

## GEORGIA TECH SOLAR DECATHLON 07



The Georgia Tech Solar Decathlon Team will design and construct a truly innovative house which harnesses and celebrates the sun's power. Integrating both architectural and engineering principles, it will seek to critically advance inventions in solar technology. Asking the following question: "Is the attainment of solar efficiency and comfort possible in the context of an ever increasing desire for spatial and architectural transparency?" As in the Greek tale of Daedalus' son Icarus who embarked on a flight to the sun, so too the modern fascination with building lighter and more transparent buildings is supposedly at odds with the need for energy conservation and ecological building. And yet, at no other time in the history of construction have advances in materials technology and systems design rendered Icarus' vision more realizable. It is to the exploration of this paradox that Project Icarus is dedicated.

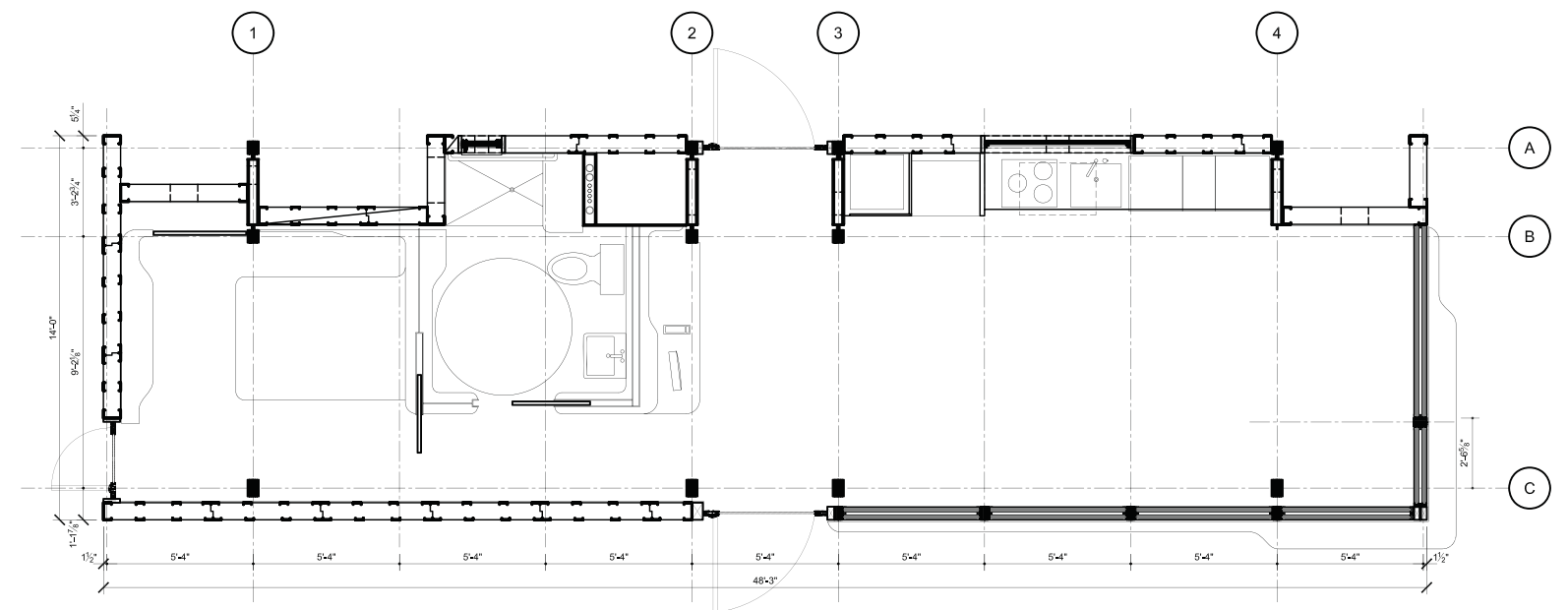
The Solar Decathlon is a project of the U.S. Department of Energy (DOE) in partnership with DOE's National Renewable Energy Laboratory.



## CONSTRUCTION DRAWINGS [REV]

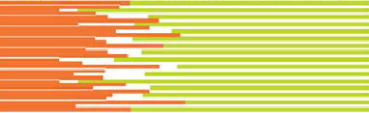
PROJECT ICARUS: "Sustaining Life with Light"

08.07.2007



## TEAM SPONSORS





	General
G.0.0	Cover Sheet
G.0.1	Drawing List
G.0.2	Physical Models
G.0.3	Prototypes
G.0.4	Building Structure
G.0.5	Digital Models
G.0.6	Analytical Drawings
G.0.7	Game Theory Model
	Chassis
C.1.0	Chassis Plan
C.2.0	Chassis Elevations
C.2.1	Chassis Details
C.2.2	Enlarged Chassis Elevation
	Transportation
T.1.0	Site Staging Timeline
T.1.0.a	Site Staging Timeline
T.1.1	Site Staging Operations
T.1.2	Site Staging Operations
	Landscape, Tour Route and Planting
L.1.0	Site Plan
L.2.0	Site Elevations
L.2.1	Site Elevations
L.2.2	Site Section
L.3.0	Tour Route
L.3.1	Tour Route Details
L.4.0	Decking Plan: Landscape
L.4.0.a	Decking Schedule Landscape
L.4.1	Decking Sections: South Face
L.4.2	Decking Sections: South Face
L.4.3	Decking Sections: South Face
L.4.4	Decking Sections: West Face
L.4.5	Decking Sections: North Face
L.4.6	Decking Sections: North Face
L.4.7	Decking Sections: North Face
L.4.8	Decking Sections: North Face
L.4.9	Decking Sections: North Face
L.4.10	Deching Sections: East Face
L.4.11	Decking Axonometric
L.5.0	Planting Plan
L.5.1	Landscape Details
L.5.2	Landscape Details
L.5.3	Landscape Details
L.5.4	Landscape Details
L.5.5	Landscape Details
	Architectural
A.1.0	Floor Plan
A.1.0.a	Area Calculations
A.1.0.b	Conditioned Area
A.1.1	Reflected Ceiling Plan
A.1.2	Roof Plan At ETFE
A.1.3	Roof Plan At PV Array
A.1.4	SIP Fabrication Plan ( Thermasteel)
A.1.4.a	SIP Fabrication Elevations ( Thermasteel)

A.1.4.b	SIP Fabrication Elevations ( Thermasteel)
A.1.4.c	SIP Fabrication Model (Thermasteel)
A.2.0	Exterior Elevations :South
A.2.1	Exterior Elevations: West
A.2.2	Exterior Elevations : North
A.2.3	Exterior Elevations : East
A.2.4	Exterior View: Southeast Corner
A.2.5	Exterior View: Aerial Southeast Corner
A.2.6	Exterior View: Southwest Corner
A.2.10	Duo-Gard Elevations
A.2.11	Duo-Gard Elevations
A.3.0	Longitudinal Section
A.3.1	Longitudinal Section
A.3.2	Cross Section
A.3.3	Cross Section
A.3.4	Cross Section
A.3.5	Cross Section
A.4.0	South Wall Sections (SIP & Door)
A.4.1	South \$ East Wall Sections - Kalwall
A.4.2	North Wall Section - Mech & Kitchen
A.4.3	West Wall Sections - SIP & Door
A.4.4	North Wall Section -
A.4.20	Rainscreen Section Details Connections
A.4.21	Rainscreen Section Details Connections
A.4.22	Rainscreen Section Details Connections
A.5.0	Floor Plan Details: Key Plan
A.5.1	SIP Abutment Details - North Wall
A.5.2	SIP Abutment Details - North Wall
A.5.3	SIP Abutment Details - North Wall
A.5.4	SIP Abutment Details - North Wall
A.5.5	SIP Abutment Details - North Wall
A.5.6	SIP Abutment Details - North Wall
A.5.7	SIP Abutment Details
A.5.8	Kalwall Abutment Details
A.5.9	Kalwall- Door Joint Detail - South Wall
A.5.10	SIP - PV Joint Detail - South Wall
A.5.11	SIP- PV Joint Detail - South Wall
A.6.0	ETFE Roof Details
A.6.0.a	ETFE Rainscreen Roof Plan
A.6.0.b	Reflected Ceiling Plan @ Aerogel/ETFE
A.6.1	ETFE Roof Details
A.6.2	ETFE Roof Details
A.6.3	ETFE Roof Details
A.6.4	ETFE Roof Drainage Details
A.6.5	ETFE Roof Details
A.6.6	ETFE Roof Details
A.6.7	ETFE Roof Details
A.6.8	ETFE Roof Details
A.6.9	ETFE Roof Details
A.6.10	ETFE Roof Details
A.7.0	Photovoltaic Supports
A.7.1	Photovoltaic Supports
A.7.2	Photovoltaic Supports
A.7.3	Photovoltaic Supports
A.7.4	Photovoltaic Supports
A.7.5	PV Motion Details
A.7.6	PV Support Details

A.8.0	South Elevation: PV Panel
A.8.1	West Elevation
A.8.2	Wall Section: South SIP Wall
A.8.3	SIP Wall Details (Horizontal)
A.8.4	PV Connection Details (Vertical)
A.8.5	PV Connection Details
A.8.6	PV Connection Details
A.9.0	Floor Construction Details (South Wall)
A.9.1	Floor Construction Details (North Wall)
A.9.2	Floor Construction Details (South Wall)
A.9.3	Floor Construction Details (North Wall)
A.9.4	Floor Construction Details (East Wall)
A.9.5	Floor Construction Details (West Wall)
A.9.10	Clerestory Details
A.9.11	Clerestory Details
A.9.12	Clerestory Details
A.9.13	Clerestory Details
A.9.14	South Clerestory Detail
A.9.15	North Clerestory Detail
A.9.16	East Clerestory Detail
A.9.17	Kitchen and Bathroom Window Details
A.9.18	Wind Girt Flashing Details
A.9.19	Wind Girt Flashing Plan
A.9.20	Flashing Typical Production Details
A.9.21	Flashing Typical Production Details
A.9.22	Columnette Cover Production Details
A.9.23	Columnette Cover Production Details
A.9.24	South Entrance Door
A.9.25	North Entrance Door
A.9.26	West Bedroom Door
A.9.27	Window Elevation Details
A.10.1	Interior View: bedroom
A.10.2	Interior View: living space and kitchen
A.10.3	Interior Elevation- Looking North
A.10.4	Interior Elevation Looking South
A.10.5	Interior Elevation: Longitudinal South
A.10.10	Bedroom Plan
A.10.11	Bedroom West Elevation
A.10.12	Bedroom North Elevation
A.10.13	Bedroom East Elevation
A.10.14	Bedroom South Elevation
A.10.15	Bedroom: Bed Drawer Detail
A.10.16	Bedroom: Closet Section Detail
A.10.17	Bedroom Cable Connection Detail
A.10.18	Bedroom: Wall Anchor Detail
A.10.20	Bathroom Plan
A.10.21	Bathroom Interior Elevations North
A.10.22	Bathroom Interior Elevations South
A.10.23	Bathroom Interior Elevations East
A.10.24	Bathroom Interior Elevations West
A.10.25	Bathroom Details
A.10.26	Bathroom Details
A.10.27	Bathroom Hardware Schedule
A.10.30	Home Office Plan
A.10.31	Digitally Fabricated Interiors
A.10.32	Digitally Fabricated Interiors
A.10.40	Kitchen Plan
A.10.41	Interior Elevation Kitchen
A.10.42	Kitchen Sections
A.10.43	Kitchen Cabinet Details
A.10.44	Kitchen Hardware Schedule

A.10.45	Kitchen & Bathroom Equipment List
A.10.46	Furniture Plan and Schedule
A.10.47	Finish Schedule
A.10.50	ADA Design Integration: Bedroom Layout
A.10.51	ADA Design Integration: Bathroom Layout
A.10.52	ADA Design Integration: Home Office
A.10.53	ADA Design Integration: Kitchen Layout
	Digital Manufacturing
D.1.0	Digitally Fabricated Interiors
D.1.1	Digitally Fabricated Interiors
D.1.2	Digitally Fabricated Interiors
D.1.3	Digitally Fabricated Interiors
D.1.4	Digitally Fabricated Interiors
D.2.0	Digitally Fabricated Interiors
D.2.1	Bathroom Interior Details
D.2.2	Bathroom Interior Details
D.2.3	Office Plumbing Manifold Details
D.2.4	Office Plumbing Manifold Details
D.2.5	Office Plumbing Manifold Details
D.2.6	Office Plumbing Manifold Details
D.3.0	Connection Details
D.3.1	Connection Details
D.3.2	Connection Details
D.3.3	Connection Details
D.4.0	Fabrication Sheets
D.4.1	Fabrication Sheets
D.4.2	Fabrication Sheets
	Exhibition Design
ID.1.0	Exhibition Plan
ID.1.1	Exhibition Entrance Wall
ID.1.2	Exhibition Entrance Panels
ID.1.3	Exhbitio Deck Panels
ID.1.4	Exhibition Interior
ID.1.5	Exhibition Interactive
	Structural
S.0.0	Structural General Notes
S.1.0	Pier Plan
S.1.0.a	Deck Framing Plan
S.1.1	Floor Framing Plan
S.1.1.a	Floor Wood Framing
S.1.2	Clerestory Framing Plan
S.1.3	Roof Framing Plan
S.2.0	Structural Frame Elevations
S.2.1	Structural Member Schedule
S.3.0	Structural Roof Details
S.3.1	Structural Details
S.3.2	Structural Details
S.3.3	Structural Floor Details
S.3.4	Structural Floor Details
S.3.5	Structural Roof Details
S.3.6	Structural Details
S.4.0	Structural Images
S.4.1	Structural Images
S.4.2	Structural Images
S.5.1	Hardwood Structural Members
S.5.2	C1 Column
S.5.3	C2 & C3 Columns
S.5.4	C4 Columnettes
S.5.5	B2 Beam

S.6.1	Steel C1 Column
S.6.2	Steel C2 & C3 Columns
S.6.3	Steel C4 Columnettes
S.6.4	Steel B2 Beams
S.6.5	Steel B3 Beams
S.7.1	Connection C2, C3 to Chassis
S.7.2	Connection C1 to Chassis
S.7.3	Connection C3 to B2
S.7.4	Connection C2 to B2
S.7.5	Connection C1 to B2
S.7.6	Connection B2 to B3
S.8.1	First Steel Order
S.8.2	Second Steel Order
S.8.3	Third Steel Order
S.8.4	Forth Steel Order
S.8.5	Fifth Steel Order
	Mechanical
M.0.0:	HVAC Schedule
M.1.1:	HVAC Control Loops
M.2.1:	HVAC Ventilation System
M.2.2:	HVAC Ventilation System
M.2.3:	HVAC Ventilation System
M.2.4:	HVAC Ventilation System
M.2.5:	HVAC Ventilation System
M.2.6:	HVAC Ventilation System
M.3.0:	Ductless Multi-split Heat Pump Plan
M.3.1:	Ductless Multi-split Heat Pump Section
	Electrical
E.0.0:	Electrical Notes/Legend
E.1.0:	PV Array
E.2.0:	Site Electrical
E.2.1:	Electrical Plan
E.2.2:	Smoke Detection System
E.2.3:	Smoke Detection System
E.2.4:	Lighting Plan
	Plumbing
P.1.0	Plumbing Supply Plan
P.2.0	Plumbing Distribution Plan
P.3.0	Plumbing Solar Collector Plan
P.4.0	Plumbing Waste Plan
P.5.0	Plumbing Irrigation Plan
P.6.0	Plumbing DOE Supply/Removal Plan
P.7.0	Plumbing Line Schematic
P.8.0	Plumbing Schematic: Solar Section
P.9.0	Plumbing Plan Overview

date

description

revision

consultants:



prepared by:

GT SD Team

date drawn:

08.05.07



scale: NTS

G.0.1

DRAWING LIST





date			
description			
revision			

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
GT SD Team  
date drawn:  
08.05.07

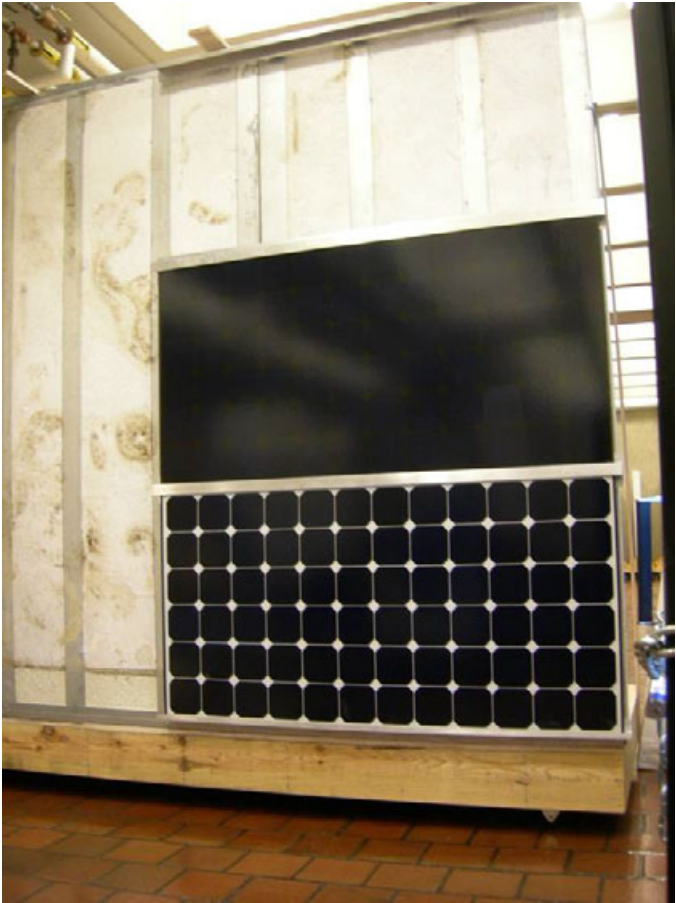


scale: NTS

PHYSICAL MODELS

G.0.2





date	
description	
revision	

consultants:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

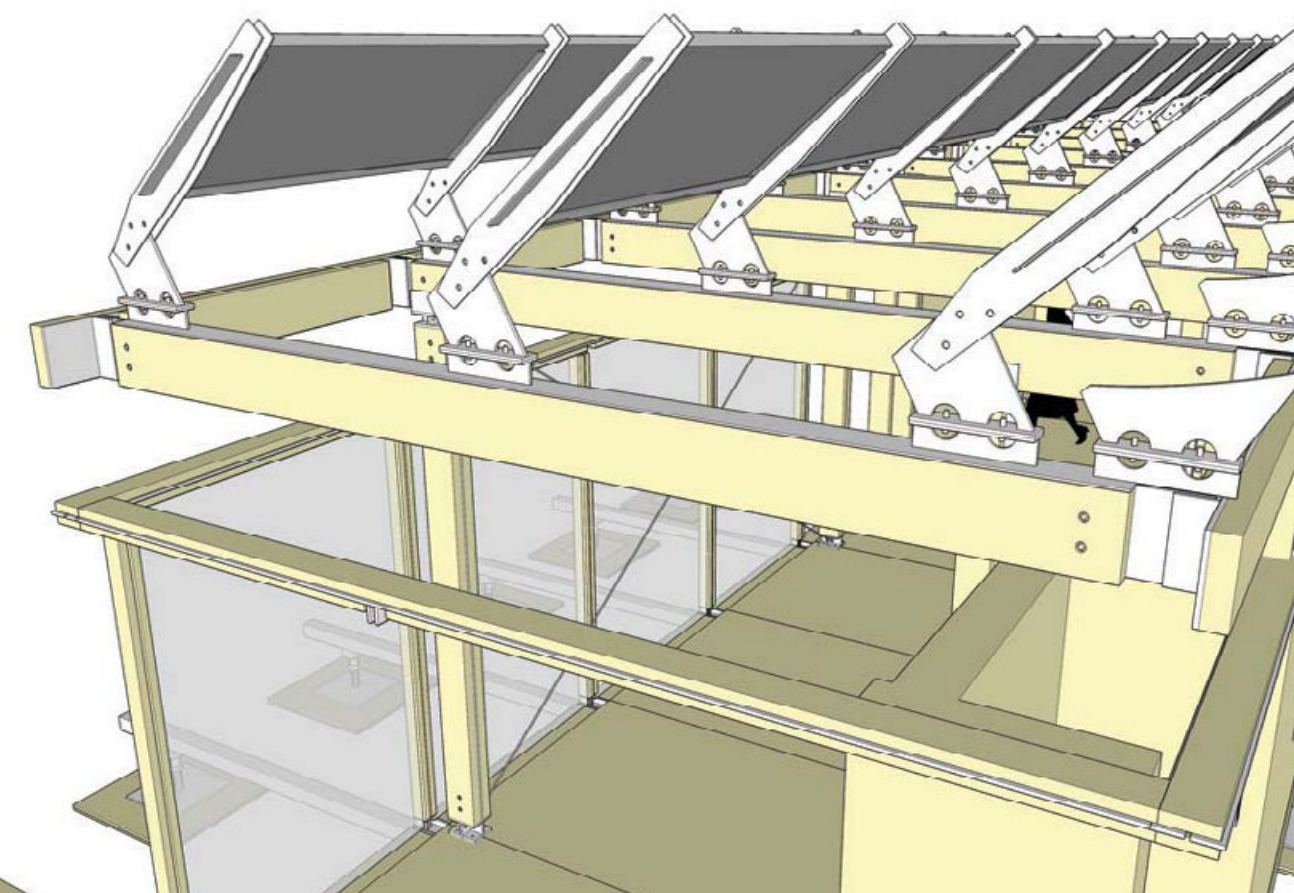
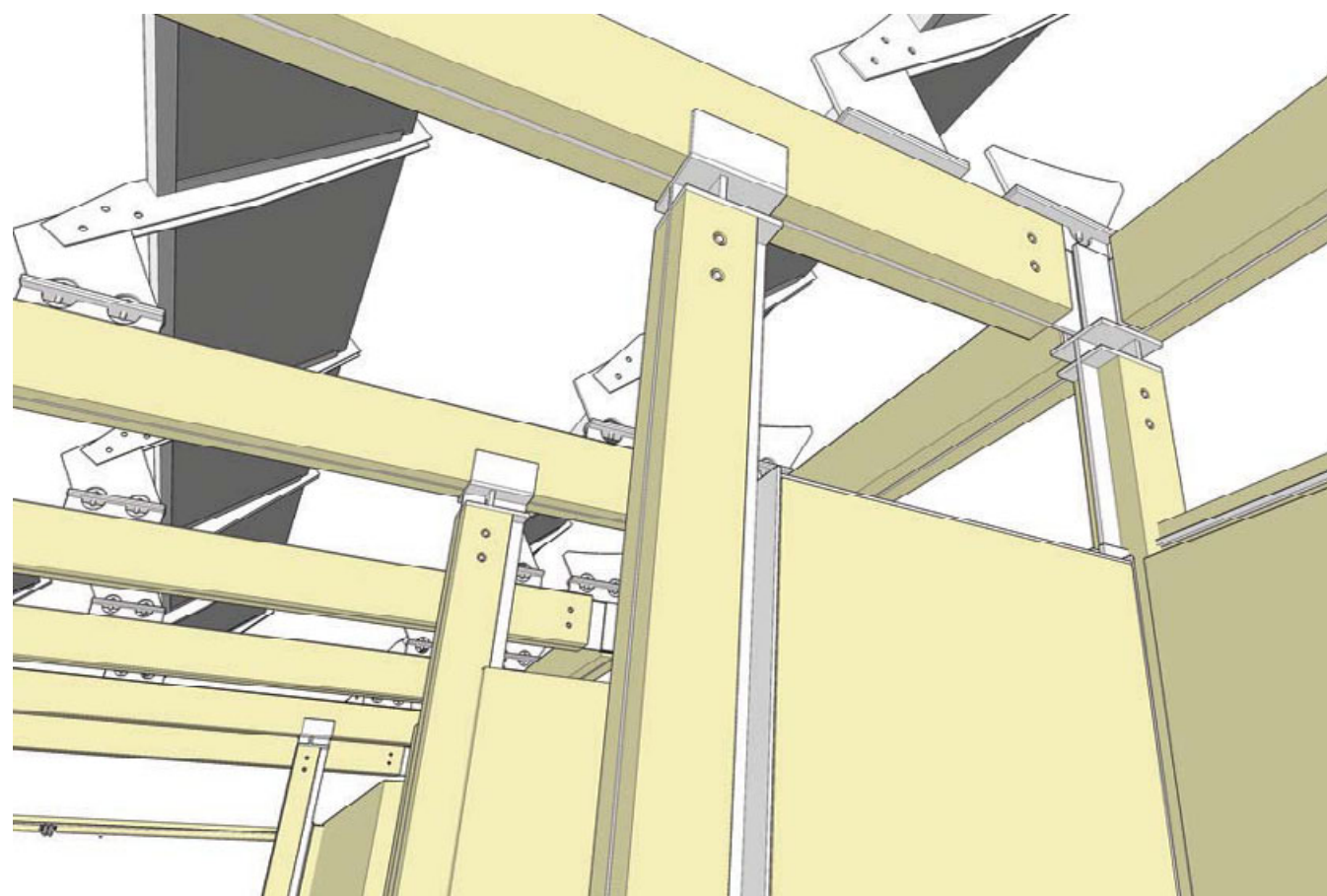
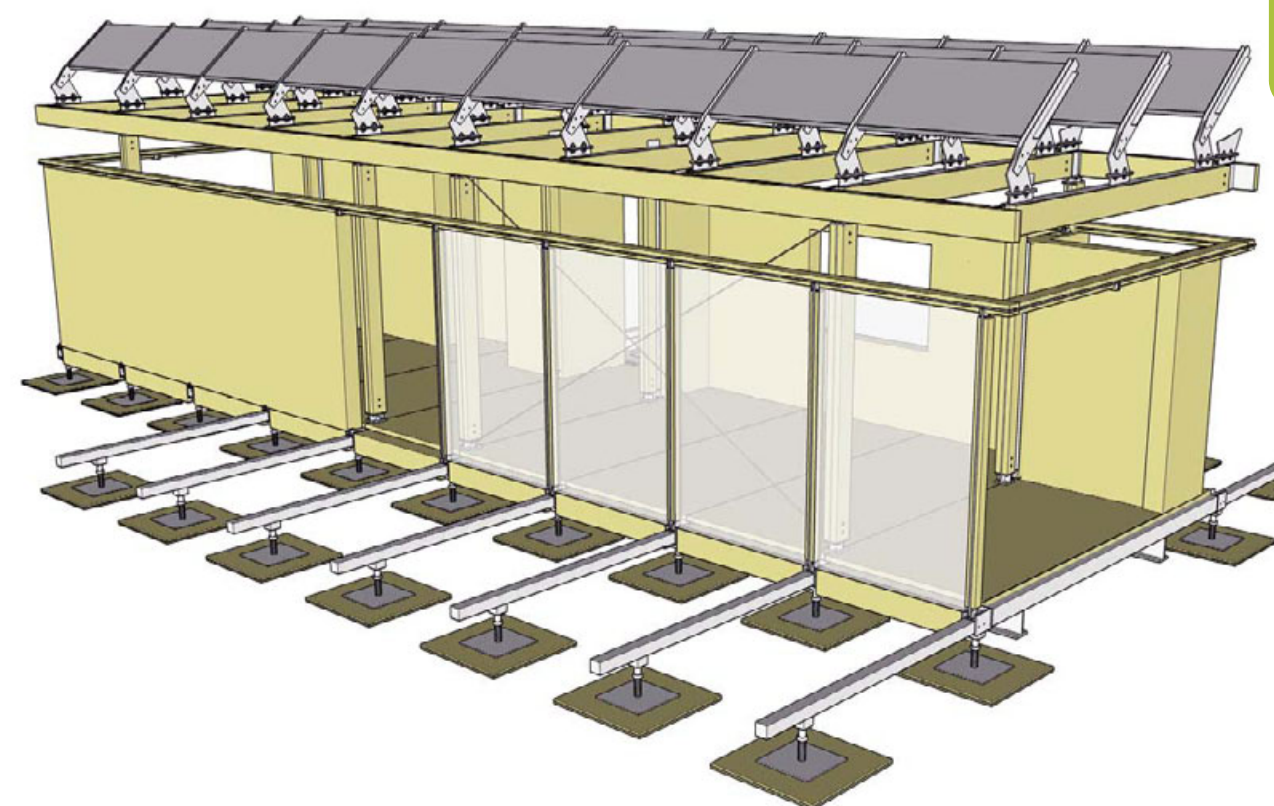
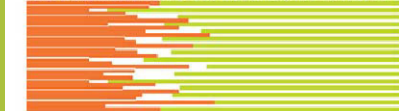


prepared by:  
**GT SD Team**  
date drawn:  
**08.05.07**



scale: **NTS**





date

description

revision

consultants:



prepared by:  
**Jamie O'Kelly**  
date drawn:  
**08.05.07**

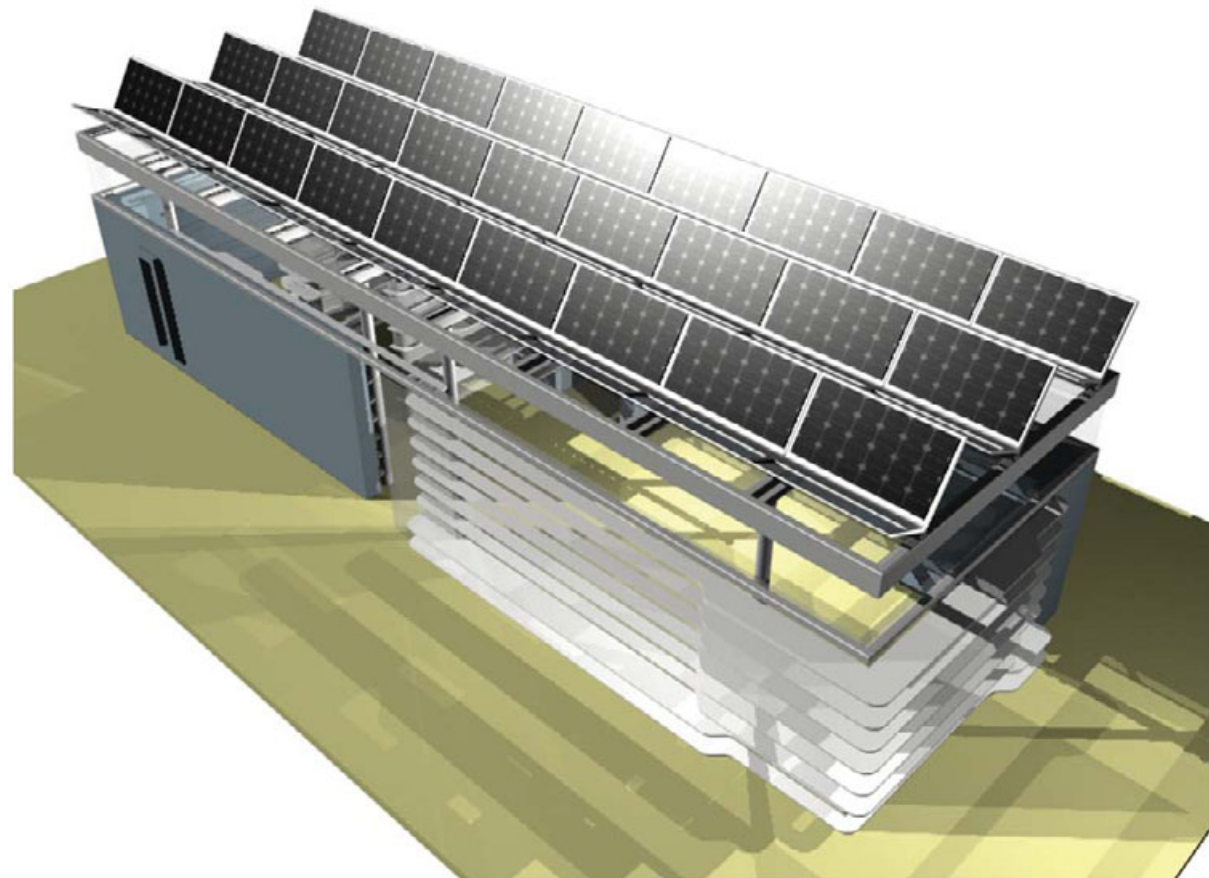
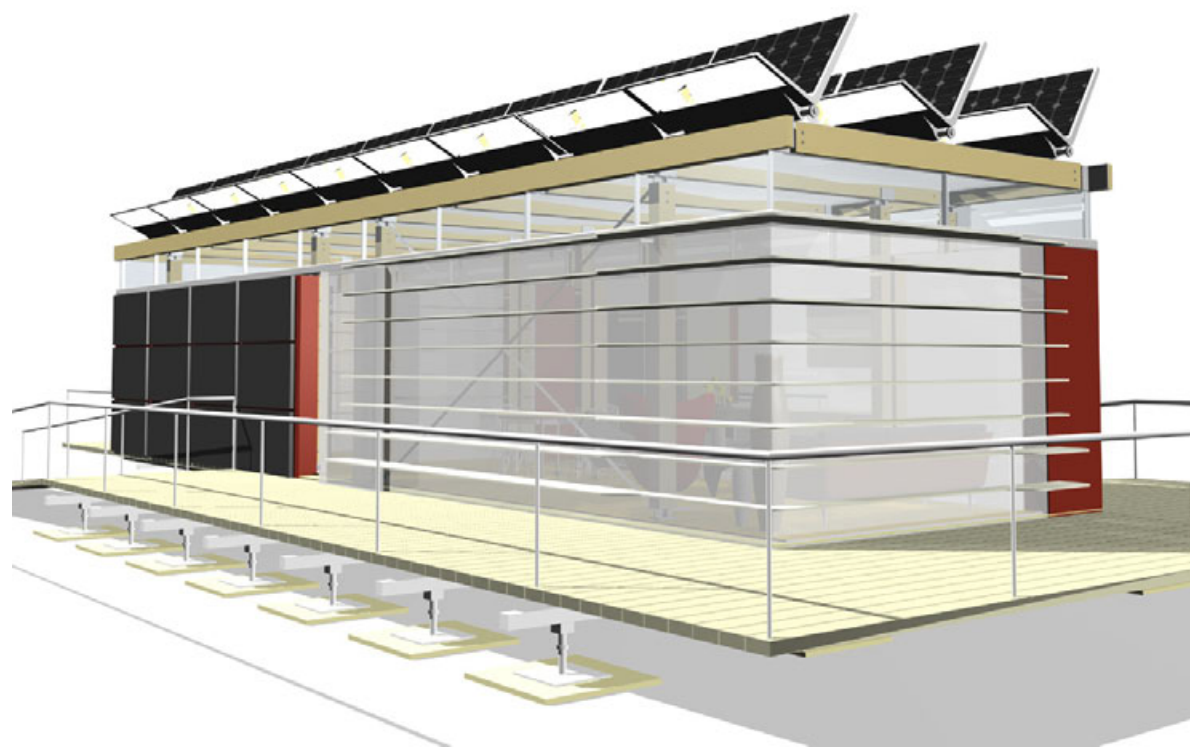
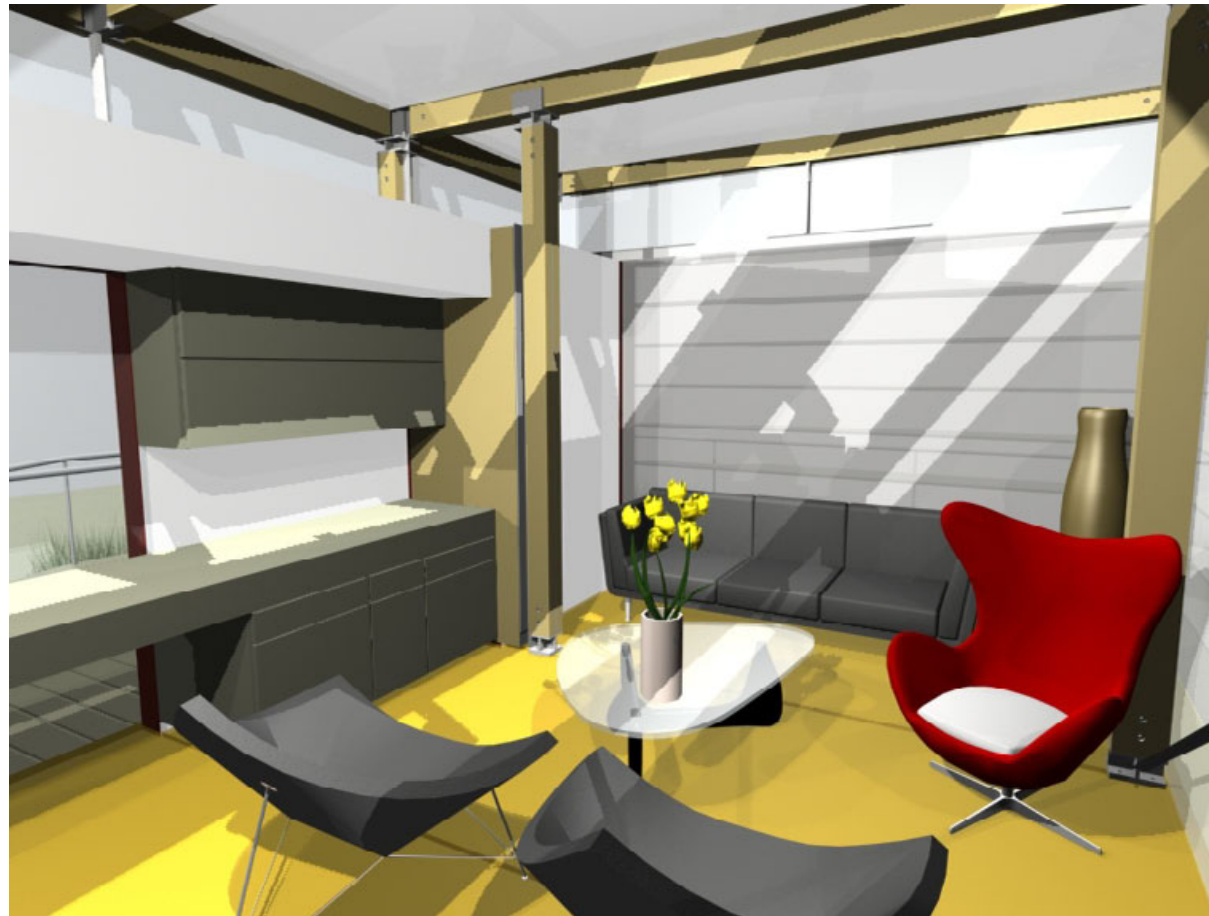


scale: **NTS**

**G.0.4**

**BUILDING STRUCTURE**





date	description	revision

consultants:

\_\_\_\_\_

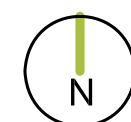
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Vishwadeep Deo**  
date drawn:  
**08.05.07**

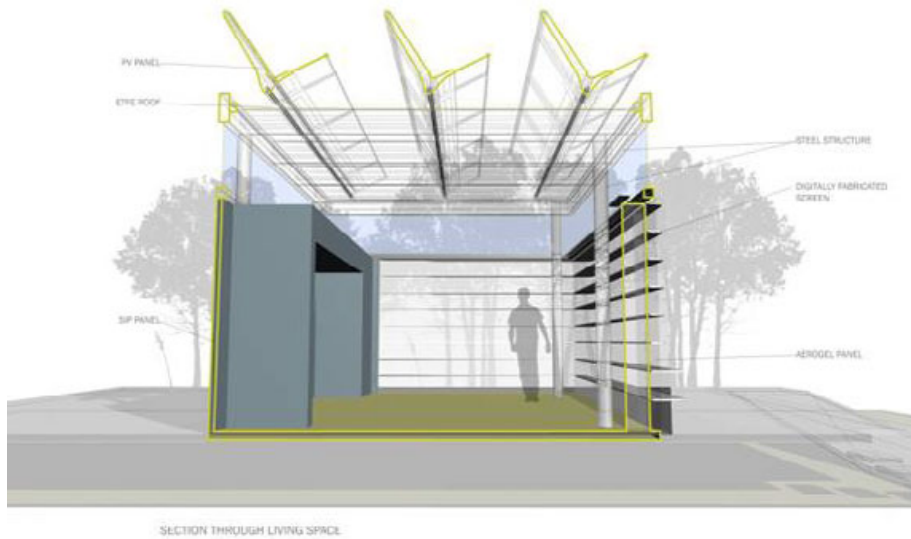
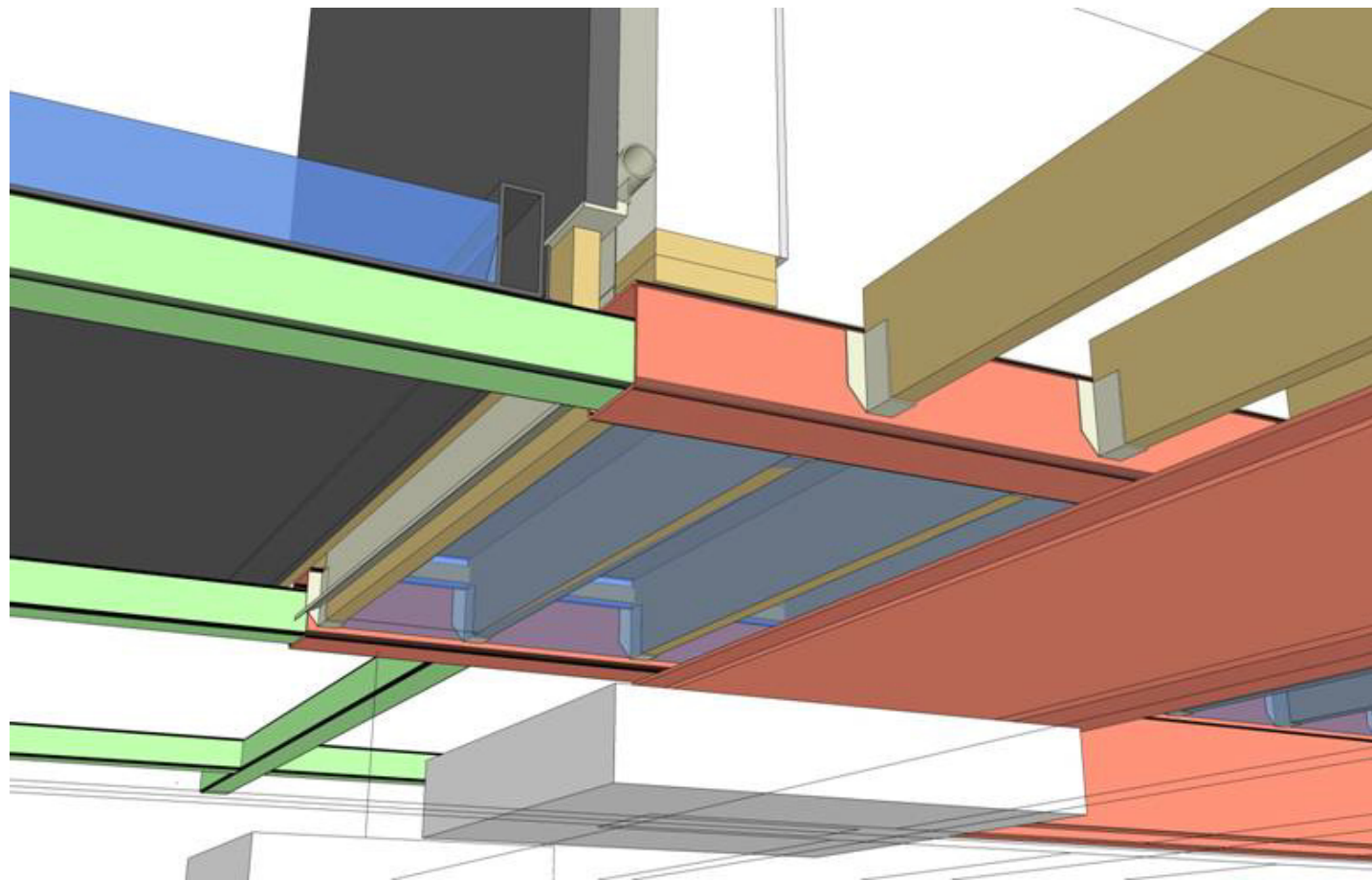
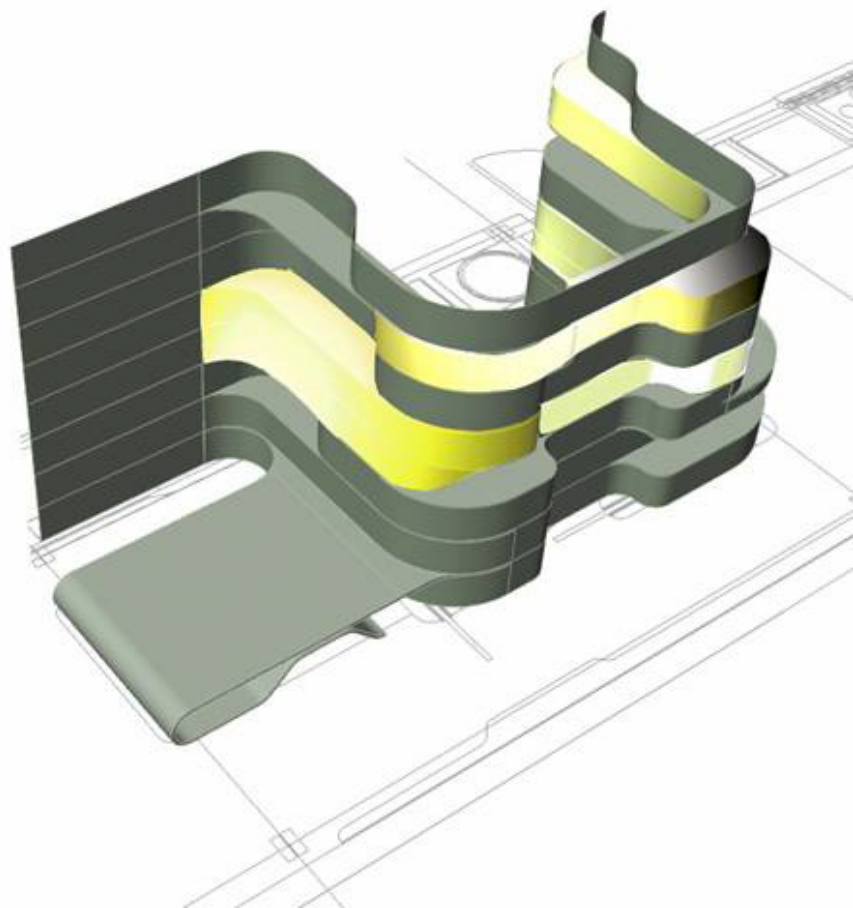
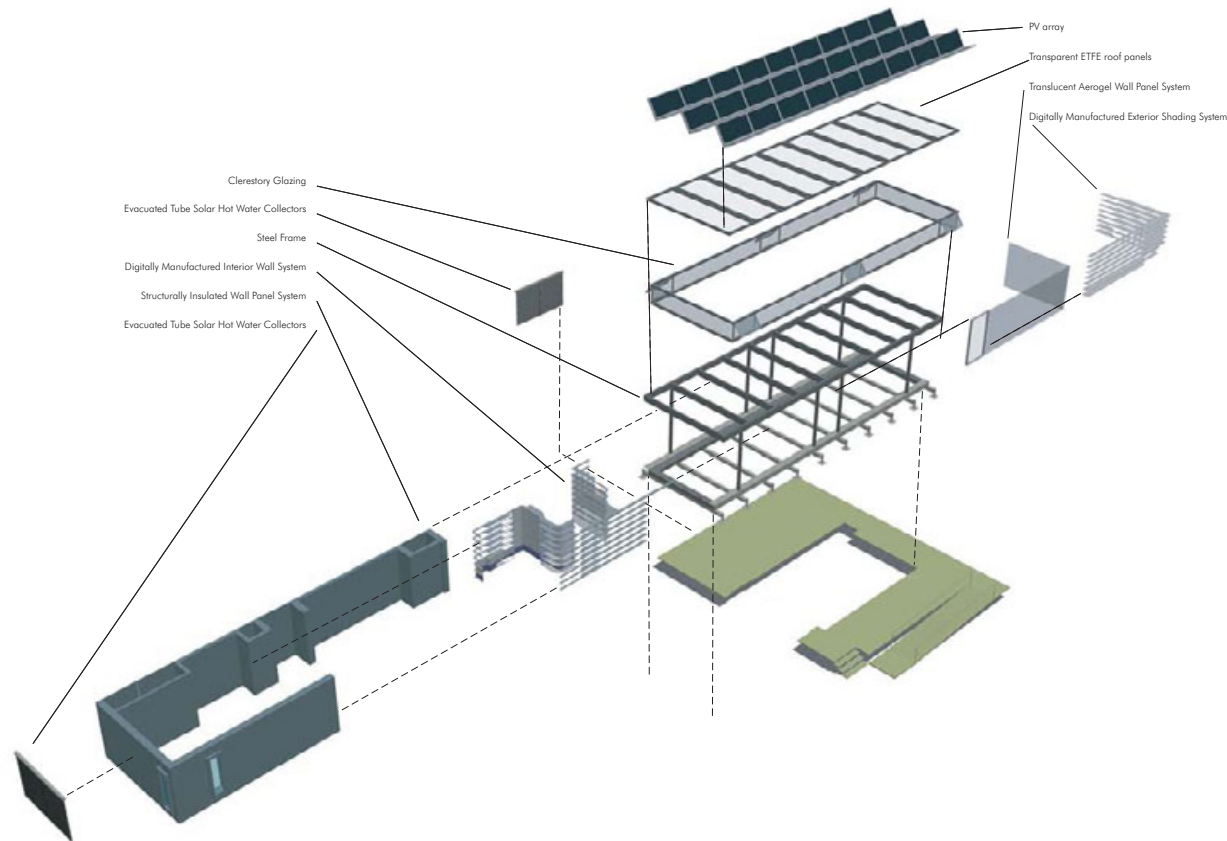
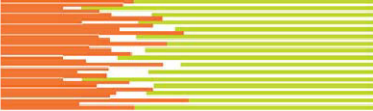


scale: **NTS**

**G.0.5**

DIGITAL MODELS





SECTION THROUGH LIVING SPACE

date

description

revision

consultants:



prepared by:  
**GT SD Team**  
date drawn:  
**08.05.07**

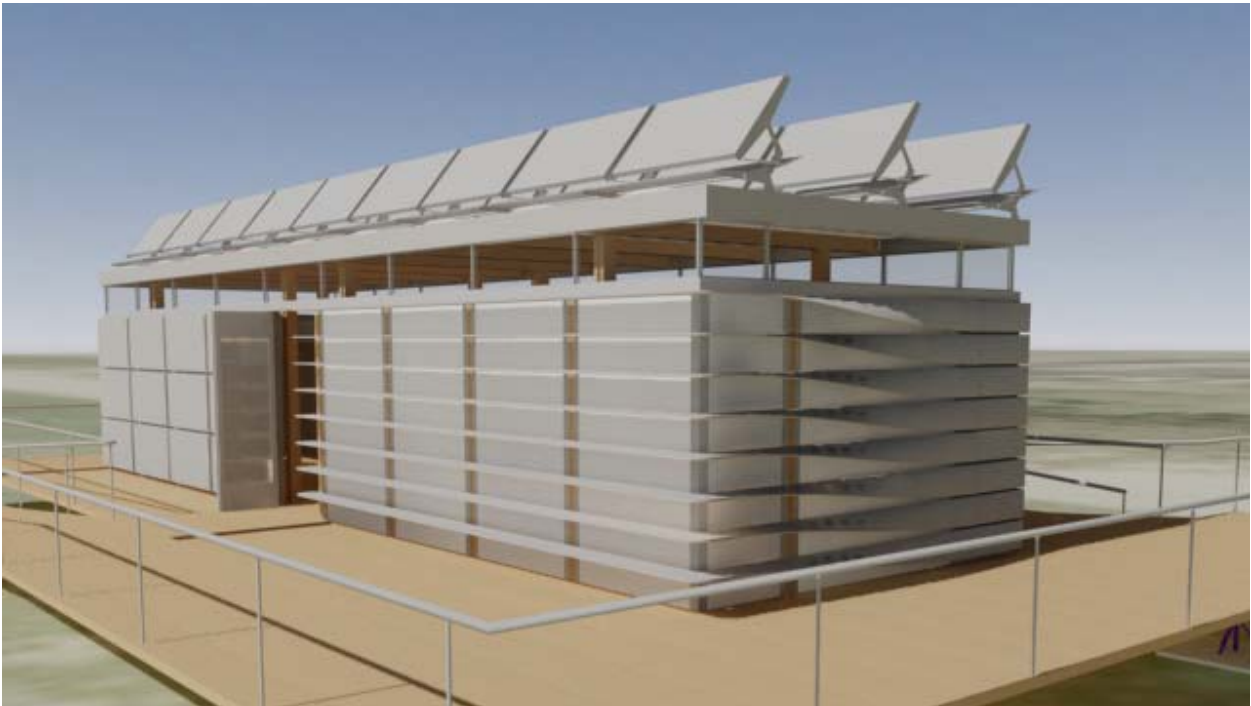
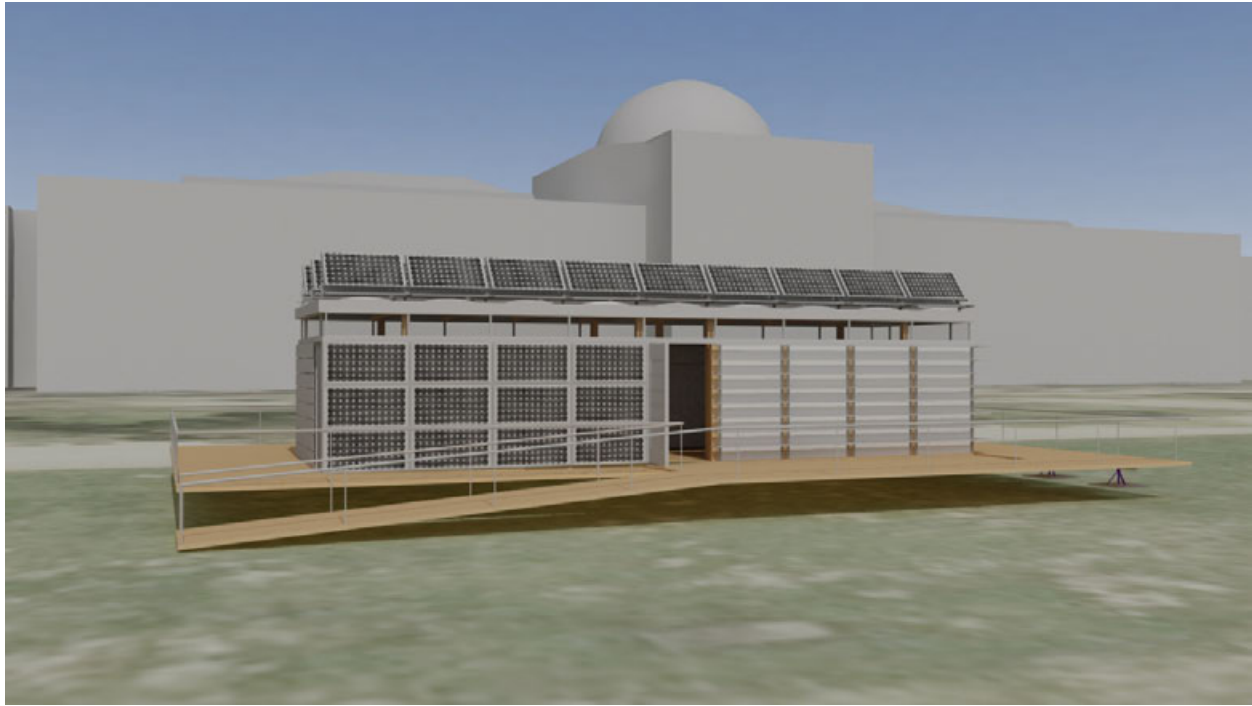
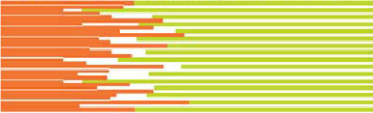


scale: **NTS**

ANALYTICAL MODELS

G.0.6





date

description

revision

consultants:



prepared by:  
Imagine Lab Staff  
date drawn:  
08.05.07

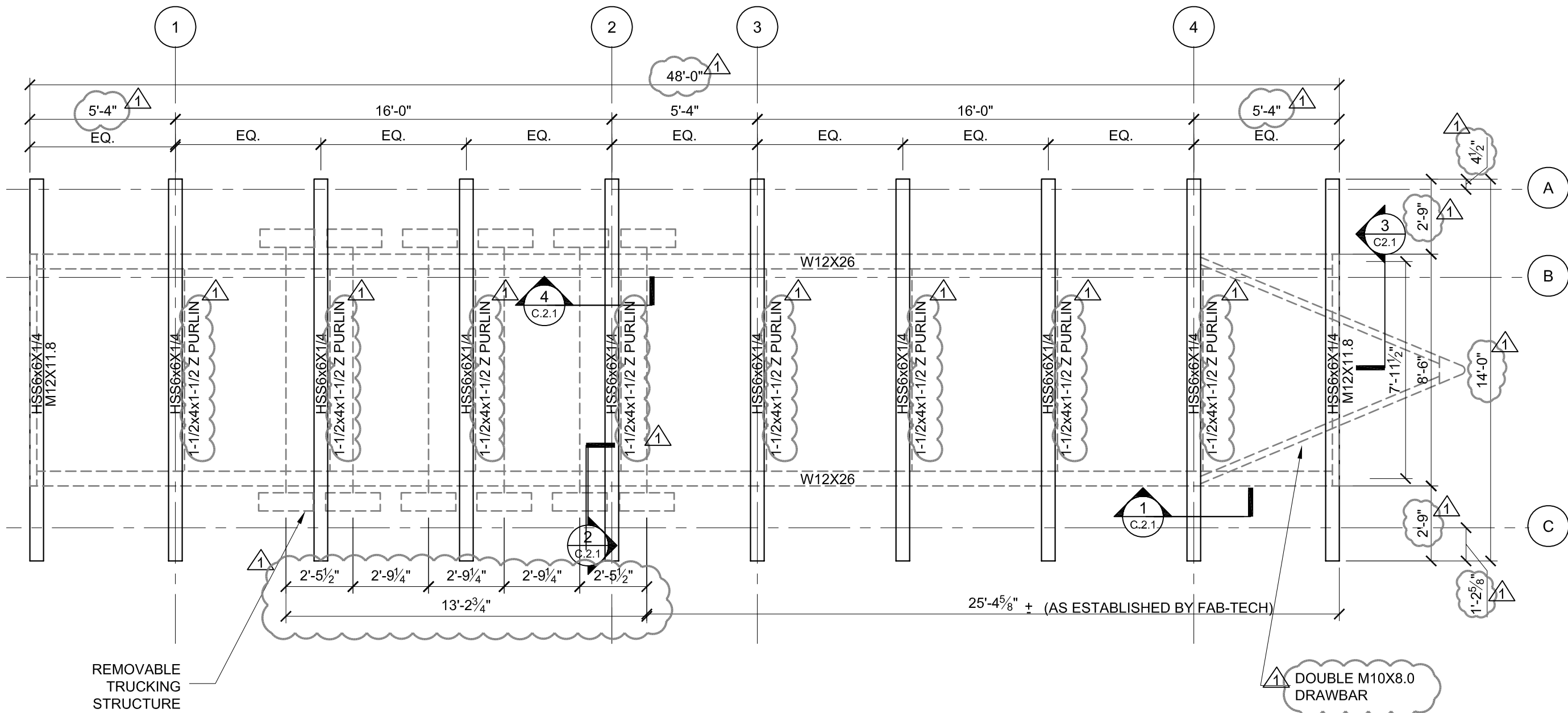
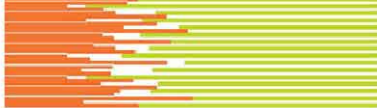


scale: NTS

G.0.7

GAME THEORY MODEL



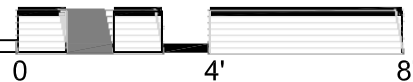


NOTES

1. FAB-TECH TO VERIFY THICKNESS OF ALL CHASSIS STRUCTURAL TUBING, EITHER 1/4" OR 3/8".

1  
C.1.0

CHASSIS PLAN



date	
description	PER FAB-TEC CONTRACT
revision	1

consultants:



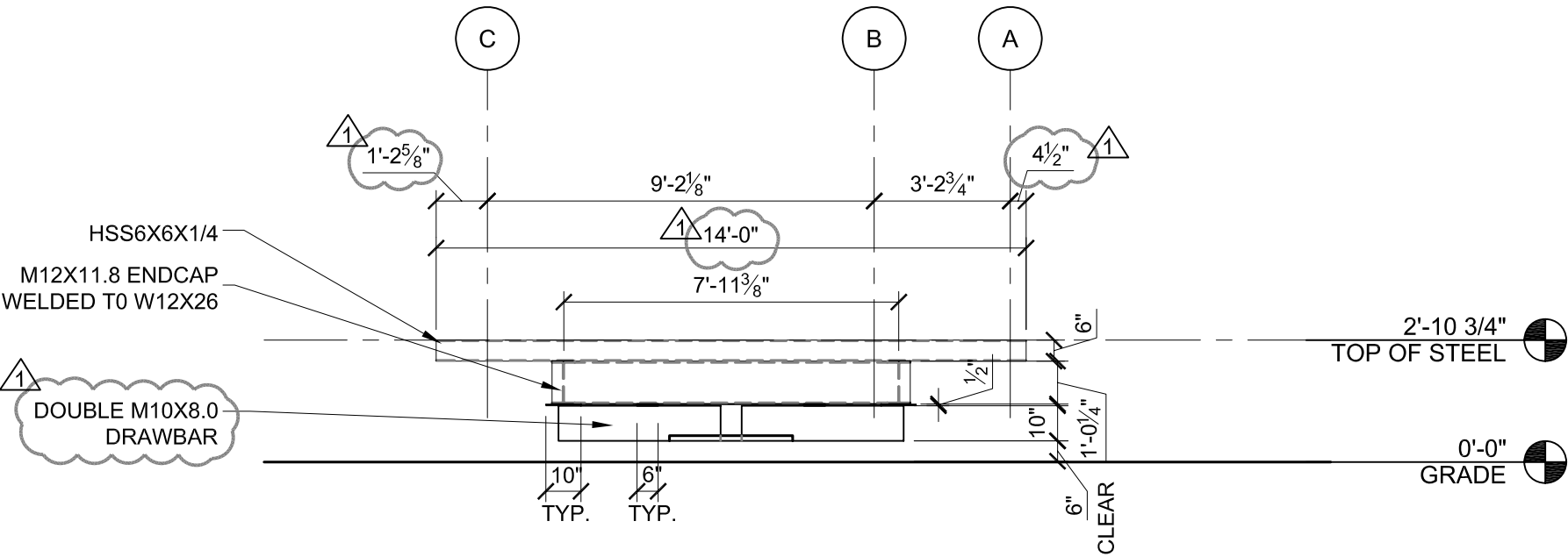
prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.06.07**



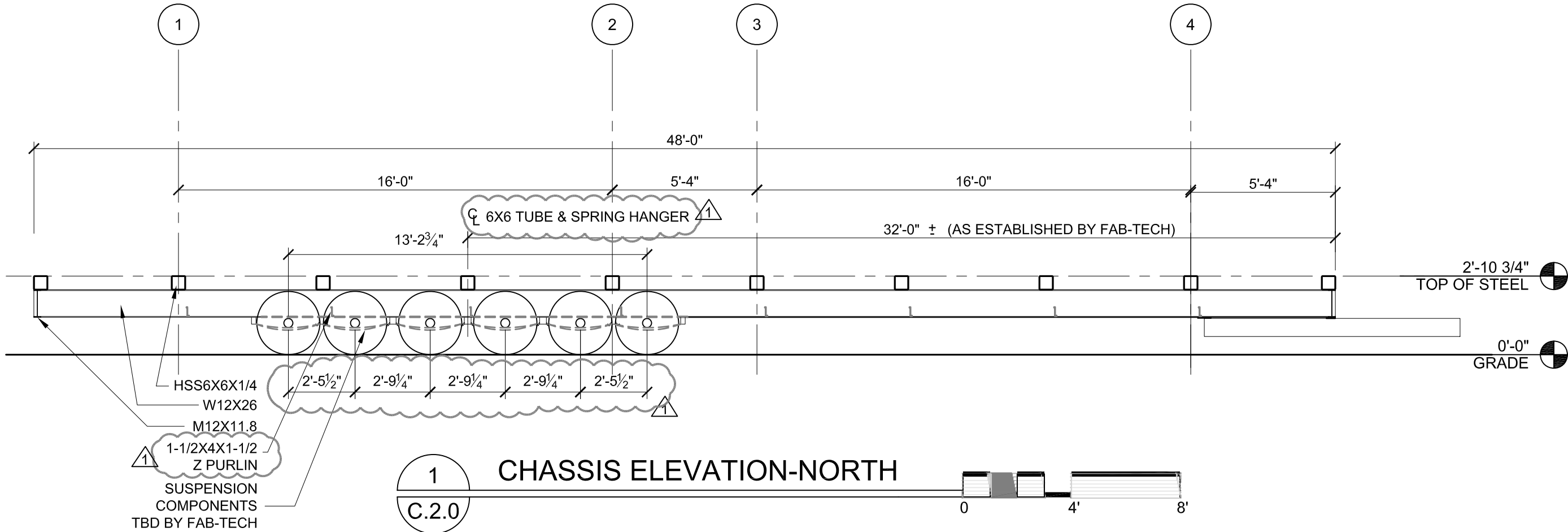
scale: 1/4"=1'-0"

C.1.0

CHASSIS PLAN



2 CHASSIS ELEVATION-EAST  
C.2.0



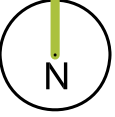
1 CHASSIS ELEVATION-NORTH  
C.2.0

date	
description	PER FAB-TEC CONTRACT
revision	1

consultants:



prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.06.07**

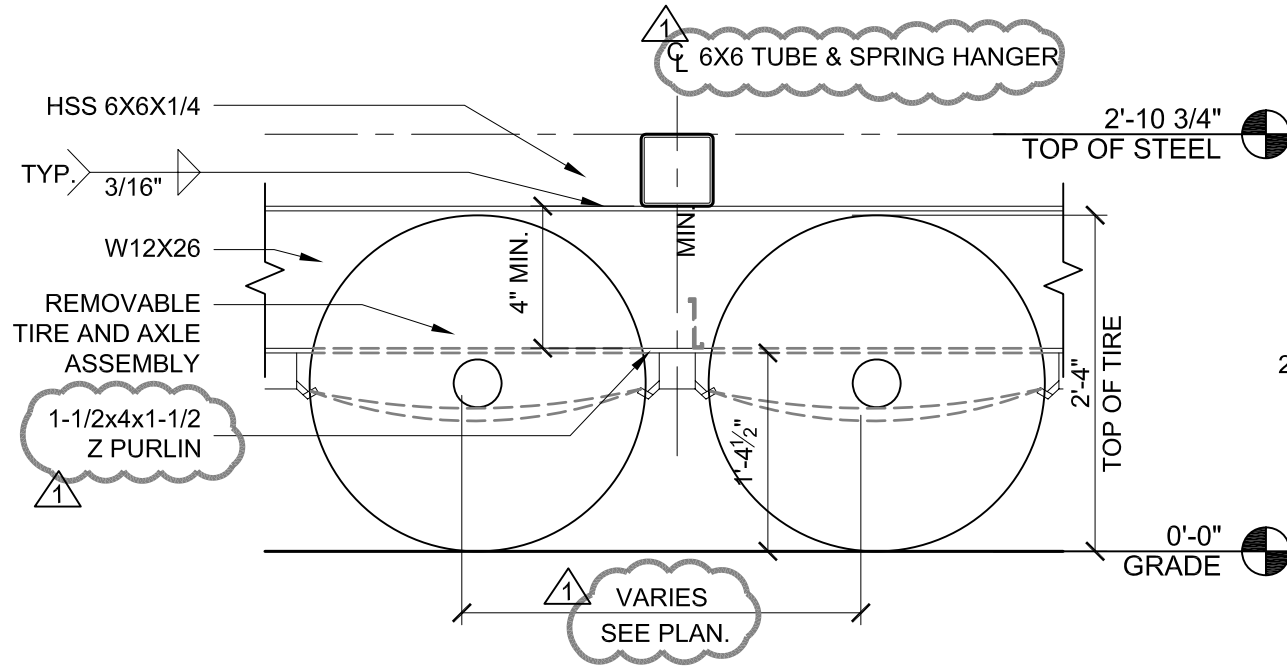


scale: **1/4"=1'-0"**

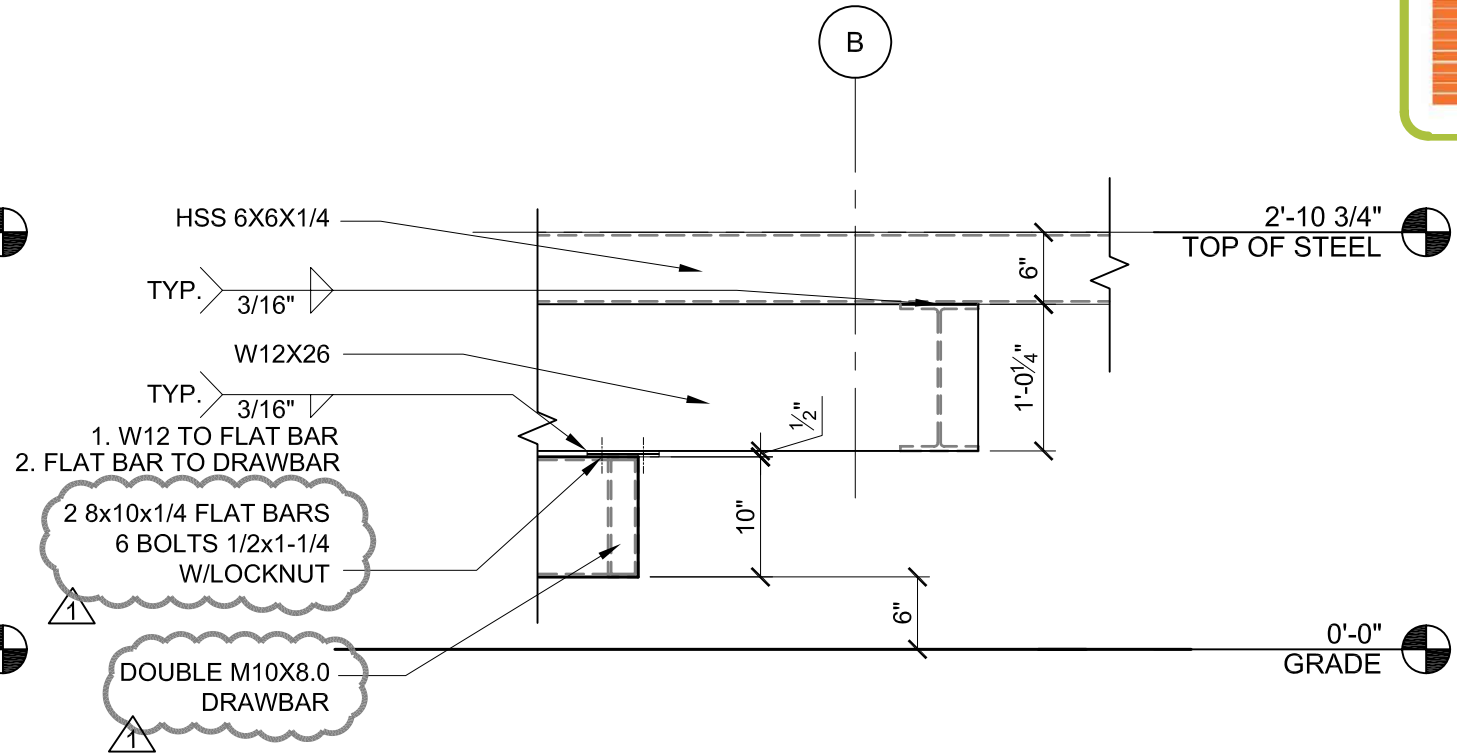
C.2.0

CHASSIS ELEVATIONS

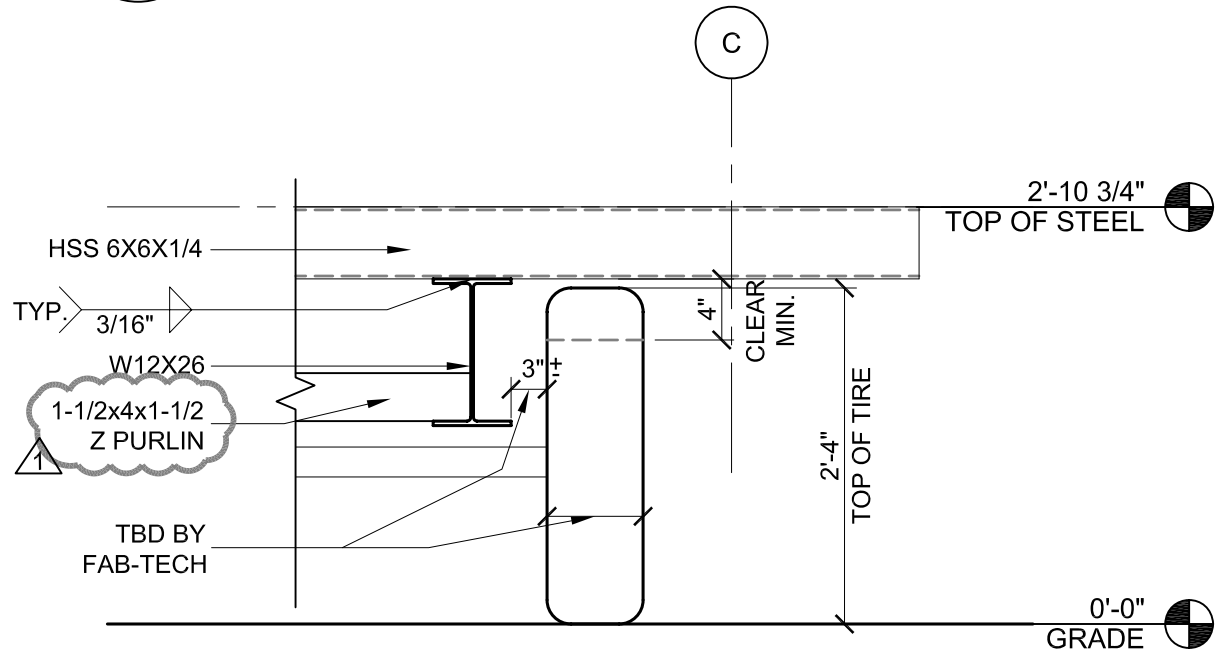




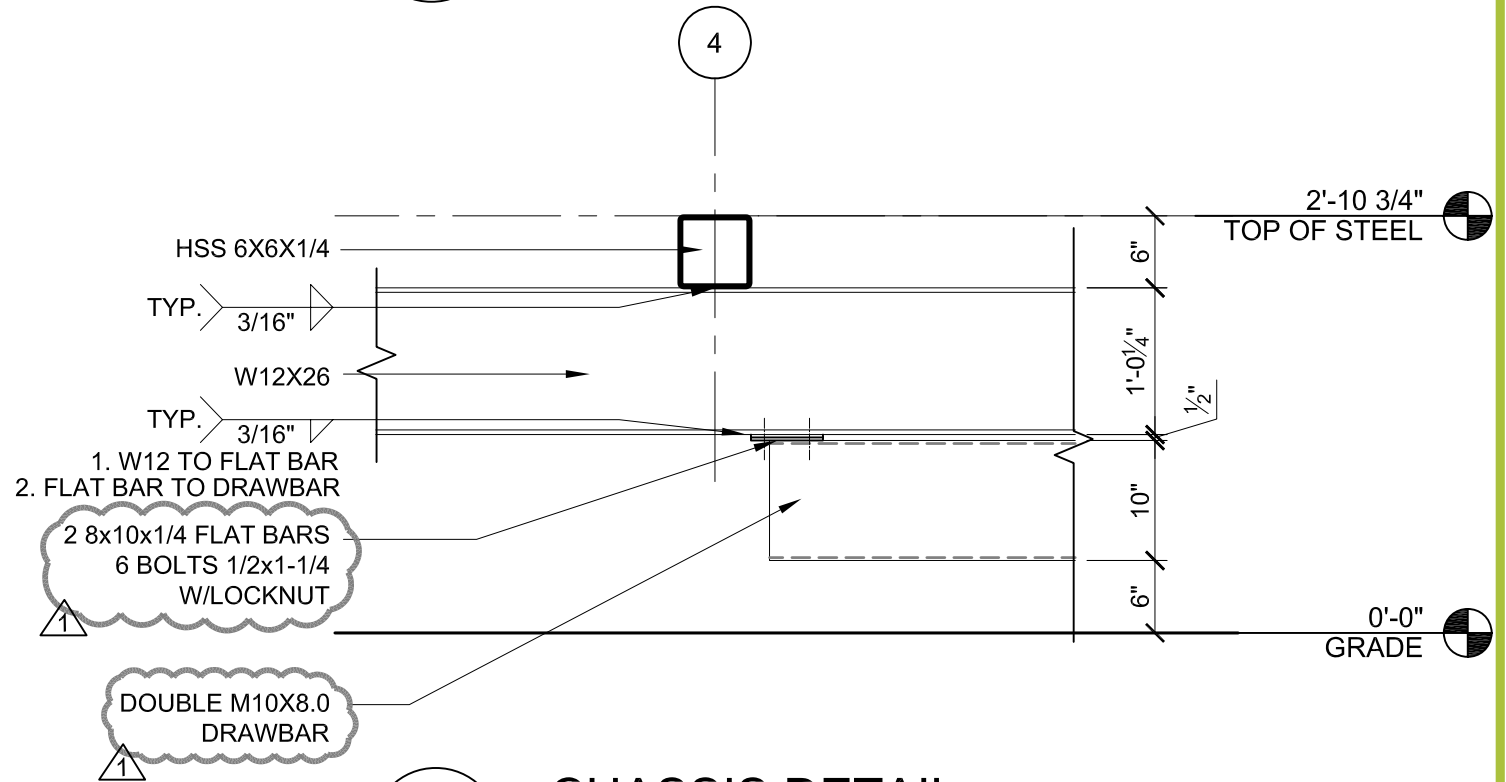
4 CHASSIS ELEVATION  
C.2.1 \*ALL WELDS TO BE VERIFIED BY FAB-TECH



3 CHASSIS ELEVATION  
C.2.1 \*ALL WELDS TO BE VERIFIED BY FAB-TECH



2 CHASSIS DETAIL  
C.2.1 \*ALL WELDS TO BE VERIFIED BY FAB-TECH



1 CHASSIS DETAIL  
C.2.1 \*ALL WELDS TO BE VERIFIED BY FAB-TECH

date	
description	PER FAB-TEC CONTRACT
revision	

consultants:



prepared by:  
C.VAN KLEY  
date drawn:  
3.06.07

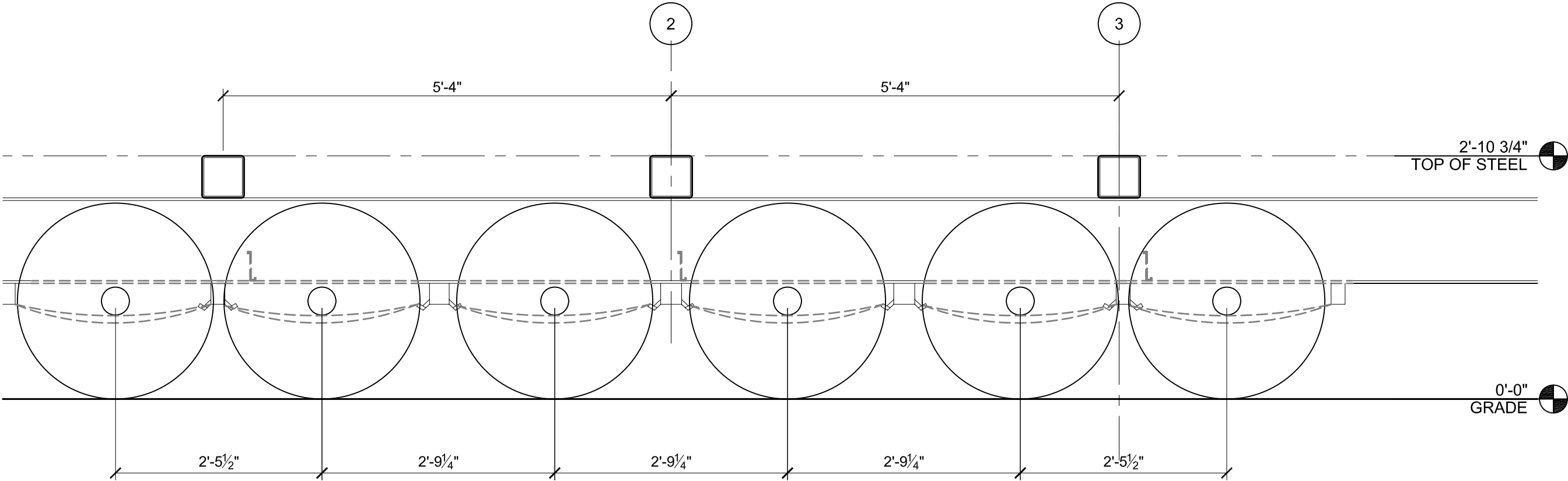


scale: 3/4"=1'-0"

C.2.1

CHASSIS DETAILS





revision	description	date
1	PER FAB-TEC CONTRACT	

consultants:



prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.26.07**



scale: **3/4"=1'-0"**

**C.2.2**

ENLARGED CHASSIS ELEVATION

Site Operations Plan  
Revised 08.07.07

This Site Operations Plan covers the following areas, as they are known to us today;

- 1. Vehicles
- 2. House Assembly Time line and Activities
- 3. House Disassembly Time Line and Activities
- 4. Special Equipment
- 5. Disposal or Recycling of Materials
- 6. PPE Requirements

1. VEHICLES

3 Vehicles: one for delivery of the house and two for delivery of support materials and equipment. All will enter together, house first and support trucks second.

a. Truck One: Cab + House

The truck pulling the house will be a semi-truck with cab. The house has a built-in chassis with six axles. This truck will carry only the house. It will enter the site first, and once the chassis is in position, the cab of this truck will drive away for the duration of the competition.

The overall dimensions of the house truck are:  
CAB + house = CAB + 14'-6" (wide) by 48'-6" (long) x 14'- 6" (high).  
The overall weight of this truck is approximately; CAB + 40,000 pounds.

It will have eight or nine axles: six on the house chassis and two or three on the cab.

b. Trucks Two and Three: All other items needed for the Competition  
One truck will be a Tractor-Trailer, the other a 17- foot closed box - panel trucks.

- Cargo Description
- Bottle jacks, and tie downs
  - Foundation pads and piers
  - Decking parquets, steel substructure, deck railing and planting
  - Power and hand tools
  - Solar panels, evacuated tubes, batteries
  - PV array support
  - Water tanks and Rain Water System
  - Solar car
  - Scaffolding
  - Furniture, small appliances, and household articles
  - Exhibition design panels
  - Control systems for the house not attached the house

The 2nd and 3rd trucks will follow the house directly onto site. As the house is positioned, the remaining trucks will arrive in position parallel to Decathlete Way but on our team's site, where the piers and jacks will be unloaded. The remaining trucks will stay onsite until the deck is assembled assuming dry conditions. Once the deck is assembled, all remaining components within the remaining trucks can be unloaded, either to be stacked on the deck itself, or loaded into the house. If conditions are wet, the trucks should stay onsite longer to allow for dry storage of all materials not yet unloaded.

The dimensions of the Tractor Trailer are: 53' (long) by 8' (wide) by 8' (high). Its weight is approximately: 40,000 pounds.  
The dimensions of the smaller panel truck are: 17' (long) by 8' ( wide) x 8' (high) .  
Its weight is under 15,000 pounds.

2. HOUSE ASSEMBLY TIME LINE AND ACTIVITIES

- Stage One – Arrival, All Teams working together (18 HRS)
- Stage Two – Three Separate Team working (24HRS)
- Stage Three – Final Walkthrough (10 HRS)

Stage One – Arrival- All Teams working together ( 18 HRS)

The house will arrive in one module that will be approximately 14'-6" wide by 48' long, weighing about 40,000 pounds. All other components are stored on the remaining trucks, with the car and water tanks being the largest modules. The remaining trucks will include a ramp for ease of unpacking.

1. Arrival (1 HR)

Enter Washington DC at midnight and proceed to staging area at the mall, awaiting turn to proceed to building site. Inspect house for damage due to travel. Note any repairs needed.

2. Site (1 HR)

Survey site for obstructions in the ground and grade differences. Ensure that site is cleared and ready to receive house. Place protective pads on ground along route for truck. Identify location of corner piers.

3. House Arrival (1 HR)

The house arrives on the site and drives into position. Bottle jacks secure the house temporarily. Cab drives away, wheels are removed from the chassis and stored on second truck during competition, and leveling of the house commences onto permanent piers.

4. Leveling (3HRS)

Piers will be housed in the remaining trucks which will follow the house onto the site. Once piers and foundation pads are placed beneath the chassis, they will be aligned with the steel plates welded to the underside of the chassis, ensuring proper alignment. If there are any obstructions, piers will be moved along the underside of the chassis into the secondary location and a steel receiving plate will be attached to the top of the pier and secured to the underside of the chassis. As soon as piers are in place, the house will be lowered and secured with bolted connections and tie downs. After all connections are inspected, construction will begin.

5. Solar Panel Array and Supports Installation (6HRS)

After chassis is leveled, scaffolding is erected around the house to aid in installation of solar panel array. Solar panel frames are attached to mounts already in place on the roof. Panels will then be lifted to the roof and installed by trained installers. All persons working on the roof will be equipped with proper fall protection and training. Individuals not working on the roof will maintain a safe distance and proceed with the unloading of the remaining trucks. Once all panels are installed and wiring completed, the scaffolding will be dismantled and stored on the second truck.

6. Deck Installation (6HRS)

The site will be surveyed and piers will be located in their proper placement. Once piers and foundation pads are in place, beams will be inserted into the end of the HSS members of the chassis and attached.

They will be temporarily braced on bottle jacks. Once beams are in place over piers, they will be individually lowered and attached to piers. Once all beams are in place and level, joists will be installed between beams. Deck sections will then be removed from the second truck and inserted onto the deck. After checking to ensure the deck is still level, ramps in the front and rear will be installed. All railings will be installed at this time, along with deck landscaping elements.

Stage Two – Three Separate Team Working (24 HRS )

- Team 1 Qualified Student Installers
- Team 2 Systems Team
- Teatm 3 Architecture Team

Team 1 Qualified Student Installers

1.a Solar Façade Panel and Battery Installation

The solar thermal loop is installed and checked. The façade PV panels are then installed and wired by qualified installers. After all panels are installed, the battery bank is installed beneath the deck. All connections will be checked at this time.

1.b Evacuated Tube Installation

The evacuated tubes will be installed on the rear deck by qualified installers and the system will be hooked up and tested.

Team 2 Systems Team

2.a Systems and Appliance Hookup and Installation

Any appliances and control equipment not included in the house during shipping will be installed at this time. All systems will be checked for operability and monitoring components will be checked as well.

2.b Plumbing Hookup

With chassis level and deck in place, the plumbing hookup can begin. Supply and waste tanks are located at the rear of the house, and rainwater catchment tanks are placed beneath the deck on the east and west. Plumbing lines and fittings are then installed and checked beneath the house and between the house and the tanks. The system is then filled with air to test for leaks and is then ready to receive water.

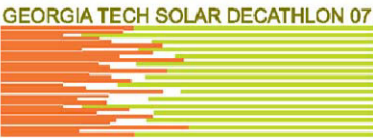
Team 3 Architecture Team

3.a Interior

Temporary crossbracing will be removed and stored in the second truck. Kitchen window bracing will be removed at this time. Furnishings will be installed after unpacking from the remaining trucks. The interiors will be cleaned to remove transportation dust and debris. Lighting is installed and tested. Touring information and displays within the house are installed.

3.b Exterior

Landscaping tanks and planters are installed around the deck. All planters are raised on blocks to protect the turf. The area is landscaped. The car is placed at the rear of the house until competition begins. Display signage is erected around the deck and along Decathlete Way. Exterior cladding not shipped on the house is also installed at this time, including exterior louvers.



date			
description			
revision			

consultants:



prepared by:

J. Mabry

date drawn:

08.05.07



scale: NTS

T.1.0

SITE STAGING TIMELINE



Site Operations Plan Continued  
Revised 08.07.07

**Stage Three - Final Walkthrough (10 HRS)**  
In time remaining, all systems components are rechecked for operability, PVs and batteries are inspected, water tanks checked, and any remaining issues are completed.

3. HOUSE DISASSEMBLY TIME LINE AND ACTIVITIES

**Stage One – Disassembly, Three Separate Teams (12 HRS)**  
**Stage Two – Departure, All Teams working together(10 HRS)**

The disassembly will be the reverse of the assembly plan. Several time consuming portions of the assembly plan will not be required during the disassembly, notably straightening of the interior of the house, placing of the landscaping, and most importantly, the time spent attempting to properly level the chassis and the decking components. Additionally, systems will only need to be disassembled, not checked and tested. Departure will simply consist of hooking up the cab to the chassis and the repacking of components onto the second truck, which will arrive ahead of the house truck, instead of the time spent aligning the truck with the proper house placement.

**Stage One – Disassembly, Three Separate Teams (12 HRS )**  
Team 1 Qualified Student Installers  
Team 2 Systems Team  
Team 3 Architecture Team

**Team 1 Qualified Student Installers**  
**1.a Solar Façade Panel and Battery Removal**  
The battery bank is uninstalled. The façade PV panels are then unwired and uninstalled. The solar thermal loop drained into a sealed storage container and removed.  
**1.b Evacuated Tube Removal**  
The evacuated tubes will be removed by qualified installers and the system will be drained into a sealed storage container.

**Team 2 Systems Team**  
**2.a Systems and Appliance Removal**  
Any appliances and control equipment not included in the house during shipping will be removed at this time.  
**2.b. Plumbing Disconnect**  
The system is drained into the waste tank. Plumbing lines and fittings are then disconnected. Supply and waste tanks are located at the rear of the house, and rainwater catchment tanks are returned to the truck.

**Team 3 Architecture Team**  
**3.a Interior**  
Temporary cross bracing will be reinstalled. Kitchen window bracing will be refitted. Furnishings will placed on the trucks.  
**3.b Exterior**  
Landscaping tanks and planters are returned to the truck. Landscap-

ing is returned to the truck. The car is returned to the truck and locked down for transport. Exterior cladding not shipped on the house is also removed at this time.

**Stage Two – Departure, All Teams working together ( 12 HRS)**  
The house will depart in one module as it arrived. All other components will be re-stored on the remaining trucks.

- 1. Deck Removal (3 HRS)**  
All railings and remaining decking landscaping elements are removed. The front and rear ramps are disassembled. Deck sections are removed and placed on trucks. Joists and beams are removed. The beams will be braced on temporary bottle jacks, and the piers removed and stored. The beams themselves will then be removed and stored, along with the bottle jacks.
- 2. Solar Panel Array and Supports Installation (4 HRS)**  
Scaffolding is erected around the house. All panels are dewired and removed from the roof. Solar panel frames are then disconnected and lowered from the roof.
- 3. House Movement Preparation (2 HRS)**  
Tiedowns are disconnected. Temporary bottle jacks are placed beneath the chassis. Nuts are removed from securing bolts on the piers, and bottle jacks then take the weight of the house. Piers are removed and reloaded onto trucks.
- 4. House Hookup Preparation (1 HR)**  
The cab returns to the house and awaits hookup. The wheels are reinstalled. The cab is reconnected. The bottle jacks are lowered and the cab and ground take the weight of the chassis.
- 5. Site (1 HR)**  
Site is inspected for remaining debris and once clean to pre-competition state, departure is ready.
- 6. Departure ( 1 HR )**  
The trucks exit the Mall and depart for Georgia.

4. SPECIAL EQUIPMENT

**Scaffolding**  
The only special equipment needed will be scaffolding that can be disassembled for transport. This will only be used to install the roof PV modules and will incorporate the necessary fall protection.

**Generator**  
Generators conforming to noise restrictions will be used during the full power construction phase.

5. DISPOSAL OR RECYCLING OF MATERIALS

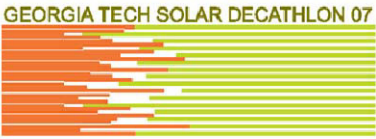
**Small scraps**  
The house will be arriving at the Mall fully constructed but in need of assembly. This being the case, there should be very little material needing to be disposed of or recycled. All necessary components of the house will arrive in the remaining trucks, and any scrap, blocking, etc. can be stored on the second truck for disposal/recycling or can return with the team at the end of the competition. The only disposal or recycling necessary would include packing of previously uninstalled components such as controls equipment, appliance packaging, and

food and beverage packaging and containers consumed by Decathletes. This is estimated to require two 65 gallon containers.

6. PPE REQUIREMENTS  
Personal equipment, team equipment

Every team member will be required to wear properly fitting PPE, to be worn at all times while on site, including steel toe boots, safety glasses, long pants, short sleeves at a minimum, and hard hats.

