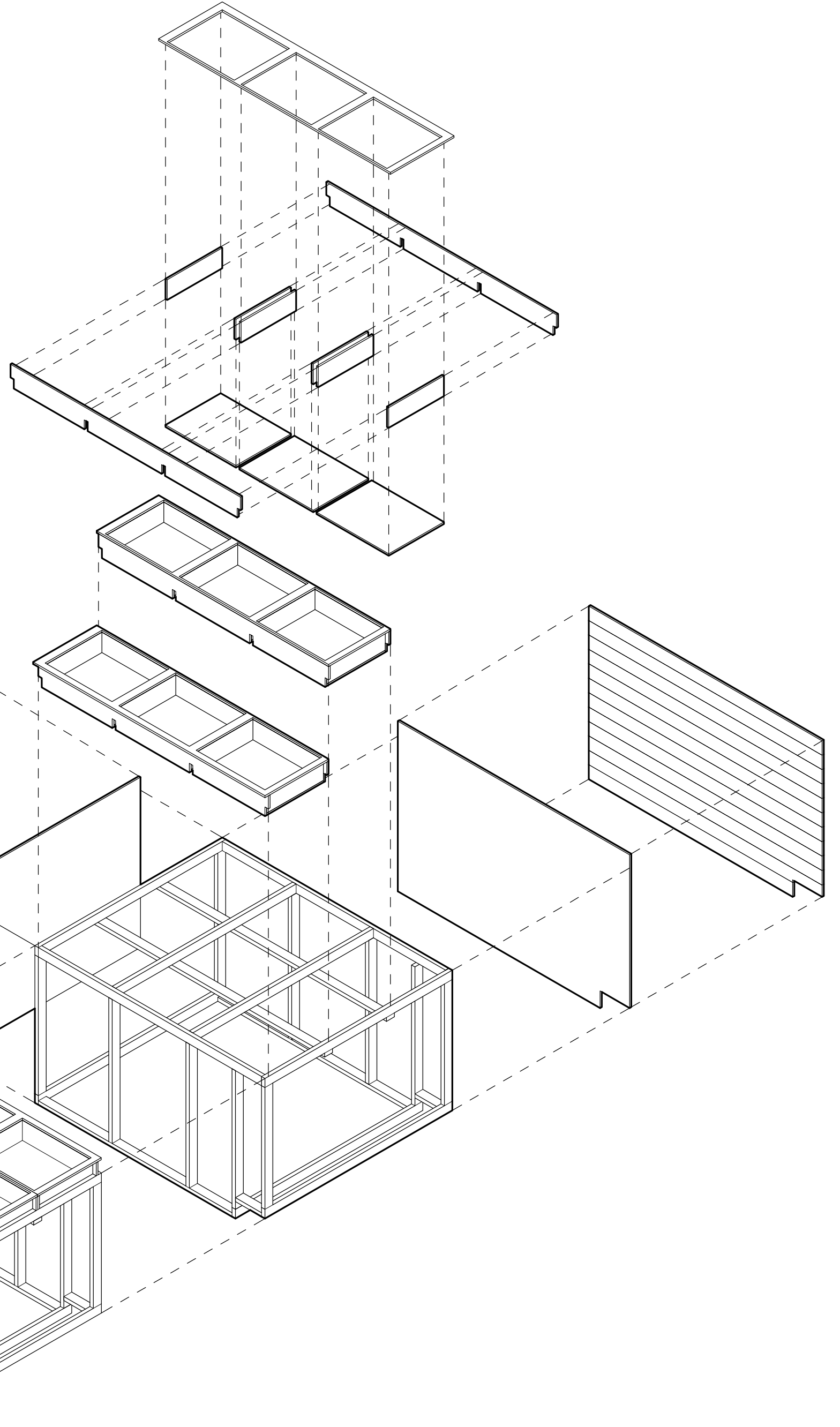
1 2 3 4 5 6 7



**C1 FRONT BENCH EXPLODED ISOMETRIC**  
 1" = 1'-0"  
 0 1/2' 1' 2'



**A1 PLANTER EXPLODED ISOMETRIC**  
 12" = 1'-0"  
 0 1 2

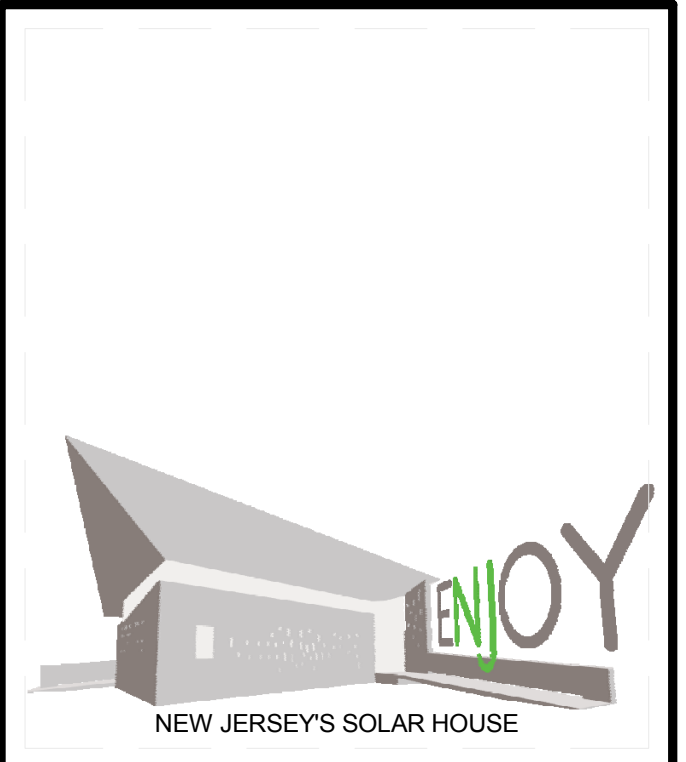


**A3 TANK HOUSING EXPLODED ISOMETRIC**  
 3/8" = 1'-0"  
 0 2' 4' 6'

**GENERAL SHEET NOTES**

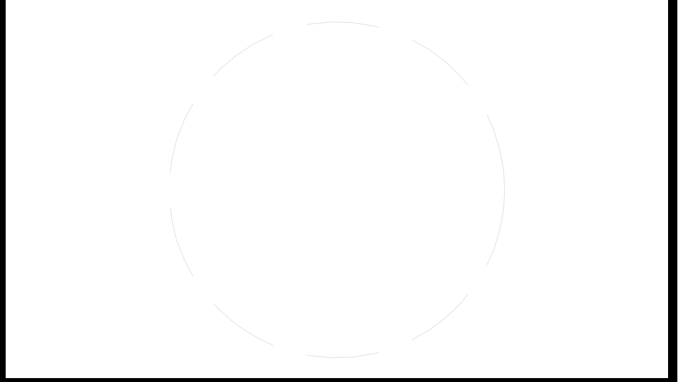
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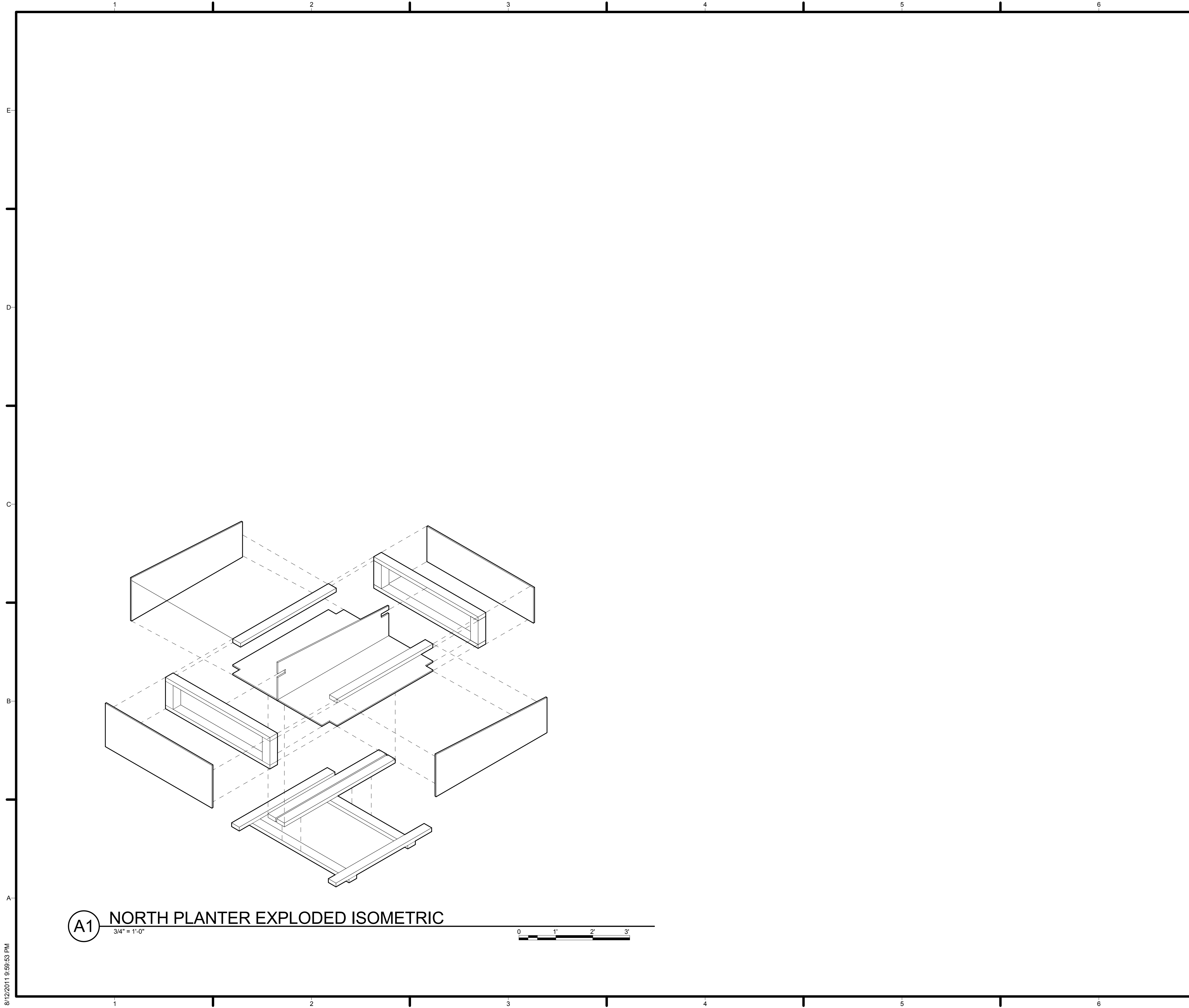
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SHEET TITLE  
**LANDSCAPE ISOMETRICS**

**L-911**

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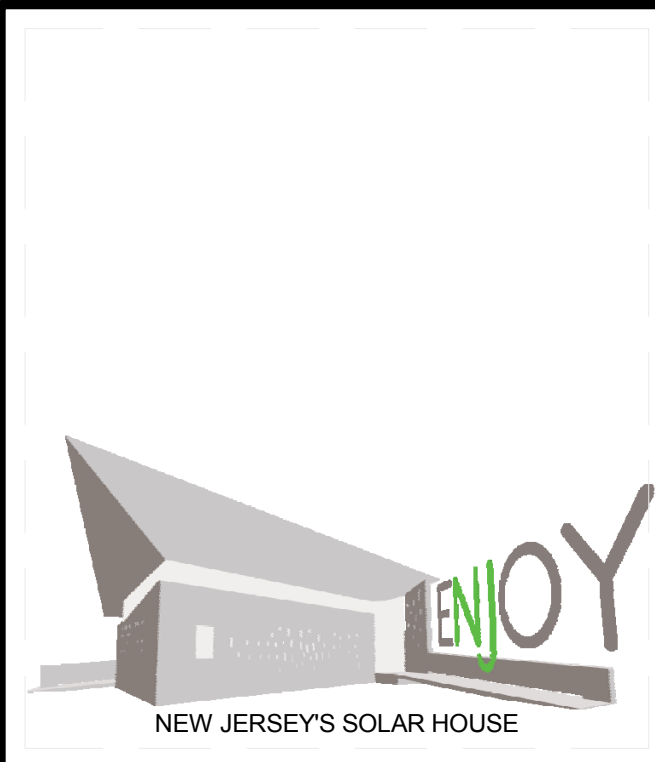
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GENERAL SHEET NOTES

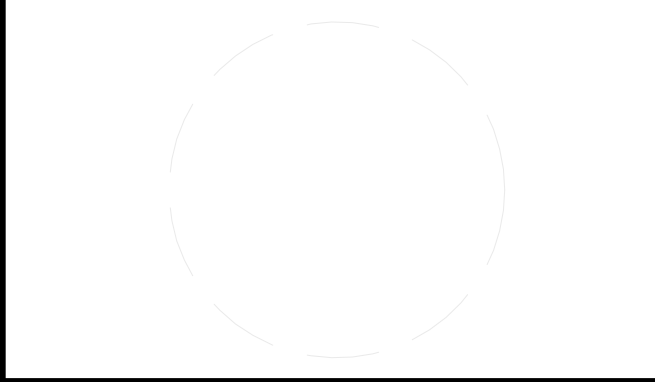
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SHEET TITLE  
**LANDSCAPE ISOMETRICS**

**L-912**

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**CODES AND STANDARDS**

- WHERE DOCUMENTS ARE REFERENCED IN THE GENERAL AND DESIGN NOTES, THEY SHALL BE THE LATEST EDITIONS, UNLESS OTHERWISE NOTED.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE OF THE STATE OF NEW JERSEY (BC 2009), INCLUDING REFERENCE STANDARDS, ADDENDA AND APPENDICES.
- IN ADDITION, THE FOLLOWING CODES, STANDARDS AND SPECIFICATIONS SHALL APPLY WHERE MORE STRINGENT AND AS MODIFIED BY THE BUILDING CODE:
  - ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY", 2008.
  - AISC "MANUAL OF STEEL CONSTRUCTION", 13TH EDITION [2005]
  - AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
  - "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS"
  - AWS D1.1 "STRUCTURAL WELDING CODE"
  - AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS"
  - ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES ASCE 7-10.

**FOUNDATIONS**

- NOT USED
- THE FOLLOWING ALLOWABLE BEARING PRESSURES WERE USED IN THE PREPARATION OF THESE DRAWINGS:
  - 1500 PSF
- CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SURFACE AND SUBSURFACE CONDITIONS IN ADDITION TO THE INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT.
- CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC. SUCH ACTIVITIES SHALL NOT DAMAGE ADJACENT STRUCTURES.
- CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION AND DESIGN OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN EXCAVATIONS, EARTH BANKS AND SUPPORT ANY EXISTING STRUCTURES.
- NOT USED
- NOT USED
- NEW FOOTINGS, WHICH ARE LOCATED IMMEDIATELY ADJACENT TO EXISTING FOOTINGS, SHALL BE FOUNDED AT THE SAME ELEVATION AS THE EXISTING FOOTINGS, UNLESS OTHERWISE NOTED. EXISTING ADJACENT FOOTINGS SHALL NOT BE UNDERMINED BY EXCAVATION OR NEW CONSTRUCTION.
- EXTERIOR FOOTINGS, AND OTHER FOOTINGS SUSCEPTIBLE TO DAMAGE RESULTING FROM FROST ACTION, SHALL BE FOUNDED AT A MINIMUM DEPTH OF 3' BELOW FINAL GROUND LEVEL, UNLESS OTHERWISE NOTED.
- TEMPORARY FROST PROTECTION SHALL BE PROVIDED DURING COLD WEATHER CONSTRUCTION FOR ALL FOOTINGS.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING'S PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER.
- UNLESS OTHERWISE INDICATED, BACKFILL SHALL NOT BE PLACED AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS), UNTIL THE FLOOR CONSTRUCTIONS OR PERMANENT PROPPING/ TIE BACKS PROVIDING LATERAL SUPPORT TO THE WALL ARE IN PLACE AND HAVE ATTAINED 85% THEIR DESIGN STRENGTH.
- BACKFILLING AGAINST FOUNDATION WALLS, WHERE THERE IS GRADE ON BOTH SIDES OF THE WALL, SHALL BE CARRIED OUT IN SUCH A MANNER THAT THE DIFFERENCE IN SOIL LEVELS IS NEVER MORE THAN 2 FEET.
- FOOTINGS SHALL BE PROVIDED FOR ALL NON-LOAD BEARING MASONRY WALLS 10 INCHES OR THICKER. 8-INCH THICK NON-LOAD BEARING MASONRY WALLS SHALL REST ON THICKENED SLAB ON GRADE, AS SHOWN IN TYPICAL DETAILS. ALL NON-LOAD BEARING WALLS 6 INCH THICK AND LESS SHALL REST ON THE SLAB ON GRADE, UNLESS OTHERWISE SHOWN OR NOTED.

**REINFORCED CONCRETE**

LOCATION IN STRUCTURE	f <sub>c</sub> (PSI)	AGGREGATE	MIX CLASS
FOOTINGS, CAISSONS	8000	NORMAL WEIGHT	
PRECAST WALL PANELS	8000	NORMAL WEIGHT	
PRECAST ROOF PANELS	8000	LIGHTWEIGHT	

- f<sub>c</sub> IS THE CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS OR AT 7 DAYS FOR HIGH EARLY STRENGTH CONCRETE.
  - MIX CLASS AS DEFINED IN THE SPECIFICATIONS.
- ALL CONCRETE MIXES SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE AND THE ACI 318, MIX DESIGNS FOR EACH TYPE AND STRENGTH SHALL BE PREPARED BY CONTRACTOR AND TESTED BY AN INDEPENDENT TESTING LABORATORY. THE MIX DESIGNS SHALL THEN BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
  - PORTLAND CEMENT SHALL CONFORM TO ASTM C150, WHERE CONCRETE IS IN CONTACT WITH SOIL, THE TYPE OF EXPOSURE SHALL DETERMINE THE CEMENT TYPE:
    - SEVERE SULFATE EXPOSURE TYPE V
    - MODERATE SULFATE EXPOSURE TYPE II
    - ALL OTHER TYPE I
 CONTRACTOR SHALL DETERMINE THE LEVEL OF EXPOSURE BY TESTING OR OTHER SUITABLE MEANS.
  - FLY ASH MAY BE USED IN CONCRETE MIXES. THE FLY ASH SHALL CONFORM TO ASTM C618, CLASS F AND ITS ADDITION SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT.
  - NORMAL WEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33.
  - LIGHTWEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C330 AND ASTM C157.
  - CONCRETE FORMS SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS INDICATED ON THE STRUCTURAL DRAWINGS, AND SHALL COMPLY WITH REQUIREMENTS OF ACI 318
  - THE PROJECTING CORNERS OF COLUMNS, BEAMS, WALLS, ETC. SHALL BE FORMED WITH 3/4 INCH CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
  - CONSTRUCTION JOINTS SHALL BE DOWELED, KEYS AND THE SURFACES SHALL BE CLEANED AND LANTANCE REMOVED. ALTERNATIVELY, WHERE APPROVED BY ENGINEER, PROVIDE JOINTS CLEANED AND ROUGHENED TO 1/4 INCH AMPLITUDE BY MECHANICAL METHODS.
  - LOCATION OF CONSTRUCTION JOINTS SHALL BE AS INDICATED ON STRUCTURAL DRAWINGS. PROVIDE WATERSTOPS FOR ALL CONSTRUCTION JOINTS BELOW WATER TABLE.
  - REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. REINFORCING BARS, WHICH ARE TO BE WELDED, SHALL CONFORM TO APPLICABLE ASTM AND AWS SPECIFICATIONS.
  - ALL REINFORCING BARS MARKED "CONTINUOUS" SHALL BE TENSION SPLICED, UNLESS OTHERWISE SHOWN ON DRAWINGS.
  - ALL BARS AT NON-CONTINUOUS ENDS SHALL HAVE A STANDARD HOOK.
  - PROVIDE DEVELOPMENT AND SPLICES OF REINFORCEMENT ACCORDING TO THE TYPICAL DETAIL TABLES.
  - UNLESS OTHERWISE NOTED, ALL DOWELS SHALL BE FULLY DEVELOPED IN TENSION, UNLESS OTHERWISE NOTED.
  - 1/2"x1/4" C<X> INDICATES A STEEL MEMBER WITH X NUMBER OF SHEAR STUDS WELDED TO THE TOP FLANGE EVENLY SPACED ALONG THE MEMBER, WHERE INDICATED THIS <X1,X2,>\_XN>, THEN THE NUMBERS X1 TO XN INDICATE THE NUMBER OF STUDS EVENLY SPACED BETWEEN EACH INTERSECTING BEAMS.
  - 1/2"x1/4" C= Y INDICATES A STEEL MEMBER WITH AN UPWARD CAMBER OF Y INCHES. DOWNWARD CAMBERS ARE GIVEN AS NEGATIVE.
  - ALL CONNECTIONS SHALL BE COMPLETED PRIOR TO CASTING SLAB
  - SLABS SHALL BE CAST TO A CONSTANT THICKNESS OVER BEAMS USING DEPTH GAGES, PROVIDE ADDITIONAL CONCRETE FOR DEFLECTION OF DECK, AFTER CONCRETE PLACEMENT FINISH SLABS TO REQUIRED TOLERANCES.
  - POUR STOP ANGLES SHOWN ARE MINIMUM. PROVIDE HEAVIER GAGE AND STRAPS AS REQUIRED TO ACHIEVE REQUIRED EDGE OF SLAB TOLERANCES.
  - MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS SHALL NOT PASS THROUGH CONCRETE COLUMNS AND BEAMS, UNLESS SPECIFICALLY DETAILED ON DRAWINGS.
  - NO ALUMINUM SHALL BE EMBEDDED IN CONCRETE.
  - CONTRACTOR SHALL NOTIFY TESTING AGENCY AND OWNER, 24 HOURS BEFORE POURING OF CONCRETE, FOR INSPECTION OF REINFORCEMENT LAYOUT. NO CONCRETE SHALL BE PROVIDED UNLESS ALL REINFORCEMENT AND INSTALLATIONS HAVE BEEN INSPECTED AND APPROVED BY THE TESTING AGENCY.

**STEEL FRAMING NOTES**

- STEEL MEMBERS ARE ASSUMED TO BE VERTICAL AND DIMENSIONED TO THEIR CENTERLINE UNLESS OTHERWISE INDICATED.
- STEEL MEMBERS NOT LOCATED IN PLAN BY A DIMENSION LINE SHALL BE EQUALLY SPACED BETWEEN DIMENSIONED MEMBERS.
- FOR SLOPING MEMBERS, THE TOP OF STEEL ELEVATIONS AT THE LOW AND HIGH POINTS SHALL COINCIDE WITH THE TOP OF STEEL ELEVATIONS OF THE MEMBERS THEY ARE FRAMING TO AT THESE LOCATIONS, UNLESS OTHERWISE NOTED.
- W12X16 <X> INDICATES A STEEL MEMBER WITH X NUMBER OF SHEAR STUDS WELDED TO THE TOP FLANGE EVENLY SPACED ALONG THE MEMBER, WHERE INDICATED THIS <X1,X2,>\_XN>, THEN THE NUMBERS X1 TO XN INDICATE THE NUMBER OF STUDS EVENLY SPACED BETWEEN EACH INTERSECTING BEAMS.
- W12X16 C= Y INDICATES A STEEL MEMBER WITH AN UPWARD CAMBER OF Y INCHES. DOWNWARD CAMBERS ARE GIVEN AS NEGATIVE.
- ALL CONNECTIONS SHALL BE COMPLETED PRIOR TO CASTING SLAB
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- POUR STOP ANGLES SHOWN ARE MINIMUM. PROVIDE HEAVIER GAGE AND STRAPS AS REQUIRED TO ACHIEVE REQUIRED EDGE OF SLAB TOLERANCES.

**STRUCTURAL STEEL**

- STRUCTURAL STEEL SHALL BE PROVIDED AS FOLLOWS:
 

SHAPE	ASTM STANDARD	F <sub>y</sub> (KSI)
WIDE FLANGES	A992	50
CHANNELS	A572 GRADE 50	50
RECTANGULAR AND ROUND HSS	A500 GRADE B	48
PIRES	A53 TYPE E	35
ANGLES	A36	36
PLATES	A572 Gr. 50	36
TEES	A992	50

  - F<sub>y</sub> IS THE MINIMUM TENSILE YIELDING STRESS TO BE PROVIDED UNLESS OTHERWISE NOTED.
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A 325 OR ASTM A 490. ALL CONNECTIONS SHALL BE TYPE N UNLESS OTHERWISE NOTED ON DRAWINGS.
- NUTS SHALL CONFORM TO ASTM A563, OR OR ASTM A194, 2H, PROVIDE WASHERS CONFORMING TO ASTM F436 AT EACH THREADED ROD OR BOLT.
- BOLT HOLES IN STEEL MEMBERS, WITH THE EXCEPTION OF BASE PLATES, SHALL BE 1/16 INCH LARGER IN DIAMETER THAN THE NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE ON DRAWINGS.
- BOLT HOLES IN STEEL BASE PLATES SHALL BE OF THE SIZE MARKED ON DRAWINGS. PROVIDE WELDED PLATE WASHERS 3", 3" 3/8" THICK MINIMUM.
- ANCHOR BOLTS SHALL BE ROUND BAR STOCK, THREADED, CONFORMING TO ASTM A36. ANCHOR BOLTS SHALL BE SUPPLIED WITH CORRESPONDING NUTS AND WASHERS.
- THREADED RODS SHALL HAVE THREADS CONFORMING TO UNC CLASS 2A (EXTERIOR THREADS) AND 2B (INTERNAL THREADS).
- WELDING MATERIALS SHALL CONFORM TO AWS D1.1. ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI AND BE LOW-HYDROGEN TYPE.
- WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
- AT PARTIAL PENETRATION WELDS THE SIZE OPEN IS THE MINIMUM EFFECTIVE THROAT. FABRICATOR SHALL PROVIDE PROPER JOINT PREPARATION TO ACHIEVE THE MINIMUM EFFECTIVE THROAT AS REQUIRED BY THE AWS CODE.
- SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF SPlice. SPLICES SHALL BE MADE ONLY AT LOCATIONS INDICATED ON DRAWINGS. FULL DETAIL AND BACK-UP CALCULATIONS OF SPLICES REQUIRE REVIEW AND APPROVAL BY THE ENGINEER.
- SHAPE AND SIZE GUSSET PLATES IN SUCH A MANNER AS TO CLEAR ALL ARCHITECTURAL FINISHES AND MECHANICAL FIXTURES (DUCTS, PIPES, ETC.). SUBMIT THE CONFIGURATION OF ALL GUSSET PLATES EXPOSED TO VIEW TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING, GUINING AND CONNECTING MEMBERS REQUIRED TO ERECT THE STRUCTURE, MAINTAIN CORRECT ALIGNMENT AND SAFELY RESIST ALL POSSIBLE COMBINATIONS OF DEAD, CONSTRUCTION, ERECTION, WIND AND OTHER LATERAL LOADS.
- REFER TO SPECIFICATIONS FOR STEELWORK PROTECTION AND COATINGS.

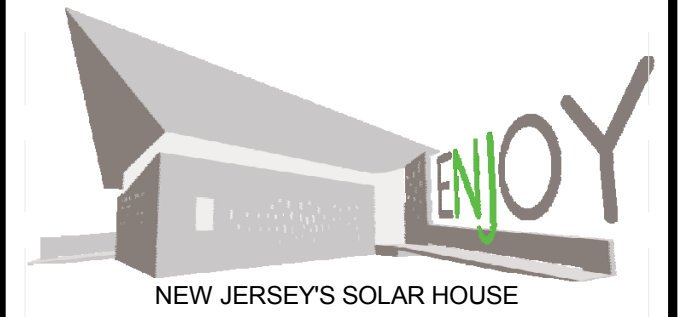
**LATERAL LOADS**

**A. WIND:**

- BUILDING HEIGHT (AT ROOF): 15 FT.
- EXPOSURE: B
- BASIC WIND SPEED: 100 MPH
- IMPORTANCE FACTOR (I<sub>w</sub>): 1.00
- BUILDING CATEGORY: II
- WIND PRESSURES:
  - VELOCITY PRESSURE EXPOSURE COEFFICIENT (K<sub>e</sub>): 0.57
  - WIND DIRECTIONALITY FACTOR (K<sub>d</sub>): 0.85
  - TOPOGRAPHIC WIND FACTOR (K<sub>zt</sub>): 1.0
  - GUST EFFECT FACTOR (G): 0.85
  - INTERNAL PRESSURE COEFFICIENT (GC)<sub>i</sub>: ±0.18

**SEISMIC DESIGN**

- ULTIMATE STRESS DESIGN METHOD.
  - EQUIVALENT LATERAL FORCE PROCEDURE
  - SEISMIC USE GROUP "I"
  - SEISMIC IMPORTANCE FACTOR I<sub>e</sub> = 1.00
  - SEISMIC DESIGN CATEGORY "B"
- SHORT PERIOD SPECTRAL RESPONSE ACCELERATION S<sub>s</sub> = 0.36 g
  - SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S<sub>1</sub> = 0.07 g
  - SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION S<sub>ds</sub> = 0.29 g
  - DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD S<sub>d1</sub> = 0.08 g
  - MAXIMUM SHORT PERIOD SPECTRAL RESPONSE ACCELERATION S<sub>ms</sub> = 0.43 g
  - MAXIMUM SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S<sub>m1</sub> = 0.12 g
  - SITE CLASS C, ACCORDING TO TABLE 1615.1.1
  - SITE COEFFICIENT F<sub>a</sub> = 1.2, ACCORDING TO TABLE 1615.1.2 (1)
  - SITE COEFFICIENT F<sub>v</sub> = 1.7, ACCORDING TO TABLE 1615.1.2 (2)



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MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

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**SHEET TITLE**  
**STRUCTURAL NOTES AND SYMBOLS**

**S-001**



**A1** FOUNDATION PLAN  
1/4" = 1'-0"

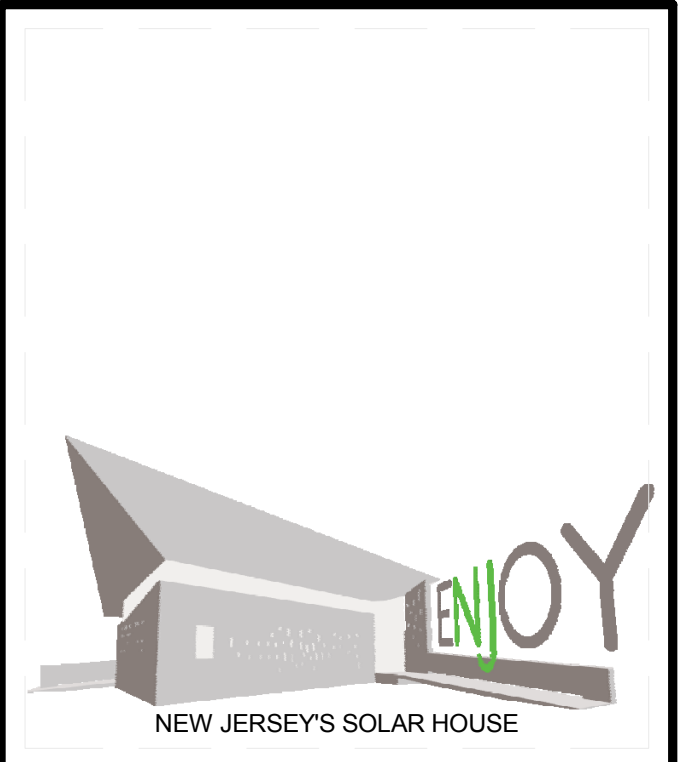
**GENERAL SHEET NOTES**

1. REFER TO C-101 FOR LOCATION DIMENSIONS

**REFERENCE KEYNOTES**

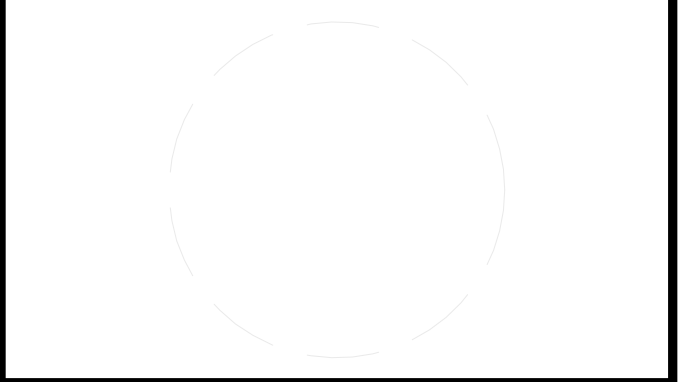
**SHEET KEYNOTES**

FOOTING AREAS AND BEARING PRESSURES			
BEARING PAD	ID	Area	BEARING PRESSURE (PSF)
A	3	52 SF	885
B	1	10 SF	653
C	2	27 SF	914
D	2	27 SF	1010
E	2	27 SF	998
F	2	27 SF	1182
G	1	10 SF	816
H	1	10 SF	934
I	1	10 SF	815
J	1	10 SF	730
K	1	10 SF	571
L	1	10 SF	571
M	1	10 SF	993
N	2	27 SF	725
O	2	27 SF	894
P	2	27 SF	939
Q	1	10 SF	595
R	1	10 SF	961
S	3	52 SF	
T	3	52 SF	
U	3	52 SF	885
V	3	37 SF	



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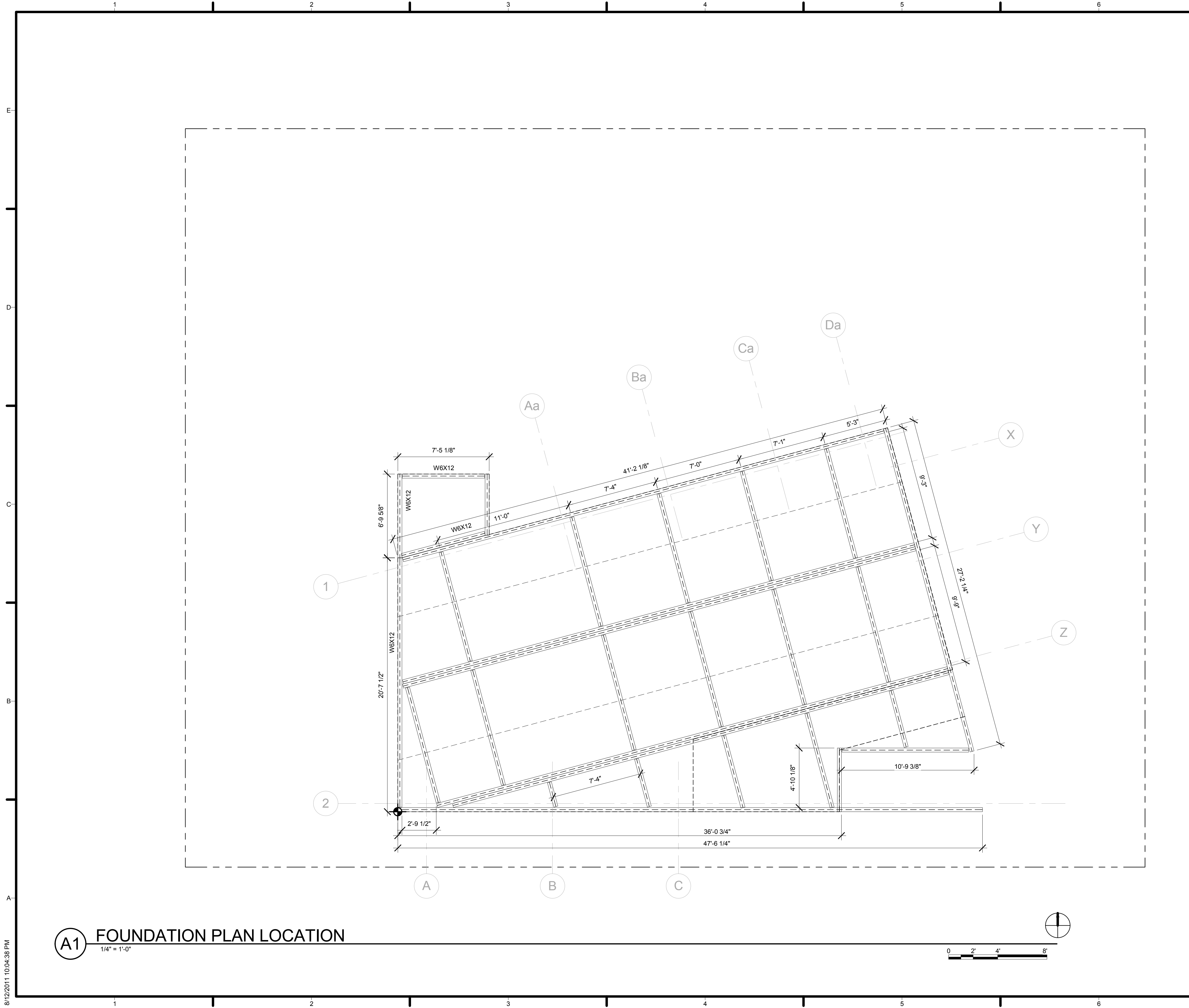
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SHEET TITLE  
**FOUNDATION PLAN**

**S-101**

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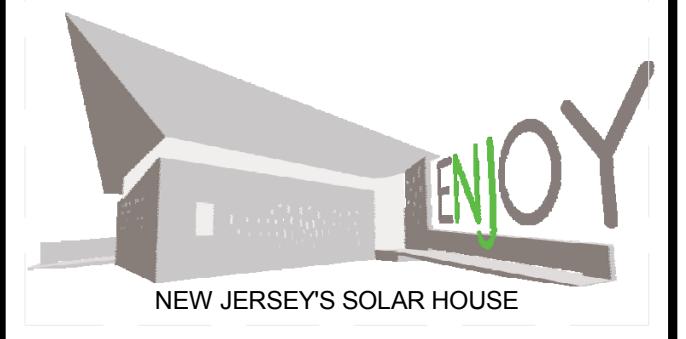
**A1** FOUNDATION PLAN LOCATION  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

1. REFER TO C-101 FOR LOCATION DIMENSIONS

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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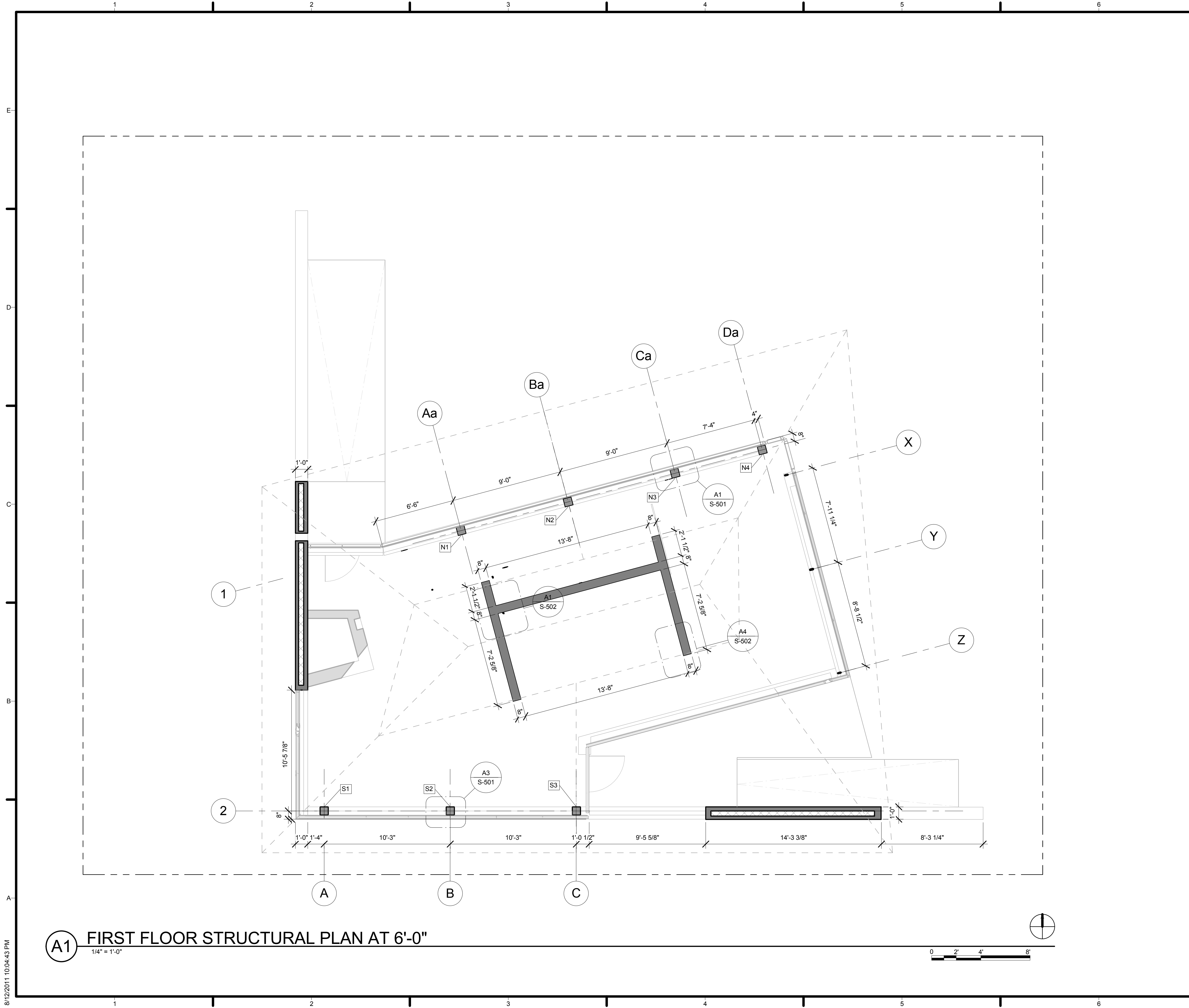
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SHEET TITLE  
**FOUNDATION PLAN LOCATION**

**S-101A**

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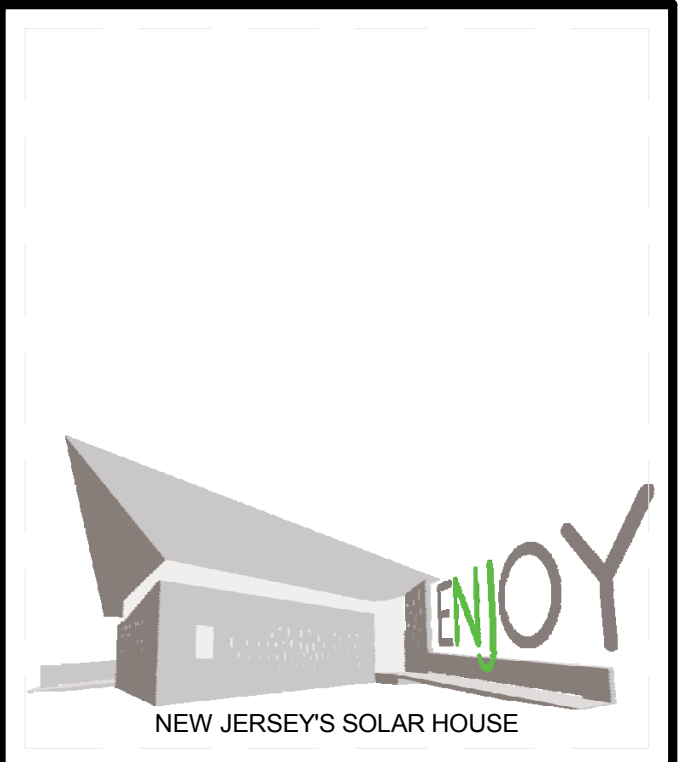


**A1** FIRST FLOOR STRUCTURAL PLAN AT 6'-0"  
1/4" = 1'-0"

GENERAL SHEET NOTES

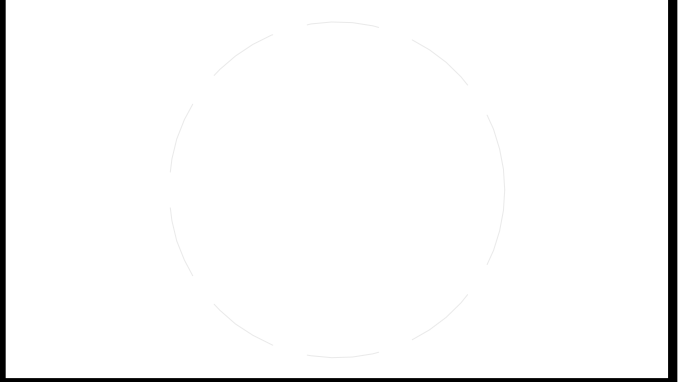
REFERENCE KEYNOTES

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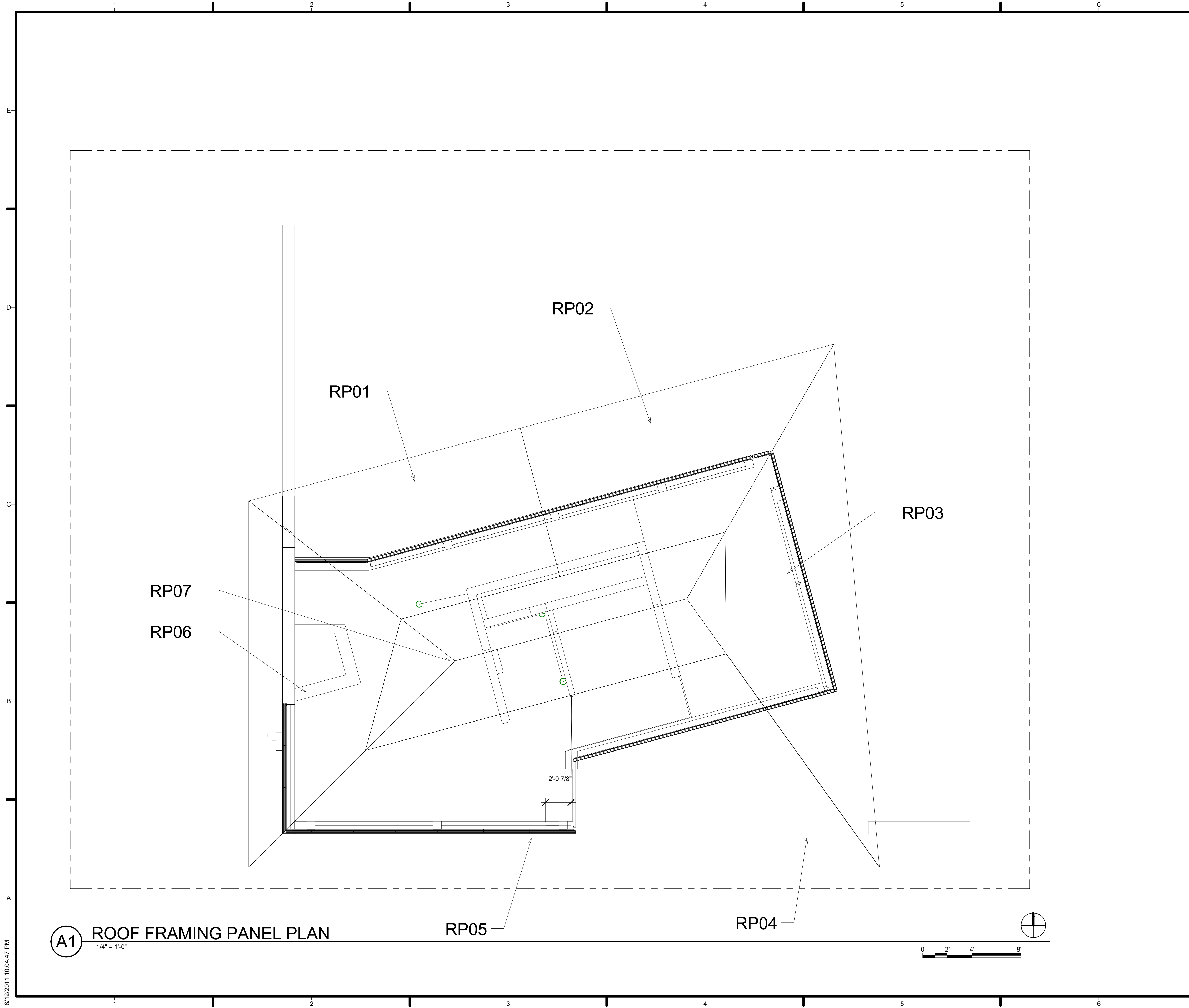
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SHEET TITLE  
**FIRST FLOOR STRUCTURAL PLAN**

**S-102**

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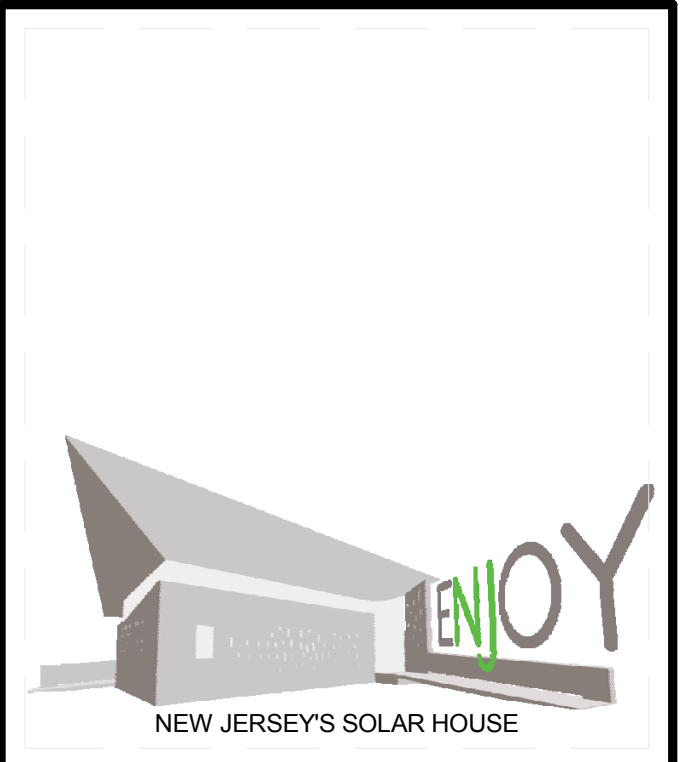


**(A1) ROOF FRAMING PANEL PLAN**  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

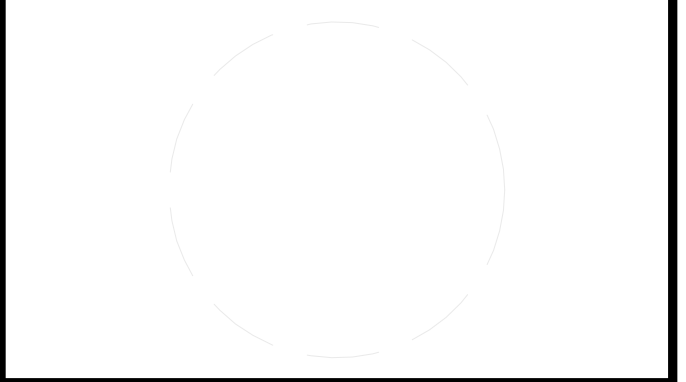
**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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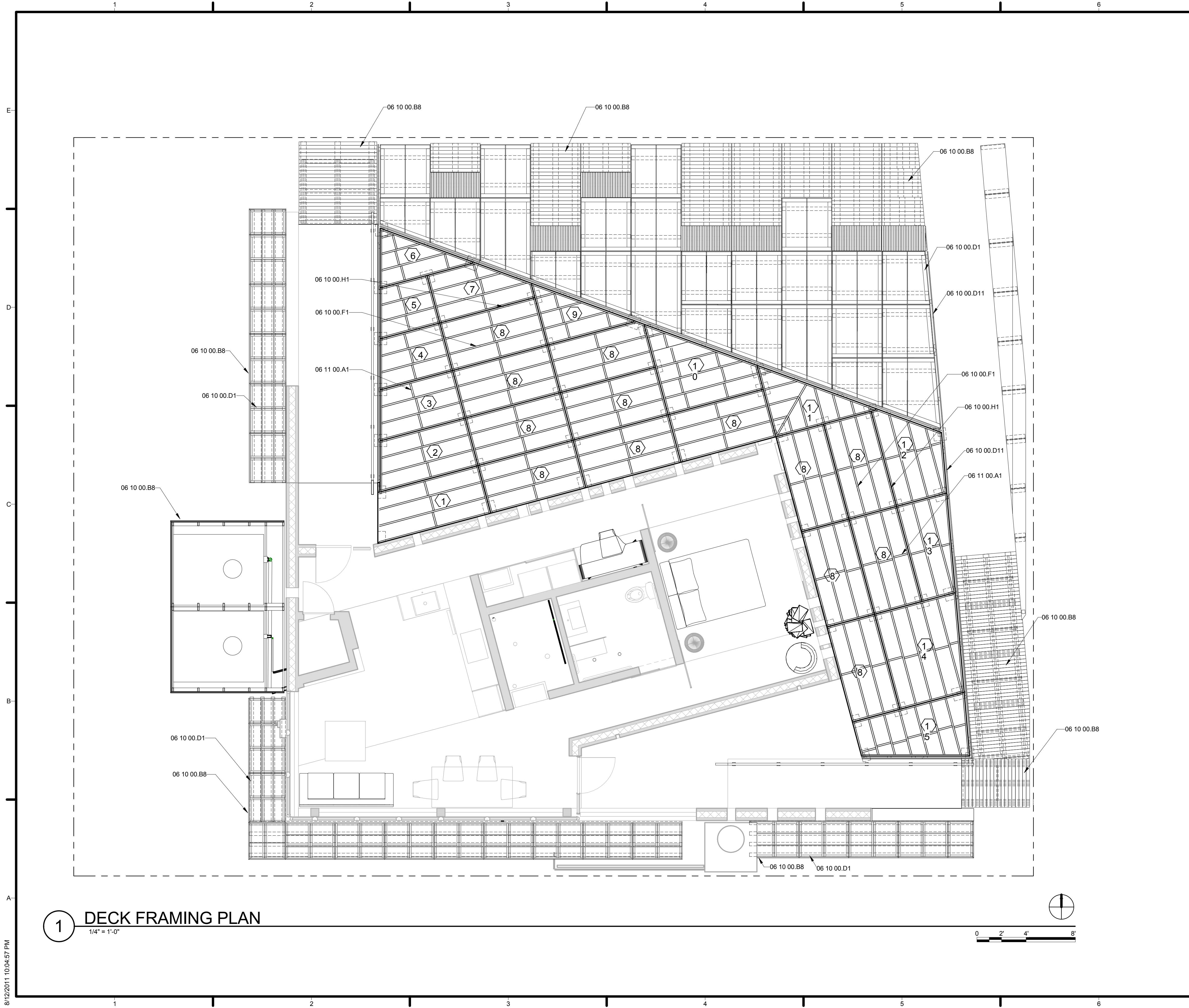
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SHEET TITLE  
**ROOF PANEL PLAN**

**S-103**

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**1 DECK FRAMING PLAN**  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

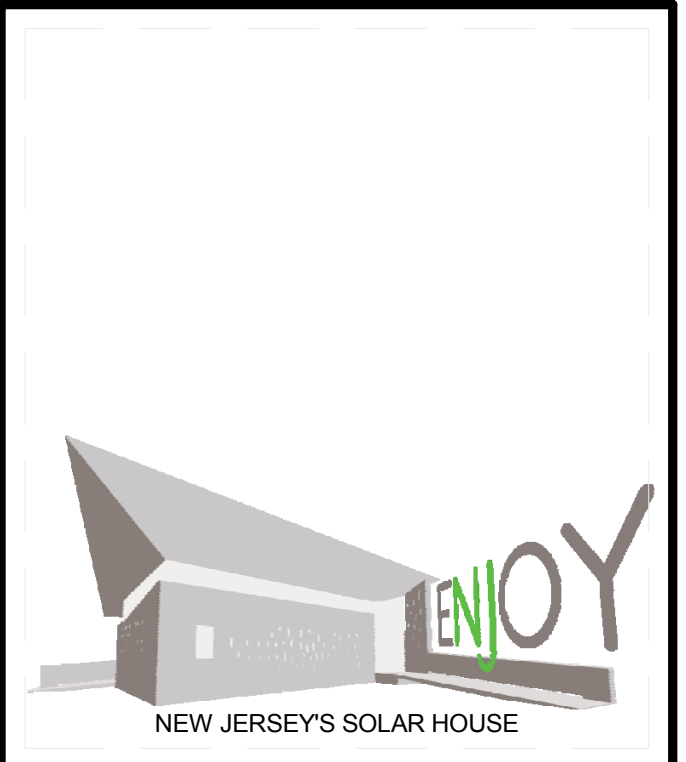
1. 4X4 POSTS TO BE CUT ON SITE ACCORDING TO GRADE CHANGES.

**REFERENCE KEYNOTES**

06 10 00.B8	1X6
06 10 00.D1	2X4
06 10 00.D11	3/4" PLYWOOD
06 10 00.F1	2X6
06 10 00.H1	2X10
06 11 00.A1	BLOCKING

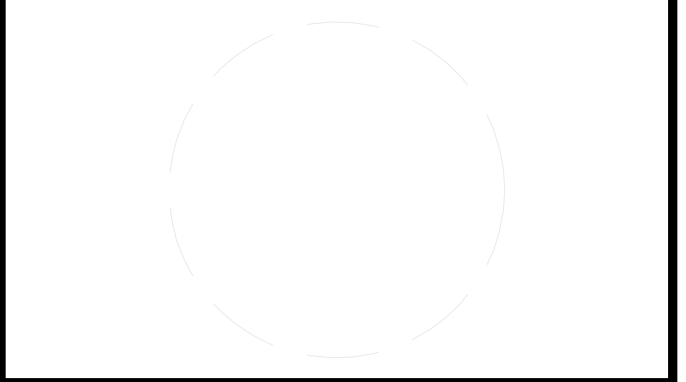
**SHEET KEYNOTES**

1. DECK MODULE TYPE 1. SEE SHEET S-521.
2. DECK MODULE TYPE 2. SEE SHEET S-521.
3. DECK MODULE TYPE 3. SEE SHEET S-521.
4. DECK MODULE TYPE 4. SEE SHEET S-521.
5. DECK MODULE TYPE 5. SEE SHEET S-521.
6. DECK MODULE TYPE 6. SEE SHEET S-521.
7. DECK MODULE TYPE 7. SEE SHEET S-522.
8. DECK MODULE TYPE 8. SEE SHEET S-522.
9. DECK MODULE TYPE 9. SEE SHEET S-522.
10. DECK MODULE TYPE 10. SEE SHEET S-522.
11. DECK MODULE TYPE 11. SEE SHEET S-523.
12. DECK MODULE TYPE 12. SEE SHEET S-523.
13. DECK MODULE TYPE 13. SEE SHEET S-523.
14. DECK MODULE TYPE 14. SEE SHEET S-523.
15. DECK MODULE TYPE 15. SEE SHEET S-524.



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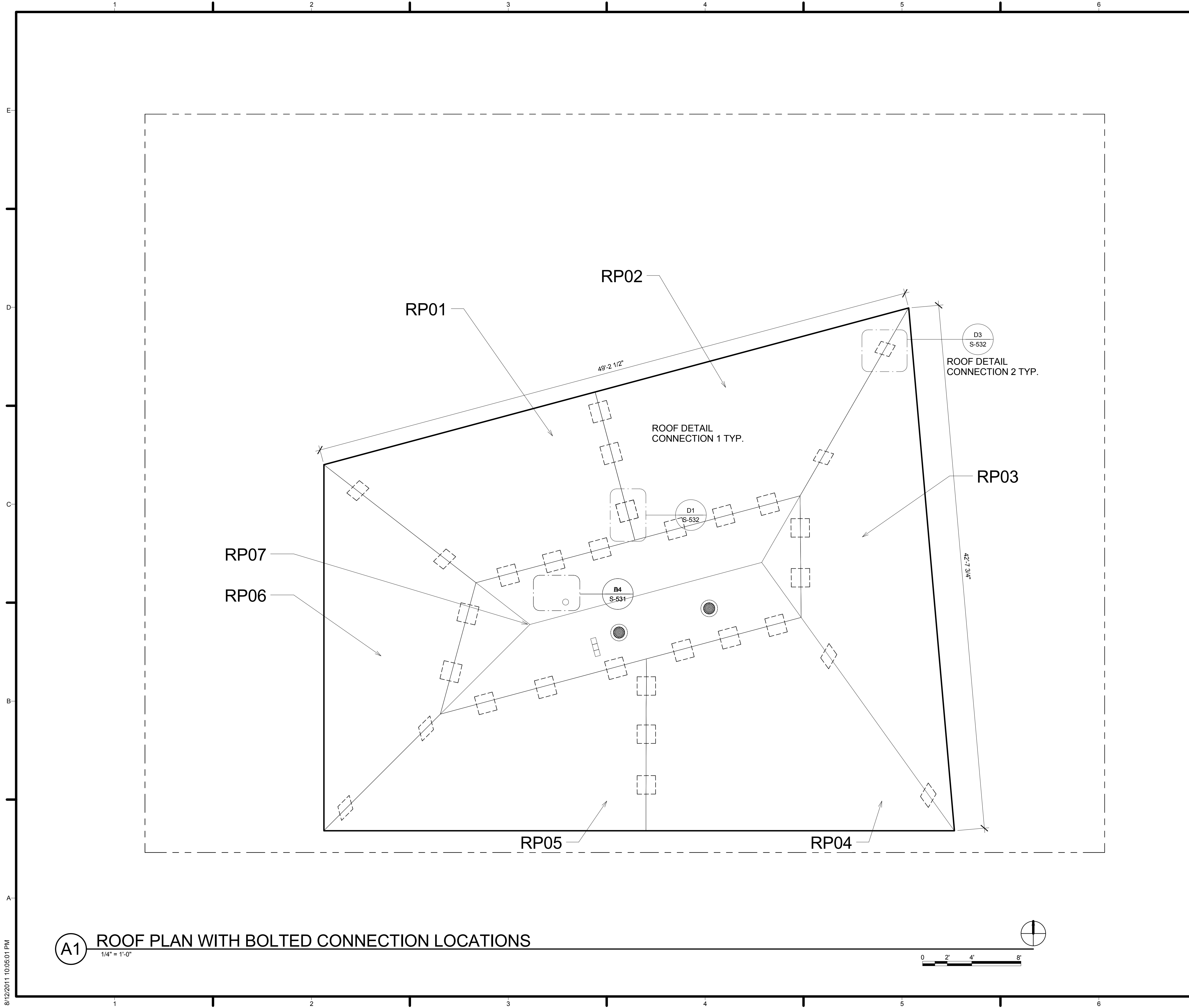
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
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SHEET TITLE  
**DECK FRAMING PLAN**

**S-104**

8/12/2011 10:04:57 PM

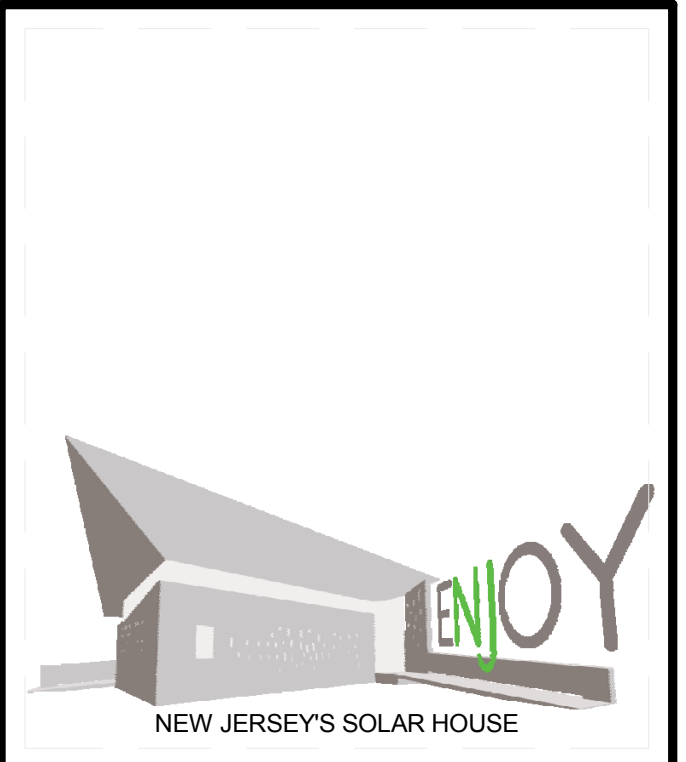




GENERAL SHEET NOTES

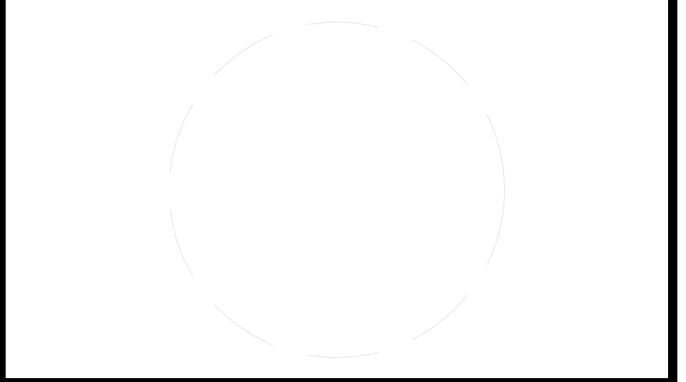
REFERENCE KEYNOTES

SHEET KEYNOTES



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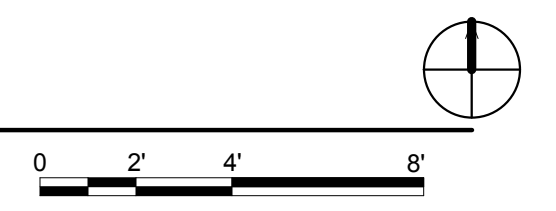
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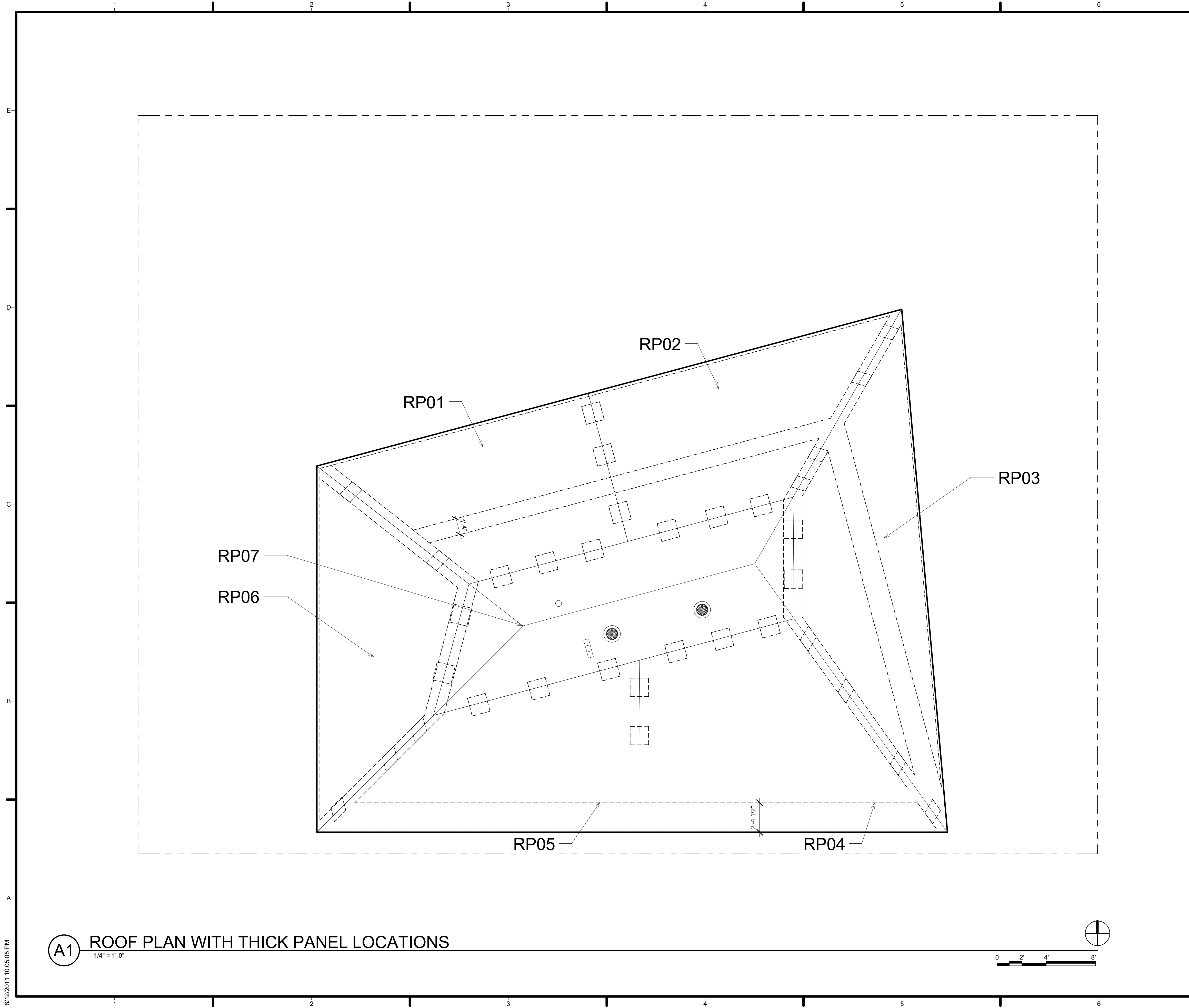
SHEET TITLE  
**ROOF PLAN WITH CONNECTIONS**

**S-105**

**(A1) ROOF PLAN WITH BOLTED CONNECTION LOCATIONS**  
 1/4" = 1'-0"



8/12/2011 10:05:01 PM



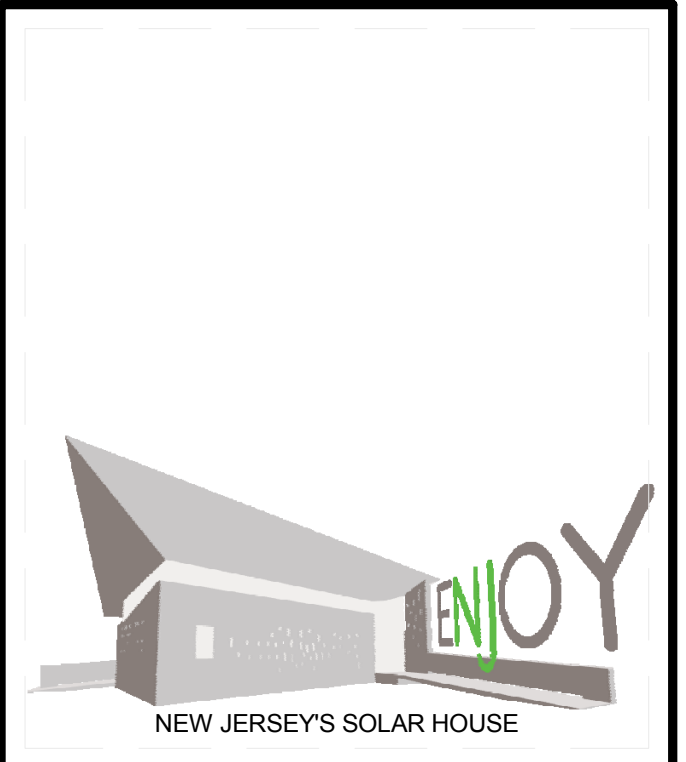
**GENERAL SHEET NOTES**

1. REFER TO C-101 FOR LOCATION DIMENSIONS

**REFERENCE KEYNOTES**

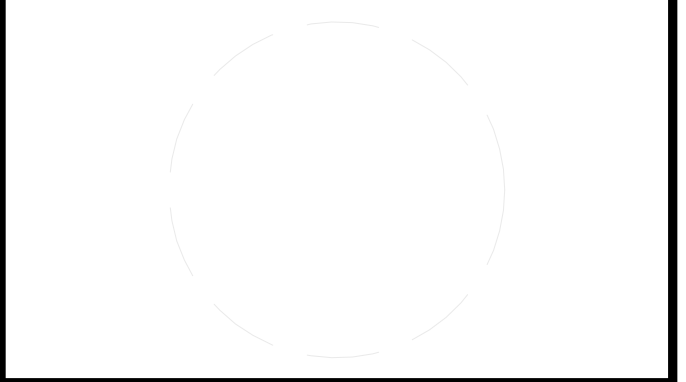
**SHEET KEYNOTES**

- 1. ALL ROOF PANELS WILL HAVE THE FOLLOWING RE-INFORCEMENT:  
#5 REBAR @ 7" O.C. TOP AND BOTTOM WYTHES
- 2. FOR TEMPERATURE AND CRACKING ALL ROOF PANELS WILL HAVE THE FOLLOWING RE-INFORCEMENT:  
#3 REBAR @ 12" O.C. TOP AND BOTTOM WYTHES PARALLEL TO PANELS OUTER EDGE



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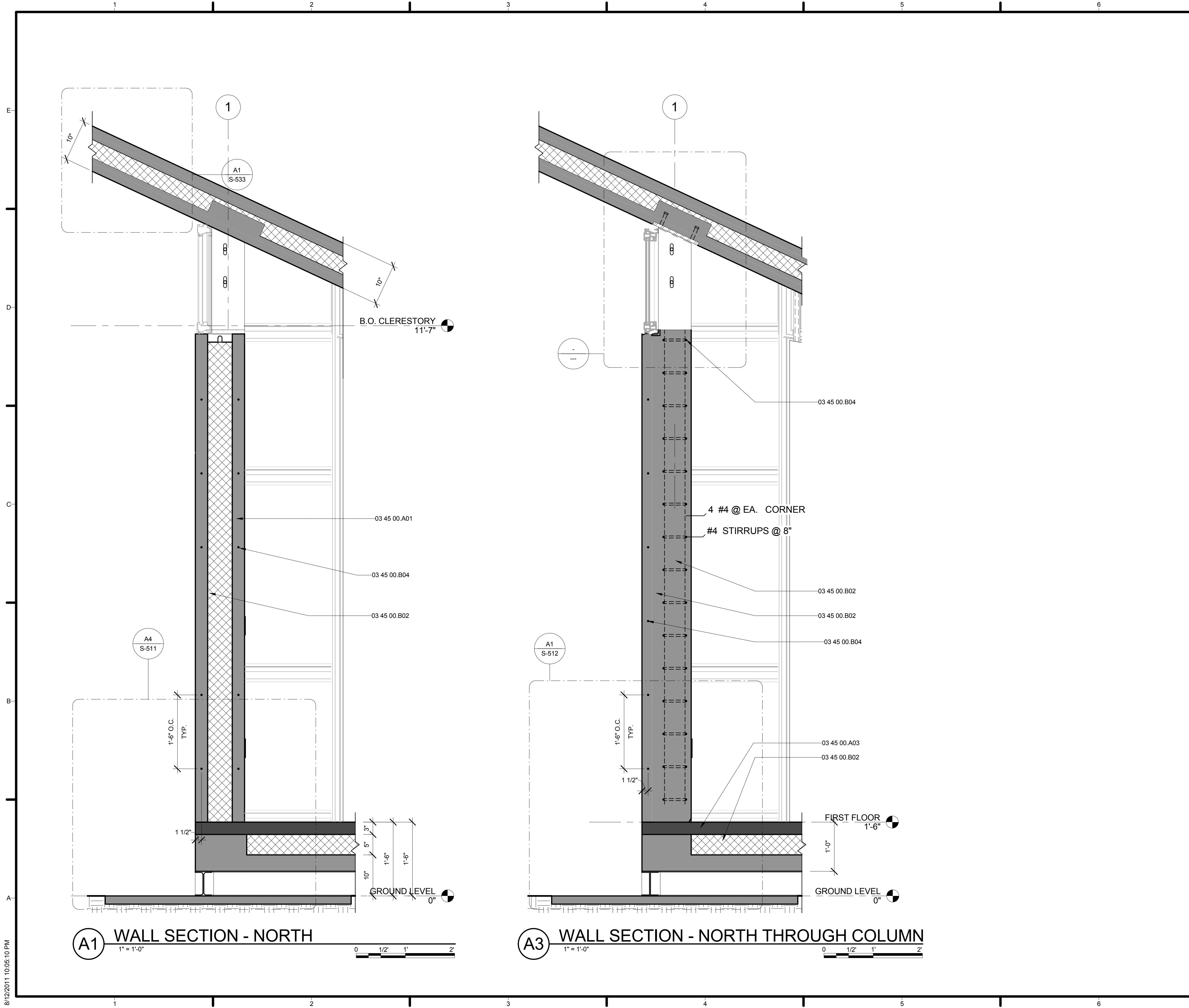
SHEET TITLE  
**ROOF PLAN WITH THICKEND WYTHE LOCATIONS**

**S-106**

**(A1) ROOF PLAN WITH THICK PANEL LOCATIONS**  
 1/4" = 1'-0"

8/12/2011 10:05:05 PM



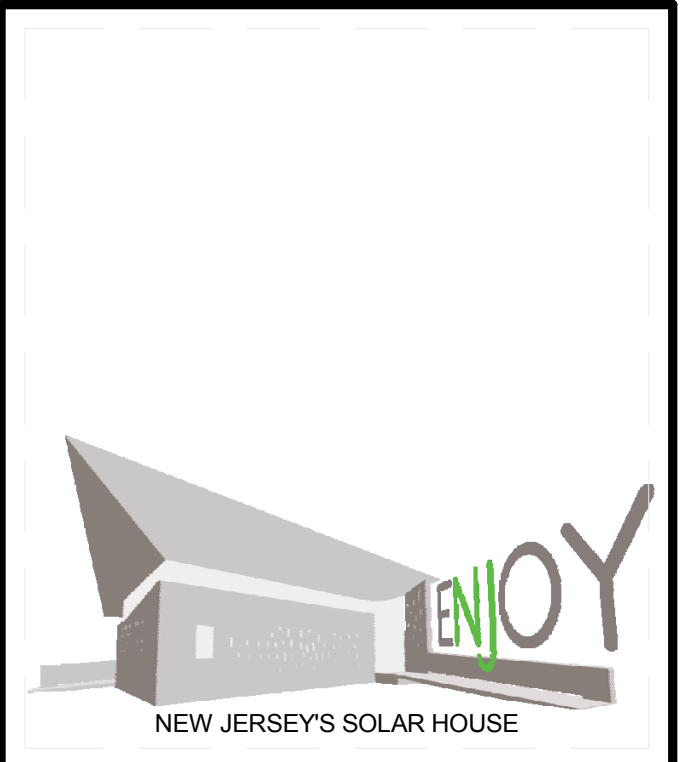


GENERAL SHEET NOTES

REFERENCE KEYNOTES

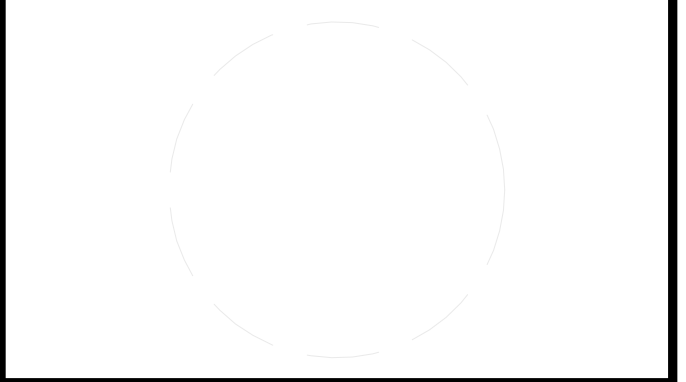
03 45 00.A01	PIP WALL ASSEMBLY
03 45 00.A02	PIP ROOF ASSEMBLY
03 45 00.A03	PIP FLOOR ASSEMBLY
03 45 00.B02	NEOPOR EPS INSULATION
03 45 00.B04	#4 STEEL REINFORCING BAR

SHEET KEYNOTES



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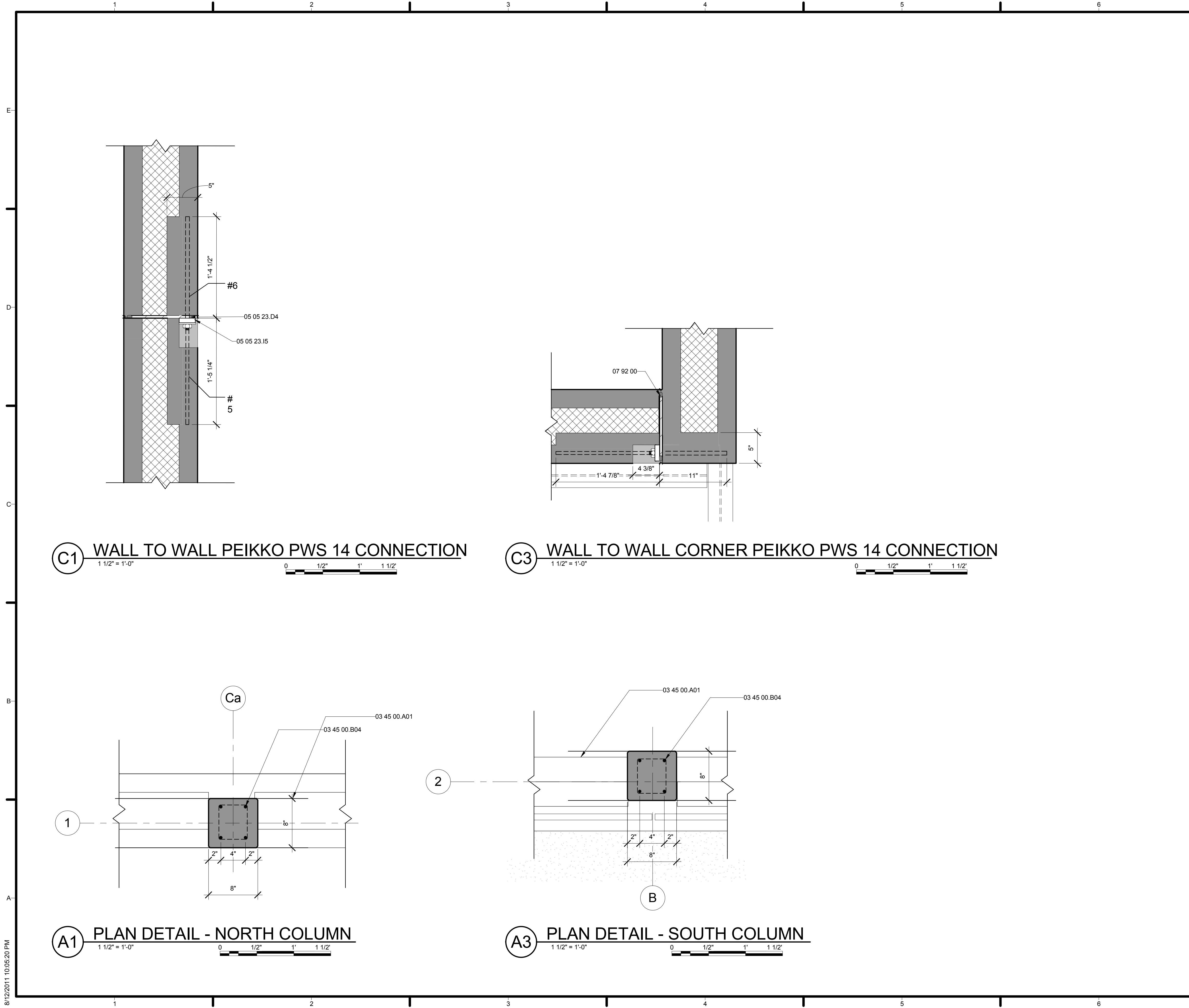
SHEET TITLE  
**STRUCTURAL SECTIONS**

**S-301**

8/12/2011 10:05:10 PM







**C1 WALL TO WALL PEIKKO PWS 14 CONNECTION**  
 1 1/2" = 1'-0"  
 0 1/2" 1' 1 1/2"

**C3 WALL TO WALL CORNER PEIKKO PWS 14 CONNECTION**  
 1 1/2" = 1'-0"  
 0 1/2" 1' 1 1/2"

**A1 PLAN DETAIL - NORTH COLUMN**  
 1 1/2" = 1'-0"  
 0 1/2" 1' 1 1/2"

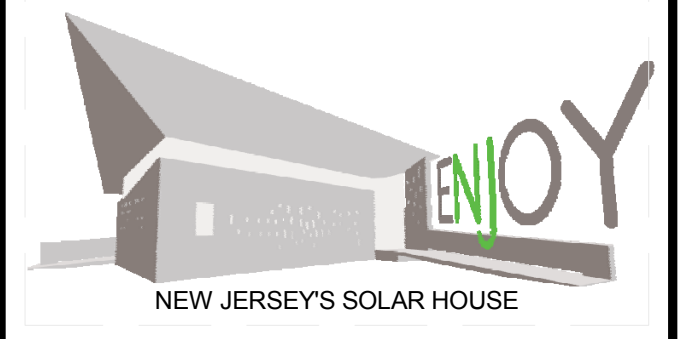
**A3 PLAN DETAIL - SOUTH COLUMN**  
 1 1/2" = 1'-0"  
 0 1/2" 1' 1 1/2"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

03 45 00.A01	PIP WALL ASSEMBLY
03 45 00.B04	#4 STEEL REINFORCING BAR
05 05 23.D4	3/4" ANCHOR BOLT
05 05 23.I5	3/4" STEEL PLATE
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS

**SHEET KEYNOTES**



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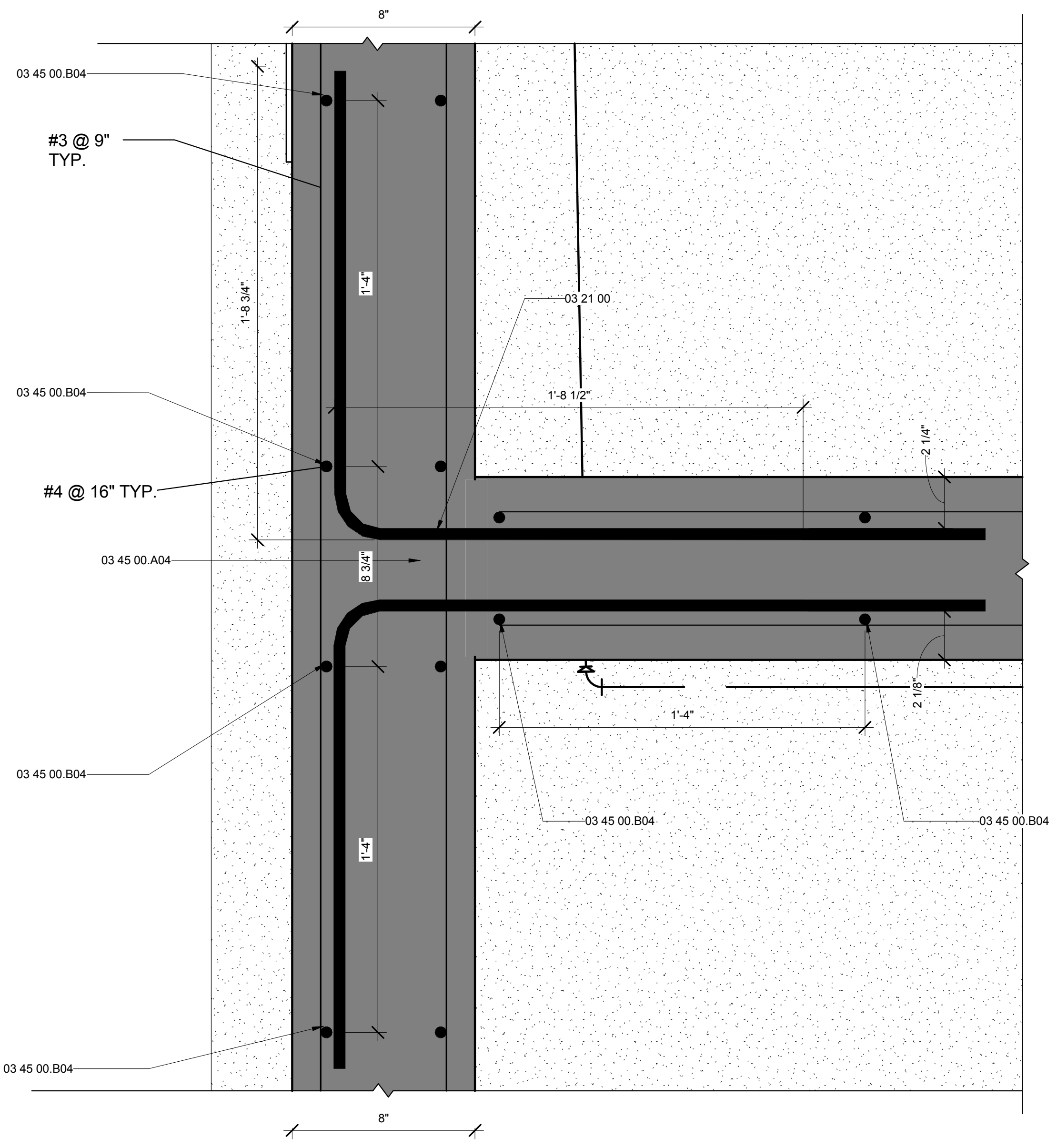
LOT NUMBER: LOT 104  
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SHEET TITLE  
**PLAN DETAILS**

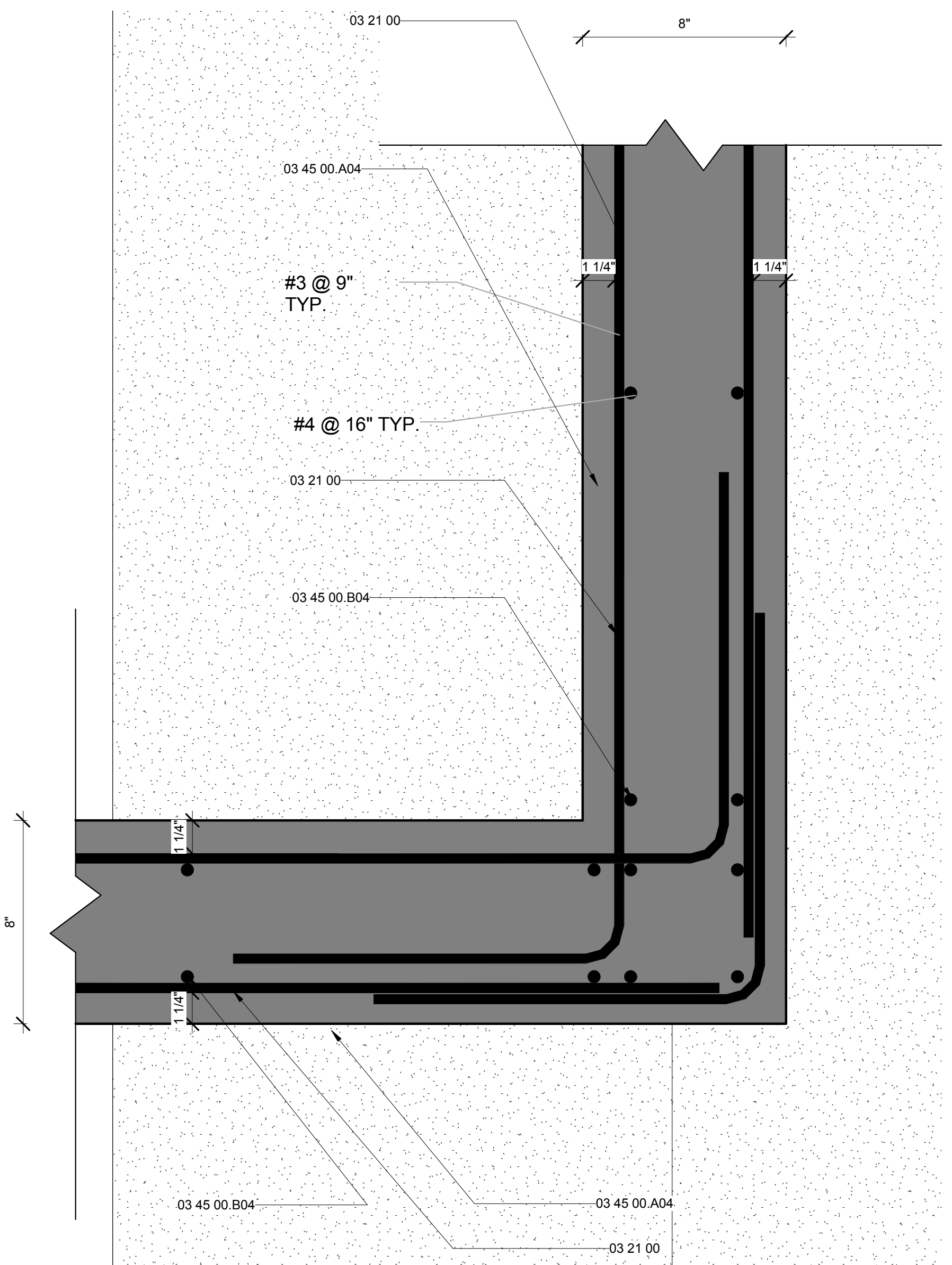
**S-501**

8/12/2011 10:05:20 PM

8/12/2011 10:05:25 PM



**A1** PLAN DETAIL - CORE WALL INTERSECTION  
3" = 1'-0"



**A4** PLAN DETAIL - CORE WALL @ CORNER  
3" = 1'-0"



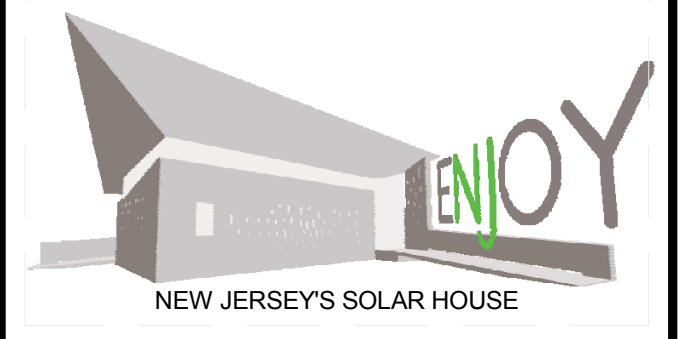
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

03 21 00	REINFORCING STEEL
03 45 00.A04	PRECAST CONCRETE COLUMN
03 45 00.B04	#4 STEEL REINFORCING BAR

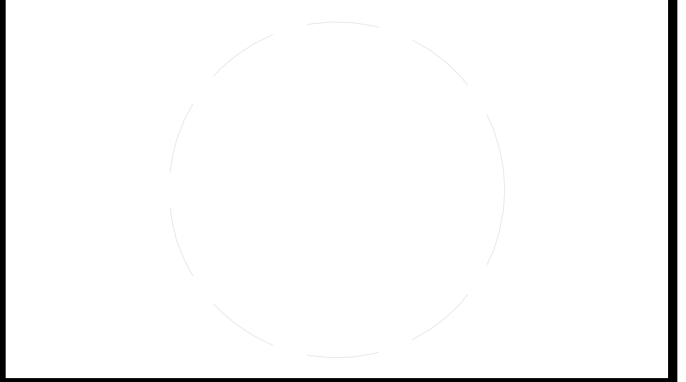
**SHEET KEYNOTES**

- ALL CORE WALL PANELS WILL HAVE THE FOLLOWING RE-INFORCEMENT:  
#4 REBAR @ 16" O.C.  
#3 REBAR @ 9" O.C.



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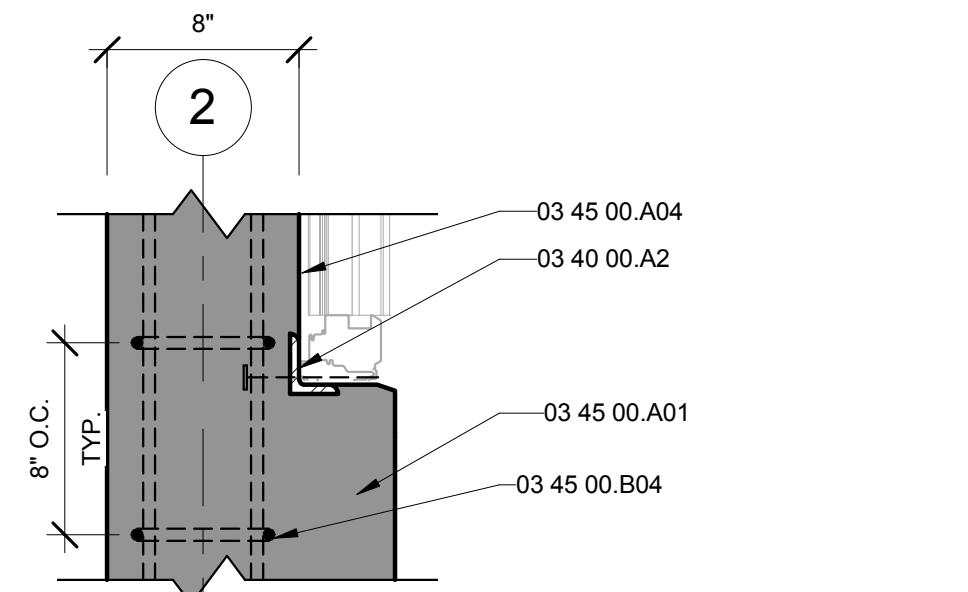
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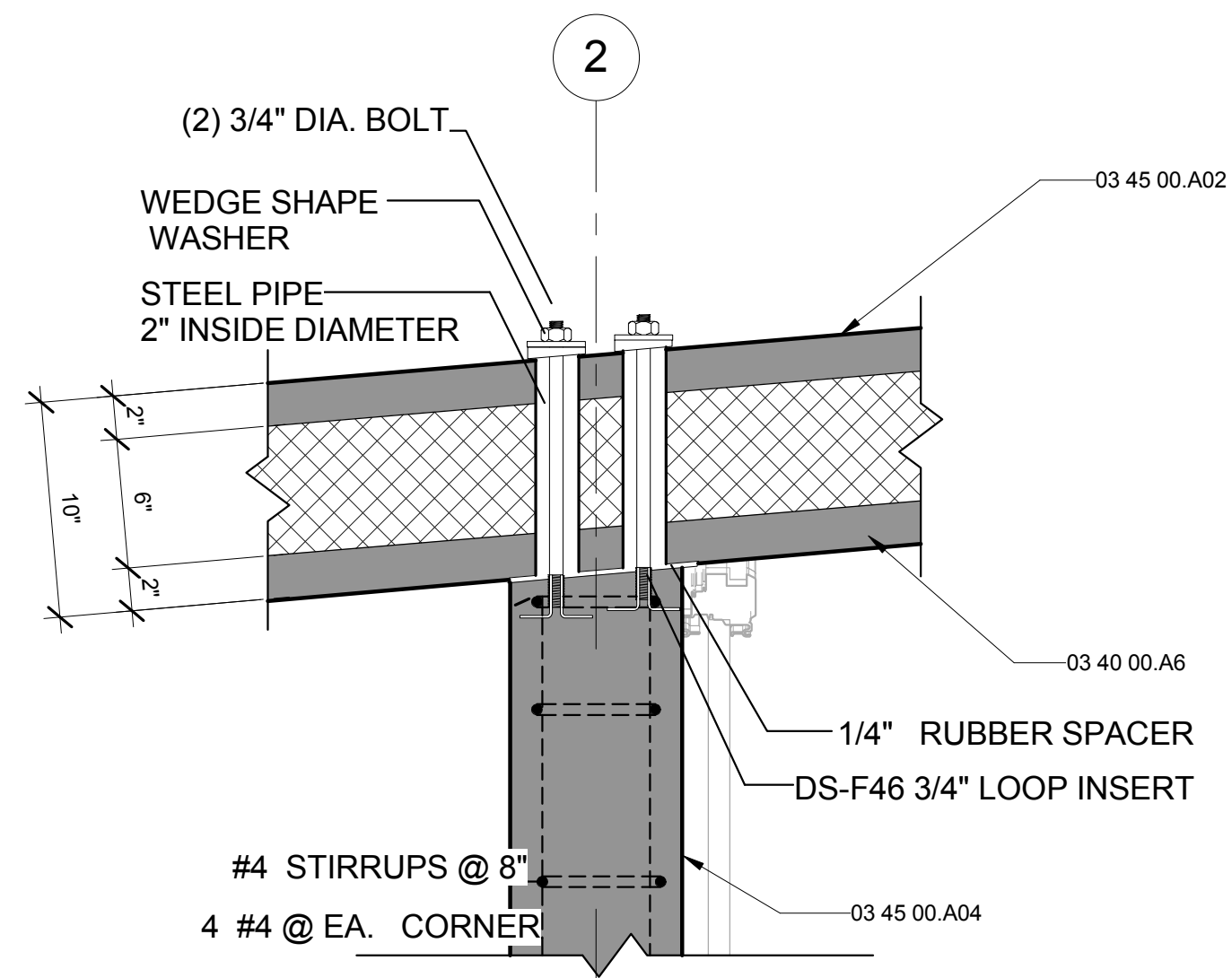
SHEET TITLE  
**PLAN DETAILS**

**S-502**

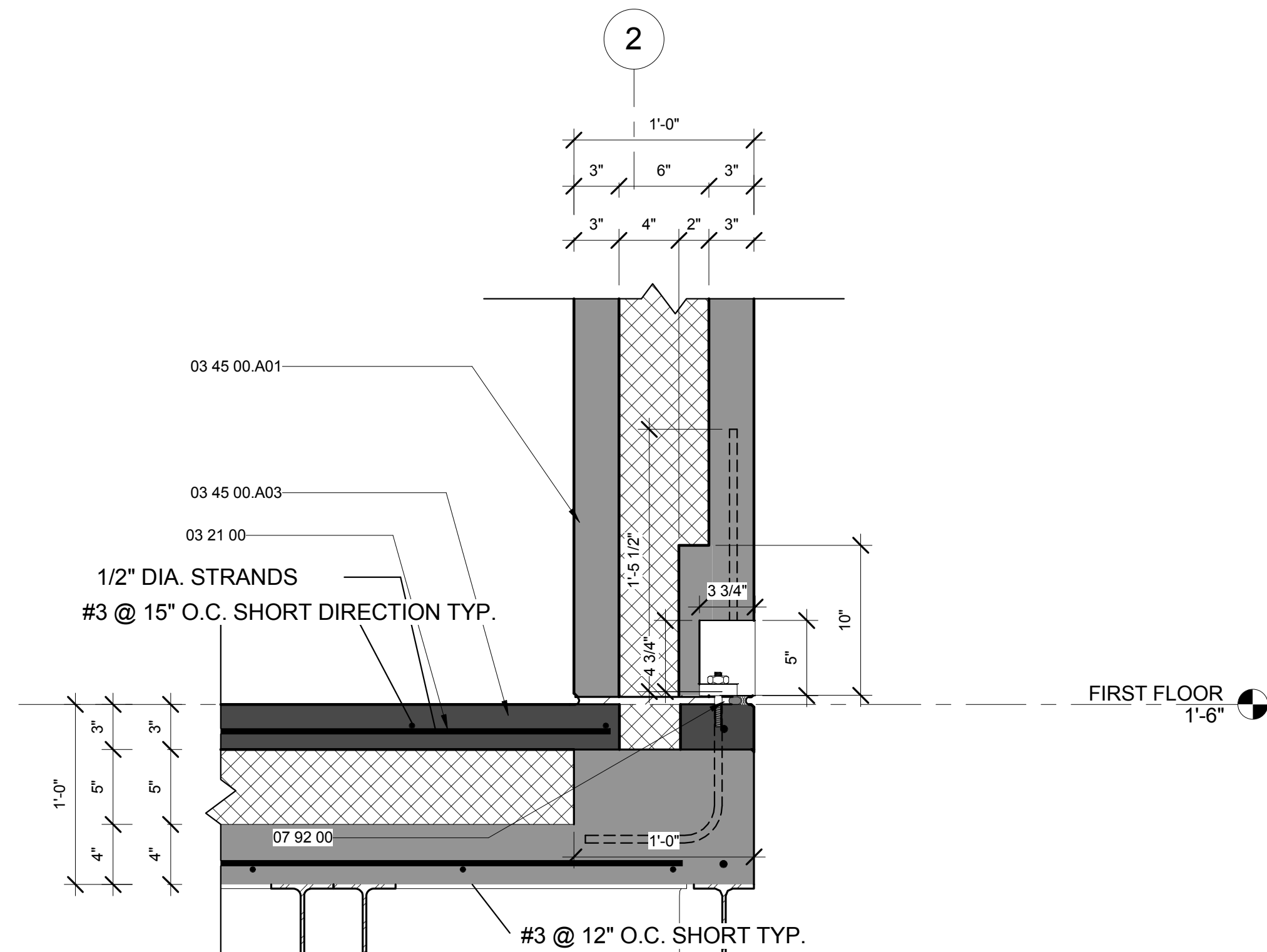




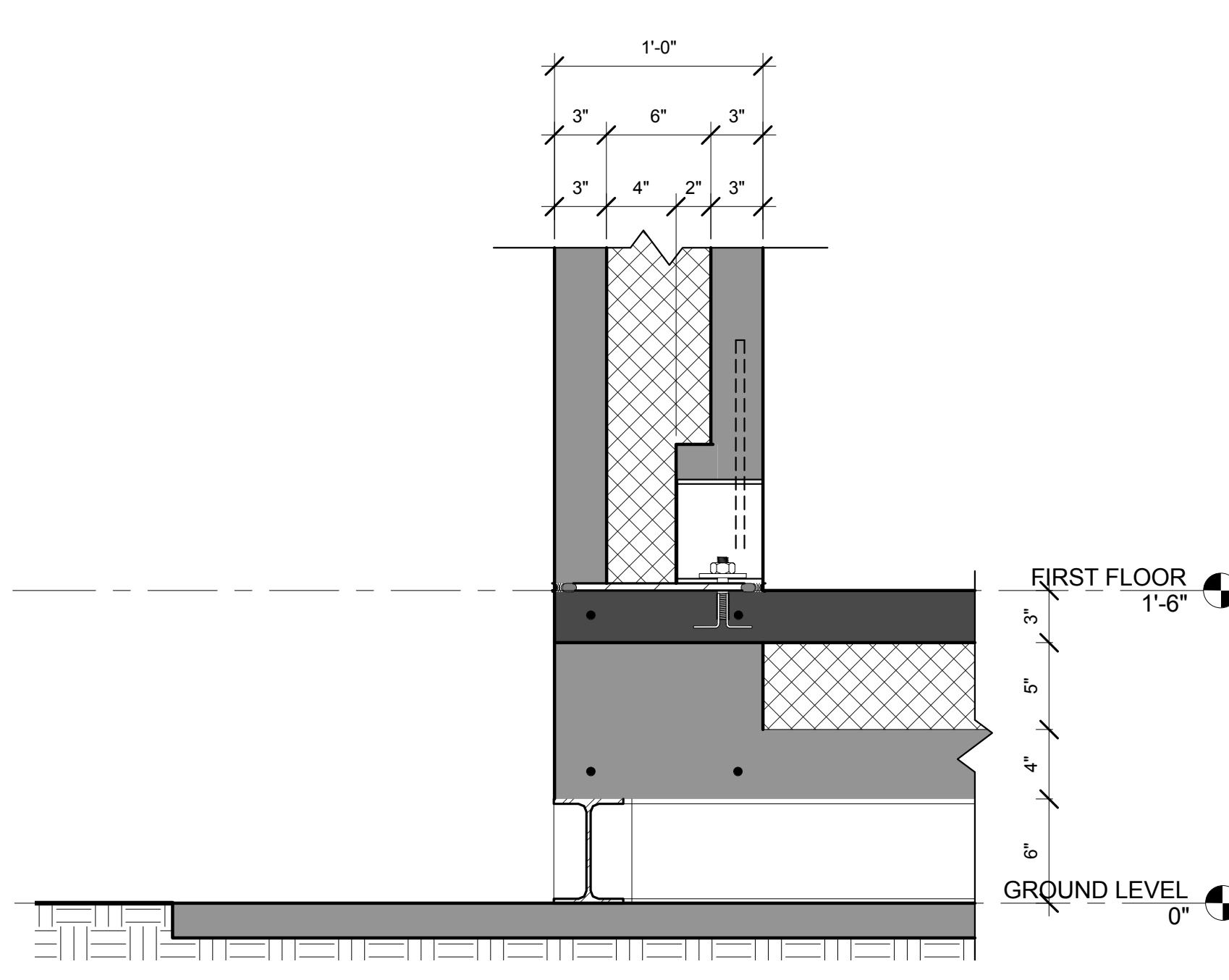
**D1** TYPICAL WALL TO COLUMN CONNECTION SOUTH  
1 1/2" = 1'-0"



**D4** TYPICAL COLUMN TO ROOF CONNECTION - SOUTH  
1 1/2" = 1'-0"



**A1** FLOOR TO WALL CONNECTION TYPICAL  
1 1/2" = 1'-0"



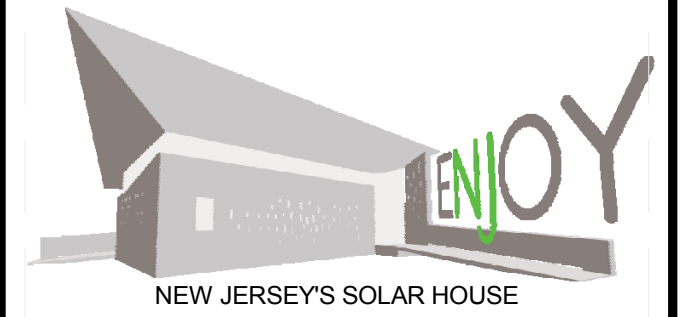
**A4** TYPICAL WALL TO FLOOR CONNECTION - PIECKO  
1 1/2" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

03 21 00	REINFORCING STEEL
03 40 00.A1	1/2" STEEL PLATE
03 40 00.A2	STEEL ANGLE
03 40 00.A6	STEEL PLATE
03 40 00.A7	3/4" COIL INSERT
03 45 00.A01	PIP WALL ASSEMBLY
03 45 00.A02	PIP ROOF ASSEMBLY
03 45 00.A03	PIP FLOOR ASSEMBLY
03 45 00.A04	PRECAST CONCRETE COLUMN
03 45 00.B04	#4 STEEL REINFORCING BAR
05 05 23.D4	3/4" ANCHOR BOLT
05 05 23.I5	3/4" STEEL PLATE
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS

SHEET KEYNOTES



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SHEET TITLE

SECTION DETAILS

S-511

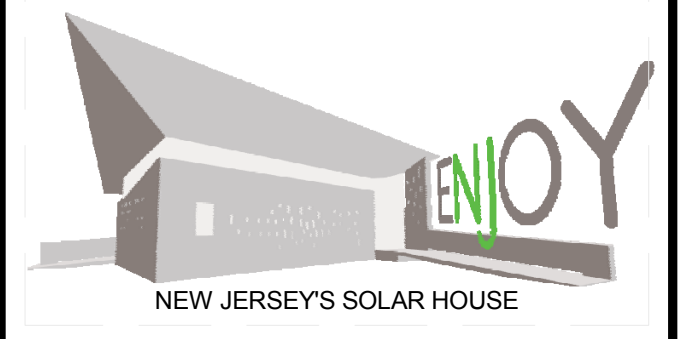
GENERAL SHEET NOTES

REFERENCE KEYNOTES

03 21 00	REINFORCING STEEL
03 40 00.A1	1/2" STEEL PLATE
03 40 00.A4	1/16" STEEL PLATE
03 45 00.A03	PIP FLOOR ASSEMBLY
03 45 00.B04	#4 STEEL REINFORCING BAR
03 45 00.B06	#3 STEEL REINFORCING BARS
05 05 23.D2	1/2" ANCHOR BOLT
05 05 23.D4	3/4" ANCHOR BOLT
05 05 23.I3	5/8" STEEL PLATE
05 12 00.A0	
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS

SHEET KEYNOTES

FLOOR REINFORCEMENT DESIGNED BY OTHERS



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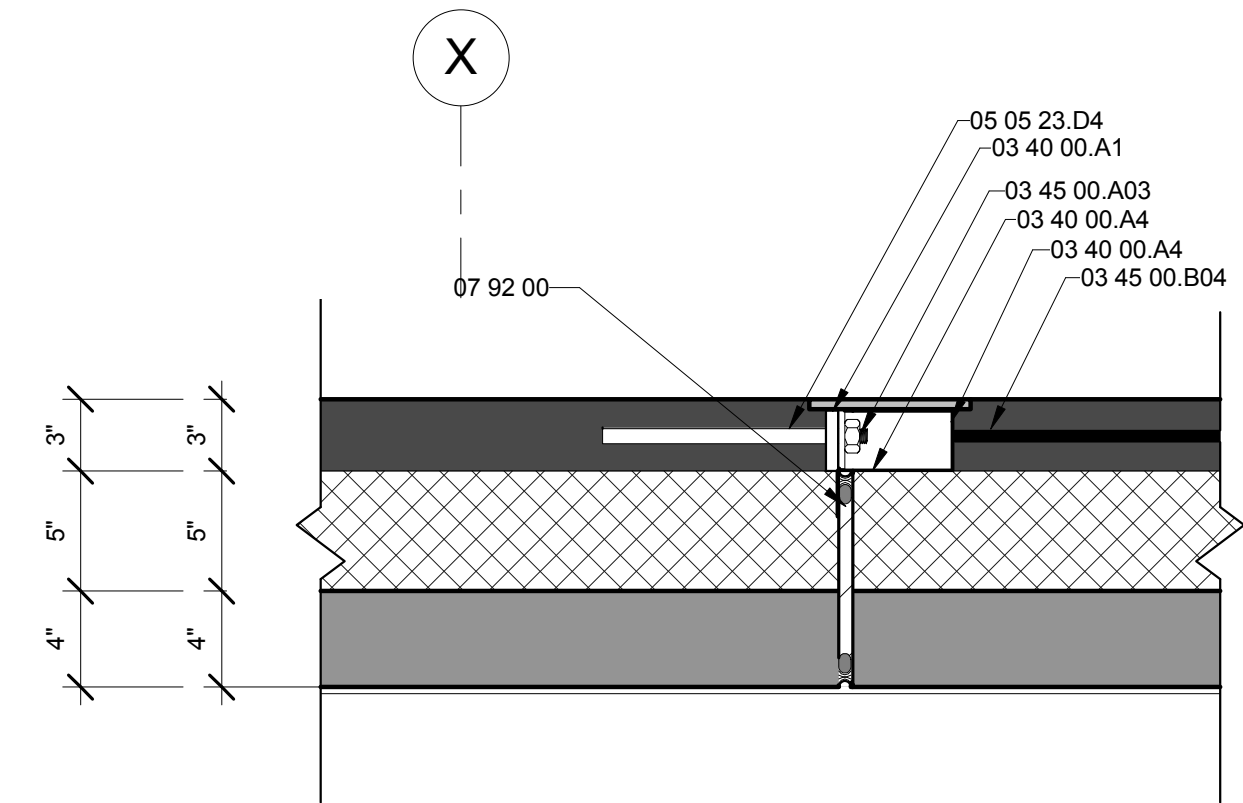
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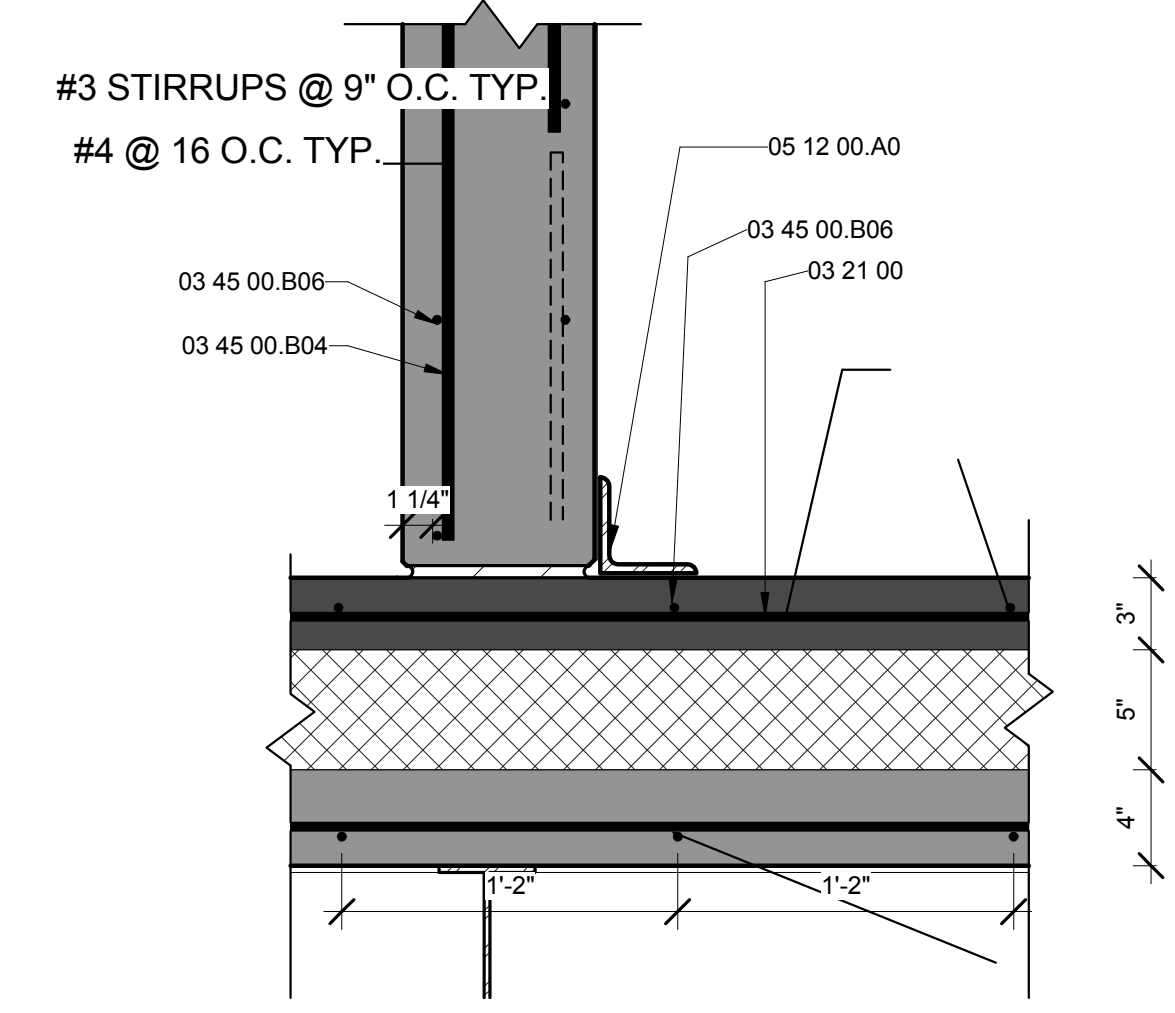
SHEET TITLE

SECTION DETAILS

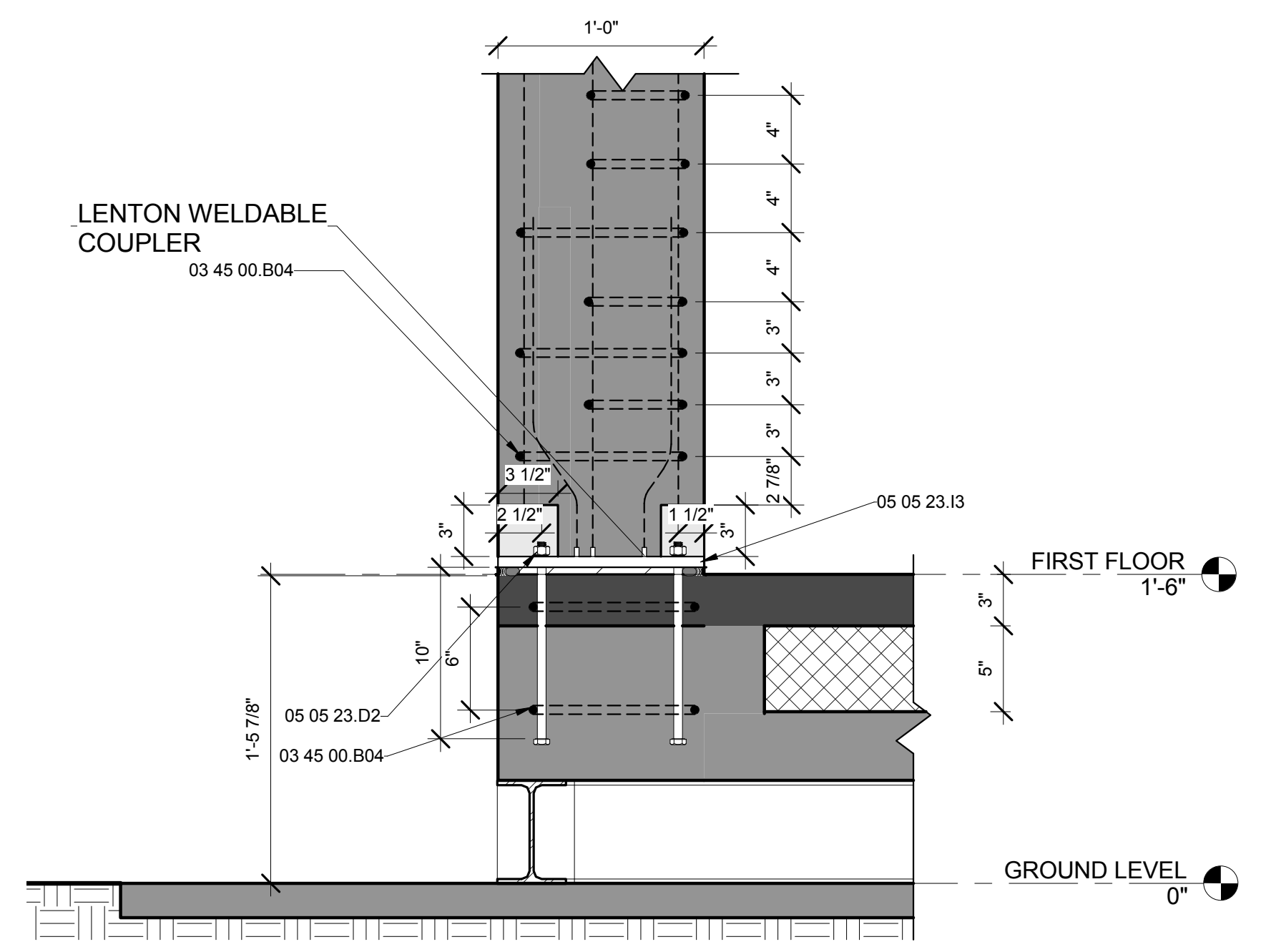
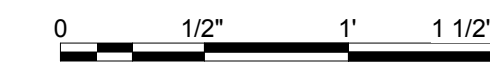
S-512



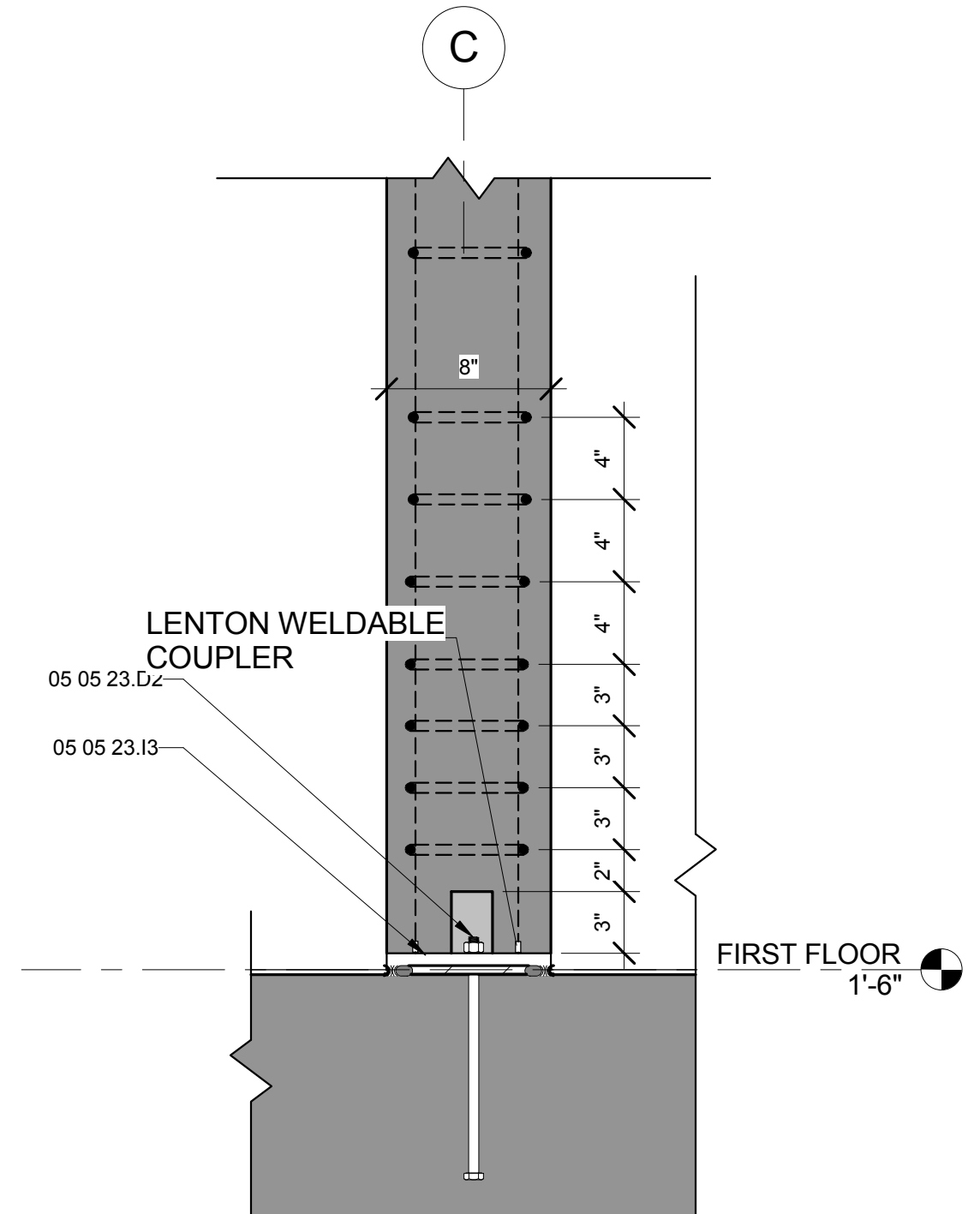
**C1** FLOOR PANEL TO FLOOR PANEL CONNECTION  
 1 1/2" = 1'-0"



**C4** FLOOR TO CORE WALL CONNECTION  
 1 1/2" = 1'-0"



**A1** TYPICAL WALL TO FLOOR CONNECTION AT COLUMN  
 1 1/2" = 1'-0"

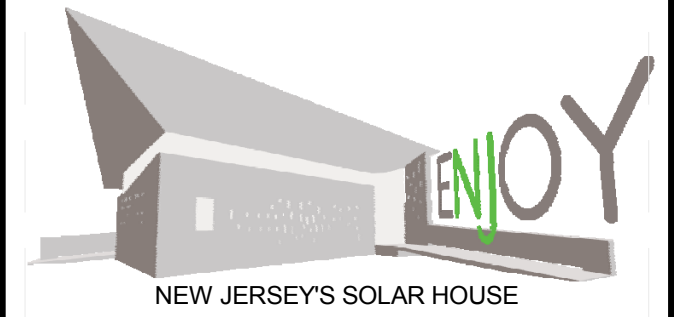


**A4** TYPICAL WALL TO FLOOR CONNECTION AT COLUMN-ELEVATION  
 1 1/2" = 1'-0"



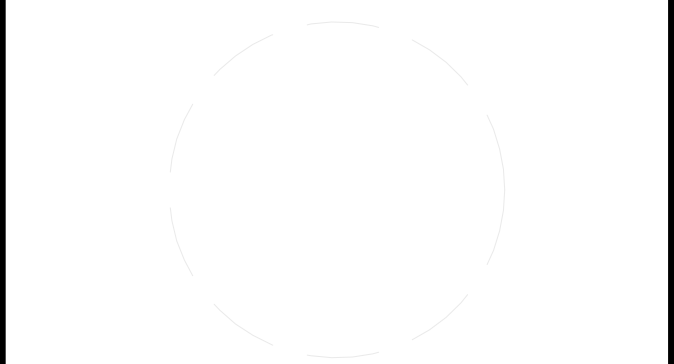
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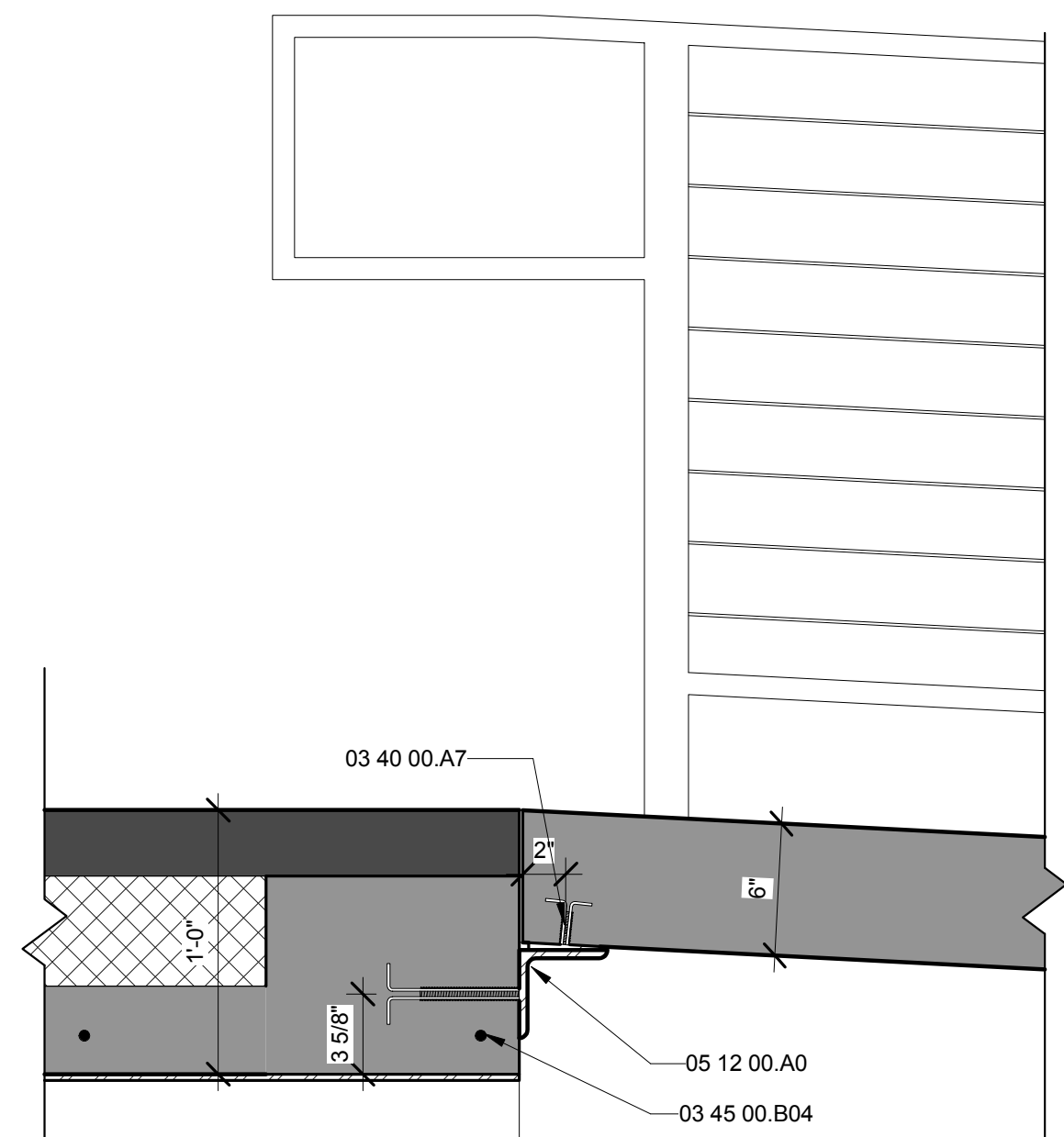


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 DRAWN BY: Author  
 CHECKED BY: Checker  
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SHEET TITLE  
**SECTION DETAILS**

**S-513**

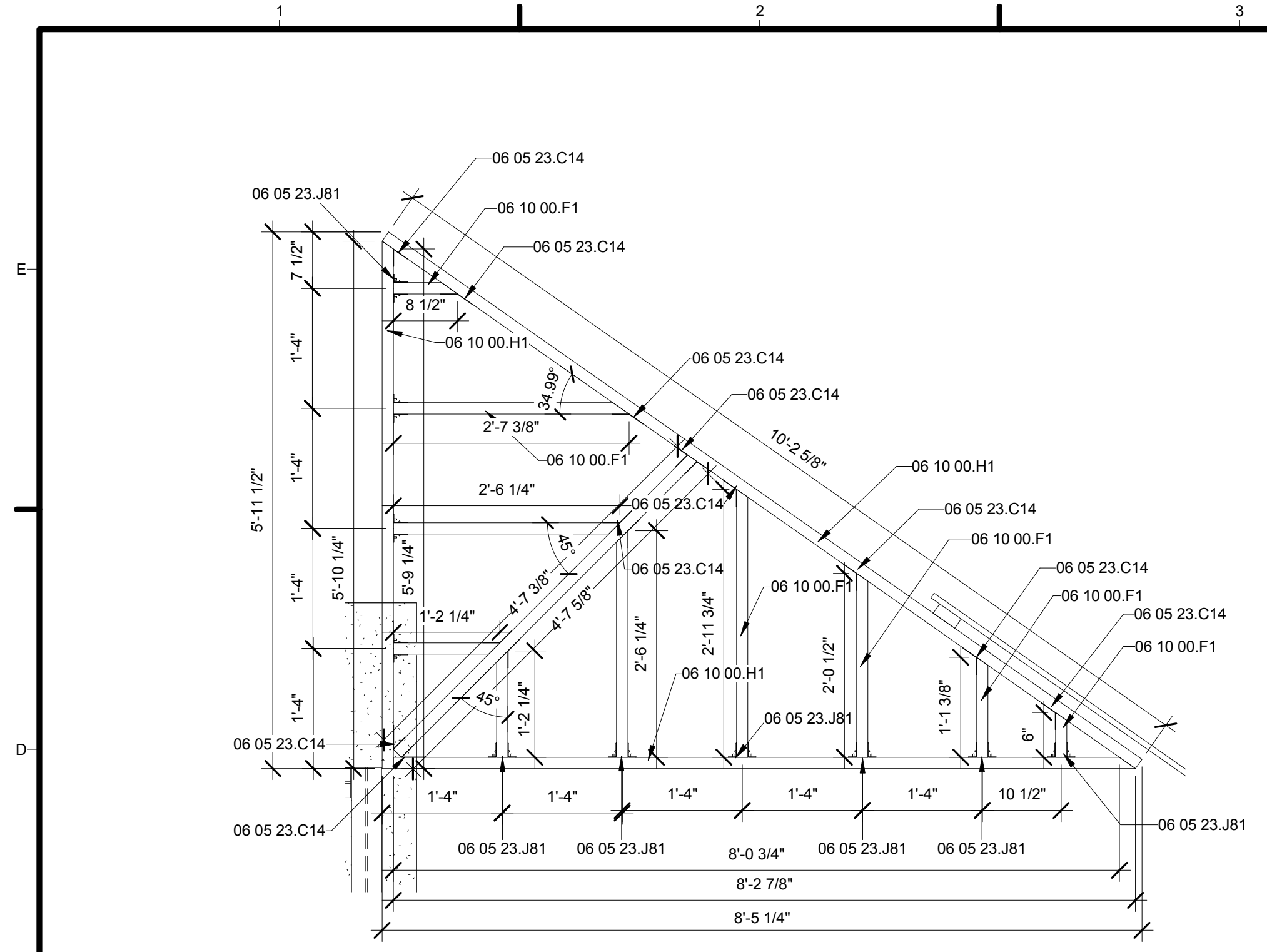


**A1 RAMP TO FLOOR DETAIL**  
 1 1/2" = 1'-0"  
 0 1/2" 1' 1 1/2"

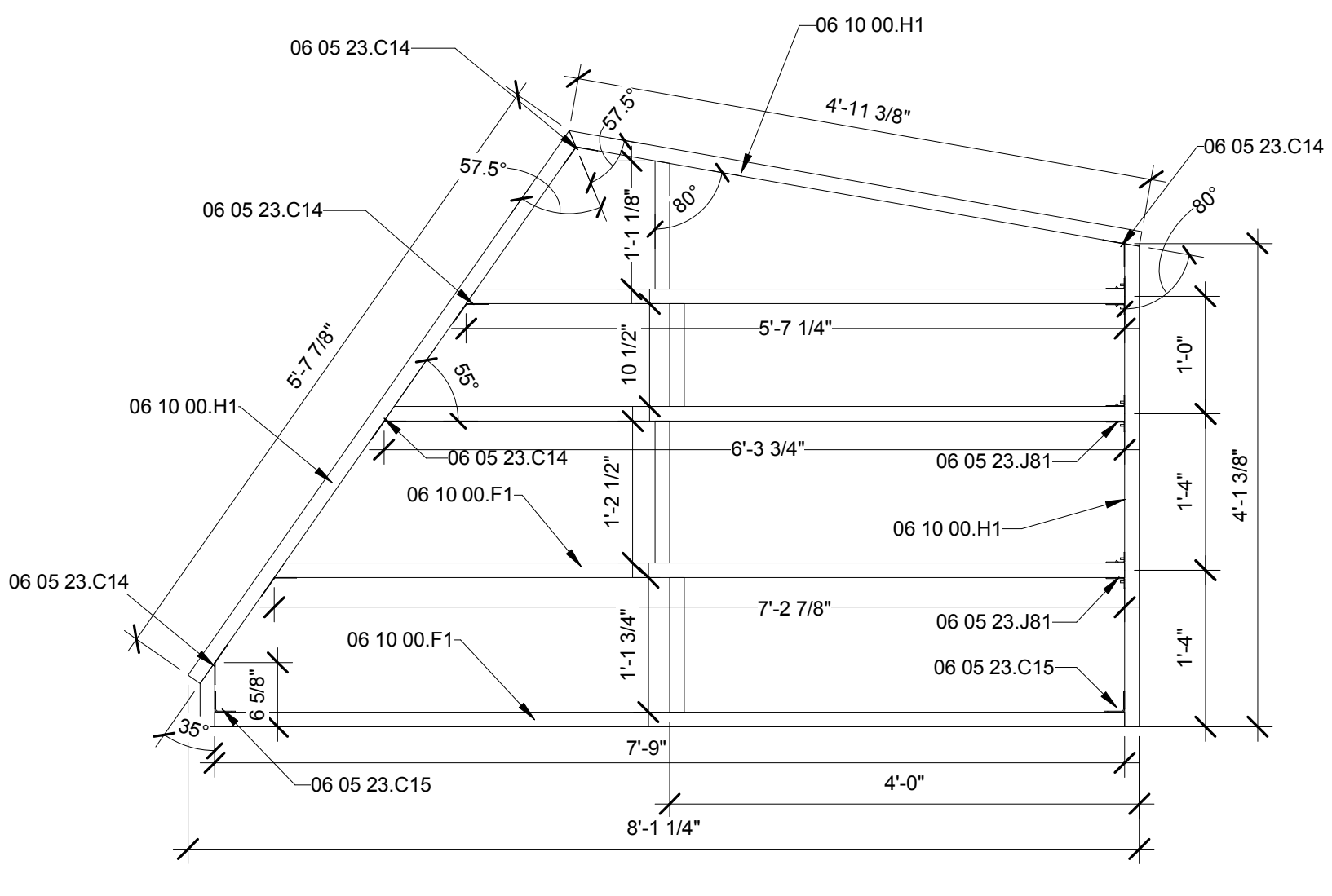




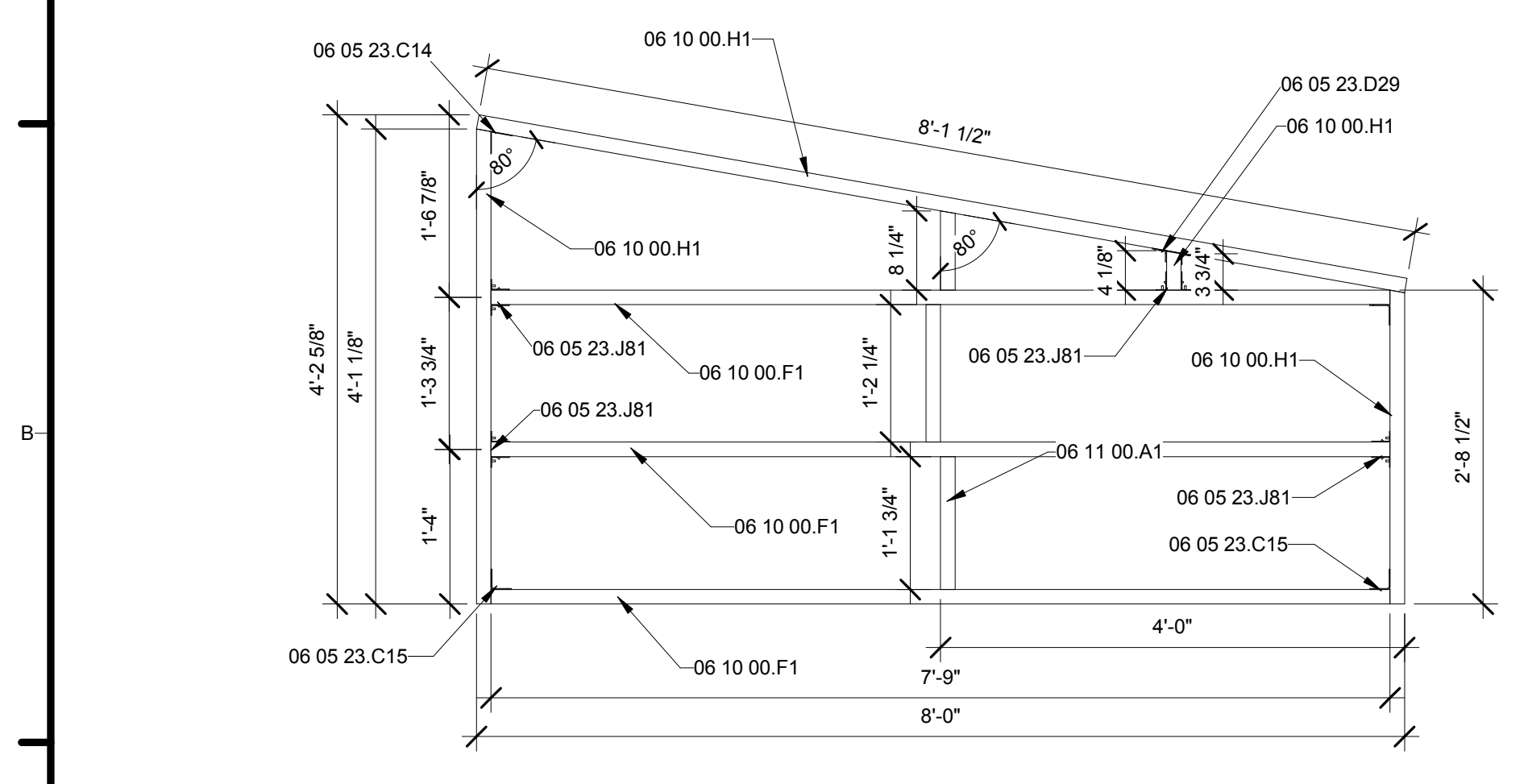




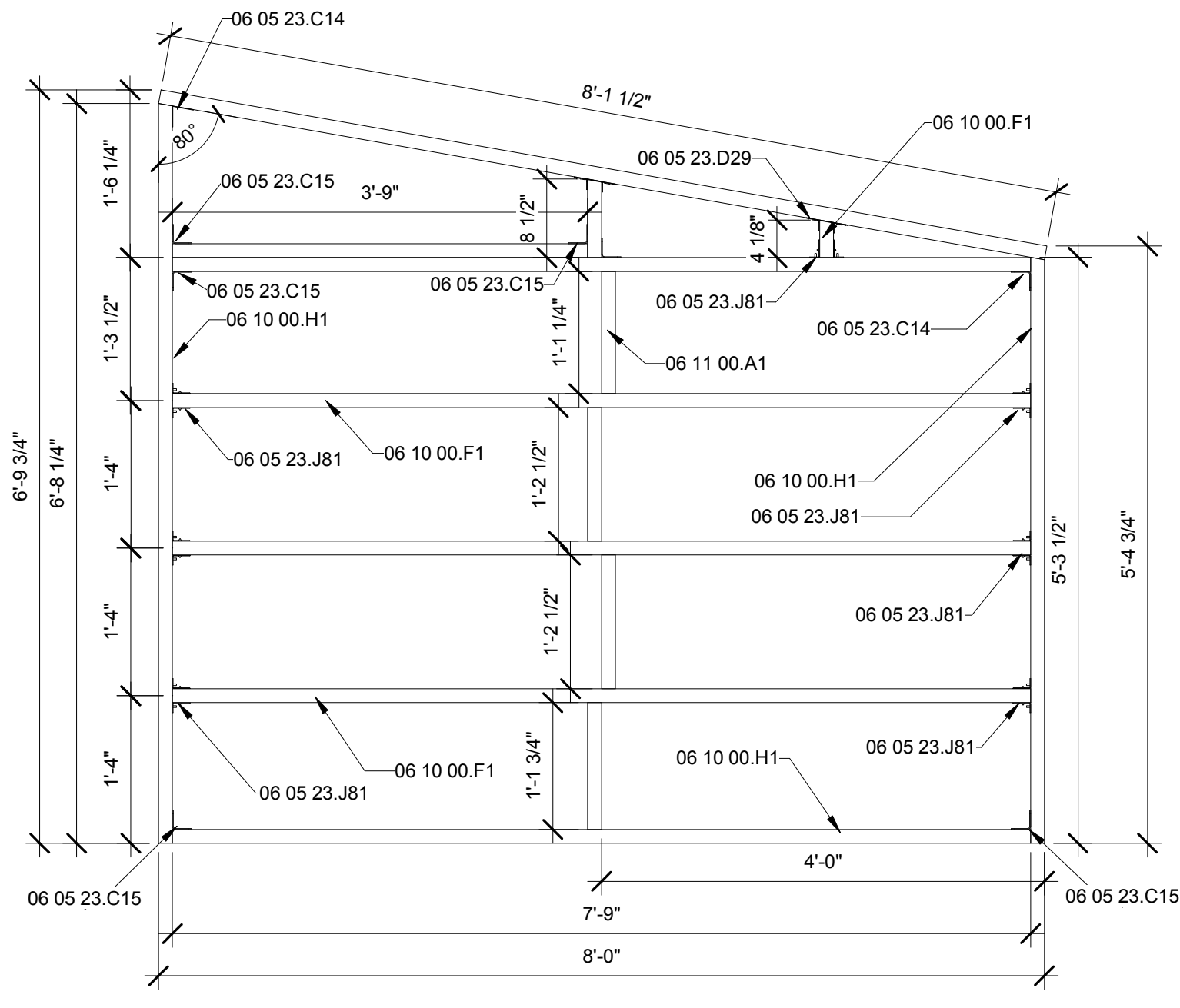
**D1 DECK MODULE - TYPE 11**  
 3/4" = 1'-0"  
 0 1' 2' 3'



**D4 DECK MODULE - TYPE 12**  
 3/4" = 1'-0"  
 0 1' 2' 3'



**A1 DECK MODULE - TYPE 13**  
 3/4" = 1'-0"  
 0 1' 2' 3'



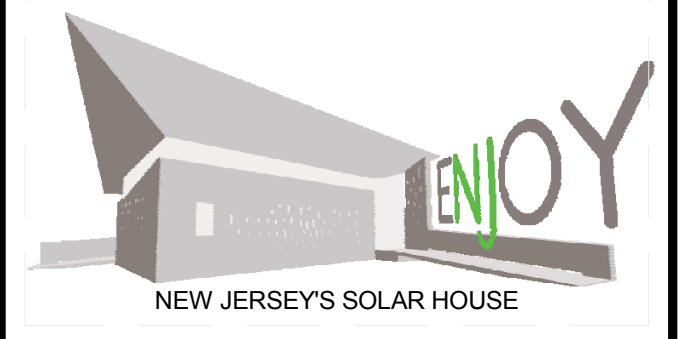
**A4 DECK MODULE - TYPE 14**  
 3/4" = 1'-0"  
 0 1' 2' 3'

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

06 05 23.C14	LS50 ANGLE
06 05 23.C15	ML24Z ANGLE
06 05 23.D29	LSU26 HANGER
06 05 23.J81	LUS28 HANGER
06 10 00.F1	2X6
06 10 00.H1	2X10
06 11 00.A1	BLOCKING

**SHEET KEYNOTES**



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	PETRA SOLAR (732) 379-5566
	SKANSKA (201) 576-0138

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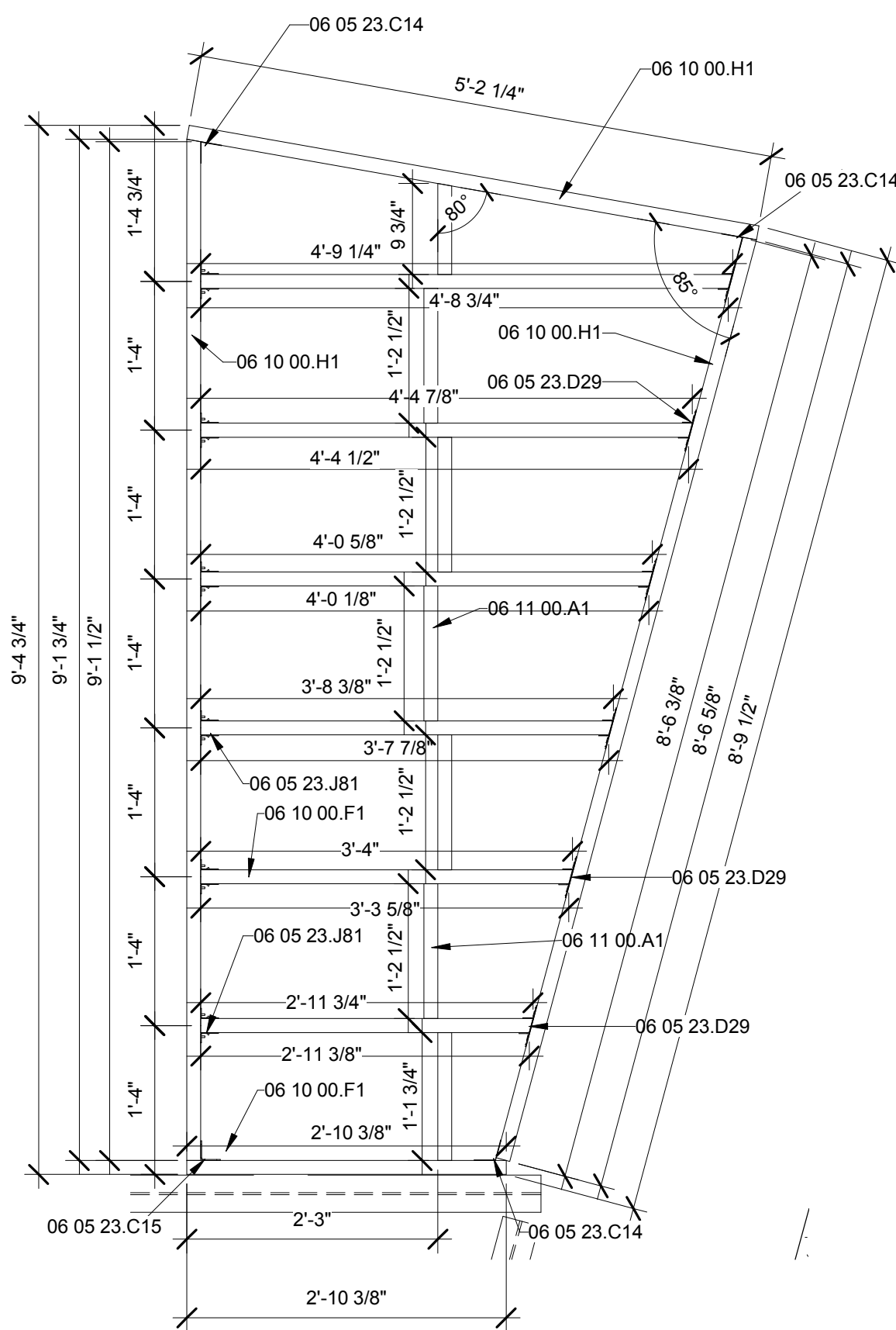
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SHEET TITLE

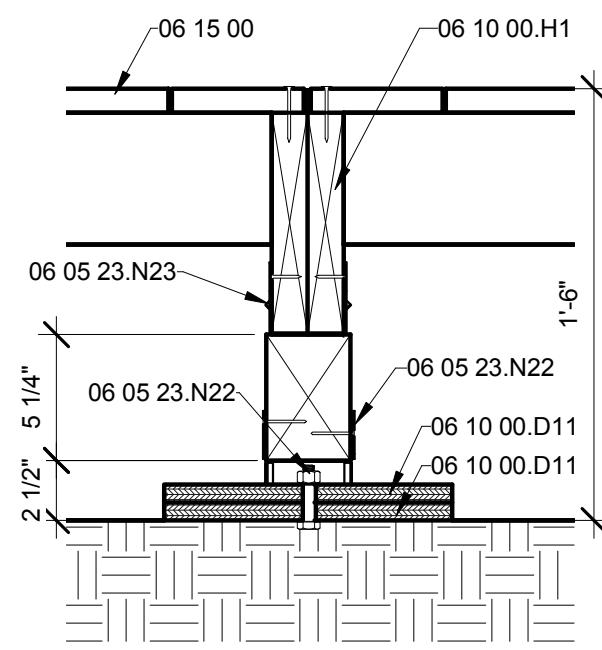
DECK DETAILS

**S-523**

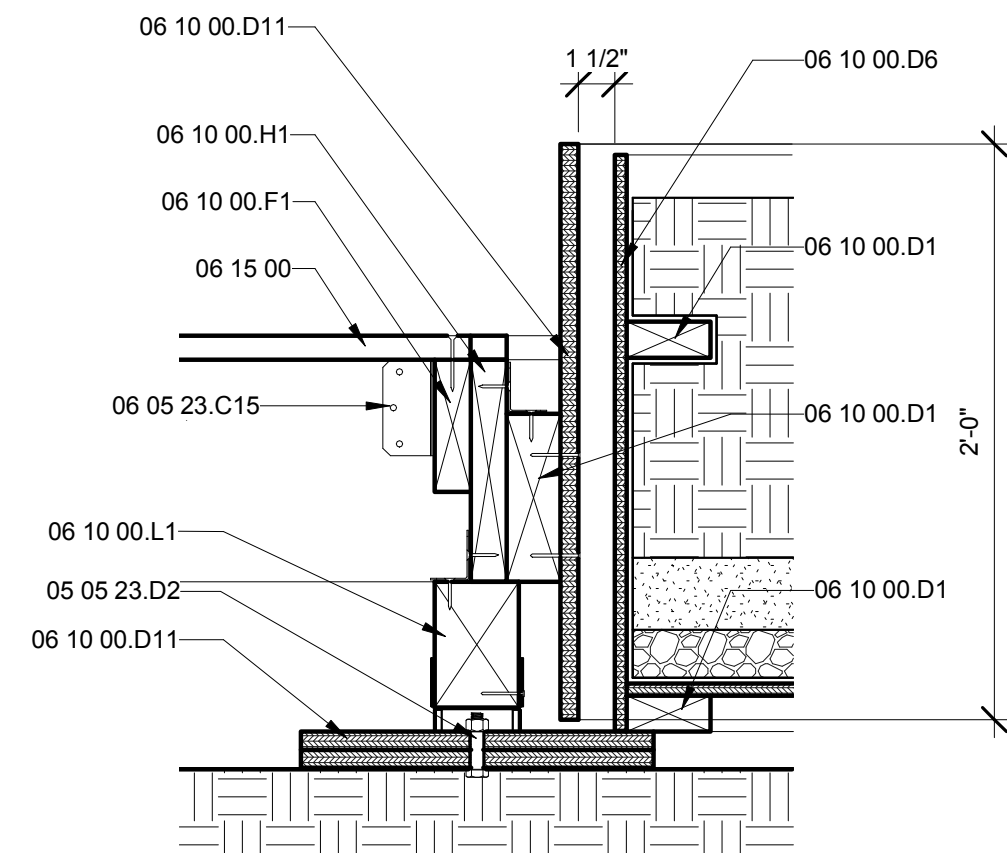




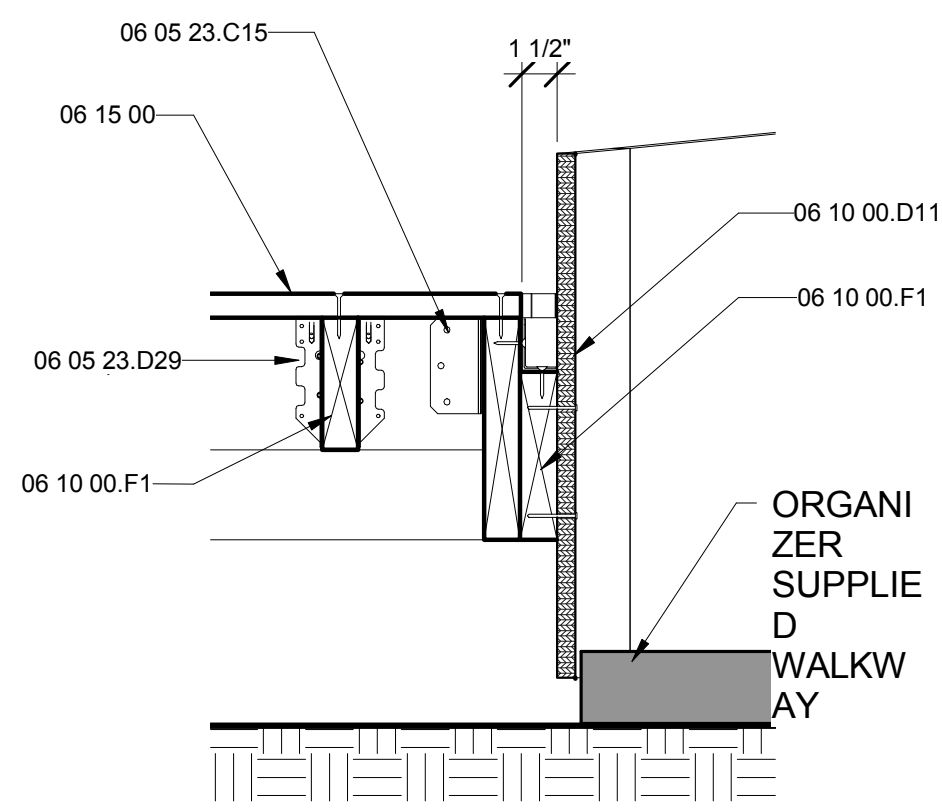
**C1** DECK MODULE - TYPE 15  
3/4" = 1'-0"  
0 1' 2' 3'



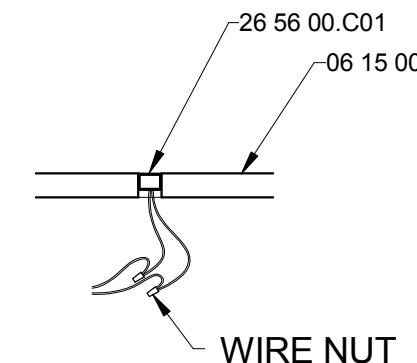
**C3** DECK FOOTING SECTION TYP.  
1 1/2" = 1'-0"  
0 1/2' 1' 1 1/2'



**A1** DECK DETAIL SECTION 1  
1 1/2" = 1'-0"  
0 1/2' 1' 1 1/2'



**A3** DECK DETAIL SECTION 2  
1 1/2" = 1'-0"  
0 1/2' 1' 1 1/2'



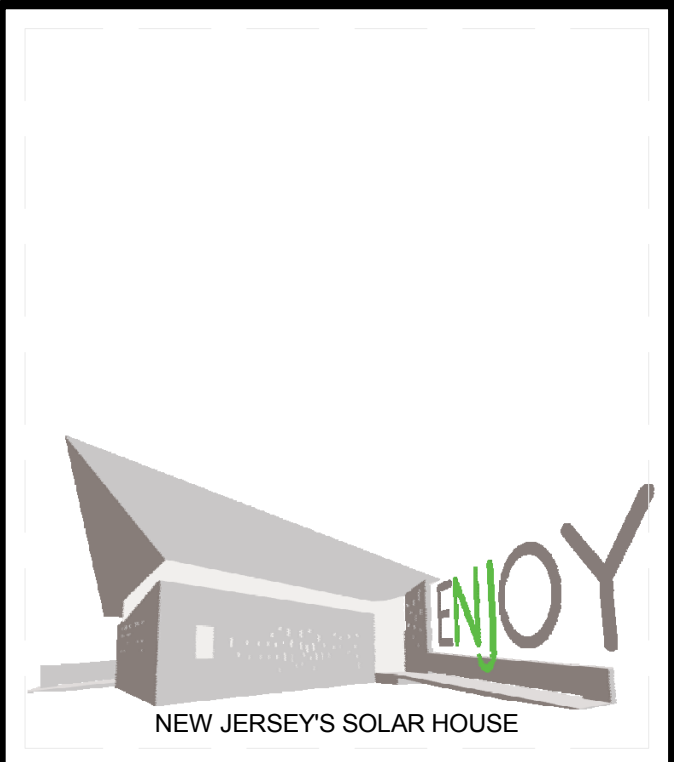
**5A** DECK DOT SECTION DETAIL  
1 1/2" = 1'-0"  
0 1/2' 1' 1 1/2'

GENERAL SHEET NOTES

REFERENCE KEYNOTES

05 05 23.D2	1/2" ANCHOR BOLT
06 05 23.C14	LS50 ANGLE
06 05 23.C15	ML24Z ANGLE
06 05 23.D29	LSU26 HANGER
06 05 23.J81	LSU28 HANGER
06 05 23.N22	ABA44 POST BASE
06 05 23.N23	BCS 2-2/4 POST CAP
06 10 00.D1	2X4
06 10 00.D6	1/2" PLYWOOD
06 10 00.D11	3/4" PLYWOOD
06 10 00.F1	2X6
06 10 00.H1	2X10
06 10 00.L1	4X4
06 11 00.A1	BLOCKING
06 15 00	WOOD DECKING
26 56 00.C01	DEKOR DEK DOT EXTERIOR RECESSED LED LIGHT

SHEET KEYNOTES



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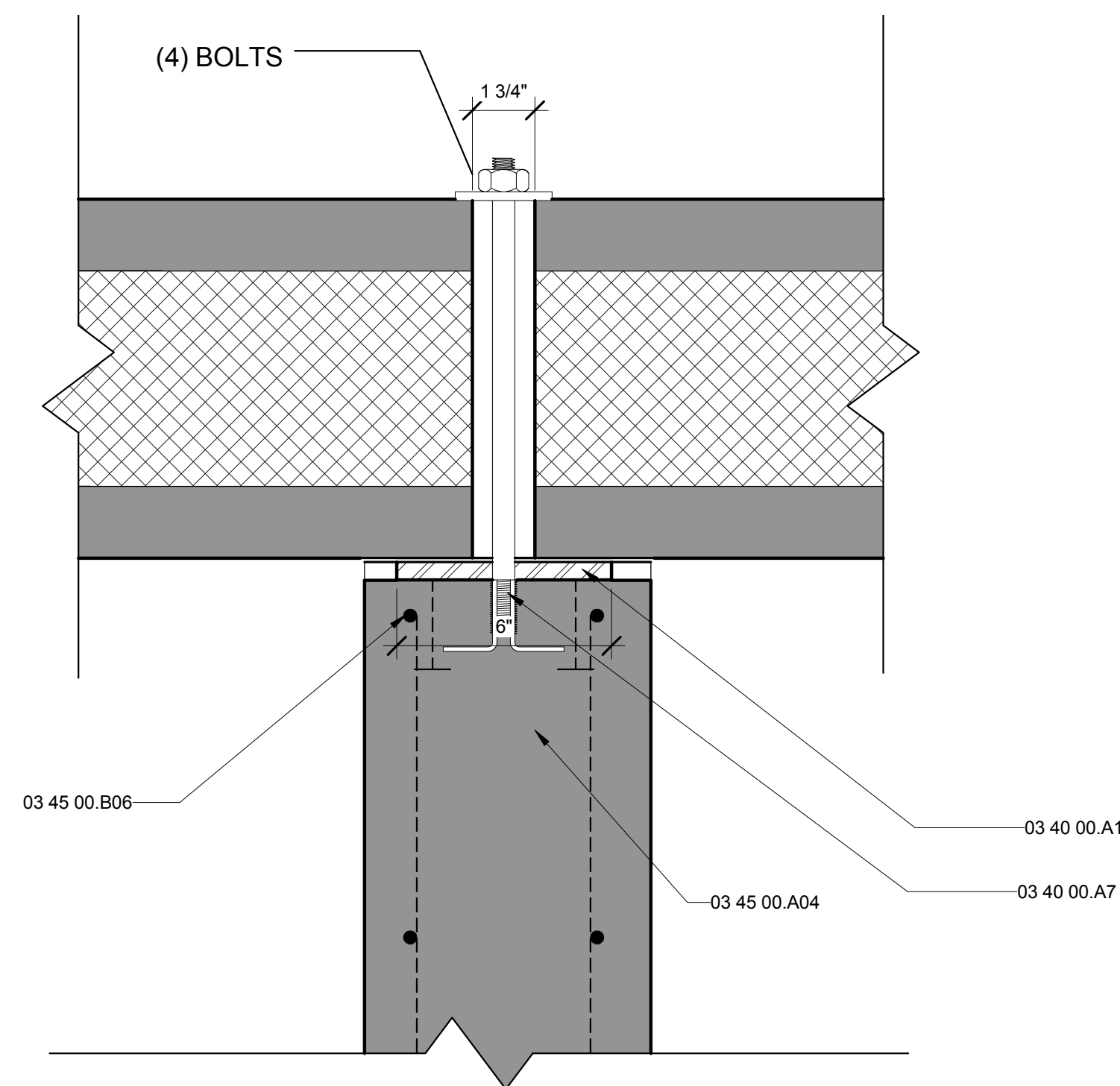
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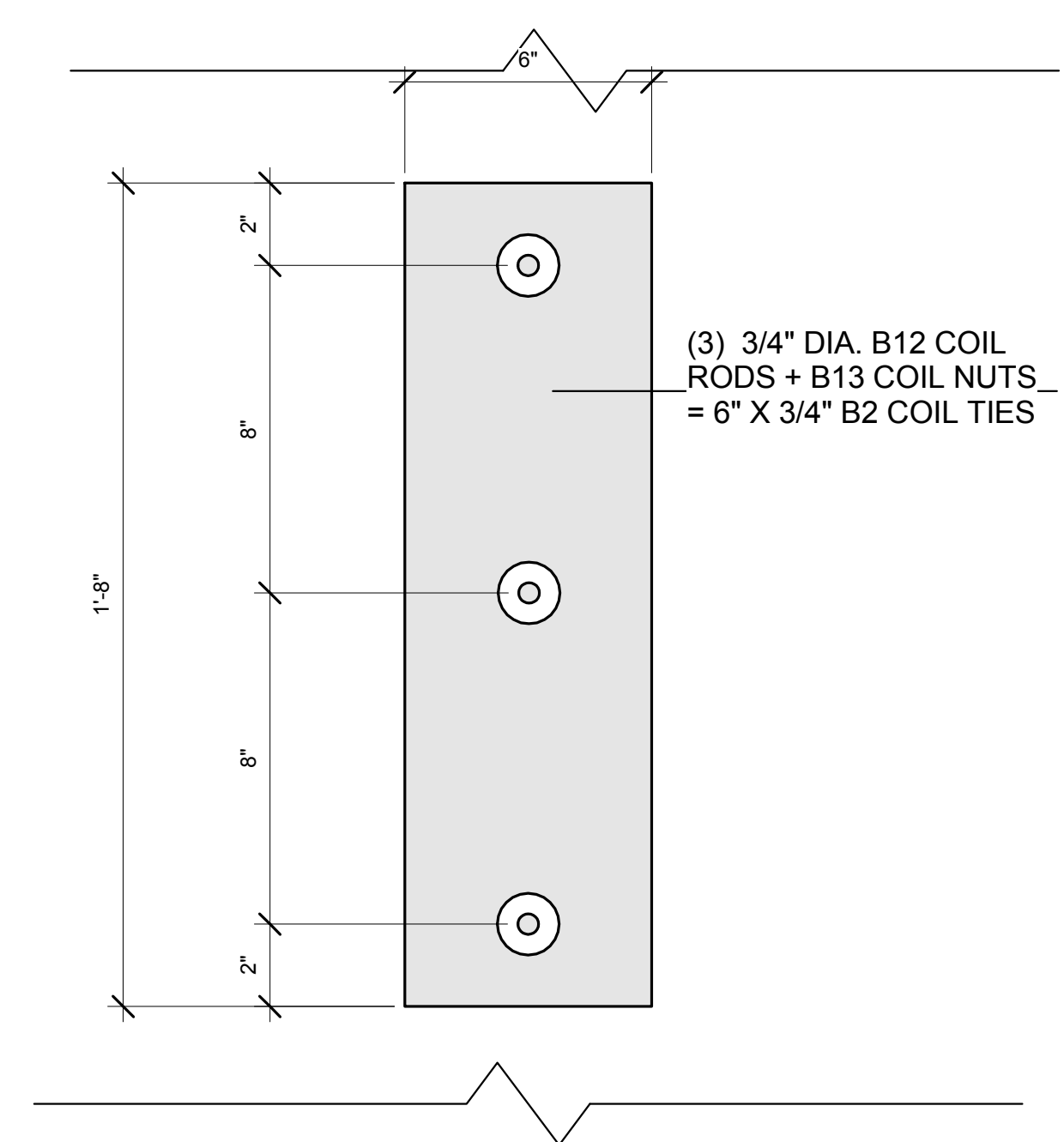
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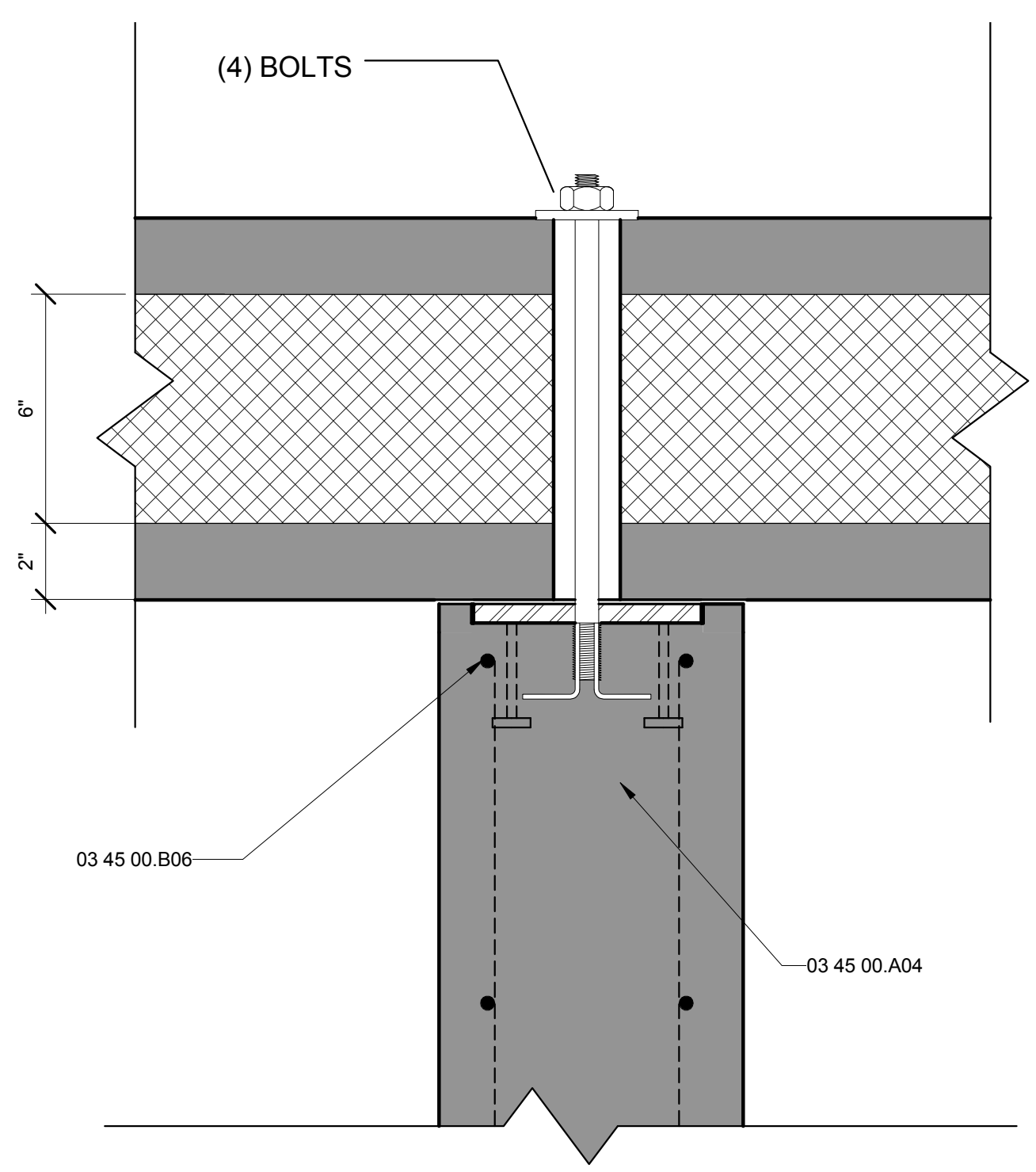
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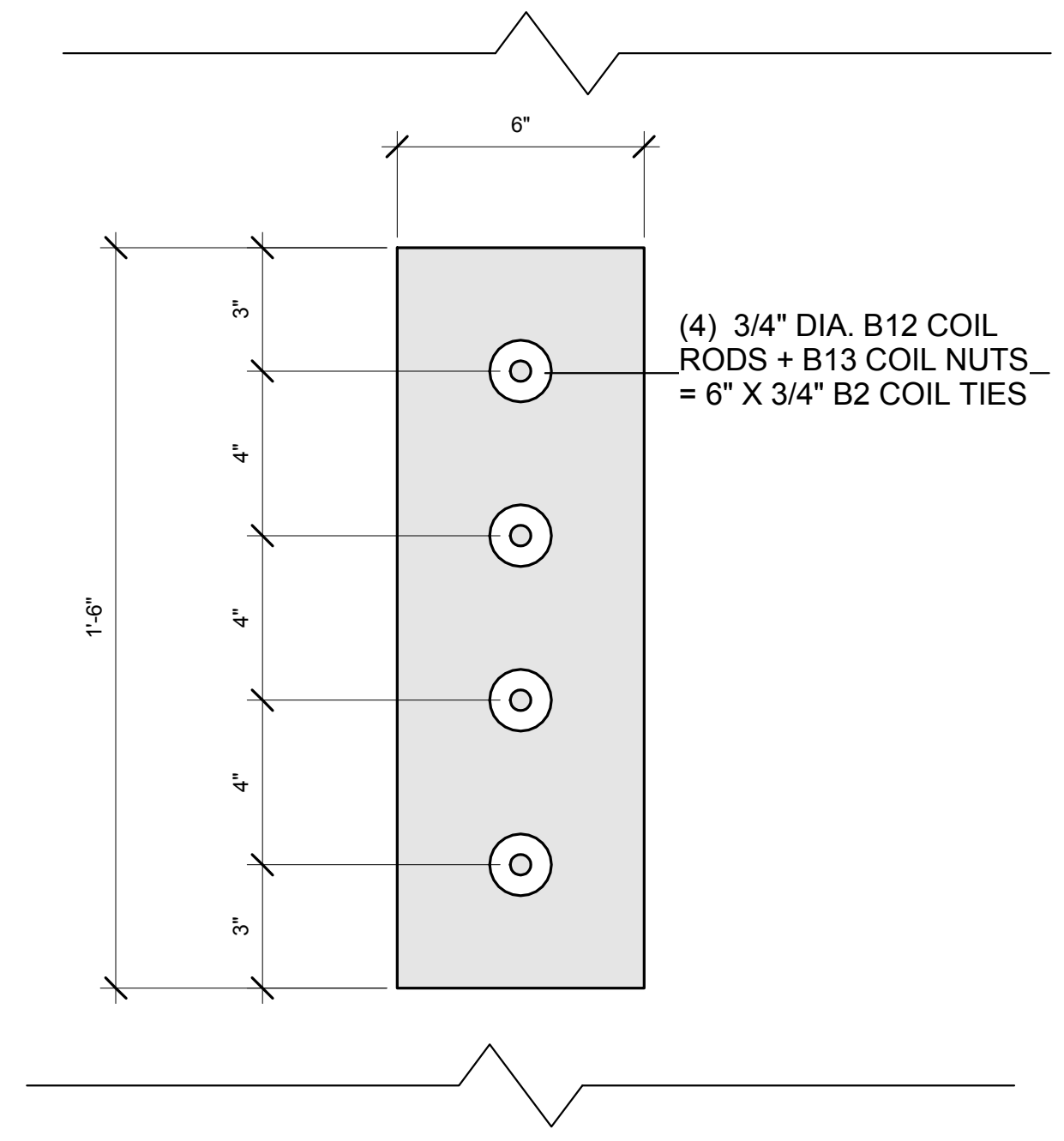
**D1** ROOF PANEL TO CORE CONNECTION 2  
3" = 1'-0" 0 3" 6" 1"



**D4** PLAN DETAIL- ROOF PANEL TO CORE CONNECTION 2  
3" = 1'-0" 0 3" 6" 1"



**A1** ROOF PANEL TO CORE CONNECTION 1  
3" = 1'-0" 0 3" 6" 1"



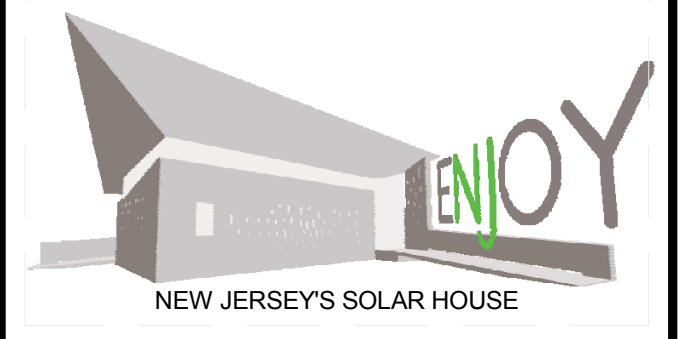
**A4** PLAN DETAIL- ROOF PANEL TO CORE CONNECTION 1  
3" = 1'-0" 0 3" 6" 1"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

03 40 00.A1	1/2" STEEL PLATE
03 40 00.A3	1 1/2" ANCHOR BOLT
03 40 00.A7	3/4" COIL INSERT
03 45 00.A04	PRECAST CONCRETE COLUMN
03 45 00.B04	#4 STEEL REINFORCING BAR
03 45 00.B06	#3 STEEL REINFORCING BARS
05 05 23.D4	3/4" ANCHOR BOLT

**SHEET KEYNOTES**



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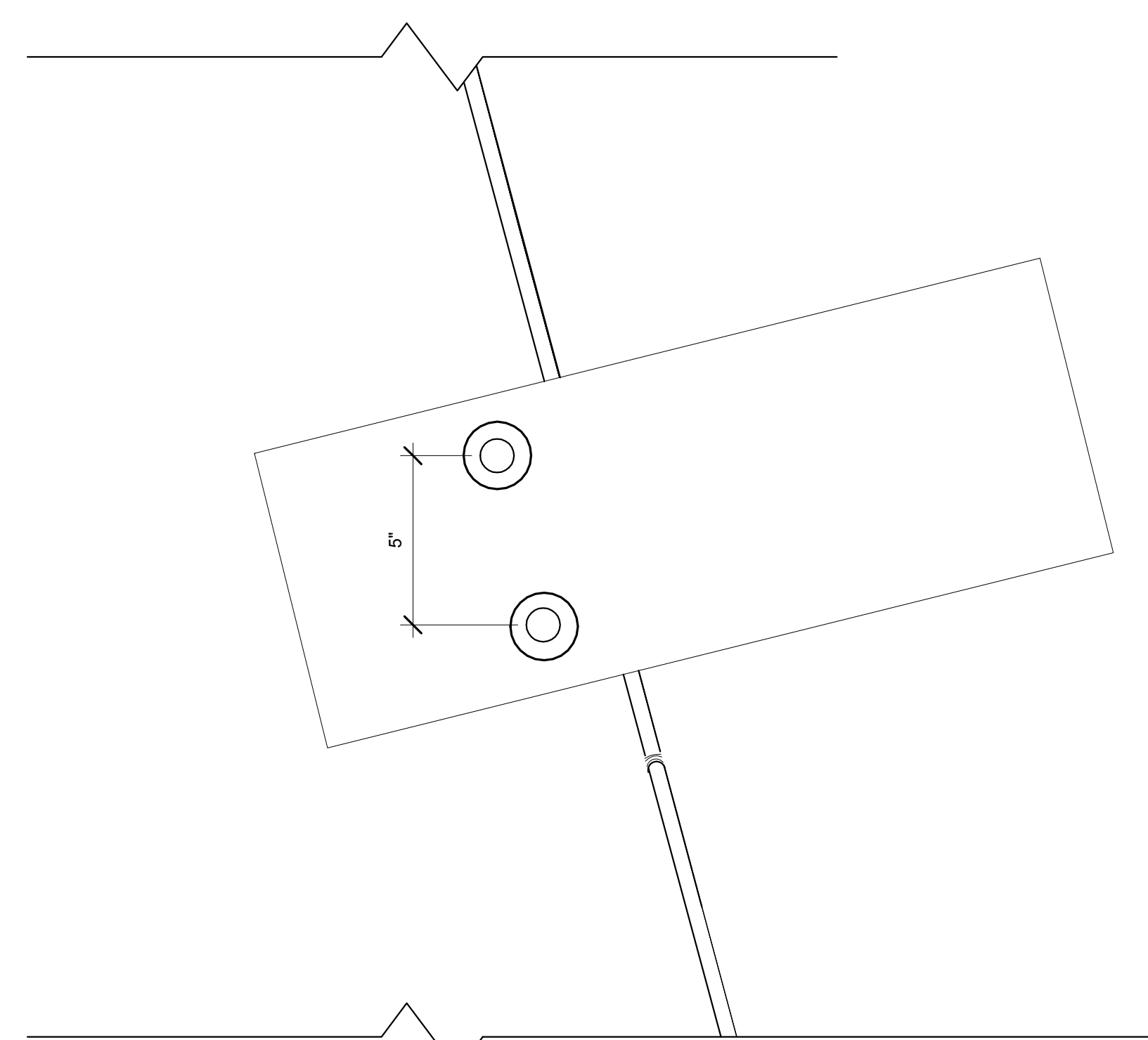
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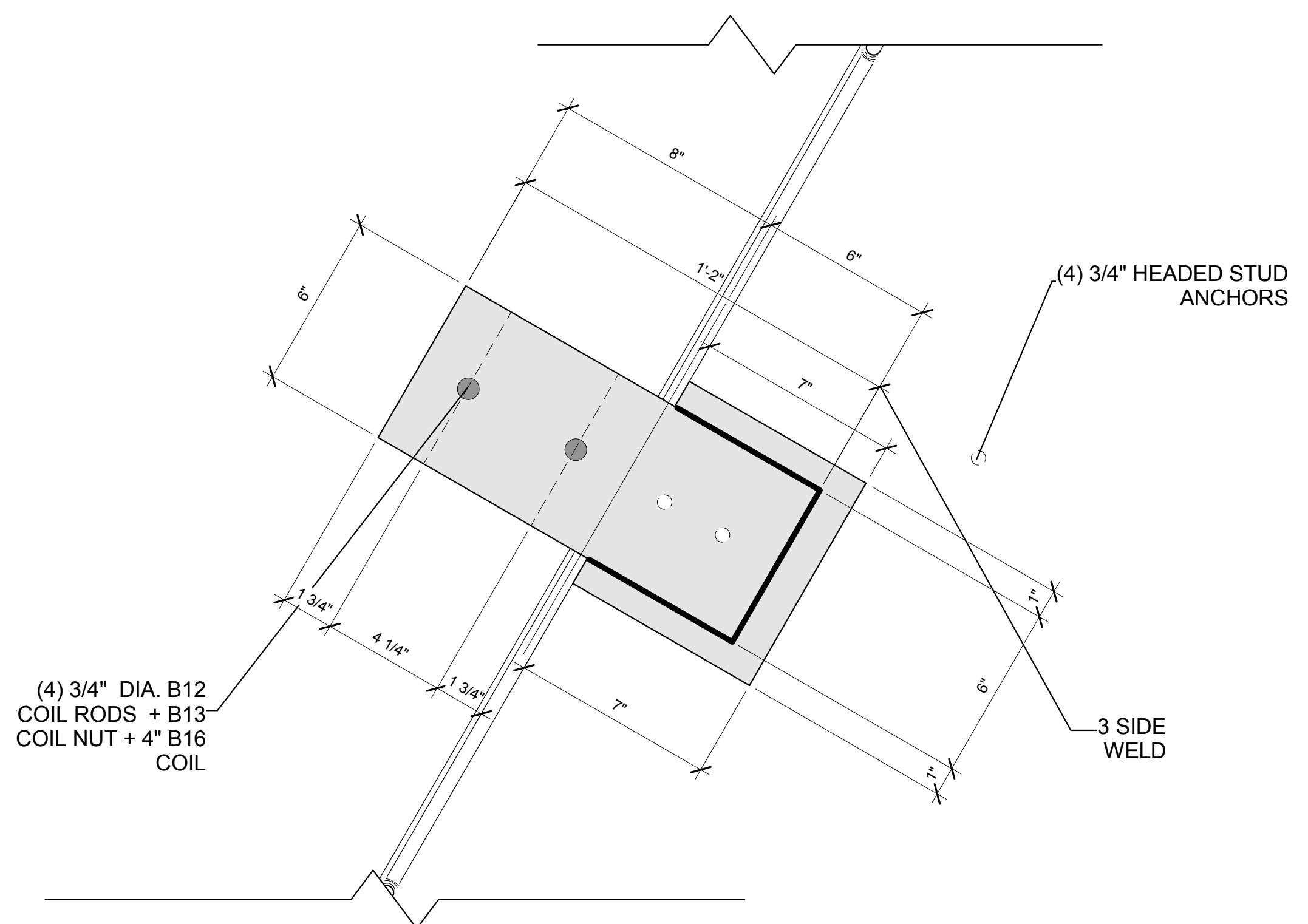
SHEET TITLE  
**ROOF DETAILS**

**S-531**





**D1** PLAN DETAIL - ROOF PANEL TO PANEL CONNECTION 2  
3" = 1'-0"



**D3** PLAN DETAIL - ROOF PANEL TO PANEL CONNECTION 2  
3" = 1'-0"



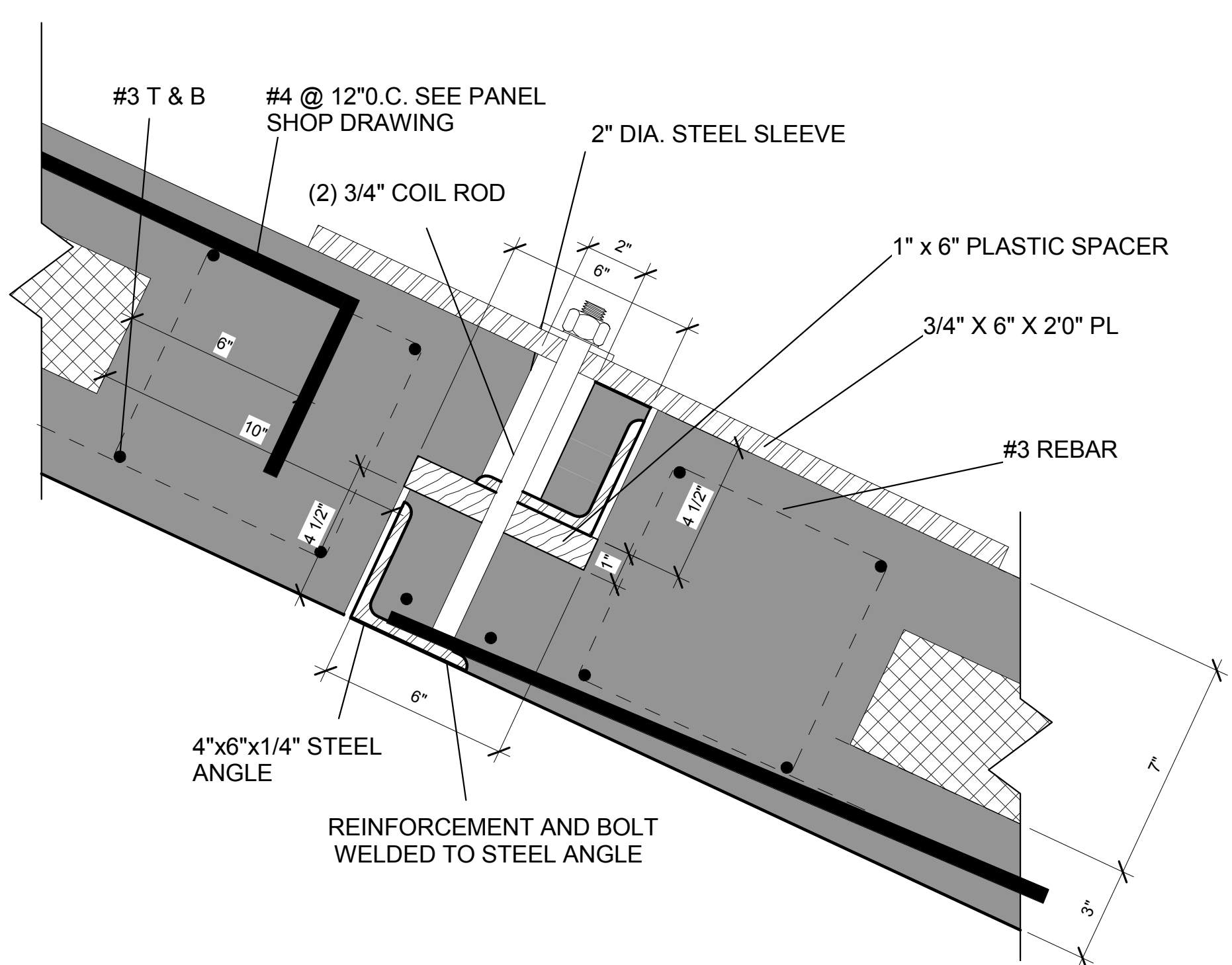
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

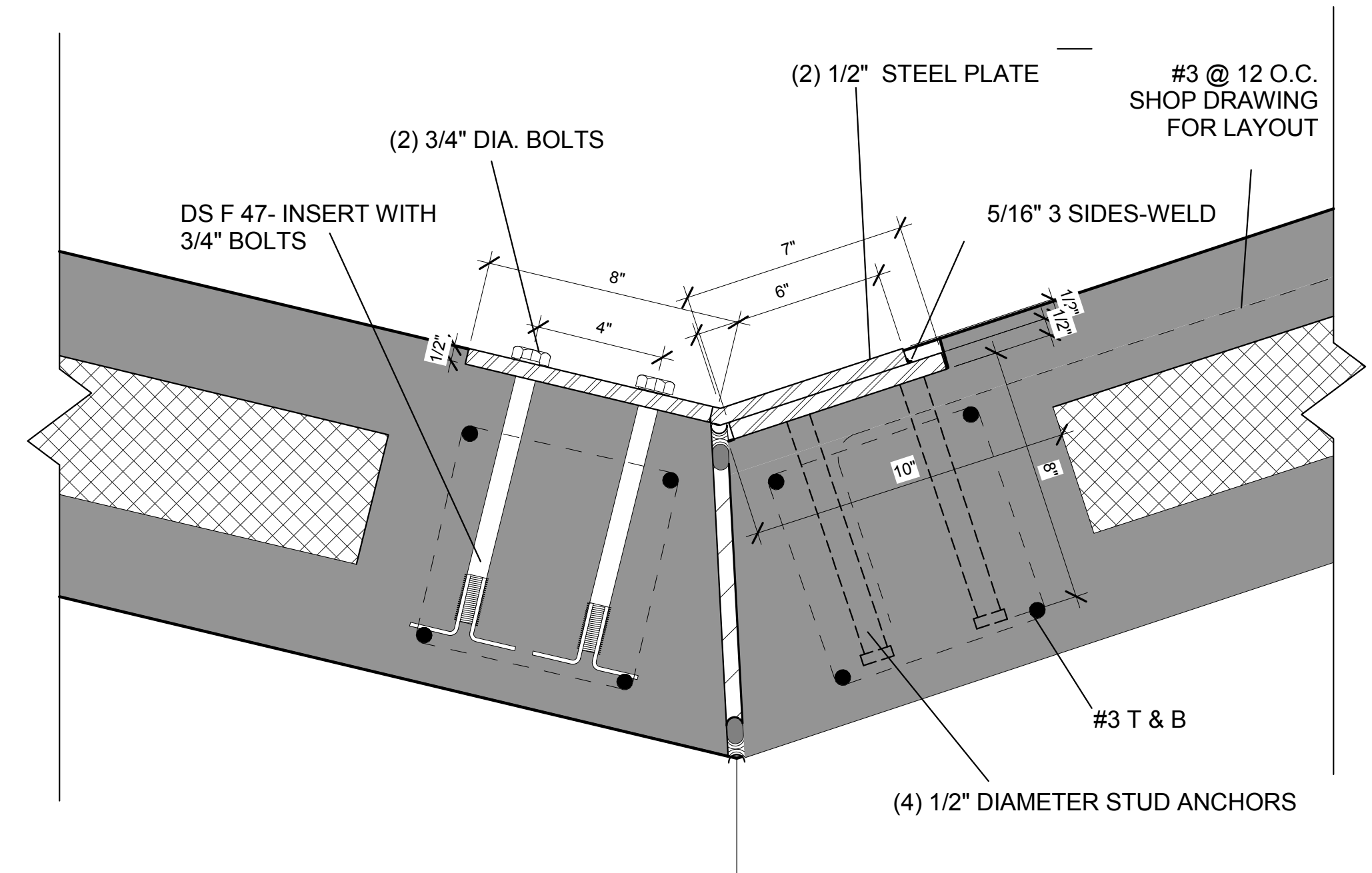
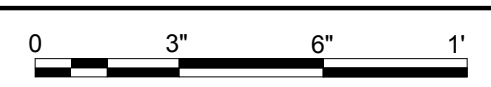
03 21 00	REINFORCING STEEL
03 40 00.A1	1/2" STEEL PLATE
03 40 00.A2	STEEL ANGLE
03 45 00.A02	PIP ROOF ASSEMBLY

**SHEET KEYNOTES**

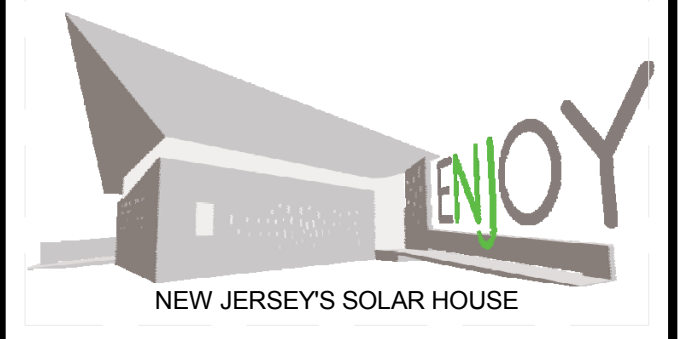
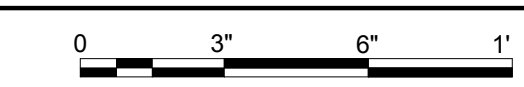
- ALL ROOF PANELS WILL HAVE THE FOLLOWING RE-INFORCEMENT:  
#5 REBAR @ 7" O.C. TOP AND BOTTOM WYTHES
- FOR TEMPERATURE AND CRACKING ALL ROOF PANELS WILL HAVE THE FOLLOWING RE-INFORCEMENT:  
#3 REBAR @ 12" O.C. TOP AND BOTTOM WYTHES PARALLEL TO PANELS OUTER EDGE



**A1** ROOF PANEL TO PANEL DETAIL CONNECTION 1  
3" = 1'-0"

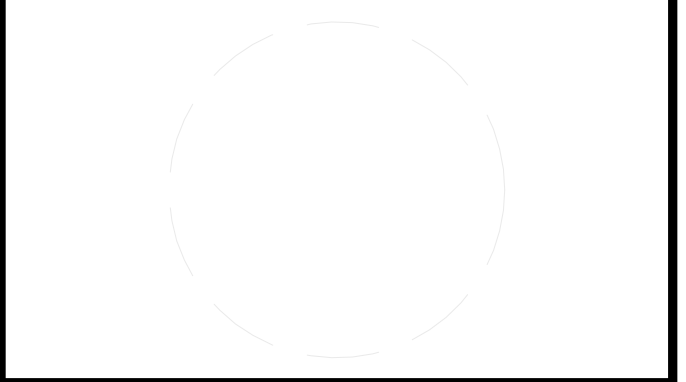


**A3** ROOF PANEL TO PANEL DETAIL CONNECTION 2  
3" = 1'-0"



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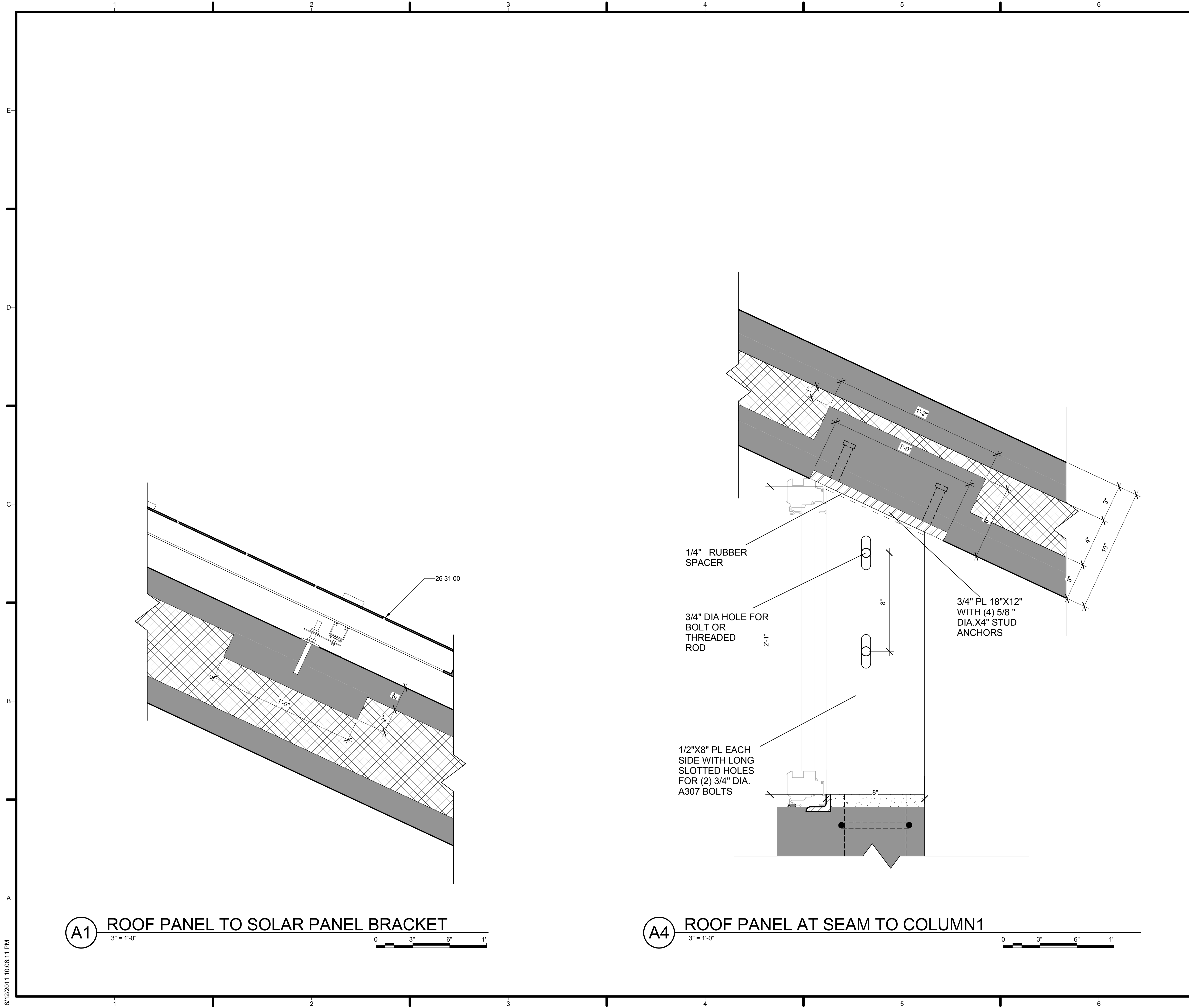
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SHEET TITLE  
**ROOF DETAILS**

**S-532**

8/12/2011 10:06:07 PM



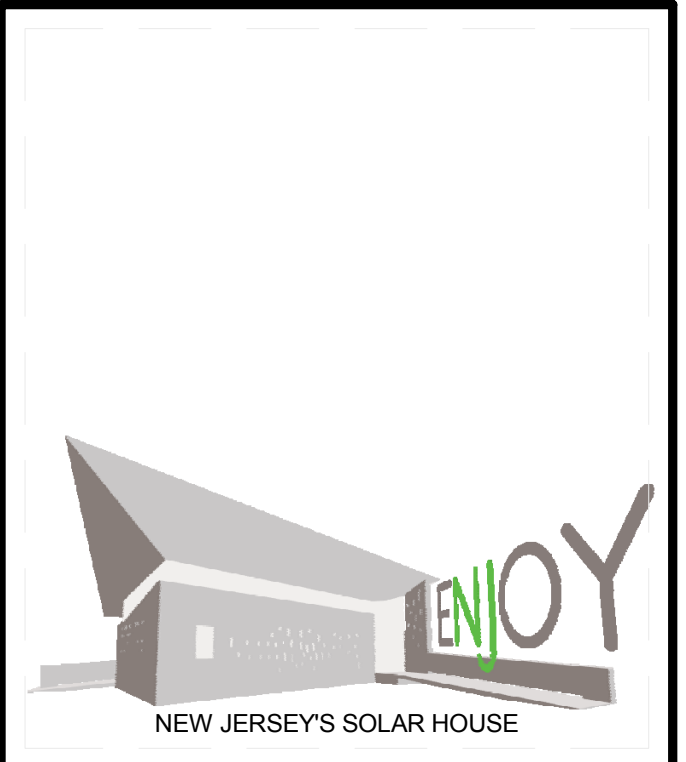
GENERAL SHEET NOTES

REFERENCE KEYNOTES

26 31 00 SUNTECH 225 PHOTOVOLTAIC COLLECTORS

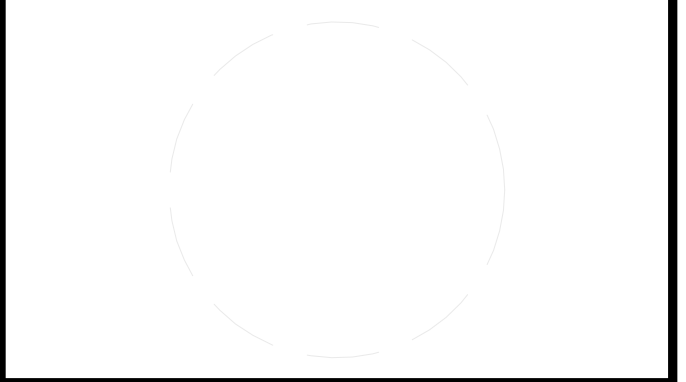
SHEET KEYNOTES

1. ALL ROOF PANELS WILL HAVE THE FOLLOWING RE-INFORCEMENT:  
#5 REBAR @ 7" O.C. TOP AND BOTTOM WYTHES
2. FOR TEMPERATURE AND CRACKING ALL ROOF PANELS WILL HAVE THE FOLLOWING RE-INFORCEMENT:  
#3 REBAR @ 12" O.C. TOP ANE BOTTOM WYTHES PARALLEL TO PANELS OUTER EDGE



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SHEET TITLE  
 ROOF DETAILS

S-533

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DESIGN INTENT

THE ENJOY HOUSE IS CONCEPTUALLY CONCEIVED AS A PARADIGM THAT INTEGRATES PASSIVE STRATEGIES, NEW SOLAR TECHNOLOGIES, AND CONTEMPORARY ARCHITECTURAL IDEAS WHOSE PROTOTYPE CHALLENGES TRADITIONAL BUILDING TECHNIQUES AND SUGGESTS A NEW METHOD OF APPROACHING HIGH EFFICIENCY HOUSING. MODULARITY COINCIDES WITH THE USE OF SUCH AN INNOVATIVE MATERIAL AS PRECAST INSULATED CONCRETE PANELS THAT ARE SELDOM CONSIDERED A CONVENTIONAL RESIDENTIAL BUILDING MATERIAL. ASSEMBLY OF MODULAR COMPONENTS ALLOWS FOR A FASTER CONSTRUCTION PROCESS REDUCING LABOR COSTS AND ELIMINATING THE NEED FOR ADDITIONAL TRADESMEN. HIGH THERMAL MASS PROPERTIES OF THE PRECAST INSULATED CONCRETE PANELS CONTRIBUTE TO PASSIVE CONTROL OF A SPACE'S CLIMATE.

THE ENJOY HOUSE DESIGN IS SITUATED AROUND TWO MAIN CONCEPTS; THE CORE OF THE HOUSE WHICH CONTAINS THE INTEGRATED SYSTEMS AND ACCESSIBILITY. THE HOUSE STRIVES TO CREATE A NEW IMAGE OF A HIGHLY PERFORMATIVE HOUSE WITH AN APPEALING AESTHETIC. THE ROOF IS A BOWL SHAPE CALIBRATED FOR THE OPTIMAL SUN ANGLE AND FOR RAIN COLLECTION; HIDING ALL THE PHOTOVOLTAICS AND SOLAR COLLECTORS THAT CARRY THE STIGMA OF BEING UNATTRACTIVE. THE ROOF OVERHANGS ON THE SOUTH-FACADE TO BLOCK SUNLIGHT IN THE SUMMER AND ALLOW FOR IT TO PENETRATE THE HOUSE IN THE WINTER. THE ROOF ACTS ON MULTIPLE LEVELS TO RESPOND TO BOTH VISUAL AND PASSIVE STRATEGIES. THE OPERABLE WINDOWS IN THE HOUSE ARE PLACED INTENTIONALLY FOR CROSS VENTILATION.

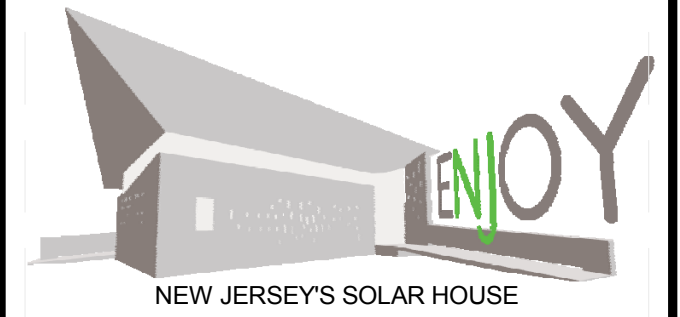
THE INTERIOR HIGHLIGHTS THE CONCRETE'S ESSENCE WHILE STILL CREATING AN ATMOSPHERE OF RELAXATION. PANELITE IS USED AS AN ACCENT; ITS BRIGHT COLOR AND TRANSLUCENCY GIVES THE INTERIOR SPACES AN AIR OF ELEGANCE AND REFINEMENT. WOOD IS USED IN ORDER TO CREATE A TACTILE ENVIRONMENT; THIS WILL ALLOW PEOPLE WHO HAVEN'T PREVIOUSLY THOUGHT OF A CONCRETE HOUSE AS A HOME TO RETHINK THEIR POSITION. CENTERING THE CORE MAKES CIRCULATION SIMPLE AND GIVES THE HOUSE A SENSE OF FREEDOM.

ABBREVIATIONS

A.B.	ANCHOR BOLT	KIT.	KITCHEN
ACOUST.	ACOUSTICAL	KW.	KILOWATT
ADJ.	ADJUSTABLE	L.	LENGTH
A.F.F.	ABOVE FINISH FLOOR	LAV.	LAVATORY
A.H.U.	AIR HANDLING UNIT	LAM.	LAMINATE
ALT.	ALTERNATE	L.F.	LINEAR FEET
ALUM.	ALUMINUM	LKR.	LOCKER
ANOD.	ANODIZED	L.L.	LEAD LINED
A.P.	ACCESS PANEL	MAS.	MASONRY
APP.	APPROXIMATE	MAX.	MASIMUM
ARCH.	ARCHITECTURAL	MECH.	MECHANICAL
A.T.	ACOUSTICAL TILE	MED.CAB.	MEDICINE CABINET
BD.	BOARD	MTL.	METAL
BM.	BEAM	MFD.	MANUFACTURED
BOT.	BOTTOM	MFR.	MANUFACTURER
B.U.R.	BUILT-UP ROOFING	M.H.	MANHOLE
BLDG.	BUILDING	MIN.	MINIMUM
CAB.	CABINET	MIR.	MIRROR
C.F.C.I.	CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED	MISC.	MISCELLANEOUS
C.G.	CORNER GUARD	MLDG.	MOLDING
C.I.	CAST IRON	M.O.	MASONRY OPENING
CL.	CLEAR	M.T.	METAL THRESHOLD
CLO.	CLOSET	MTD.	MOUNTED
C.M.U.	CONCRETE MASONRY UNIT	N.I.C.	NOT IN CONTRACT
COL.	COLUMN	NOM.	NOMINAL
CONC.	CONCRETE	NTS.	NOT TO SCALE
CONST.	CONSTRUCTION	O.A.	OVERALL
CONT.	CONTINUOUS	OFCL.	OWNER FURNISHED CONTRACTOR INSTALLED
CONT.	CONTINUOUS	O.C.	ON CENTER
CONTR.	CONTRACTOR	O.D.	OUTSIDE DIAMETER
CORR.	CORRIDOR	PL.	PLATE
CPT.	CARPET	P.LAM.	PLASTIC LAMINATE
C.T.	CERAMIC TILE	PLAS.	PLASTER
CRT.	COUNTER	PLUMB.	PLUMBING
DET.	DETAIL	PLWD.	PLYWOOD
DIA.	DIAMETER	P.T.	PRESSURE TREATED
DIAG.	DIAGNOL	P.T.D.	PAPER TOWEL DISPENSER
DIM.	DIMENSION	P.V.C.	POLYVINYL CHLORIDE
DISP.	DISPENSER	Q.T.	QUARRY TILE
DN.	DOWN	R.	RADIUS
DWG.	DRAWING	R.C.P.	REINFORCED CONCRETE PIPE
E.B.	EXPANSION BOLT	R.D.	ROOF DRAIN
E.J.	EXPANSION JOINT	REC.	RECEPTACLE
EL.	ELEVATION	REF.	REFRIGERATOR
ELEC.	ELECTRICAL	REG.	REGLET
ELEV.	ELEVATOR	REINF.	REINFORCED
E.P.	ELECTRICAL PANEL	REQD.	REQUIRED
EQ.	EQUAL	RM.	ROOM
EQUIP.	EQUIPMENT	R.O.	ROUGH OPENING
E.W.C.	ELECTRIC WATER COOLER	SCRN.	SCREEN
EX.	EXISTING	SCHD.	SCHEDULE
EXP.	EXPOSED	SEC.	SECTION
EXT.	EXTERIOR	SH.	SHelf
F.C.	FURRING CHANNEL	SHT.	SHEET
F.E.C.	FIRE EXTINGUISHER CAB.	SIM.	SIMILAR
F.D.	FLOOR DRAIN	SP.	SPACE
F.F.	FINISH FLOOR	SPECS.	SPECIFICATIONS
F.H.C.	FIRE HOSE CABINET	SS.	STAINLESS STEEL
FIN.	FINISH	STL.	STEEL
FL.	FLOOR	STOR.	STORAGE
F.R.	FIRE RATED	STRUC.	STRUCTURAL
GA.	GAUGE	SUSP.	SUSPENDED
GALV.	GALVINIZED	T.B.	TOGGLE BOLT
G.C.	GENERAL CONTRACTOR	T.C.	TOILET COMPARTMENT
GL.	GLASS	TEL.	TELEPHONE
G.F.R.C.	GLASS FIBER REINFORCED CEMENT	TEMP.	TEMPERATURE
G.F.R.G.	GLASS FIBER REINFORCED GYPSUM	T.P.D.	TOILET PAPER DISPENSER
GR.	GRADE	TYP.	TYPICAL
GYP.	GYPSUM	U.C.	UNDERCOUNTER
G.W.B.	GYPSUM WALLBOARD	UTIL.	UTILITY
HT.	HEIGHT	V.B.	VINYL BASE
H.B.	HOSE BIB	VEST.	VESTIBULE
HVAC.	HEATING, VENTILATING, & AIR CONDITIONING	VERT.	VERTICAL
I.D.	INSIDE DIAMETER	V.I.F.	VERIFY IN FIELD
I.E.	INVERT ELEVATION	V.W.C.	VINYL WALLCOVERING
INSUL.	INSULATION	W.	WIDTH
INT.	INTERIOR	W/	WITH
JT.	JOINT	W.C.	WATER CLOSET
		WD.	WOOD
		W.P.	WEATHER PROOF
		W.W.F.	WELDED WIRE FABRIC

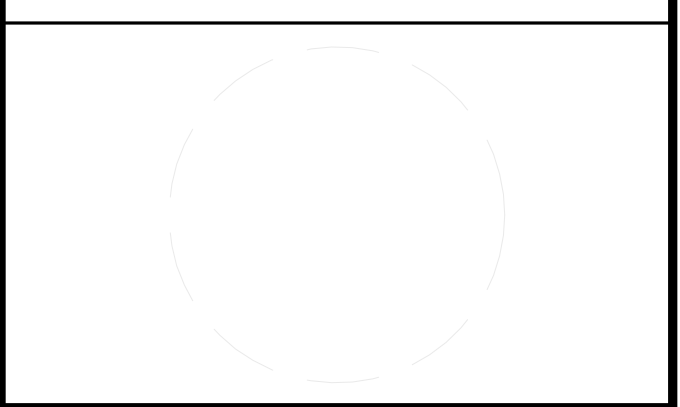
GENERAL SYMBOL LEGEND

MARK	DESCRIPTION
ROOM NAME 150 SF	ROOM DESIGNATION
	ELEVATION MARKER
	SECTION
	ELEVATION TAG
	COLUMN GRID TAG
	NORTH ARROW
	GRAPHICAL SCALE



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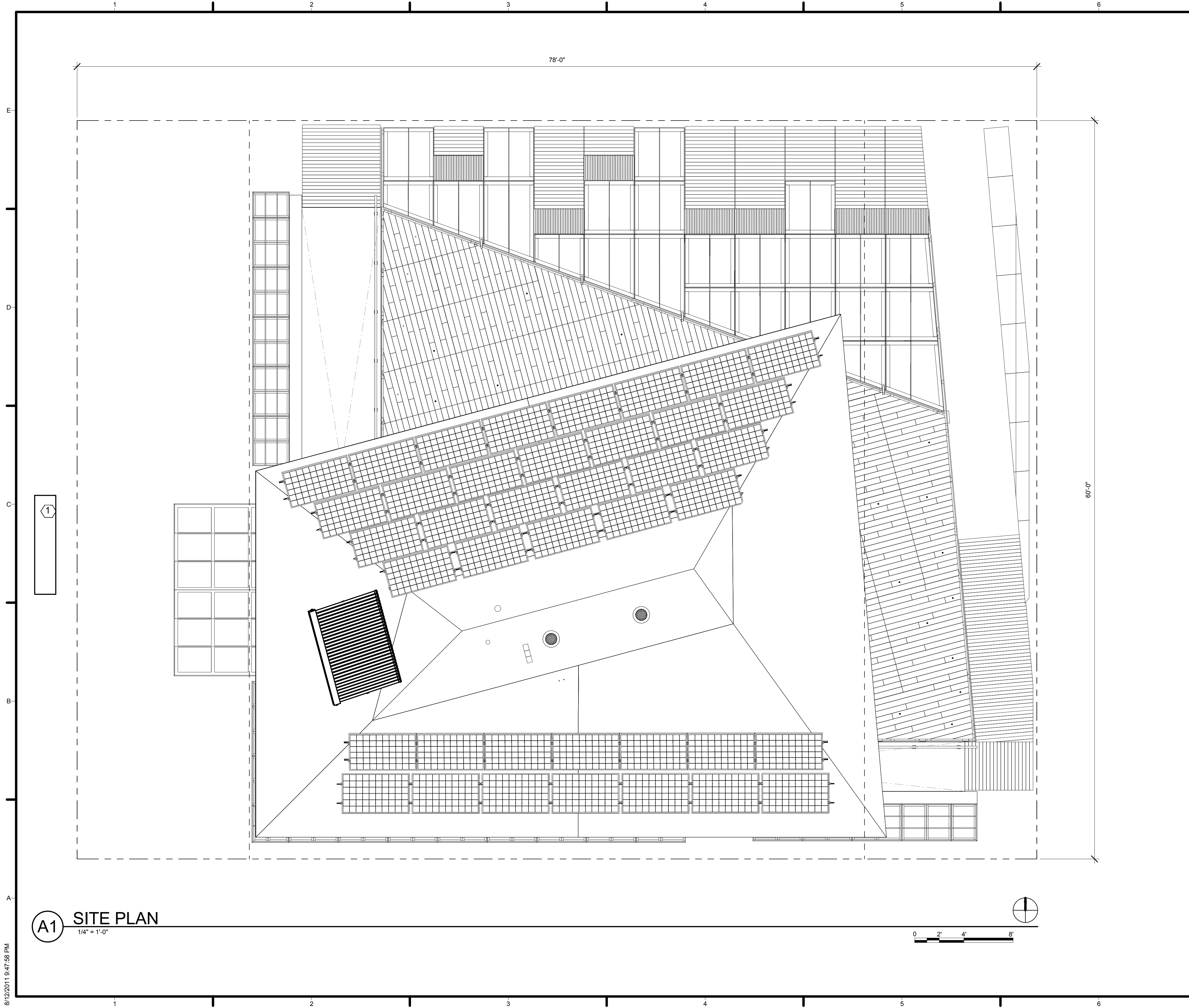
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**ARCHITECTURAL SYMBOLS AND NOTES**

**A-001**



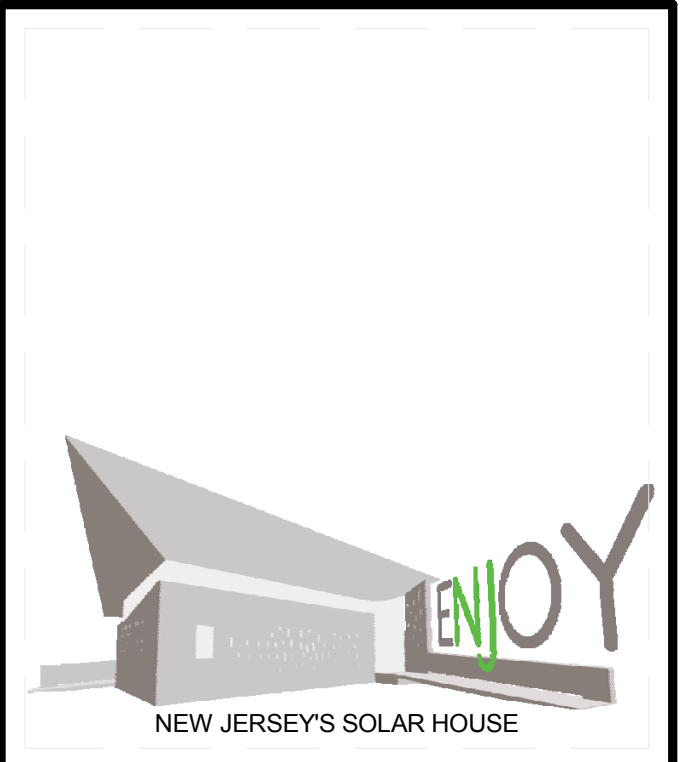


GENERAL SHEET NOTES

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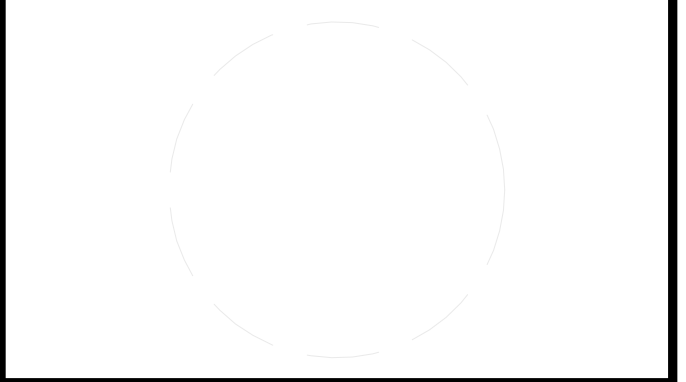
SHEET KEYNOTES

1. ORGANIZER UTILITY PANEL



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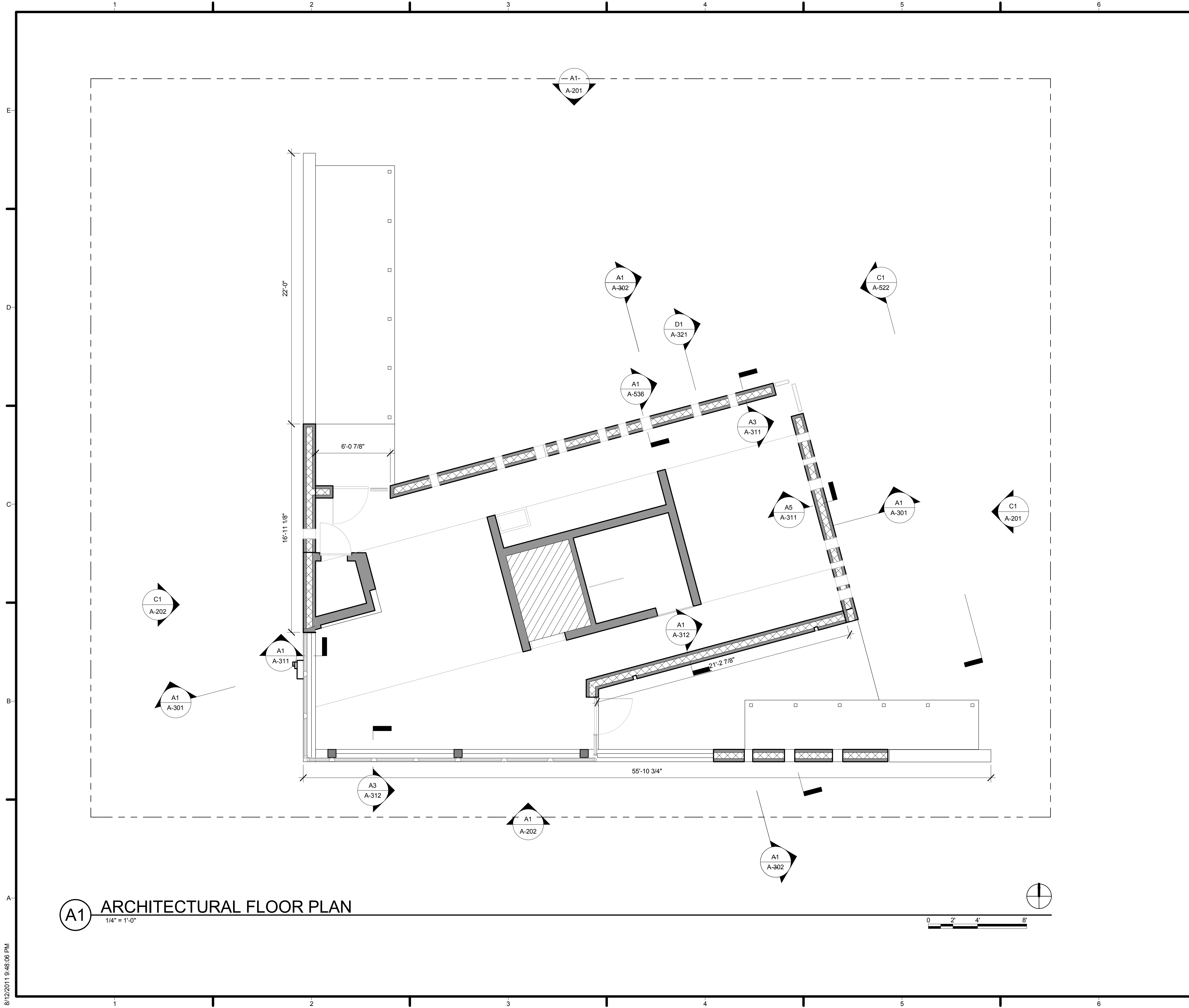
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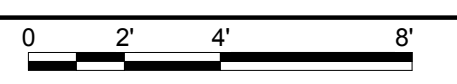
SHEET TITLE  
**SITE PLAN**

**A-101**

8/12/2011 9:47:58 PM



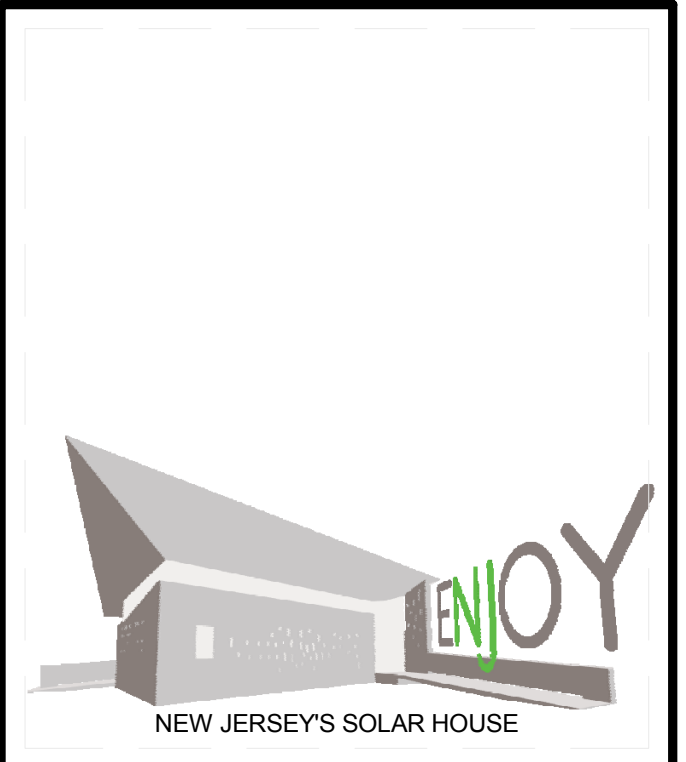
**A1** ARCHITECTURAL FLOOR PLAN  
1/4" = 1'-0"



GENERAL SHEET NOTES

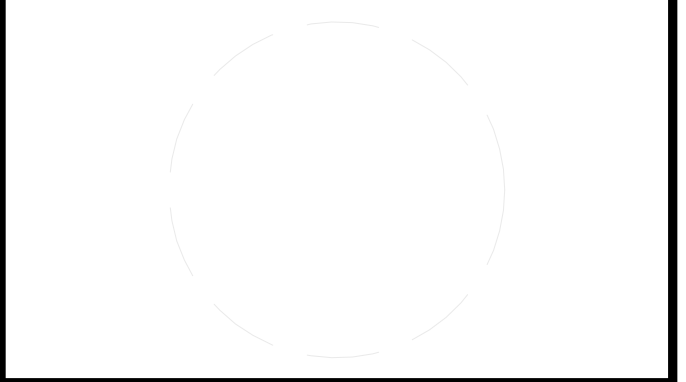
REFERENCE KEYNOTES

SHEET KEYNOTES



TEAM NAME: TEAM NJ  
 ADDRESS: CYPRESS ANNEX  
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 NEWARK, NJ 07102  
 CONTACT: TEAMNEWJERSEY@YAHOO.COM  
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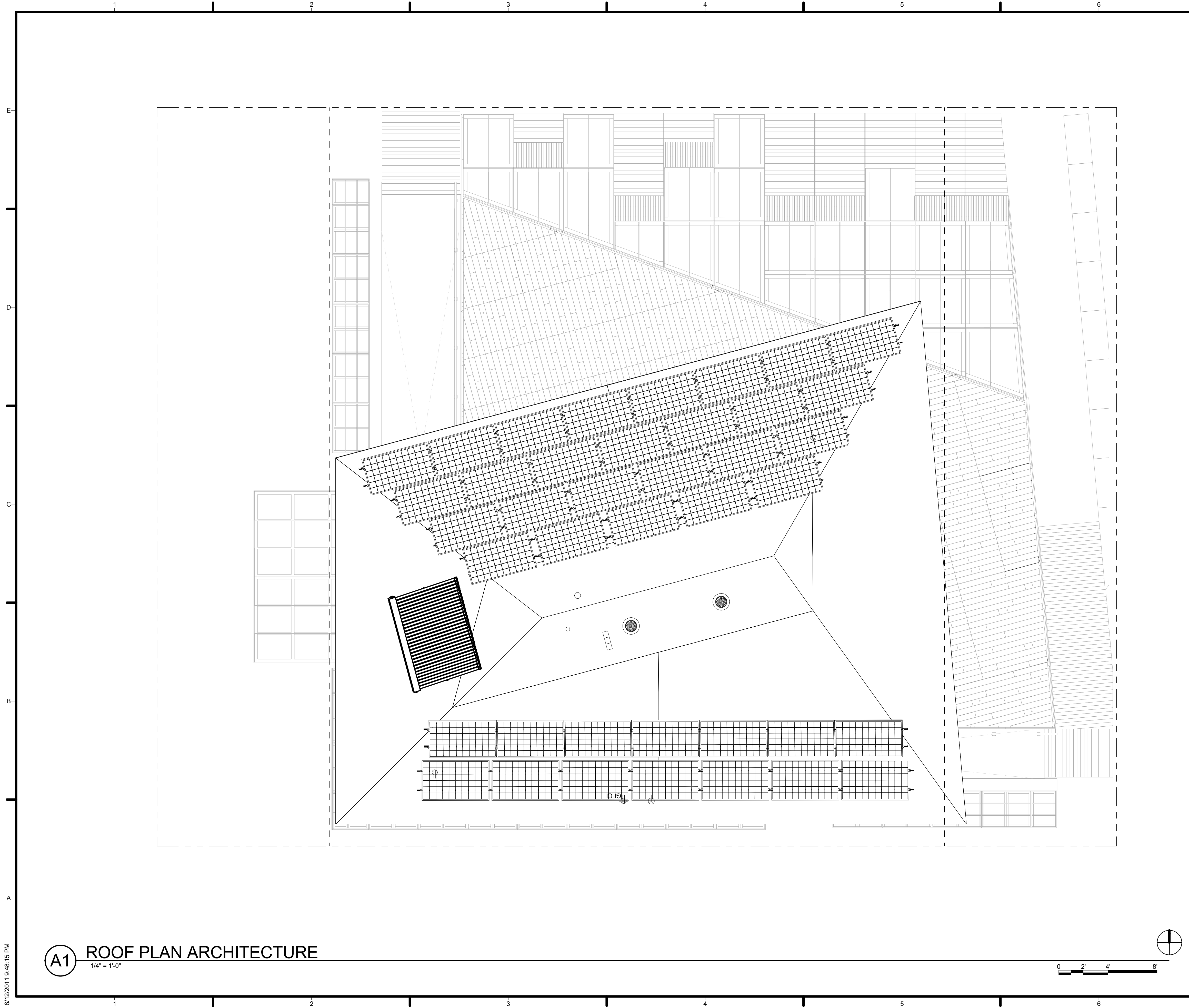
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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 COPYRIGHT: NONE; PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
**ARCHITECTURAL FLOOR PLAN**

**A-111**

8/12/2011 9:48:06 PM

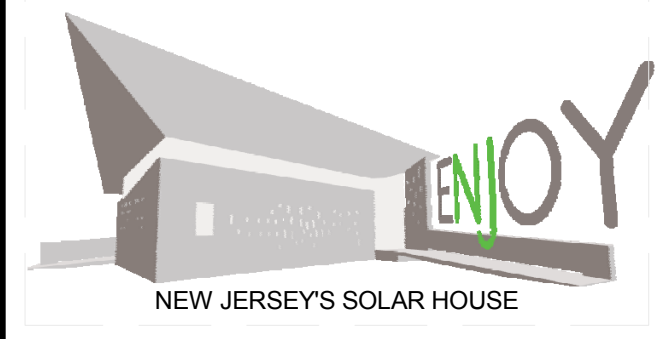




GENERAL SHEET NOTES

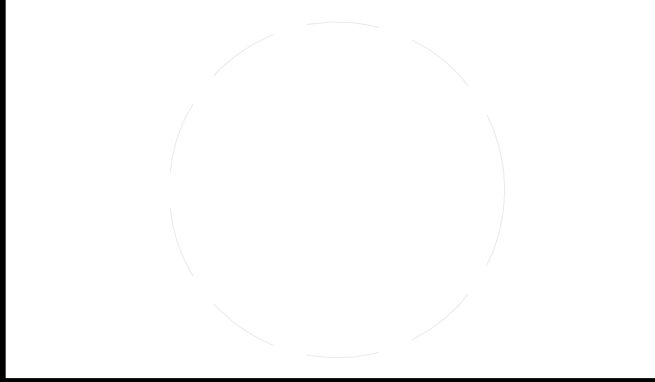
REFERENCE KEYNOTES

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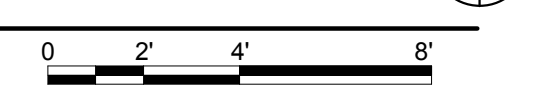
MARK	DATE	DESCRIPTION
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A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: AUTHOR  
 CHECKED BY: CHECKER  
 COPYRIGHT: NONE; PROJECT IS PUBLIC DOMAIN

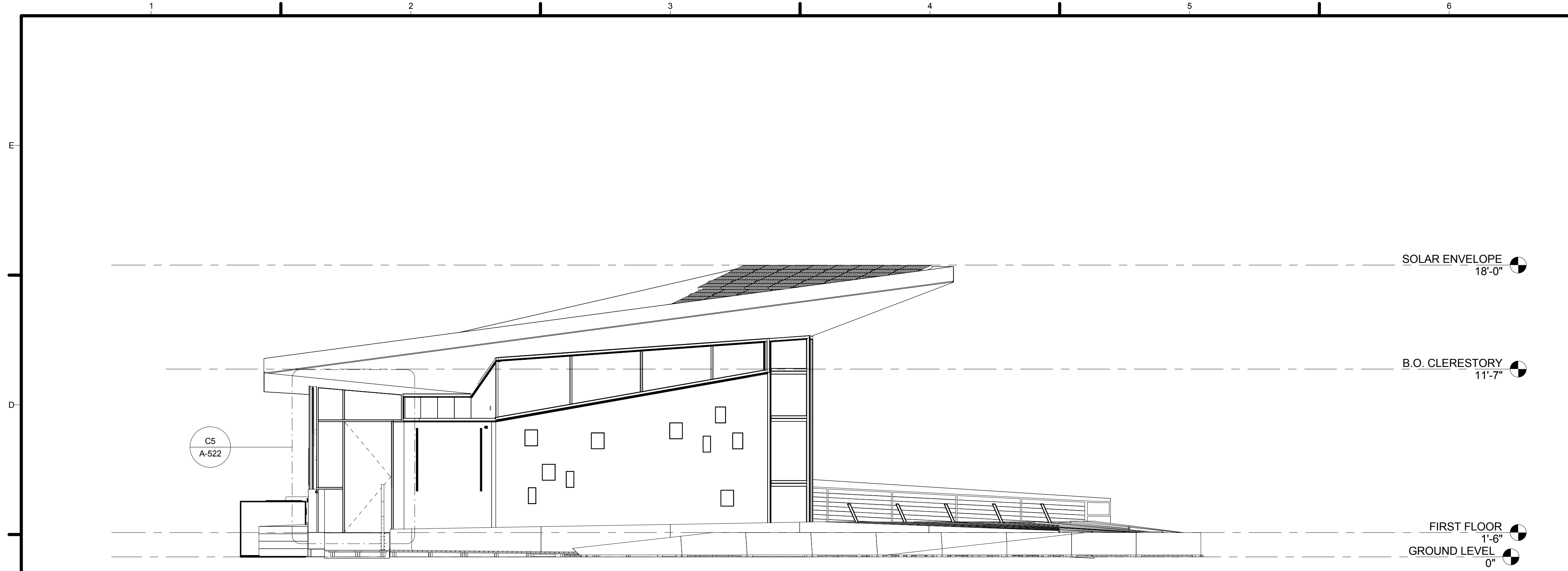
SHEET TITLE  
**ROOF PLAN**

**A-112**

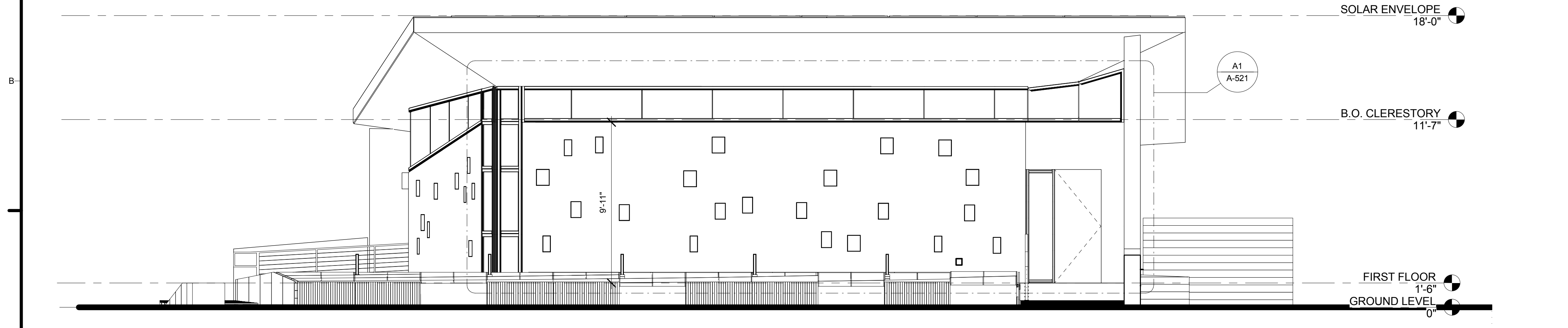
**A1** ROOF PLAN ARCHITECTURE  
 1/4" = 1'-0"



8/12/2011 9:48:15 PM



**C1 EAST ELEVATION**  
1/4" = 1'-0"

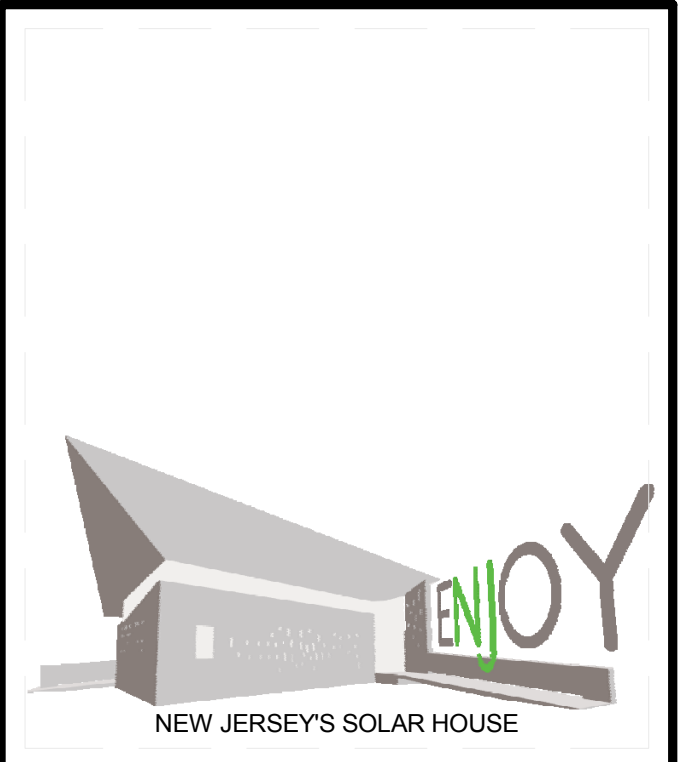


**A1 NORTH ELEVATION**  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

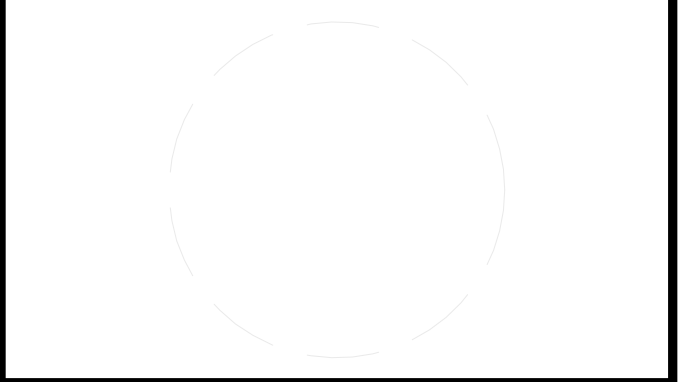
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**SHEET KEYNOTES**



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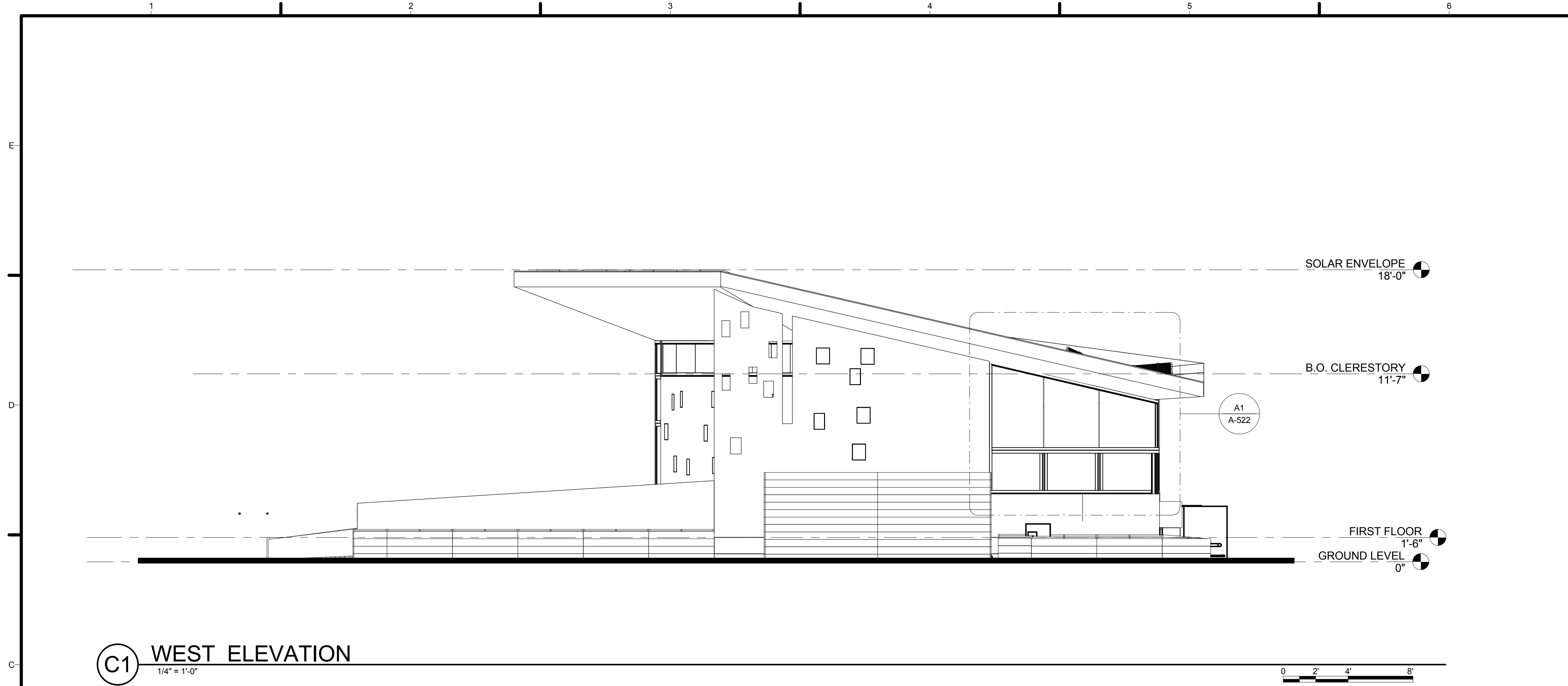
MARK	DATE	DESCRIPTION
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LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
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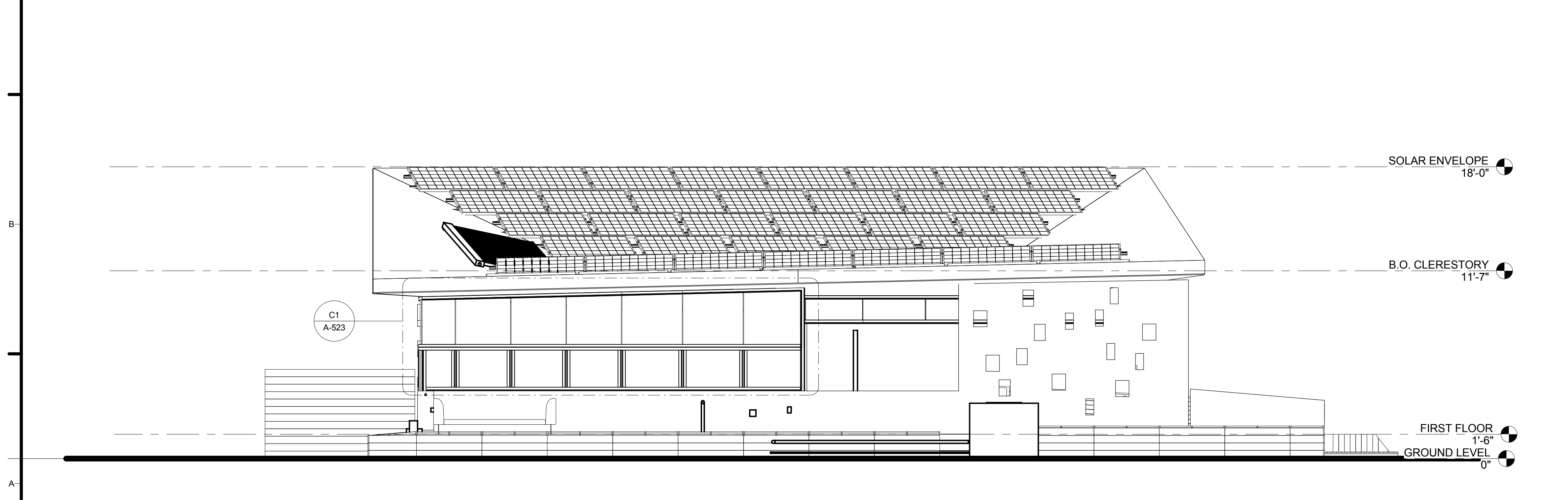
SHEET TITLE  
**SITE ELEVATIONS**