Also onsite will be protection equipment for various activities, such as fall protection, ear and hand protection, electrical protection, and other such equipment as deemed necessary by the activity.



date			
description			
revision			

consultants:



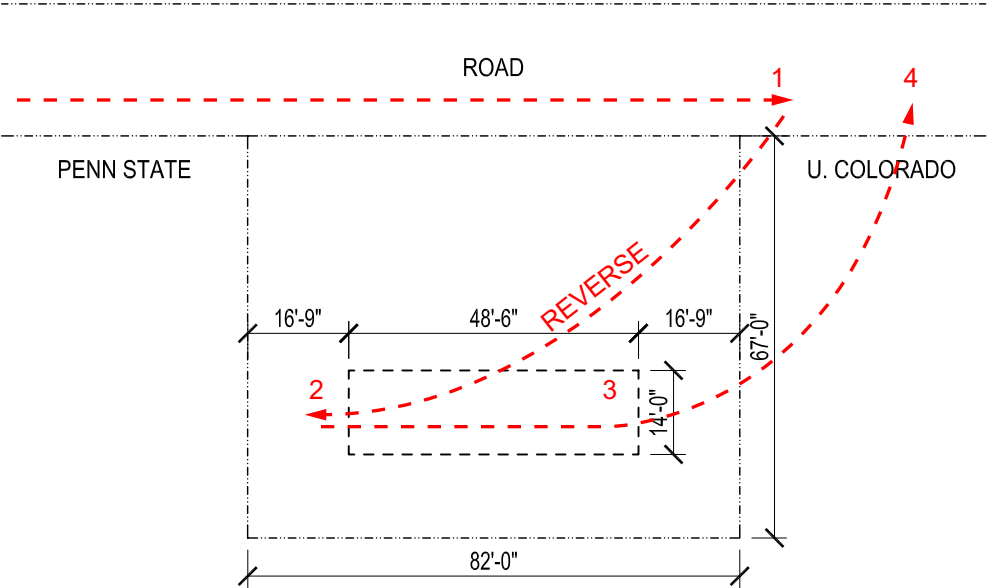
prepared by:  
**J. Mabry**  
date drawn:  
**08.05.07**



scale: **NTS**

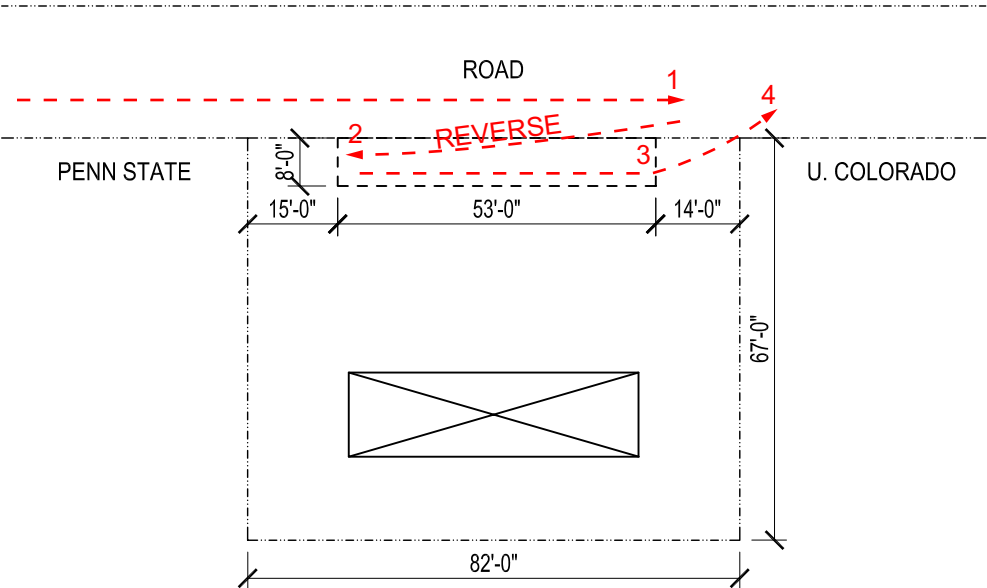
T.1.0.a

SITE STAGING TIMELINE



1. ARRIVAL ALONGSIDE SITE
2. REVERSE ONTO THE SITE
3. FINAL POSITIONING ON THE SITE
4. DEPARTURE OF TRACTOR FROM SITE

1 HOME ARRIVAL  
T.1.1



1. 53' TRACTOR TRAILER ARRIVAL
2. REVERSE INTO POSITION
3. DETACHMENT OF TRAILER
4. DEPARTURE OF TRACTOR
5. TRAILER REMAINS 3 DAYS

2 53' TRACTOR TRAILER ARRIVAL  
T.1.1

date

description

revision

consultants:



prepared by:

A. Jakubiec

date drawn:

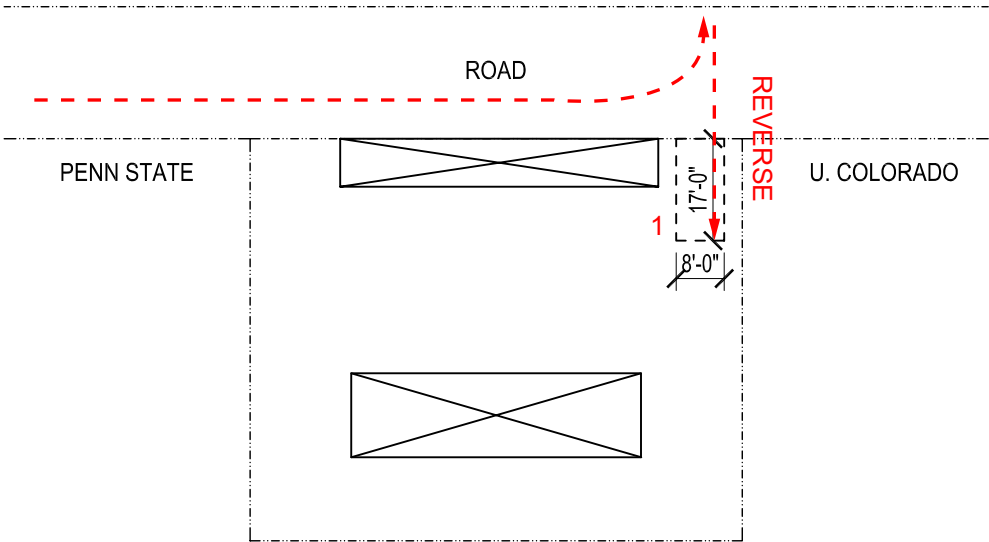
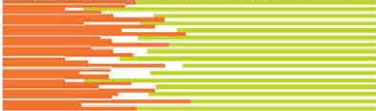
08.05.07

scale: 1/32" = 1' 0"

T.1.1

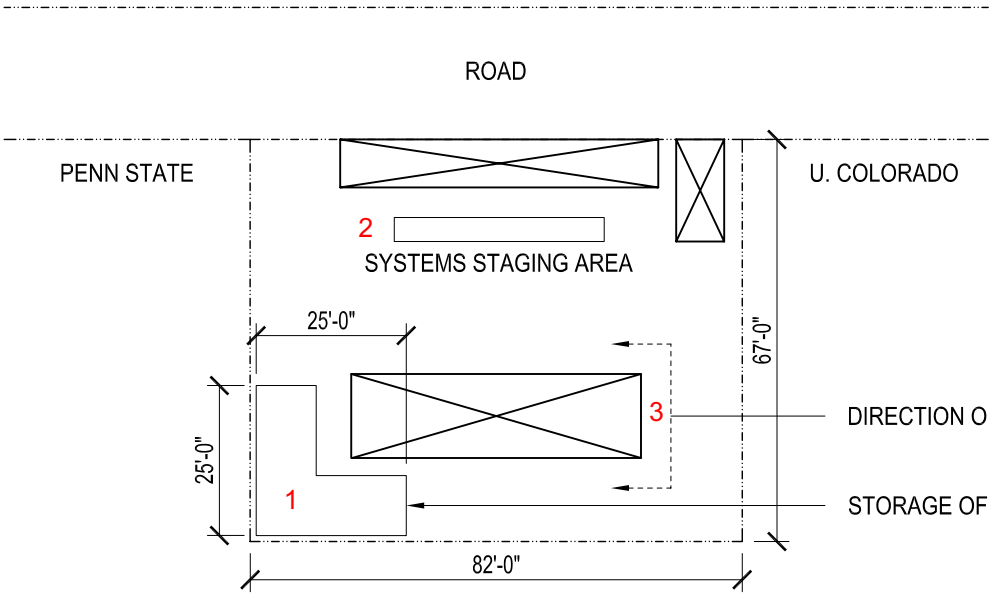
SITE STAGING OPERATIONS





1. ARRIVAL OF SMALL EQUIPMENT TRUCK
2. TRUCK STAYS ON SITE FOR 6 DAYS

1 17' SERVICE VEHICLE ARRIVAL  
T.1.2



1. ESTABLISH LANDSCAPE STORAGE AREA
2. ESTABLISH SYSTEMS STAGING AREA
3. INSTALL PV PANWLS TOWARDS THE WEST

2 STAGING AREA  
T.1.2

date

description

revision

consultants:

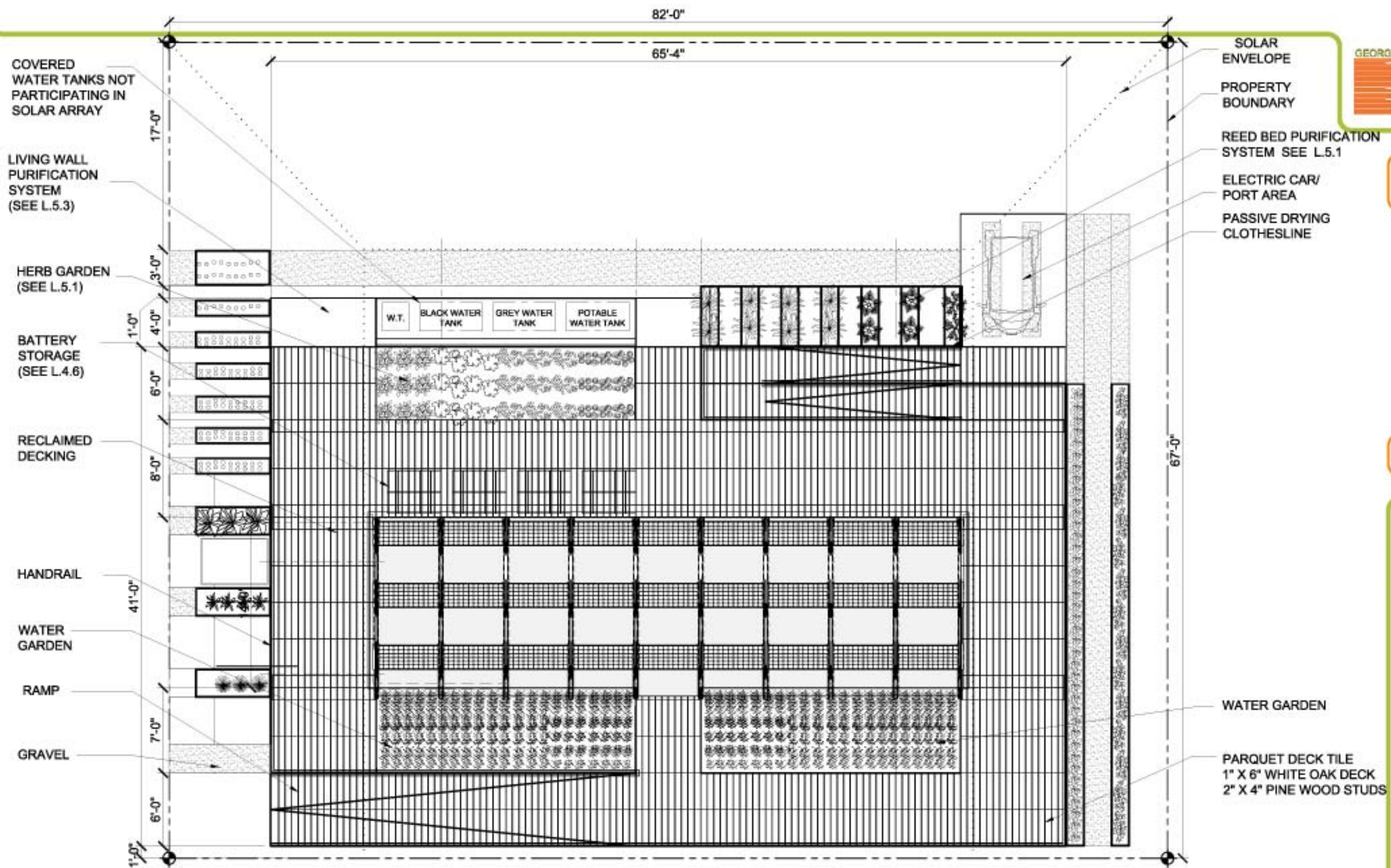


prepared by:  
**A. Jakubiec**  
date drawn:  
**08.05.07**

scale: 1/32" = 1' 0"

T.1.2

SITE STAGING OPERATIONS



date	description	revision

consultant



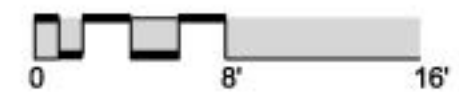
prepared by:  
Toni Clett  
Barbara Hearon  
date drawn:  
12.01.06 / 3.06.07



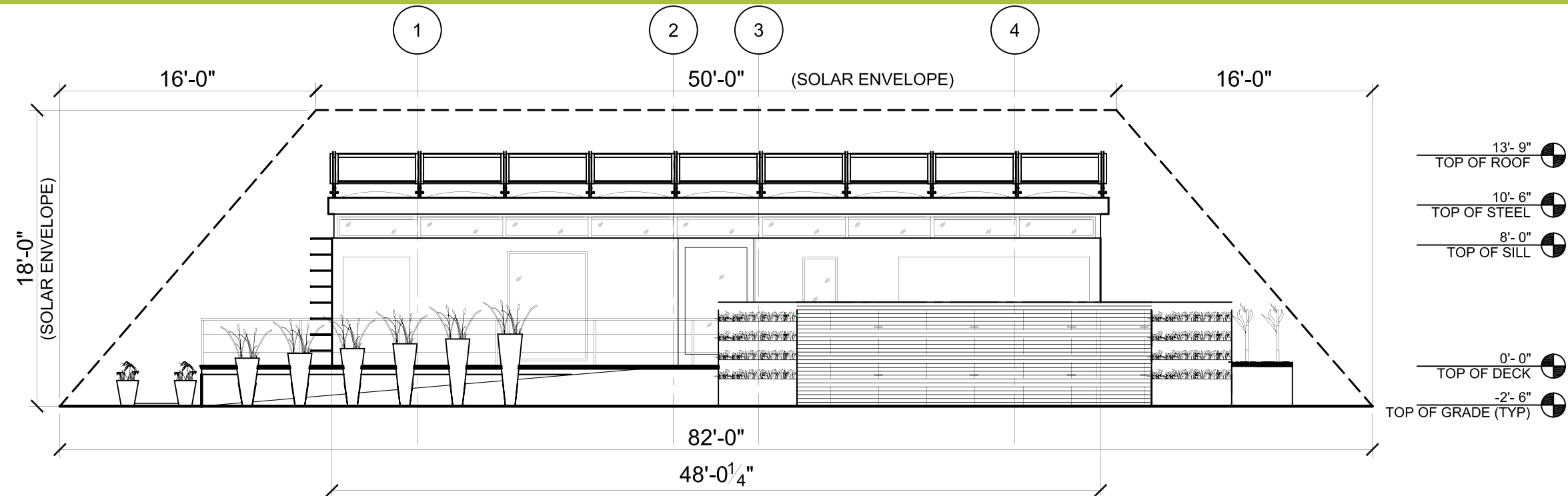
scale: 1/8" : 1' 0"

L.1.0

SITE PLAN

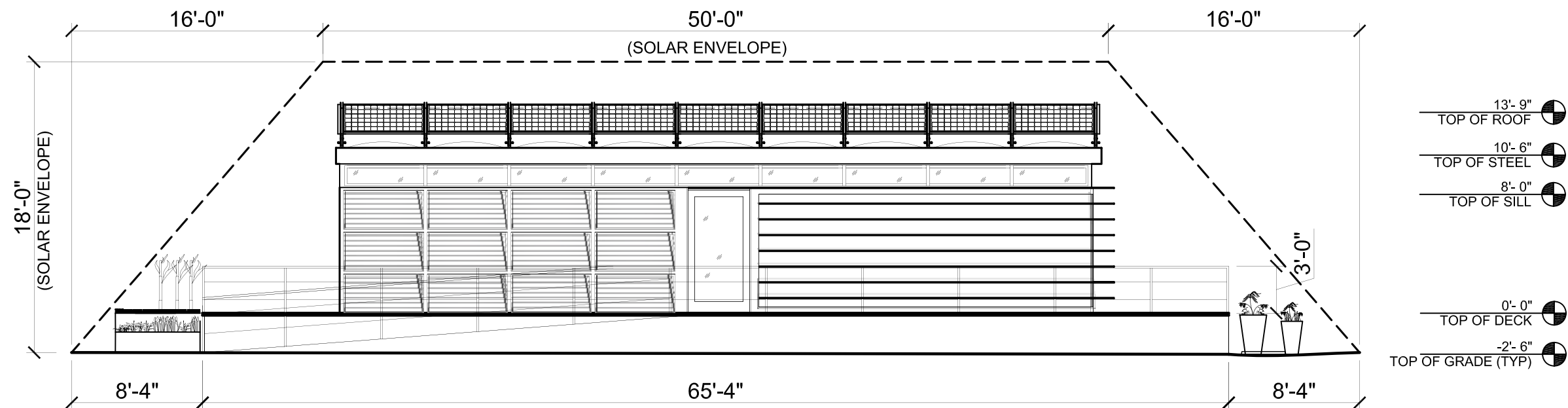






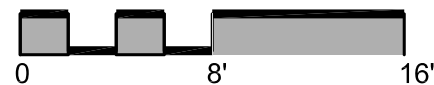
2 SITE ELEVATION - NORTH

L.2.0



1 SITE ELEVATION - SOUTH

L.2.0



date	
description	
revision	

consultants:

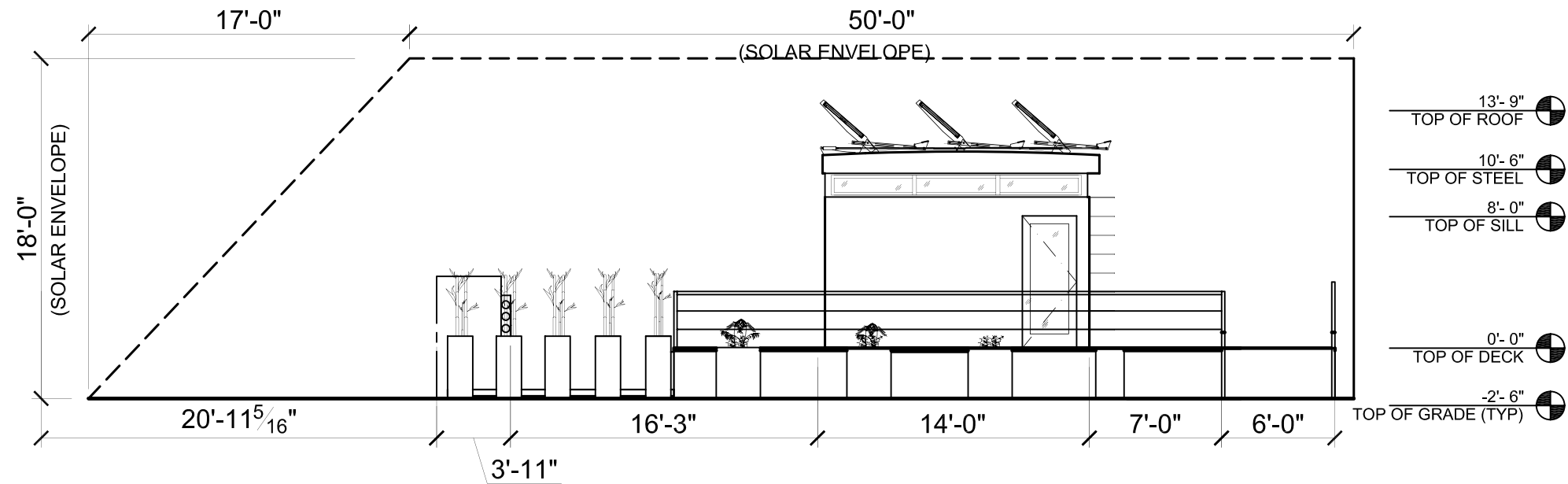


prepared by:  
**Amanda Cook**  
**C.VAN KLEY**  
date drawn:  
**11.27.06**  
**3.06.07**

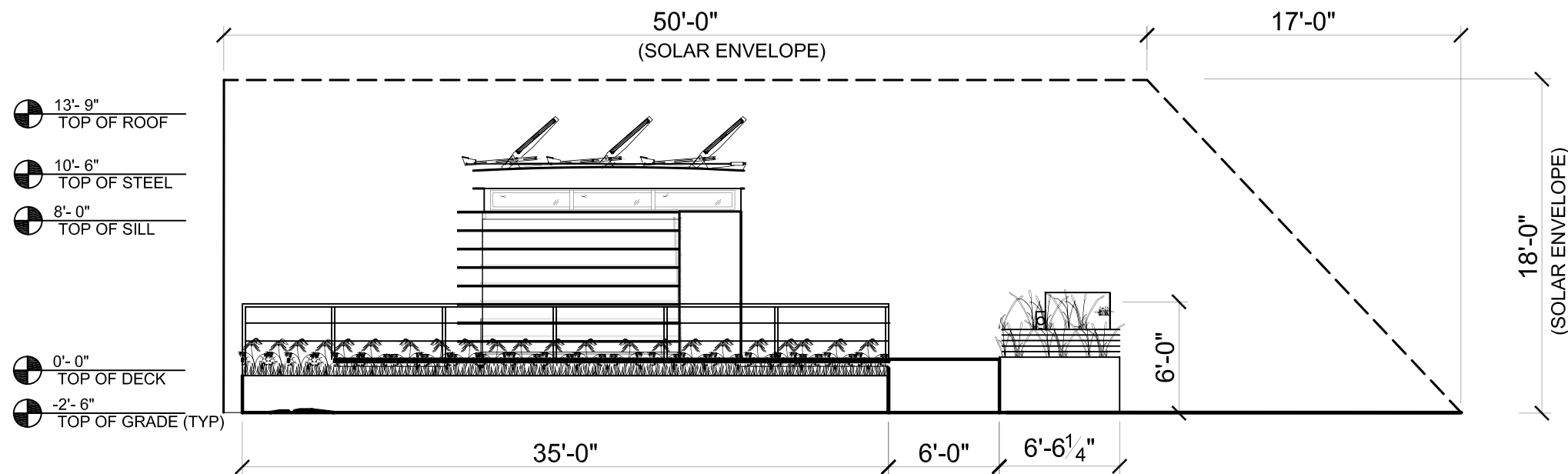
scale: 1/8" : 1' 0"

L.2.0

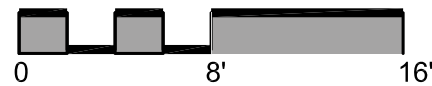
SITE ELEVATIONS



2 SITE ELEVATION- WEST  
L.2.1



1 SITE ELEVATION- EAST  
L.2.1



date	
description	
revision	

consultants:



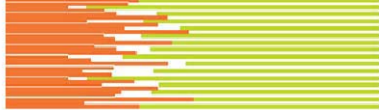
prepared by:  
**Amanda Cook**  
**C.VAN KLEY**  
date drawn:  
**11.26.06**  
**3.06.07**

scale: 1/8" : 1' 0"

L.2.1

SITE ELEVATIONS





date

description

revision

consultants:




prepared by:

**Amanda Cook**  
**C.VAN KLEY**

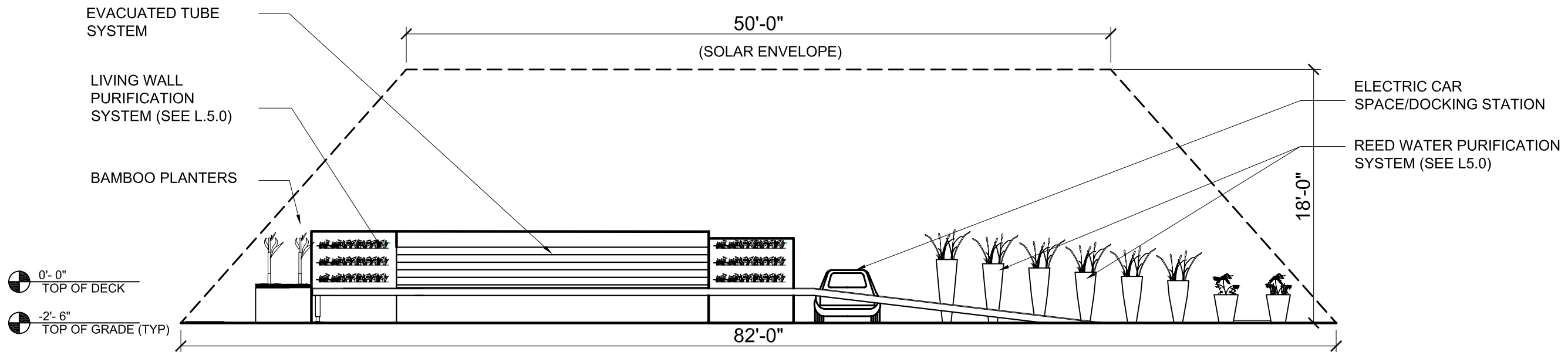
date drawn:

**12.01.06**  
**3.06.07**

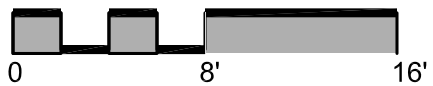
scale: 1/8" = 1' 0"

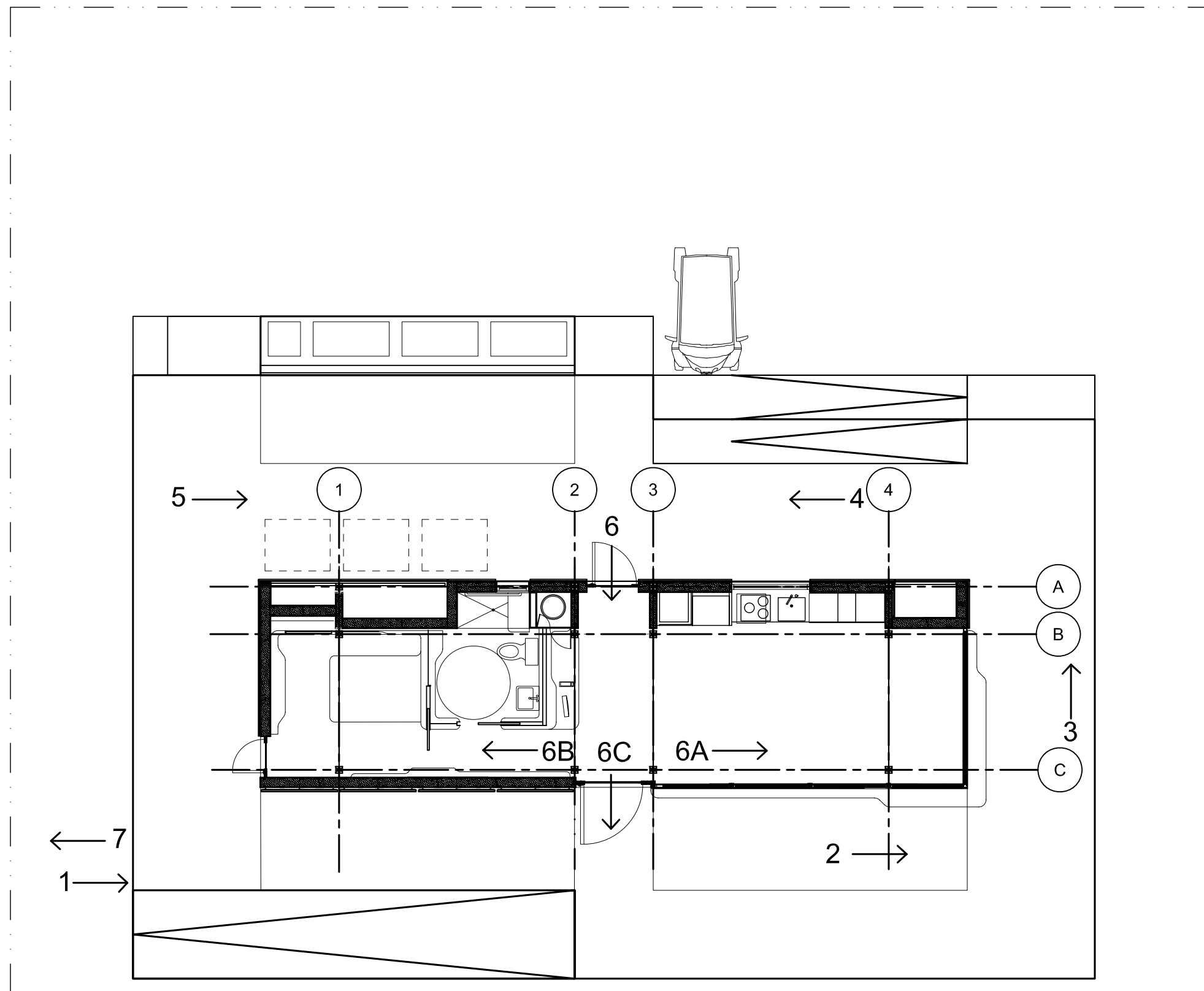
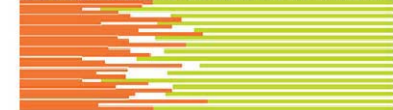
SITE SECTION

L.2.2



1  
L.2.2  
SITE SECTION - NORTH





date	
description	
revision	

consultants:



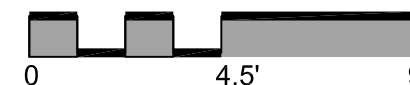

prepared by:  
**Amanda Cook**  
**C.VAN KLEY**  
 date drawn:  
 12.01.06  
 3.06.07



scale: 1/8" : 1' 0"

TOUR ROUTE

L.3.0



1 TOUR ROUTE (40 minute tour)  
 L.3.0



- Tour Route
1. Introduction

- Team Structure
  - Timeline
  - Team Goals
  - Arch/Engineering
  - Marketing Segment
    - Adaptable living
    - Modern

2. Roof Structure

- Skin – Structure & ETFE
  - PV
    - Technology
    - Operability

3. Walls

- Exterior Louvers & Translucent Walls
    - Construction techniques
    - Shading, usefulness
  - BIPV & SIPS
    - Construction techniques
    - Hot Water Devices
    - Energy Produced & Efficiency
  - Regroup/Summary

4. Batteries, Car, Inverter

5. Water System, Mechanical, Garden
  - Evacuated Tubes
  - Grey Water System
  - Heating and Cooling Devices

6. House Tour
  - Opening
    - Structure
    - Roof
    - House Dichotomy
  - Living Area
    - Technology
    - Accessibility
    - Lighting
    - Other Design Drivers (efficiency atmosphere)
  - Bath/Bedroom
    - AWPL (Advanced Wood Products Lab Fabrication)
    - Technologies
    - Accessibility
    - Lighting
    - Other Design Drivers

7. Farewell

NOTE  
LONGER AND SHORTER TOURS  
WILL FOLLOW THE SAME PATH,  
ALBEIT BRIEFER OR MORE  
EXTENSIVE IN CONTENT.

date			
description			
revision			

consultants:

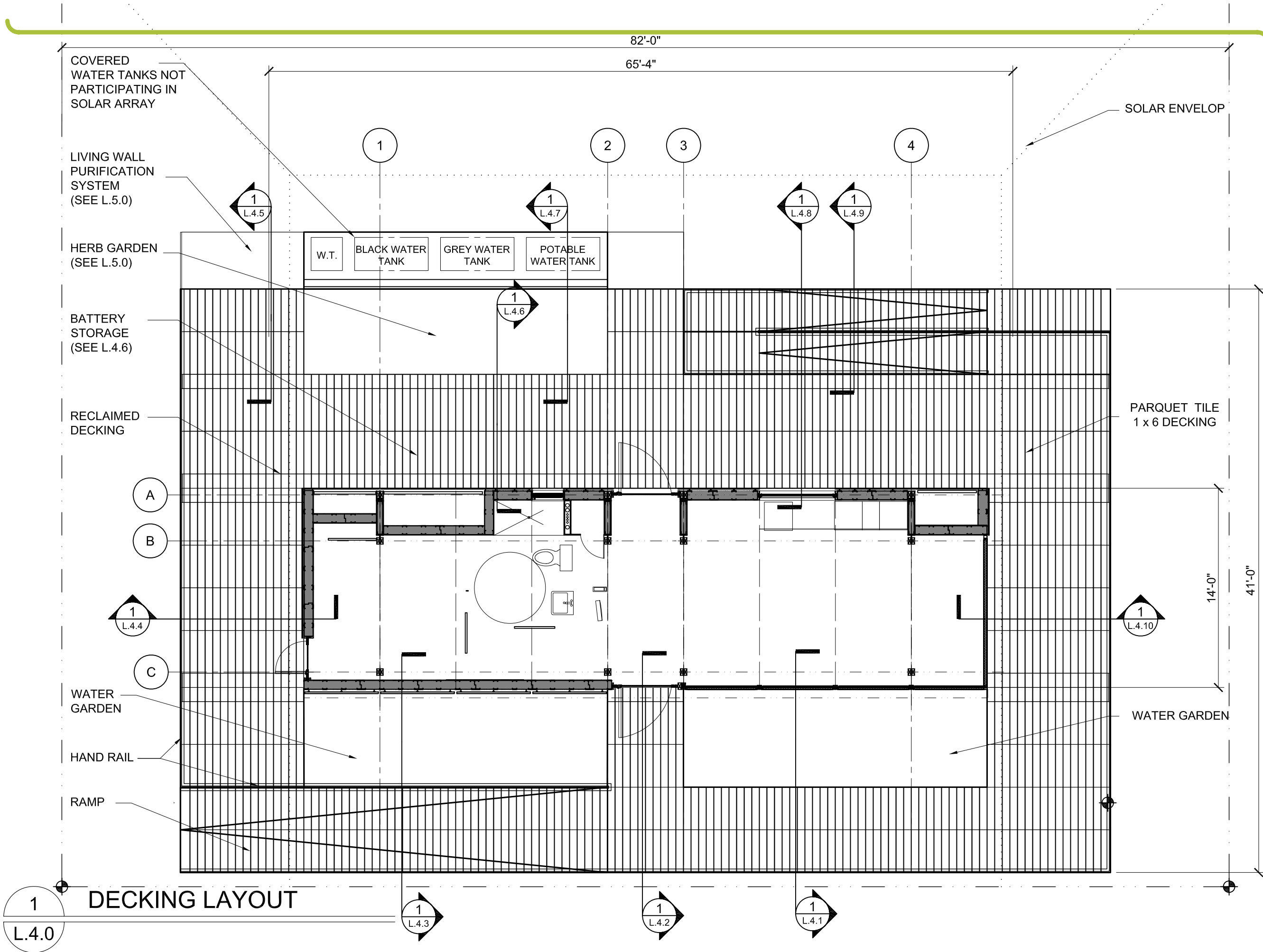


prepared by:

Amanda Cook  
C.VAN KLEY

date drawn:

12.01.06  
3.06.07



date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:

**Toni Cliett**

**Barbara Hearon**

date drawn:

**12.01.06 / 3.06.07**



scale:

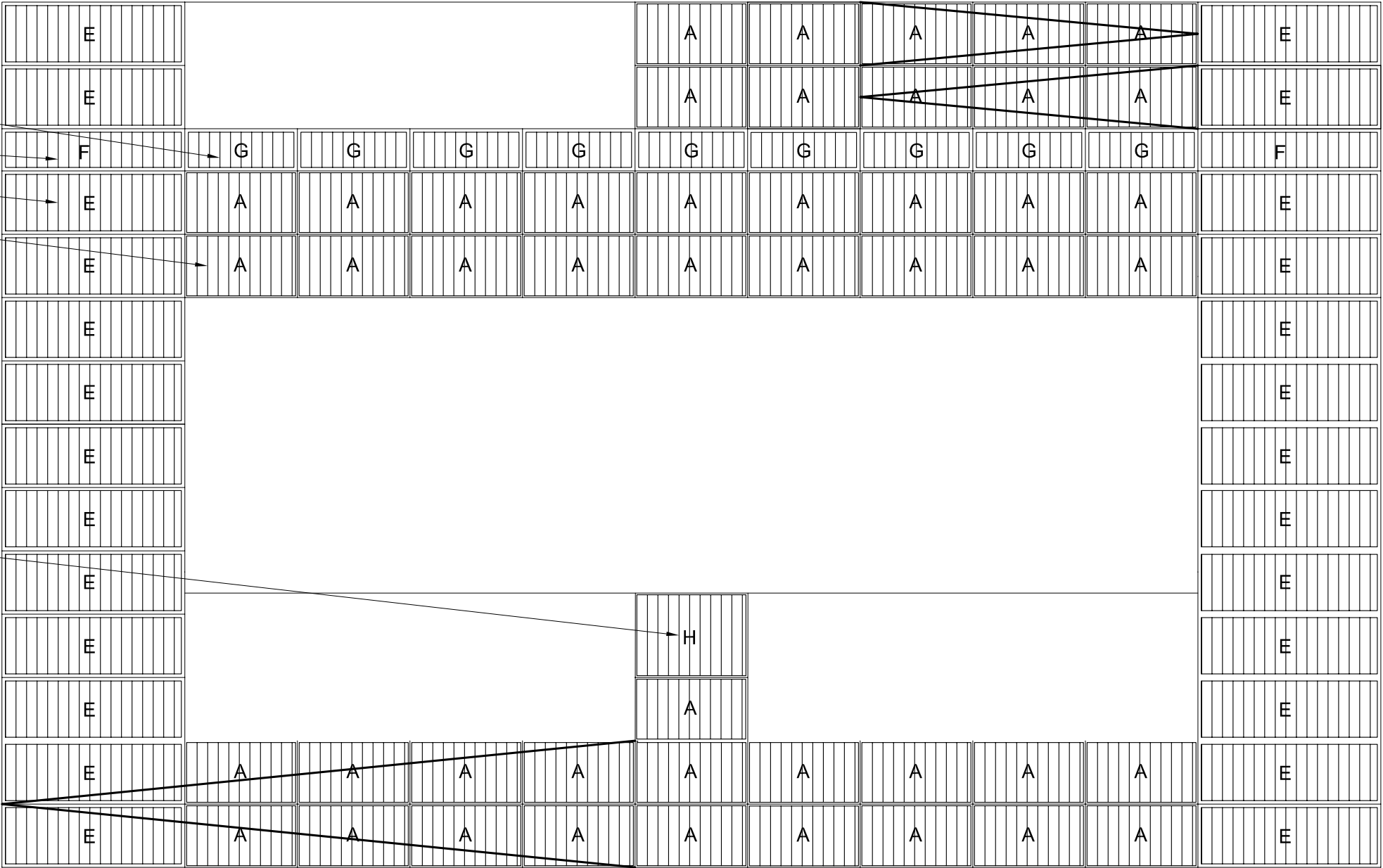
L.4.0

DECKING PLAN - LANDSCAPE



TILE G  
TILE F  
TILE E  
TILE A

TILE H



TILE NAME	SIZE	QTY
TILE A	3'-0" x 5'-4"	47
TILE E	3'-0" x 8'-8"	26
TILE F	2'-0" x 8'-8"	2
TILE G	2'-0" x 5'-4"	9
TILE H	4'-0" x 5'-4"	1

date	
description	
revision	

consultants:




prepared by:

Barbara Hearon

date drawn:

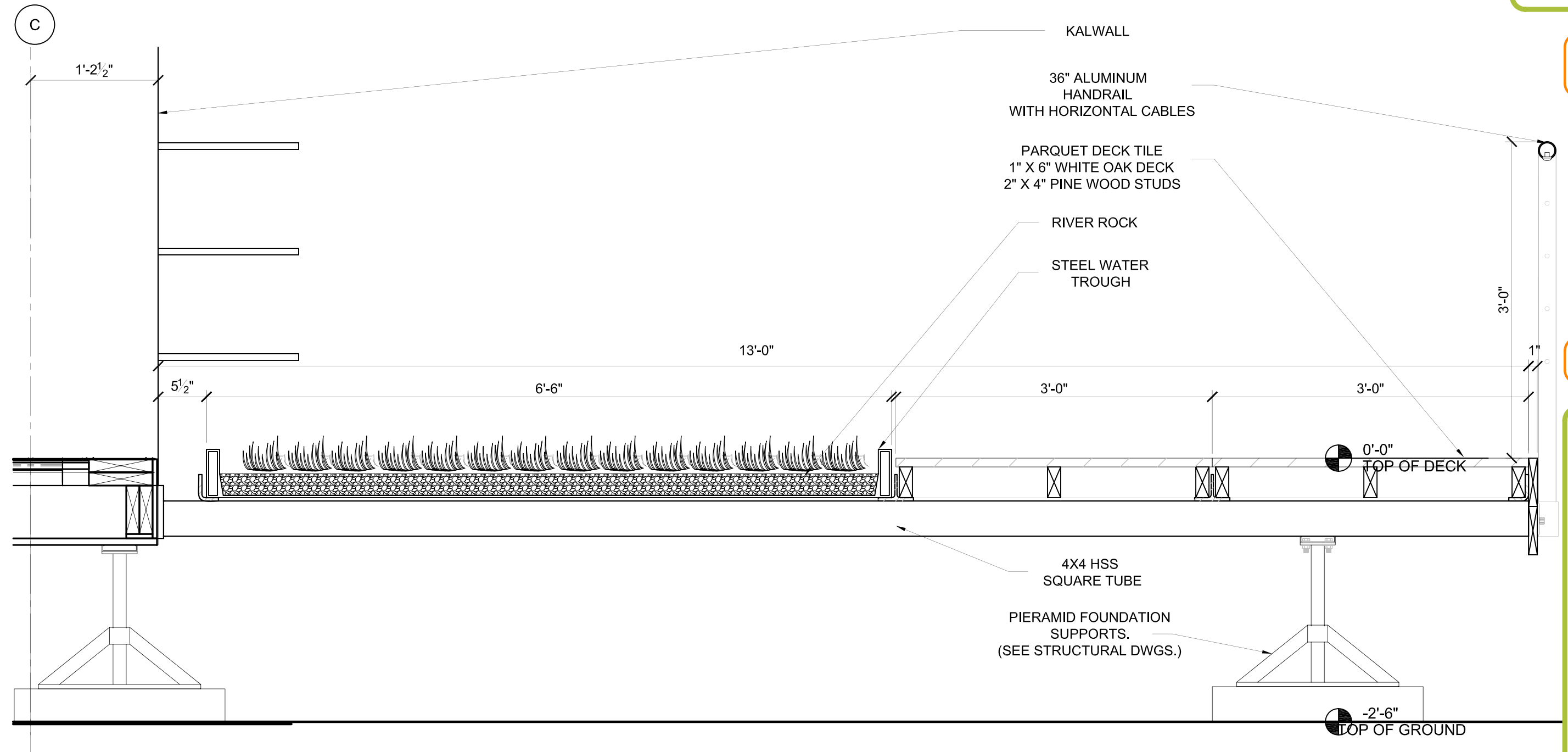
3.06.07



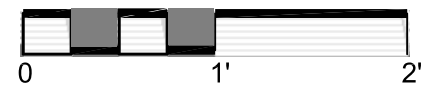
scale:

DECKING SCHEDULE - LANDSCAPE

L.4.0.A



1 WATER GARDEN SECTION  
L.4.1



date	
description	
revision	

consultants:



prepared by:

Toni Cliett  
Barbara Hearon

date drawn:

12.01.06 / 3.06.07

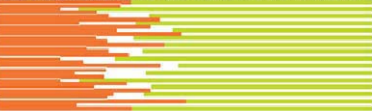


scale: 1" : 1' 0"

L.4.1

DECKING SECTIONS - SOUTH FACE





date

description

revision

consultants:



prepared by:

Toni Cliett  
Barbara Hearon

date drawn:

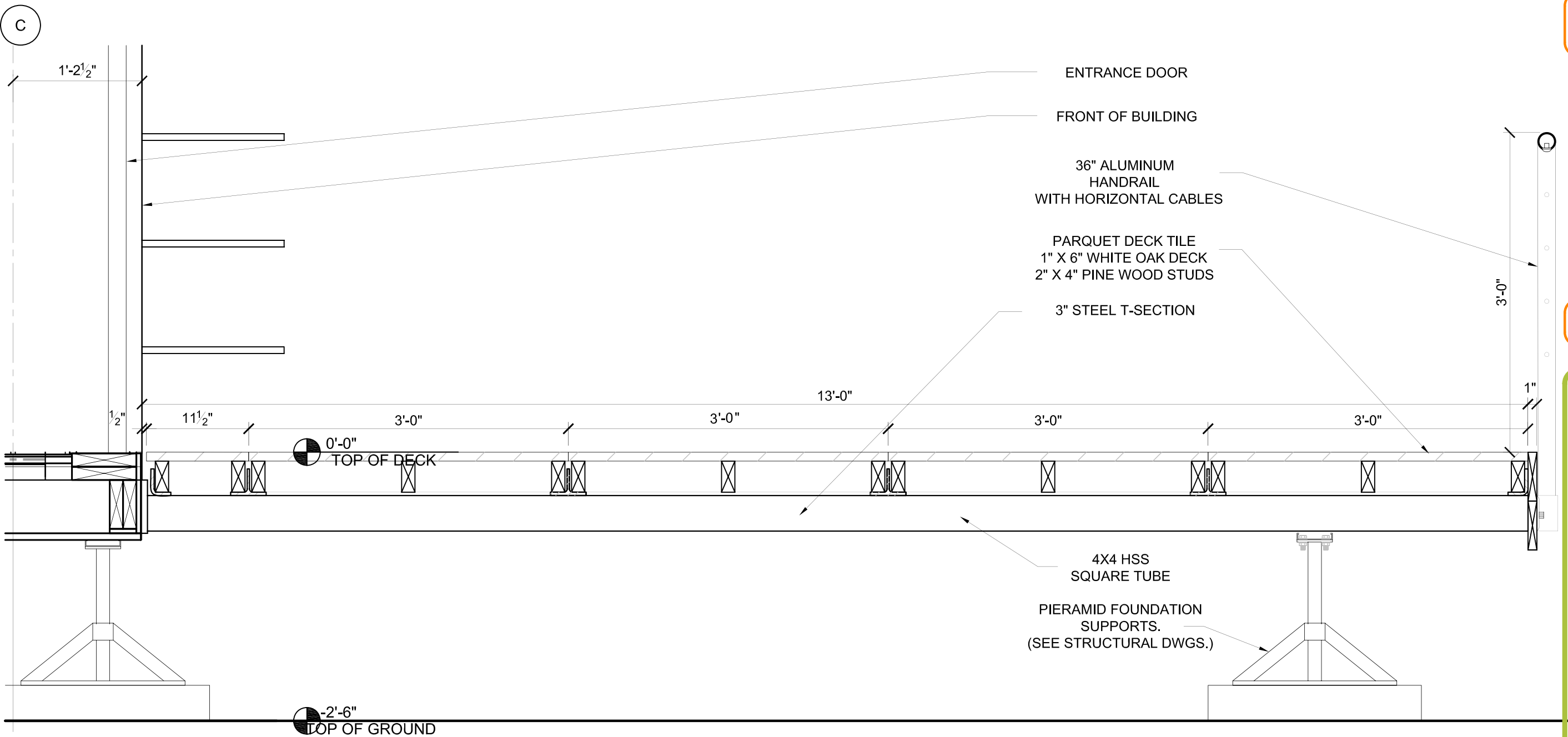
12.01.06 / 3.06.07



scale: 1" : 1' 0"

L.4.2

DECKING SECTIONS - SOUTH FACE



1 SOUTH DECK SECTION  
L.4.2

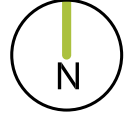


date	
revision	
description	

consultants:



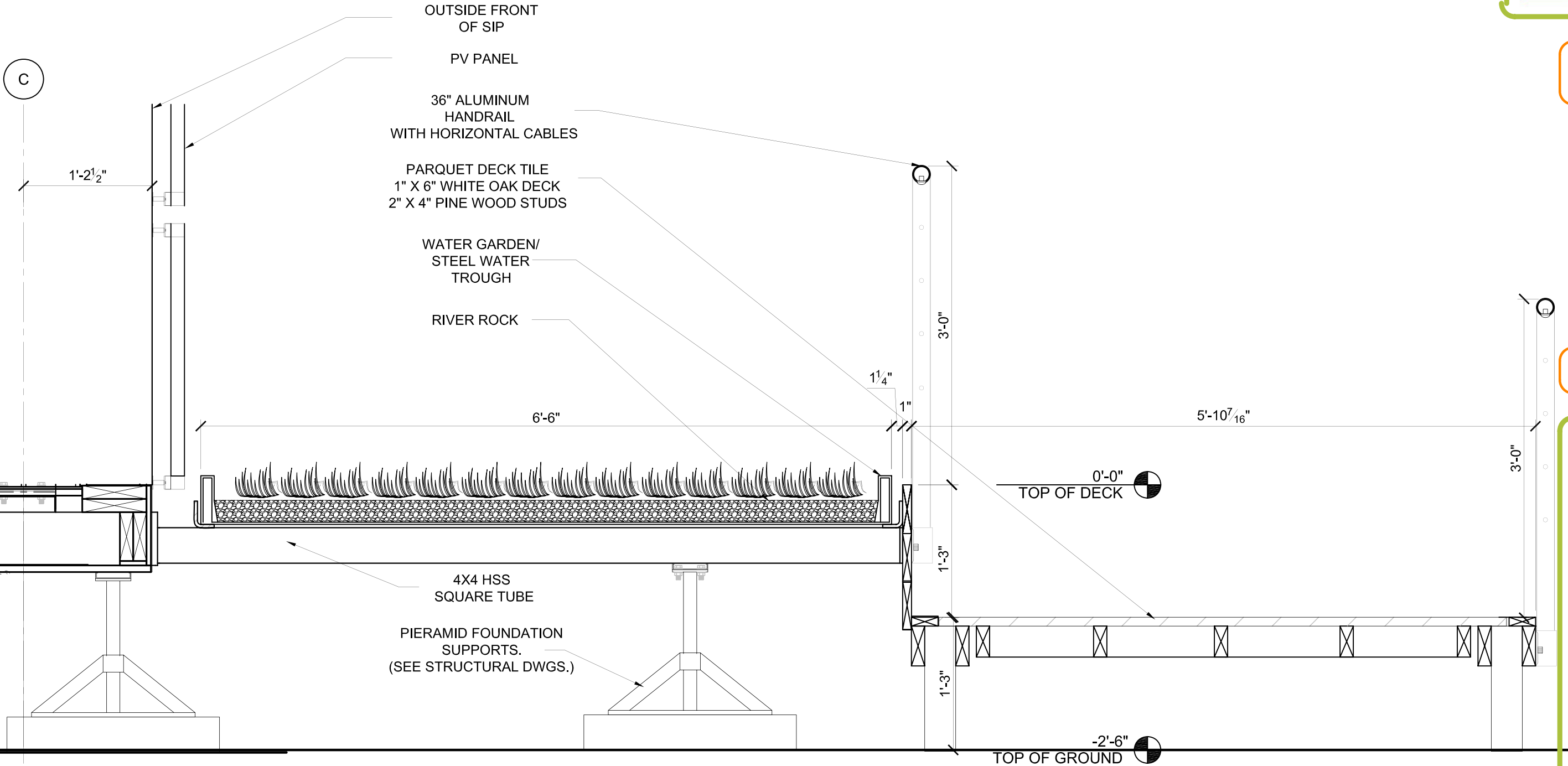
prepared by:  
**Toni Clett**  
**Barbara Hearon**  
date drawn:  
**12.01.06 / 3.06.07**



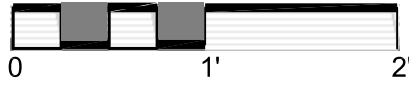
scale: **1" : 1' 0"**

**L.4.3**

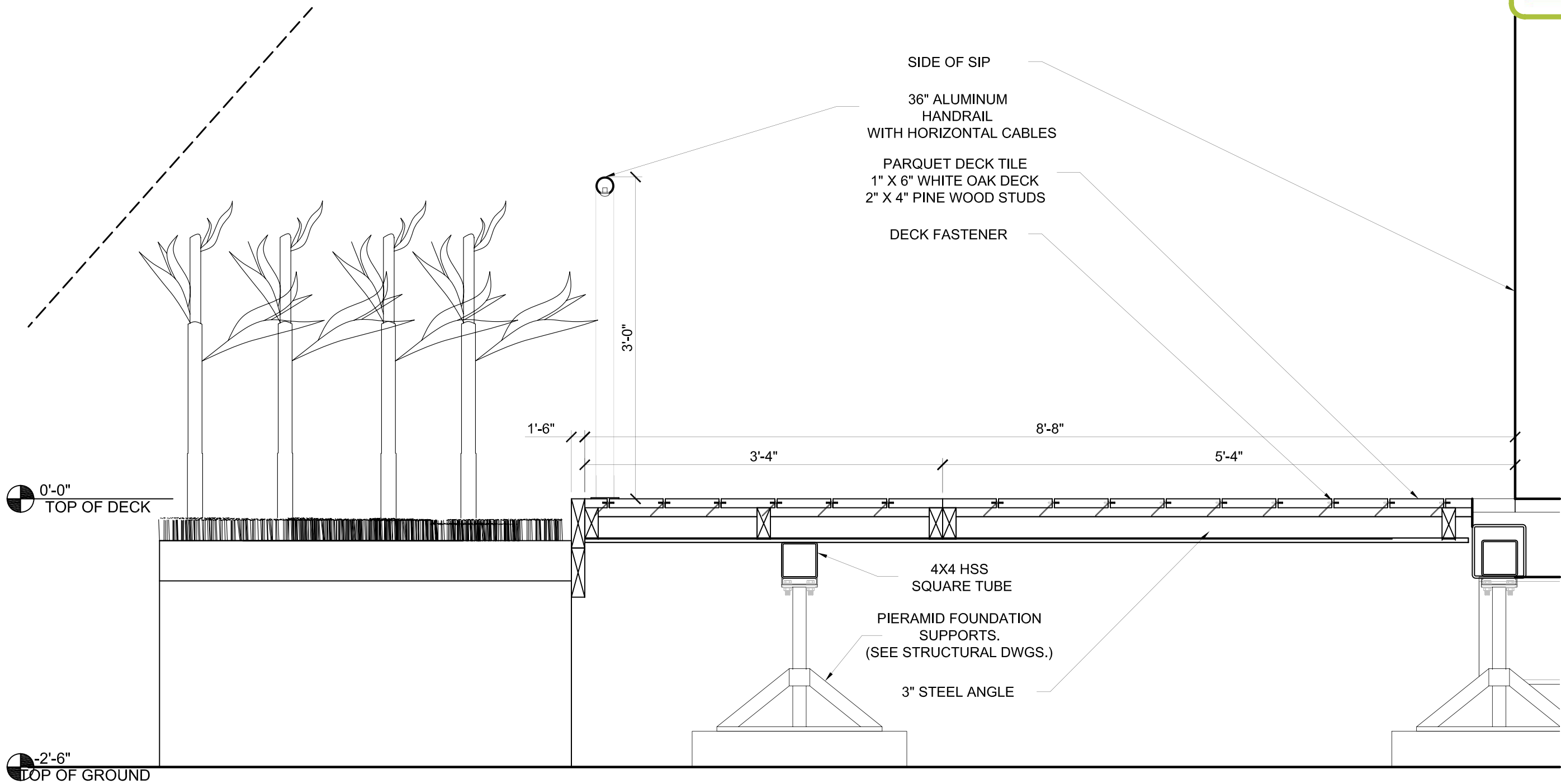
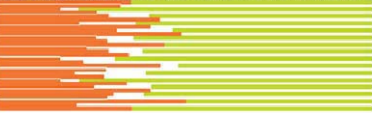
DECKING SECTIONS - SOUTH FACE



**1** SOUTH RAMP SECTION  
L.4.3







date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Toni Clett**  
**Barbara Hearon**  
date drawn:  
12.01.06 / 3.06.07



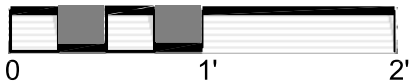
scale: 1" : 1' 0"

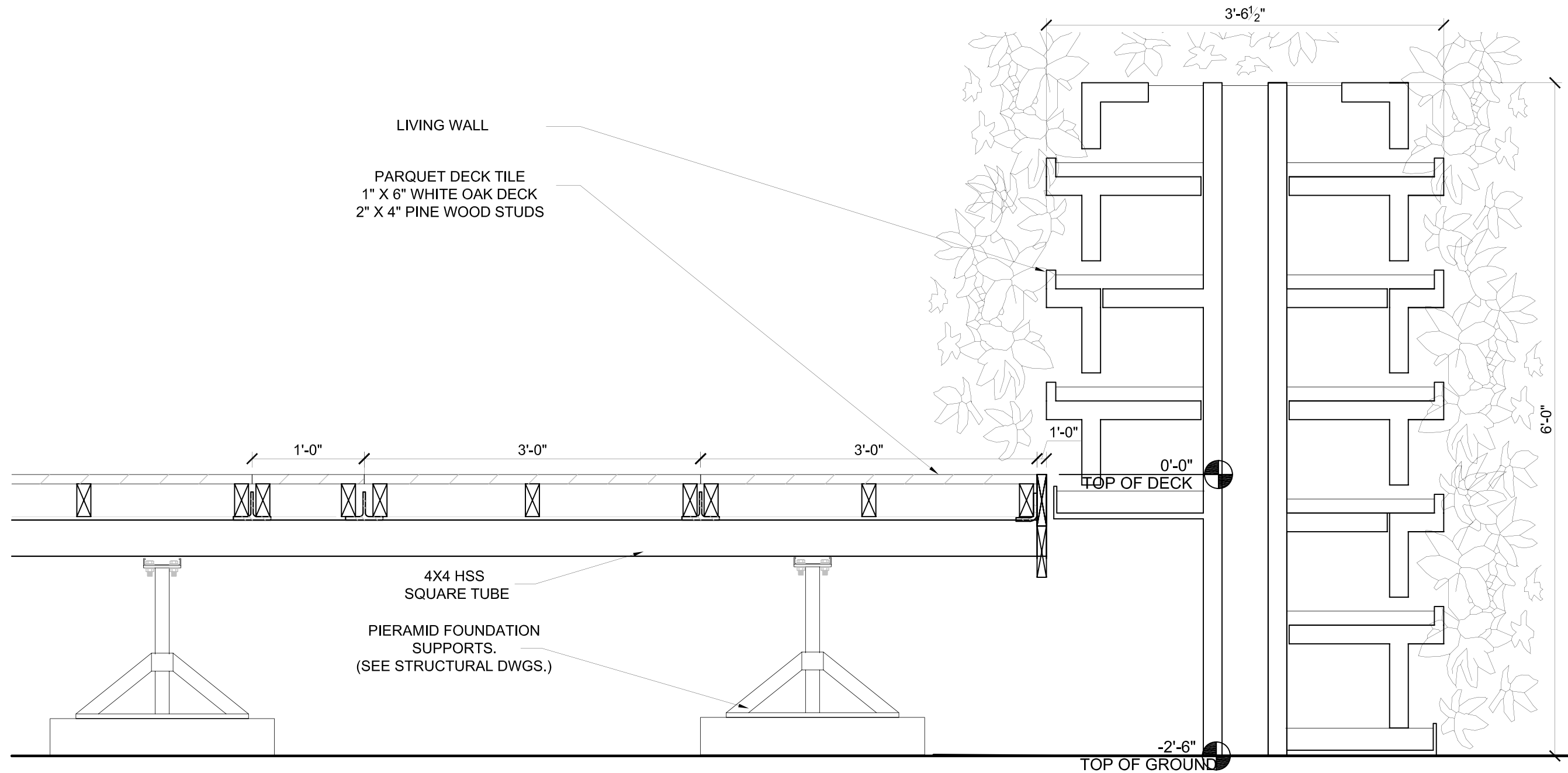
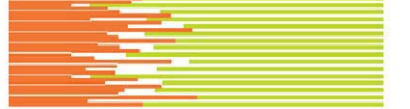
L.4.4

DECKING SECTIONS - WEST FACE

1  
L.4.4

WEST DECK SECTION





revision	description	date

*consultants:*



*prepared by:*

**Toni Cliett**

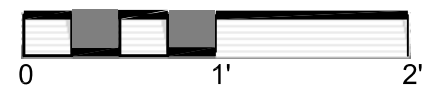
Barbara Hearon

*date drawn:*

12.01.06 / 3.06.07



scale: **1" : 1' 0"**



1

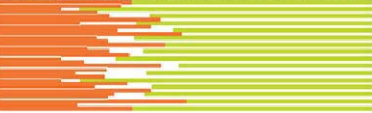
L.4.5

## BACK DECK SECTION

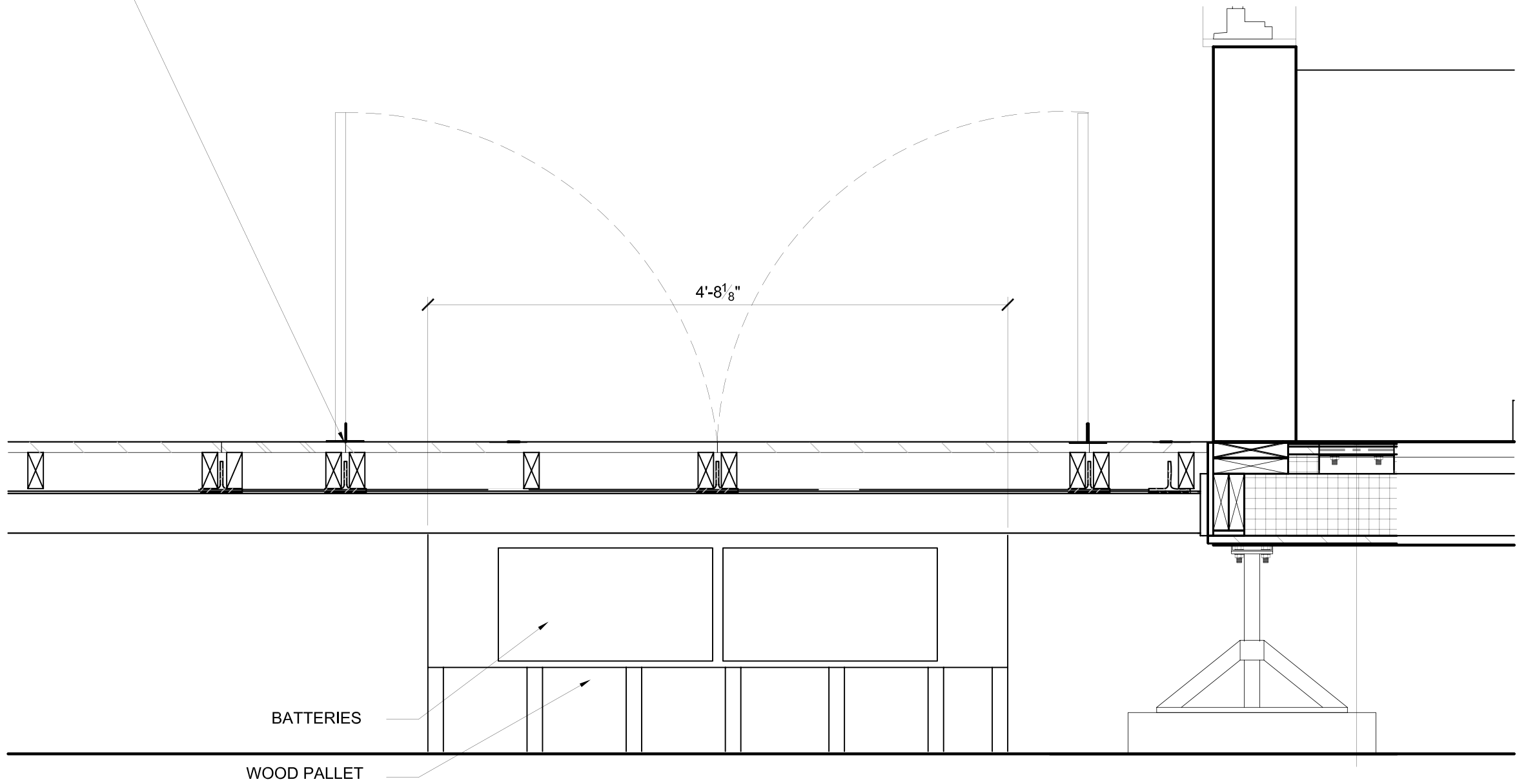
# DECKING SECTIONS - NORTH FACE

## L.4.5



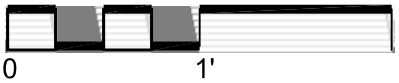


DOOR HINGE



1  
L.4.6

BATTERY STORAGE SECTION



date

description

revision

consultants:



prepared by:

Toni Cliett  
Barbara Hearon

date drawn:

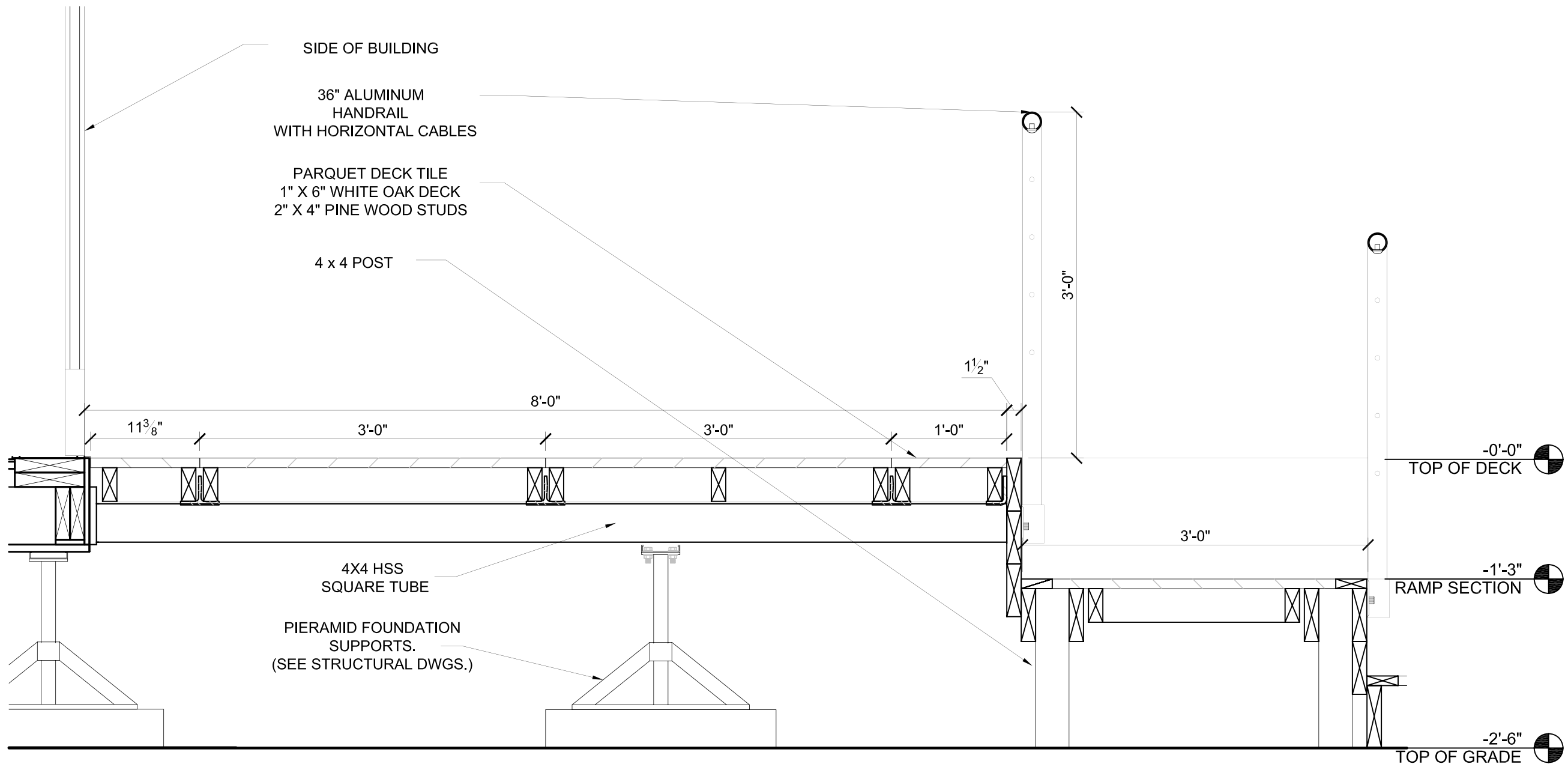
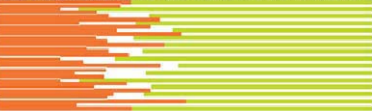
12.01.06 / 3.06.07



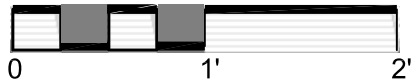
scale: 1/2 " : 1' 0"

L.4.6

DECKING SECTIONS - NORTH FACE



1 NORTH DECK RAMP SECTION  
L.4.8



date	
revision	
description	

consultants:



prepared by:

Toni Clett  
Barbara Hearon

date drawn:

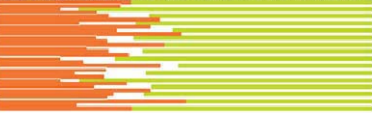
12.01.06 / 3.06.07



scale: 1" : 1' 0"

L.4.8

DECKING SECTIONS - NORTH FACE



date

description

revision

consultants:



prepared by:

Toni Cliett  
Barbara Hearon

date drawn:

12.01.06 / 3.06.07



scale: 1" : 1' 0"

L.4.9

DECKING SECTIONS - NORTH FACE

36" ALUMINUM  
HANDRAIL  
WITH HORIZONTAL CABLES

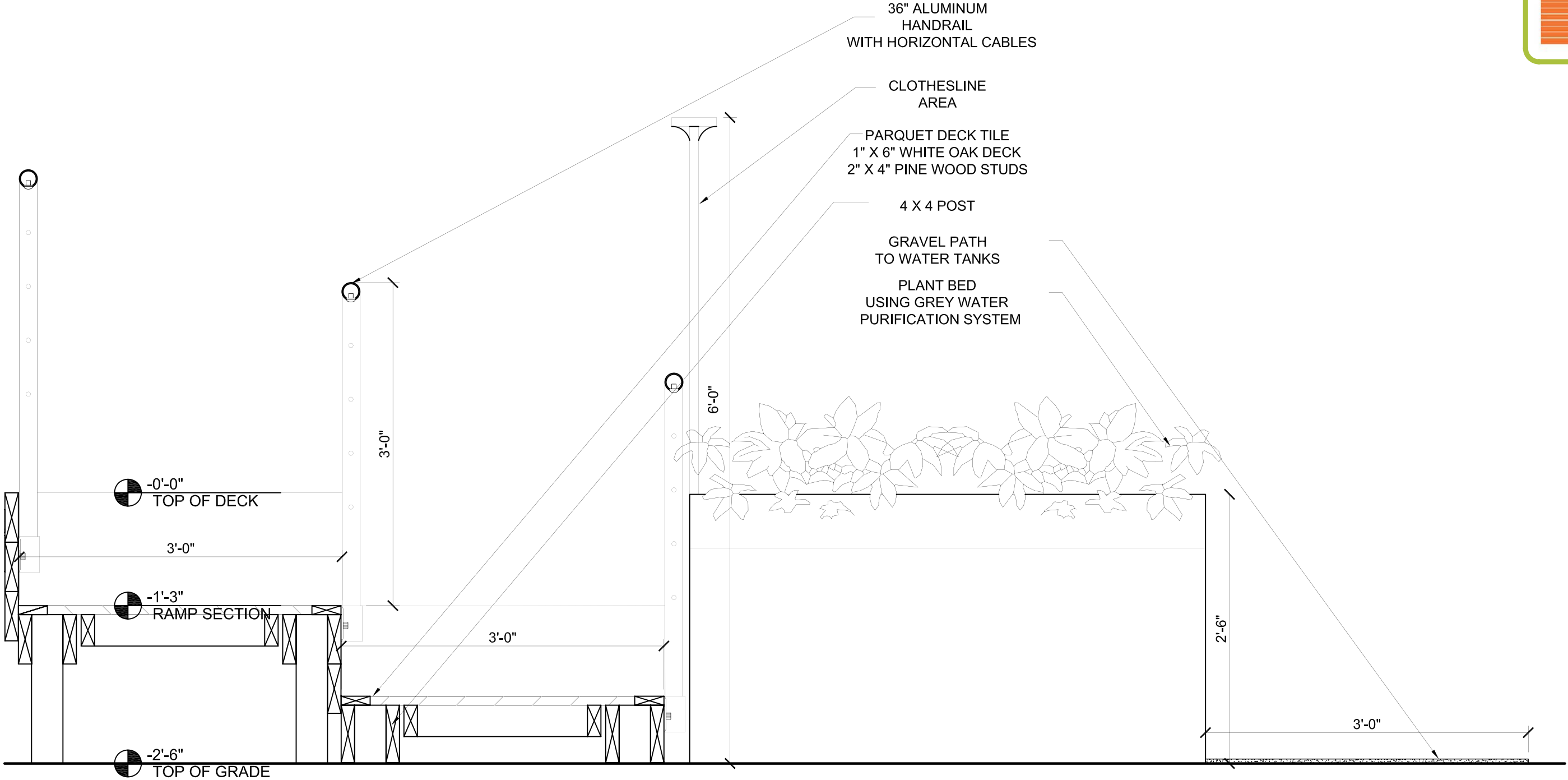
CLOTHESLINE  
AREA

PARQUET DECK TILE  
1" X 6" WHITE OAK DECK  
2" X 4" PINE WOOD STUDS

4 X 4 POST

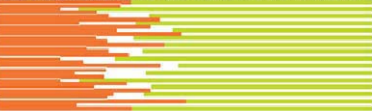
GRAVEL PATH  
TO WATER TANKS

PLANT BED  
USING GREY WATER  
PURIFICATION SYSTEM



1 NORTH RAMP SECTION  
L.4.9





date

description

revision

consultants:



prepared by:

Toni Cliett  
Barbara Hearon

date drawn:

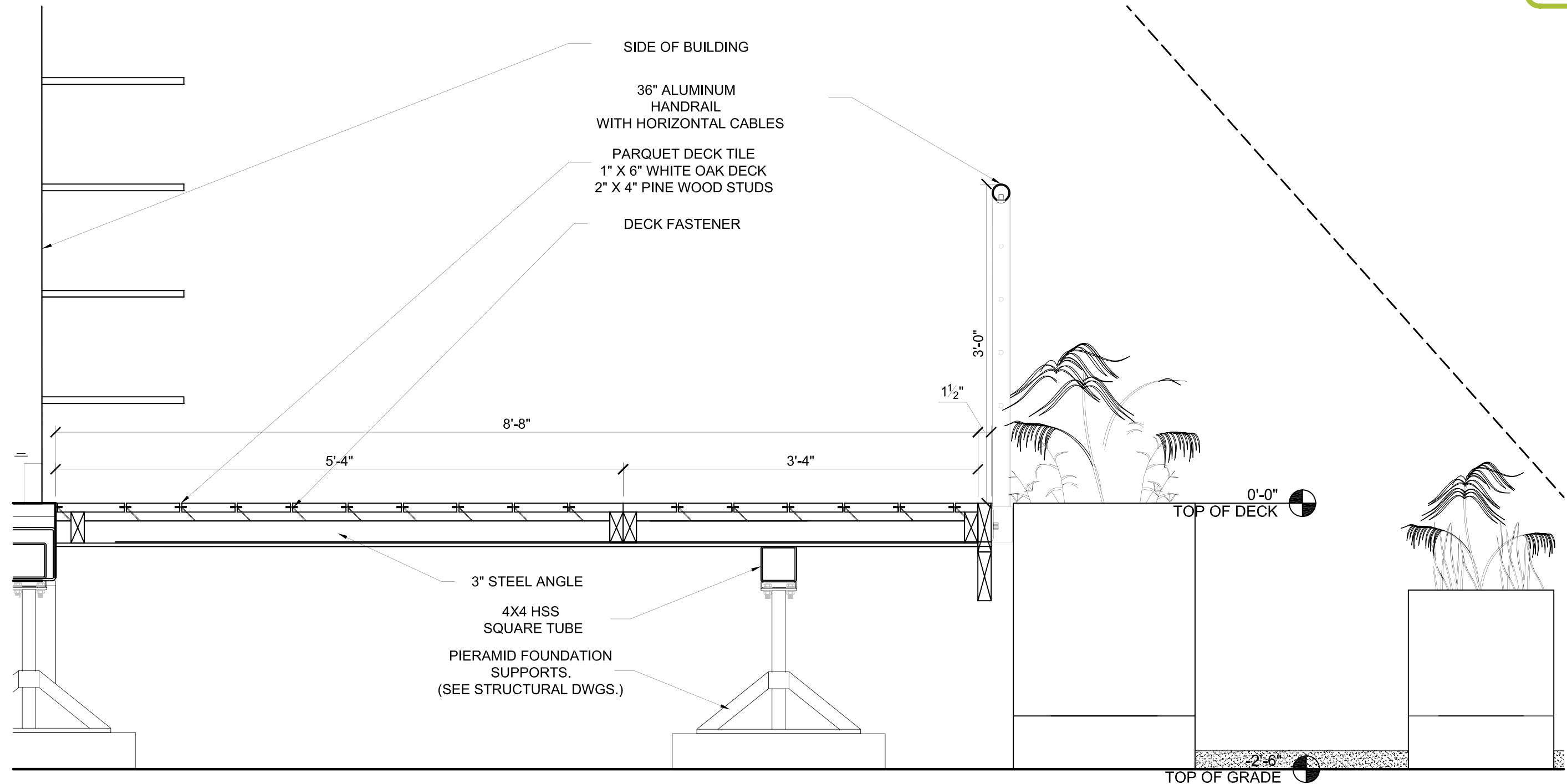
12.01.06 / 3.06.07



scale: 1" : 1' 0"

L.4.10

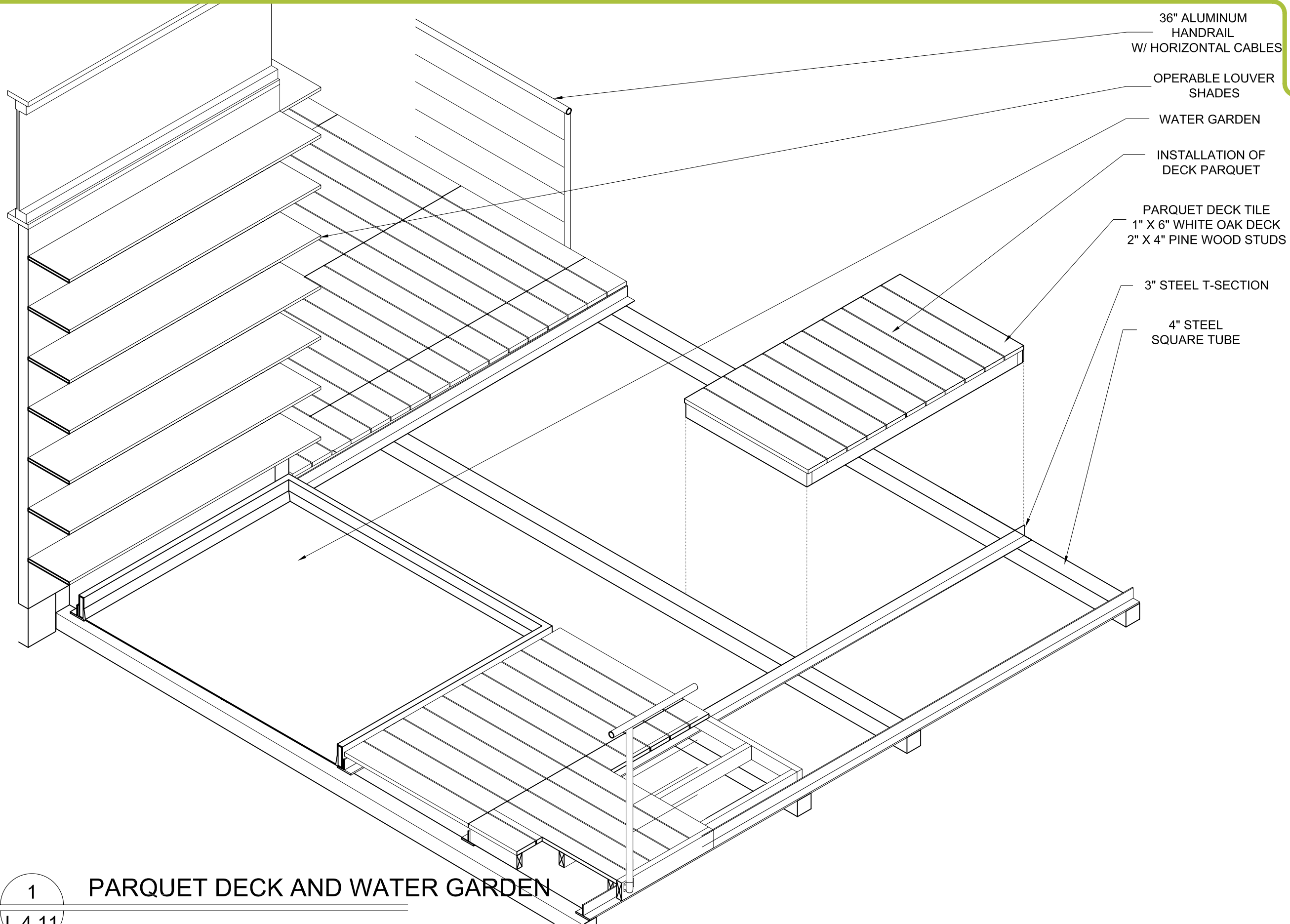
DECKING SECTIONS - EAST FACE



1  
L.4.10

EAST DECK SECTION





date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



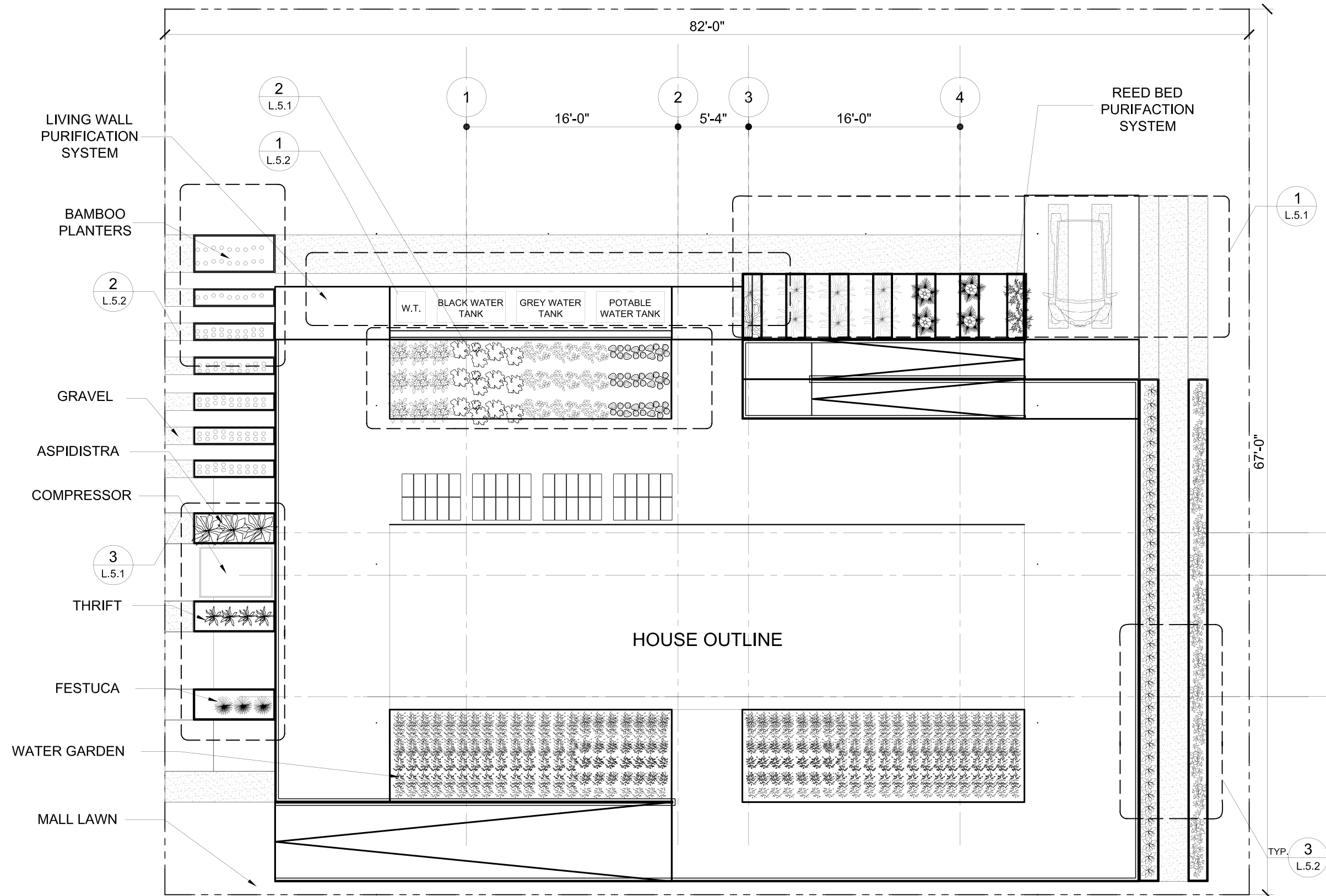
prepared by:  
**Toni Cliett**  
**Barbara Hearon**  
date drawn:  
**12.01.06 / 3.06.07**



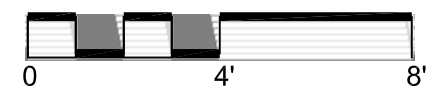
scale:

L.4.11

DECKING AXONOMETRIC



## DECATHLETE WAY



date

description

revision

consultants:

A

B

C



*prepared by:*

**Amanda Cook**  
**Barbara Hearon**

*date drawn:*

11.27.06 / 03.06.07

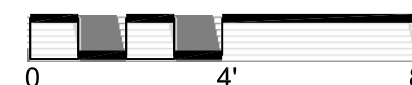
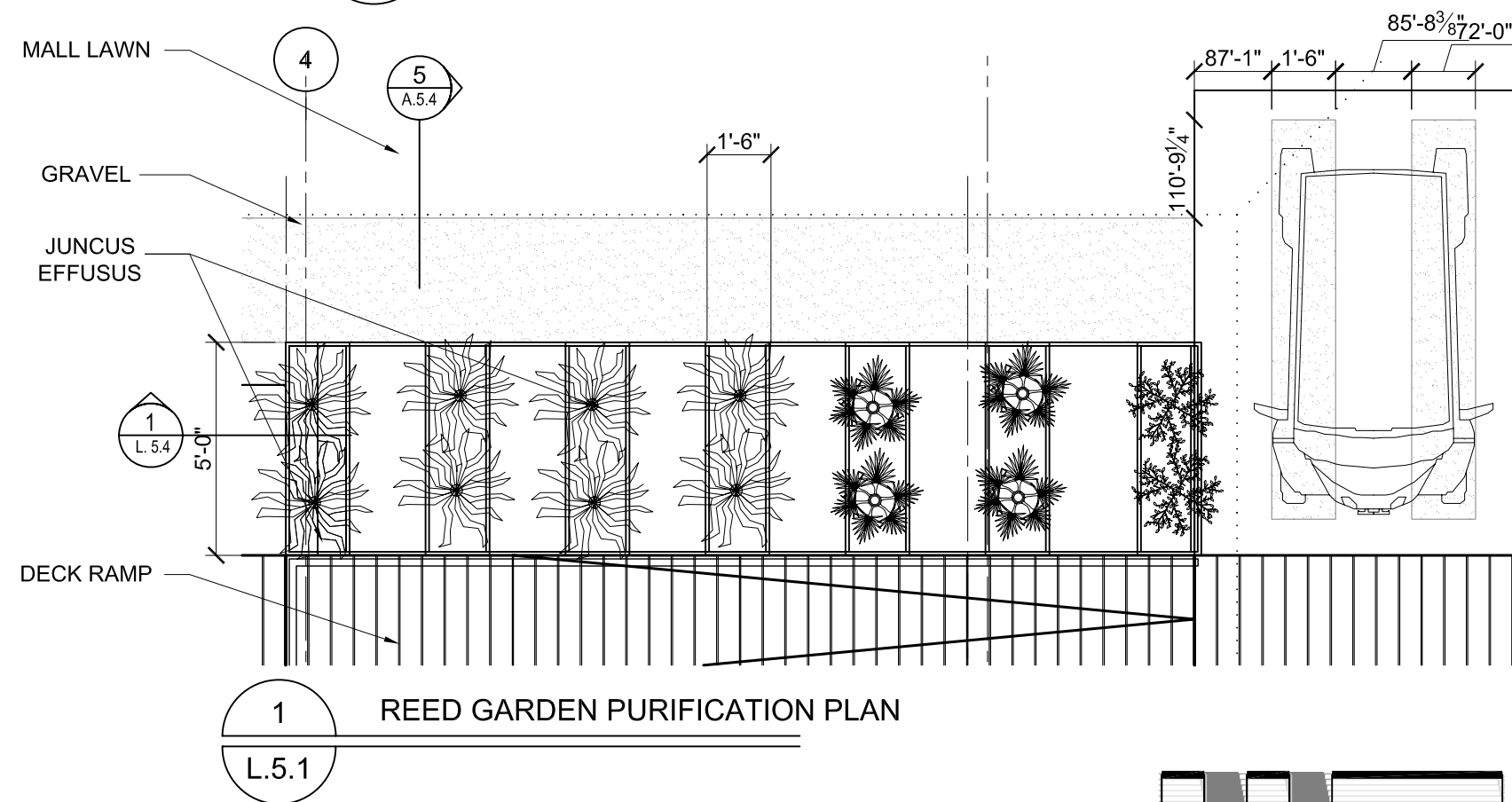
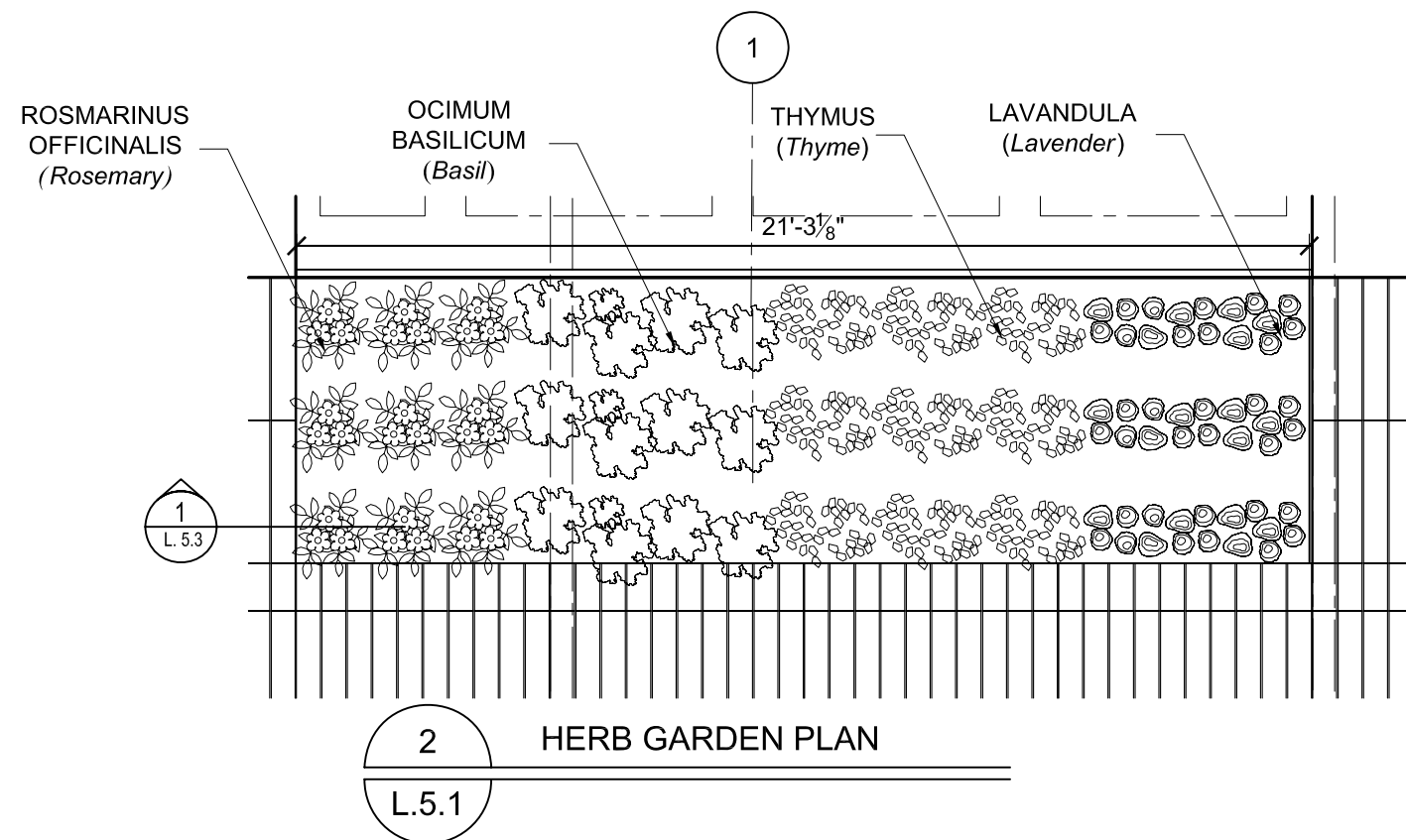
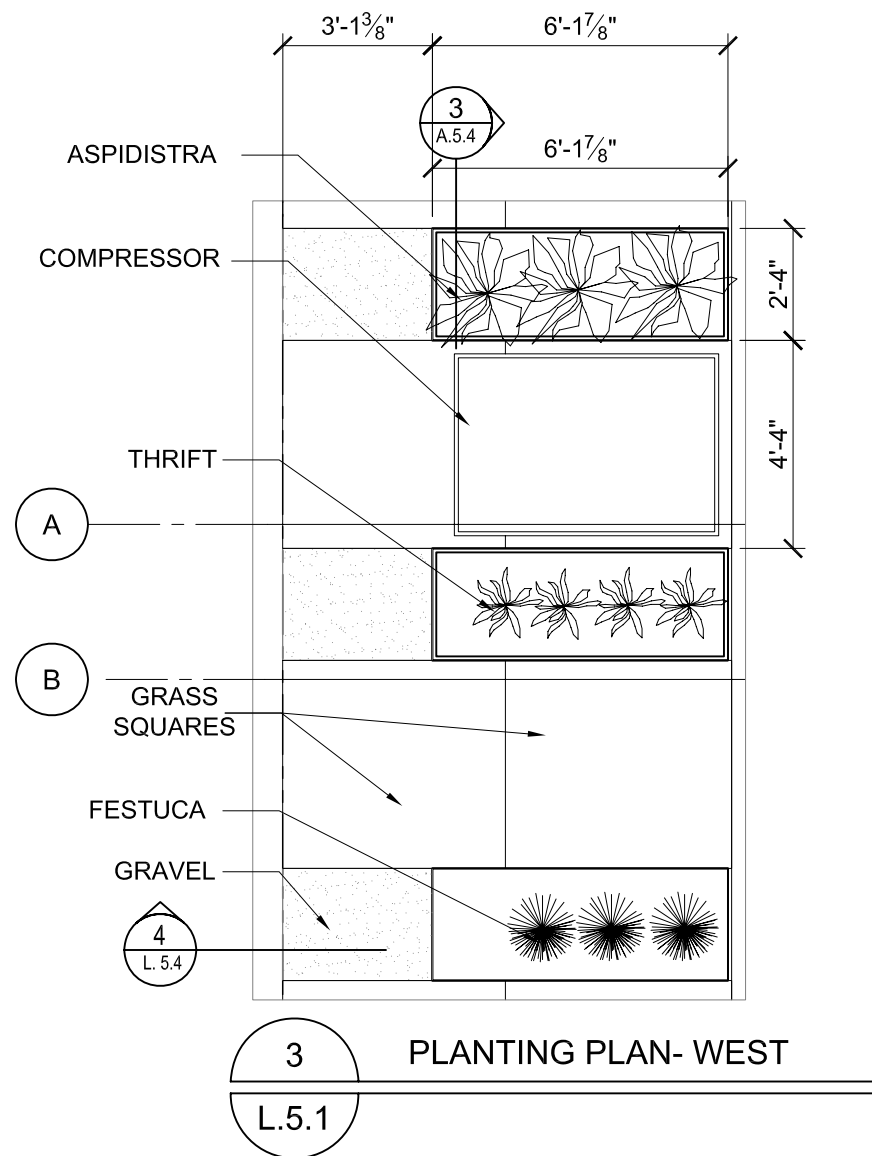


*scale:*

# L.5.0

# PLANTING PLAN





date	
description	
revision	

consultants:




prepared by:

Amanda Cook  
Barbara Hearon

date drawn:

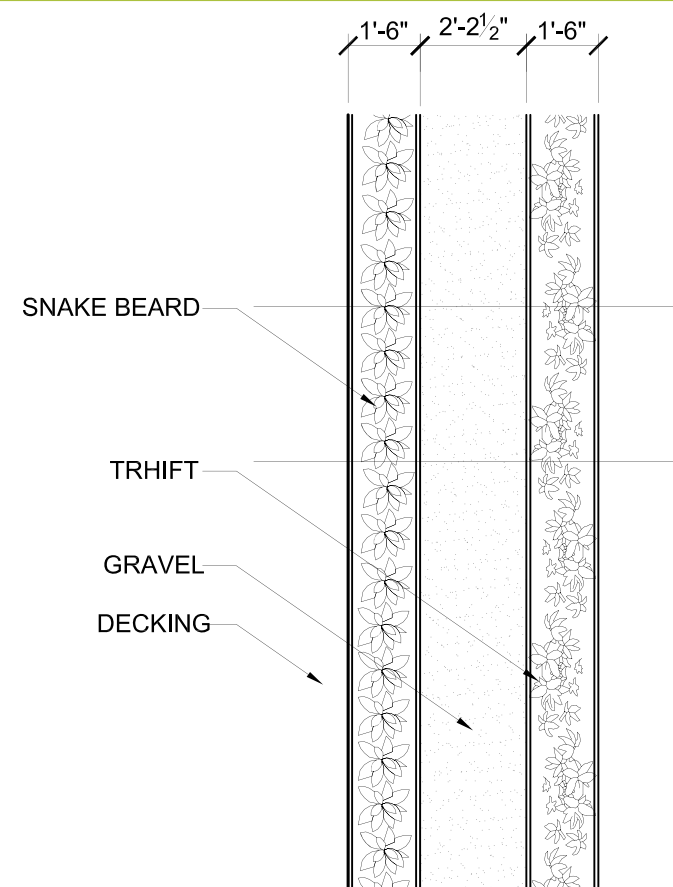
12.01.06 / 03.06.07



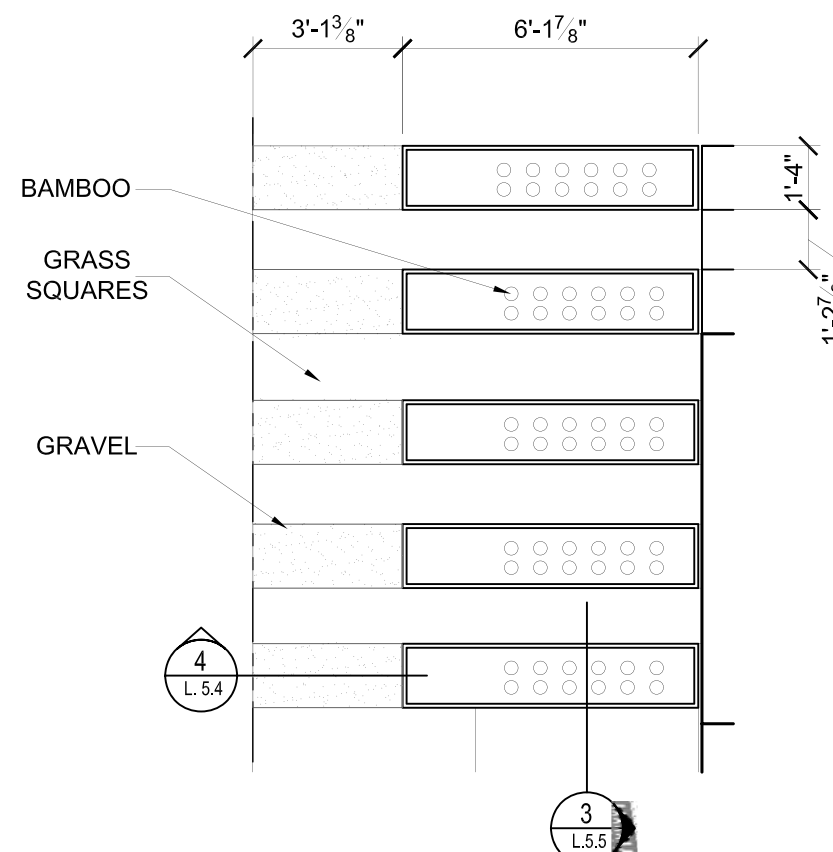
scale: 1/4" : 1' 0"

L.5.1

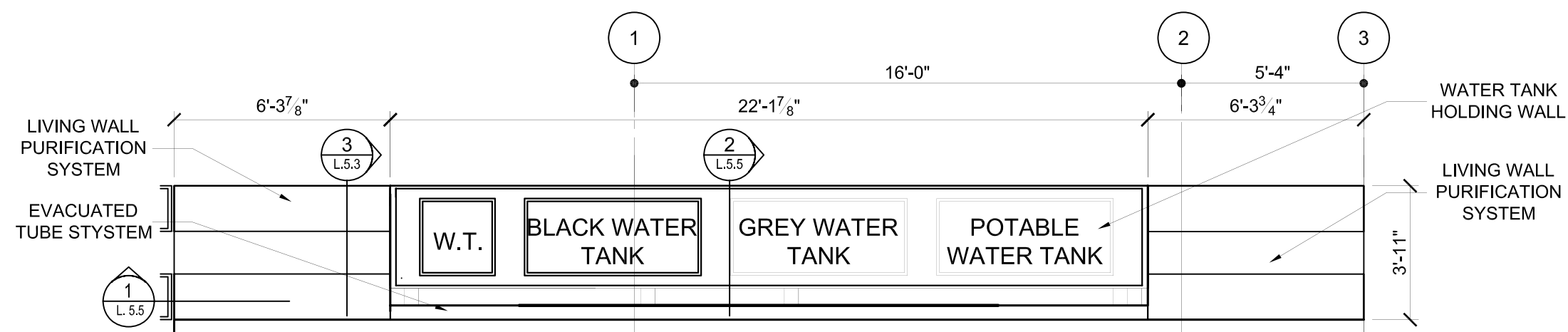
LANDSCAPE DETAILS



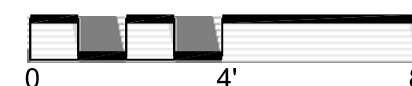
3 PLAN EAST PLANTERS - TYP.  
L.5.2



2 PLAN BAMBOO PLANTERS  
L.5.2



1 PLAN WATER TANKS/ LIVING WALLS  
L.5.2



date	
description	
revision	

consultants:




prepared by:

Amanda Cook  
Barbara Hearon

date drawn:

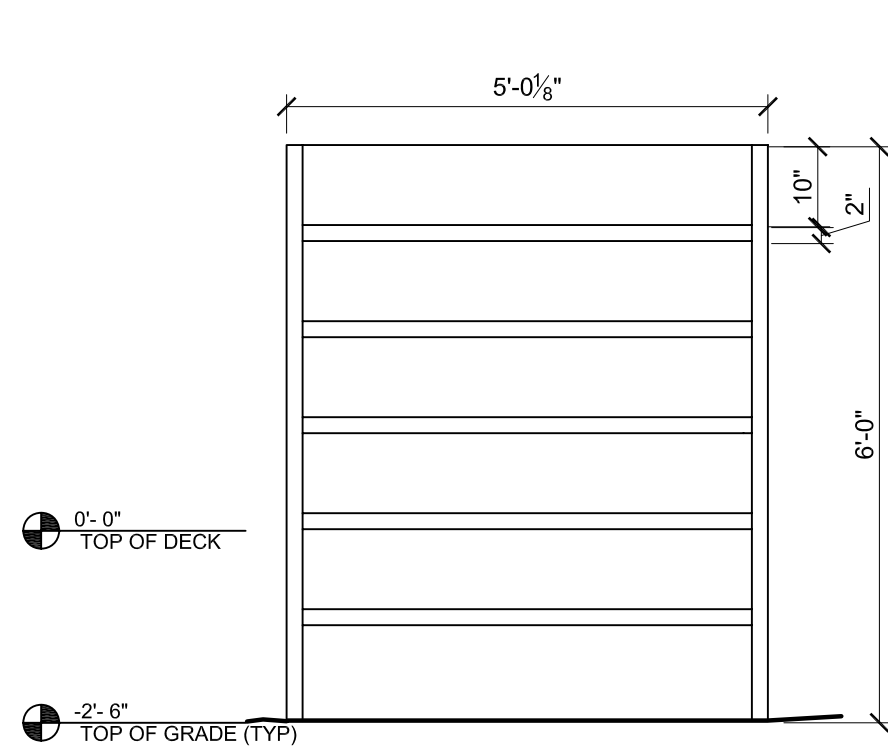
12.01.06 / 03.06.07



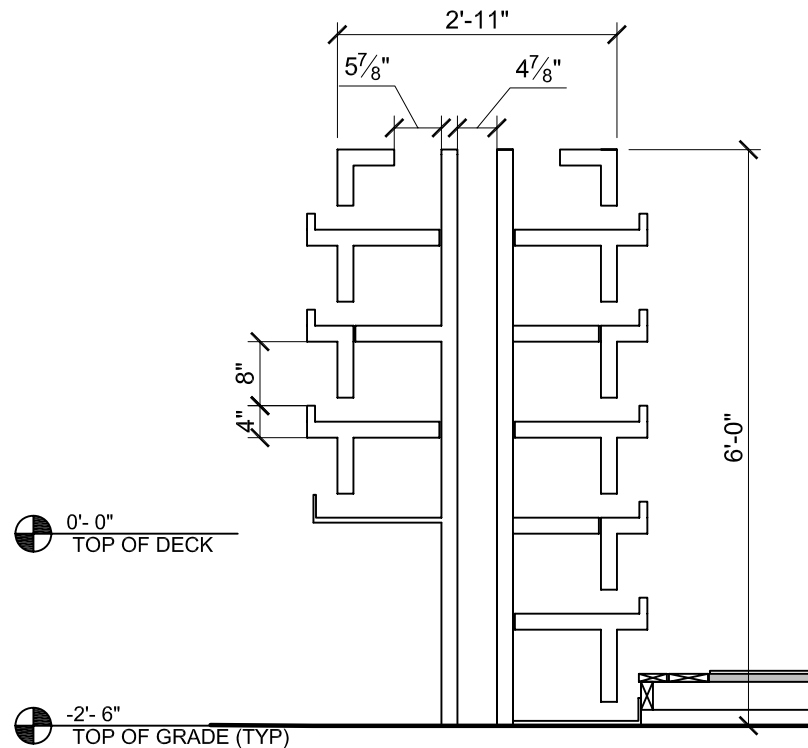
scale: 1/4" : 1' 0"

A.5.2

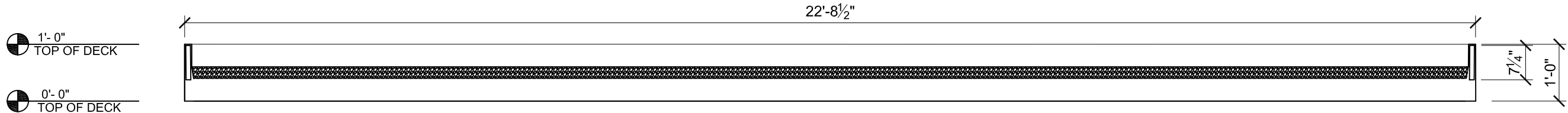
LANDSCAPE DETAILS



4 LIVING WALL SECTION  
L.5.3



3 LIVING WALL SECTION  
L.5.3



1 HERB PLANTER SECTION  
L.5.3



date	
revision	
description	

consultants:



prepared by:  
**Amanda Cook**  
**Barbara Hearon**  
date drawn:  
**12.01.06 / 03.06.07**

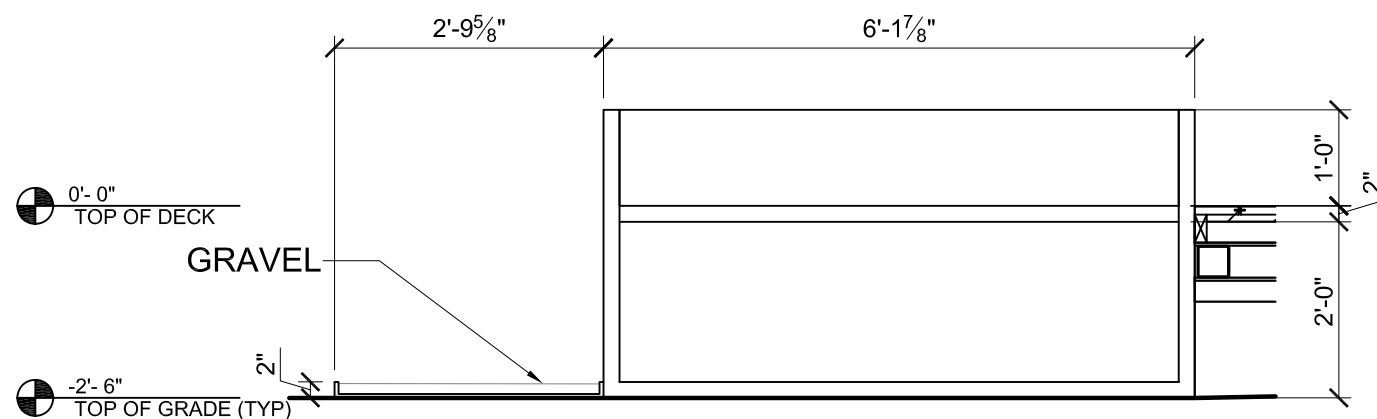


scale: **1/2" = 1' 0"**

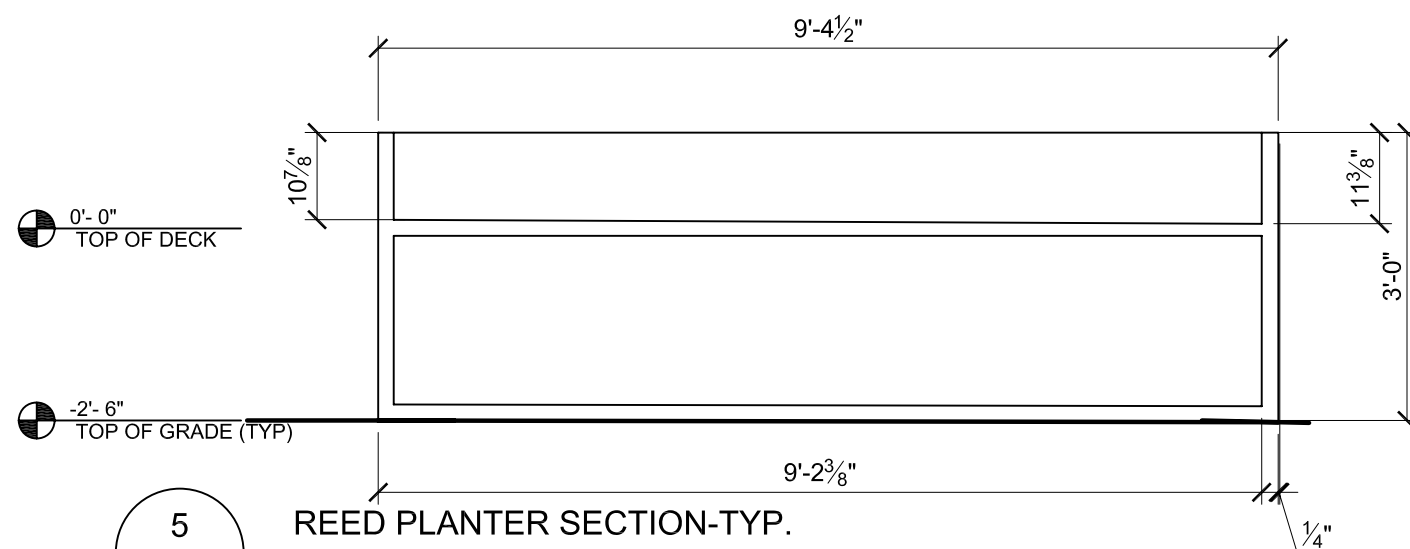
**L.5.3**

LANDSCAPING DETAILS

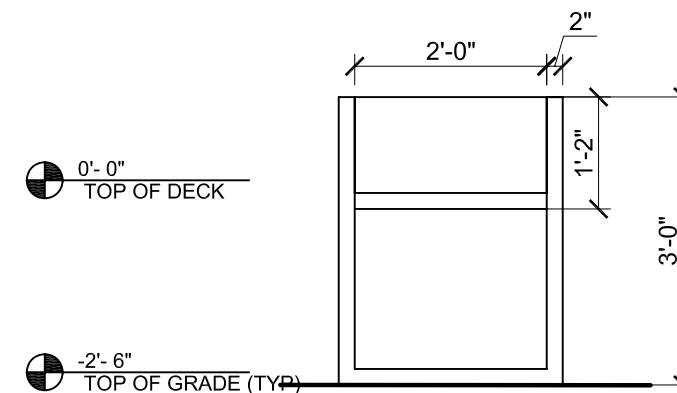




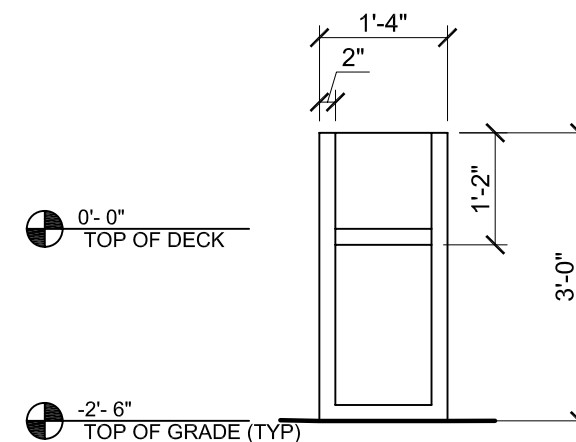
4 WESTERN PLANTER - SECTION TYP.  
L.5.4



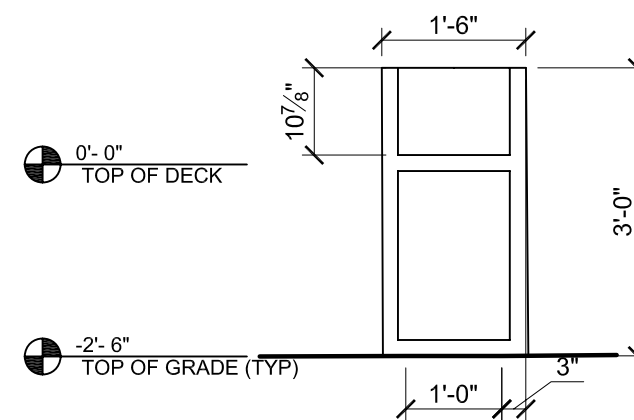
5 REED PLANTER SECTION-TYP.  
L.5.4



3 WESTERN PLANTER - TYP.  
L.5.4



2 BAMBOO PLANTER - TYP.  
L.5.4



1 REED PLANTER SECTION - TYP.  
L.5.4



date	
description	
revision	

consultants:




prepared by:

Amanda Cook  
Barbara Hearon

date drawn:

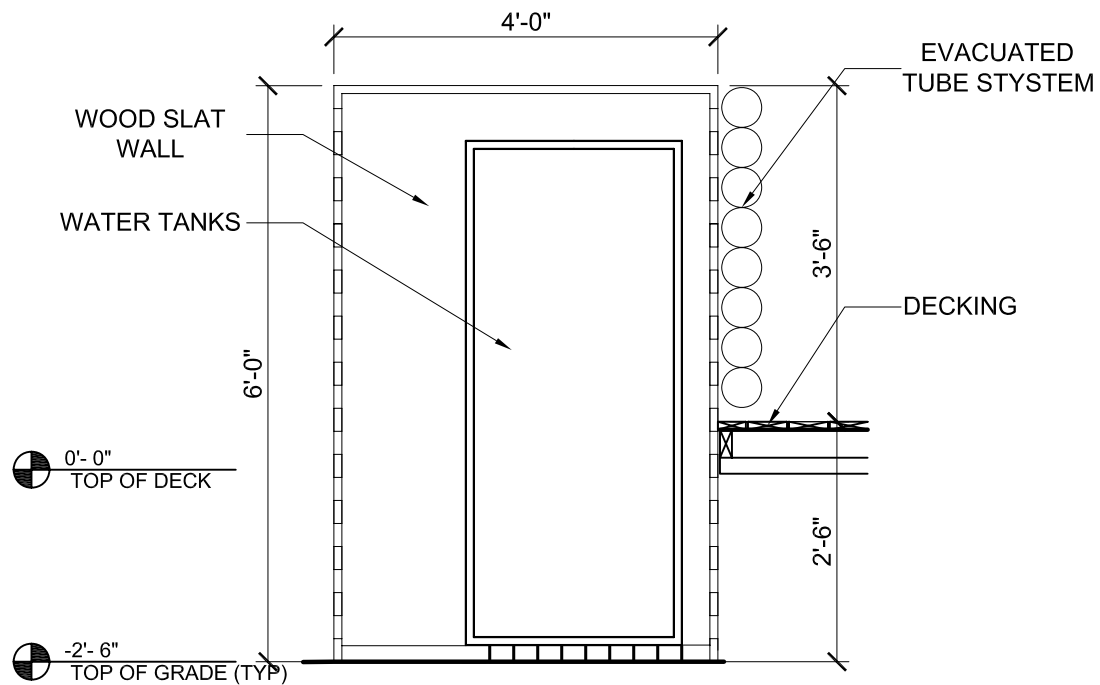
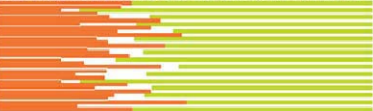
12.01.06 / 03.06.07



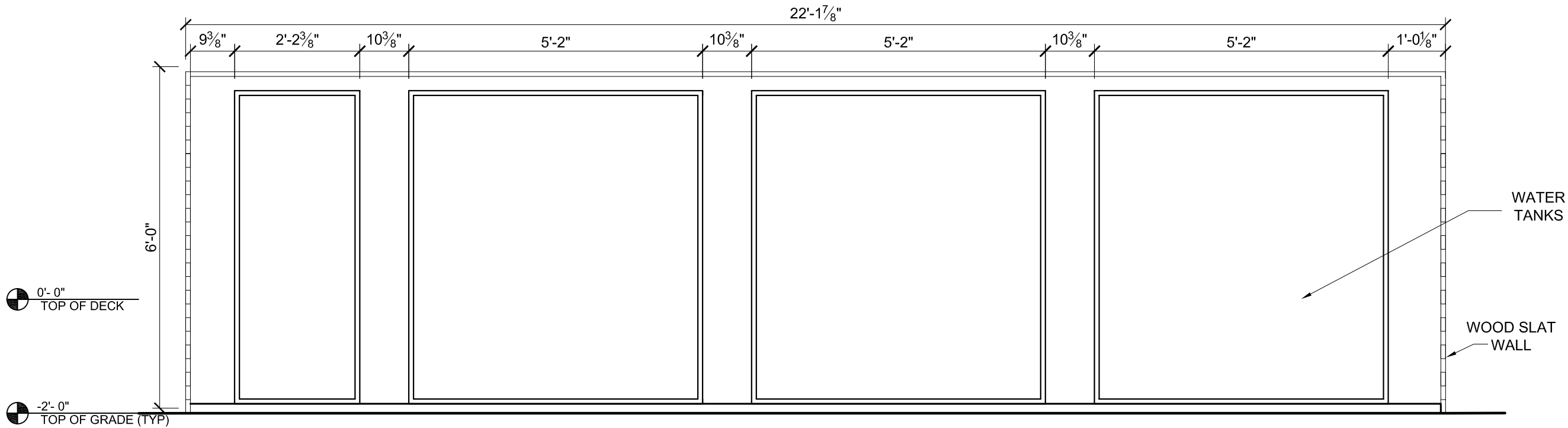
scale: 1/2" = 1' 0"

L.5.4

LANDSCAPING DETAILS



2 WATER TANK SECTION  
L.5.5



1 WATER TANK SECTION  
L.5.5



date	
description	
revision	

consultants:



prepared by:

Amanda Cook  
Barbara Hearon

date drawn:

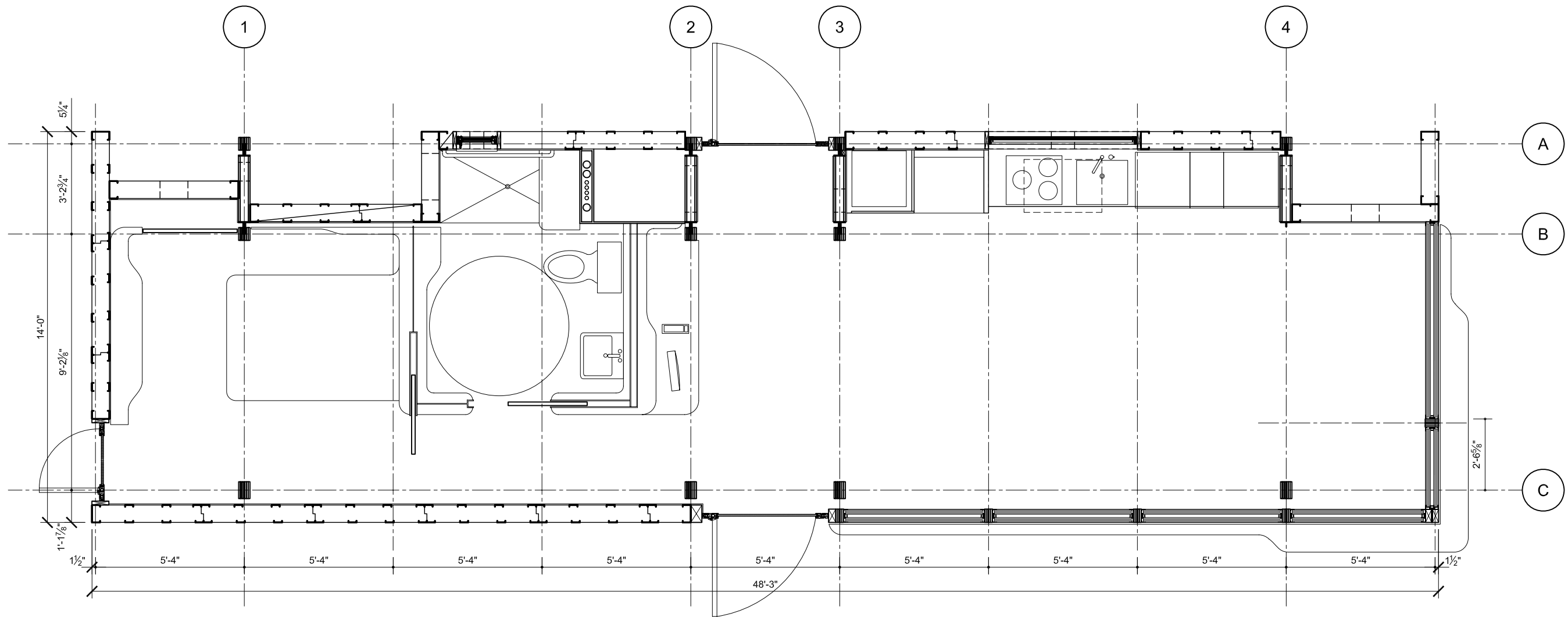
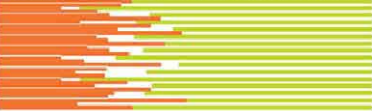
12.01.06 / 03.06.07



scale: 1/2" = 1' 0"

L.5.5

LANDSCAPING DETAILS



date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:

**Joe Jamgochian**

**Tony Piede**

**Nadine Kashlan**

date drawn:

**05.24.07**

**03.06.07**

**12.06.06**



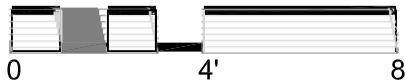
scale: 1/4"= 1'-0"

**A.1.0**

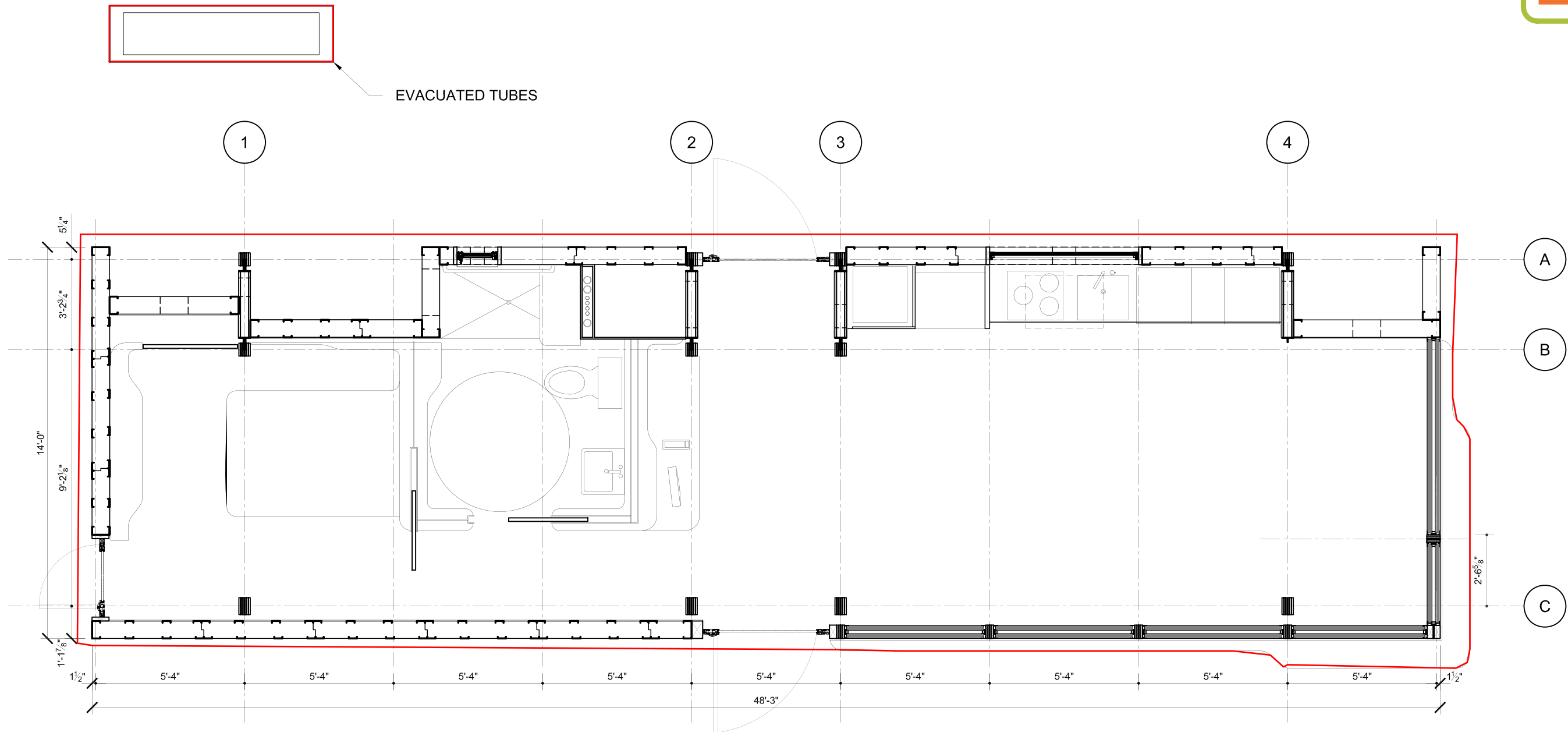
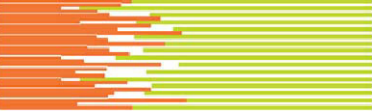
**FLOOR PLAN**

**1 FLOOR PLAN**

**A.1.0**







date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:

**Joe Jamgochian**

**Tony Piede**

**Nadine Kashlan**

date drawn:

**05.24.07**

**03.06.07**

**12.06.06**



scale: 1/4"= 1'-0"

AREA CALCULATION

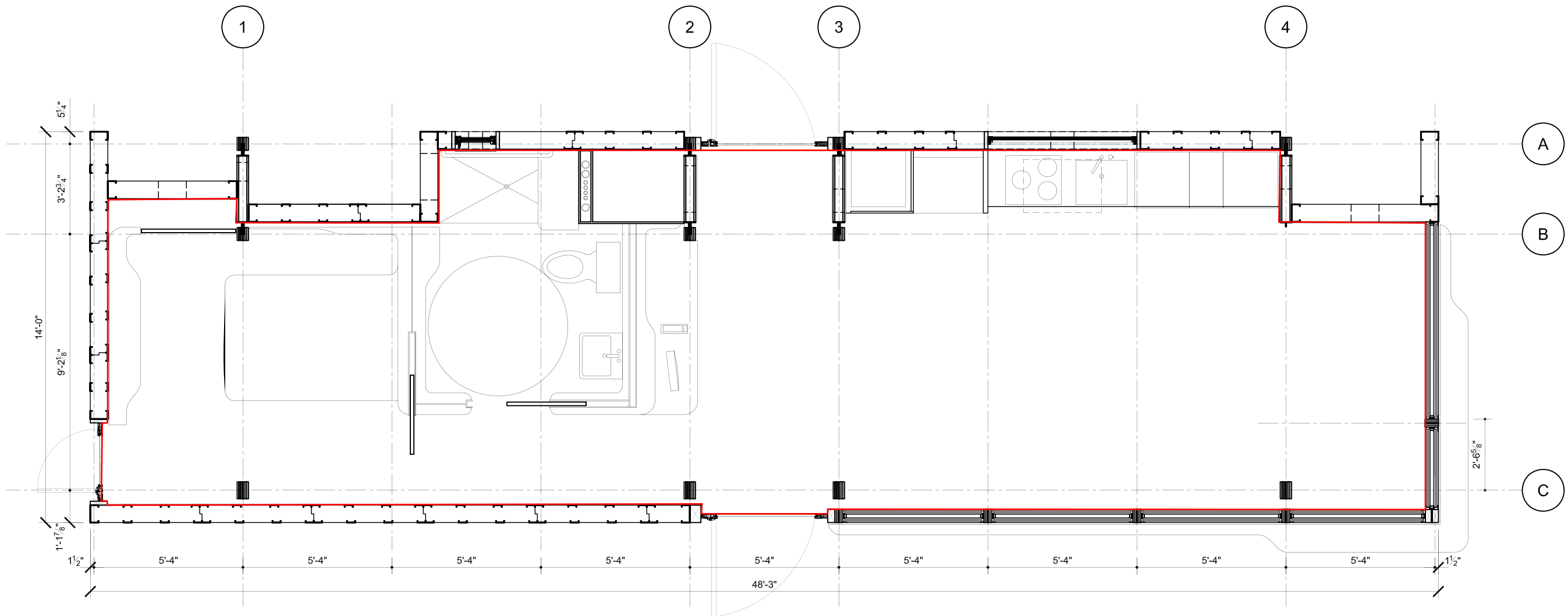
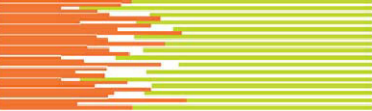
1 AREA CALCULATION

A.1.0a

gtg383y	8/6/2007 3:37:09 AM
Area Measurement	
Area:	
738.80 sq ft	

gtg383y	8/5/2007 1:55:41 PM
Area Measurement	
Area:	
16.03 sq ft	





date

description

revision

consultants:



prepared by:

Joe Jamgochian  
Tony Piede  
Nadine Kashlan

date drawn:

05.24.07

03.06.07

12.06.06



scale: 1/4" = 1'-0"

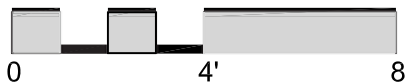
CONDITIONED AREA CALCULATION

1  
A.1.0.b

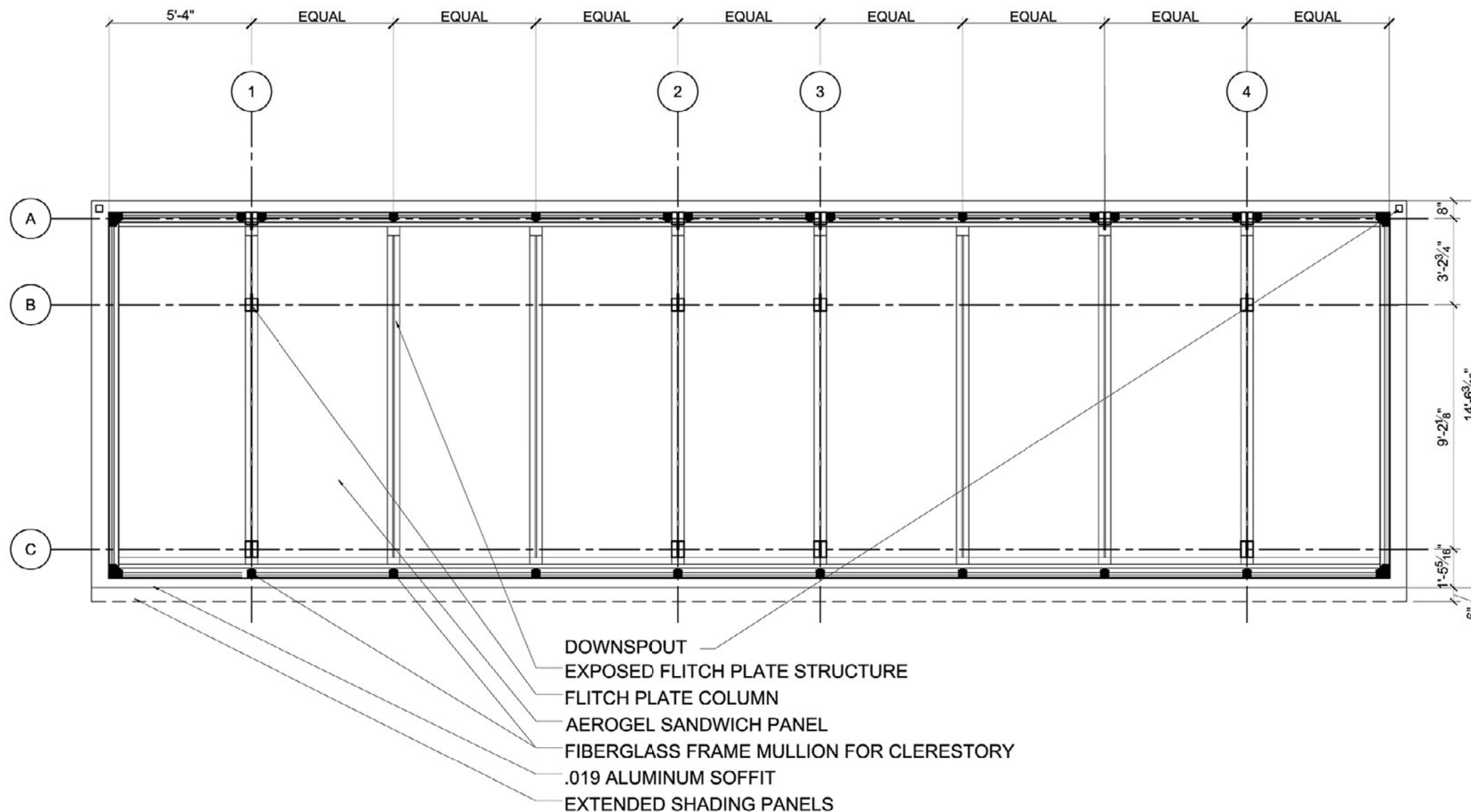
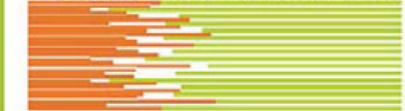
## CONDITIONED AREA CALCULATION

gtg383y 8/5/2007 11:26:40 AM  
Area Measurement

Area:  
563.86 sq feet



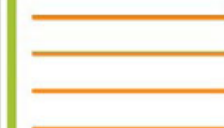
A.1.0b



A1 REFLECTED CEILING PLAN  
A.1.1

date	
revision	
description	

consultants:



prepared by:  
**Alstan Jakubiec**  
date drawn:  
12.04.06  
03.03.07

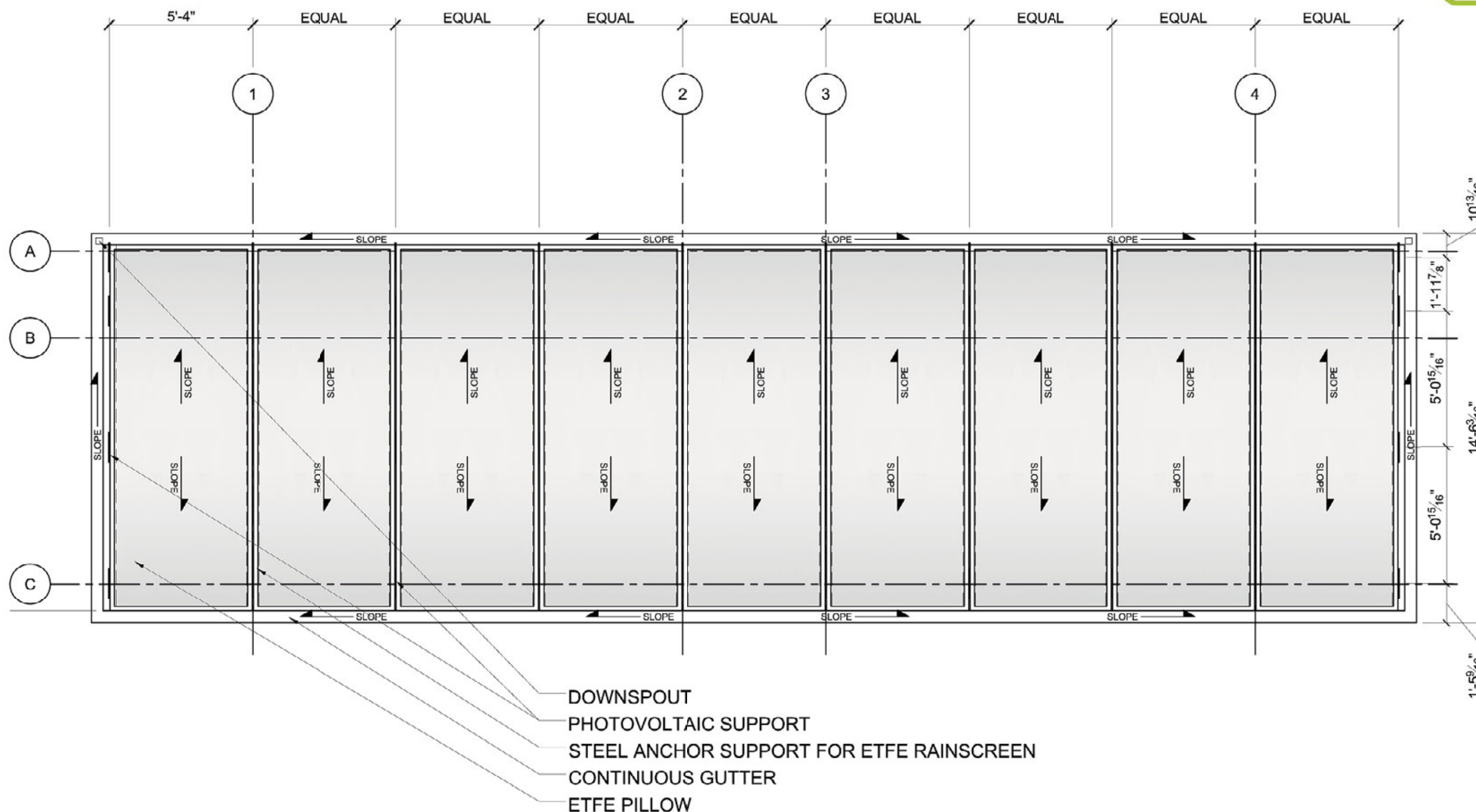


scale: 1/4" : 1' 0"

REFLECTED CEILING PLAN

A.1.1





A1 ROOF PLAN AT THE LEVEL OF THE ETFE  
A.1.2



date	
revision	
description	

consultants:



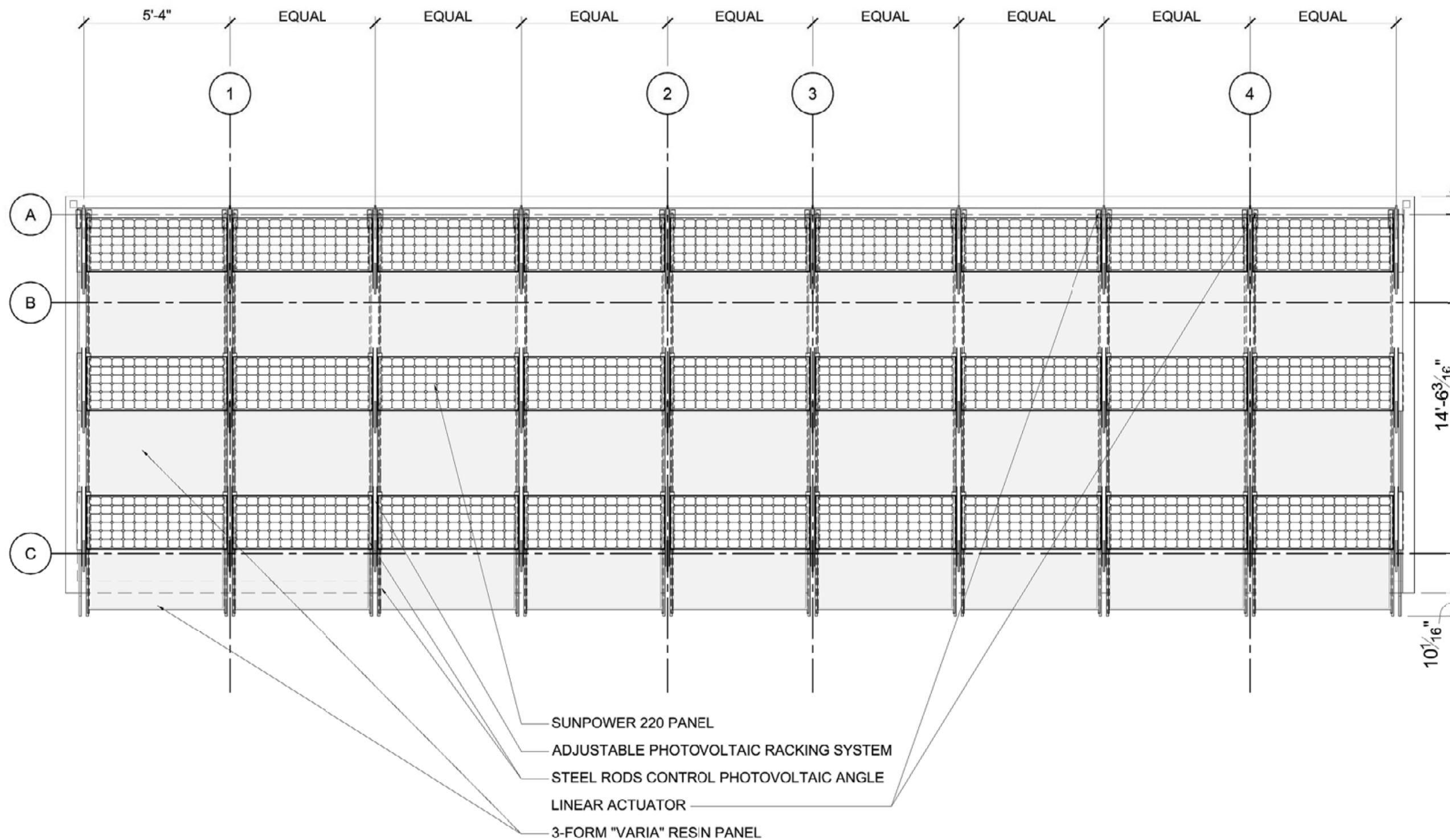
prepared by:  
Aistan Jakubiec  
date drawn:  
12.04.06



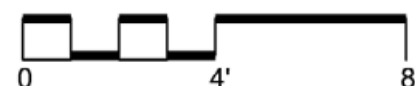
scale: 1/4" : 1' 0"

A.1.2

ROOF PLAN AT ETFE



A1 ROOF PLAN AT PV ARRAY  
A.1.3



date	
description	
revision	

consultants:



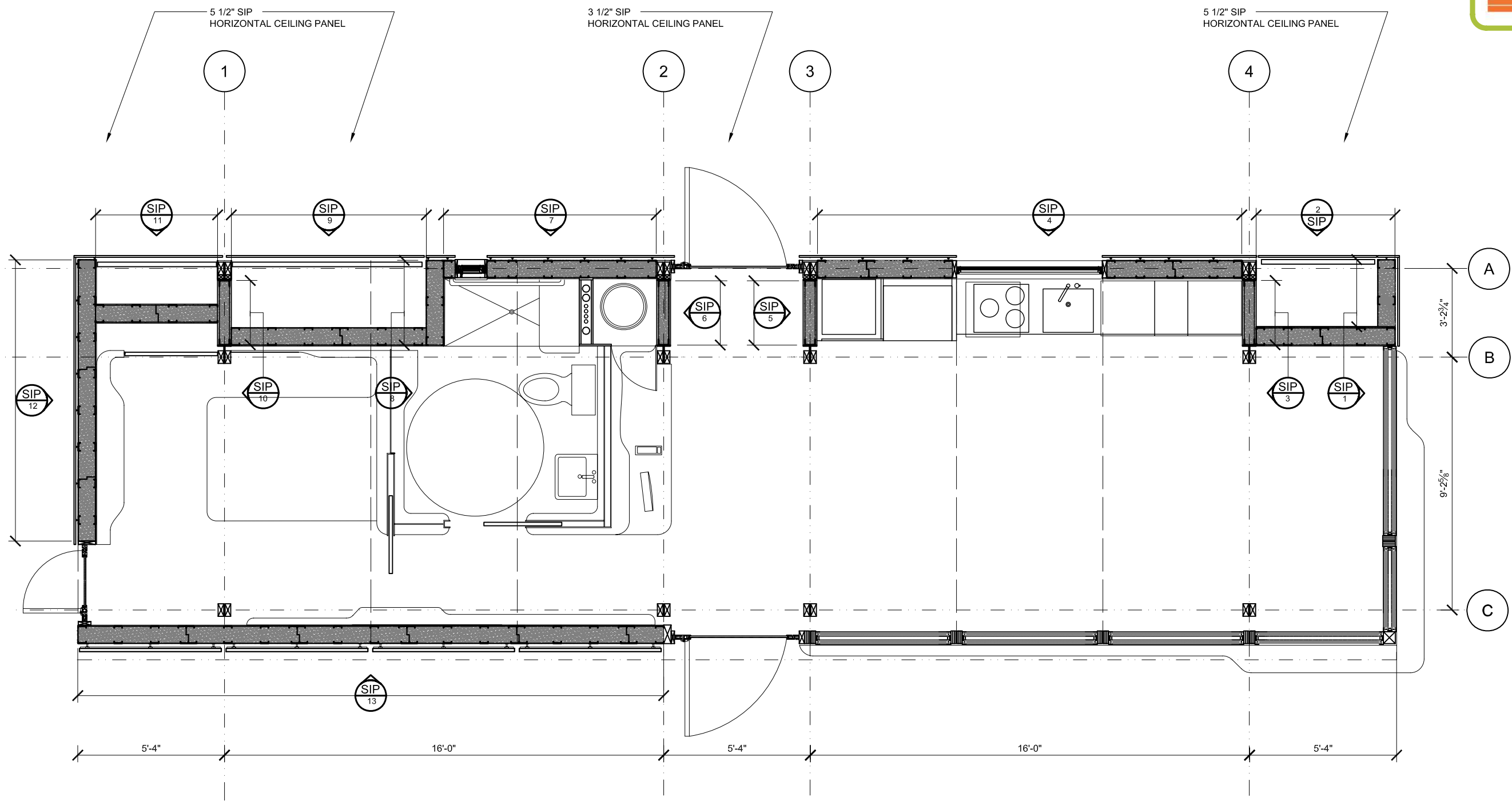
prepared by:  
**Alstan Jakubiec**  
date drawn:  
**12.04.06**  
**03.03.07**



scale: **1/4" : 1' 0"**

**A.1.3**

ROOF PLAN AT PV ARRAY



1 FLOOR PLAN w/ SIP FABRICATION TAGS  
A.1.4

- NOTES
1. ALL VERTICAL PANELS 7 1/2" SIP EXCEPT SHEAR PANELS WHERE LABELED.
  2. ALL HORIZONTAL CEILING PANELS 5 1/2" SIP.
  3. ALL ELEVATIONS FROM OUTSIDE OF HOUSE EXCEPT SIPs 5 AND 6.



date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Tony Piede**  
**Joe Jamgochian**  
date drawn:  
**05.08.07**

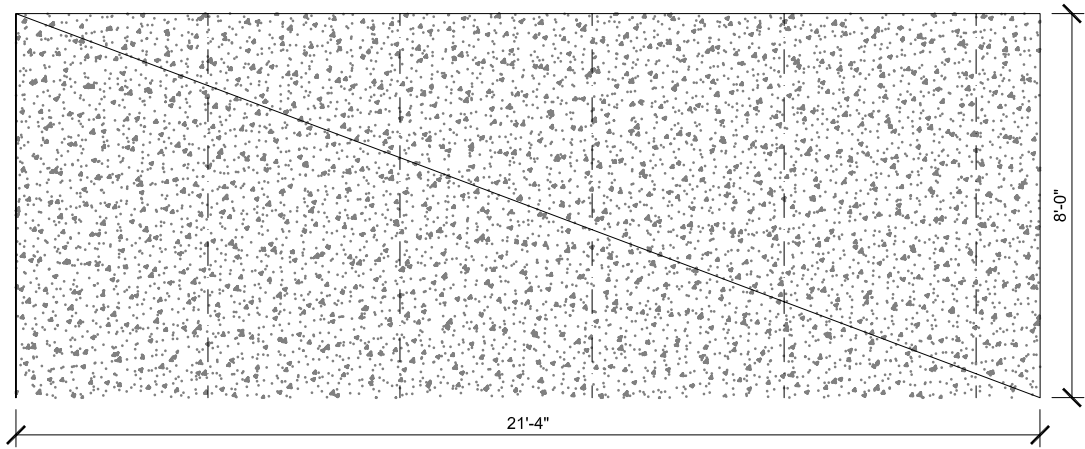


scale: 1/4"= 1'-0"

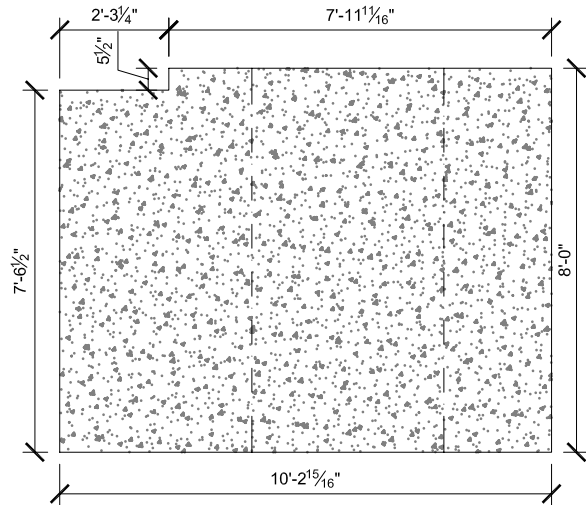
SIP FABRICATION PLAN (THERMASTEEL)

A.1.4

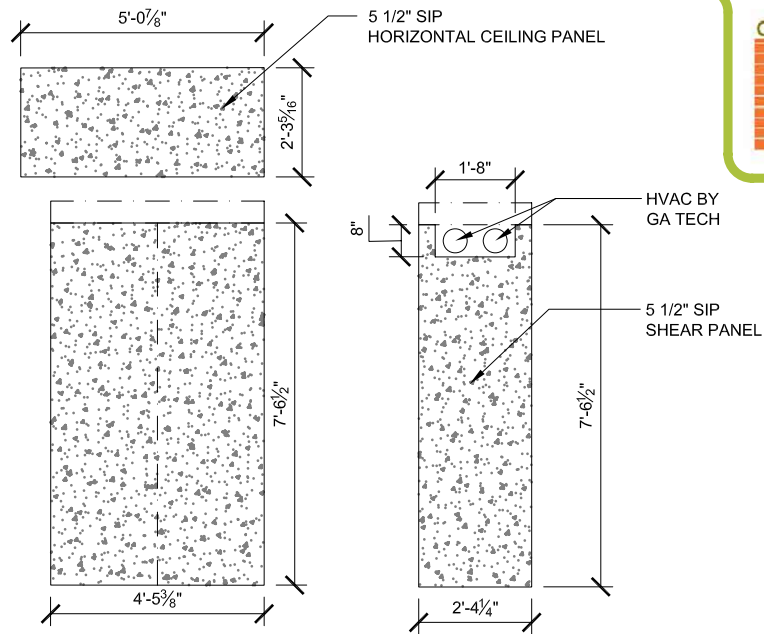




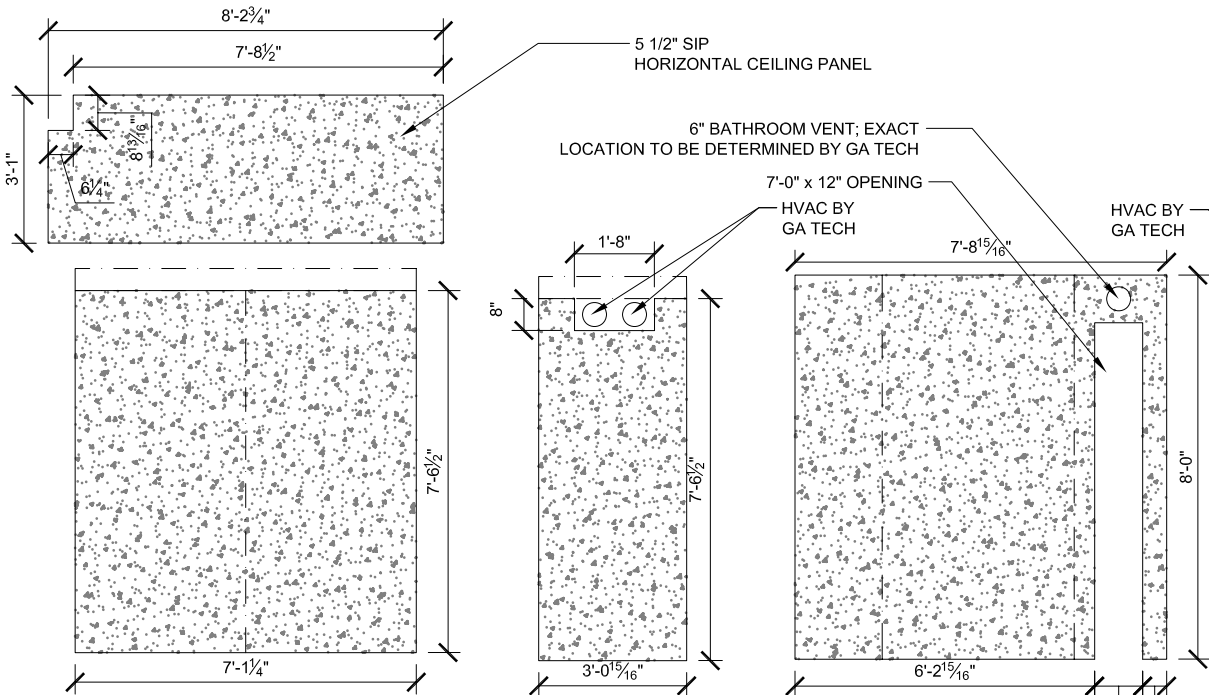
SIP 13 SOUTH ELEVATION WALL



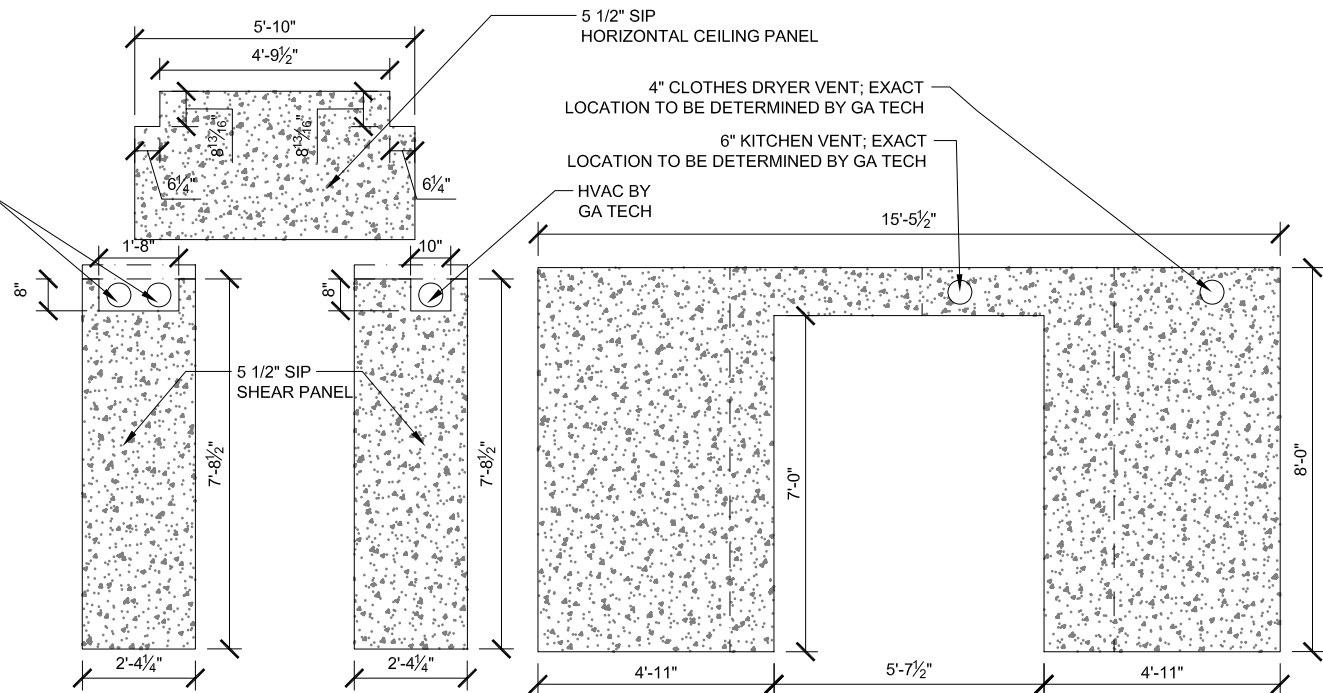
SIP 12 WEST ELEVATION WALL



SIP 11 DRAWING  
SIP 10 DRAWING



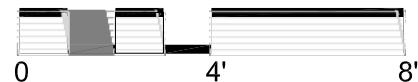
SIP 9 DRAWING  
SIP 8 DRAWING  
SIP 7 DRAWING



SIP 6 DRAWING  
SIP 5 DRAWING  
SIP 4 DRAWING

#### NOTES

1. ALL VERTICAL PANELS 7 1/2" SIP EXCEPT SHEAR PANELS WHERE LABELED.
2. ALL HORIZONTAL CEILING PANELS 5 1/2" SIP.
3. ALL ELEVATIONS FROM OUTSIDE OF HOUSE EXCEPT SIPs 5 AND 6.



date	
description	
revision	

consultants:



prepared by:  
**Tony Piede**  
**Joe Jamgochian**  
date drawn:  
**05.08.07**

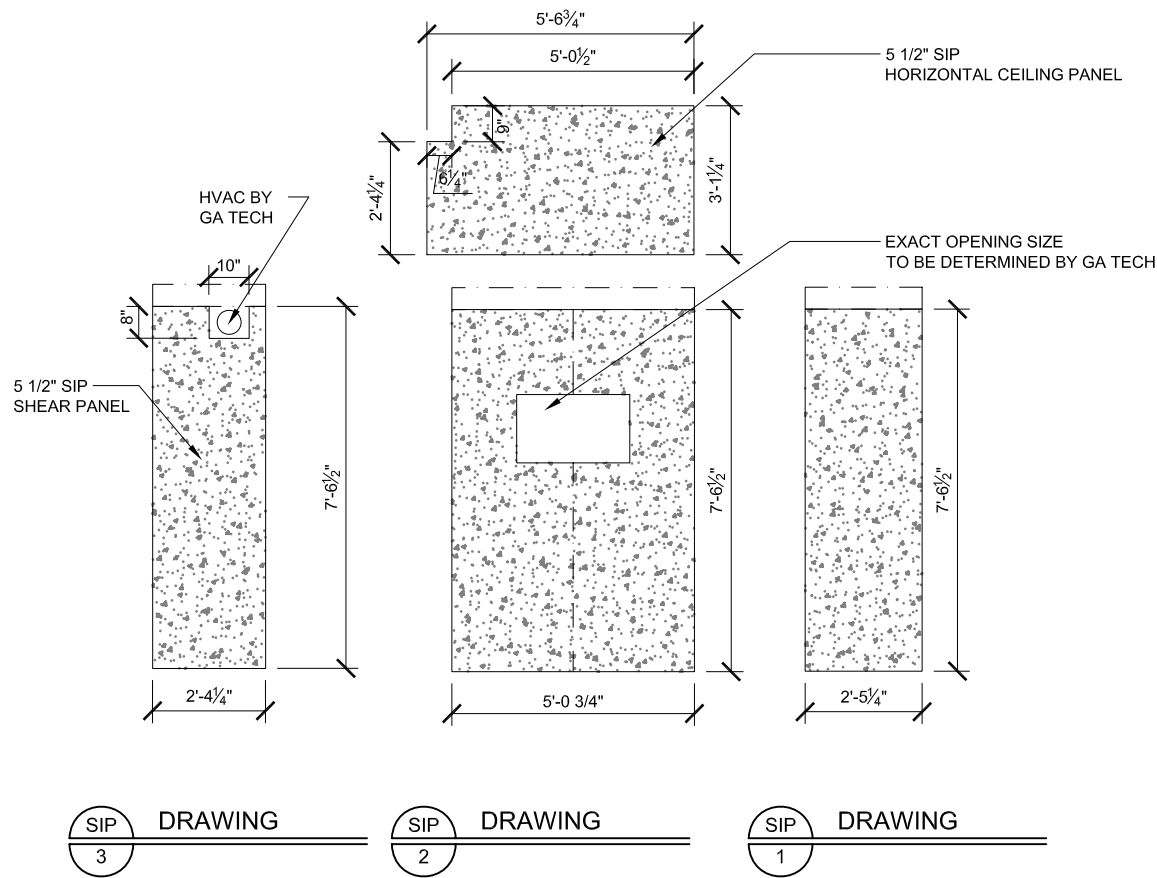
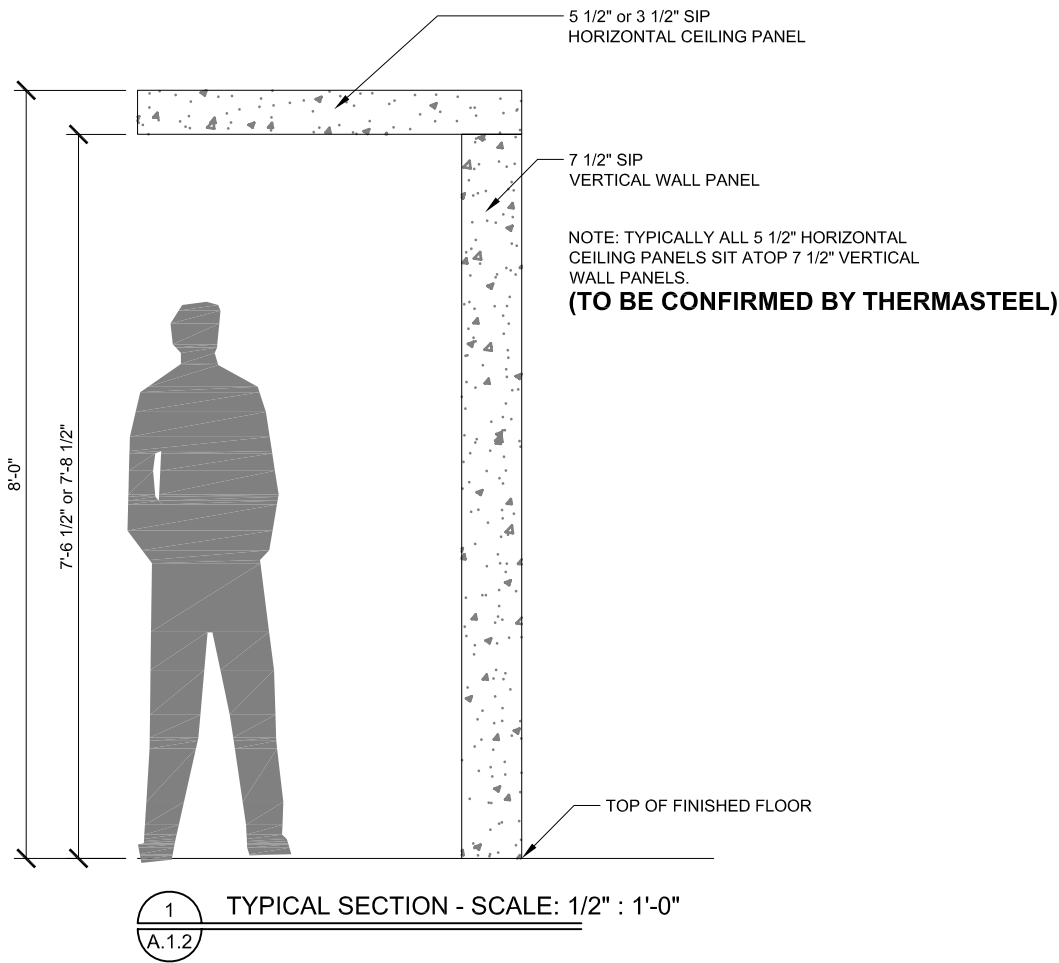


scale: 1/4" = 1'-0"

A.1.4.a

SIP FABRICATION ELEVATIONS (THERMASTEEL)





#### NOTES

1. ALL VERTICAL PANELS 7 1/2" SIP EXCEPT SHEAR PANELS WHERE LABELED.
2. ALL ELEVATIONS FROM OUTSIDE OF HOUSE EXCEPT SIPs 5 AND 6.



date	
description	
revision	

consultants:



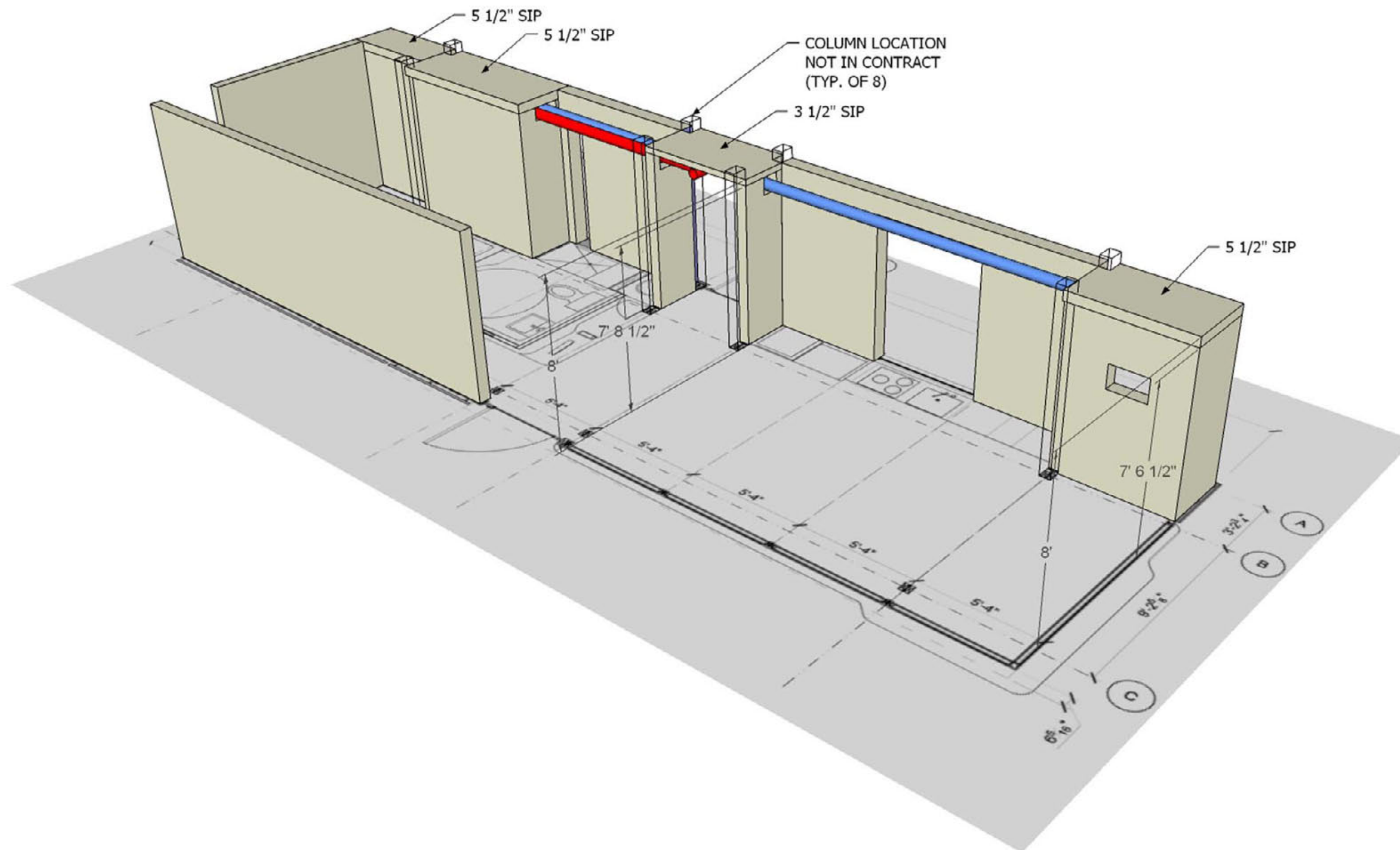
prepared by:  
**Tony Piede**  
**Joe Jamgochian**  
date drawn:  
**05.08.07**



scale: 1/4" = 1'-0"

A.1.4.b

SIP FABRICATION ELEVATIONS (THERMASTEEL)



date

description

revision

consultants:



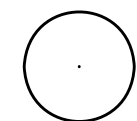
prepared by:

**Tony Piede**

**Joe Jamgochian**

date drawn:

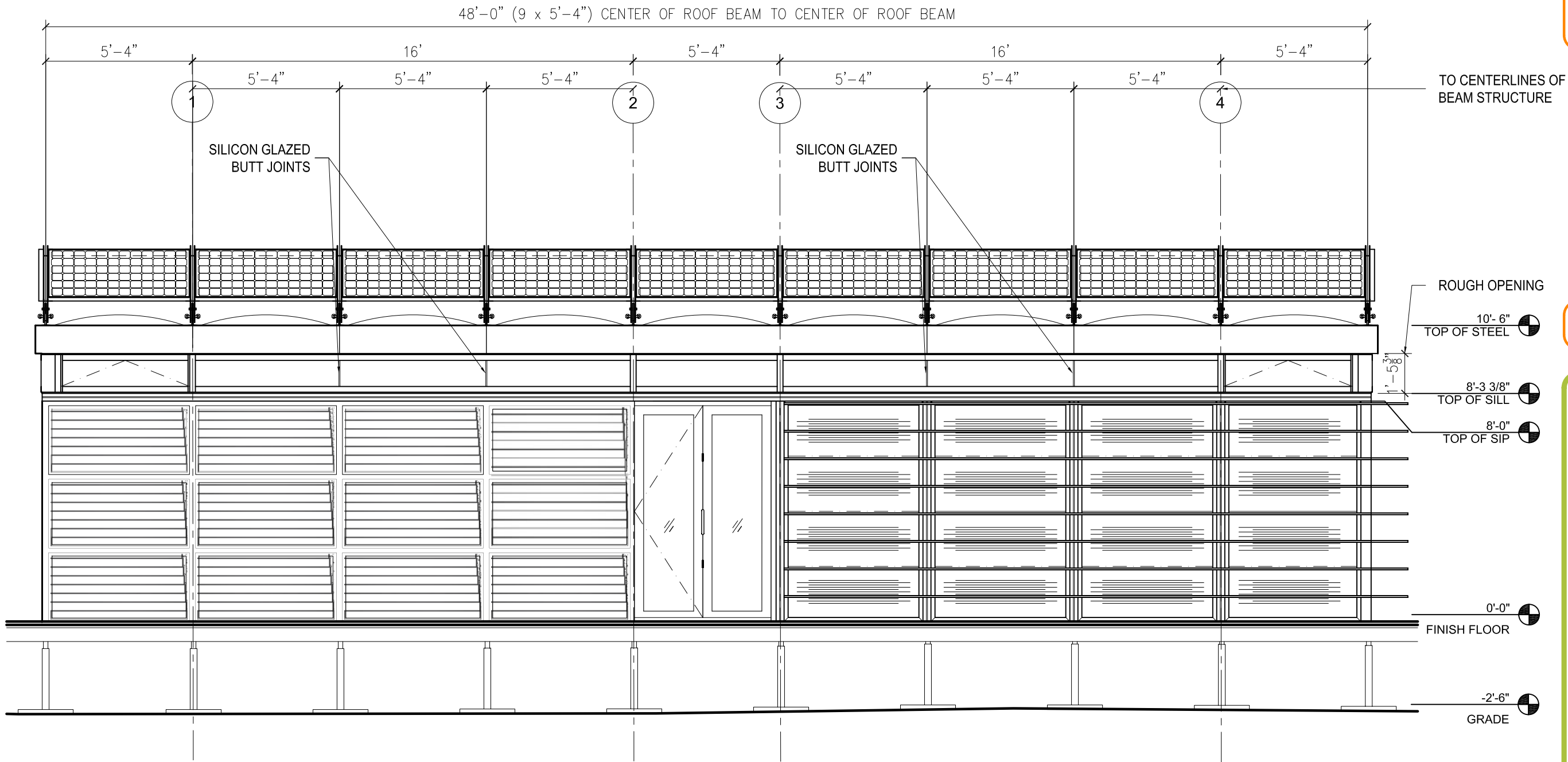
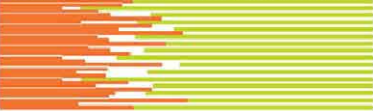
**05.08.07**



scale: **N.T.S.**

SIP FABRICATION MODEL (THERMASTEEL)

A.1.4.C



date	06.01.07	06.21.07
------	----------	----------

description	clerestory revisions	annotation changes as per June 21
-------------	----------------------	-----------------------------------

revision	A	B
----------	---	---

consultants:



prepared by:

C. Luchian  
A. Jakubiec  
J. Jamgochian

date drawn:

11.25.06  
03.03.07  
04.20.07  
05.18.07

scale: 1/4" : 1' 0"

A.2.0

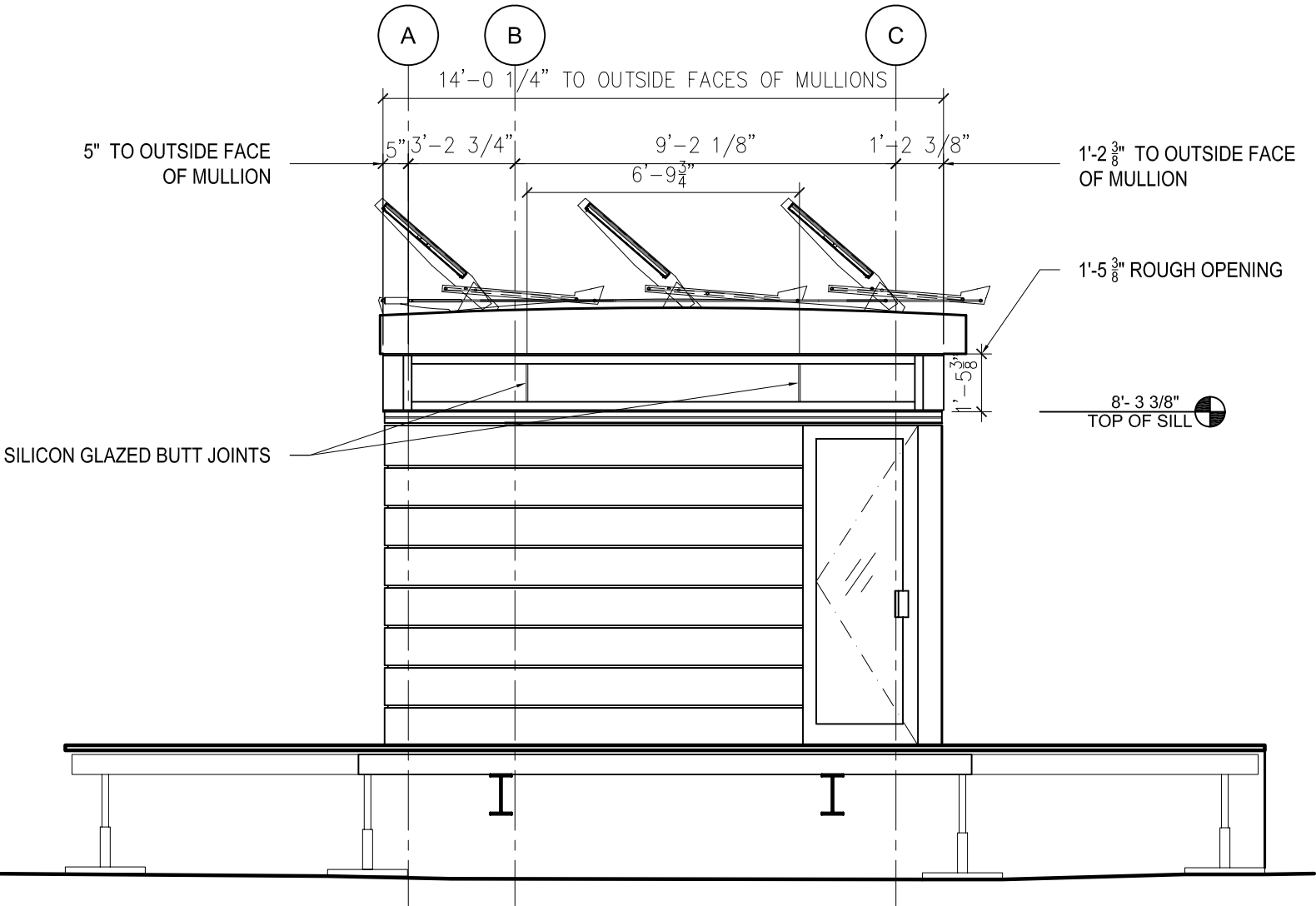
EXTERIOR ELEVATIONS: SOUTH

10'-6"  
TOP OF STEEL

8'-0"  
TOP OF SIP

0'-0"  
FINISH FLOOR

-2'-6"  
GRADE



1  
A.2.1

WEST ELEVATION



revision	description	date
A	clerestory revisions	06.01.07
B	annotation changes as per June 21	06.21.07

consultants:



prepared by:

C. Luchian  
A. Jakubiec  
D. Lott

date drawn:

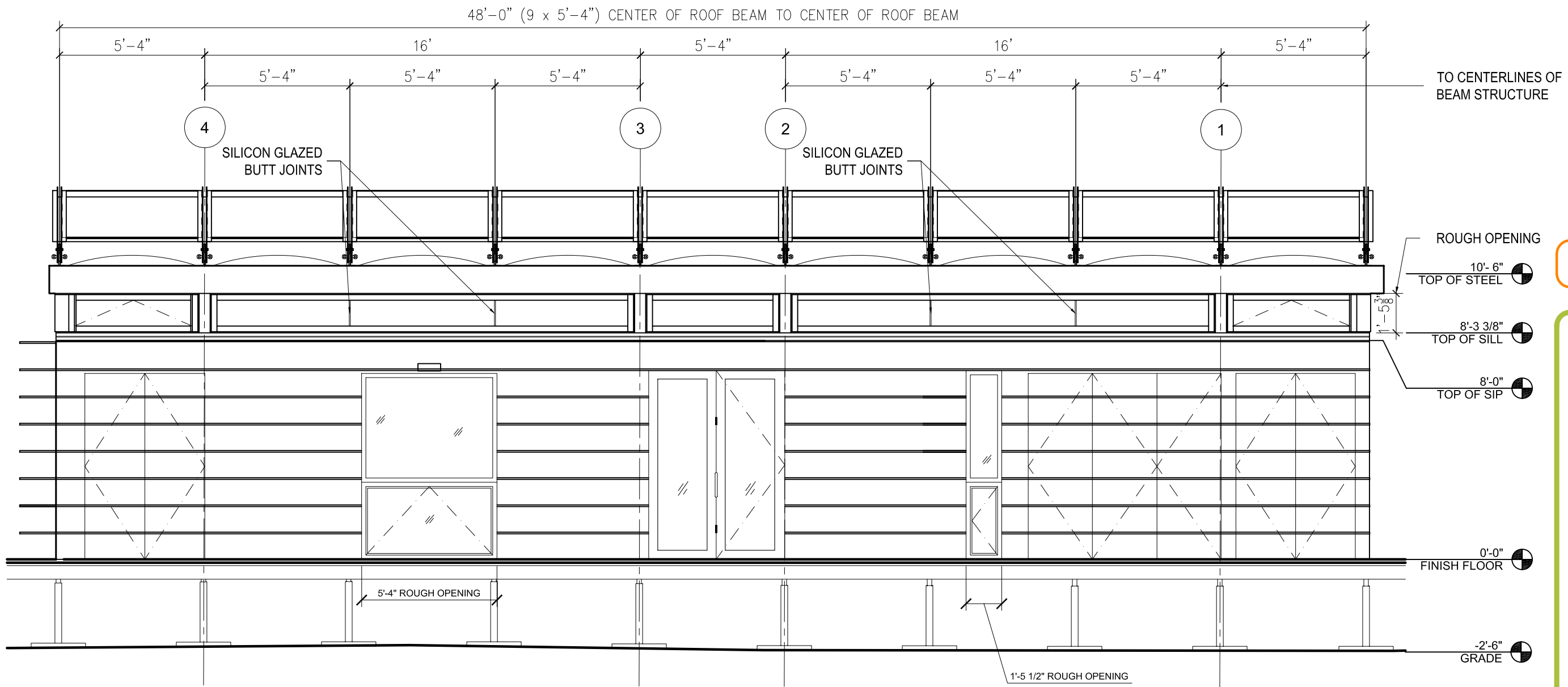
11.25.06  
03.03.07  
04.20.07

scale: 1/4" : 1' 0"

A.2.1

EXTERIOR ELEVATIONS: WEST





date	06.01.07	06.21.07
description	clerestory revisions	annotation changes as per June 21
revision	A	B

consultants:



prepared by:

C. Luchian  
A. Jakubiec  
J. Jamgochian

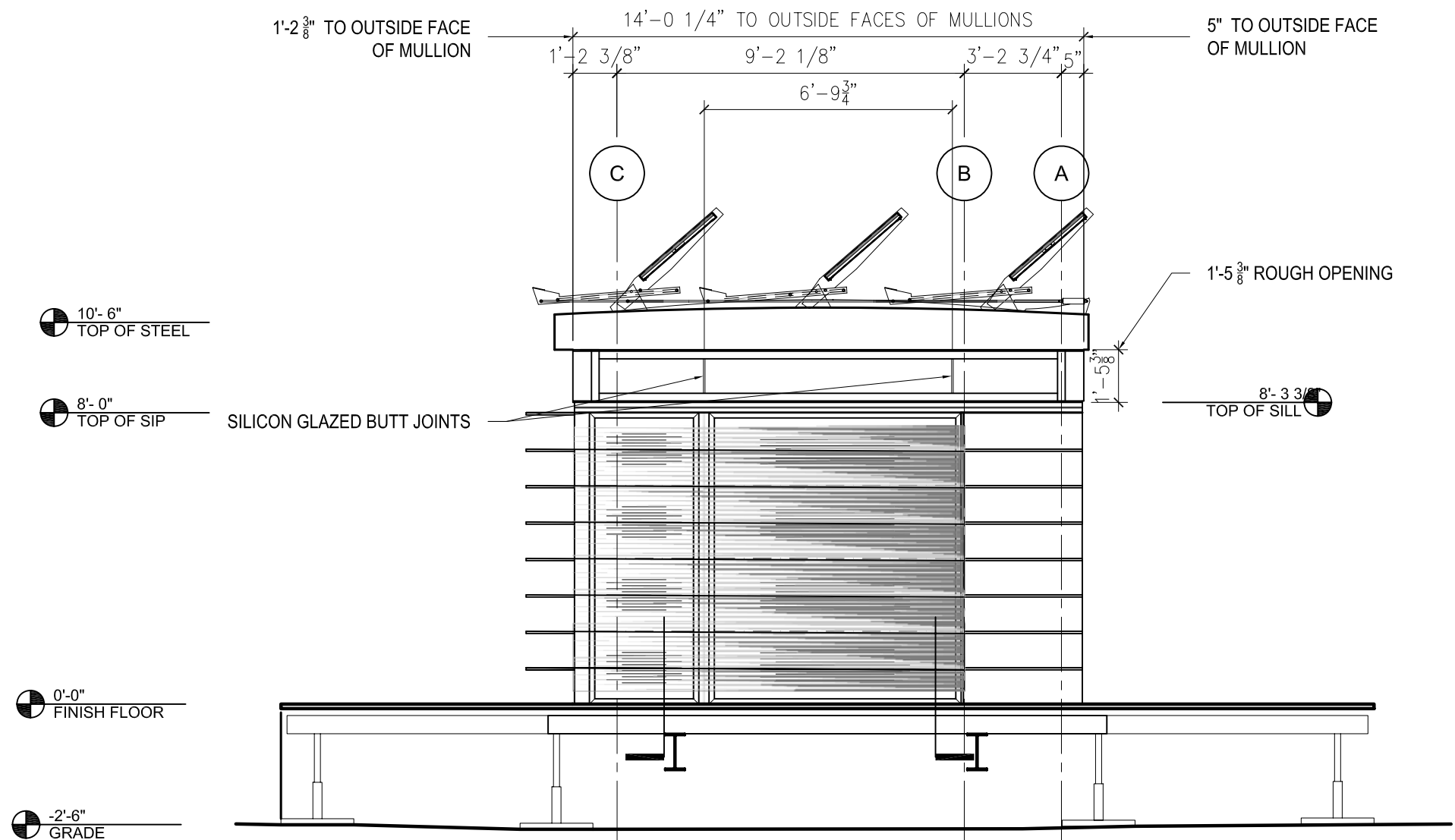
date drawn:

11.25.06  
03.03.07  
04.20.07  
05.18.07

scale: 1/4" : 1' 0"

A.2.2

EXTERIOR ELEVATIONS: NORTH



1 EAST ELEVATION  
A.2.3



revision	description	date
A	clerestory revisions	06.01.07
B	annotation changes as per June 21	06.21.07

consultants:



prepared by:

C. Luchian  
A. Jakubiec  
J. Jamgochian

date drawn:

11.25.06  
03.03.07  
04.20.07  
05.18.07

scale: 1/4" : 1' 0"

A.2.3

EXTERIOR ELEVATIONS: EAST



date

description

revision

consultants:



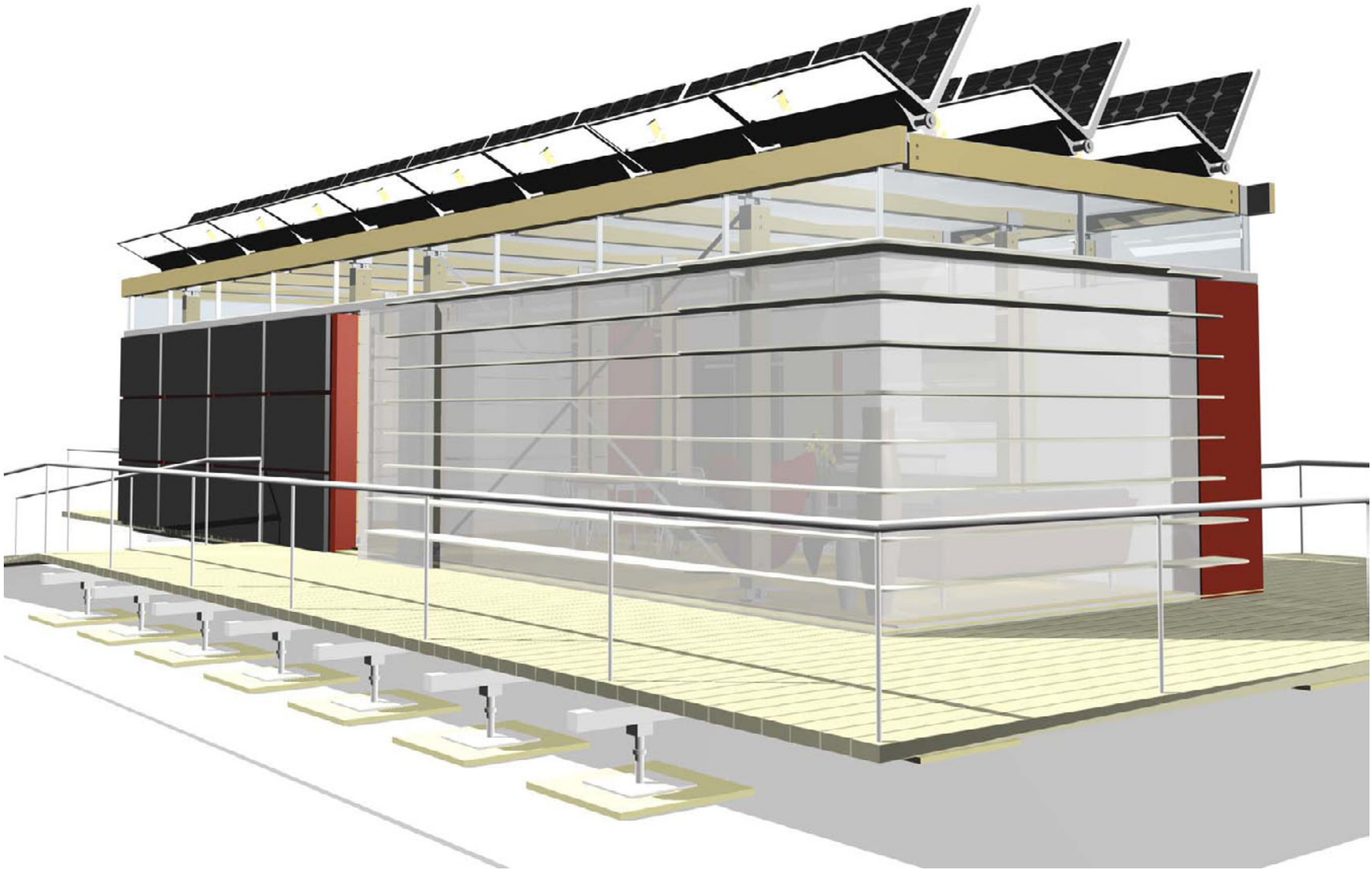
prepared by:  
Nadine Kashlan  
date drawn:  
11.27.06



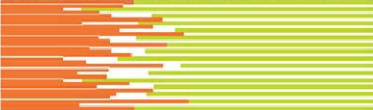
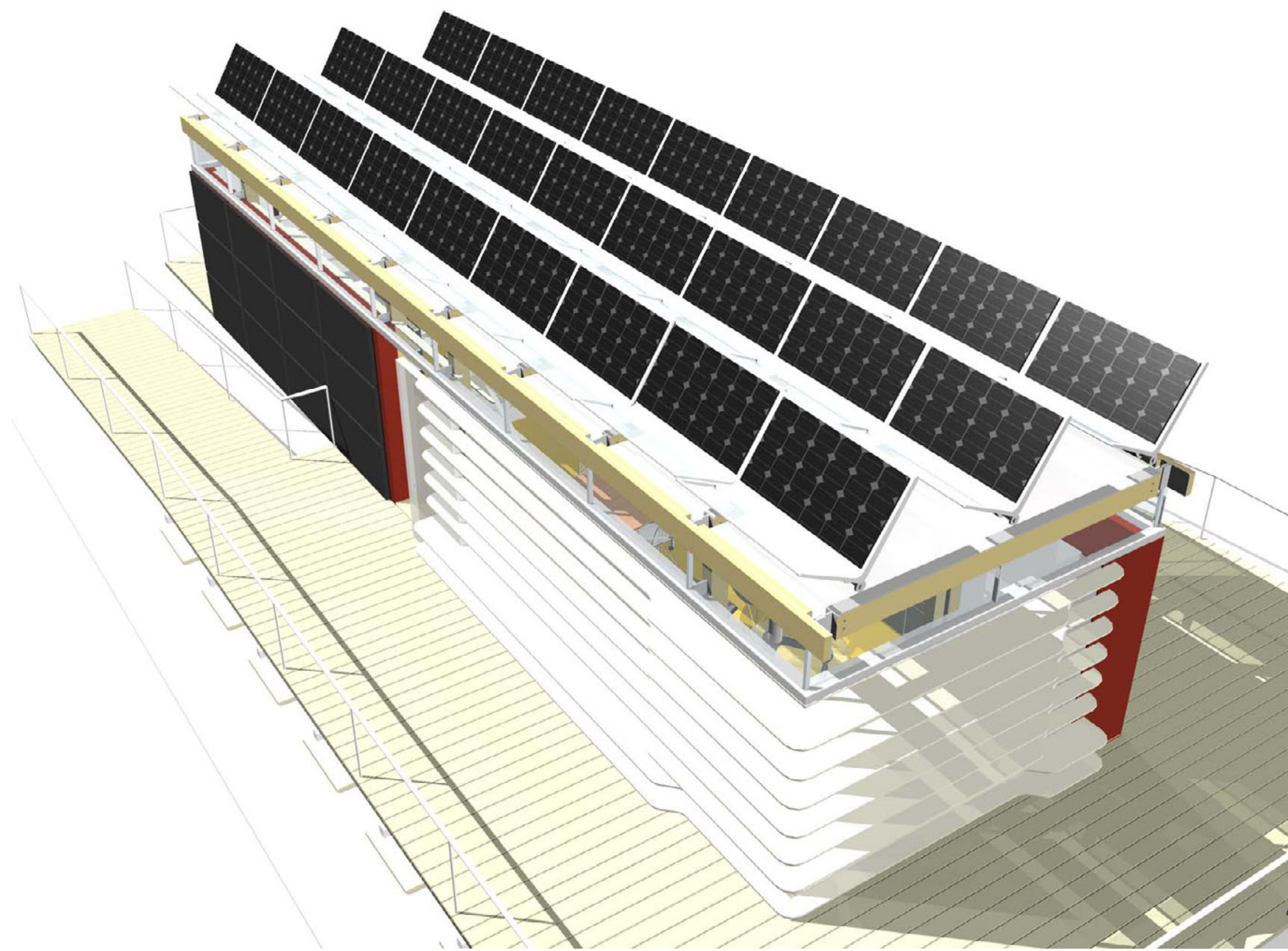
scale: 1/4" : 1' 0"