**A-201**





**C1 WEST ELEVATION**  
1/4" = 1'-0"

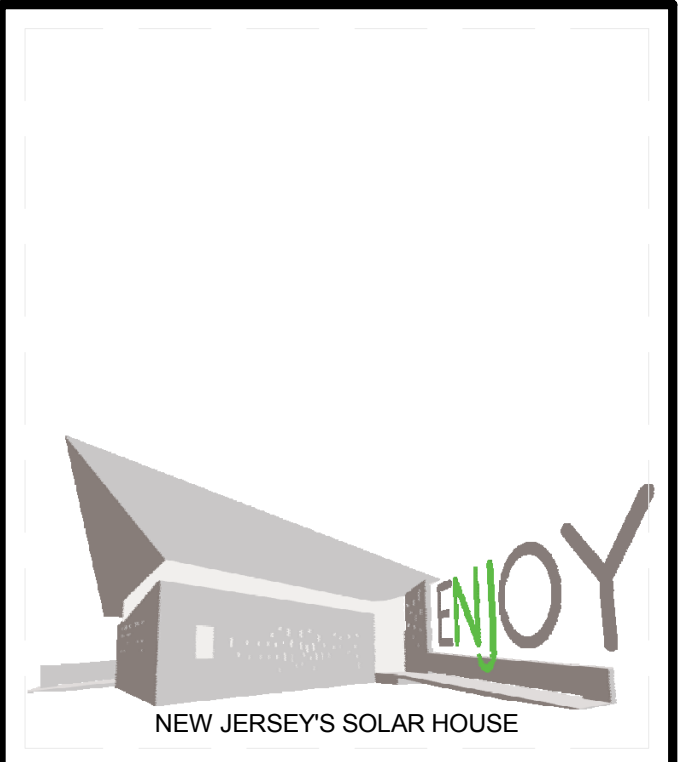


**A1 SOUTH ELEVATION**  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

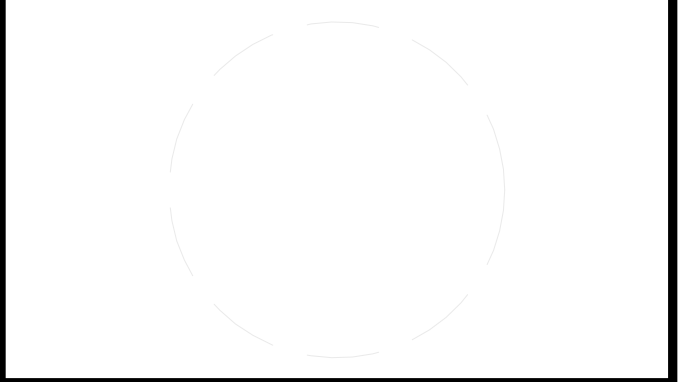
**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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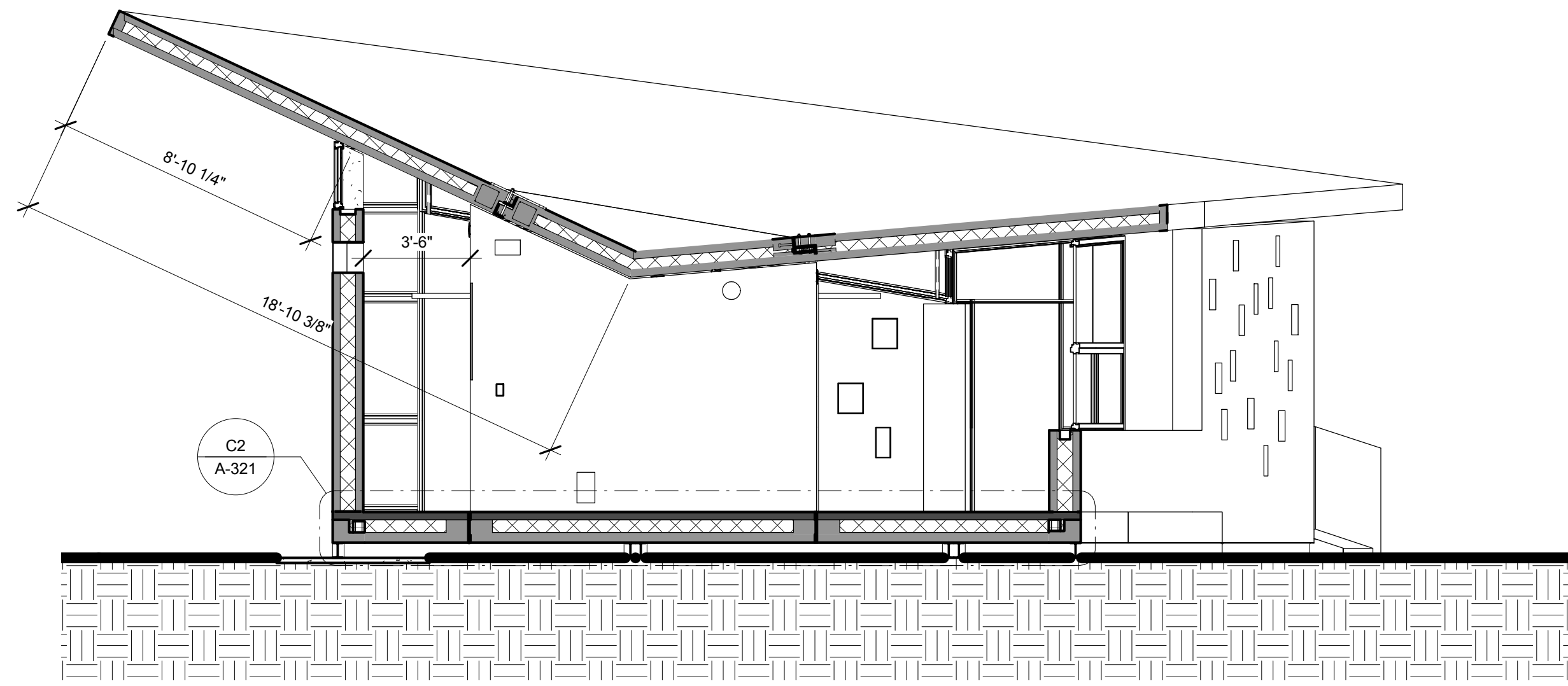


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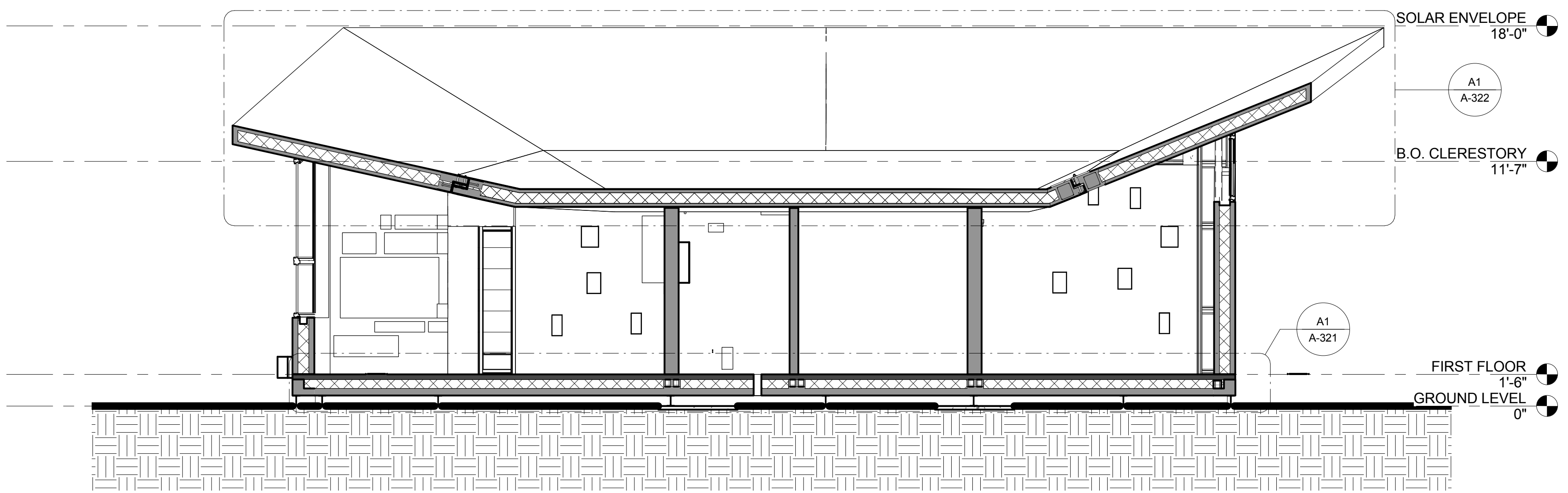
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
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SHEET TITLE  
**SITE ELEVATIONS**

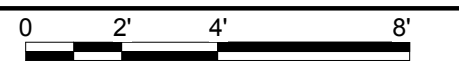
**A-202**



**C1** BUILDING SECTION 1  
1/4" = 1'-0"



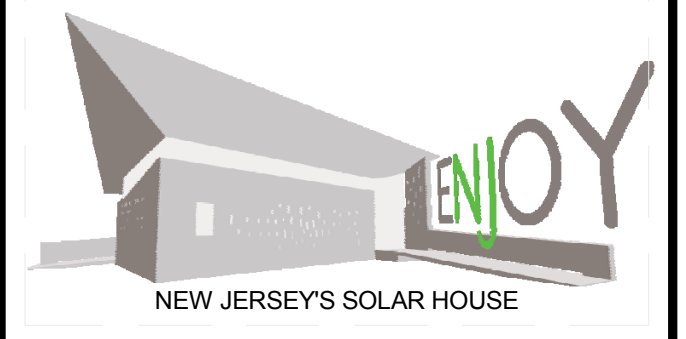
**A1** BUILDING SECTION 2  
1/4" = 1'-0"



GENERAL SHEET NOTES

REFERENCE KEYNOTES

SHEET KEYNOTES



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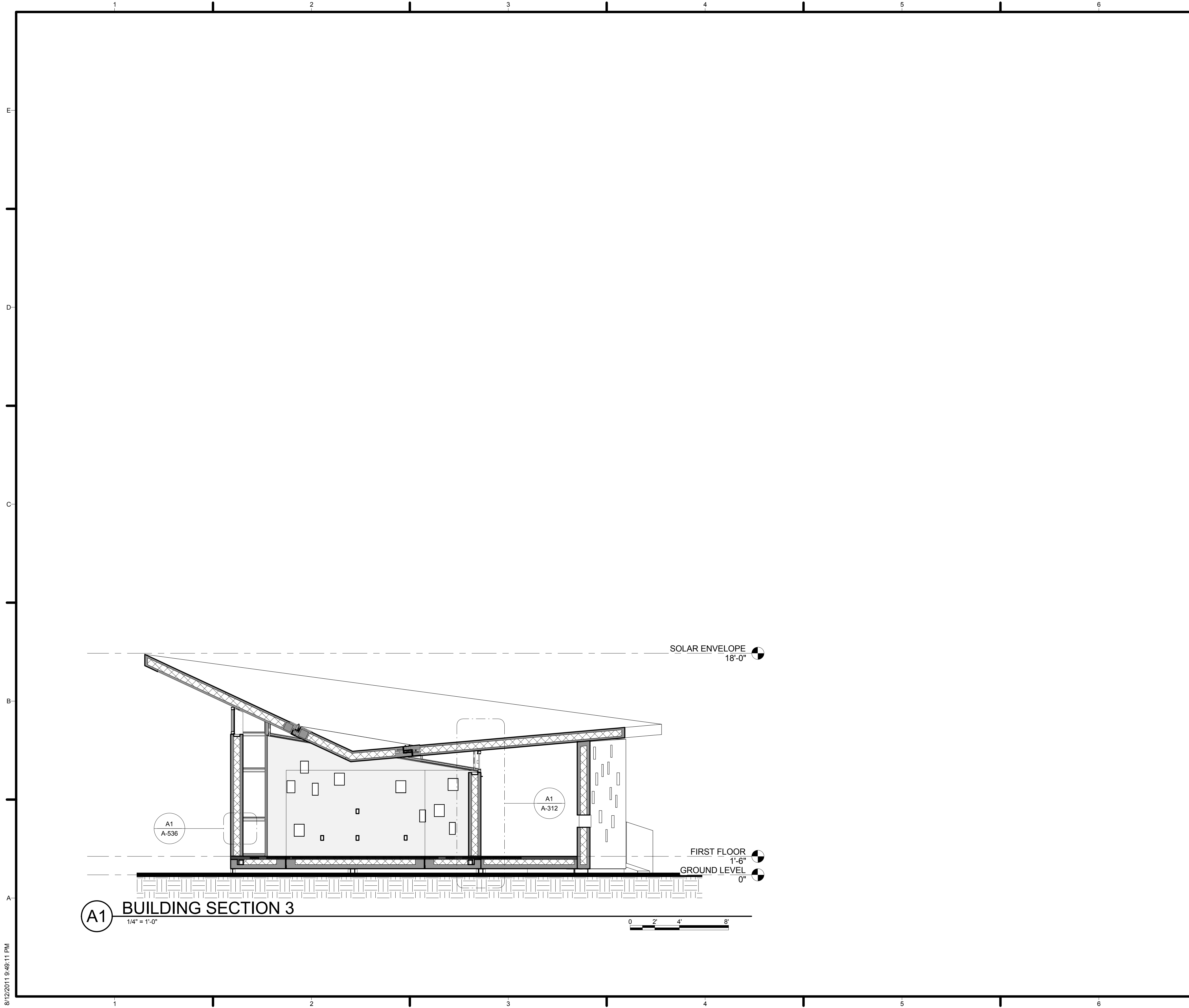
MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: CHECKER  
 COPYRIGHT: NONE: PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
**BUILDING SECTIONS**

**A-301**

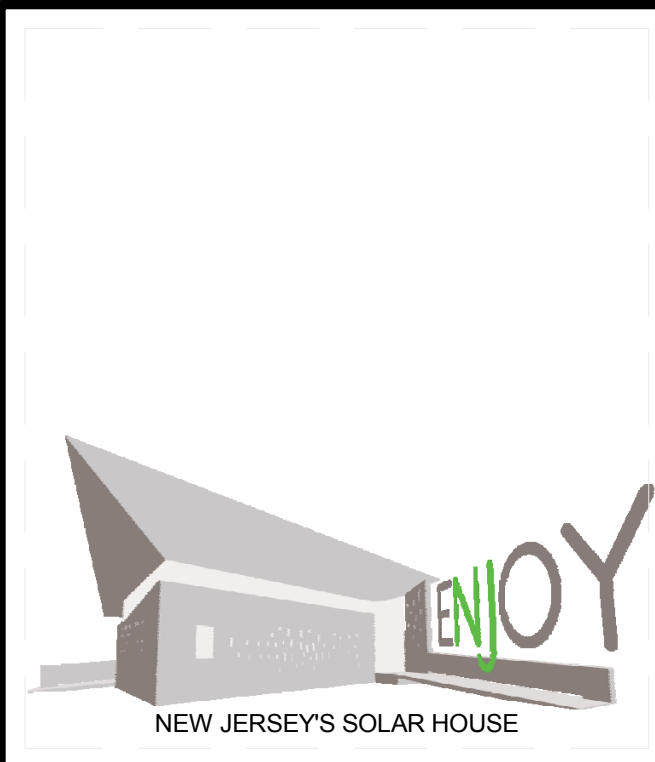




GENERAL SHEET NOTES

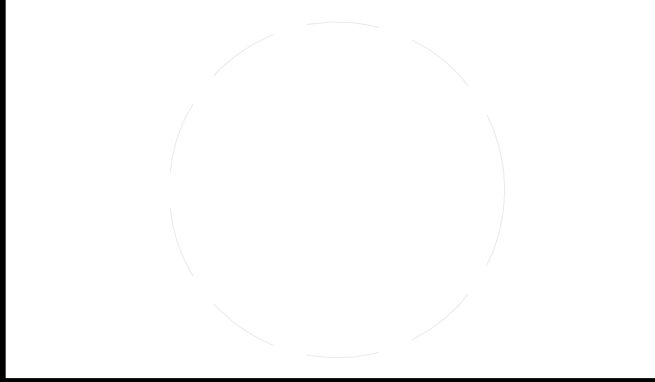
REFERENCE KEYNOTES

SHEET KEYNOTES



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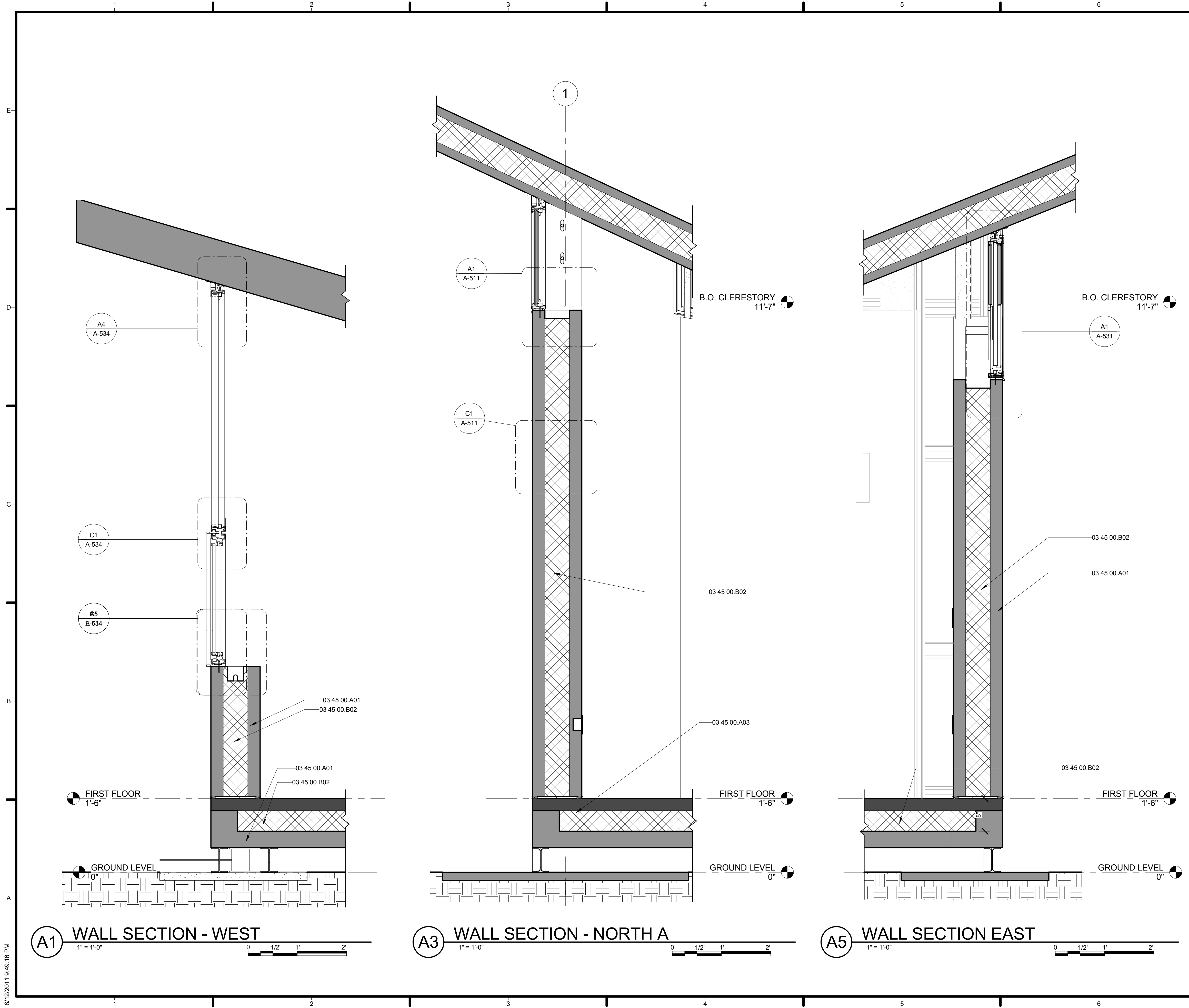
MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: CHECKER  
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SHEET TITLE  
**BUILDING SECTIONS**

**A-302**

8/12/2011 9:49:11 PM

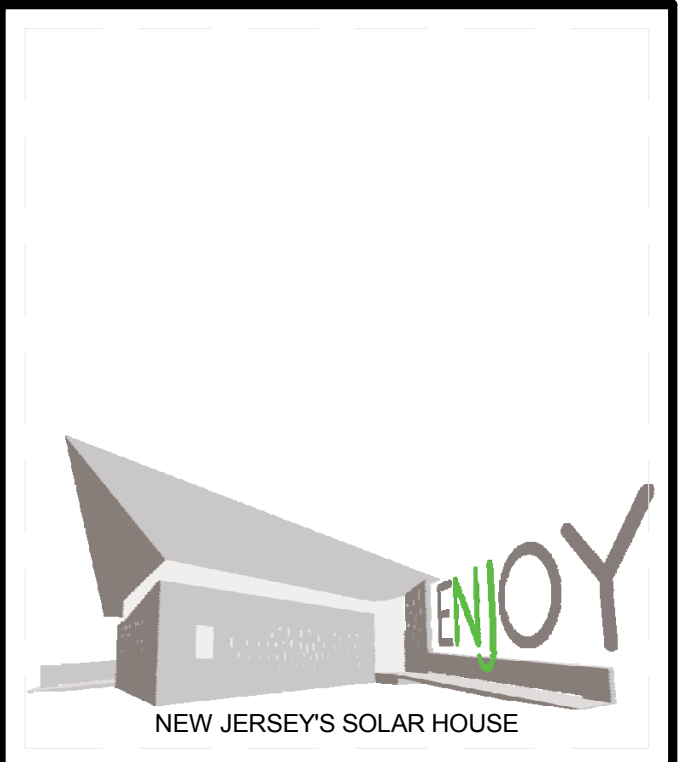


GENERAL SHEET NOTES

REFERENCE KEYNOTES

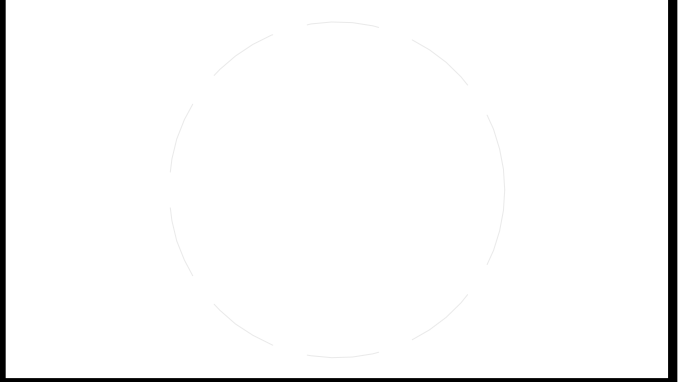
- 03 45 00.A01 PIP WALL ASSEMBLY
- 03 45 00.A02 PIP ROOF ASSEMBLY
- 03 45 00.A03 PIP FLOOR ASSEMBLY
- 03 45 00.B02 NEOPOR EPS INSULATION

SHEET KEYNOTES



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A	03/22/2011	CONSTRUCTION DOCUMENTS

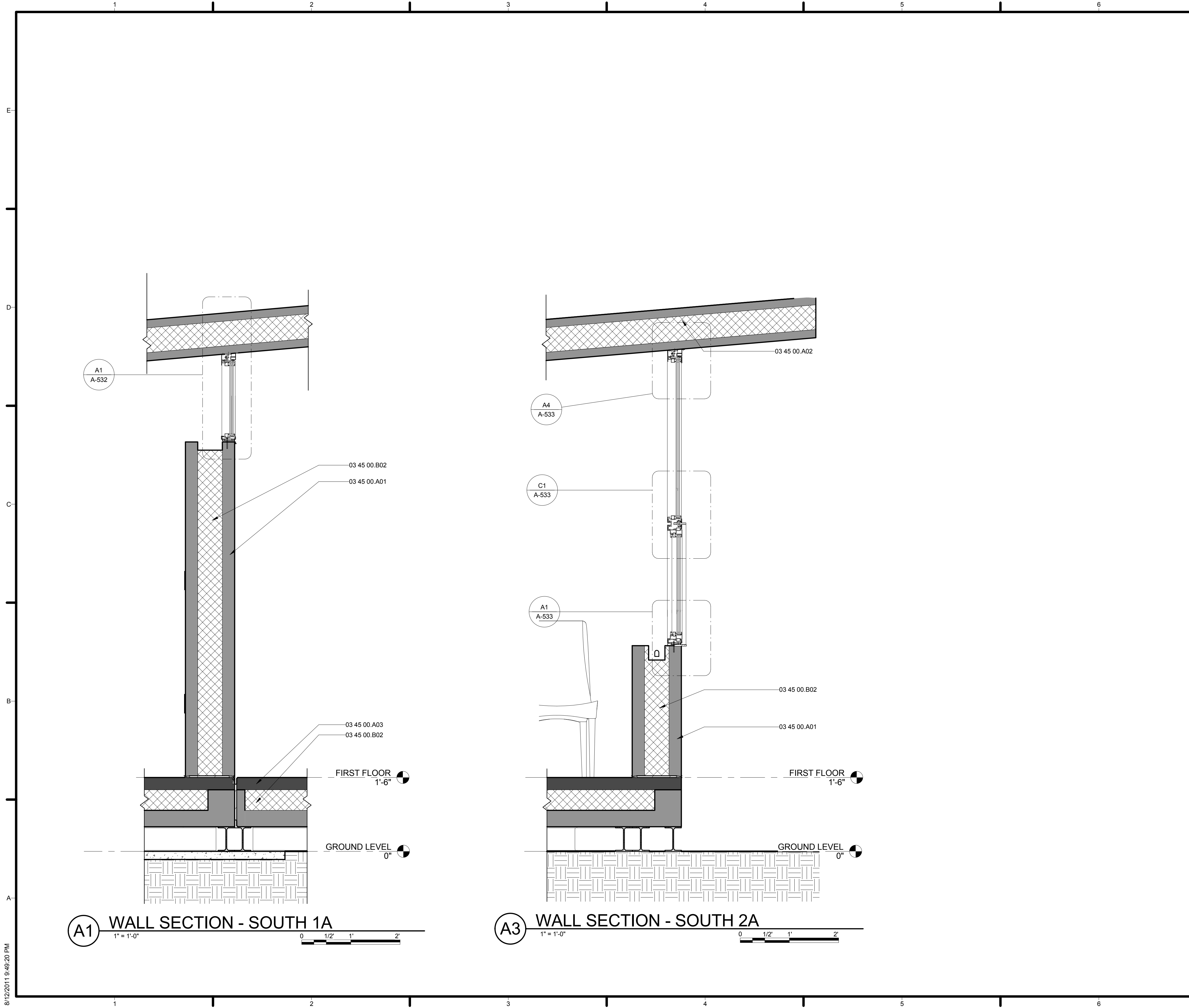
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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SHEET TITLE  
**WALL SECTIONS**

**A-311**

8/12/2011 9:49:16 PM



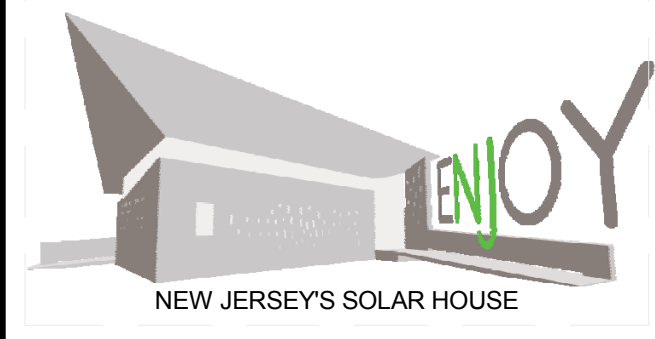


GENERAL SHEET NOTES

REFERENCE KEYNOTES

- 03 45 00.A01 PIP WALL ASSEMBLY
- 03 45 00.A02 PIP ROOF ASSEMBLY
- 03 45 00.A03 PIP FLOOR ASSEMBLY
- 03 45 00.A04 PRECAST CONCRETE COLUMN
- 03 45 00.B02 NEOPOR EPS INSULATION

SHEET KEYNOTES



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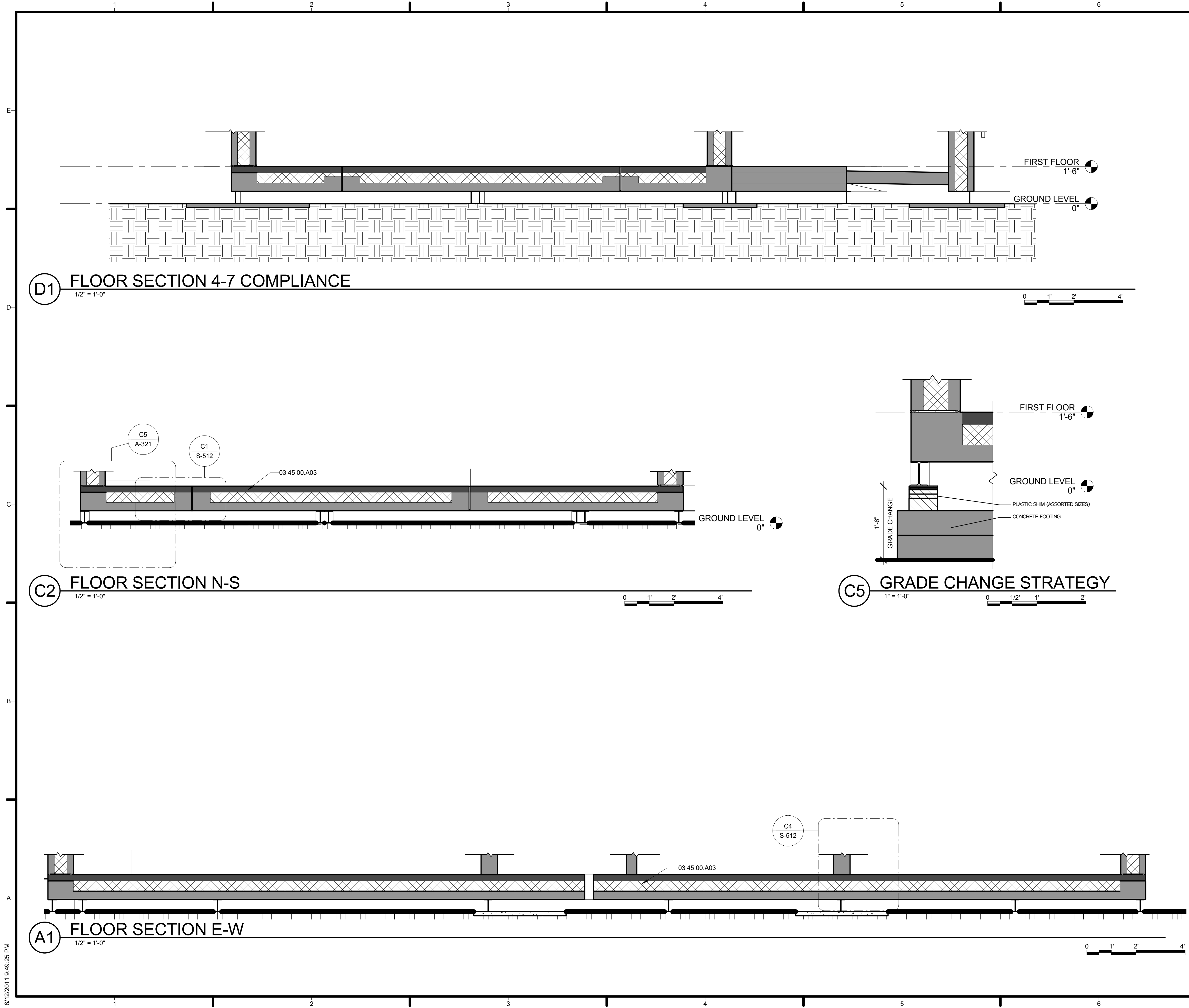
MARK	DATE	DESCRIPTION
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LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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SHEET TITLE  
**WALL SECTIONS**

**A-312**

8/12/2011 9:49:20 PM

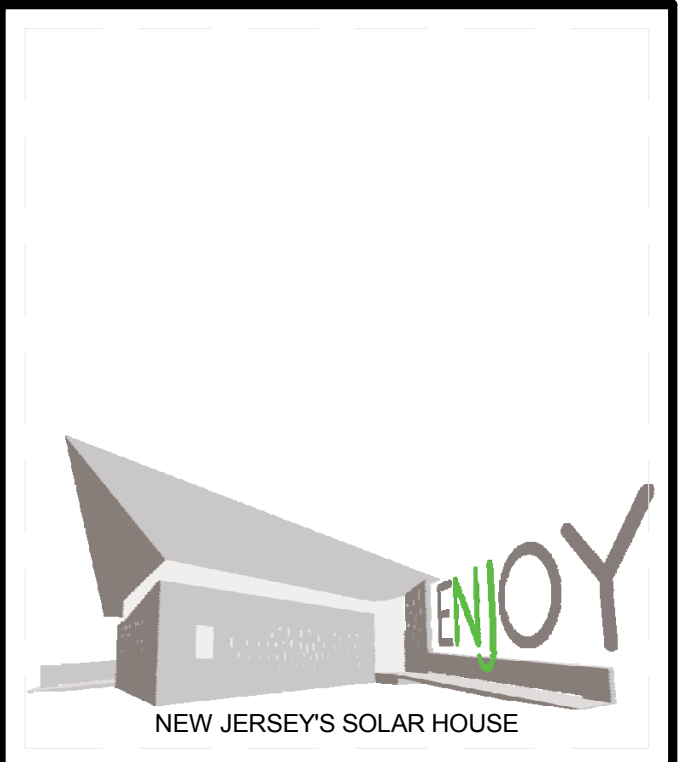


GENERAL SHEET NOTES

REFERENCE KEYNOTES

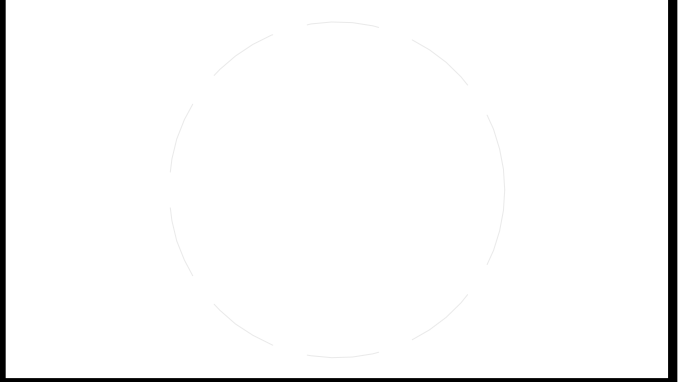
03 45 00.A03 PIP FLOOR ASSEMBLY

SHEET KEYNOTES



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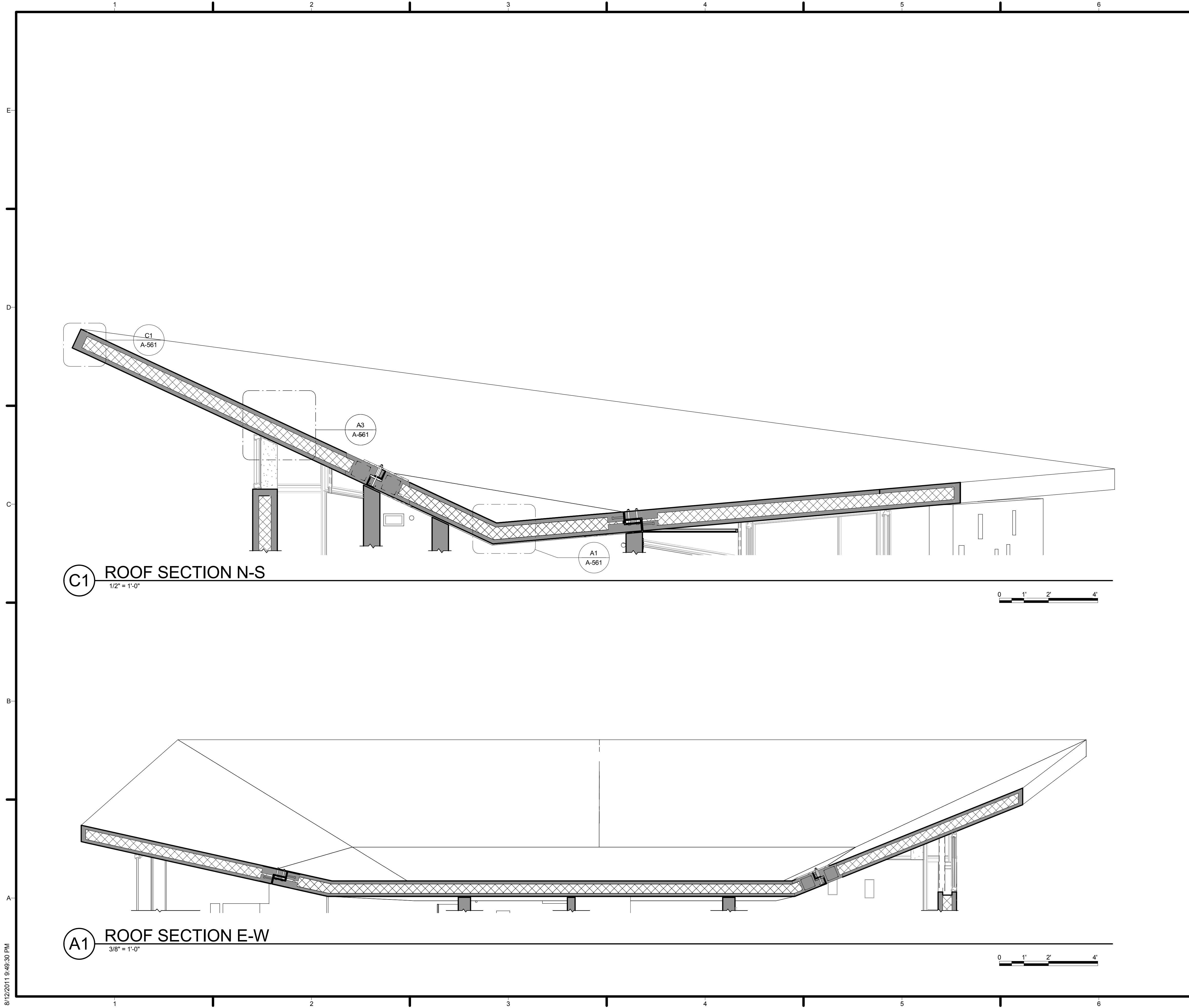
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: CHECKER  
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SHEET TITLE  
**FLOOR SECTIONS**

**A-321**

8/12/2011 9:49:25 PM

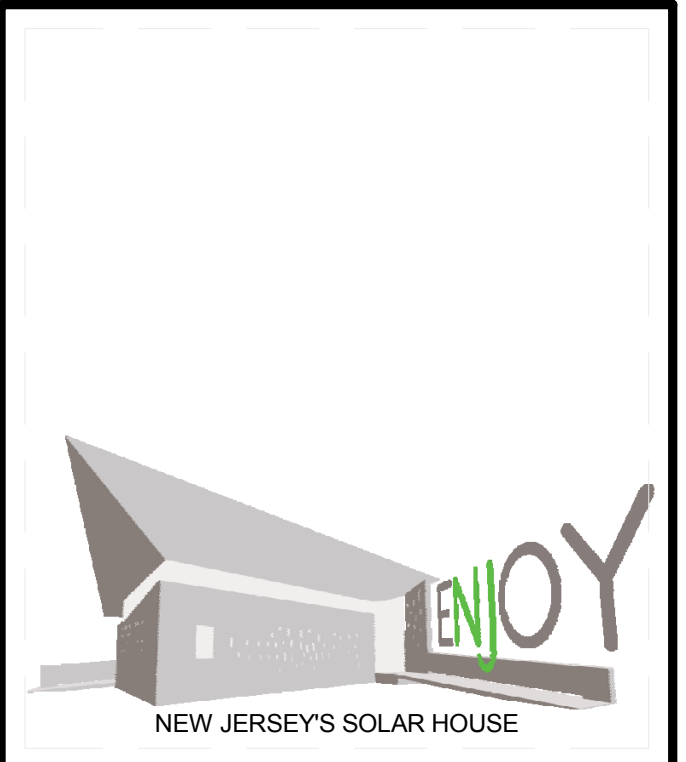




GENERAL SHEET NOTES

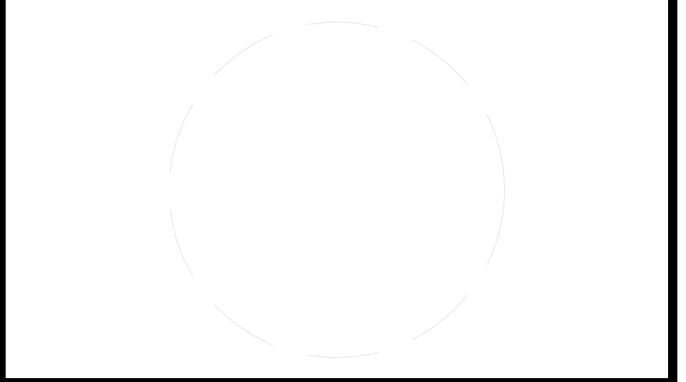
REFERENCE KEYNOTES

SHEET KEYNOTES



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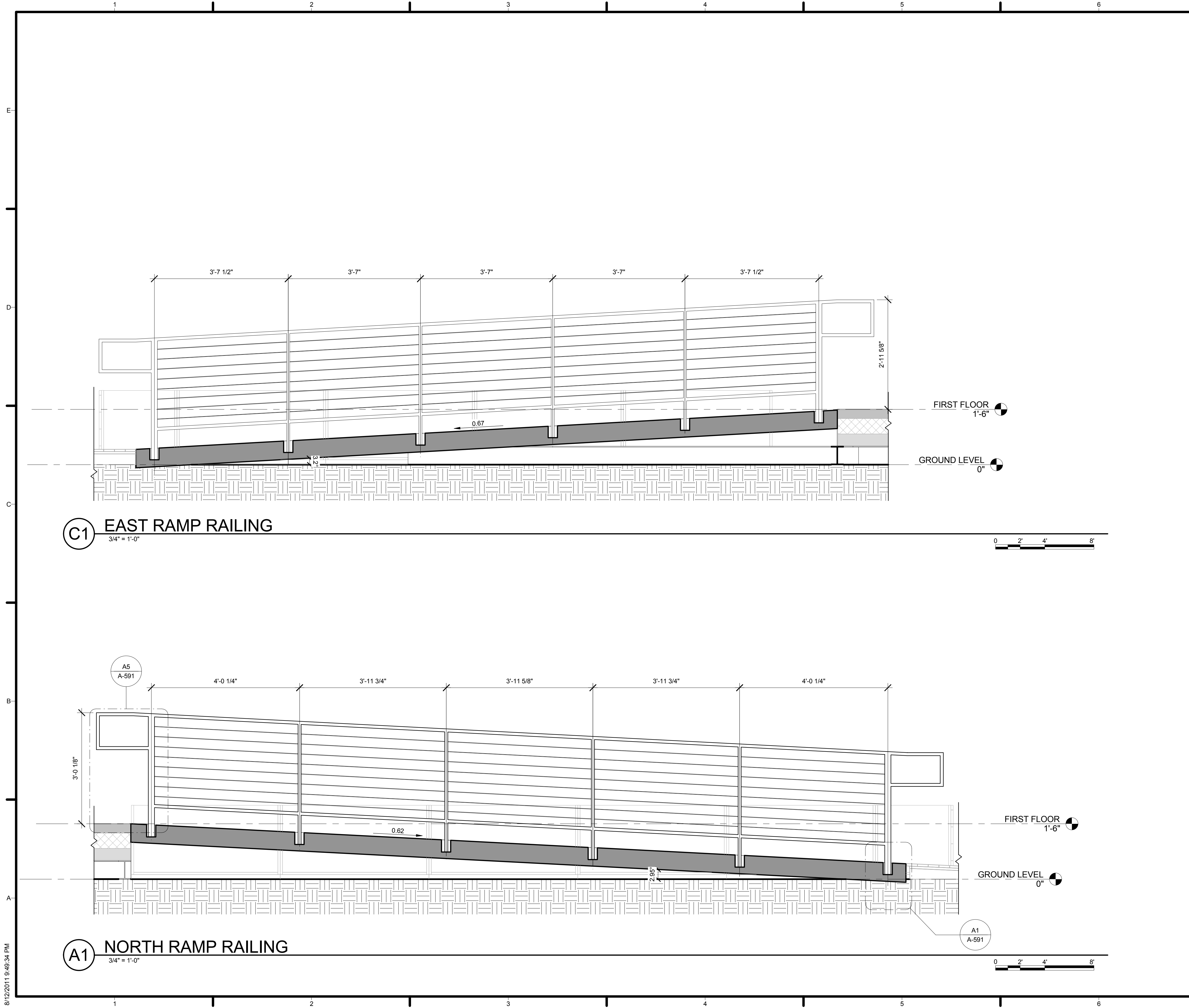
MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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SHEET TITLE  
**ROOF SECTIONS**

**A-322**

8/12/2011 9:49:30 PM



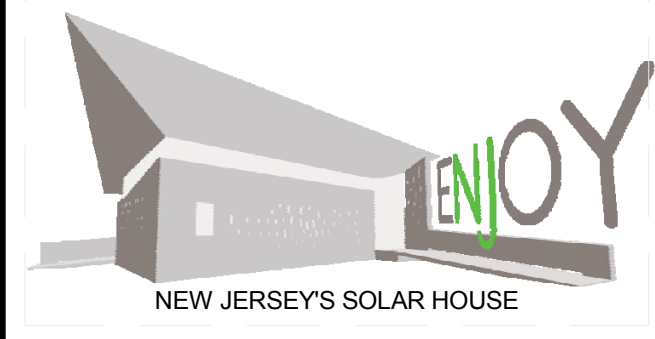
**(C1) EAST RAMP RAILING**  
3/4" = 1'-0"

**(A1) NORTH RAMP RAILING**  
3/4" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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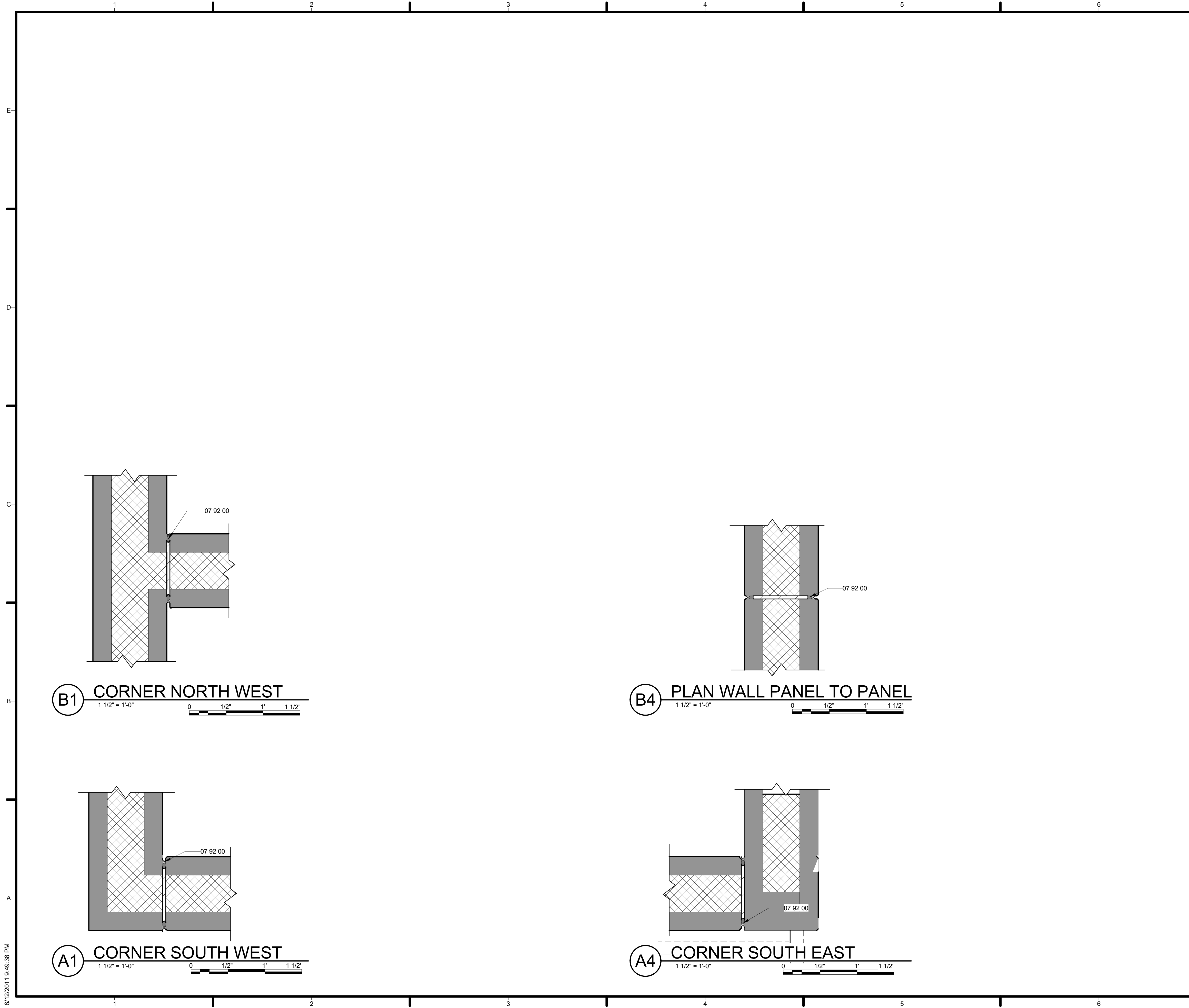
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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 COPYRIGHT: NONE; PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
**RAILING SECTIONS**

**A-331**

8/12/2011 9:49:34 PM



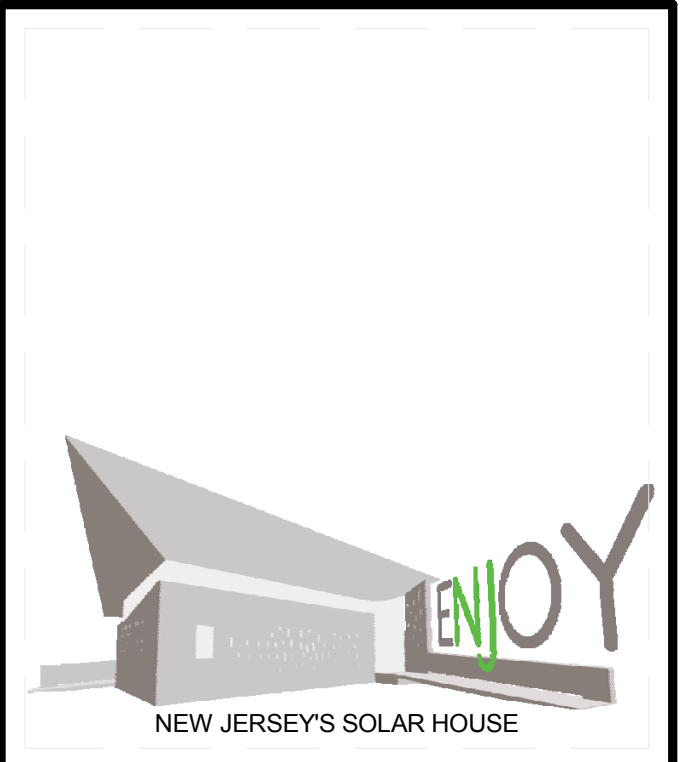


GENERAL SHEET NOTES

REFERENCE KEYNOTES

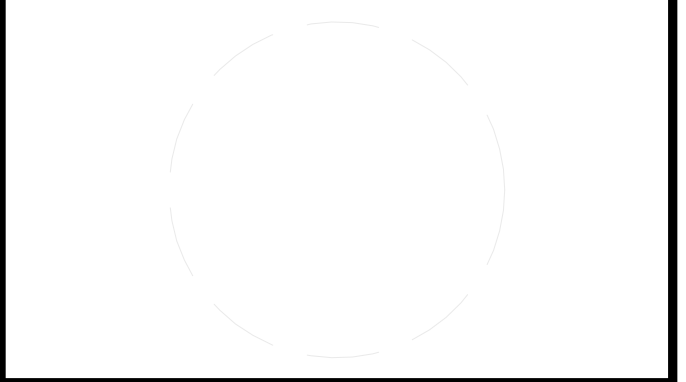
07 92 00 SIKA-FLEX POLYURETHANE JOINT SEALANTS

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LOT NUMBER: LOT 104  
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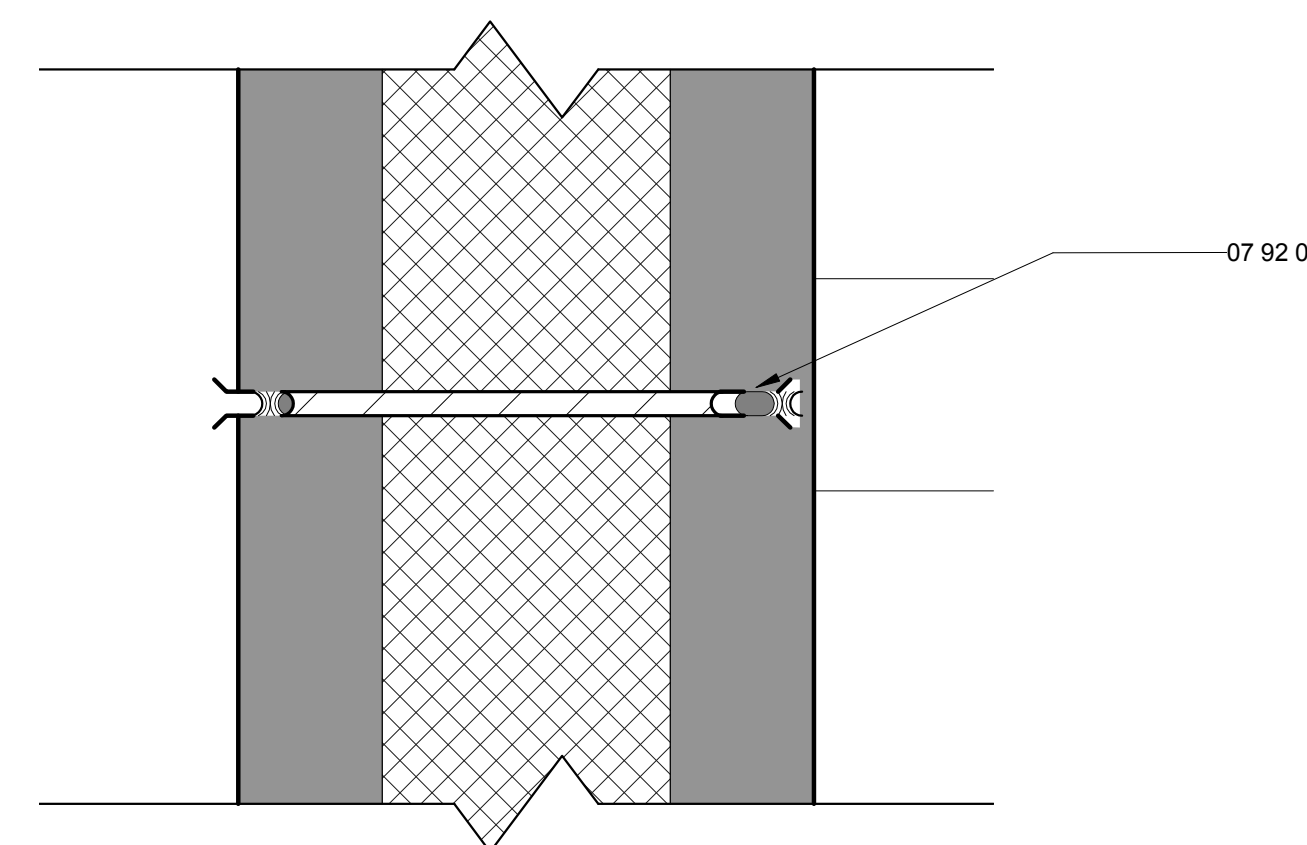
SHEET TITLE  
 PLAN DETAILS

A-501

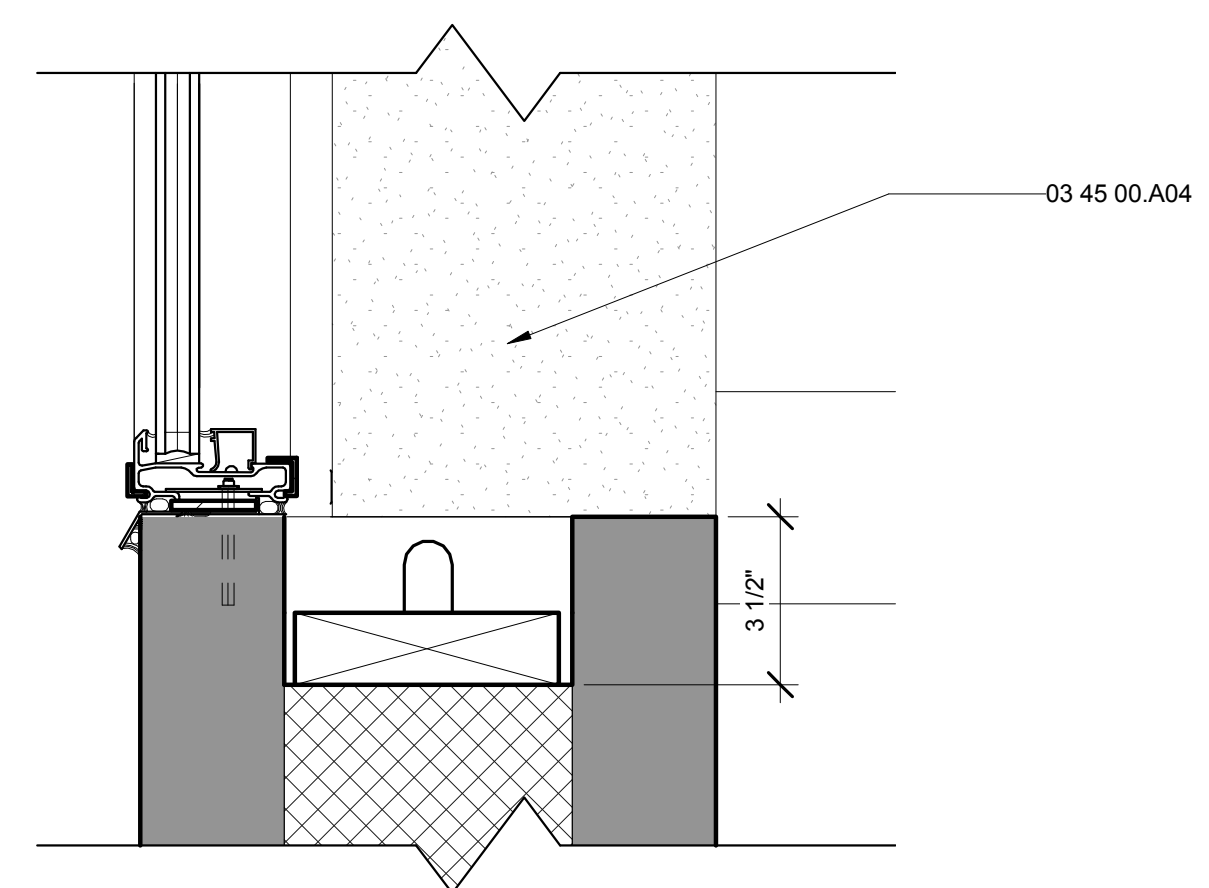
8/12/2011 9:49:38 PM

1 2 3 4 5 6 7

E  
D  
C  
B  
A



**(C1) TYPICAL WALL TO WALL CONNECTION**  
3" = 1'-0"  
0 1/2" 1' 1 1/2"



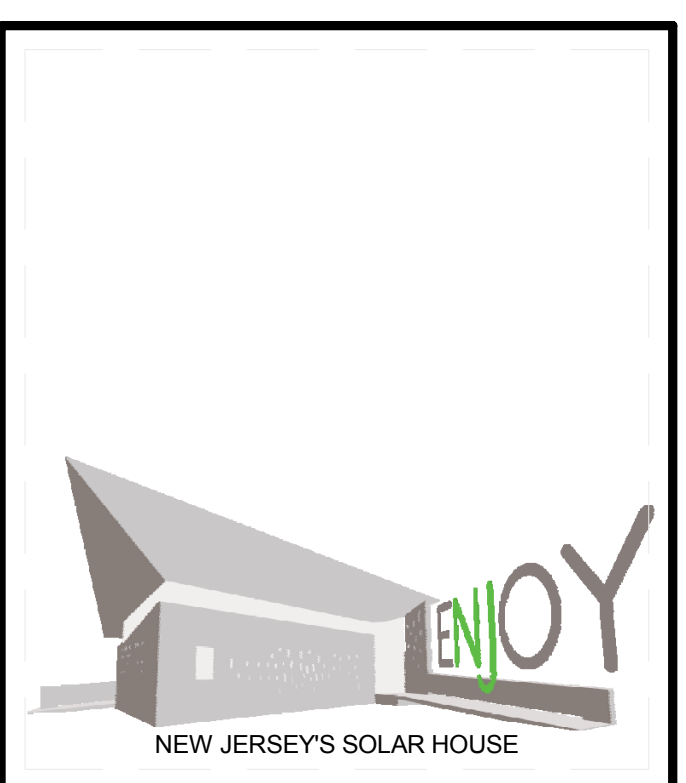
**(A1) TYPICAL TOP WALL WINDOW LEDGE**  
3" = 1'-0"  
0 1/2" 1' 1 1/2"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

03 45 00.A04	PRECAST CONCRETE COLUMN
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS

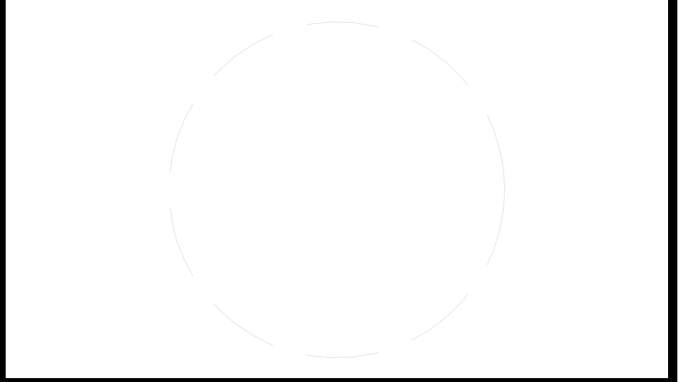
**SHEET KEYNOTES**



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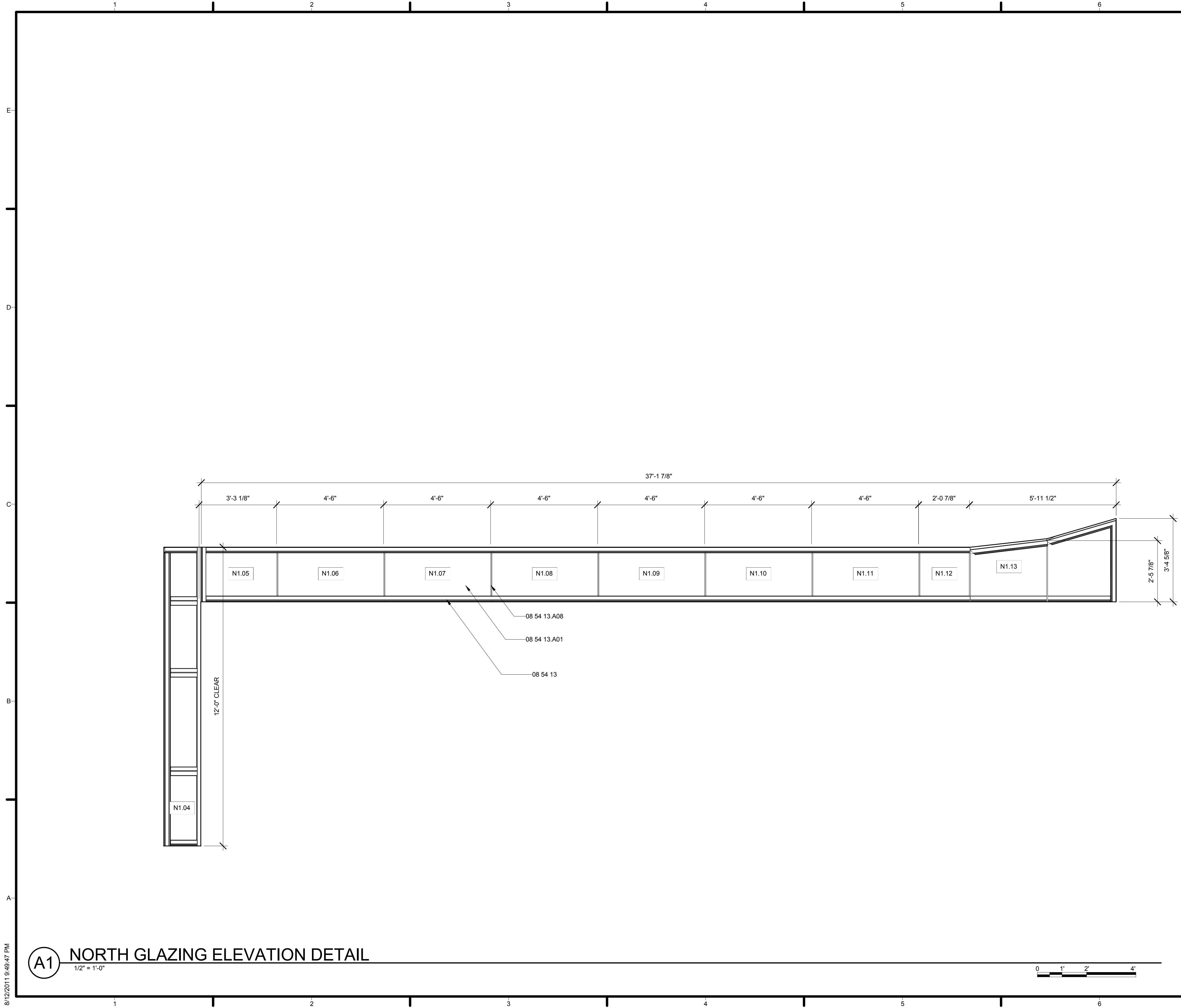
**SHEET TITLE**

**SECTION DETAILS**

**A-511**

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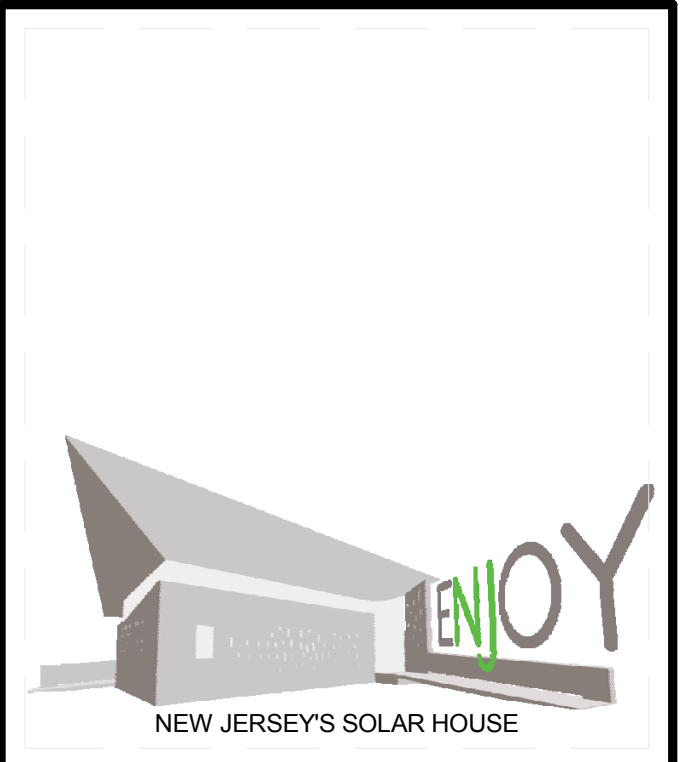


GENERAL SHEET NOTES

REFERENCE KEYNOTES

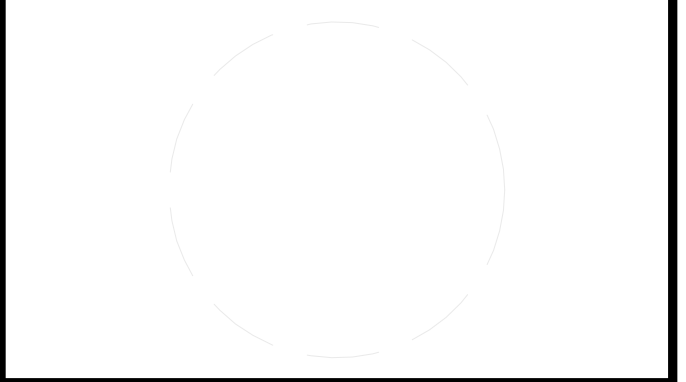
08 54 13 FIBERGLASS WINDOWS  
 08 54 13.A01 SUSPENDED FILM INSULATED GLASS UNIT  
 08 54 13.A08 JOINT SEALANT WITH BACKEROD

SHEET KEYNOTES



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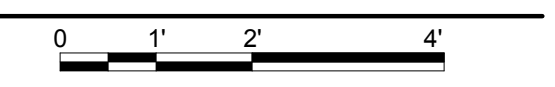
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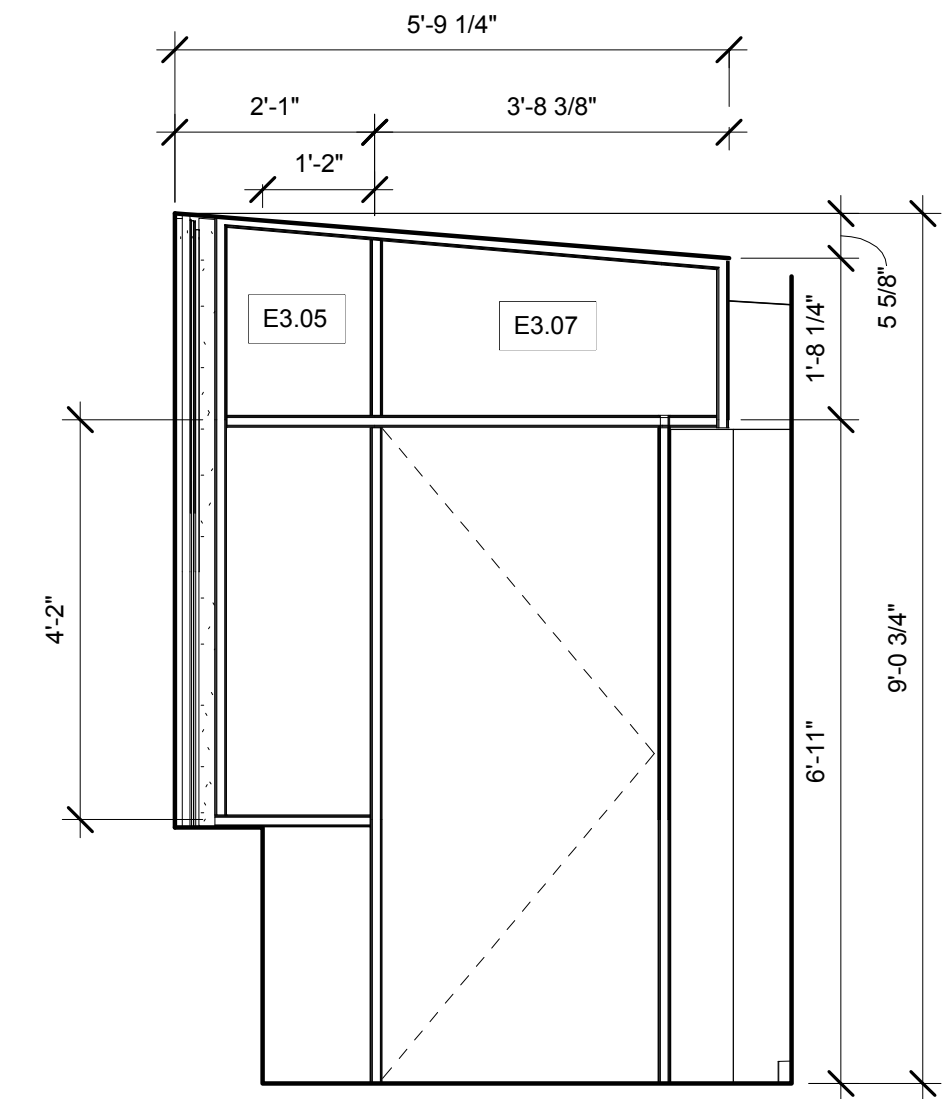
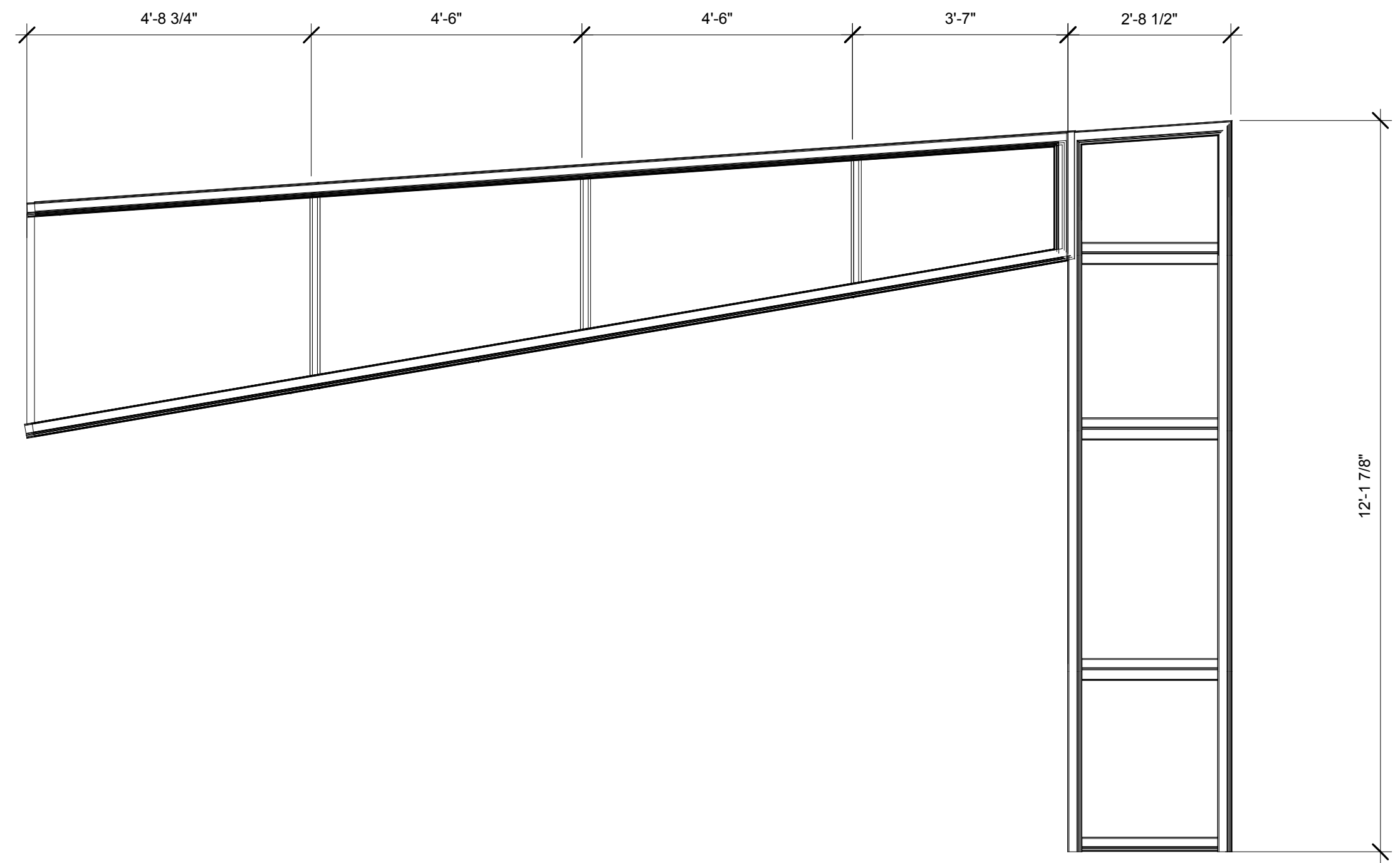
SHEET TITLE  
 ELEVATION DETAILS

A-521

(A1) NORTH GLAZING ELEVATION DETAIL  
 1/2" = 1'-0"

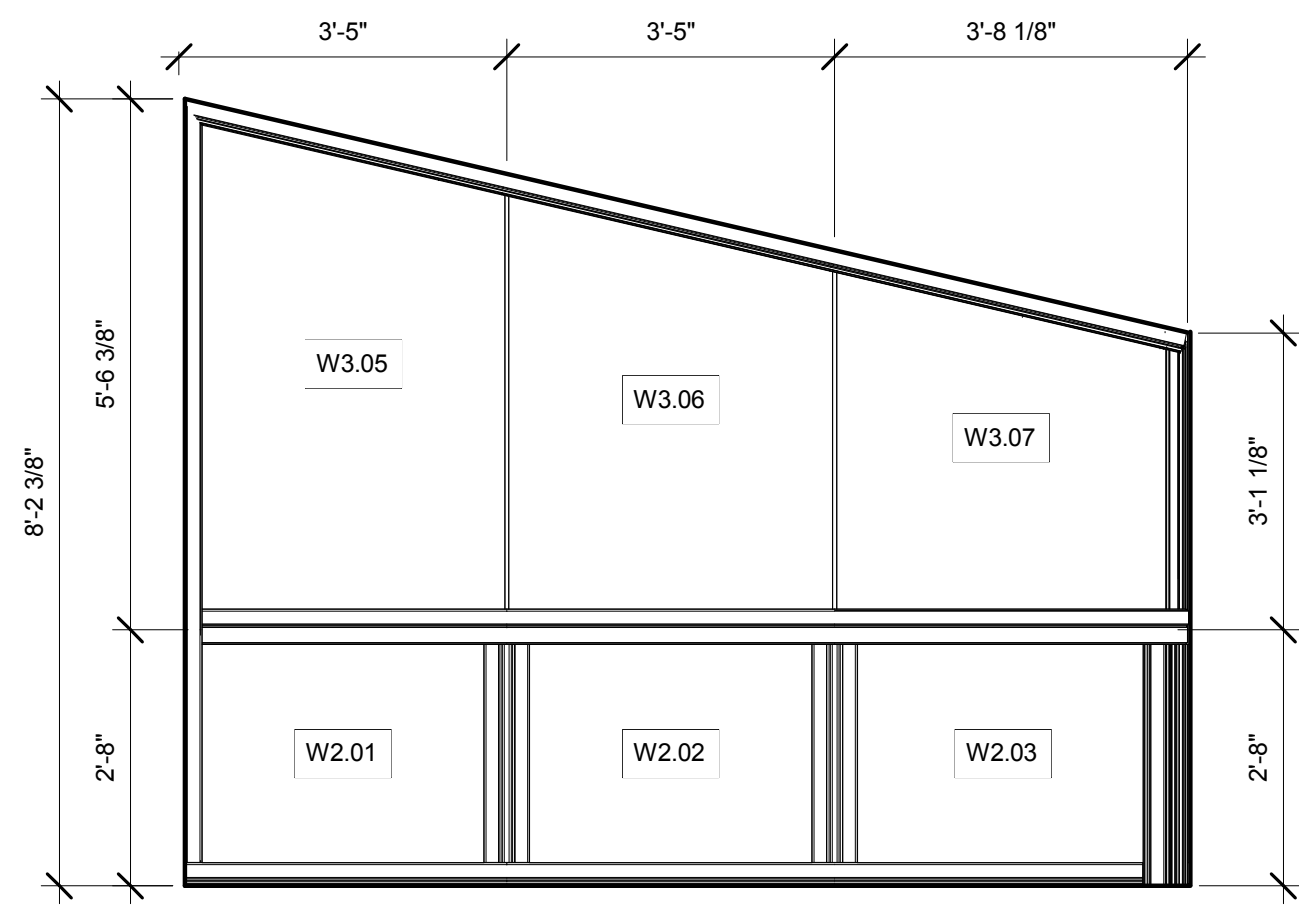


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**C1** EAST GLAZING ELEVATION DETAIL  
1/2" = 1'-0"

**C5** EAST GLAZING ELEVATIONAL DETAIL 2  
1/2" = 1'-0"

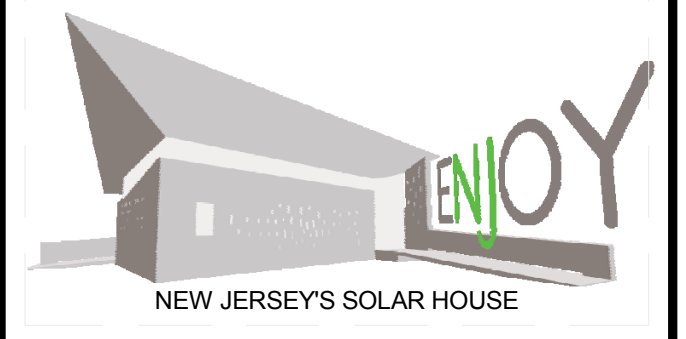


**A1** WEST GLAZING ELEVATION DETAIL  
1/2" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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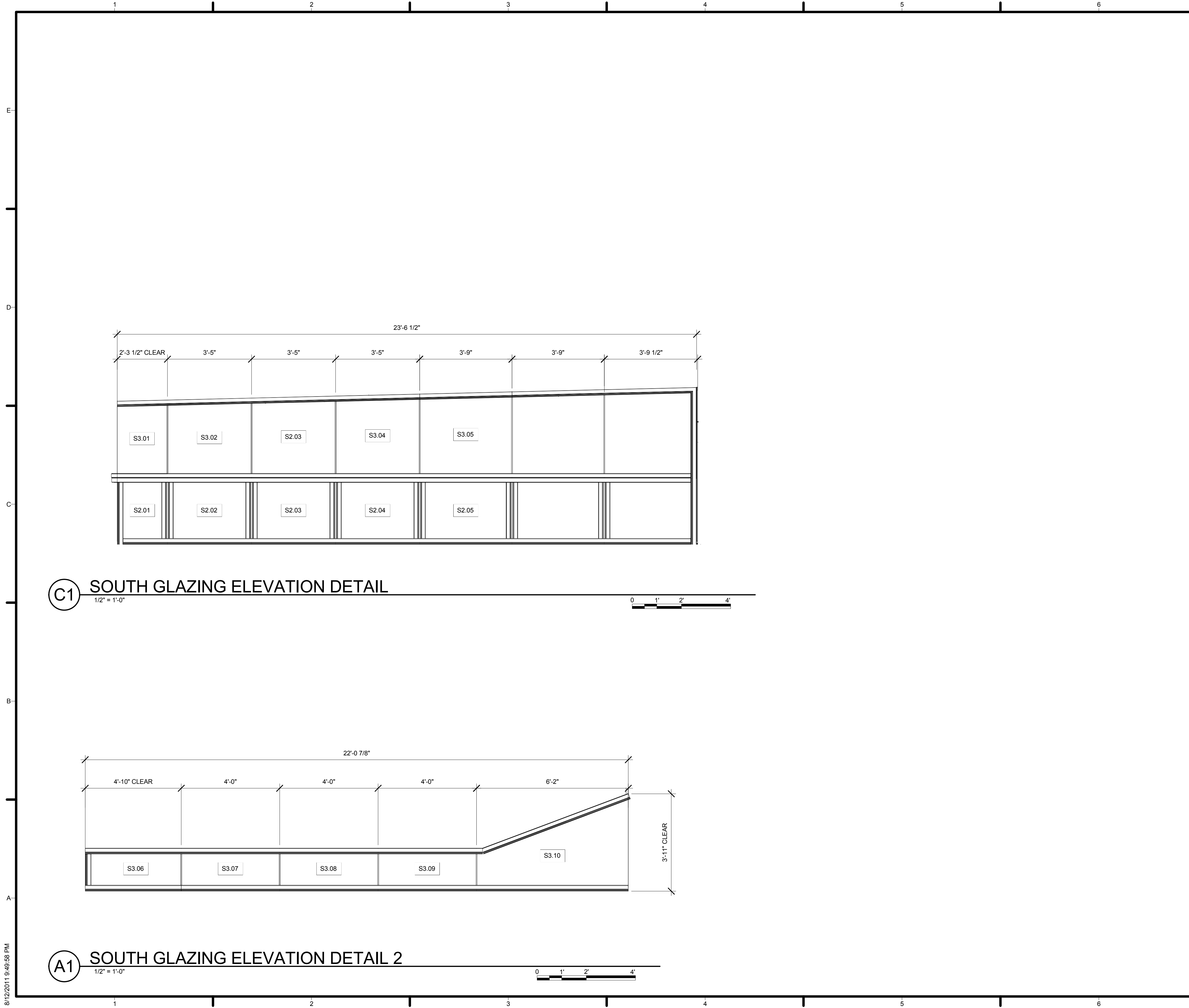
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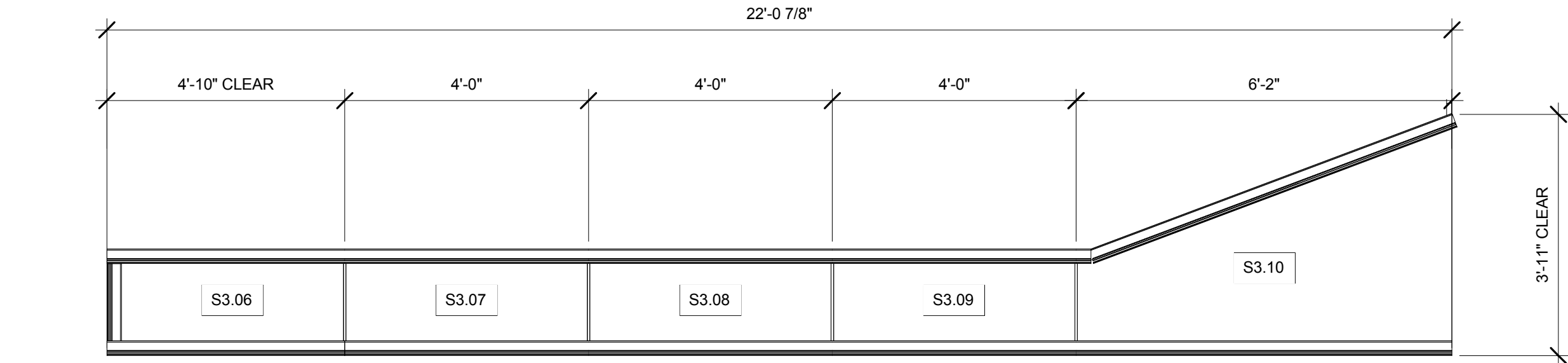
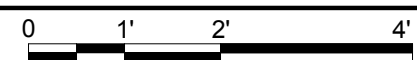
SHEET TITLE  
**ELEVATION DETAILS**

**A-522**

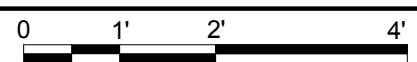




**C1** SOUTH GLAZING ELEVATION DETAIL  
1/2" = 1'-0"



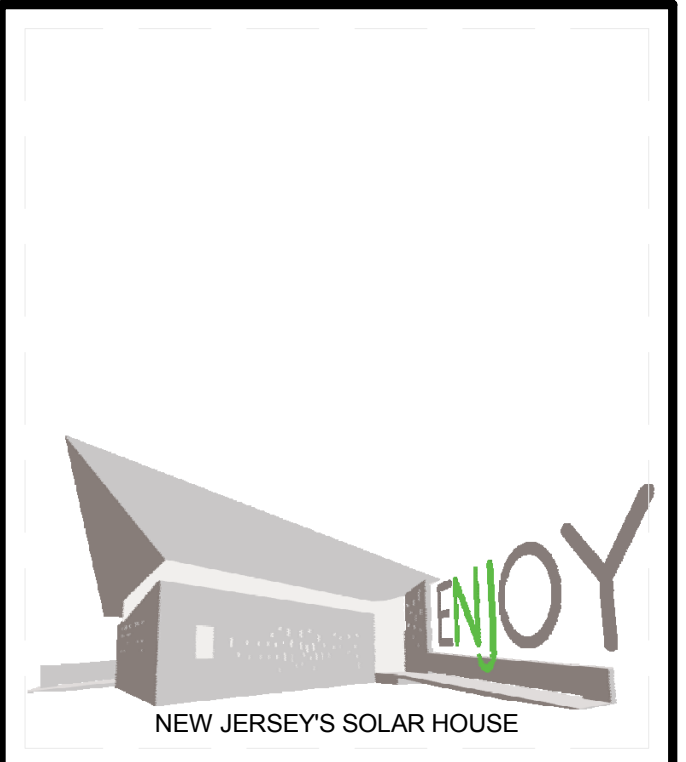
**A1** SOUTH GLAZING ELEVATION DETAIL 2  
1/2" = 1'-0"



**GENERAL SHEET NOTES**

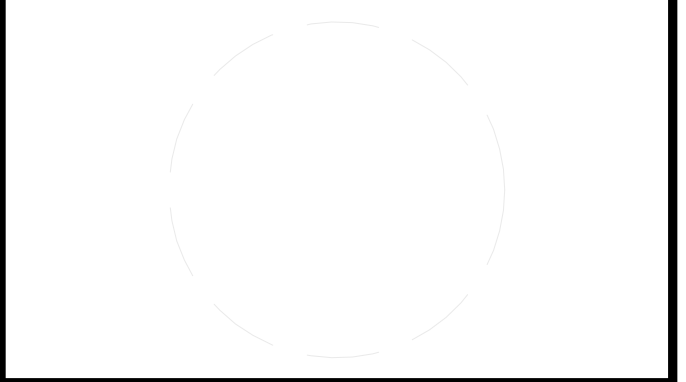
**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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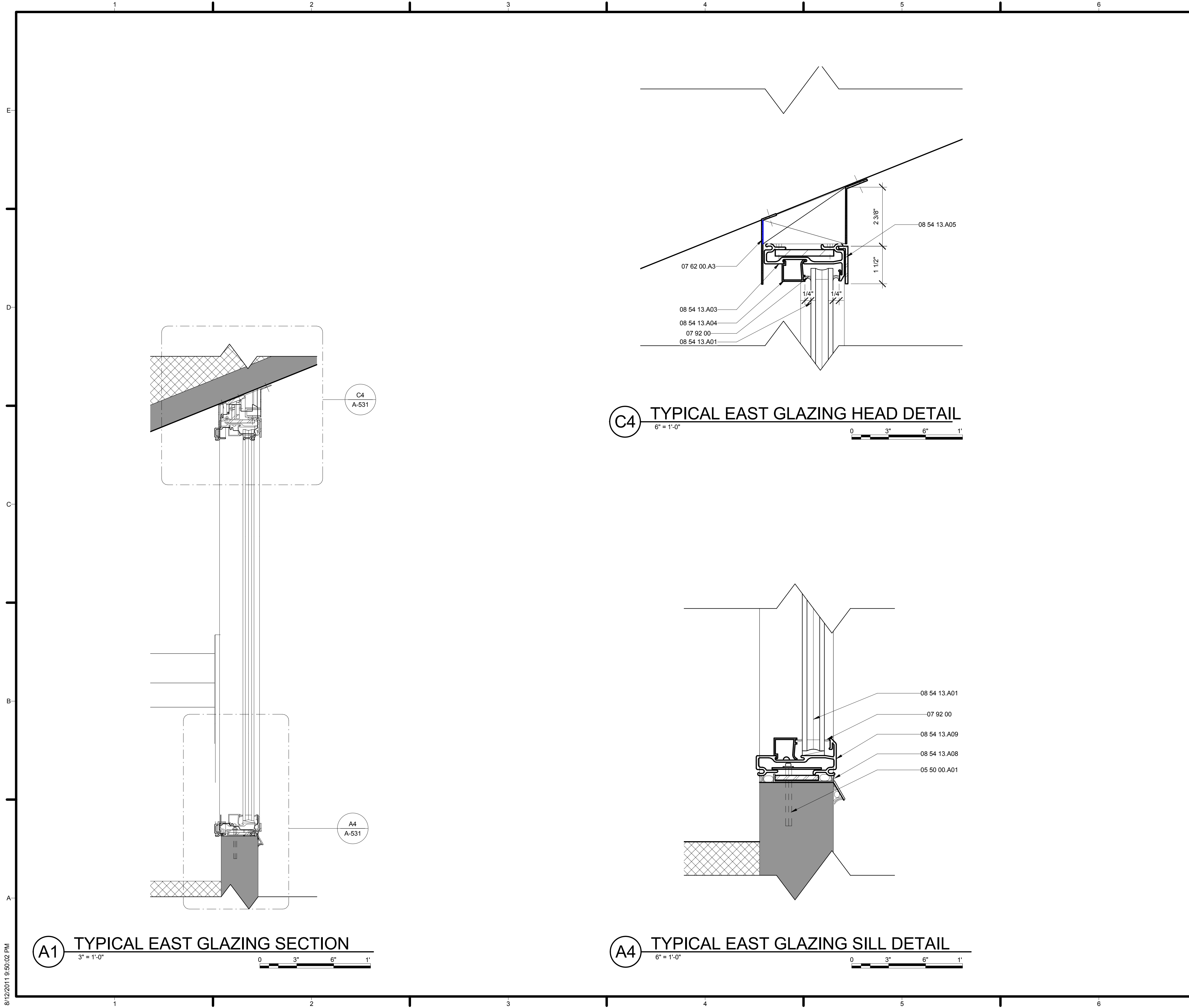
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**ELEVATION DETAILS**

**A-523**

8/12/2011 9:49:58 PM



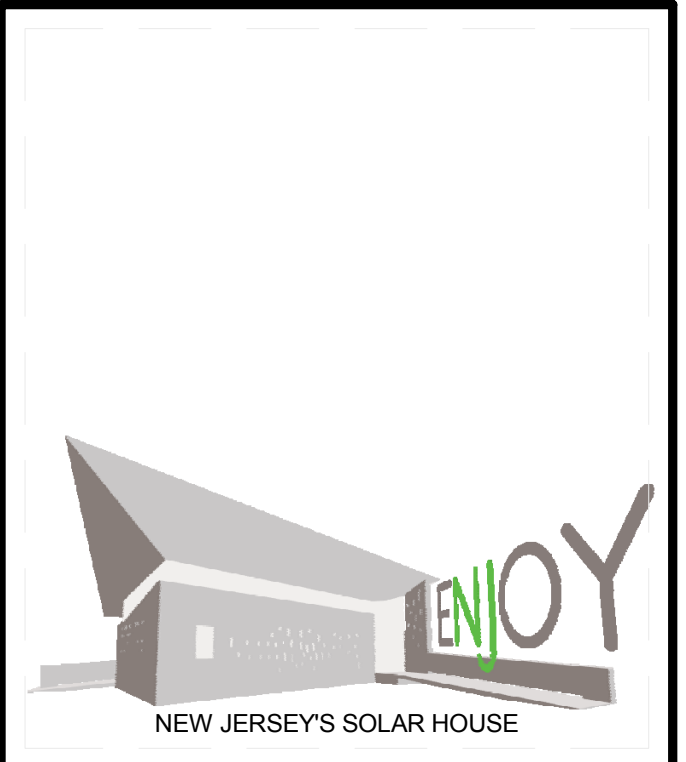
**GENERAL SHEET NOTES**

1. WINDOW HEAD ASSEMBLY INCORPORATES A SLOTTED CONNECTION IN ORDER TO ACCOMMODATE THE DEFLECTION IN THE ROOF.
2. SETTING BLOCK IS DISCONTINUOUS AND LOCATED AT THE QUARTER POINTS OF THE WINDOW.

**REFERENCE KEYNOTES**

05 50 00.A01	EXPANSION BOLT
07 62 00.A3	STAINLESS STEEL FLASHING
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS
08 54 13.A01	SUSPENDED FILM INSULATED GLASS UNIT
08 54 13.A03	LOW PROFILE FIBERGLASS MULLION
08 54 13.A04	SNAP CAP
08 54 13.A05	TRIM CAP
08 54 13.A08	JOINT SEALANT WITH BACKEROD
08 54 13.A09	AWNING FIBERGLASS MULLION

**SHEET KEYNOTES**



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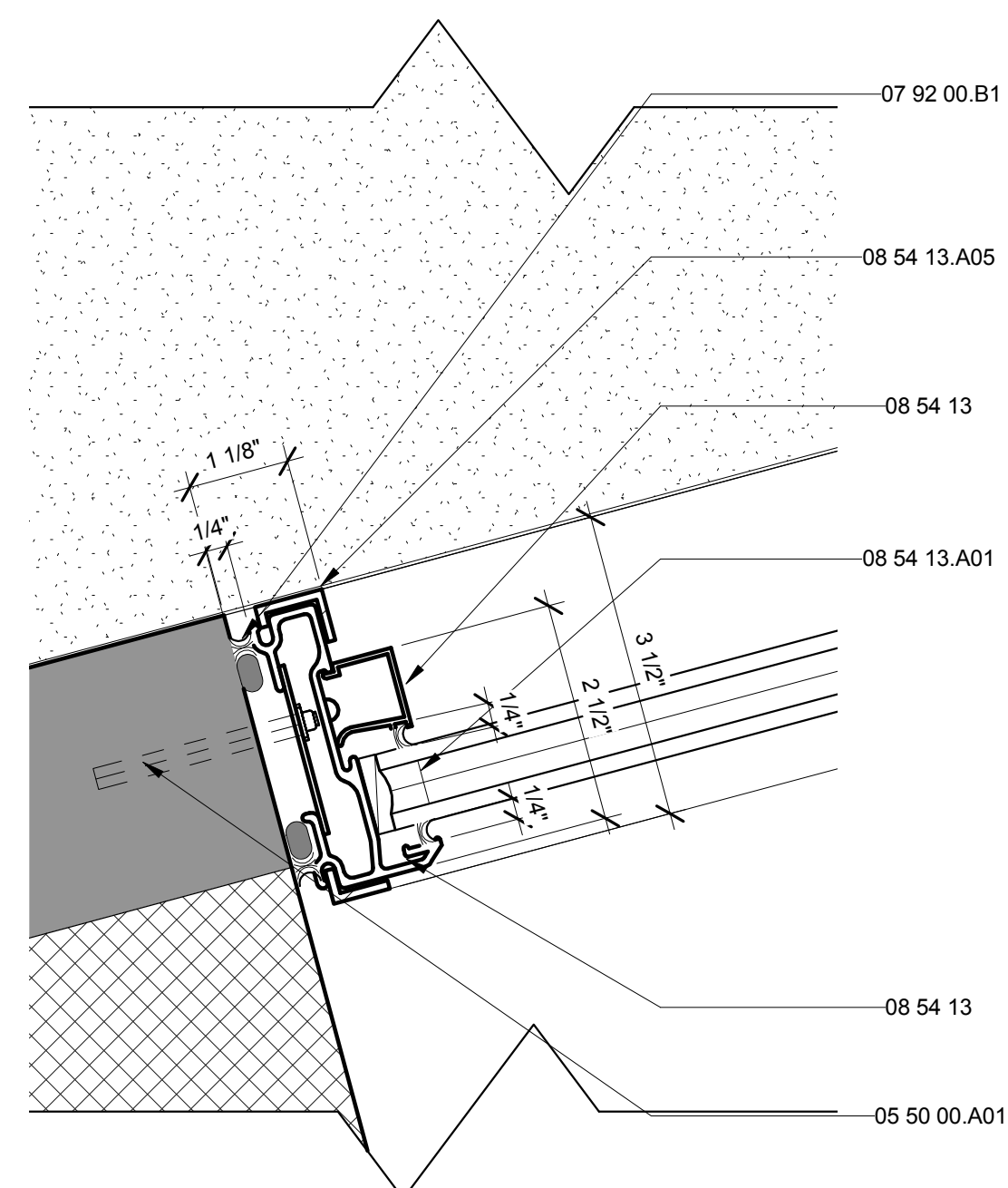
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SHEET TITLE  
**WINDOW DETAILS**

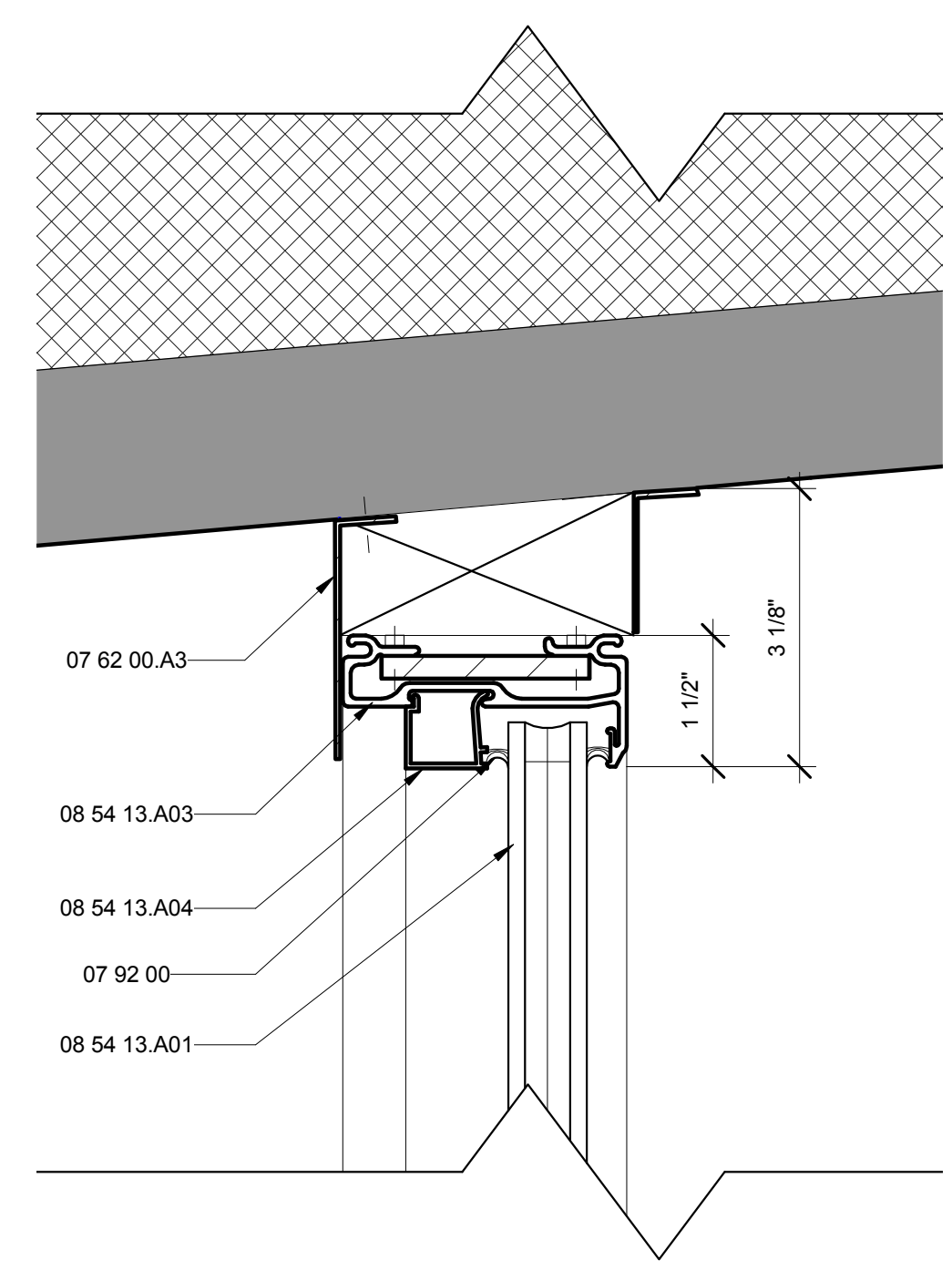
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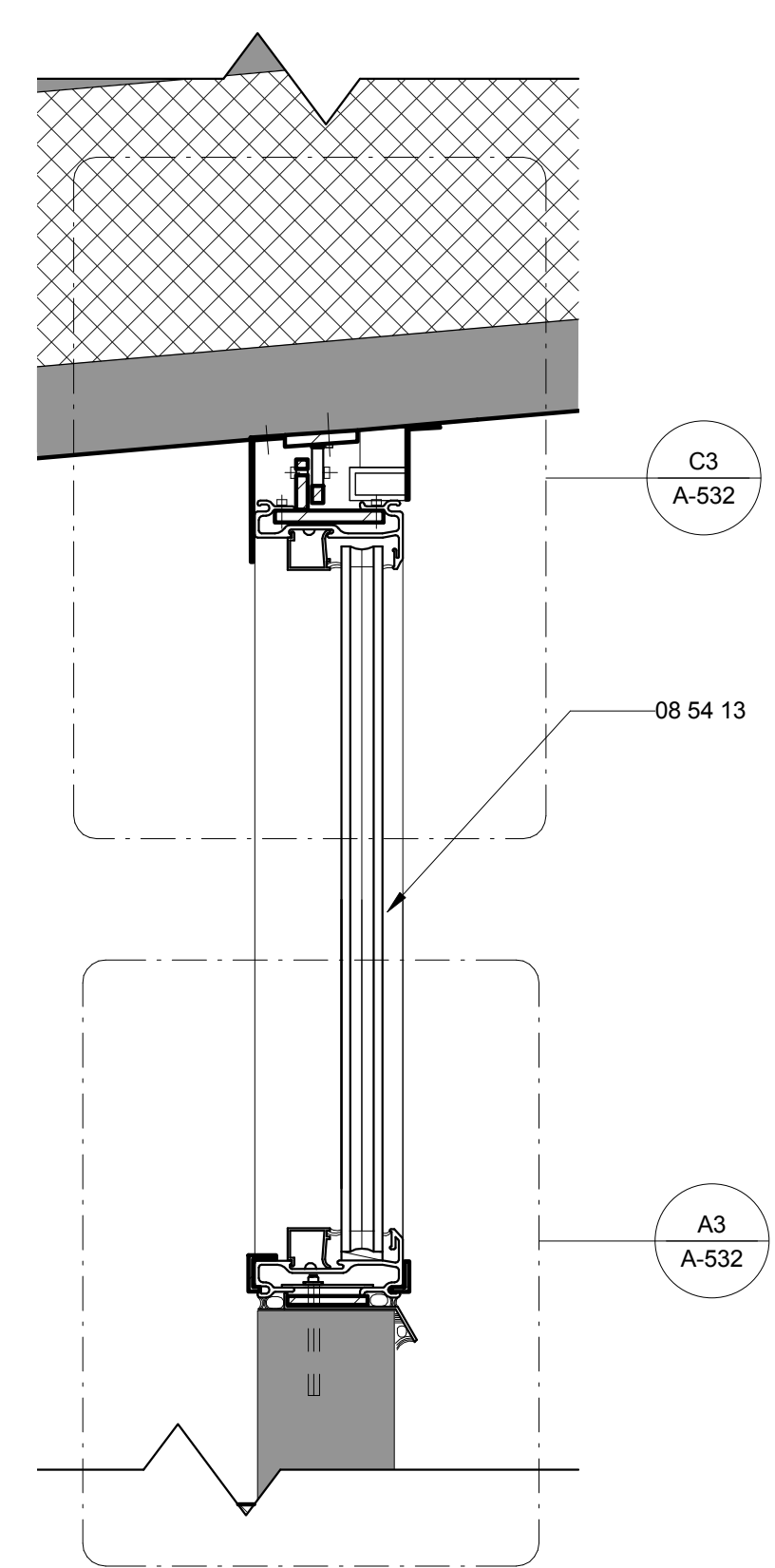




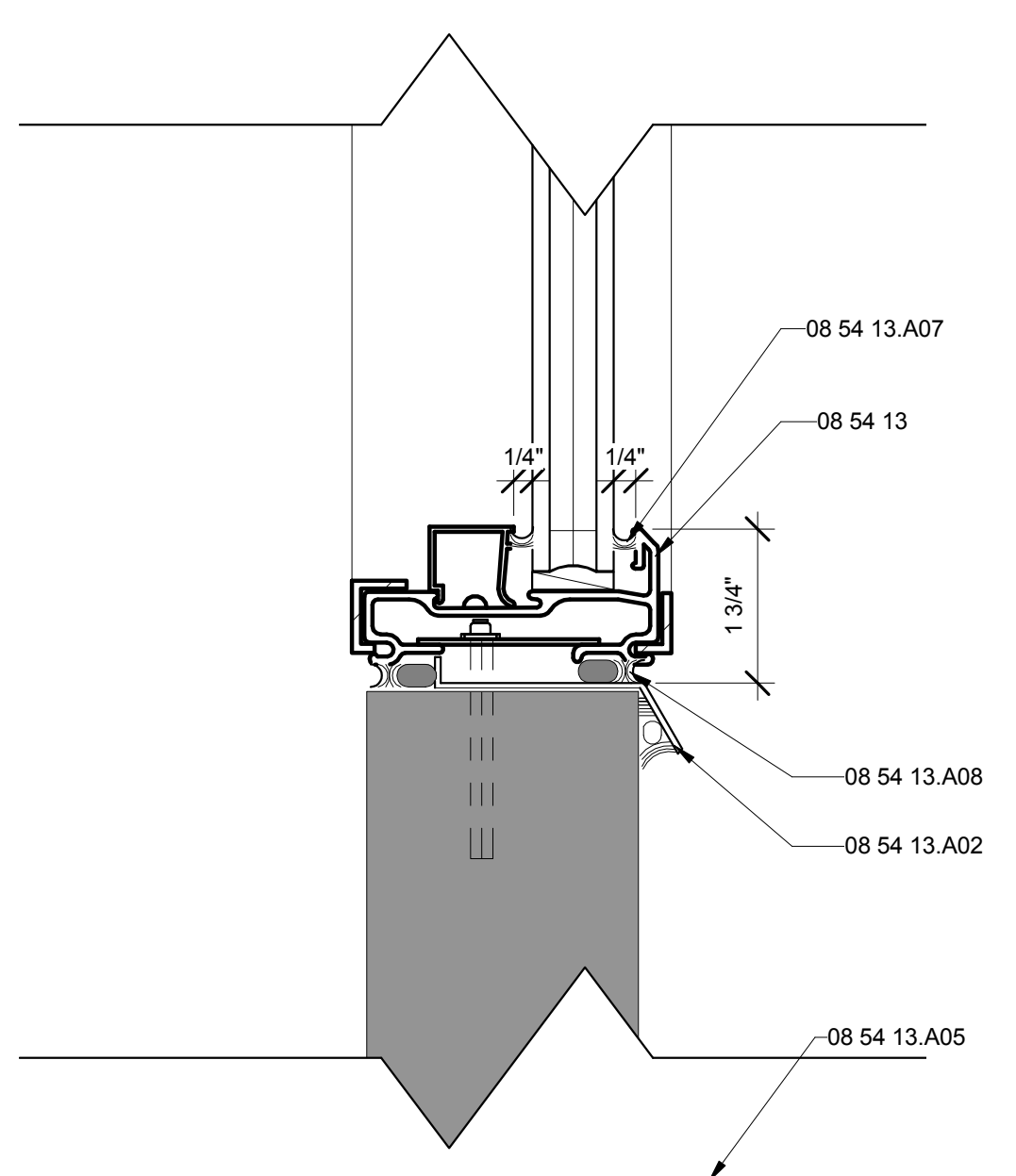
**C1** WINDOW TO CONCRETE PLAN DETAIL  
6" = 1'-0" 0 3" 6" 1"



**C3** TYPICAL SOUTH BEDROOM GLAZING HEAD DETAIL  
6" = 1'-0" 0 3" 6" 1"



**A1** TYPICAL SOUTH BEDROOM GLAZING SECTION  
3" = 1'-0" 0 3" 6" 1"



**A3** TYPICAL SOUTH BEDROOM GLAZING SILL DETAIL  
6" = 1'-0" 0 3" 6" 1"

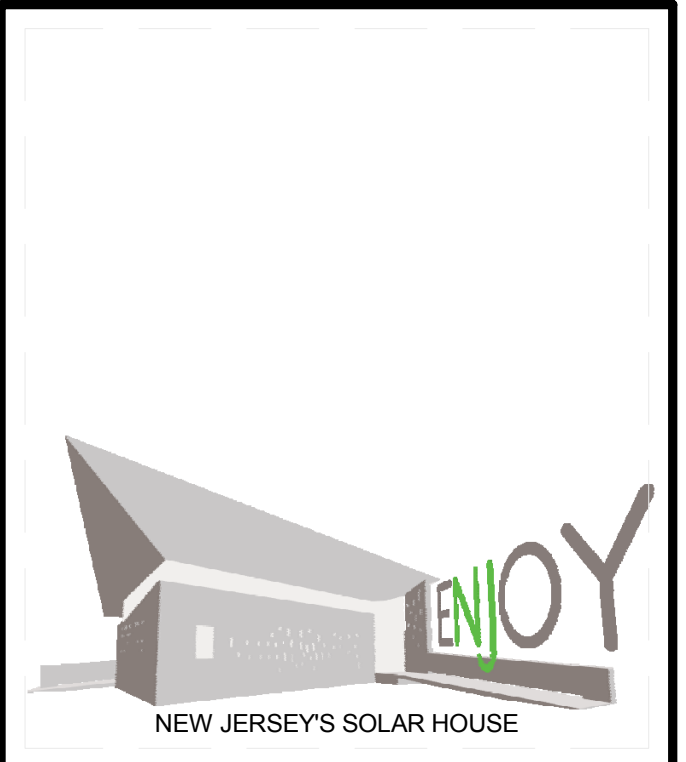
**GENERAL SHEET NOTES**

1. WINDOW HEAD ASSEMBLY INCORPORATES A SLOTTED CONNECTION IN ORDER TO ACCOMMODATE THE DEFLECTION IN THE ROOF.
2. SETTING BLOCK IS DISCONTINUOUS AND LOCATED AT THE QUARTER POINTS OF THE WINDOW.

**REFERENCE KEYNOTES**

05 50 00.A01	EXPANSION BOLT
07 62 00.A3	STAINLESS STEEL FLASHING
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS
07 92 00.B1	BACKER ROD
08 54 13	FIBERGLASS WINDOWS
08 54 13.A01	SUSPENDED FILM INSULATED GLASS UNIT
08 54 13.A02	SHEET METAL FLASHING
08 54 13.A03	LOW PROFILE FIBERGLASS MULLION
08 54 13.A04	SNAP CAP
08 54 13.A05	TRIM CAP
08 54 13.A07	JOINT SEALANT
08 54 13.A08	JOINT SEALANT WITH BACKEROD

**SHEET KEYNOTES**



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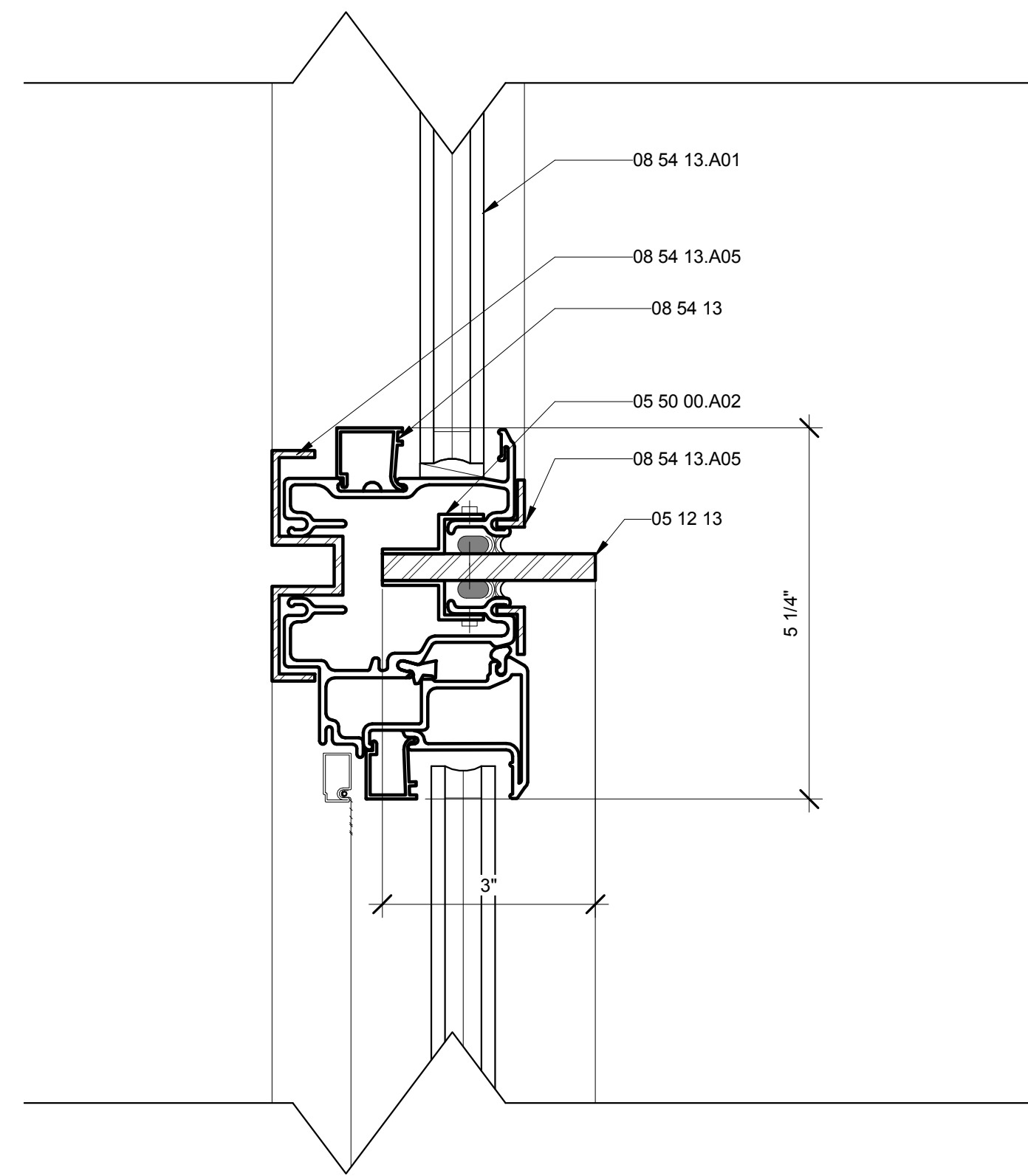


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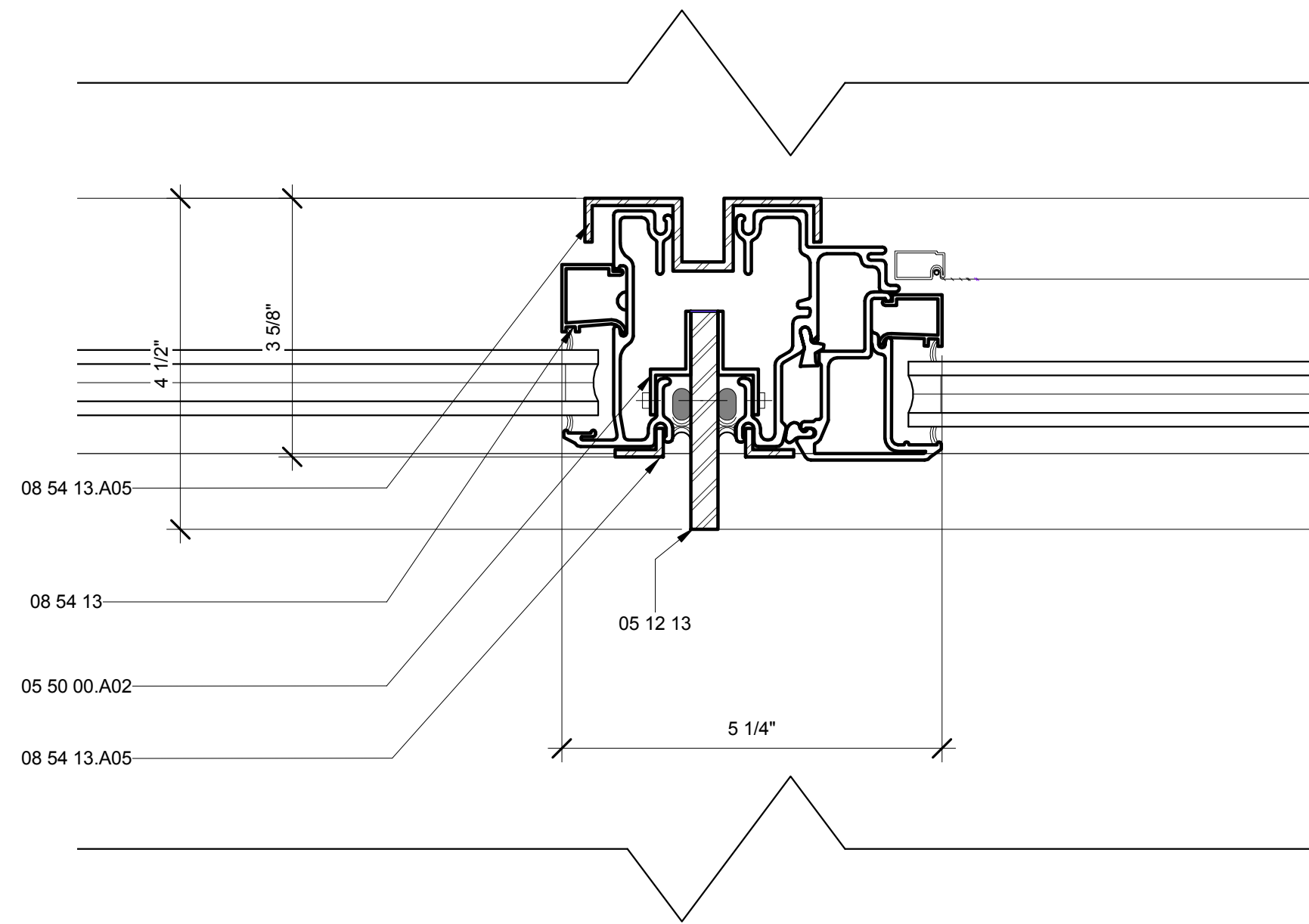
LOT NUMBER: LOT 104  
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SHEET TITLE  
**WINDOW DETAILS**

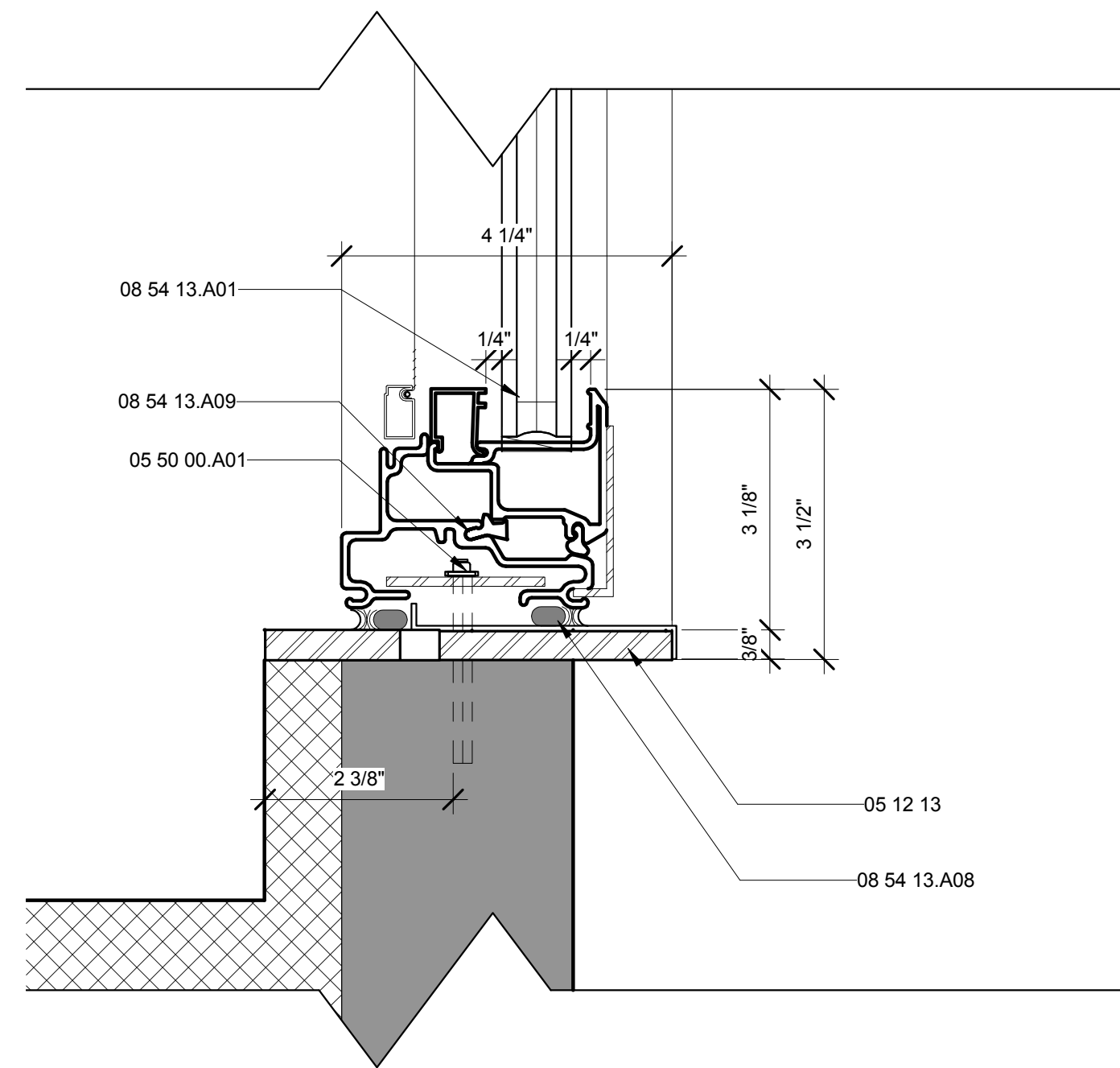
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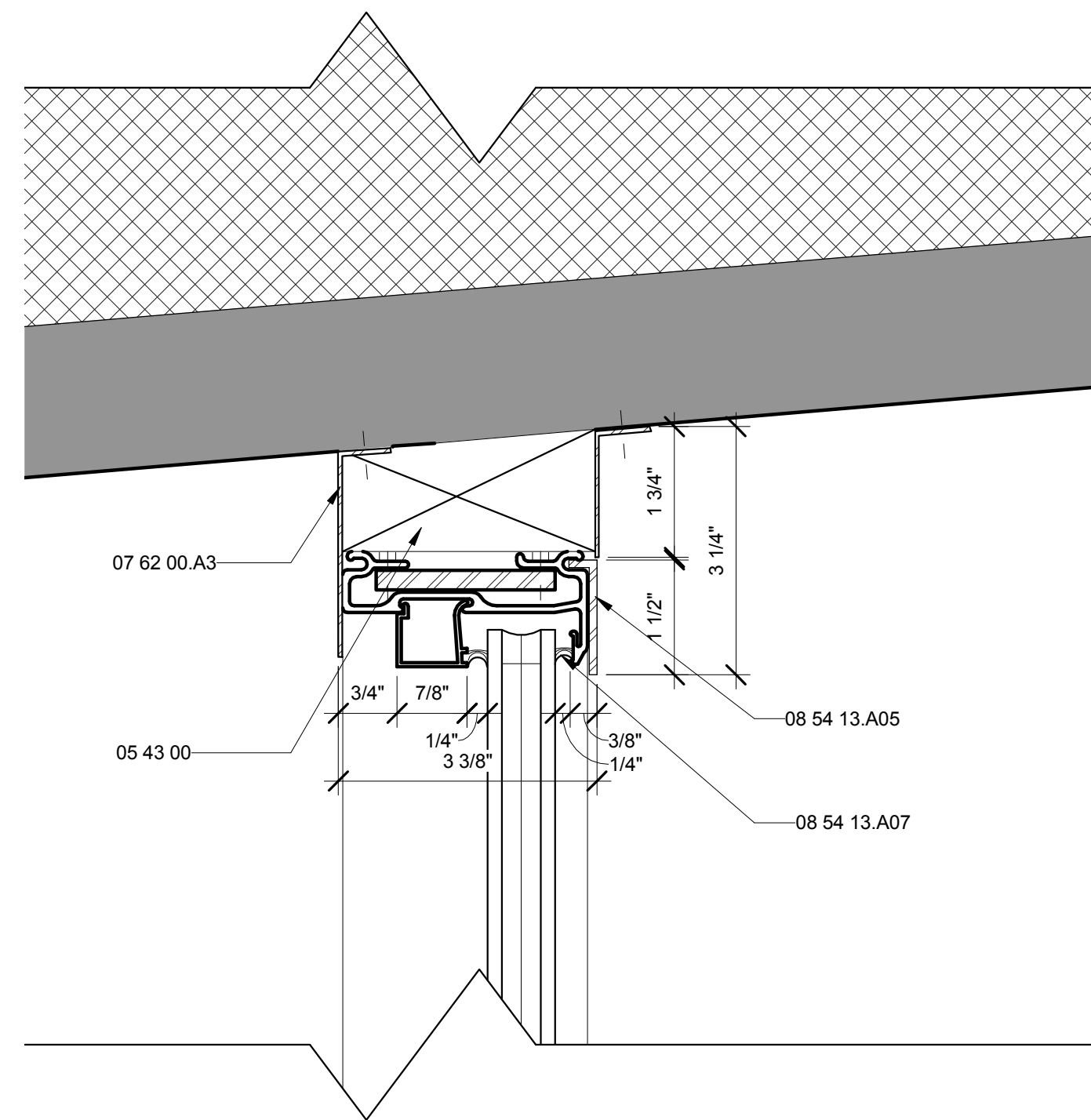
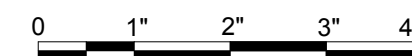
**C1** TYPICAL SOUTH AWNING TO FIXED SECTION  
6" = 1'-0"



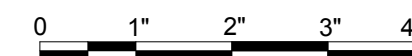
**C4** TYPICAL SOUTH WINDOW PLAN DETAIL  
6" = 1'-0"



**A1** TYPICAL SOUTH AWNING SECTION  
6" = 1'-0"



**A4** TYPICAL SOUTH FIXED SECTION  
6" = 1'-0"



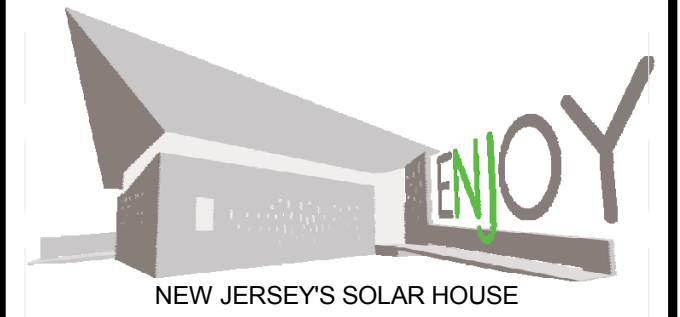
**GENERAL SHEET NOTES**

1. WINDOW HEAD ASSEMBLY INCORPORATES A SLOTTED CONNECTION IN ORDER TO ACCOMMODATE THE DEFLECTION IN THE ROOF.
2. SETTING BLOCK IS DISCONTINUOUS AND LOCATED AT THE QUARTER POINTS OF THE WINDOW.
3. OPERABLE WINDOWS ARE FIXED TO A WELDED STAINLESS STEEL FRAME.
4. STEEL FRAME IS CAPPED IN ORDER TO PREVENT A THERMAL BRIDGE.

**REFERENCE KEYNOTES**

05 12 13	ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL FRAMING
05 43 00	SLOTTED CHANNEL FRAMING
05 50 00.A01	EXPANSION BOLT
05 50 00.A02	METAL BRACKET
07 62 00.A3	STAINLESS STEEL FLASHING
08 54 13	FIBERGLASS WINDOWS
08 54 13.A01	SUSPENDED FILM INSULATED GLASS UNIT
08 54 13.A05	TRIM CAP
08 54 13.A07	JOINT SEALANT
08 54 13.A08	JOINT SEALANT WITH BACKEROD
08 54 13.A09	AWNING FIBERGLASS MULLION

**SHEET KEYNOTES**



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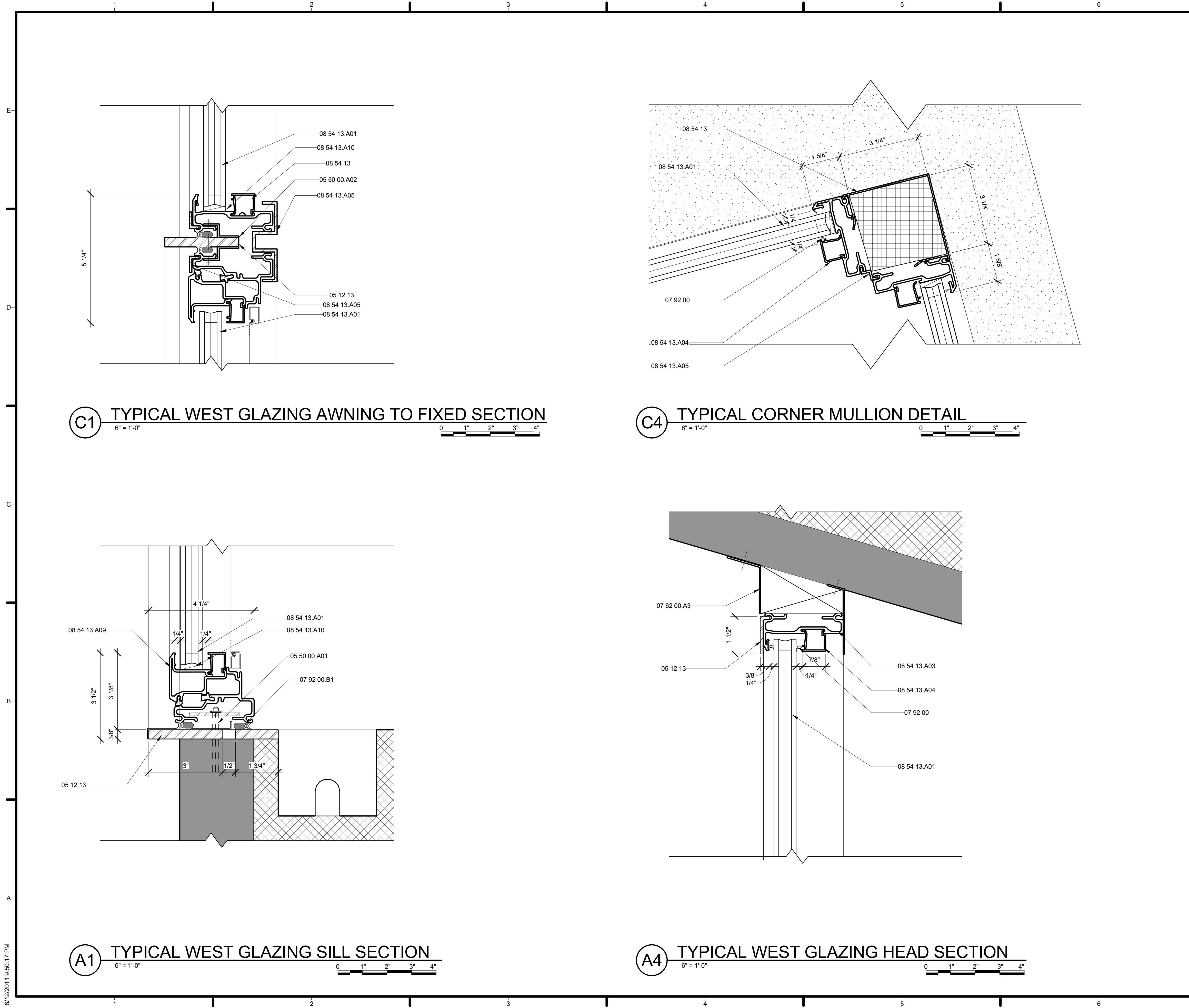
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SHEET TITLE  
**WINDOW DETAILS**

**A-533**





**GENERAL SHEET NOTES**

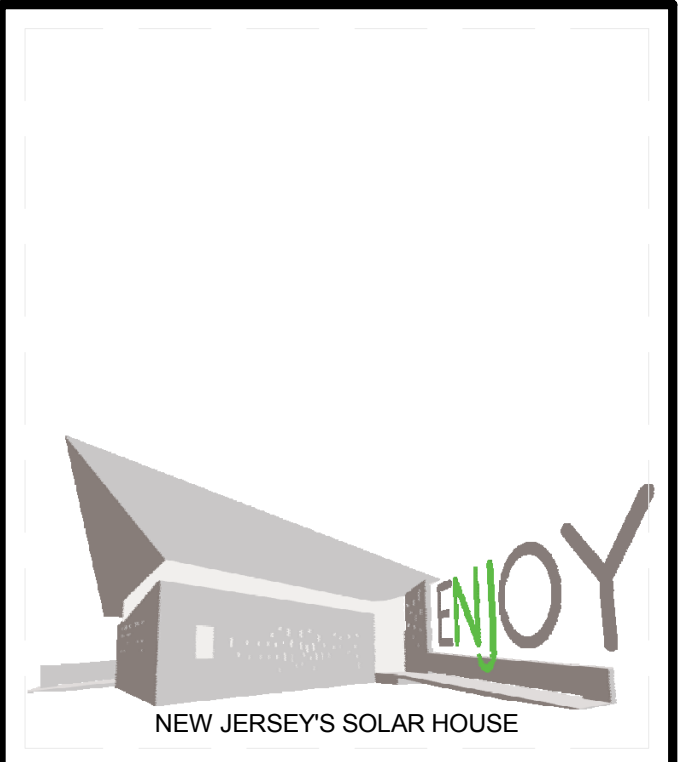
1. WINDOW HEAD ASSEMBLY INCORPORATES A SLOTTED CONNECTION IN ORDER TO ACCOMMODATE THE DEFLECTION IN THE ROOF.
2. SETTING BLOCK IS DISCONTINUOUS AND LOCATED AT THE QUARTER POINTS OF THE WINDOW.
3. OPERABLE WINDOWS ARE FIXED TO A WELDED STAINLESS STEEL FRAME.
4. STEEL FRAME IS CAPPED IN ORDER TO PREVENT A THERMAL BRIDGE.

**REFERENCE KEYNOTES**

05 12 13	ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL FRAMING
05 50 00.A01	EXPANSION BOLT
05 50 00.A02	METAL BRACKET
07 62 00.A3	STAINLESS STEEL FLASHING
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS
07 92 00.B1	BACKER ROD
08 54 13	FIBERGLASS WINDOWS
08 54 13.A01	SUSPENDED FILM INSULATED GLASS UNIT
08 54 13.A03	LOW PROFILE FIBERGLASS MULLION
08 54 13.A04	SNAP CAP
08 54 13.A05	TRIM CAP
08 54 13.A09	AWNING FIBERGLASS MULLION
08 54 13.A10	SETTING BLOCK

**SHEET KEYNOTES**

MARK	DATE	DESCRIPTION
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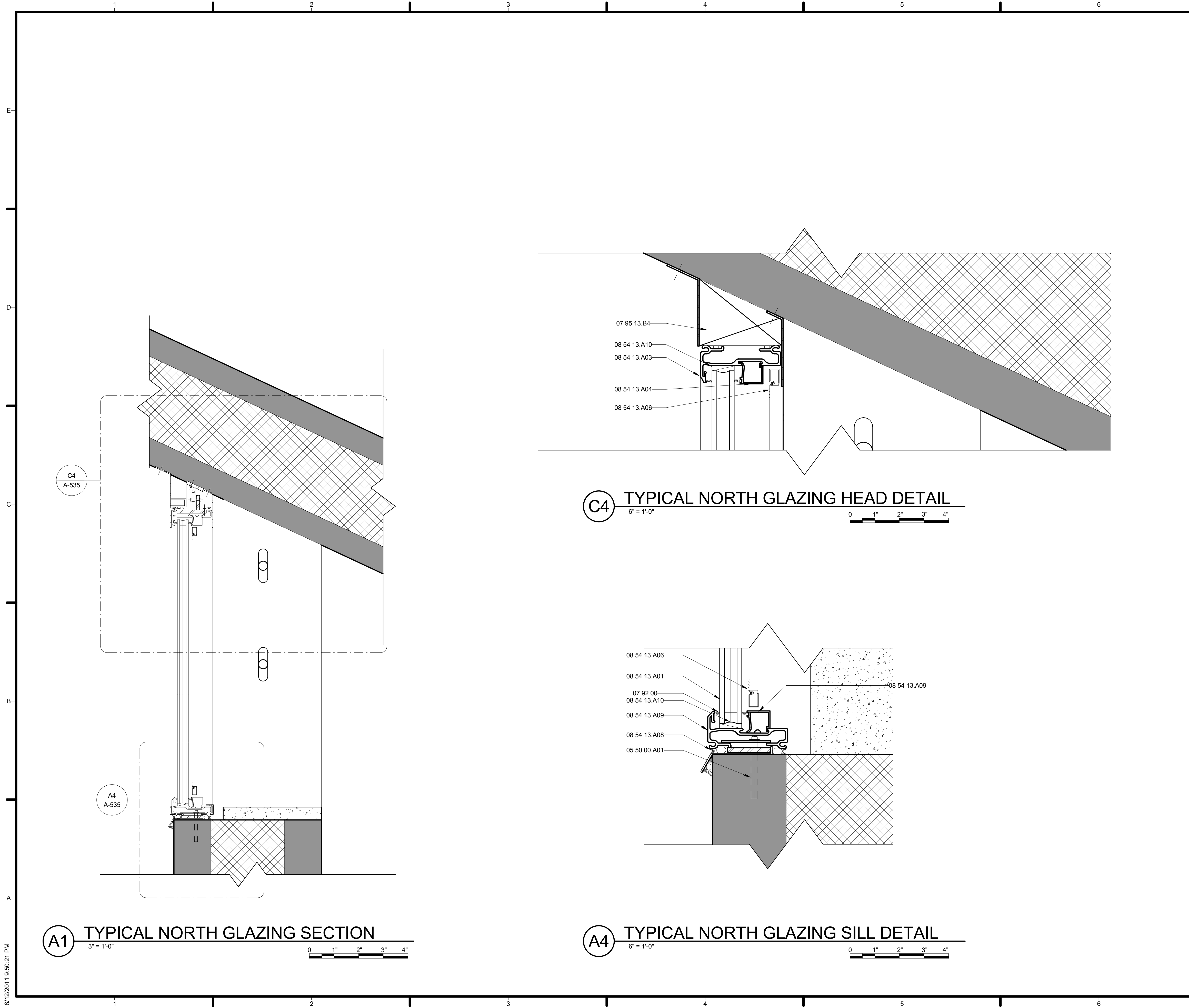
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SHEET TITLE  
**WINDOW DETAILS**

**A-534**



**GENERAL SHEET NOTES**

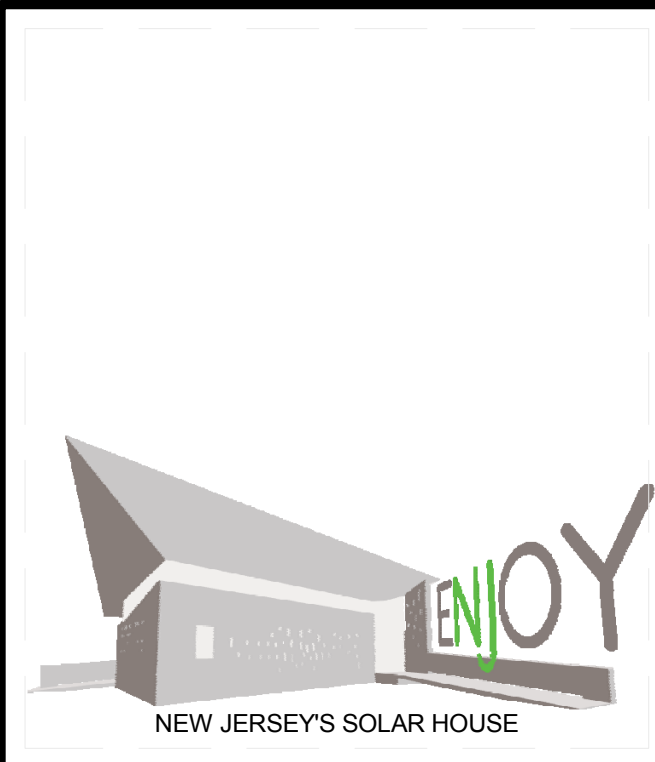
1. WINDOW HEAD ASSEMBLY INCORPORATES A SLOTTED CONNECTION IN ORDER TO ACCOMMODATE THE DEFLECTION IN THE ROOF.
2. SETTING BLOCK IS DISCONTINUOUS AND LOCATED AT THE QUARTER POINTS OF THE WINDOW.

**REFERENCE KEYNOTES**

05 50 00.A01	EXPANSION BOLT
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS
07 95 13.B4	1" EXPANSION JOINT
08 54 13.A01	SUSPENDED FILM INSULATED GLASS UNIT
08 54 13.A03	LOW PROFILE FIBERGLASS MULLION
08 54 13.A04	SNAP CAP
08 54 13.A06	FIBERGLASS WINDOW SCREENS
08 54 13.A08	JOINT SEALANT WITH BACKEROD
08 54 13.A09	AWNING FIBERGLASS MULLION
08 54 13.A10	SETTING BLOCK

**SHEET KEYNOTES**

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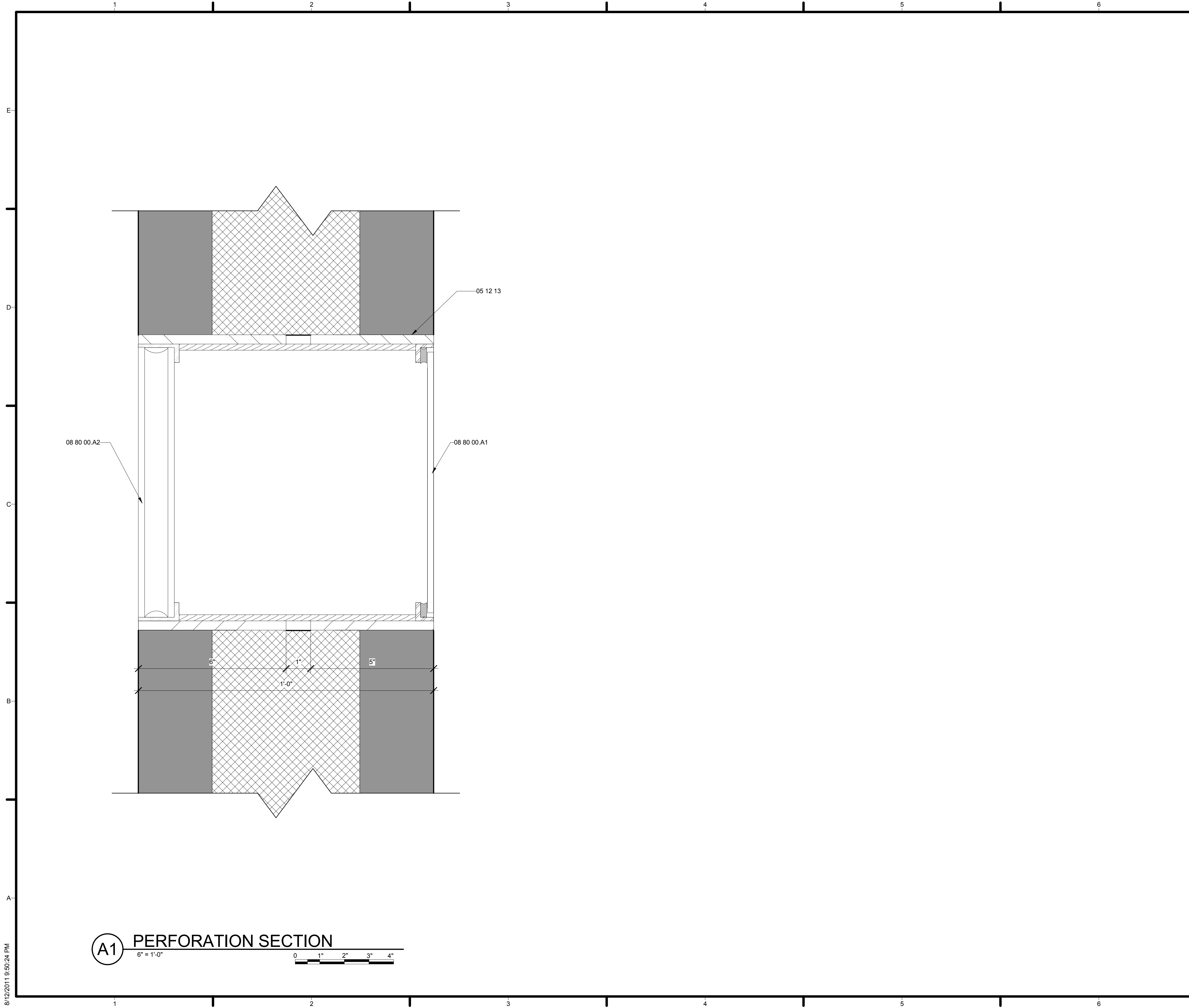


LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
 COPYRIGHT: NONE; PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
**WINDOW DETAILS**

**A-535**





**(A1) PERFORATION SECTION**  
 6" = 1'-0"  
 0 1" 2" 3" 4"

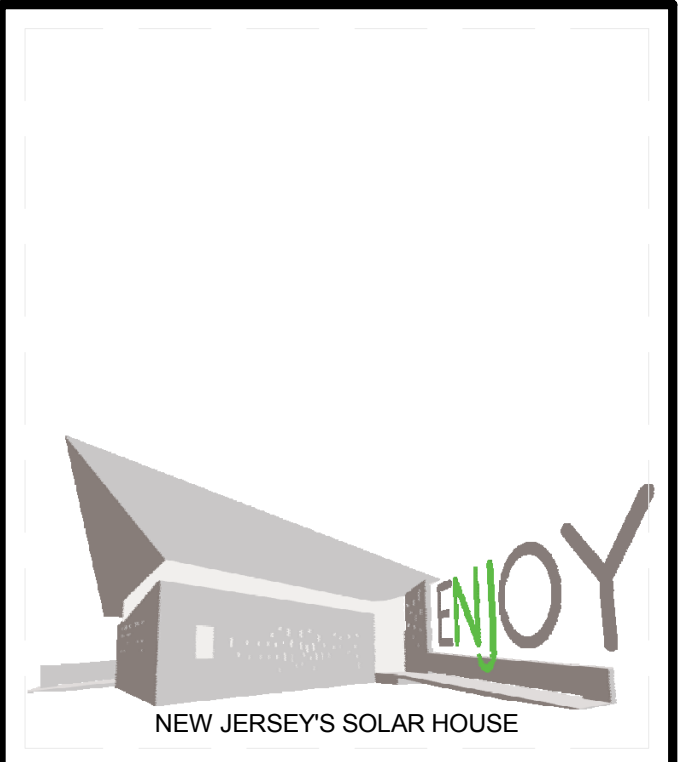
**GENERAL SHEET NOTES**

1. PERFORATION ASSEMBLY IS WELDED BEFORE THE POUR.
2. THE CORNERS OF THE CASING WILL BE MITERED.
3. EXTERIOR FINISH IS STAINLESS STEEL AND INTERIOR IS WOOD BLOCKING PAINTED WHITE TO REFLECT MAXIMUM LIGHT.
4. CASING IS TO BE CAST IN PLACE AND GLASS IS TO BE APPLIED IN THE FIELD.
5. PERFORATION WIDTHS RANGE BETWEEN 6", 8", AND 10" ROUGH OPENINGS. (SEE SCHEDULE ON A-606)

**REFERENCE KEYNOTES**

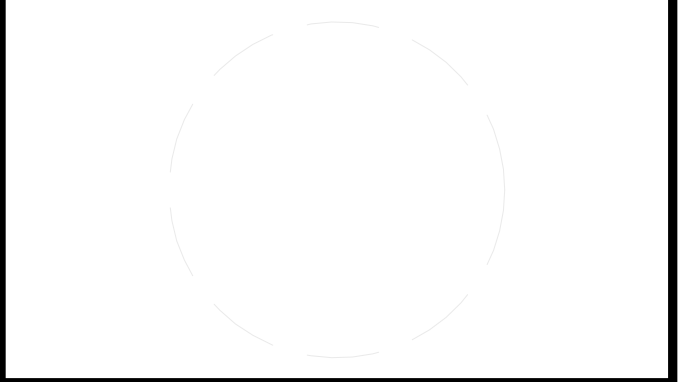
05 12 13	ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL FRAMING
08 80 00.A1	1" TEMPERED LOW-E GLASS
08 80 00.A2	SOLERA NANOGEL IGU

**SHEET KEYNOTES**



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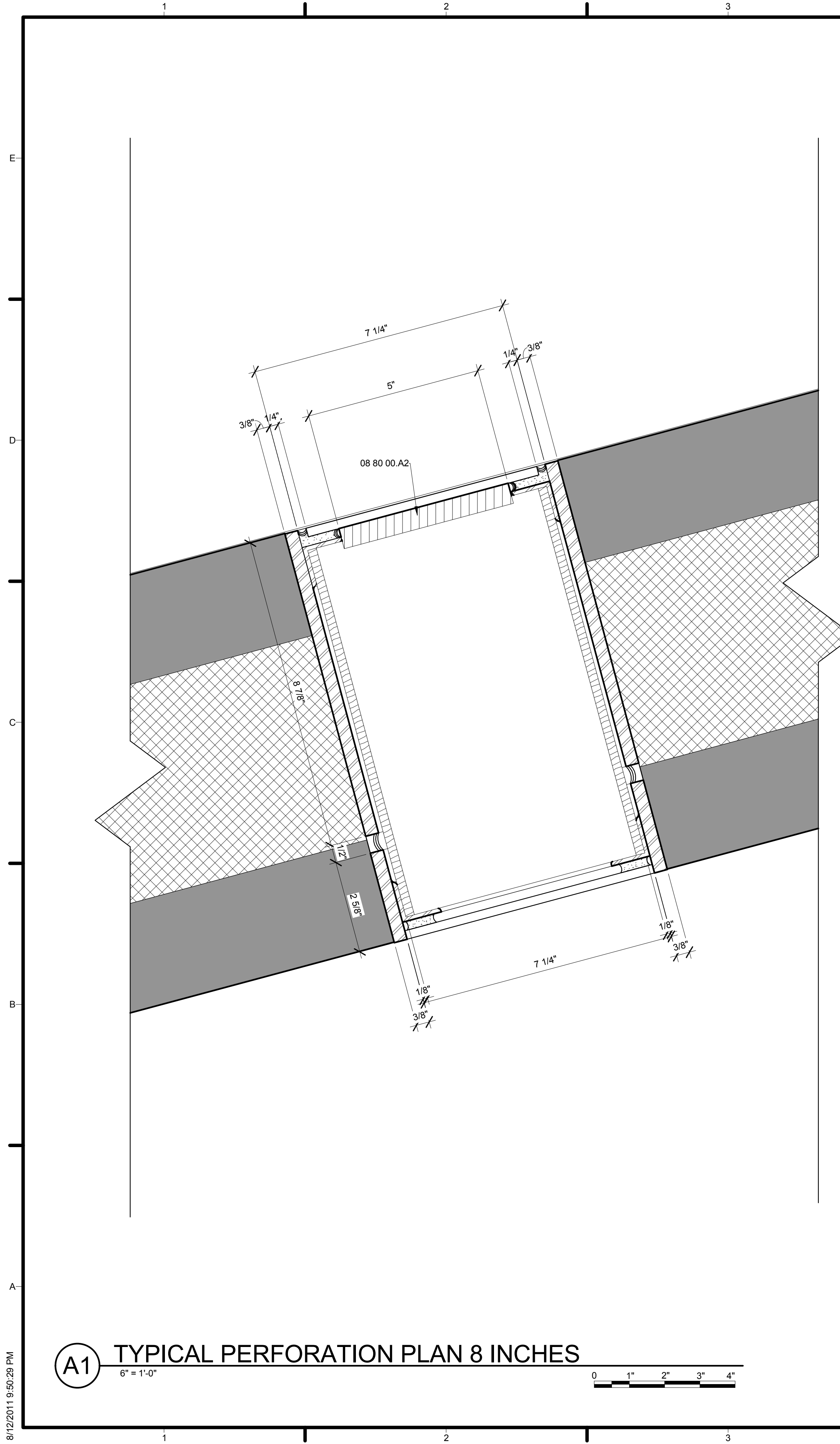
MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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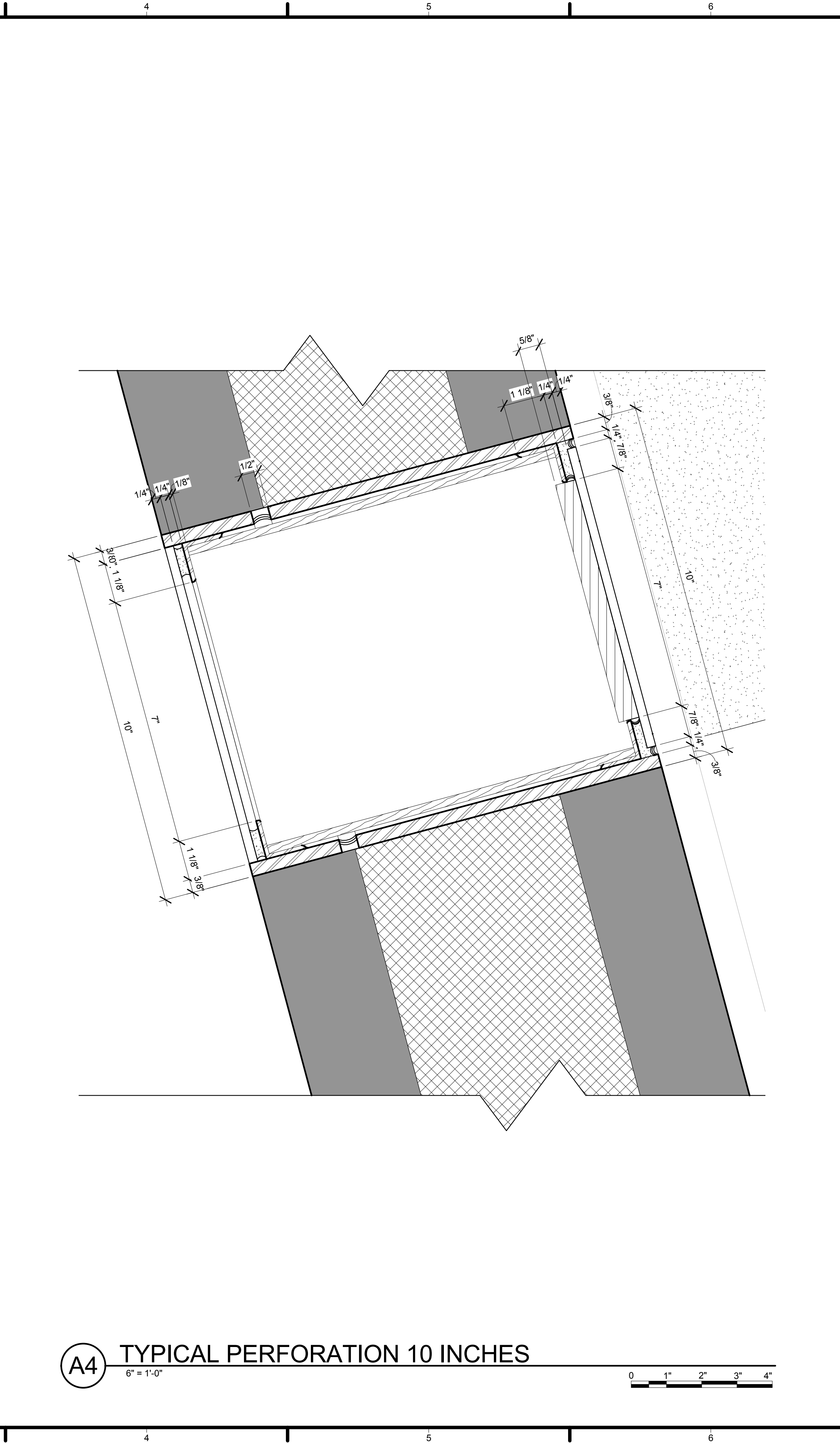
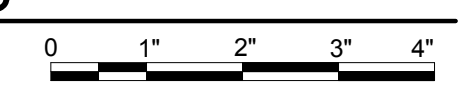
SHEET TITLE  
**WINDOW DETAILS**

**A-536**

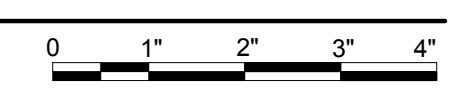
8/12/2011 9:50:24 PM



**A1** TYPICAL PERFORATION PLAN 8 INCHES  
6" = 1'-0"



**A4** TYPICAL PERFORATION 10 INCHES  
6" = 1'-0"



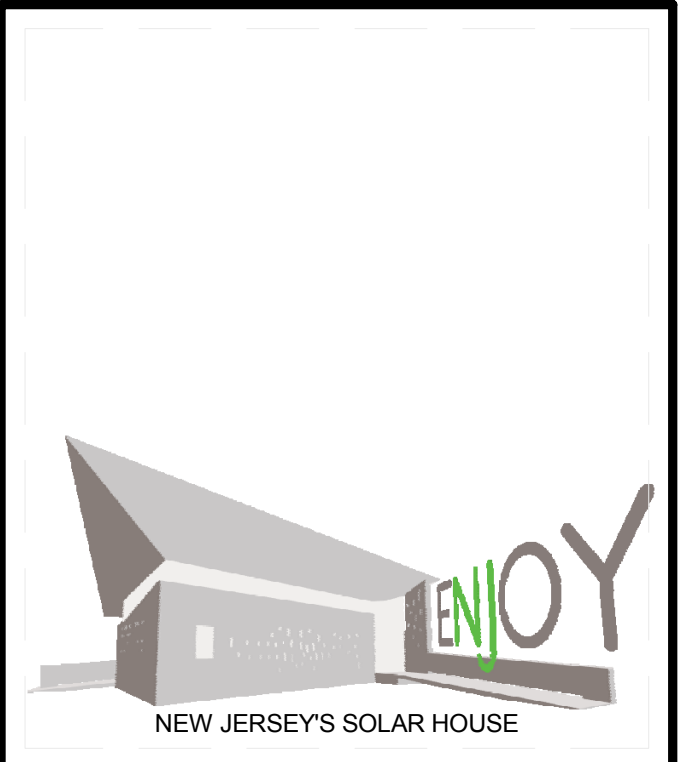
**GENERAL SHEET NOTES**

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2. THE CORNERS OF THE CASING WILL BE MITERED.
3. EXTERIOR FINISH IS STAINLESS STEEL AND INTERIOR IS PAINTED WHITE TO REFLECT MAXIMUM LIGHT.
4. CASING IS TO BE CAST IN PLACE AND GLASS IS TO BE APPLIED IN THE FIELD.
5. PERFORATION WIDTHS RANGE BETWEEN 6", 8", AND 10" ROUGH OPENINGS. (SEE SCHEDULE ON A-606)

**REFERENCE KEYNOTES**

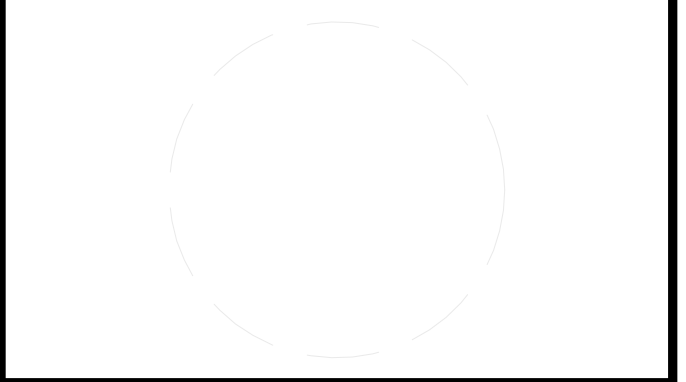
08 80 00.A2 SOLERA NANOGEL IGU

**SHEET KEYNOTES**



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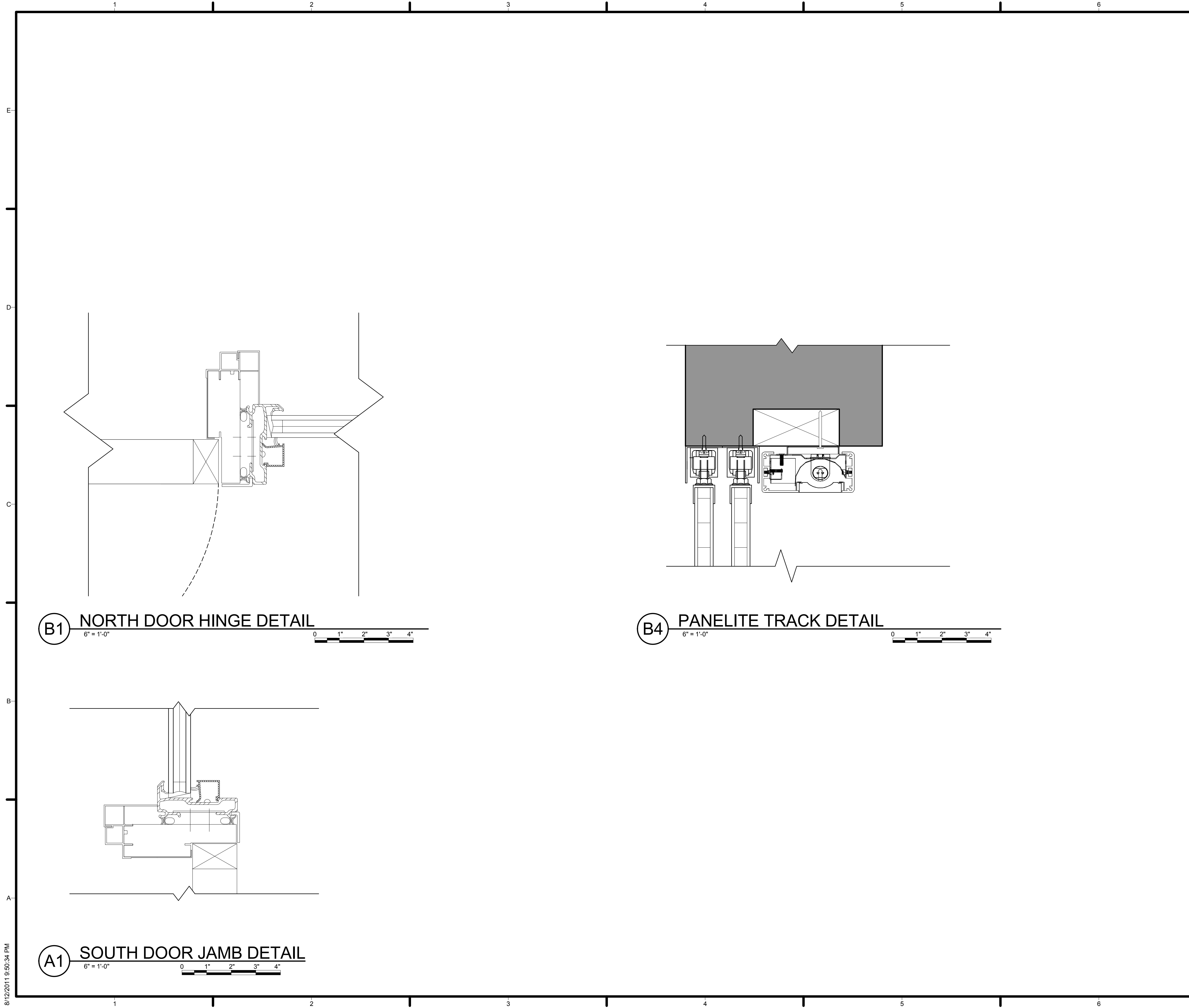
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
 COPYRIGHT: NONE: PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
**WINDOW DETAILS**

**A-537**

8/12/2011 9:50:29 PM



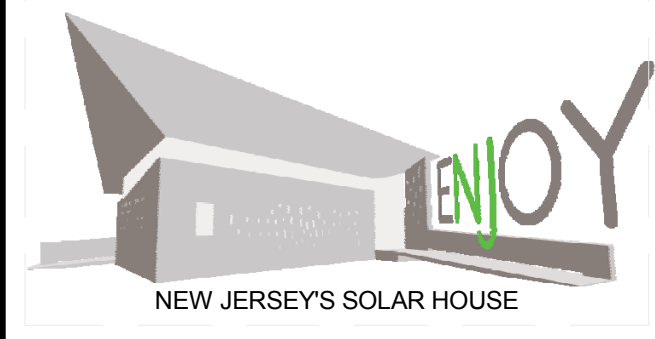


GENERAL SHEET NOTES

REFERENCE KEYNOTES

08 11 13 ASSA ABLOY HOLLOW METAL DOORS AND FRAMES

SHEET KEYNOTES



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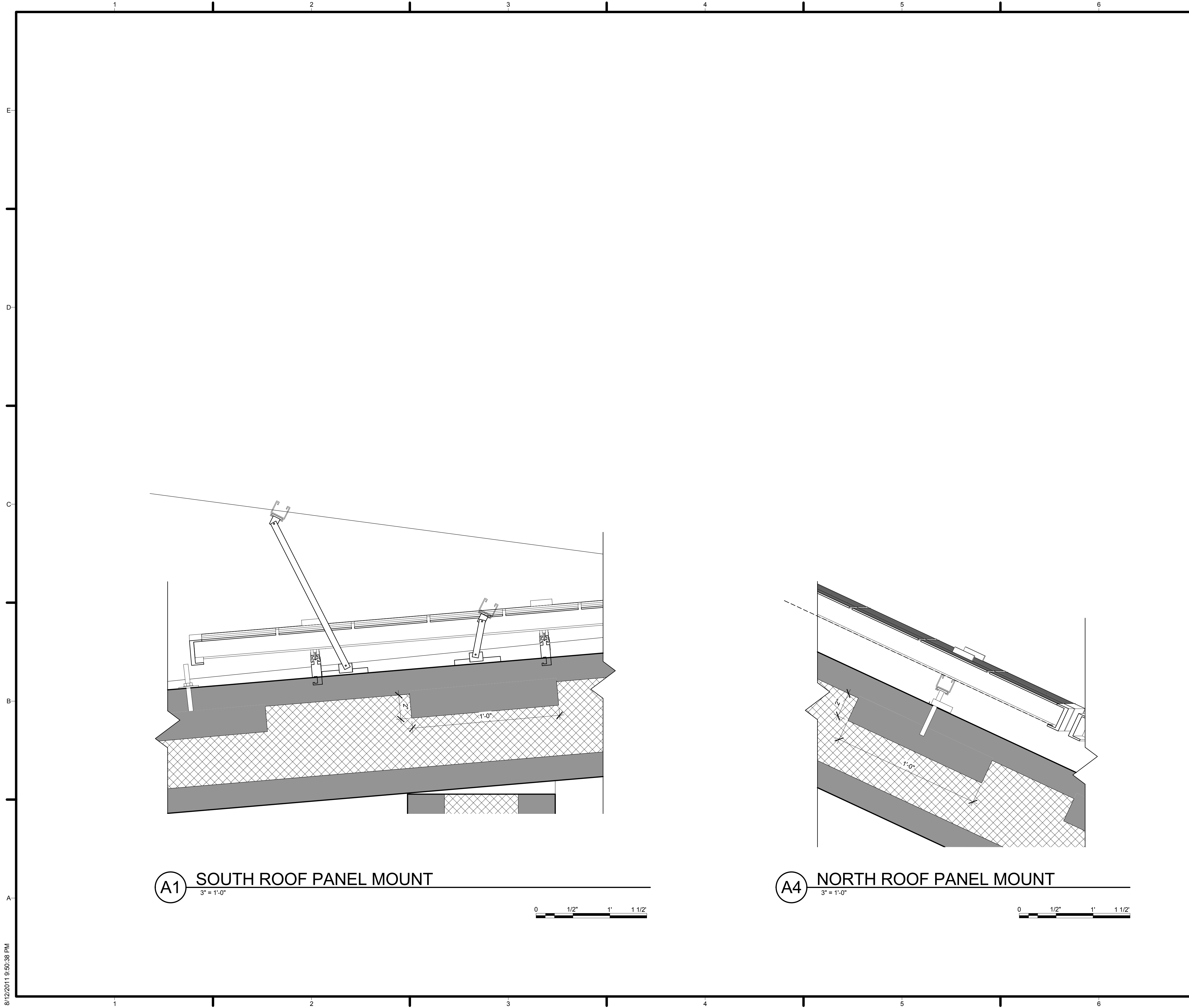
MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
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SHEET TITLE  
 DOOR DETAILS

A-540

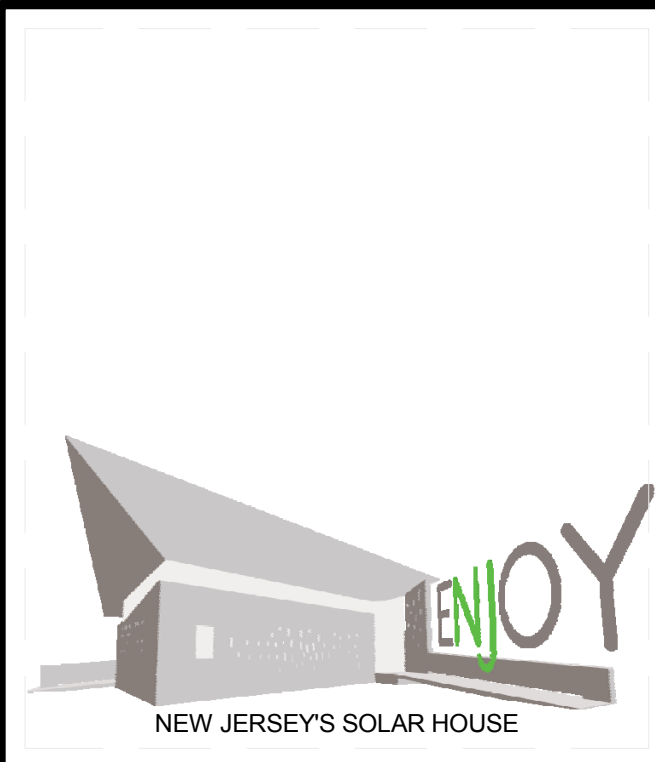
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GENERAL SHEET NOTES

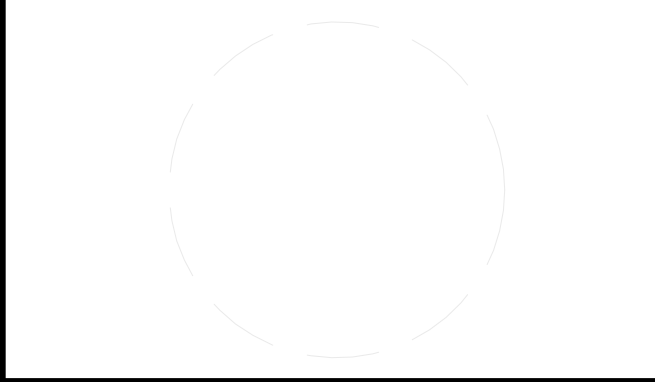
REFERENCE KEYNOTES

SHEET KEYNOTES



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A	03/22/2011	CONSTRUCTION DOCUMENTS

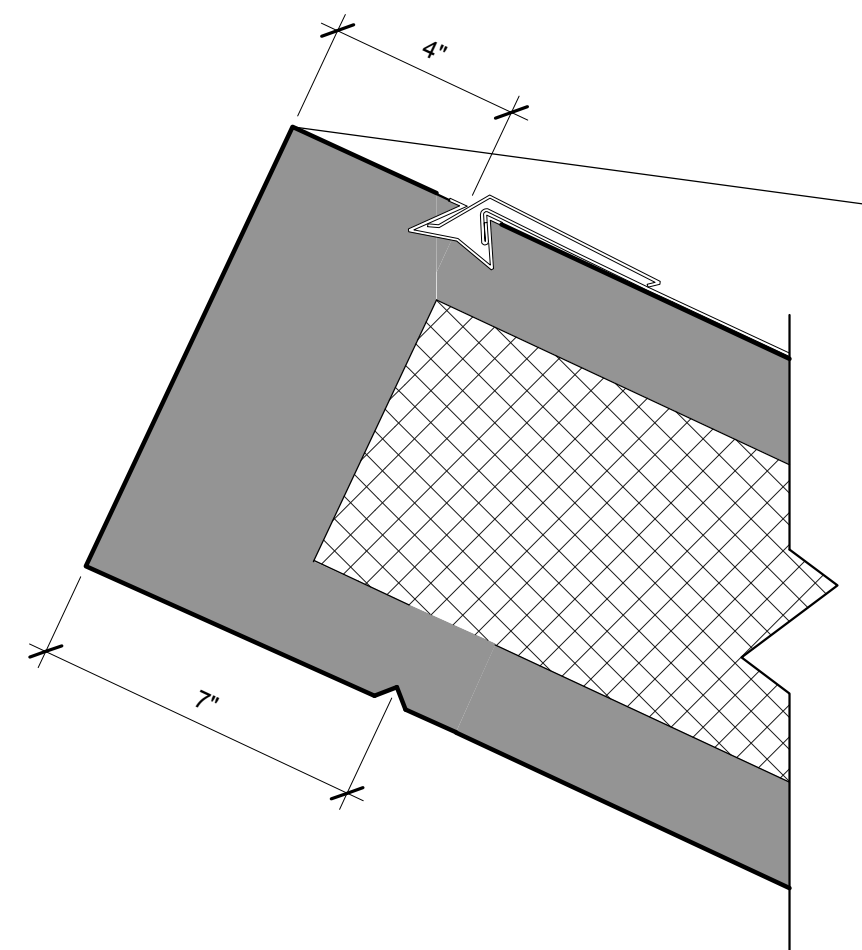
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 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
 COPYRIGHT: NONE: PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
 PV MOUNTING DETAILS

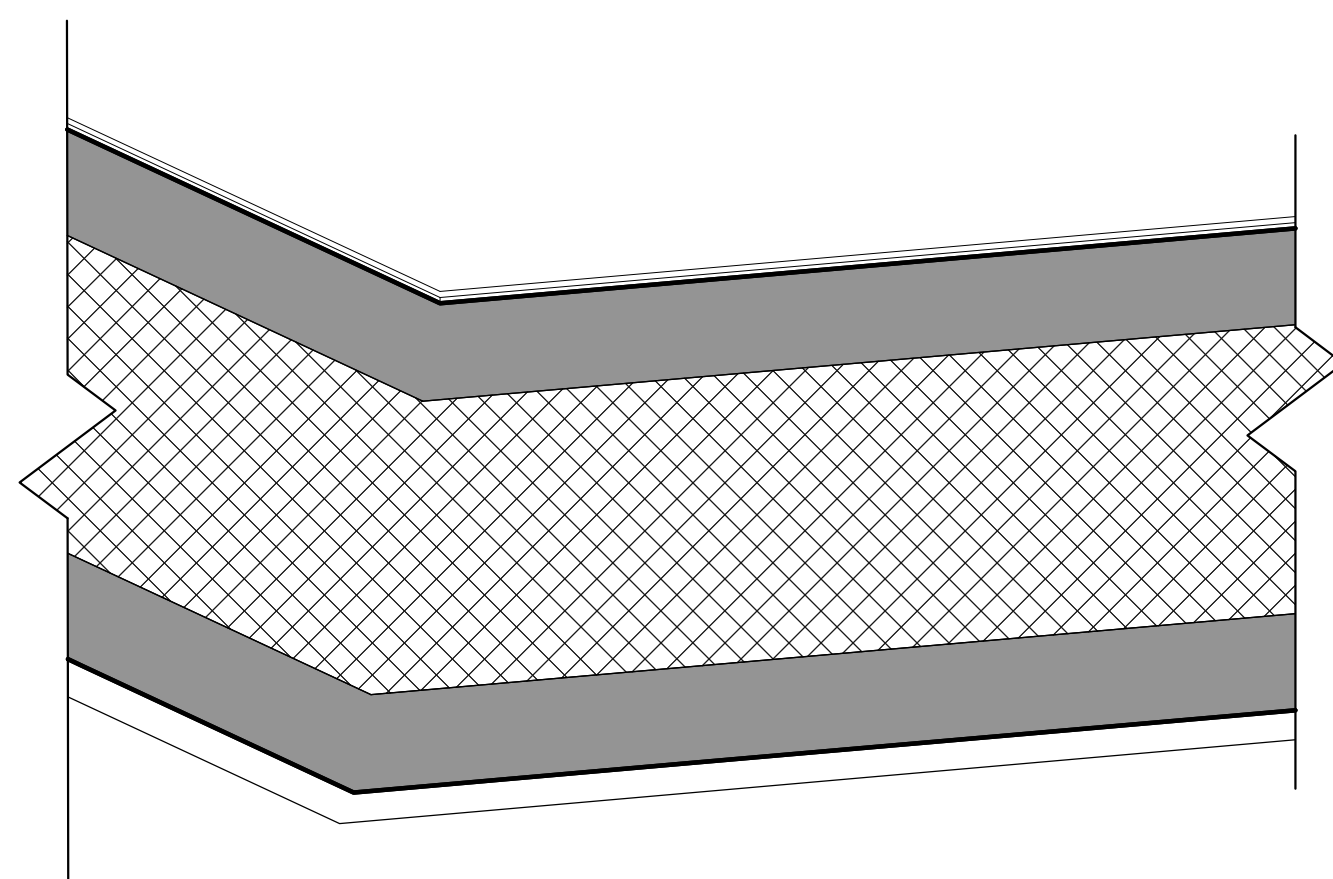
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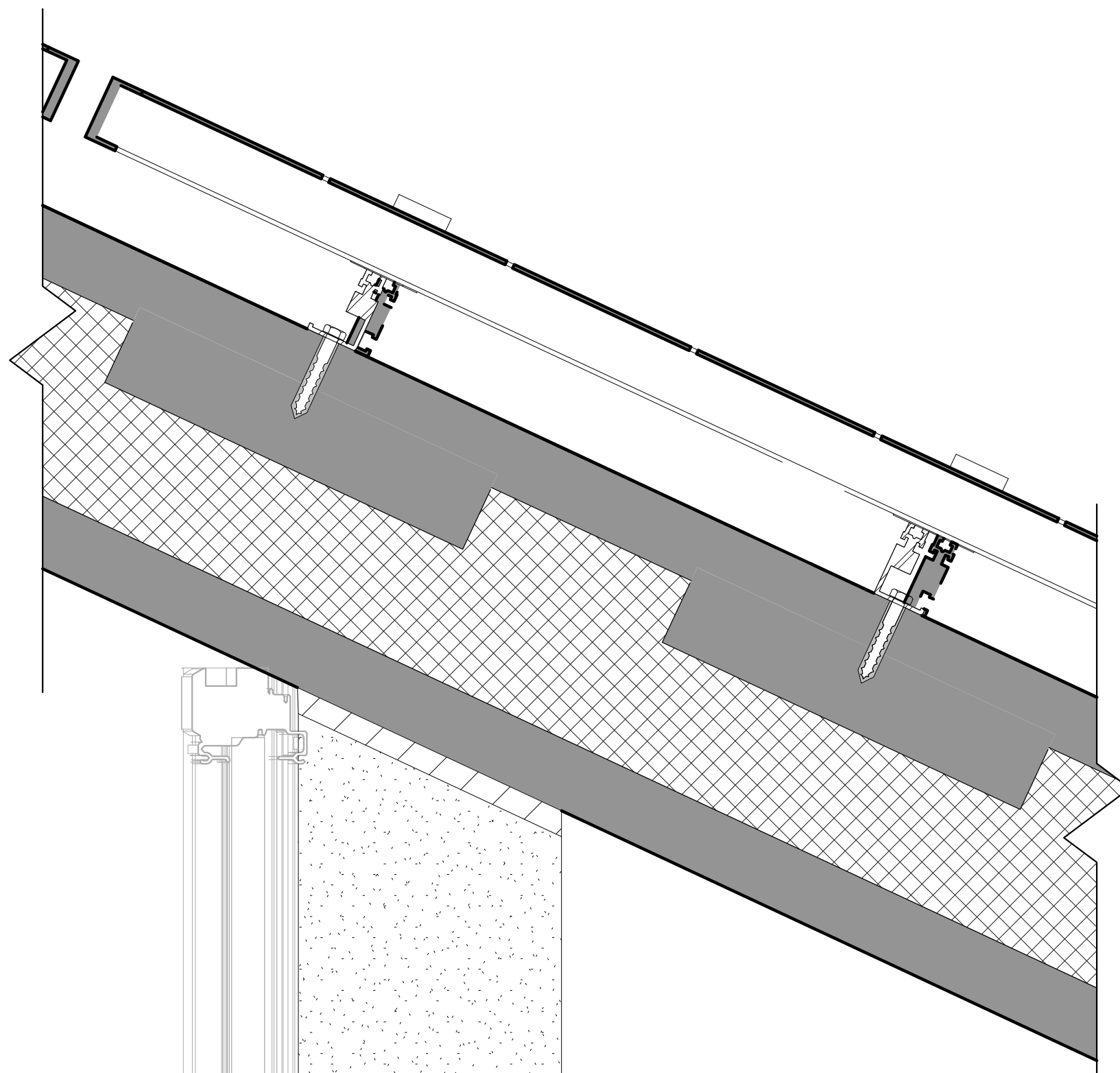




**C1** ROOF WATERPROOFING DETAILS  
3" = 1'-0"



**A1** ROOF MEMBRANE DETAIL  
3" = 1'-0"



**A3** PV MOUNTING HARDWARE DETAIL  
3" = 1'-0"

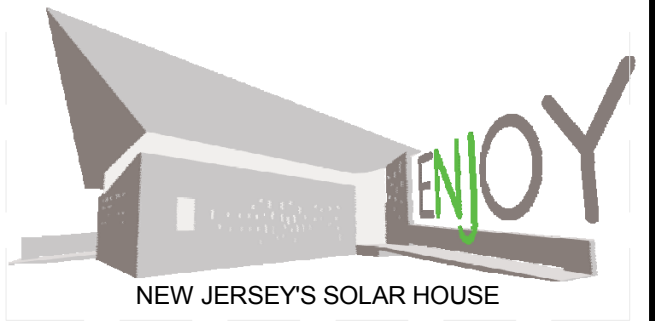


GENERAL SHEET NOTES

REFERENCE KEYNOTES

07 54 00 THERMOPLASTIC MEMBRANE ROOFING

SHEET KEYNOTES



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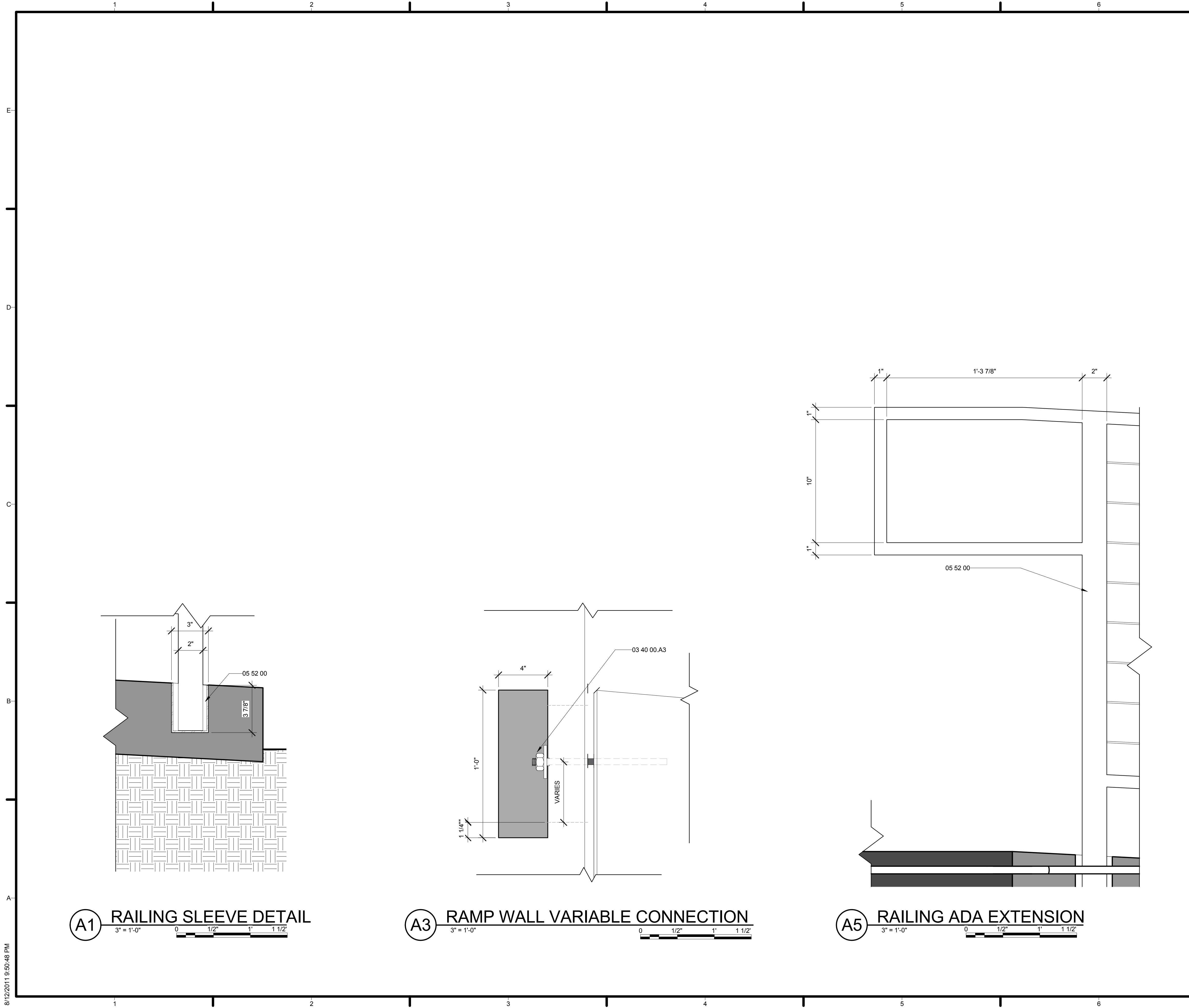


MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: AUTHORTEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
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SHEET TITLE  
**ROOF DETAILS**

**A-561**

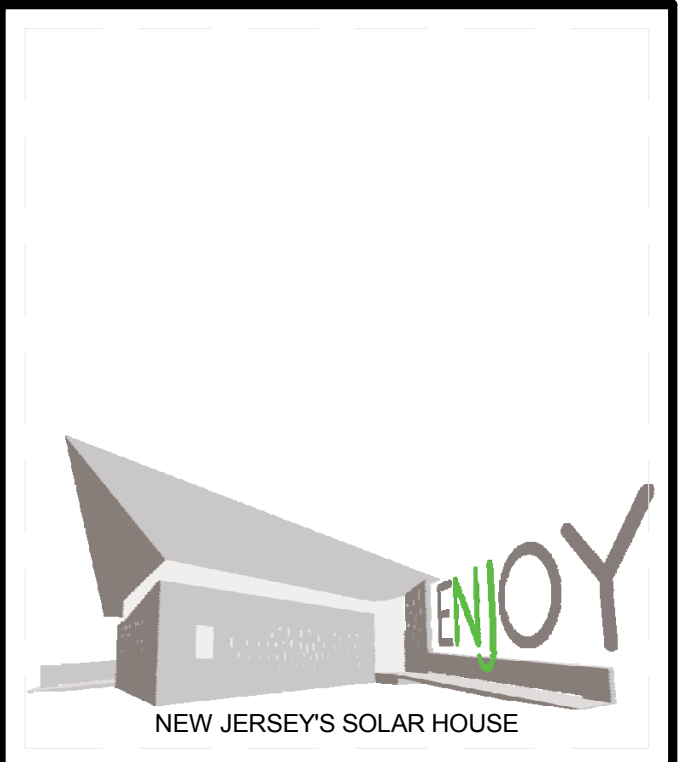


**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

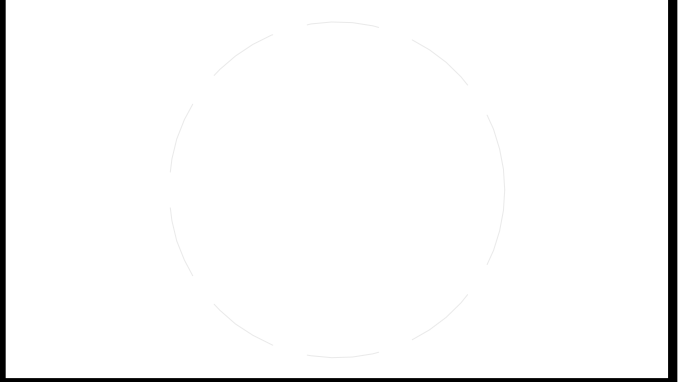
03 40 00.A3 1 1/2" ANCHOR BOLT  
 03 45 00.A01 PIP WALL ASSEMBLY  
 05 52 00 SRS INC STEEL RAILINGS

**SHEET KEYNOTES**



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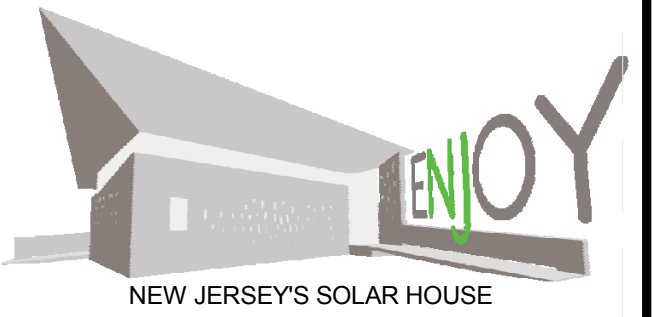
LOT NUMBER: LOT 104  
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**SHEET TITLE**  
 RAILING DETAILS

**A-591**



DOOR SCHEDULE INTERIOR							
KEYNOTE	MARK	DESCRIPTION	FRAME MATERIAL	MANUFACTURER	ROUGH HEIGHT	ROUGH WIDTH	MODEL
08 84 00	221JJ	INTERIOR DOOR	ALUMINUM	PANEL LITE	7'-6"	2'-6"	PANELITE BONDED SERIES
08 11 13	221KK	HOLLOW METAL DOORS	STAINLESS STEEL	ASSA ABLOY	6'-11"	3'-3"	TRIO-E READY SET
08 84 00	221OO	INTERIOR DOOR	ALUMINUM	Panel Lite	7'-6"	2'-6"	PANELITE LAMINATED SERIES
08 84 00	221QQ	INTERIOR DOOR	ALUMINUM	Panel Lite	7'-0"	4'-0"	PANELITE LAMINATED SERIES
08 11 13	221VV	HOLLOW METAL DOORS	STAINLESS STEEL	ASSA ABLOY	6'-11"	3'-3"	TRIO-E READY SET
08 14 16	221YY	THERMAL FUSED FLUSH DOORS	WOOD	ASSA ABLOY	7'-0"		THERMAL FUSED FLUSH DOOR



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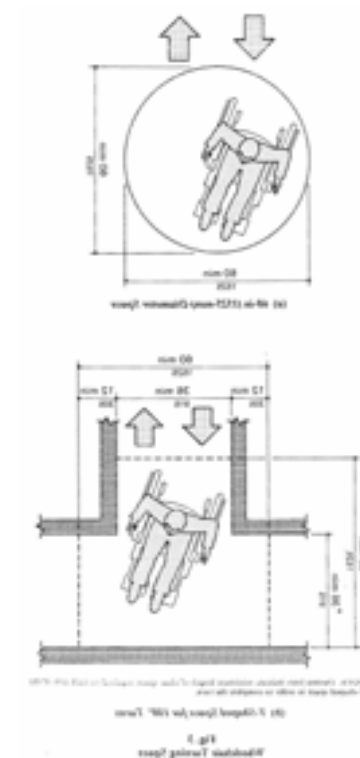
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SCHEDULES

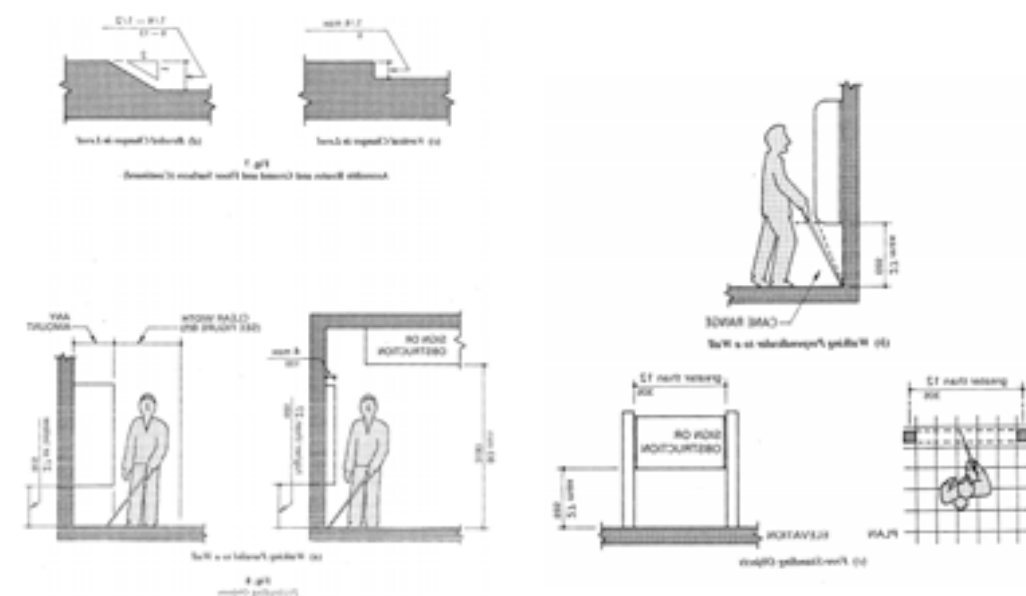
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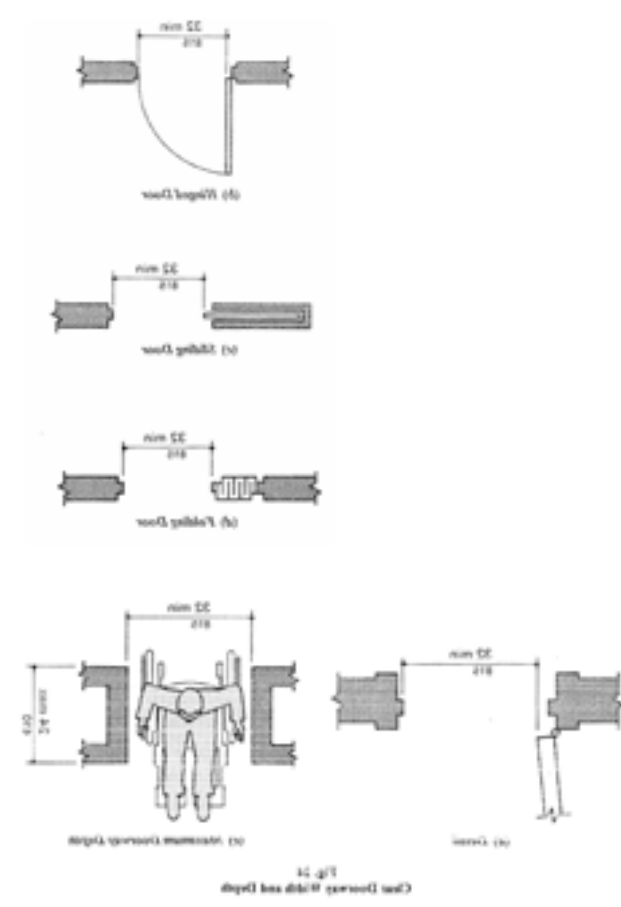




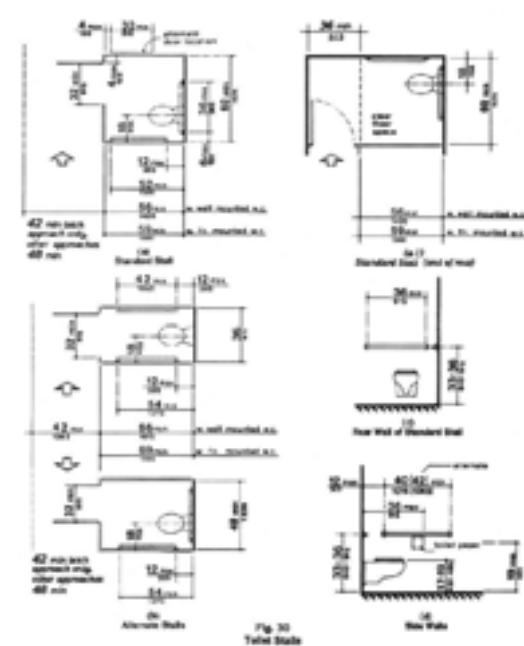
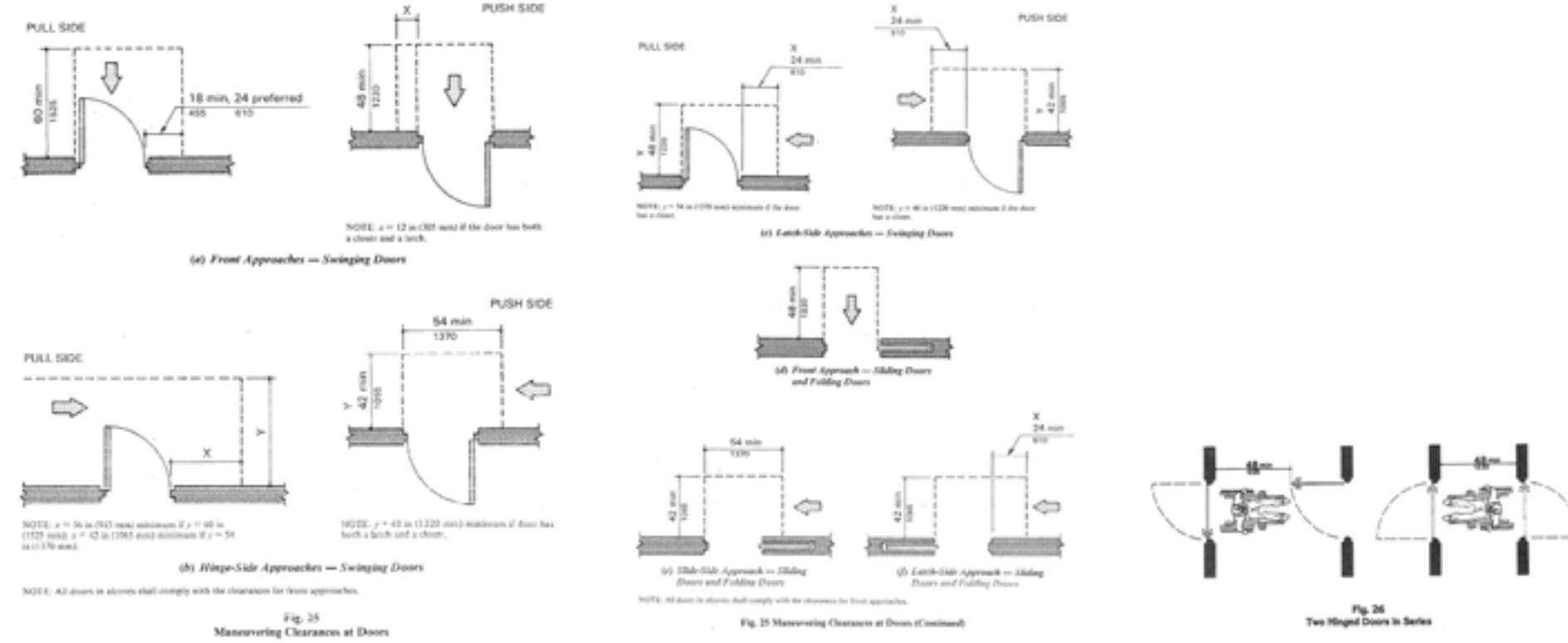
D1 - ACCESSIBLE PATH  
ANSI DIAGRAM- NOT TO SCALE



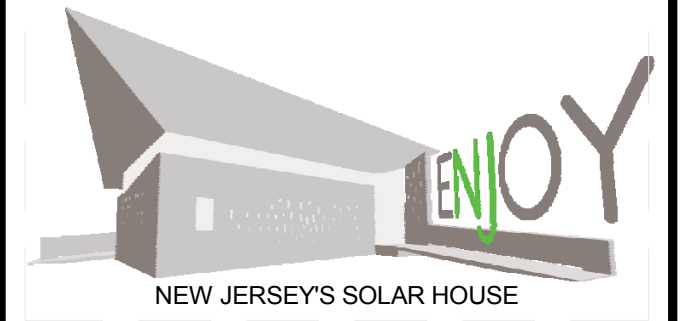
D3 - PROTRUDING OBJECTS  
ANSI DIAGRAMS- NOT TO SCALE



C1 - DOOR CLEARANCES  
ANSI DIAGRAMS- NOT TO SCALE



A1 - BATHROOMS  
ANSI DIAGRAMS- NOT TO SCALE



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SHEET TITLE

ACCESSIBILITY  
DIAGRAMS

A-603













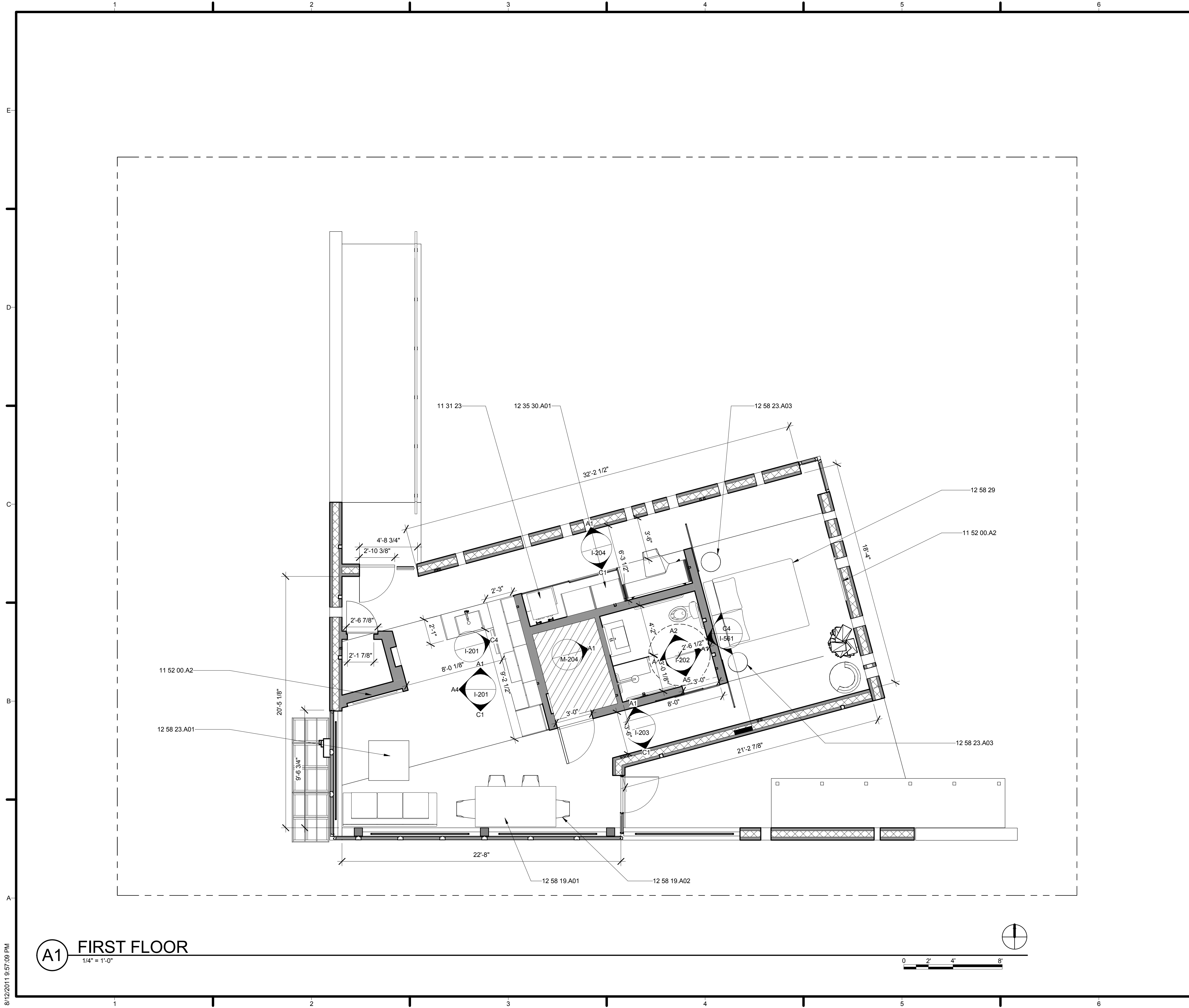












**A1** FIRST FLOOR  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

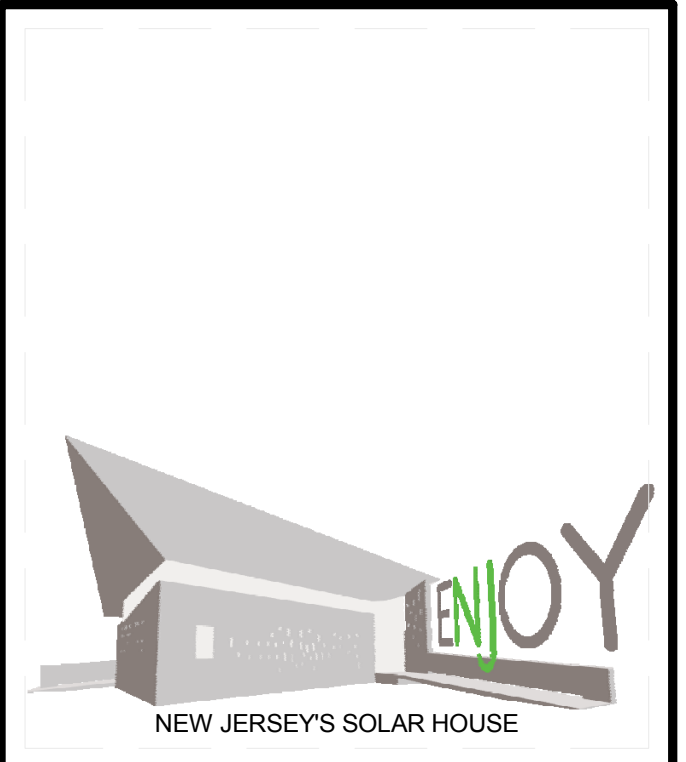
1. DIMENSIONS ARE GIVEN FROM OUTSIDE OF FINISH SURFACE TO OUTSIDE OF FINISH SURFACE
2. FINISHED FLOOR TO BE POLISHED AND DYED CONCRETE

**REFERENCE KEYNOTES**

11 31 23	RESIDENTIAL LAUNDRY APPLIANCES
11 52 00.A2	LG 47" LED LCD TV
12 35 30.A01	IKEA CLOSET STORAGE UNIT
12 58 19.A01	CAPPELLINI FRONZONI DINING ROOM TABLE
12 58 19.A02	CAPPELLINI BAC CHAIR
12 58 23.A01	CAPPELLINI SMOKE COFFEE TABLE
12 58 23.A03	CAPPELLINI BONG SIDE TABLE
12 58 29	CAPPELLINI SITE BED

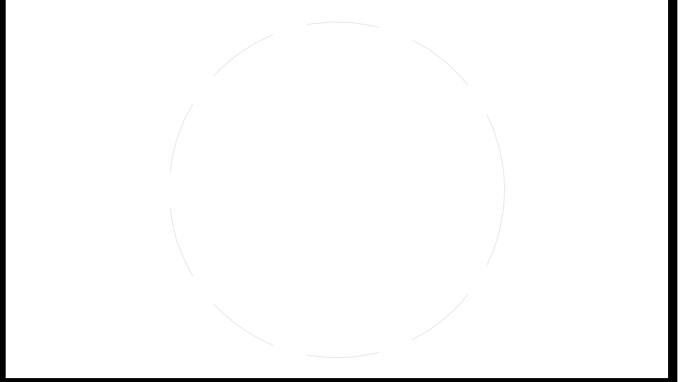
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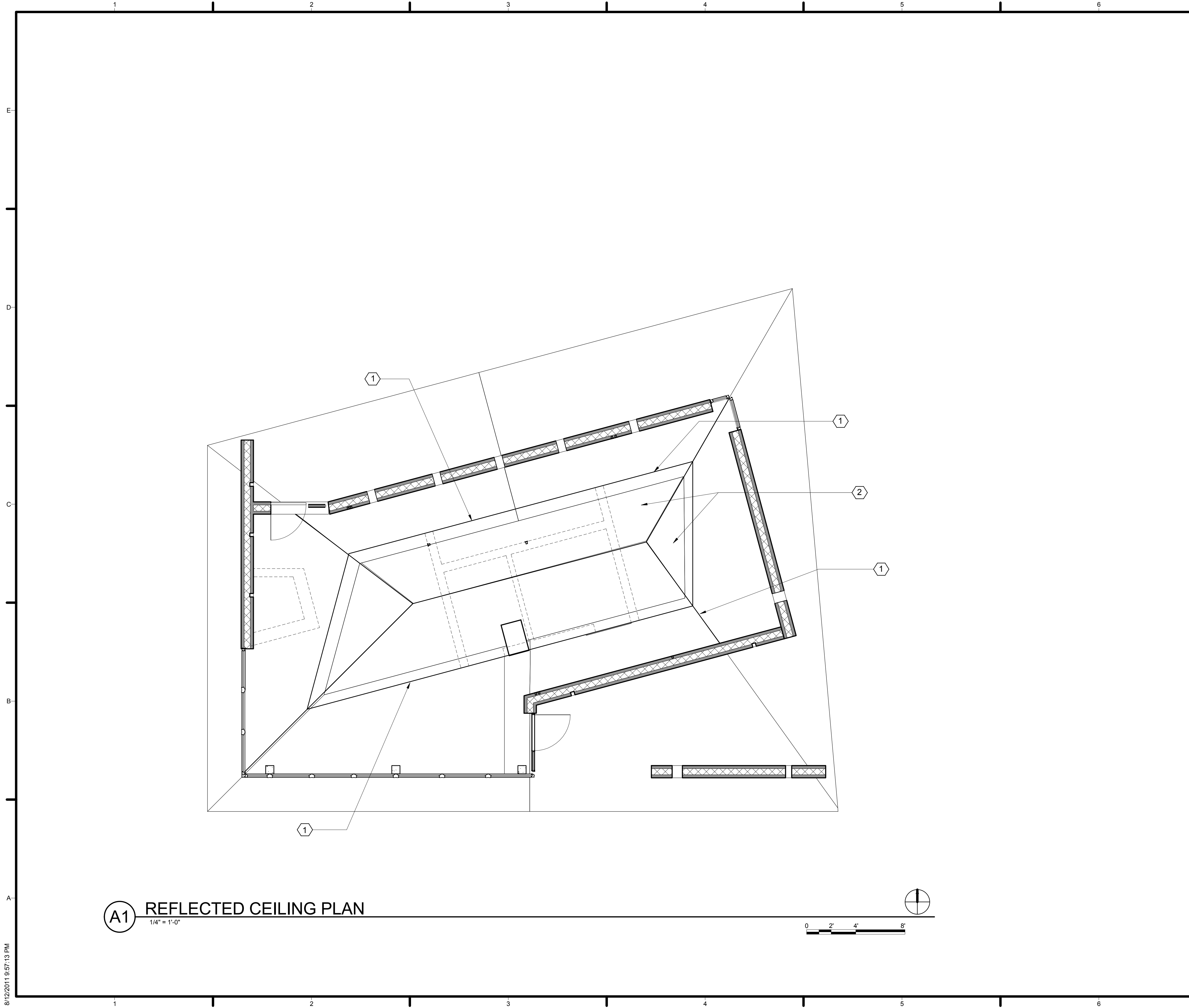


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SHEET TITLE  
**INTERIOR DESIGN PLAN**

**I-101**

8/12/2011 9:57:09 PM



**A1 REFLECTED CEILING PLAN**  
1/4" = 1'-0"

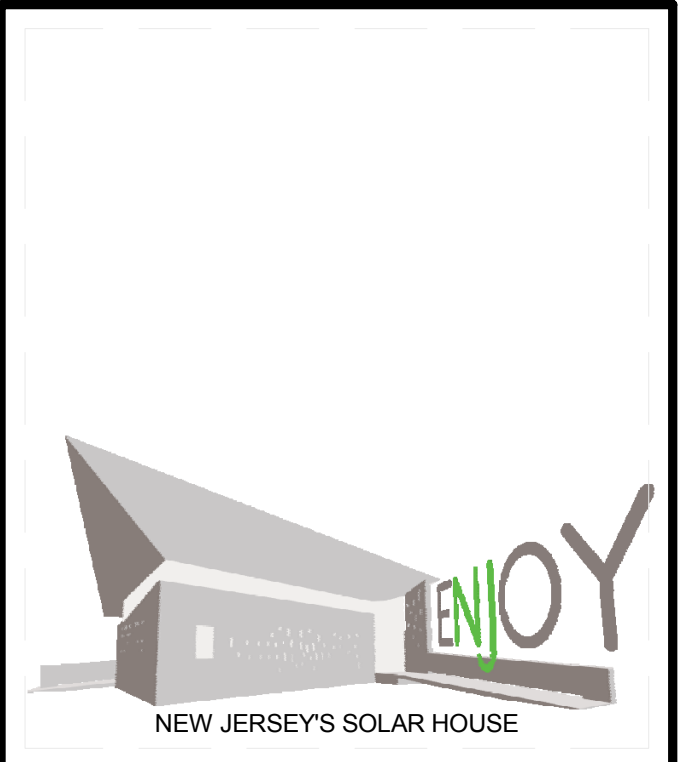
**GENERAL SHEET NOTES**

1. THERE ARE NO OBSTRUCTIONS OR ATTACHMENTS TO THE CEILING OTHER THAN THE WALLS, COLUMNS, GLAZING AND THE MECHANICAL ROOM PENETRATION.

**REFERENCE KEYNOTES**

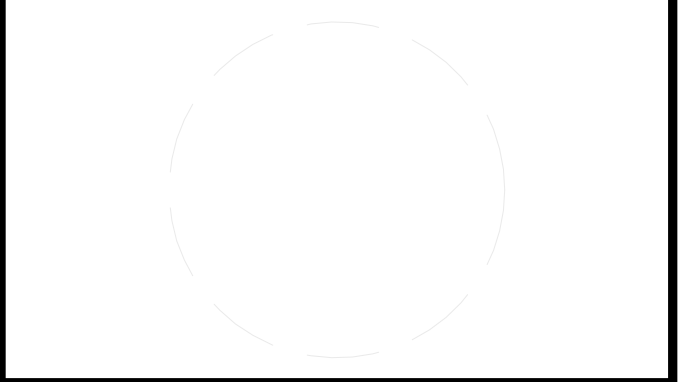
**SHEET KEYNOTES**

- 1. ROOF PANEL JOINTS
- 2. MAIN STRUCTURAL CENTRAL PIECE



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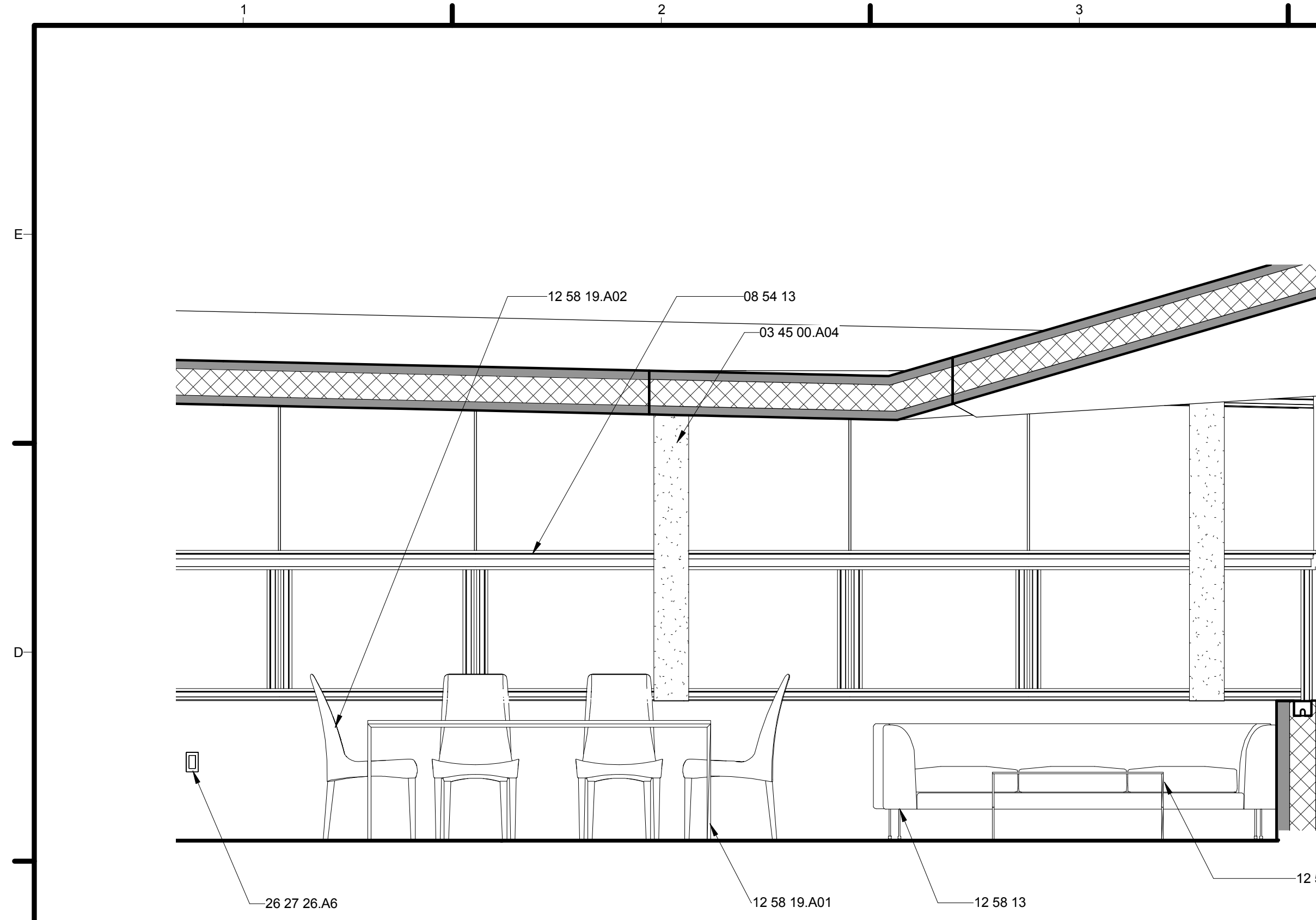
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
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SHEET TITLE  
**INTERIOR DESIGN  
 REFLECTED CEILING  
 PLAN**

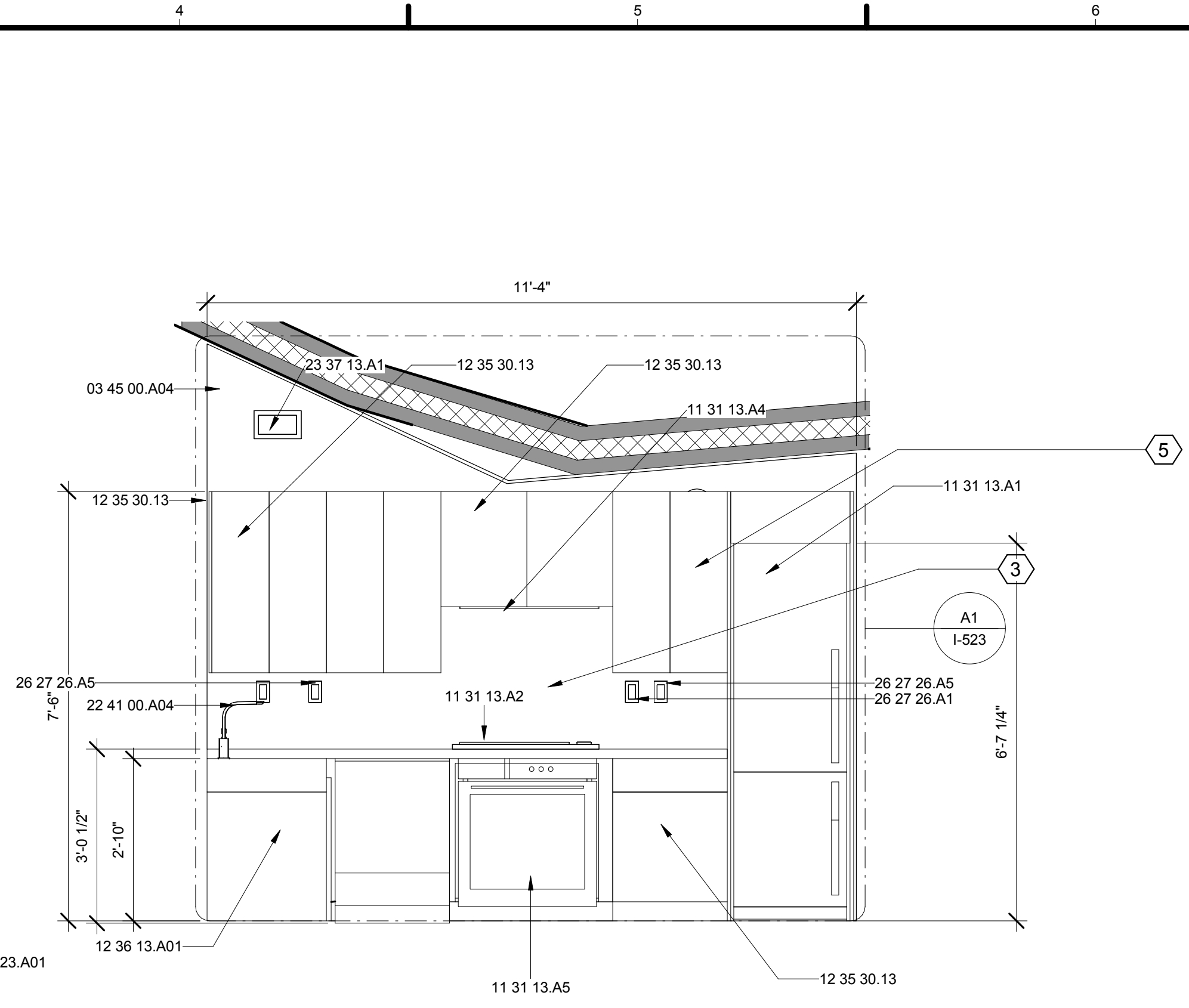
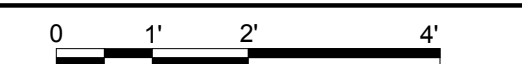
**I-121**

8/12/2011 9:57:13 PM

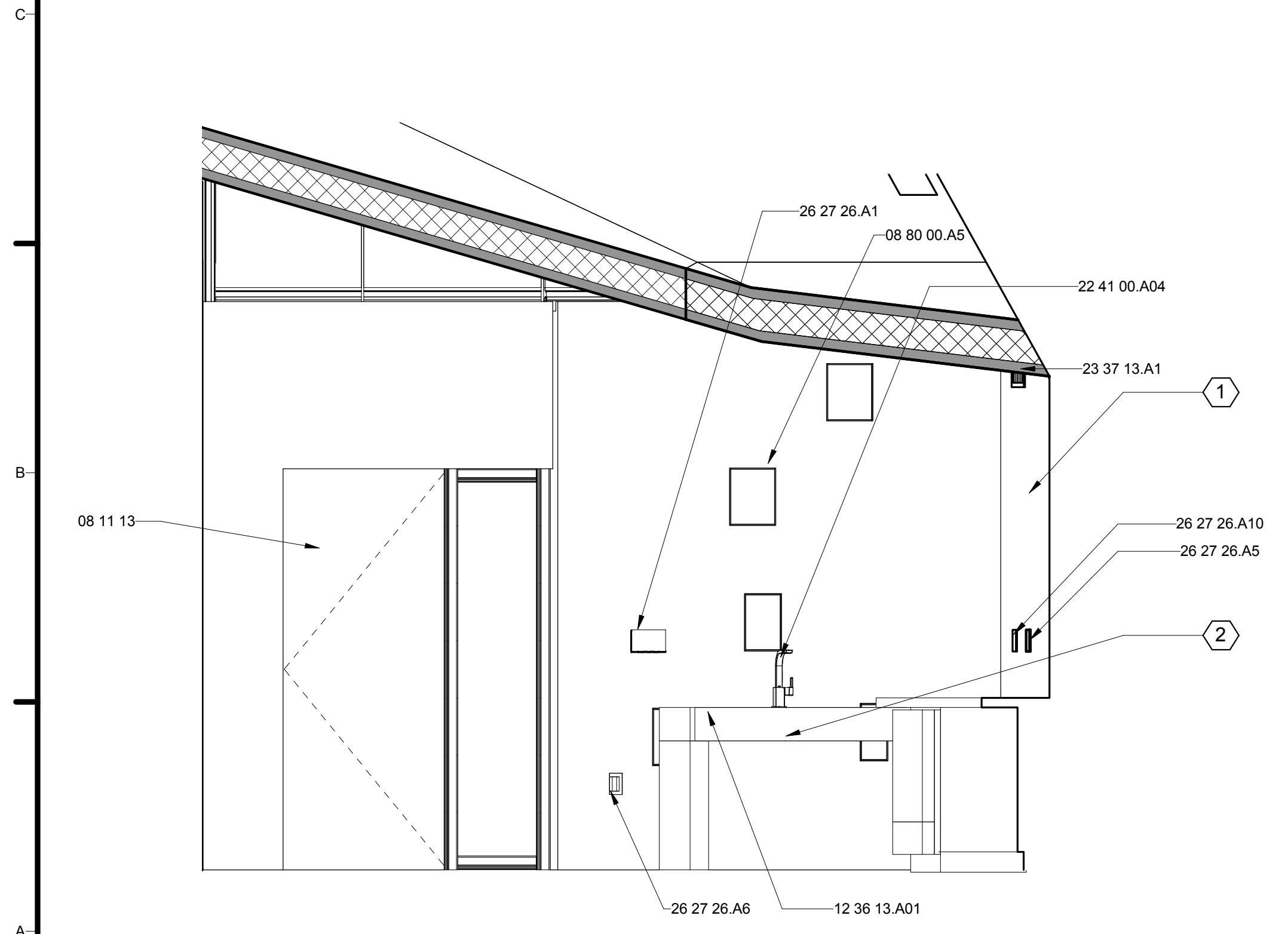
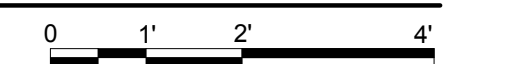




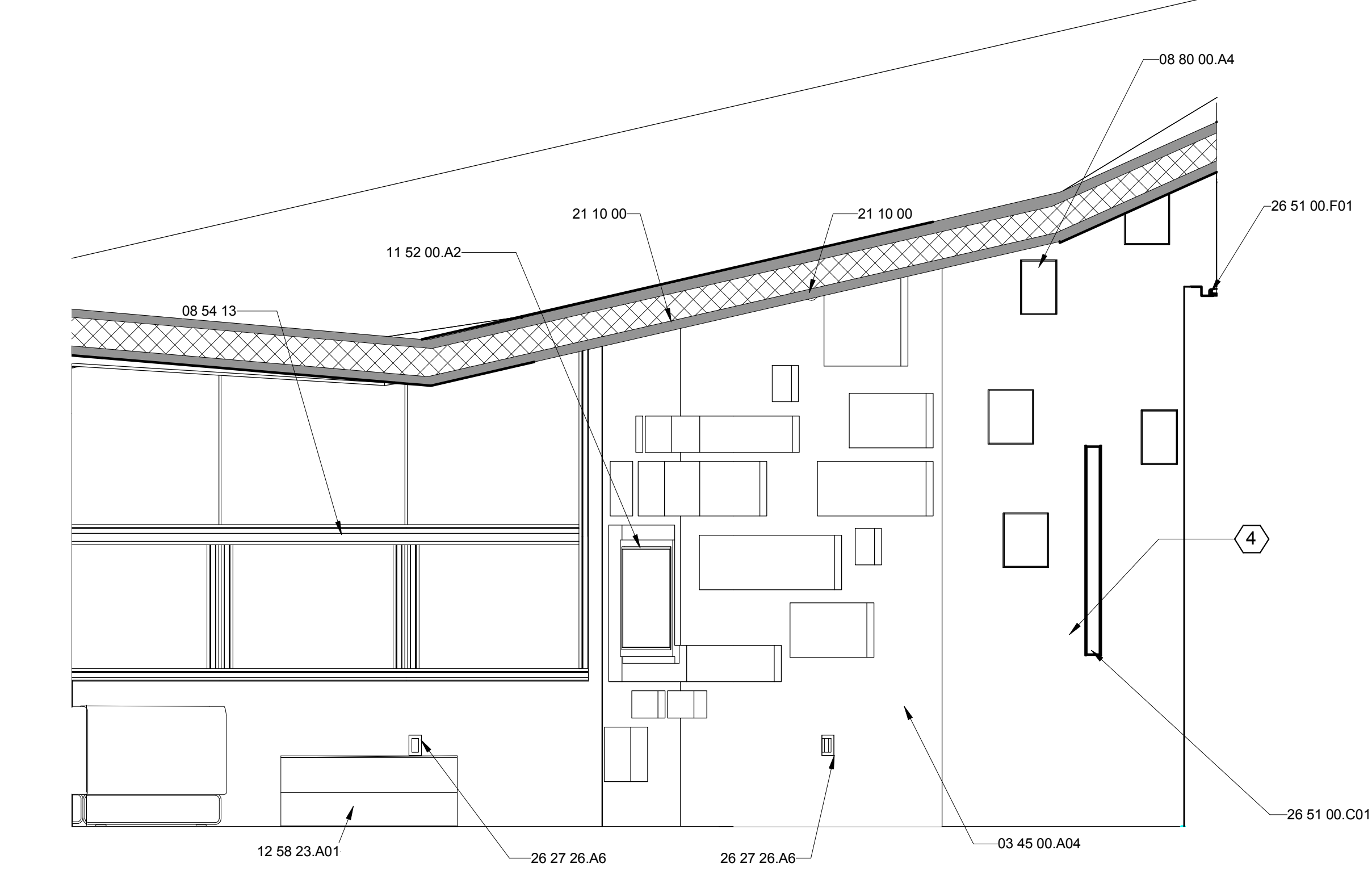
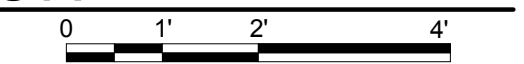
**C1** INTERIOR LIVING ROOM ELEVATION  
1/2" = 1'-0"



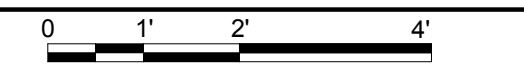
**C4** INTERIOR KITCHEN ELEVATION 1  
1/2" = 1'-0"



**A1** INTERIOR ENTRANCE ELEVATION  
1/2" = 1'-0"



**A4** INTERIOR CLOSET ELEVATION  
1/2" = 1'-0"



**GENERAL SHEET NOTES**

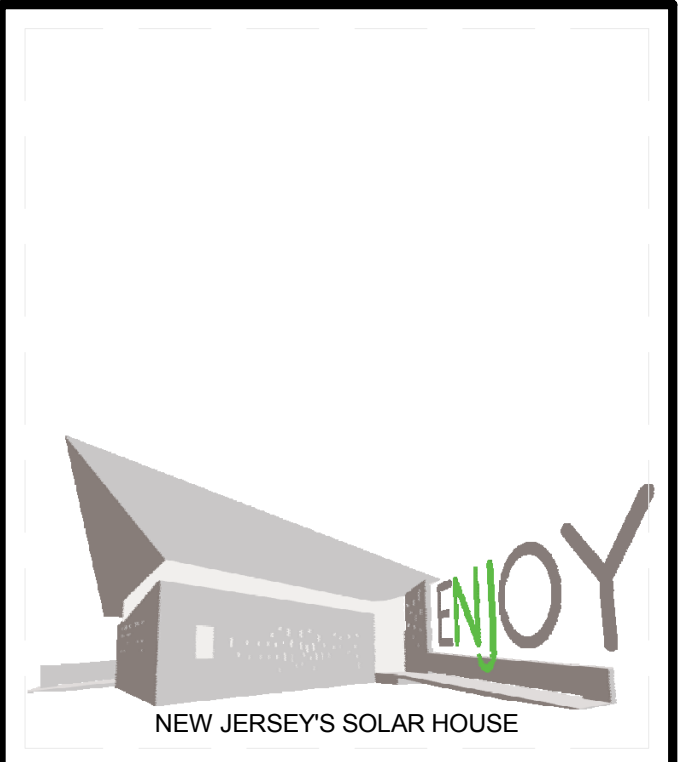
1. DATA LOGGING DEVICES AS SPECIFIED BY THE DOE WOULD BE LOCATED ABOVE THE KITCHEN COUNTER TOP AS VISIBLE IN ELEVATION C4.
2. FINISH OF ALL INTERIOR WALLS SHALL BE A SMOOTH ARCHITECTURAL CONCRETE.
3. TOP OF KITCHEN SINK TO BE INSTALLED AT 34" A.F.F.
4. I.G. UNITS TO BE INSTALLED ON SITE AND REMOVED FOR EACH SHIPMENT
5. ALL ELECTRICAL OUTLET AND LIGHT SWITCH FACE PLATES ARE TO BE A BRUSHED STAINLESS STEEL FINISH.
6. THE HAND SHOWER IS TO BE MOUNTED AT 48" A.F.F.
7. ALL ACCOLADE 3 LIGHTS ARE TO BE MOUNTED FLUSH TO FINISH OF INTERIOR WALLS.