A.2.4

EXTERIOR VIEW : southeast corner







date	description	revision

consultants:



prepared by:  
Nadine Kashlan  
date drawn:  
11.27.06

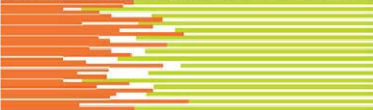


scale: 1/4" : 1' 0"

A.2.5

EXTERIOR VIEW : aerial southeast corner





date

description

revision

consultants:



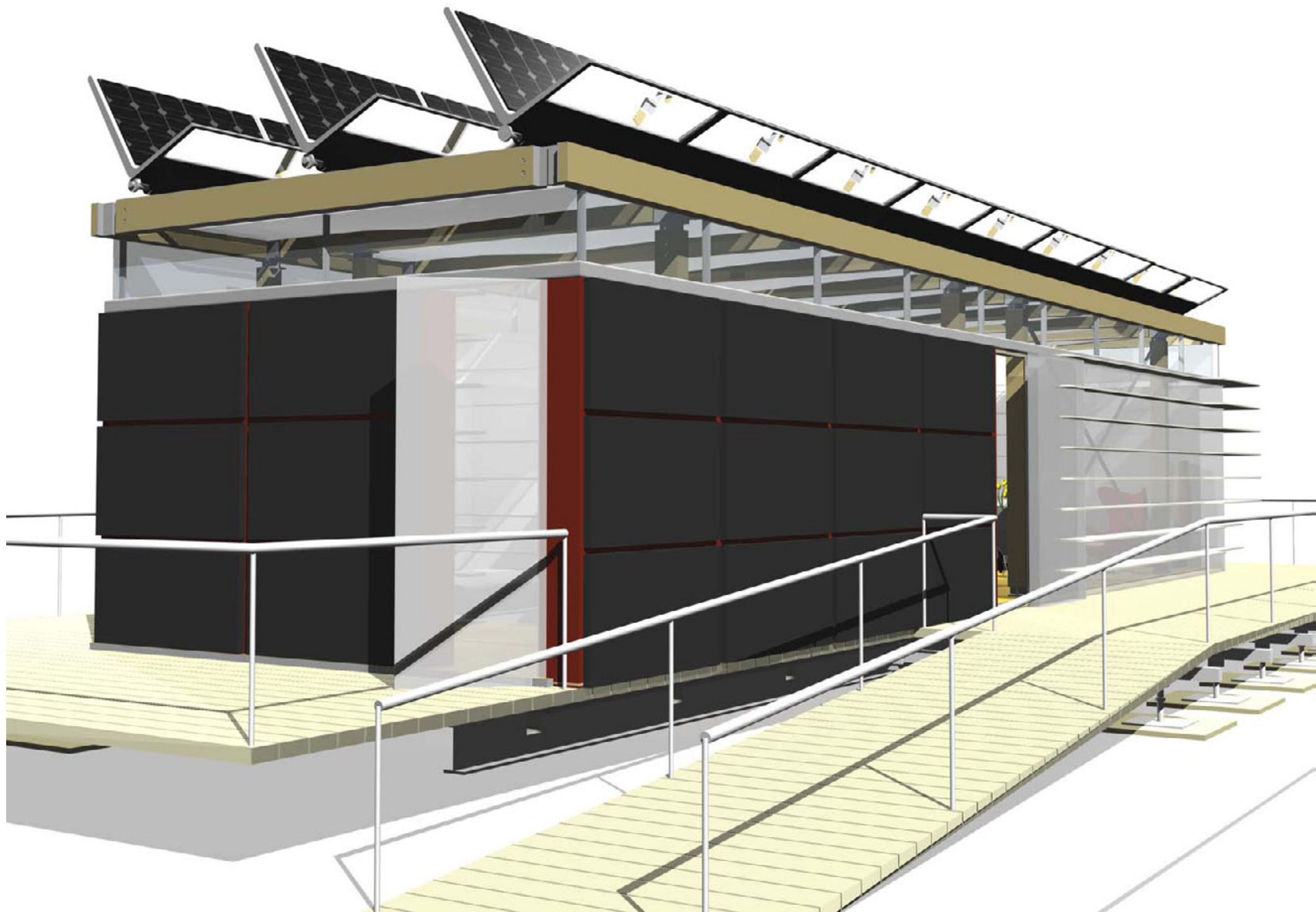
prepared by:  
Nadine Kashlan  
date drawn:  
11.27.06

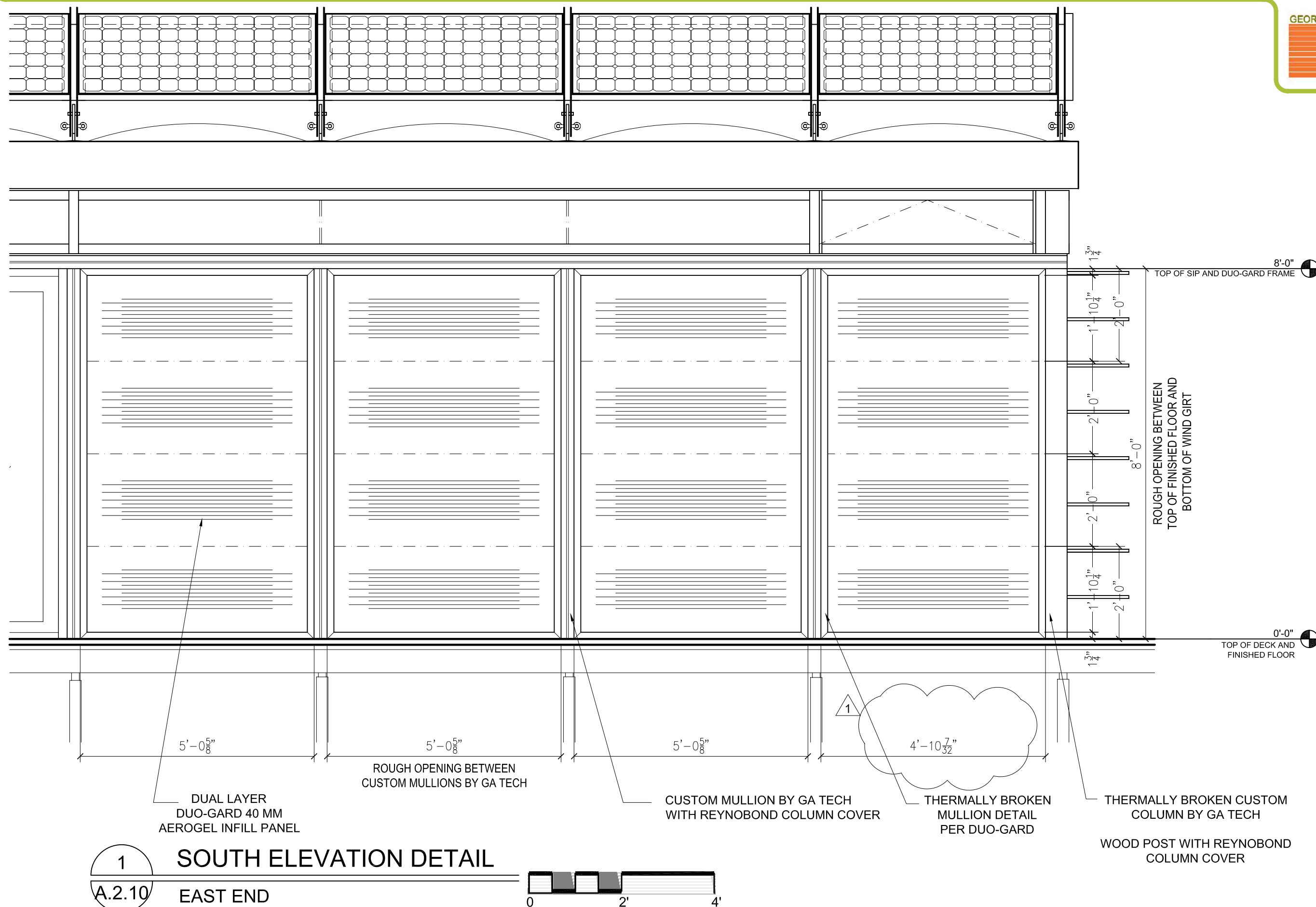


scale: 1/4" : 1' 0"

A.2.6

EXTERIOR VIEW : southwest corner





2020 07 06

### Dimensions for construction

1

consultants:



prepared by:

J. Jamgochian

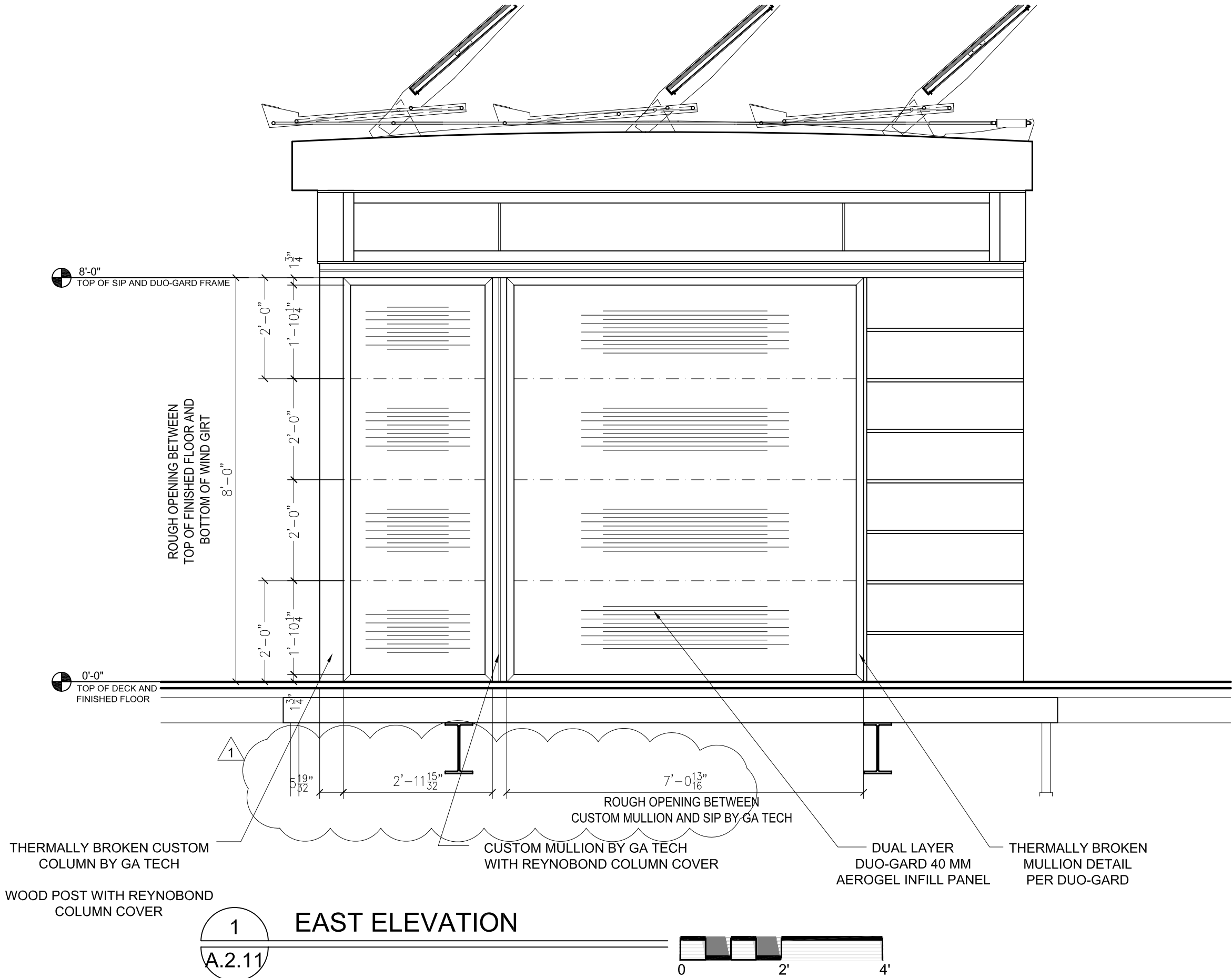
date drawn:

05.22.07

scale: **1/2" : 1' 0"**

## A.2.10

# DUO-GARD ELEVATIONS



06.07.07

dimensions for construction

1

consultants:

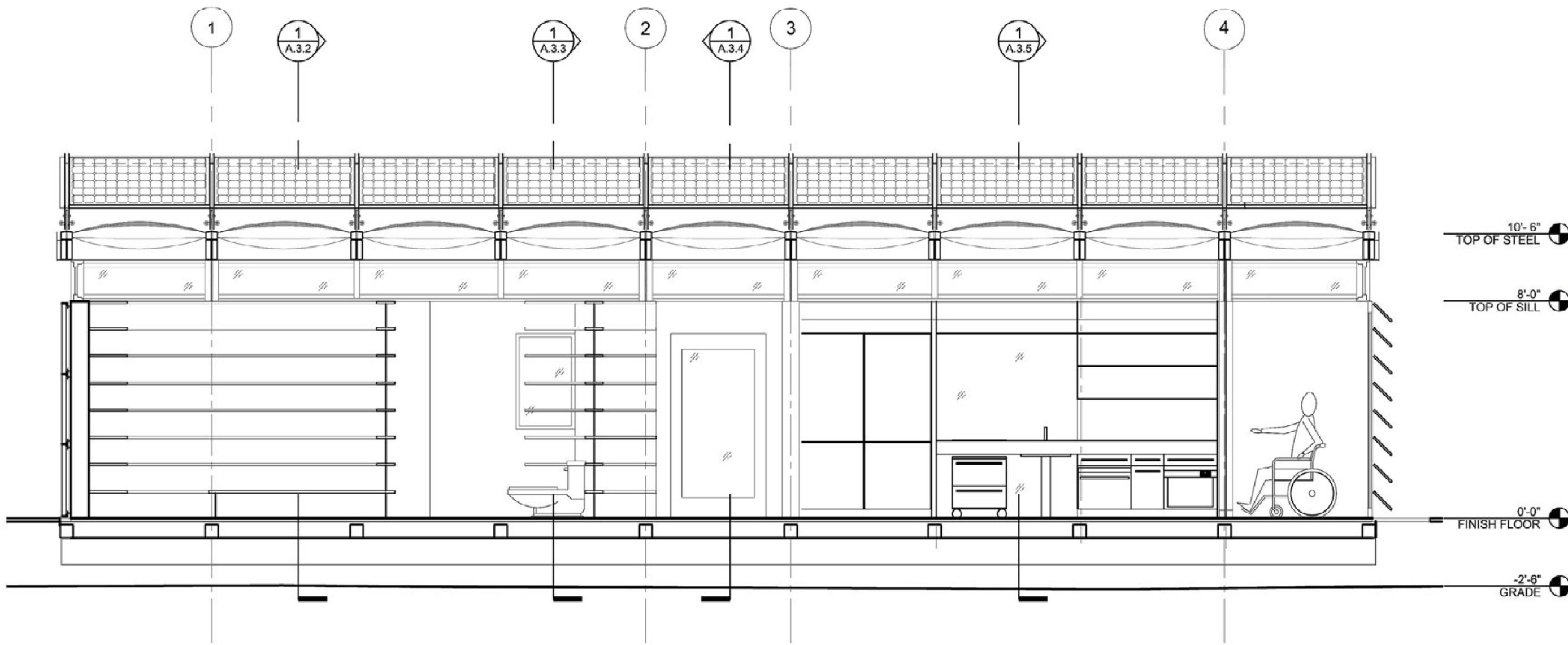


prepared by:  
**J. Jamgochian**  
date drawn:  
**05.22.07**

scale: **1/2" : 1' 0"**

DUO-GARD ELEVATIONS

A.2.11



date	
revision	
description	

consultants:	



prepared by:  
**C. Luchian**  
date drawn:  
**11.25.06**  
**03.03.07**

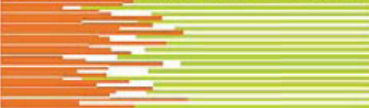
scale: 1/4" : 1' 0"

**A.3.0**

LONGITUDINAL SECTION

1 LONGITUDINAL SECTION  
A.3.0





date

description

revision

consultants:



prepared by:

C. Luchian

date drawn:

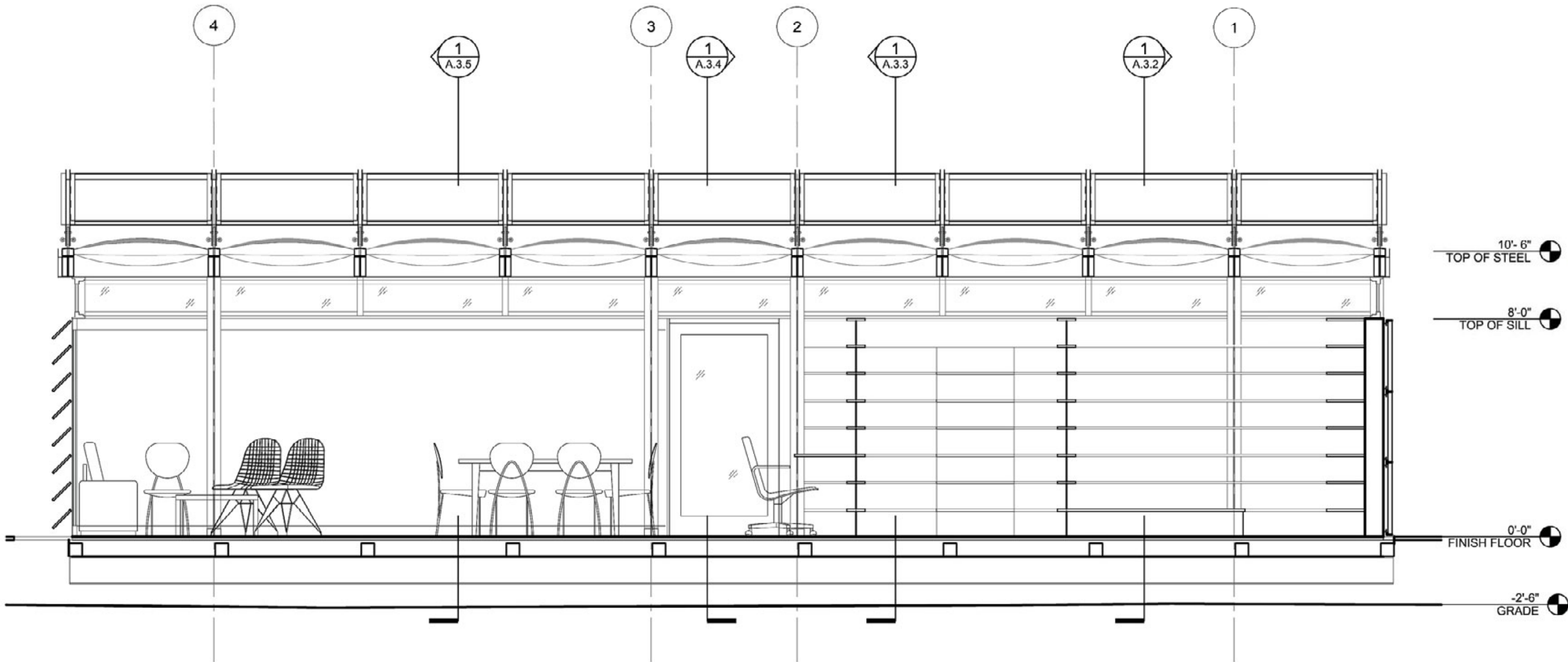
11.25.06

03.03.07

scale: 1/4" : 1' 0"

A.3.1

LONGITUDINAL SECTION



1 LONGITUDINAL SECTION  
A.3.1



date	
description	
revision	

consultants:

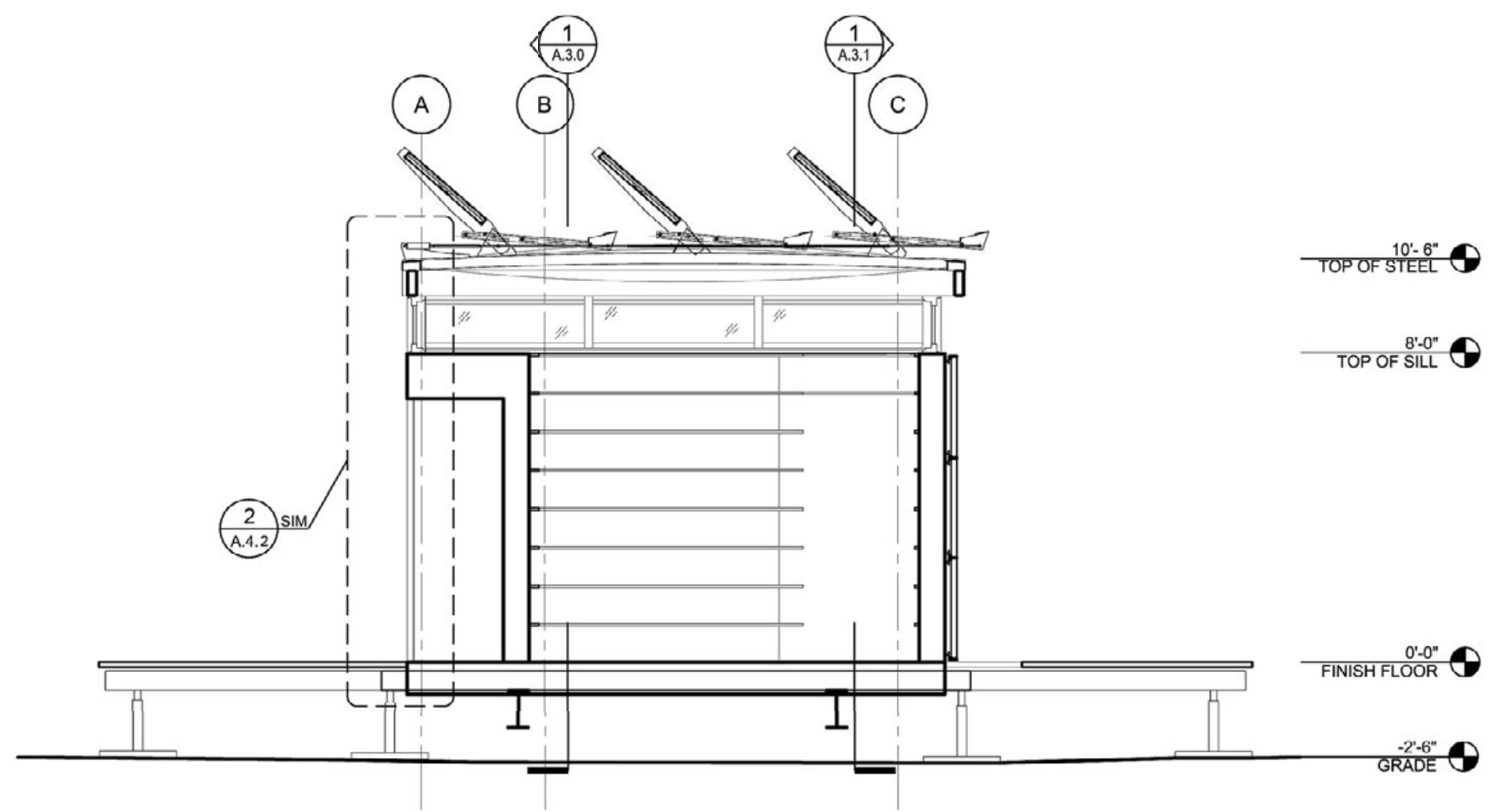


prepared by:  
**C. Luchian**  
date drawn:  
**11.25.06**  
**03.03.07**

scale: **1/4" : 1' 0"**

**A.3.2**

CROSS SECTION



1 CROSS SECTION  
A.3.2 LOOKING EAST

date	
description	
revision	

consultants:

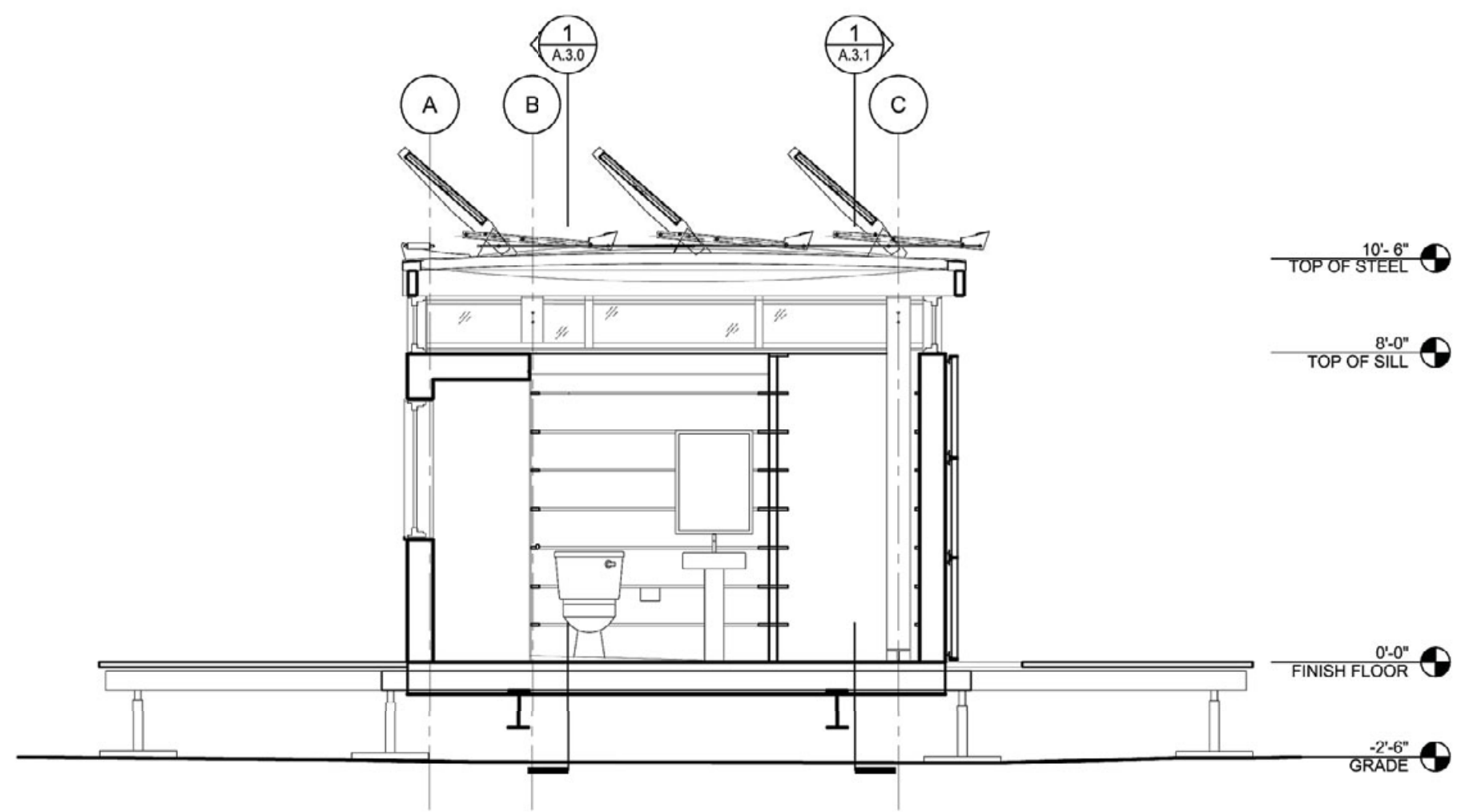


prepared by:  
C. Luchian  
date drawn:  
11.25.06  
03.03.07

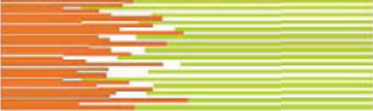
scale: 1/4" : 1' 0"

A.3.3

CROSS SECTION



1 CROSS SECTION  
A.3.3 LOOKING EAST



date

description

revision

consultants:



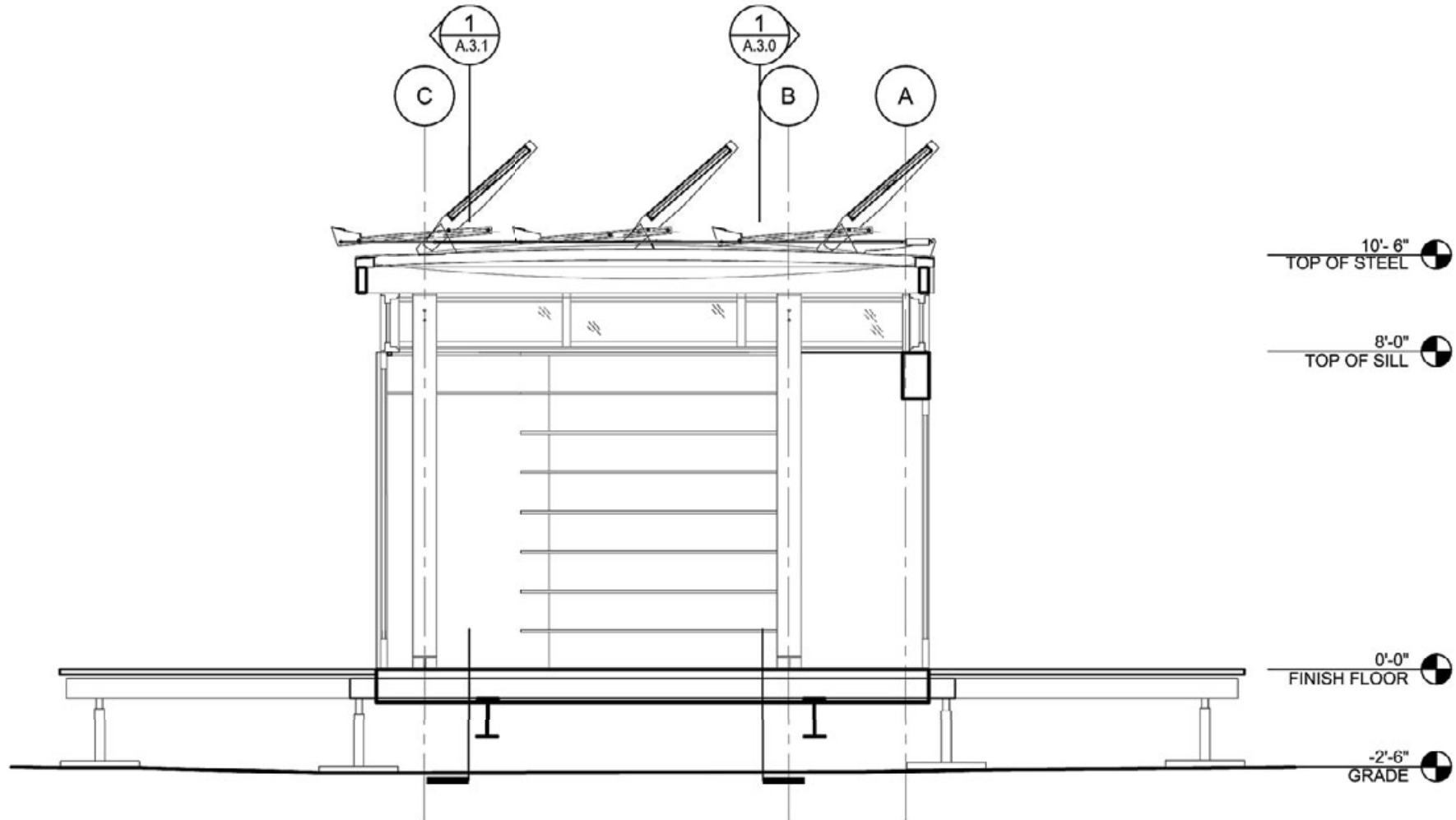
prepared by:  
**C. Luchian**

date drawn:  
**11.25.06  
03.03.07**

scale: **1/4" : 1' 0"**

**CROSS SECTION**

**A.3.4**



**1** CROSS SECTION  
**A.3.4** LOOKING WEST



date	
description	
revision	

consultants:

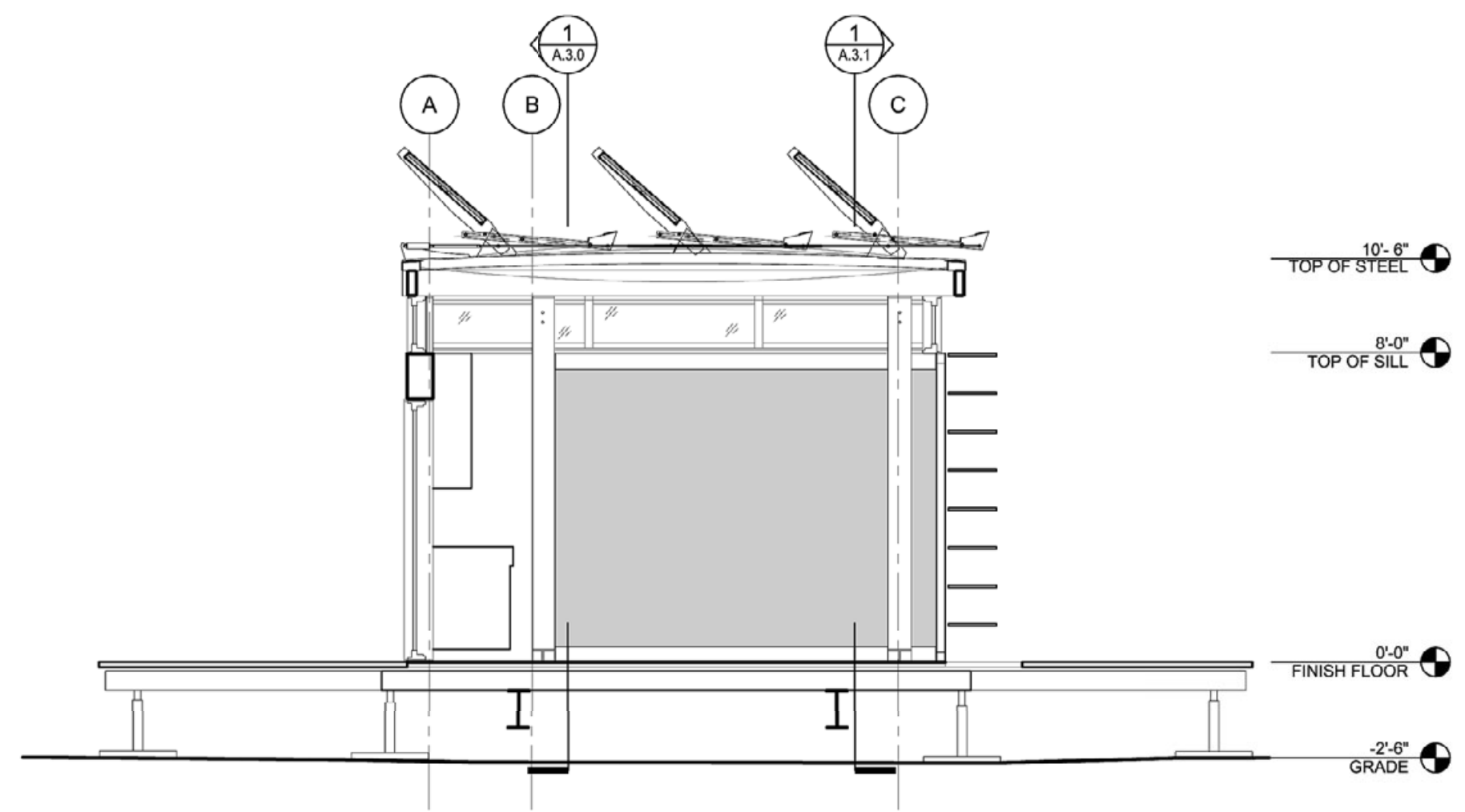


prepared by:  
**C. Luchian**  
date drawn:  
**11.25.06**  
**03.03.07**

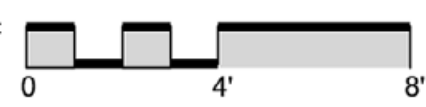
scale: **1/4" : 1' 0"**

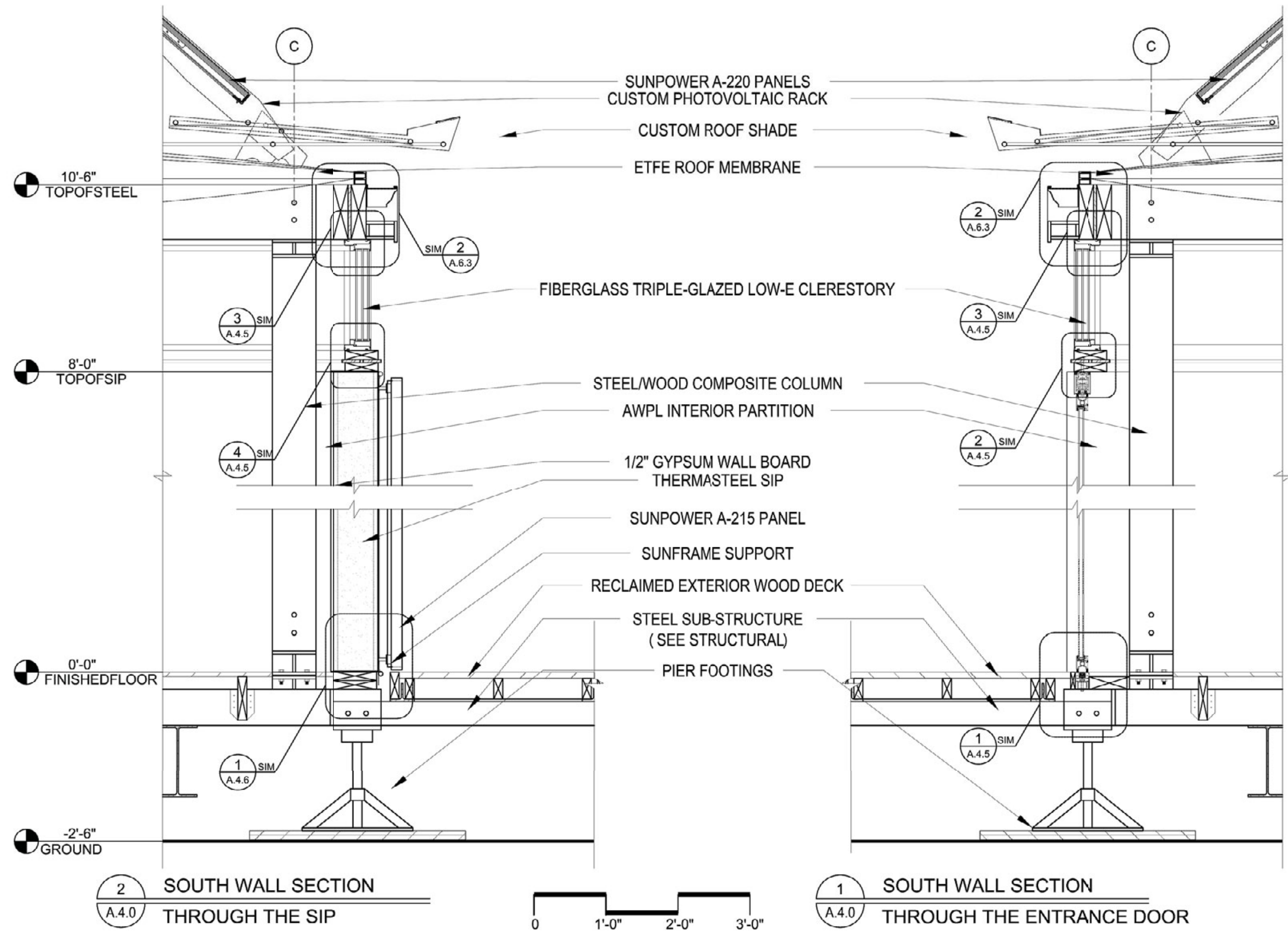
**A.3.5**

CROSS SECTION



1 CROSS SECTION  
A.3.5 LOOKING EAST





date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



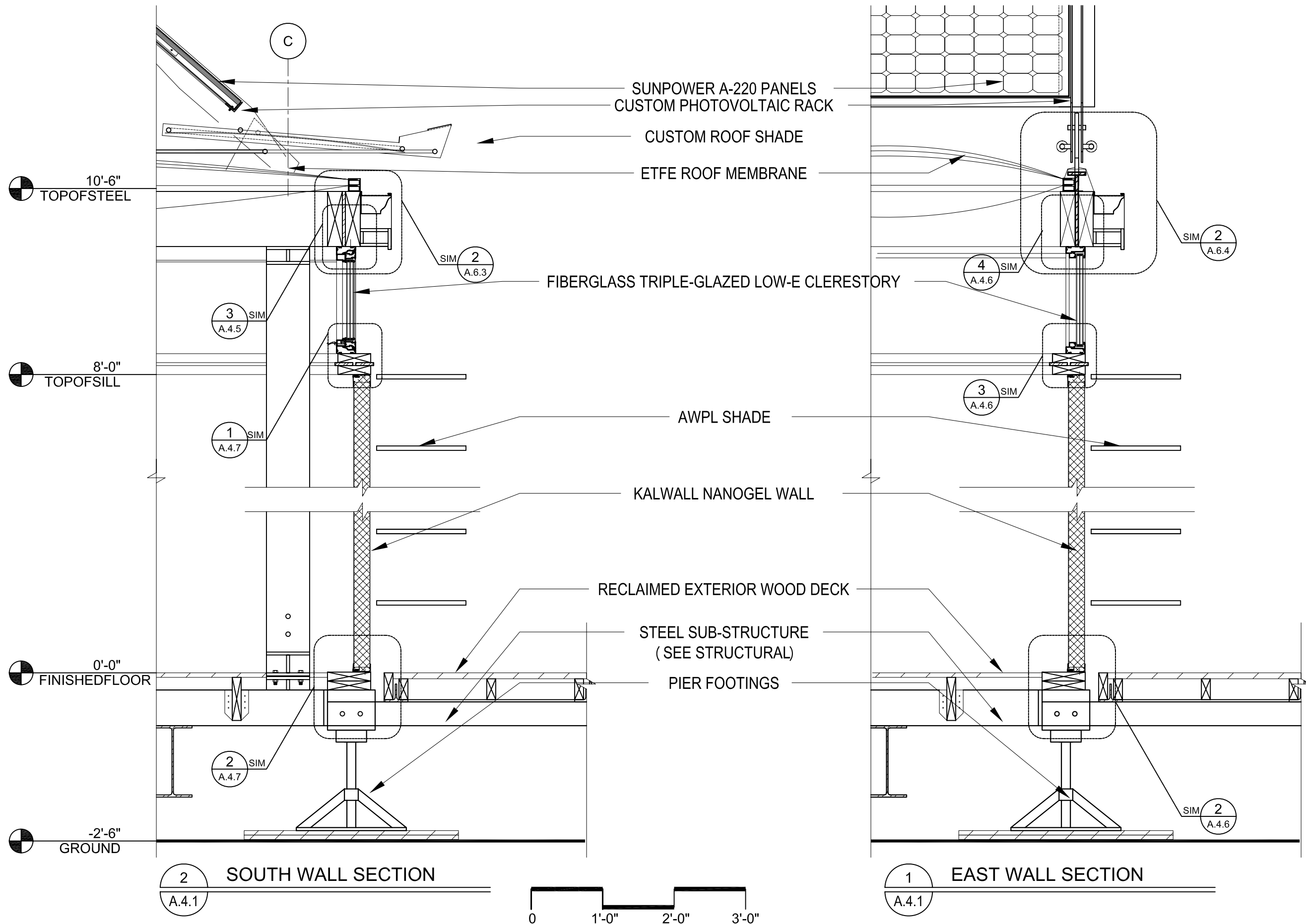
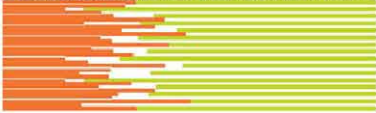
prepared by:  
**C. Luchian**

date drawn:  
**12.06.06**  
**03.03.07**

scale: 3/4" = 1' 0"

**A.4.0**

SOUTH WALL SECTIONS - SIP & DOOR



date

description

revision

consultants:

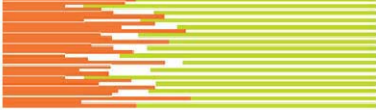


prepared by:  
**C. Luchian**  
**D. Lott**  
date drawn:  
**12.06.06**  
**03.03.07**  
**04.20.07**

scale: 3/4" = 1' 0"

A.4.1

SOUTH & EAST WALL SECTIONS



date

description

revision

consultants:

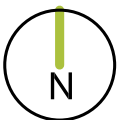


prepared by:

Robert Diamond

date drawn:

12.06.06



scale: 3/4" = 1' 0"

A.4.2

SUNPOWER A-220 PANELS  
CUSTOM PHOTOVOLTAIC RACK  
CUSTOM ROOF SHADE  
LINEAR ACTUATOR  
ETFE ROOF MEMBRANE

FIBERGLASS TRIPLE-GLAZED LOW-E CLERESTORY

THERMASTEEL SIP  
AWPL INTERIOR PARTITION  
SLIDING MECH ROOM DOOR

5/8" GYPSUM WALL BOARD

FIBERGLASS TRIPLE-GLAZED LOW-E WINDOW

RECLAIMED EXTERIOR WOOD DECK  
STEEL SUB-STRUCTURE  
(SEE STRUCTURAL)

STEEL FOOTINGS

10'-6"

TOPOFSTEEL

8'-0"

TOPOFSILL

0'-0"

FINISHEDFLOOR

-2'-0"

GROUND

1  
A.6.3  
SIM

2  
A.4.8  
SIM

3  
A.4.8  
SIM

4  
A.4.8  
SIM

1  
A.4.9  
SIM

3  
A.4.9  
SIM

2  
A.4.9  
SIM

1  
A.6.3  
SIM

2  
A.4.8  
SIM

1  
A.4.8  
SIM

4  
A.4.7  
SIM

3  
A.4.7  
SIM

2  
A.4.3

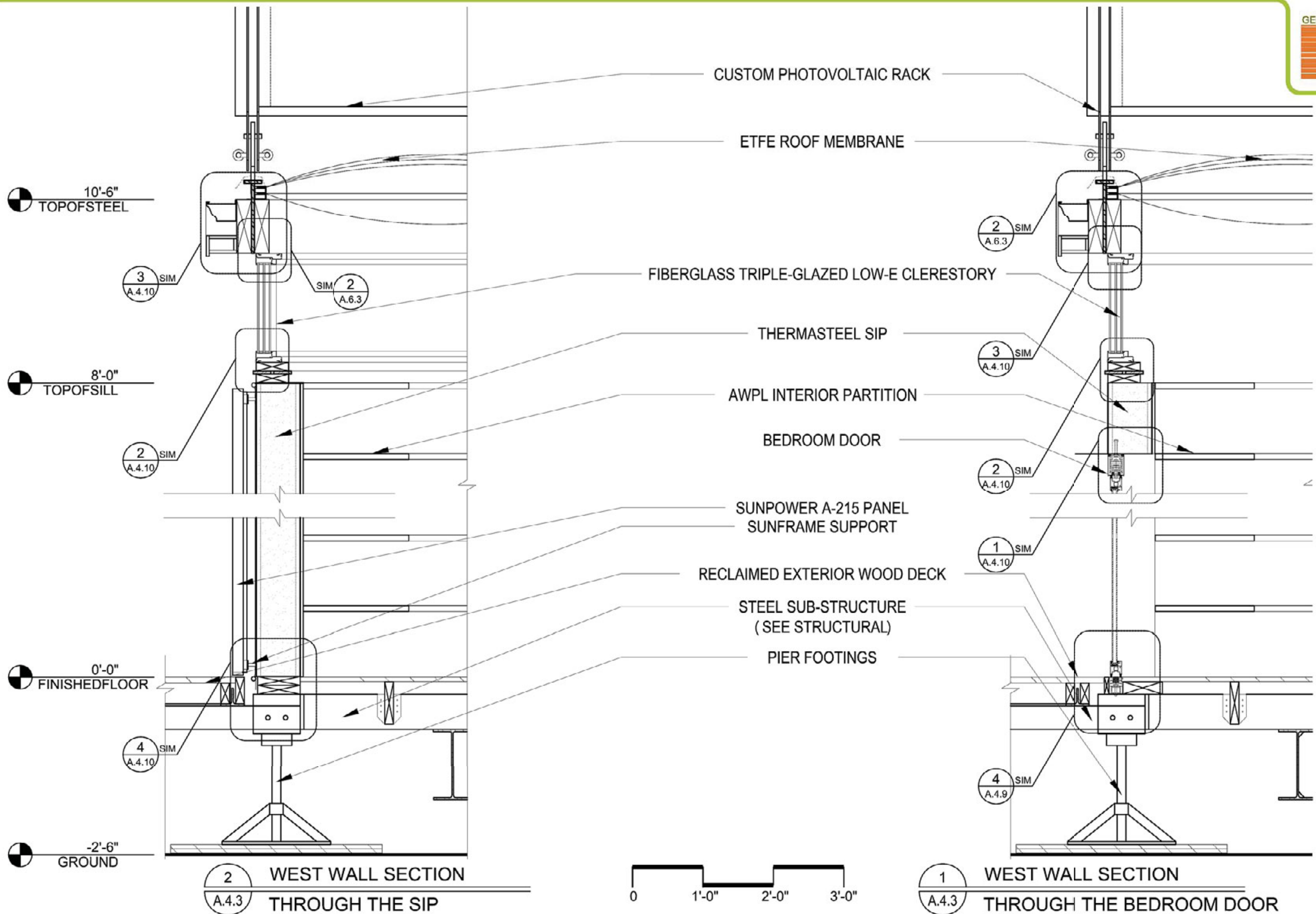
NORTH WALL SECTION  
THROUGH THE MECH ROOM



1  
A.4.3

NORTH WALL SECTION  
THROUGH THE KITCHEN





date

description

revision

consultants:

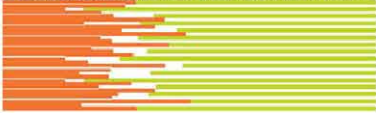
GT

prepared by:  
C. Luchian  
date drawn:  
11.15.06  
03.03.07

scale: 3/4" = 1' 0"

A.4.3

WEST WALL SECTIONS - SIP & DOOR



date

description

revision

consultants:



prepared by:

C. Luchian  
D. Lott

date drawn:

12.06.06  
03.03.07  
04.20.07

scale: 3/4" = 1' 0"

A.4.4

NORTH WALL SECTION

CUSTOM PHOTOVOLTAIC RACK  
CUSTOM ROOF SHADE  
ETFE ROOF MEMBRANE

OPERABLE FIBERGLASS TRIPLE-GLAZED  
LOW-E CLERESTORY

THERMASTEEL SIP

RECLAIMED EXTERIOR WOOD DECK

STEEL SUB-STRUCTURE  
(SEE STRUCTURAL)

PIER FOOTINGS

1 SIM  
A.6.3

2 SIM  
A.4.8

3 SIM  
A.4.8

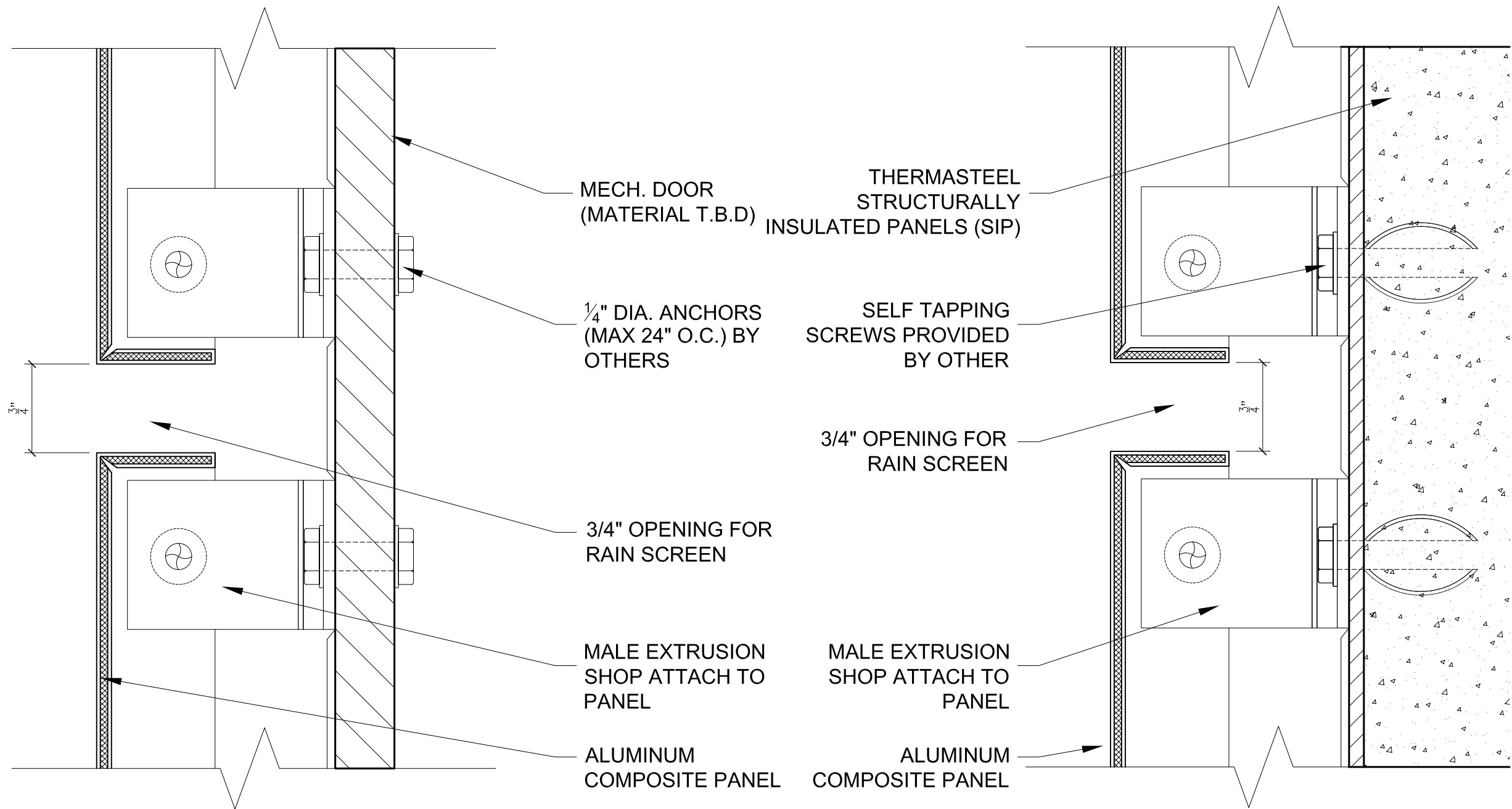
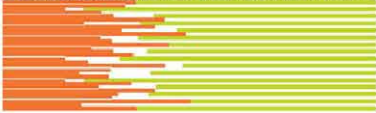
?? SIM  
A.9.?

?? SIM  
A.9.?

1  
A.4.4

NORTH WALL SECTION





2 ALUM. COMPOSITE PANEL RAINSCREEN  
CONNECTION DETAIL

3 ALUM. COMPOSITE PANEL RAINSCREEN  
CONNECTION DETAIL

date

description

revision

consultants:



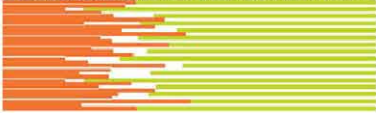
prepared by:  
**Anthony Piede**  
date drawn:  
**04.03.2007**



scale: 1" = 1"

A.4.20

RAINSCEEN SECTION DETAILS - CONECTIONS



revision	description	date

consultants:

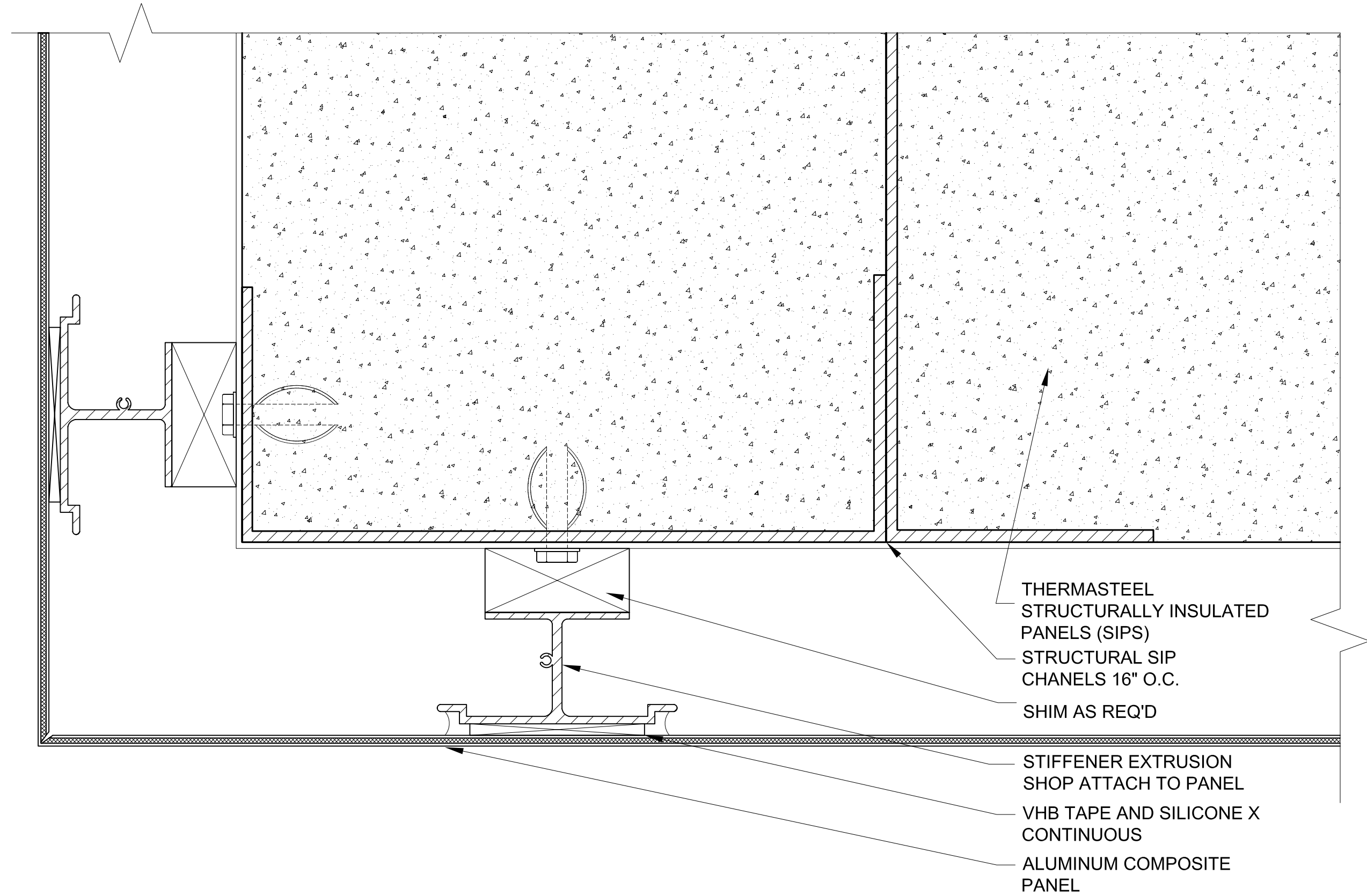


prepared by:  
**Anthony Piede**  
date drawn:  
**04.03.2007**



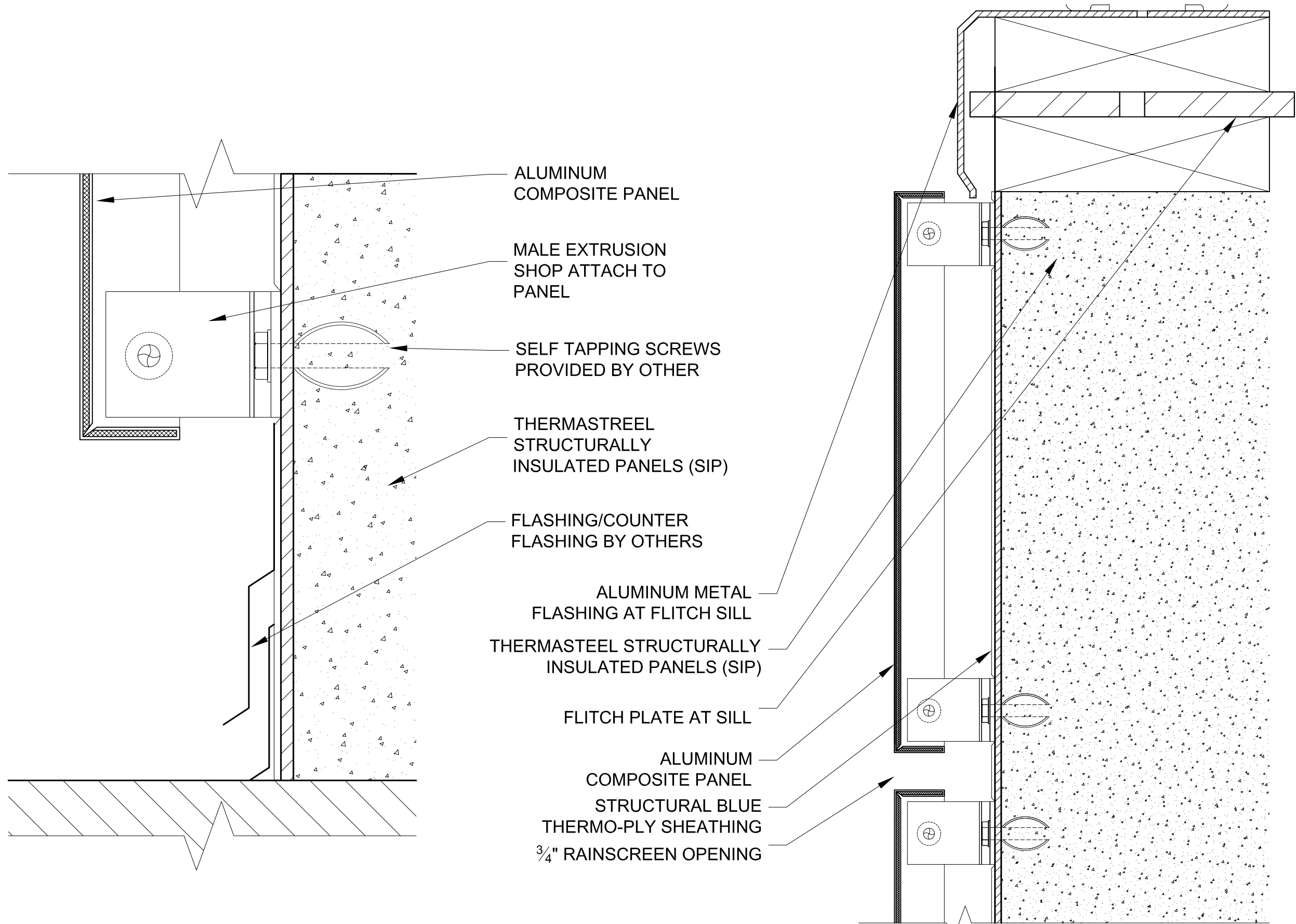
scale: **10" = 1'-0"**

**RAINSCREEN SECTION DETAILS - CONECTIONS**



**1** ALUM. COMPOSITE PANEL CORNER DETAIL  
**A.4.21** CONNECTION DETAIL





5 SILL CONDITION DETAIL OCCURRING AT GRADE  
A.4.22 CONNECTION DETAIL

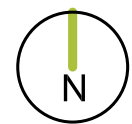
6 RAINSCREEN-CLERESTORY DETAIL CONDITION  
A.4.21 CONNECTION DETAIL

date	
description	
revision	

consultants:



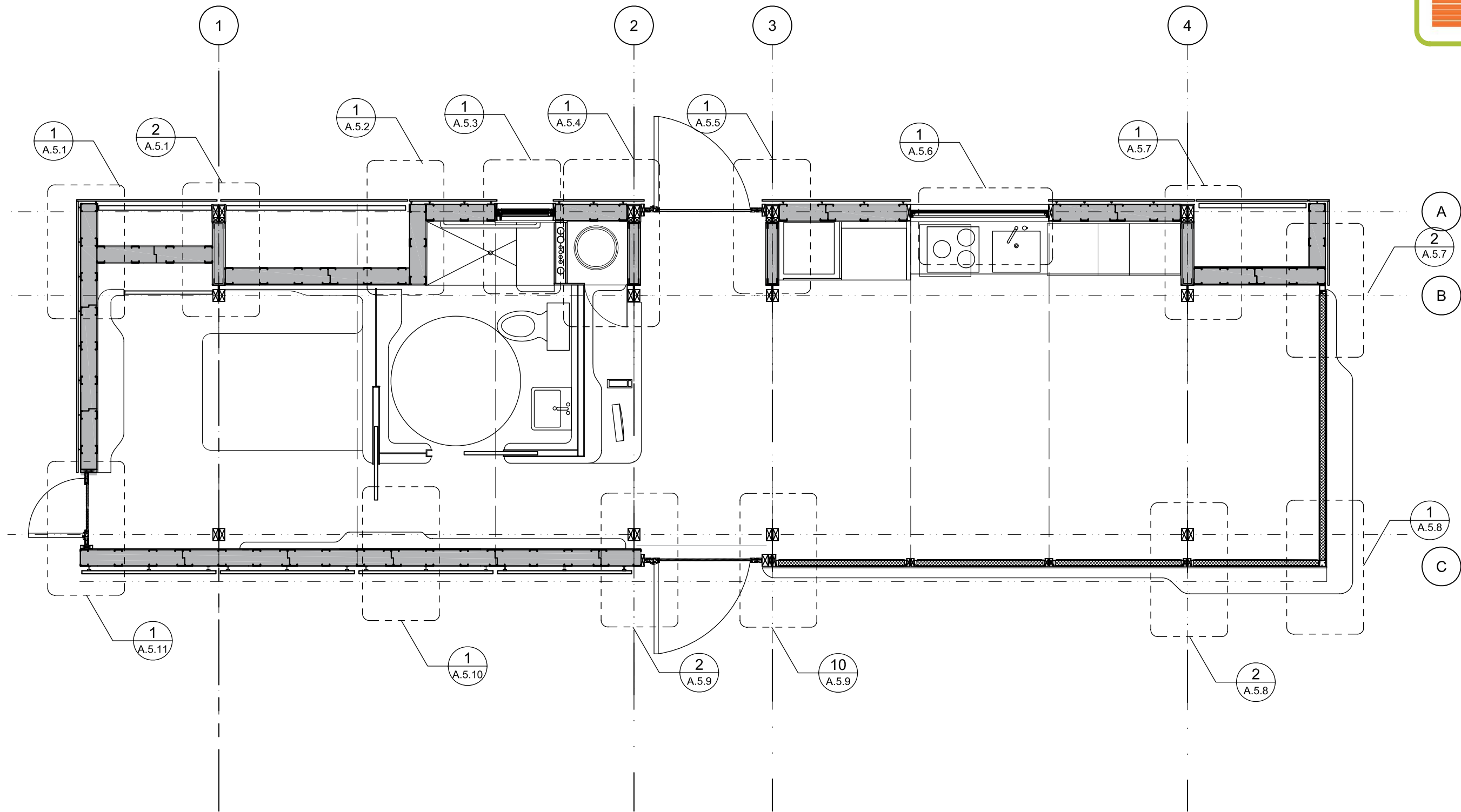
prepared by:  
**Anthony Piede**  
date drawn:  
**04.03.2007**



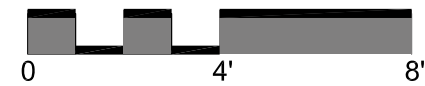
scale: 1" = 1"

A.4.22

RAINSCREEN SECTION DETAILS - CONECTIONS



1 HORIZONTAL PLAN DETAILS  
A.5.0

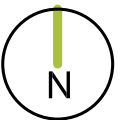


date
revision
description

consultants:



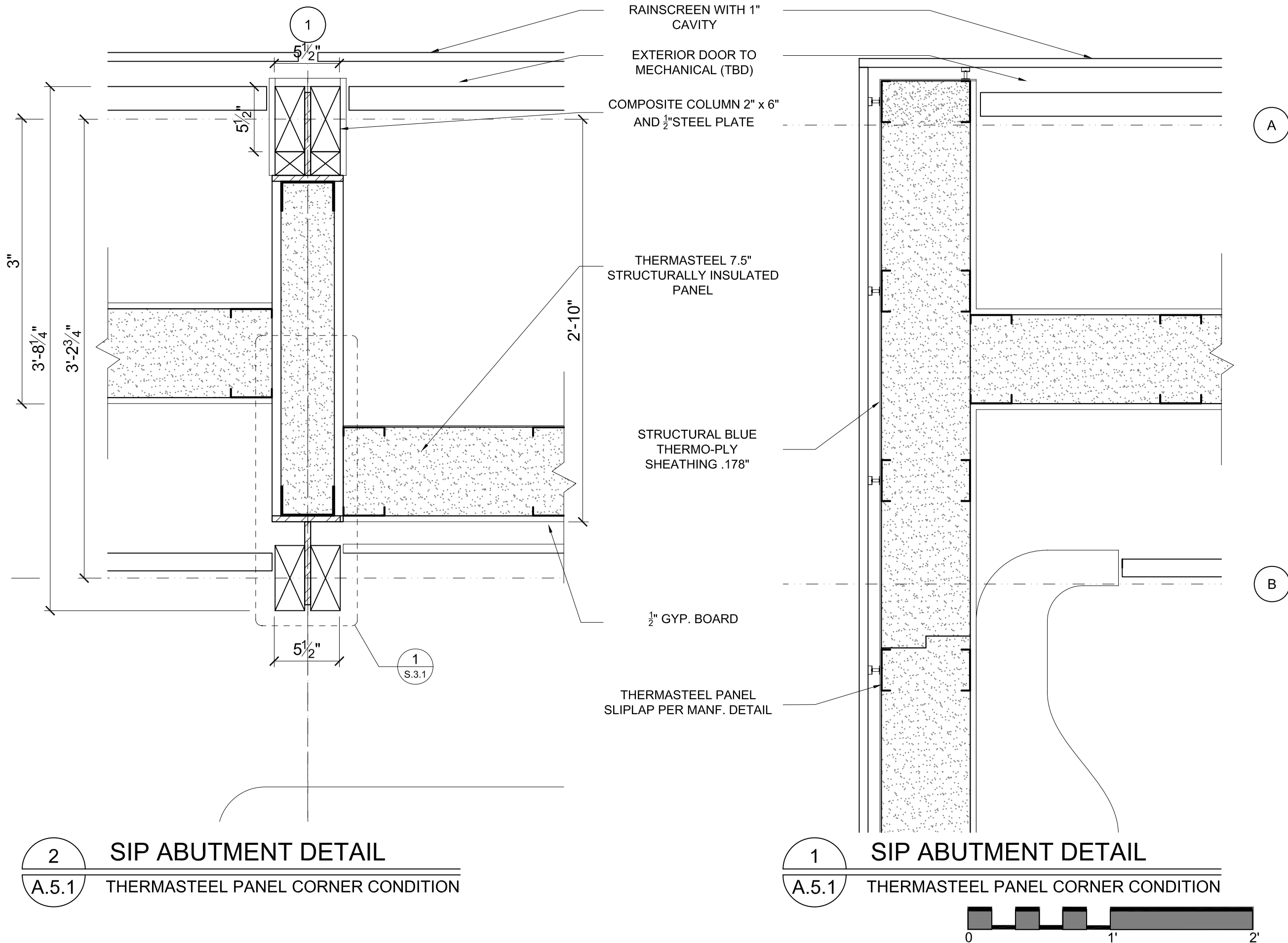
prepared by:  
Tony Piede  
Nadine Kashlan  
date drawn:  
03.06.07  
12.06.06



scale: 1/4" : 1' 0"

A.5.0

FLOOR PLAN DETAILS - KEY PLAN



2	SIP ABUTMENT DETAIL
A.5.1	THERMASTEEL PANEL CORNER CONDITION

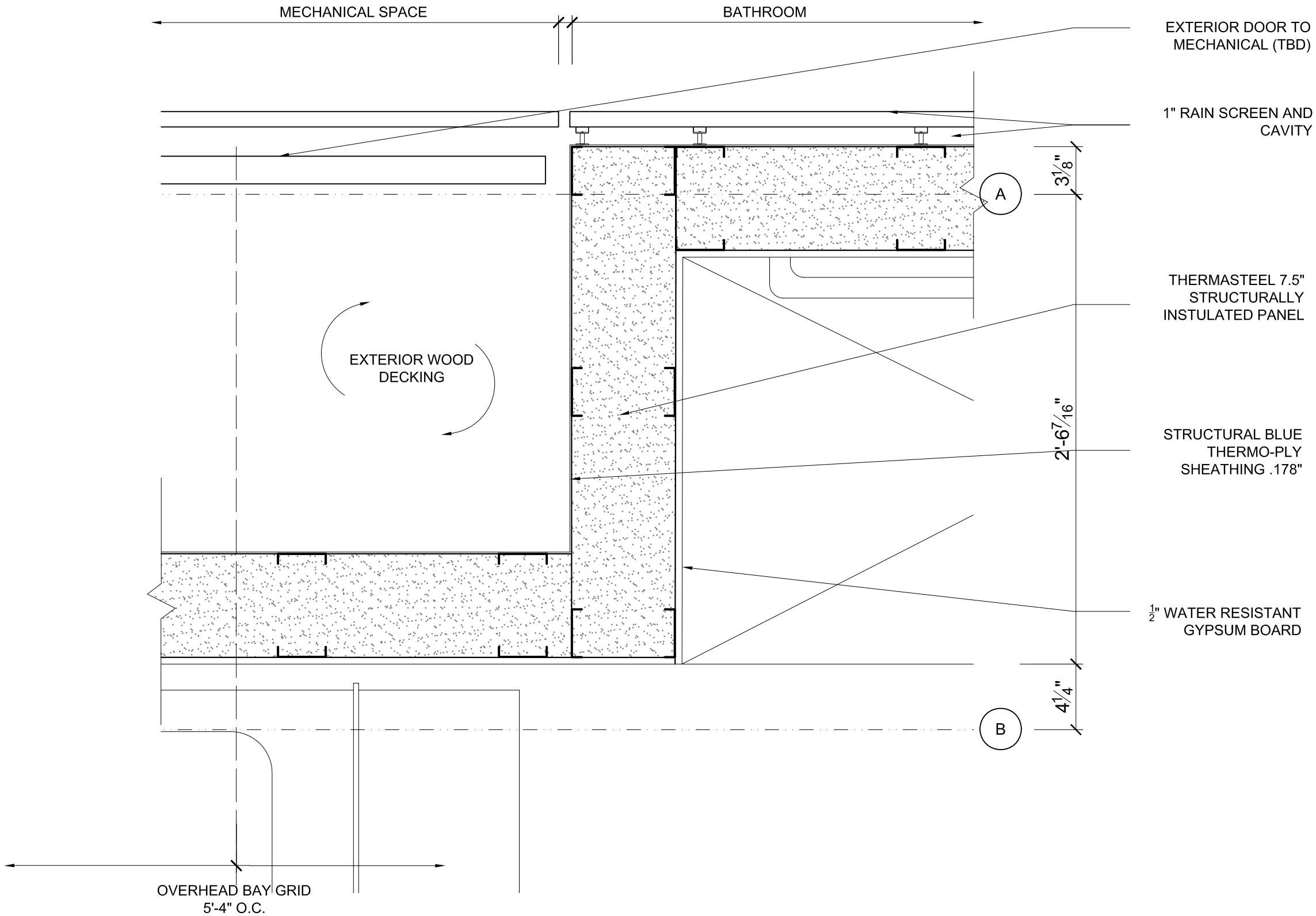
1

## SIP ABUTMENT DETAIL

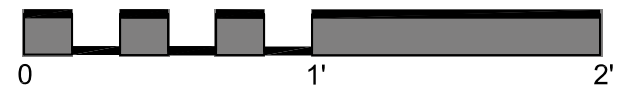
---

A.5.1

### THERMASTEEL PANEL CORNER CONDITION



1 SIP ABUTMENT DETAIL  
A.5.2 THERMASTEEL PANEL CORNER CONDITION



date	
description	
revision	

consultants:



prepared by:  
**Tony Piede**  
**Nadine Kashlan**  
date drawn:  
**03.06.07**  
**12.06.06**

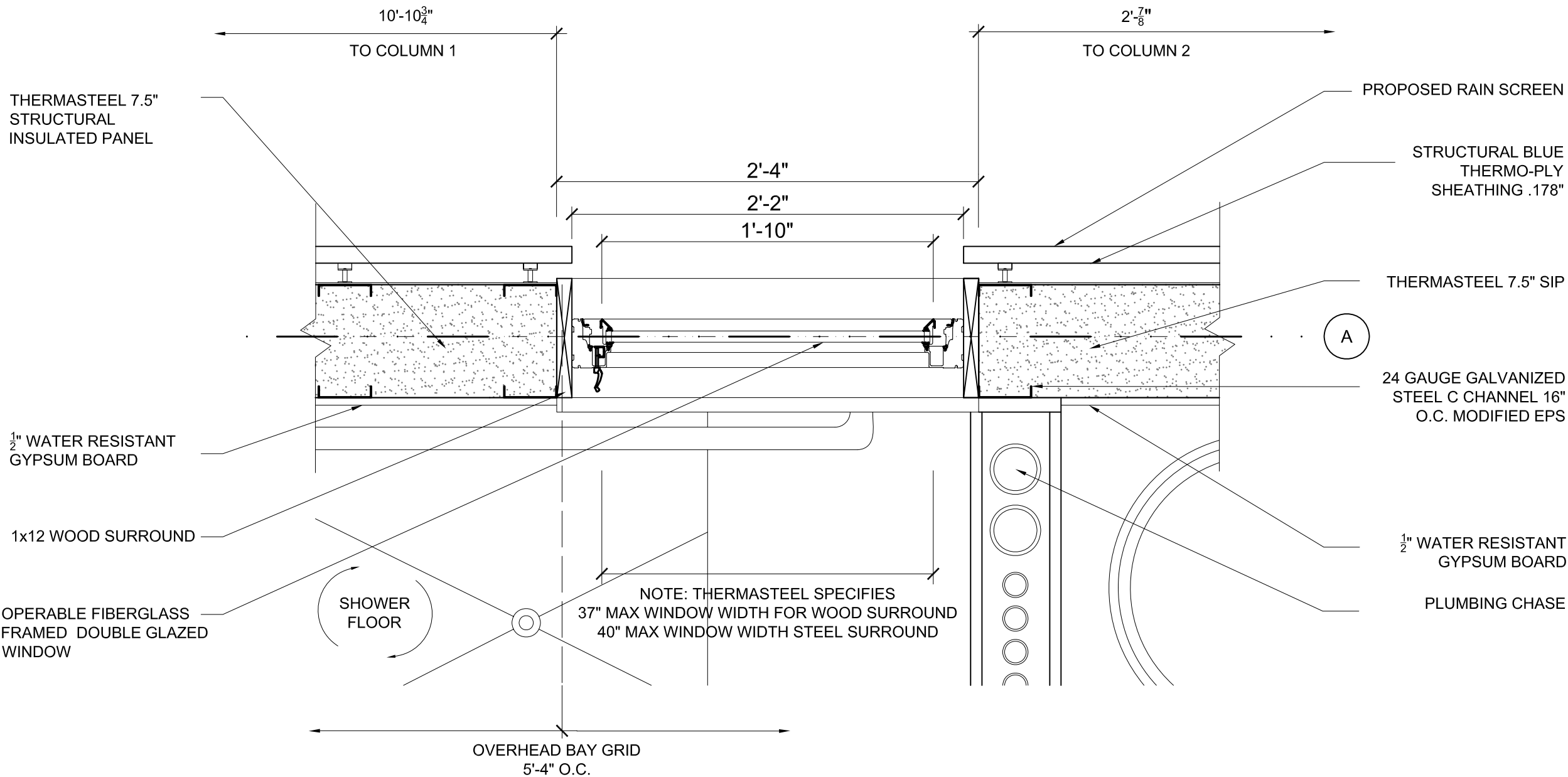
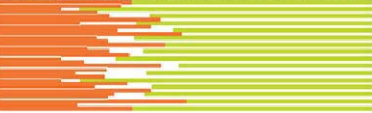


scale: 1-1/2" : 1' 0"

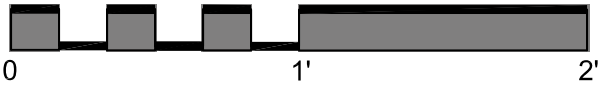
A.5.2

SIP ABUTMENT DETAILS - NORTH WALL





1 SIP - WINDOW JOINT DETAIL  
A.5.3



date	
description	
revision	

consultants:

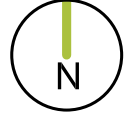
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



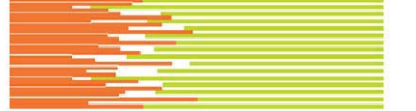
prepared by:  
Tony Piede  
Nadine Kashlan  
date drawn:  
03.06.07  
12.06.06



scale: 1-1/2" : 1' 0"

A.5.3

SIP ABUTMENT DETAILS - NORTH WALL



NANAWALL HSW50 LOW  
-E GLASS & ARGON GAS

AIRLOCK SYSTEM  
JAMB PER MANF. SPECS

THERMASTEEL 7.5"  
STRUCTURALLY  
INSULATED PANEL

24 GAUGE GALVANIZED STEEL C  
CHANNEL 16" O.C. MODIFIED EPS

## PLUMBING CHASE

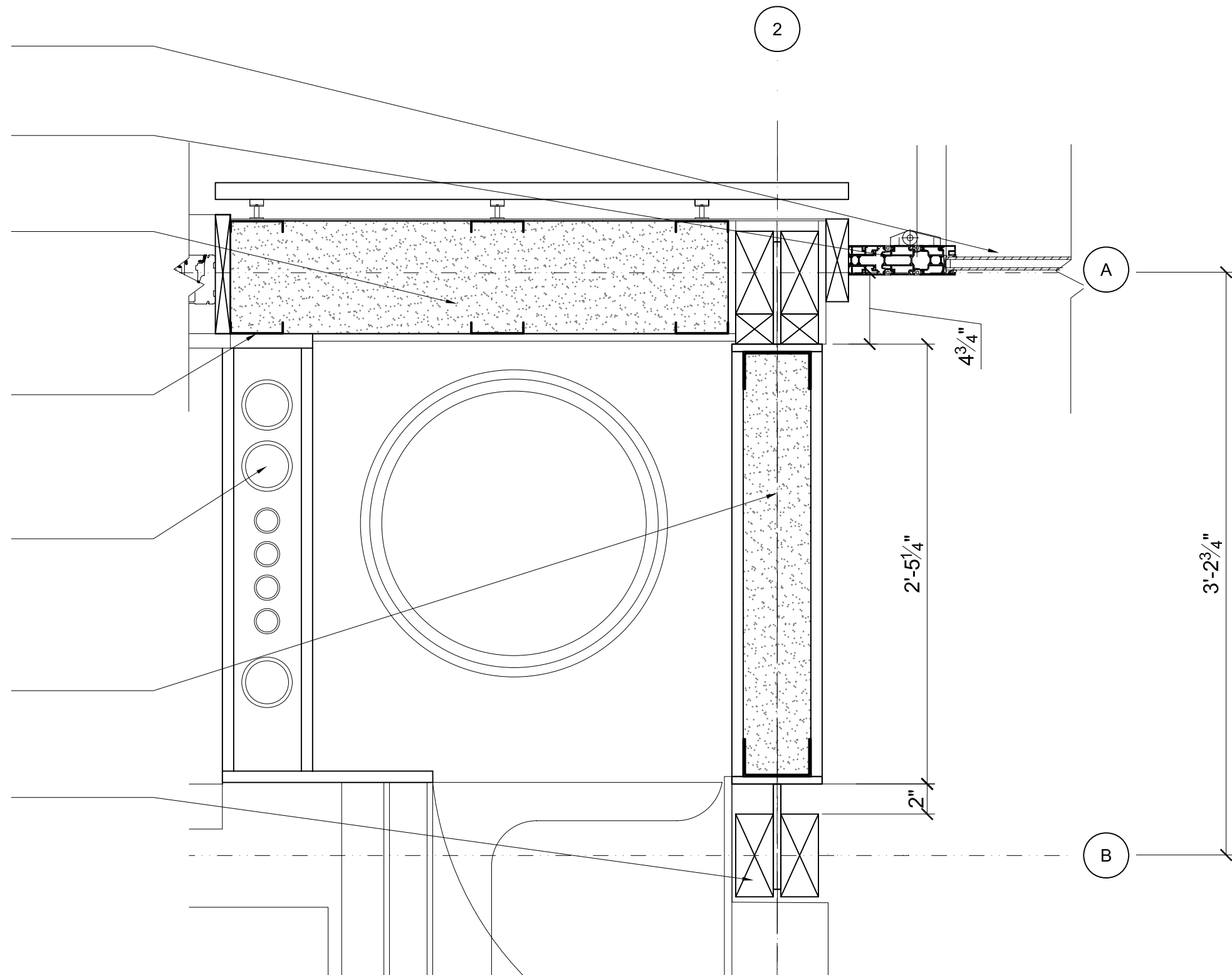
THERMASTEEL 4.5" STRUCTURALLY  
INSTULATED PANEL

COMPOSITE COLUMN  
SEE STRUCTURAL DRAWINGS

1

**A.5.4**

## SIP - NORTH ENTRANCE DOOR

 $4\frac{3}{4}$ 

2'-5 1/4"

2

3'-2<sup>3</sup>/<sub>4</sub>"

(E)

(E)

date

description

revision

*consultants:*



*prepared by:*

**Tony Piede**  
**Nadine Kashlan**

*date drawn:*

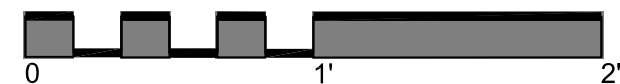
03.06.07  
12.06.06



scale: 1-1/2" : 1' 0"

## A.5.4

## SIP ABUTMENT DETAILS - NORTH WALL



RAIN SCREEN WITH 1" CAVITY

AIRLOCK SYSTEM JAMB PER MANF. SPECS

NANAWALL HSW50 LOW-E GLASS & ARGON GAS

GYPSUM THERMAL ENCASEMENT FOR FLITCH BEAM

KITCHEN COUNTERTOP

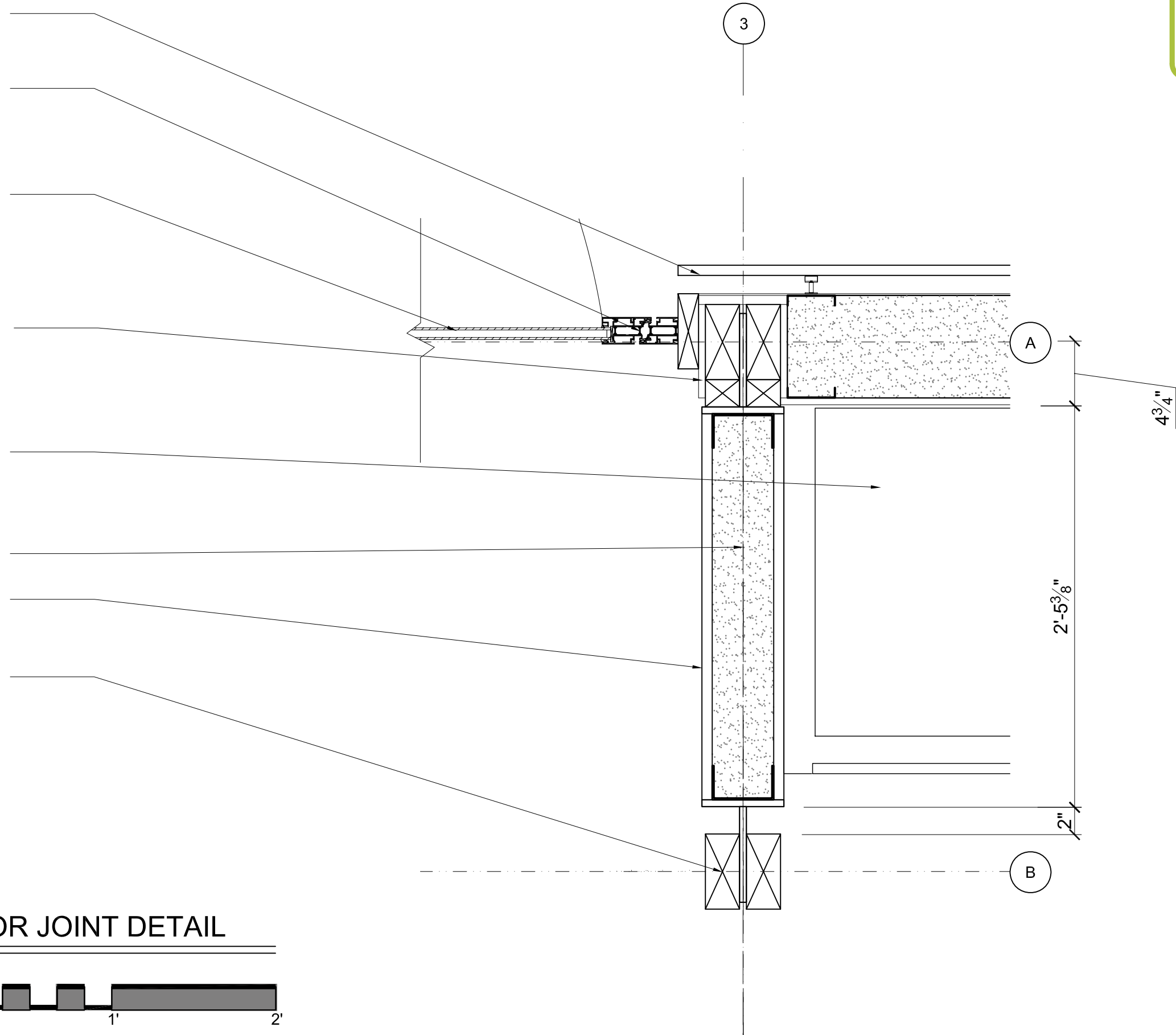
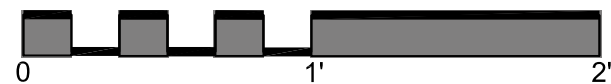
THERMASTEEL 4.5" STRUCTURALLY INSULATED PANEL

3/4" GYPSUM BOARD

COMPOSITE COLUMN (SEE STRUCTURAL DRAWINGS)

1 SIP - DOOR JOINT DETAIL

A.5.5



date

description

revision

consultants:



prepared by:

Tony Piede  
Nadine Kashlan

date drawn:

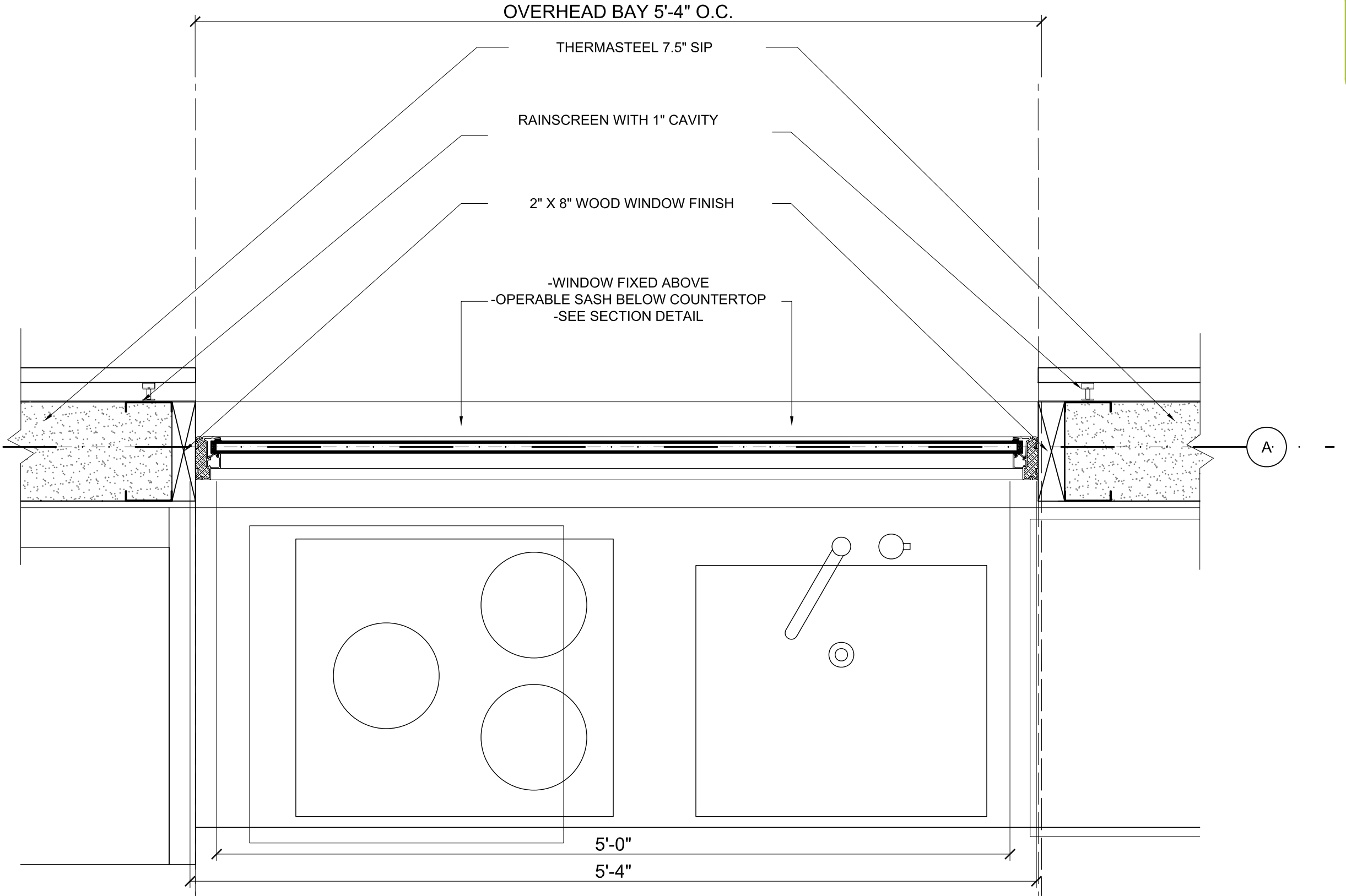
03.06.07  
12.06.06



scale: 1-1/2" : 1' 0"

A.5.5

SIP ABUTMENT DETAILS - NORTH WALL



1  
A.5.6

SIP WINDOW JOINT DETAIL AT THE KITCHEN

date	
description	
revision	

consultants:

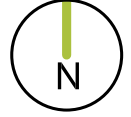
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Tony Piede**  
**Nadine Kashlan**  
date drawn:  
**03.06.07**  
**12.06.06**