**REFERENCE KEYNOTES**

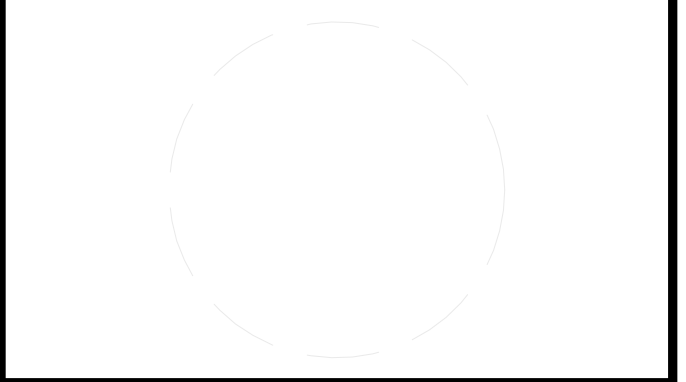
03 45 00.A04	PRECAST CONCRETE COLUMN
08 11 13	ASSA ABLLOY HOLLOW METAL DOORS AND FRAMES
08 54 13	FIBERGLASS WINDOWS
08 80 00.A4	8" PERFORATION
08 80 00.A5	10" PERFORATION
11 31 13.A1	LIEBHERR REFRIGERATOR
11 31 13.A2	FRIGIDARE ELECTRIC INDUCTION COOKTOP
11 31 13.A4	AIR KING EXHAUST HOOD
11 31 13.A5	FRIGIDARE ELECTRIC WALL OVEN
11 52 00.A2	LG 47" LED LCD TV
12 35 30.13	IKEA KITCHEN CASEWORK
12 36 13.A01	TRUEFORM KITCHEN CONCRETE SINK AND COUNTERTOP
12 58 13	CAPPELLINI: ELAN COUCH
12 58 19.A01	CAPPELLINI FRONZONI DINING ROOM TABLE
12 58 19.A02	CAPPELLINI BAC CHAIR
12 58 23.A01	CAPPELLINI SMOKE COFFEE TABLE
21 10 00	VIKING WATER-BASED FIRE-SUPPRESSION SYSTEMS
22 41 00.A04	MOEN 90 DEGREE CHROME FAUCET
23 37 13.A1	WALL MOUNTED REGISTER
26 27 26.A1	LUTRON SINGLE POLE SWITCH
26 27 26.A5	LUTRON DUPLEX GFCI RECEPTACLE
26 27 26.A6	LUTRON DUPLEX RECEPTACLE
26 27 26.A10	LUTRON DATA RECEPTACLE
26 51 00.C01	ACCOLADE 3 WALL RECESS LIGHT FIXTURE
26 51 00.F01	ARRIS 5 TOP OF WALL RECESSED LIGHT FIXTURE

**SHEET KEYNOTES**

1. CABINETS MOUNTED ON WOOD BLOCK
2. TRAP AND PLUMBING FOR SINK TO BE CONCEALED IN TRUFORM COUNTER TOP
3. KITCHEN BACKSPLASH TO BE CONCRETE WALL
4. ACCOLADE TO BE INSTALLED ONSITE AND REMOVED FOR EACH SHIPMENT
5. PROPOSED LOCATION FOR DATALOGGER ENCLOSURE



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	ADVANCED SOLAR PRODUCTS (908) 751-5818
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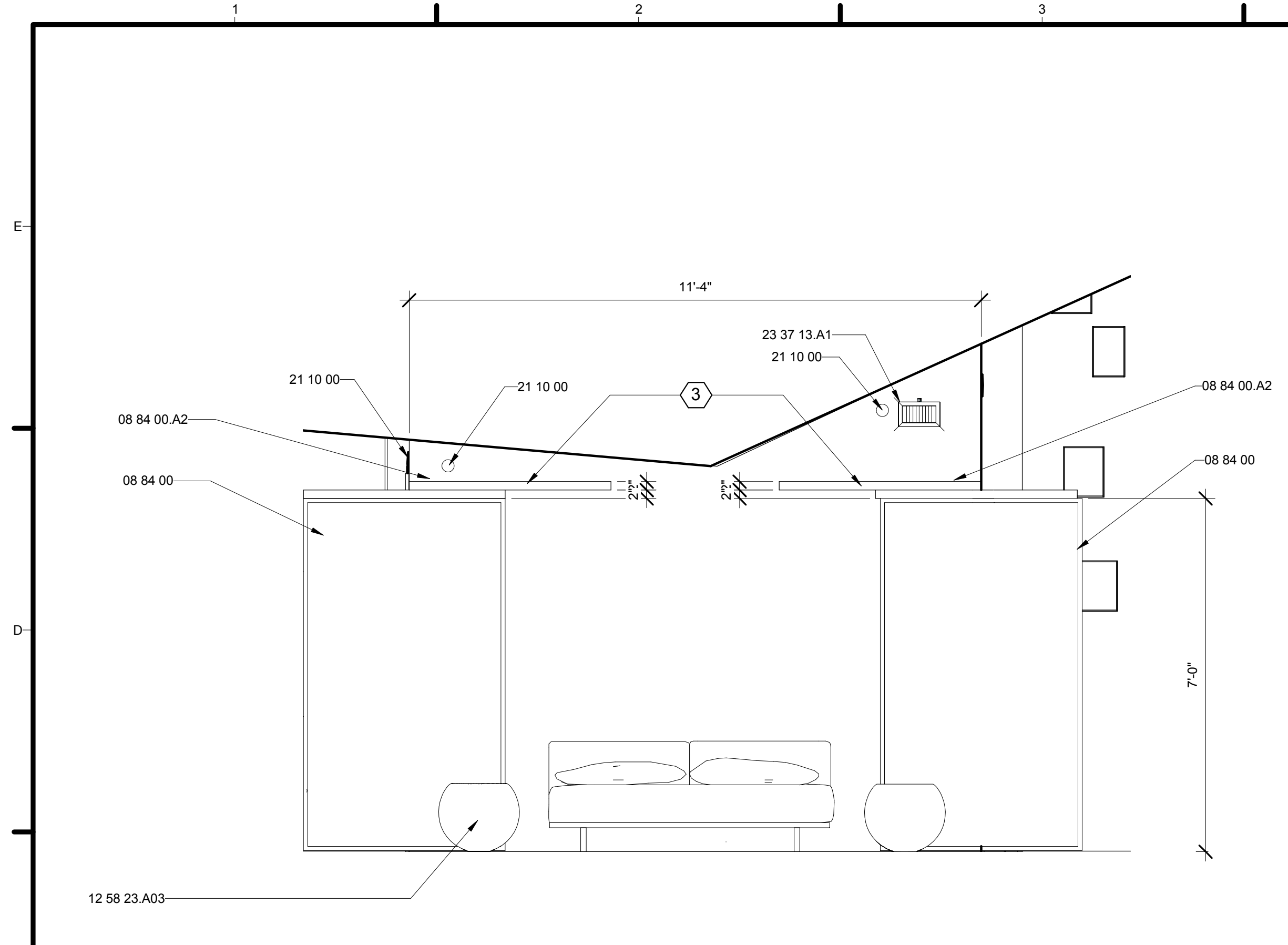


MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
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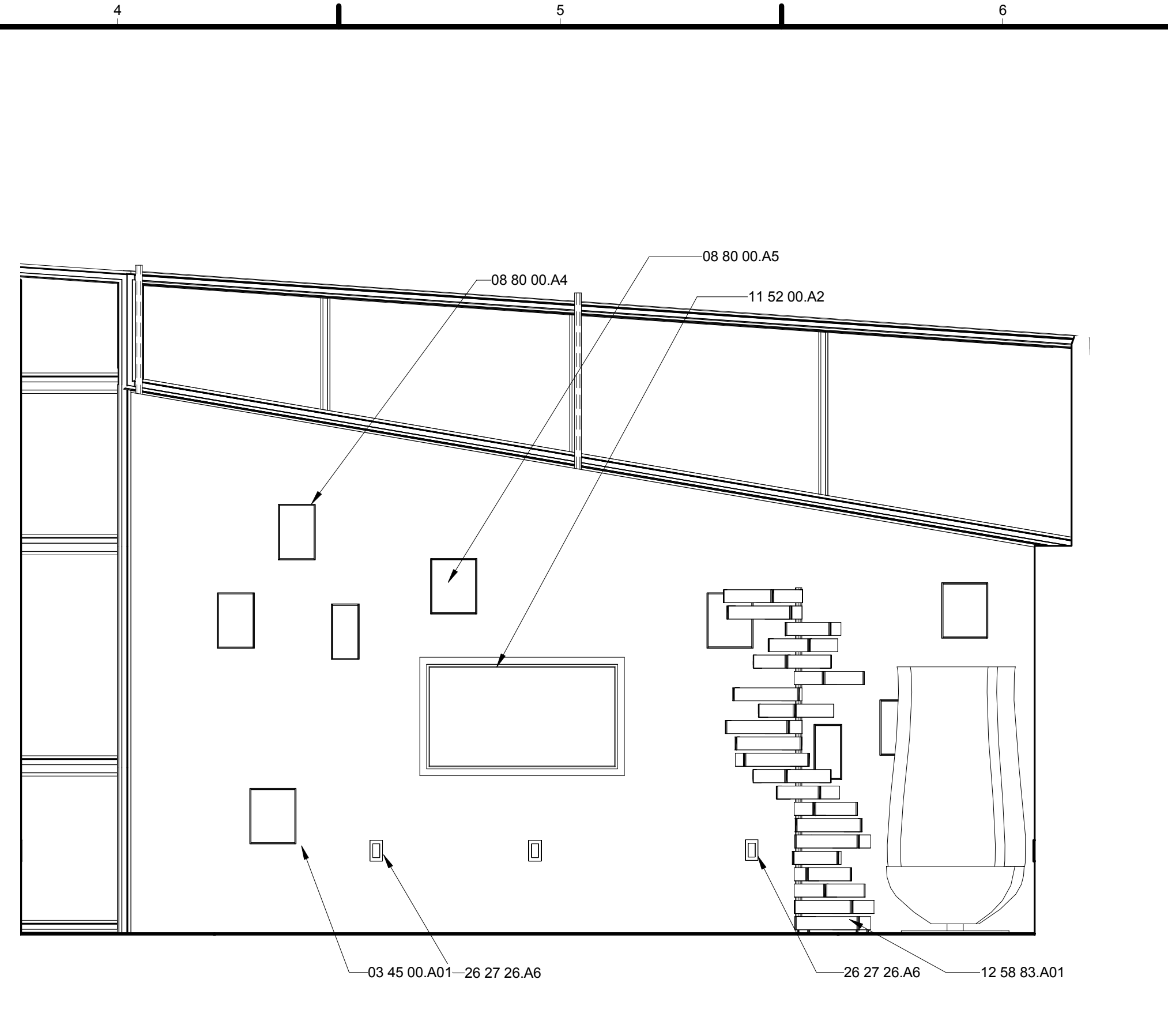
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SHEET TITLE  
**INTERIOR ELEVATIONS**

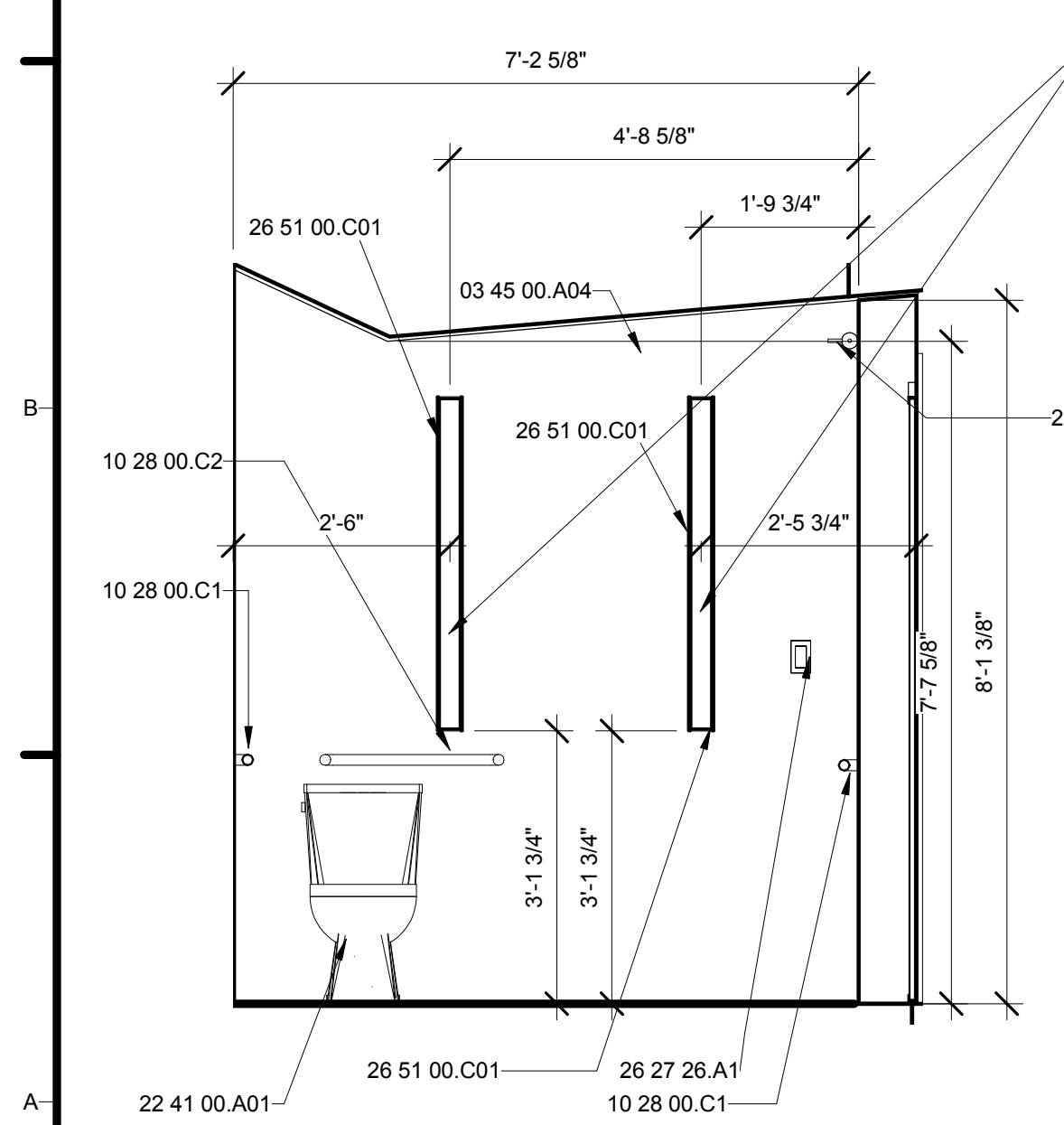
**I-201**



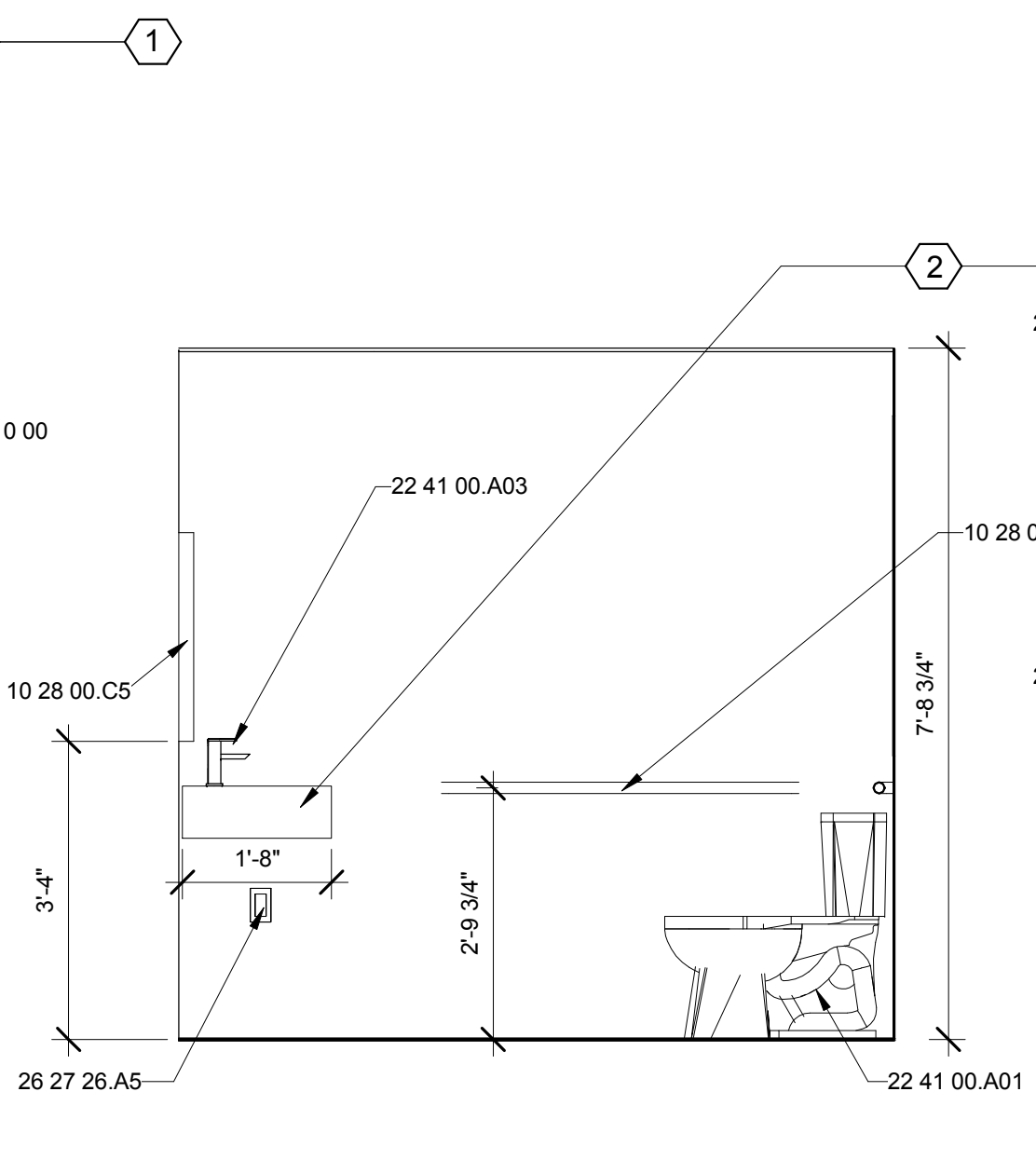
**C1 INTERIOR BEDROOM ELEVATION 1**  
1/2" = 1'-0"  
0 1' 2' 4'



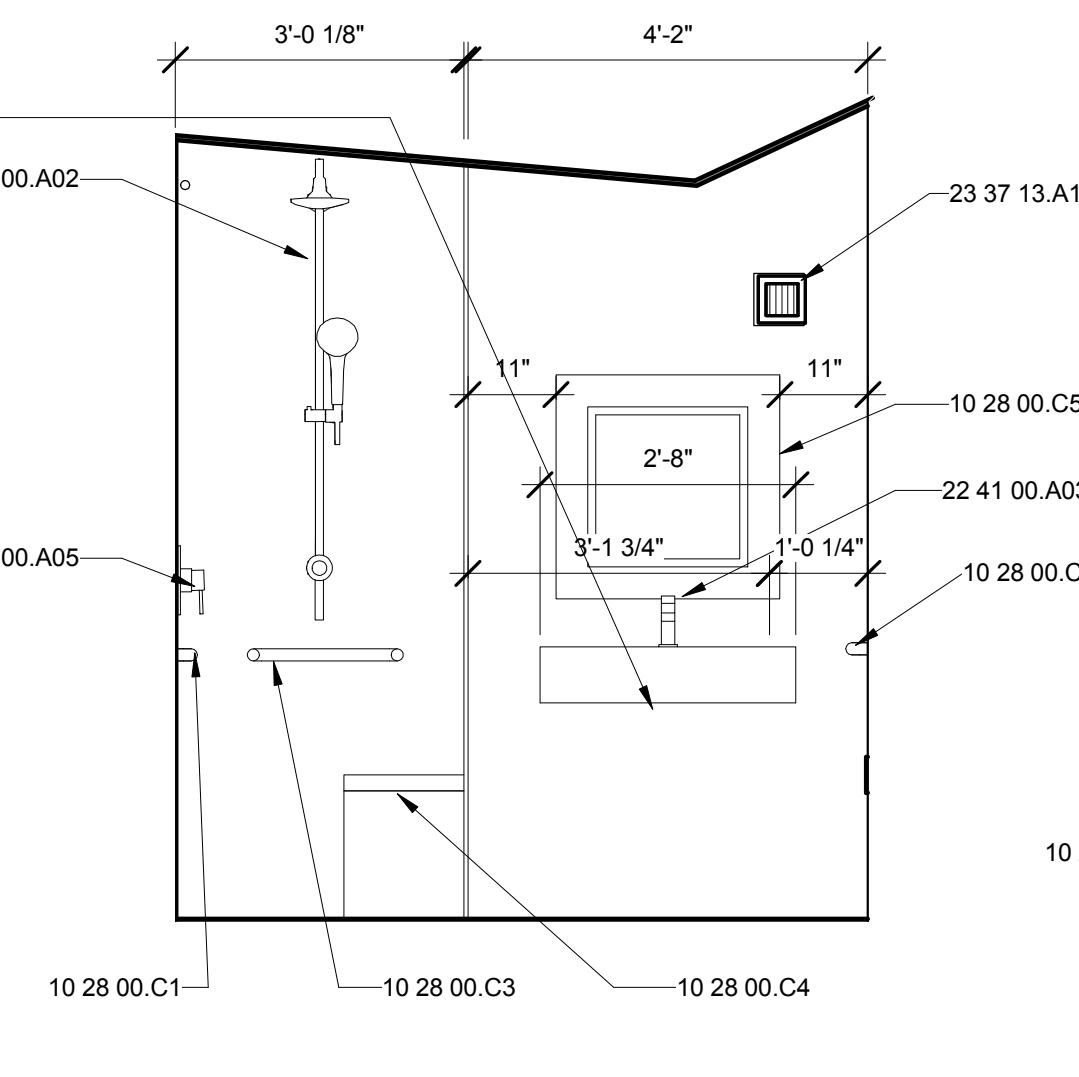
**C4 INTERIOR BEDROOM ELEVATION 2**  
1/2" = 1'-0"  
0 1' 2' 4'



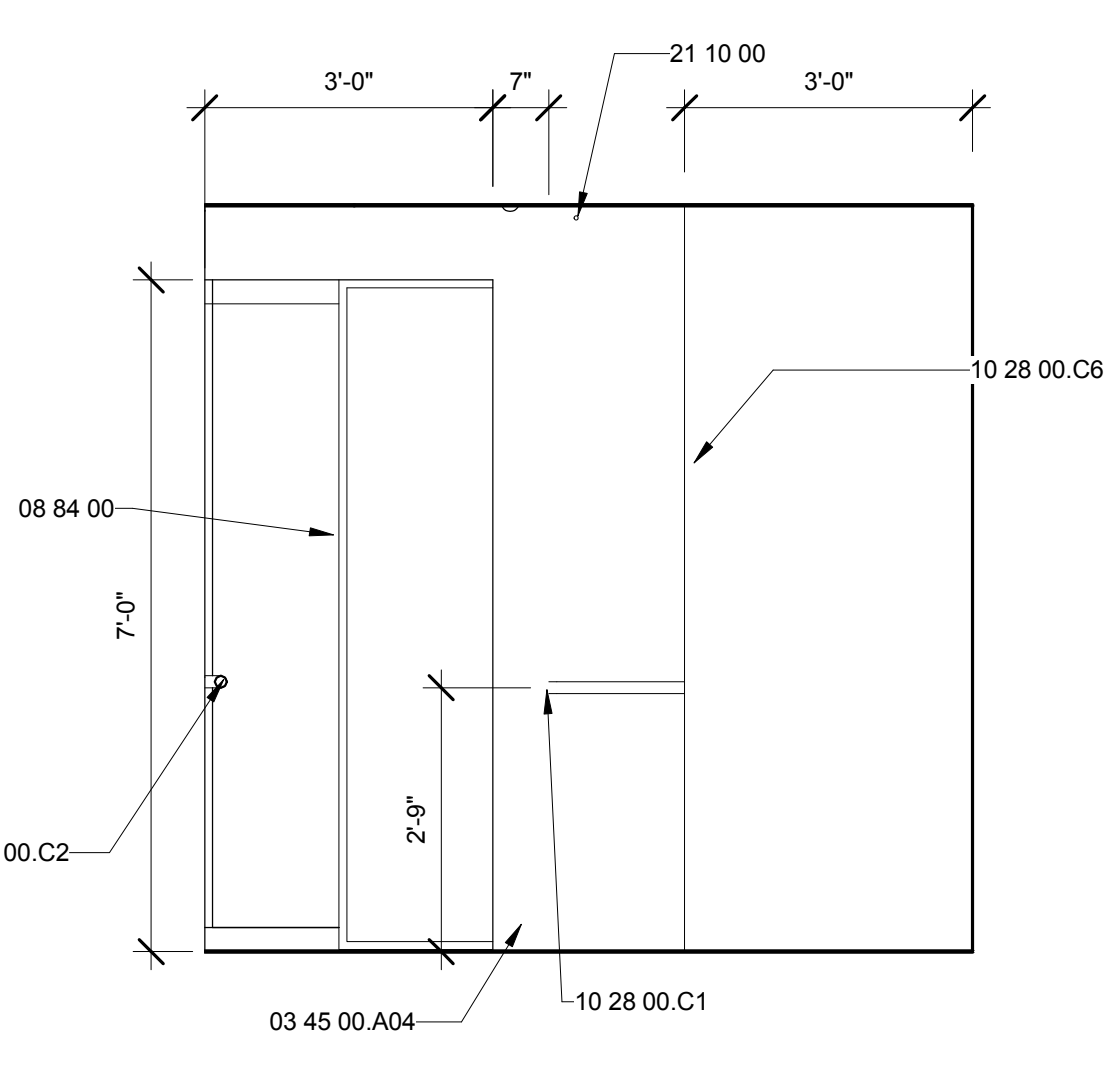
**A1 INT. BATHROOM ELEV. 1**  
1/2" = 1'-0"  
0 1' 2' 4'



**A2 INT. BATHROOM ELEV. 2**  
1/2" = 1'-0"  
0 1' 2' 4'



**A4 INT. BATHROOM ELEV. 3**  
1/2" = 1'-0"  
0 1' 2' 4'



**A5 INT. BATHROOM ELEV. 4**  
1/2" = 1'-0"  
0 1' 2' 4'

**GENERAL SHEET NOTES**

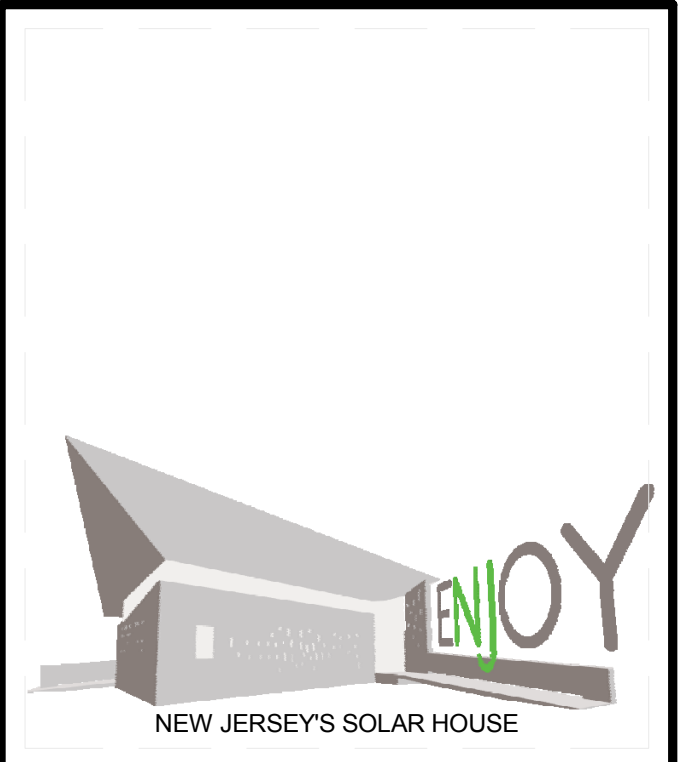
1. FINISH OF ALL INTERIOR WALLS SHALL BE A SMOOTH ARCHITECTURAL CONCRETE.
2. TOP OF BATHROOM SINK TO BE MOUNTED AT 34" A.F.F.
3. I.G. UNITS TO BE INSTALLED ON SITE.
4. ALL ELECTRICAL OUTLET AND LIGHT SWITCH FACE PLATES ARE TO HAVE A BRUSHED STAINLESS STEEL FINISH.
5. THE HAND SHOWER IS TO BE MOUNTED AT 48" A.F.F.
6. ALL ACCOLADE 3 LIGHTS ARE TO BE MOUNTED FLUSH TO FINISH OF INTERIOR WALLS.

**REFERENCE KEYNOTES**

03 45 00.A01	PIP WALL ASSEMBLY
03 45 00.A04	PRECAST CONCRETE COLUMN
08 80 00.A4	8" PERFORATION
08 80 00.A5	10" PERFORATION
08 84 00	PANELITE PLASTIC GLAZING
08 84 00.A2	SLIDING DOOR RAIL
10 28 00.C1	KOHLER PURIST 48" GRAB BAR
10 28 00.C2	KOHLER PURIST 36" GRAB BAR
10 28 00.C3	KOHLER PURIST 18" GRAB BAR
10 28 00.C4	CONCRETE SHOWER BENCH
10 28 00.C5	BELLACOR BATHROOM MIRROR
10 28 00.C6	GLASS CRAFTERS GLASS SHOWER DOOR
11 52 00.A2	LG 47" LED LCD TV
12 58 23.A03	CAPPELLINI BONG SIDE TABLE
12 58 83.A01	CAPPELLINI REVOLVING CABINET
21 10 00	VIKING WATER-BASED FIRE-SUPPRESSION SYSTEMS
22 41 00.A01	KOHLER SAN RAPHAEL WATER CLOSET
22 41 00.A02	EUPHORIA WALL MOUNTED DIVERTER SHOWER SYSTEM
22 41 00.A03	MOEN 90 DEGREE CHROME FAUCET
22 41 00.A05	GROHE ALLURE PRESSURE BALANCE VALVE TRIM
23 37 13.A1	WALL MOUNTED REGISTER
26 27 26.A1	LUTRON SINGLE POLE SWITCH
26 27 26.A5	LUTRON DUPLEX GFCI RECEPTACLE
26 27 26.A6	LUTRON DUPLEX RECEPTACLE
26 51 00.C01	ACCOLADE 3 WALL RECESS LIGHT FIXTURE

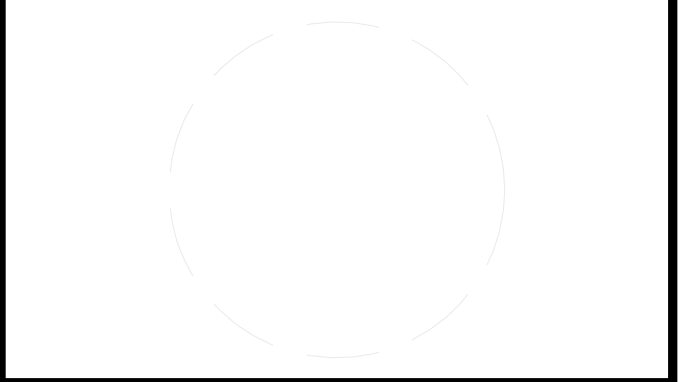
**SHEET KEYNOTES**

1. ACCOLADE TO BE INSTALLED ON SITE AND REMOVED FOR EVERY SHIPMENT
2. TRUFORM SINK INSTALLED ON MOUNTING BRACKETS PRECAST INTO CONCRETE
3. PANELITE TRACK SYSTEM TO BE INSTALLED ON SITE AND REMOVED FOR EACH SHIPMENT



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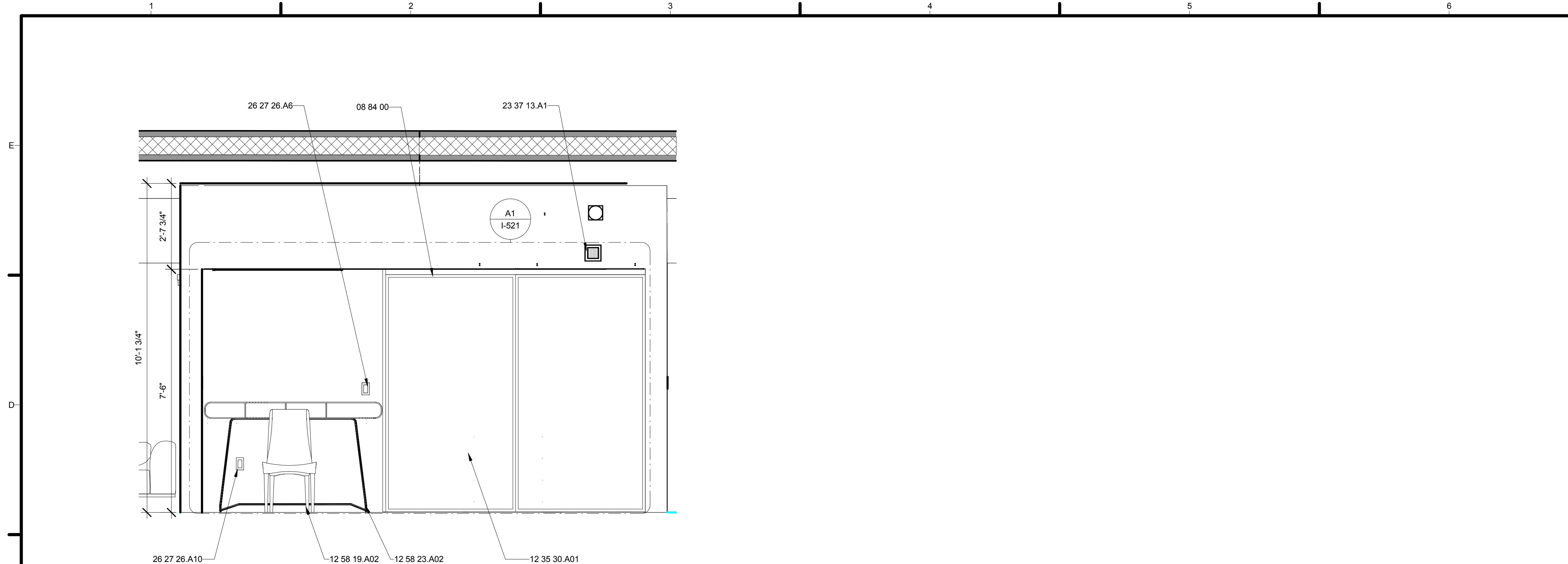
LOT NUMBER: LOT 104  
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SHEET TITLE  
**INTERIOR ELEVATIONS**

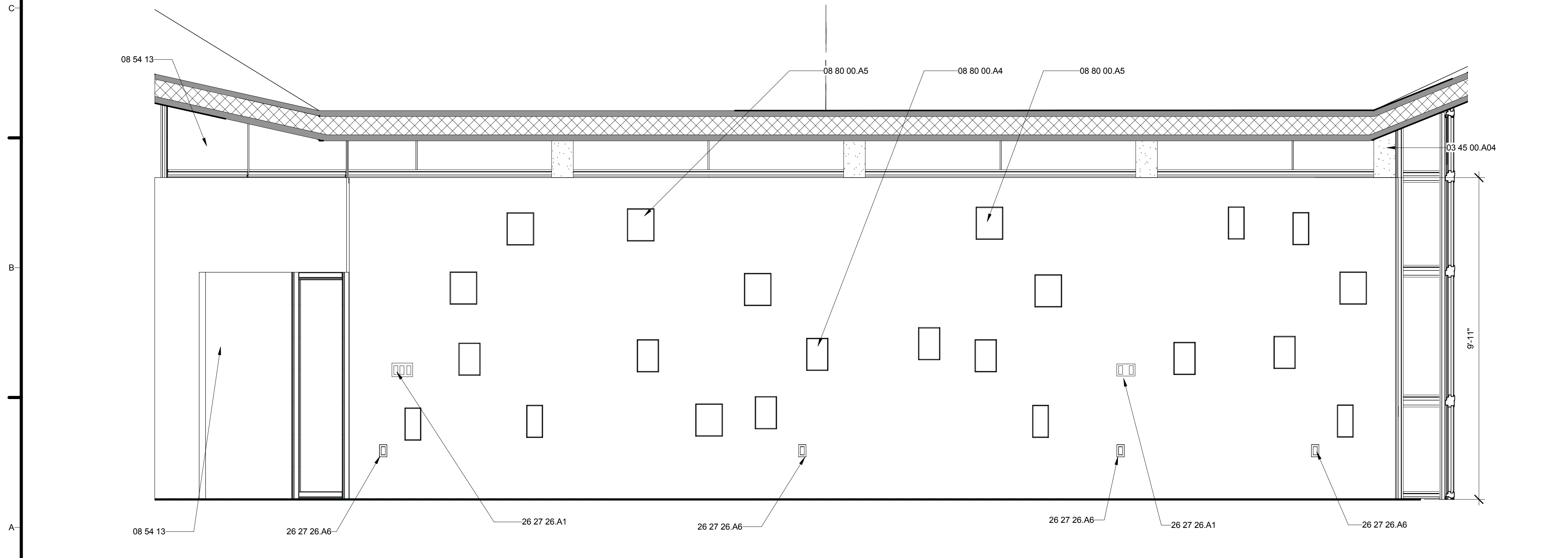
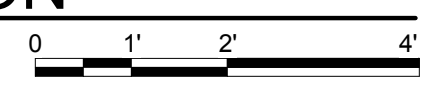
**I-202**



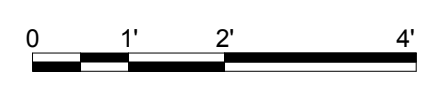




**C1** INTERIOR STORAGE CLOSET ELEVATION  
1/2" = 1'-0"



**A1** INTERIOR NORTH WALL ELEVATION  
1/2" = 1'-0"



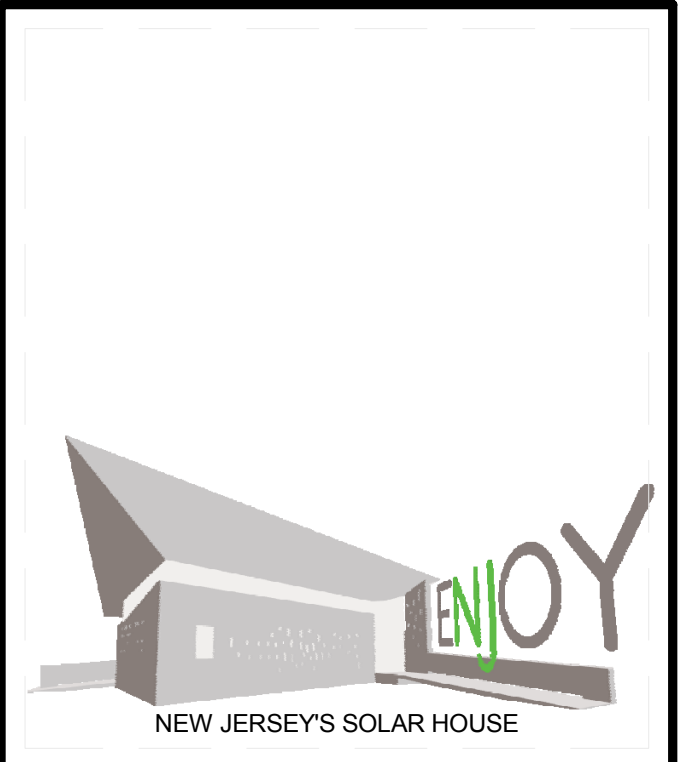
**GENERAL SHEET NOTES**

1. FINISH OF ALL INTERIOR WALLS SHALL BE A SMOOTH ARCHITECTURAL CONCRETE
2. I.G. UNITS TO BE INSTALLED ON SITE
3. ALL ELECTRICAL OUTLET AND LIGHT SWITCH FACE PLATES ARE TO HAVE A BRUSHED STAINLESS STEEL FINISH
4. ALL ACCOLADE 3 LIGHTS ARE TO BE MOUNTED FLUSH TO FINISH OF INTERIOR WALLS

**REFERENCE KEYNOTES**

03 45 00.A04	PRECAST CONCRETE COLUMN
08 54 13	FIBERGLASS WINDOWS
08 80 00.A4	8" PERFORATION
08 80 00.A5	10" PERFORATION
08 84 00	PANELITE PLASTIC GLAZING
12 35 30.A01	IKEA CLOSET STORAGE UNIT
12 58 19.A02	CAPPELLINI BAC CHAIR
12 58 23.A02	CAPPELLINI LOOP DESK
23 37 13.A1	WALL MOUNTED REGISTER
26 27 26.A1	LUTRON SINGLE POLE SWITCH
26 27 26.A6	LUTRON DUPLEX RECEPTACLE
26 27 26.A10	LUTRON DATA RECEPTACLE

**SHEET KEYNOTES**



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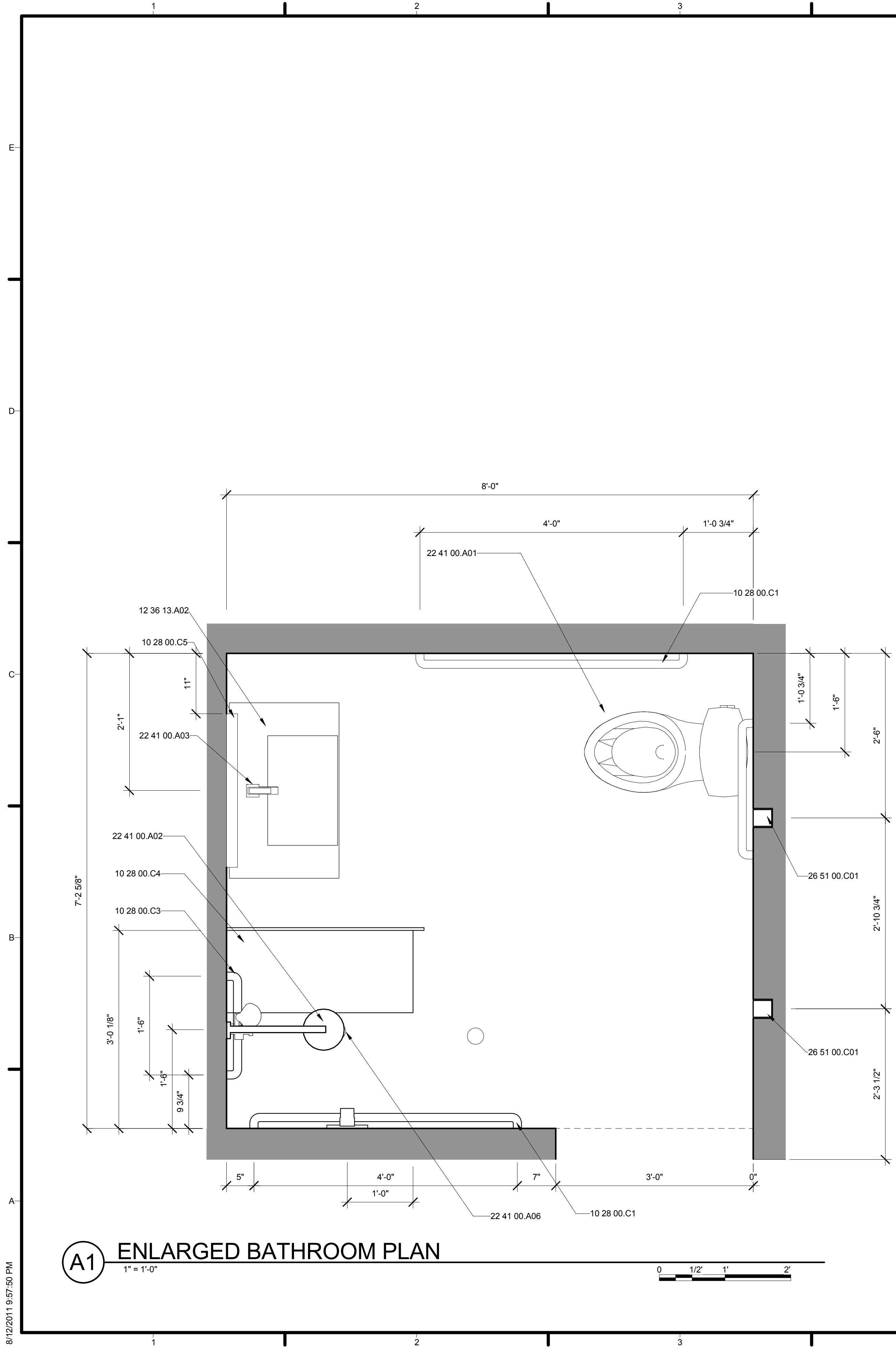
MARK	DATE	DESCRIPTION
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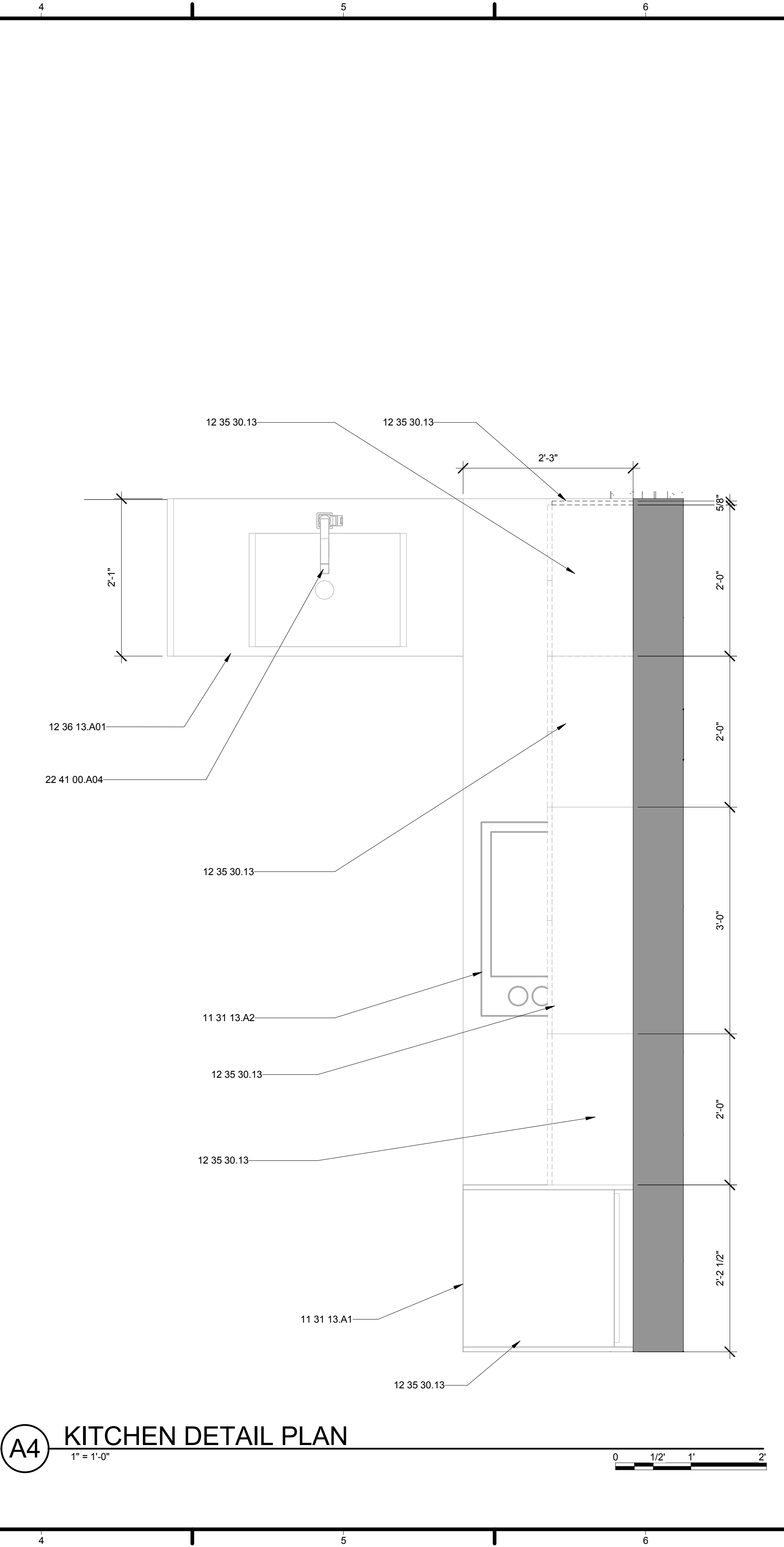
SHEET TITLE  
**INTERIOR ELEVATIONS**

**I-204**





**A1 ENLARGED BATHROOM PLAN**  
1" = 1'-0"



**A4 KITCHEN DETAIL PLAN**  
1" = 1'-0"

**GENERAL SHEET NOTES**

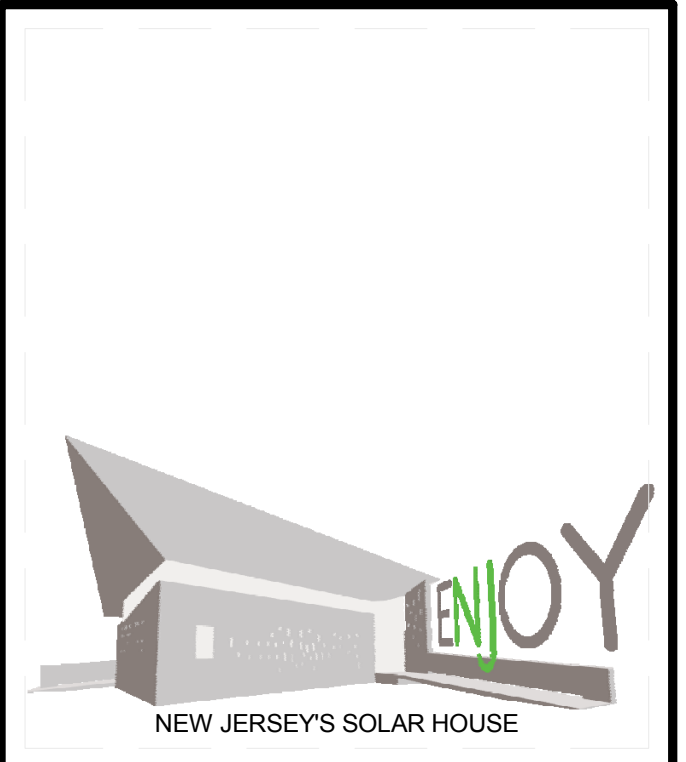
1. FINISH OF ALL INTERIOR FLOORS SHALL BE A SMOOTH ARCHITECTURAL CONCRET.
2. ALL ACCOLADE 3 LIGHTS ARE TO BE MOUNTED FLUSH TO FINISH OF INTERIOR WALLS.

**REFERENCE KEYNOTES**

- 10 28 00.C1 KOHLER PURIST 48" GRAB BAR
- 10 28 00.C3 KOHLER PURIST 18" GRAB BAR
- 10 28 00.C4 CONCRETE SHOWER BENCH
- 10 28 00.C5 BELLACOR BATHROOM MIRROR
- 11 31 13.A1 LIEBHERR REFRIGERATOR
- 11 31 13.A2 FRIGIDARE ELECTRIC INDUCTION COOKTOP
- 11 31 13.A7 BOSCH EVOLUTION 500 SERIES DISHWASHER
- 12 35 30.13 IKEA KITCHEN CASEWORK
- 12 36 13.A01 TRUEFORM KITCHEN CONCRETE SINK AND COUNTERTOP
- 12 36 13.A02 TRUEFORM BATHROOM CONCRETE SINK
- 22 41 00.A01 KOHLER SAN RAPHAEL WATER CLOSET
- 22 41 00.A02 EUPHORIA WALL MOUNTED DIVERTER SHOWER SYSTEM
- 22 41 00.A03 MOEN 90 DEGREE CHROME FAUCET
- 22 41 00.A04 MOEN 90 DEGREE CHROME FAUCET
- 22 41 00.A06 PROLINE LINEAR DRAIN
- 26 51 00.C01 ACCOLADE 3 WALL RECESS LIGHT FIXTURE

**SHEET KEYNOTES**

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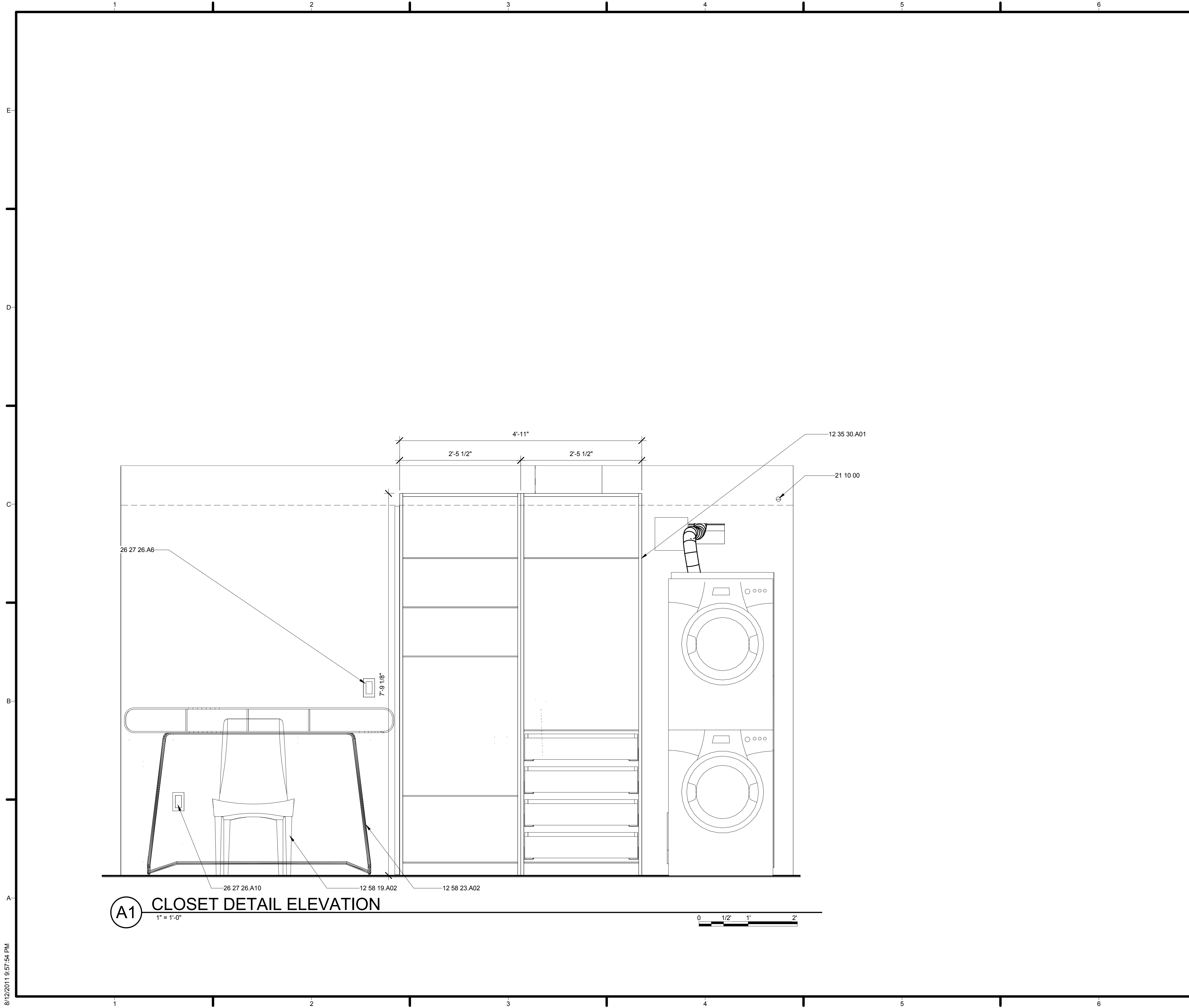
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SHEET TITLE  
**INTERIOR PLAN DETAILS**

**I-501**



**A1 CLOSET DETAIL ELEVATION**  
1" = 1'-0"



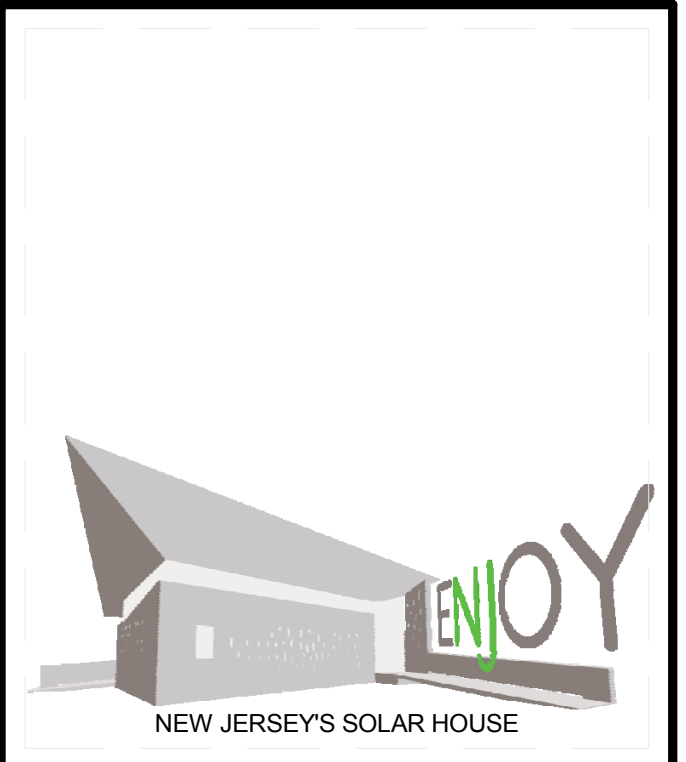
**GENERAL SHEET NOTES**

1. WASHER AND DRYER TO GET DRAIN PAN UNDERNEATH

**REFERENCE KEYNOTES**

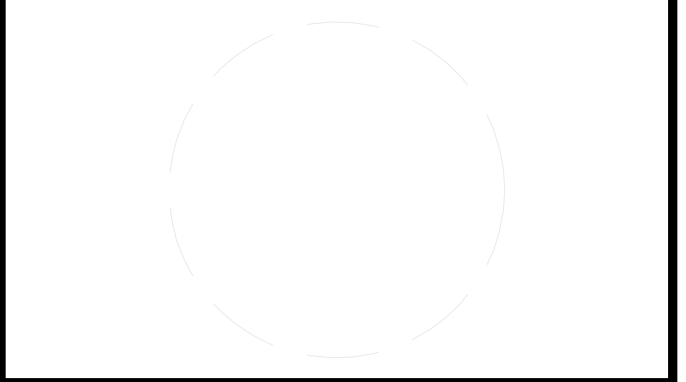
10 28 00.C6	GLASS CRAFTERS GLASS SHOWER DOOR
12 35 30.A01	IKEA CLOSET STORAGE UNIT
12 58 19.A02	CAPELLINI BAC CHAIR
12 58 23.A02	CAPELLINI LOOP DESK
21 10 00	VIKING WATER-BASED FIRE-SUPPRESSION SYSTEMS
26 27 26.A6	LUTRON DUPLEX RECEPTACLE
26 27 26.A10	LUTRON DATA RECEPTACLE

**SHEET KEYNOTES**



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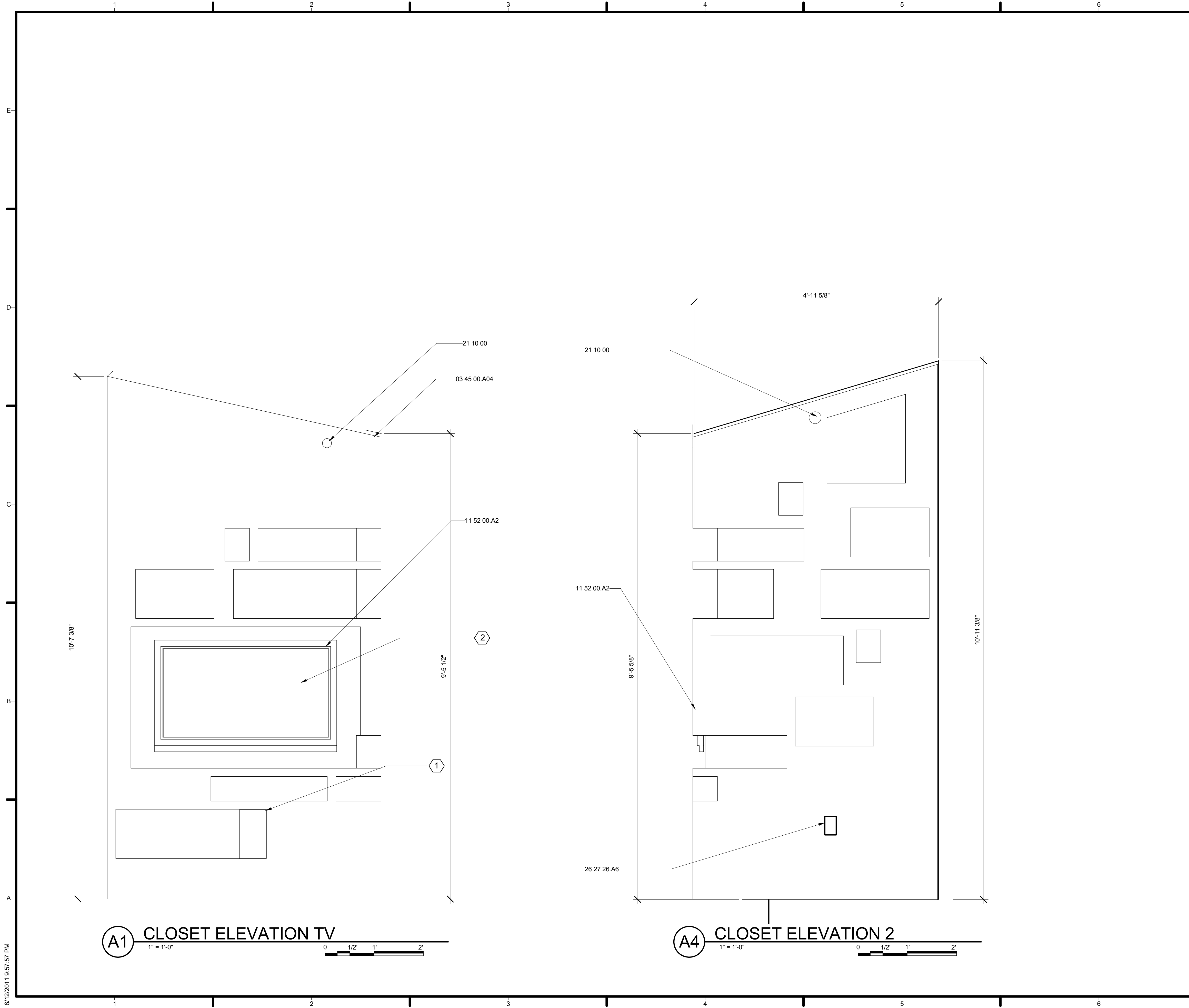
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SHEET TITLE  
**INTERIOR DESIGN  
 DETAIL ELEVATIONS**

**I-521**





**GENERAL SHEET NOTES**

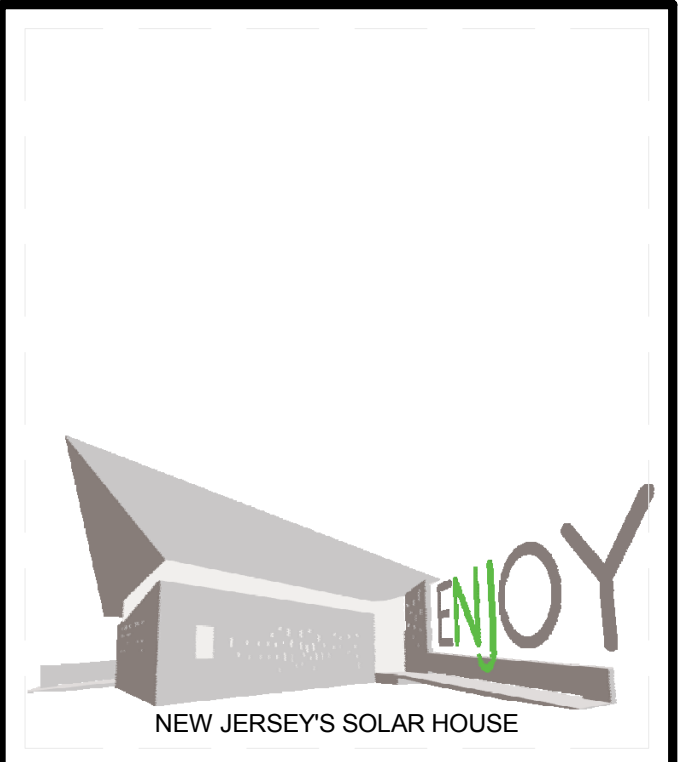
1. ALL RECESSES IN THE WALL ARE TO BE 6 INCHES DEEP, EXCEPT TV RECESS WHICH IS TO BE 4 INCHES DEEP

**REFERENCE KEYNOTES**

03 45 00.A04	PRECAST CONCRETE COLUMN
11 52 00.A2	LG 47" LED LCD TV
21 10 00	VIKING WATER-BASED FIRE-SUPPRESSION SYSTEMS
26 27 26.A6	LUTRON DUPLEX RECEPTACLE

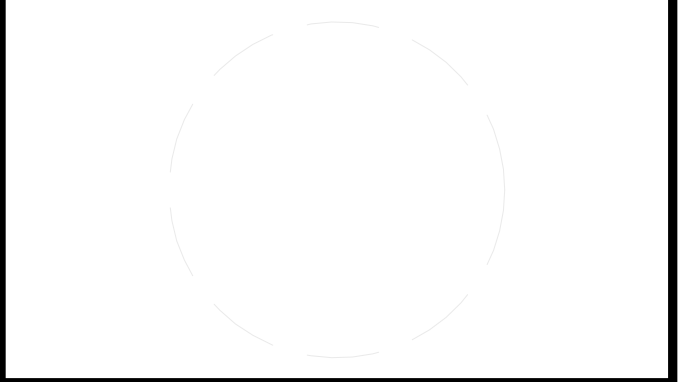
**SHEET KEYNOTES**

- 2" ACCESS TO CLOSET FOR POWERING DVD PLAYER AND WIRING TV
- 2" ACCES TO CLOSET NEEDED BEHIND TV FOR POWER AND CONNECTION TO DVD PLAYER



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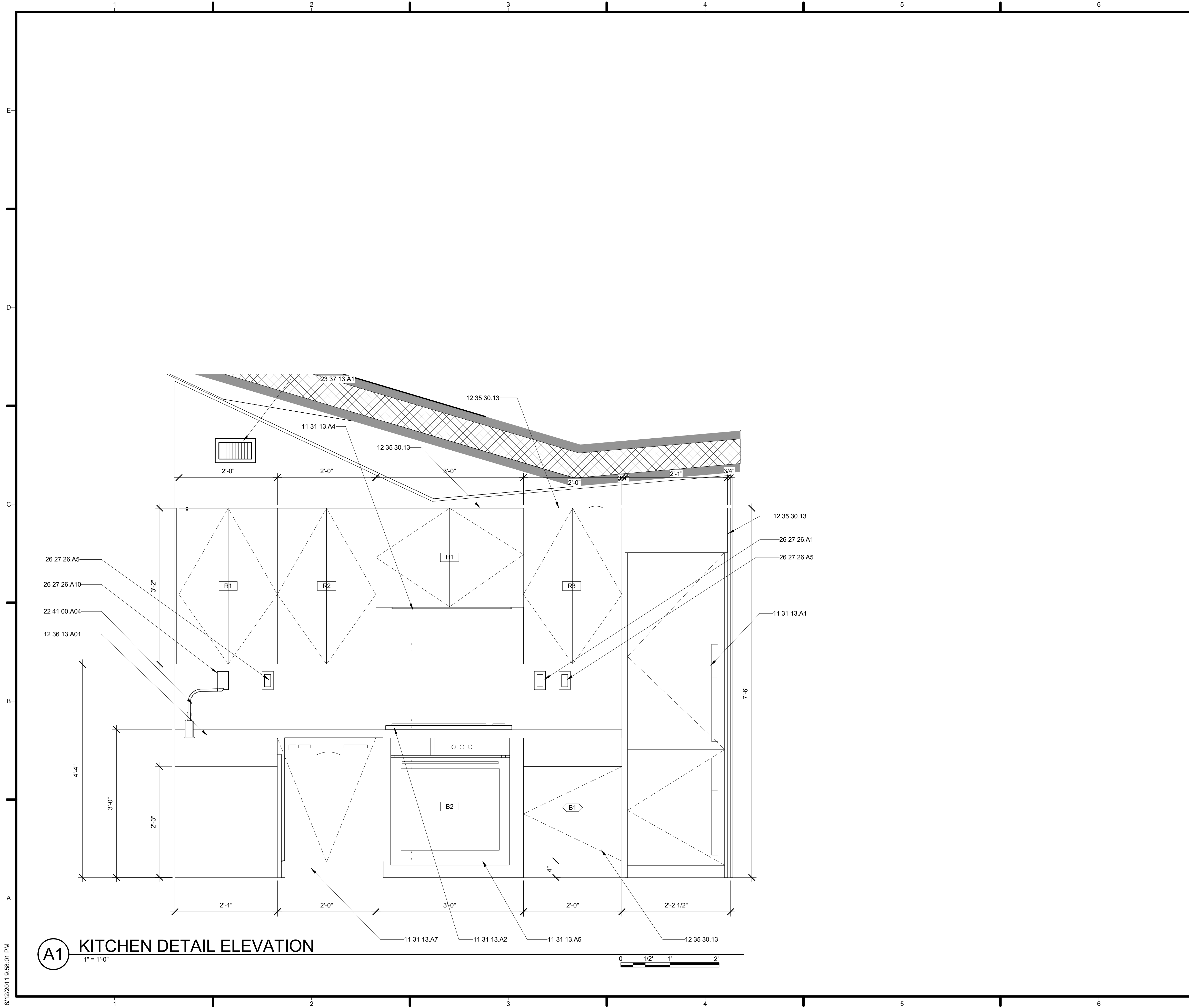


MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

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SHEET TITLE  
**INTERIOR DESIGN  
 DETAIL ELEVATION**

**I-522**



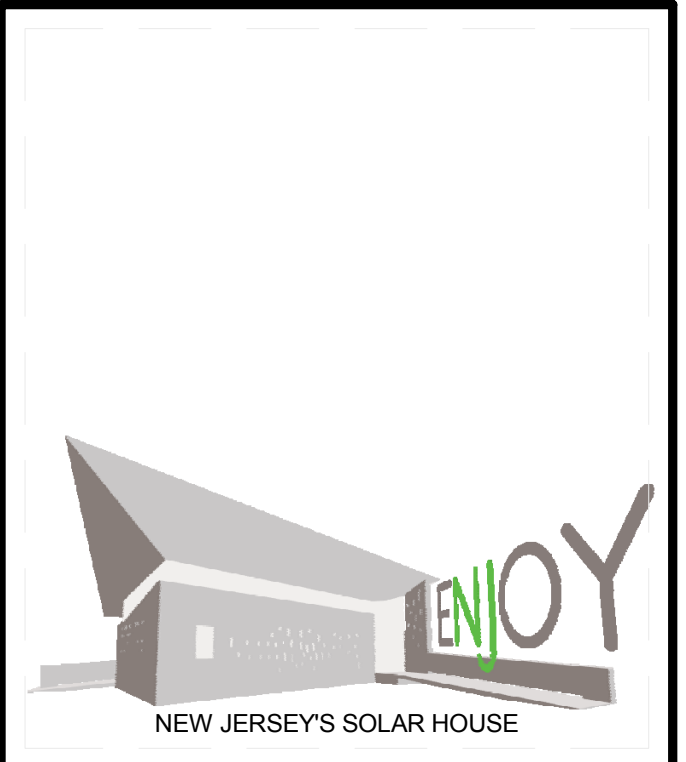
**A1** KITCHEN DETAIL ELEVATION  
1" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

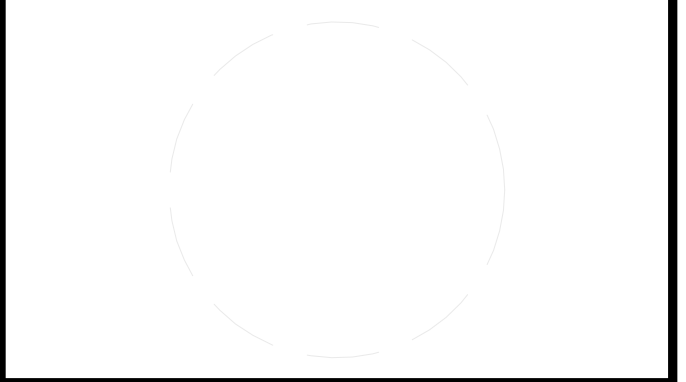
11 31 13.A1	LIEBHERR REFRIGERATOR
11 31 13.A2	FRIGIDARE ELECTRIC INDUCTION COOKTOP
11 31 13.A4	AIR KING EXHAUST HOOD
11 31 13.A5	FRIGIDARE ELECTRIC WALL OVEN
11 31 13.A7	BOSCH EVOLUTION 500 SERIES DISHWASHER
12 35 30.13	IKEA KITCHEN CASEWORK
12 36 13.A01	TRUEFORM KITCHEN CONCRETE SINK AND COUNTERTOP
22 41 00.A04	MOEN 90 DEGREE CHROME FAUCET
23 37 13.A1	WALL MOUNTED REGISTER
26 27 26.A1	LUTRON SINGLE POLE SWITCH
26 27 26.A5	LUTRON DUPLEX GFCI RECEPTACLE
26 27 26.A10	LUTRON DATA RECEPTACLE

**SHEET KEYNOTES**



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 PETRA SOLAR (732) 379-5566  
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MARK	DATE	DESCRIPTION
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A	03/22/2011	CONSTRUCTION DOCUMENTS

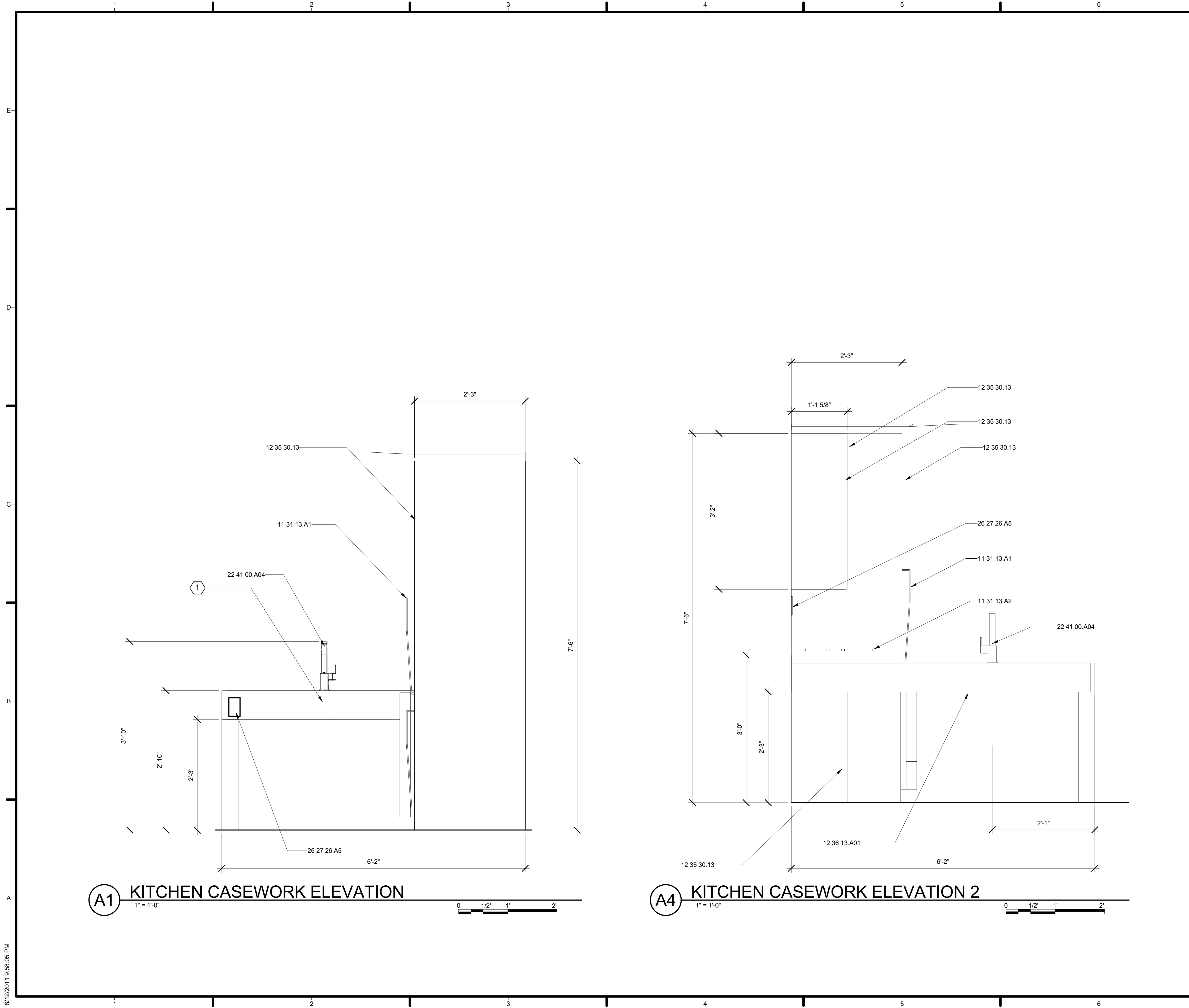
LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
 COPYRIGHT: NONE; PROJECT IS PUBLIC DOMAIN

SHEET TITLE  
**INTERIOR DESIGN  
 DETAIL ELEVATION**

**I-523**

8/12/2011 9:55:01 PM





**GENERAL SHEET NOTES**

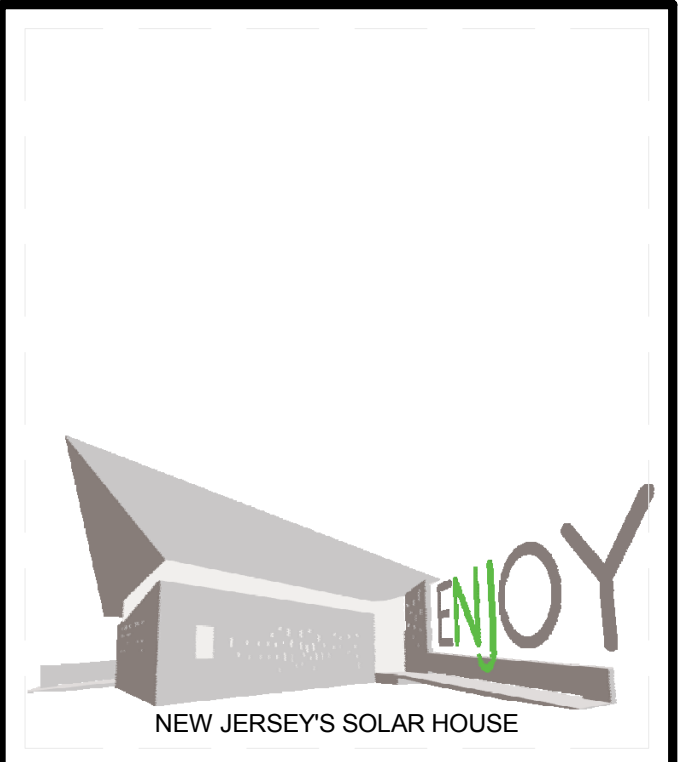
1. DIMENSIONS ARE TAKEN FROM THE FRONT FACE OF CABINETS
2. CABINET FACES ARE TO BE PANELITE AS SPECIFIED IN PANELITE CATALOGUE
3. TRUFORM COUNTER TOPS TO BE LEFT IN DURING SHIPMENT

**REFERENCE KEYNOTES**

11 31 13.A1	LIEBHERR REFRIGERATOR
11 31 13.A2	FRIGIDARE ELECTRIC INDUCTION COOKTOP
12 35 30.13	IKEA KITCHEN CASEWORK
12 36 13.A01	TRUEFORM KITCHEN CONCRETE SINK AND COUNTERTOP
22 41 00.A04	MOEN 90 DEGREE CHROME FAUCET
26 27 26.A5	LUTRON DUPLEX GFCI RECEPTACLE

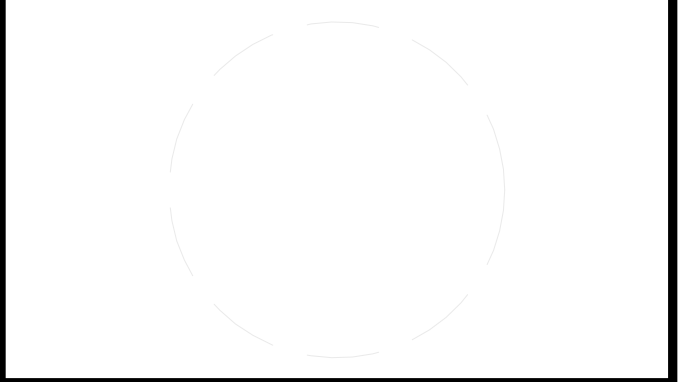
**SHEET KEYNOTES**

1. TRAP AND PLUMBING FOR SINK TO BE CONCEALED WITH FALSE WALL



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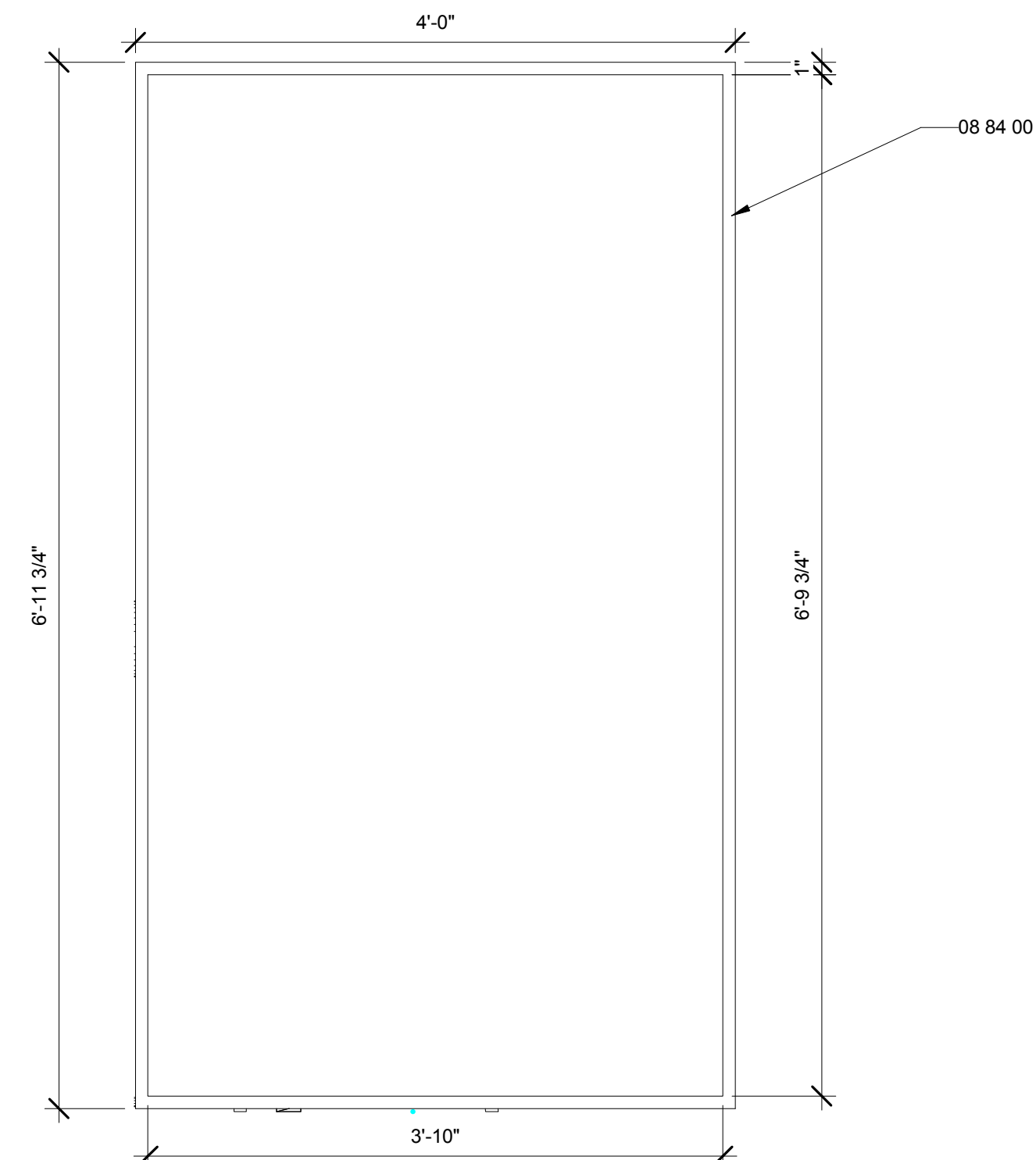


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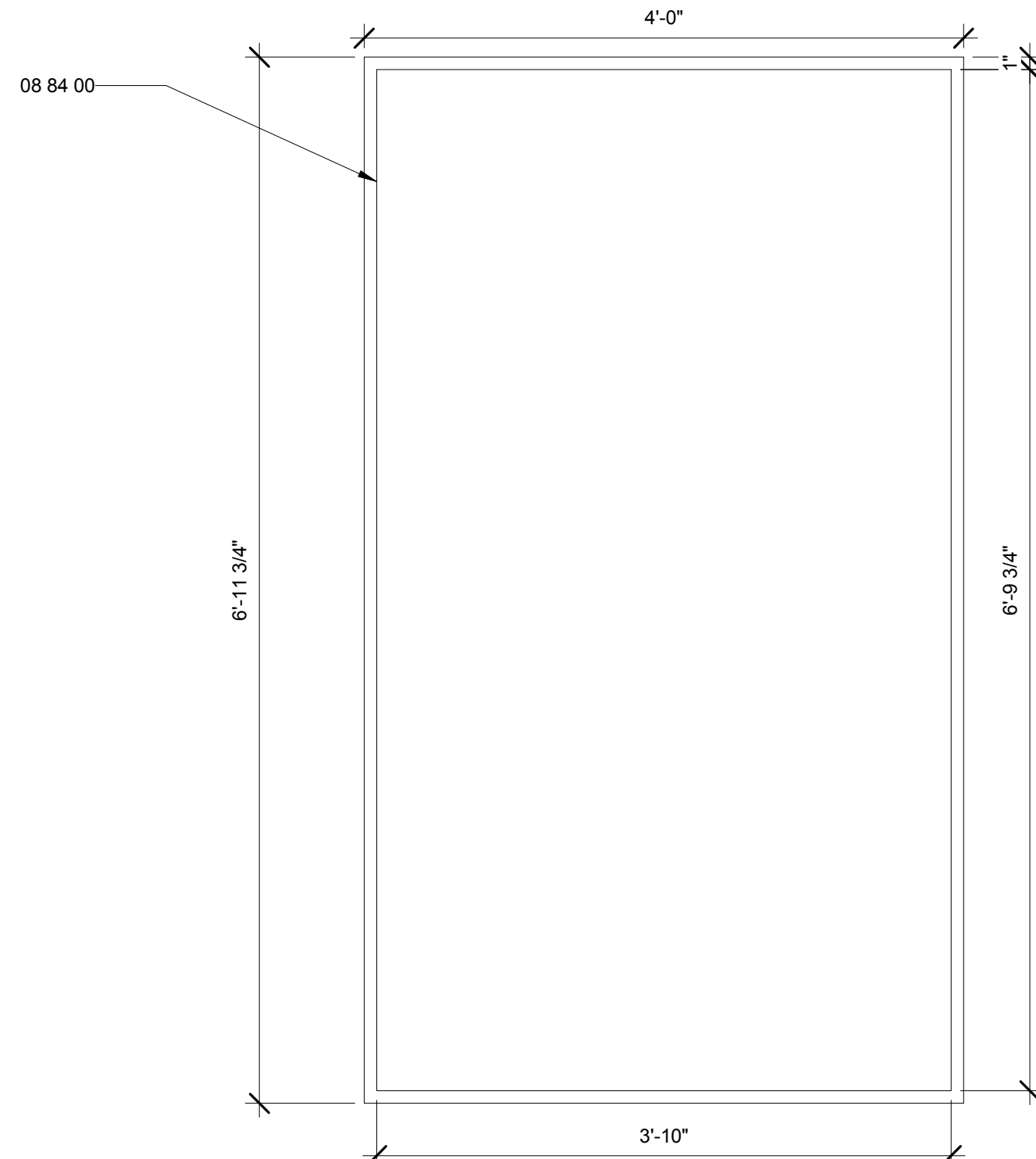
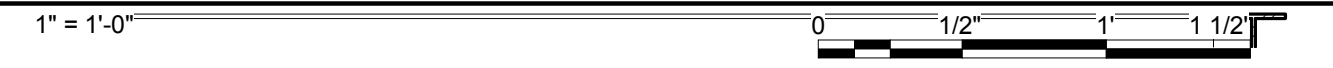
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**SHEET TITLE**  
 INTERIOR DESIGN  
 DETAIL ELEVATION

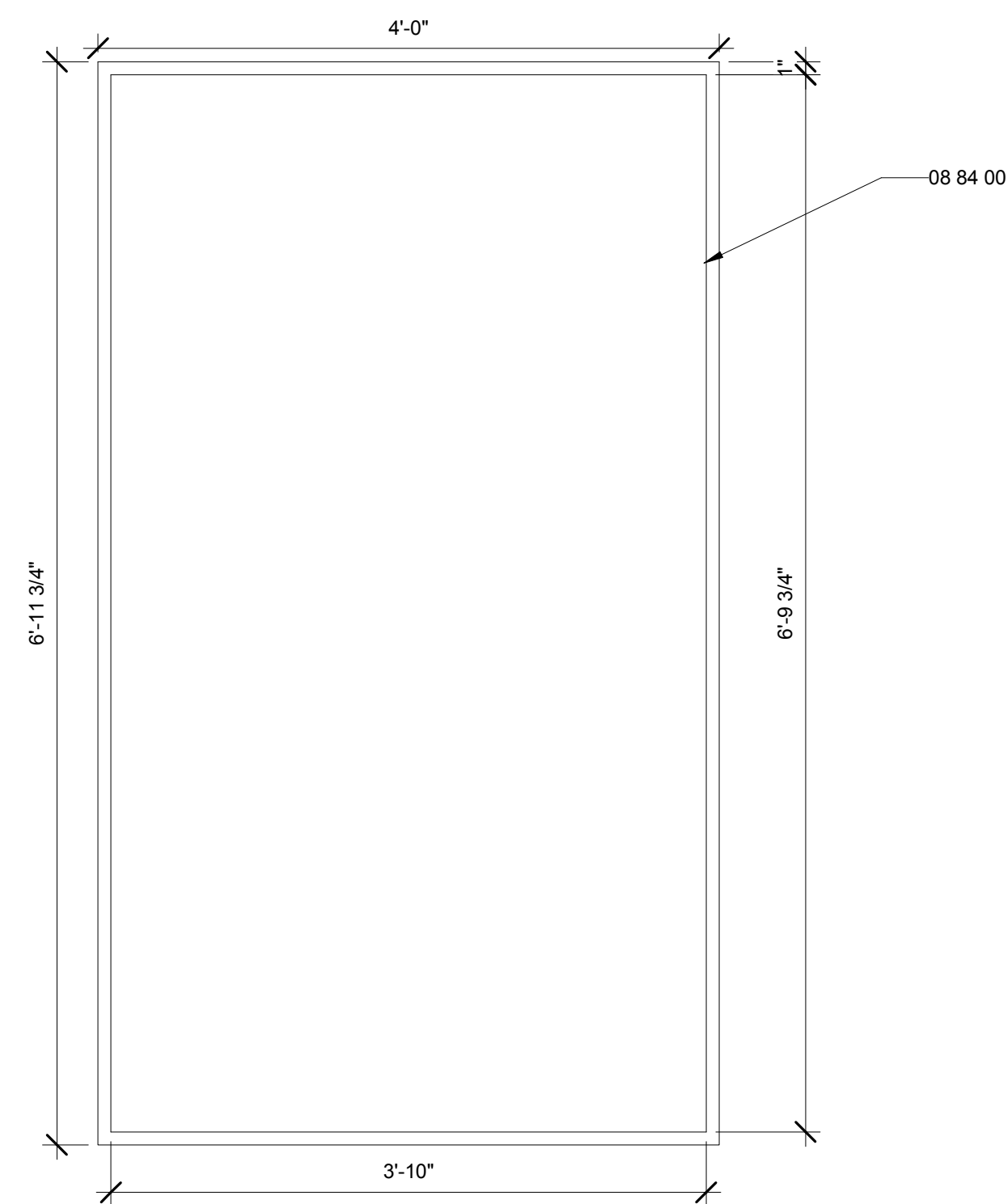
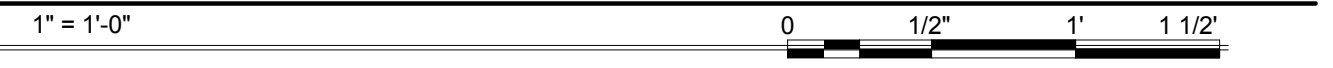
**I-524**



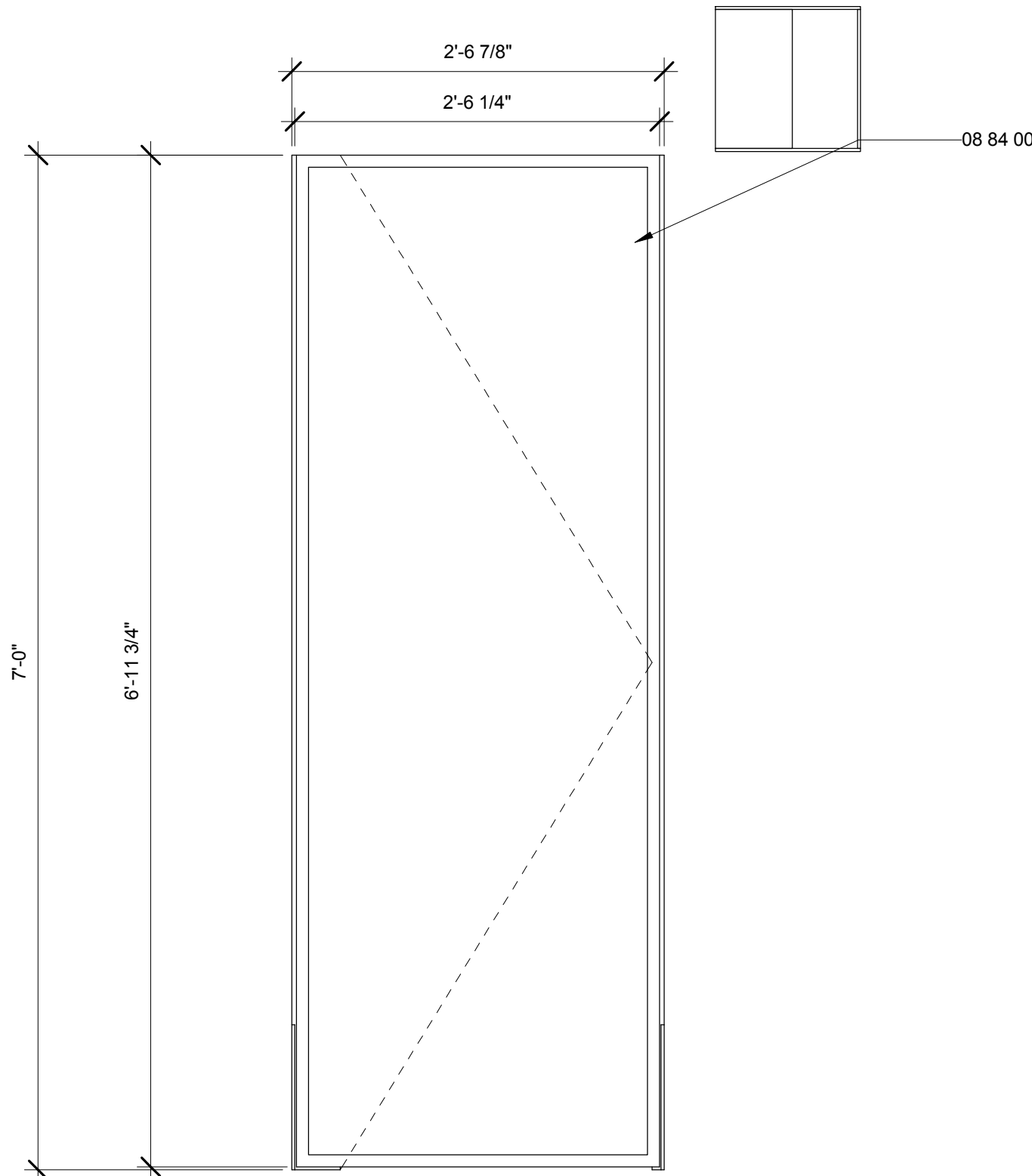
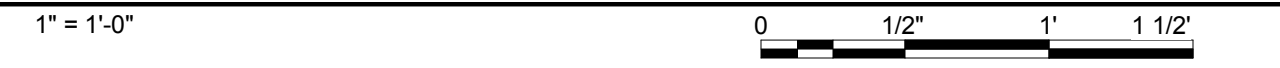
**C1** PANELITE BEDROOM 1



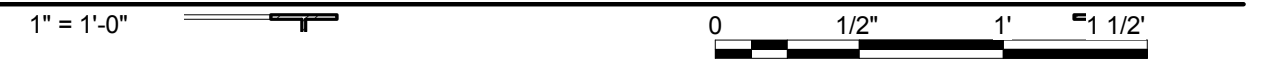
**C4** PANELITE BEDROOM 2



**A1** PANELITE BATHROOM



**A4** PANELITE ENTRY CLOSET



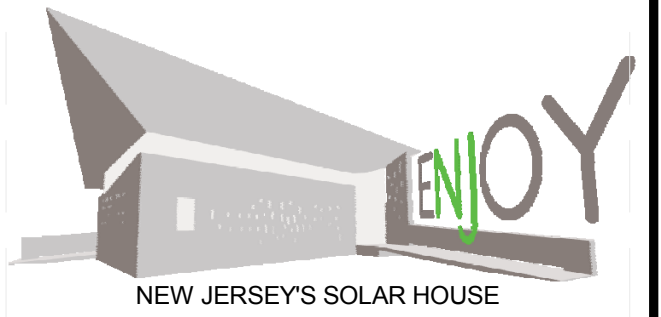
**GENERAL SHEET NOTES**

1. ALL PANELITE IS FRAMED BY 1" ALUMINUM C CHANNEL

**REFERENCE KEYNOTES**

08 84 00 PANELITE PLASTIC GLAZING

**SHEET KEYNOTES**



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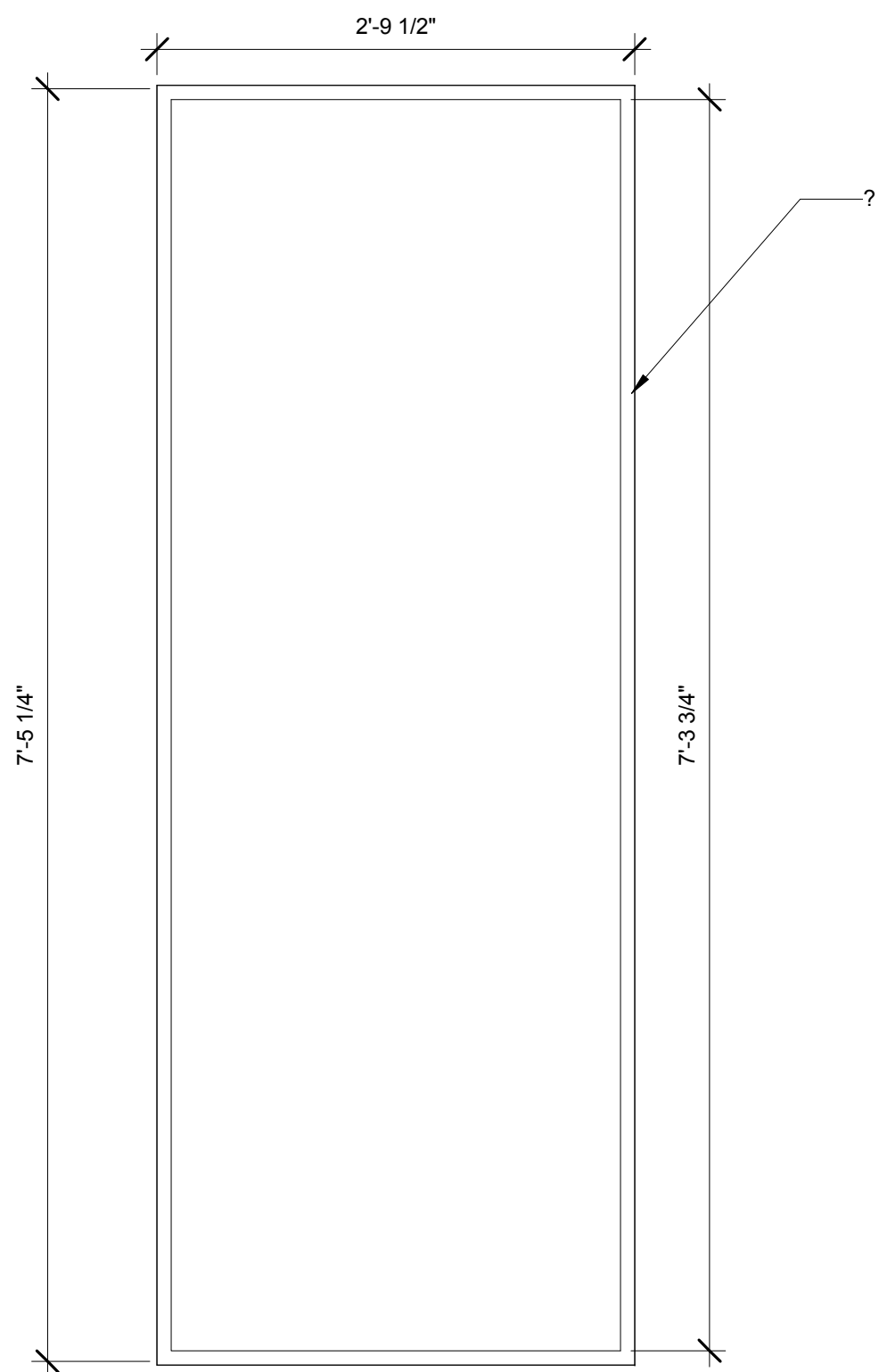
MARK	DATE	AS-BUILTS DESCRIPTION
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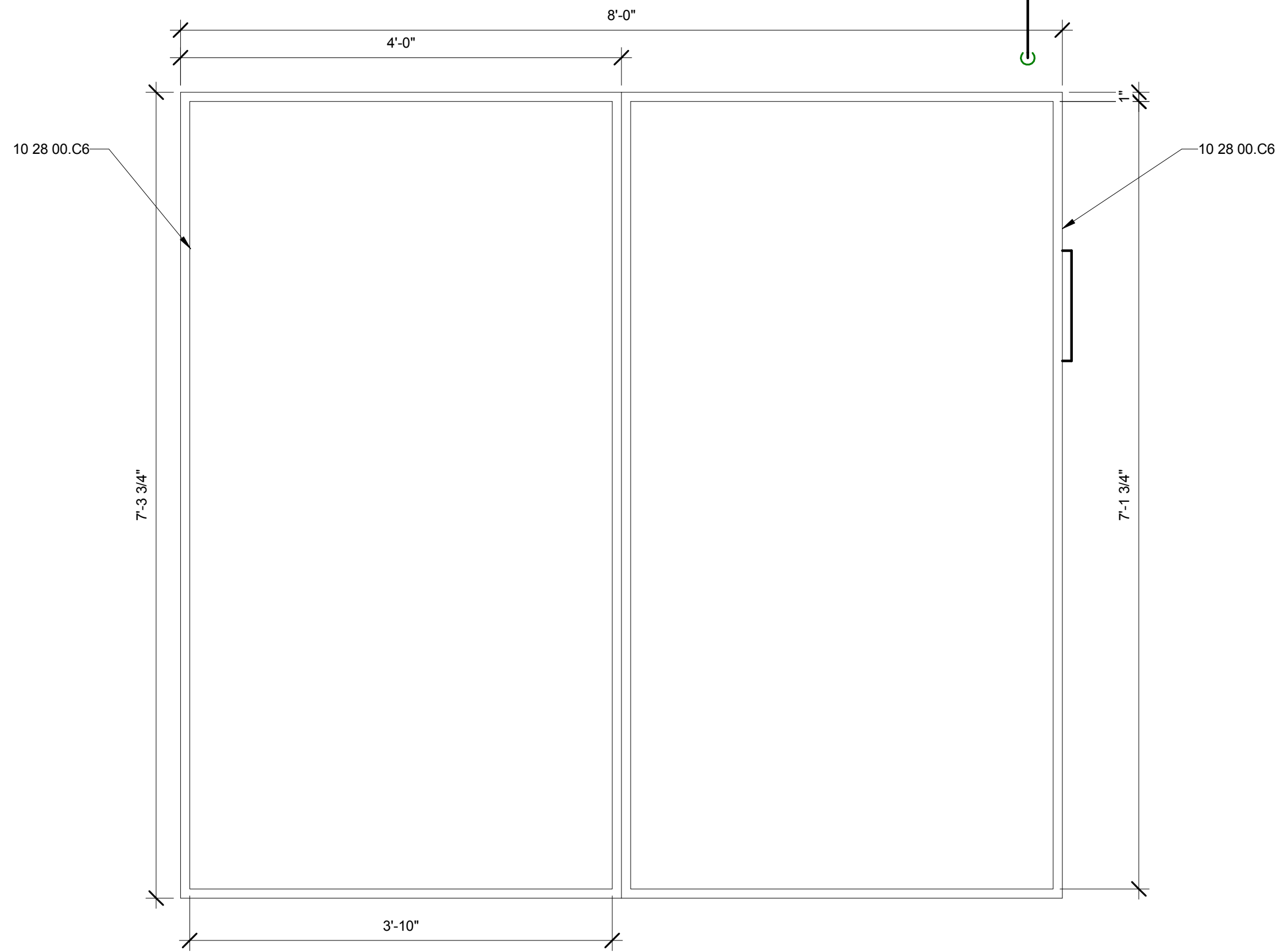
SHEET TITLE  
**PANELITE CATALOGUE**

**I-561**





**C1** PANELITE FIXED CLOSET  
1" = 1'-0"



**C4** PANELITE CLOSET  
1" = 1'-0"

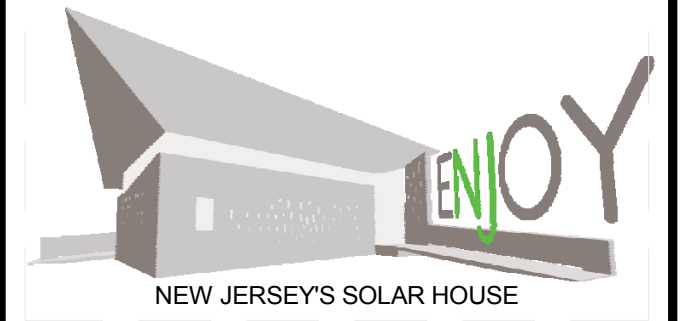
**GENERAL SHEET NOTES**

1. ALL PANELITE IS FRAMED BY 1" ALUMINUM C CHANNEL

**REFERENCE KEYNOTES**

10 28 00.C6 GLASS CRAFTERS GLASS SHOWER DOOR

**SHEET KEYNOTES**



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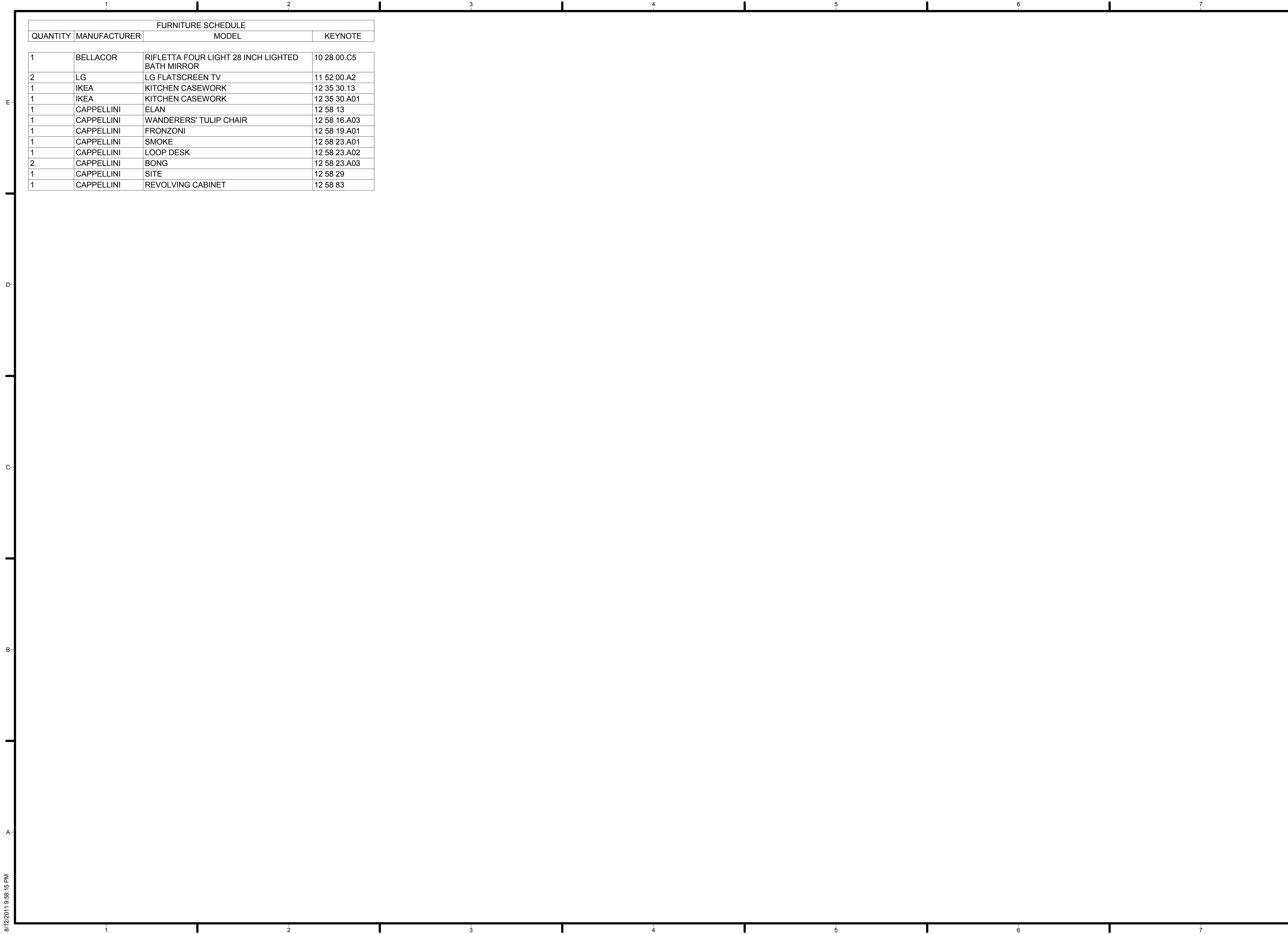
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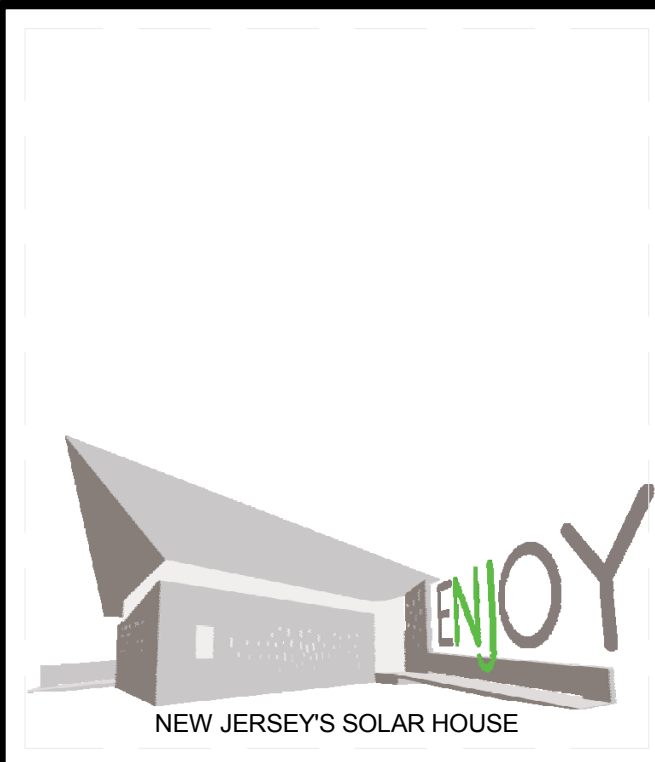
**SHEET TITLE**

PANELITE CATALOGUE

**I-562**

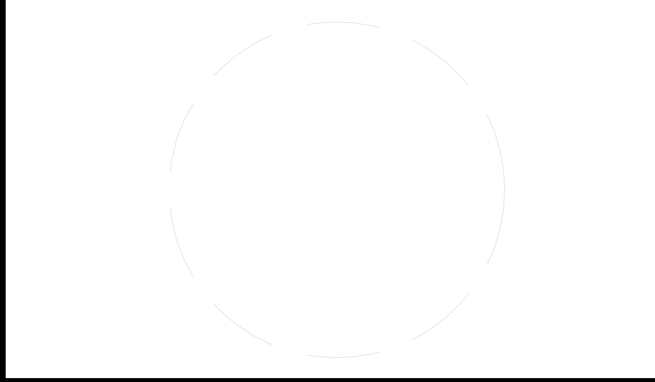


FURNITURE SCHEDULE			
QUANTITY	MANUFACTURER	MODEL	KEYNOTE
1	BELLACOR	RIFLETTA FOUR LIGHT 28 INCH LIGHTED BATH MIRROR	10 28 00.C5
2	LG	LG FLATSCREEN TV	11 52 00.A2
1	IKEA	KITCHEN CASEWORK	12 35 30.13
1	IKEA	KITCHEN CASEWORK	12 35 30.A01
1	CAPPELLINI	ELAN	12 58 13
1	CAPPELLINI	WANDERERS' TULIP CHAIR	12 58 16.A03
1	CAPPELLINI	FRONZONI	12 58 19.A01
1	CAPPELLINI	SMOKE	12 58 23.A01
1	CAPPELLINI	LOOP DESK	12 58 23.A02
2	CAPPELLINI	BONG	12 58 23.A03
1	CAPPELLINI	SITE	12 58 29
1	CAPPELLINI	REVOLVING CABINET	12 58 83



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
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SHEET TITLE  
**INTERIOR DESIGN SCHEDULES**

**I-601**



FIRE PROTECTION SYMBOL LEGEND	
MARK	DESCRIPTION
	WALL-MOUNTED SMOKE ALARM
	SIDEWALL SPRINKLER

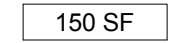

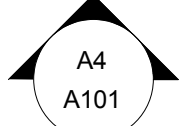
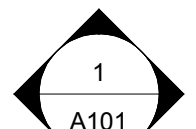


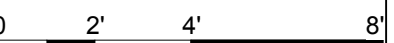
### FIRE PROTECTION ABSTRACT

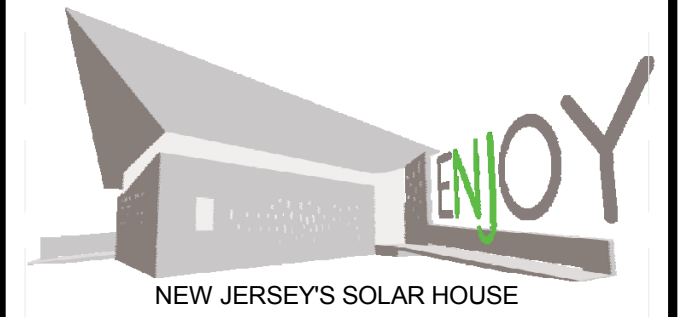
THE FIRE SUPPRESSION SYSTEM DESIGN FOR THE ENJOY HOUSE IS COMPRISED OF A FIRE SPRINKLER SYSTEM AND TWO SMOKE DETECTION ALARMS.

LIKE THE REST OF THE PLUMBING IN THE HOUSE, THE SPRINKLER SYSTEM IS CONSOLIDATED TO THE MEP CORE AT THE HOUSE'S CENTER, FACILITATING EASE OF DISASSEMBLY, SHIPPING, AND REASSEMBLY IN A NEW LOCATION WITHOUT DISMANTLING THE SPRINKLER SYSTEM.

VIKING RECESSED CONCEALED SIDEWALL SPRINKLERS ARE SELECTED FOR THEIR CLEAN, LOW-PROFILE COVER PLATES, WHICH HIDE THE SPRINKLER HARDWARE FROM VIEW. THE SPRINKLERS FACE OUTWARD FROM THE HOUSE'S CORE TO SUPPRESS FLAMES IN CASE OF EMERGENCY.

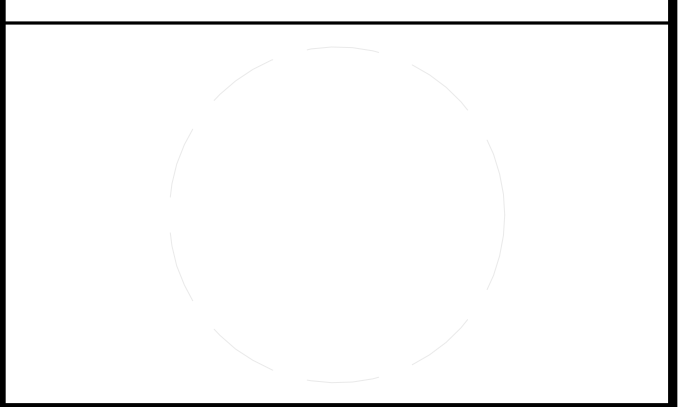
TO MAINTAIN A CLEAN INTERIOR AESTHETIC, THE SILHOUETTE SMOKE ALARM DESIGN BY KIDDE FIRE & SECURITY IS SELECTED BECAUSE OF ITS SMALL PLATE SIZE AND ULTRA-SLIM PROFILE, PROTRUDING ONLY 3/4" FROM THE WALL OR CEILING SURFACE. THESE DEVICES ARE LOCATED ON WALLS IN ELEVATED LOCATIONS WHERE THE ROOF PITCH WOULD DIRECT SMOKE IN THE EVENT OF A FIRE, BUT THE EYE IS NOT EXPECTED TO WANDER.

GENERAL SYMBOL LEGEND	
MARK	DESCRIPTION
	ROOM DESIGNATION
	ELEVATION MARKER
	SECTION
	ELEVATION TAG
	COLUMN GRID TAG
	NORTH ARROW
	GRAPHICAL SCALE



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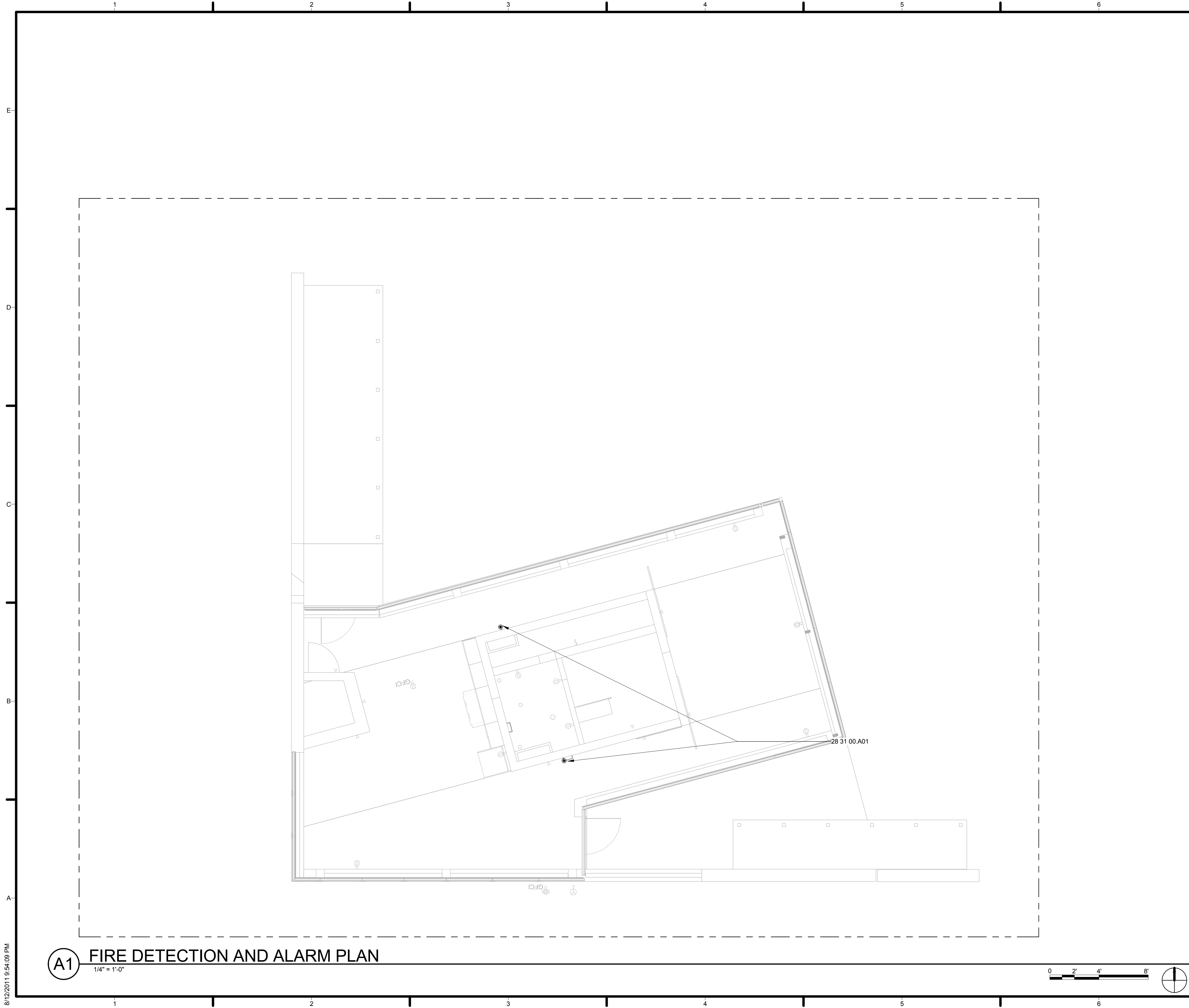
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SHEET TITLE  
**FIRE PROTECTION NOTES AND SYMBOLS**

**F-001**



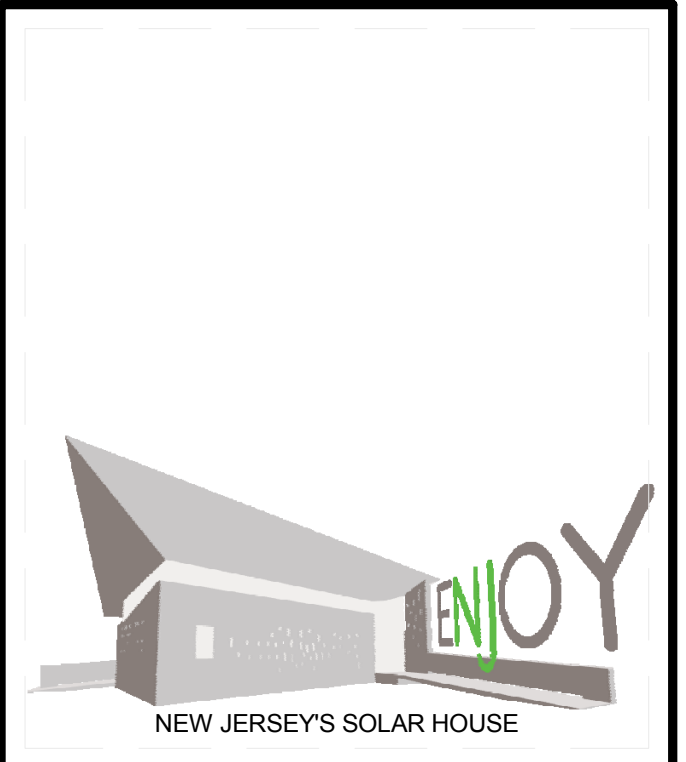
**(A1) FIRE DETECTION AND ALARM PLAN**  
 1/4" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

28 31 00.A01 KIDDIE SILHOUETTE LOW-PROFILE FIRE ALARM

**SHEET KEYNOTES**



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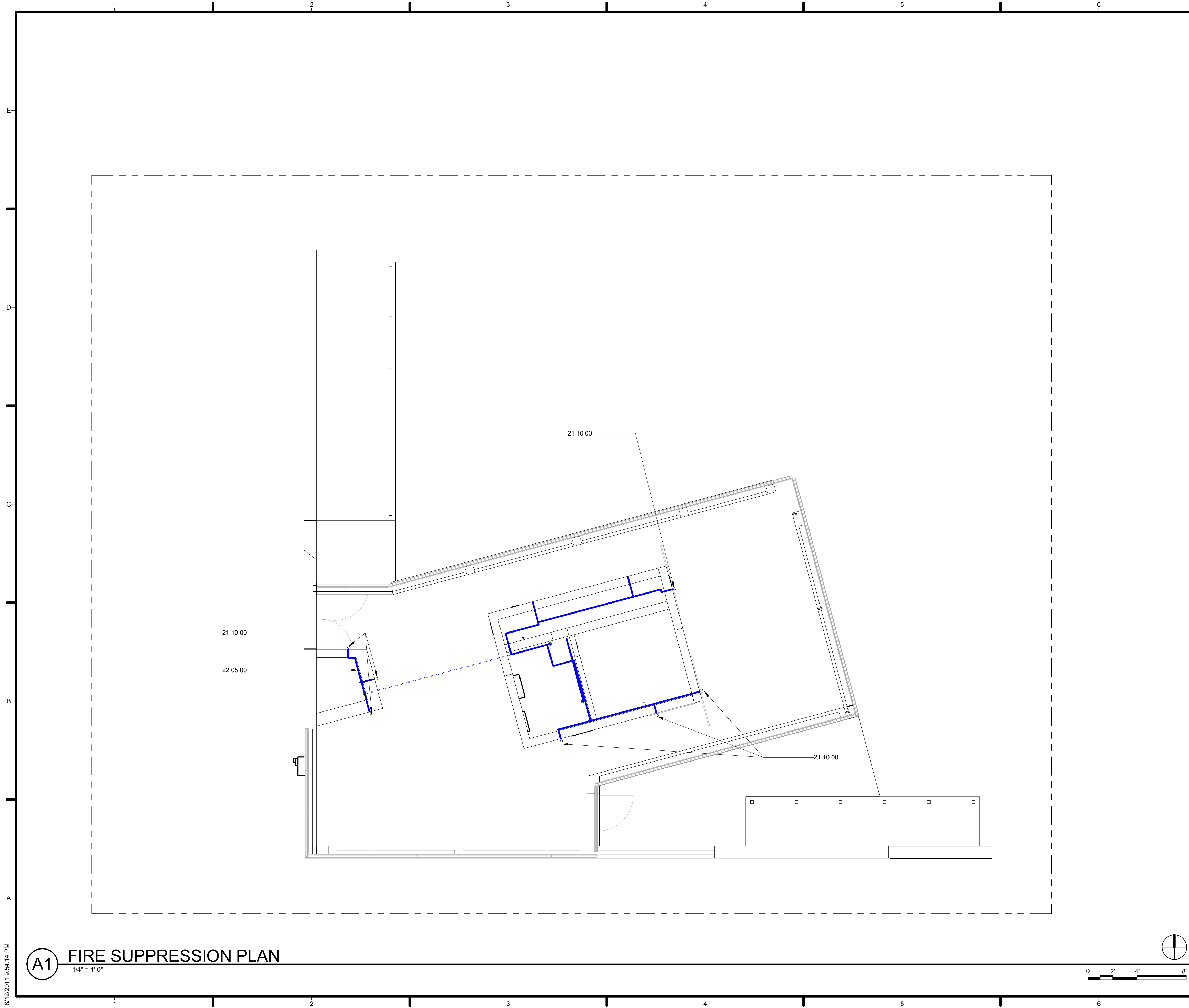
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SHEET TITLE  
**FIRE DETECTION AND ALARM**

**F-101**

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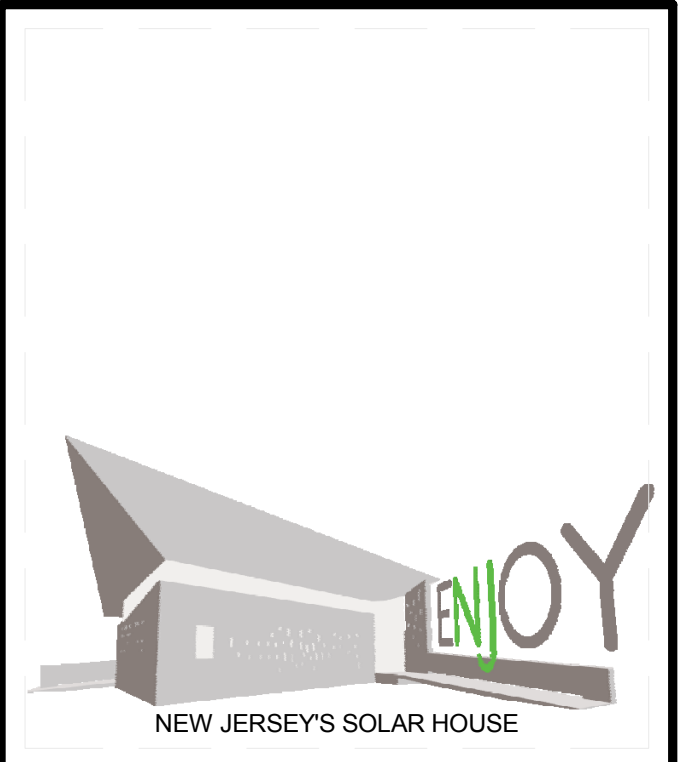
**GENERAL SHEET NOTES**

- 1. ALL SPRINKLER MODELS TO BE VIKING CONCEALED HORIZONTAL SIDEWALL SPRINKLERS, INSTALLED WITH ACCOMPANYING COVER PLATE (P/N 16207) WITH THE EXCEPTION OF BATHROOM SPRINKLER
- 2. ALL PIPES TO BE CAULKED WITH 2-HOUR FIRE RATED BARRIER CAULK AT WALL PUNCTURE LOCATIONS
- 3. ANY PIPE LOCATED BELOW FLOOR SLAB SHALL BE INSULATED WITH 1" PIPE INSULATION

**REFERENCE KEYNOTES**

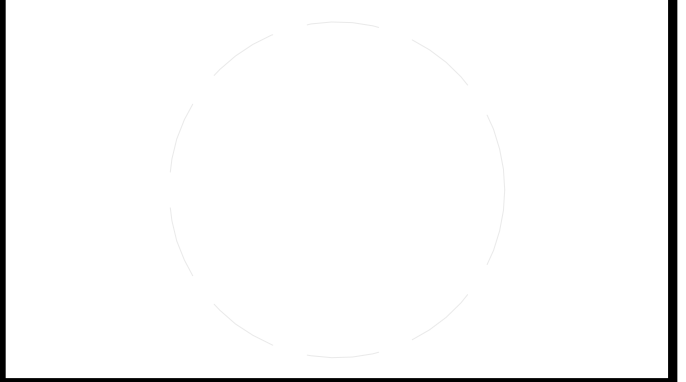
- 21 10 00 VIKING WATER-BASED FIRE-SUPPRESSION SYSTEMS
- 22 05 00 COMMON WORK RESULTS FOR PLUMBING

**SHEET KEYNOTES**



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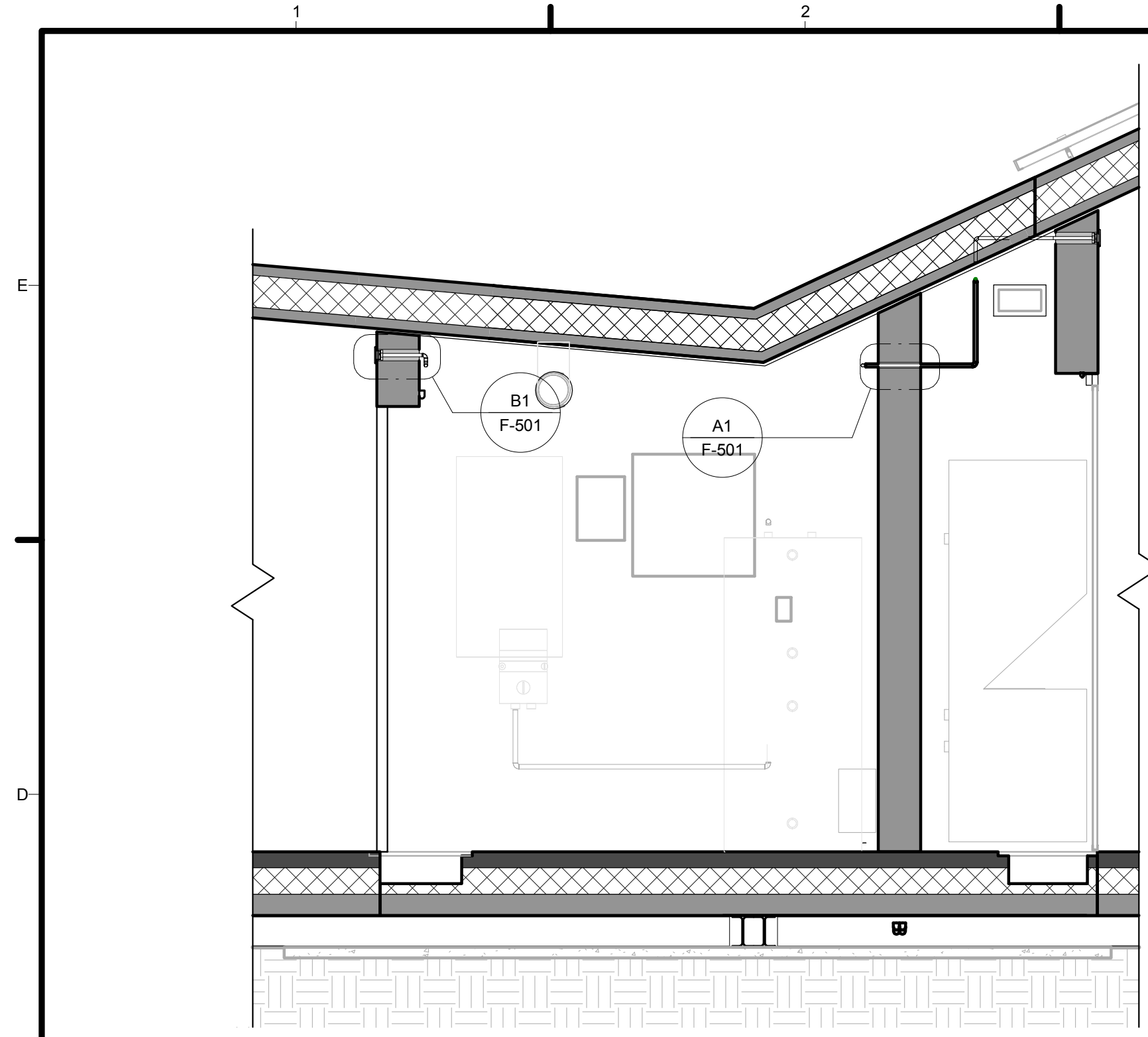
LOT NUMBER: LOT 104  
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SHEET TITLE  
**FIRE SUPPRESSION**

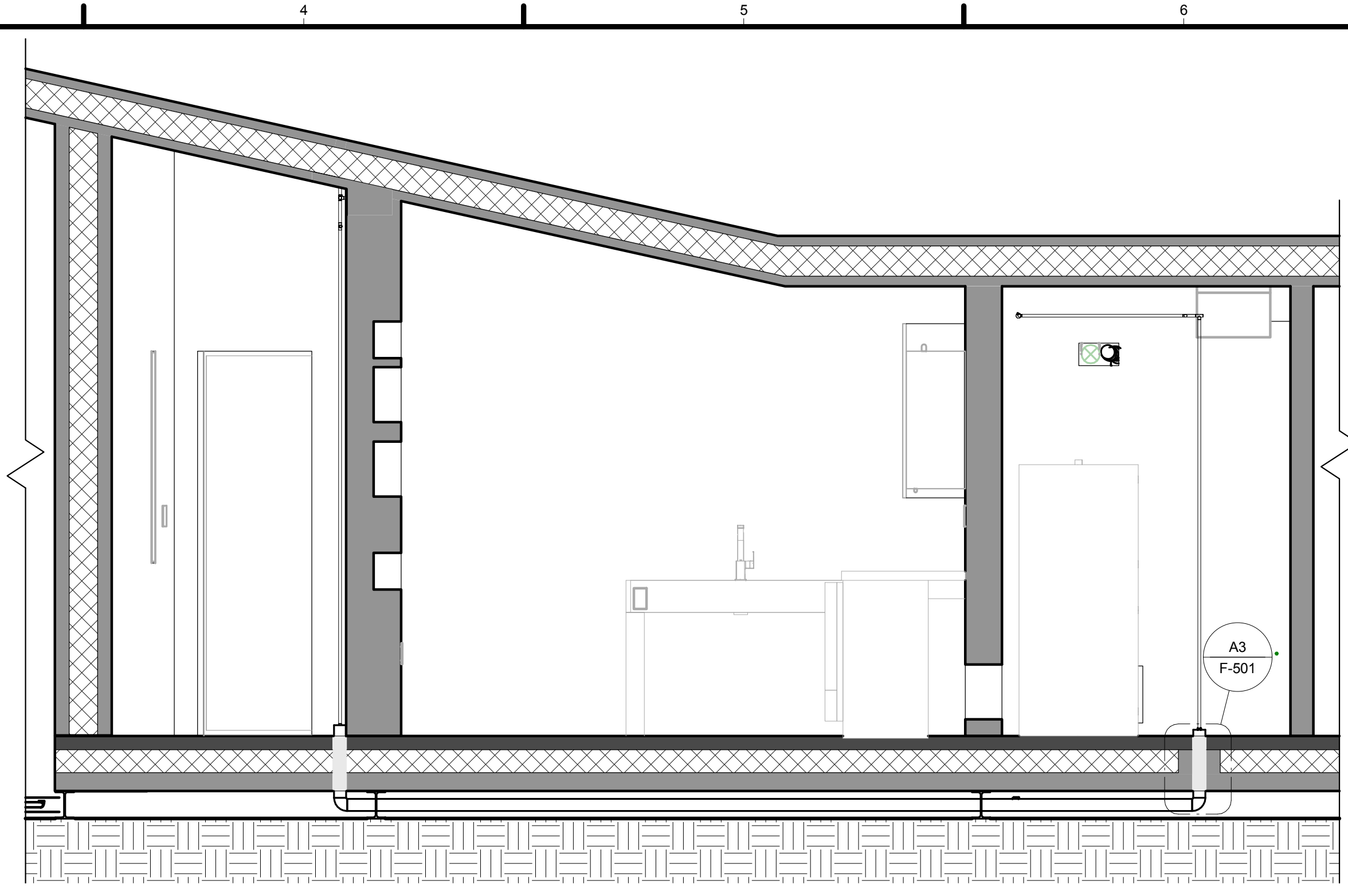
**F-102**

**(A1) FIRE SUPPRESSION PLAN**  
 1/4" = 1'-0"

8/12/2011 9:54:14 PM



**C1** MECHANICAL ROOM SPRINKLER PIPE ELEVATION  
1/2" = 1'-0"



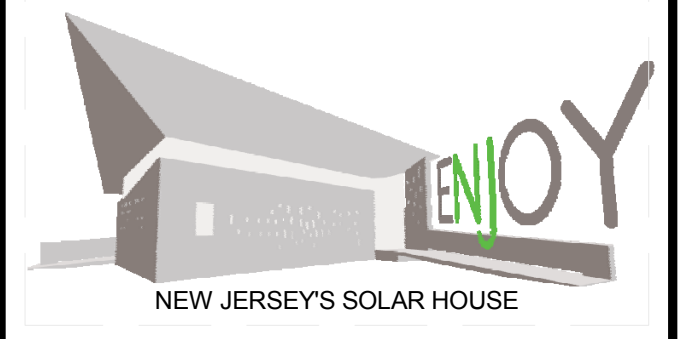
**C3** ENTRY CLOSET SPRINKLER ELEVATION  
1/2" = 1'-0"

**GENERAL SHEET NOTES**

1. ALL PIPES TO BE CAULKED WITH 2-HOUR FIRE RATED BARRIER CAULK AT WALL PUNCTURE LOCATIONS
2. ANY PIPE LOCATED BELOW FLOOR SLAB SHALL BE INSULATED WITH 1" PIPE INSULATION

**REFERENCE KEYNOTES**

07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS
21 10 00.A1	FIRE-SUPPRESSION WATER-SERVICE PIPING
21 13 13	WET-PIPE SPRINKLER SYSTEMS



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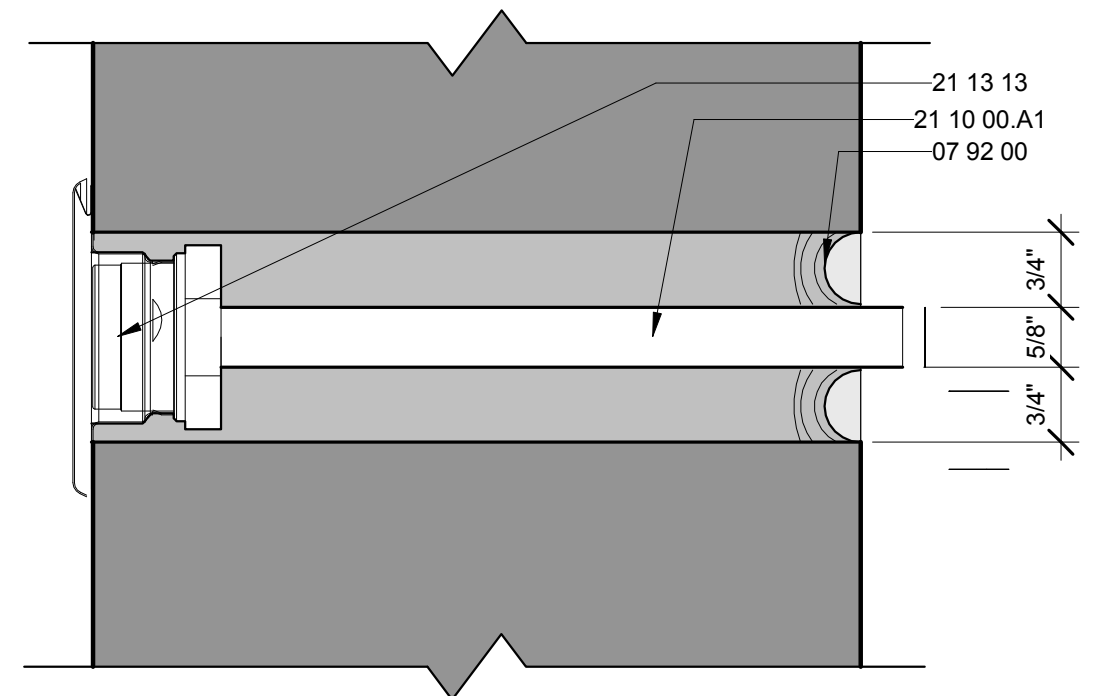


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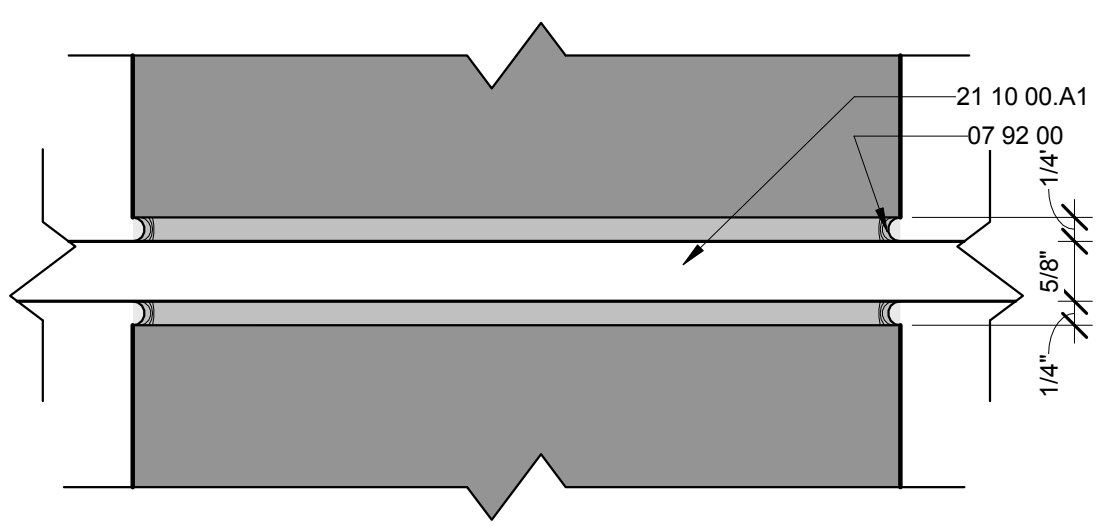
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SHEET TITLE  
**FIRE SUPPRESSION DETAILS**

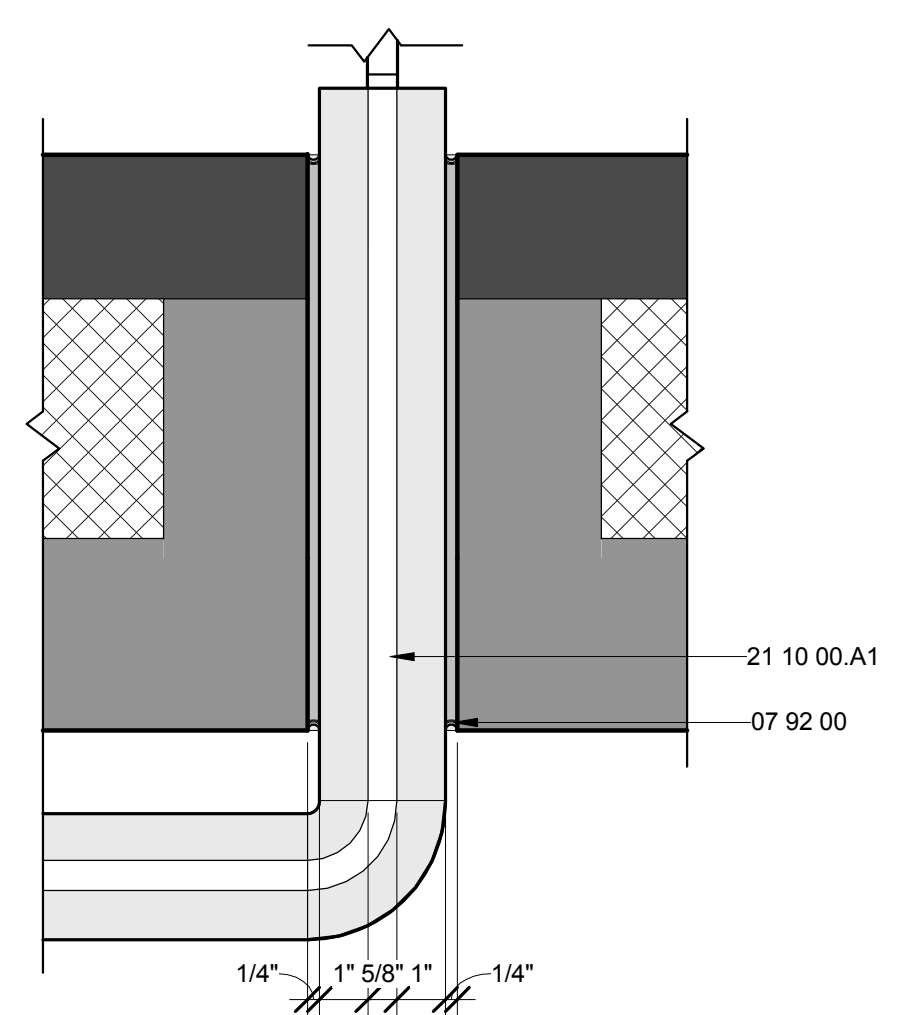
**F-501**



**B1** TYPICAL WALL PUNCTURE AT SPRINKLER  
6" = 1'-0"



**A1** TYPICAL WALL PUNCTURE AT SPRINKLER PIPE  
6" = 1'-0"



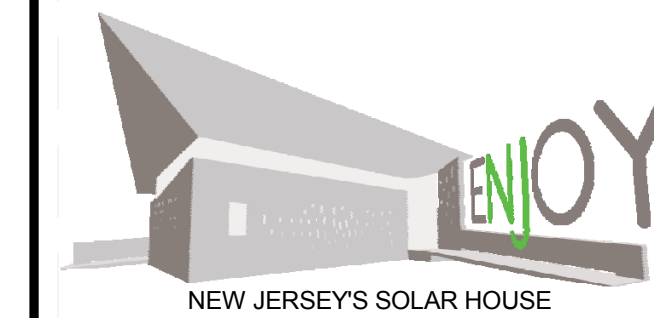
**A3** TYPICAL FLOOR SLAB PUNCTURE AT SPRINKLER PIPE  
3" = 1'-0"



FIRE SPRINKLER SCHEDULE					
COUNT	TYPE	MODEL	K-FACTOR	TEMPERATURE RATING	RESPONSE
1	Viking FREEDOM Residential Concealed Horizontal Sidewall Sprinkler	VK480	4	165 °F	Quick
1	Viking FREEDOM Residential Concealed Horizontal Sidewall Sprinkler	VK480	4	165 °F	Quick
1	Viking FREEDOM Residential Concealed Horizontal Sidewall Sprinkler	VK480	4	165 °F	Quick
1	Viking FREEDOM Residential Concealed Horizontal Sidewall Sprinkler	VK480	4	165 °F	Quick
1	Viking FREEDOM Residential Concealed Horizontal Sidewall Sprinkler	VK480	4	165 °F	Quick
1	Viking FREEDOM Residential Concealed Horizontal Sidewall Sprinkler	VK480	4	165 °F	Quick
1	Tycos Series LFII Residential Horizontal Sidewall Sprinkler	TY3334	5.6	135 °F	Standard
8					

FIRE ALARM DEVICE SCHEDULE			
COUNT	MANUFACTURER	TYPE	MODEL
2	Kidde	SILHOUETTE Wire-In Low-Profile Smoke Alarm	KN-SMFM-I

SPRINKLER PIPE SCHEDULE				
LENGTH	COUNT	DIAMETER	CONNECTION	INSULATION THICKNESS
1/4"	1	1"	Brazed	0"
1/2"	1	1"	Brazed	0"
3/4"	1	1"	Brazed	0"
1"	1	1"	Brazed	0"
1 1/8"	1	1"	Brazed	0"
1 5/8"	1	1"	Brazed	0"
4"	2	1"	Brazed	0"
4 3/8"	1	1"	Brazed	0"
4 3/8"	1	1"	Brazed	0"
4 7/8"	1	1"	Brazed	0"
5 3/8"	1	1"	Brazed	0"
5 3/4"	1	1"	Brazed	0"
5 7/8"	2	1"	Brazed	0"
6 5/8"	1	1"	Brazed	0"
7 3/4"	1	1"	Brazed	0"
9 7/8"	1	1"	Brazed	0"
9 7/8"	1	1"	Brazed	0"
1'-0"	1	1"	Brazed	0"
1'-2 1/2"	1	1"	Brazed	0"
1'-3 1/8"	1	1"	Brazed	0"
1'-5 3/8"	1	1"	Brazed	0"
1'-7 3/4"	1	1"	Brazed	0"
1'-7 7/8"	1	1"	Brazed	0"
1'-8 1/8"	1	1"	Brazed	0"
1'-8 1/2"	1	1"	Brazed	0"
1'-11"	1	1"	Brazed	0"
2'-2 3/8"	1	1"	Brazed	0"
2'-7 1/4"	1	1"	Brazed	0"
2'-8 1/4"	1	1"	Brazed	0"
3'-1 7/8"	1	1"	Brazed	0"
3'-6 5/8"	1	1"	Brazed	0"
4'-6 1/8"	1	1"	Brazed	0"
4'-11 7/8"	1	1"	Brazed	0"
7'-5 1/4"	1	1"	Brazed	0"
7'-10 5/8"	1	1"	Brazed	0"
8'-11 3/4"	1	1"	Brazed	0"
1'-2 7/8"	1	1"	Brazed	1"
1'-3 7/8"	1	1"	Brazed	1"
15'-4 3/8"	1	1"	Brazed	1"



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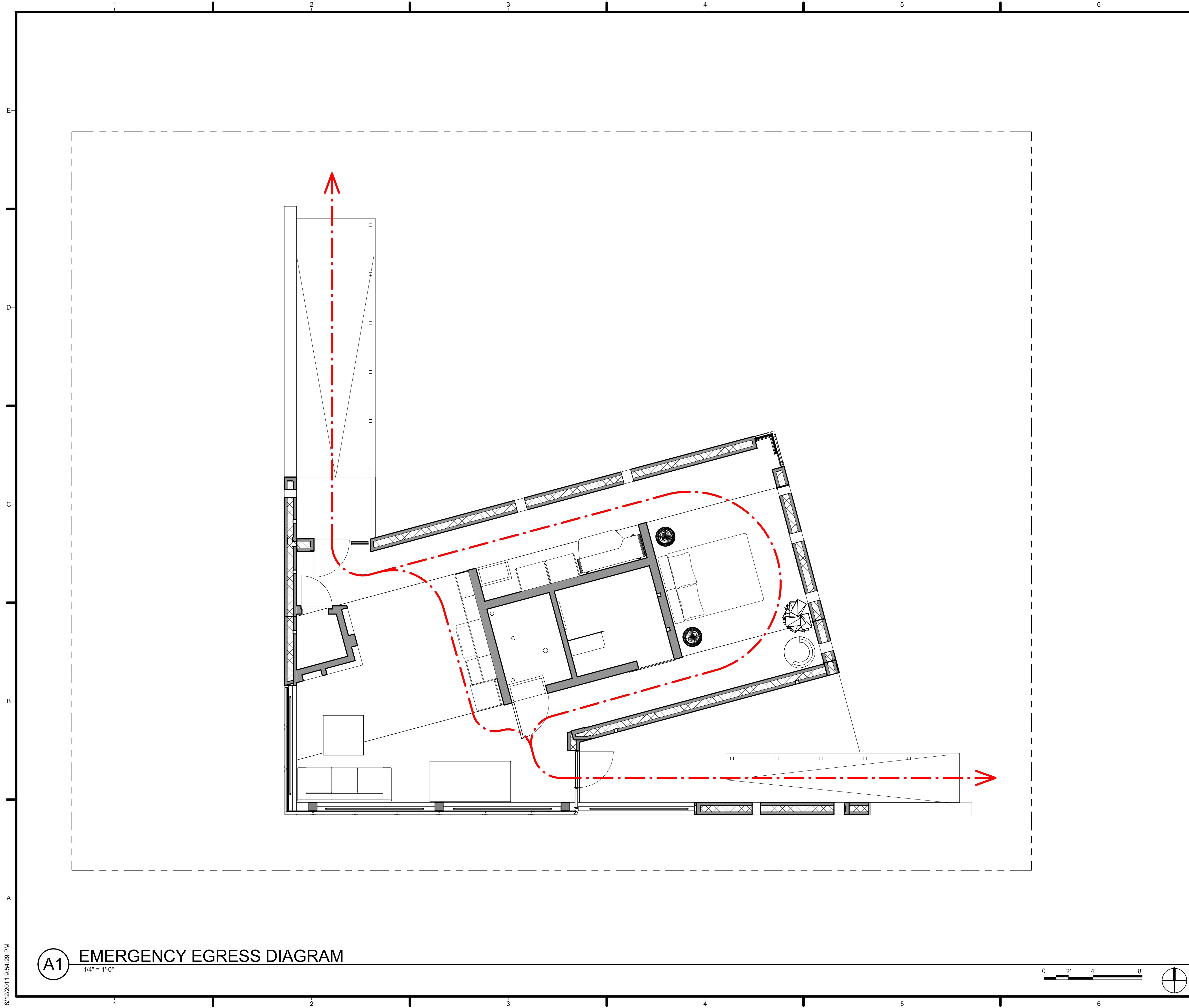
MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

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SHEET TITLE

FIRE PROTECTION SCHEDULES

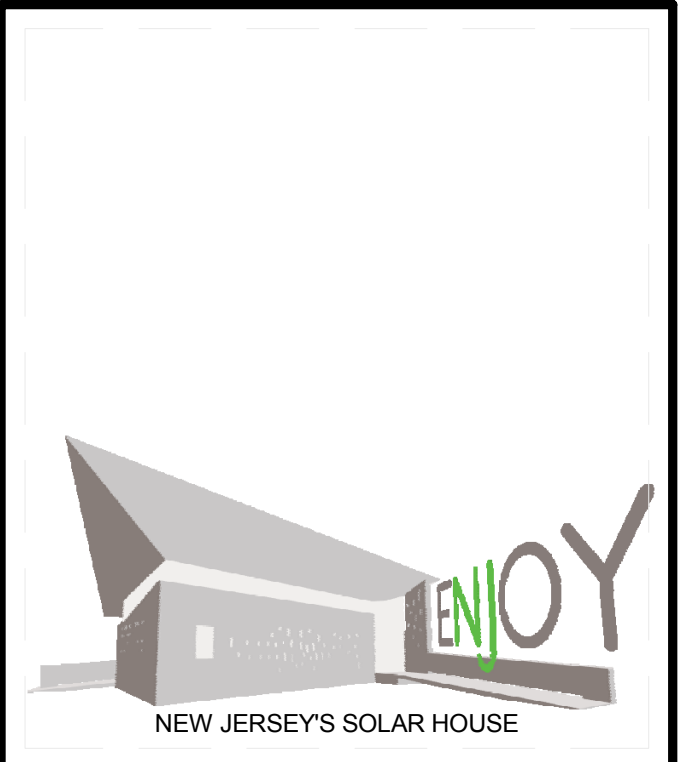
F-601



GENERAL SHEET NOTES

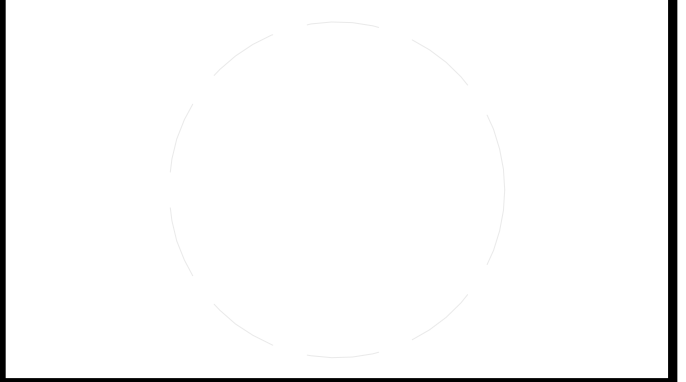
REFERENCE KEYNOTES

SHEET KEYNOTES



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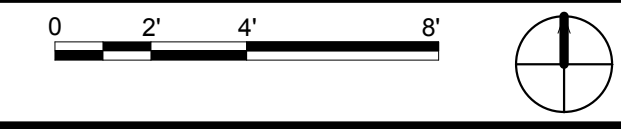
MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
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SHEET TITLE  
**FIRE PROTECTION DIAGRAMS**

**F-602**

**A1** EMERGENCY EGRESS DIAGRAM  
 1/4" = 1'-0"



8/12/2011 9:54:29 PM



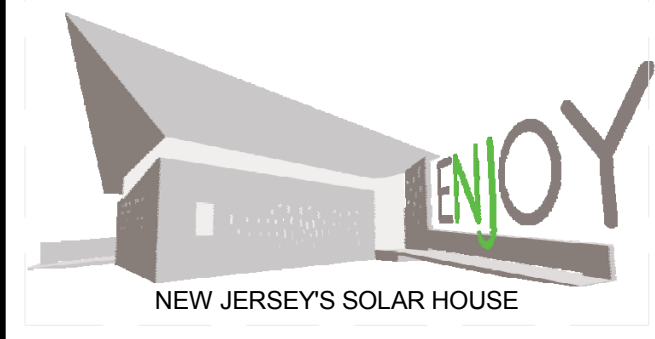
PLUMBING SYMBOLS LEGEND	
MARK	DESCRIPTION
	DOMESTIC HOT WATER
	DOMESTIC COLD WATER
	SANITARY
	SOLAR WATER
	FIRE PREVENTION
	OTHER

PLUMBING SYMBOL LEGEND	
MARK	DESCRIPTION
	DOMESTIC HOT WATER
	DOMESTIC COLD WATER
	SANITARY
	VENTING
	BACKFLOW PREVENTER
	TEMPORARY CIRCULATOR
	PLUG VALVE
	CLEANOUT
	ISOLATING VALVE
	THERMOSTATIC MIXING VALVE
	UNION VALVE

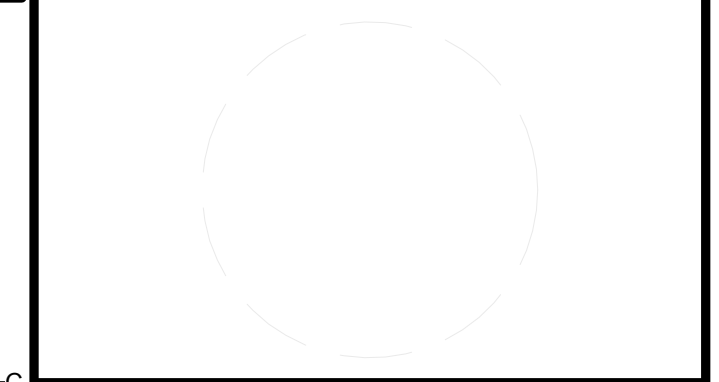
**PLUMBING**

1. PLUMBING INSTALLATION SHALL CONFORM TO THE NATIONAL STANDARD BASIC PLUMBING CODE AND ANY APPLICABLE LOCAL CODES AND REGULATIONS.
2. BRANCH SUPPLIES TO EACH FIXTURE OR EQUIPMENT SHALL BE VALVED.
3. MINIMUM SLOPE ON SANITARY WASTE SHALL BE 1/8" PER FOOT.
4. WATER PIPING SHALL BE PITCHED TO PROVIDE COMPLETE DRAINAGE BY THE LOWEST FIXTURE.
5. A CLEAN-OUT SHALL BE PROVIDED AT EVERY 50'-0" ON HORIZONTAL RUNS AND AT EACH CHANGE OF DIRECTION 45 DEGREES OR GREATER.
6. SOIL OR VENT PIPING SHALL BE PVC. ALL ABOVE GROUND WATER PIPING WILL BE COPPER TUBING TYPE 'L'.
7. CONTRACTOR SHALL INSTALL CAP FLASHING ON ALL PIPES PASSING THROUGH ROOF.
8. HOT AND COLD WATER BRANCHES SHALL BE PROVIDED WITH AIR CHAMBERS AT THEIR UP MOST POINTS.
9. CONTRACTOR SHALL SUBMIT TO BUILDER SPECIFICATIONS AND/OR SAMPLES FOR APPROVAL OF ALL EQUIPMENT USED ON THE PROJECT.
10. PROVIDE EXTERIOR HOSE BIB ON FRONT AND REAR OF EACH UNIT, INCLUDING BACK-FLOW PREVENTOR.
11. CONTRACTOR SHALL MAKE ALL TESTS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER PROJECT.
12. CONTRACTOR SHALL GUARANTEE FOR PERIOD OF ONE (1) YEAR ALL LABOR, WORKMANSHIP AND EQUIPMENT. ALL PIPING SHALL BE GUARANTEED FOR A PERIOD OF TWO (2) YEARS AS REQUIRED BY HOW APPROVED STANDARDS. FACTORY WARRANTIES ON EQUIPMENT SHALL BE EXTENDED TO HOMEOWNER AND/OR BUILDER.



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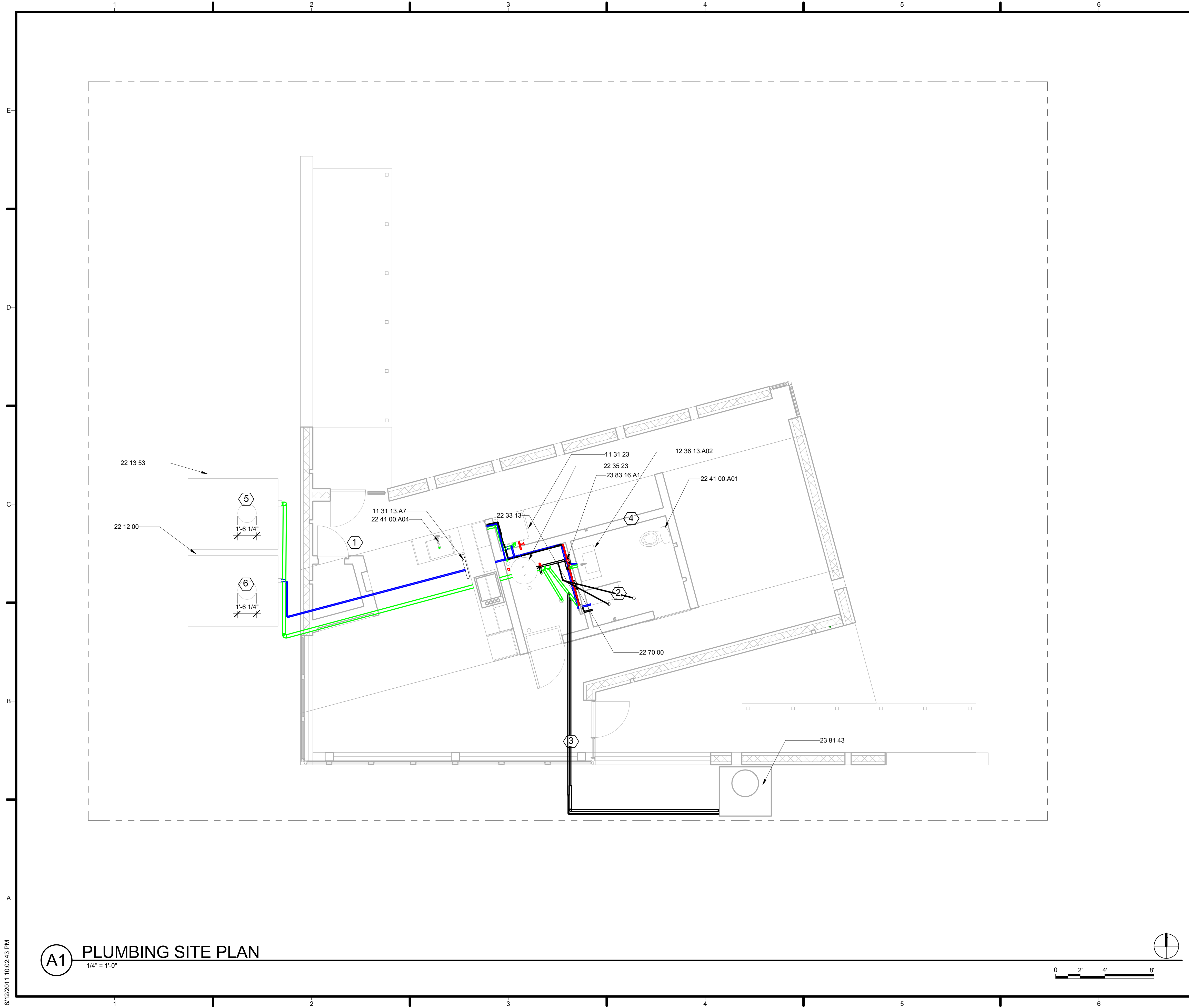


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SHEET TITLE  
**PLUMBING SYMBOLS AND NOTES**

**P-001**



**GENERAL SHEET NOTES**

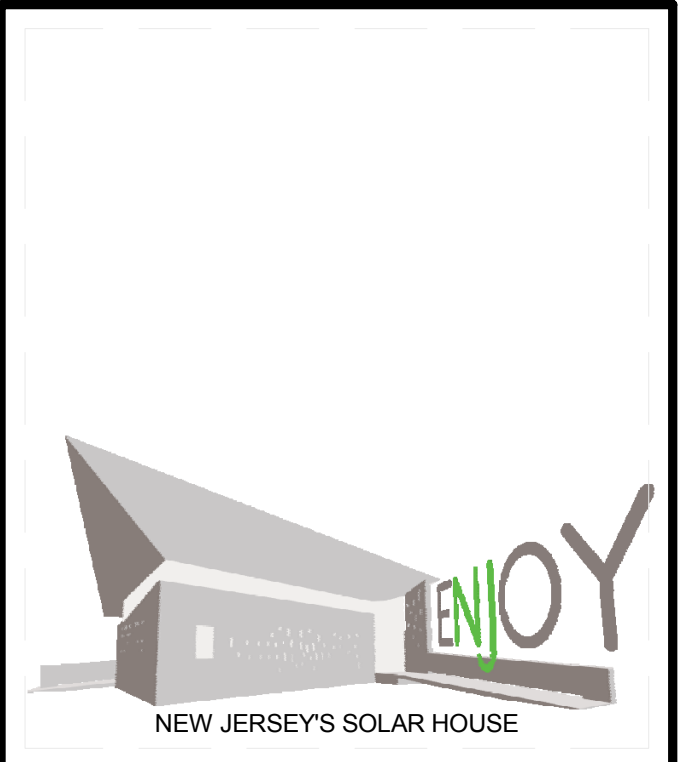
1. REFER TO SHEET G-601 FOR POTABLE AND SEPTIC TANK SHADING
2. TOILET WILL NOT BE HOOKED UP FOR COMPETITION
3. AIR TO WATER REVERSE CYCLE CHILLER TO SIT ON METAL PAN FOR SPILL CONTAINMENT
4. OUTDOOR HOSE BIBS WILL NOT BE HOOKED UP FOR THE COMPETITION

**REFERENCE KEYNOTES**

11 31 13.A7	BOSCH EVOLUTION 500 SERIES DISHWASHER
11 31 23	RESIDENTIAL LAUNDRY APPLIANCES
12 36 13.A02	TRUEFORM BATHROOM CONCRETE SINK
22 12 00	FACILITY POTABLE-WATER STORAGE TANKS
22 13 53	FACILITY SEPTIC TANKS
22 33 13	STIEBEL ELTRON TANKLESS ELECTRIC WATER HEATER
22 35 23	BRADFORD WHITE 70 GALLON DUAL HEAT EXCHANGER
22 41 00.A01	KOHLER SAN RAPHAEL WATER CLOSET
22 41 00.A02	EUPHORIA WALL MOUNTED DIVERTER SHOWER SYSTEM
22 41 00.A04	MOEN 90 DEGREE CHROME FAUCET
22 70 00	VEIGA MANABLOC DOMESTIC PLUMBING SUPPLY
23 81 43	AQUA PRODUCTS REVERSE CYCLE CHILLER
23 83 16.A1	UPONOR EP MANIFOLD FOR HYDRONIC FLOORING

**SHEET KEYNOTES**

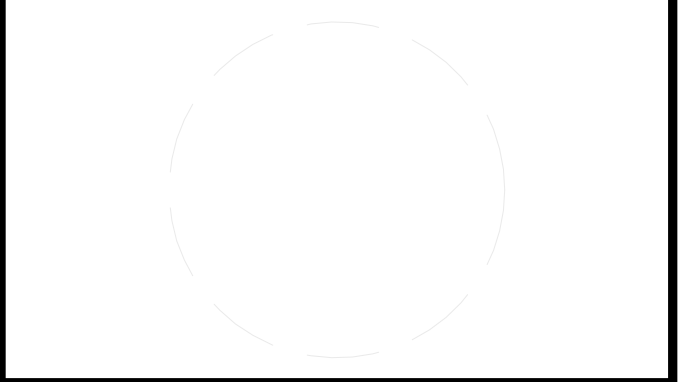
1. BLACK WATER LINE - 3" PVC
2. SHOWER DRAIN - 2" PVC
3. CONDENSER LINE - 3/4" PEX
4. HOT WATER LINE - 3/4" PEX
5. 750 GALLON SEPTIC TANK AND WATER REMOVAL LOCATION - POLYETHYLENE 88" X 69" X 42" OPENING DIAMETER 16 1/4"
6. 750 GALLON DOMESTIC SUPPLY TANK AND WATER DELIVERY LOCATION - POLYETHYLENE 88" X 69" X 42" OPENING DIAMETER 16 1/4"



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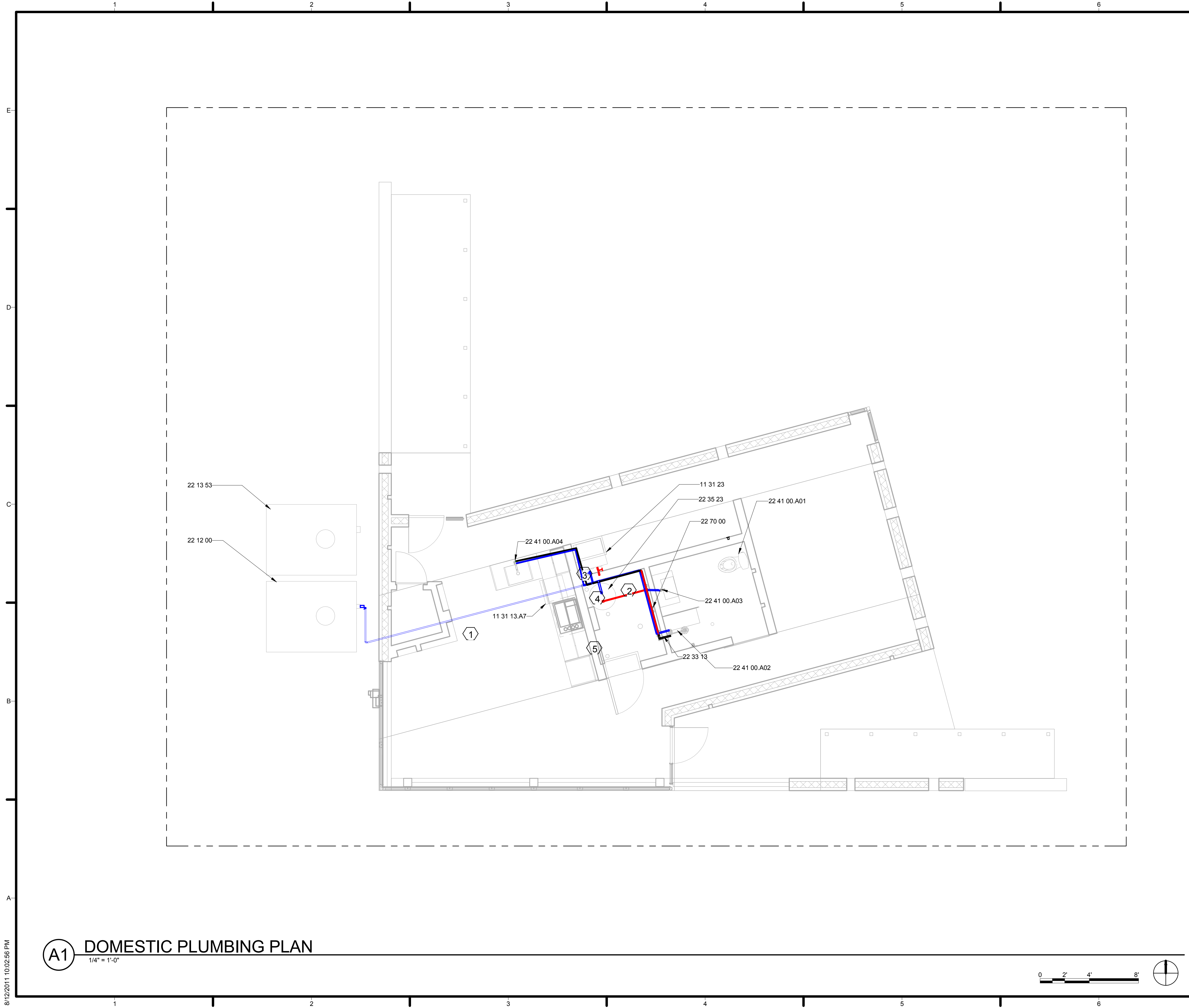
**SHEET TITLE**  
 PLUMBING SITE PLAN

**P-101**

**A1 PLUMBING SITE PLAN**  
 1/4" = 1'-0"

8/12/2011 10:02:43 PM





**GENERAL SHEET NOTES**

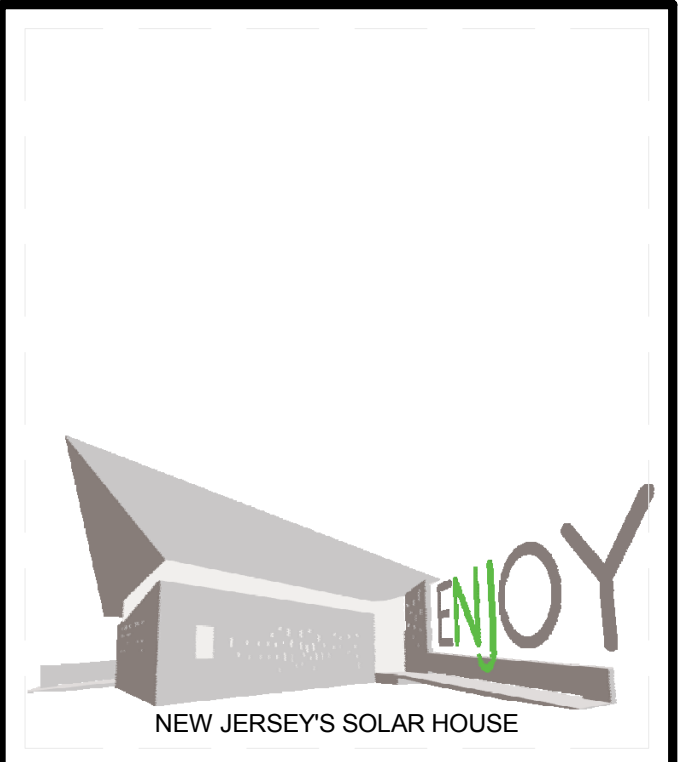
1. REFER TO SHEET G-601 FOR POTABLE AND SEPTIC TANK
2. TOILET WILL NOT BE HOOKED UP FOR COMPETITION

**REFERENCE KEYNOTES**

11 31 13.A7	BOSCH EVOLUTION 500 SERIES DISHWASHER
11 31 23	RESIDENTIAL LAUNDRY APPLIANCES
22 12 00	FACILITY POTABLE-WATER STORAGE TANKS
22 13 53	FACILITY SEPTIC TANKS
22 33 13	STIEBEL ELTRON TANKLESS ELECTRIC WATER HEATER
22 35 23	BRADFORD WHITE 70 GALLON DUAL HEAT EXCHANGER
22 41 00.A01	KOHLER SAN RAPHAEL WATER CLOSET
22 41 00.A02	EUPHORIA WALL MOUNTED DIVERTER SHOWER SYSTEM
22 41 00.A03	MOEN 90 DEGREE CHROME FAUCET
22 41 00.A04	MOEN 90 DEGREE CHROME FAUCET
22 70 00	VEIEGA MANABLOC DOMESTIC PLUMBING SUPPLY

**SHEET KEYNOTES**

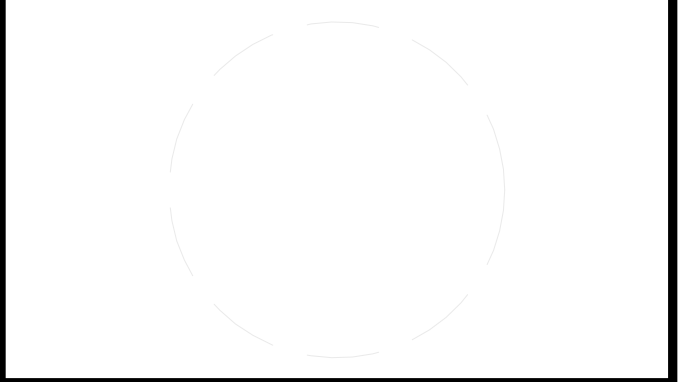
1. DOMESTIC SUPPLY LINE - 1" PEX-DOMESTIC SUPPLY LINE RUNS UNDER HOUSE
2. DOMESTIC SUPPLY HOLE - 1" DIAMETER
3. ISOLATING VALVE
4. HOT WATER SUPPLY - 1/2" PEX
5. COLD WATER SUPPLY - 1/2" PEX



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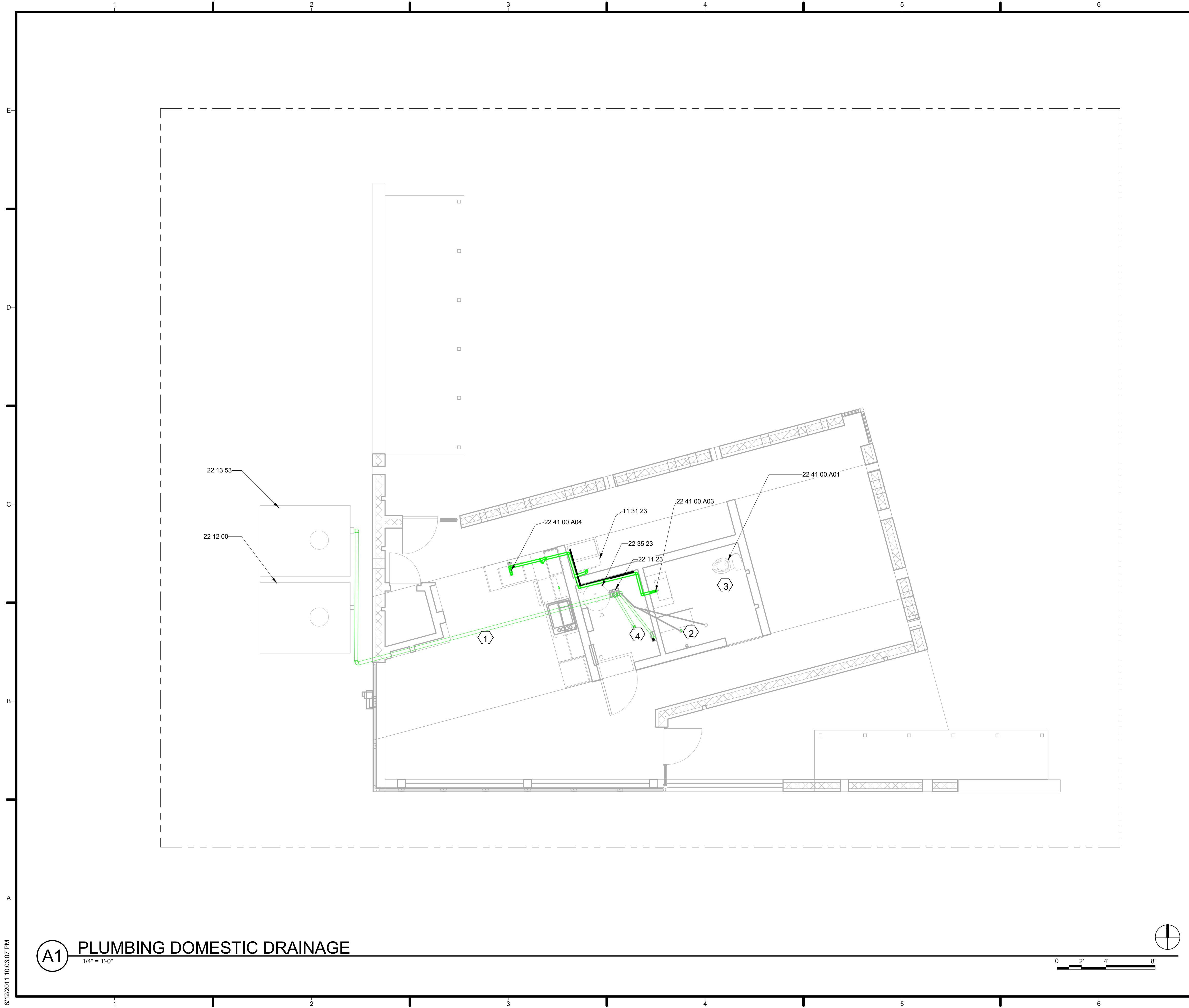
**SHEET TITLE**  
 DOMESTIC SUPPLY

**P-102**

8/12/2011 10:02:56 PM

**A1** DOMESTIC PLUMBING PLAN  
 1/4" = 1'-0"





**GENERAL SHEET NOTES**

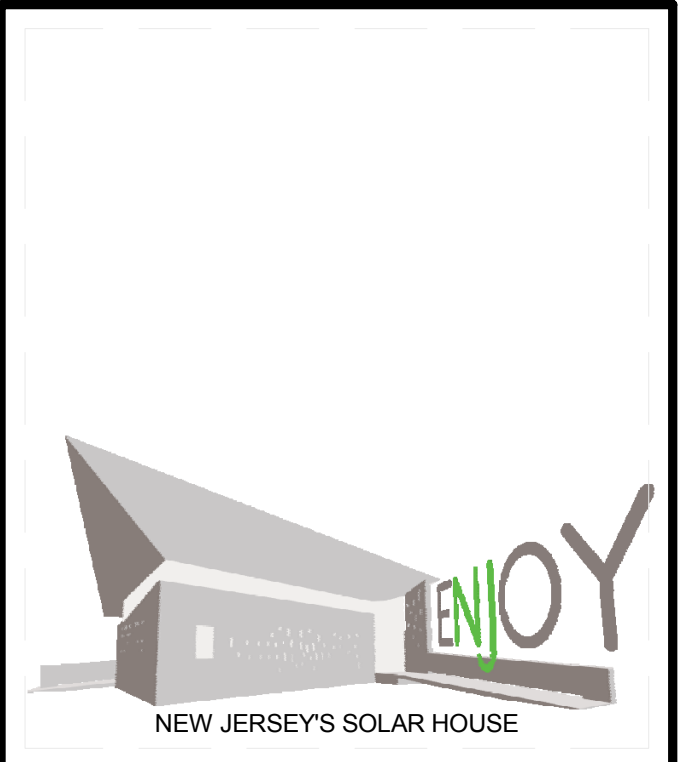
1. REFER TO SHEET G-601 FOR POTABLE AND SEPTIC TANK
2. TOILET WILL NOT BE HOOKED UP FOR COMPETITION

**REFERENCE KEYNOTES**

11 31 23	RESIDENTIAL LAUNDRY APPLIANCES
22 11 23	DOMESTIC WATER PUMPS
22 12 00	FACILITY POTABLE-WATER STORAGE TANKS
22 13 53	FACILITY SEPTIC TANKS
22 35 23	BRADFORD WHITE 70 GALLON DUAL HEAT EXCHANGER
22 41 00.A01	KOHLER SAN RAPHAEL WATER CLOSET
22 41 00.A02	EUPHORIA WALL MOUNTED DIVERTER SHOWER SYSTEM
22 41 00.A03	MOEN 90 DEGREE CHROME FAUCET
22 41 00.A04	MOEN 90 DEGREE CHROME FAUCET

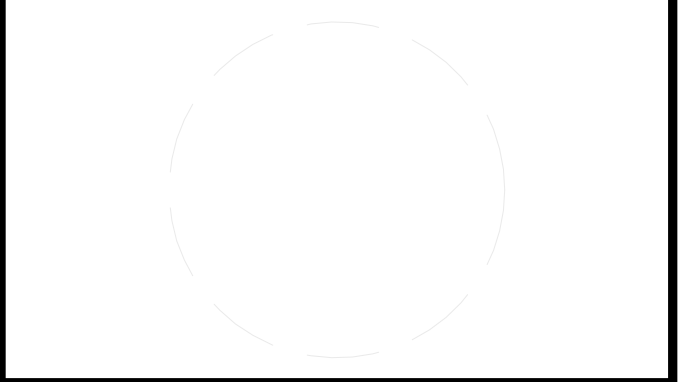
**SHEET KEYNOTES**

1. BLACK WATER LINE - 3" PVC
2. SHOWER DRAIN - 2" PVC
3. TOILET NOT CONNECTED FOR COMPETITION, W.C. FLANGE WILL BE CAPPED
4. BATHROOM - 3" PVC VENT PIPE



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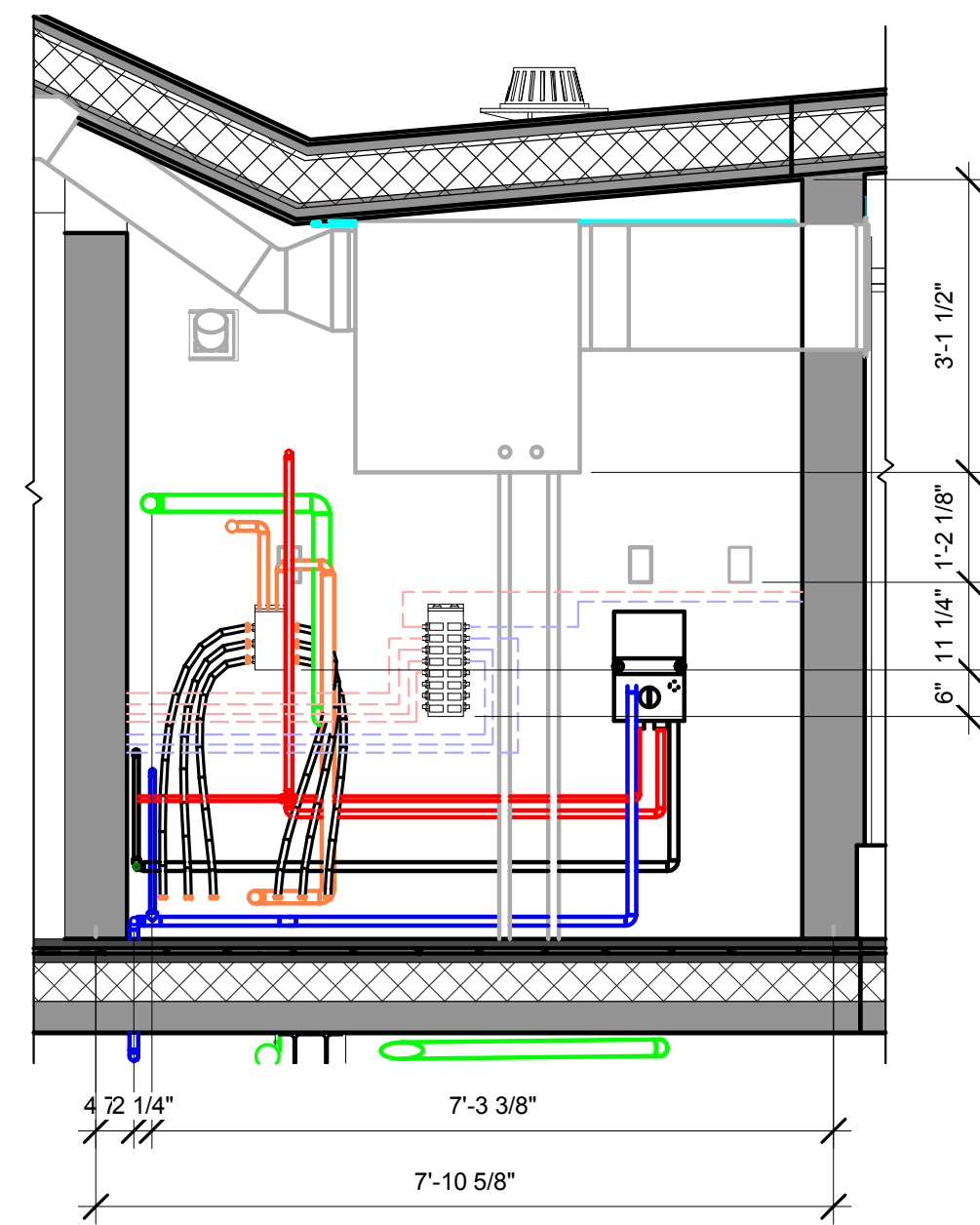
SHEET TITLE  
**SANITARY**

**P-103**

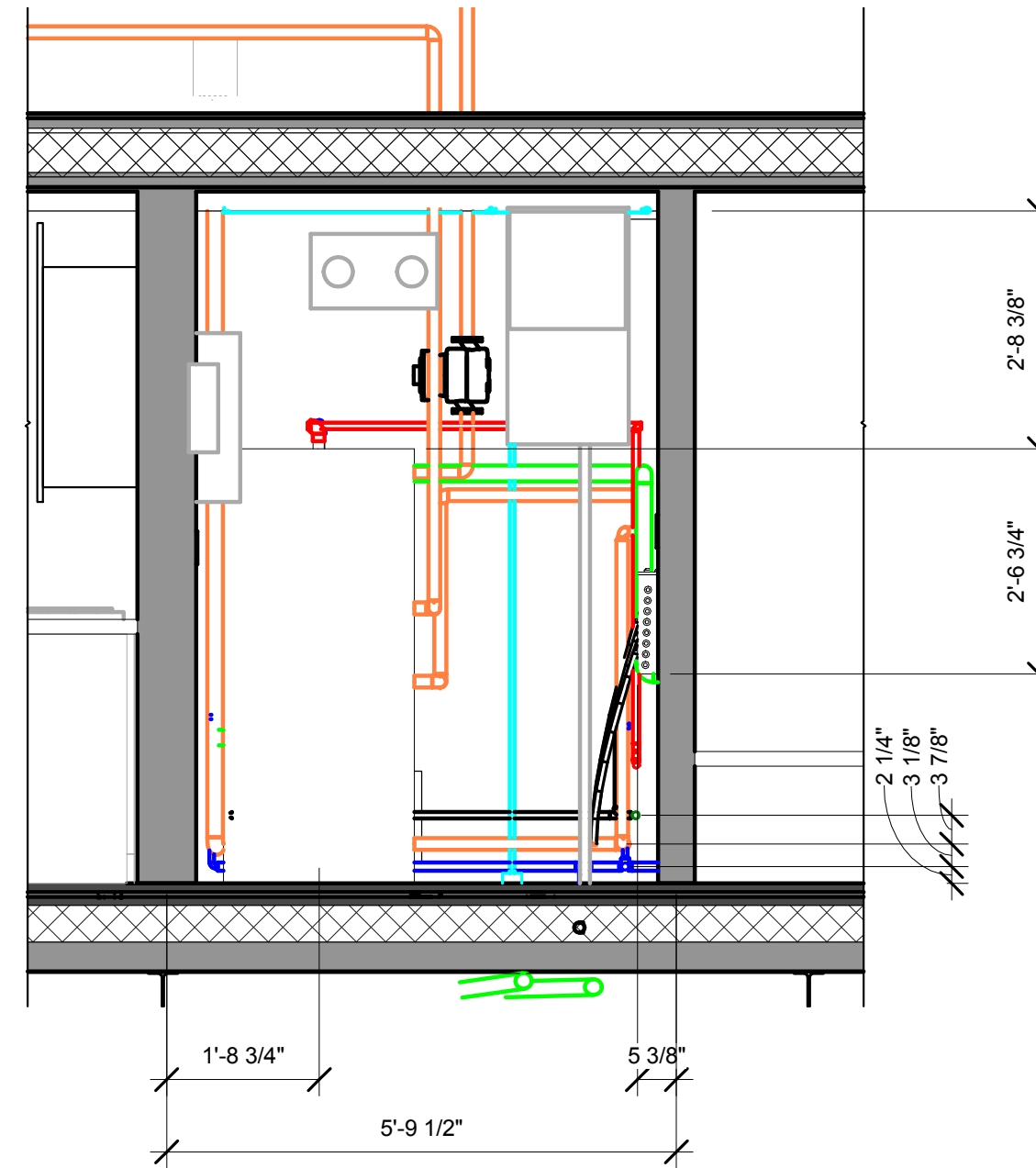
**A1 PLUMBING DOMESTIC DRAINAGE**  
 1/4" = 1'-0"

8/12/2011 10:03:07 PM

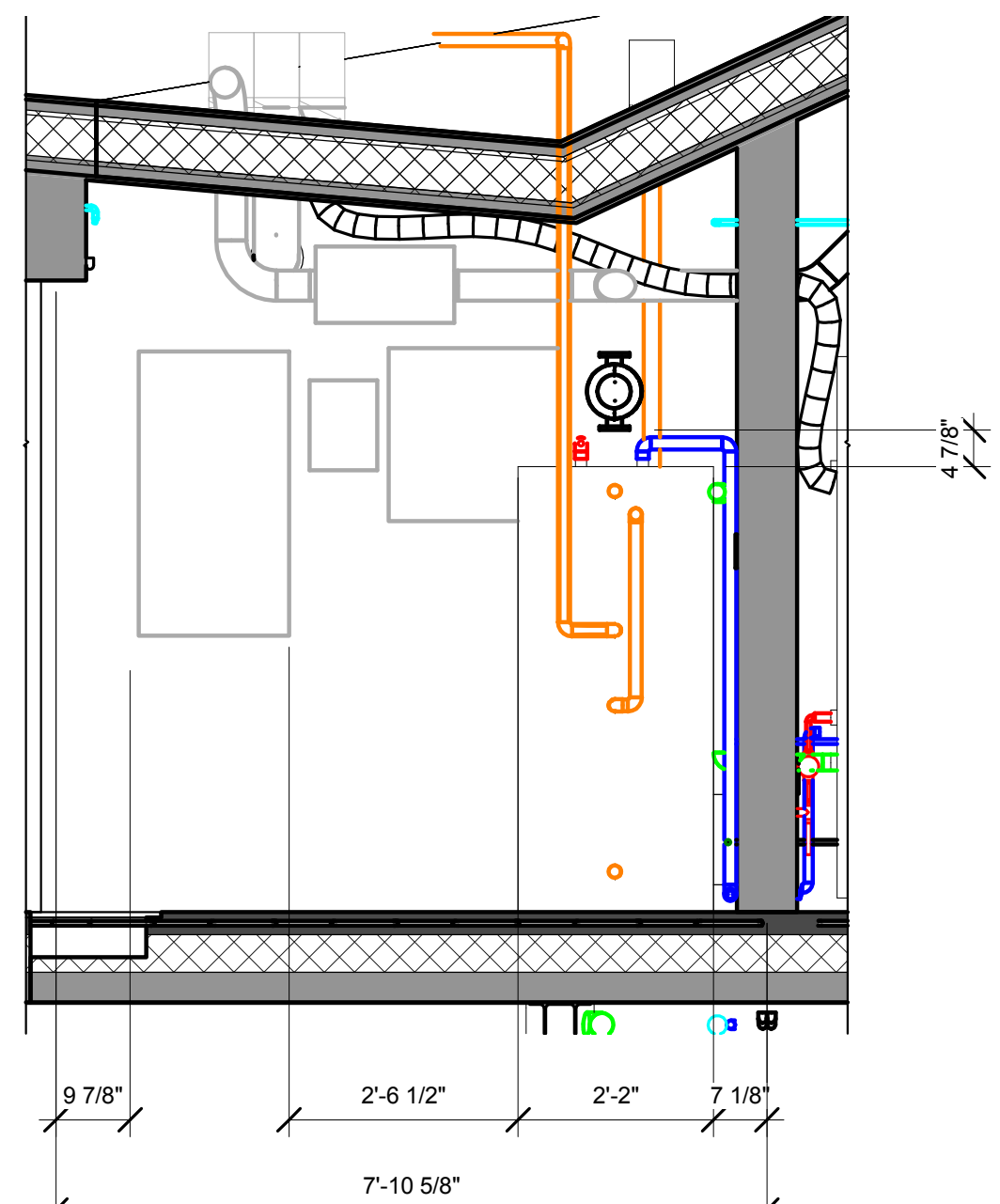




**C1** INTERIOR MECHANICAL CLOSET PLUMBING  
1/2" = 1'-0"



**C2** INTERIOR MECHANICAL CLOSET PLUMBING - 2  
1/2" = 1'-0"



**A1** INTERIOR MECHANICAL CLOSET PLUMBING - 3  
1/2" = 1'-0"

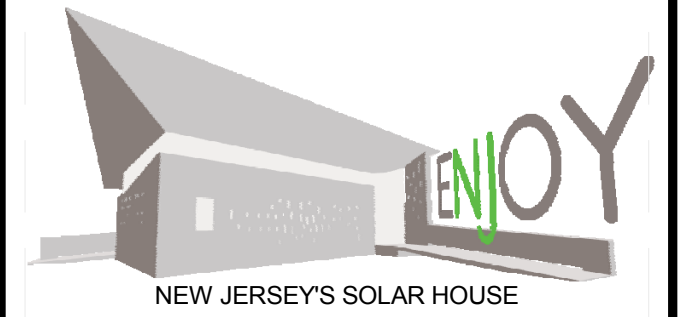
GENERAL SHEET NOTES

REFERENCE KEYNOTES

22 33 13 STIEBEL ELTRON TANKLESS ELECTRIC WATER HEATER  
23 56 13.19 APRIGUS HEATING SOLAR VACUUM-TUBE COLLECTORS

SHEET KEYNOTES

1. TO REVERSE CYCLE CHILLER
2. ROOF GREY WATER SYSTEM
3. TO FIRE SPRINKLER SYSTEM IN CLOSET ON WEST WALL
4. TO DUAL TANK HEAT EXCHANGER
5. TO SOLAR THERMAL ON ROOF
6. PLUMBING VENT
7. PLUMBING REVENT CONNECTING INTO MAIN VENT
8. TO THE TOILET
9. TO BATHROOM FIXTURES



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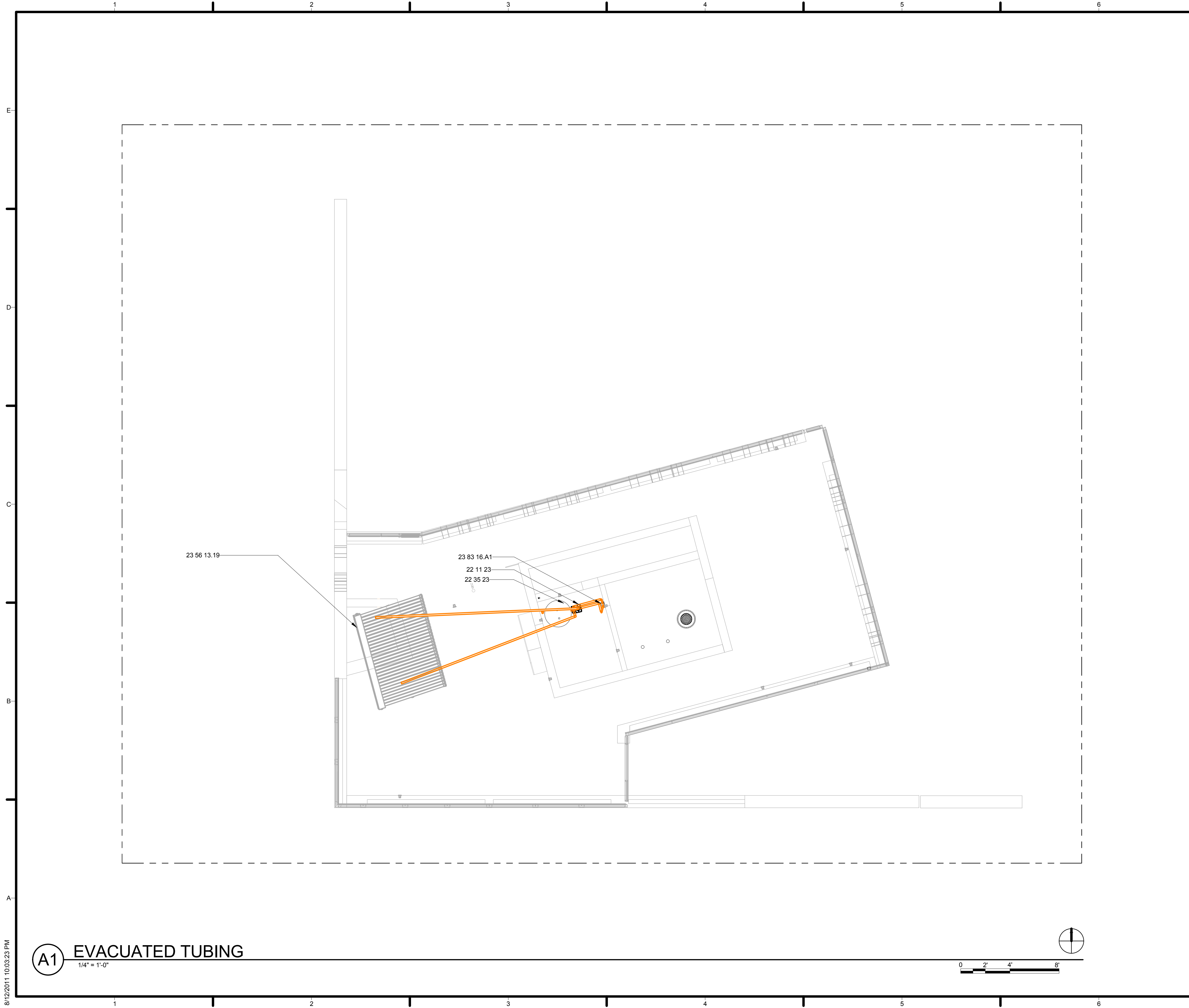
MARK	DATE	DESCRIPTION
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SHEET TITLE

MECHANICAL CLOSET ELEVATIONS

P-104



**GENERAL SHEET NOTES**

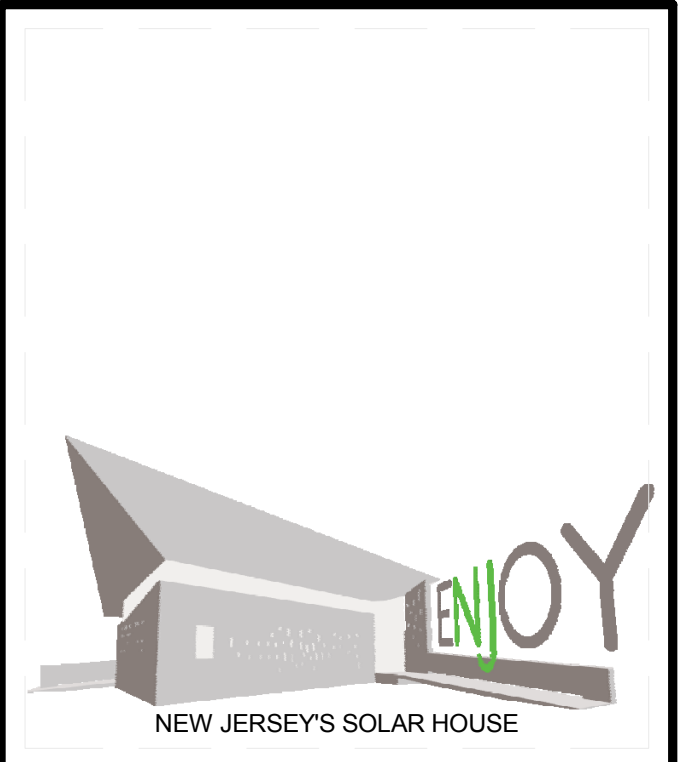
1. REFERENCE SHOP DRAWINGS FOR HYDRONIC FLOORING LAYOUT

**REFERENCE KEYNOTES**

- 22 11 23 DOMESTIC WATER PUMPS
- 22 35 23 BRADFORD WHITE 70 GALLON DUAL HEAT EXCHANGER
- 23 56 13.19 APRIGUS HEATING SOLAR VACUUM-TUBE COLLECTORS
- 23 83 16.A1 UPONOR EFP MANIFOLD FOR HYDRONIC FLOORING

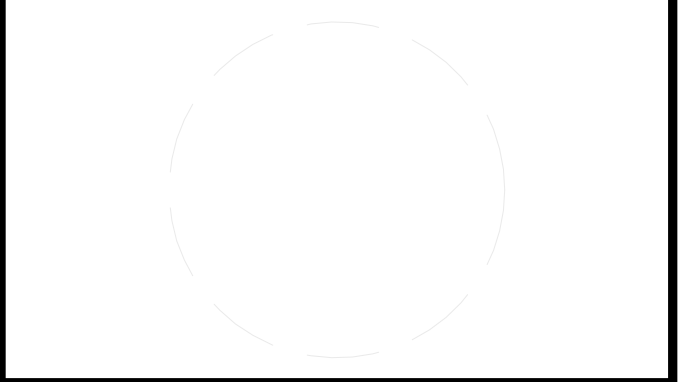
**SHEET KEYNOTES**

- 1. COLD WATER LINE - 3/4" PEX
- 2. HOT WATER LINE - 3/4" PEX



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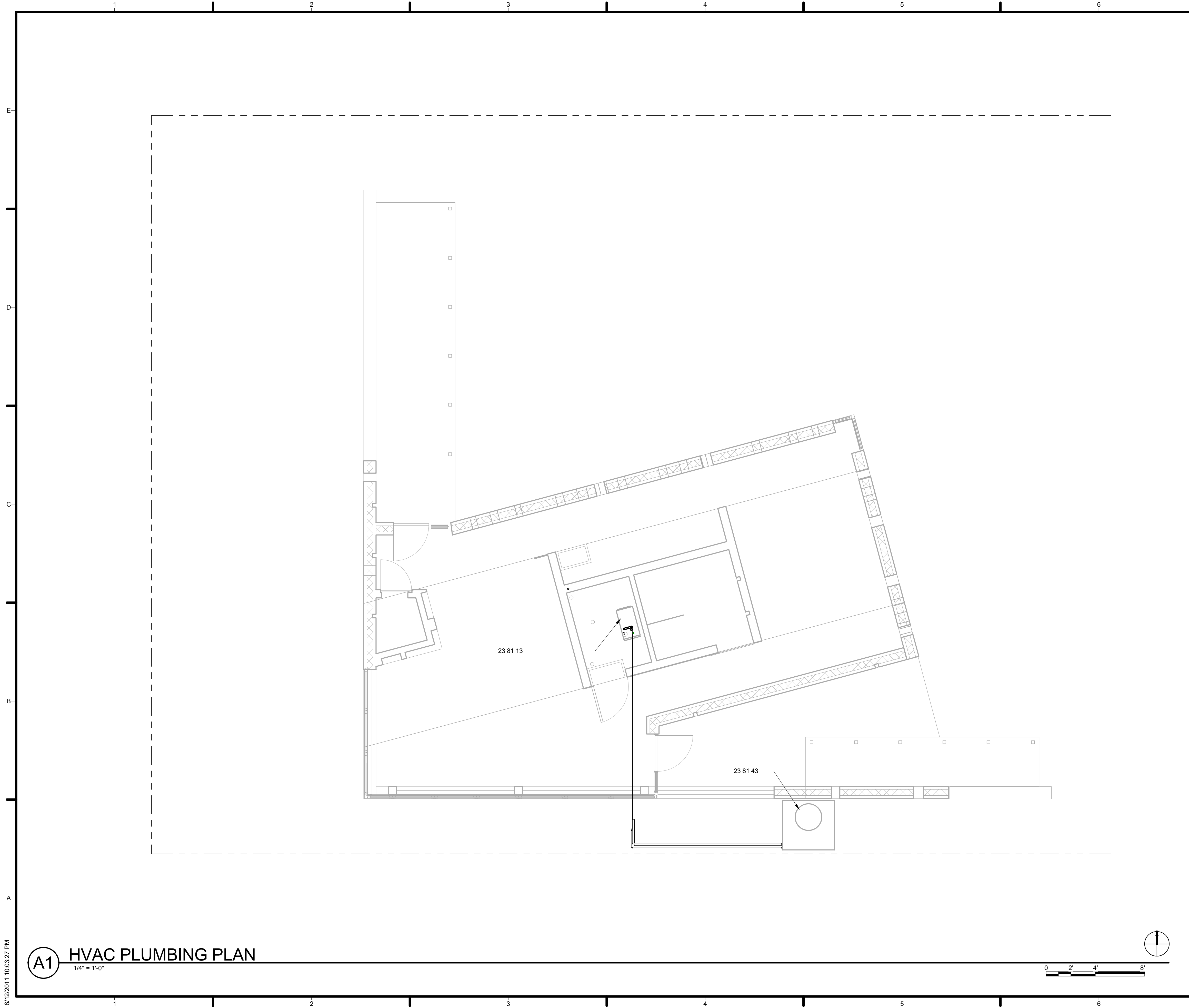
SHEET TITLE  
**SOLAR WATER SYSTEM**

**P-105**

**(A1) EVACUATED TUBING**  
 1/4" = 1'-0"

8/12/2011 10:03:23 PM





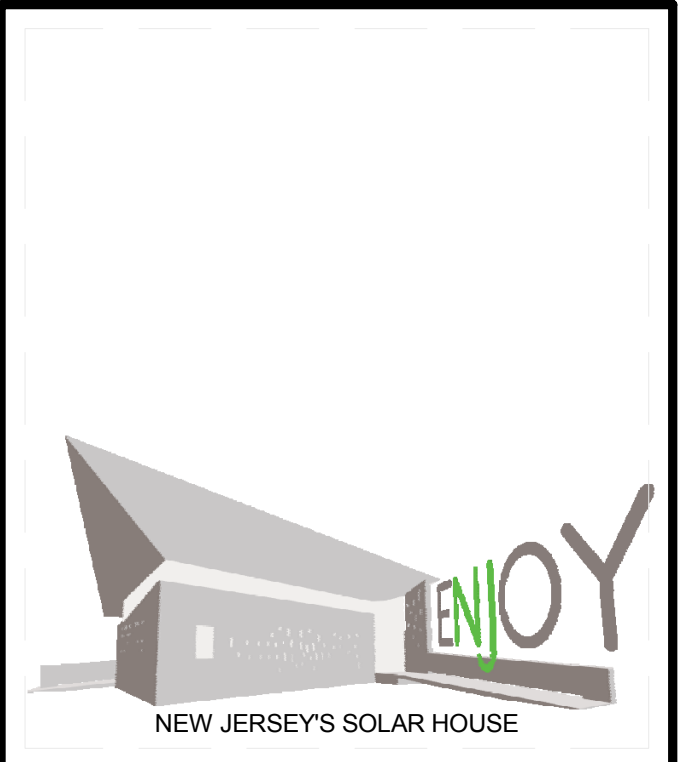
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

23 81 13 PACKAGED IEC AIR HANDLER  
 23 81 43 AQUA PRODUCTS REVERSE CYCLE CHILLER

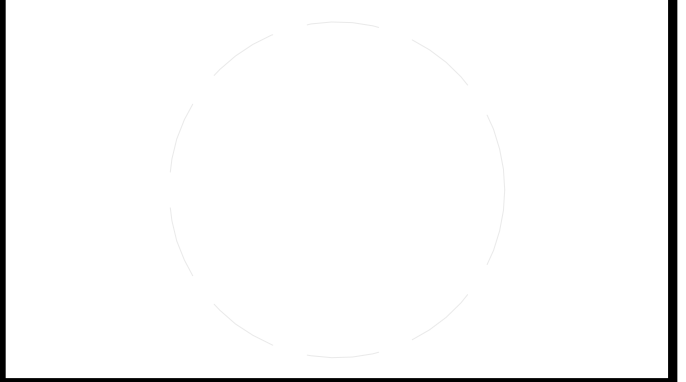
**SHEET KEYNOTES**

1. CONDENSER PIPE - 3/4" PEX



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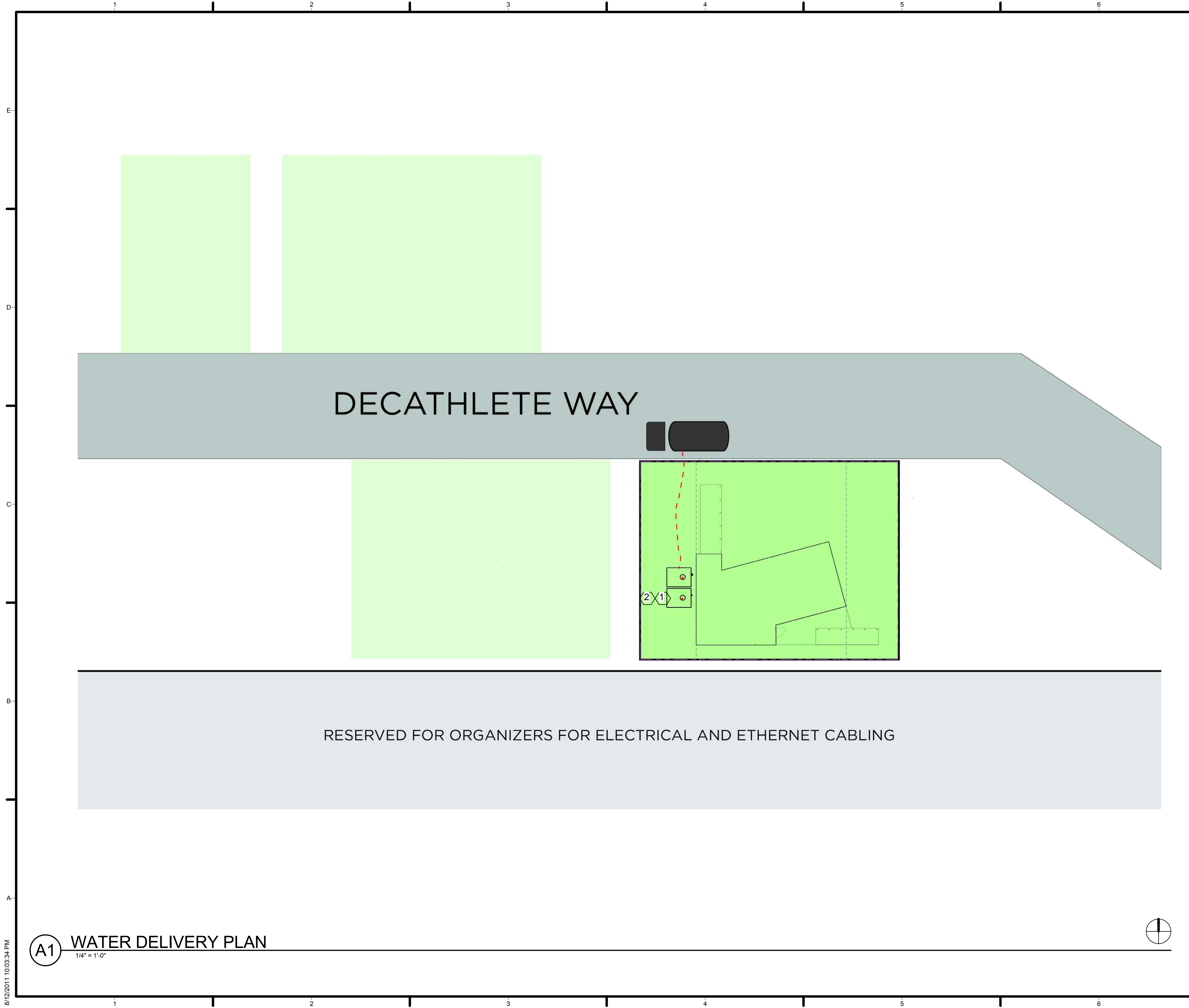
LOT NUMBER: LOT 104  
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SHEET TITLE  
**HVAC PLUMBING SITE PLAN**

**P-106**

**(A1) HVAC PLUMBING PLAN**  
 1/4" = 1'-0"

8/12/2011 10:03:27 PM



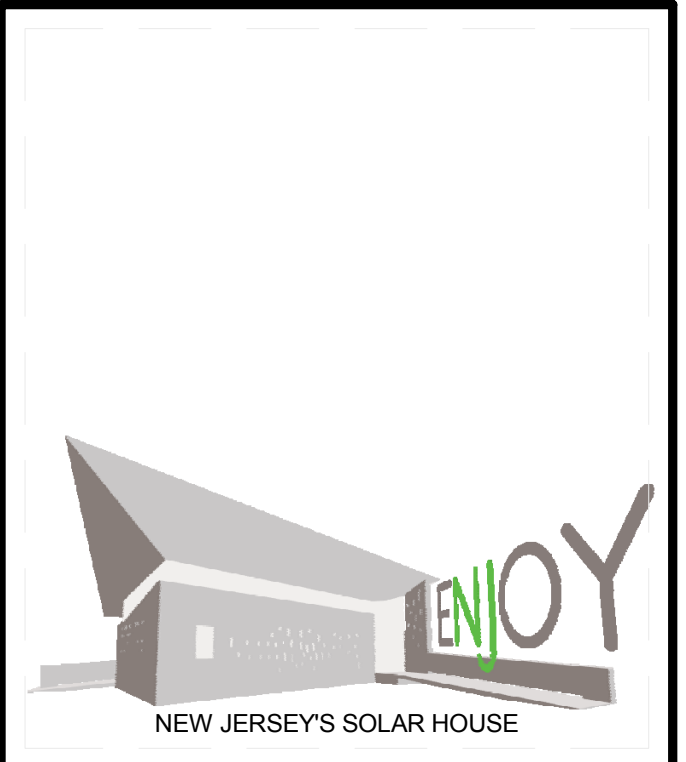
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

22 12 00 FACILITY POTABLE-WATER STORAGE TANKS  
22 13 53 FACILITY SEPTIC TANKS

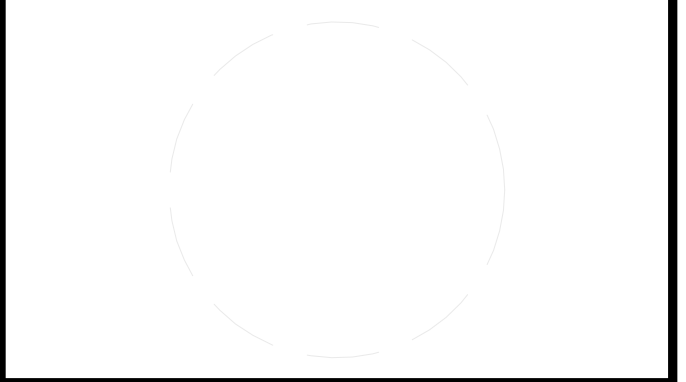
**SHEET KEYNOTES**

- 1. 750 GALLON DOMESTIC SUPPLY TANK AND WATER DELIVERY LOCATION - POLYETHYLENE 88" X 69" X 42" OPENING DIAMETER 16 1/4"
- 2. WATER DELIVERY LOCATION - 20" CLEARANCE, 16 1/4" DIAMETER



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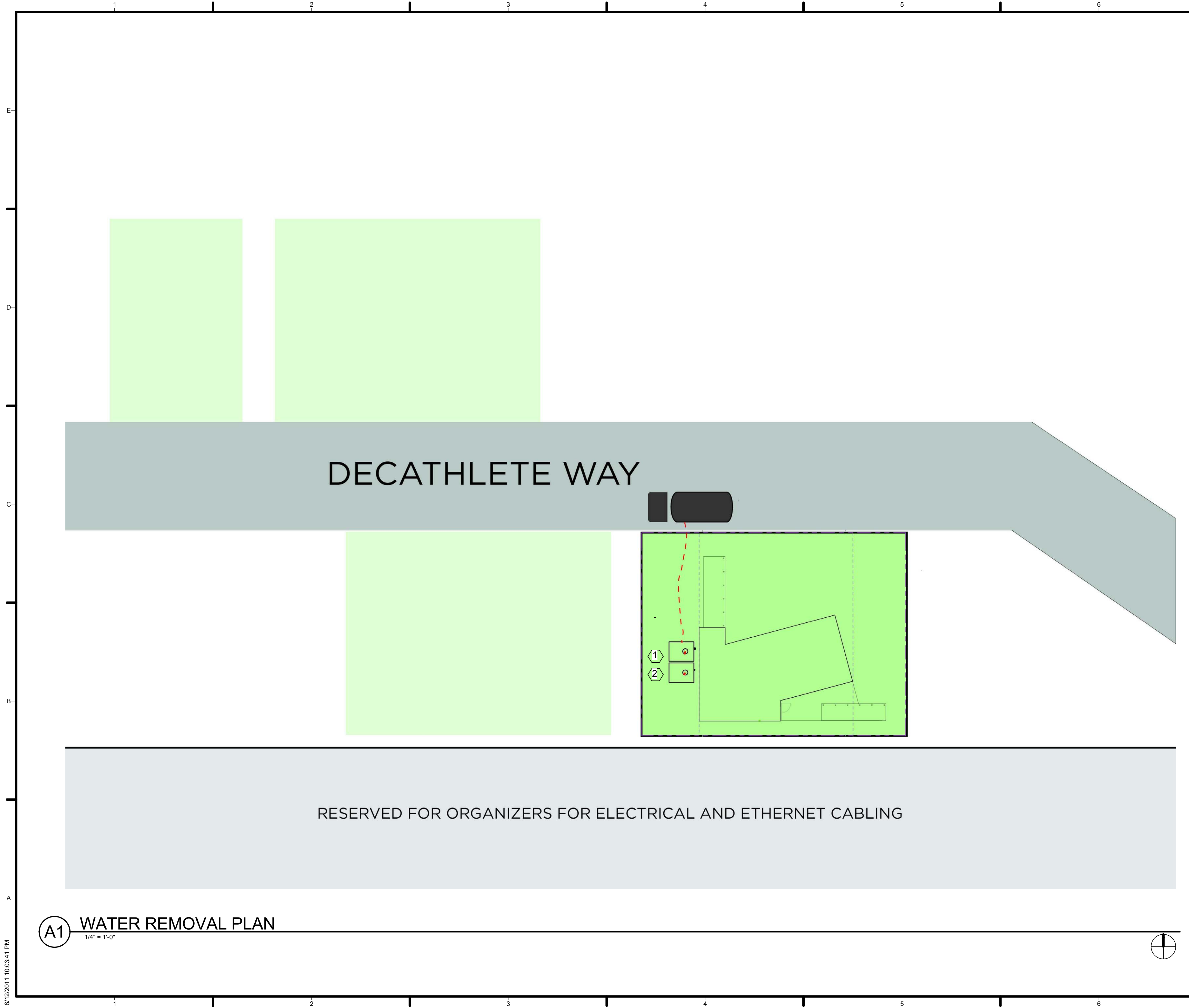
MARK	DATE	DESCRIPTION
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SHEET TITLE  
**WATER DELIVERY PLAN**

**P-107**



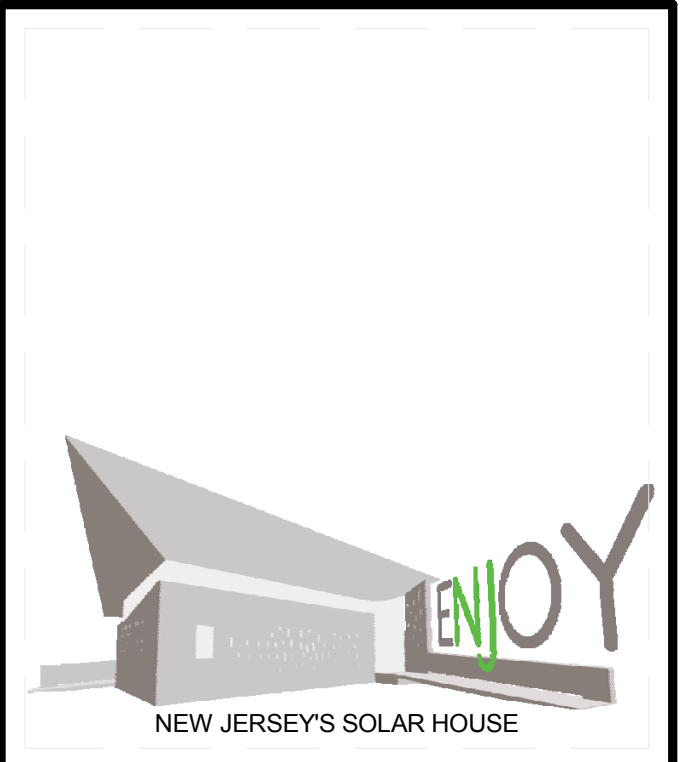


GENERAL SHEET NOTES

REFERENCE KEYNOTES

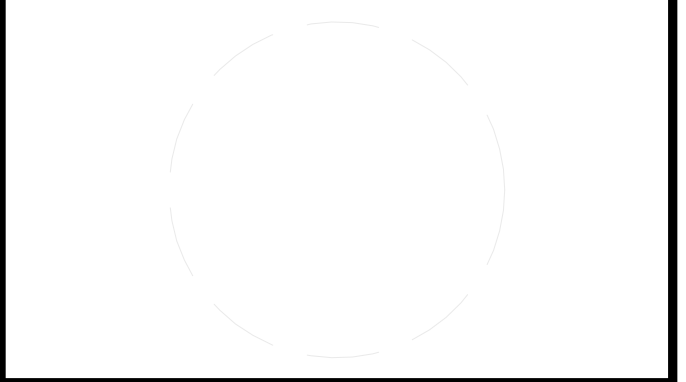
SHEET KEYNOTES

- 1. 750 GALLON SEPTIC TANK AND WATER REMOVAL LOCATION - POLYETHYLENE 88" X 69" X 42" OPENING DIAMETER 16 1/4"
- 2. WATER REMOVAL LOCATION - 20" CLEARANCE, 16 1/4" DIAMETER



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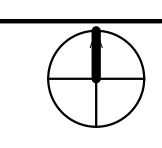
MARK	DATE	DESCRIPTION
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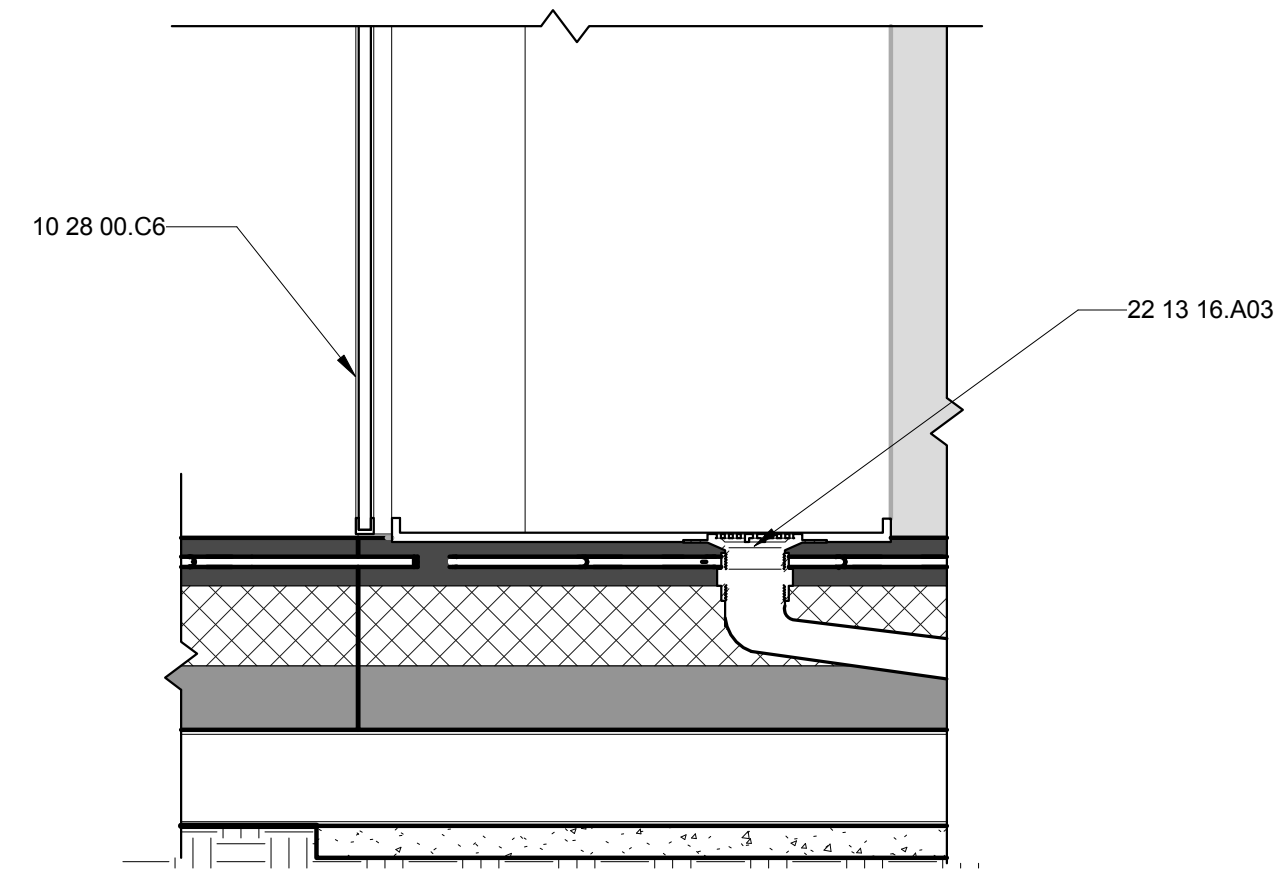
SHEET TITLE  
**WATER REMOVAL PLAN**

**P-108**

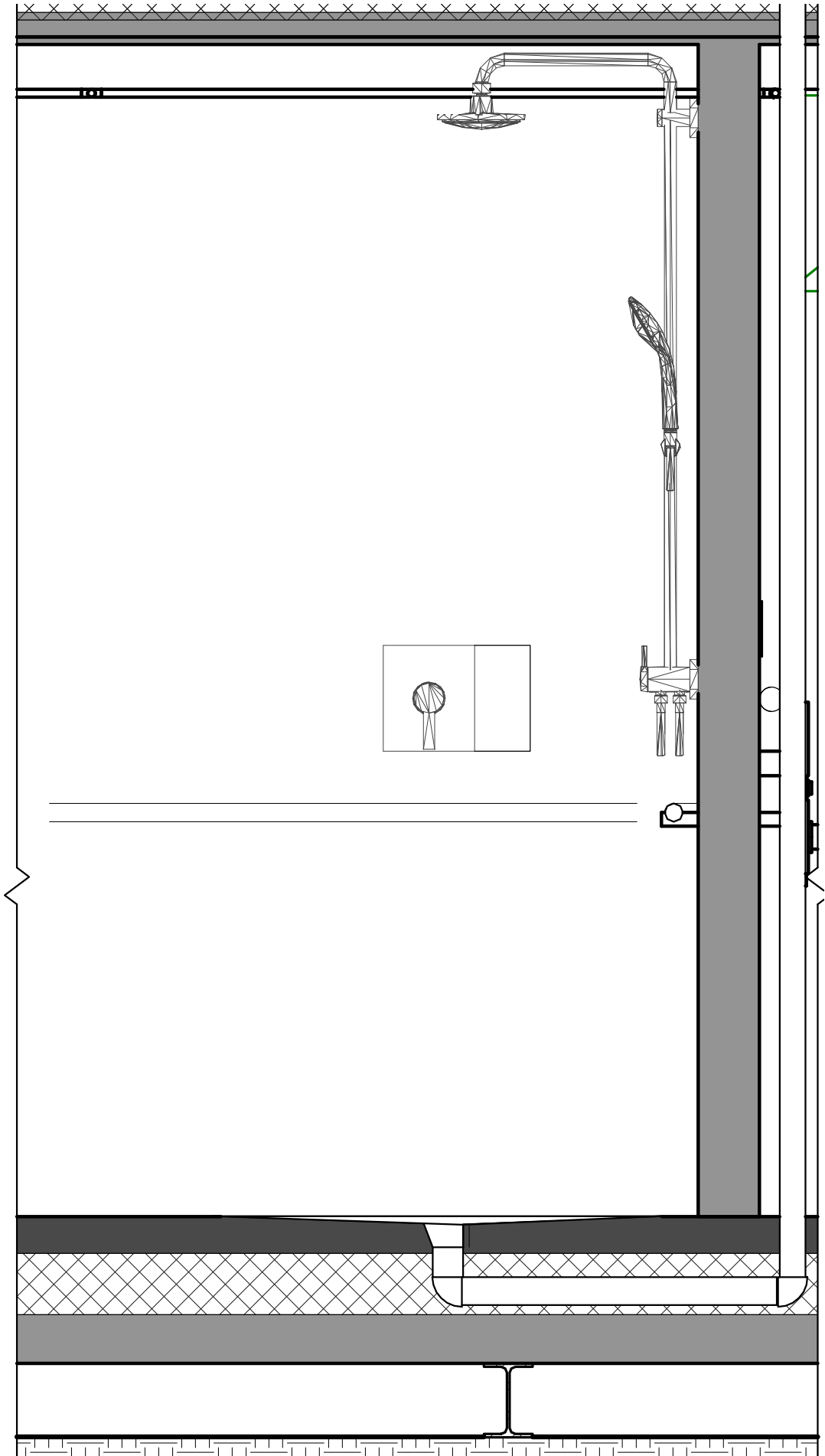
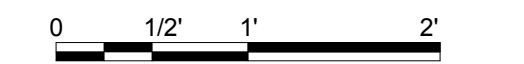
**(A1) WATER REMOVAL PLAN**  
 1/4" = 1'-0"



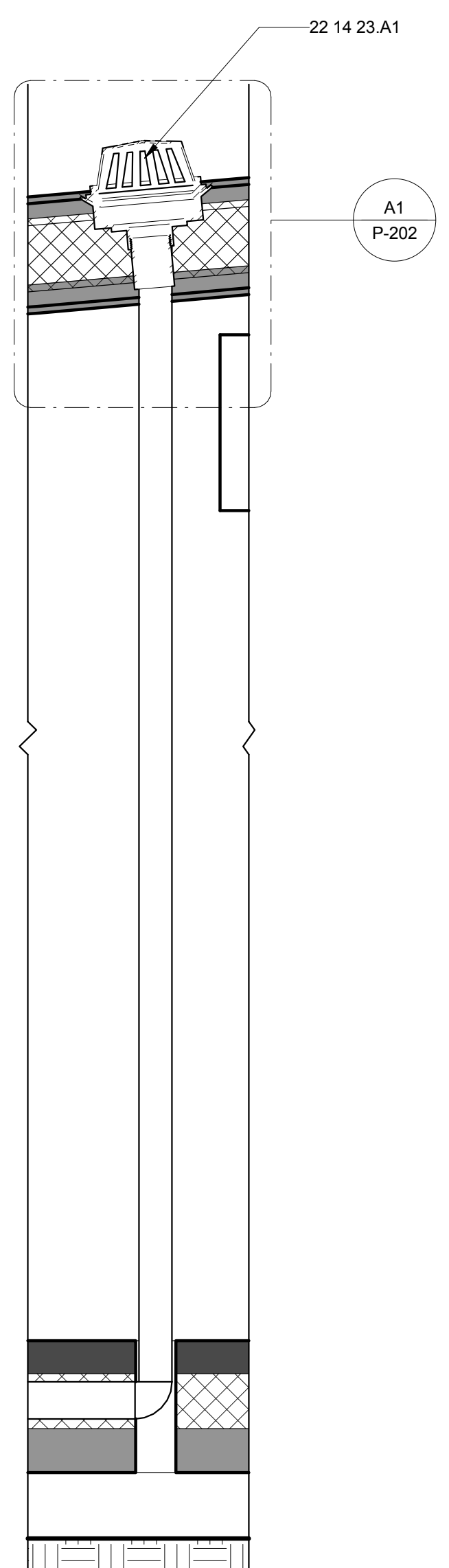
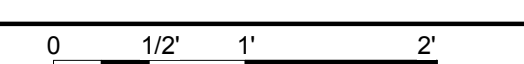
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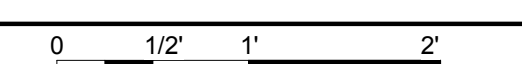
**D1** DRAIN PAN DETAIL SECTION  
1" = 1'-0"



**A1** DRAIN SECTION  
1" = 1'-0"



**A3** ROOF DRAIN SECTION  
1" = 1'-0"

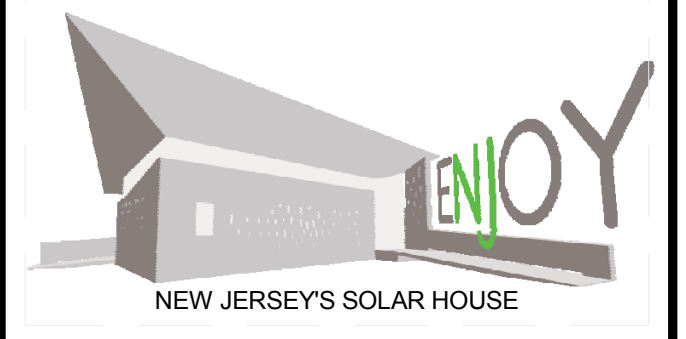


**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

10 28 00.C6	GLASS CRAFTERS GLASS SHOWER DOOR
22 13 16.A03	PROFLO FLOOR DRAIN
22 14 23.A1	ZURN MAIN AREA ROOF DRAIN

**SHEET KEYNOTES**



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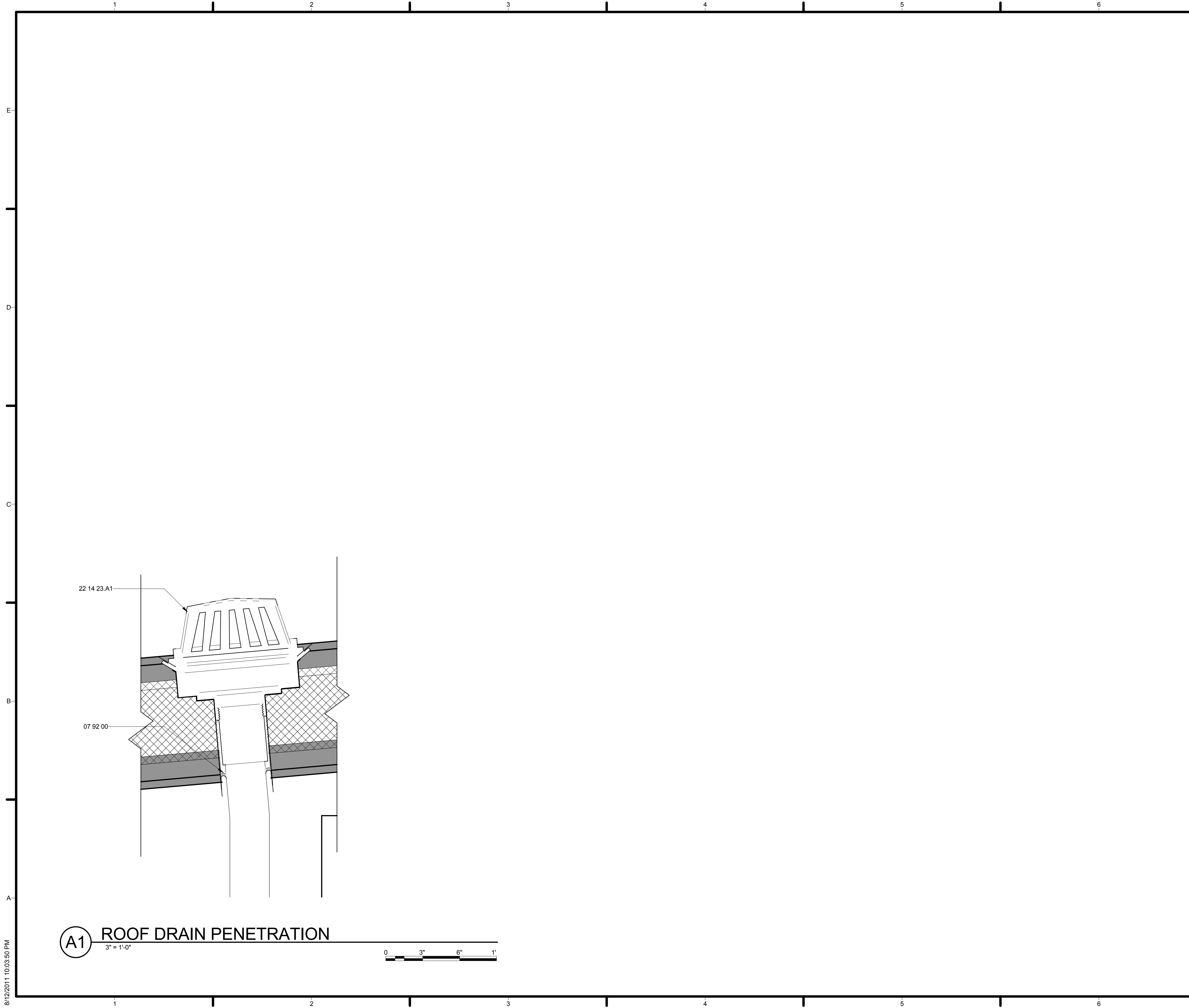
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SHEET TITLE  
**PLUMBING SECTIONS**

**P-201**

8/12/2011 10:03:46 PM





**(A1) ROOF DRAIN PENETRATION**  
3" = 1'-0"



8/12/2011 10:03:50 PM

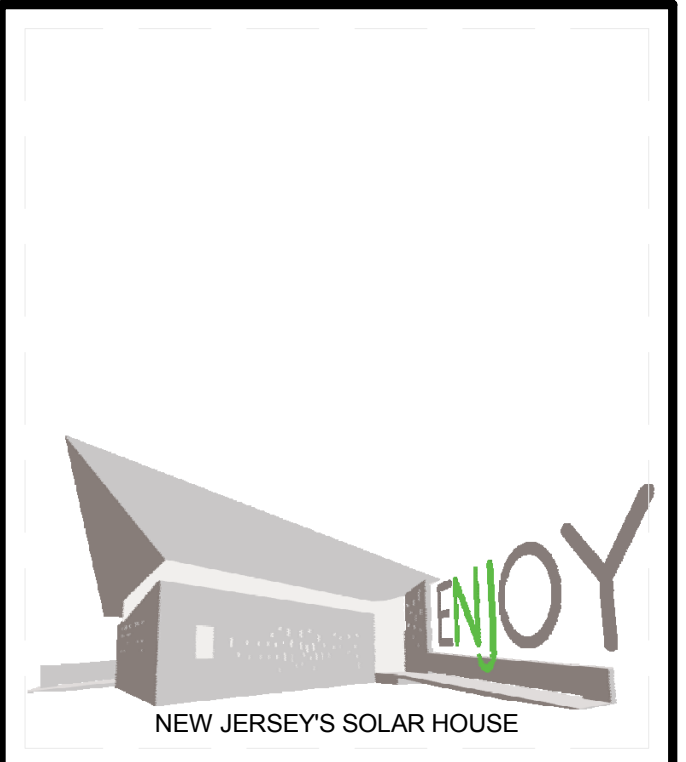
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS
22 14 23.A1	ZURN MAIN AREA ROOF DRAIN

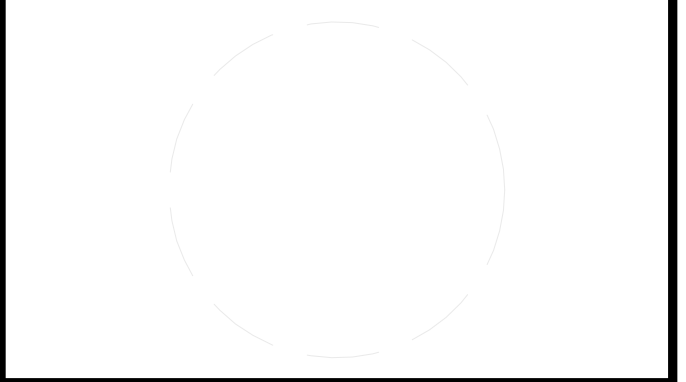
**SHEET KEYNOTES**

MARK	DATE	DESCRIPTION
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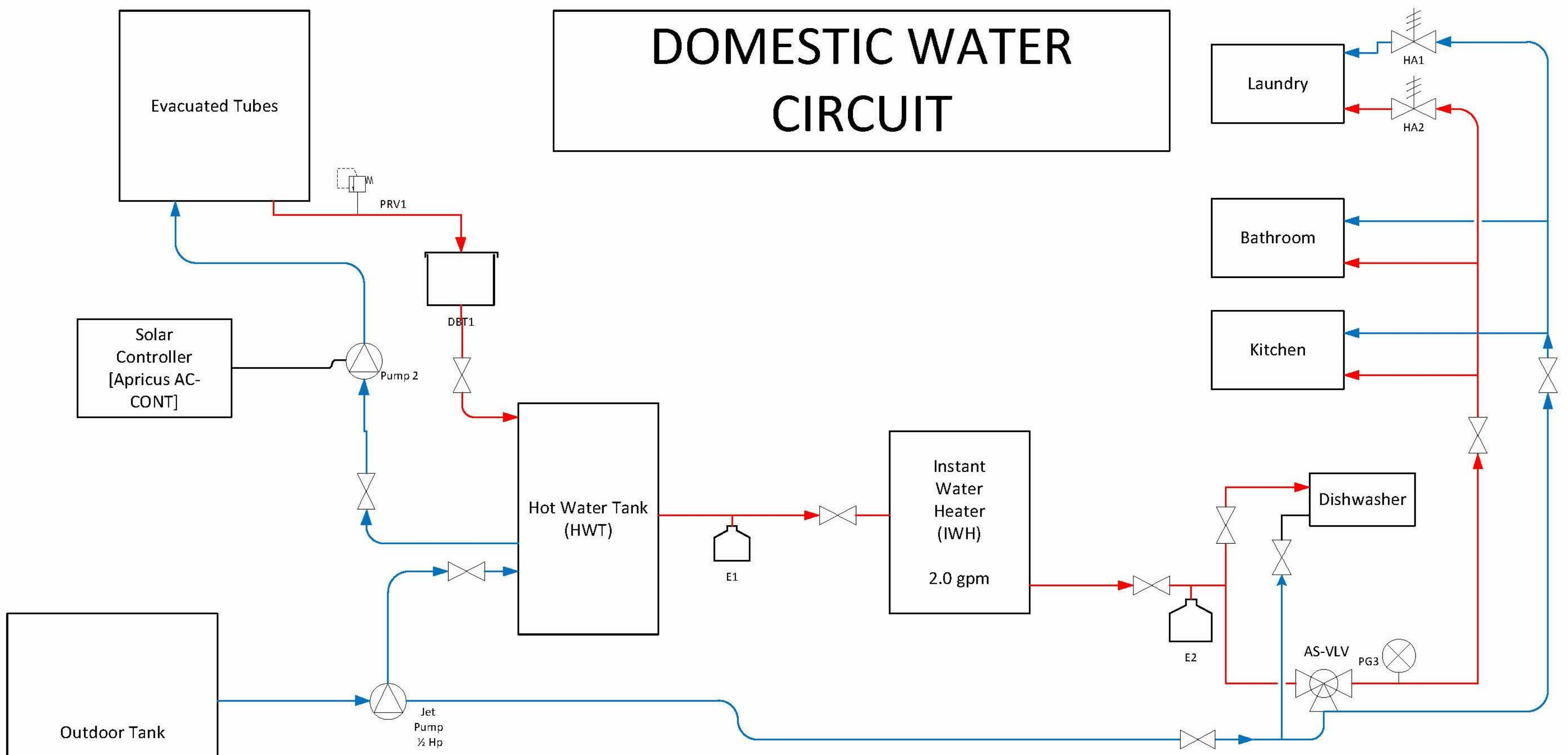


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SHEET TITLE  
**PLUMBING DETAILS**

**P-202**

# DOMESTIC WATER CIRCUIT



**Notes**

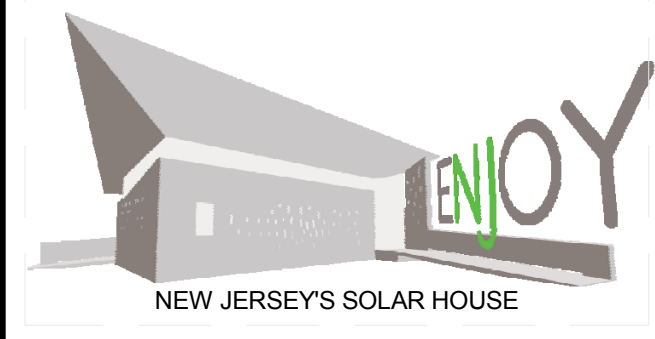
All pipes are 3/4" NPT

40% glycol in space conditioning loops (NOT DURING COMPETITION PERIOD)

Distilled water in solar thermal system

Domestic water bath in Hot water tank

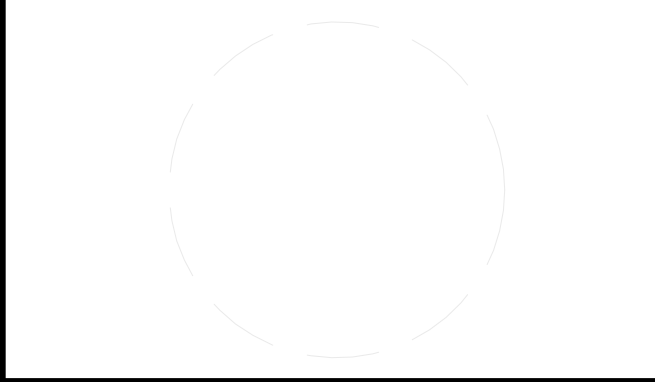
Legend	
	Valve
	Pressure Gauge
	Anti-Scalding Valve
	Pump
	Expansion Tank
	Hammering Arrestor
	Drain Back Tank
	Temperature and Pressure Relief Valve



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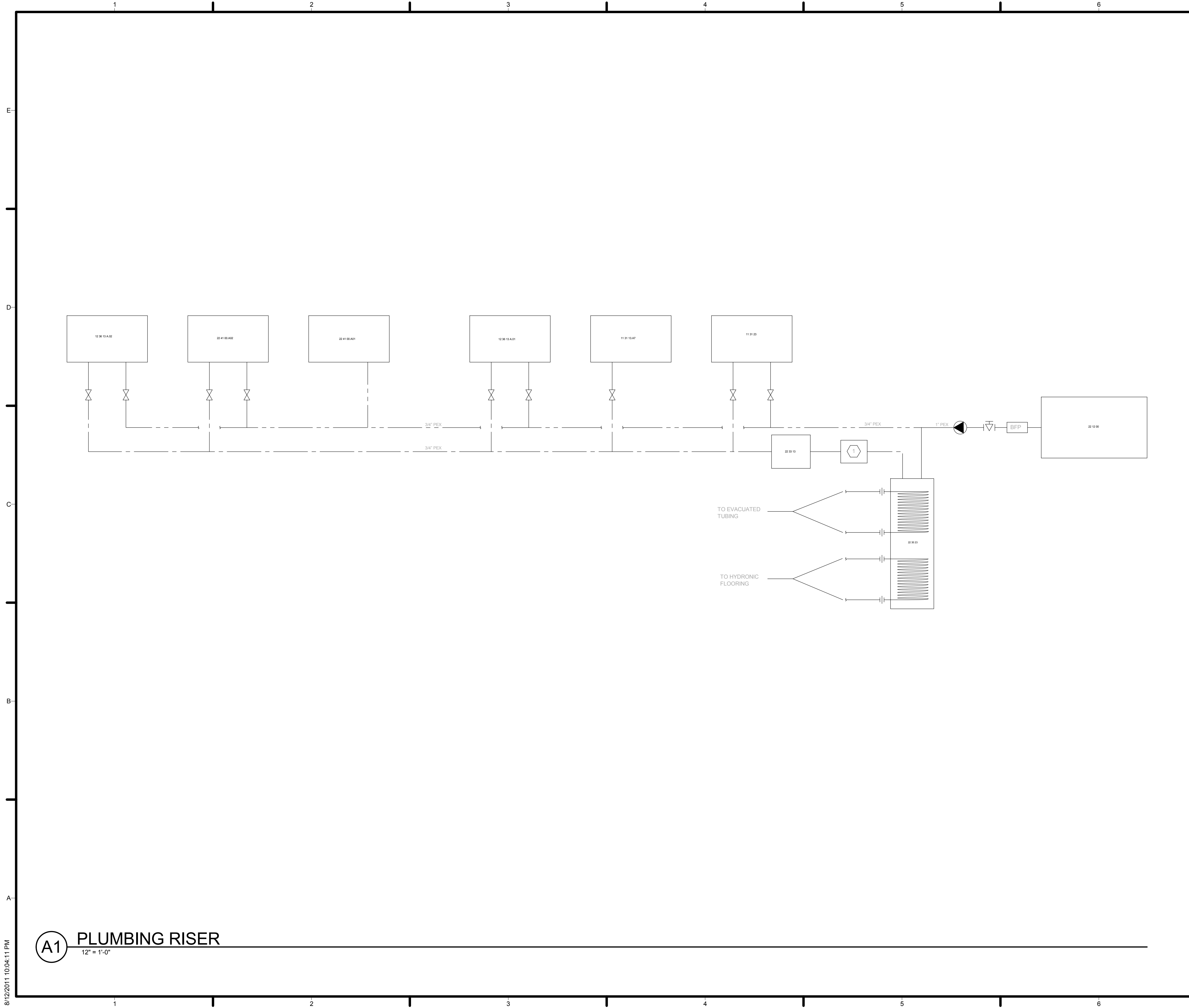
**SHEET TITLE**

DOMESTIC WATER CIRCUIT DIAGRAM

**P-500**

8/12/2011 10:03:54 PM





**GENERAL SHEET NOTES**

**PLUMBING SYMBOL LEGEND**

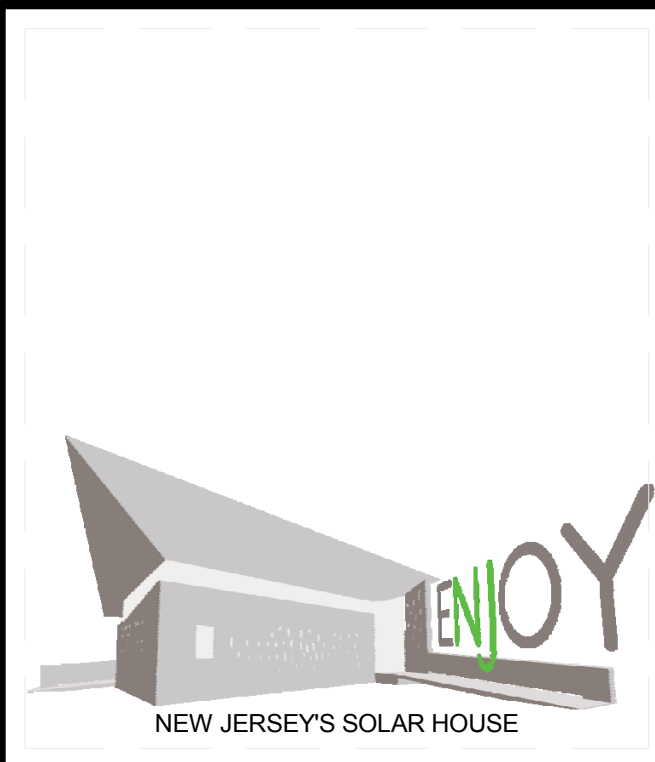
MARK	DESCRIPTION
---	DOMESTIC HOT WATER
---	DOMESTIC COLD WATER
BFP	BACKFLOW PREVENTER
(Circle with diagonal line)	TEMPORARY CIRCULATOR
(Triangle with vertical line)	PLUG VALVE
(X in circle)	ISOLATING VALVE
(Triangle with horizontal line)	THERMOSTATIC MIXING VALVE
(Two vertical lines)	UNION VALVE

**REFERENCE KEYNOTES**

22 12 00	POTABLE WATER STORAGE TANK
22 35 23	DUAL TANK HEAT EXCHANGER
22 33 13	TANKLESS ELECTRIC WATER HEATER
11 31 23	RESIDENTIAL LAUNDRY APPLIANCES
11 31 13.A7	KENMORE DISHWASHER
12 36 13 A.01	TRUEFORM CONCRETE KITCHEN SINK AND COUNTER-TOP
22 41 00.A01	KOHLER KELSTON WATER CLOSET
22 41 00.A02	CUSTOM SHOWER STALL
12 36 13 A.02	TRUEFORM CONCRETE SINK

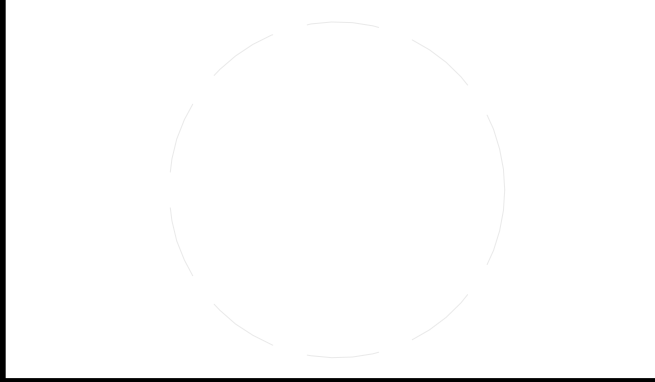
**SHEET KEYNOTES**

1. THERMAL EXPANSION TANK



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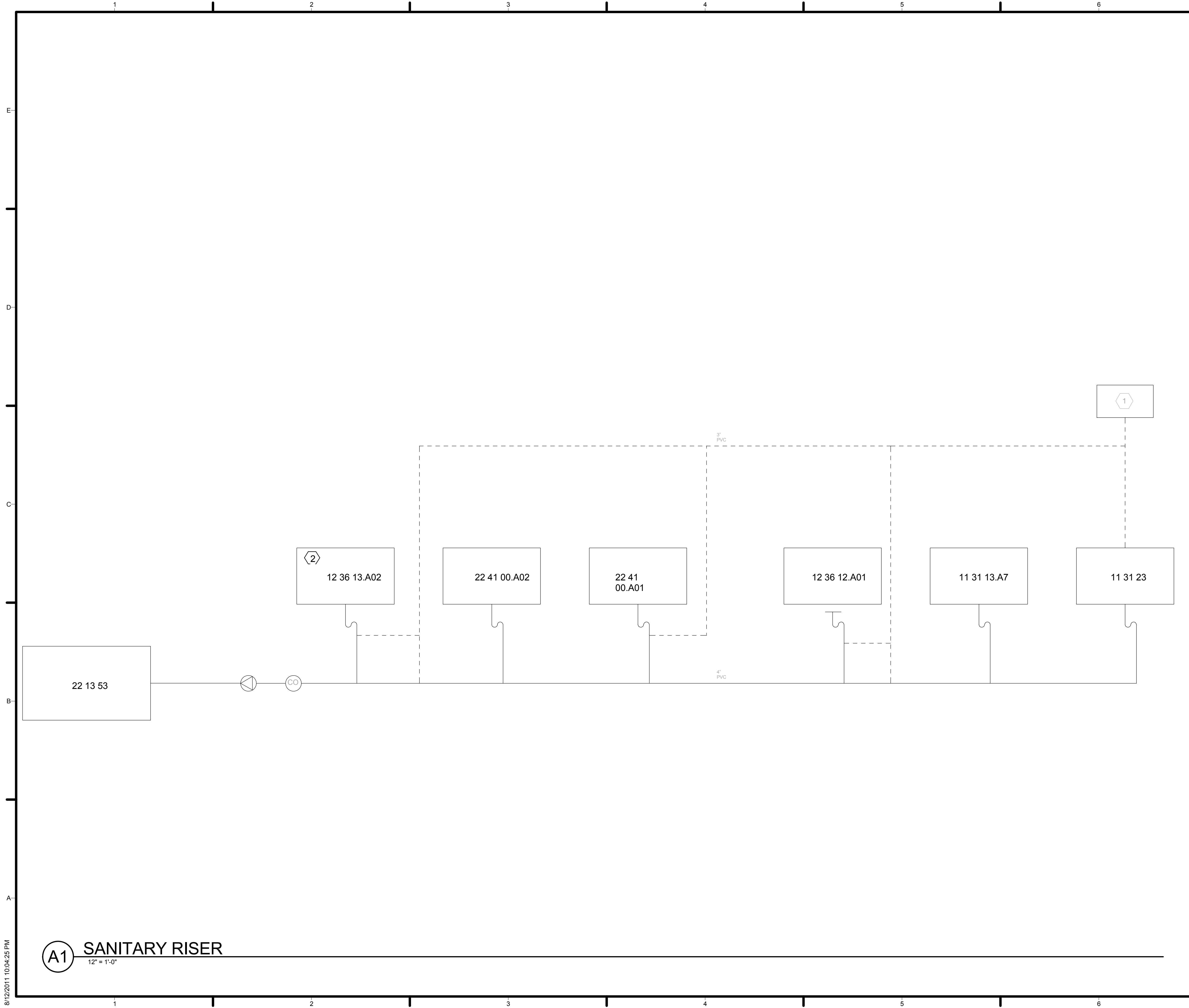
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**SHEET TITLE**  
 PLUMBING RISER

**P-501**

**A1** PLUMBING RISER  
 12" = 1'-0"

8/12/2011 10:04:11 PM



**GENERAL SHEET NOTES**

SANITARY SYMBOL LEGEND

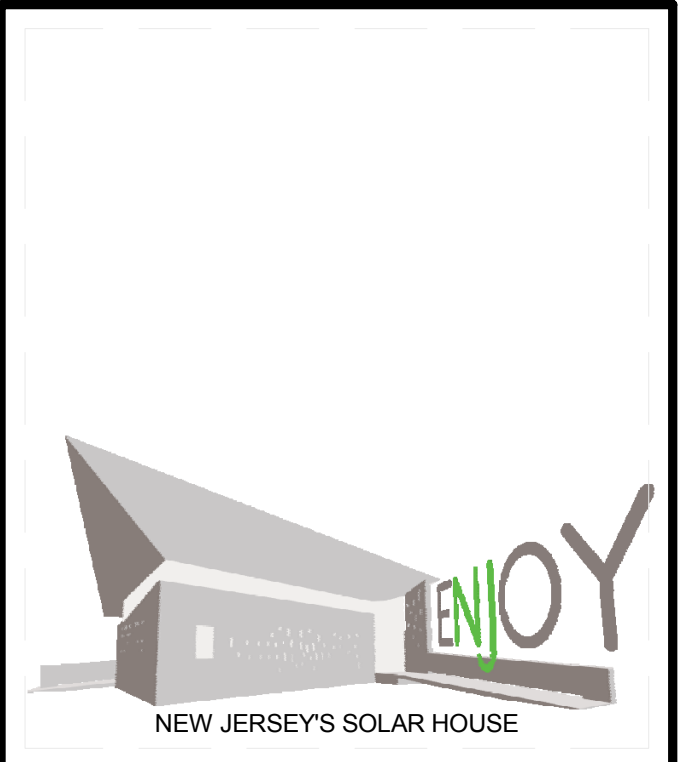
MARK	DESCRIPTION
—	SANITARY
- - - - -	VENTING
[BFP]	BACKFLOW PREVENTER
[Temp Circ]	TEMPORARY CIRCULATOR
[Plug Valve]	PLUG VALVE
[CO]	CLEANOUT

**REFERENCE KEYNOTES**

- 11 31 23 RESIDENTIAL LAUNDRY APPLIANCES
- 11 31 13.A7 KENMORE DISHWASHER
- 12 36 13.A.01 TRUEFORM CONCRETE KITCHEN SINK AND COUNTER-TOP
- 12 36 13.A.02 TRUEFORM CONCRETE SINK
- 22 13 53 FACILITY SEPTIC TANK
- 22 41 00.A01 KOHLER KELSTON WATER CLOSET
- 22 41 00.A02 CUSTOM SHOWER STALL

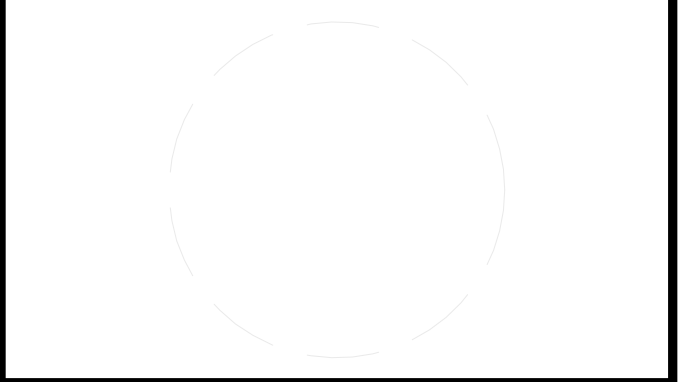
**SHEET KEYNOTES**

1. VENT STACK
2. THERE WILL BE NO REUSE OR IRRIGATION FROM THIS SANITARY TANK.



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SHEET TITLE  
**SANITARY RISER**

**P-502**

**A1 SANITARY RISER**  
 12" = 1'-0"

8/12/2011 10:04:25 PM



**PIPE SCHEDULE**

SYSTEM TYPE	DIAMETER	LENGTH
Domestic Cold Water	1"	11'-5 1/2"
Domestic Cold Water	1"	43'-6 1/8"
Domestic Cold Water	2"	5'-8 1/4"
Domestic Cold Water	2"	3 5/8"

Domestic Hot Water	1"	6'-3 3/4"
Domestic Hot Water	1"	12'-0 1/2"
Domestic Hot Water	1"	4 3/8"
Domestic Hot Water	2"	1"

Fire Protection Wet	1"	86'-5 3/8"
---------------------	----	------------

Hydronic Return	1"	10 1/8"
Hydronic Return	2"	28'-2 1/4"

Hydronic Supply	1"	1'-0 1/8"
Hydronic Supply	2"	25'-9 3/8"
Hydronic Supply	2"	8'-3 3/4"

Other	1"	13'-11 1/8"
Other	1"	44'-0 1/2"
Other	2"	13'-9 3/4"

Sanitary	2"	6 1/2"
Sanitary	2"	39'-8 7/8"
Sanitary	3"	42'-9 5/8"

Undefined	1"	10'-9"
Undefined	1"	4'-1 7/8"
Undefined	1"	20'-3"
Undefined	2"	3'-3 3/4"
		423'-8 1/8"

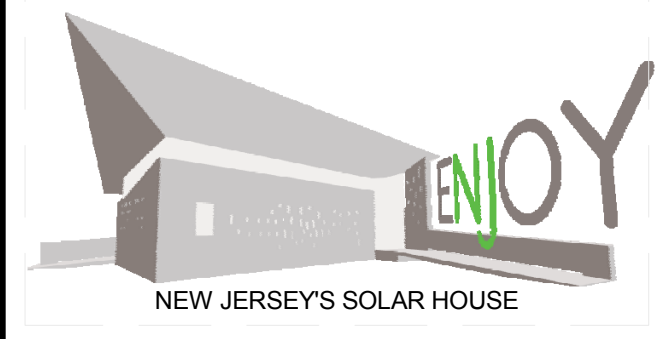
**PLUMBING FIXTURE SCHEDULE**

KEYNOTE	NAME	Manufacturer	Model
11 31 13.A7	24" EVOLUTION 500 SERIES DISHWASHER	BOSCH	SHE55M15UC
11 31 23	WHIRLPOOL WASHER AND DRYER	WHIRLPOOL	WFW9150WW, WED9150WW
12 36 13.A01	CONCRETE KITCHEN SINK WITH INTEGRAL COUNTERTOP	TRUEFORM	
12 36 13.A02	CONCRETE BATHROOM SINK	TRUEFORM	
22 12 00	POTABLE WATER STORAGE TANK	NOWESCO	NOWESCO
22 13 53	SANITARY STORAGE WATER TANK	NOWESCO	NOWESCO
22 14 13	ROOF DRAIN	ZURN	
22 35 23	DUAL HEAT EXCHANGER	BRADFORD WHITE	
22 41 00.A01	TOILET	KOHLER	K-3597
22 41 00.A02	WALL MOUNTED DIVERTER SHOWER	GROHE	EUPHORIA
22 41 00.A03	MOEN 90 DEGREE CHROME FAUCET	MOEN	6700
22 41 00.A04	MOEN 90 DEGREE SINK FAUCET	MOEN	S7170
22 41 00.A05	SHOWER VALVE TRIM	GROHE	
22 41 00.A06	PROLINE SHOWER DRAIN	PROLINE	PLD36
22 70 00	VIEGA MANABLOC	VIEGA	
23 83 16.A1	DISTRIBUTION MANIFOLD	UPONOR (WIRSBORO) EP	A2670201

**GENERAL SHEET NOTES**

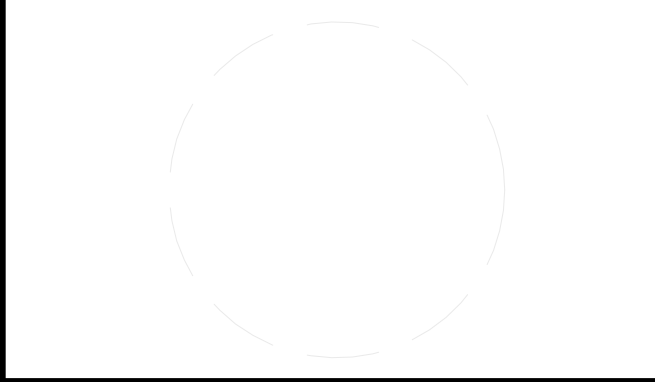
**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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**SHEET TITLE**  
 PLUMBING SCHEDULES

**P-601**

MECHANICAL SYMBOL LEGEND	
MARK	DESCRIPTION
	SUPPLY
	RETURN
	UNION VALVE
	ISOLATING VALVE
	2-PORT ELECTRICALLY OPERATED VALVE
	MIXING VALVE
	3-WAY GATE VALVE
	CHECK VALVE
	PERMANENT PUMP
	NEEDLE VALVE
	PRESSURE GAUGE
	TEMPERATURE SENSOR

## MECHANICAL SYSTEMS ABSTRACT

THE ENJOY HOUSE STRIVES TO CONSOLIDATE ALL OF THE ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEMS TO PERFORM WITH THE GOAL OF NET ZERO ENERGY USE AND MINIMAL ENVIRONMENTAL IMPACT. USING THE STRATEGIES DISCUSSED HERE THE ENJOY HOUSE WILL BECOME A SELF SUFFICIENT SINGLE FAMILY HOME WHOSE SYSTEMS WILL COMPLIMENT THE DESIGN OF THE PROJECT AND INTEGRATE MEP WITH THE HOUSE'S FORMAL ORGANIZATION. THE MAIN OBJECTIVE IS TO UNDERSTAND THE PERFORMATIVE REQUIREMENTS OF A WINNING SOLAR DECATHLON HOUSE AND TAILOR A DESIGN THAT WILL ALLOW THE HOUSE'S AESTHETIC TO INTEGRATE WITH THIS PERFORMANCE.