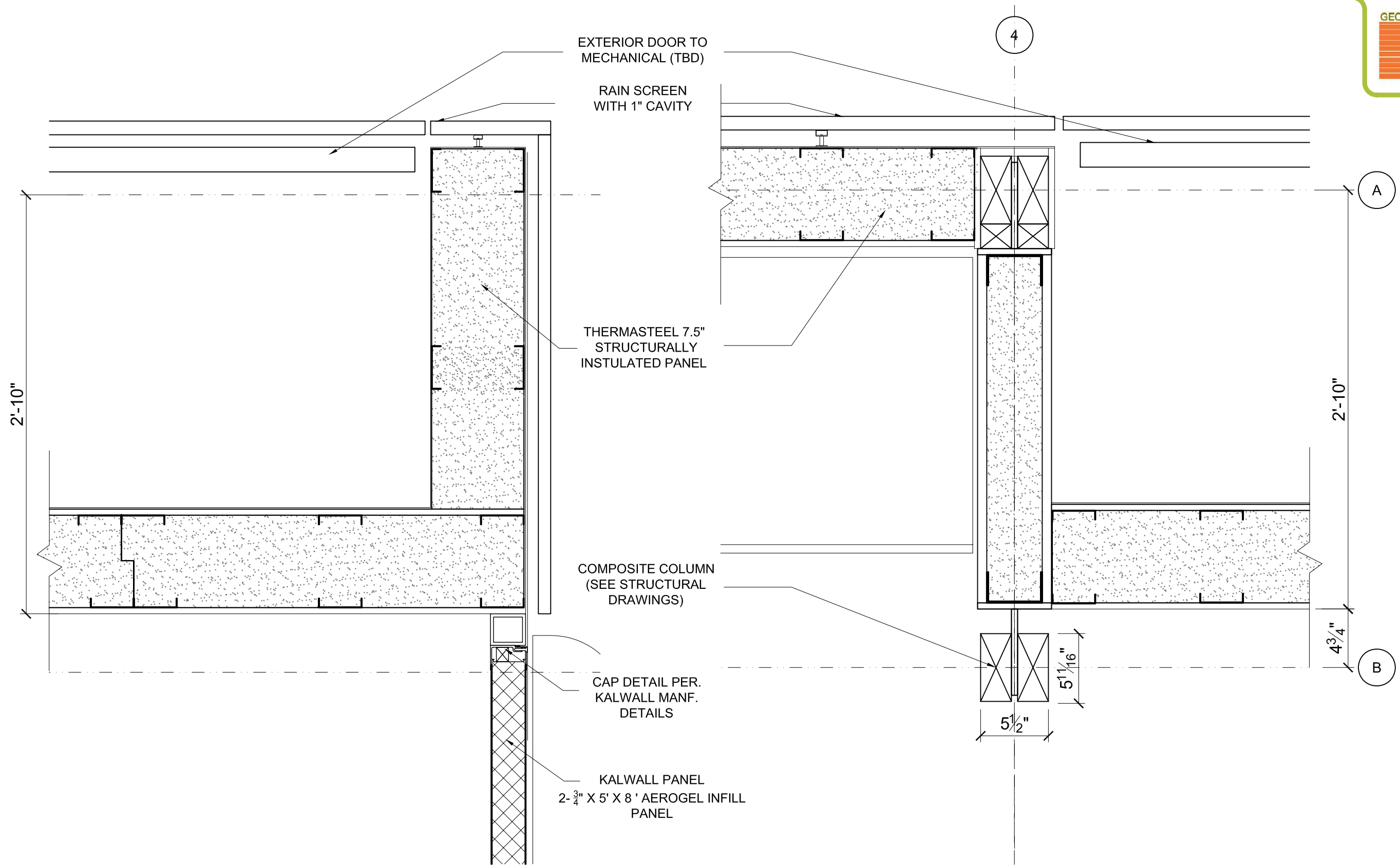


scale: 1-1/2" : 1' 0"

A.5.6

SIP ABUTMENT DETAILS - NORTH WALL





date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Tony Piede**  
**Nadine Kashlan**  
date drawn:  
**03.06.07**  
**12.06.06**



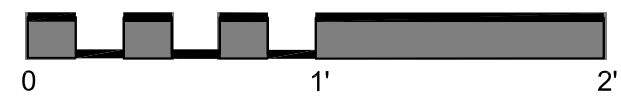
scale: 1-1/2" : 1' 0"

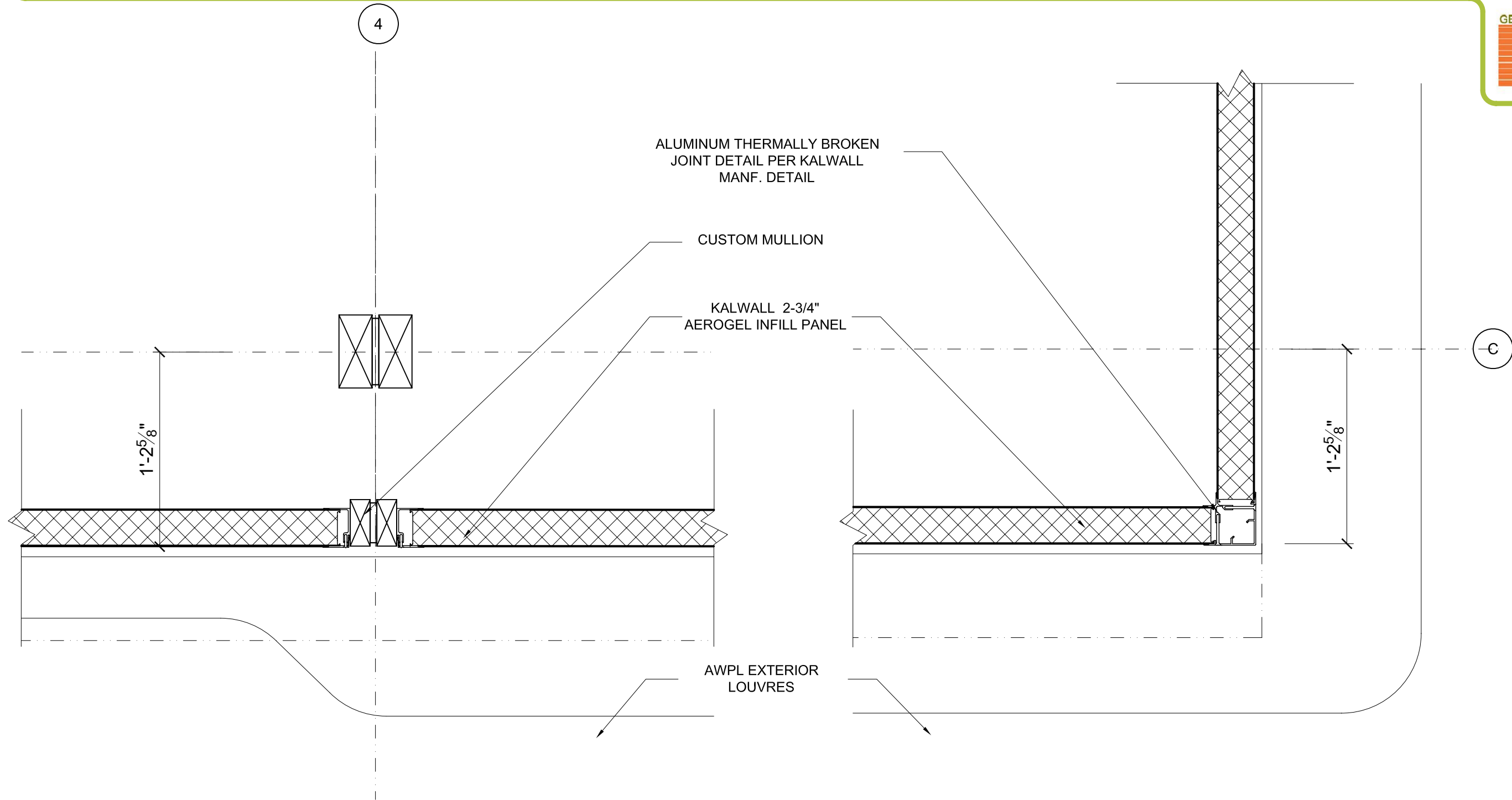
A.5.7

SIP ABUTMENT DETAILS

2 SIP - KALWALL JOINT, EAST FACADE  
A.5.7

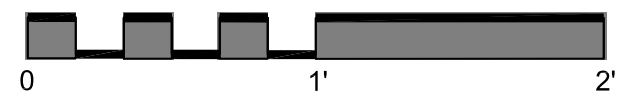
1 SIP ABUTMENT DETAIL  
A.5.7





2 KALWALL PANEL JOINT - SOUTH WALL  
A.5.8

1 KALWALL CORNER DETAIL - SE CORNER  
A.5.8



date	
revision	
description	

consultants:



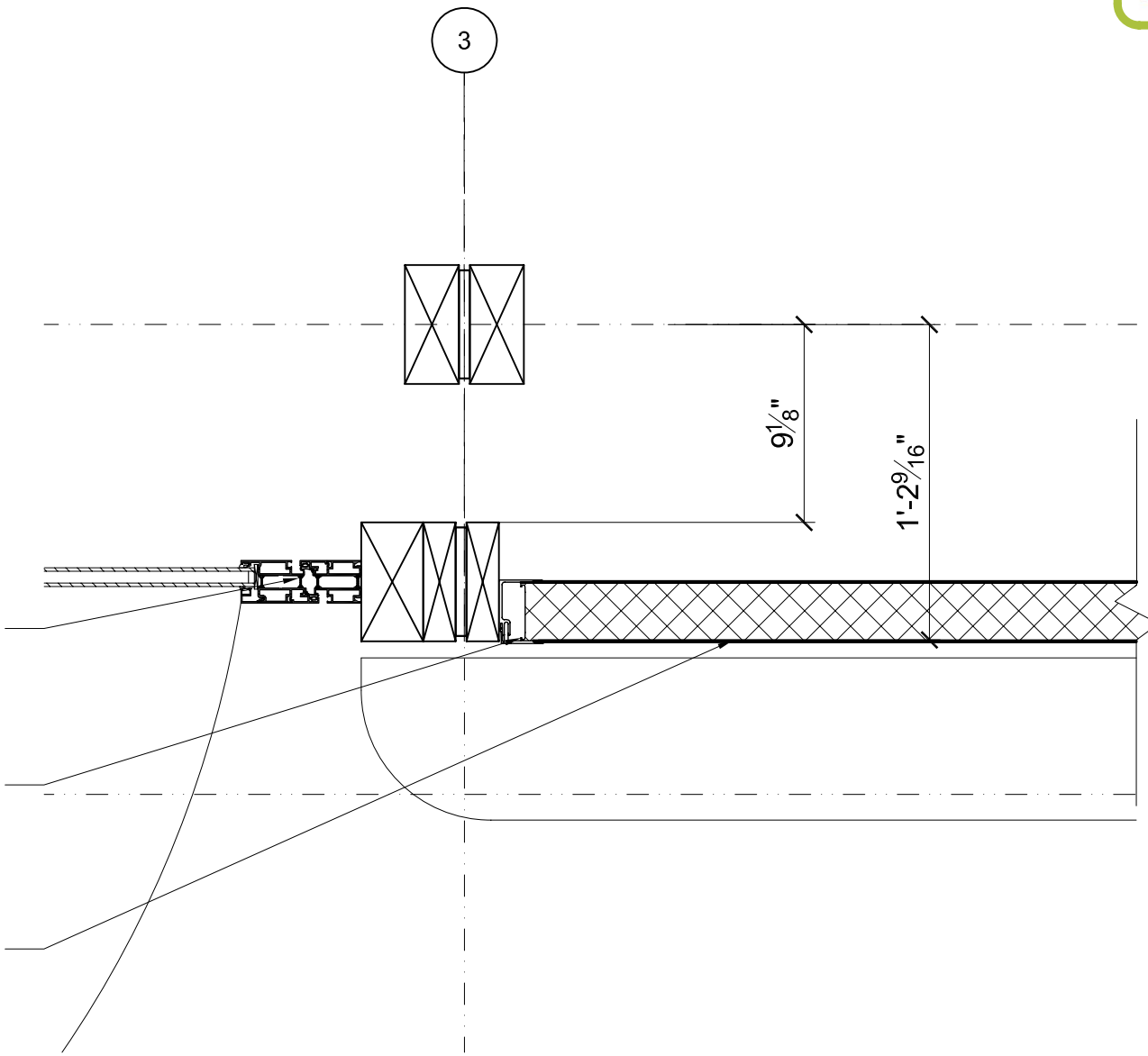
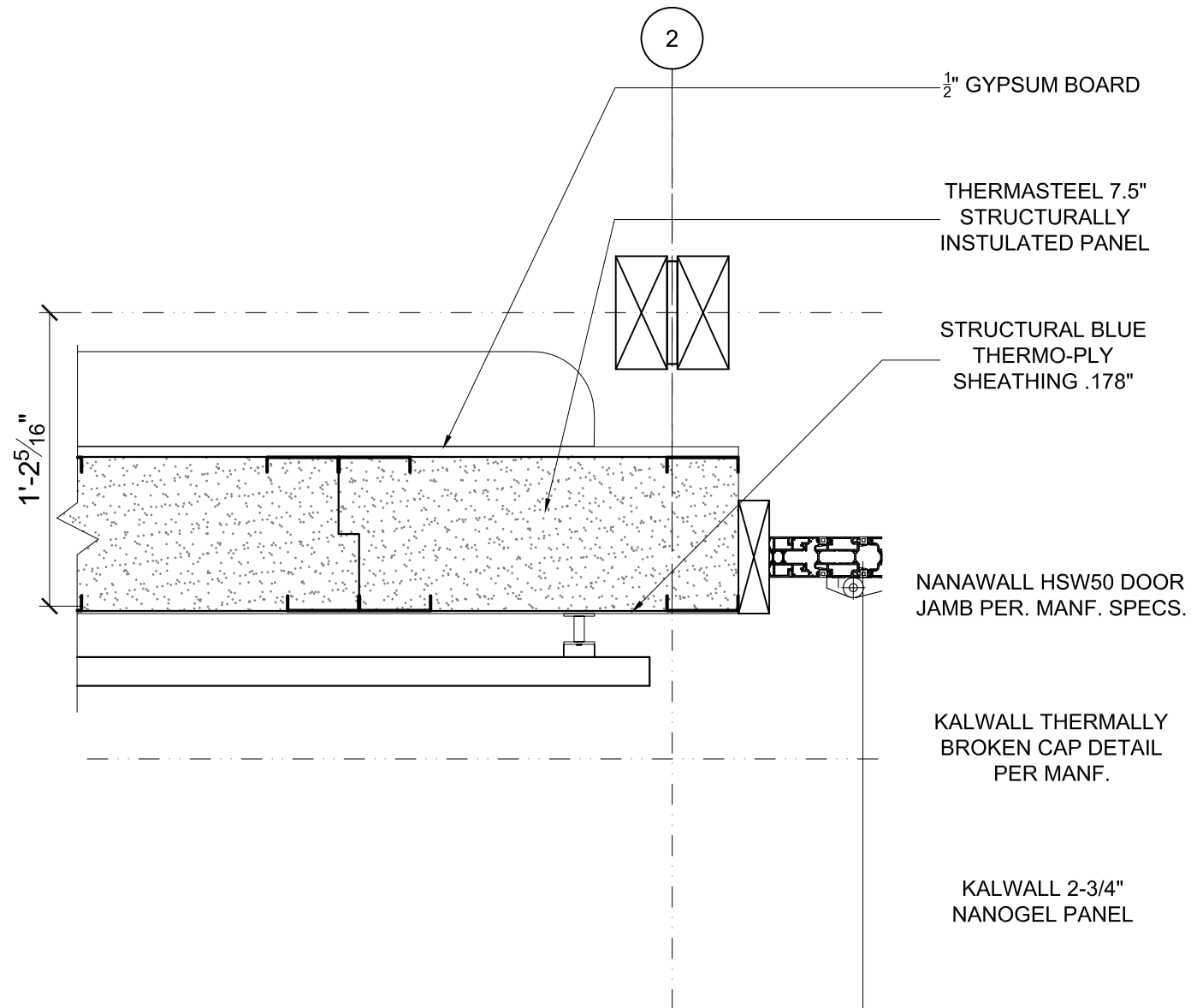
prepared by:  
**Tony Piede**  
**Nadine Kashlan**  
date drawn:  
**03.06.07**  
**12.06.06**



scale: 1-1/2" : 1' 0"

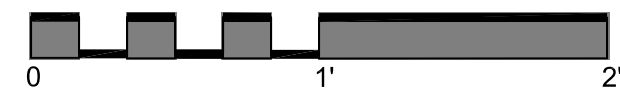
A.5.8

KALLWALL ABUTMENT DETAILS



2 SIP - DOOR DETAIL  
A.5.9

1 KALWALL - DOOR DETAIL  
A.5.9



date	
description	
revision	

consultants:

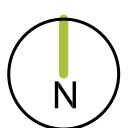
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



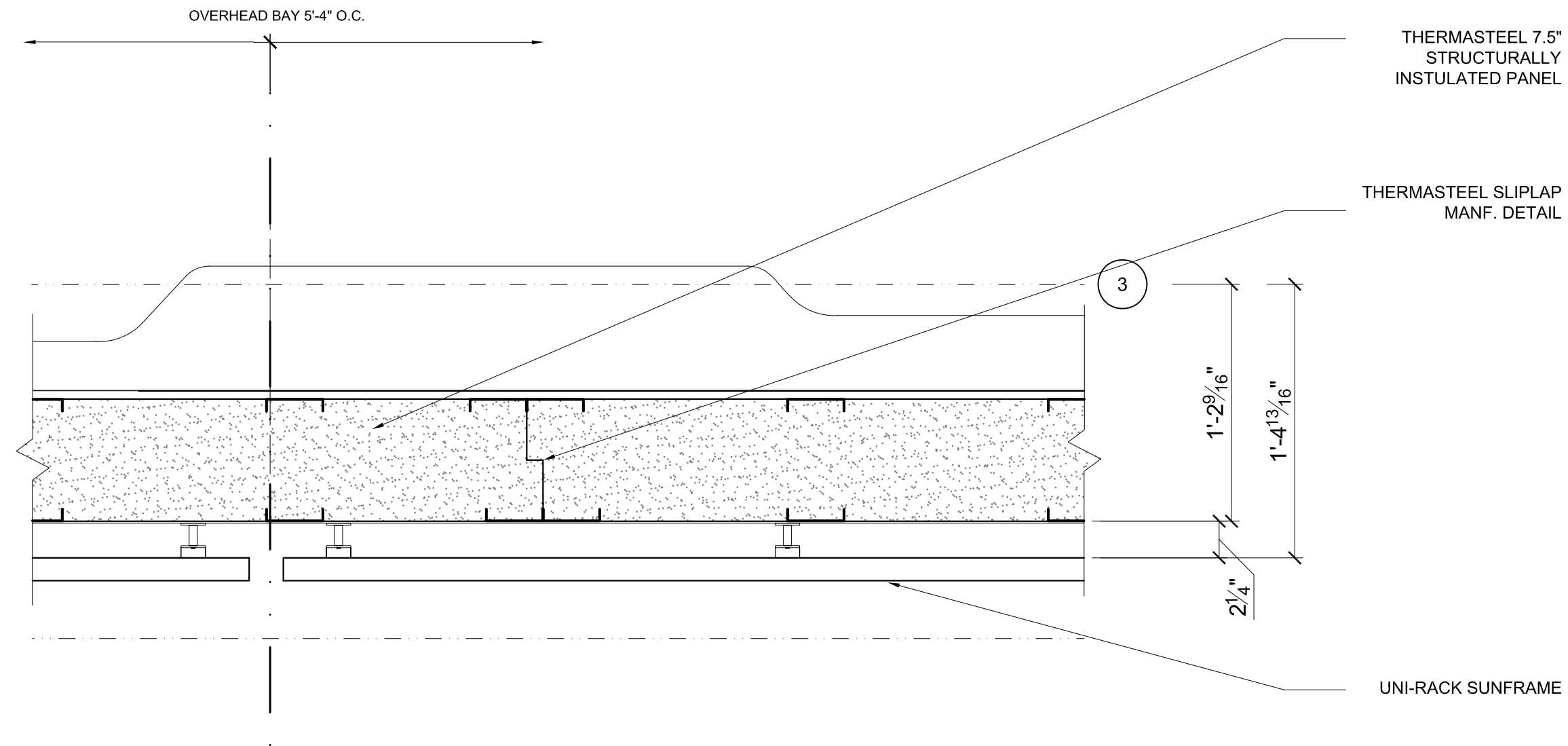
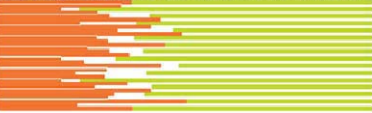
prepared by:  
**Tony Piede**  
**Nadine Kashlan**  
date drawn:  
**03.06.07**  
**12.06.06**



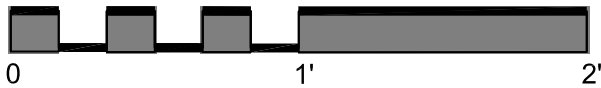
scale: 1-1/2" : 1' 0"

A.5.9

KALWALL - DOOR JOINT DETAIL - SOUTH WALL



1 SIP - PV JOINT DETAIL - SOUTH WALL  
A.5.10



date	
revision	
description	

consultants:



prepared by:

Tony Piede  
Nadine Kashlan

date drawn:

03.06.07  
12.06.06



scale: 1-1/2" : 1' 0"

A.5.10

SIP - PV JOINT DETAIL-SOUTH WALL



revision	description	date

consultants:



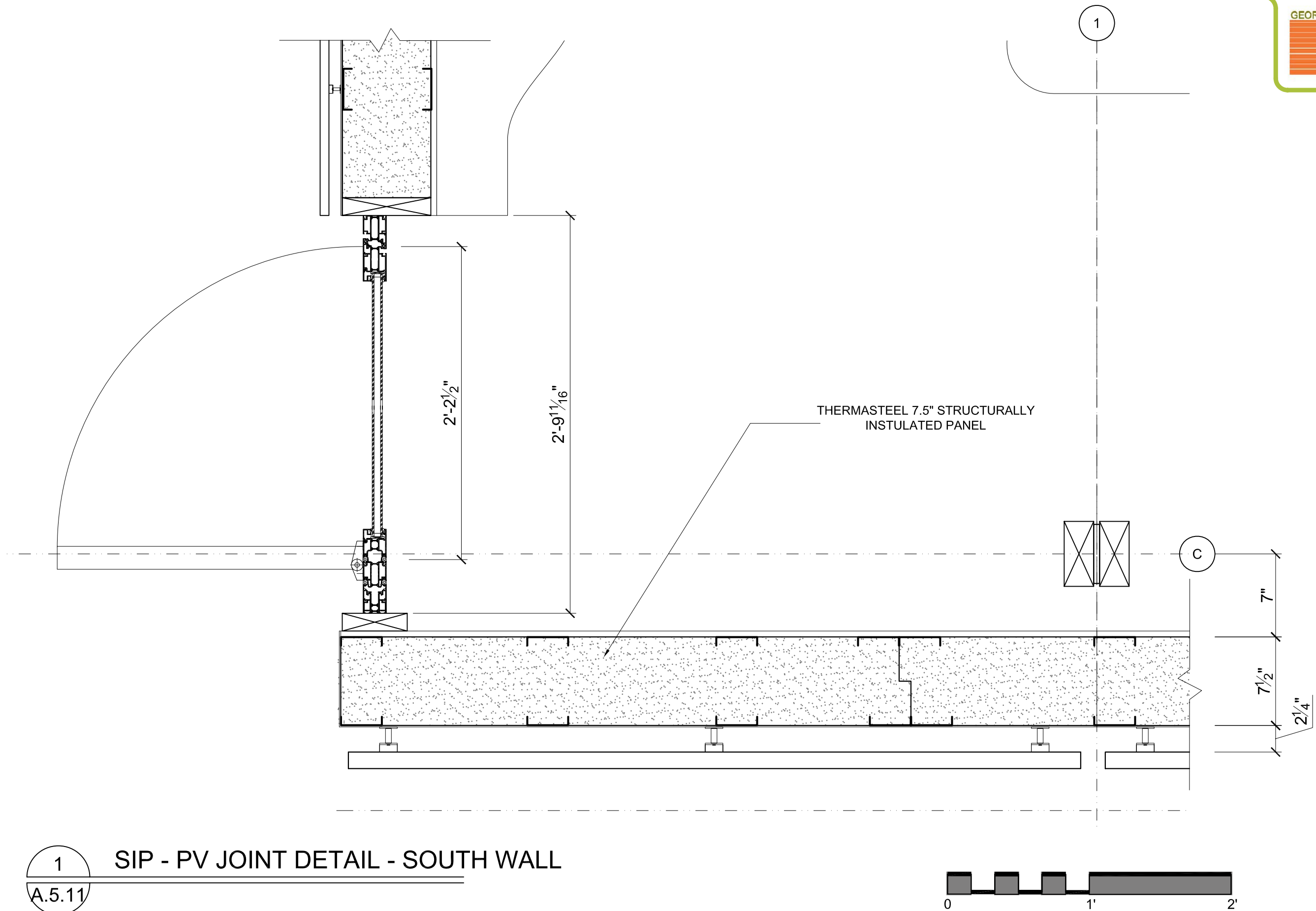
prepared by:  
**Tony Piede**  
**Nadine Kashlan**  
date drawn:  
**03.06.07**  
**12.06.06**



scale: 1-1/2" : 1' 0"

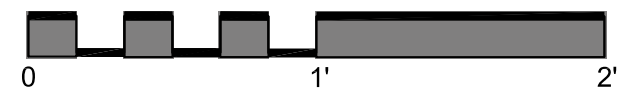
A.5.11

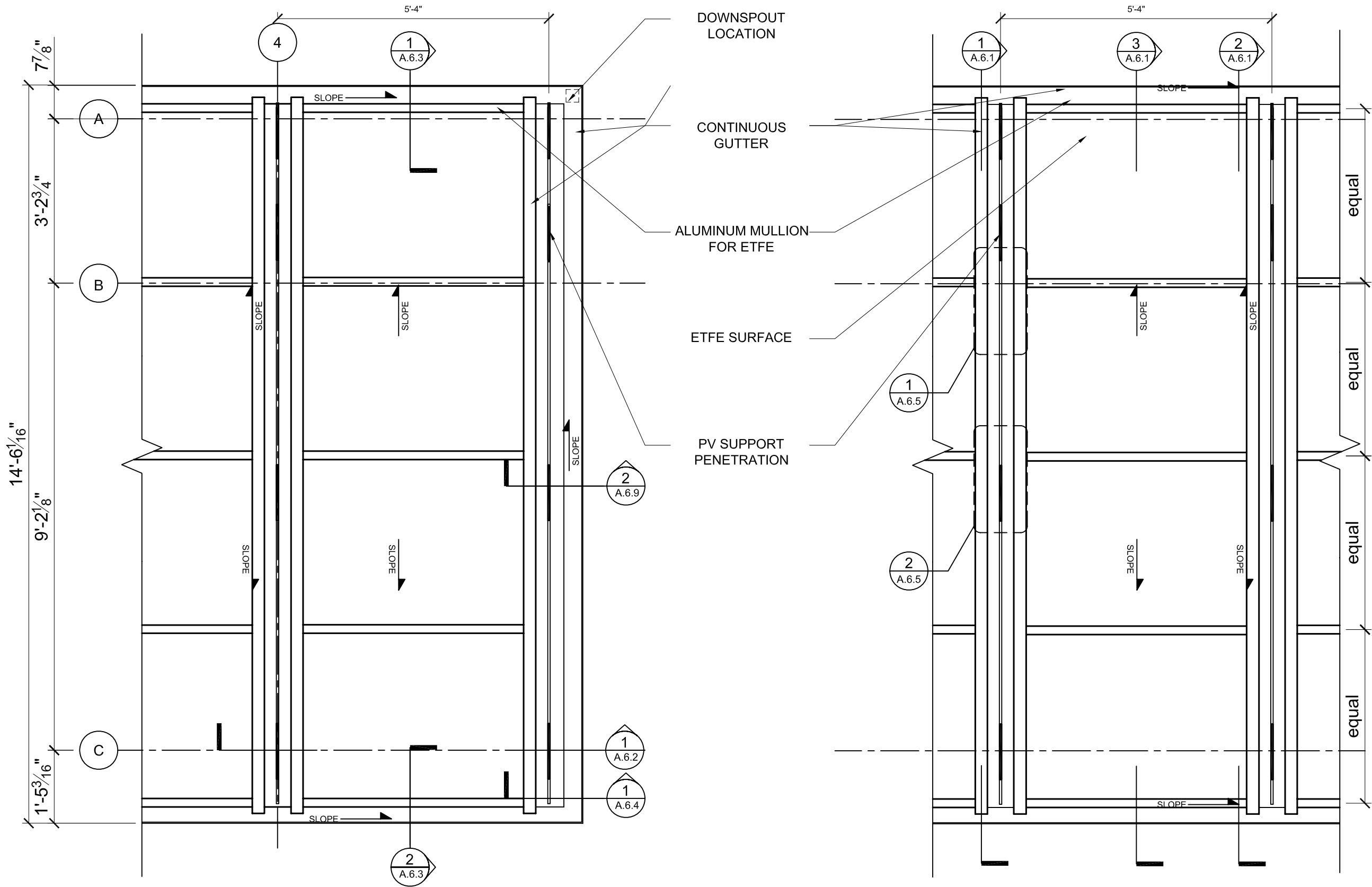
SIP - PV JOINT DETAIL - SOUTH WALL



1  
A.5.11

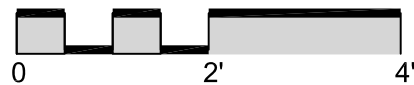
SIP - PV JOINT DETAIL - SOUTH WALL





2  
A.6.0

DETAIL ROOF BAY AT ENDS



1  
A.6.0

TYPICAL DETAIL ROOF BAY

date	
description	
revision	

consultants:

\_\_\_\_\_

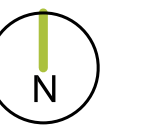
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



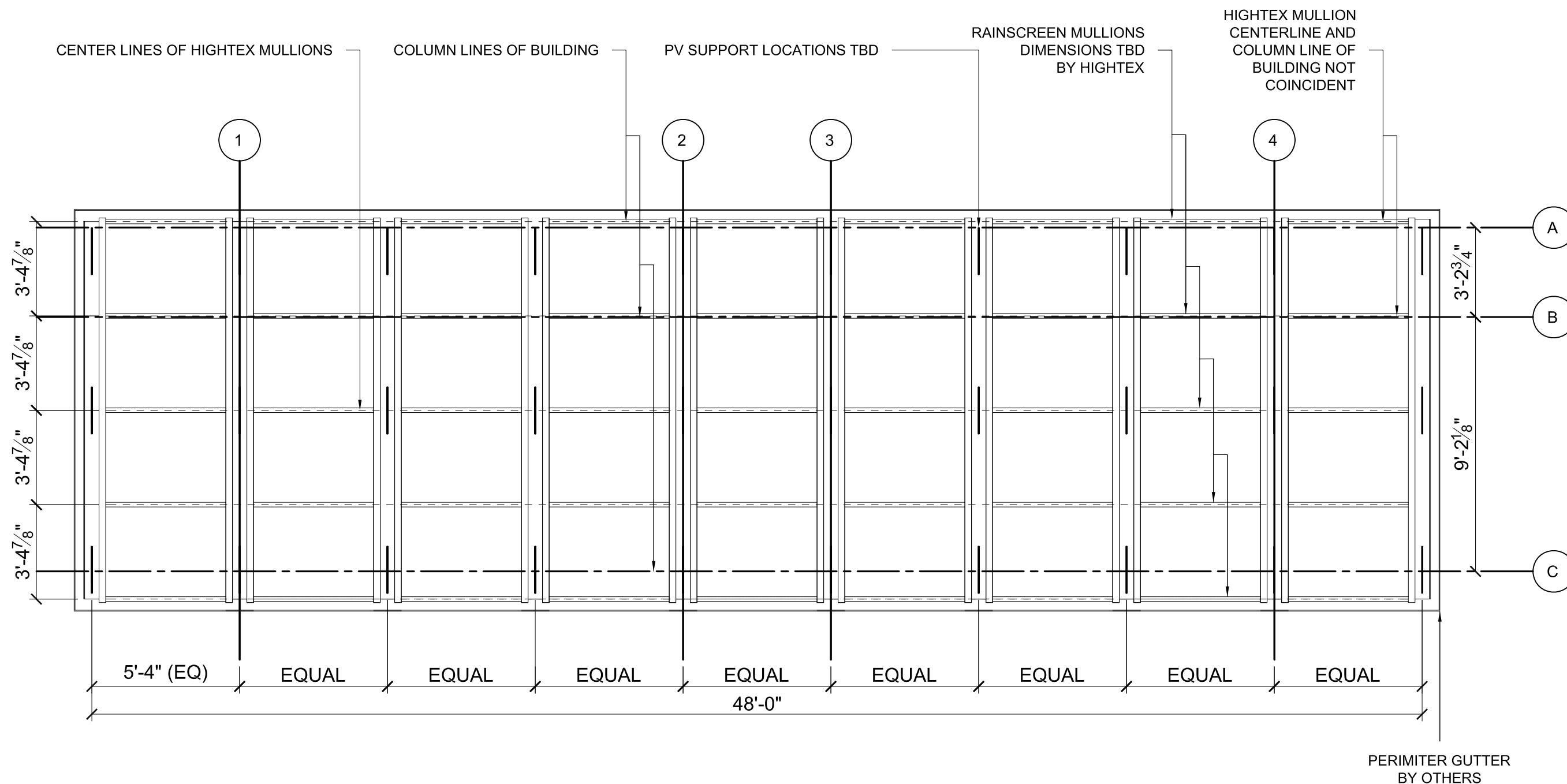
prepared by:  
**A. Jakubiec**  
**C. Luchian**  
date drawn:  
**05.22.07**



scale: 1/2" : 1' 0"

A.6.0

ETfE ROOF DETAILS



date	
description	
revision	

consultants:

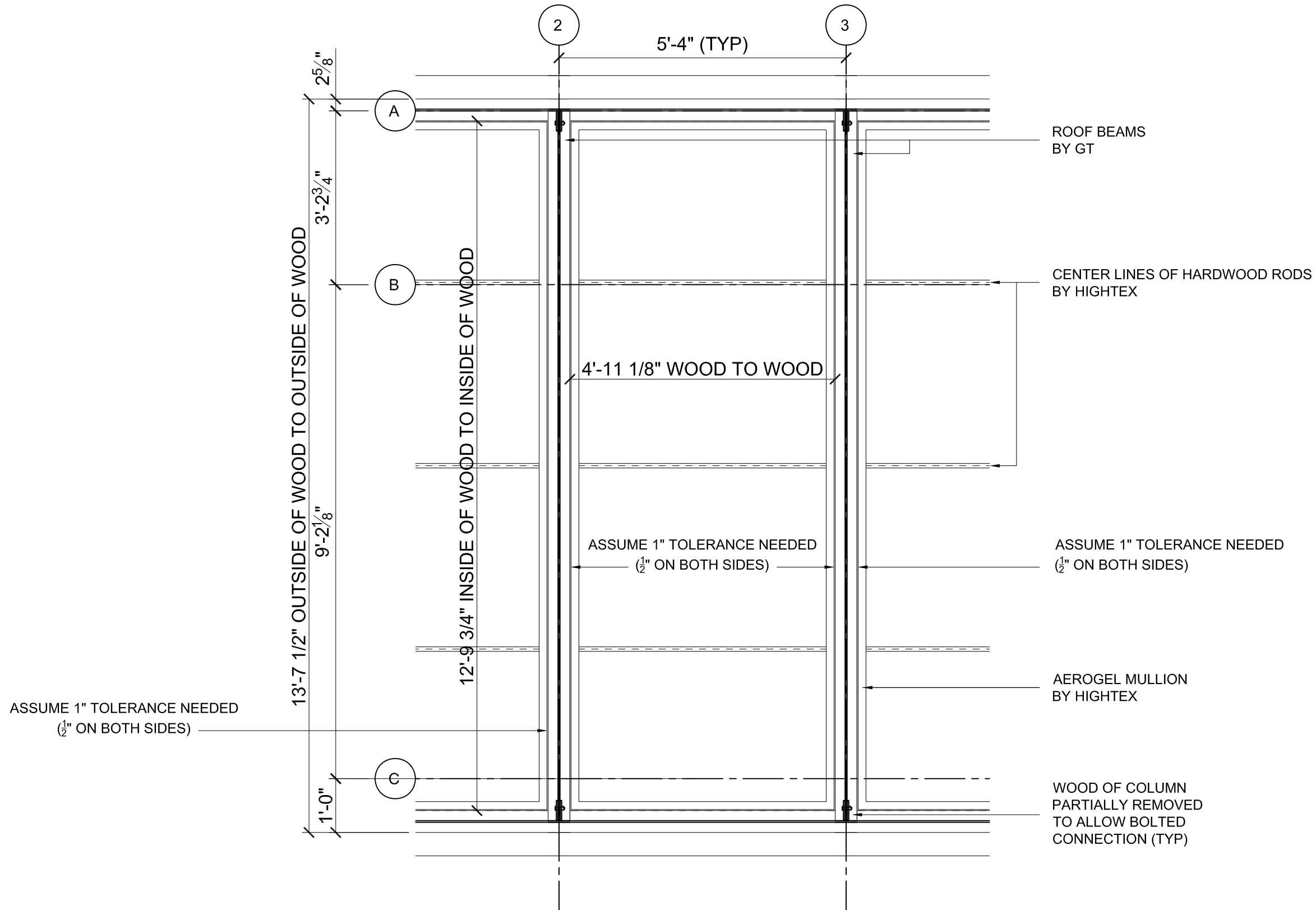


prepared by:  
**A. Jakubiec**  
date drawn:  
**06.01.07**



scale:  $\frac{1}{4}" = 1'$

ETFE RAINSCREEN ROOF PLAN



revision	description	date
A	revised as per June 3 emails	06.03.07

consultants:



prepared by:  
**A. Jakubiec**

date drawn:  
**06.01.07**



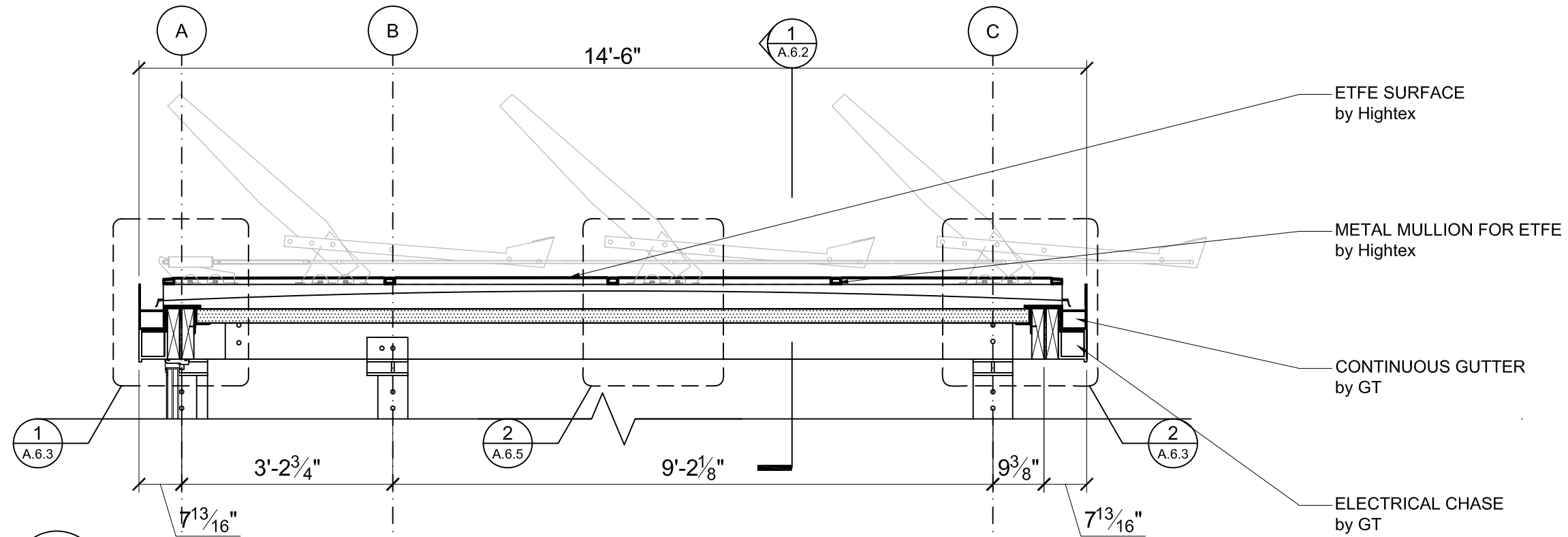
scale:  $\frac{1}{2}" = 1'$

REFLECTED CEILING PLAN AT AEROGEL / ETFE

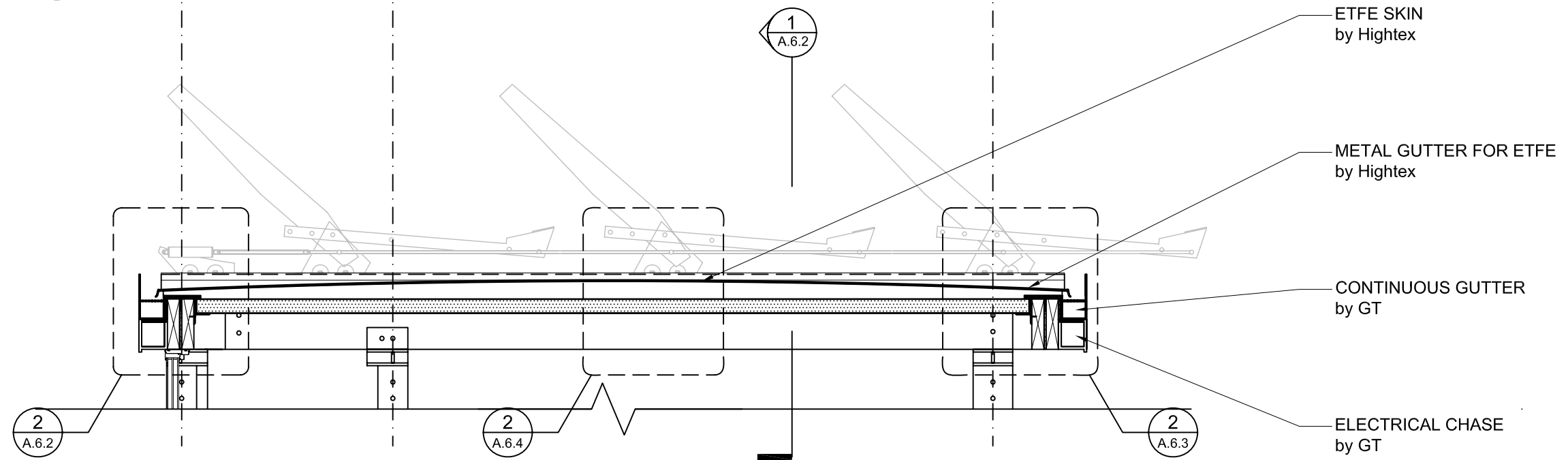
A.6.0.b

1 TYPICAL BAY - REFLECTED CEILING PLAN  
A.6.0.b AT AEROGEL / ETFE LAYER

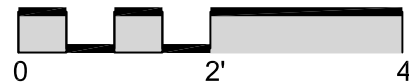




2  
A.6.1  
SECTION ILLUSTRATING ETFE PILLOW



1  
A.6.1  
SECTION ILLUSTRATING ETFE MULLION



date	
description	
revision	

consultants:



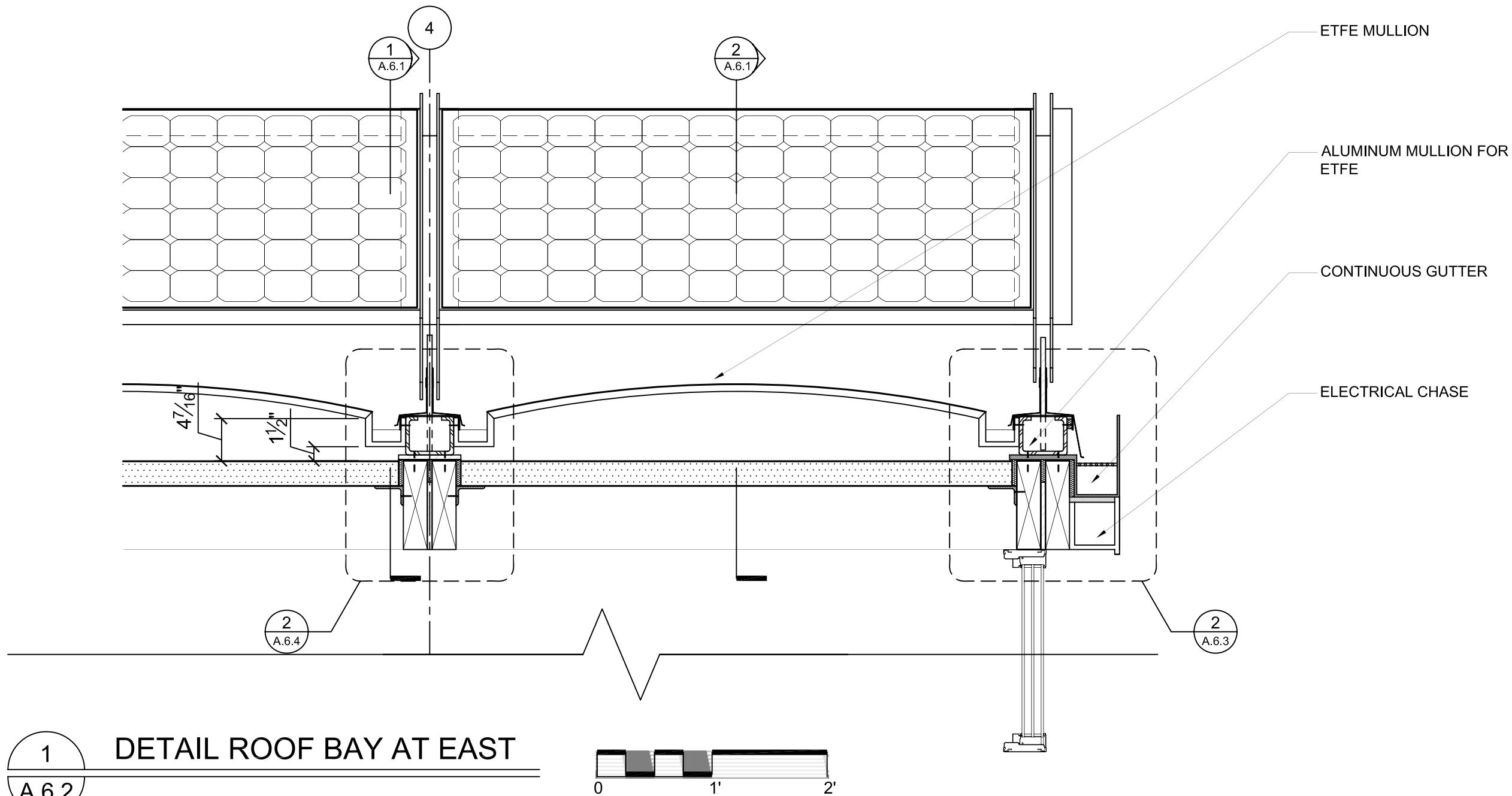
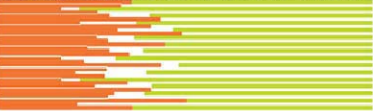
prepared by:  
A. Jakubiec  
C. Luchian  
date drawn:  
05.22.07  
04.02.07



scale: 1/2" : 1' 0"

A.6.1

ETFE ROOF DETAILS



ETFE MULLION

ALUMINUM MULLION FOR  
ETFE

CONTINUOUS GUTTER

ELECTRICAL CHASE

1  
A.6.2

DETAIL ROOF BAY AT EAST

date

description

revision

consultants:



prepared by:  
**Alstan Jakubiec**  
date drawn:  
**11.26.06**



scale: **1" : 1' 0"**

ETFE ROOF DETAILS

A.6.2

date	
description	
revision	

consultants:



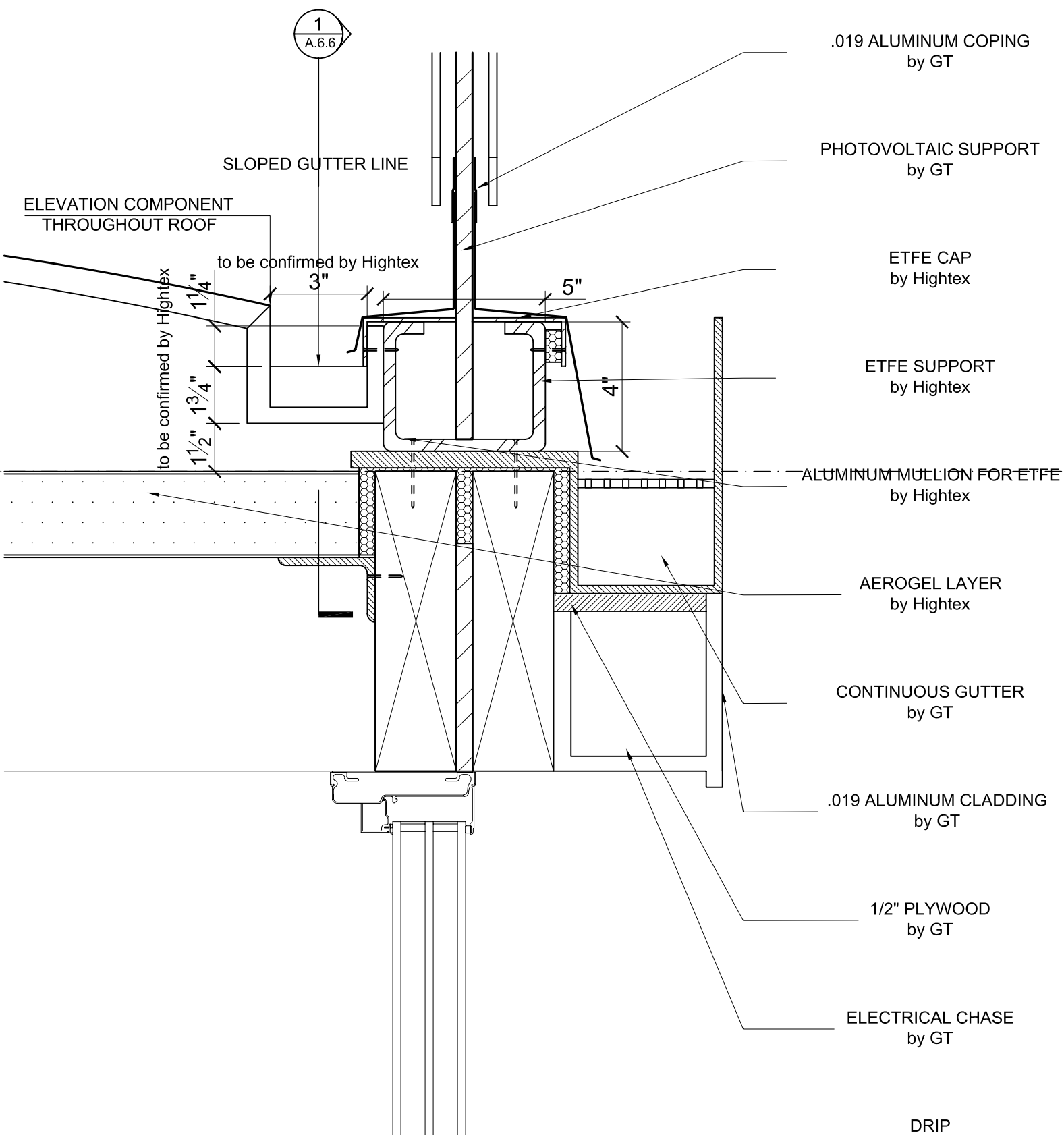
prepared by:  
**Alstan Jakubiec**  
date drawn:  
**12.04.06**



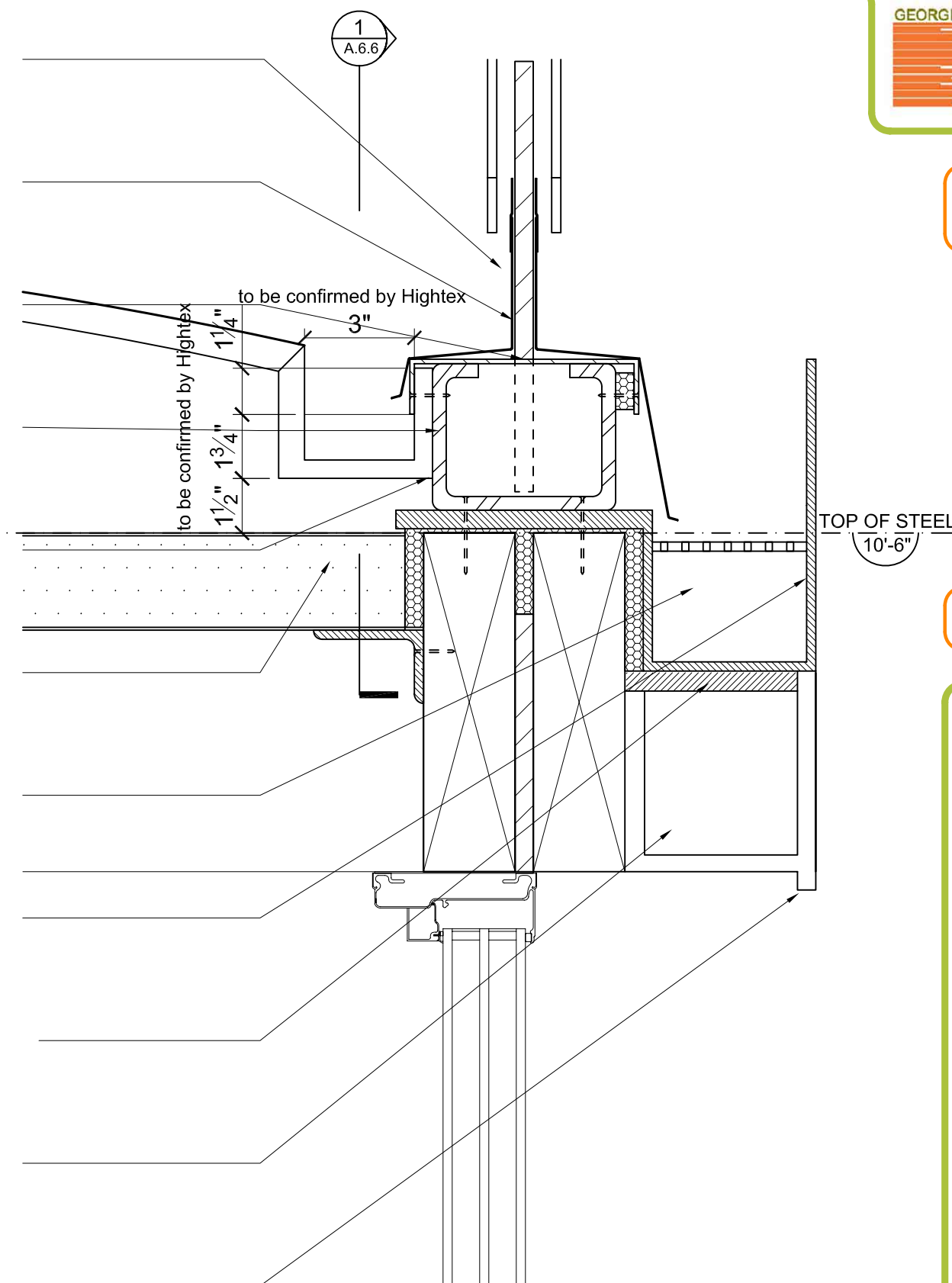
scale: **3" : 1' 0"**

**A.6.3**

ETFE ROOF DETAILS



2  
A.6.3  
DETAIL AT EAST PV SUPPORT



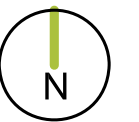
1  
A.6.3  
TYPICAL DETAIL AT EAST

date	
revision	
description	

consultants:



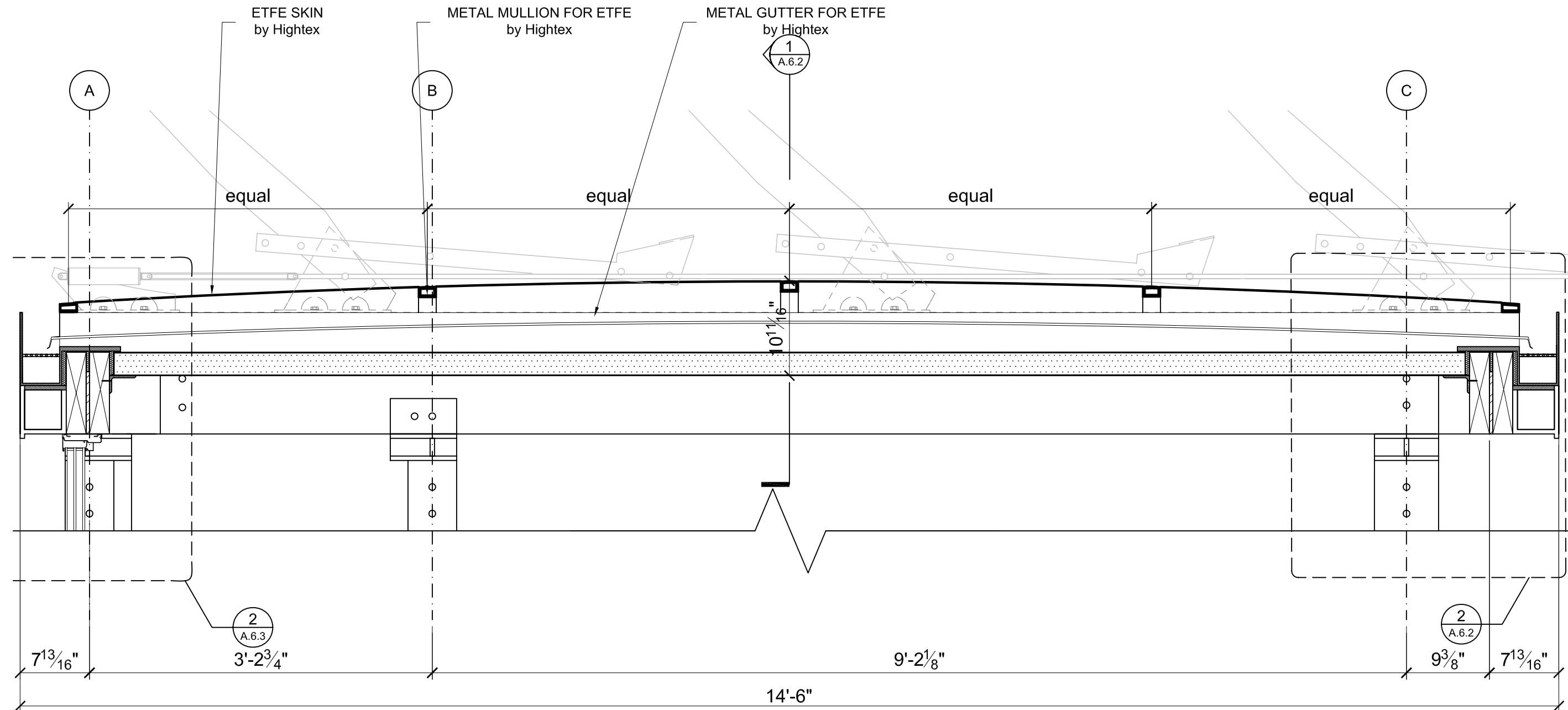
prepared by:  
**A. Jakubiec**  
**C. Luchian**  
date drawn:  
**05.22.07**  
**04.02.07**



scale: **3" : 1' 0"**

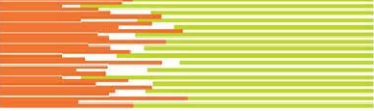
**A.6.4**

ETFE ROOF DRAINAGE DETAILS



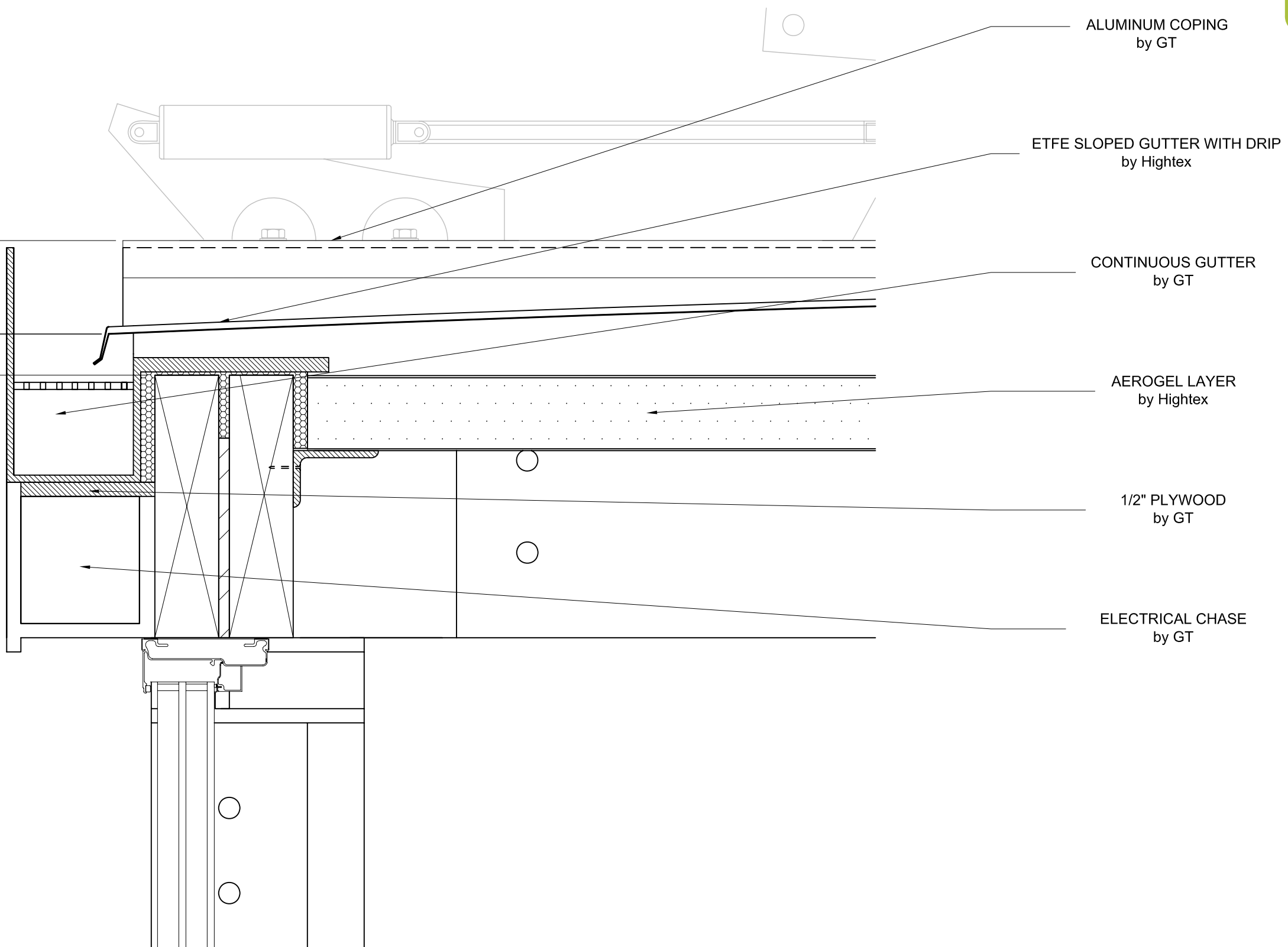
**3**  
**A.6.4**  
**SECTION ILLUSTRATING ETFE MULLION**





1 3/4" to max sloped gutter height

17/16"  
15/16"  
1/4"



date

description

revision

consultants:



prepared by:

**Alstan Jakubiec**

date drawn:

**11.26.06**



scale: **1/2" : 1' 0"**

**A.6.5**

ETFE ROOF DETAILS

1

A.6.5

DETAIL AT NORTH





date

description

revision

consultants:



prepared by:

A. Jakubiec

C. Luchian

date drawn:

08.02.07

05.22.07

04.02.07



scale: 1" : 1' 0"

A.6.6

ETFE ROOF DETAILS

2  
A.6.1

5'-4" typ.

ETFE MULLION  
by Hightex

ETFE SLOPED GUTTER  
by Hightex

AEROGEL LAYER  
by Hightex

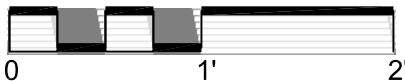
9 1/8"

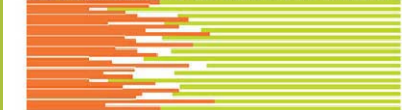
5 3/16"

DETAIL TYPICAL ROOF BAY

1

A.6.6





date

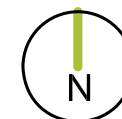
description

revision

consultants:



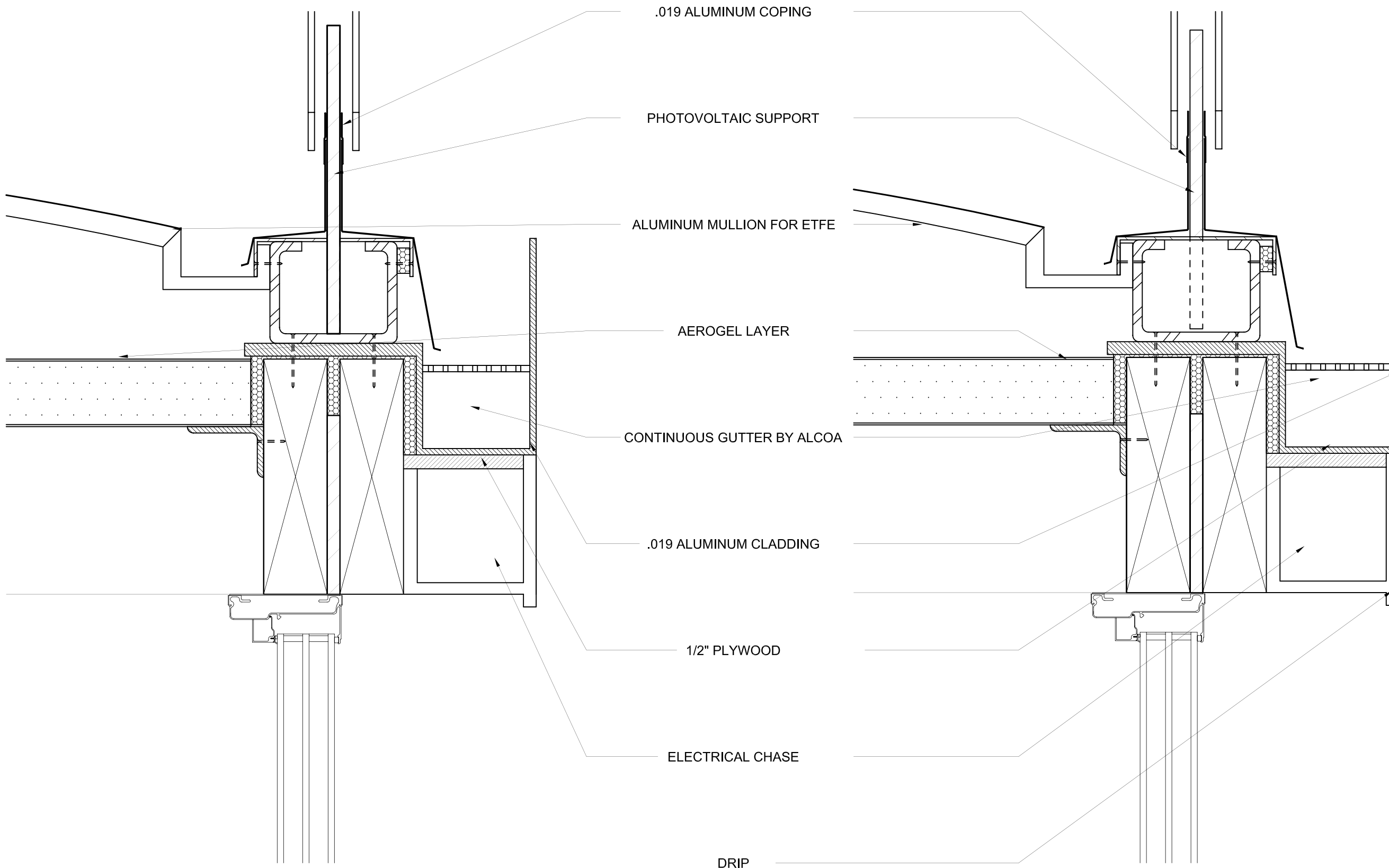
prepared by:  
**Alstan Jakubiec**  
date drawn:  
**12.04.06**



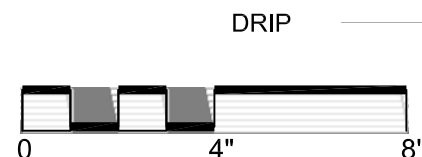
scale: **3" : 1' 0"**

**A.6.7**

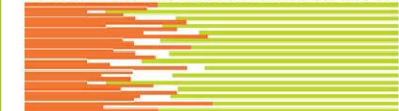
**ETFE ROOF DETAILS**



**2**  
**DETAIL AT EAST PV SUPPORT**  
**A.6.7**



**1**  
**TYPICAL DETAIL AT EAST**  
**A.6.7**



date	
description	
revision	

consultants:



prepared by:  
**A. Jakubiec**  
date drawn:  
**05.24.07**



scale: **NTS**

**A.6.8**

ETFE ROOF DETAILS

ETFE SKIN  
by Hightex

SLOPED MEMBER WITHIN GUTTER  
by Hightex

ETFE MULLIONS  
by Hightex

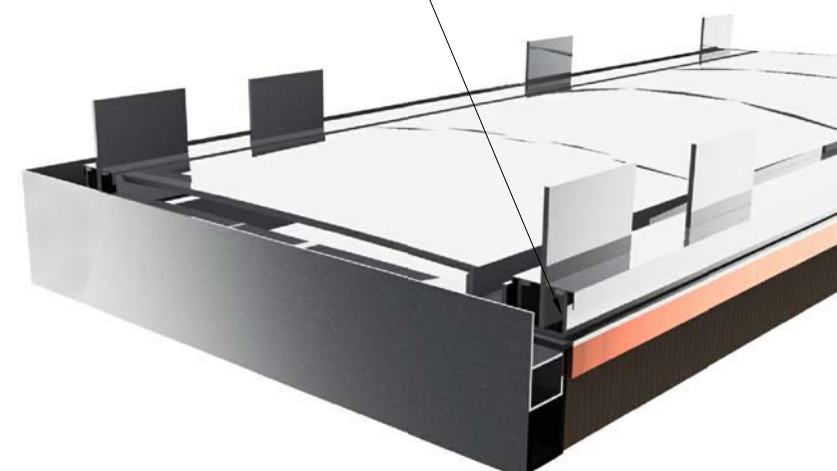
ETFE GUTTER  
by Hightex

AEROGEL LAYER  
by Hightex

PV SUPPORT PLATE  
by GT

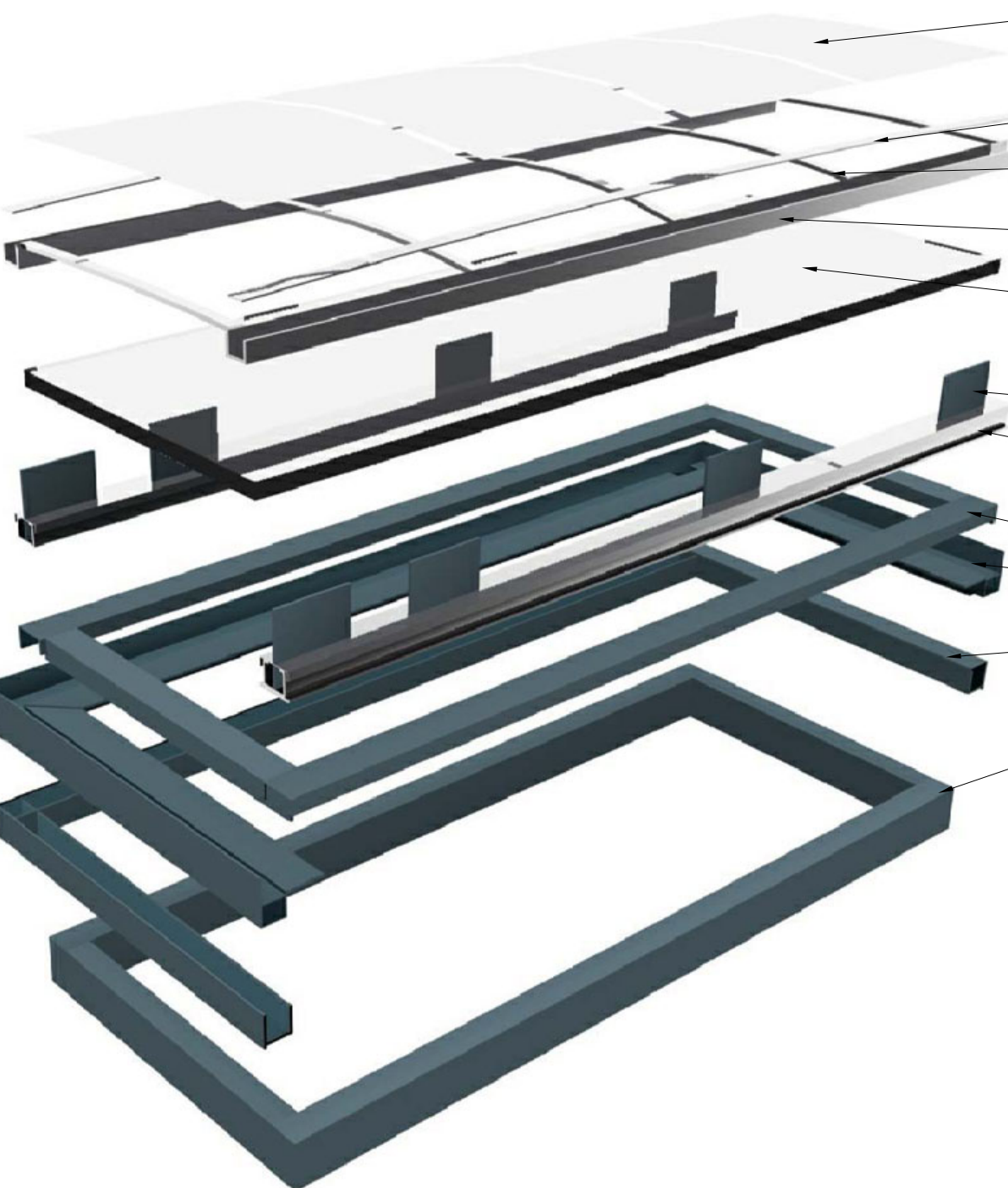
CHANNEL AND CAP  
by Hightex

GASKETS, GUTTER, ELECTRICAL CHASE,  
AND SUPPORT BEAM by GT (in green)



1 ROOF BAY PERSPECTIVE

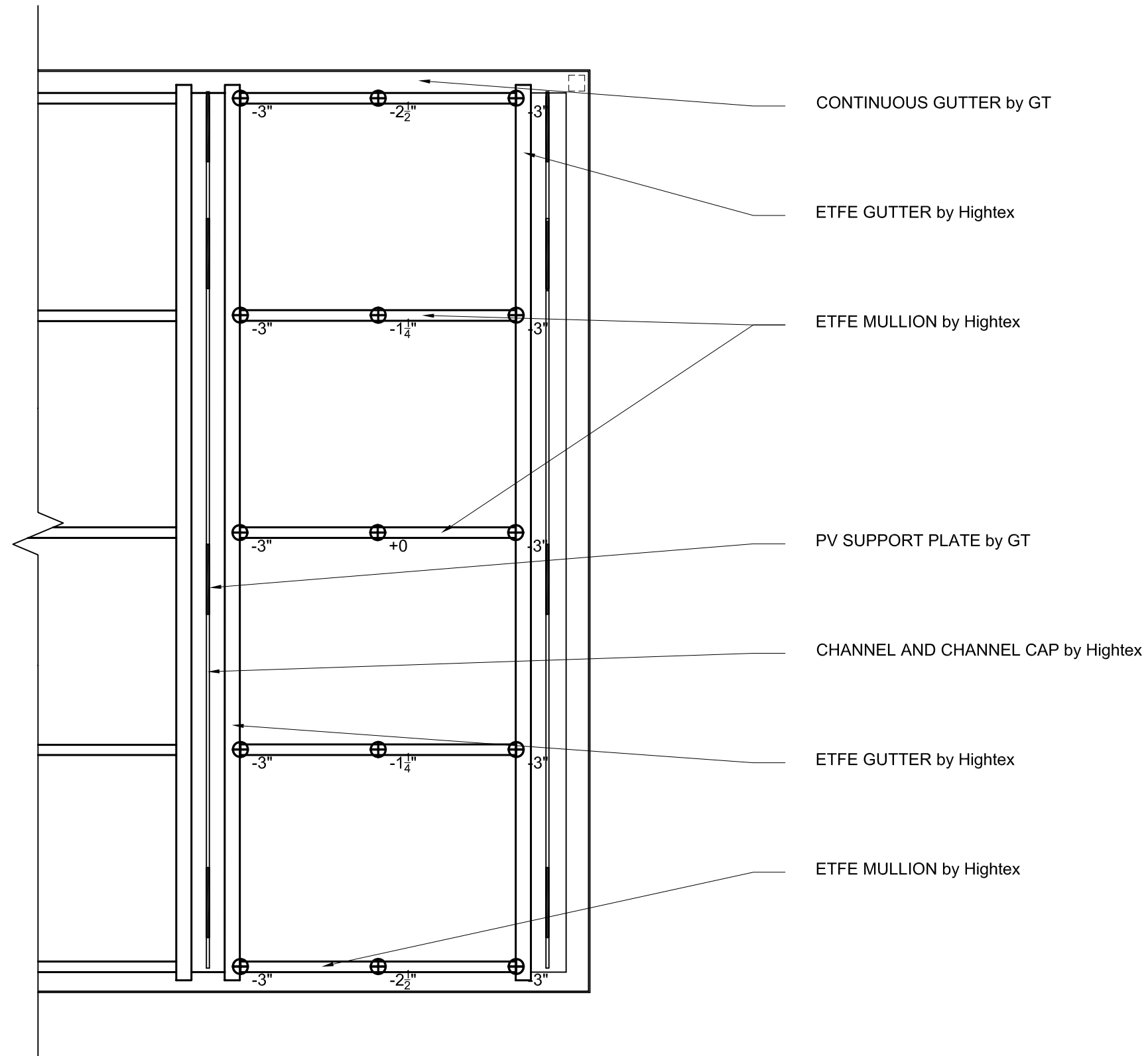
1  
A.6.8



2 ROOF BAY EXPLODED

2  
A.6.8





date	
description	
revision	

consultants:



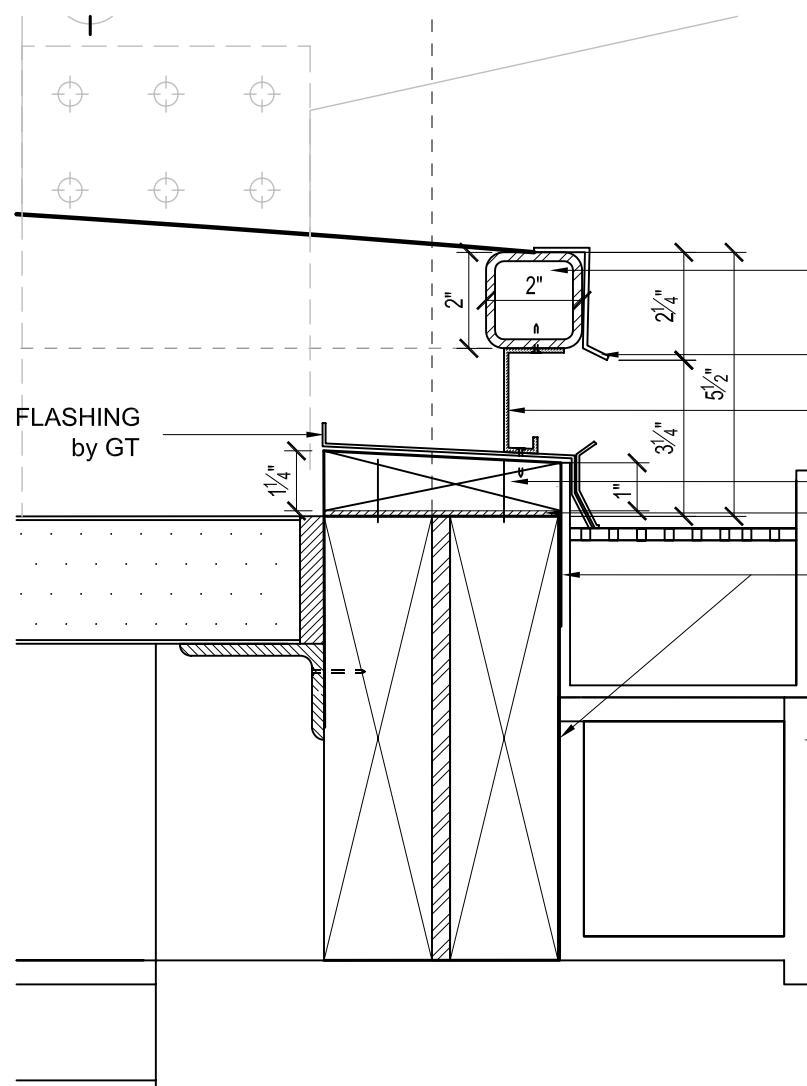
prepared by:  
**A. Jakubiec**  
date drawn:  
**05.24.07**



scale: 1/2" = 1'

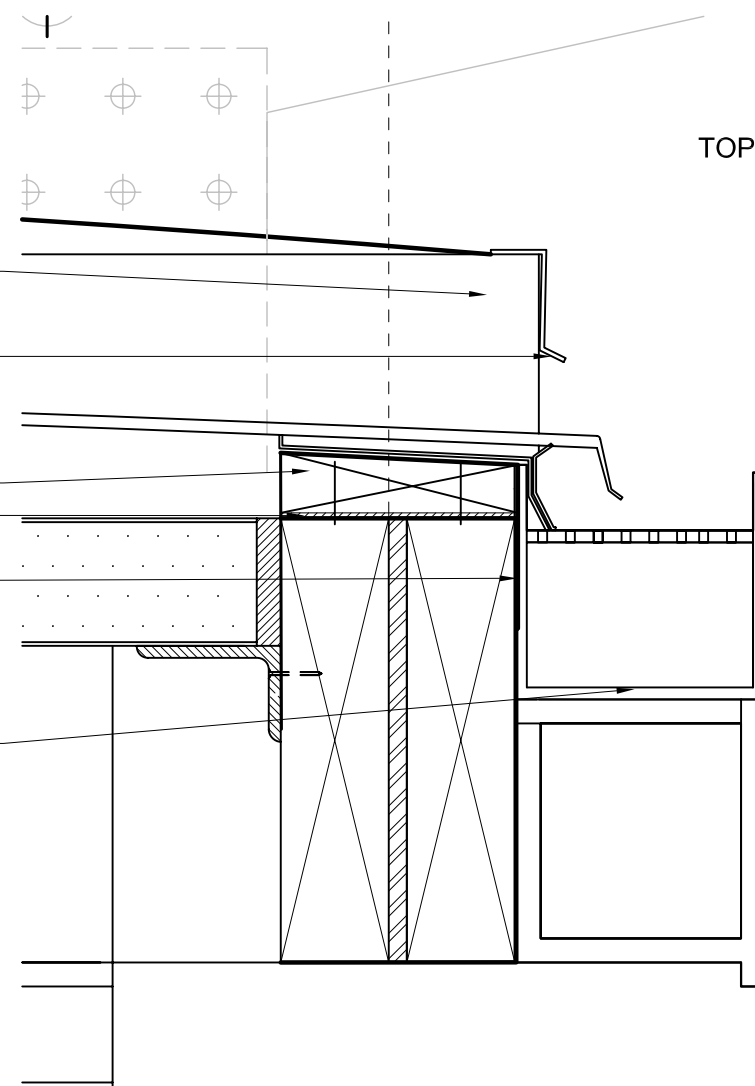
ETFE ROOF DETAILS

A.6.9



1  
A.6.10

TYPICAL DETAIL AT CENTER OF BAY



2  
A.6.10

TYPICAL DETAIL AT HIGHTEX GUTTER

11'-2"  
TOP OF ETFE MULLION

10'-6"  
TOP OF STEEL

date	07.02.07
description	bug screen details
revision	A

consultants:



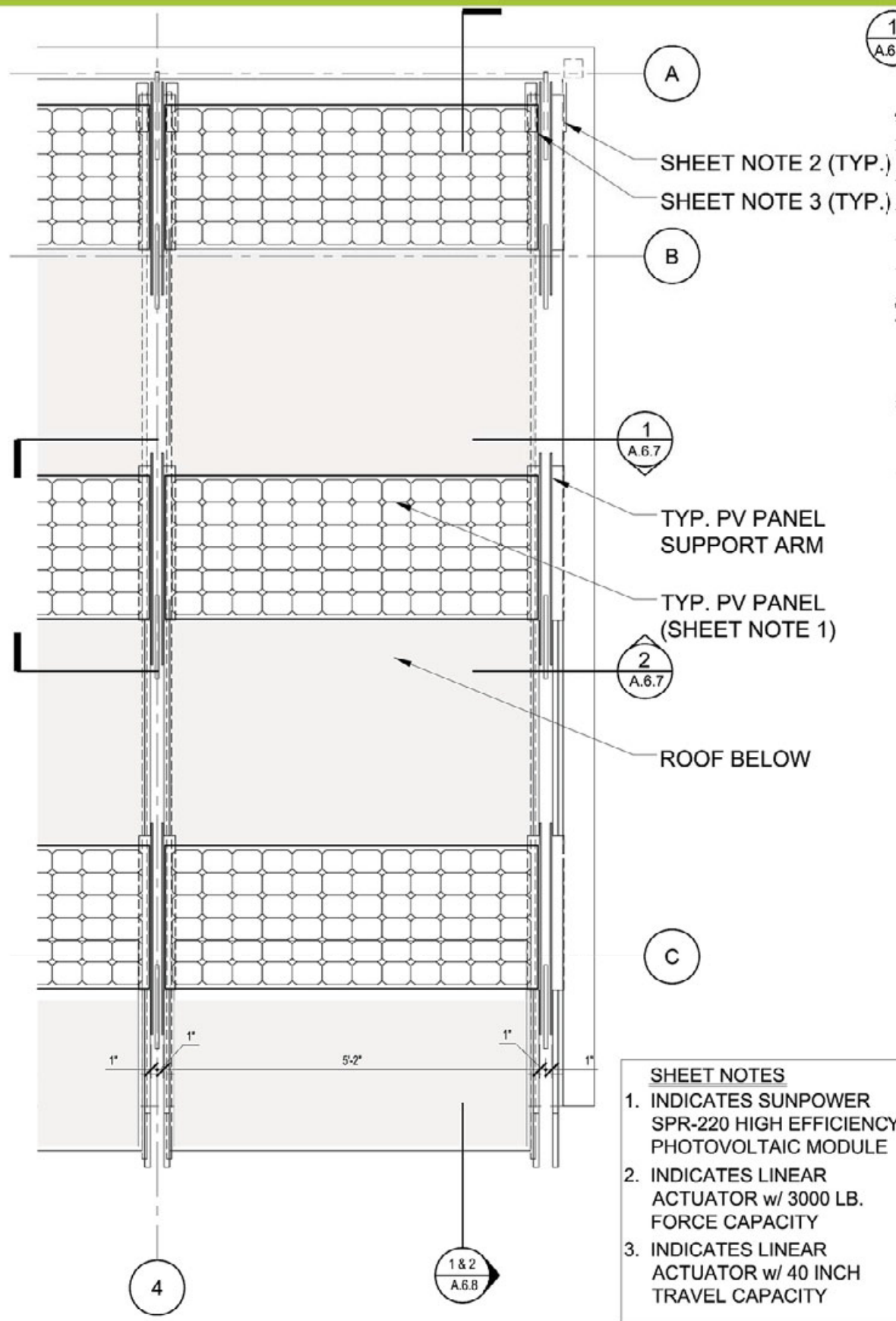
prepared by:  
**A. Jakubiec**  
date drawn:  
**05.24.07**



scale: **3" = 1'**

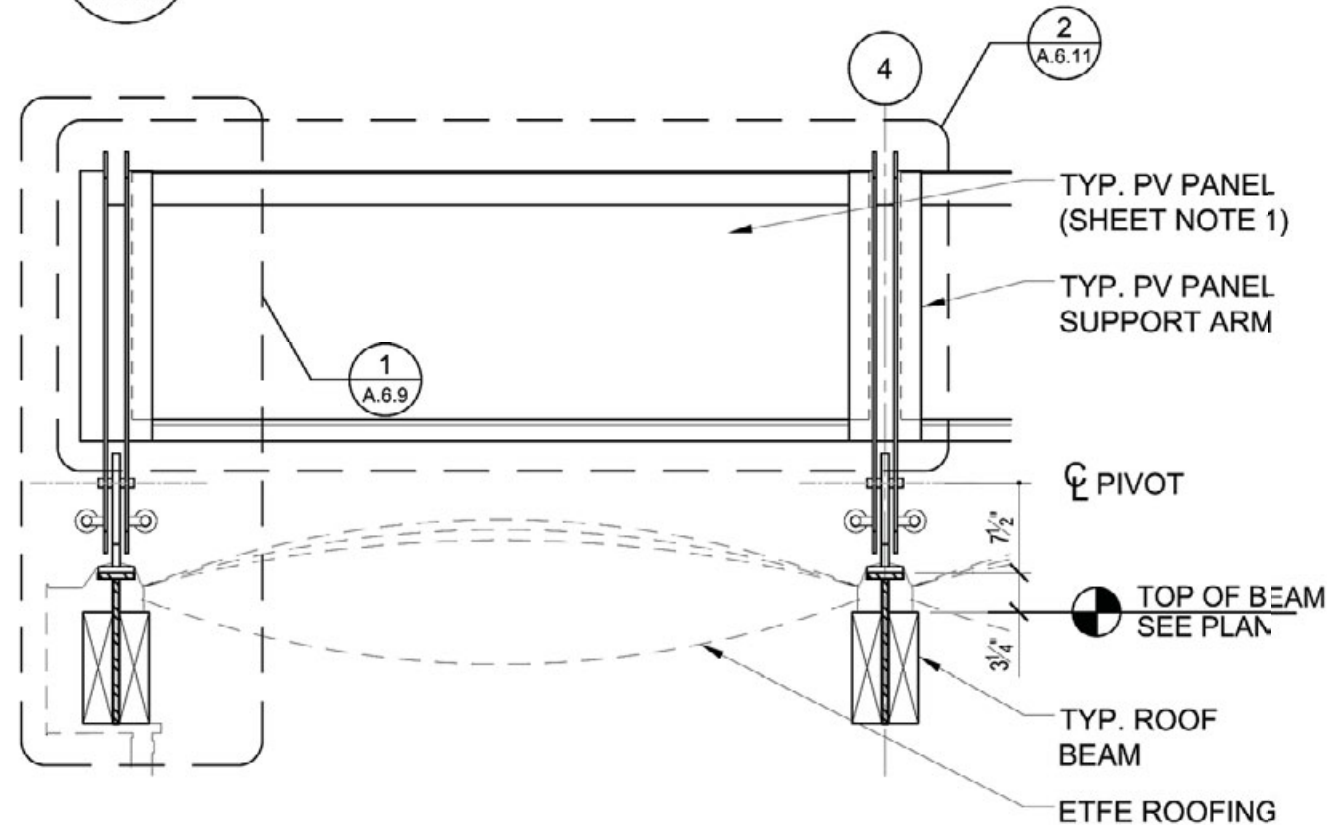
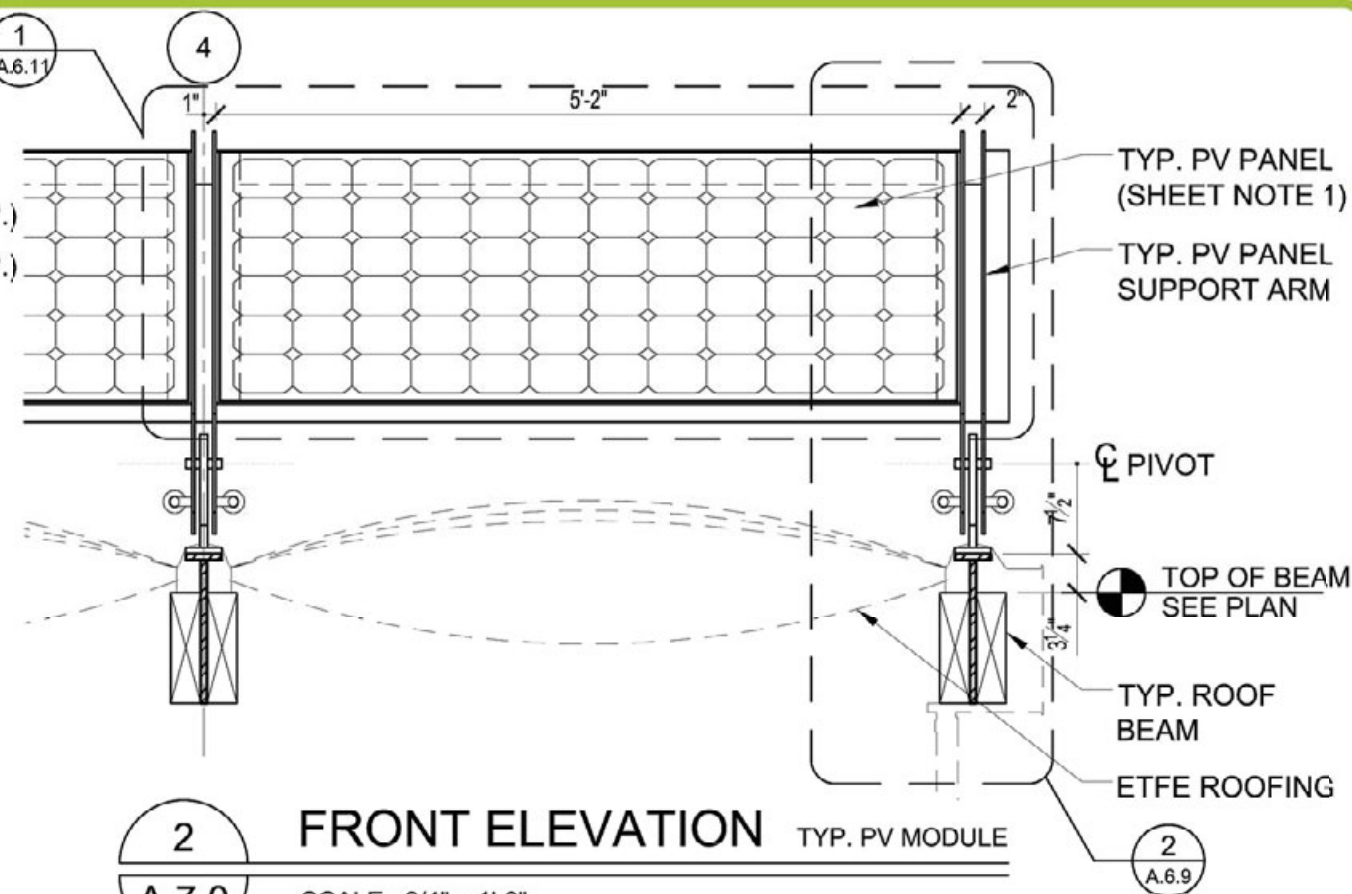
**A.6.10**

ETFE ROOF DETAILS



**SHEET NOTES**

1. INDICATES SUNPOWER SPR-220 HIGH EFFICIENCY PHOTOVOLTAIC MODULE
2. INDICATES LINEAR ACTUATOR w/ 3000 LB. FORCE CAPACITY
3. INDICATES LINEAR ACTUATOR w/ 40 INCH TRAVEL CAPACITY



date	
description	
revision	

consultants:




prepared by:

Jamie O'Kelley

date drawn:

12.04.06

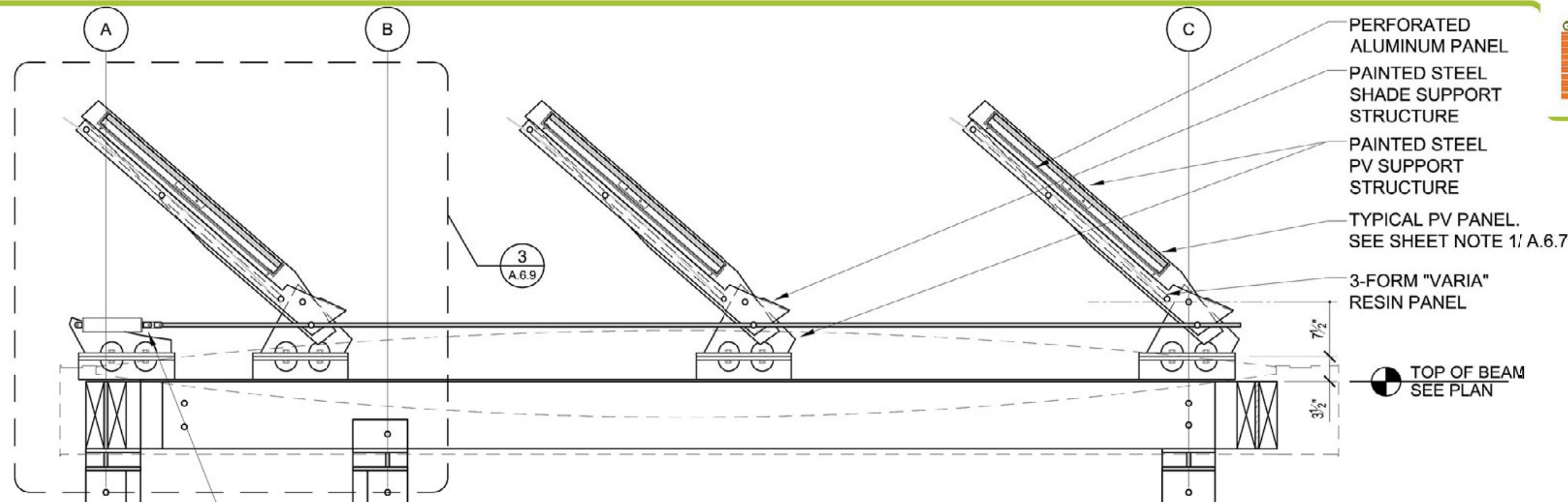
03.03.07

scale: as noted

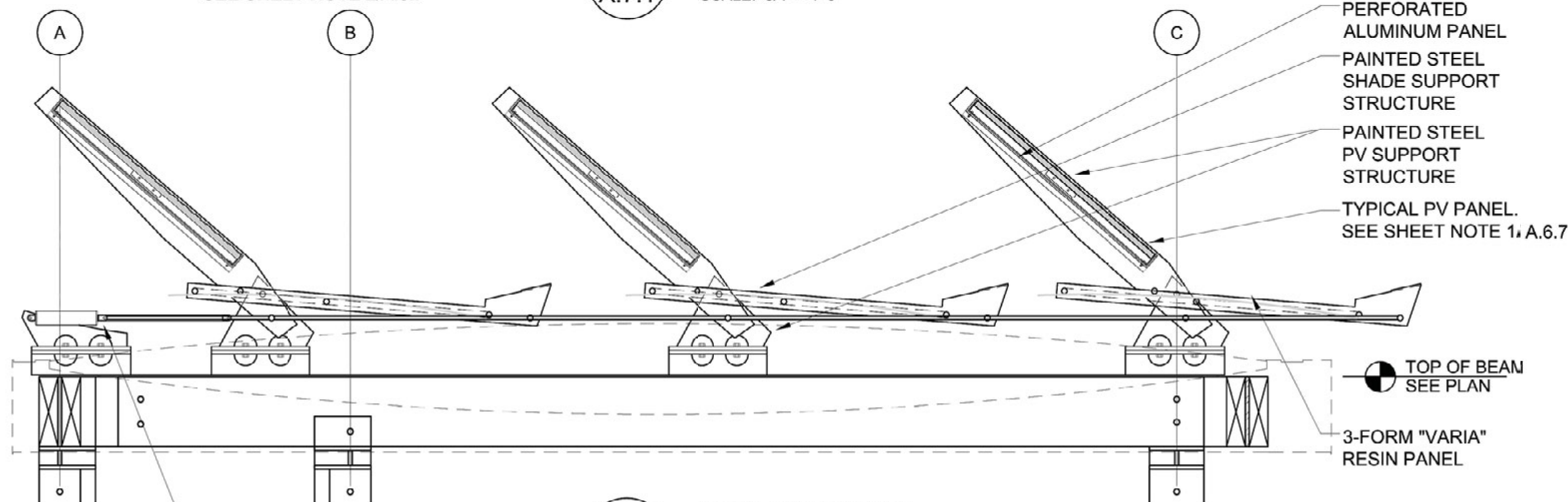
A.7.0

PHOTOVOLTAIC SUPPORTS





**2** TYP. SECTION AT FULLY RETRACTED SHADE CONDITION  
A.7.1 SCALE: 3/4" = 1'-0"



**1** TYP. SECTION AT FULLY EXTENDED SHADE CONDITION  
A.7.1 SCALE: 3/4" = 1'-0"

date	
description	
revision	

consultants:



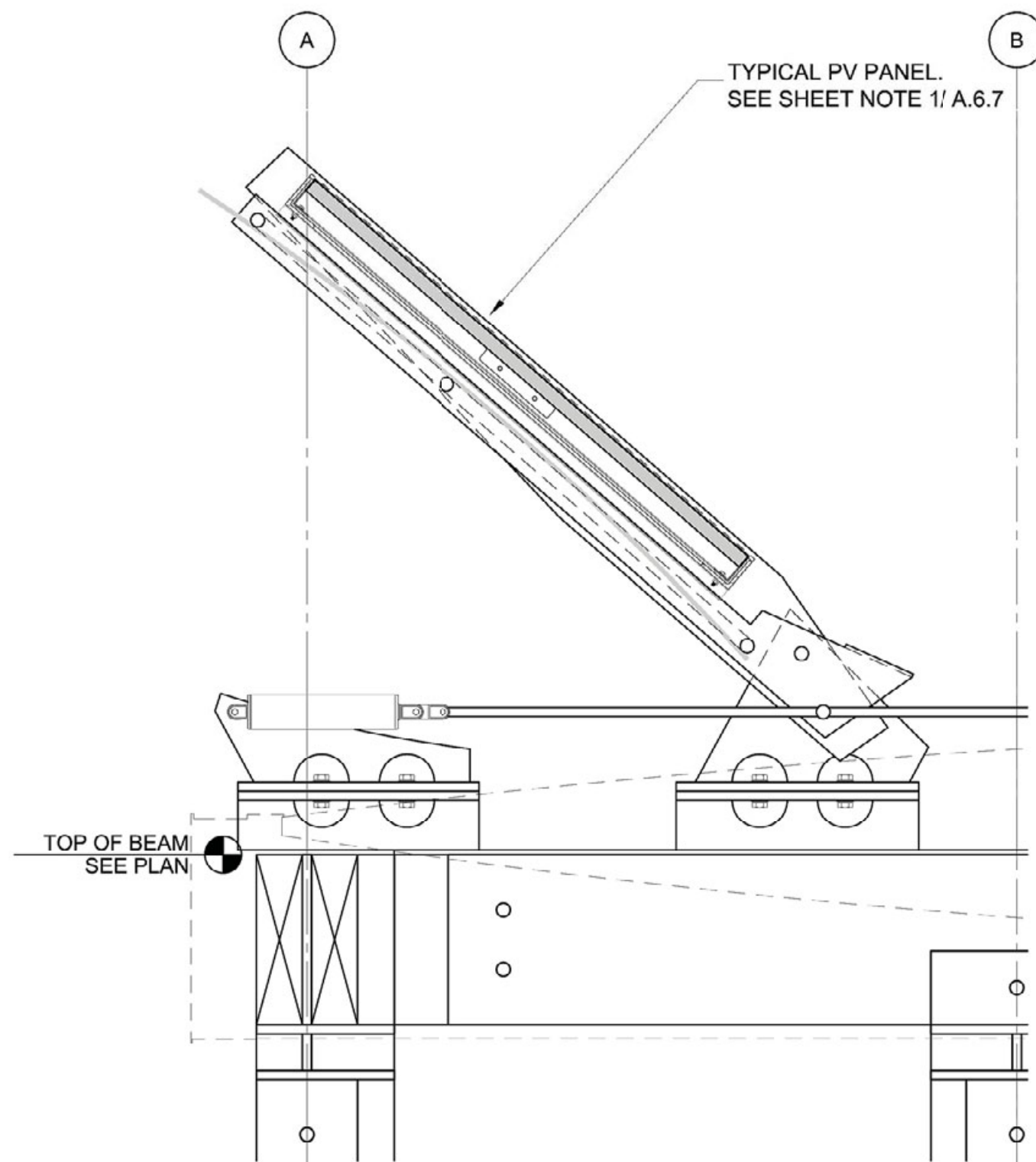
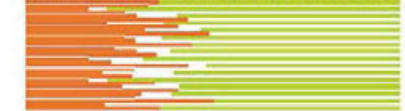

prepared by:  
**Jamie O'Kelley**  
date drawn:  
12.04.06  
03.03.07

scale: as noted

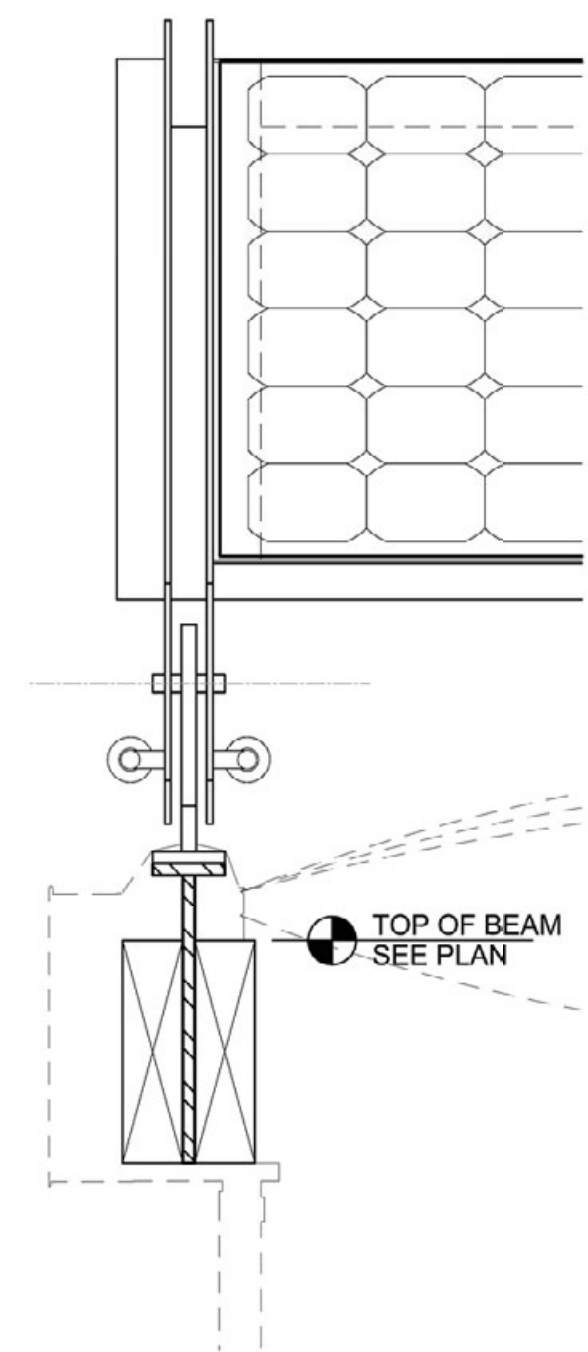
A.7.1

PHOTOVOLTAIC SUPPORTS

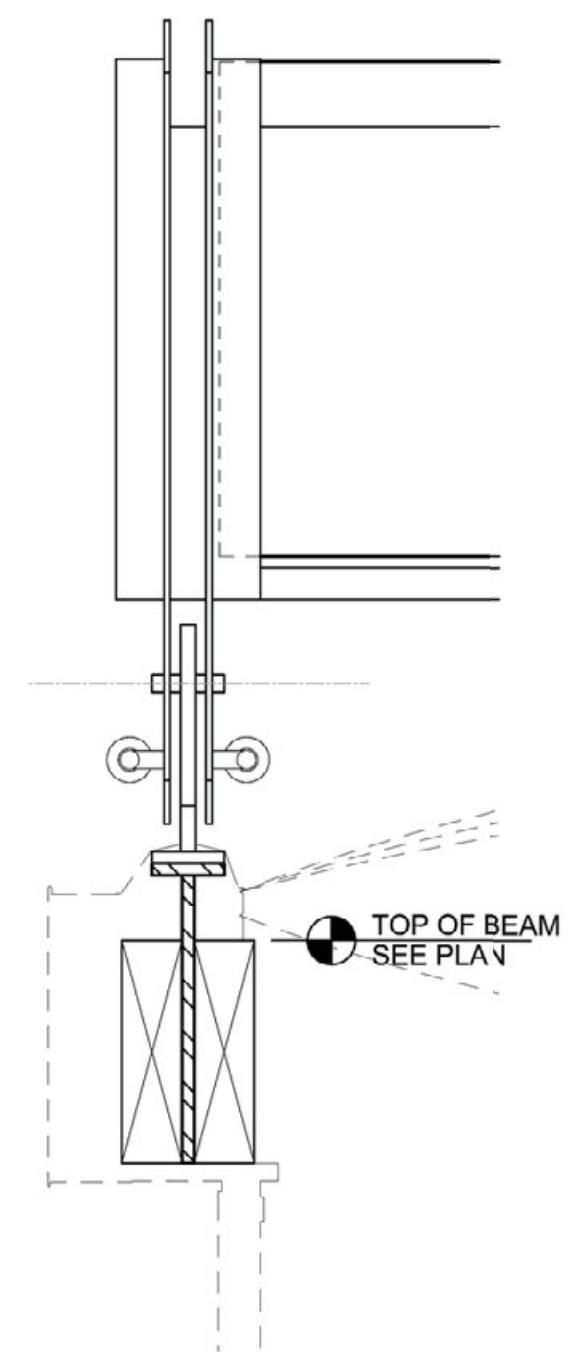




**3** SECTION  
A.7.2 SCALE: 1-1/2" = 1'-0"



**2** SECTION  
A.7.2 SCALE: 1-1/2" = 1'-0"



**1** SECTION  
A.7.2 SCALE: 1-1/2" = 1'-0"

date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**  
**03.03.07**

scale: **as noted**

**A.7.2**

PHOTOVOLTAIC SUPPORTS



date	
description	
revision	

consultants:

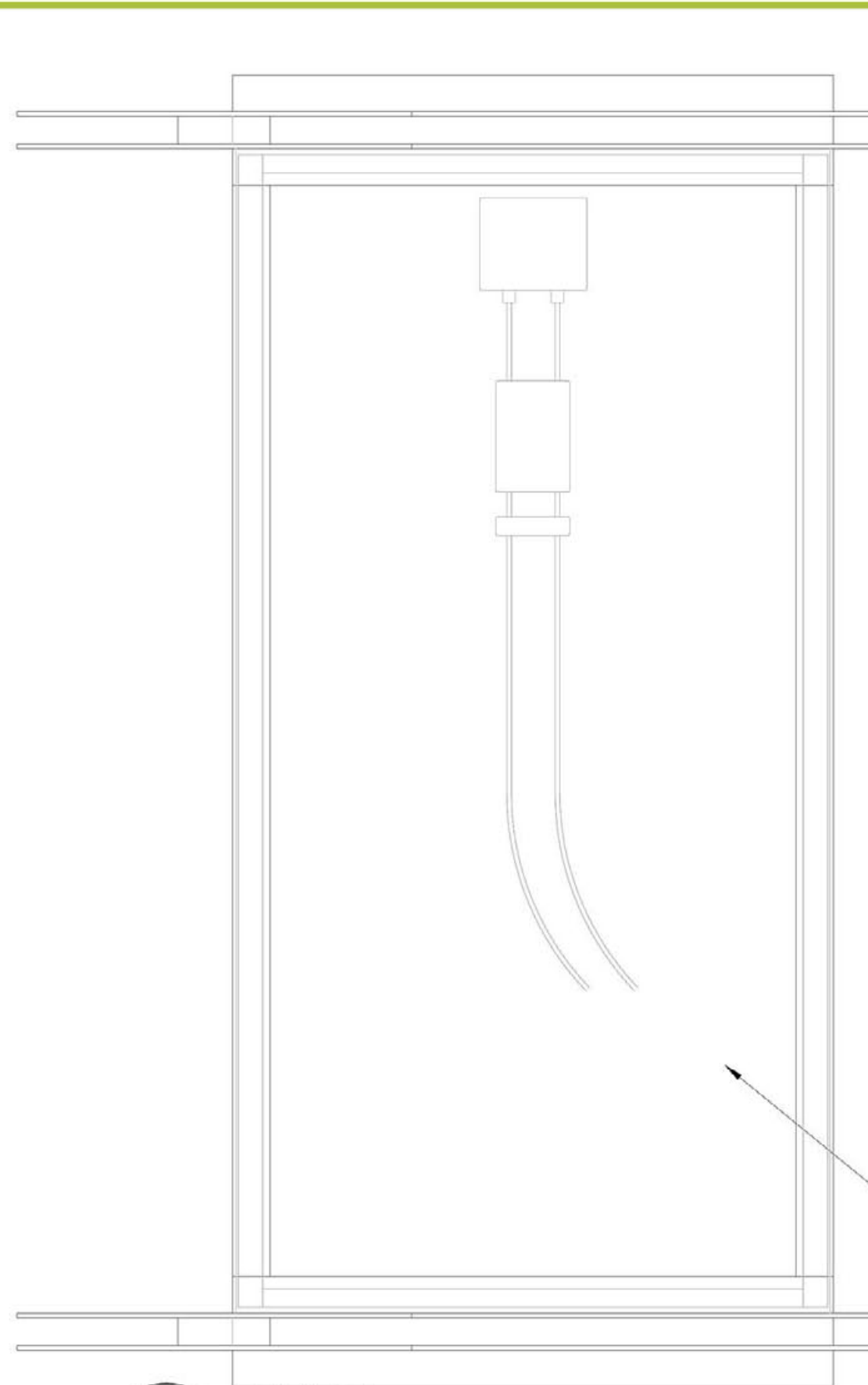


prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**

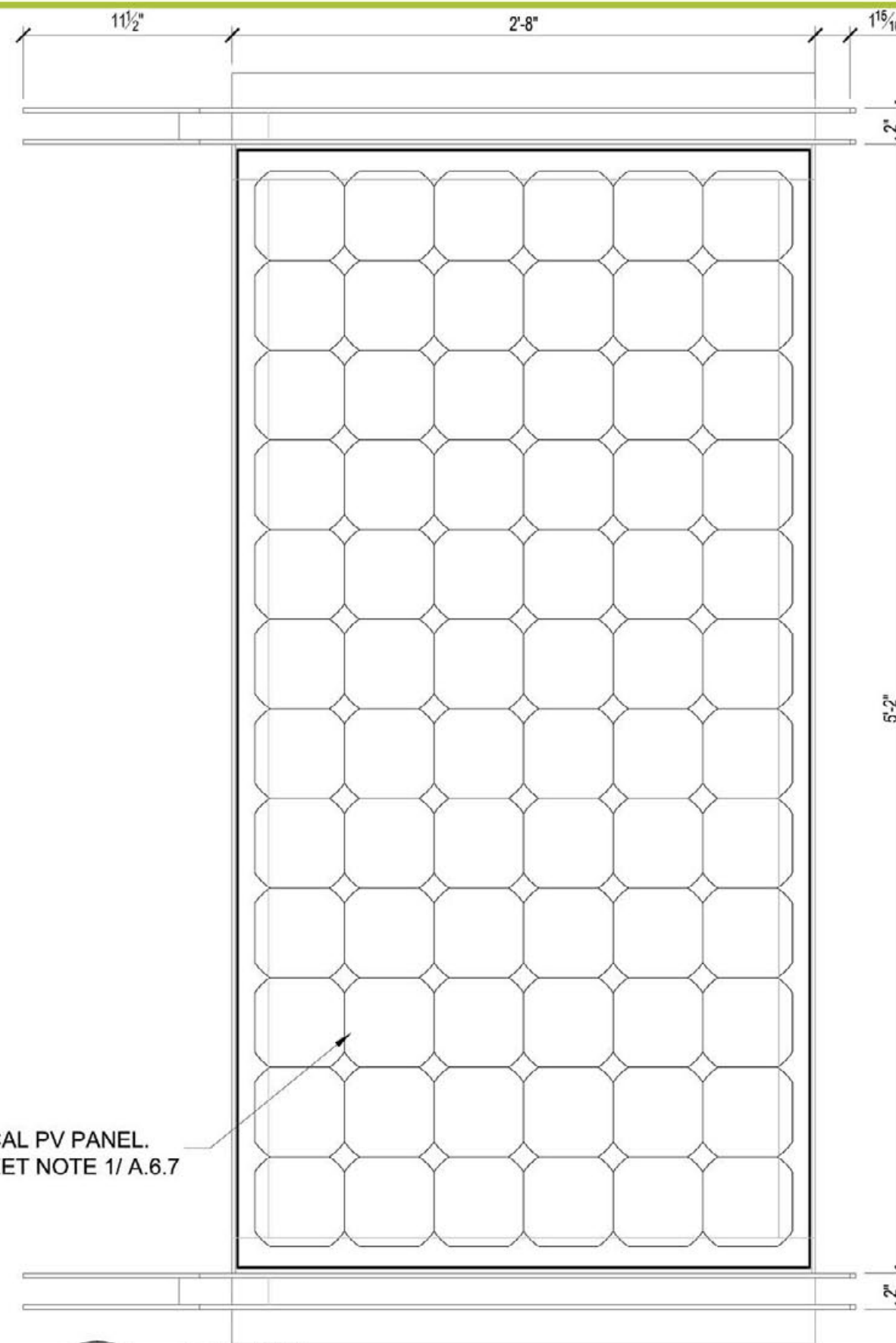
scale: **as noted**

**A.7.3**

PHOTOVOLTAIC SUPPORTS

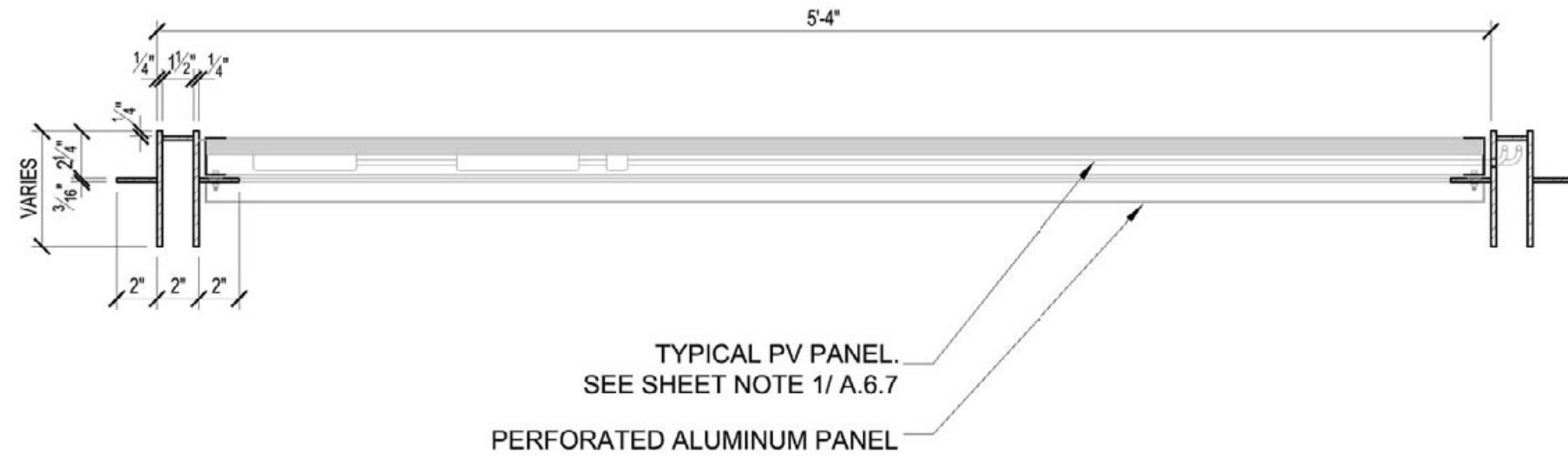


**2** **DETAIL** AT TYP. PV MODULE REAR  
**A.7.3** SCALE: 1-1/2" = 1'-0"

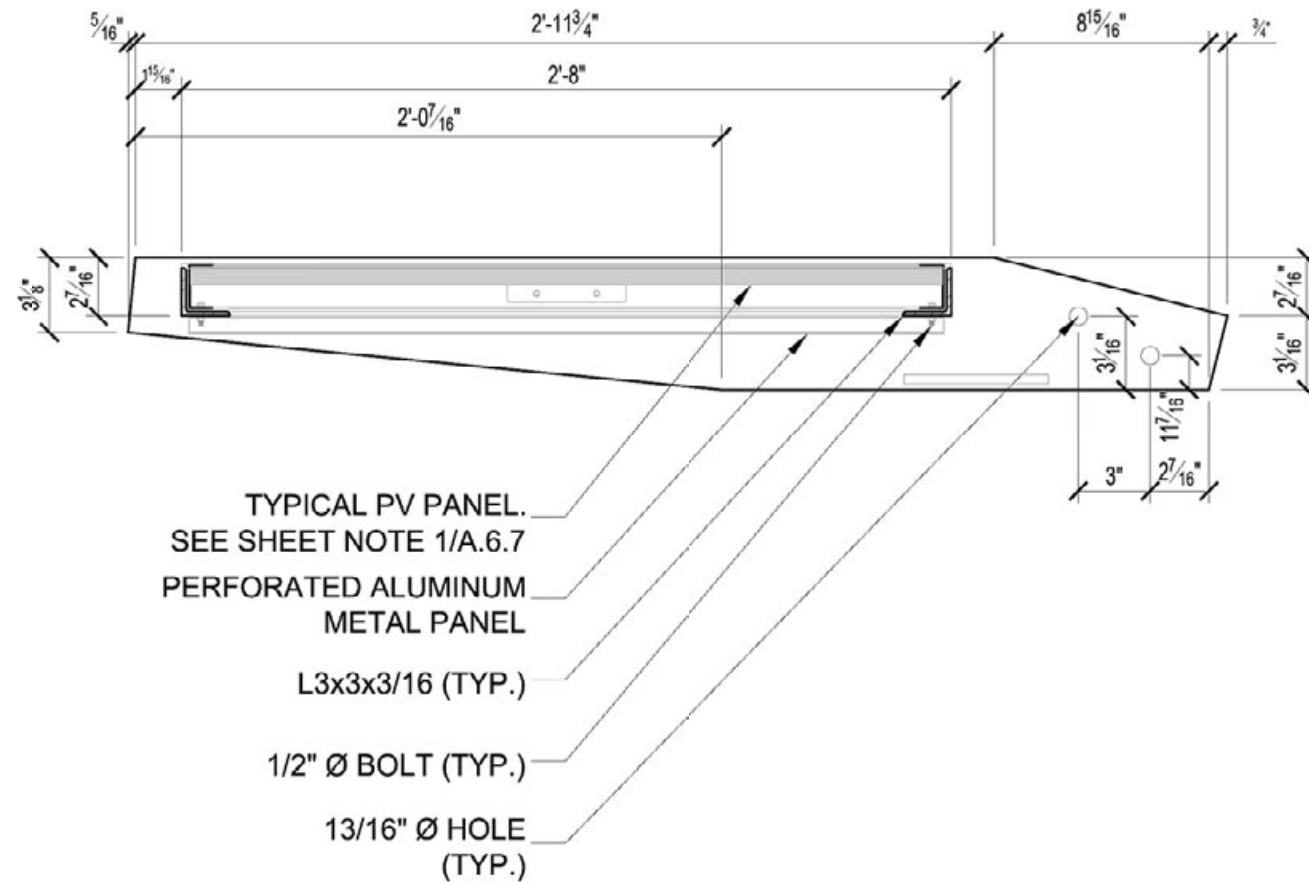


**1** **DETAIL** AT TYP. PV MODULE FRONT  
**A.7.3** SCALE: 1-1/2" = 1'-0"

TYPICAL PV PANEL.  
SEE SHEET NOTE 1/ A.6.7



2 DETAIL TYP. PV MODULE  
A.7.5 SCALE: 1-1/2" = 1'-0"



1 DETAIL TYP. PV MODULE  
A.7.4 SCALE: 1-1/2" = 1'-0"

date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

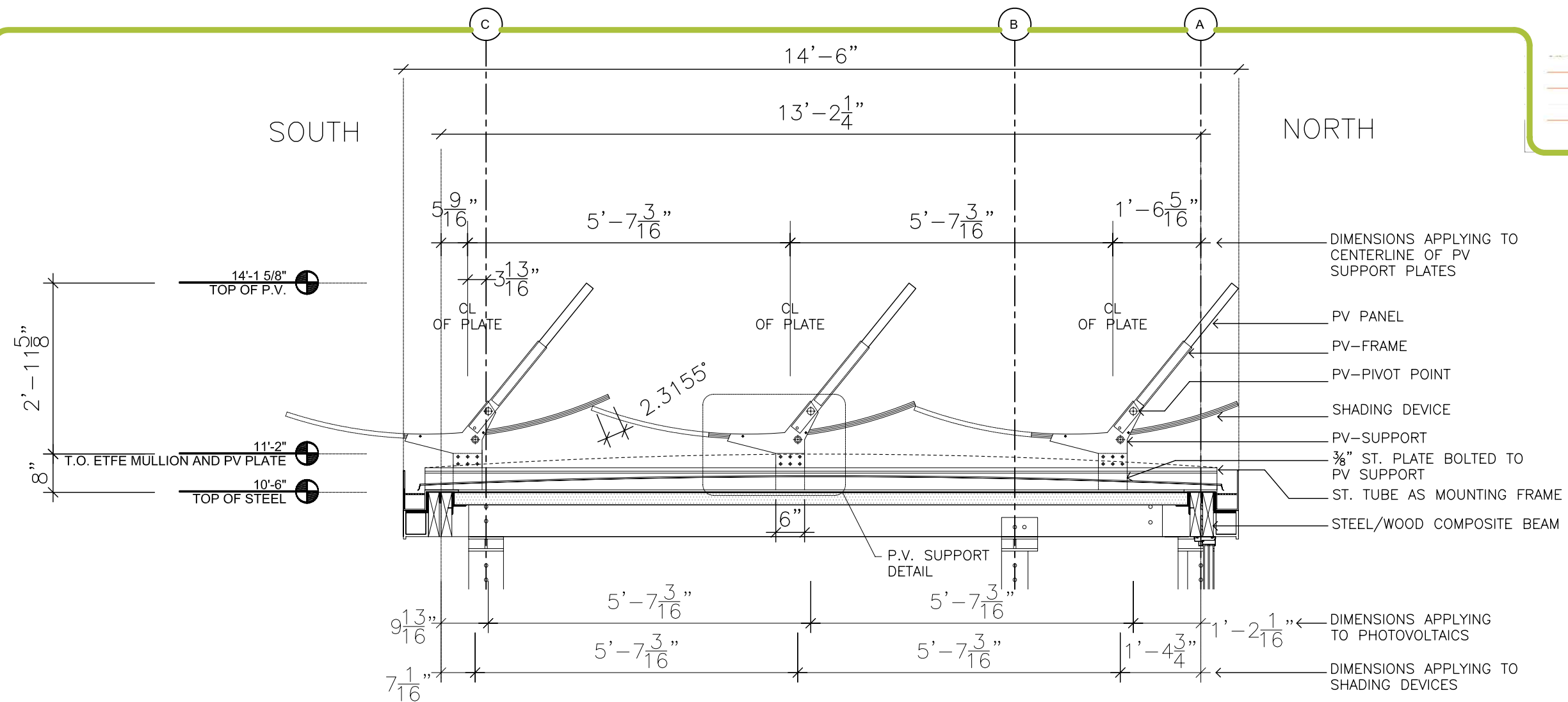


prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**

scale: **as noted**

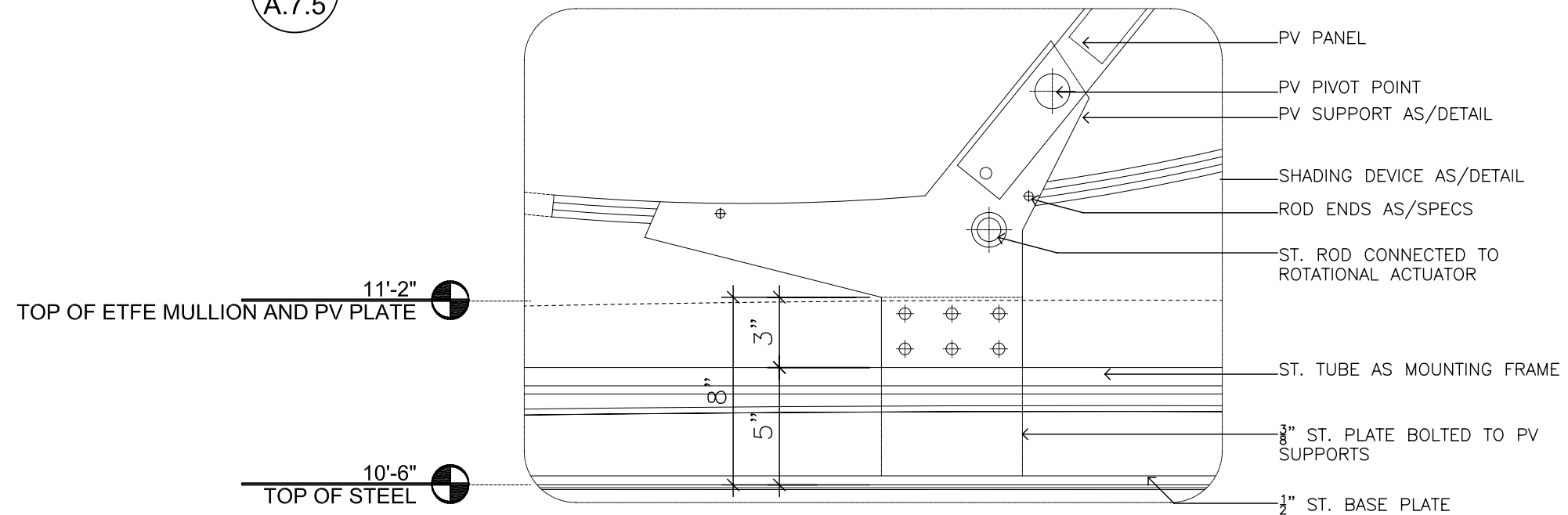
**A.7.4**

PHOTOVOLTAIC SUPPORTS



2 PHOTOVOLTAIC SUPPORTS

A.7.5



1 PHOTOVOLTAIC SUPPORTS

A.7.5

date

description

revision

consultants:

prepared by:

V. Deo  
A. Jakubiec

date drawn:

06.02.07  
06.06.07

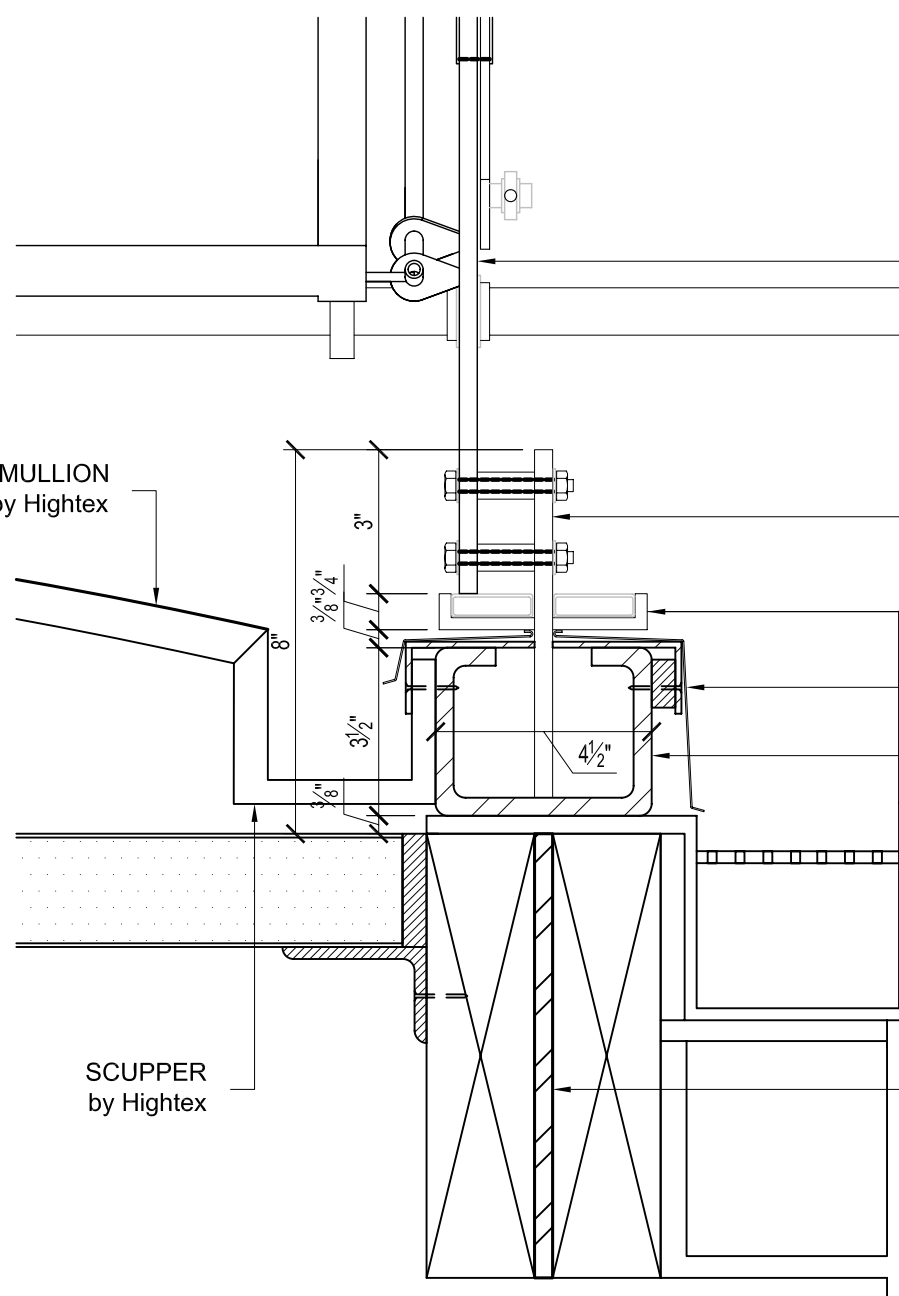
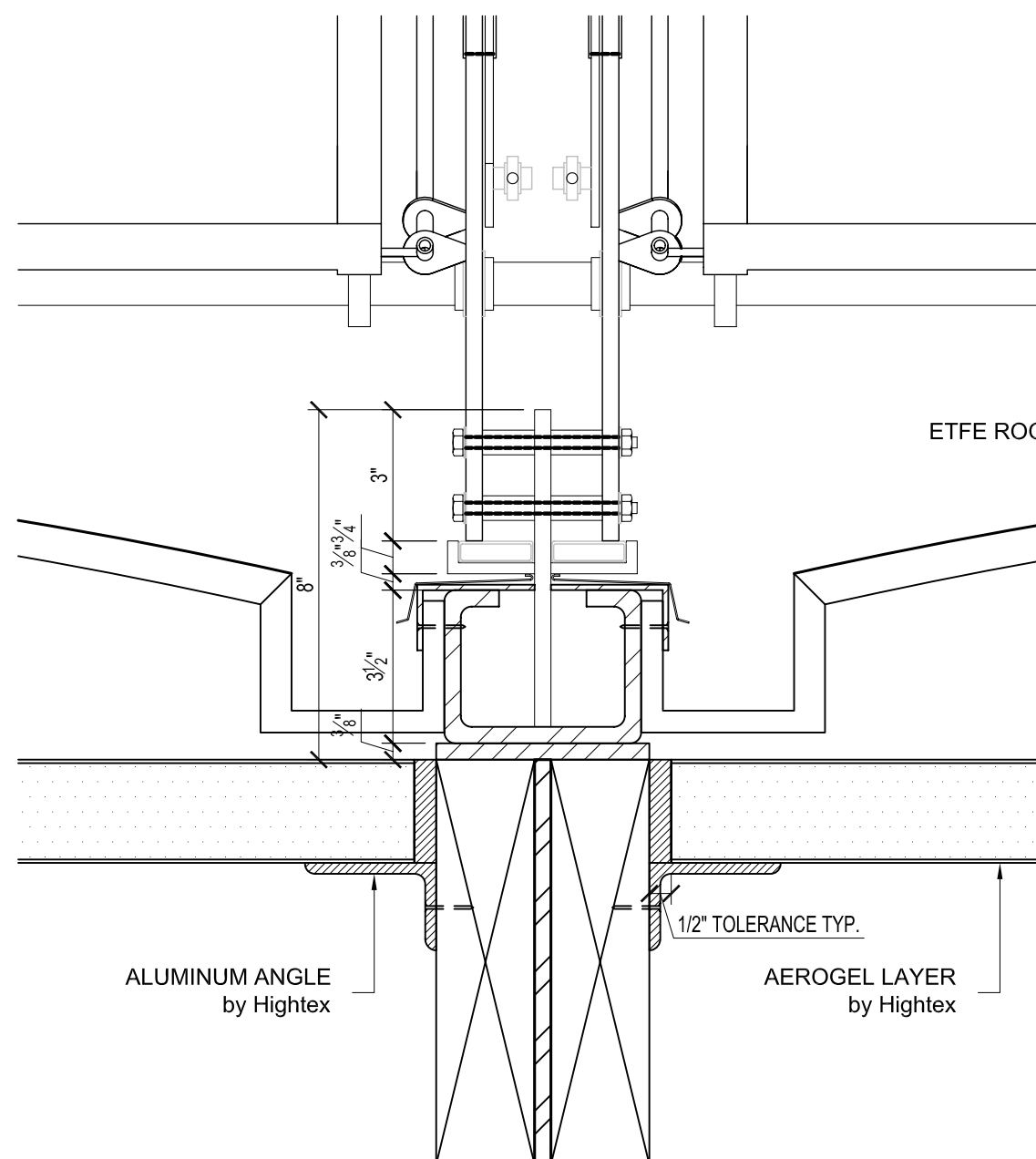


scale: 1" : 2' 2"

A.7.5

P.V. MOTION DETAILS





PV SUPPORT ELEMENT  
by GT

PV SUPPORT PLATE  
by GT

INSTALLATION CHANNEL  
by GT

FLASHING  
by GT

CHANNEL AND CAP  
by Hightex

GUTTER AND ELECTRICAL CHASE  
by GT

ROOF BEAM  
by GT

ETFE ROOF MULLION  
by Hightex

SCUPPER  
by Hightex

ALUMINUM ANGLE  
by Hightex

AEROGEL LAYER  
by Hightex

1/2" TOLERANCE TYP.

1

A.7.6

SECTION AT TYP. PV PLATE SUPPORTS

2

A.7.6

SECTION AT END PV PLATE SUPPORTS

date

description

revision

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

prepared by:

A. Jakubiec

V. Deo

date drawn:

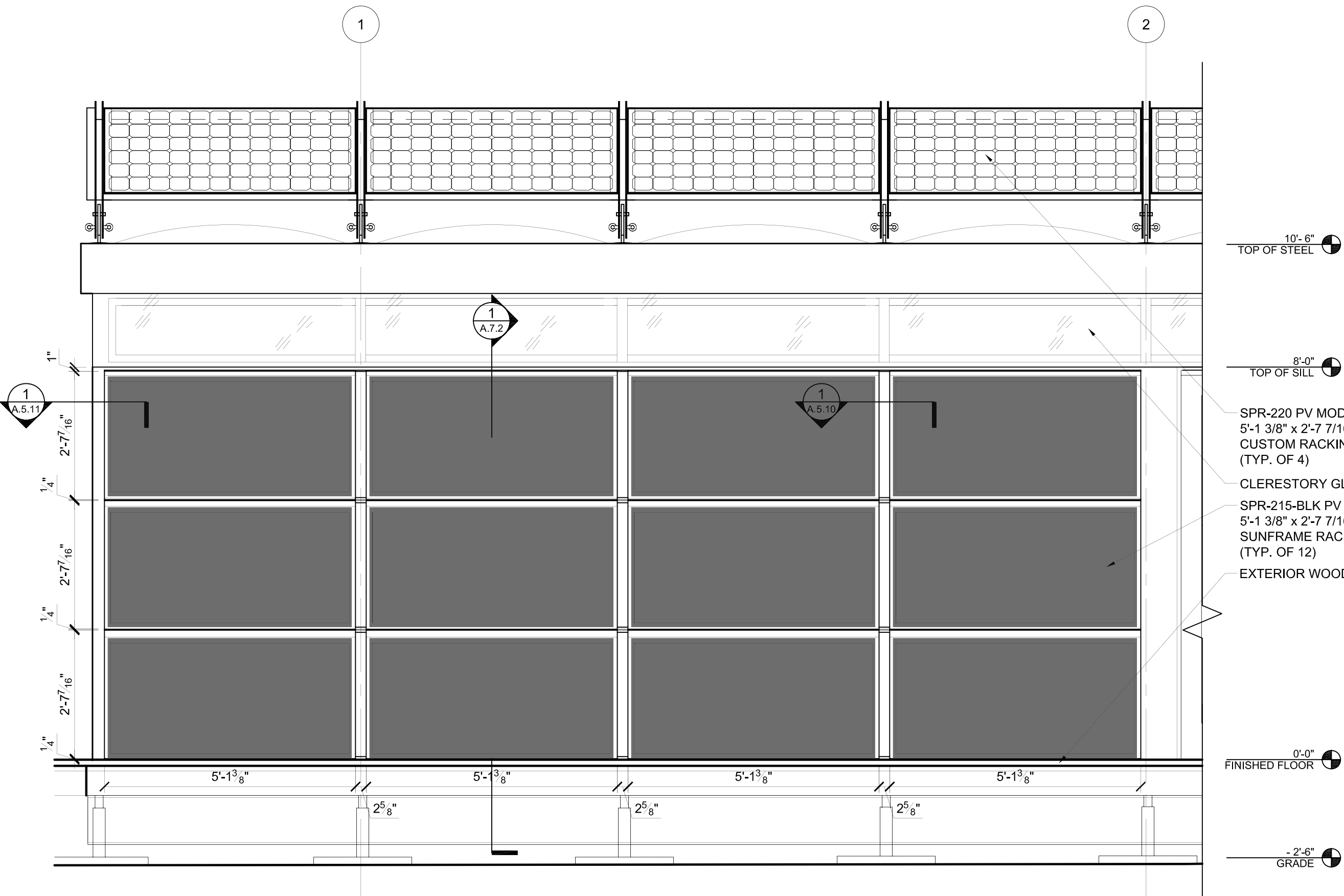
06.06.07



scale: 3" = 1'

PV SUPPORT DETAILS

A.7.6

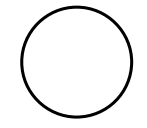


date	
description	
revision	

consultants:



prepared by:  
**Tony Piede**  
**Joe Jamgochian**  
date drawn:  
**03.06.07**  
**12.06.06**

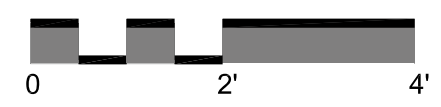


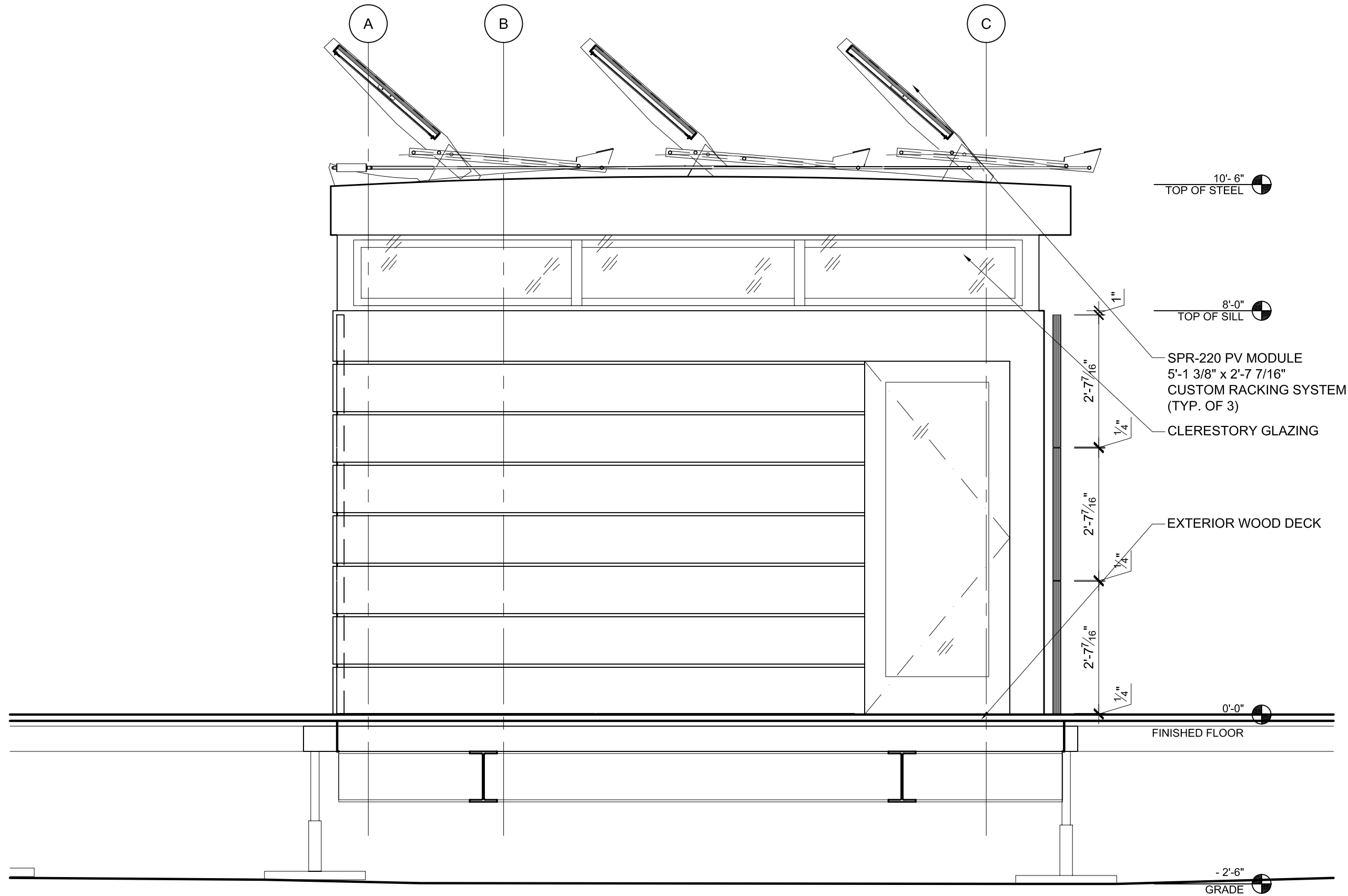
scale: **1/2" : 1' 0"**

**A.8.0**

**SOUTH ELEVATION - PV PANEL**

**1**  
**A.8.0**  
**SOUTH ELEVATION - PV PANEL**





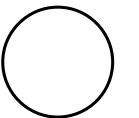
1 WEST ELEVATION  
A.8.1

date	
description	
revision	

consultants:



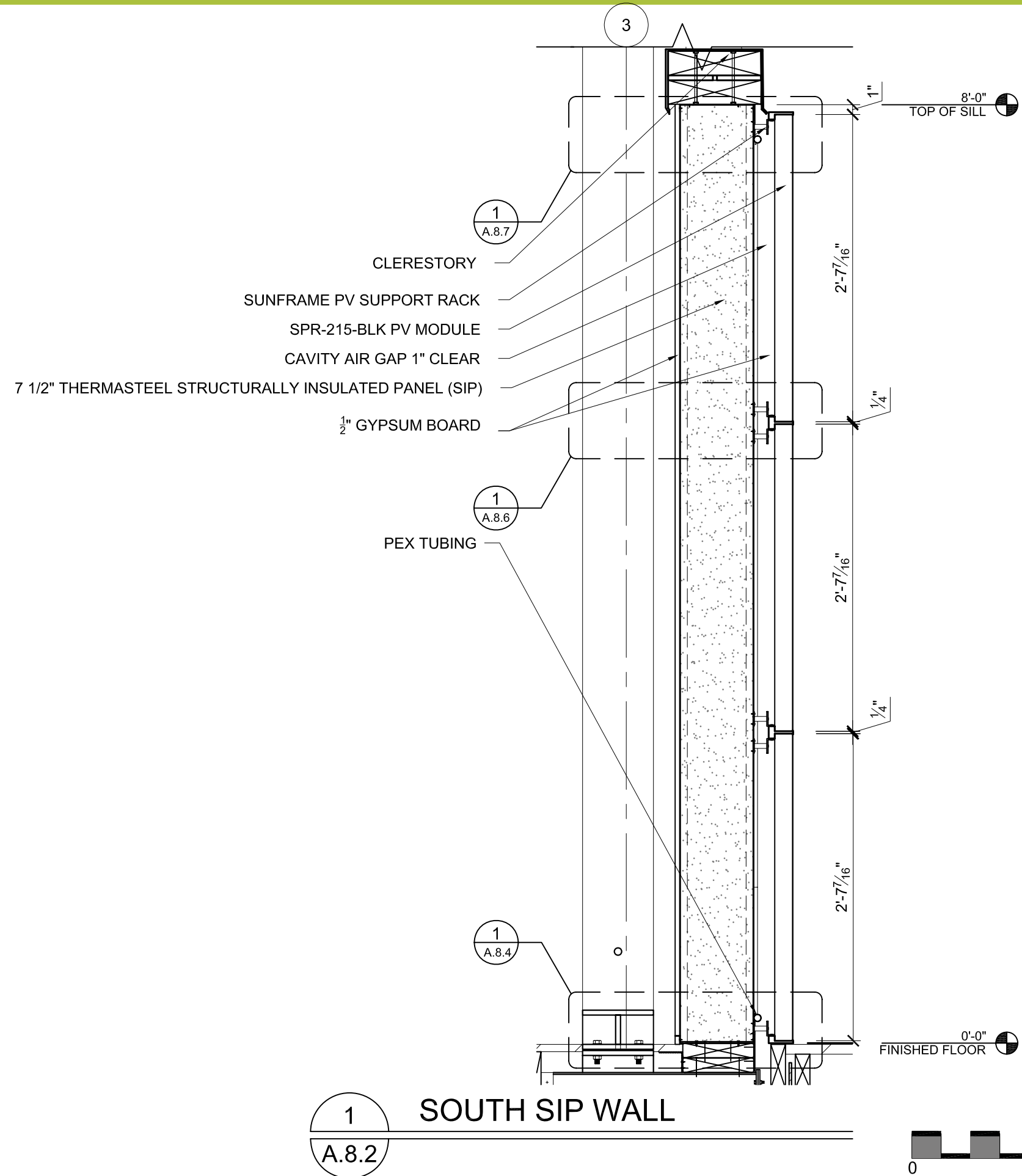
prepared by:  
**Tony Piede**  
**Joe Jamgochian**  
date drawn:  
**03.06.07**  
**12.05.06**



scale: **1/2" : 1' 0"**

**A.8.1**

WEST ELEVATION



date

description

revision

consultants:

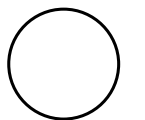


prepared by:

Tony Piede  
Joe Jamgochian

date drawn:

03.06.07  
12.05.06

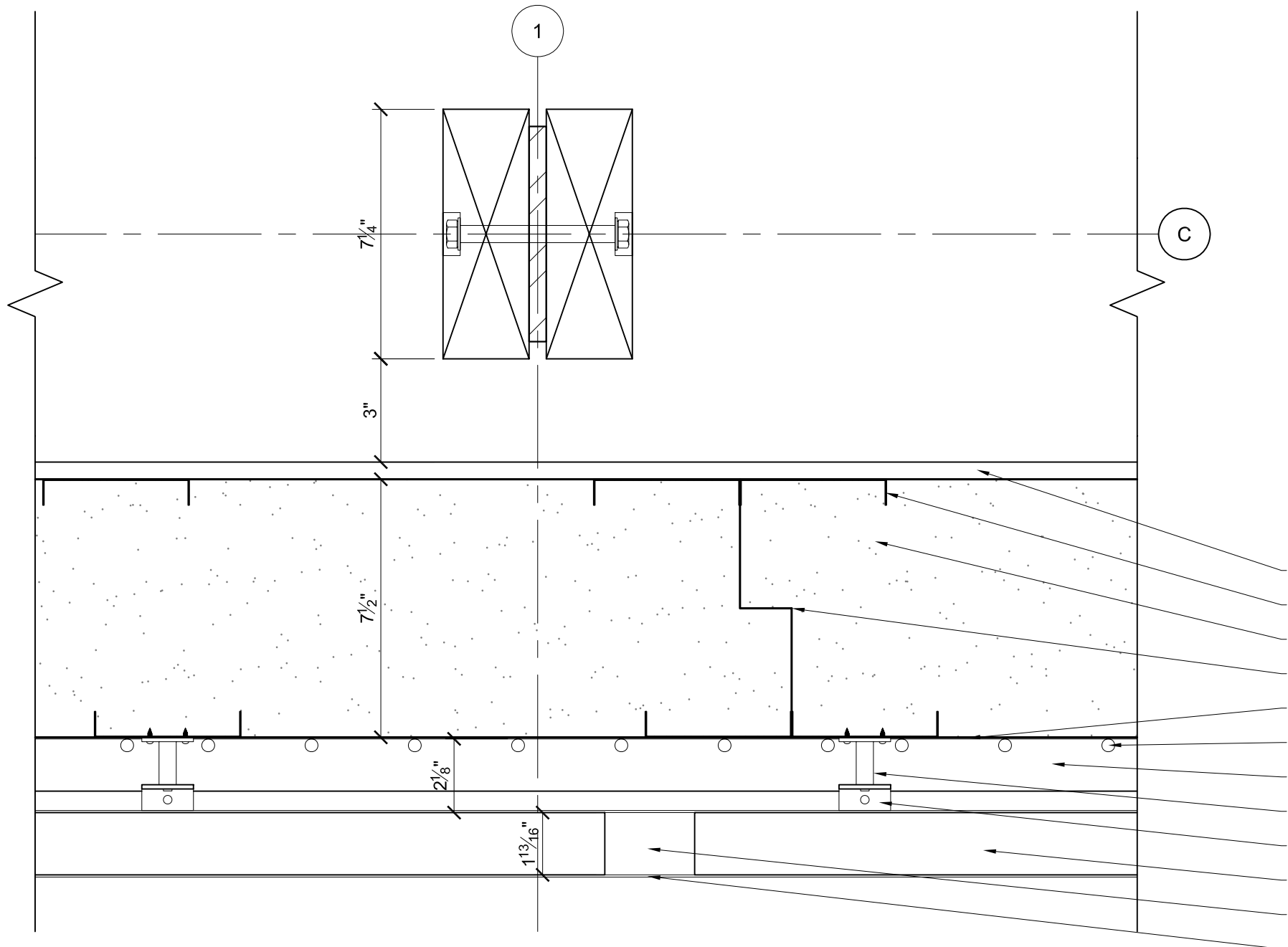


scale: 1" : 1' 0"

A.8.2

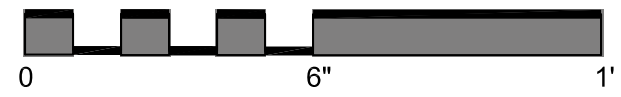
WALL SECTION - SOUTH SIP WALL





- 1/2" GYPSUM WALL BOARD
- 3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' STUD
- THERMASTEEL EXPANDED POLYSTYRENE INSULATION
- THERMASTEEL SHIPLAP JOINT
- .045" EPDM WATER BARRIER
- 3/8" PEX TUBING (SHW)
- CAVITY AIR GAP 1" CLEAR
- 1 1/2" ALUMINUM SUNFRAME STANDOFF
- 3/4" x 3/4" x 1 1/2" ALUMINUM SUNFRAME 'L' BRACKET
- SPR-215-BLK PV MODULE
- 1 3/4" ALUMINUM SUNFRAME HORIZONTAL SUPPORT RAIL
- SUNFRAME CAP STRIP

1 PV CONNECTION PLAN  
A.8.3



date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

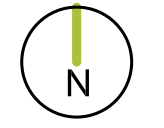
\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Tony Piede**  
**Joe Jamgochian**

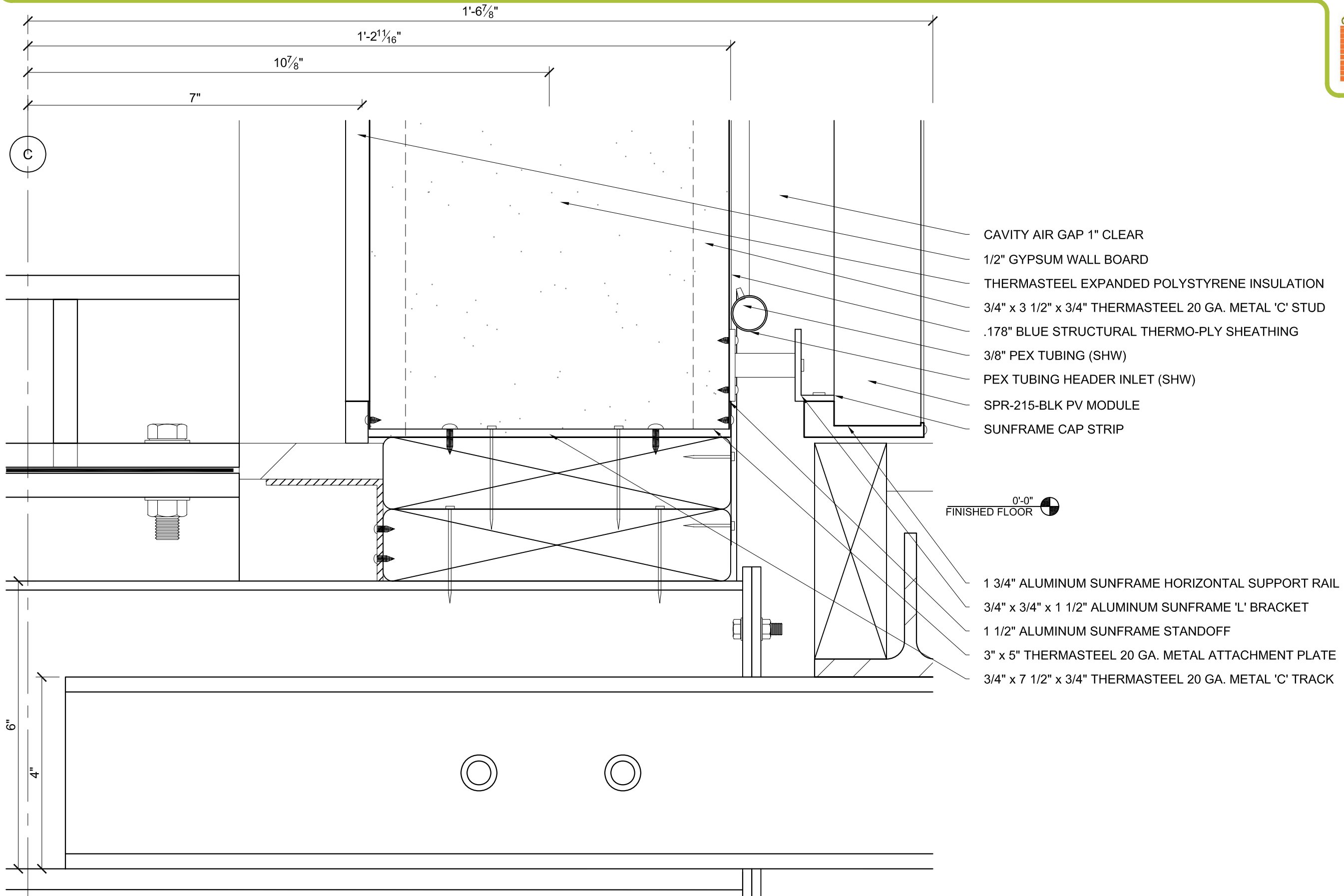
date drawn:  
**03.06.07**  
**12.05.06**



scale: **3" : 1' 0"**

**A.8.3**

SIP WALL DETAILS HORIZONTAL



date	description	revision

consultants:

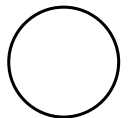


prepared by:

**Tony Piede**  
**Joe Jamgochian**

date drawn:

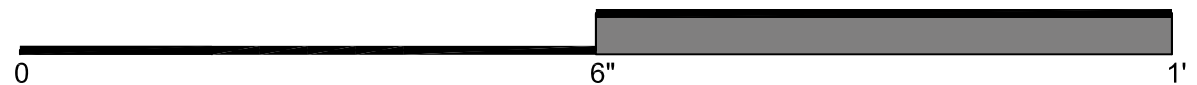
**03.06.07**  
**12.05.06**

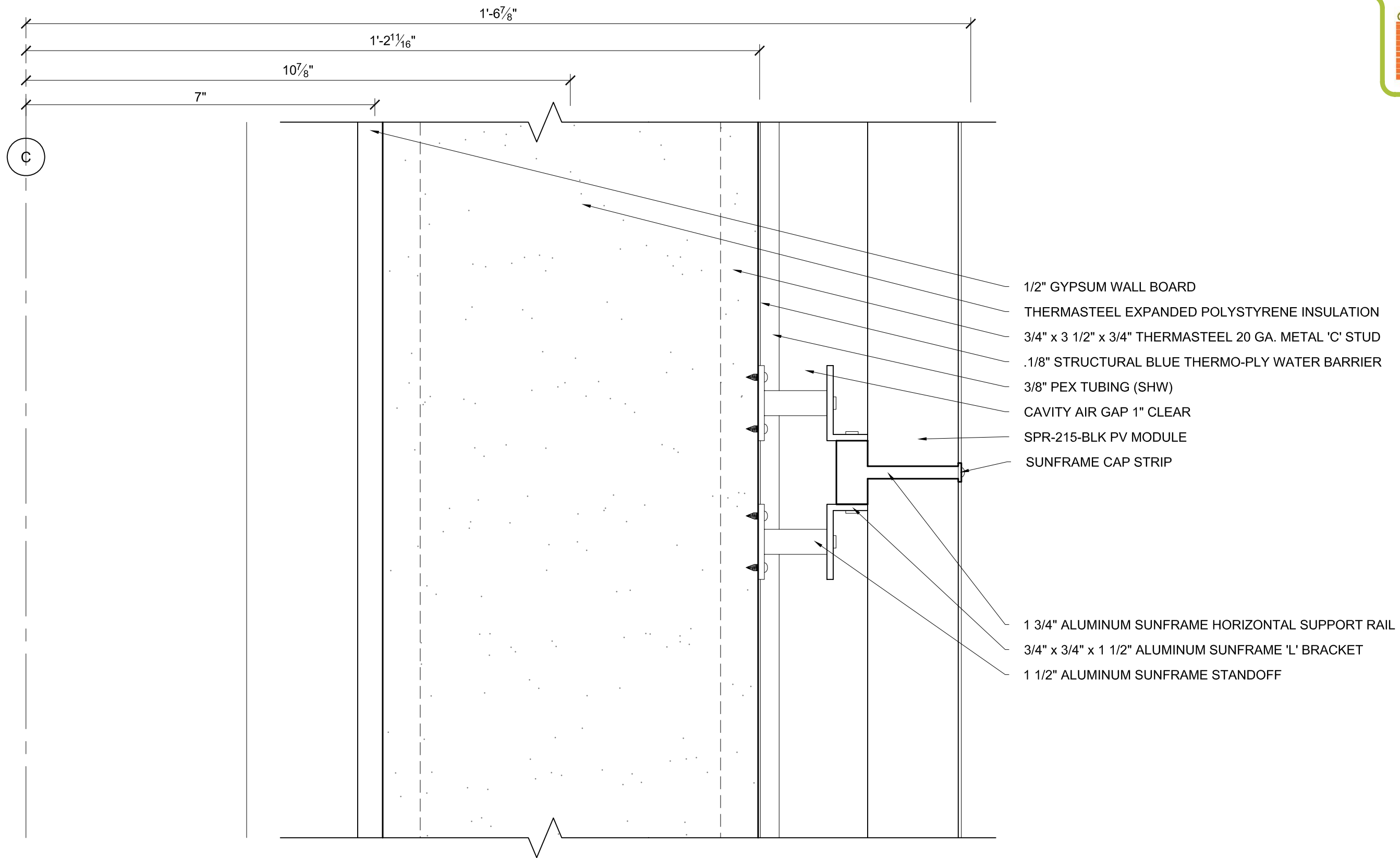


scale: **6" : 1' 0"**

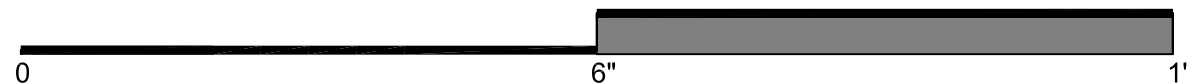
**A.8.4**

PV CONNECTION DETAILS VERTICAL





1 PV CONNECTION AT PANELS  
A.8.5



date	
description	
revision	

consultants:

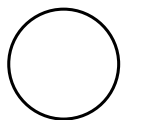


prepared by:

Tony Piede  
Joe Jamgochian

date drawn:

03.06.07  
12.05.06



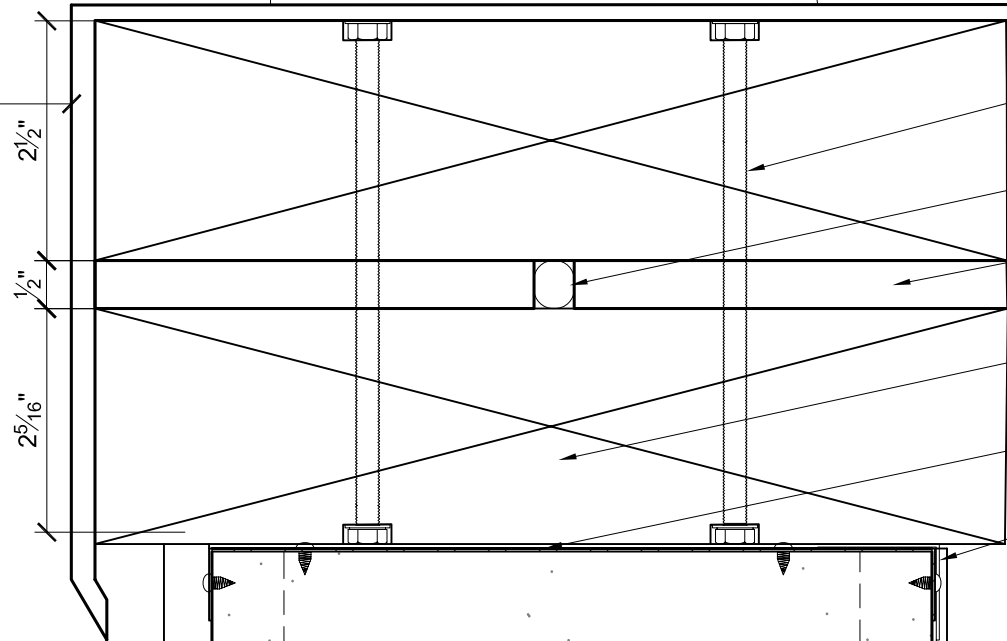
scale: 6" : 1' 0"

A.8.5

PV CONNECTION DETAILS

3

2<sup>13</sup>/<sub>16</sub>"



1/2" DIA. COUNTERSUNK HEX-HEAD  
THRU BOLT (A36) @ 2'-8" o.c. (MAX)

RUBBER GASKET

A36 STEEL FLITCH PLATE

FLITCH SILL PLATE (SEE  
COMPOSITE BEAM SCHEDULE  
S.2.1)

3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' TRACK

ALUMINUM FLASHING

TOP VETILATION GAP 1"

8'-0"  
TOP OF SILL

1 3/4" ALUMINUM SUNFRAME HORIZONTAL SUPPORT RAIL

3/4" x 3/4" x 1 1/2" ALUMINUM SUNFRAME 'L' BRACKET

1 1/2" ALUMINUM SUNFRAME STANDOFF

SPR-215-BLK PV MODULE

SUNFRAME CAP STRIP

PEX TUBING HEADER EXHAUST (SHW)

CAVITY AIR GAP

3/8" PEX TUBING (SHW)

1/8" STRUCTURAL BLUE THERMO-PLY SHEATHING

3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' STUD

1/2" GYPSUM WALL BOARD

5/8"

1

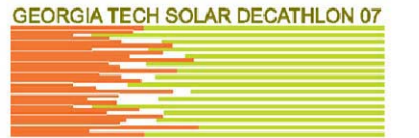
PV CONNECTION AT SILL

A.8.6

0

6"

1'



date

description

revision

consultants:



prepared by:

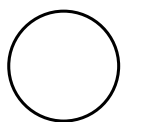
Tony Piede

Joe Jamgochian

date drawn:

03.06.07

12.05.06

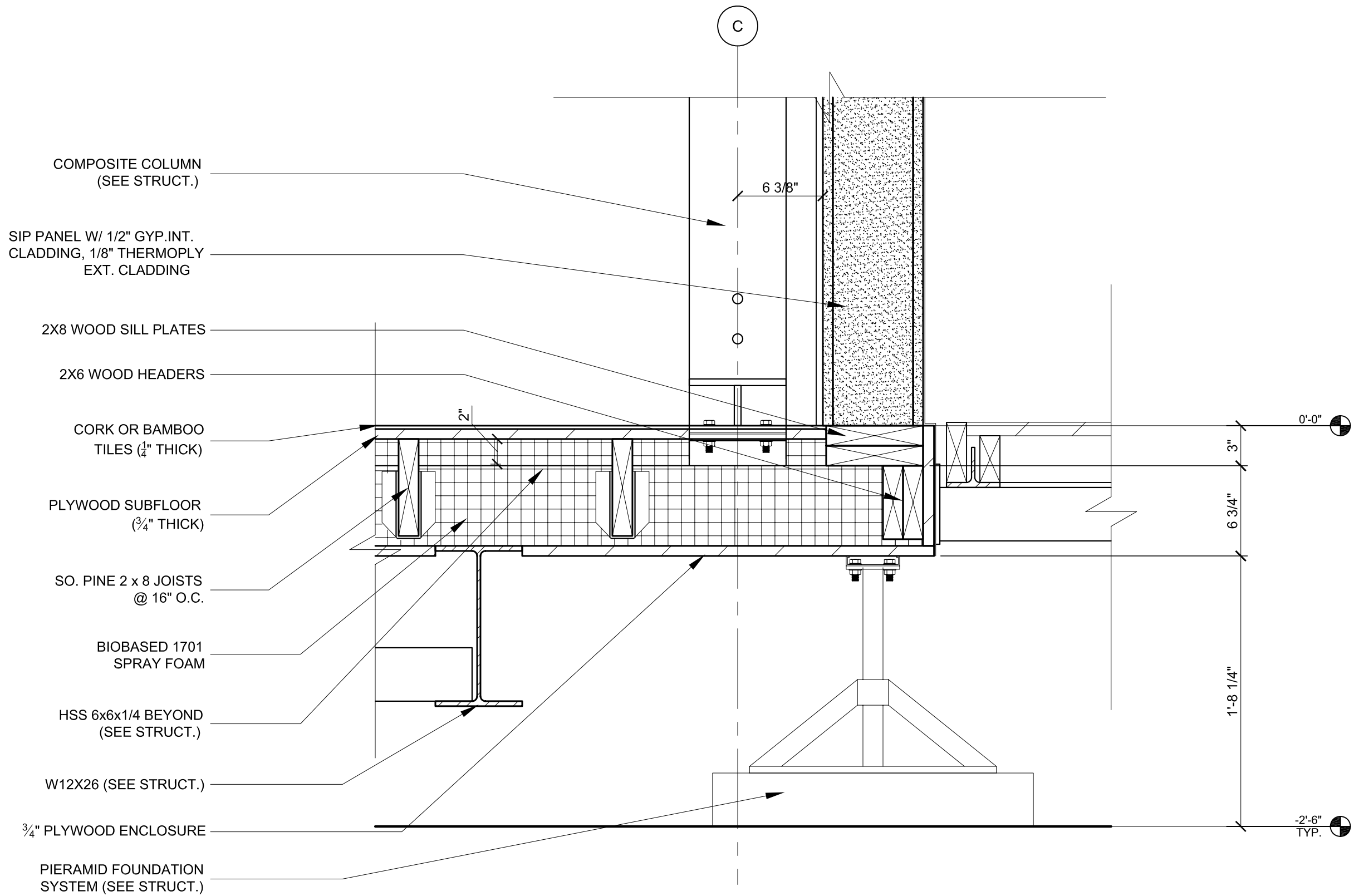
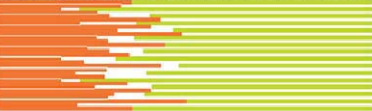


scale: 6" : 1' 0"

A.8.6

PV CONNECTION DETAILS





1  
A.9.0

## FLOOR CONSTRUCTION @ SIP WALL SOUTH FACE



date

description

revision

consultants:



prepared by:

Jodi Bell-Quinn  
C.VAN KLEY

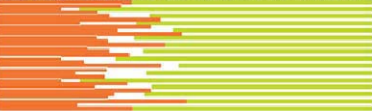
date drawn:

12.04.06  
3.06.07

scale: 1-1/2" : 1' 0"

A.9.0

FLOOR CONSTRUCTION DETAILS (SOUTH WALL)



date

description

revision

consultants:



prepared by:

Jodi Bell-Quinn  
C.VAN KLEY

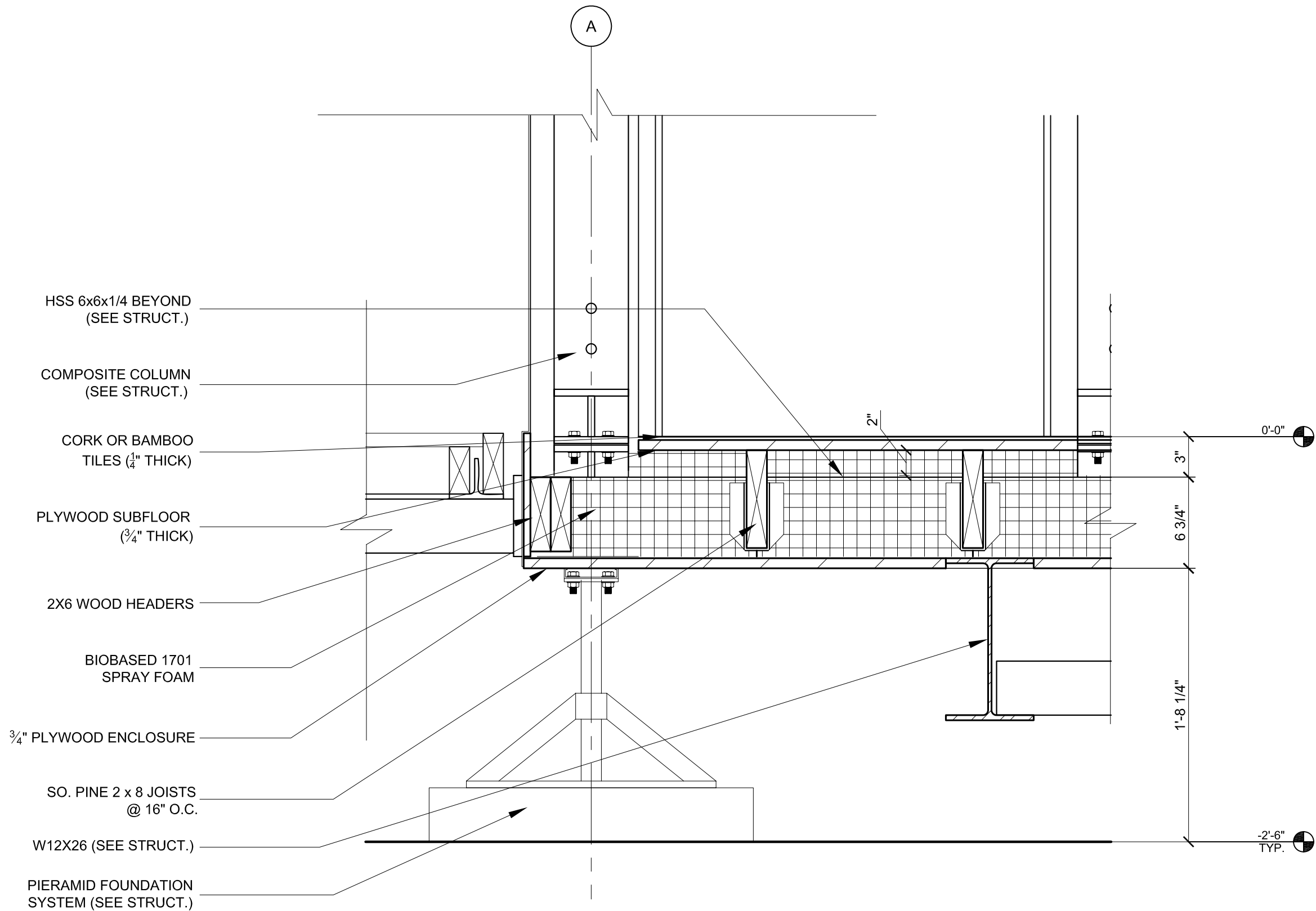
date drawn:

12.04.06  
3.06.07

scale: 1-1/2" : 1' 0"

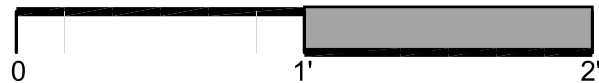
A.9.1

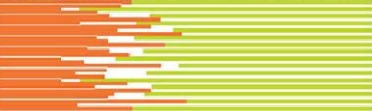
FLOOR CONSTRUCTION DETAILS (NORTH WALL)



1  
A.9.1

FLOOR CONSTRUCTION @  
SIP WALL NORTH FACE





date

description

revision

consultants:



prepared by:

C.VAN KLEY

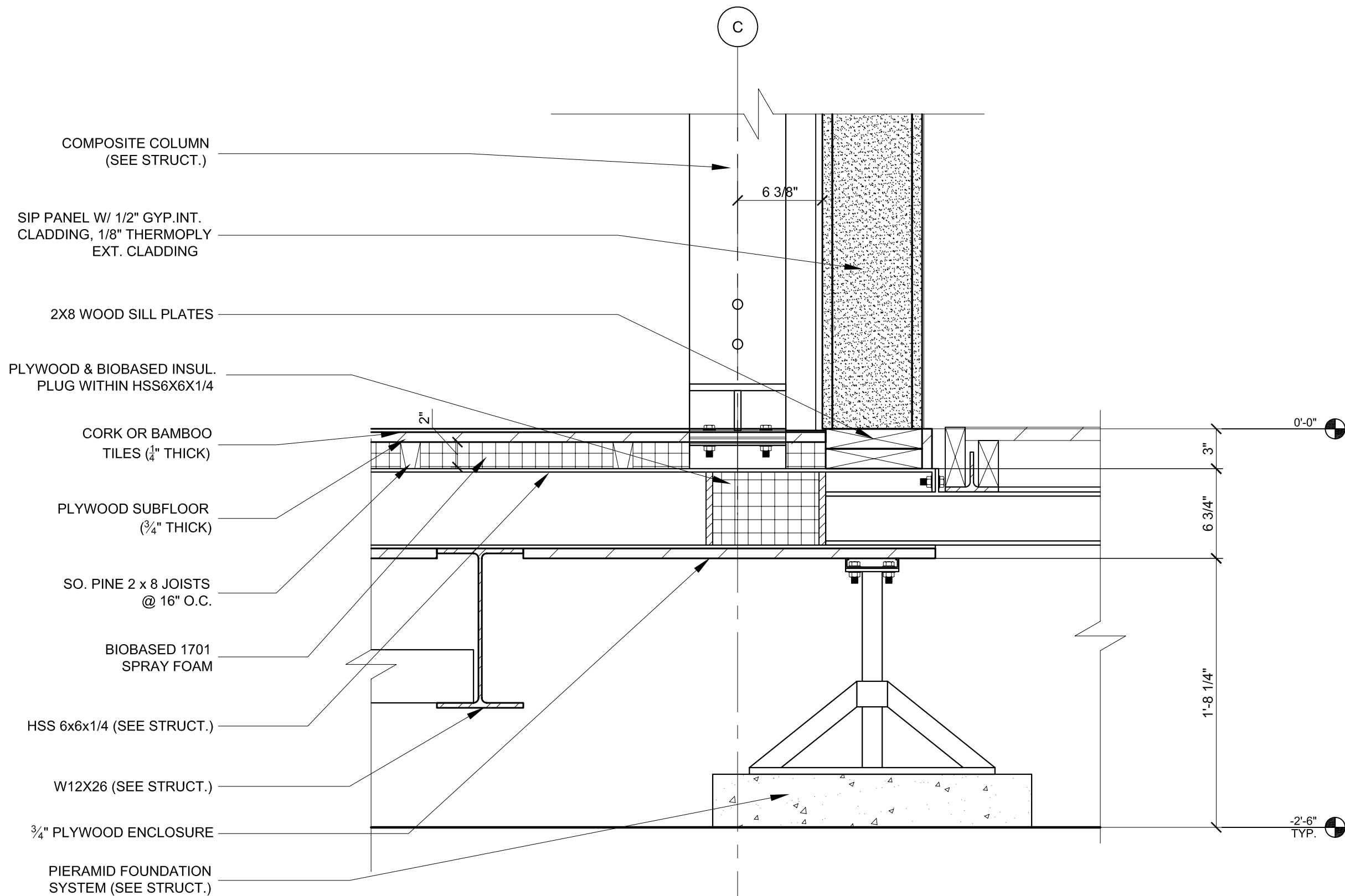
date drawn:

3.06.07

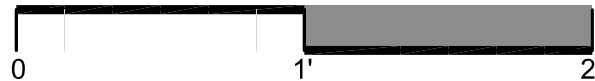
scale: 1-1/2" : 1' 0"

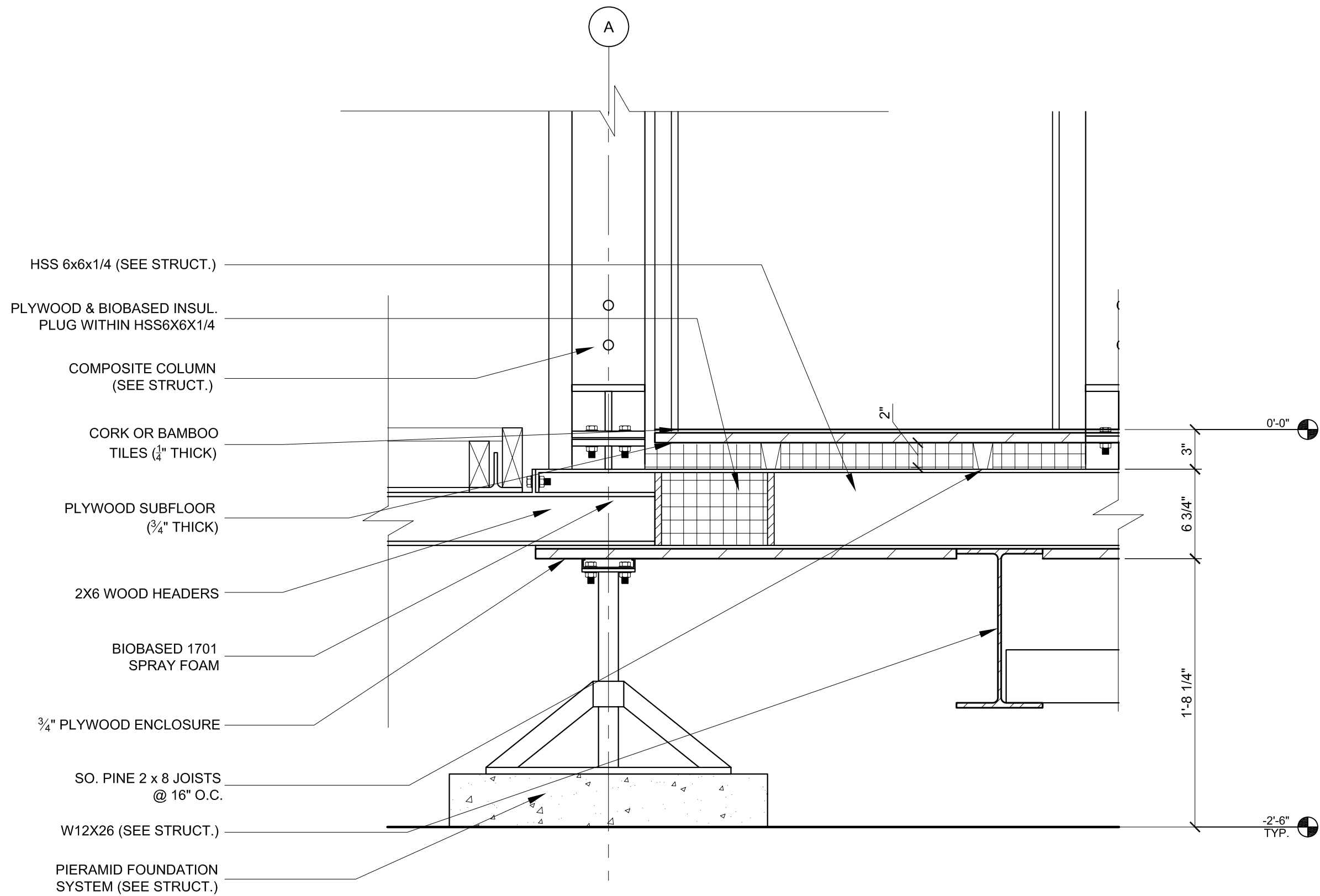
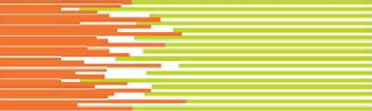
A.9.2

FLOOR CONSTRUCTION DETAILS (SOUTH WALL)



1 FLOOR CONSTRUCTION @  
A.9.2 SIP WALL SOUTH FACE





1  
A.9.3

## FLOOR CONSTRUCTION @ SIP WALL NORTH FACE



date

description

revision

consultants:



prepared by:

C.VAN KLEY

date drawn:

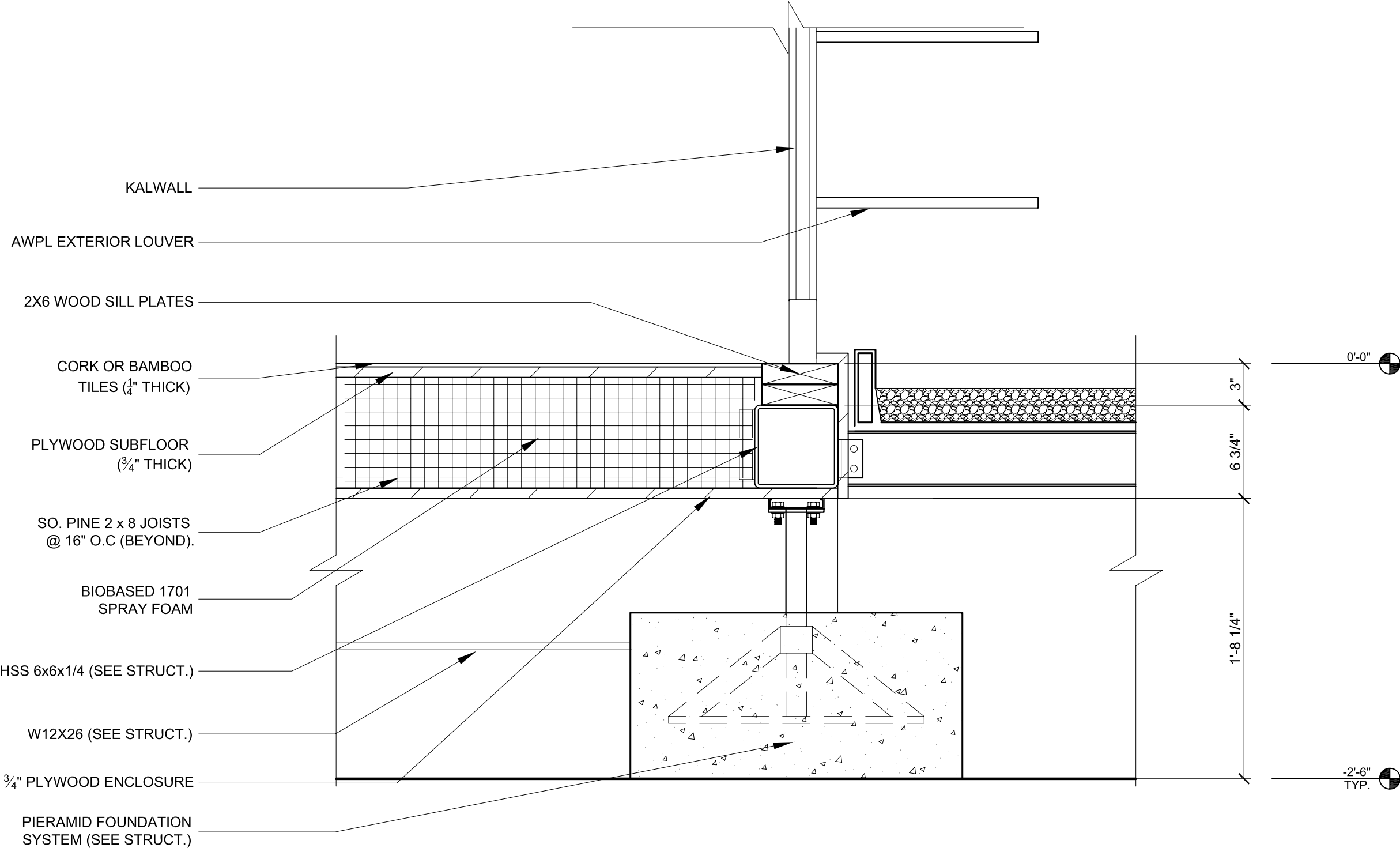
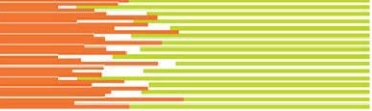
3.06.07

scale: 1-1/2" : 1' 0"

A.9.3

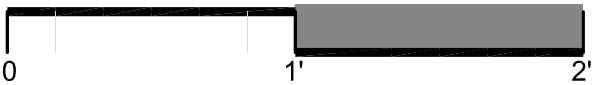
FLOOR CONSTRUCTION DETAILS (NORTH WALL)





1  
A.9.4

FLOOR CONSTRUCTION @  
KALWALL EAST FACE



date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

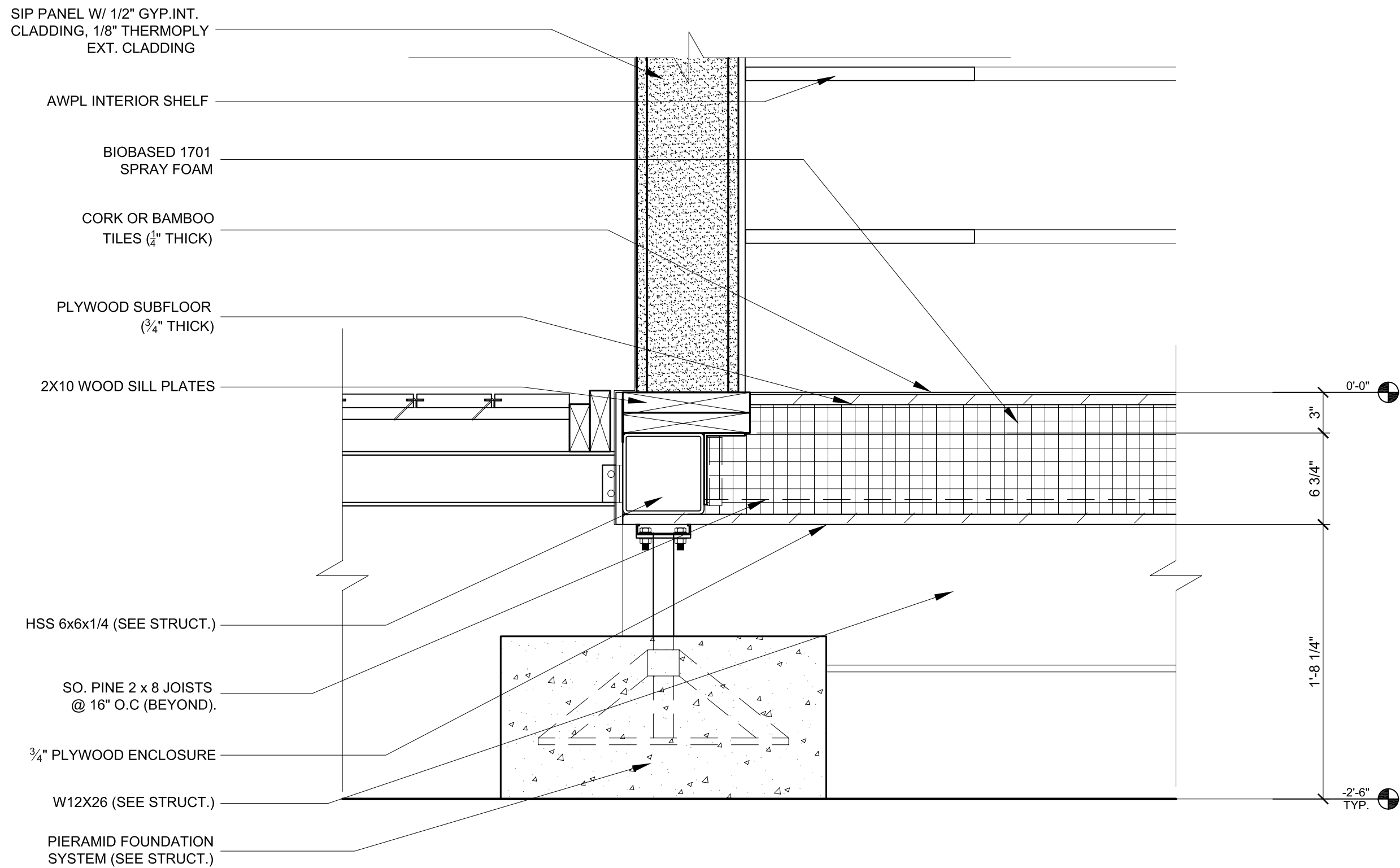
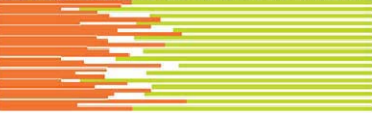


prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.06.07**

scale: 1-1/2" : 1' 0"

A.9.4

FLOOR CONSTRUCTION DETAILS (EAST WALL)



2 FLOOR CONSTRUCTION @  
A.9.2 SIP WALL WEST FACE



date	
revision	
description	

consultants:



prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.06.07**

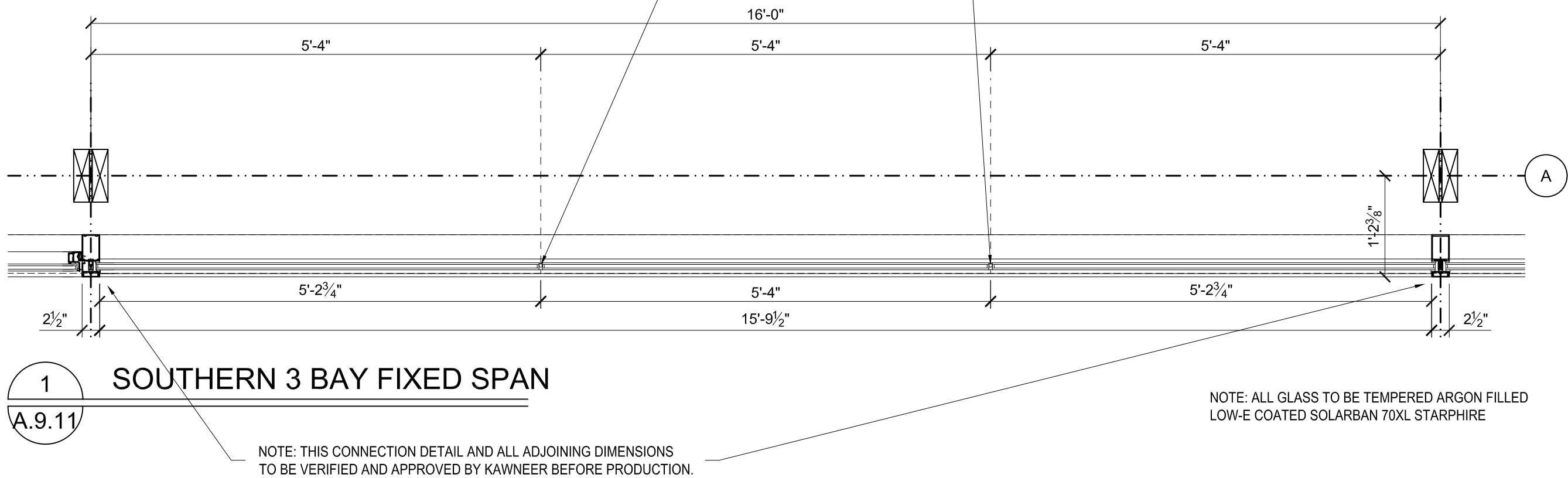
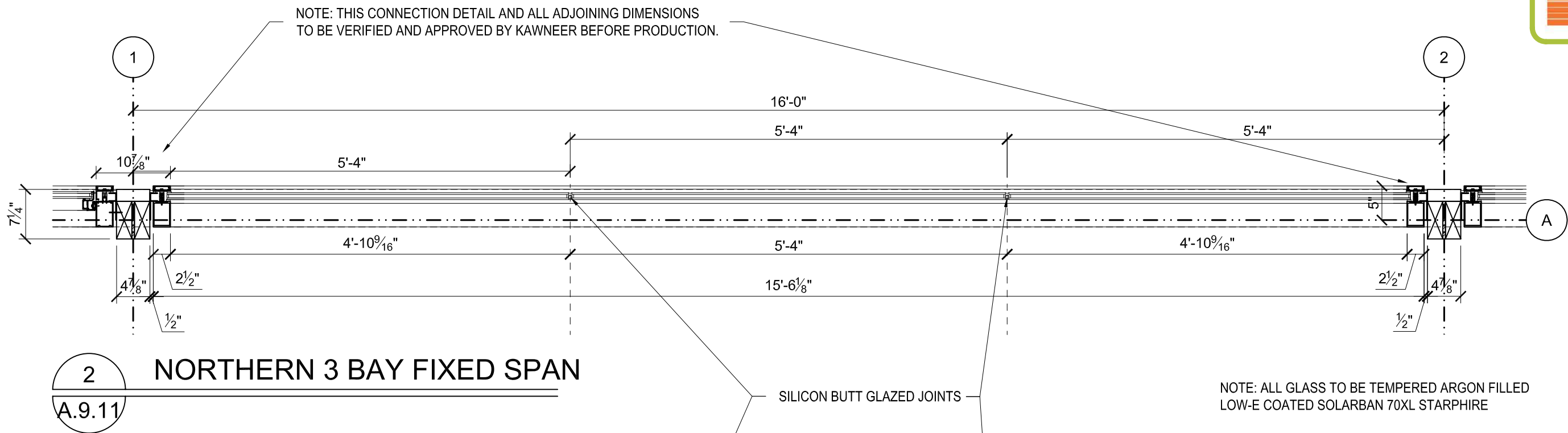


scale: 1-1/2" : 1' 0"

A.9.5

FLOOR CONSTRUCTION DETAILS (WEST WALL)





date	06.21.07
description	annotation changes as per June 21
revision	A

consultants:



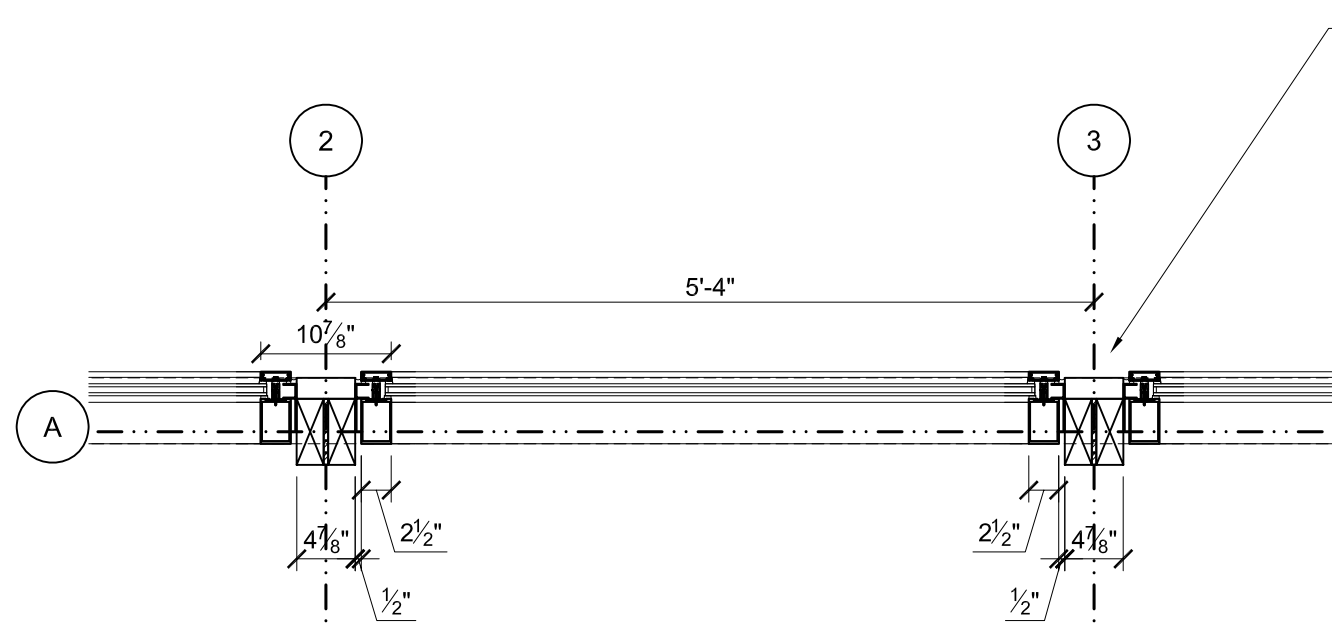
prepared by:  
**A. Jakubiec**  
date drawn:  
**05.29.07**



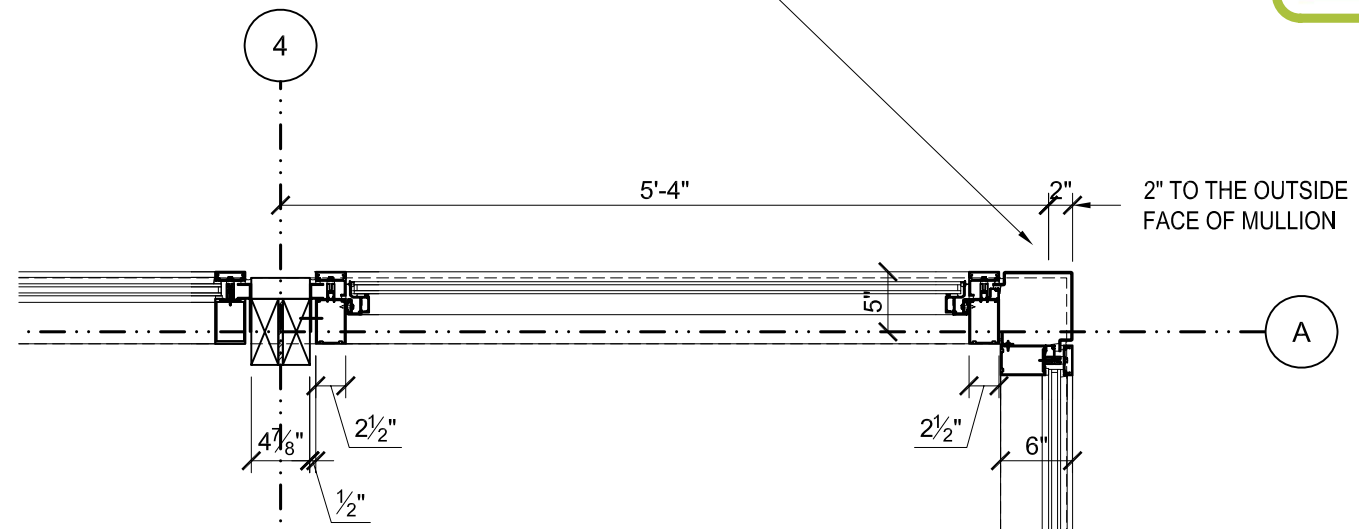
scale: **3/4" = 1'-0"**

**A.9.11**

CLERESTORY DETAILS

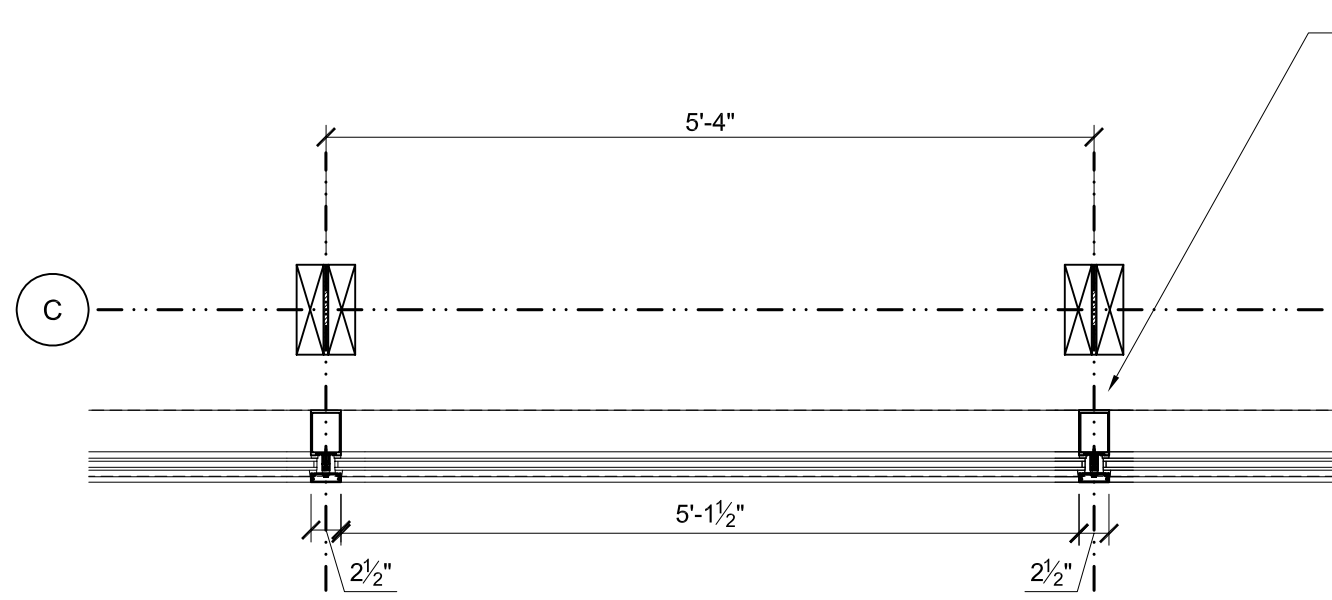


NOTE: THIS CONNECTION DETAIL AND ALL ADJOINING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.