THE HOUSE'S ROOF IS ITS POWER SOURCE FOR BOTH ITS HEAT AND ELECTRIC. THE HOUSE HARVESTS ITS POWER THROUGH AN 8.4 KWH SYSTEM OF 38 SOUTH FACING SOLAR PANELS AND A SEPARATE SYSTEM OF PANEL OF A 30 TUBE HEAT TRANSFER SOLAR COLLECTOR. THIS SYSTEM WAS SIZED IN ACCORDANCE TO THE DAILY ACTIVITIES, APPLIANCES, AND COMPETITIONS THAT THE HOUSE WILL BE A PART OF. EACH PANEL HAS A MICRO INVERTER ON IT CONVERTING ITS DC POWER TO AC, WHICH BENEFITS THE SYSTEM IN TERMS OF EFFICIENCIES AND GOES TO THE ELECTRIC PANEL, THEN OUT TO THE GRID. THE HOUSE'S PROGRAM IS PLANNED AROUND A CENTRAL CORE THAT CONTAINS ALL OF THE MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS (THE "WET CELL") WHICH THESE SYSTEMS COME DOWN INTO THROUGH THE CENTER OF THE ROOF, ALONG WITH PLUMBING FOR DRAINAGE. THE EVACUATED TUBING RUNS INTO THE FIRST COIL OF A DUAL HEAT EXCHANGER, USING SOLAR RADIATION FOR HEATING THE HOUSE'S WATER. THIS SYSTEM IS FIVE TIMES MORE EFFICIENT MEANS THAN HEATING WITH ELECTRIC.

TO COOL THE HOUSE, THERE IS A HORIZONTALLY MOUNTED 12,000 BTU AIR HANDLER THAT DISTRIBUTES 650 CFM TO THE LIVING AREAS OF THE HOUSE. THERE ARE TWO SUPPLY REGISTERS AT THE CEILING ON THE EAST AND WEST SIDE OF THE WET CELL AND, ONE RETURN REGISTER FEEDING FROM THE BASE OF THE CLOSET OUT TO THE SOUTHERN HALLWAY. THIS PLAN IS THE MOST EFFECTIVE FOR COOLING THE HOUSE, AND USES THE LEAST AMOUNT OF DUCTS AND POWER. THE CONDENSER IS AIR TO WATER AND SITS ON THE SOUTH SIDE OF THE SITE. THIS CONDENSER TYPE ALLOWS US TO REVERSE CYCLES AND USE THE SAME UNIT TO HEAT THE HYDRONIC FLOORING, WHICH WE ARE USING FOR HEATING THE HOUSE. THIS IS AN EFFICIENT WAY OF HEATING THE HOUSE AND COMPLIMENTS THE IDEA OF THERMAL MASS AS A PASSIVE STRATEGY FOR A "SOFTER" HEATING SOURCE.

THE HOUSE RECEIVES ITS POTABLE WATER FROM A 750 GALLON TANK ON THE EAST SIDE OF THE SITE. FOR THE PLUMBING IT WAS IMPORTANT TO MINIMIZE THE LENGTH OF THE PIPING SO ALL OF THE APPLIANCES, SINKS, AND SHOWER ARE LOCATED ON THE PERIMETER OF THE WET CELL, MINIMIZING LENGTH. THE PLUMBING RUNS ALONG THE INSIDE OF THE MECHANICAL CLOSET. THE DOMESTIC WATER IS HEATED BY THE DUAL HEAT EXCHANGER. AN INSTANT HOT WATER HEATER IS PROVIDED AS A BACKUP SYSTEM FOR THE EVACUATED TUBES IN THE EVENT THAT THE WATER IS NOT HEATED TO THE DESIRED TEMPERATURE. AFTER THE WATER IS USED IT IS PUMPED OUT TO A SEPTIC TANK ON THE EAST SIDE OF THE SITE. ALL OF THE SYSTEMS OF THE HOUSE ARE DESIGNED IN CONJUNCTION WITH THE PASSIVE STRATEGIES (THERMAL MASS, CROSS VENTILATION, ETC), MATERIAL PROPERTIES, AND FUNCTIONS OF THE HOUSE THEREBY OPTIMIZING ITS PERFORMANCE.

### HEATING AND AIR CONDITIONING

1. CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE, AND MUNICIPAL LAWS, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PROJECT.

2. DUCTWORK:

A. ALL DUCTWORK TO BE CONSTRUCTED WITH A SMOOTH INSIDE SURFACE.

B. DUCTWORK TO BE GALVANIZED STEEL, WEIGHTS AND CONSTRUCTION DETAILS WILL BE IN ACCORDANCE WITH LATEST ASHRAE GUIDE IN SMACNA.

C. DIMENSIONS GIVEN ON DRAWING FOR MAIN DUCTWORK ARE CLEAR I.D. RUN-OUTS SHALL BE OF SIZE NOTED ON PLAN.

3. RUN-OUTS SHALL HAVE V.C. DAMPER AT TAKE-OFF POINT. RISER WITHIN WALL CAVITY SHALL BE INSULATED FROM EXTERIOR WALL.

4. CONTRACTOR TO INSTALL AND BALANCE AIR SYSTEM TO PROVIDE ROOM TEMPERATURES (HEATING AND COOLING CYCLE) AS REQUIRED BY HOW APPROVED STANDARDS AND ASHRAE GUIDE.

5. CONTRACTOR SHALL SUBMIT TO BUILDER FOR APPROVAL:

A. SHOP DRAWING IN EQUIPMENT, INCLUDING DAY-NIGHT THERMOSTAT.

B. SAMPLE OF AIR OUTLETS AND RETURN GRILLS.

6. CONTRACTOR TO START AND OPERATE SYSTEM FOR ALL HOMES GIVING BUILDER OPERATING MANUAL AND INSTRUCTIONS. CONTRACTOR TO INSTRUCT HOMEOWNER ON SYSTEM OPERATIONS.

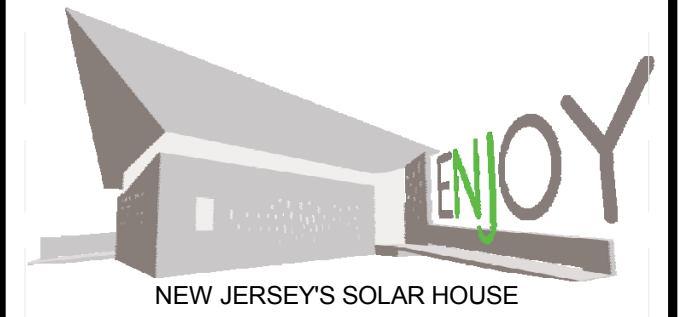
7. GUARANTEES:

A. EQUIPMENT, LABOR, AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF HOMEOWNER OCCUPANCY.

B. TWO (2) YEAR WARRANTY ON ALL EQUIPMENT. CONTRACTOR TO EXTEND ALL FACTORY WARRANTEES TO BUILDER AND/OR OWNER.

8. HEATING CYCLE: SYSTEM TO DELIVER 70° AT 0° OUTDOORS WITH A 15 MPH PREVAILING WIND.

9. COOLING CYCLE: SYSTEM TO DELIVER 75° AT 95° OUTDOORS WITH 50% RELATIVE HUMIDITY.



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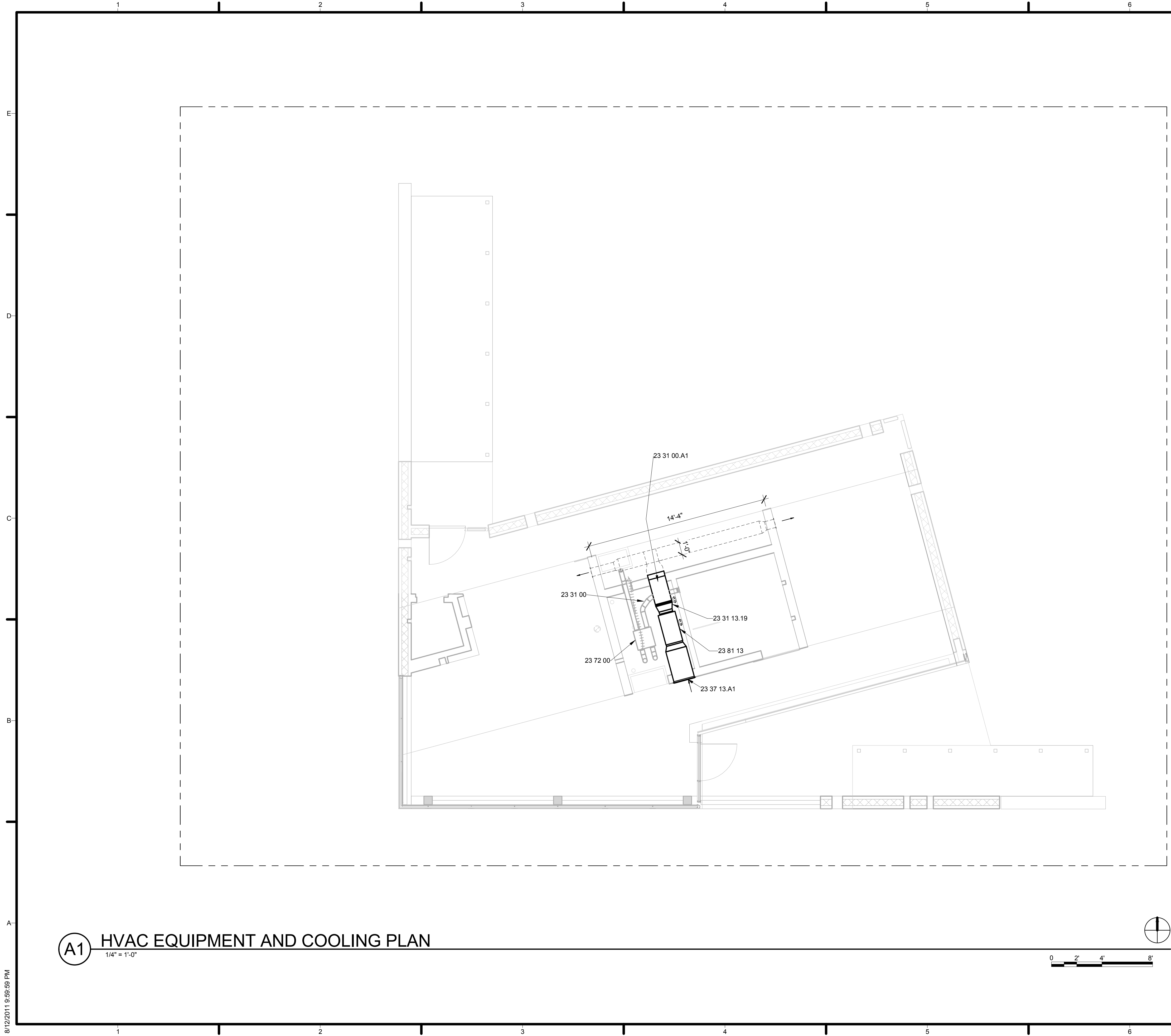
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A	03/22/2011	CONSTRUCTION DOCUMENTS

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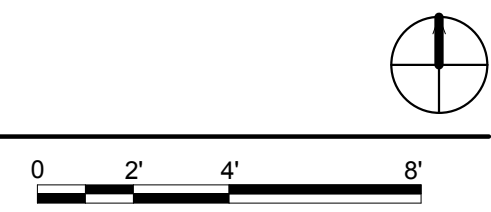
SHEET TITLE  
**MECHANICAL SYMBOLS AND NOTES**

**M-001**





**(A1) HVAC EQUIPMENT AND COOLING PLAN**  
 1/4" = 1'-0"

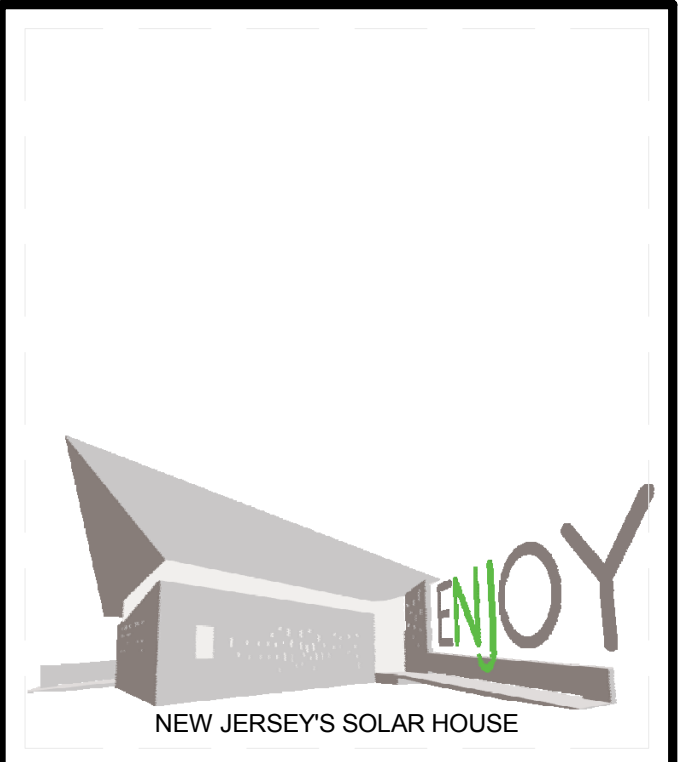


**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

11 31 13.A4	AIR KING EXHAUST HOOD
23 31 00	HVAC DUCTS AND CASINGS
23 31 00.A1	METAL DUCTS
23 31 13.19	METAL DUCT FITTINGS
23 37 13.A1	WALL MOUNTED REGISTER
23 72 00	HEAT RECOVERY VENTILATOR FANTECH SH704
23 81 13	PACKAGED IEC AIR HANDLER

**SHEET KEYNOTES**



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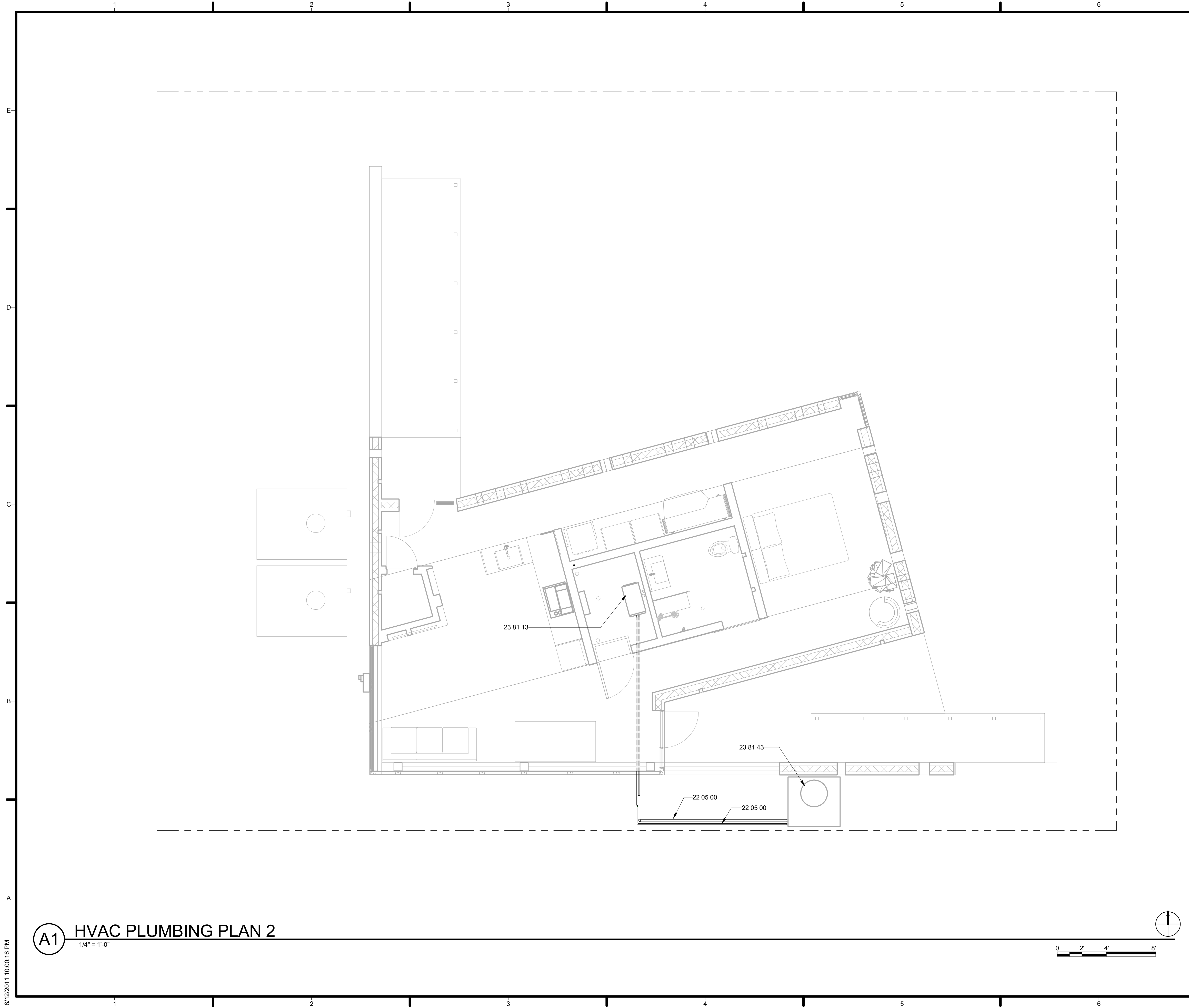
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SHEET TITLE  
**HVAC EQUIPMENT AND DISTRIBUTION PLAN**

**M-101**

8/12/2011 9:59:59 PM



**A1** HVAC PLUMBING PLAN 2  
1/4" = 1'-0"

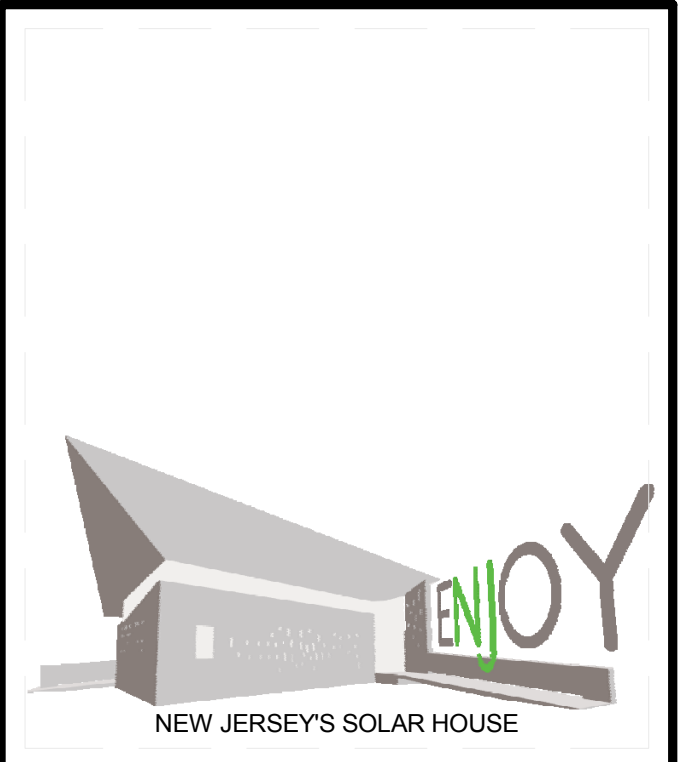
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**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

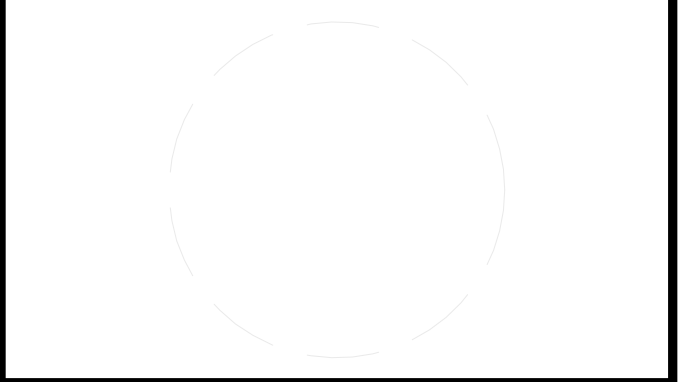
22 05 00	COMMON WORK RESULTS FOR PLUMBING
23 81 13	PACKAGED IEC AIR HANDLER
23 81 43	AQUA PRODUCTS REVERSE CYCLE CHILLER

**SHEET KEYNOTES**



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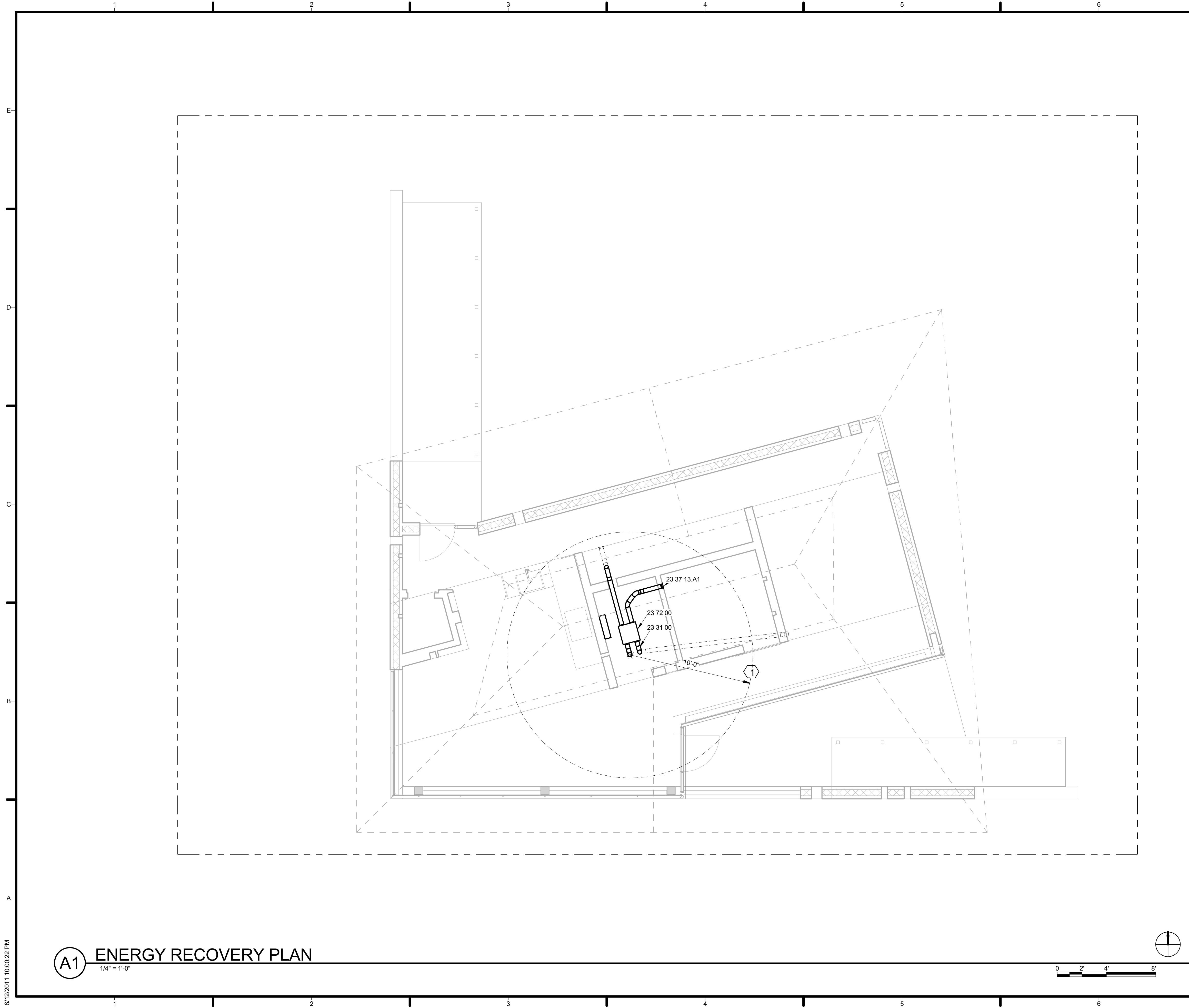
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SHEET TITLE  
**HVAC PLUMBING PLAN**

**M-102**





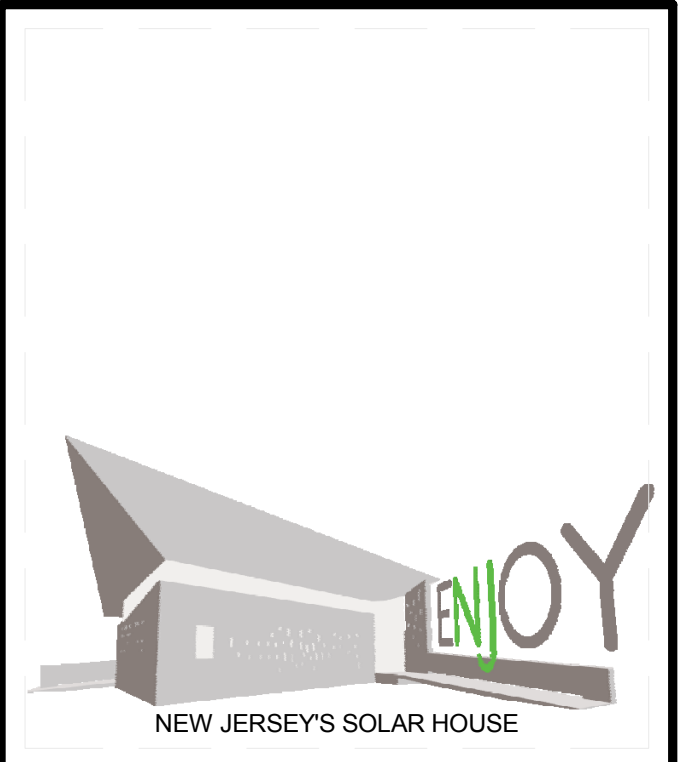
GENERAL SHEET NOTES

REFERENCE KEYNOTES

11 31 13.A4	AIR KING EXHAUST HOOD
23 31 00	HVAC DUCTS AND CASINGS
23 37 13.A1	WALL MOUNTED REGISTER
23 72 00	HEAT RECOVERY VENTILATOR FANTECH SH704

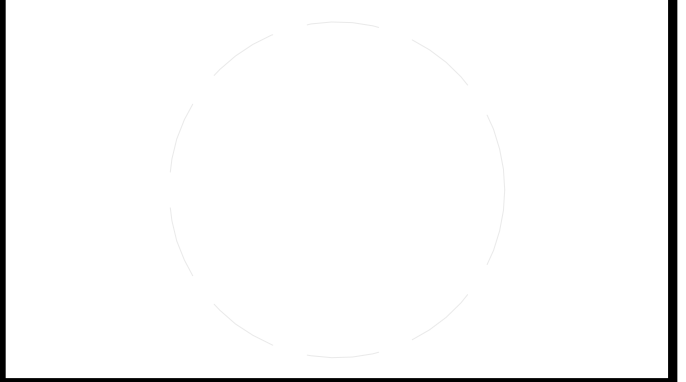
SHEET KEYNOTES

1.DISTANCE REQUIRED BETWEEN INTAKE AND EXHAUST



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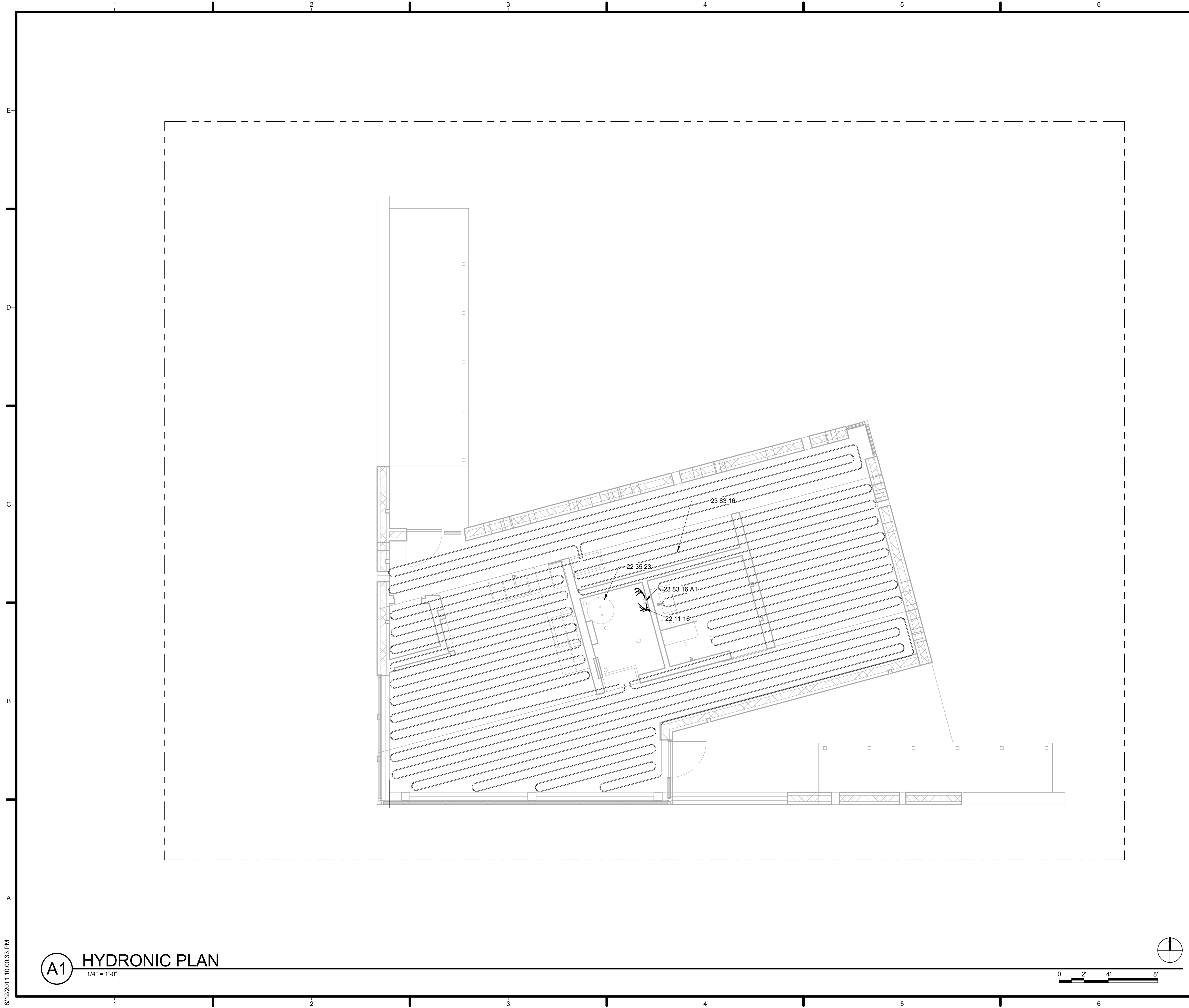
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**ENERGY RECOVERY PLAN**

**M-103**

**(A1) ENERGY RECOVERY PLAN**  
 1/4" = 1'-0"

8/12/2011 10:00:22 PM



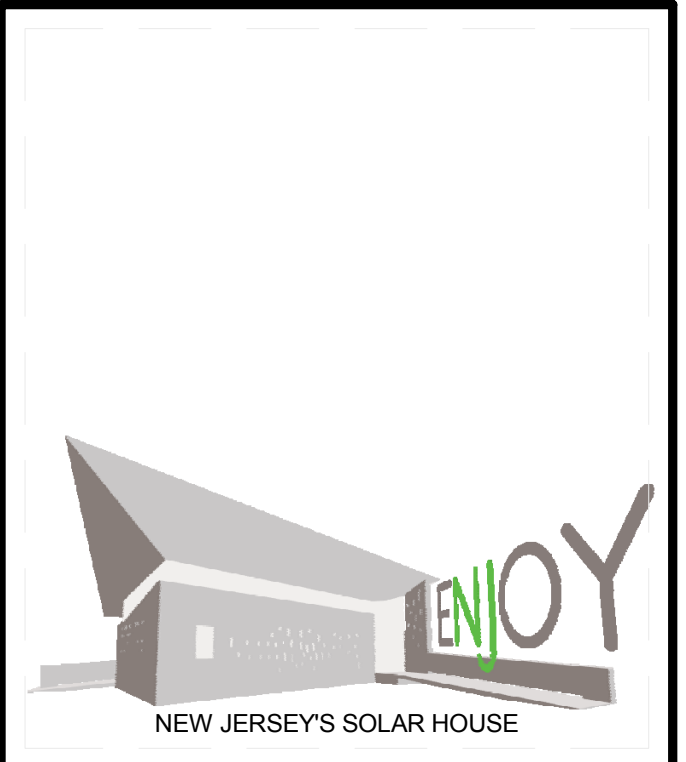
**GENERAL SHEET NOTES**

1. REFERENCE SHOP DRAWINGS FOR AS-BUILT HYDRONIC FLOORING LAYOUT

**REFERENCE KEYNOTES**

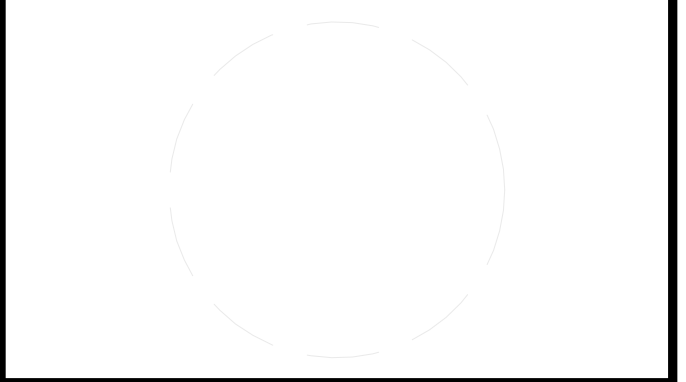
22 11 16 DOMESTIC WATER PIPING - PEX  
 22 35 23 BRADFORD WHITE 70 GALLON DUAL HEAT EXCHANGER  
 23 83 16 RADIANT-HEATING HYDRONIC PIPING  
 23 83 16.A1 UPONOR EP MANIFOLD FOR HYDRONIC FLOORING

**SHEET KEYNOTES**



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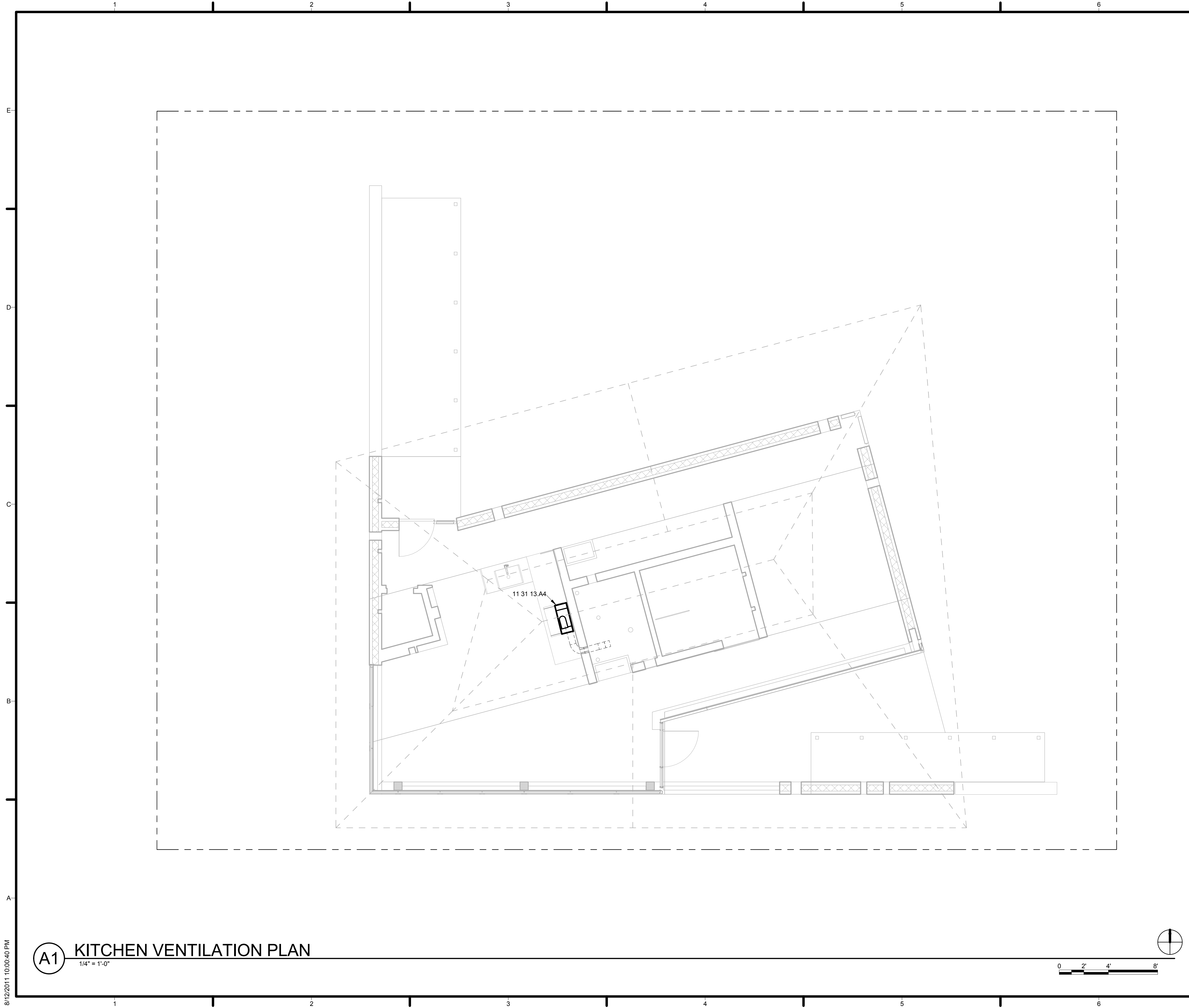
**SHEET TITLE**  
 HYDRONIC FLOORING

**M-104**

**(A1) HYDRONIC PLAN**  
 1/4" = 1'-0"

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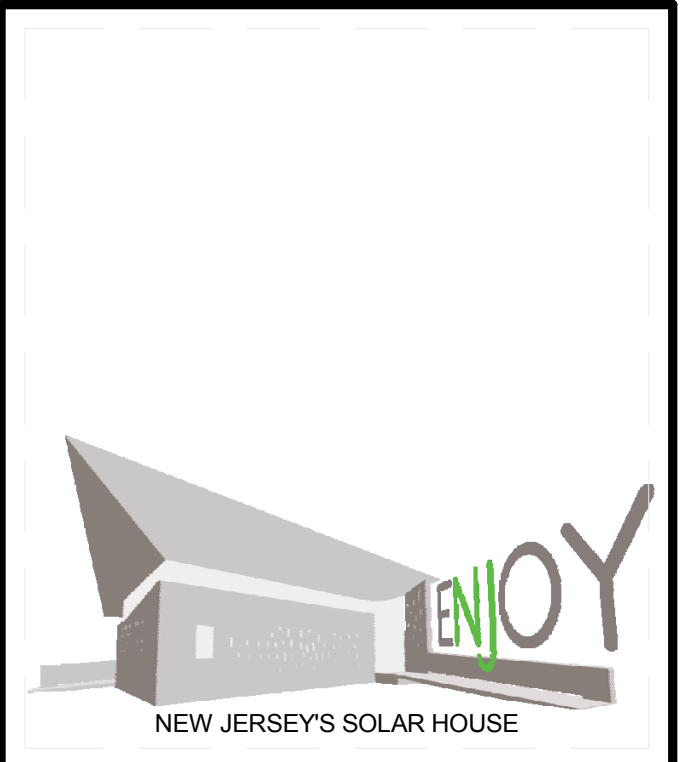


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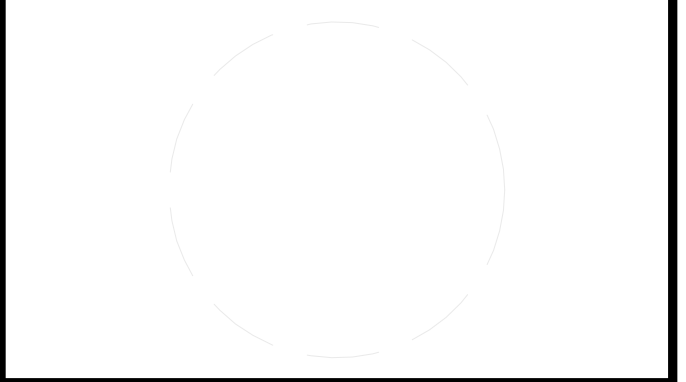
11 31 13.A4 AIR KING EXHAUST HOOD

SHEET KEYNOTES



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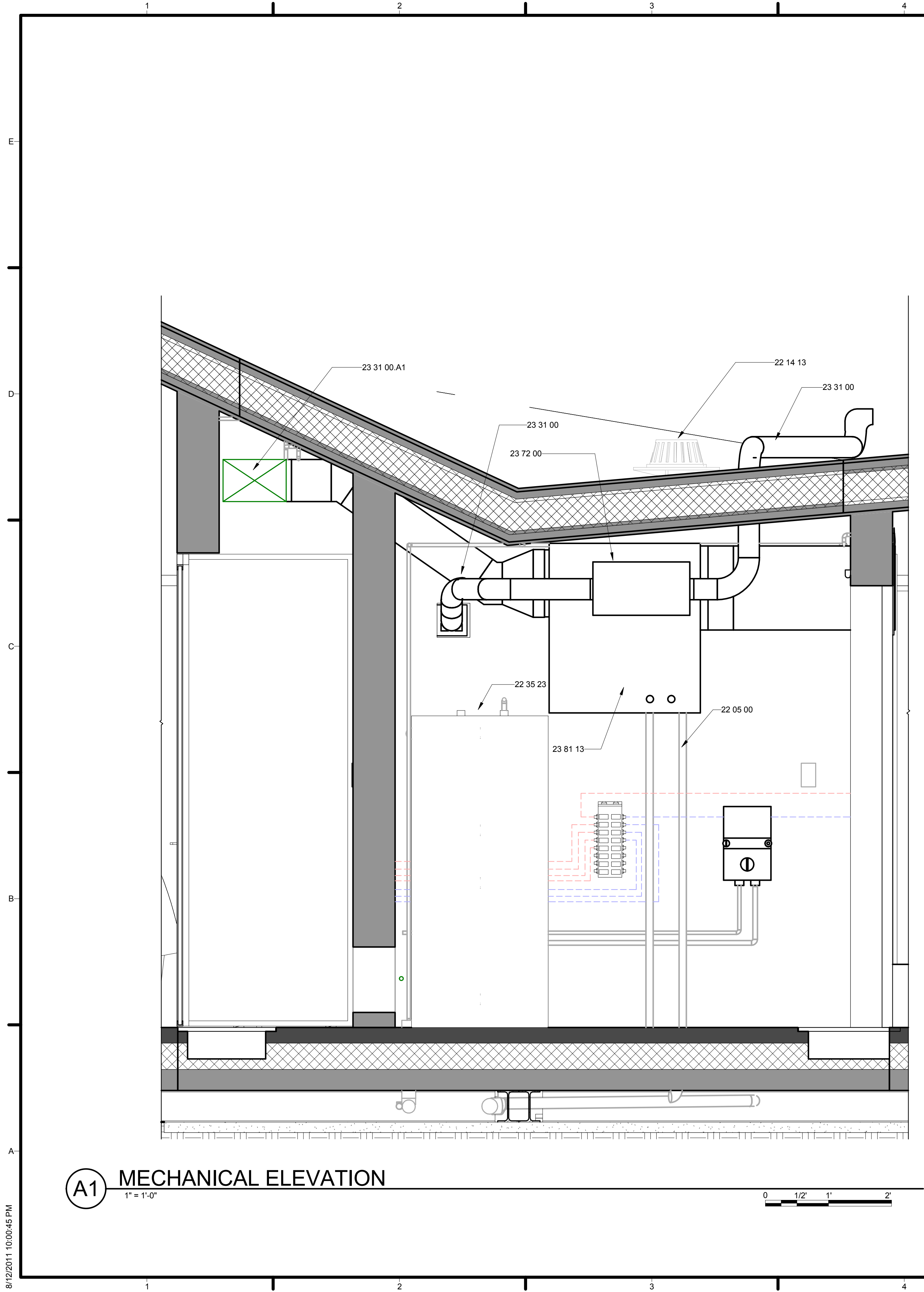
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SHEET TITLE  
 KITCHEN VENTILATION PLAN

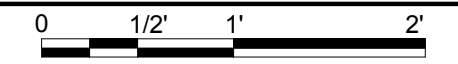
M-105

**A1** KITCHEN VENTILATION PLAN  
 1/4" = 1'-0"

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**(A1) MECHANICAL ELEVATION**  
1" = 1'-0"

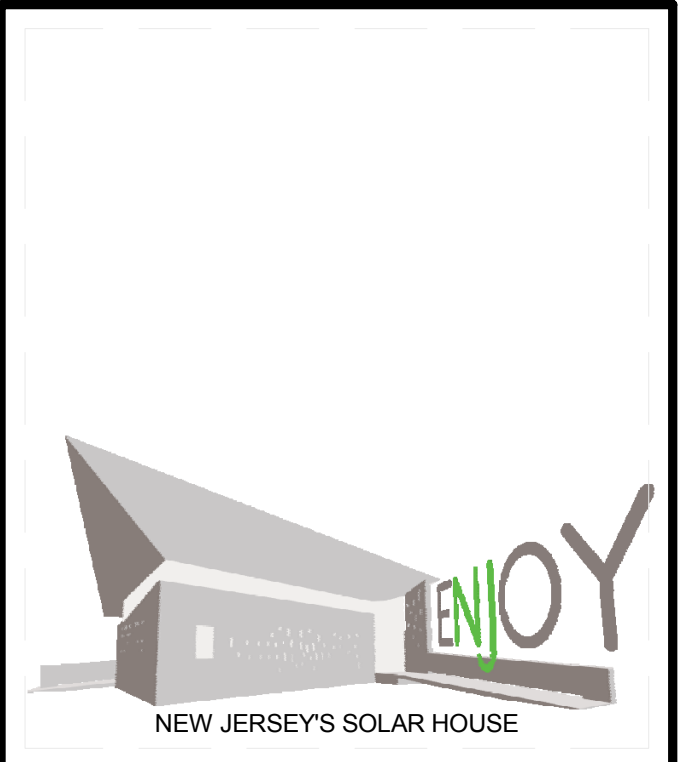


**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

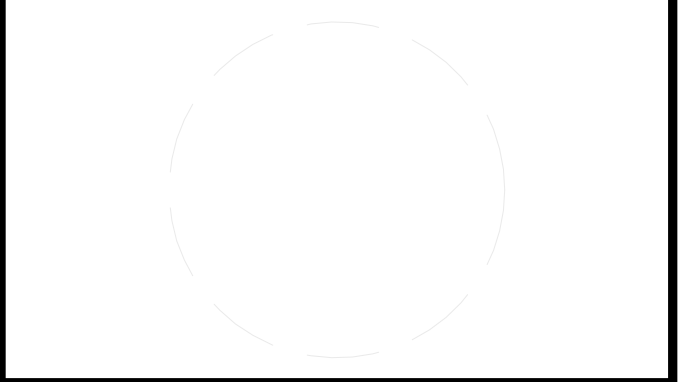
22 05 00	COMMON WORK RESULTS FOR PLUMBING
22 14 13	FACILITY STORM DRAINAGE PIPING
22 35 23	BRADFORD WHITE 70 GALLON DUAL HEAT EXCHANGER
23 31 00	HVAC DUCTS AND CASINGS
23 31 00.A1	METAL DUCTS
23 72 00	HEAT RECOVERY VENTILATOR FANTECH SH704
23 81 13	PACKAGED IEC AIR HANDLER

**SHEET KEYNOTES**



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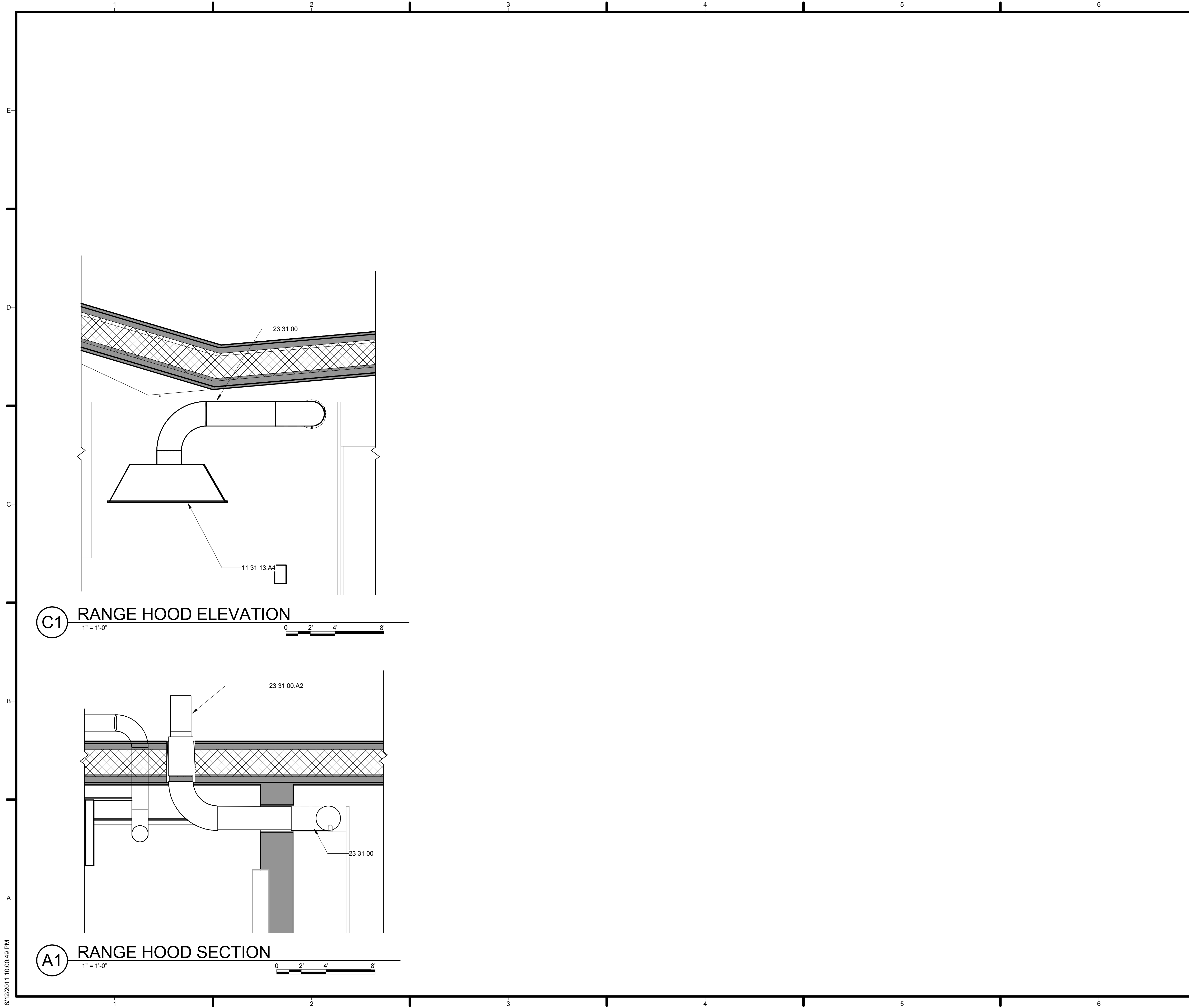
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SHEET TITLE  
**MECHANICAL ELEVATION**

**M-201**

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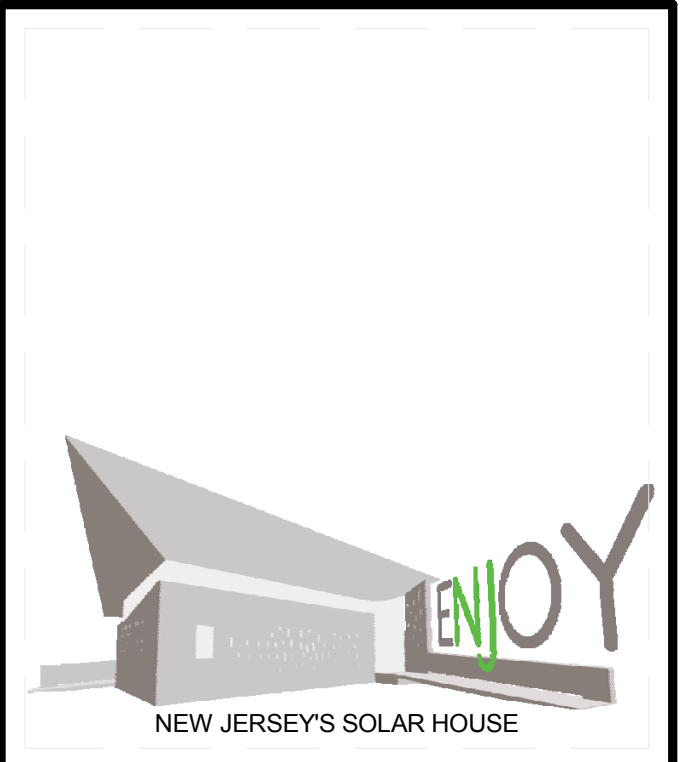


GENERAL SHEET NOTES

REFERENCE KEYNOTES

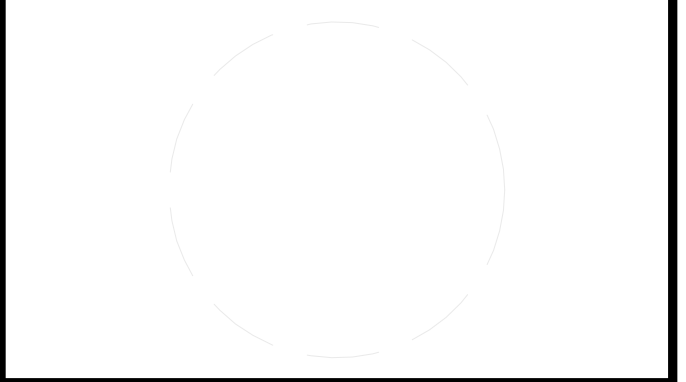
11 31 13.A4	AIR KING EXHAUST HOOD
23 31 00	HVAC DUCTS AND CASINGS
23 31 00.A2	EXHAUST HOOD

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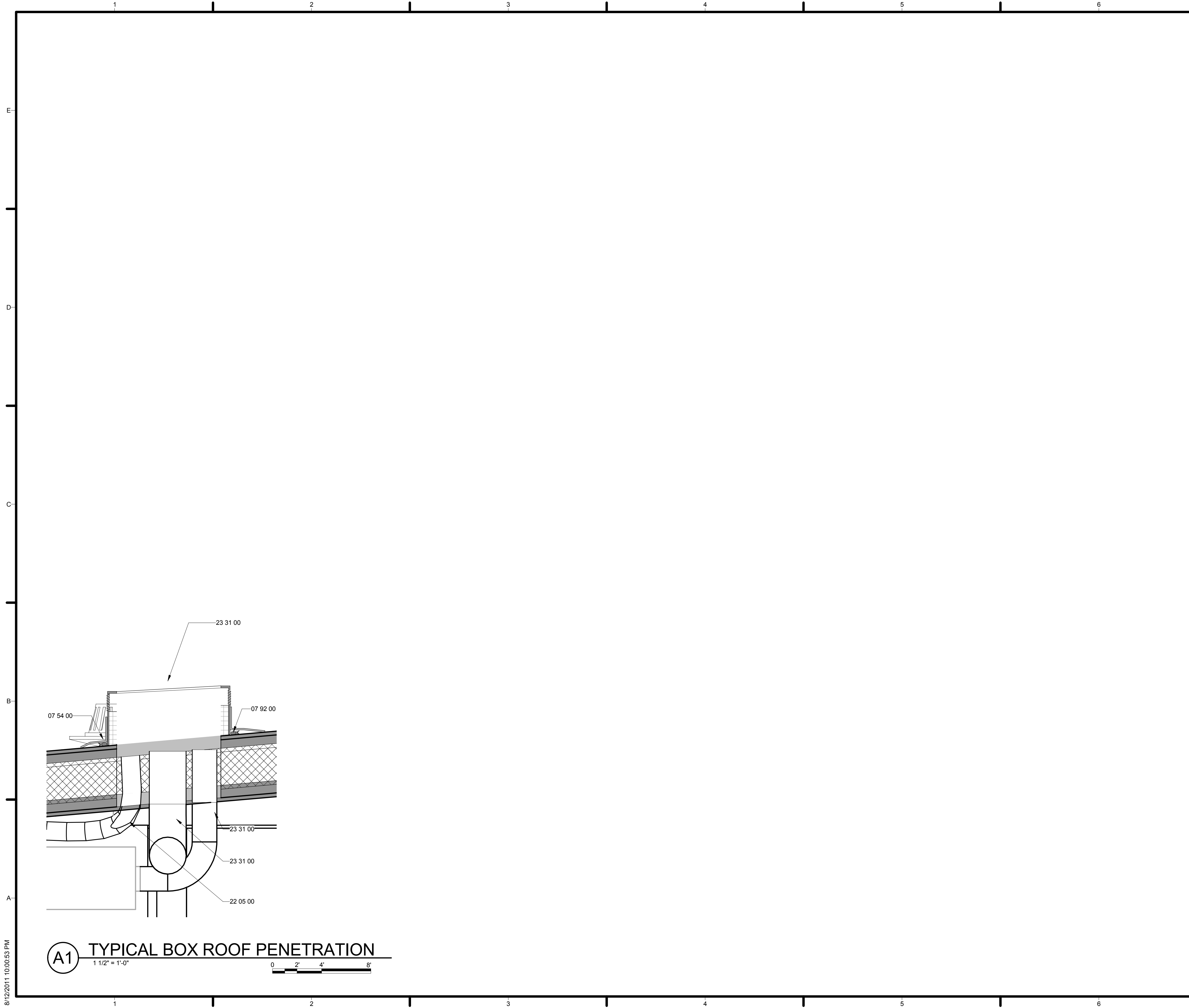
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**MECHANICAL SECTIONS**

**M-202**

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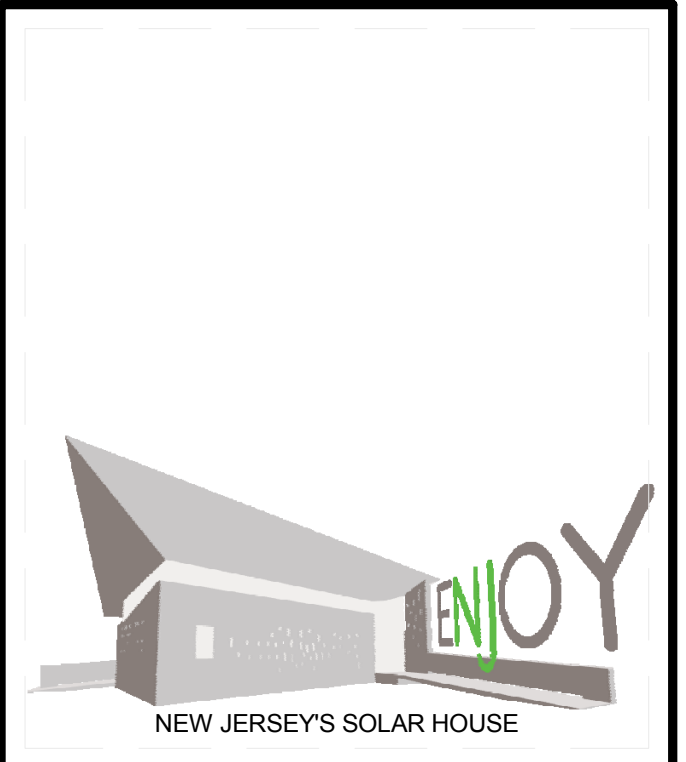
**(A1) TYPICAL BOX ROOF PENETRATION**  
 1 1/2" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

07 54 00	THERMOPLASTIC MEMBRANE ROOFING
07 92 00	SIKA-FLEX POLYURETHANE JOINT SEALANTS
22 05 00	COMMON WORK RESULTS FOR PLUMBING
23 31 00	HVAC DUCTS AND CASINGS

**SHEET KEYNOTES**



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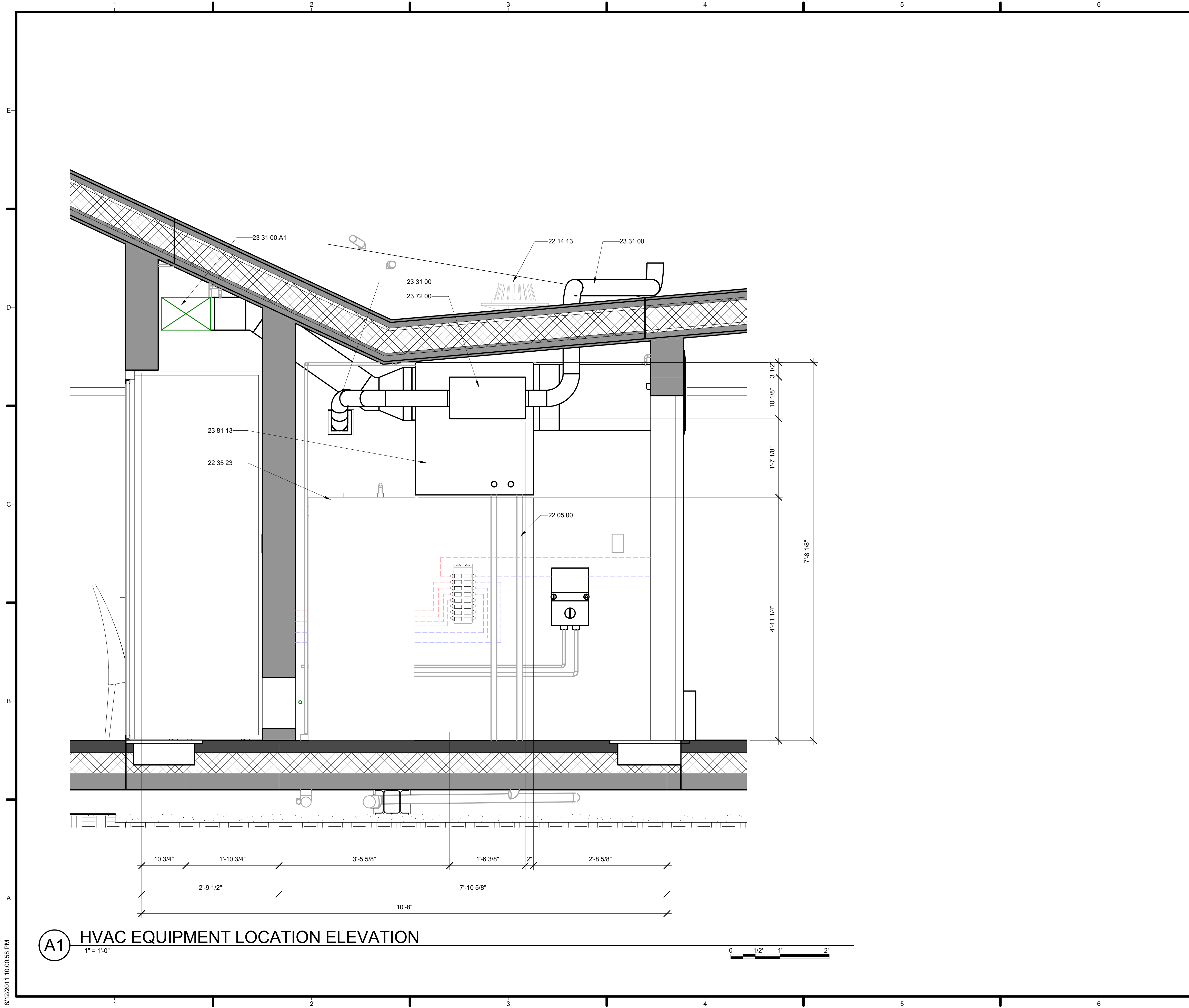
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**MECHANICAL SECTIONS**

**M-203**

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GENERAL SHEET NOTES

REFERENCE KEYNOTES

22 05 00	COMMON WORK RESULTS FOR PLUMBING
22 14 13	FACILITY STORM DRAINAGE PIPING
22 35 23	BRADFORD WHITE 70 GALLON DUAL HEAT EXCHANGER
23 31 00	HVAC DUCTS AND CASINGS
23 31 00.A1	METAL DUCTS
23 72 00	HEAT RECOVERY VENTILATOR FANTECH SH704
23 81 13	PACKAGED IEC AIR HANDLER

SHEET KEYNOTES

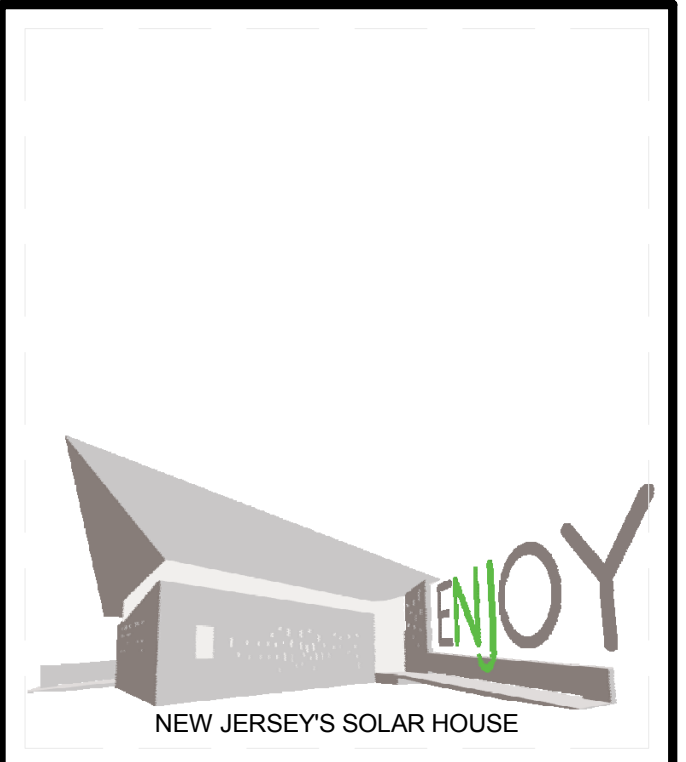
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A	03/22/2011	CONSTRUCTION DOCUMENTS

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SHEET TITLE

MECHANICAL EQUIPMENT LOCATIONS

**M-204**



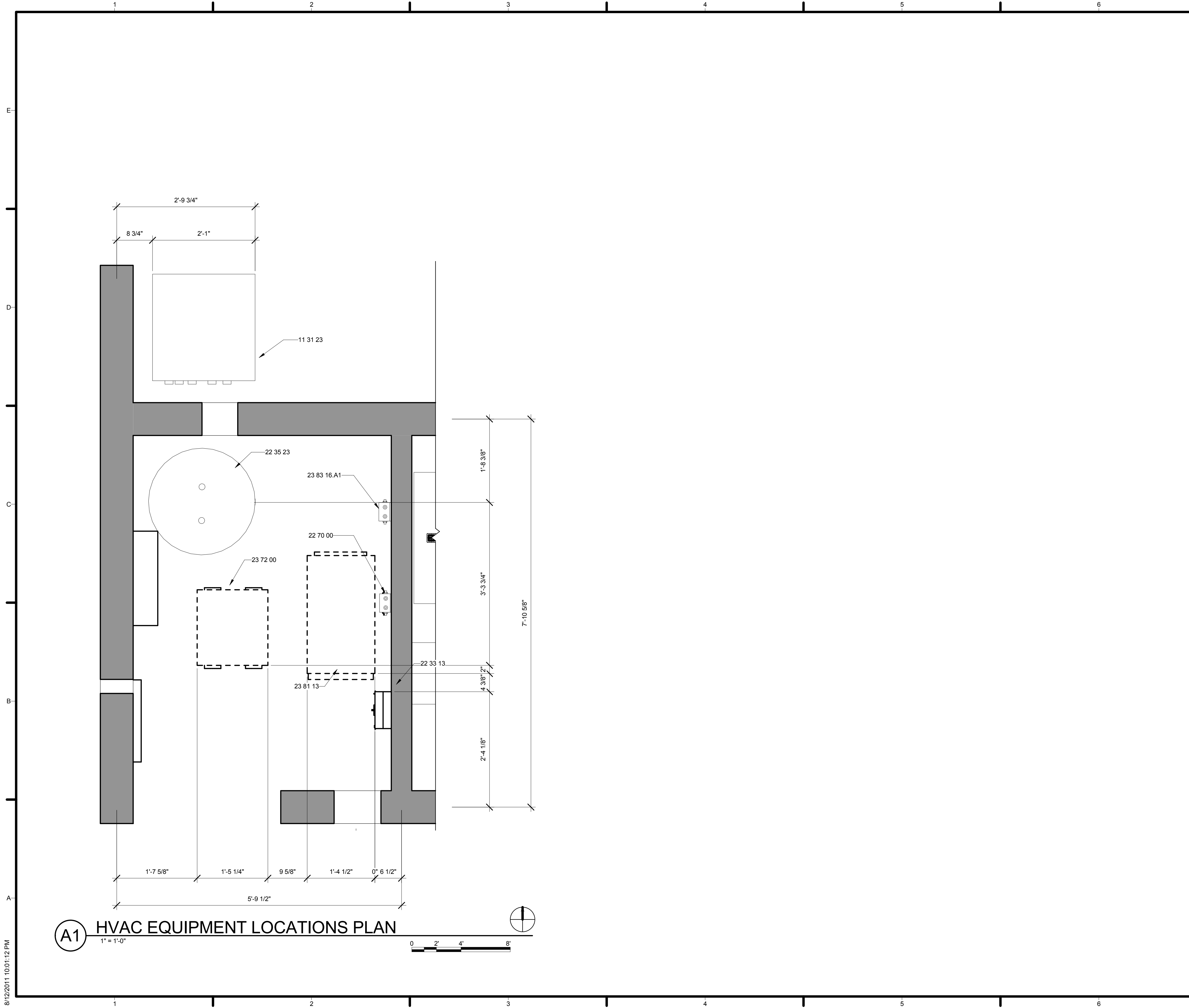
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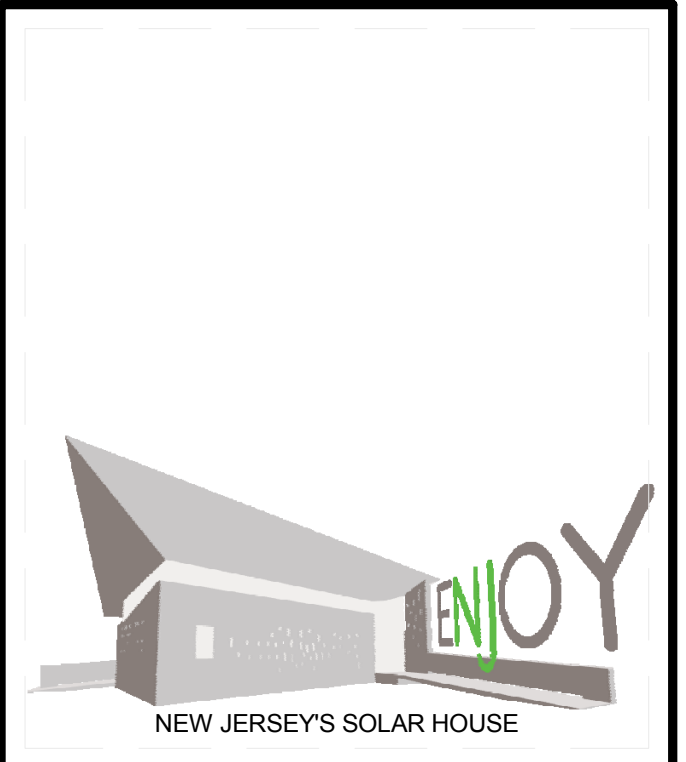
**(A1) HVAC EQUIPMENT LOCATIONS PLAN**  
1" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

11 31 23	RESIDENTIAL LAUNDRY APPLIANCES
22 33 13	STIEBEL ELTRON TANKLESS ELECTRIC WATER HEATER
22 35 23	BRADFORD WHITE 70 GALLON DUAL HEAT EXCHANGER
22 70 00	VIEGA MANABLOC DOMESTIC PLUMBING SUPPLY
23 72 00	HEAT RECOVERY VENTILATOR FANTECH SH704
23 81 13	PACKAGED IEC AIR HANDLER
23 83 16.A1	UPONOR EP MANIFOLD FOR HYDRONIC FLOORING

**SHEET KEYNOTES**



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**SHEET TITLE**  
 MECHANICAL EQUIPMENT LOCATIONS

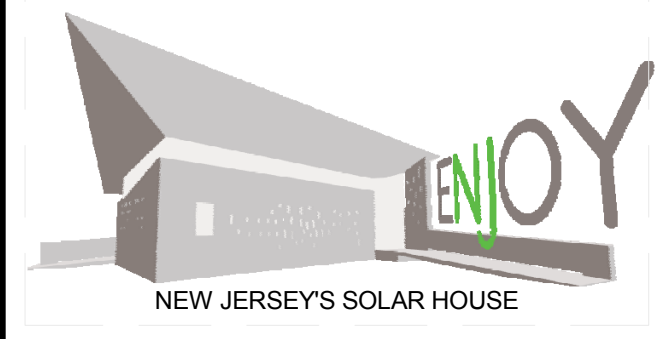
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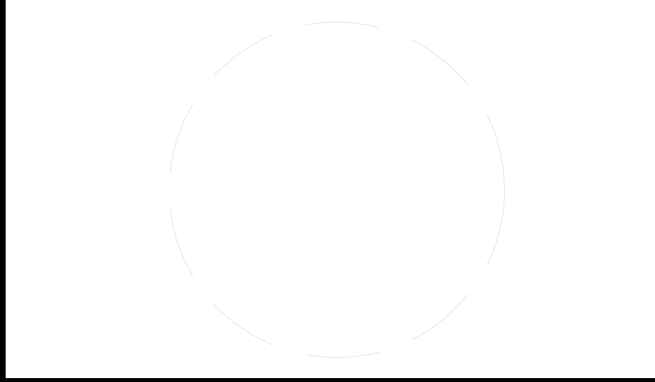
DUCT SCHEDULE						
KEYNOTE	TYPE	SIZE	TYPE COMMENT S	LENGTH	SYSTEM TYPE	COUNT
23 31 00						
23 31 00	TEES	4"ø		2 7/8"	Undefined	1
23 31 00	TEES	6"ø		3 3/8"	Return Air	1
23 31 00	TEES	4"ø		4 1/2"	Exhaust Air	1
23 31 00	TEES	4"ø		4 1/2"	Return Air	1
23 31 00	TEES	4"ø		7 3/4"	Return Air	1
23 31 00	TEES	6"ø		10 7/8"	Return Air	1
23 31 00	TEES	4"ø		1'-0 7/8"	Supply Air	1
23 31 00	TEES	4"ø		1'-1 7/8"	Supply Air	1
23 31 00	TEES	4"ø		1'-3"	Exhaust Air	1
23 31 00	TEES	4"ø		1'-3 1/4"	Return Air	1
23 31 00	TEES	6"ø		1'-4 7/8"	Return Air	1
23 31 00	TEES	4"ø		1'-5 1/2"	Undefined	1
23 31 00	TEES	4"ø		1'-5 5/8"	Return Air	1
23 31 00	TEES	6"ø		1'-5 7/8"	Return Air	1
23 31 00	TEES	4"ø		3'-9"	Supply Air	1
23 31 00	TEES	4"ø		11'-0 1/8"	Exhaust Air	1
23 31 00.A1						
23 31 00.A1	MITERED ELBOWS/TEES	13"x13"		2 1/8"	Supply Air	1
23 31 00.A1	MITERED ELBOWS/TEES	16"x8"		7 5/8"	Supply Air	1
23 31 00.A1	MITERED ELBOWS/TEES	8"x4"		8"	Supply Air	1
23 31 00.A1	MITERED ELBOWS/TEES	8"x4"		1'-9 3/8"	Supply Air	1
23 31 00.A1	MITERED ELBOWS/TEES	12"x8"		1'-10 1/4"	Supply Air	1
23 31 00.A1	MITERED ELBOWS/TEES	16"x8"		2'-5 5/8"	Supply Air	1
23 31 00.A1	MITERED ELBOWS/TEES	20"x16"		2'-6 3/4"	Return Air	1
23 31 00.A1	MITERED ELBOWS/TEES	12"x8"		8'-2 1/2"	Supply Air	1

MECHANICAL EQUIPMENT SCHEDULE			
KEYNOTE	NAME	SYSTEM TYPE	TYPE
11 31 13.A2		Supply Air	COOKTOP_FRIGIDAIRE 30inch
11 31 13.A4		Family1 3	
22 11 23	Inline Pump - Circulator	Hydronic Supply,Power	65 GPM - 2.5 Foot Head
22 33 13	Instant Water Heater - Tankless	Domestic Cold Water,Domestic Hot Water,Power	0.6 Gallon
23 72 00		Exhaust Air,Supply Air,Return Air	FANTECH_HRV
23 81 13	Air Handler	Return Air,Supply Air,Other	HXY(2-Pipe EHeat)
23 81 43	Reverse Cycle Chiller	Other,Power	3 Tons
23 83 16			HYDRONIC FLOORING



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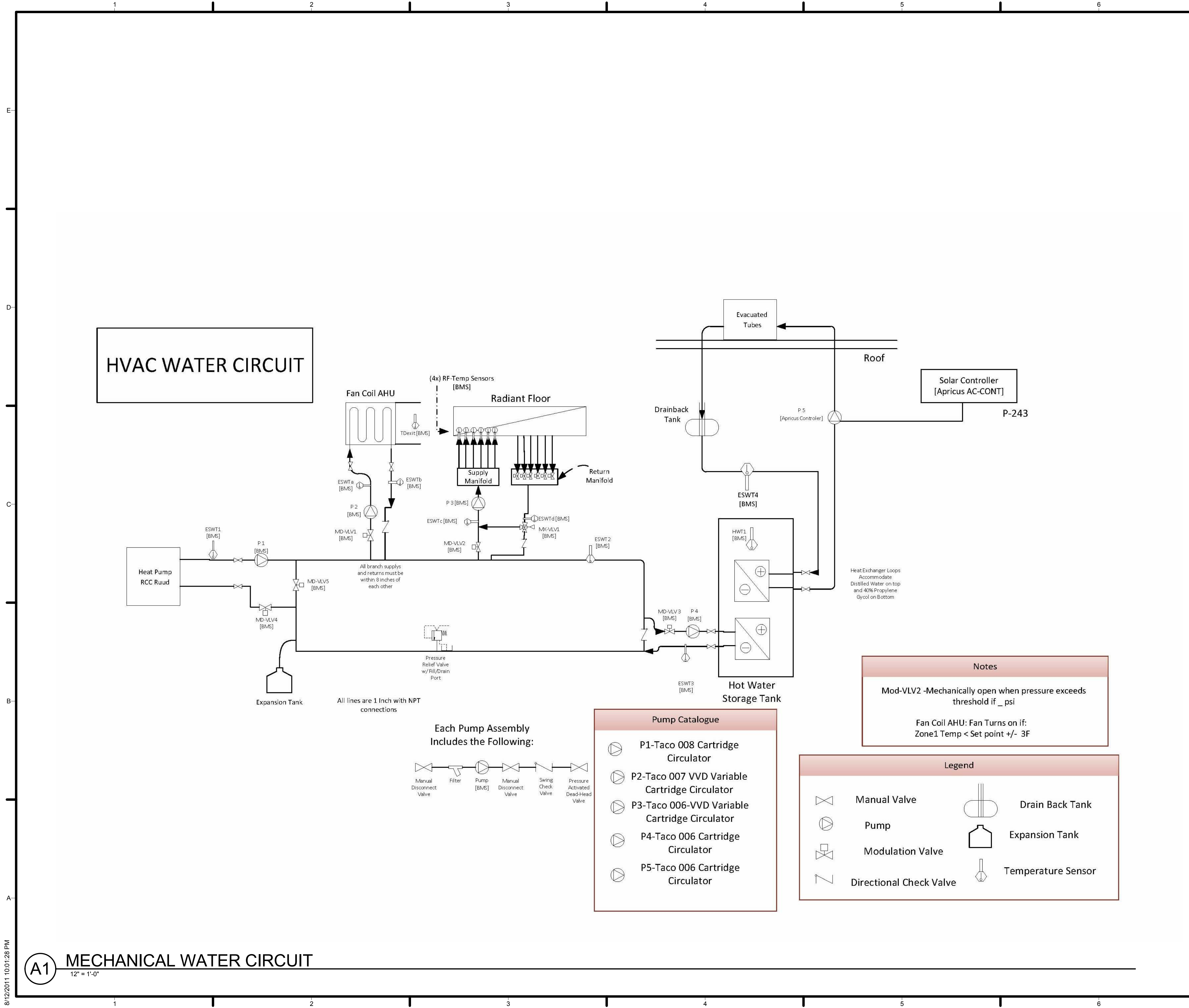
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SHEET TITLE  
**MECHANICAL SCHEDULES**

**M-601**







**HVAC WATER CIRCUIT**

(4x) RF-Temp Sensors [BMS]

Fan Coil AHU

Radiant Floor

Supply Manifold

Return Manifold

Evacuated Tubes

Roof

Solar Controller [Apricus AC-CONT]

P-243

Drainback Tank

P-5 [Apricus Controller]

ESWT4 [BMS]

ESWT3 [BMS]

ESWT2 [BMS]

ESWT1 [BMS]

ESWTc [BMS]

ESWTb [BMS]

ESWTa [BMS]

MD-VLV3 [BMS]

MD-VLV2 [BMS]

MD-VLV1 [BMS]

MD-VLV5 [BMS]

MD-VLV4 [BMS]

P-4 [BMS]

P-3 [BMS]

P-2 [BMS]

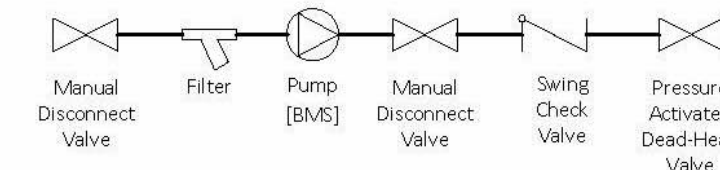
P-1 [BMS]

All branch supplies and returns must be within 8 inches of each other

Expansion Tank

All lines are 1 Inch with NPT connections

Each Pump Assembly Includes the Following:



**Pump Catalogue**

- ⊗ P1-Taco 008 Cartridge Circulator
- ⊗ P2-Taco 007 VVD Variable Cartridge Circulator
- ⊗ P3-Taco 006-VVD Variable Cartridge Circulator
- ⊗ P4-Taco 006 Cartridge Circulator
- ⊗ P5-Taco 006 Cartridge Circulator

**Notes**

Mod-VLV2 -Mechanically open when pressure exceeds threshold if \_ psi  
 Fan Coil AHU: Fan Turns on if: Zone1 Temp < Set point +/- 3F

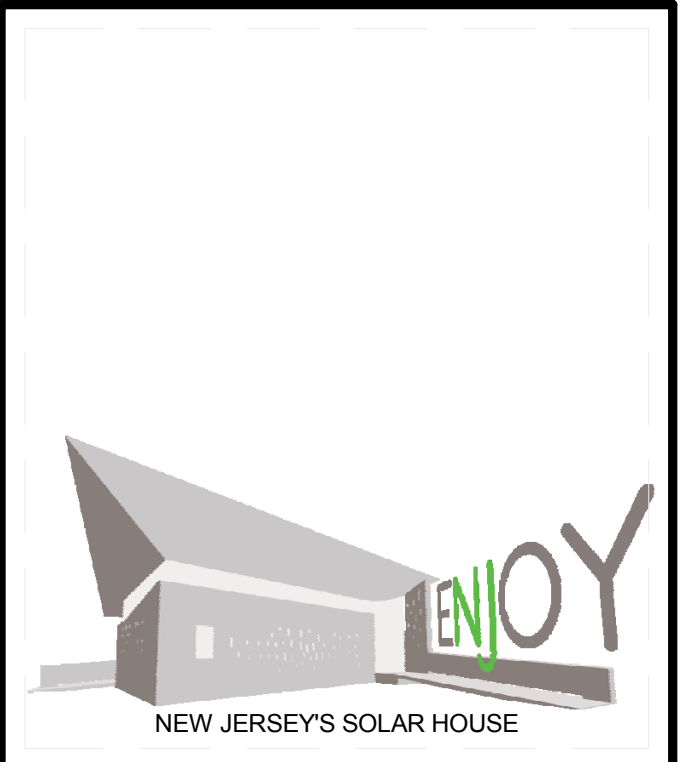
**Legend**

- ⊗ Manual Valve
- ⊗ Pump
- ⊗ Modulation Valve
- ⊗ Directional Check Valve
- ⊗ Drain Back Tank
- ⊗ Expansion Tank
- ⊗ Temperature Sensor

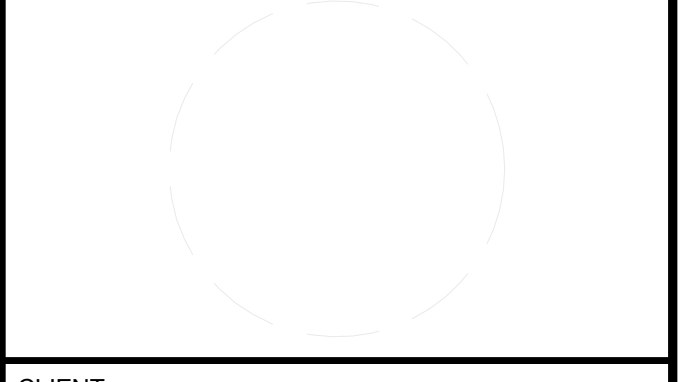
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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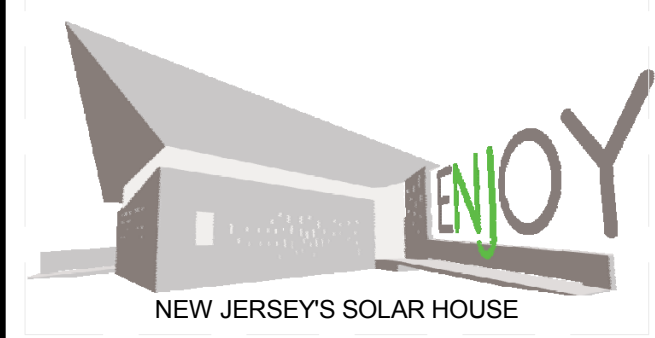
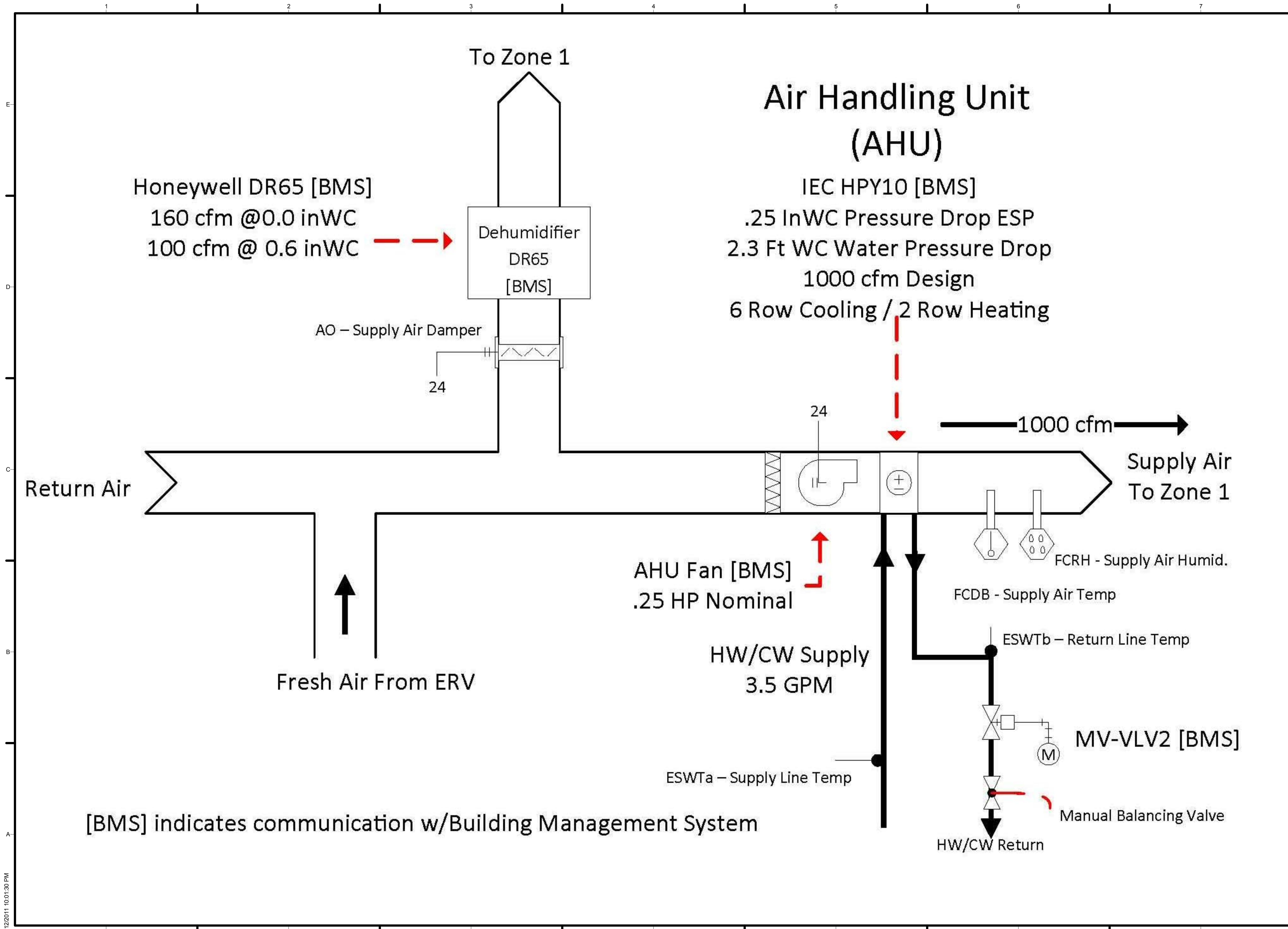
**SHEET TITLE**

**MECHANICAL WATER CIRCUIT**

**M-603**

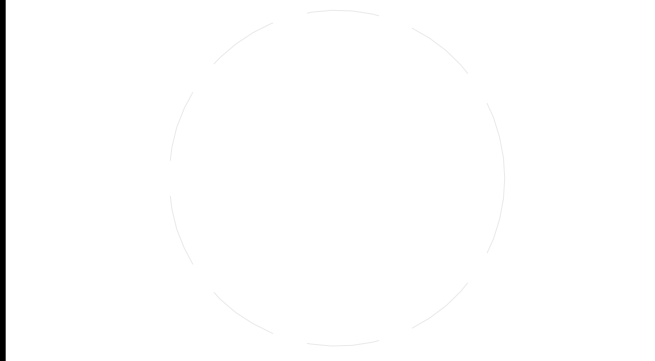
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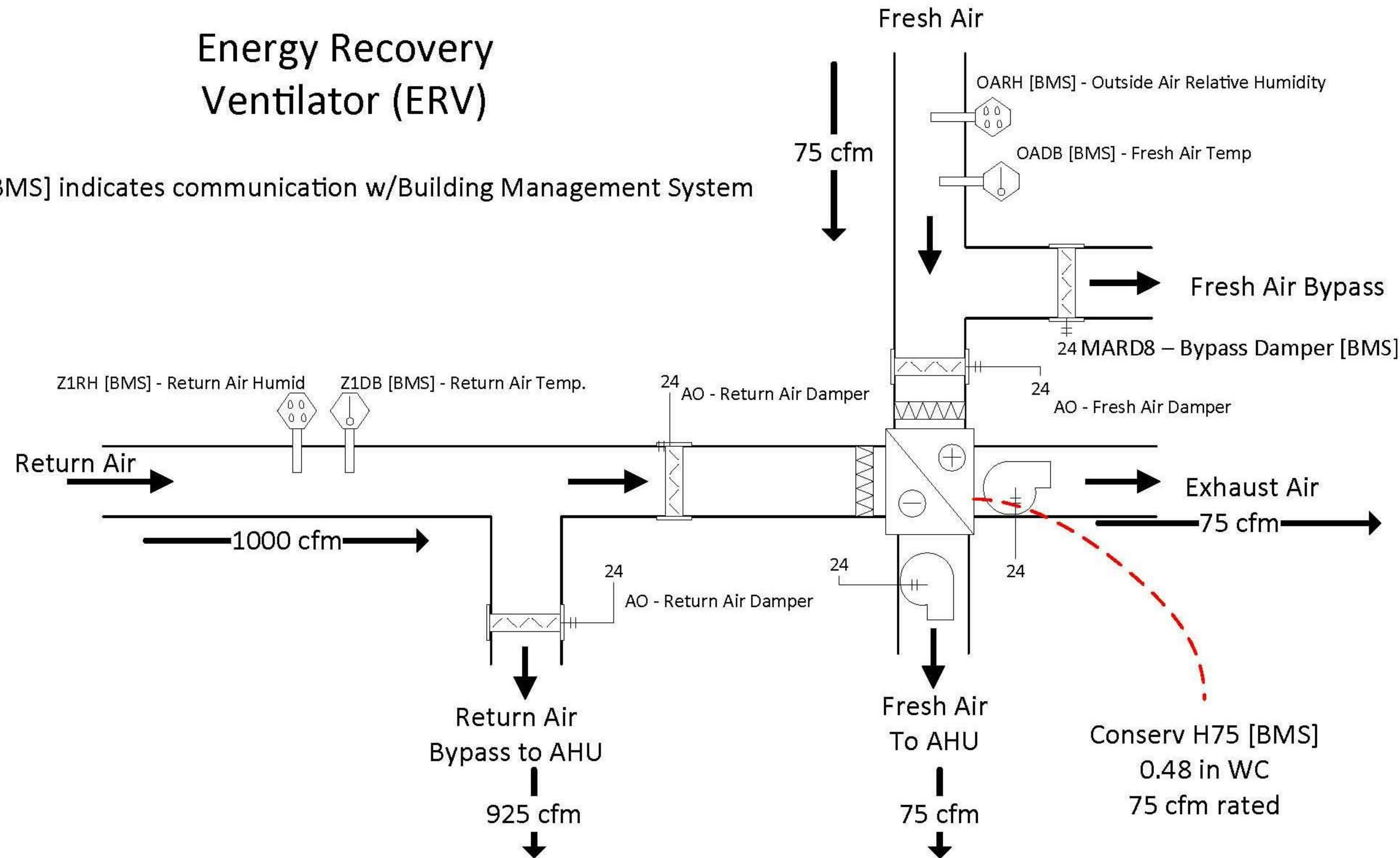
SHEET TITLE  
**AIR HANDLER UNIT DIAGRAM**

**M-605**

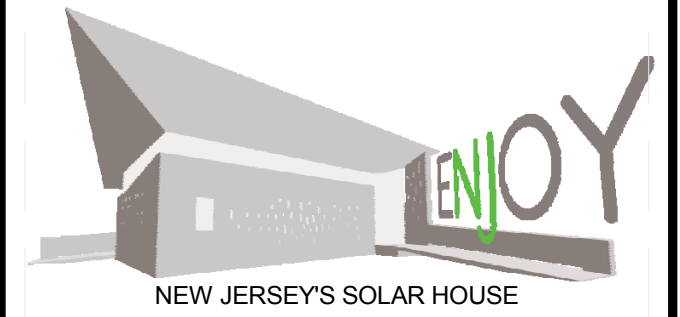


# Energy Recovery Ventilator (ERV)

[BMS] indicates communication w/Building Management System



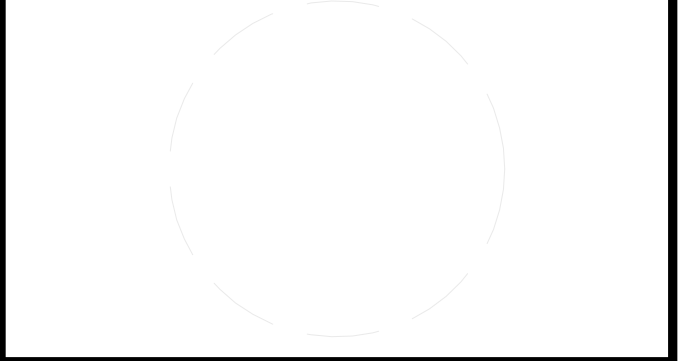
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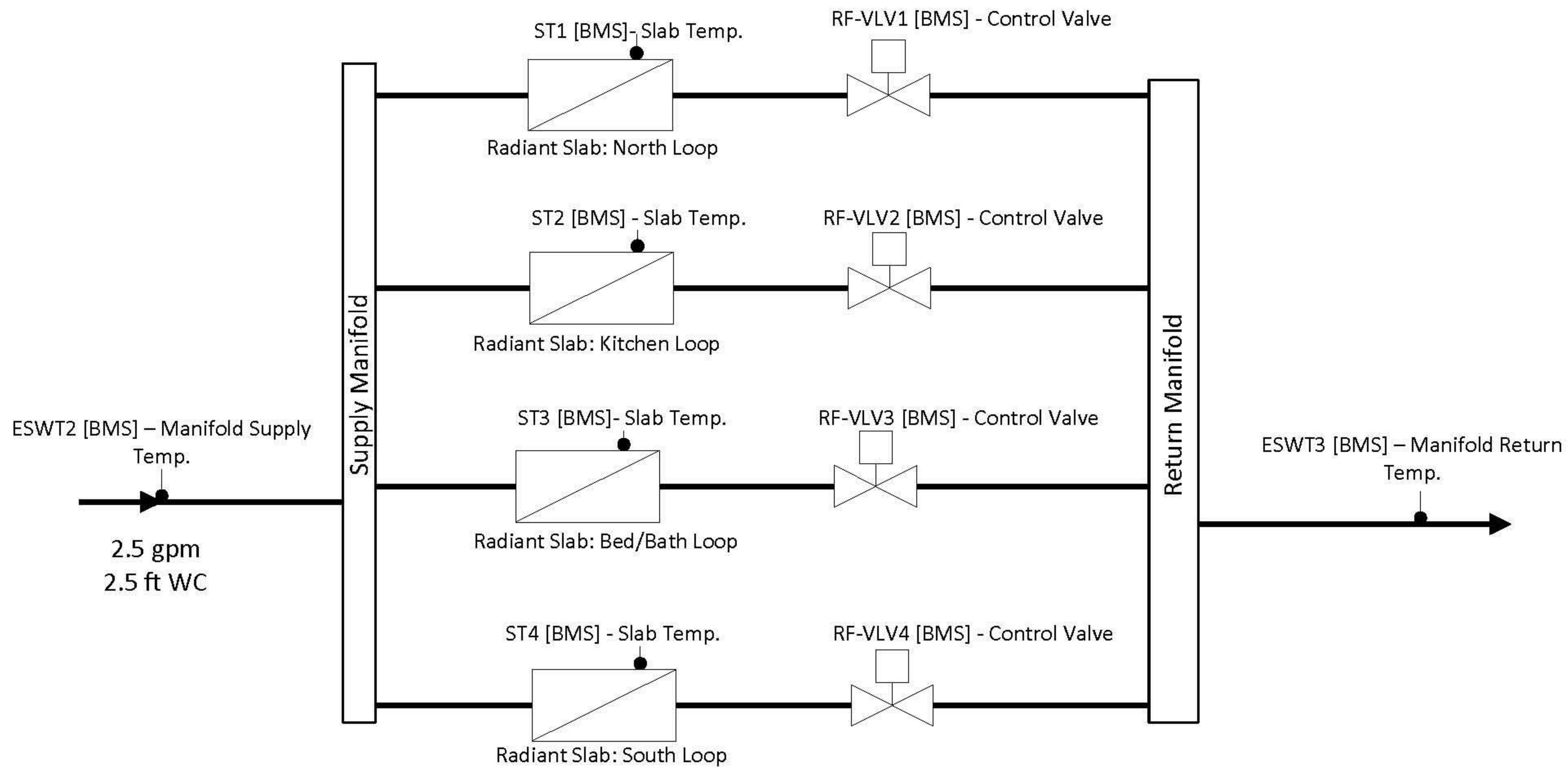
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SHEET TITLE  
**HEAT RECOVERY VENTILATOR**

**M-606**



# Radiant Floor

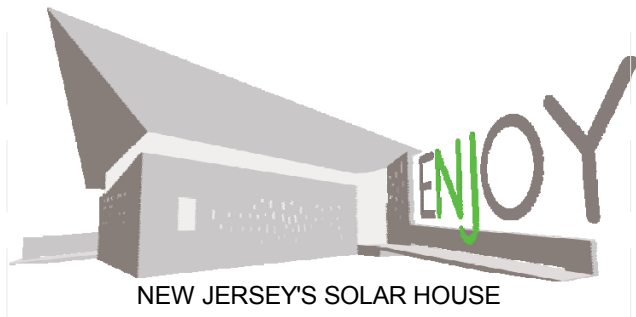


All slab sensors placed at loop entrance to conditioned space to detect coldest possible slab surface temperatures for floor condensation protection.

[BMS] indicates communication w/Building Management System

5/8 inch diameter PEX for Loop Runs  
 3/4 inch diameter PEX for Manifold Supply and Return

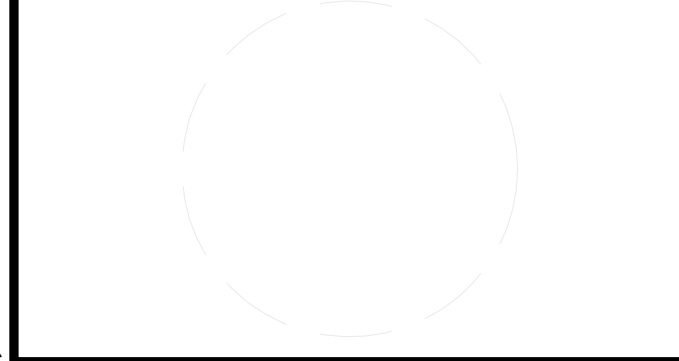
## GENERAL SHEET NOTES



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SHEET TITLE  
 HYDRONIC FLOORING  
 DIAGRAM

M-607

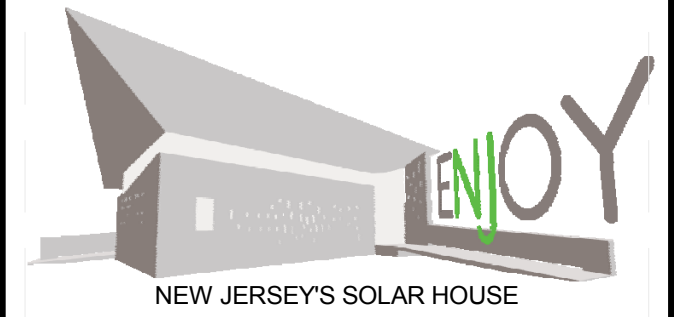


ELECTRICAL SYMBOL LEGEND	
MARK	DESCRIPTION
	RECEPTACLE 120V
	RECEPTACLE (GFI) 120V
	RECEPTACLE 240V
	SINGLE SWITCH
	THREE WAY SWITCH
	QUADRAPLEX RECEPTACLE 240V
	MAIN LOAD CENTER
	ACCOLADE LIGHTING FIXTURE
	SMOKE DETECTOR

**ELECTRICAL**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE RULES AND REGULATIONS.
2. CONTRACTOR SHALL MAKE ARRANGEMENT WITH PUBLIC SERVICE GAS & ELECTRIC COMPANY TO ESTABLISH ELECTRIC SERVICE, ARRANGEMENT FOR ALL REQUIRED INSPECTIONS AND FURNISH ALL LABOR AND MATERIALS REQUIRED FOR ESTABLISHING ELECTRIC SERVICE.
3. SERVICE SHALL BE RATED AT 150 AMP., 110/220 VOLT, 1-PHASE 3W AND SHALL INCLUDE A SERVICE PANEL NEMA 1 ENCLOSURE, WITH 150 AMPS MCB, AND 42 POLES. BRANCH BREAKERS AS REQUIRED. ALL CIRCUITS TO BE LABELED AT PANEL-BOX DOOR.
4. ELECTRIC CONTRACTOR SHALL FURNISH OUTLETS: GENERAL CONVENIENCE OUTLETS IN BASEMENT, DUPLEX RECEPTACLES ON ALL FLOORS, AND AN EXTERIOR OUTLET. MAXIMUM OF SIX (6) OUTLETS PER CIRCUIT.
5. GENERAL LIGHTING SHALL BE WIRED TO PANEL 1600 WATTS PER CIRCUIT MAXIMUM.
6. ELECTRIC EQUIPMENT SHALL BE WIRED ON SEPARATE CIRCUIT AS REQUIRED BY CODE. CONTRACTOR TO PROVIDE SUITABLE WIRING FOR CLOTHES DRYER, REFRIGERATOR, GAS STOVE, HEATING - A/C UNITS, TOASTER, AND OTHER SIMILAR APPLIANCES.
7. ALL WIRING SHALL BE COPPER TYPE, THW, 600 VOLT. WIRES SHALL BE SIZED IN ACCORDANCE WITH N.E.C. HOWEVER, NO WIRE SHALL BE LESS THAN 14 AWG. SERVICE WIRE MAY BE ALUMINUM TYPE.
8. GUARANTEES: EQUIPMENT, WIRING AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF OCCUPANCY BY HOMEOWNER. ALL WIRING SHALL BE WARRANTED FOR AN ADDITIONAL ONE (1) YEAR FROM FAILURE TO CARRY ITS DESIGNATED LOAD.
9. CONTRACTOR SHALL SUBMIT TO BUILDER FOR APPROVAL SPECIFICATIONS AND/OR SAMPLES OF ALL EQUIPMENT AND MATERIALS TO BE USED ON THIS PROJECT.
10. REFER TO DRAWING SET (X) FOR IN-WALL CONDUIT RUNS.

GENERAL SYMBOL LEGEND	
MARK	DESCRIPTION
	ROOM DESIGNATION
	ELEVATION MARKER
	SECTION
	ELEVATION TAG
	COLUMN GRID TAG
	NORTH ARROW
	GRAPHICAL SCALE



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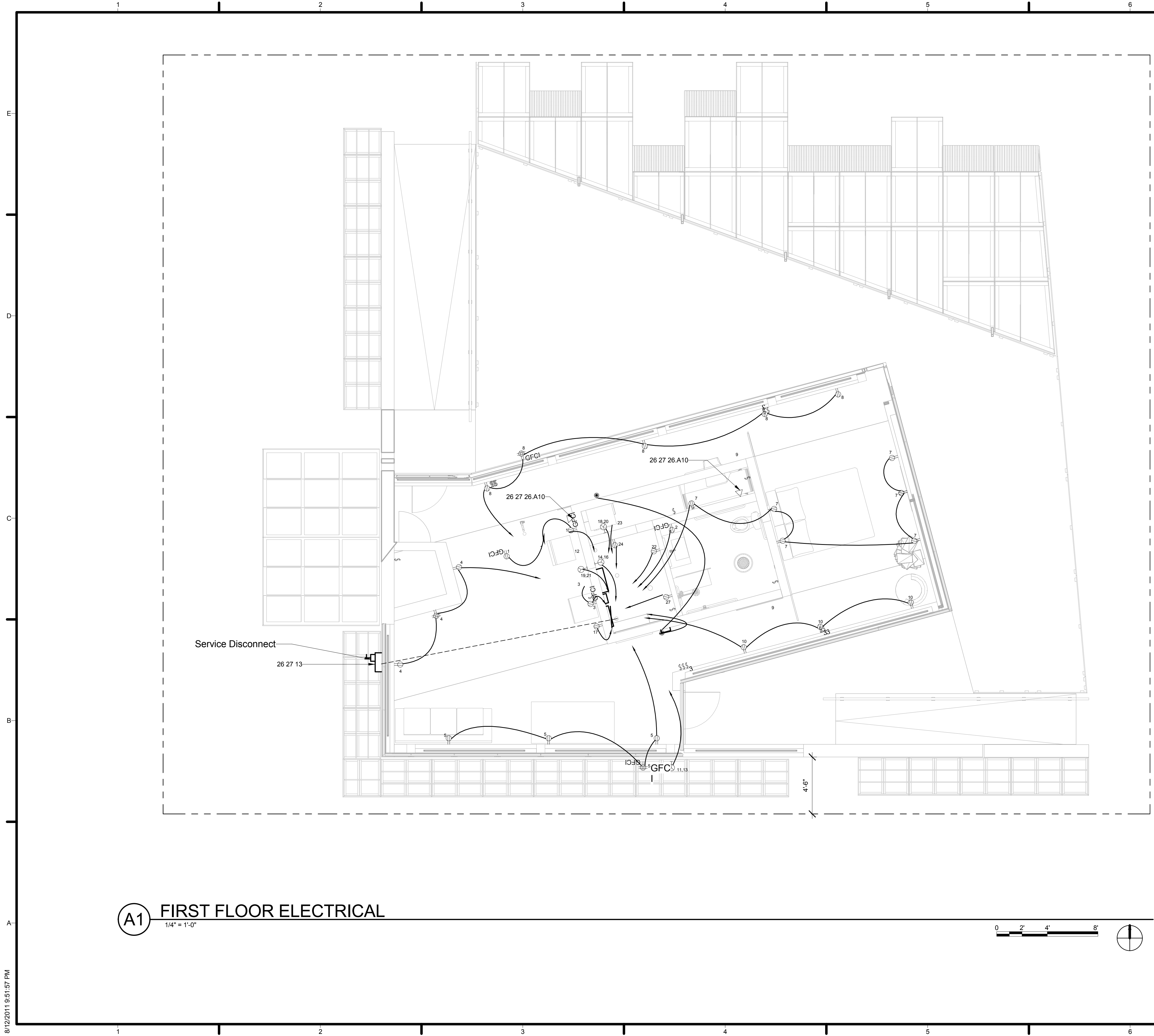


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**ELECTRICAL SYMBOLS AND NOTES**

**E-001**



**(A1) FIRST FLOOR ELECTRICAL**  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

THE GROUNDING IS TO BE LOCATED ON THE WESTERN SIDE OF THE HOUSE AT A DEPTH OF 10 FEET DEEP.

ALL 120V RECEPTACLES ARE 1'-6" ABOVE FINISHED FLOOR EXCEPT FOR KITCHEN RECEPTACLES WHICH ARE LOCATED 4'-0" ABOVE FINISHED FLOOR

ALL OUTDOOR RECEPTACLES SHALL BE WEATHER RESISTANT. NEC 406.8(B)(1).

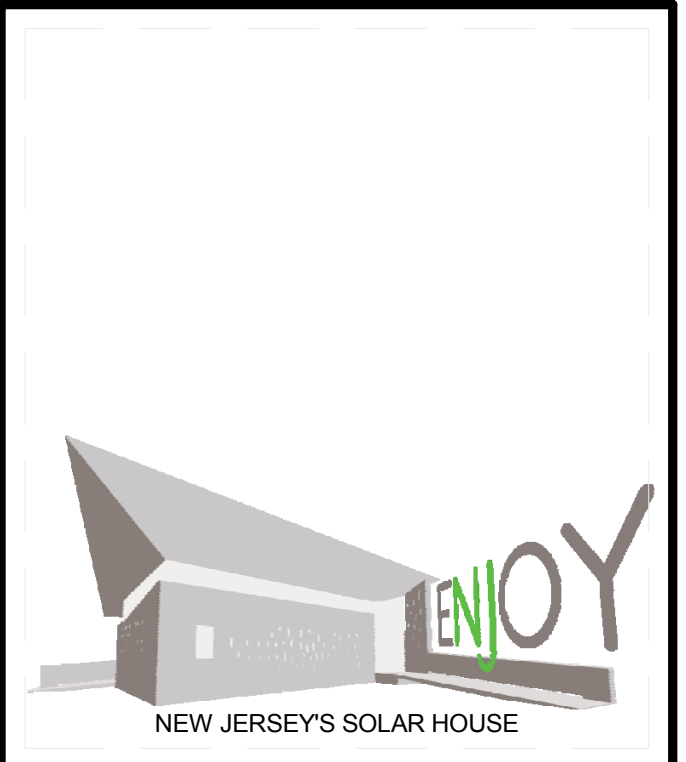
ALL RECEPTACLES SHALL BE TAMPER-RESISTANT. NEC 406.11.

**REFERENCE KEYNOTES**

26 27 13 DOE PROVIDED ELECTRICITY METERING  
26 27 26.A10 LUTRON DATA RECEPTACLE

**ELECTRICAL SYMBOL LEGEND**

MARK	DESCRIPTION
	RECEPTACLE 120V
	RECEPTACLE (GFI) 120V
	RECEPTACLE 240V
	SINGLE SWITCH
	THREE WAY SWITCH
	QUADRUPLEX RECEPTACLE 240V
	MAIN LOAD CENTER
	ACCOLADE LIGHTING FIXTURE
	SMOKE DETECTOR



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**ELECTRICAL DISTRIBUTION PLAN**

**E-101**





**(A1) FIRST FLOOR ELECTRICAL LIGHTING**  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

DEK DOTS ARE WIRED FROM TRANSFORMER(LOCATED IN THE MIDDLE OF DECK)

TRANSFORMER CAN HANDLE UP TO 40 DEK DOTS

LUTRON WIRELESS LIGHT SWITCHES WILL BE USED TO ACTIVATE LIGHTS ON EAST WALL

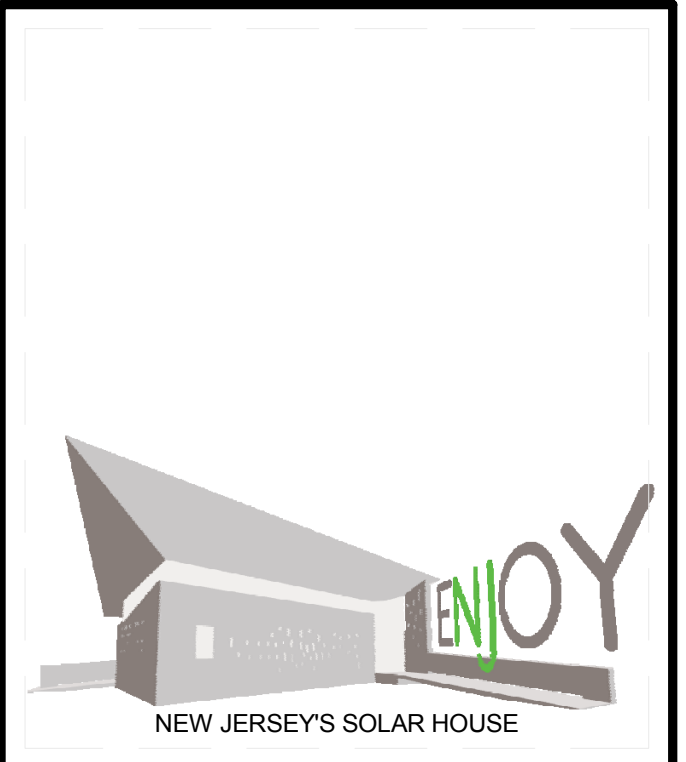
LIGHTS WILL BE EQUIPPED WITH DIMMING BALASTS

**REFERENCE KEYNOTES**

- 26 24 16.A01 EATON 200 AMP PANEL BOX
- 26 27 13 DOE PROVIDED ELECTRICITY METERING
- 26 51 00.C01 ACCOLADE 3 WALL RECESS LIGHT FIXTURE
- 26 51 00.D01 ALURE 2 CLOSET LIGHT FIXTURE
- 26 51 00.E01 ACCOLADE 3 TOP OF WALL RECESSED LIGHT FIXTURE
- 26 51 00.F01 ARRIS 5 TOP OF WALL RECESSED LIGHT FIXTURE
- 26 56 00.A01 ACCOLADE 3 WALL RECESS EXTERIOR LIGHT FIXTURE
- 26 56 00.C01 DEKOR DEK DOT EXTERIOR RECESSED LED LIGHT
- 26 56 00.D01 HINKLEY PIZA EXTERIOR LIGHT
- 26 56 00.D02 DEK DOT TRANSFORMER

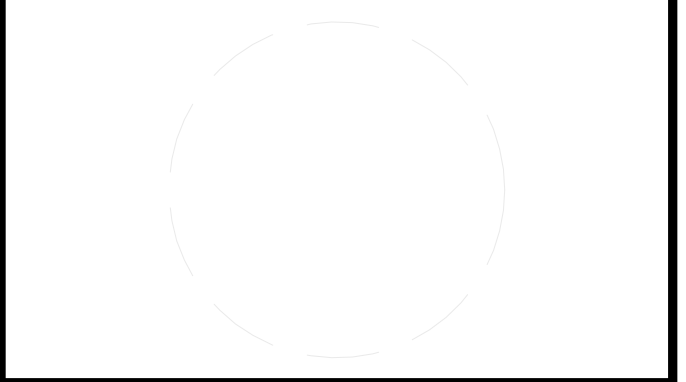
**ELECTRICAL SYMBOL LEGEND**

MARK	DESCRIPTION
	RECEPTACLE 120V
	RECEPTACLE (GFI) 120V
	RECEPTACLE 240V
	SINGLE SWITCH
	THREE WAY SWITCH
	QUADRAPLEX RECEPTACLE 240V
	MAIN LOAD CENTER
	ACCOLADE LIGHTING FIXTURE
	SMOKE DETECTOR



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MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
 DRAWN BY: TEAM NEW JERSEY  
 CHECKED BY: TEAM NEW JERSEY  
 COPYRIGHT: NONE; PROJECT IS PUBLIC DOMAIN

SHEET TITLE

**ELECTRIC DISTRIBUTION TO SWITCHES AND LIGHTS**

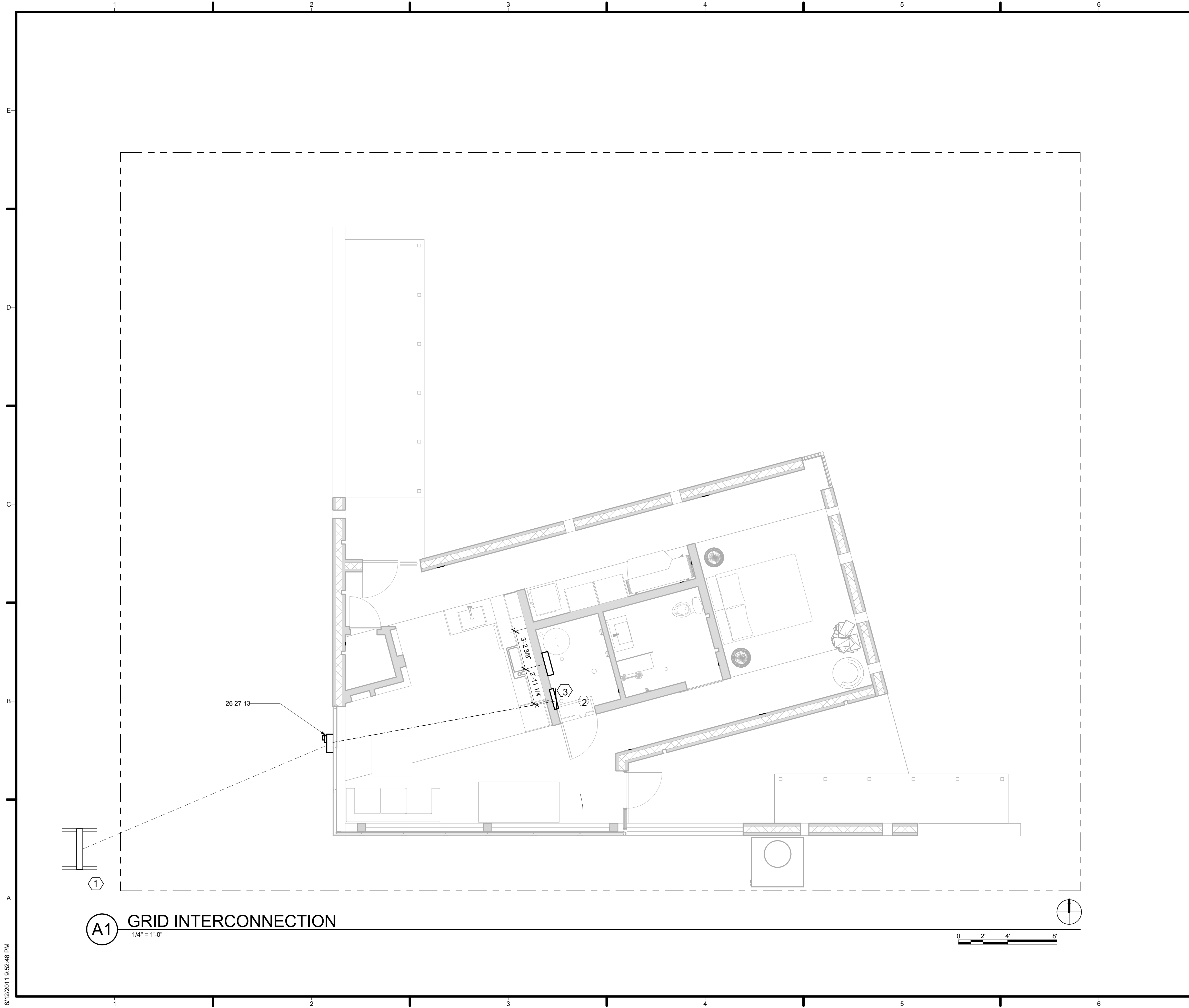
**E-102**

8/12/2011 9:52:12 PM









**GENERAL SHEET NOTES**

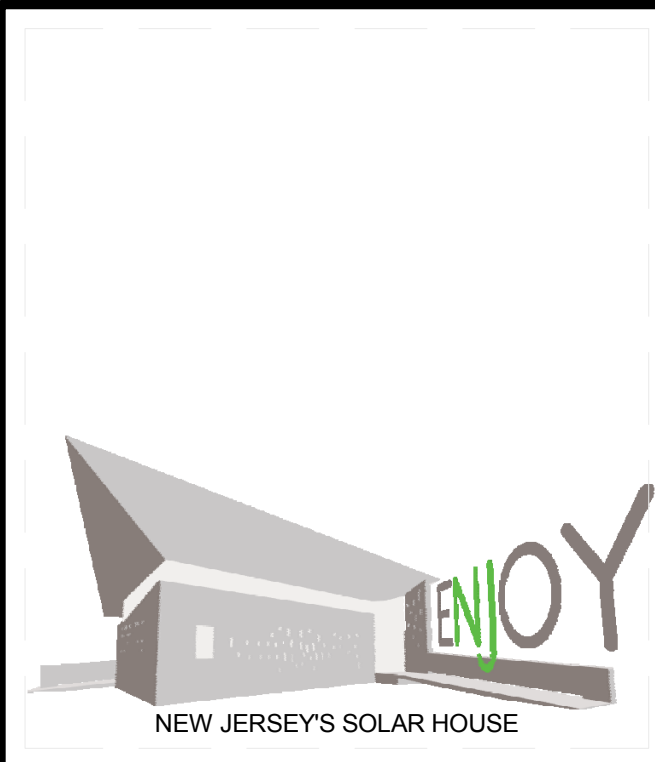
THE METER HOUSING WILL BE PLACED AT THE EDGE OF THE LOT AS SPECIFIED.

**REFERENCE KEYNOTES**

26 27 13 DOE PROVIDED ELECTRICITY METERING

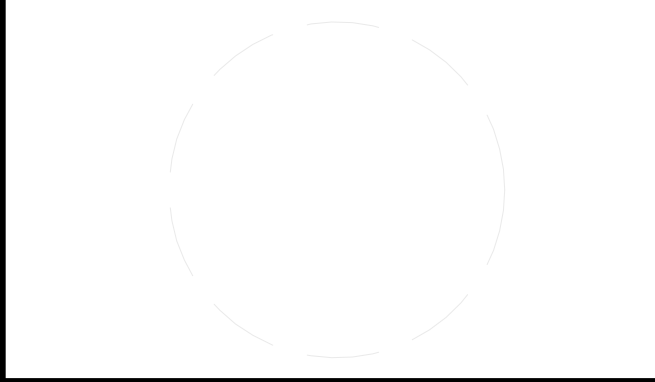
**SHEET KEYNOTES**

- 1. ORGANIZER SUPPLIED METER HOUSING
- 2. ELECTRICAL DISTRIBUTION PANEL
- 3. GROUND ROD IS LOCATED DIRECTLY BELOW ELECTRICAL DISTRIBUTION PANEL.



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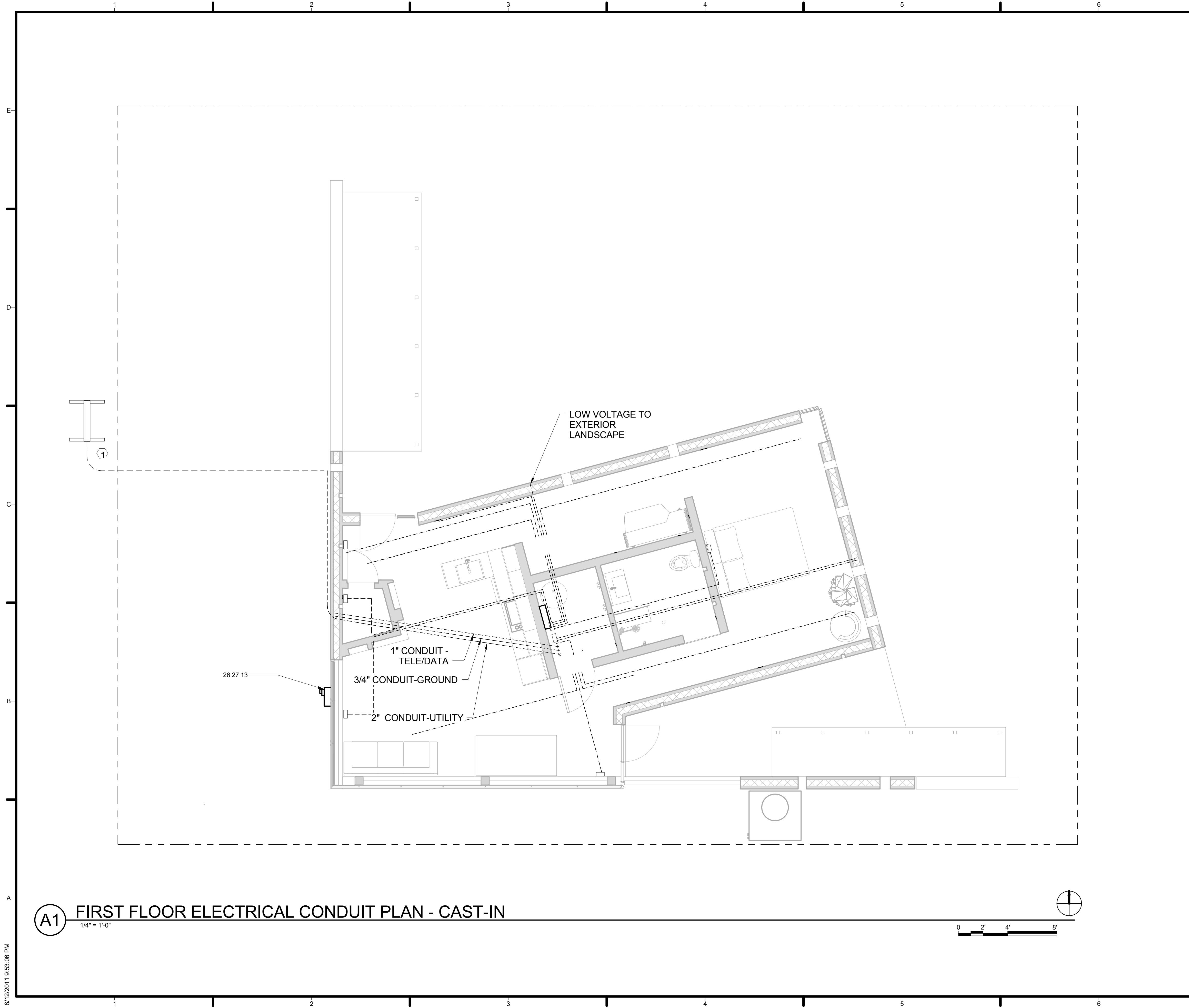


MARK	DATE	DESCRIPTION
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LOT NUMBER: LOT 104  
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SHEET TITLE  
**GRID INTERCONNECTION**

**E-104**



**GENERAL SHEET NOTES**

THE METER HOUSING WILL BE PLACED AT THE EDGE OF THE LOT AS SPECIFIED.

ALL CONDUIT IS PRECAST INTO CONCRETE FLOOR PANELS, CABLE WILL BE INSTALLED BY FISHING WIRE THROUGH THE CONDUIT CAST INTO THE FLOOR.

CAST-IN CONDUIT FOR THE WALLS IS PRESENT IN THE SHOP DRAWINGS SECTIONS

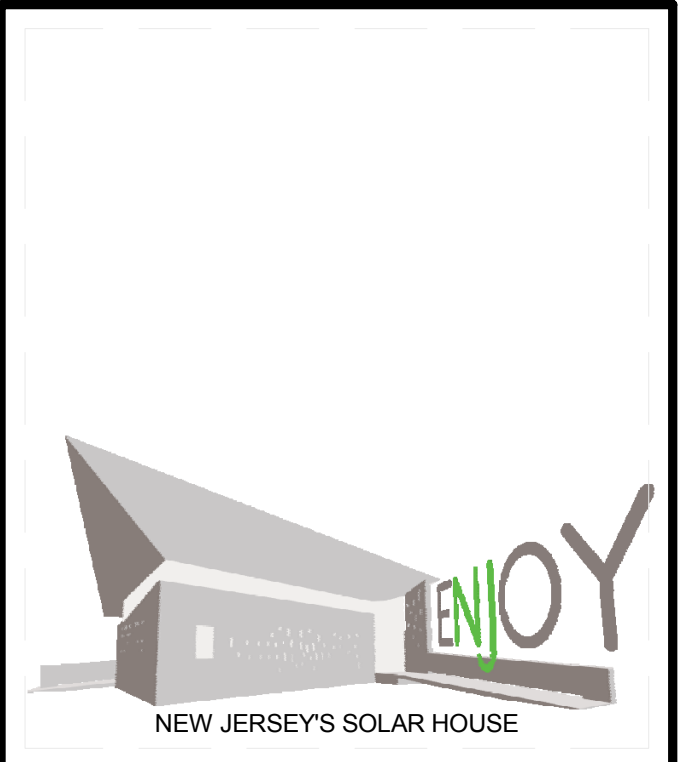
REFERENCE SHEET Z-007 FOR AS BUILT DIMENSIONS

**REFERENCE KEYNOTES**

26 27 13 DOE PROVIDED ELECTRICITY METERING

**SHEET KEYNOTES**

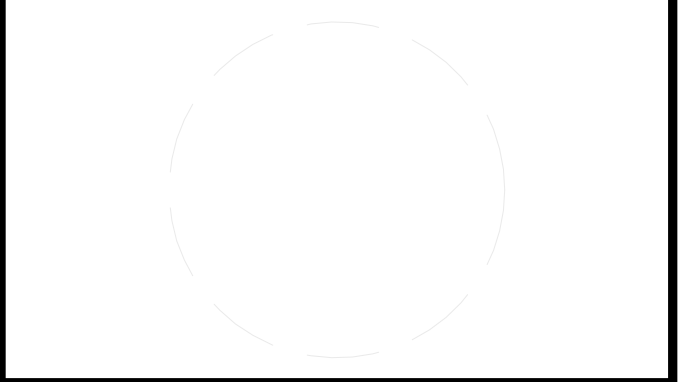
1 ORGANIZER SUPPLIED METER HOUSING



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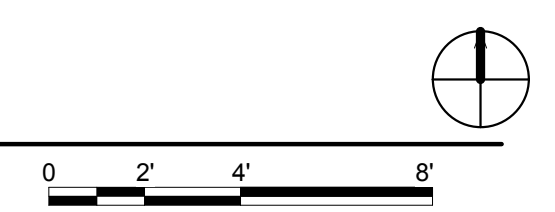
LOT NUMBER: LOT 104  
 DRAWN BY: Author  
 CHECKED BY: Checker  
 COPYRIGHT: NONE: PROJECT IS PUBLIC DOMAIN

SHEET TITLE

**CAST-IN ELECTRICAL CONDUIT PLAN**

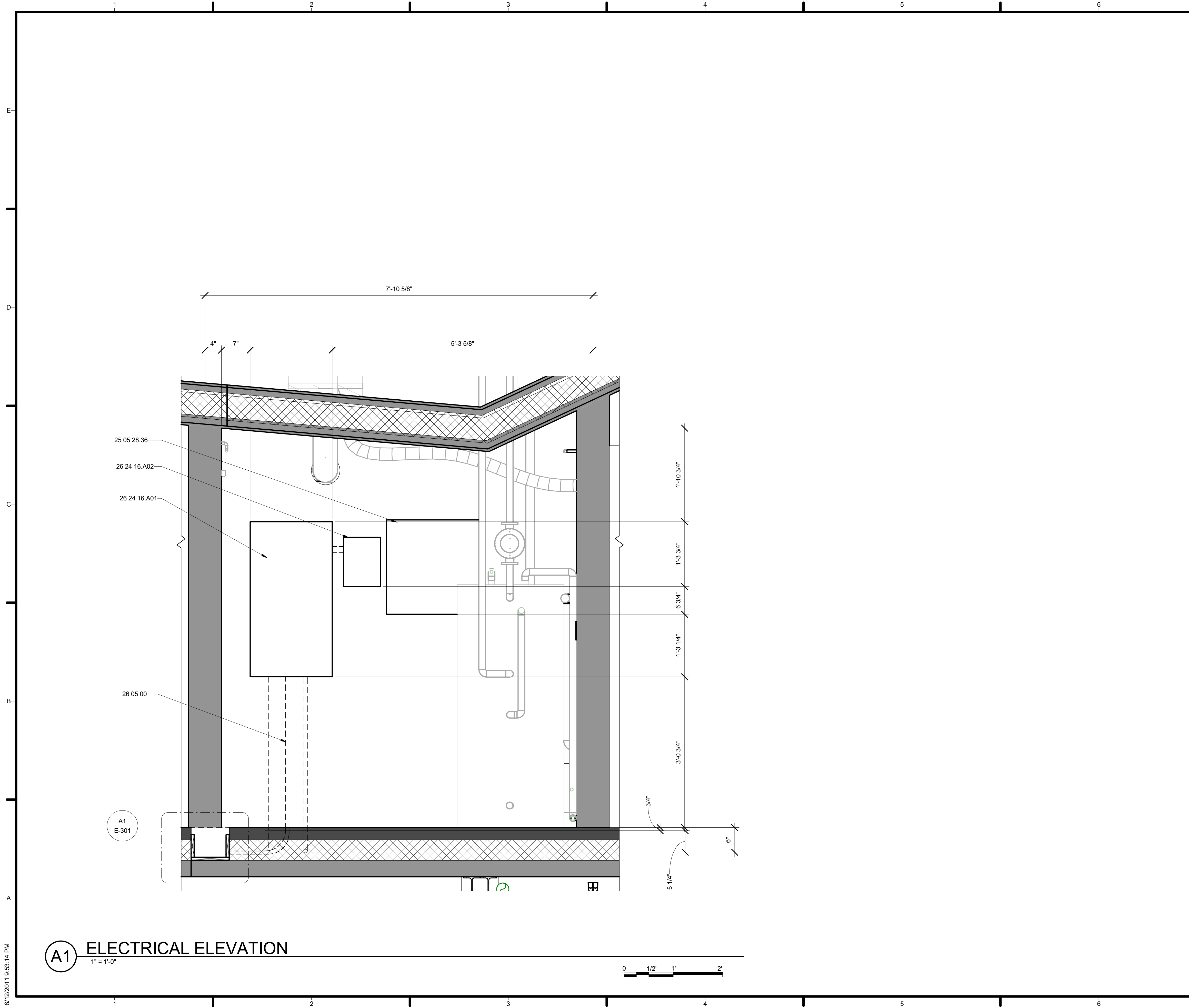
**E-105**

**(A1) FIRST FLOOR ELECTRICAL CONDUIT PLAN - CAST-IN**  
 1/4" = 1'-0"



8/12/2011 9:53:06 PM





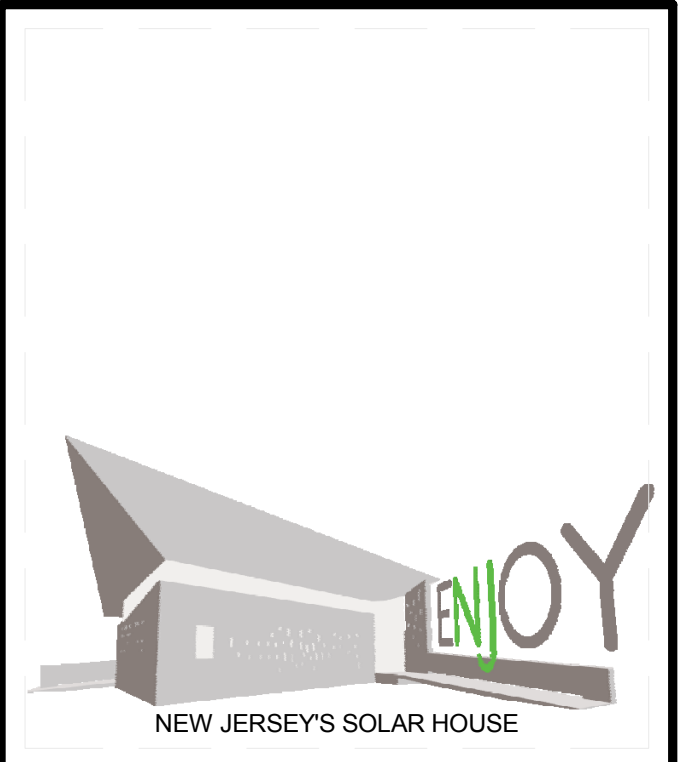
**GENERAL SHEET NOTES**

REFER TO AS BUILT SET FOR IN WALL CONDUIT AND STUB THROUGHS

**REFERENCE KEYNOTES**

- 25 05 28.36 CABLE TRAYS FOR INTEGRATED AUTOMATION
- 26 05 00 COMMON WORK RESULTS FOR ELECTRICAL
- 26 24 16.A01 EATON 200 AMP PANEL BOX
- 26 24 16.A02 SQUARED 100 AMP CIRCUIT LOAD CENTER

**SHEET KEYNOTES**



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**SHEET TITLE**

**ELECTRICAL ELEVATIONS**

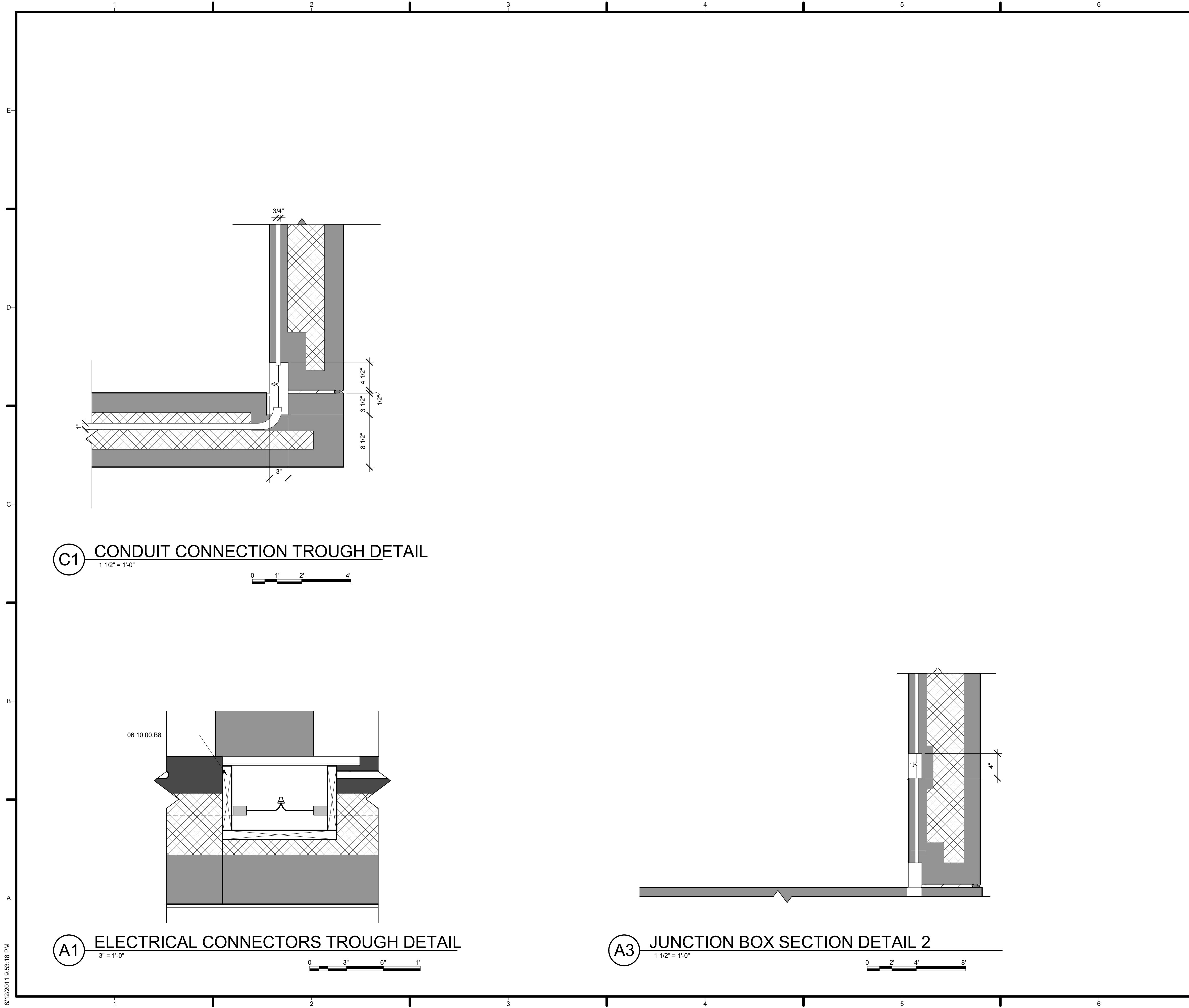
**E-201**

**A1 ELECTRICAL ELEVATION**

1" = 1'-0"



8/12/2011 9:53:14 PM

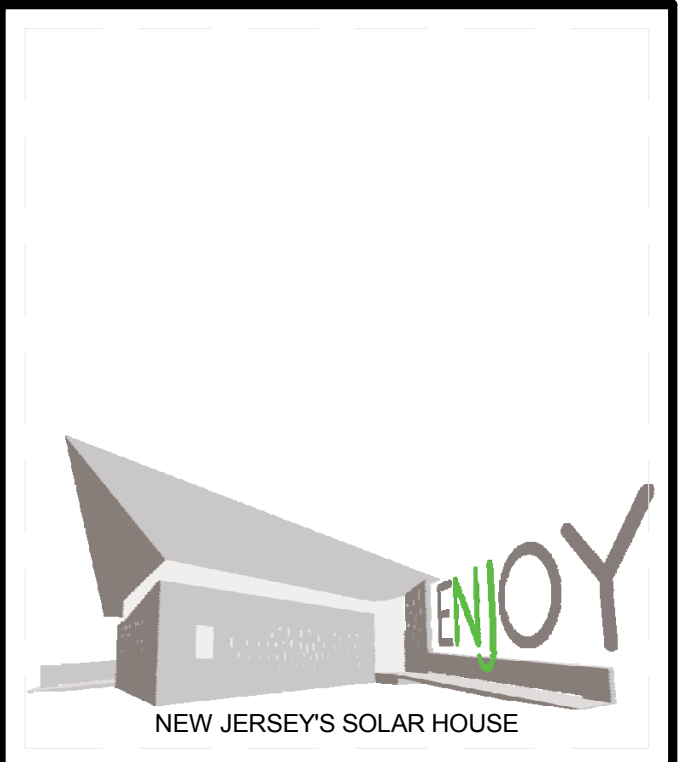


GENERAL SHEET NOTES

REFERENCE KEYNOTES

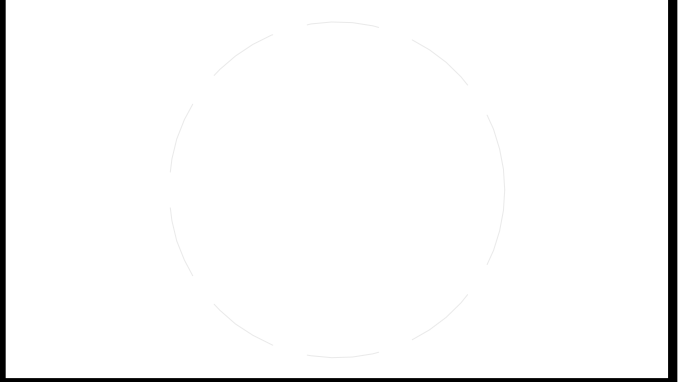
06 10 00.B8 1X6

SHEET KEYNOTES



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SHEET TITLE  
**ELECTRICAL DETAILS**

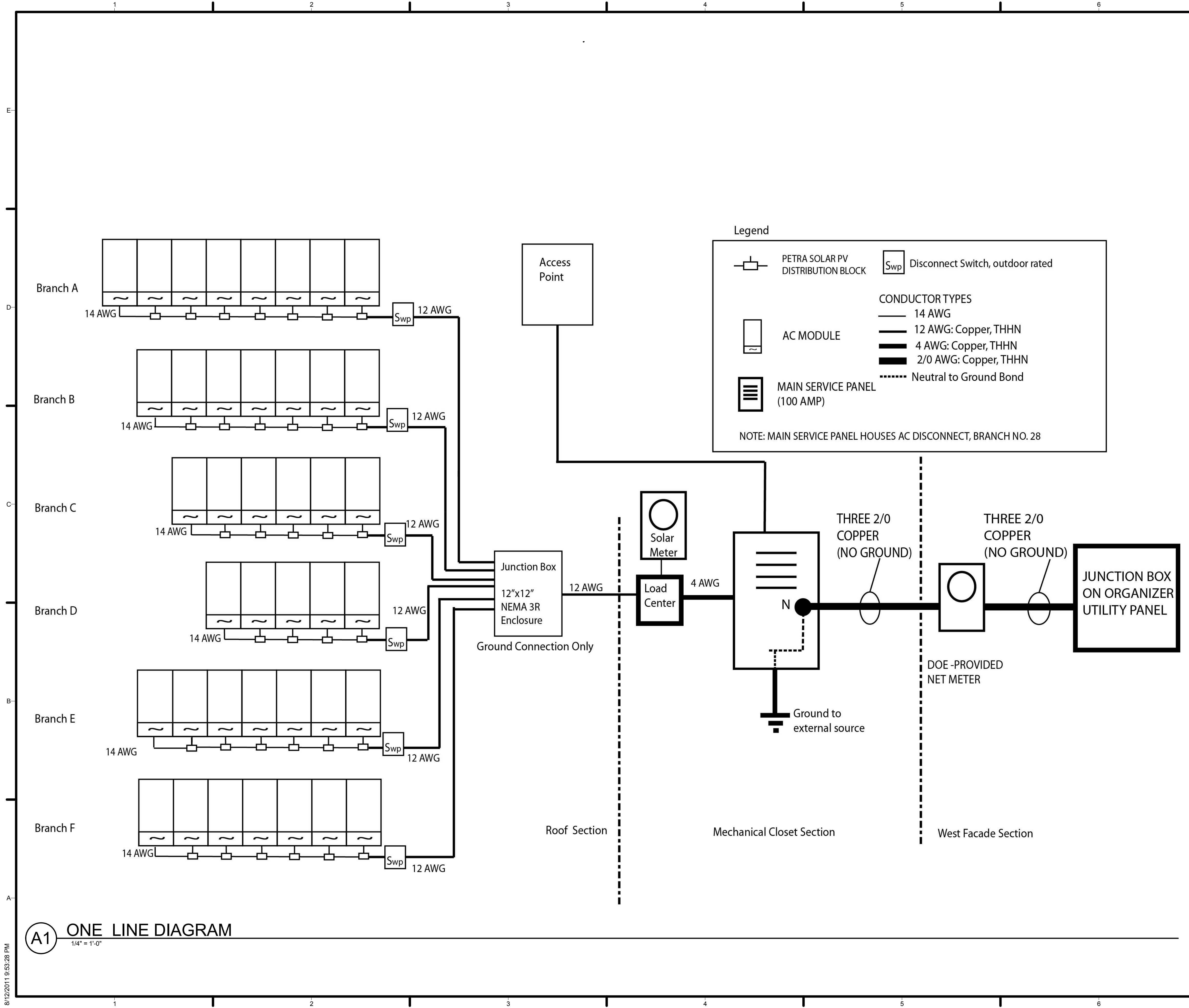
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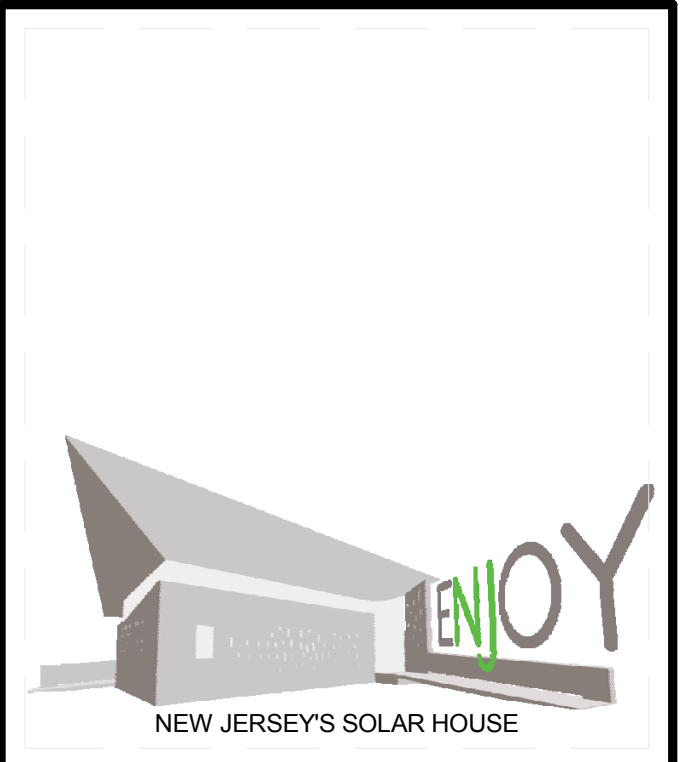


**GENERAL SHEET NOTES**

ALL WIRING ON ROOF WILL BE CONTAINED IN LIQUID TIGHT FLEXIBLE METAL CONDUIT, 1" TO 1-1/4"

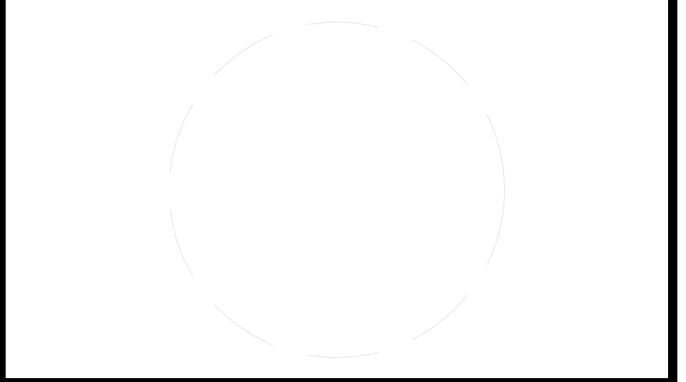
**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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A	03/22/2011	CONSTRUCTION DOCUMENTS

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SHEET TITLE  
**PV ONE-LINE DIAGRAM**

**E-602**

**A1 ONE LINE DIAGRAM**  
 1/4" = 1'-0"

8/12/2011 9:53:28 PM







**NEUTRAL LOAD CALCULATIONS IN ACCORDANCE WITH NEC 220.61**

BASIC CALCULATION: THE FEEDER OR SERVICE NEUTRAL LOAD SHALL BE THE MAXIMUM UNBALANCE OF THE LOAD. THE MAXIMUM UNBALANCED LAOD SHALL BE THE MAXIMUM NET CALCULATED LOAD BETWEEN THE NEUTRAL CONDUCTOR AND ANY ONE UNDERGROUND CONDUCTOR.

SERVICE LOAD: 113.5 a  
240 V LOADS DO NOT CONTRIBUTE TOWARD THE NEUTRAL CURRENT (I.E. HEAT PUMP, AIR HANDLER, AND WATER HEATER)

HEAT PUMP: 20A  
AIR HANDLER: 4.85 A  
TANKLESS WATER HEATER: 80A  
113.5-20-4.85-80 = 8.65 A

THE CONDUCTOR FEEDING THE NEUTRAL MUST HAVE AN AMAPCITY OF AT LEAST 8.65 AMPERES

**PANEL SCHEDULE**

PANEL PP1 120/240 V 1 Ph 3W									
Branch Number	LOAD/Dedicated Circuit	Amps	Volts	AWG	Branch Number	LOAD/Dedicated Circuit	Amps	Volts	AWG
1	Kitchen Receptacles/Lighting	20	120	12	2	Bathroom Receptacles/Lighting	20	120	12
3	Kitchen Receptacles/Lighting	20	120	12	4	Living Room Receptacles (I)/Lighting	20	12	12
5	Living Room Receptacles (II)/lighting	20	120	12	6	Outdoor Landscape Lighting	20	120	12
7	Bedroom Receptacles/Lighting	20	120	12	8	North Hallway Receptacles/Lighting	20	120	12
9	Smoke Detectors	20	120	12	10	South Hallway Receptacles/Lighting	20	120	12
11	Outdoor Heat Pump	30	240	10	12	Dishwasher	20	120	12
13	Outdoor Heat Pump	30	240	10	14	Tankless Hot Water Heater	40	240	8
15	Outdoor Jet Pump	20	120	12	16	Tankless Hot Water Heater	40	240	8
17	Refrigerator	20	120	12	18	Dryer	30	120	10
19	Stove Range	40	240	8	20	Dryer	30	120	10
21	Stove Range	40	240	8	22	Dehumidifier	20	120	12
23	Washer	20	120	12	24	Air Handler	20	240	12
25	Solar Hot Water Pump/Controller	20	120	12	26	Air Handler	20	240	12
27	ERV	20	120	12	28	Hydronic Floor Pump	20	120	12
29	BMS	20	120	12	30	PV Subpanel	80	120	4
31	Fire Safety	20	120	12	32	AP Communicator	20	120	14

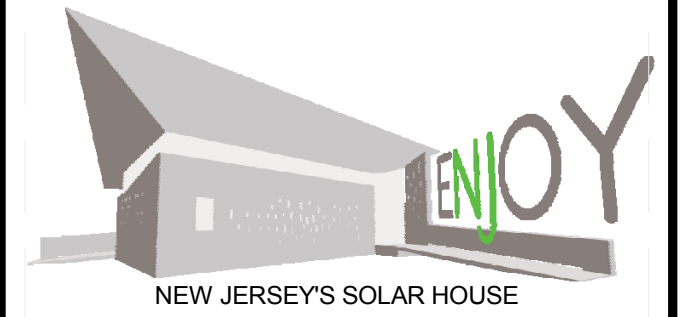
**LOAD CENTER SCHEDULE**

LOAD CENTER 100 AMP 12 CIRCUIT 120-240 VOLT NEMA 1									
Branch Number	LOAD/Dedicated Circuit	Amps	Volts	AWG	Branch Number	LOAD/Dedicated Circuit	Amps	Volts	AWG
1	Branch A	15	120	12	2	Branch D	15	120	12
3	Branch B	15	120	12	4	Branch E	15	12	12
5	Branch C	15	120	12	6	Branch F	15	120	12
7			120		8			120	
9			120		10			120	

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**



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MARK	DATE	DESCRIPTION
B	08/01/2011	AS-BUILTS
A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
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**SHEET TITLE**

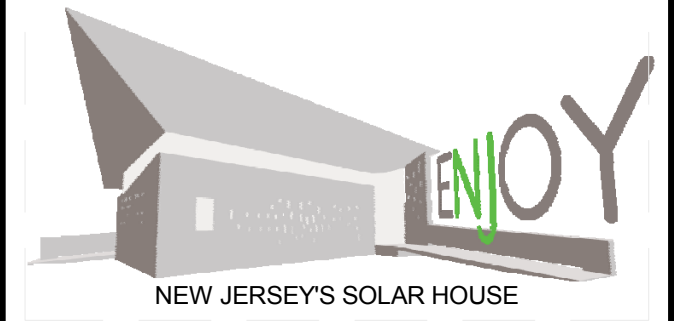
**NEUTRAL LOAD CALCULATIONS**

**E-604**



ELECTRICAL FIXTURE SCHEDULE			
OUTLET TYPE	RECEPTACLE TYPE	COUNT	ELECTRICAL DATA
DEK DOTS TRANSFORMER	DEK DOTS TRANSFORMER	1	120 V/1-0 VA
GFCI	Quadplex Receptacle	2	120 V/1-360 VA
GFCI	Duplex Receptacle	4	120 V/1-180 VA
LOAD CENTER	LOAD CENTER	2	
Plain	Quadplex Receptacle	1	120 V/1-360 VA
Standard	Special Purpose Receptacle	4	120 V/1-360 VA
Standard	Duplex Receptacle	23	120 V/1-180 VA

LIGHTING FIXTURE SCHEDULE			
KEYNOTE	COUNT	MANUFACTURER	MODEL
26 51 00.A01	1	A-LIGHT	ARRIS 5
26 51 00.B01	2	A-LIGHT	ALURE 2
26 51 00.C01	4	A-LIGHT	ACCOLADE 3
26 51 00.D01	4	A-LIGHT	ALURE 2
26 51 00.E01	4	A-LIGHT	ACCOLADE 4
26 51 00.F01	7	A-LIGHT	ARRIS 5
26 56 00.A01	3	A-LIGHT	ACCOLADE 3
26 56 00.B01	7	TROY LANDSCAPE	Short Step Light S10B16
26 56 00.C01	42	DEKOR	DEK DOT
26 56 00.D01	5	HINKLEY LIGHTING	PIZA



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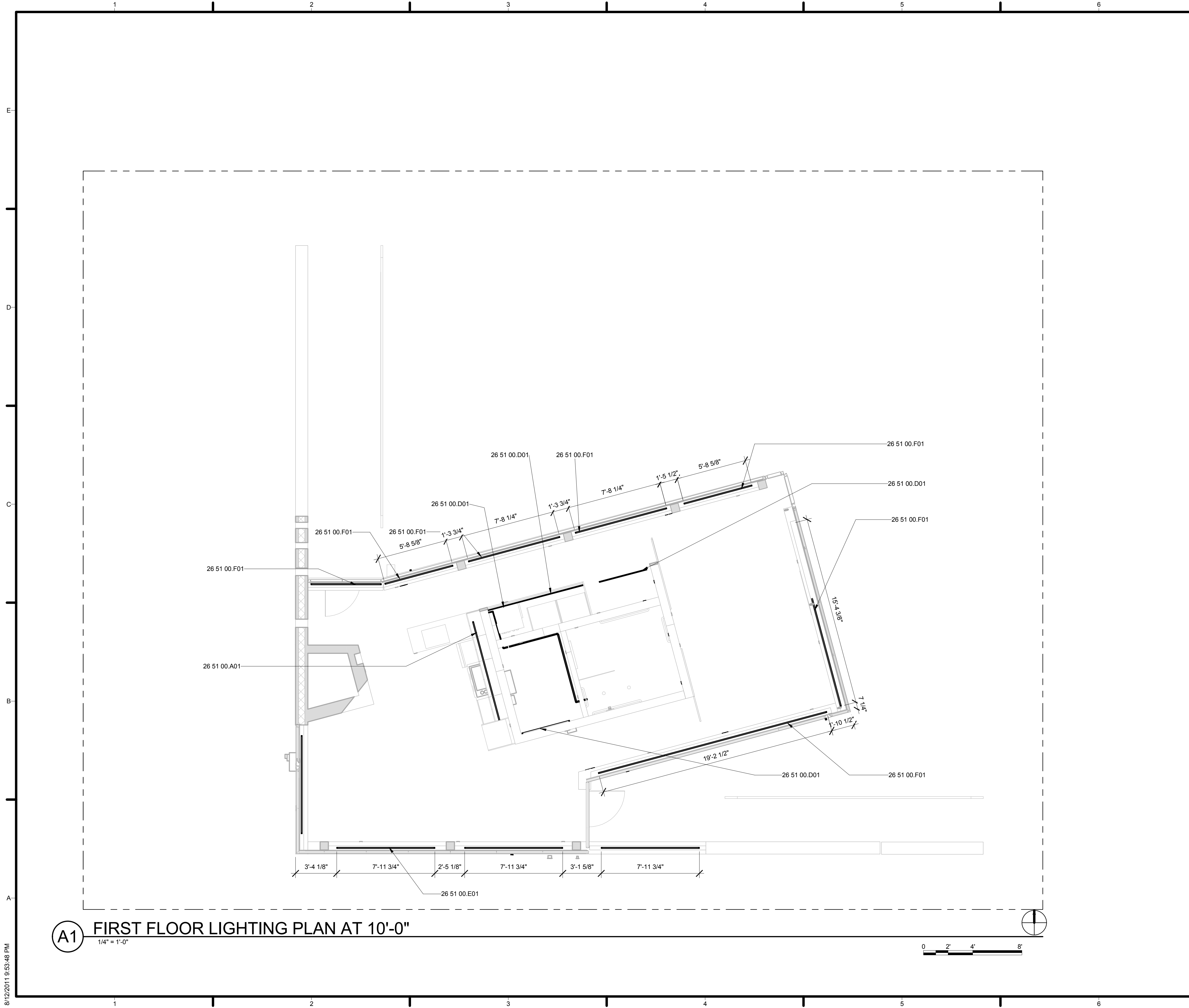


MARK	DATE	DESCRIPTION
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A	03/22/2011	CONSTRUCTION DOCUMENTS

LOT NUMBER: LOT 104  
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SHEET TITLE  
**ELECTRICAL SCHEDULES**

**E-605**



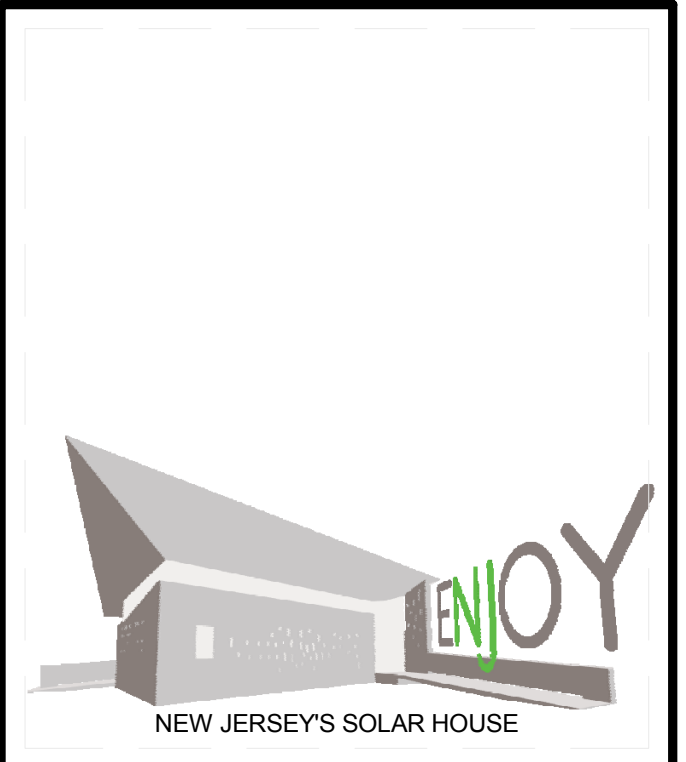
**(A1) FIRST FLOOR LIGHTING PLAN AT 10'-0"**  
 1/4" = 1'-0"

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

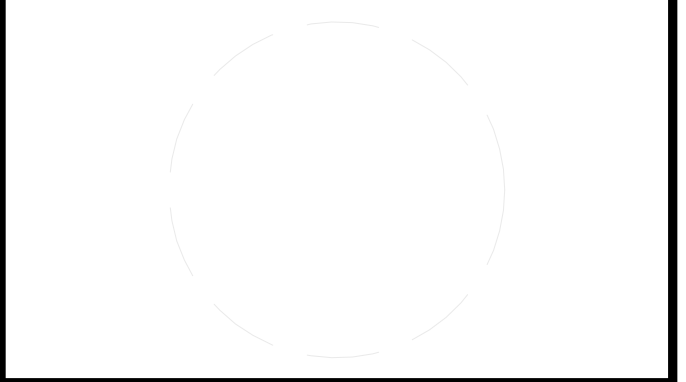
26 51 00.A01	ARRIS 5 KITCHEN LIGHT
26 51 00.D01	ALURE 2 CLOSET LIGHT FIXTURE
26 51 00.E01	ACCOLADE 3 TOP OF WALL RECESSED LIGHT FIXTURE
26 51 00.F01	ARRIS 5 TOP OF WALL RECESSED LIGHT FIXTURE

**SHEET KEYNOTES**



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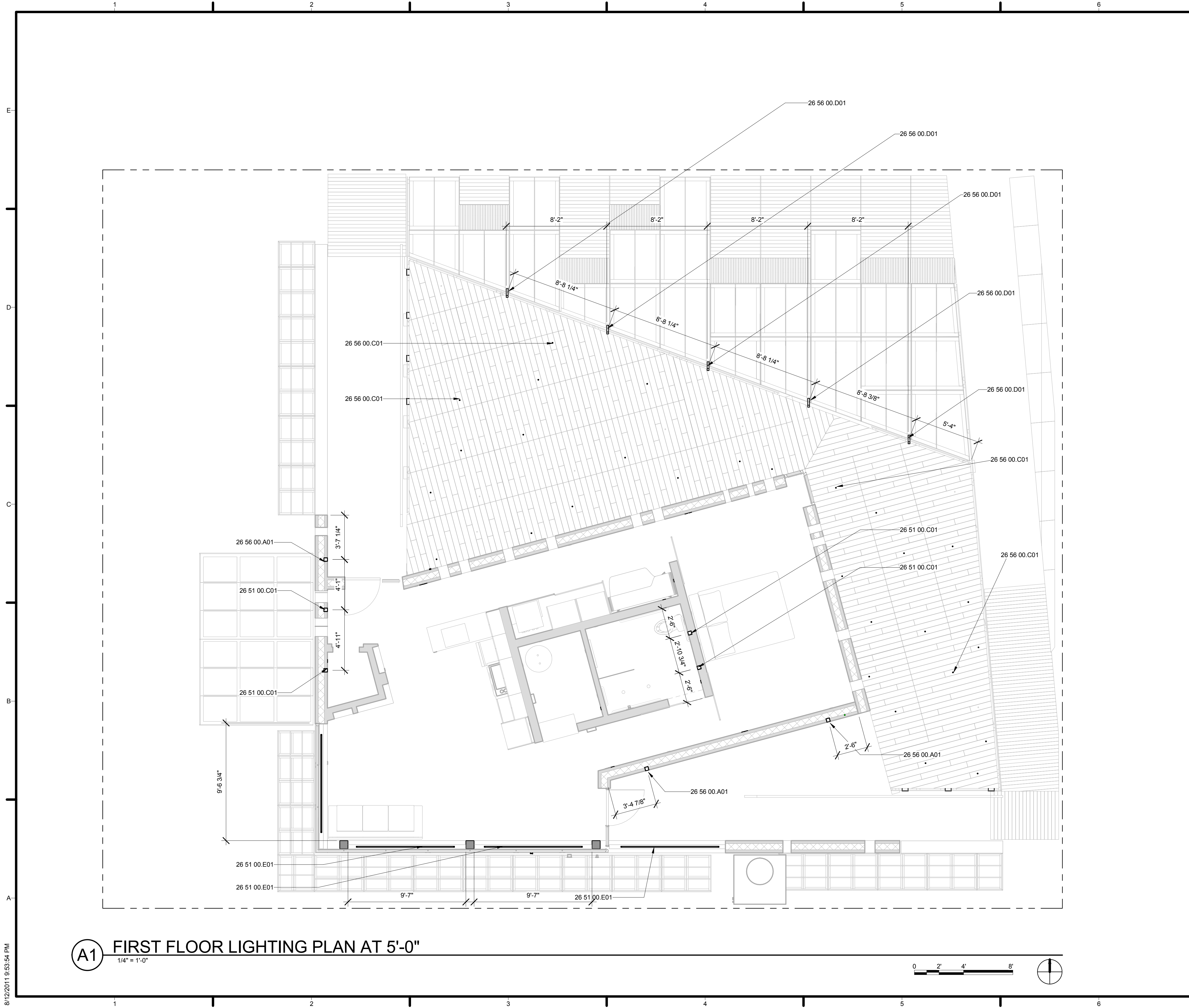
LOT NUMBER: LOT 104  
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SHEET TITLE  
**LIGHTING LOCATIONS**

**E-609**

8/12/2011 9:53:48 PM





GENERAL SHEET NOTES

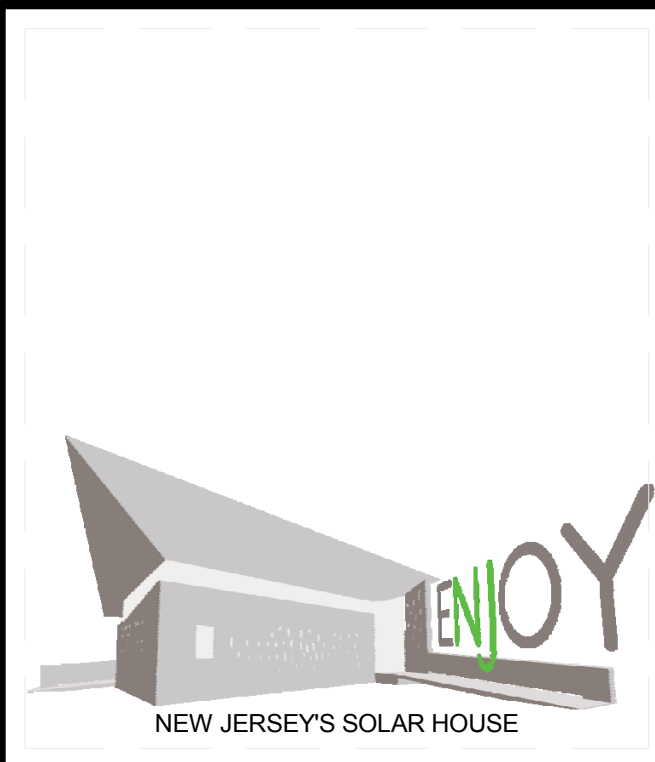
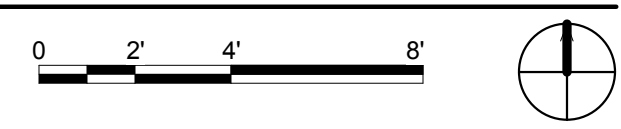
REFERENCE KEYNOTES

26 51 00.C01	ACCOLADE 3 WALL RECESS LIGHT FIXTURE
26 51 00.E01	ACCOLADE 3 TOP OF WALL RECESSED LIGHT FIXTURE
26 56 00.A01	ACCOLADE 3 WALL RECESS EXTERIOR LIGHT FIXTURE
26 56 00.C01	DEKOR DEK DOT EXTERIOR RECESSED LED LIGHT
26 56 00.D01	HINKLEY PIZA EXTERIOR LIGHT

SHEET KEYNOTES

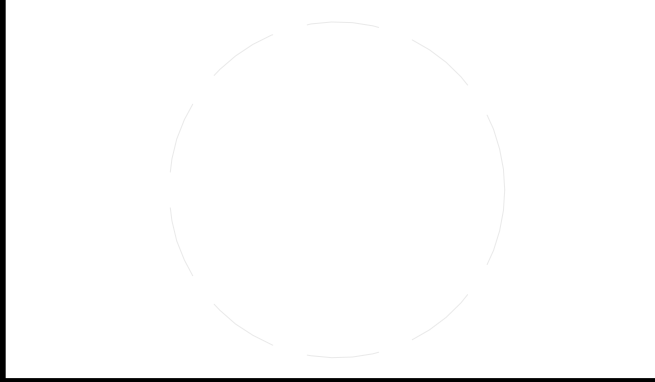
MARK	DATE	DESCRIPTION
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**A1** FIRST FLOOR LIGHTING PLAN AT 5'-0"  
1/4" = 1'-0"



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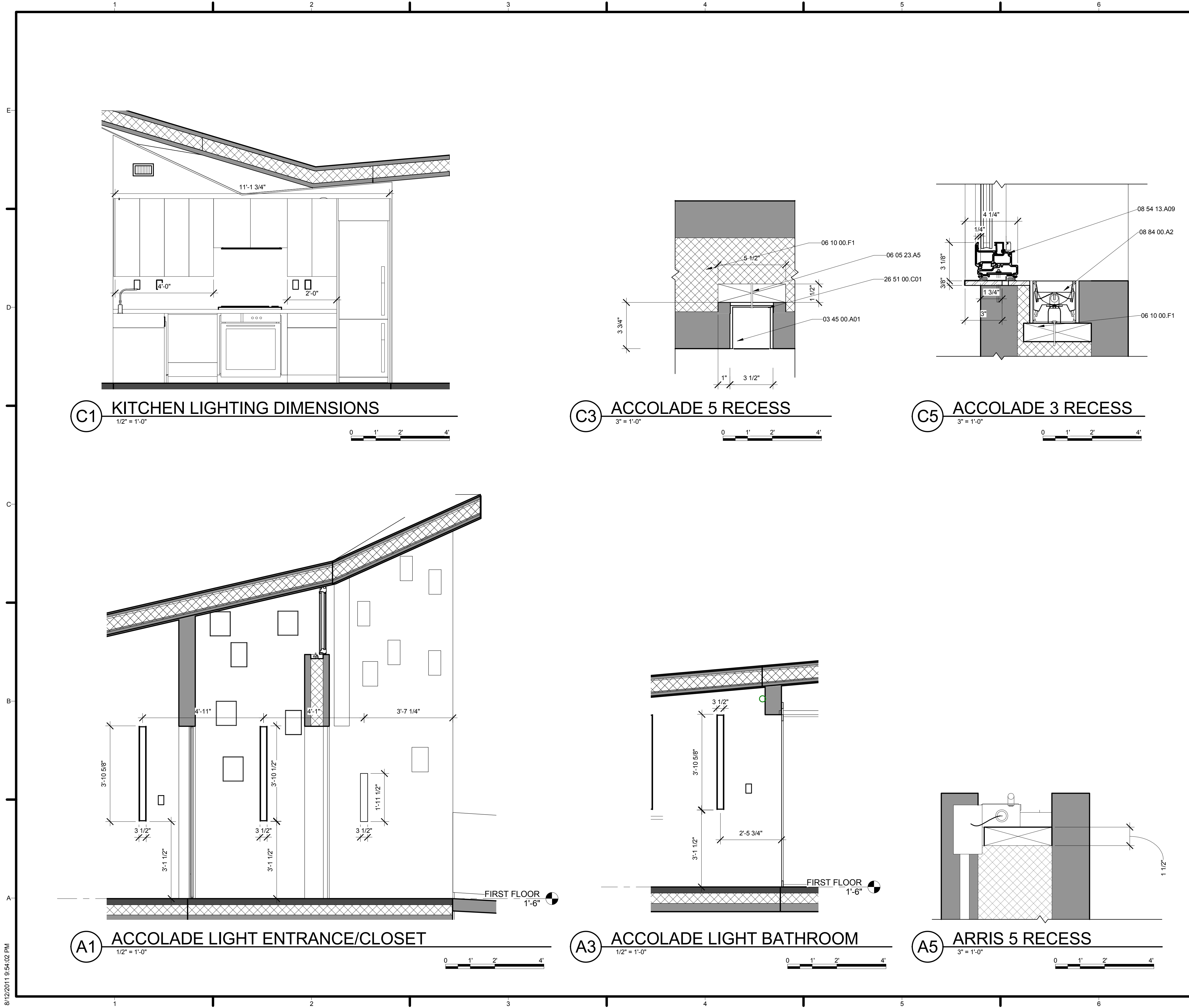


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SHEET TITLE  
**LIGHTING LOCATIONS**

**E-611**

8/12/2011 9:53:54 PM



GENERAL SHEET NOTES

REFERENCE KEYNOTES

03 45 00.A01	PIP WALL ASSEMBLY
06 05 23.A5	6 PENNY NAIL
06 10 00.F1	2X6
08 54 13.A09	AWNING FIBERGLASS MULLION
08 84 00.A2	SLIDING DOOR RAIL
26 51 00.C01	ACCOLADE 3 WALL RECESS LIGHT FIXTURE

SHEET KEYNOTES

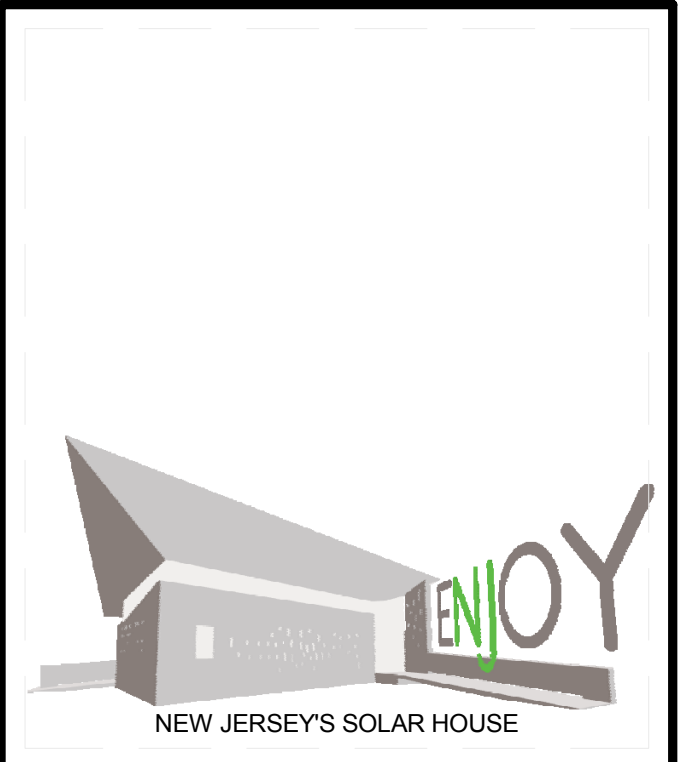
MARK	DATE	DESCRIPTION
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LOT NUMBER:	LOT 104
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SHEET TITLE

LIGHTING DETAILS

E-614



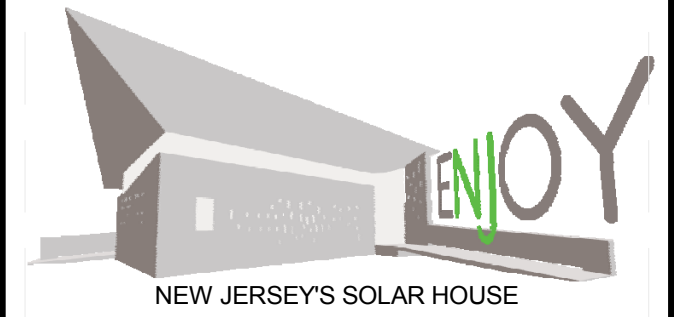
TEAM NAME:	TEAM NJ
ADDRESS:	CYPRESS ANNEX NJ INST. TECHNOLOGY NEWARK, NJ 07102
CONTACT:	TEAMNEWJERSEY@YAHOO.COM www.solarteamnewjersey.com
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	ARUP (732) 623-7402
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	ADVANCED SOLAR PRODUCTS (908) 751-5818
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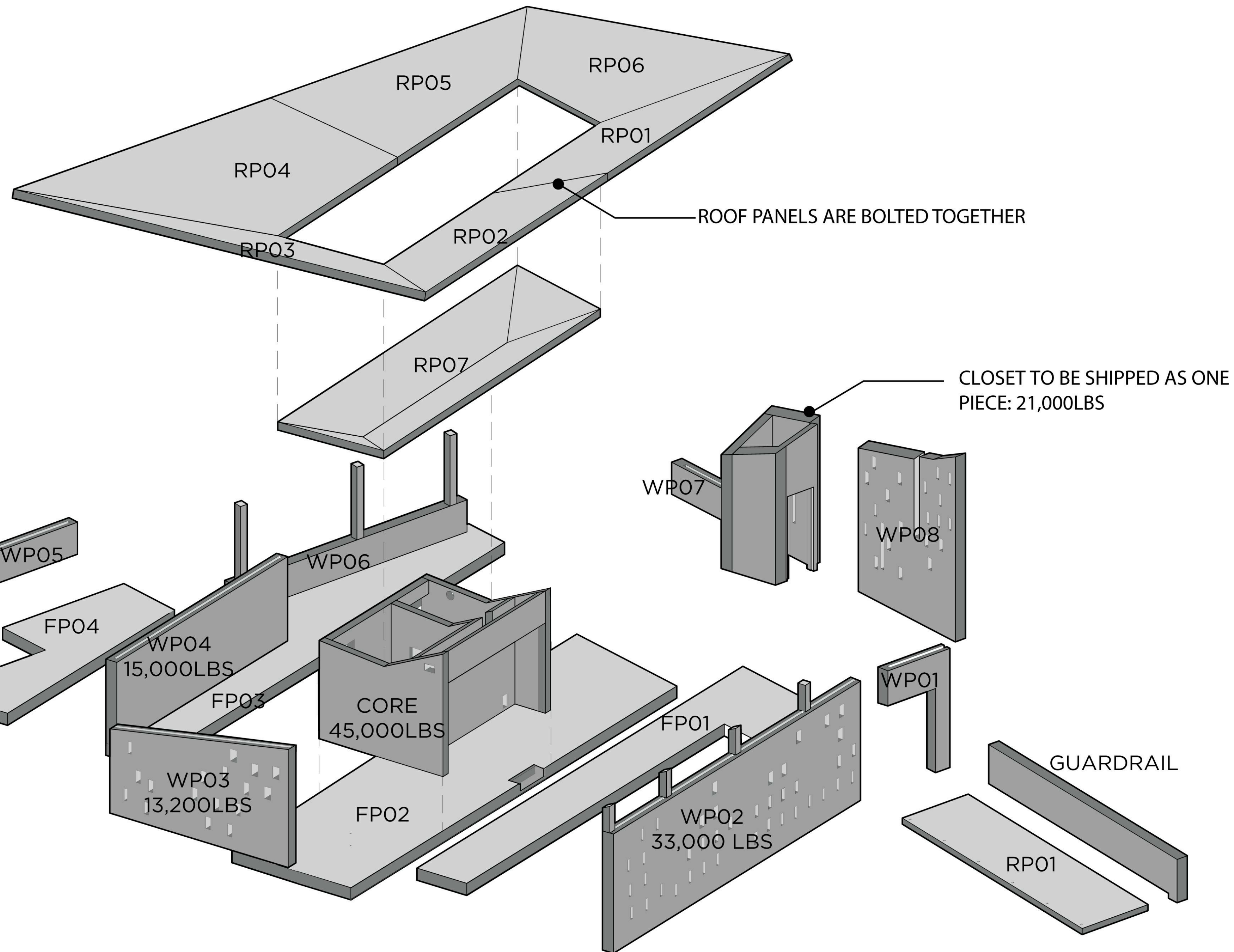


TOTAL PIECE COUNT: 26  
 TOTAL WEIGHT: 484,714 LBS



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**CONCRETE MODULES**

**Z-001**

**A1 CONCRETE MODULES**  
 3" = 1'-0"

8/12/2011 10:06:33 PM

























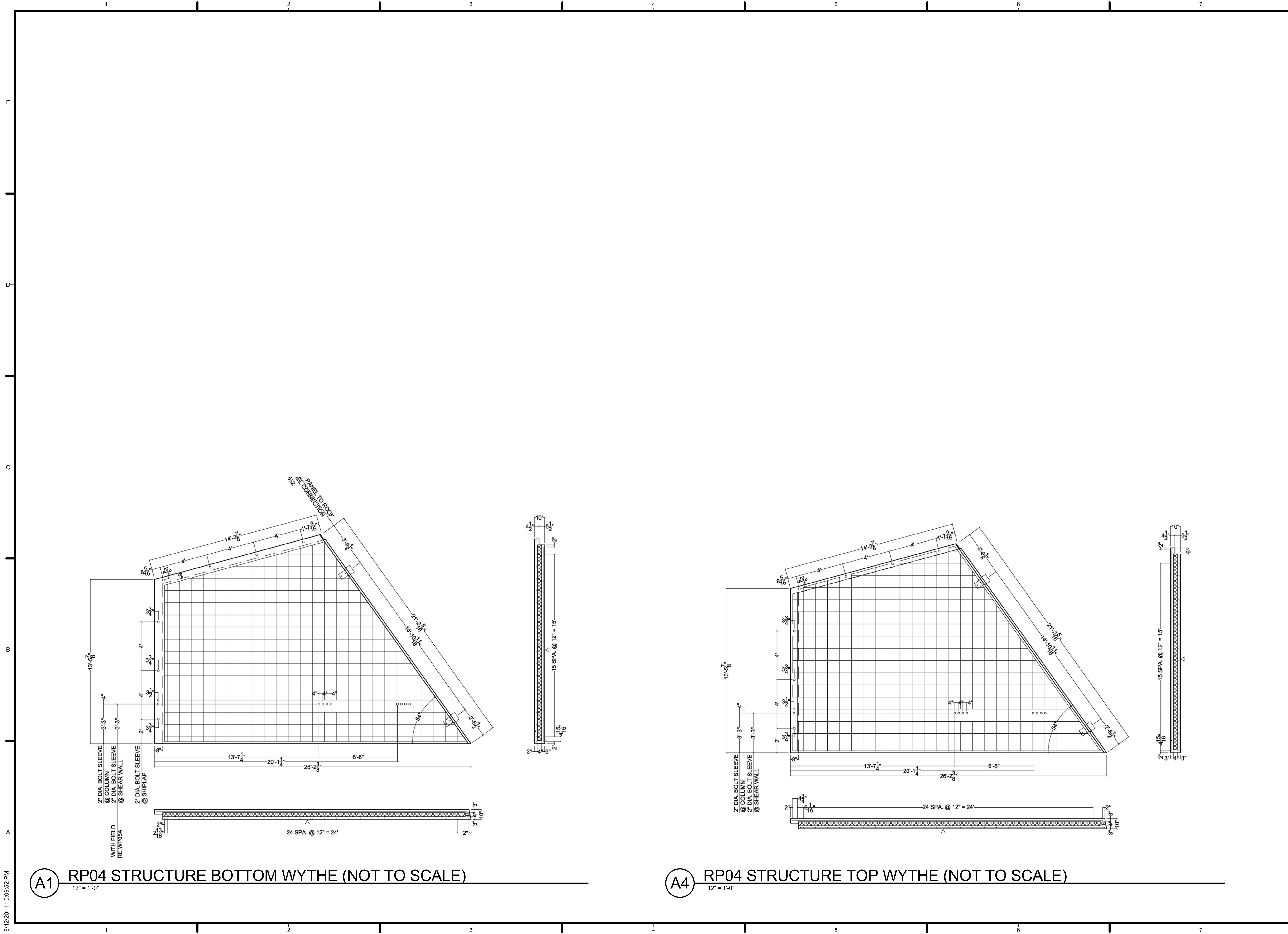






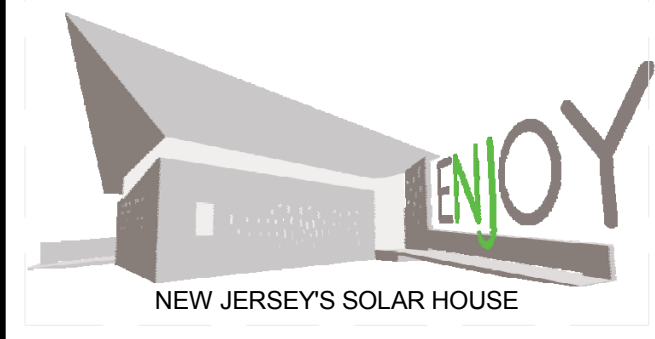






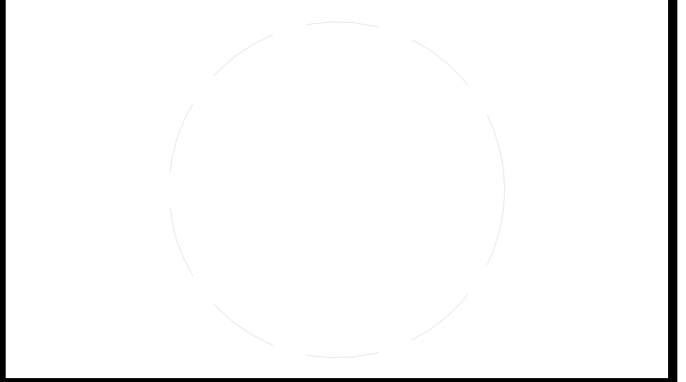
**A1** RP04 STRUCTURE BOTTOM WYTHER (NOT TO SCALE)  
12" = 1'-0"

**A4** RP04 STRUCTURE TOP WYTHER (NOT TO SCALE)  
12" = 1'-0"



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SHEET TITLE  
**FP04 AS BUILT**

**Z-013**



































































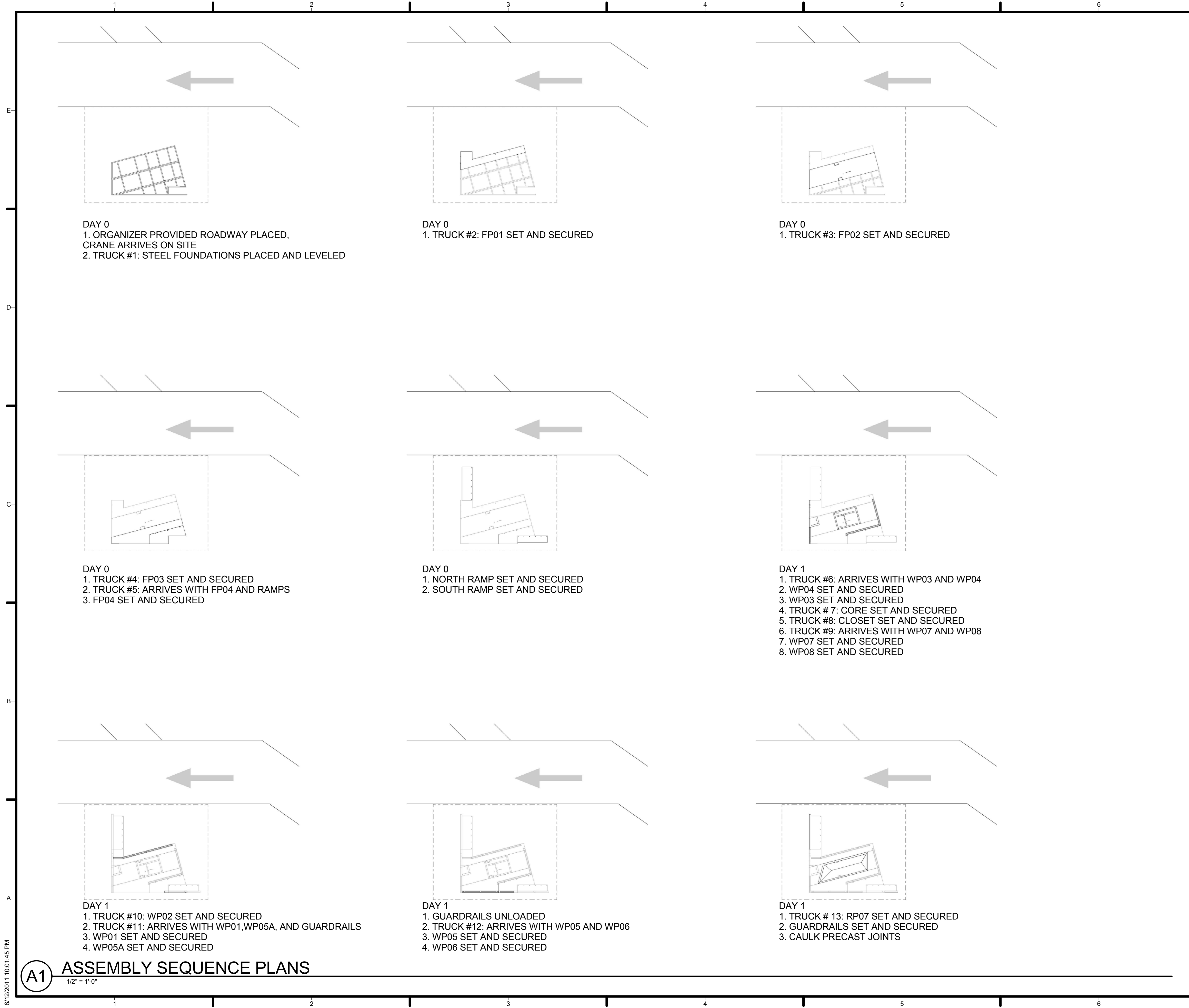






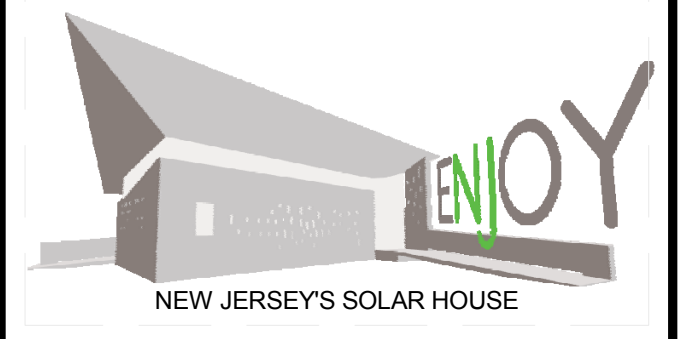






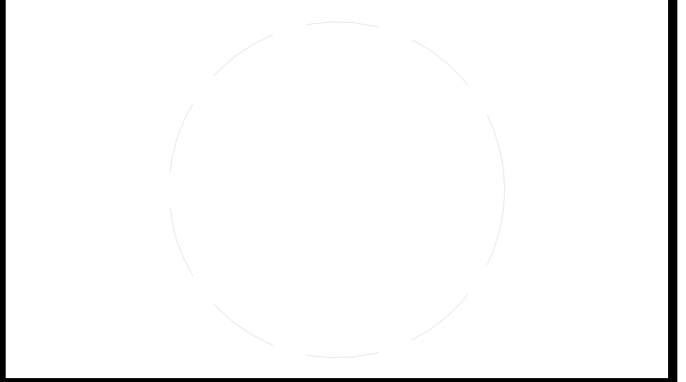
**GENERAL SHEET NOTES**

REFER TO O-901 FOR CONCRETE SHIPPING MODULES



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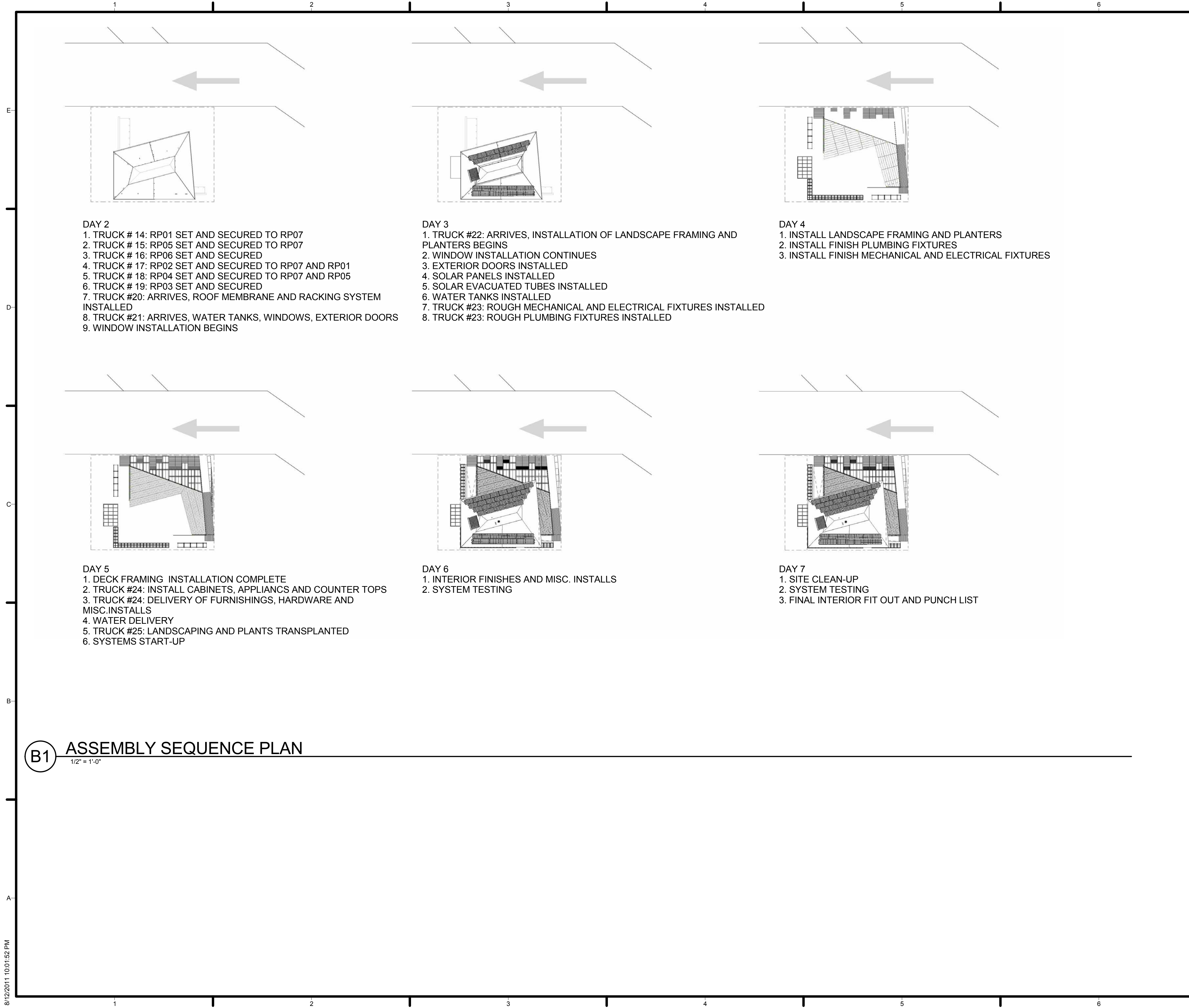
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**ASSEMBLY SEQUENCE PLANS**

**O-101**

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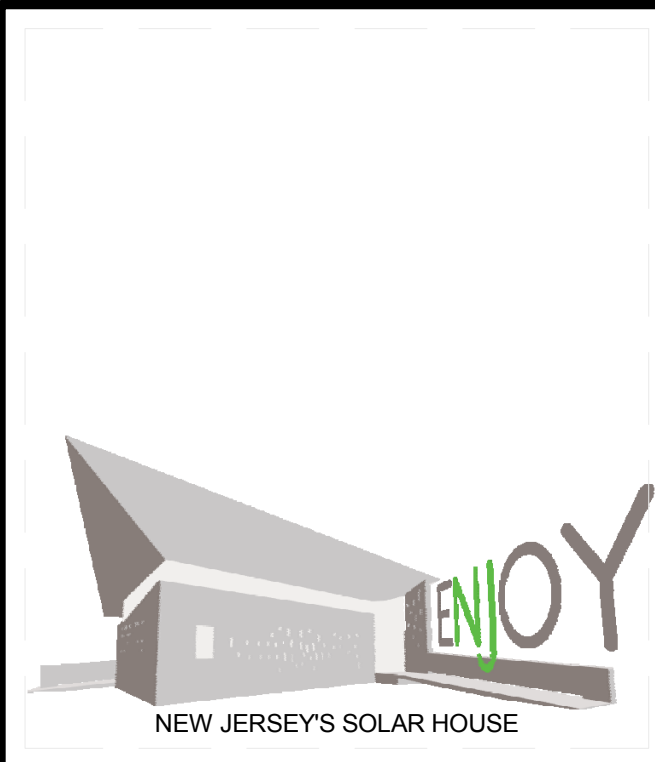
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1/2" = 1'-0"



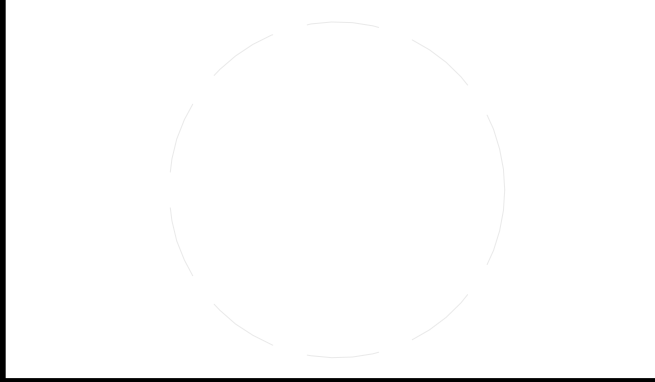
**GENERAL SHEET NOTES**

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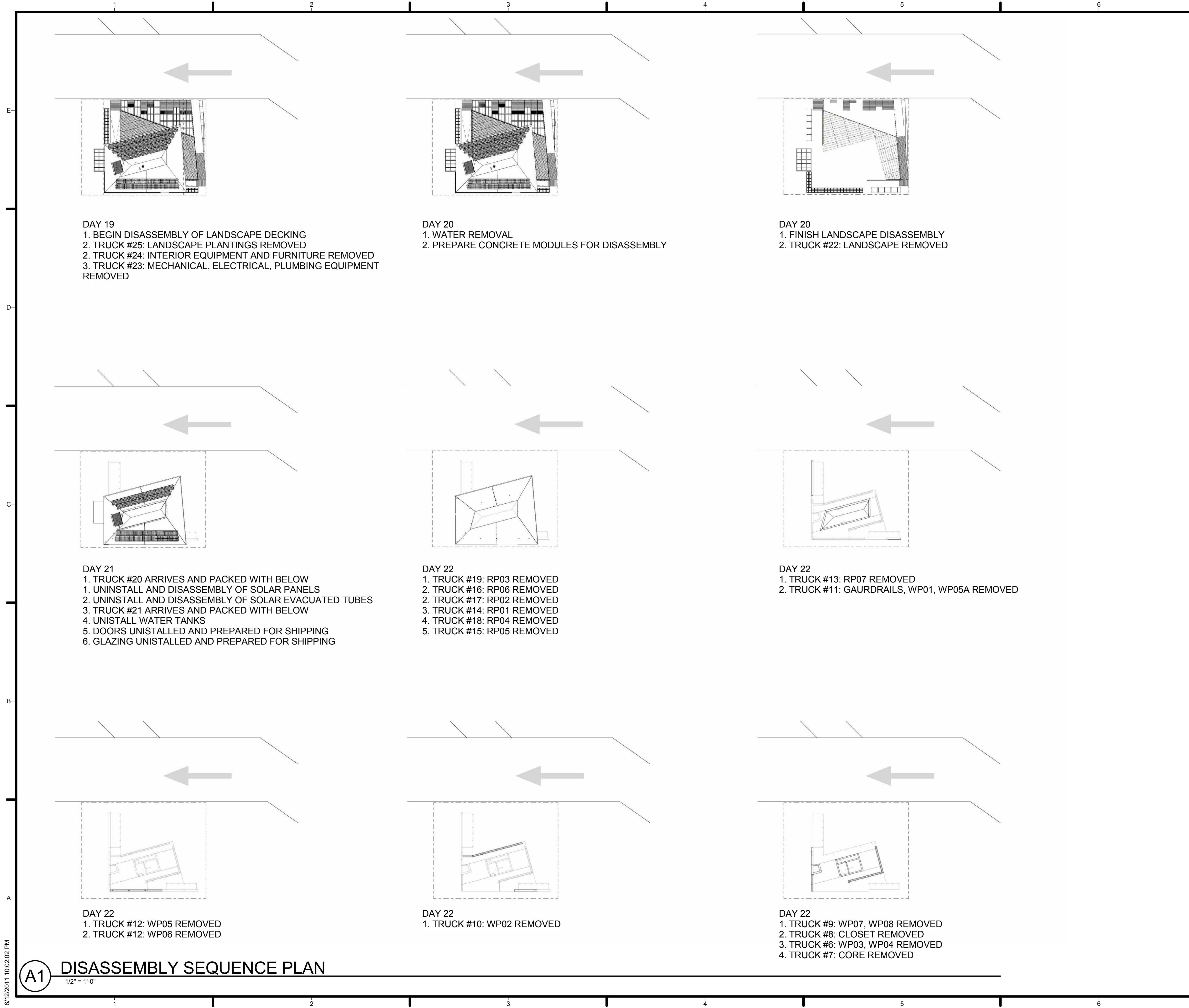
LOT NUMBER: LOT 104  
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SHEET TITLE  
**ASSEMBLY SEQUENCE PLAN**

**O-102**

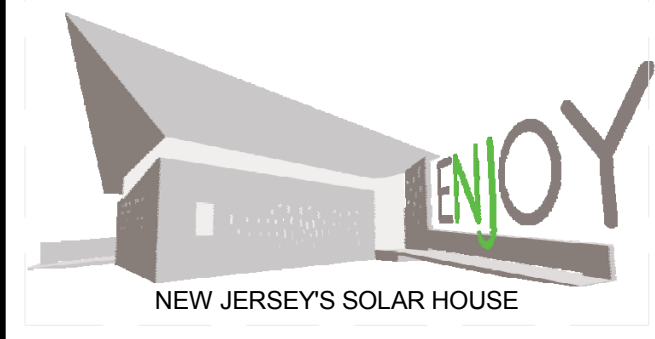
**(B1) ASSEMBLY SEQUENCE PLAN**  
 1/2" = 1'-0"





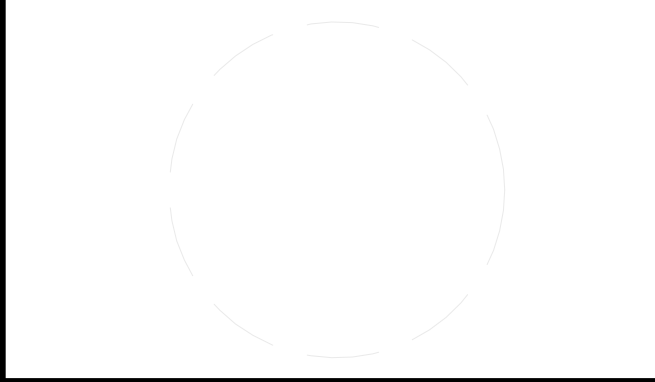
**GENERAL SHEET NOTES**

REFER TO O-901 FOR CONCRETE SHIPPING MODULES



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SHEET TITLE  
**DIASSEMBLY SEQUENCE PLANS**

**O-103**

**DAY 19**  
 1. BEGIN DISASSEMBLY OF LANDSCAPE DECKING  
 2. TRUCK #25: LANDSCAPE PLANTINGS REMOVED  
 2. TRUCK #24: INTERIOR EQUIPMENT AND FURNITURE REMOVED  
 3. TRUCK #23: MECHANICAL, ELECTRICAL, PLUMBING EQUIPMENT REMOVED

**DAY 20**  
 1. WATER REMOVAL  
 2. PREPARE CONCRETE MODULES FOR DISASSEMBLY

**DAY 20**  
 1. FINISH LANDSCAPE DISASSEMBLY  
 2. TRUCK #22: LANDSCAPE REMOVED

**DAY 21**  
 1. TRUCK #20 ARRIVES AND PACKED WITH BELOW  
 1. UNINSTALL AND DISASSEMBLY OF SOLAR PANELS  
 2. UNINSTALL AND DISASSEMBLY OF SOLAR EVACUATED TUBES  
 3. TRUCK #21 ARRIVES AND PACKED WITH BELOW  
 4. UNINSTALL WATER TANKS  
 5. DOORS UNINSTALLED AND PREPARED FOR SHIPPING  
 6. GLAZING UNINSTALLED AND PREPARED FOR SHIPPING

**DAY 22**  
 1. TRUCK #19: RP03 REMOVED  
 2. TRUCK #16: RP06 REMOVED  
 2. TRUCK #17: RP02 REMOVED  
 3. TRUCK #14: RP01 REMOVED  
 4. TRUCK #18: RP04 REMOVED  
 5. TRUCK #15: RP05 REMOVED

**DAY 22**  
 1. TRUCK #13: RP07 REMOVED  
 2. TRUCK #11: GAURDRAILS, WP01, WP05A REMOVED

**DAY 22**  
 1. TRUCK #12: WP05 REMOVED  
 2. TRUCK #12: WP06 REMOVED

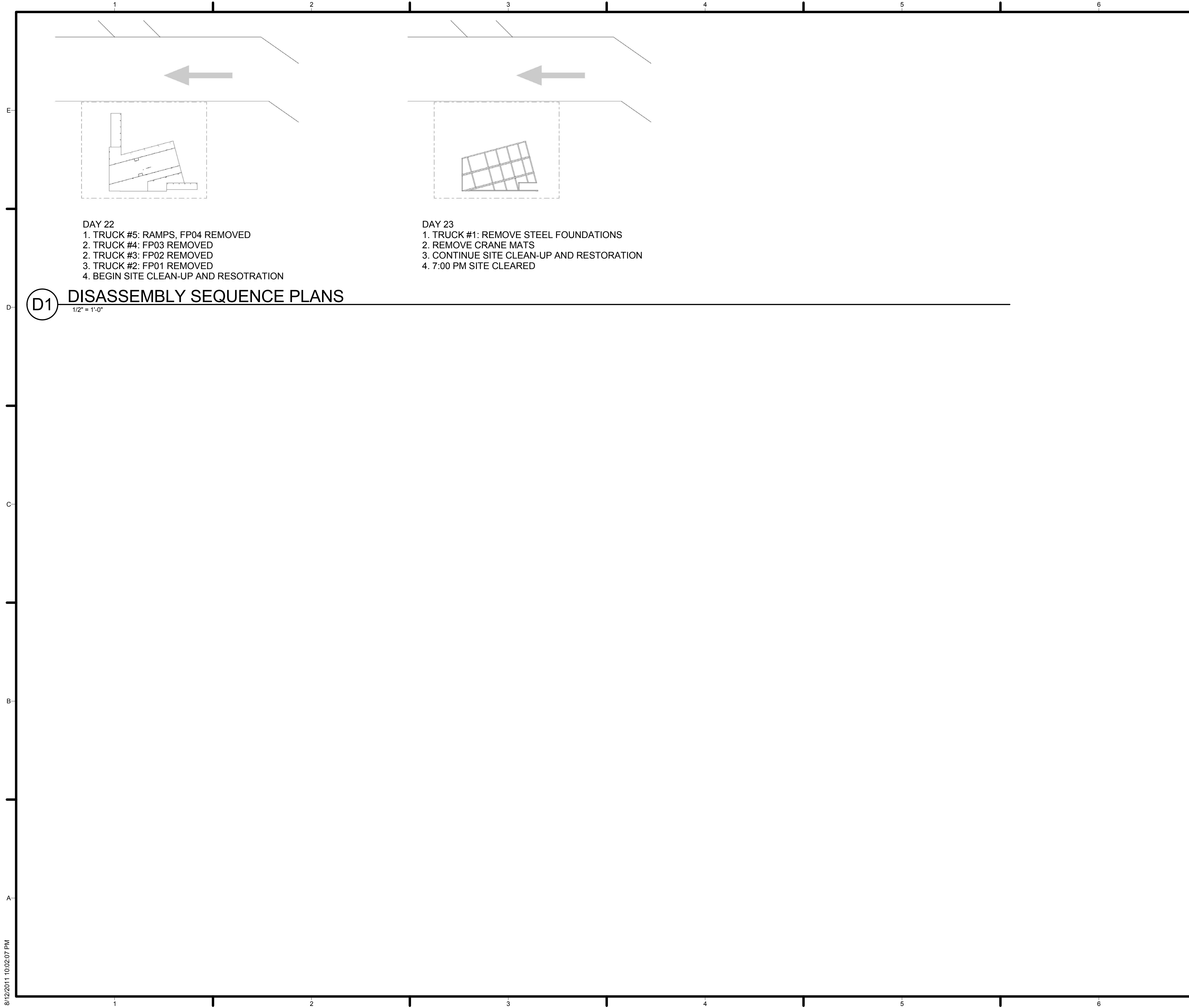
**DAY 22**  
 1. TRUCK #10: WP02 REMOVED

**DAY 22**  
 1. TRUCK #9: WP07, WP08 REMOVED  
 2. TRUCK #8: CLOSET REMOVED  
 3. TRUCK #6: WP03, WP04 REMOVED  
 4. TRUCK #7: CORE REMOVED

**A1 DISASSEMBLY SEQUENCE PLAN**

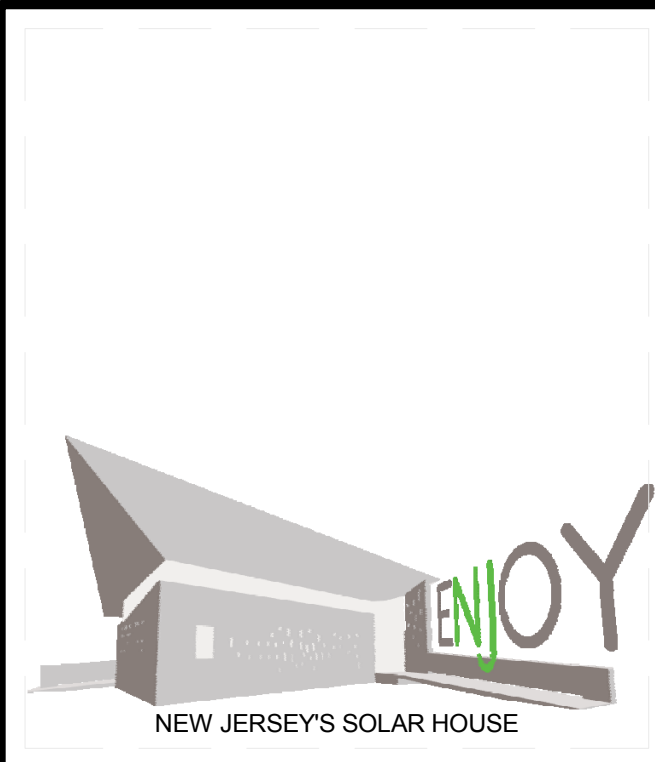
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**GENERAL SHEET NOTES**

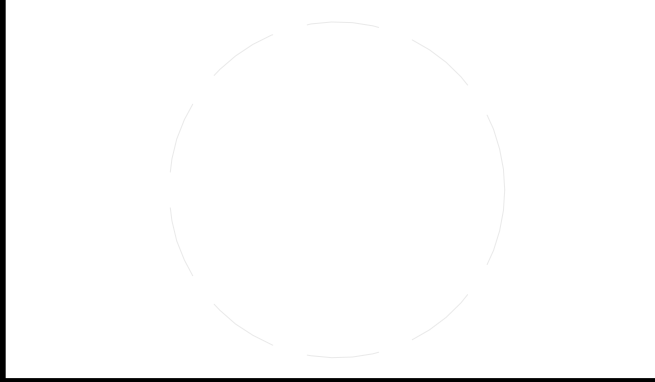
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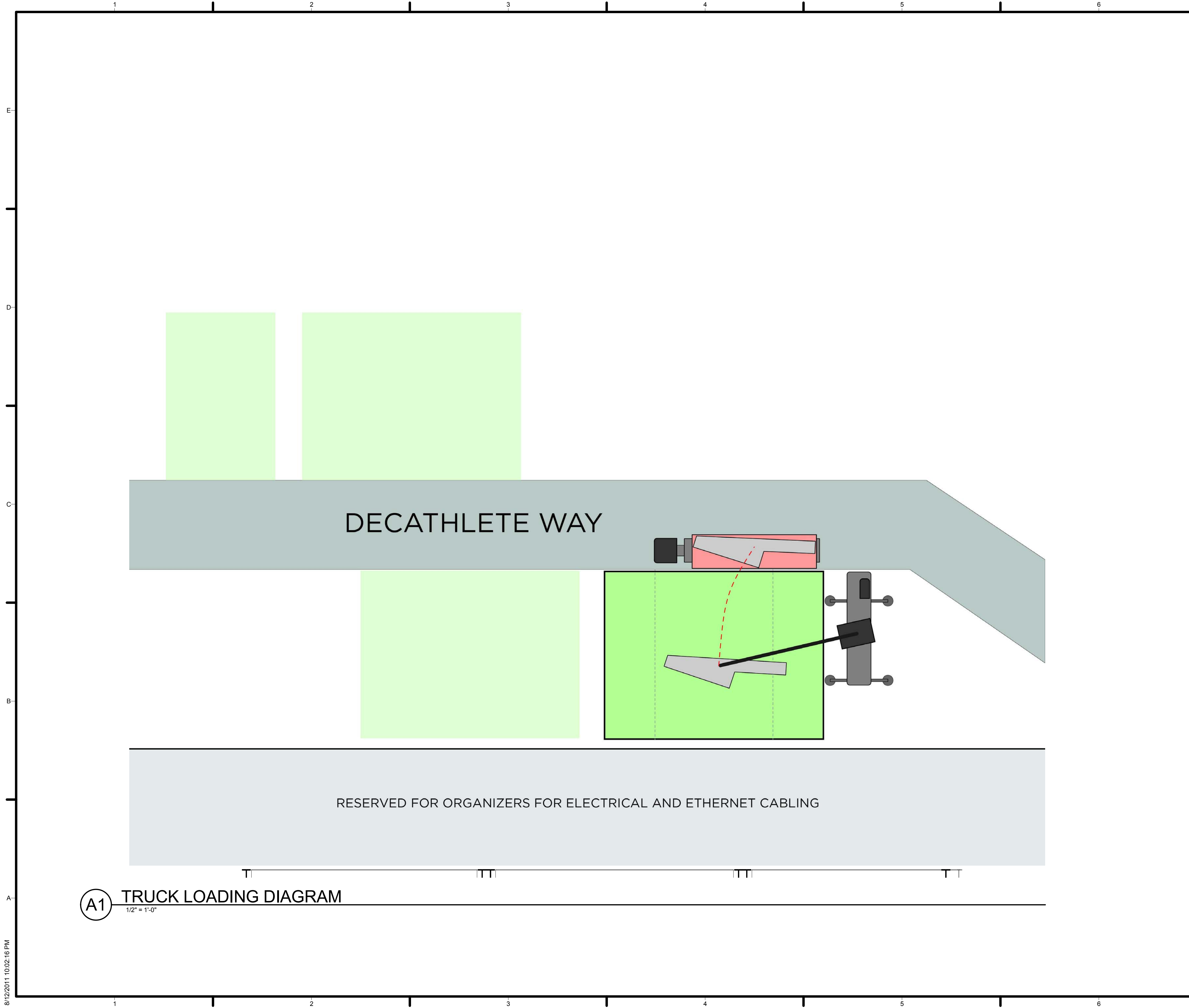
**DISASSEMBLY SEQUENCE PLAN**

**O-104**

**D1 DISASSEMBLY SEQUENCE PLANS**  
 1/2" = 1'-0"



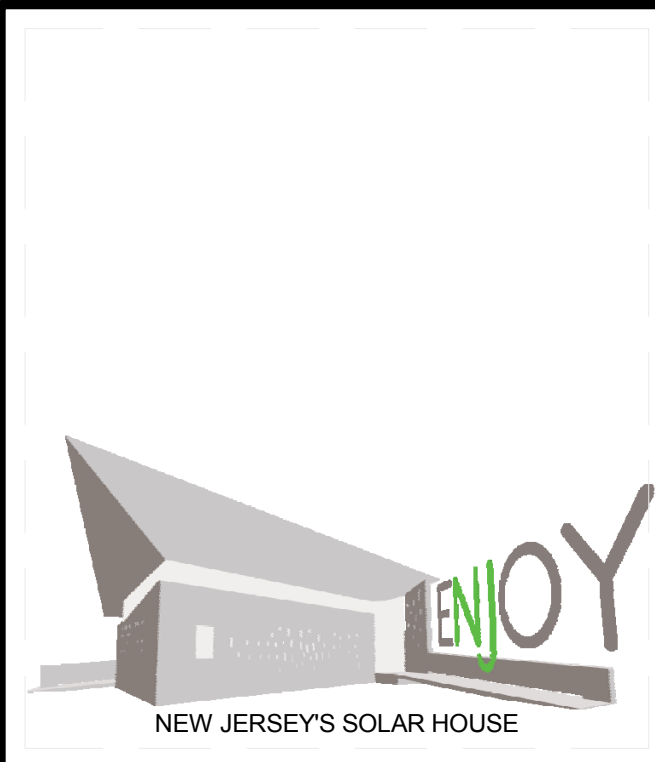




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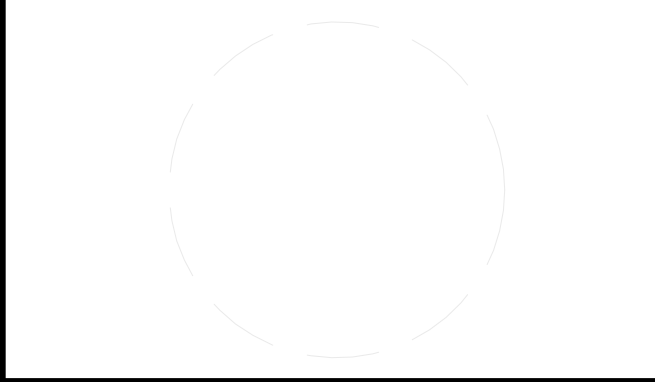
REFERENCE KEYNOTES

SHEET KEYNOTES



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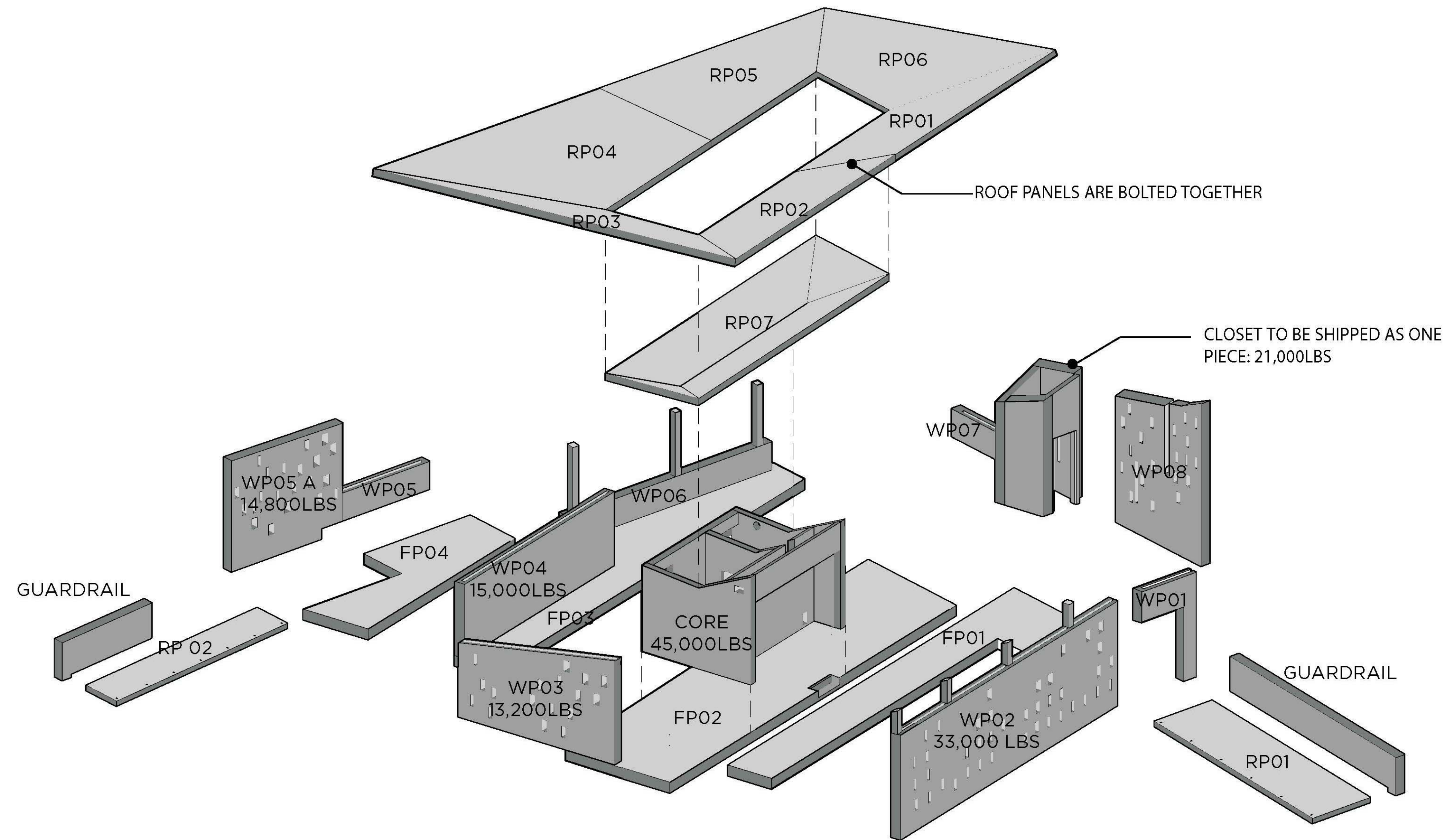
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**TRUCK LOADING DIAGRAM**

**O-602**

**(A1) TRUCK LOADING DIAGRAM**  
 1/2" = 1'-0"



TOTAL PIECE COUNT: 26  
 TOTAL WEIGHT: 484,714 LBS

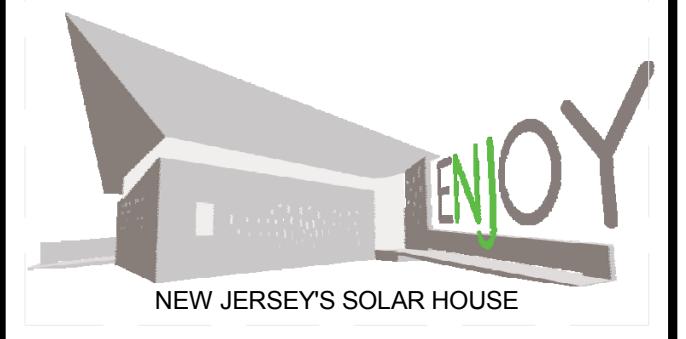


**A1** SHIPPING MODULES  
 1/2" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

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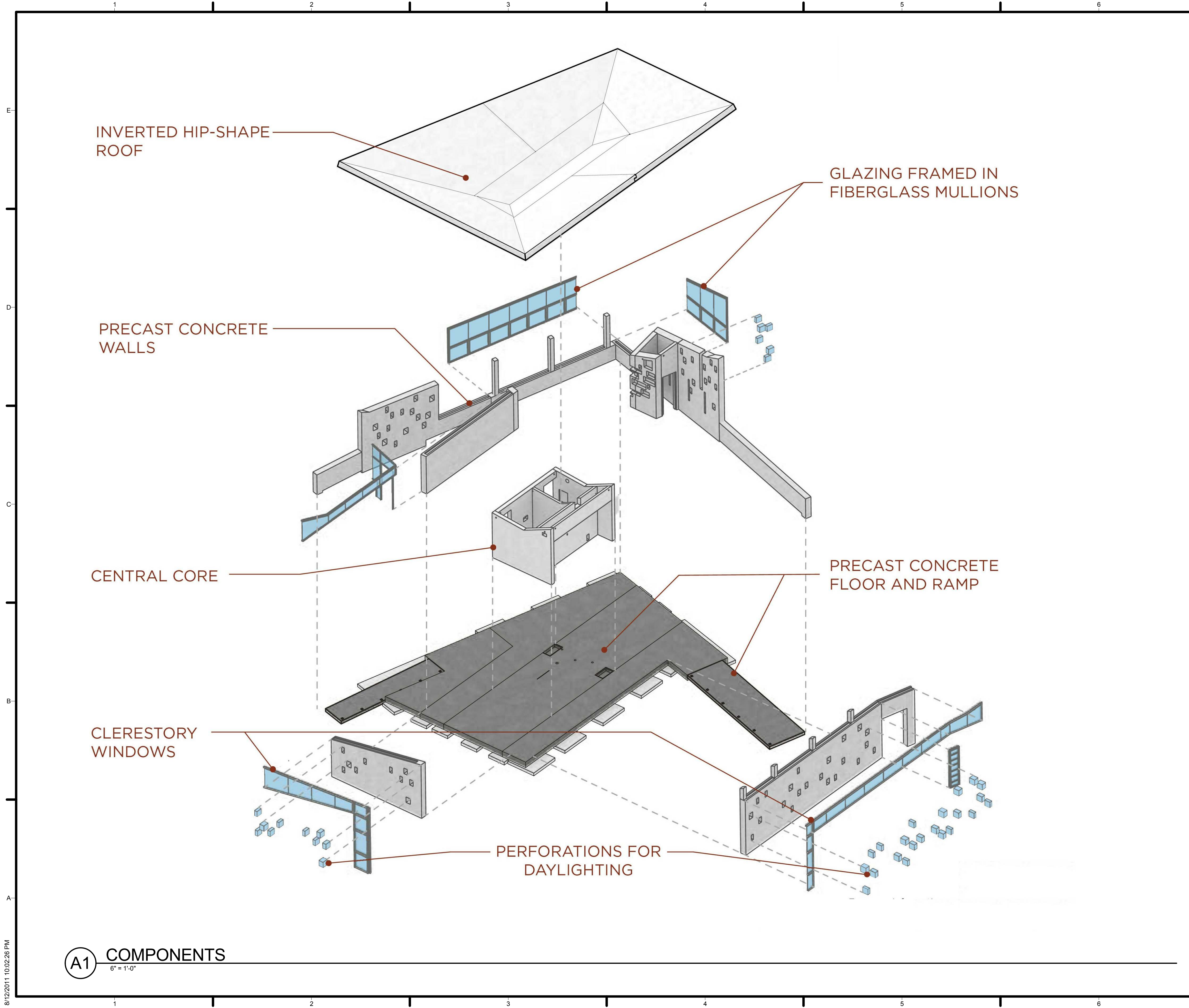
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**CONCRETE SHIPPING MODULES**

**O-901**

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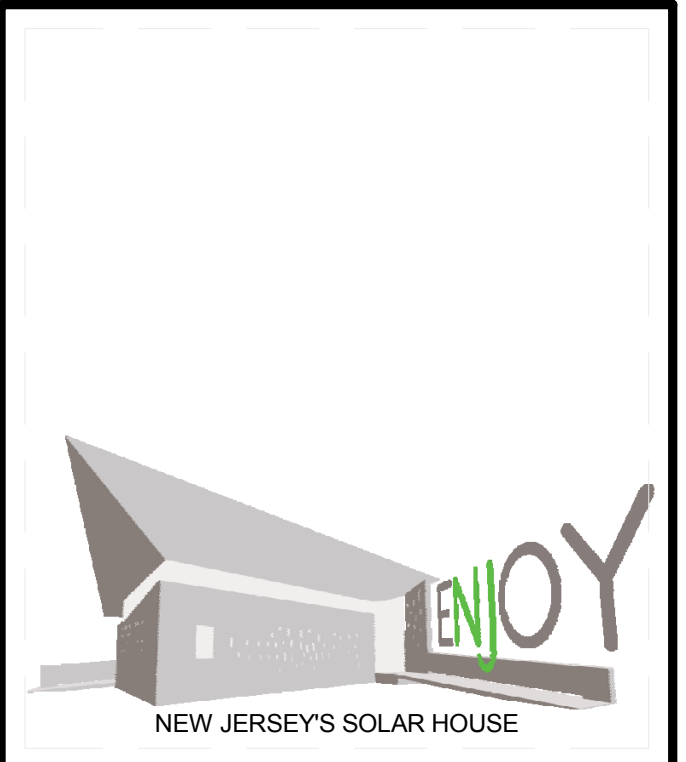




GENERAL SHEET NOTES

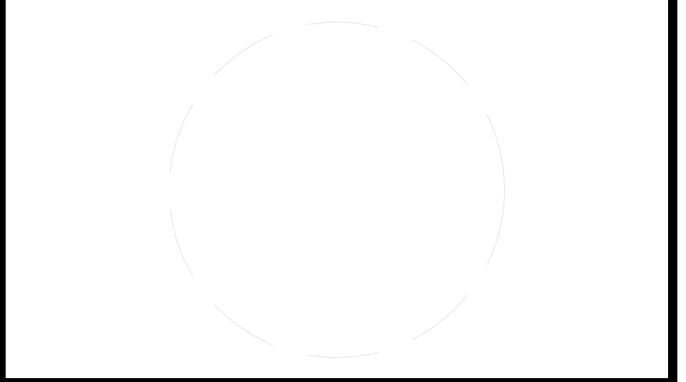
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SHEET TITLE  
**COMPONENTS**

**O-902**

**A1 COMPONENTS**  
 6" = 1'-0"

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