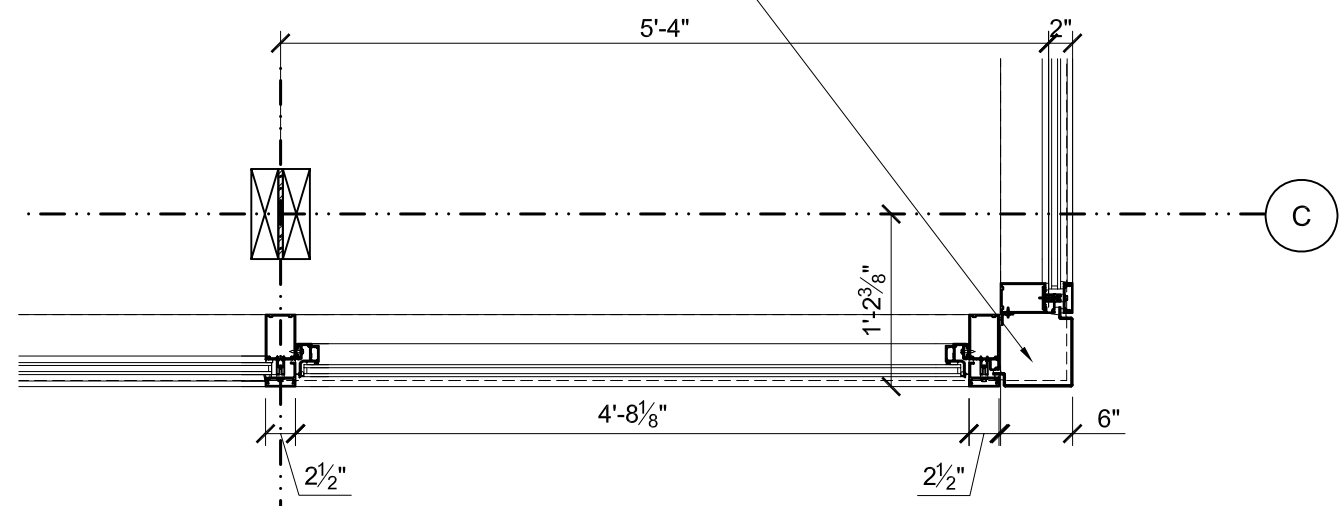


2 NORTHERN CENTRAL BAY  
A.9.12

4 NORTHERN OPERABLE CORNER BAY  
A.9.12



NOTE: THIS CONNECTION DETAIL AND ALL ADJOINING DIMENSIONS TO BE VERIFIED AND APPROVED BY KAWNEER BEFORE PRODUCTION.



1 SOUTHERN CENTRAL BAY  
A.9.12

3 SOUTHERN OPERABLE CORNER BAY  
A.9.12

NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

date	06.21.07
description	annotation changes as per June 21
revision	A

consultants:



prepared by:  
A. Jakubiec  
date drawn:  
05.29.07

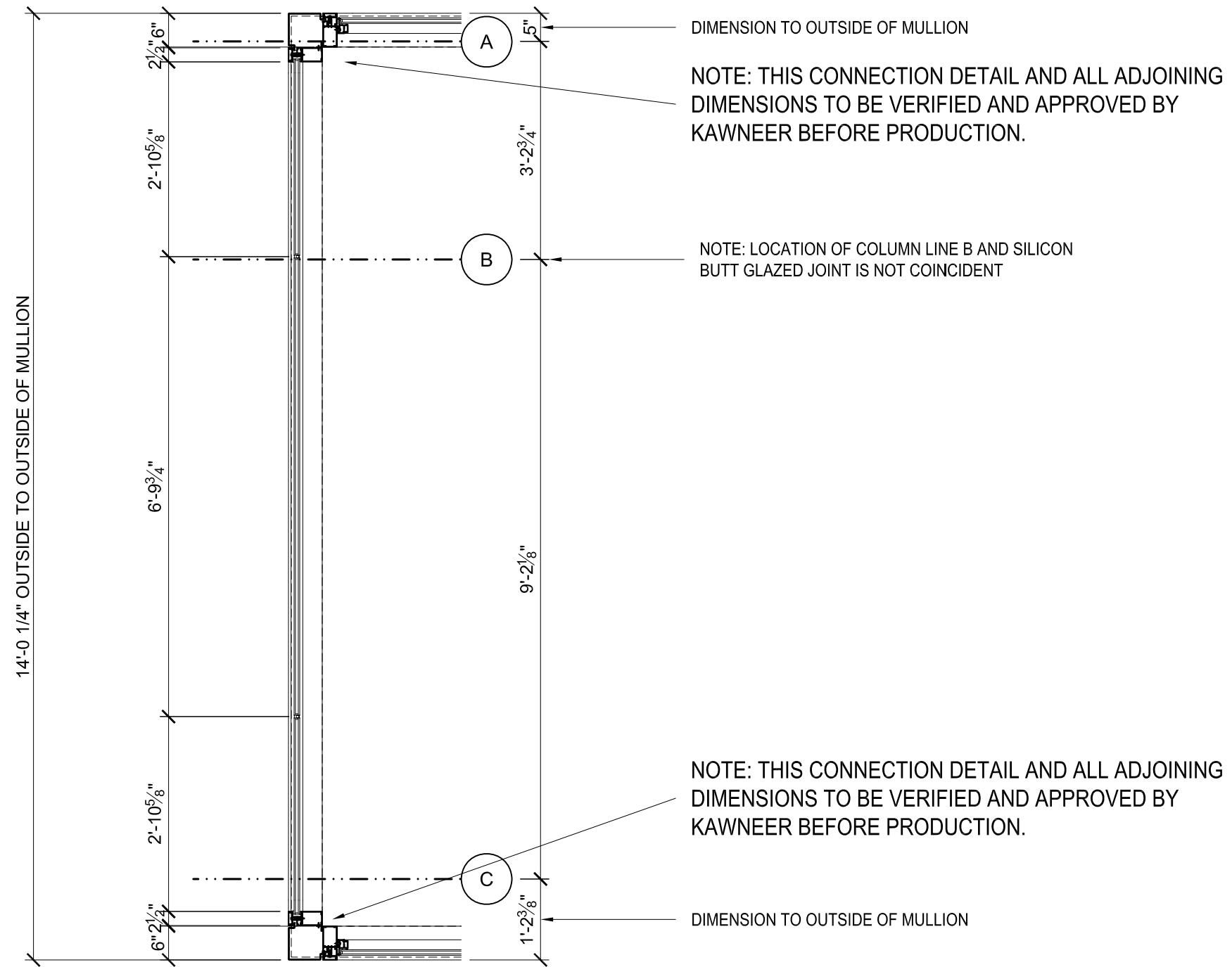


scale: 3/4" = 1'-0"

A.9.12

CLERESTORY DETAILS





1 WESTERN TYPICAL BAY  
A.9.13 NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

revision	description	date
A	aligned silicon joints with mullion centerlines	06.01.07
B	annotation changes as per June 21	06.21.07

consultants:



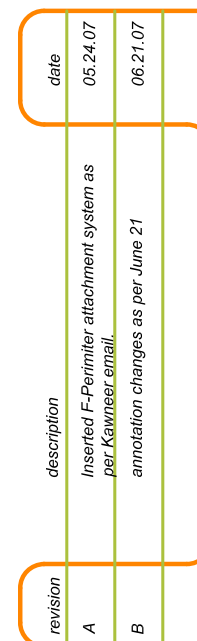
prepared by:  
**A. Jakubiec**  
date drawn:  
**05.29.07**



scale: 1/2"= 1'-0"

A.9.13

CLERESTORY DETAILS



**consultants:**



prepared by:  
**A. Jakubiec**  
date drawn:  
**05.24.07**

scale: **3" = 1' 0"**

## A.9.14

## CLERESTORY CONSTRUCTION

## SOUTH CLEBSTORY DETAIL

revision	description	date
A	Inserted F-Perimeter attachment system as per Kawneer email.	05.29.07
B	annotation changes as per June 21	06.21.07

consultants:



prepared by:

A. Jakubiec

date drawn:

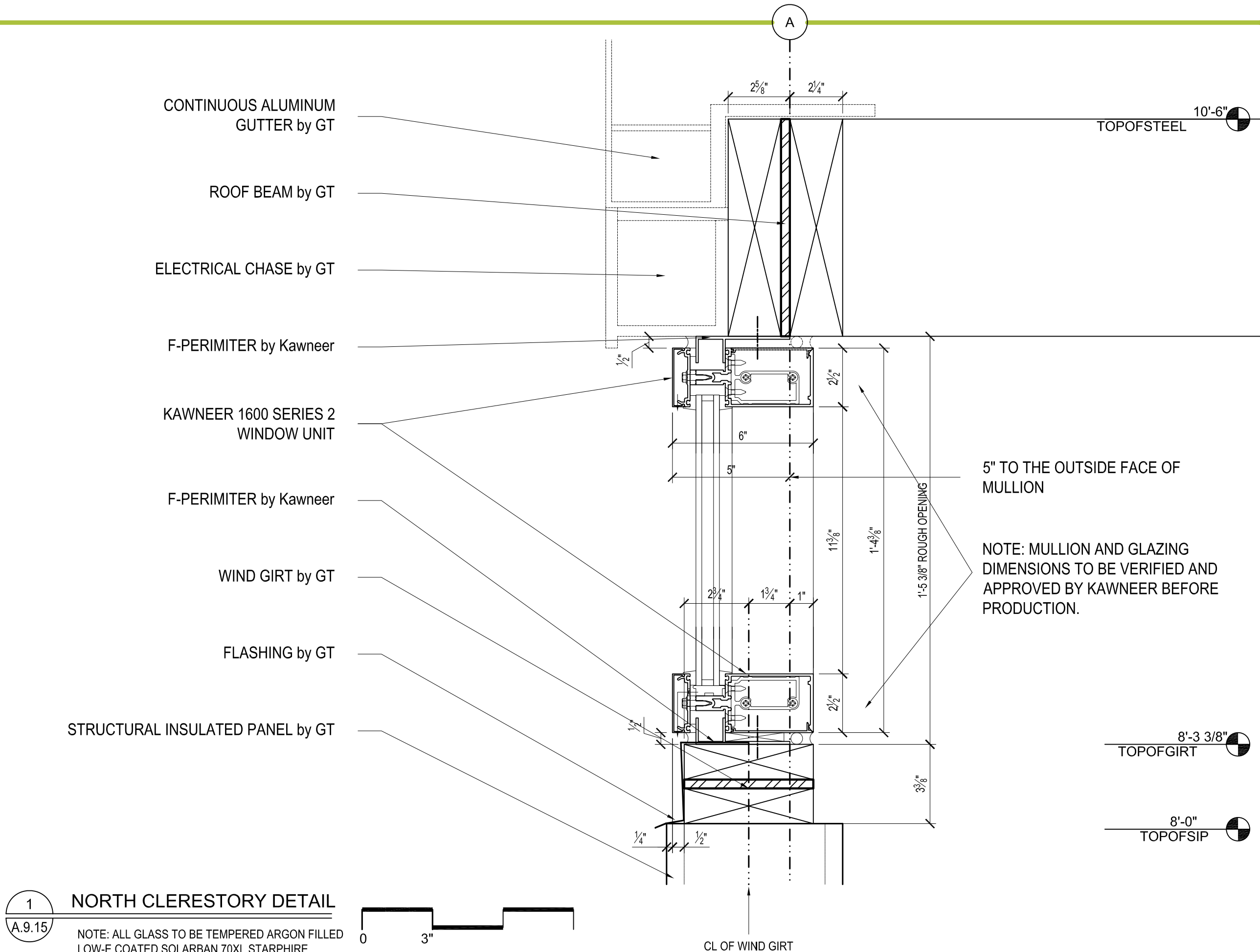
05.24.07

scale: 3" = 1' 0"

A.9.15

CLERESTORY  
CONSTRUCTION

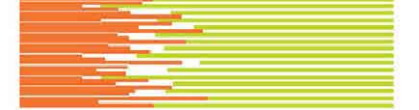
NORTH CLERESTORY DETAIL



1 NORTH CLERESTORY DETAIL  
A.9.15  
NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED  
LOW-E COATED SOLARBAN 70XL STARPHIRE

5'-4" TO COLUMN LINE 4

GEORGIA TECH SOLAR DECATHLON 07



CONTINUOUS ALUMINUM GUTTER  
AND ELECTRICAL CHASE by GT

ROOF BEAM by GT

WOOD BLOCKING by GT

F-PERIMETER by Kawneer

KAWNEER 1600 SERIES 2  
WINDOW UNIT

F-PERIMETER by Kawneer

WIND GIRT by GT

FLASHING by GT

2" TO THE OUTSIDE OF MULLION

NOTE: MULLION AND GLAZING  
DIMENSIONS TO BE VERIFIED AND  
APPROVED BY KAWNEER BEFORE  
PRODUCTION.

10'-6"  
TOPOFSTEEL

8'-3 3/8"  
TOPOFGIRT

8'-0"  
TOPOFSIP

CL OF WIND GIRT

1

## EAST AND WEST CLERESTORY DETAIL

A.9.16

NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED  
LOW-E COATED SOLARBAN 70XL STARPHIRE

0

3"

consultants:



prepared by:

A. Jakubiec

date drawn:

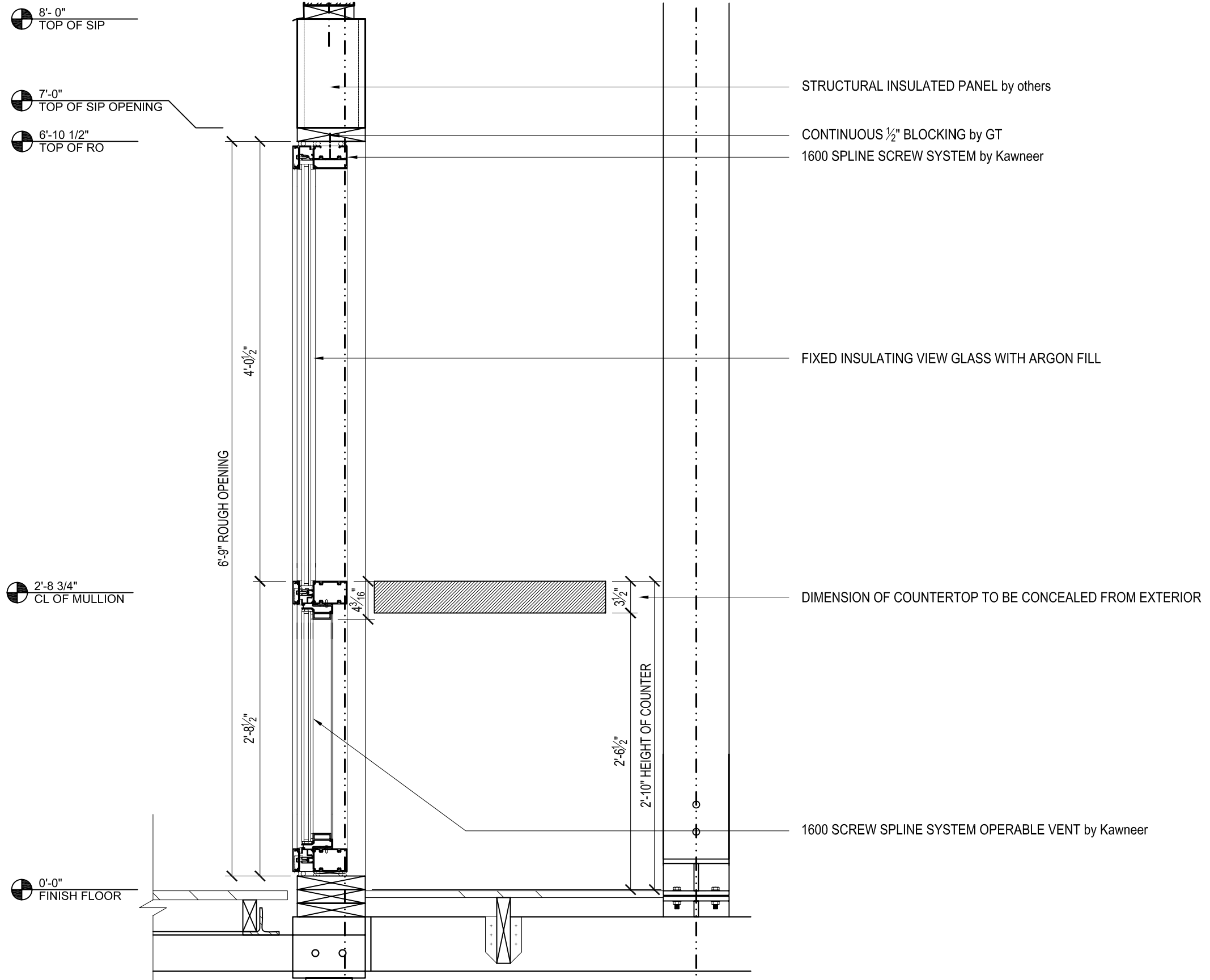
05.24.07

scale: 3" = 1' 0"

A.9.16

CLERESTORY  
CONSTRUCTION

EAST CLERESTORY DETAIL



date	
description	
revision	

consultants:



prepared by:

A. Jakubiec

date drawn:

07.03.07

scale: 1" = 1' 0"

A.9.17

CLERESTORY  
CONSTRUCTION

KITCHEN AND BATHROOM WINDOW DETAILS



revision	description	date
A	revised for 5/16" upturn under kawneer mullion	7.26.07

consultants:

\_\_\_\_\_

\_\_\_\_\_

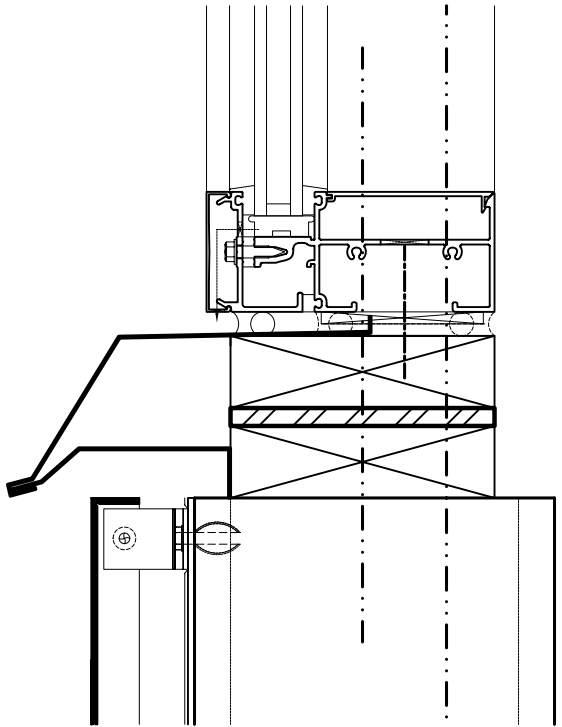
\_\_\_\_\_



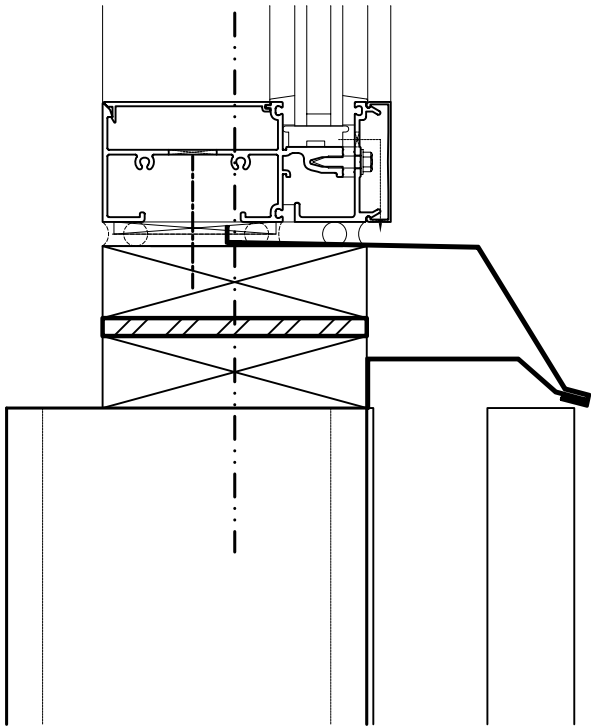
prepared by:  
**A. Jakubiec**  
date drawn:  
**07.24.07**

scale: 3" = 1' 0"

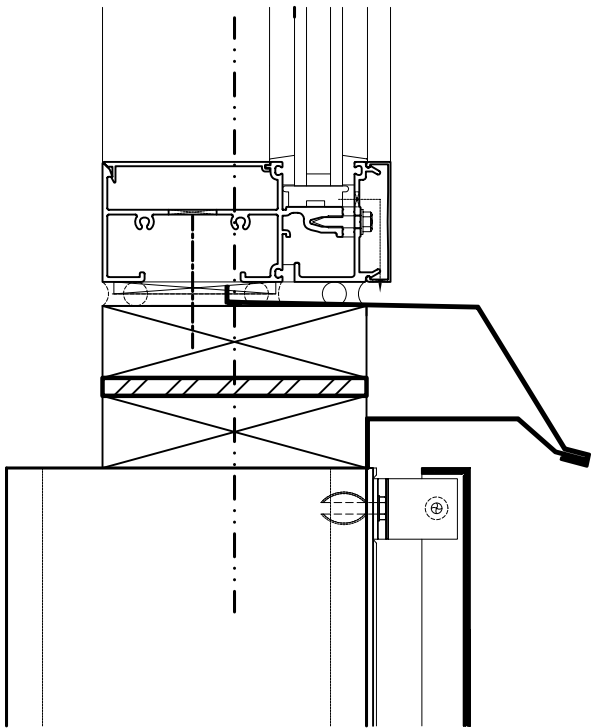
A.9.18



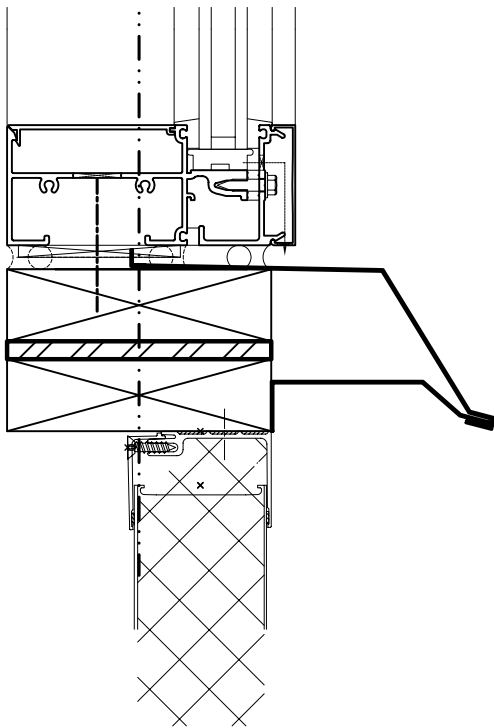
2 NORTH WIND GIRT FLASHING  
A.9.18



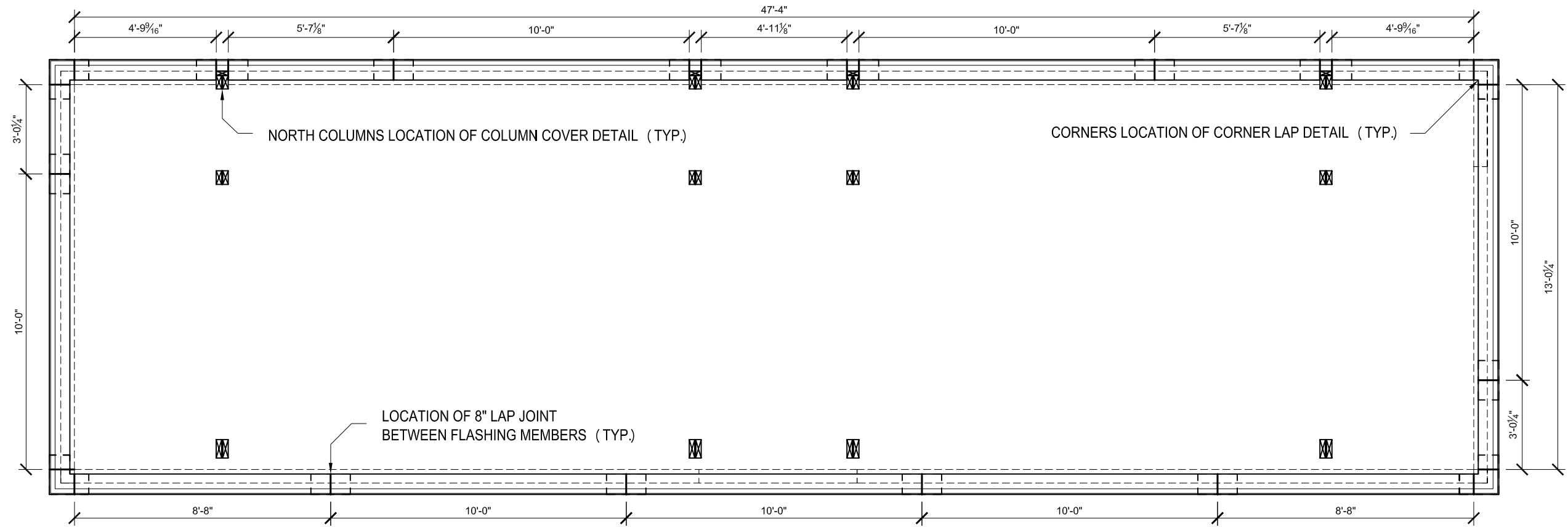
4 SOUTH WIND GIRT FLASHING AT PV  
A.9.18



1 WEST WIND GIRT FLASHING  
A.9.18



3 S/E WIND GIRT FLASHING AT DUO-GARD  
A.9.18



1

A.9.19

## WIND GIRT FLASHING PLAN

NOTE:  
.040" ANNOIDIZED ALUMINUM TO BE  
USED FOR ALL FLASHING

PIECES REQUIRED ( TOP AND BOTTOM PROFILES)	
STANDARD PROFILES:	COVER PROFILES:
10': 7 PIECES	8" LAP: 8 PIECES
4'-9 9/16": 2 PIECES	COLUMN COVERS: 4 PIECES
5'-7 7/8": 2 PIECES	CORNER LAP: 4 PIECES
4'-11 1/8": 1 PIECE	
3'-0 1/4": 2 PIECES	
8'-8": 2 PIECES	

date	
revision	
description	

consultants:



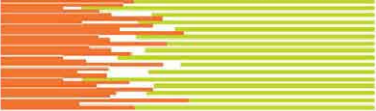
prepared by:  
**Aistan Jakubiec**  
date drawn:  
**07.24.07**



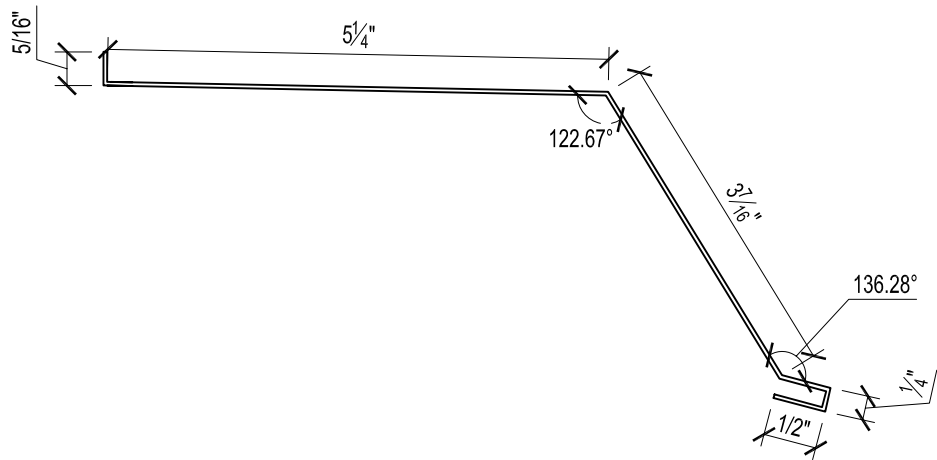
scale: 1/4"= 1'-0"

A.9.19

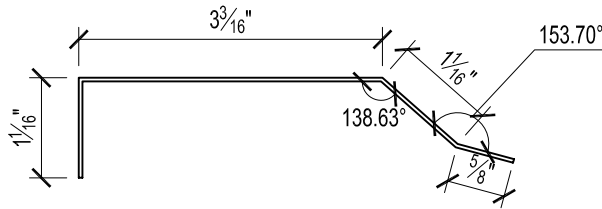
WIND GIRT FLASHING PLAN



1 FLASHING TYPE A: UPPER SECTION  
A.9.20



2 FLASHING TYPE B: LOWER SECTION  
A.9.20



NOTE:  
.040" ANNODIZED ALUMINUM TO BE USED FOR ALL FLASHING  
BEND ANGLES ARE APPROXIMATE

revision	description	date
A	revised for 5/16" upturn under kawneer mullion	7.26.07

consultants:



prepared by:  
**A. Jakubiec**  
date drawn:  
**07.24.07**

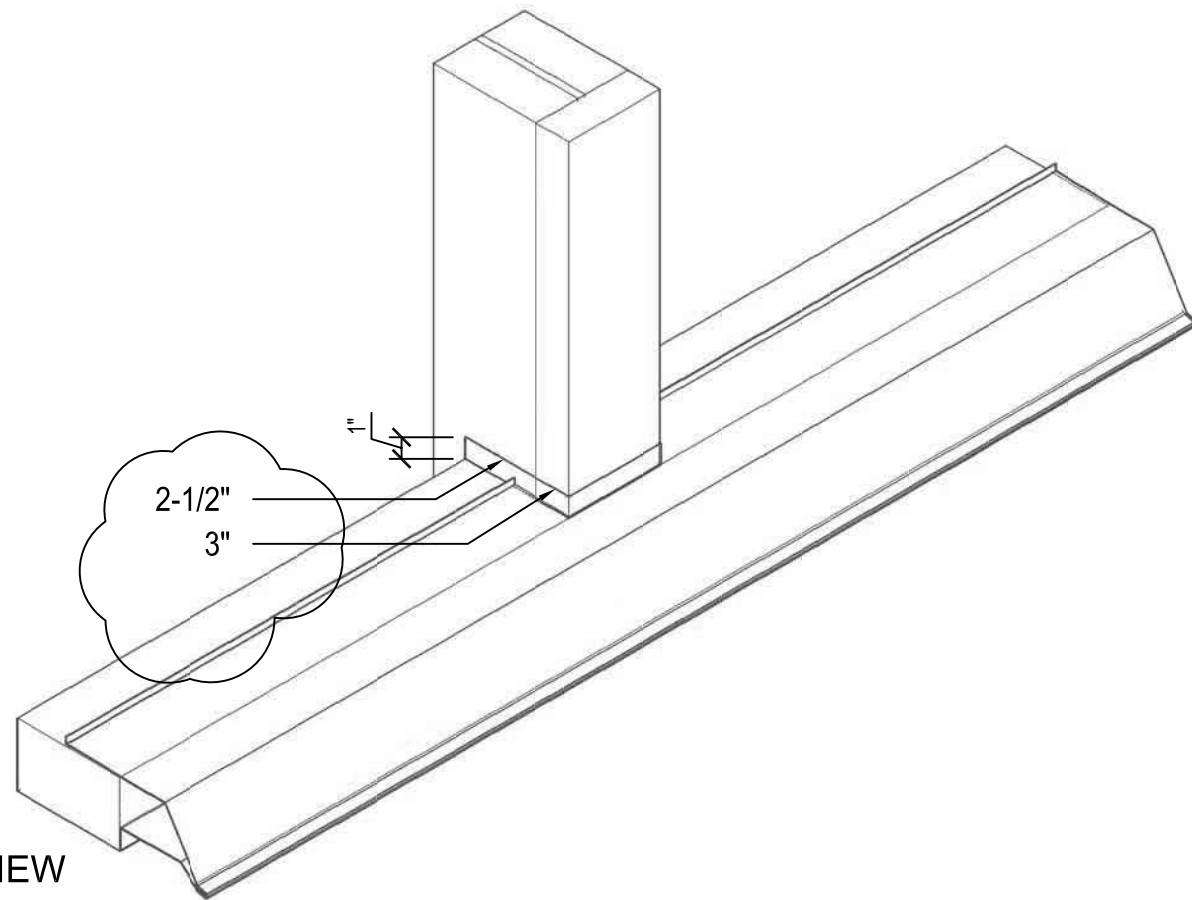
scale: 6" = 1' 0"

A.9.20

FLASHING TYPICAL PRODUCTION DETAILS

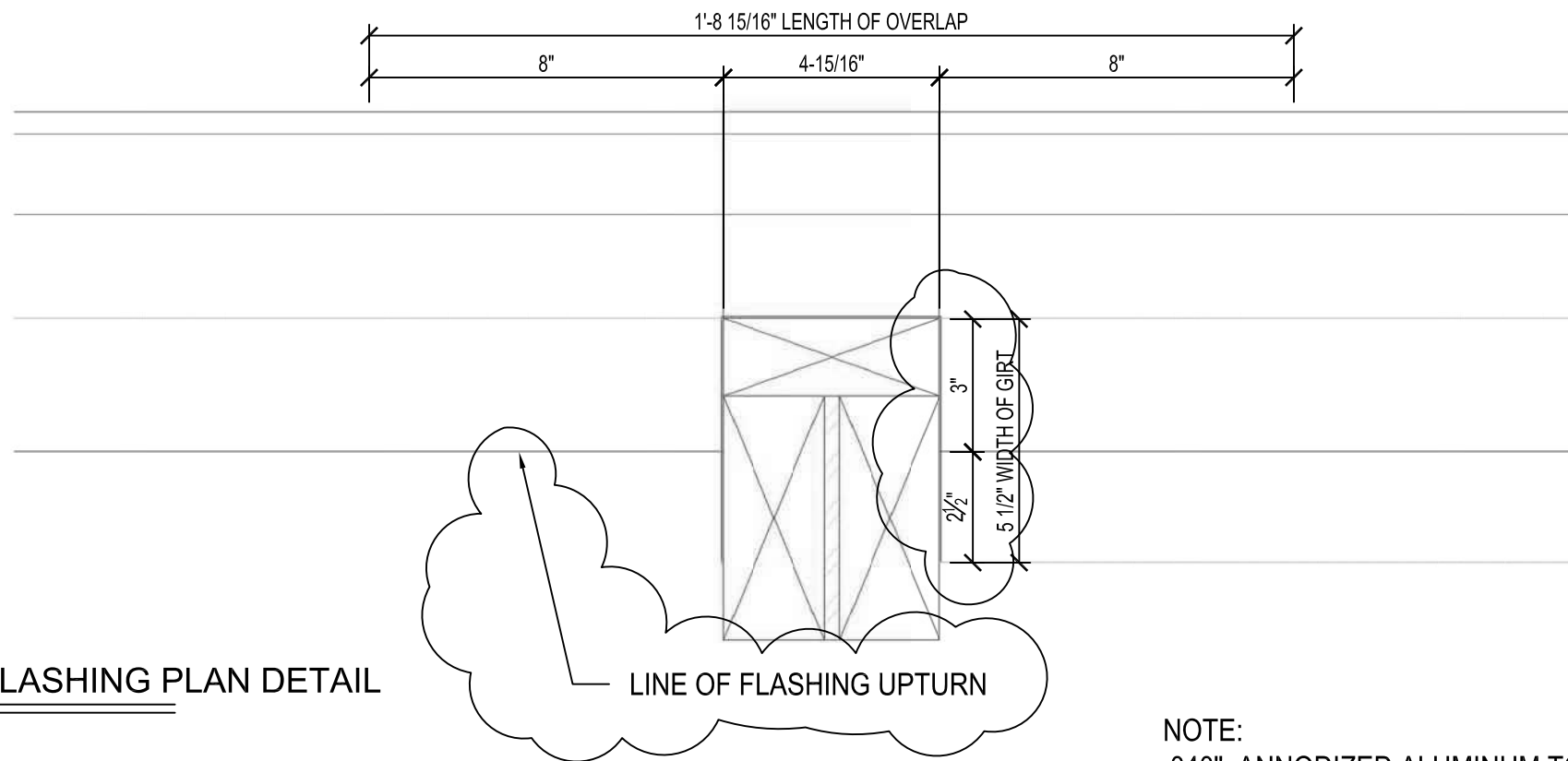
1  
A.9.21

COLUMN COVER FLASHING 3D VIEW



2  
A.9.21

COLUMN COVER FLASHING PLAN DETAIL



NOTE:  
.040" ANNODIZED ALUMINUM TO BE USED FOR ALL FLASHING  
BEND ANGLES ARE APPROXIMATE

revision	description	date
A	revised for 5/16" upturn under kawneer mullion	7.26.07
B	dimensional verifications about column - flashing relationship	7.31.07

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

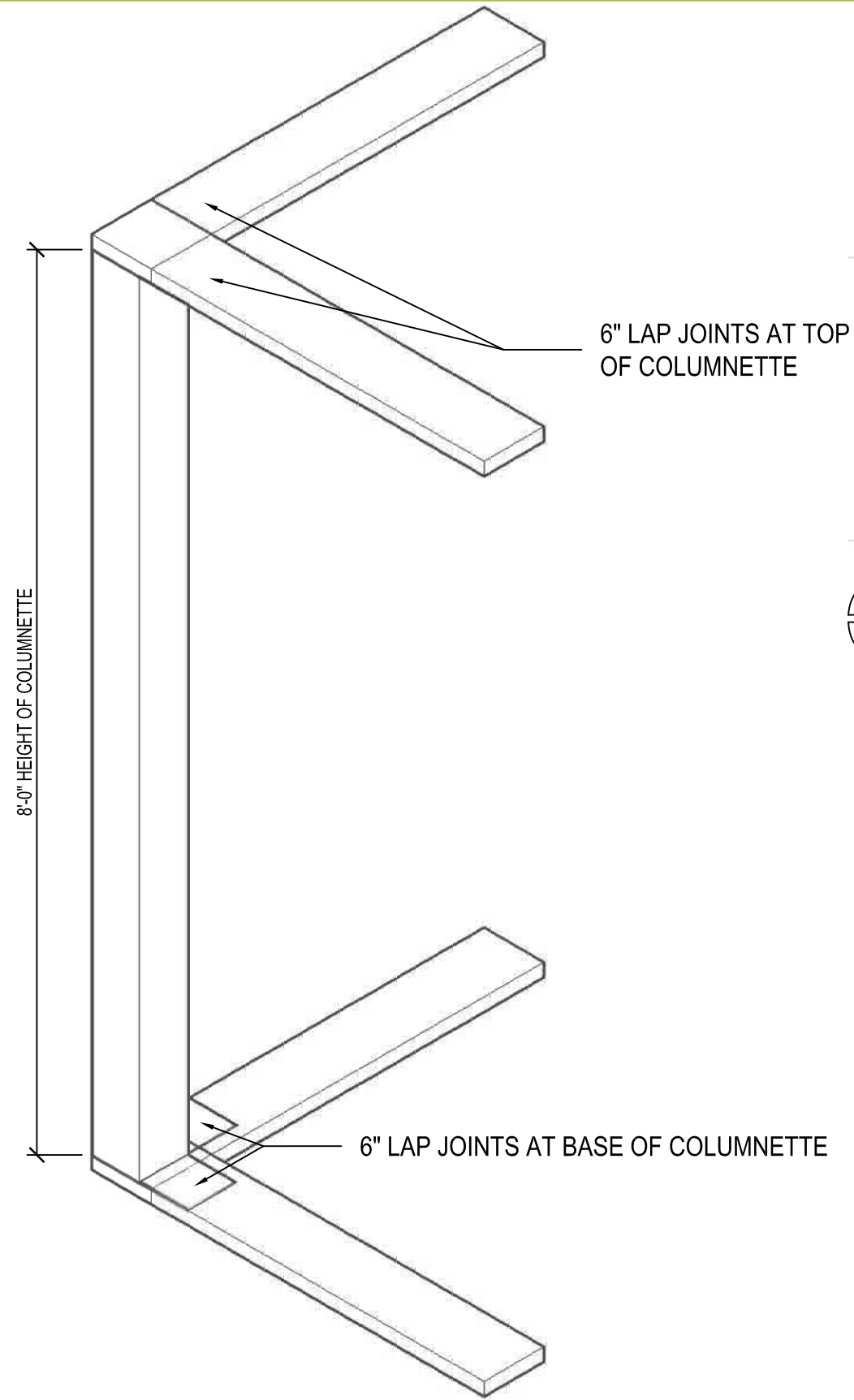


prepared by:  
**A. Jakubiec**  
date drawn:  
**07.24.07**

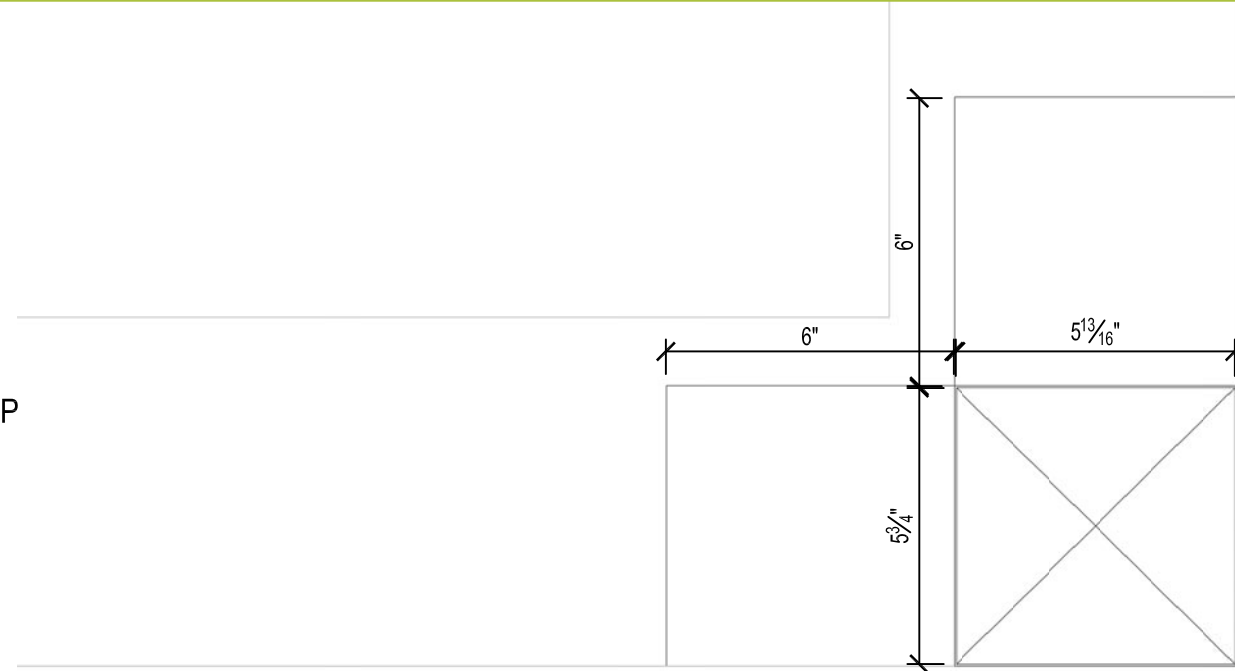
scale: 3" = 1' 0"

A.9.21

FLASHING TYPICAL PRODUCTION DETAILS

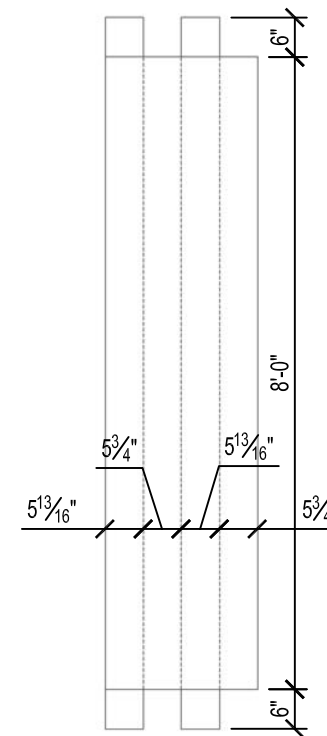


1 COLUMNETTE COVER AT CORNER 3D VIEW  
A.9.22 1 REQUIRED



2 COLUMNETTE COVER AT CORNER PLAN DETAIL  
A.9.22 1 REQUIRED

COVER AT CORNER COLUMNETTE  
SURROUNDS ALL 4 SIDES



2 COLUMNETTE COVER AT CORNER UNFOLDED ELEVATION DETAIL  
A.9.22 1 REQUIRED

NOTE:  
.040" ANNODIZED ALUMINUM TO BE USED FOR ALL FLASHING

revision	description	date
A	revised for 5/16" upturn under kawneer mullion	7.26.07

consultants:



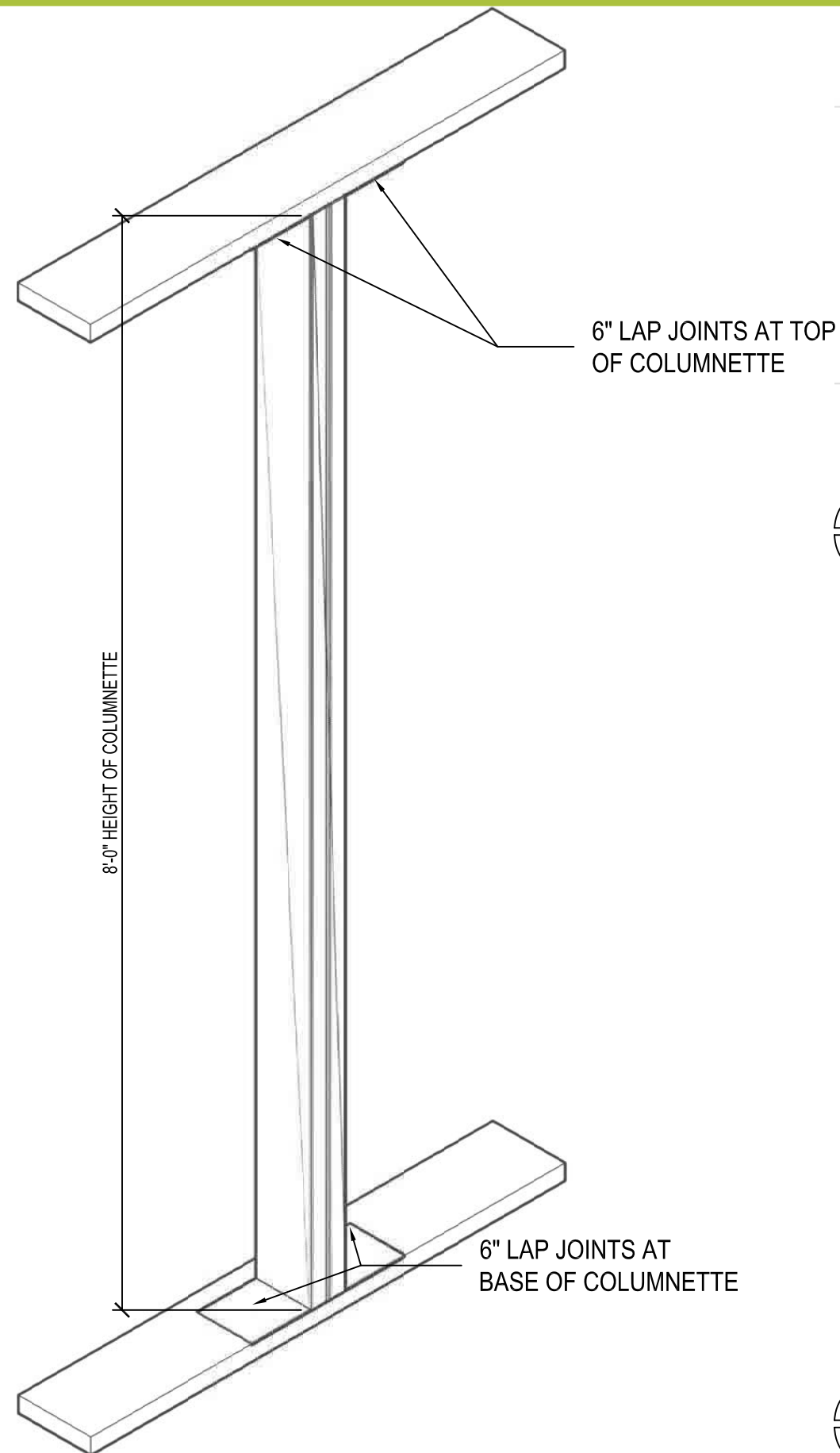
prepared by:  
**A. Jakubiec**  
date drawn:  
**07.24.07**

scale: 3" = 1' 0"

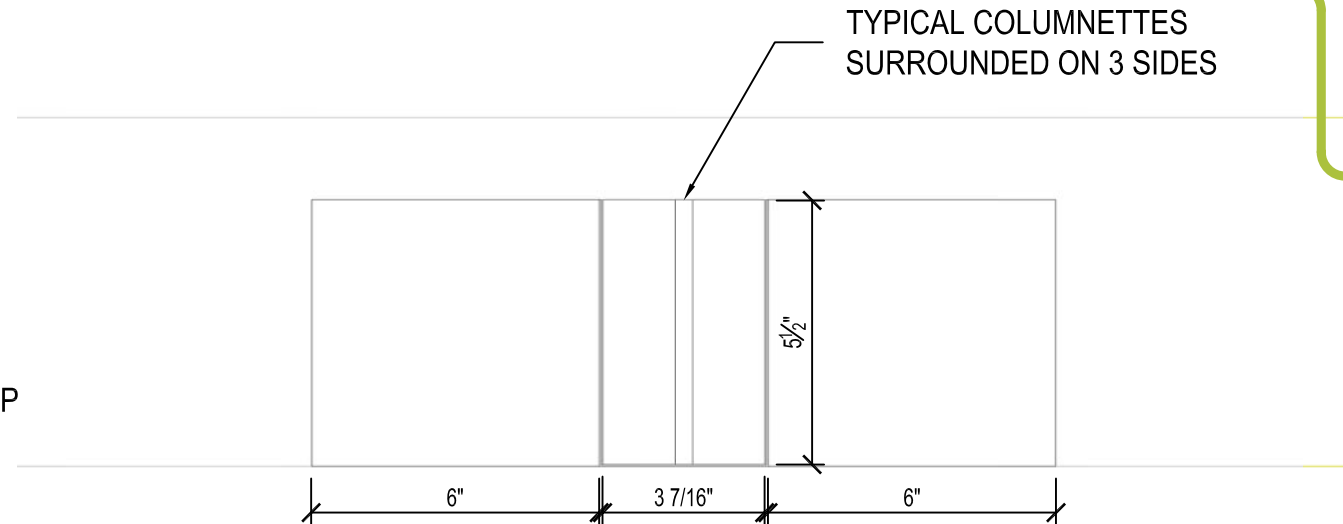
A.9.22

COLUMNETTE COVER PRODUCTION DETAILS

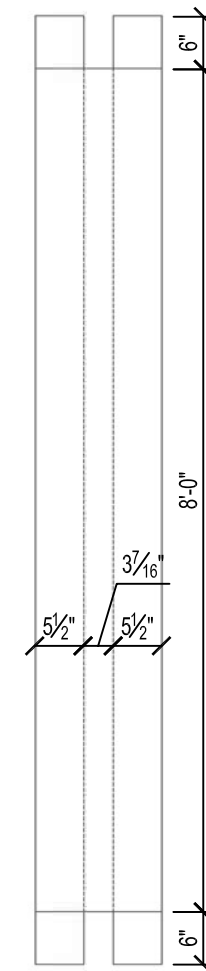




1 TYP COLUMNNETTE COVER 3D VIEW  
A.9.23 5 REQUIRED

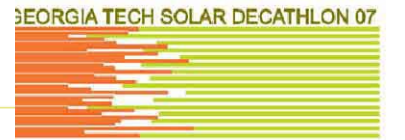


2 TYP COLUMNNETTE COVER AT PLAN DETAIL  
A.9.23 5 REQUIRED



3 UNFOLDED ELEVATION DETAIL  
A.9.23

NOTE:  
.040" ANNOZIZED ALUMINUM TO BE USED FOR ALL FLASHING



revision	description	date
A	revised for 5/16" upturn under kawneer mullion	7.26.07

consultants:

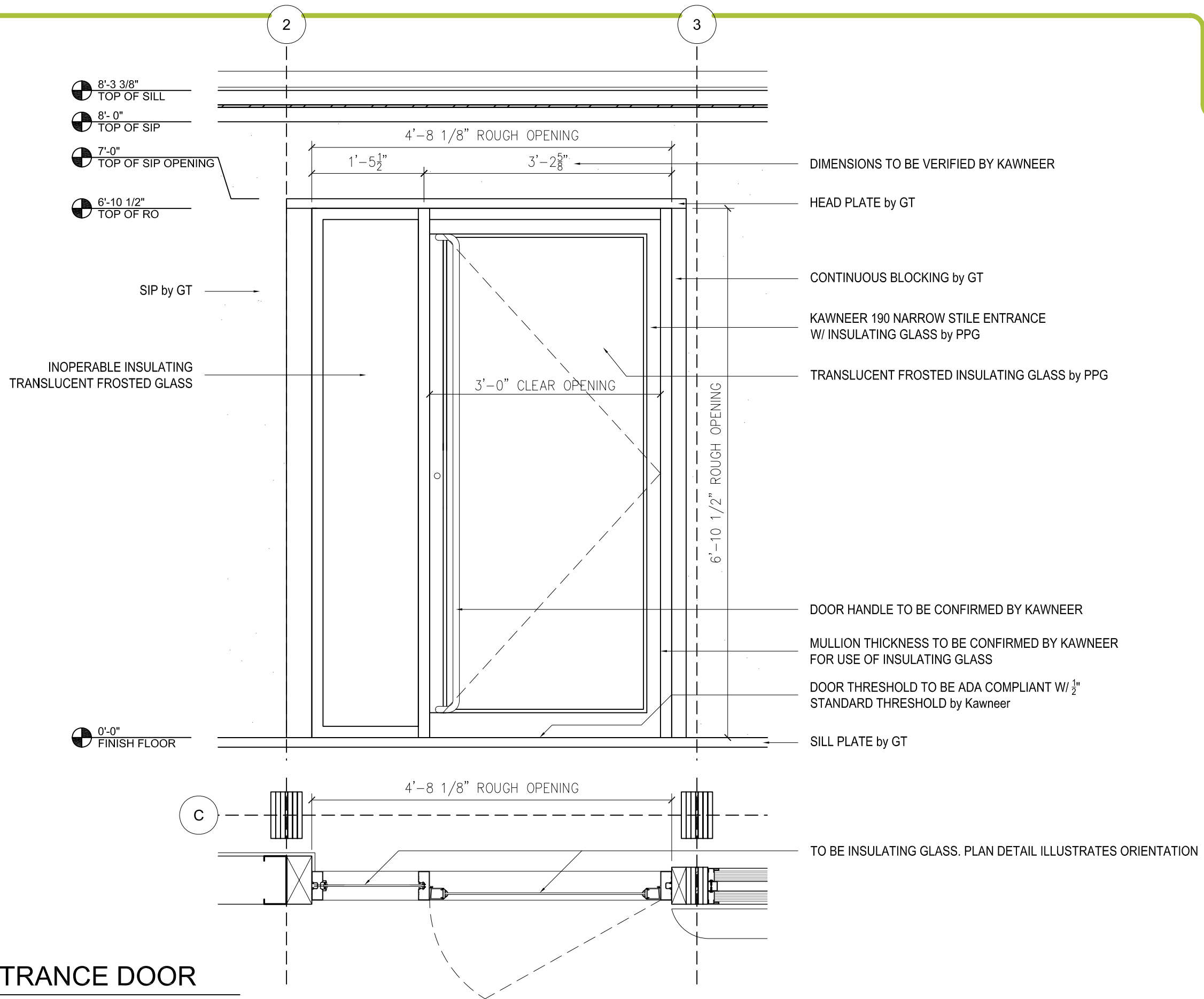


prepared by:  
**A. Jakubiec**  
date drawn:  
**07.24.07**

scale: 3" = 1' 0"

A.9.23

COLUMNNETTE COVER PRODUCTION DETAILS



date	
description	
revision	

consultants:

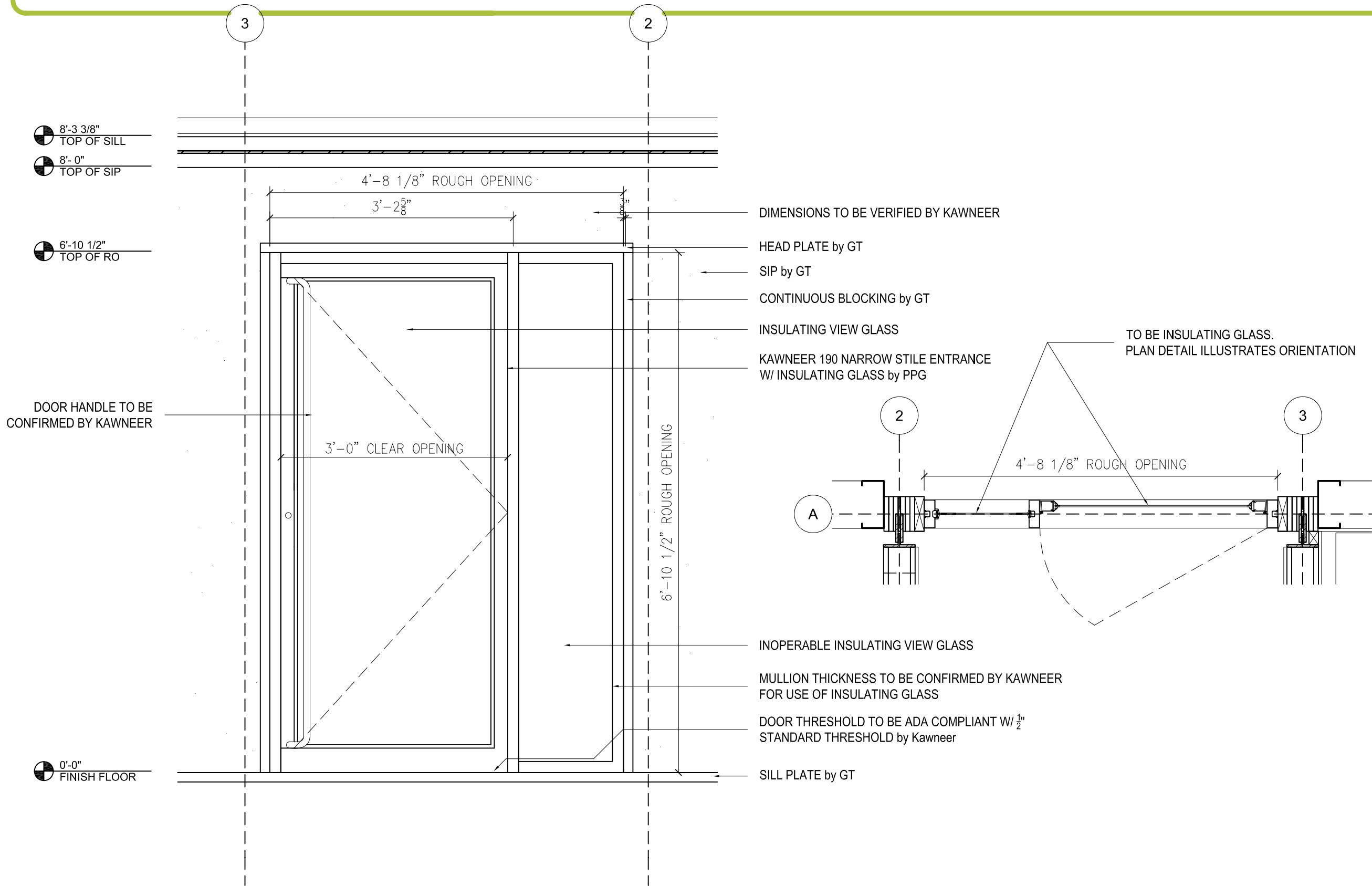
prepared by:  
**A. Jakubiec**

date drawn:  
06.29.07

scale: 3/4" : 1' 0"

A.9.24

SOUTH ENTRANCE DOOR



**1 NORTH ENTRANCE DOOR**  
**A.9.25** NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

NOTE: DOOR FRAME SET IN 1/2" SEALANT GAP

date	
description	
revision	

consultants:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

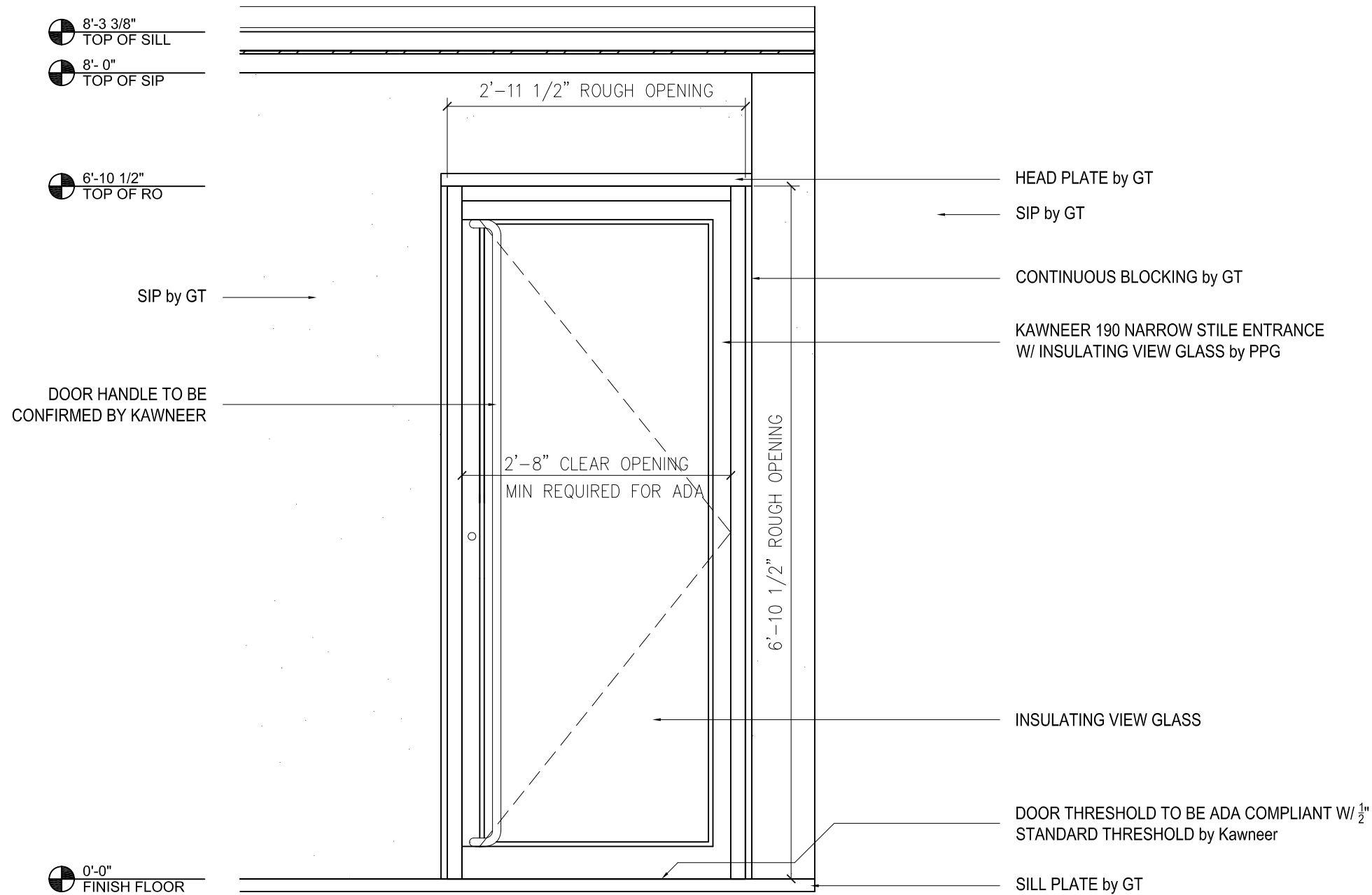


prepared by:  
**A. Jakubiec**  
date drawn:  
06.29.07

scale: 3/4" : 1' 0"

**A.9.25**

**NORTH ENTRANCE DOOR**



1 WEST BEDROOM DOOR

A.9.26 NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

NOTE: DOOR FRAME SET IN 1/2" SEALANT GAP

date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



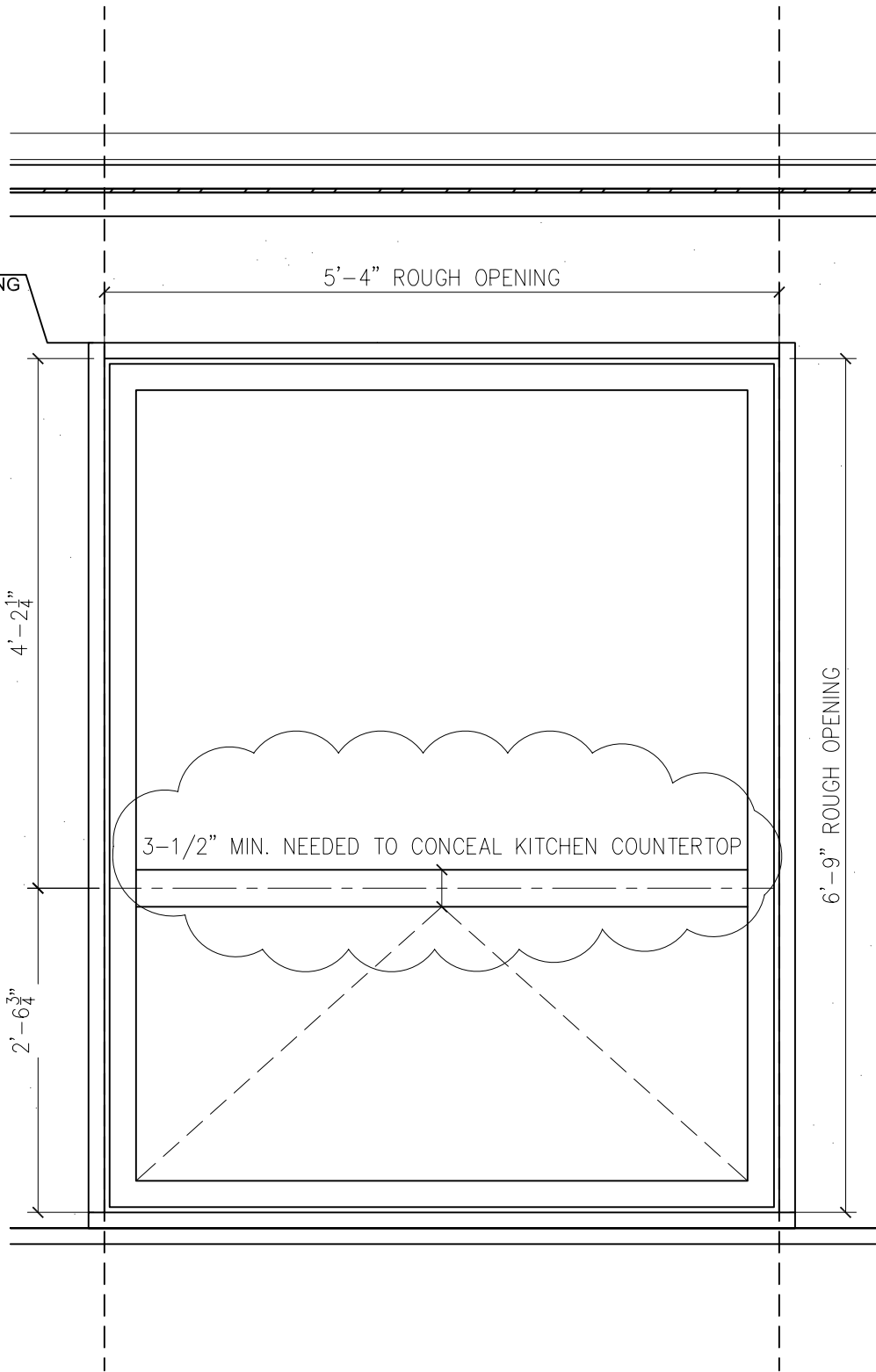
prepared by:  
**A. Jakubiec**  
date drawn:  
06.29.07

scale: 3/4" : 1' 0"

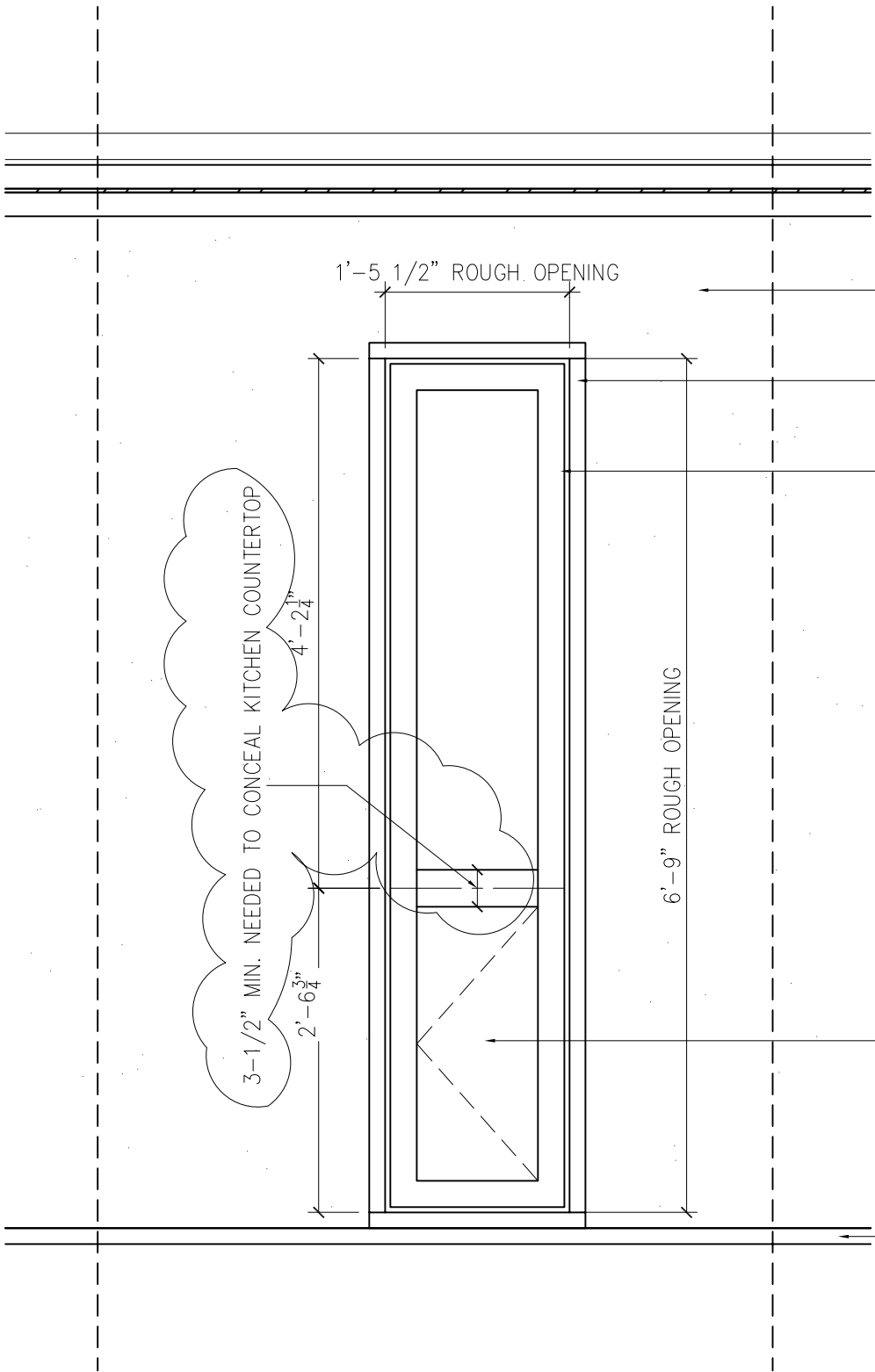
A.9.26

WEST BEDROOM DOOR

- 8'-3 3/8"  
TOP OF SILL
- 8'-0"  
TOP OF SIP
- 7'-0"  
TOP OF SIP OPENING
- 6'-10 1/2"  
TOP OF RO
- 2'-8 1/4"  
CL OF MULLION
- 0'-0"  
FINISH FLOOR



1 KITCHEN WINDOW DETAIL  
A.9.27



1 BATHROOM WINDOW DETAIL  
A.9.27

- STRUCTURAL INSULATED PANEL by GT
- 1-1/2" CONTINUOUS WOOD BLOCKING FORMS ROUGH OPENING by GT
- 1600 SCREW SPLINE SYSTEM by Kawneer

- OPERABLE VENT
- SILL PLATE by GT

date	06.29.07
revision	A
description	horizontal mullion adjustment

consultants:



prepared by:  
**A. Jakubiec**  
date drawn:  
06.29.07

scale: 3/4" : 1' 0"

NOTE: ALL GLASS TO BE TEMPERED ARGON FILLED LOW-E COATED SOLARBAN 70XL STARPHIRE

A.9.27

WINDOW ELEVATION DETAILS





date	
description	
revision	

consultants:

\_\_\_\_\_

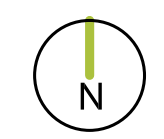
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**

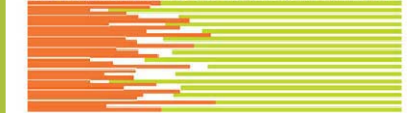


scale: **1/4" : 1' 0"**

**A.10.1**

INTERIOR VIEW : bedroom





date	description	revision

consultants:



prepared by:

**Sarah Shelley**

date drawn:

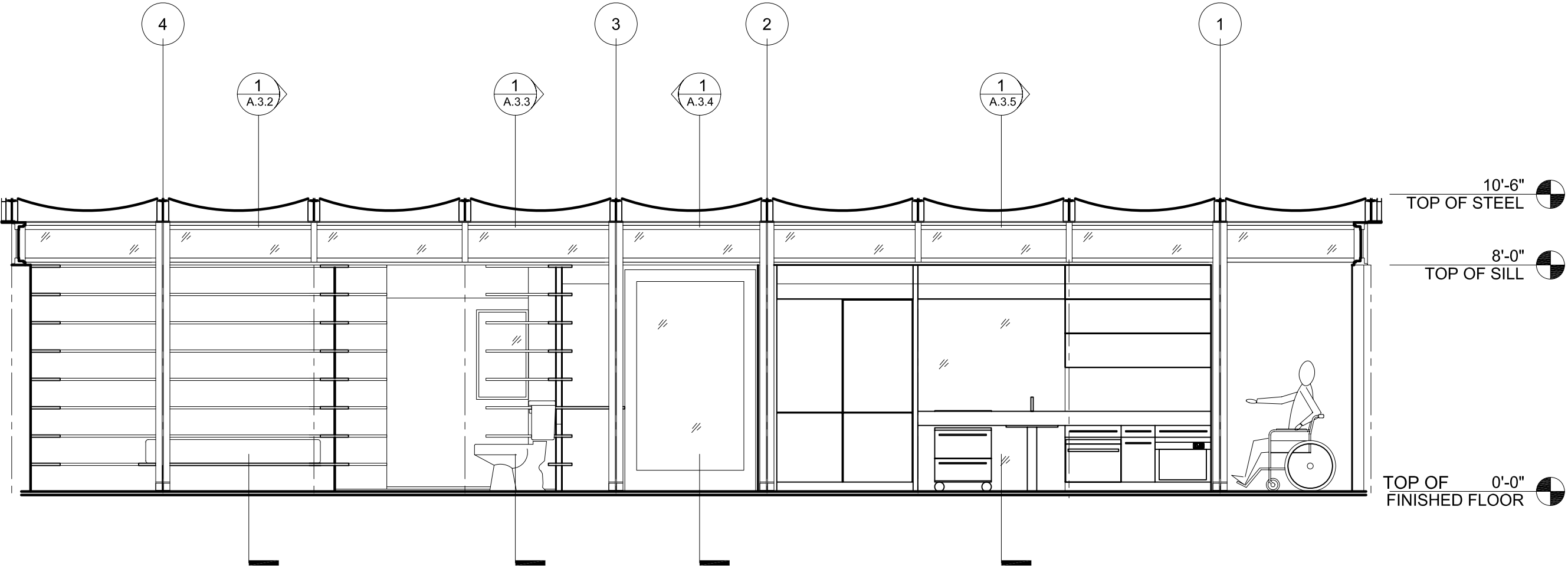
**12.6.06**



scale: **1/4" : 1' 0"**

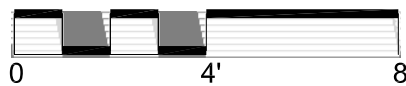
**A.10.2**

INTERIOR VIEW : living space and kitchen



BEDROOM	BATHROOM	HOME OFFICE	ENTRANCE	KITCHEN	ENTERTAINMENT WALL
---------	----------	-------------	----------	---------	--------------------

1 INTERIOR ELEVATION: NORTH  
A.10.4



date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**

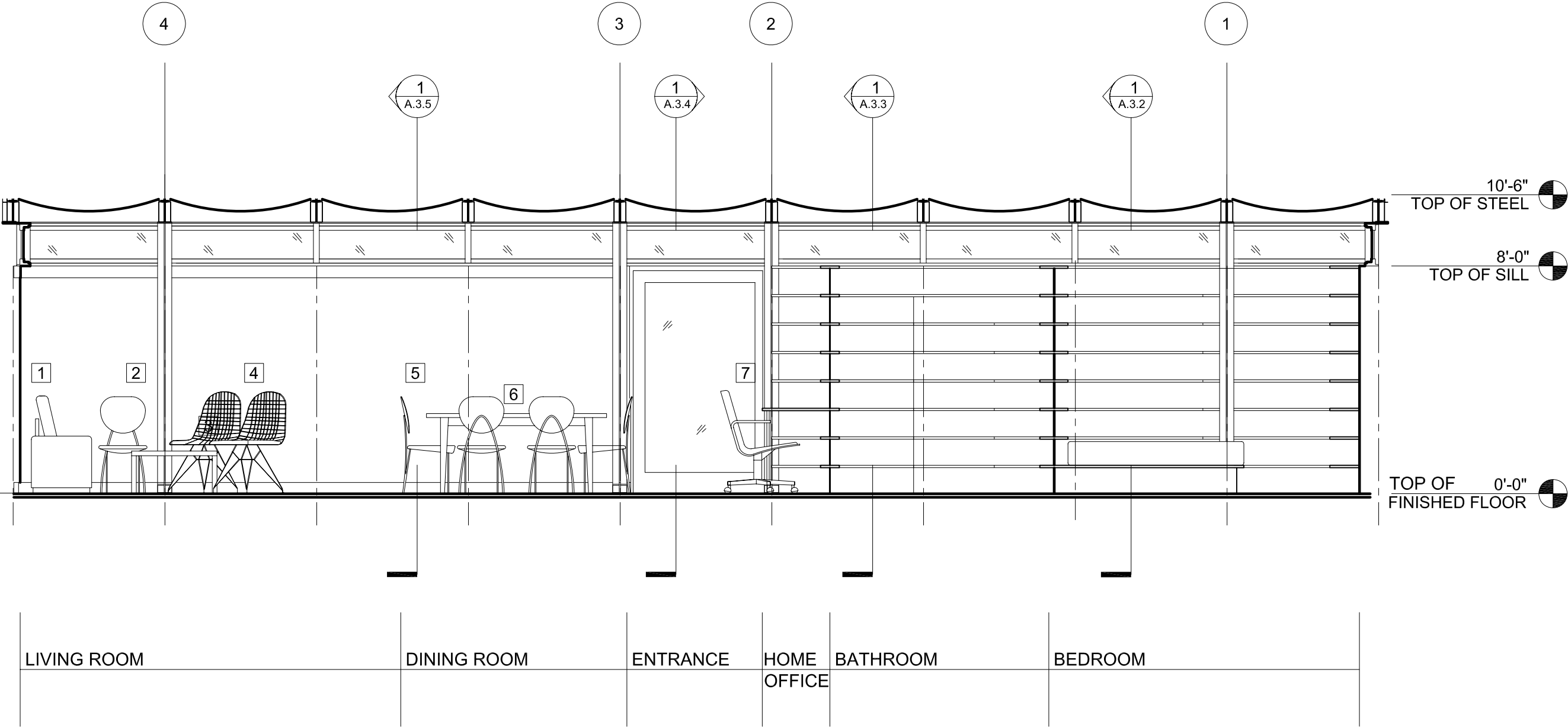


scale: **1/4" : 1' 0"**

**A.10.4**

INTERIOR ELEVATION - LONGITUDINAL LOOKING NORTH

#	FURNITURE TYPE	MANUFACTURER
1	SOFA	HERMAN MILLER
2	LIVING ROOM CHAIR-1	HERMAN MILLER
3	COFFEE TABLE	HERMAN MILLER
4	LIVING ROOM CHAIR-2	HERMAN MILLER
5	DINING ROOM CHAIR	HERMAN MILLER
6	DINING ROOM TABLE	HERMAN MILLER
7	DESK CHAIR	HERMAN MILLER



1 INTERIOR ELEVATION: SOUTH  
A.10.5

date	
description	
revision	

consultants:



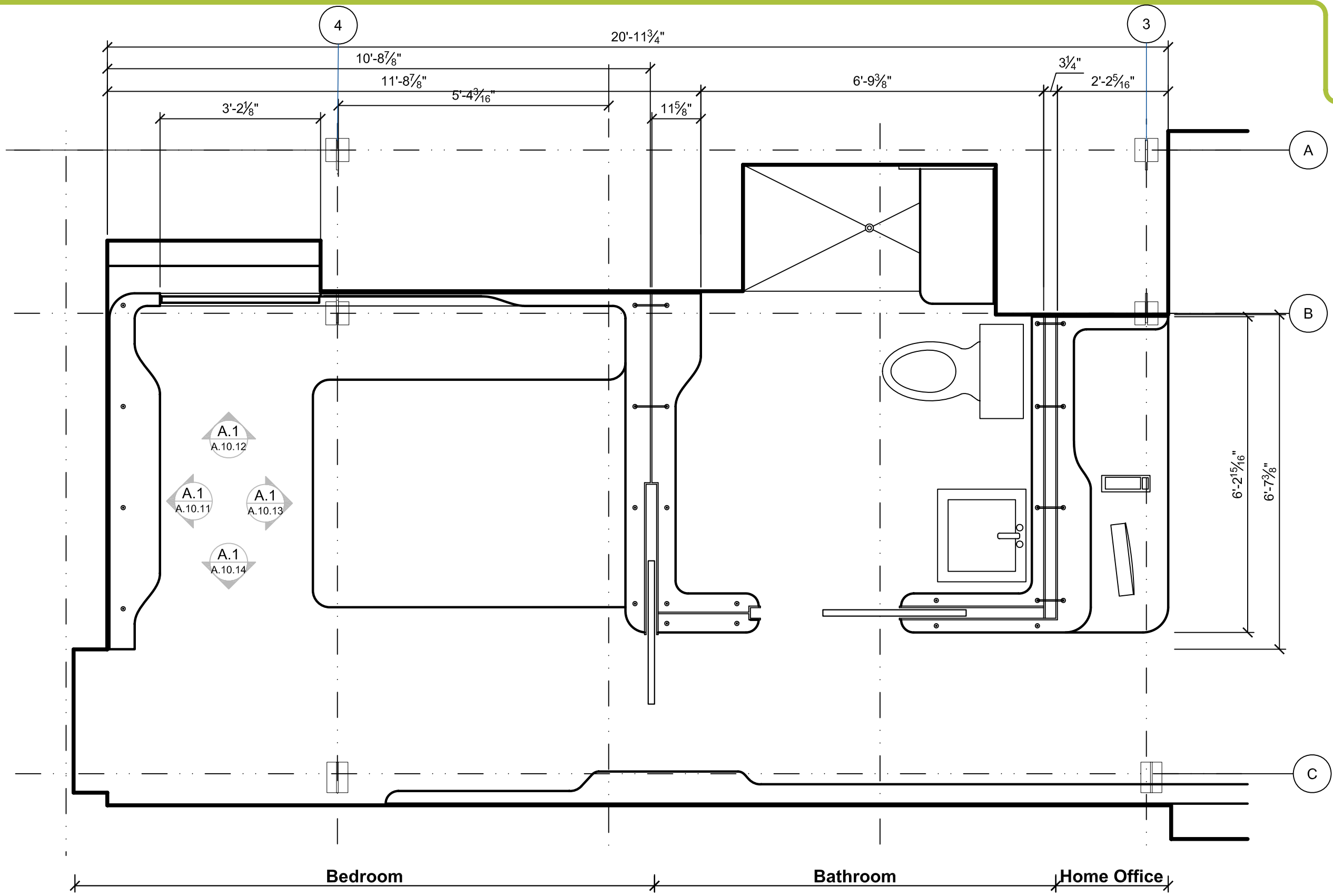
prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**



scale: 1/4" : 1' 0"

A.10.5

INTERIOR ELEVATION - LONGITUDINAL LOOKING SOUTH



date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



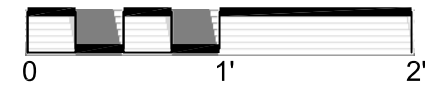
prepared by:  
**Kevin Short**  
date drawn:  
**12.03.06**



scale: 1/2" : 1' 0"

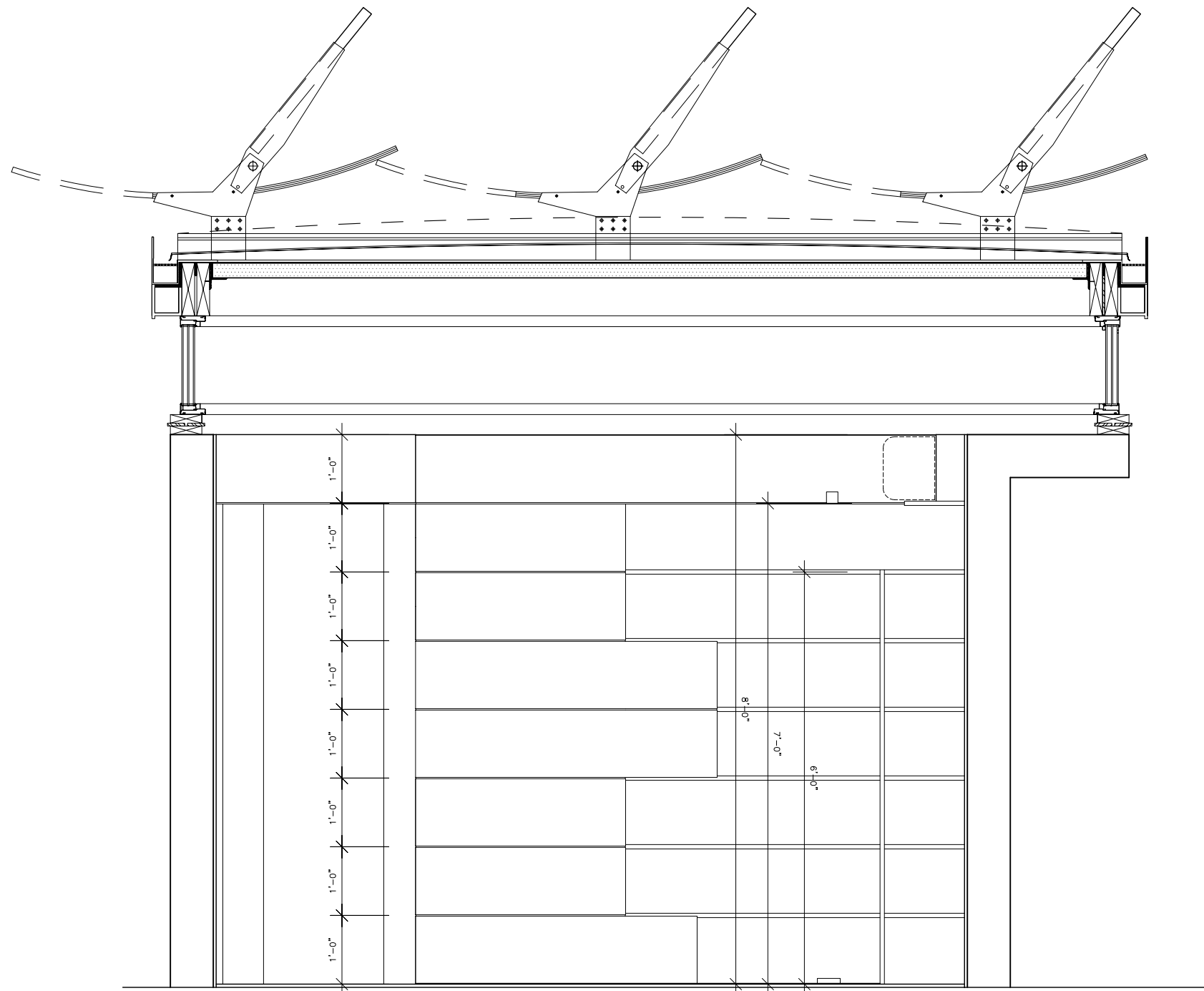
BEDROOM - PLAN

A1  
A.10.10  
BEDROOM - PLAN



A.10.10





A1  
A.10.11  
ELEVATION - BEDROOM WEST WALL

date	
revision	
description	

consultants:



prepared by:  
**V. Deo**  
date drawn:  
**07.29.07**

scale: 1/2"= 1'-0"

A.10.11

DIGITAL FABRICATED INTERIORS



date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



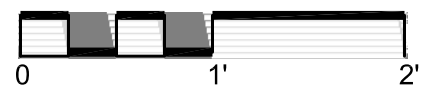
prepared by:  
**Kevin Short**  
date drawn:  
**12.03.06**



scale:  $\frac{1}{2}$ " : 1' 0"

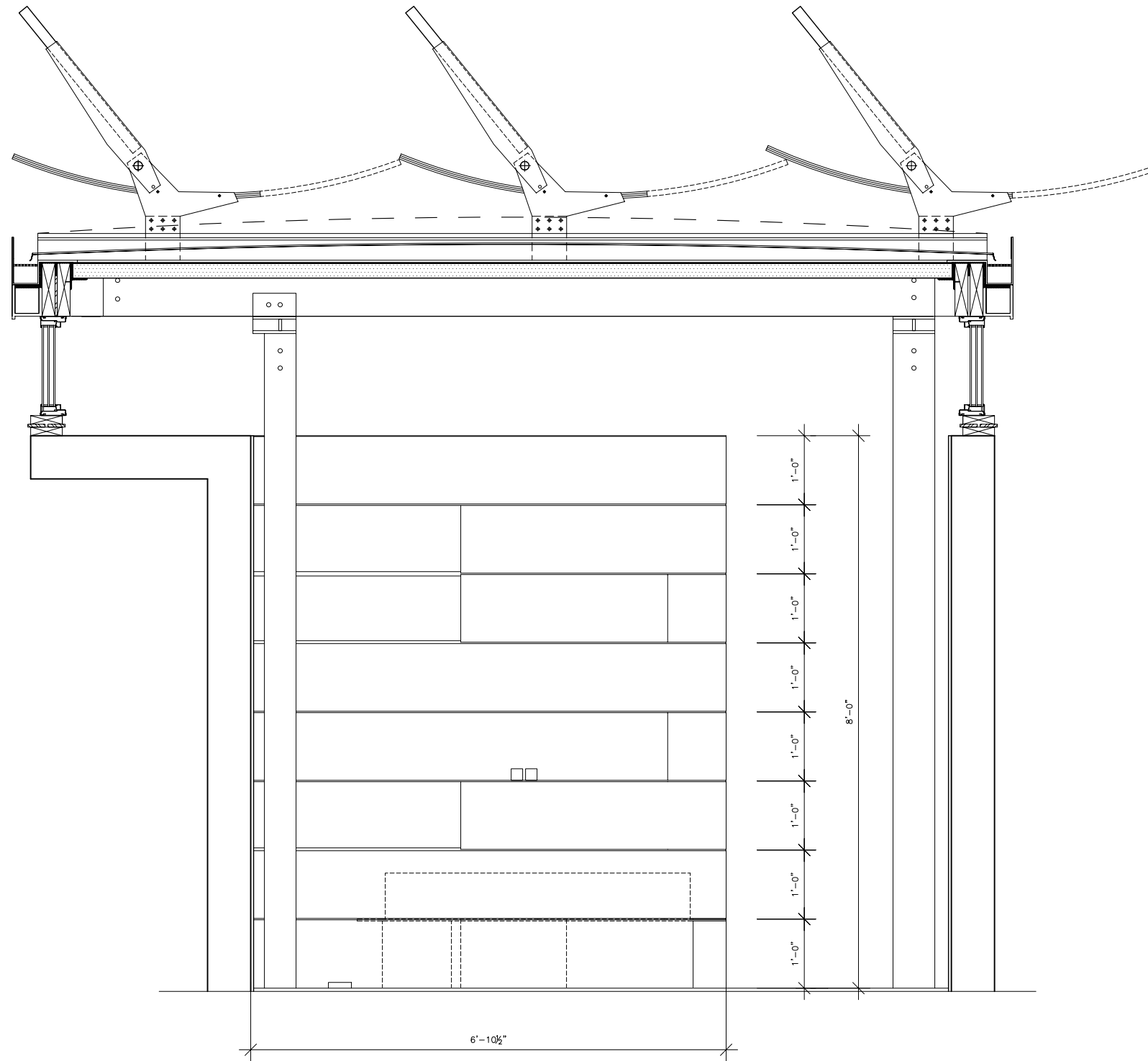
A1  
A.10.12

**BEDROOM - NORTH ELEVATION**



**BEDROOM - NORTH ELEVATION**

**A.10.12**



A1  
A.10.13  
ELEVATION - BEDROOM EAST WALL

date	
revision	
description	

consultants:



prepared by:

**V. Deo**

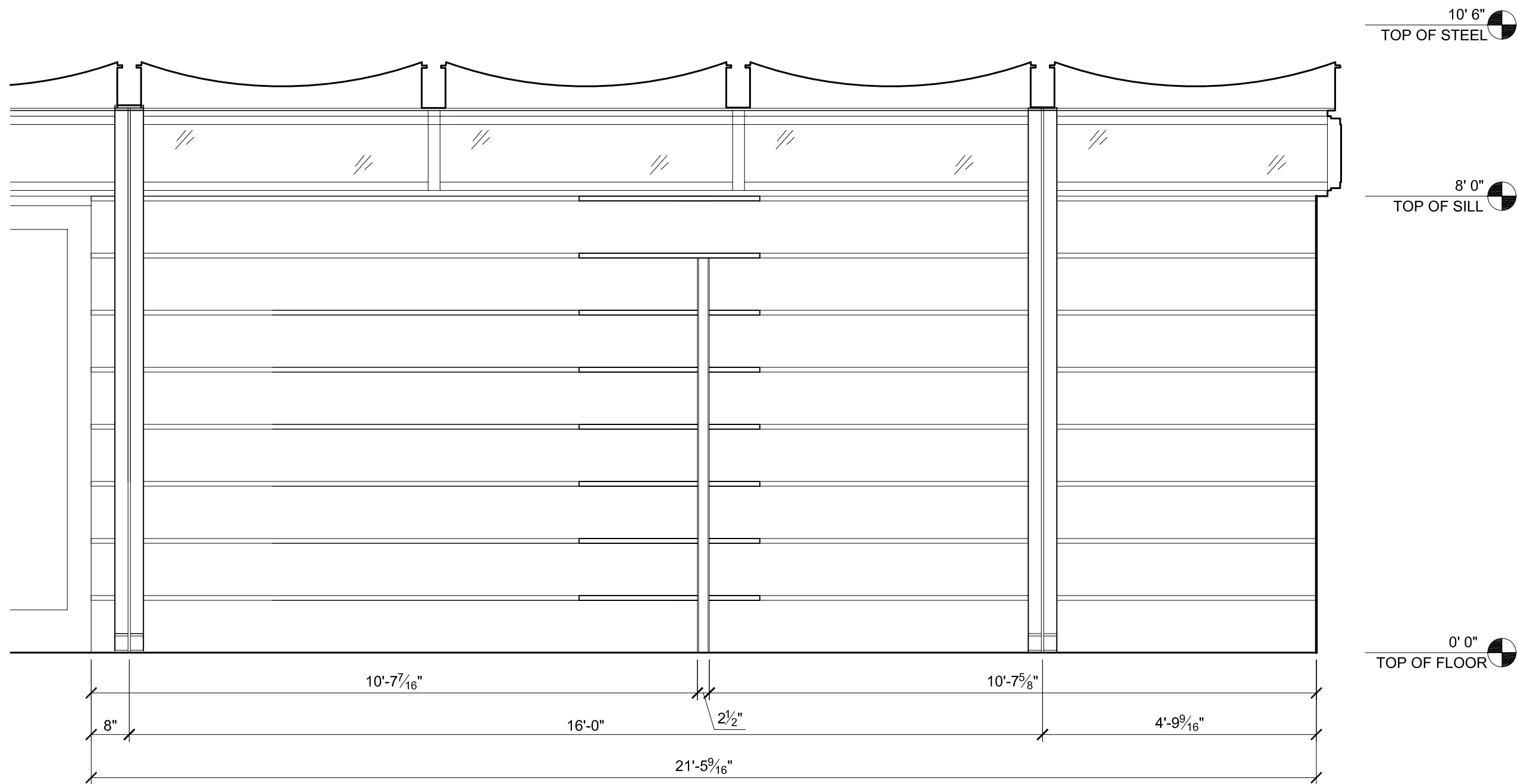
date drawn:

**07.29.07**

scale: **1/2"= 1'-0"**

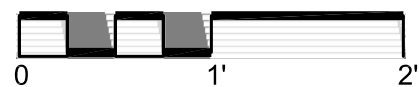
**A.10.13**

DIGITAL FABRICATED INTERIORS



A1  
A.10.14

BEDROOM - SOUTH ELEVATION



date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



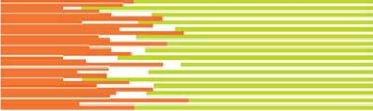
prepared by:  
**Kevin Short**  
date drawn:  
**12.03.06**



scale:  $\frac{1}{2}$ " : 1' 0"

A.10.14

BEDROOM - SOUTH ELEVATION



date

description

revision

consultants:



prepared by:

**L. Ong**

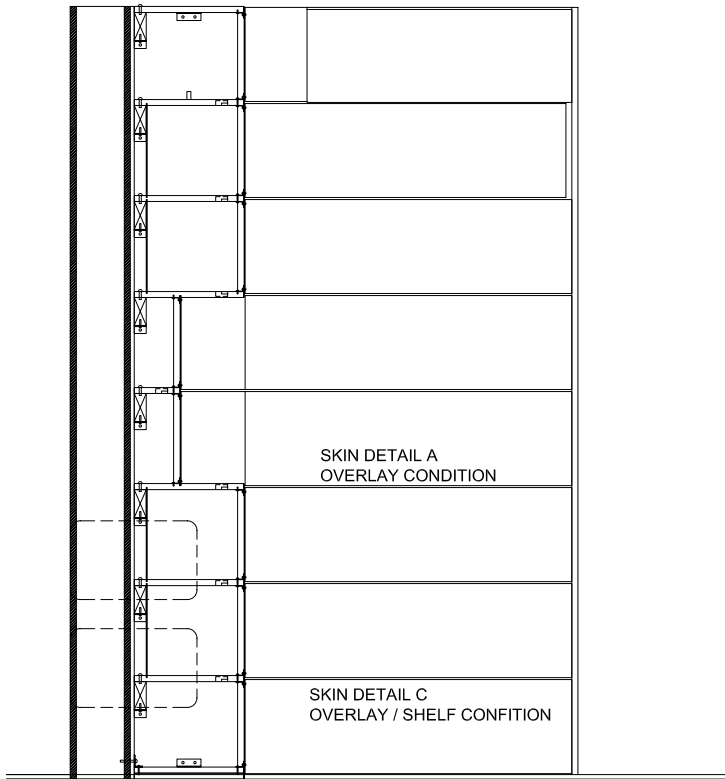
date drawn:

**07.29.07**

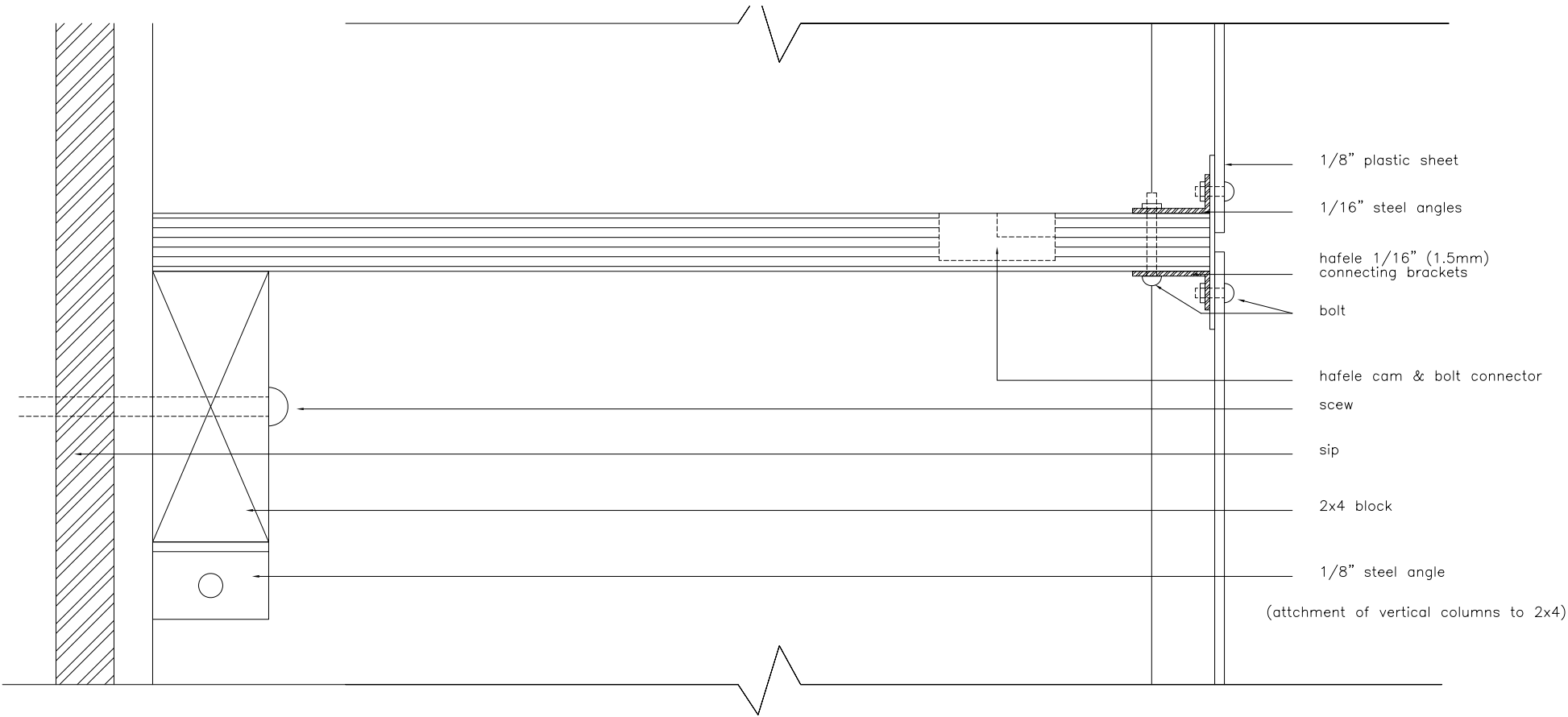
scale: **1/2"= 1'-0"**

DIGITAL FABRICATED INTERIORS

**A.10.15**

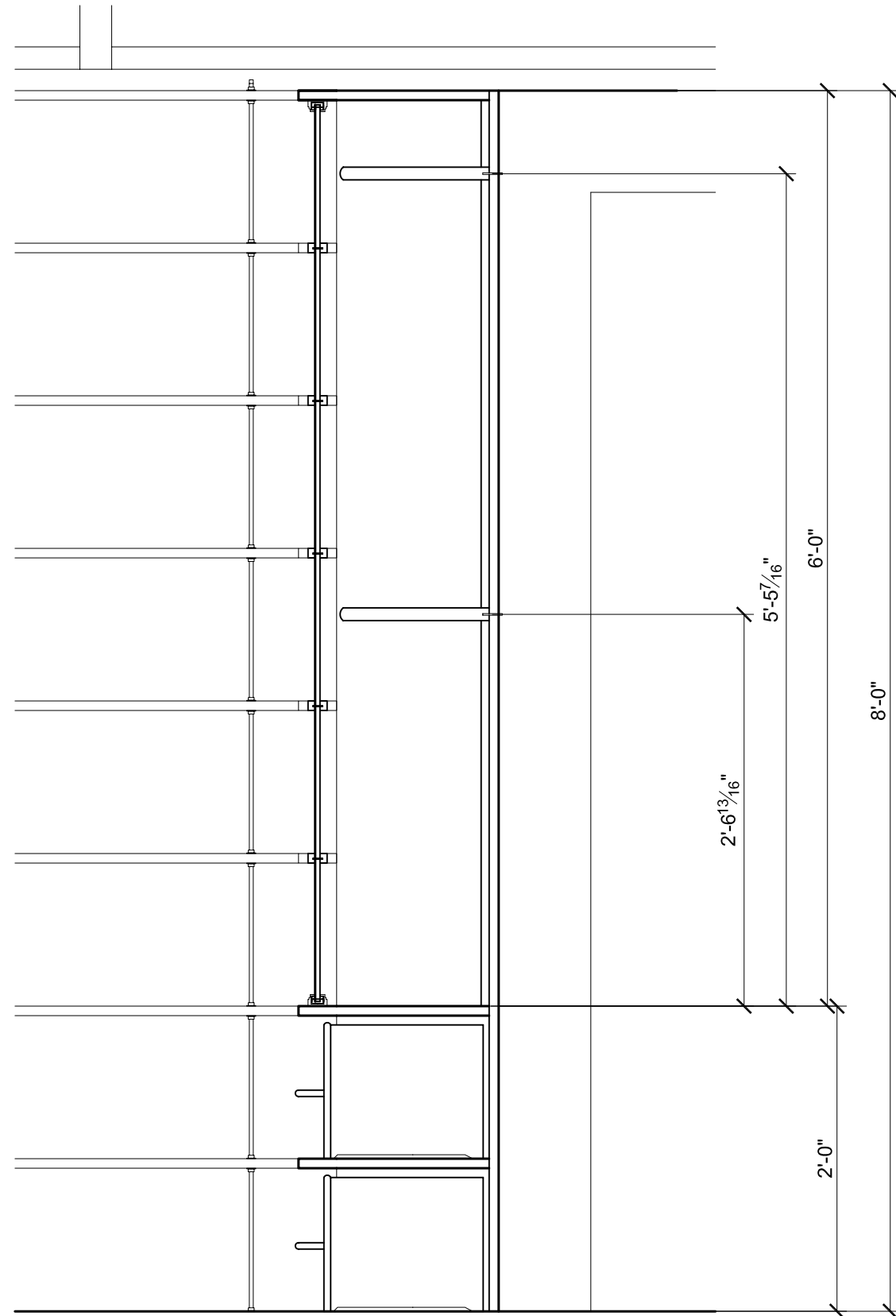


**A1** SECTION - BDRM WEST WALL  
A.10.15

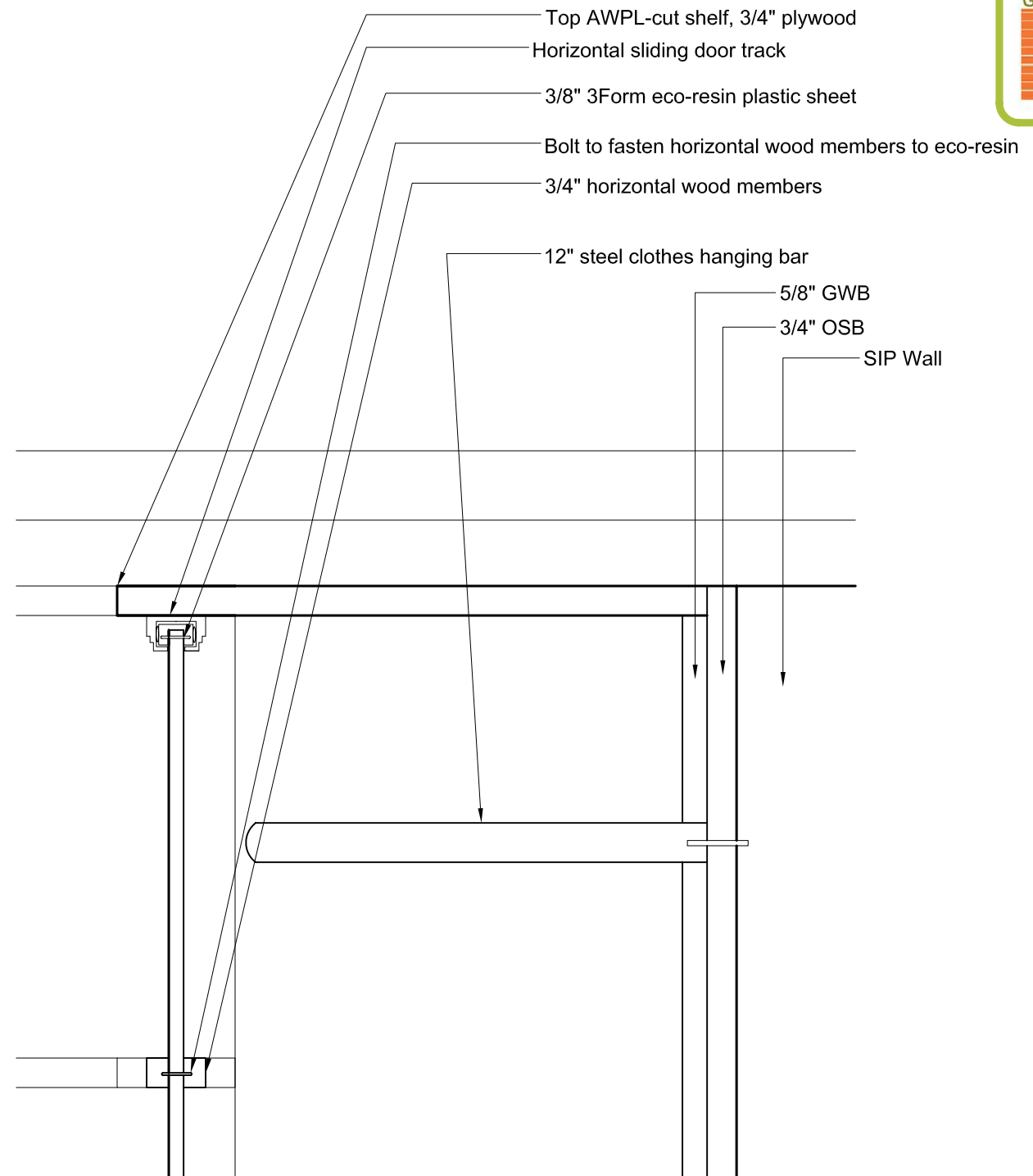


**A1** SECTION- DETAIL - BDRM WEST WALL  
A.10.15





A1 BEDROOM - CLOSET SECTION DETAIL A  
A.10.16 scale: 1" : 1' 0"



A2 BEDROOM - CLOSET SECTION DETAIL B  
A.10.16 scale: 3" : 1' 0"

date	
revision	
description	

consultants:



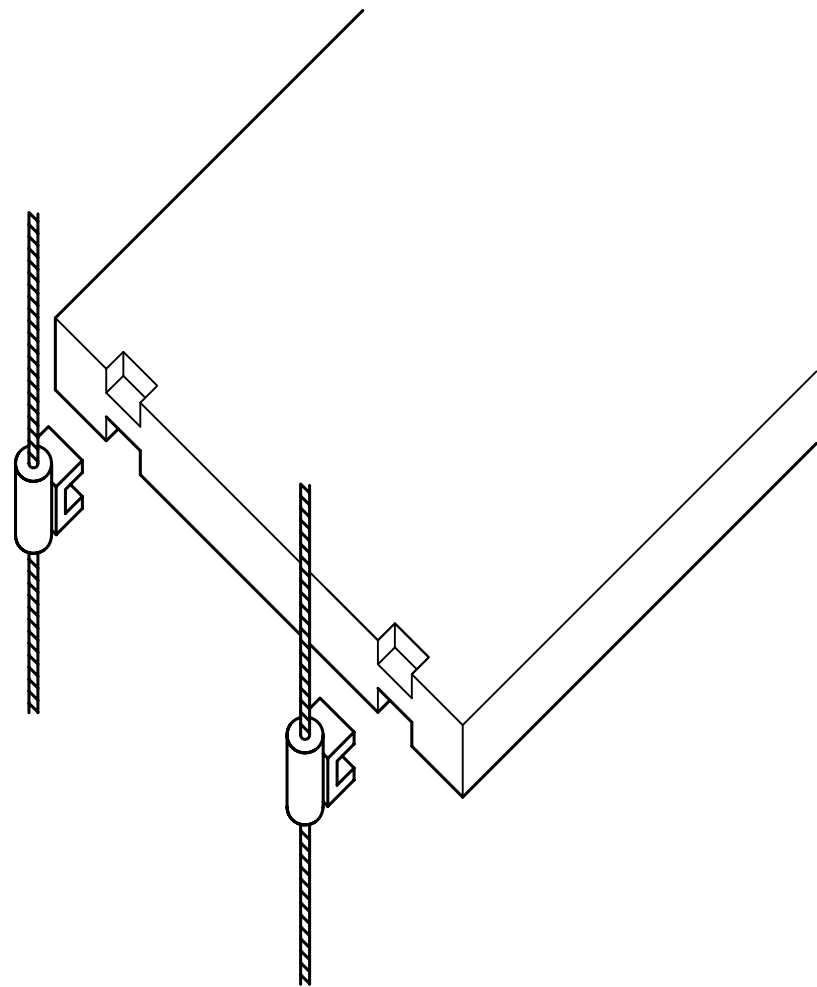
prepared by:  
**Kevin Short**  
date drawn:  
**12.03.06**



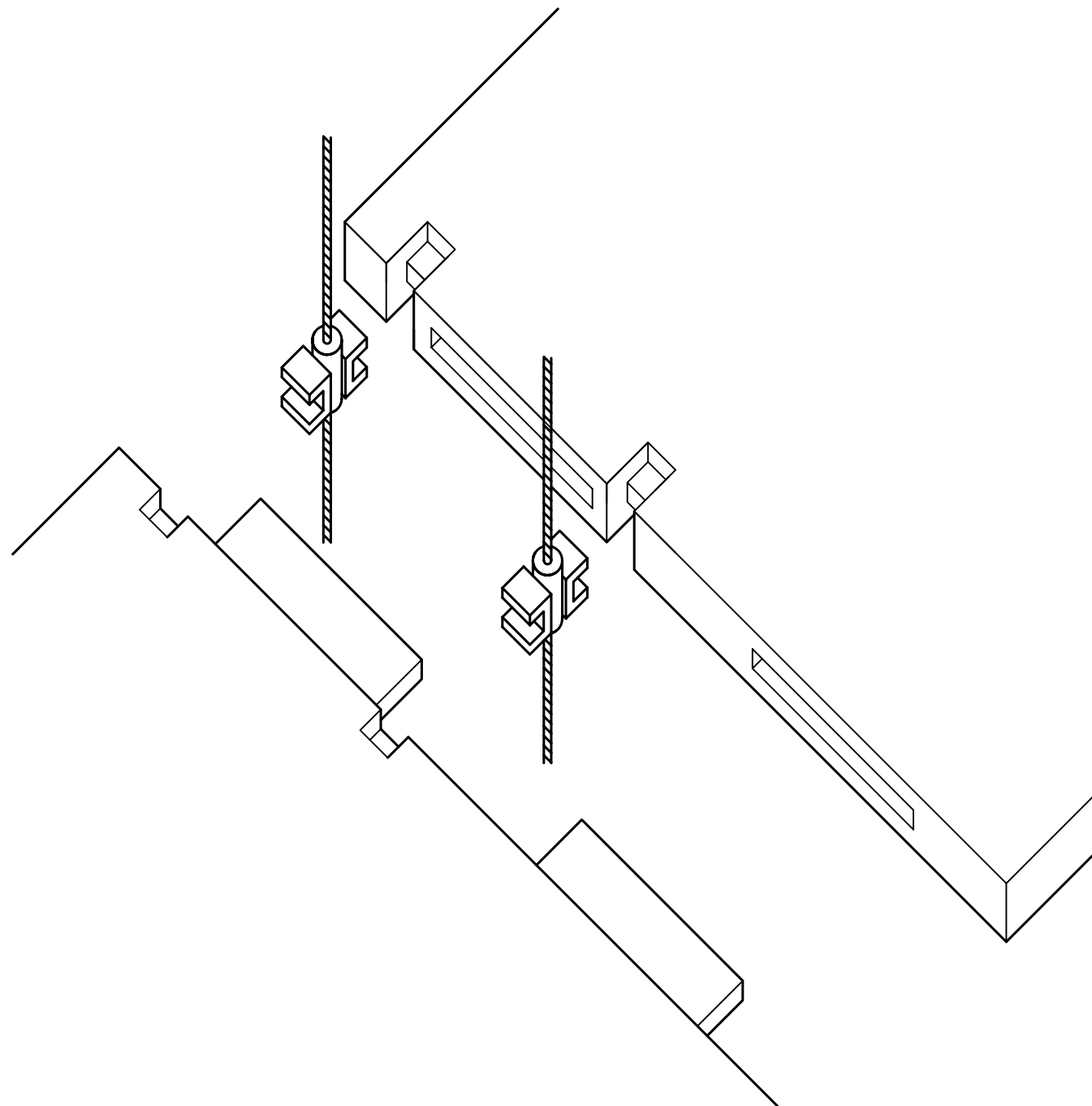
scale: **as shown**

BEDROOM - CLOSET SECTION DETAIL

A.10.16



A1 SHELF-END GRIP CONNECTION DETAIL  
A.10.17



A2 MID-SHELF GRIP CONNECTION DETAIL  
A.10.17

date	
description	
revision	

consultants:



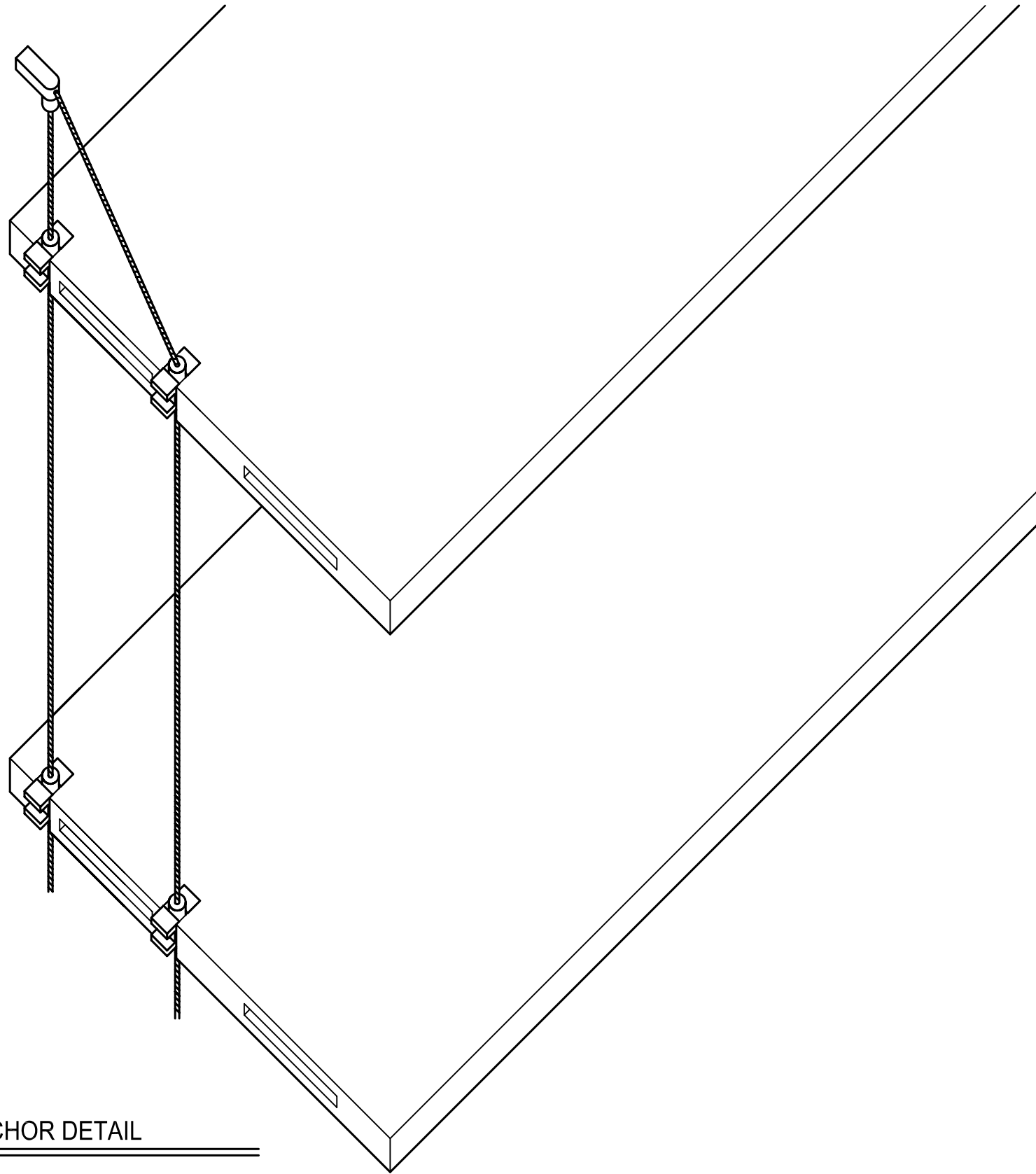
prepared by:  
**Kevin Short**  
date drawn:  
**12.03.06**



scale: **6" : 1' 0"**

BEDROOM - CABLE CONNECTION DETAIL

A.10.17



A1 WALL ANCHOR DETAIL  
A.10.18

date	description	revision

consultants:



prepared by:

Kevin Short

date drawn:

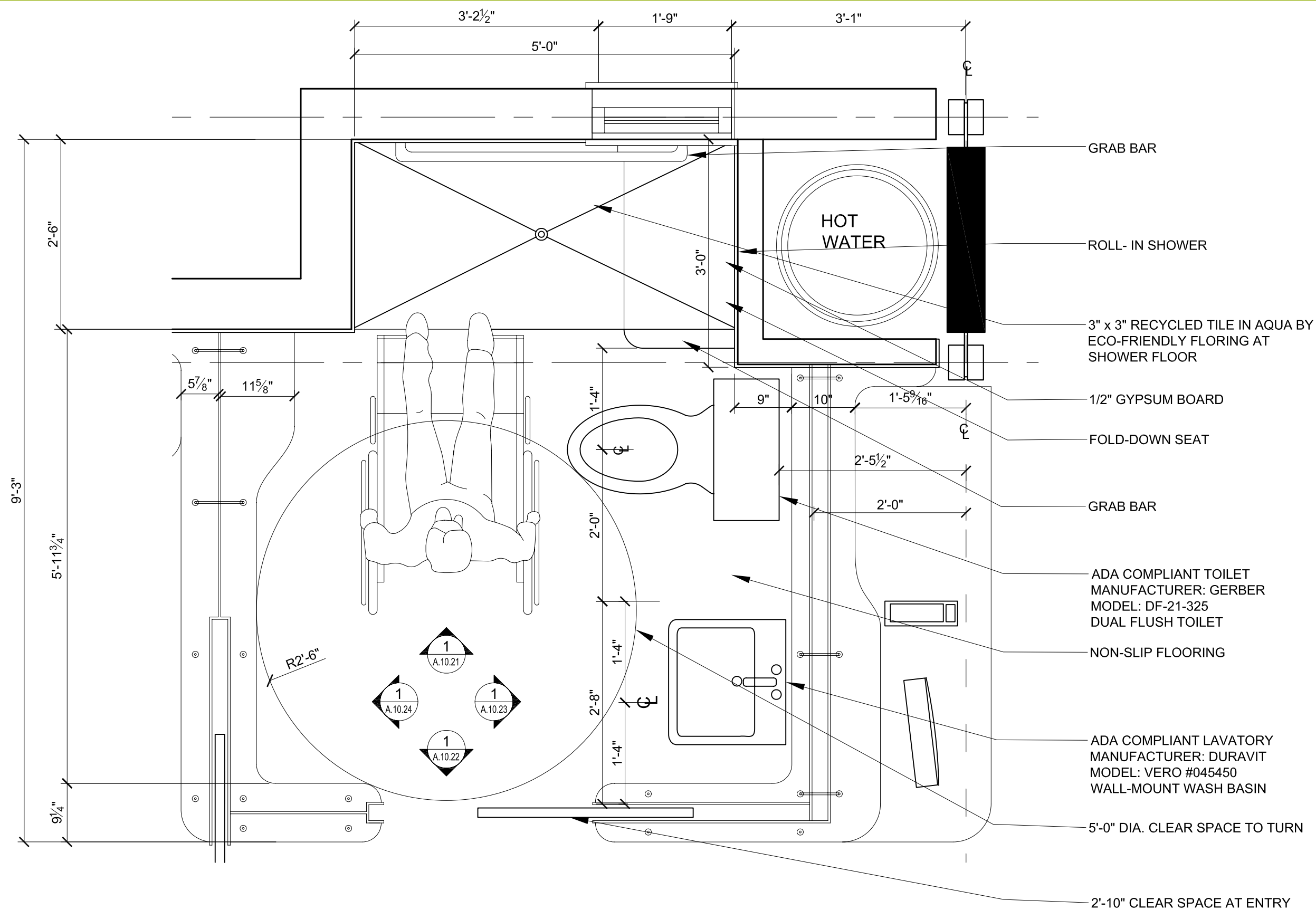
12.03.06



scale: 4" : 1' 0"

BEDROOM - WALL ANCHOR DETAIL

A.10.18



revision	description	date

*consultants:*



prepared by:  
**Sarah Shelley**

date drawn:  
**12.6.06**



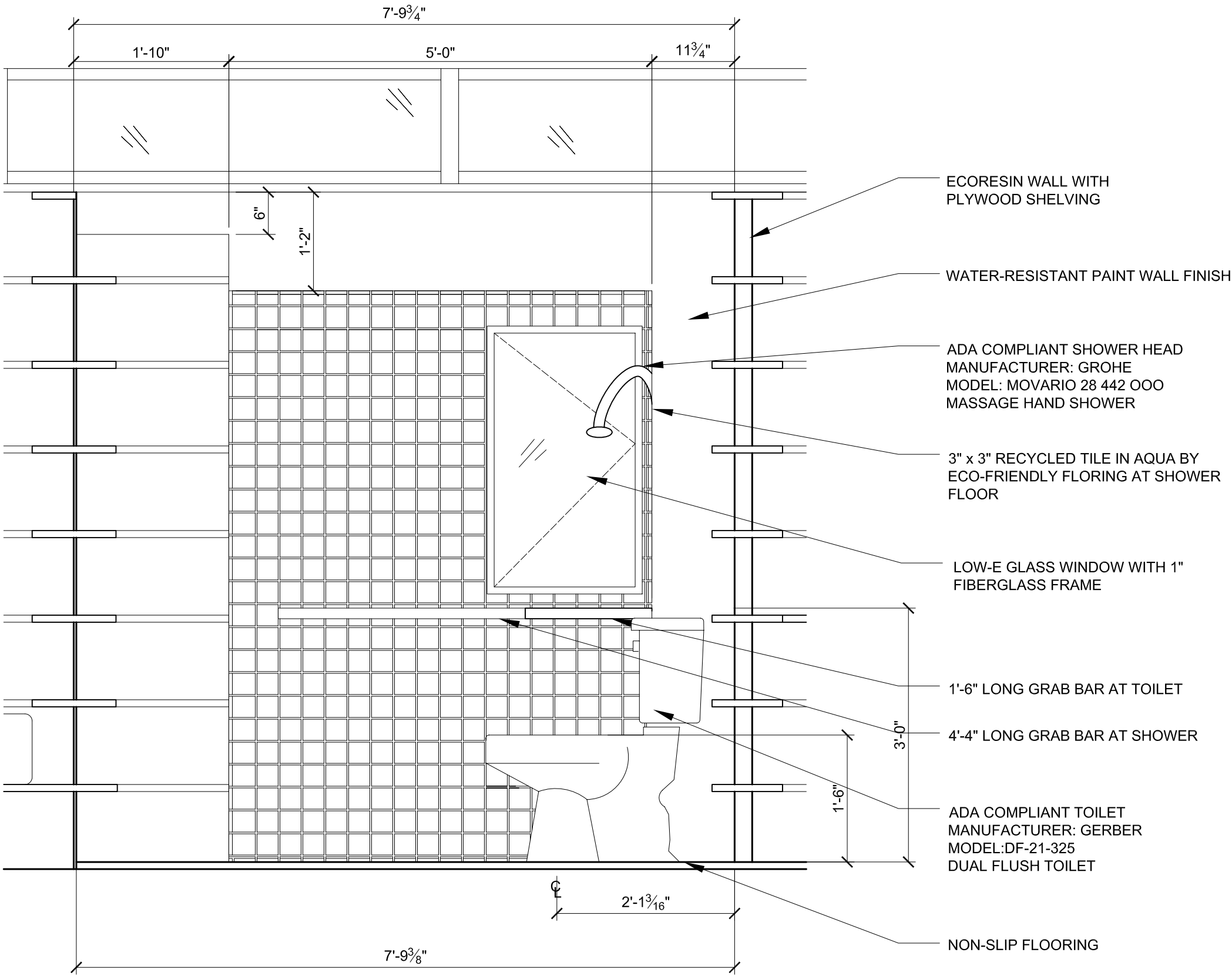
scale: **3/4" : 1' 0"**

## BATHROOM - PLAN

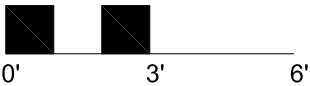
## A.10.20

8'-0" TOP OF SILL

0'-0" TOP OF FINISHED FLOOR



1 BATHROOM ELEVATION  
A.10.21



- ECORESIN WALL WITH PLYWOOD SHELVING
- WATER-RESISTANT PAINT WALL FINISH
- ADA COMPLIANT SHOWER HEAD  
MANUFACTURER: GROHE  
MODEL: MOVARIO 28 442 000  
MASSAGE HAND SHOWER
- 3" x 3" RECYCLED TILE IN AQUA BY  
ECO-FRIENDLY FLOORING AT SHOWER  
FLOOR
- LOW-E GLASS WINDOW WITH 1"  
FIBERGLASS FRAME
- 1'-6" LONG GRAB BAR AT TOILET
- 4'-4" LONG GRAB BAR AT SHOWER
- ADA COMPLIANT TOILET  
MANUFACTURER: GERBER  
MODEL: DF-21-325  
DUAL FLUSH TOILET
- NON-SLIP FLOORING

date	
revision	
description	

consultants:



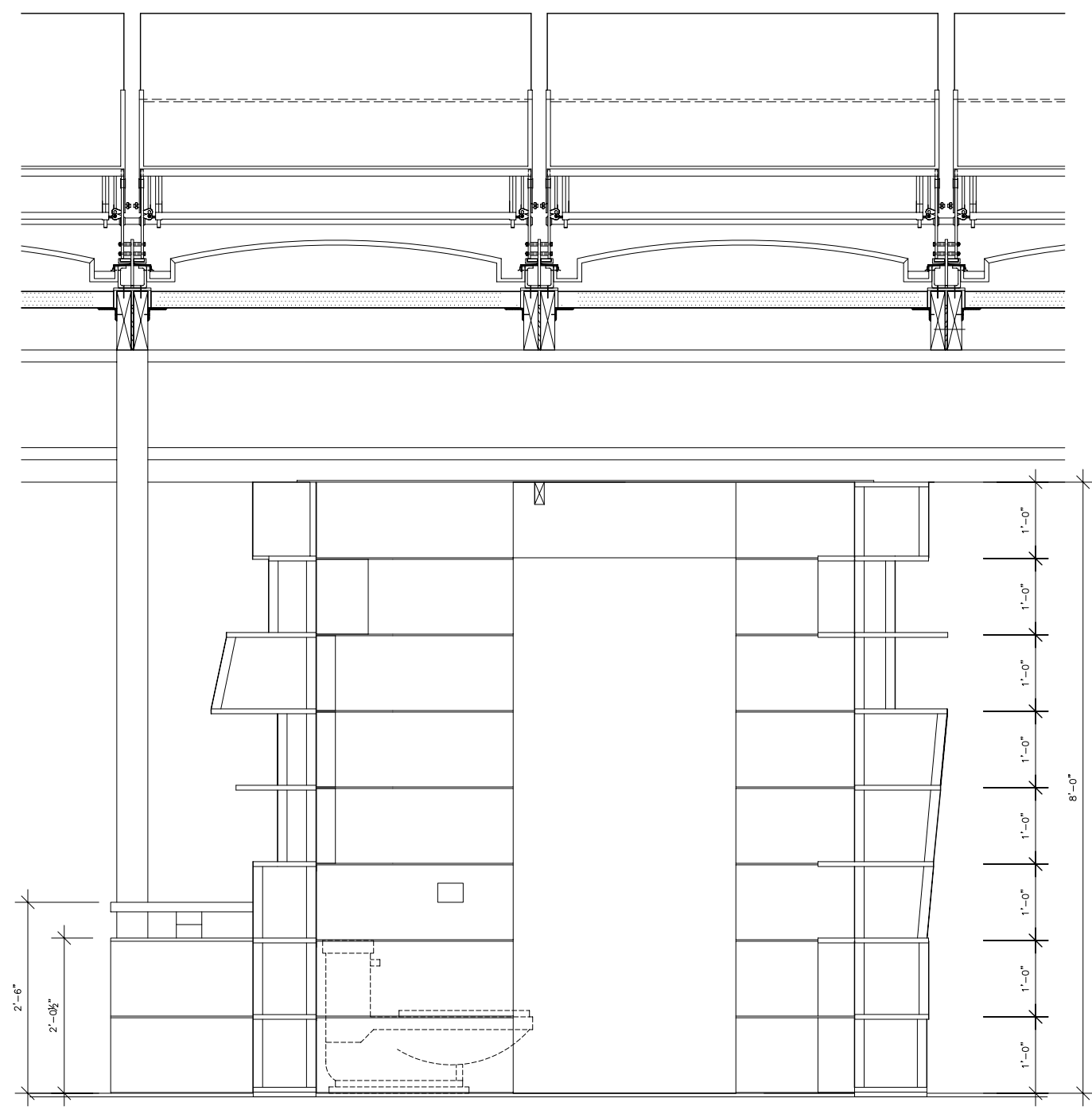
prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**



scale: **3/4" : 1' 0"**

BATHROOM - INTERIOR ELEVATIONS - NORTH





A1  
A.10.22

ELEVATION - WC SOUTH WALL

revision	description	date

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

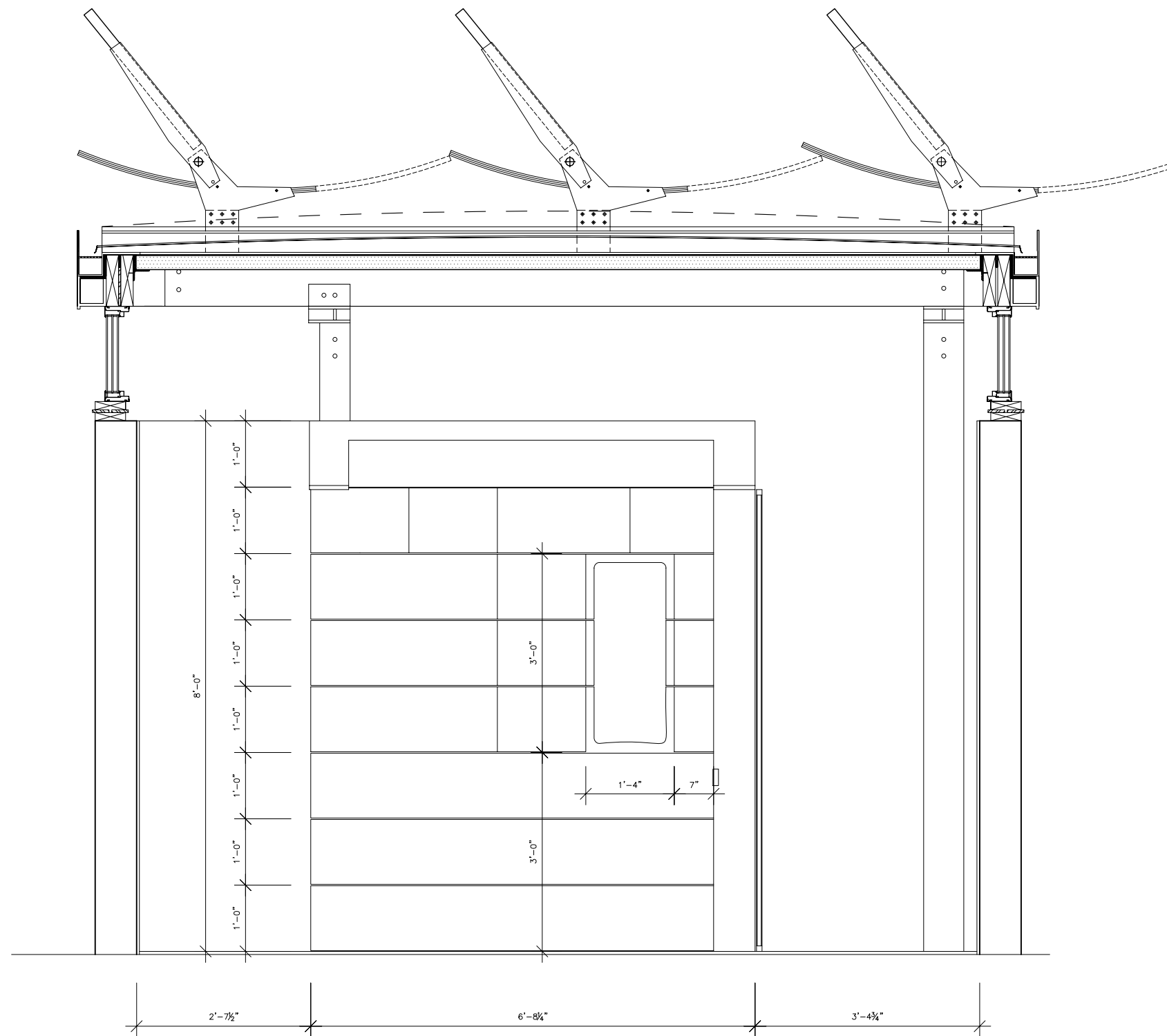
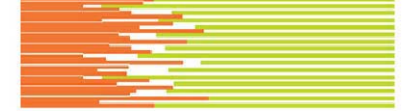


prepared by:  
**V. Deo**  
date drawn:  
**07.29.07**

scale: 1/2"= 1'-0"

A.10.22

DIGITAL FABRICATED INTERIORS



A1

## ELEVATION - WC EAST WALL

A.10.23

date

description

revision

consultants:



*prepared by:*

**Joe Jamgochian**

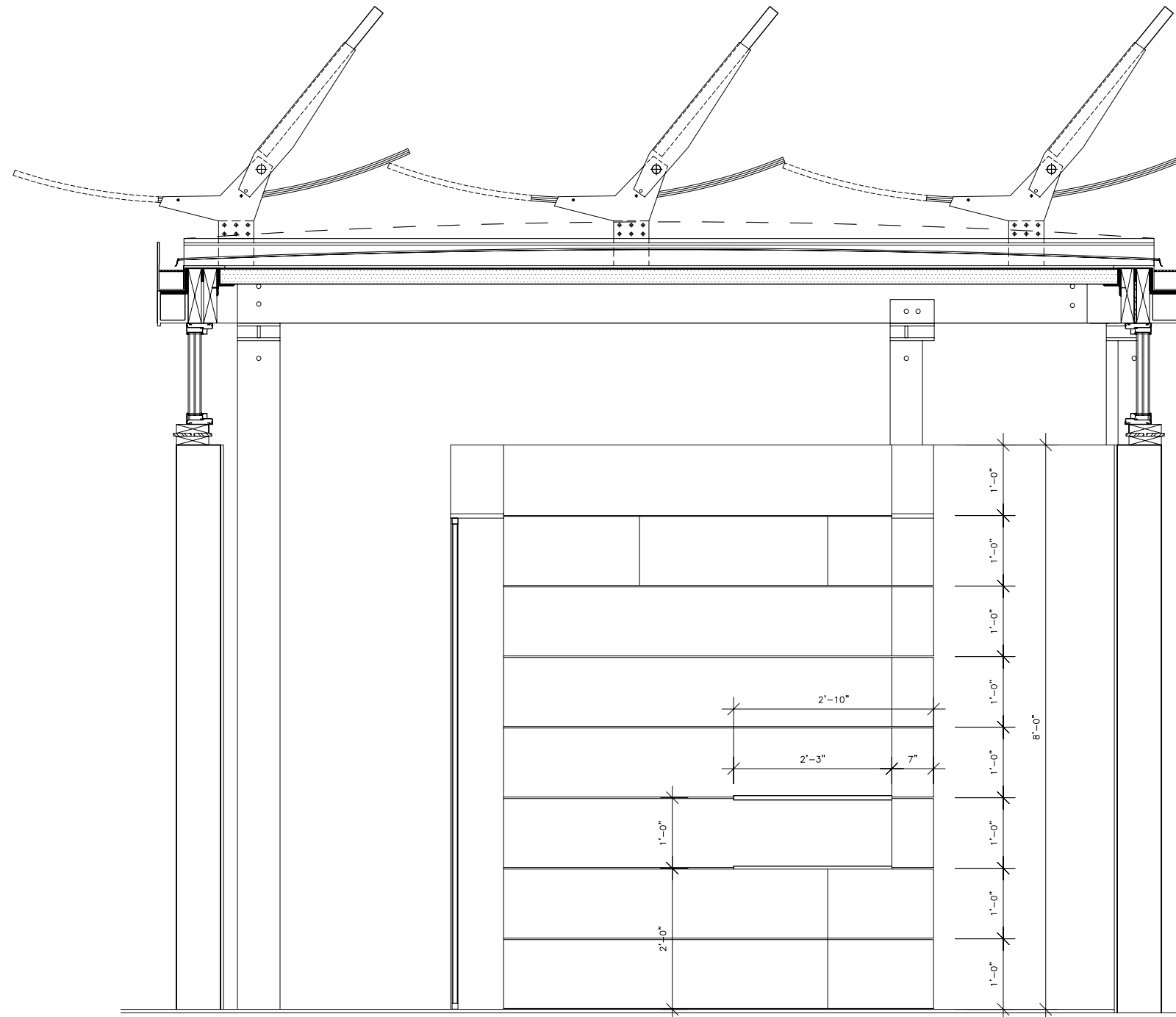
*date drawn:*

05.29.07

scale: **1/2"= 1'-0"**

## A.10.23

# DIGITAL FABRICATED INTERIORS



A1 ELEVATION - WC WEST WALL  
A.10.24

revision	description	date

consultants:



prepared by:  
**Joe Jamgochian**  
date drawn:  
**05.29.07**

scale: 1/2"= 1'-0"

A.10.24

DIGITAL FABRICATED INTERIORS

date			
revision			
description			

consultants:

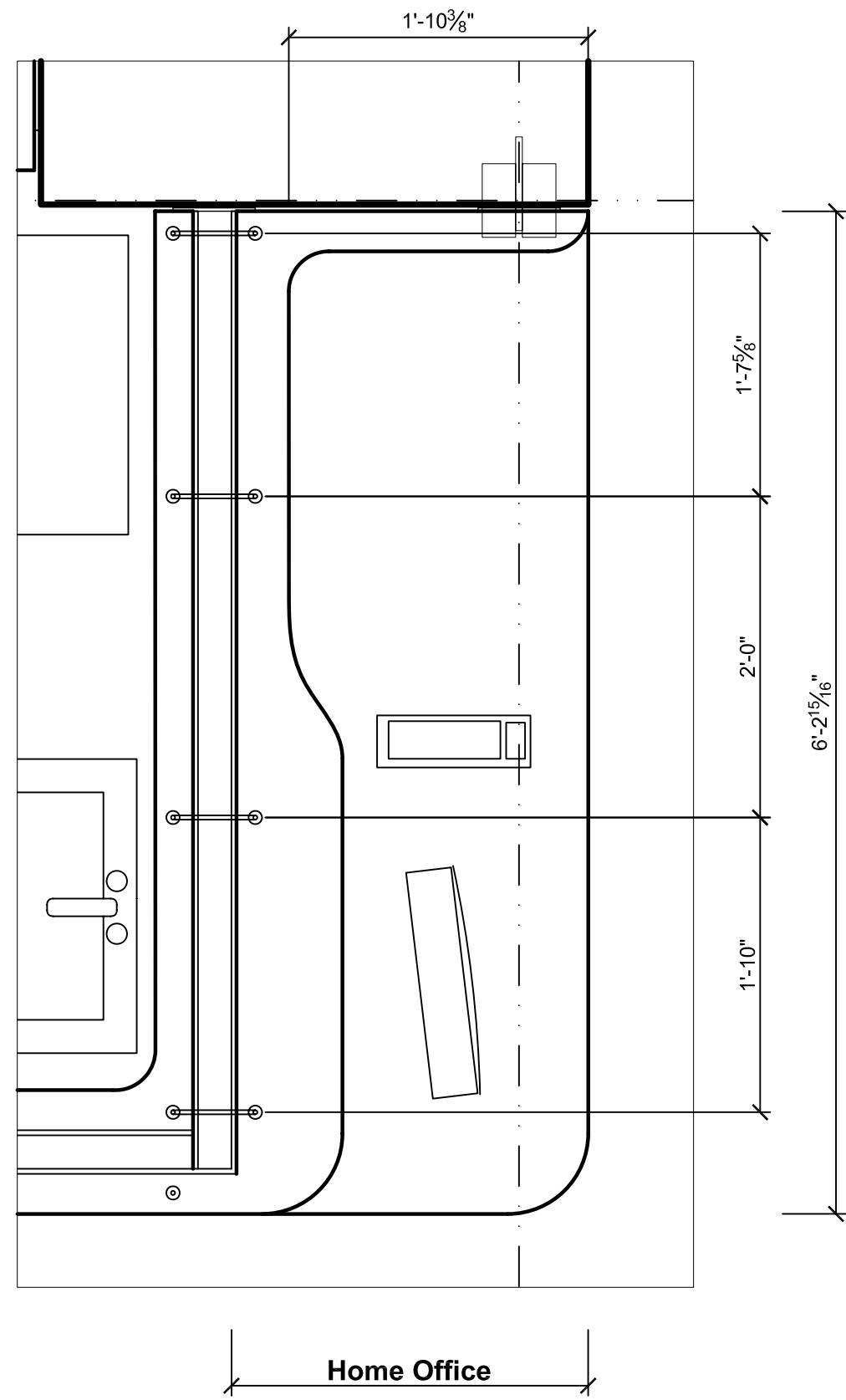


prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**

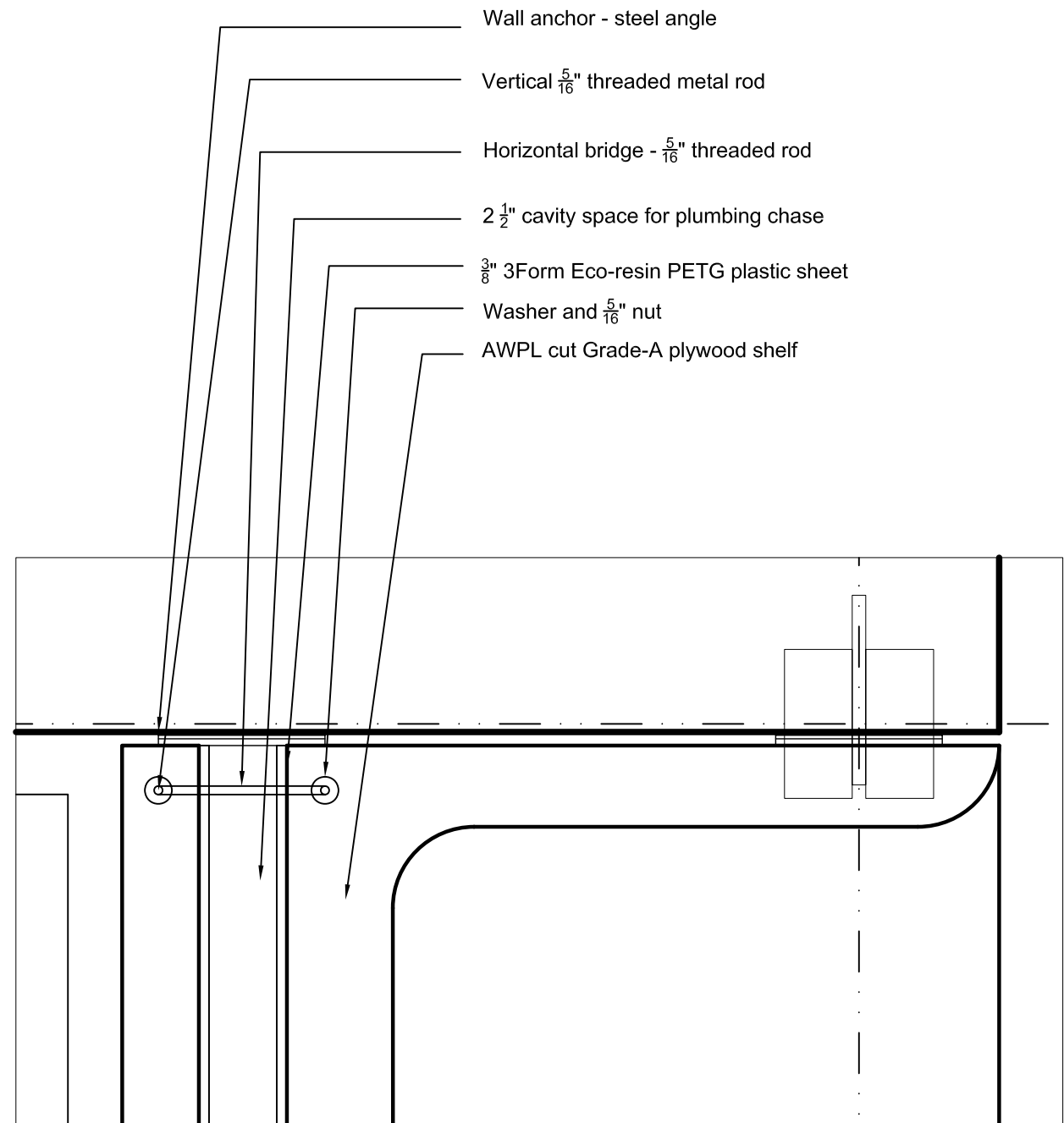


scale: **NTS**

PRODUCT	MANUFACTURER	PACKING (in pieces)	QUANTITY
Mirror, 2' x 4'		1	1
Mirror holder, for frameless mirrors: chrome polished	HAFELE	25	1 set
Pull out towel rack: chrome polished	HAFELE	1 set	1 set
Recessed pull handles: 3.5", pure white	HAFELE	25	1
Toilet compartment grab bar: 54", pre white	HAFELE	1	1
Shower grab rail (2 sided): 37.5", pure white	HAFELE	1	1
Shower Grab Rail with Hand Shower Holder (2 sided): pure white	HAFELE	1	1
Side support rail with friction/ rotation controlled toilet roll holder, pure white	HAFELE	1	1
Lift up supprt rail: 35.5", pure white	HAFELE	1	1
*Toilet roll holder for lift up support	HAFELE	1	1
Wall mounted seat with armrests, light grey and pure white	HAFELE	1	1
Towel bar: with flange: 35.5", pure white	HAFELE	1	2
Walking aid and hook rail: pure white	HAFELE	1	2
Soap dish, pure white	HAFELE	1	1
Tumbler with holder, pure white	HAFELE	1	1
Accessory container, opaque white	HAFELE	1	1
*Holder for accessory container, pure white	HAFELE	1	1
Toilet Brush Unit, pure white	HAFELE	1 set	1 set
Adjustable mirror, grip bar at right, pure white	HAFELE	1	1
Lever handle with tubular passage latch: 2.75 x 1.75", pure white	HAFELE	1 set	1 set
Door stop, jet black	HAFELE	1	5



A1 HOME OFFICE - PLAN  
A.10.30 SCALE: 1" : 1' 0"



A2 HOME OFFICE - PLAN DETAIL  
A.10.30 SCALE: 2" : 1' 0"

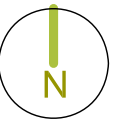
date	
revision	
description	

consultants:

|||||



prepared by:  
**Kevin Short**  
date drawn:  
**12.03.06**

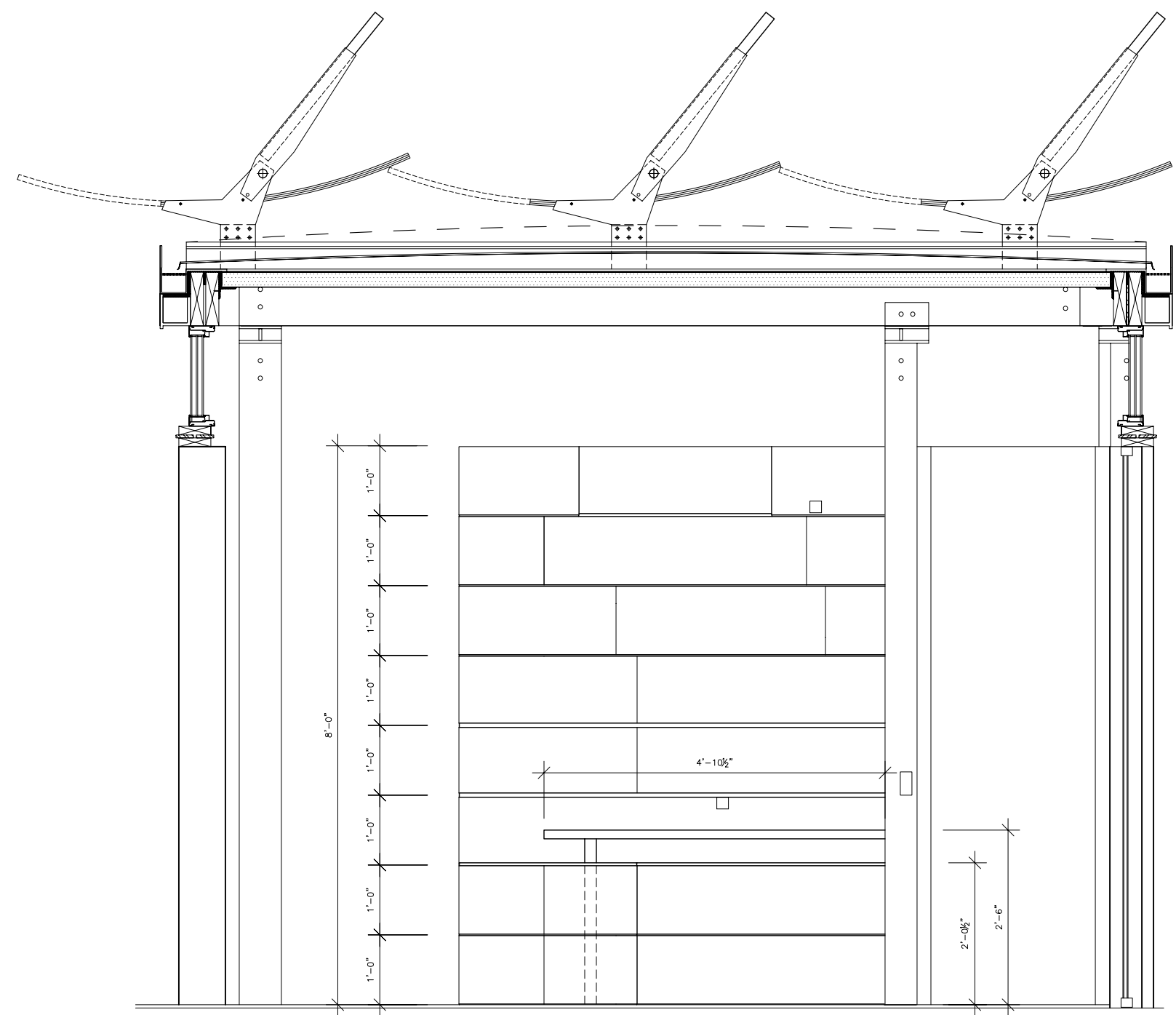


scale: **as shown**

HOME OFFICE - PLAN

A.10.30





A1 HOME OFFICE - ELEVATION  
A.10.31

date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

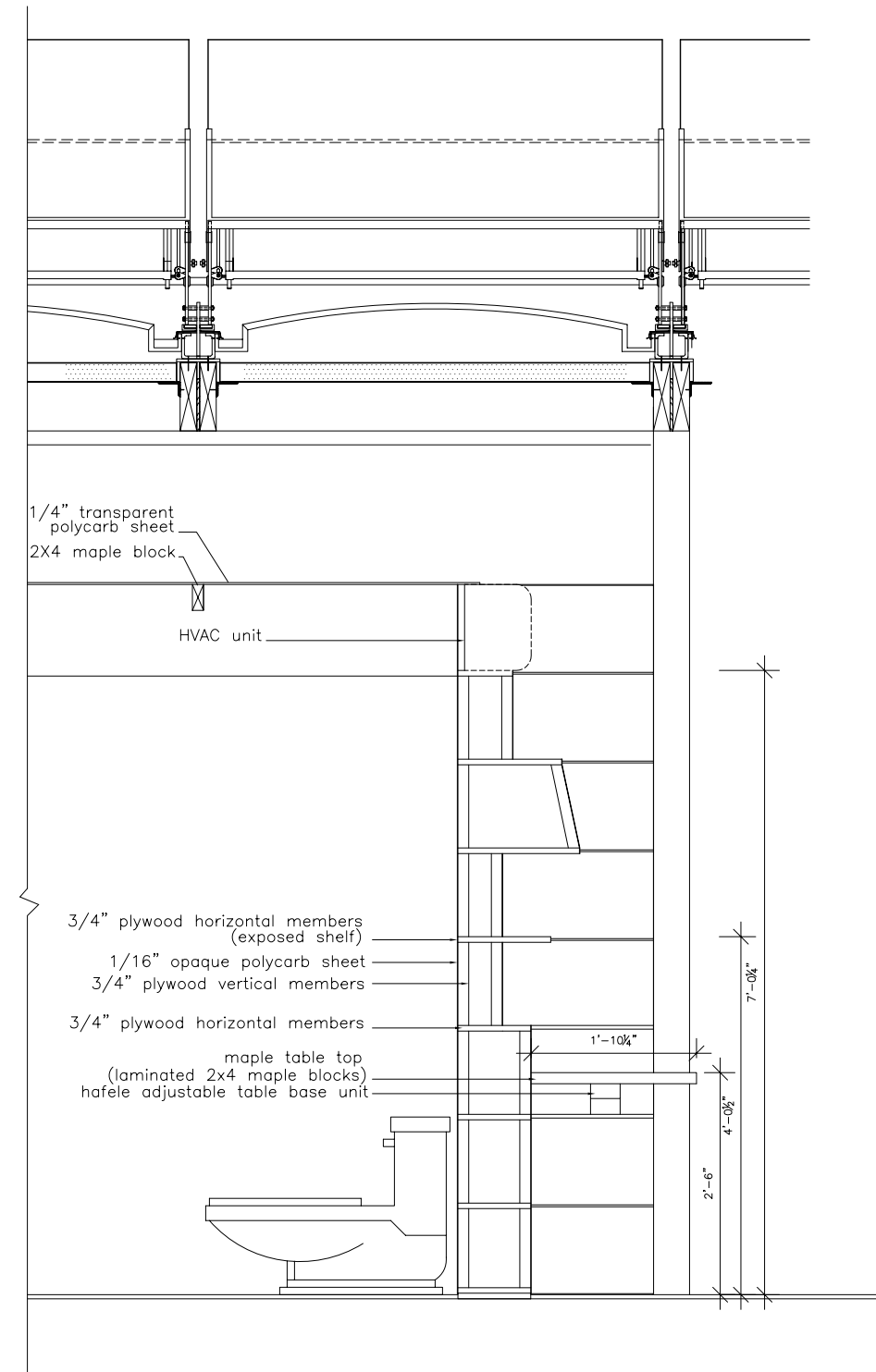
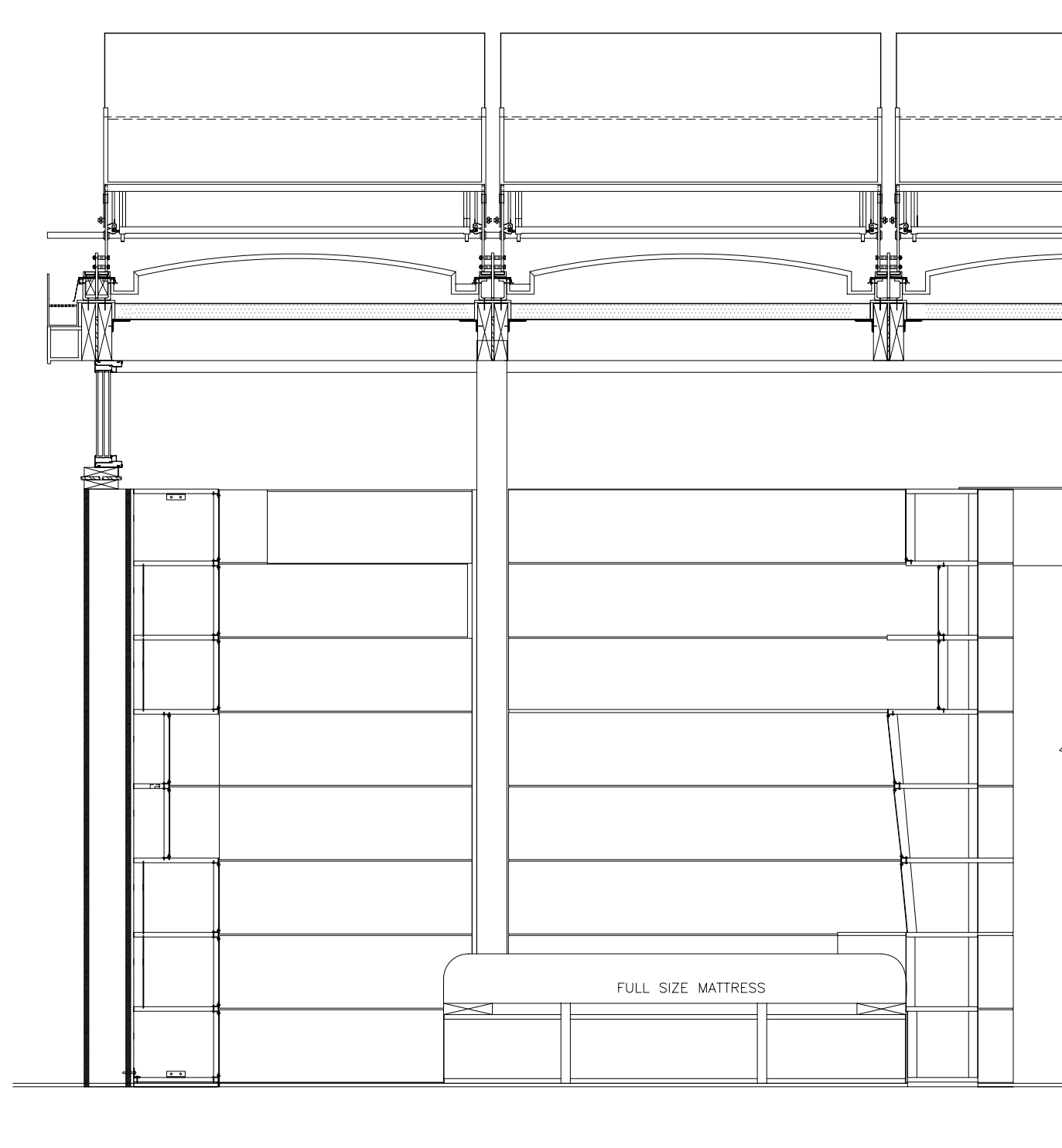


prepared by:  
**V. Deo**  
date drawn:  
**07.29.07**

scale: 1/2"= 1'-0"

A.10.31

DIGITAL FABRICATED INTERIORS



date	
description	
revision	

consultants:

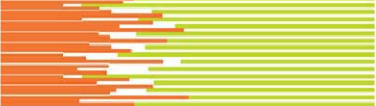


prepared by:  
**V. Deo & L. Ong**  
date drawn:  
**07.29.07**

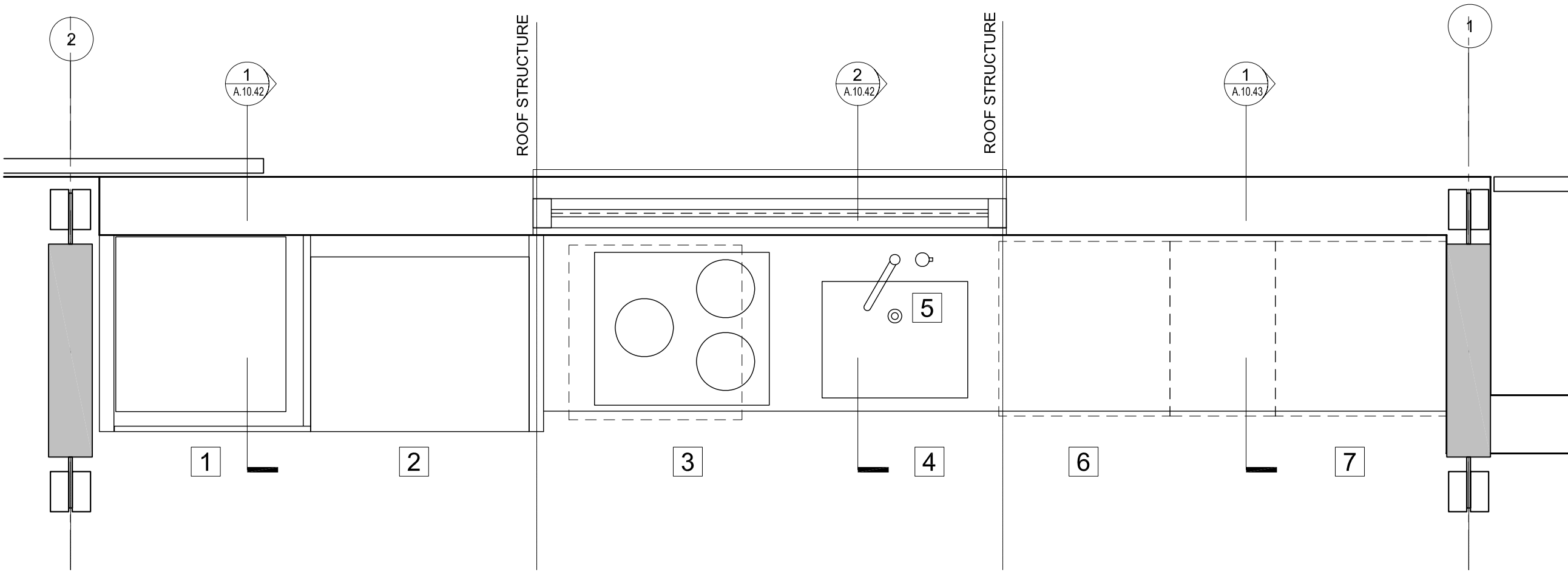
scale: 1/2"= 1'-0"

DIGITAL FABRICATED INTERIORS

A1 SECTION - HOME OFFICE / WC - EAST WALL  
A.10.32



#	APPLIANCE/ FIXTURE	MANUFACTURER	MODEL	DIMENSIONS	NOTES
1	FRONT LOADING WASHER/ DRYER UNIT	LG	WD3274RHD	33.5" X 23.625 " X 24.25"	
2	BOTTOM- FREEZER REFRIGERATOR	LIEBHERR	CI 1601	84.25" X 30 " X 23.83"	
3	FLAT SURFACE ELECTRIC INDUCTION COOKTOP	DIVA DE PROVENCE	DDP-3	2.25" X 23.56 " X 21"	
4	DROP IN SINK	ELKAY	LRAD 2219	22" X 19.5 " X 5.5"	
5	PULL-OUT SPRAY FAUCET	GROHE	ALIRA 32 999	9.12" X 7.12 " X 5.19"	
6	DISHWASHER: DISH DRAWER	FISHER AND PAYKEL	DS603FC- SINGLE	16.09" X 23.44 " X 22.44"	
7	MICROWAVE OVEN	MIELE	H4080BM	17.94" X 23.62 " X 22.12"	



date	
description	
revision	

consultants:



prepared by:  
**Jodi Bell- Quinn**  
date drawn:  
**12.6.06**

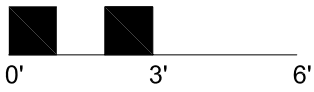


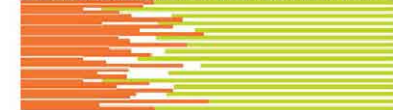
scale: **3/4" : 1' 0"**

KITCHEN - PLAN

A.10.40

1 KITCHEN - PLAN  
A.10.40





8'-0"  
TOP OF SILL

0'-0" TOP OF  
FINISHED FLOOR

CONCEALED PIVOT DOOR  
TO ENCLOSE WASHER/  
DRYER CLOSET

WOOD PANELING ON  
REFRIGERATOR TO  
MATCH CABINETRY

LOW-E GLASS WINDOW  
WITH FIBERGLASS FRAME

KIREI BOARD FINISHING  
ON ALL CABINETRY

date

description

revision

consultants:



prepared by:

**Jodi Bell- Quinn**

date drawn:

**12.6.06**



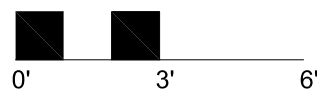
scale: **3/4" : 1' 0"**

INTERIOR ELEVATION - KITCHEN

1

KITCHEN - ELEVATION

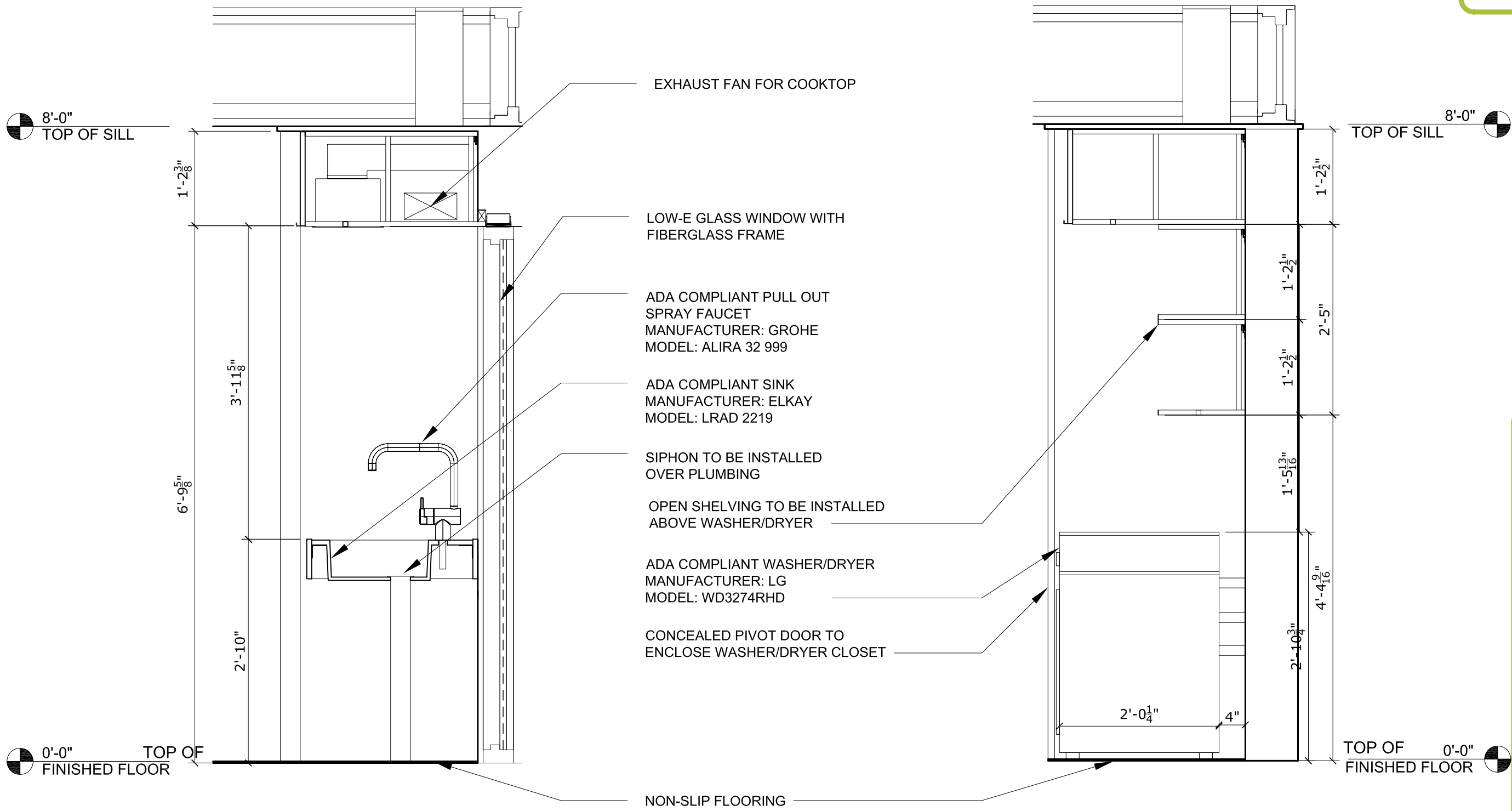
A.10.41



3" X 3" RECYCLED METAL TILE  
BACKSPLASH BY ECO FRIENDLY  
FLOORING

6" VETRAZZO COUNTERTOP

A.10.41



date	
description	
revision	

consultants:

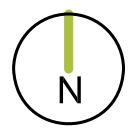
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Jodi Bell-Quinn**  
date drawn:  
**12.6.06**



scale: **3/4" : 1' 0"**

**2** KITCHEN - SECTION  
A.10.42 AT SINK

0' 3' 6'

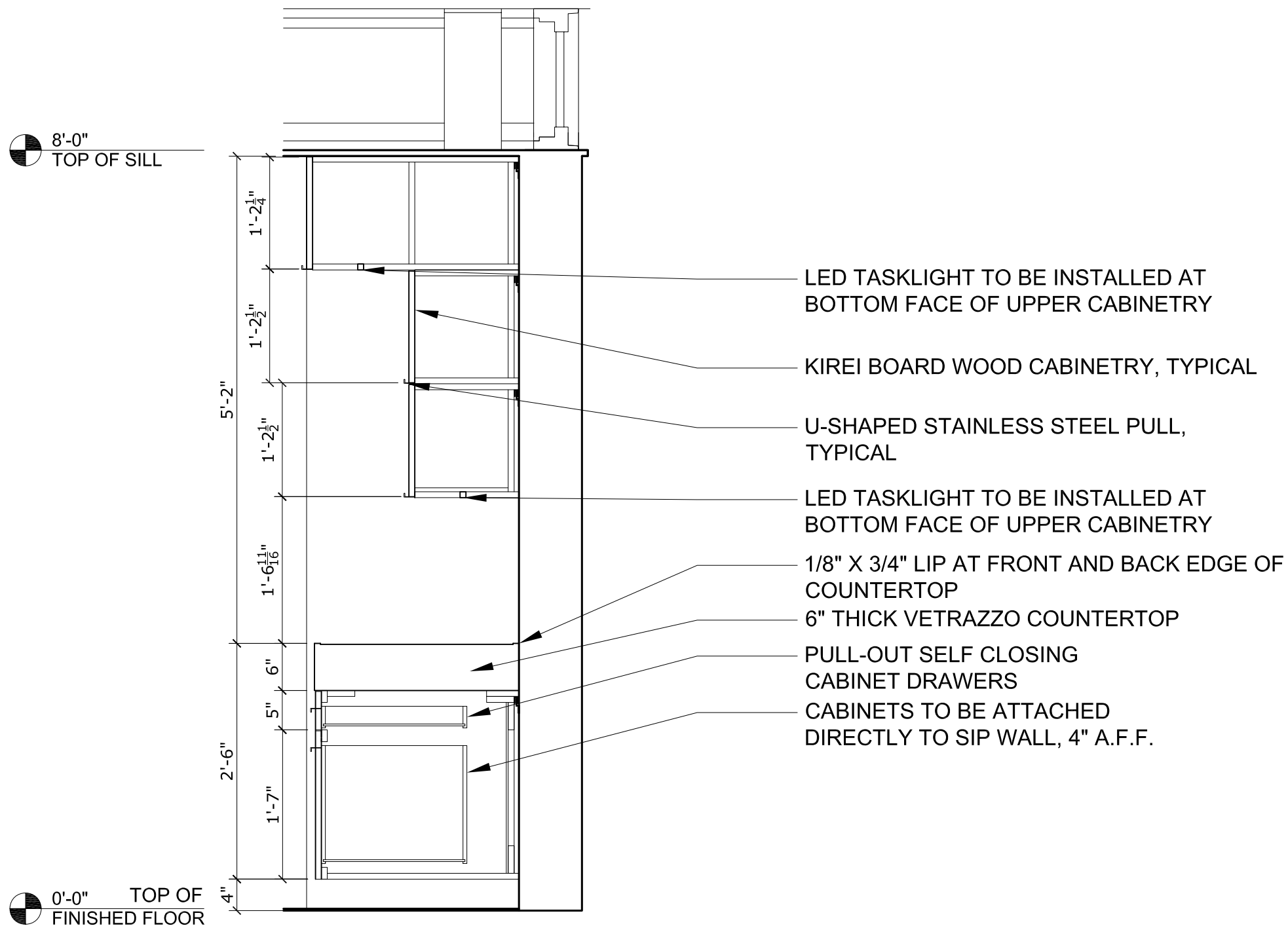
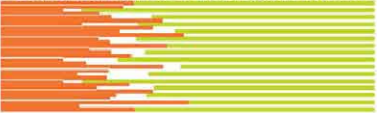
**1** KITCHEN - SECTION  
A.10.42 AT WASHER/ DRYER

0' 3' 6'

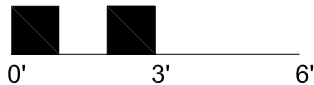
KITCHEN - SECTIONS

A.10.42





1 KITCHEN - SECTION  
A.10.43 AT CABINETS



date

description

revision

consultants:



prepared by:  
**Jodi Bell-Quinn**  
date drawn:  
**12.6.06**



scale: **3/4" : 1' 0"**

KITCHEN CABINET DETAILS

A.10.43

QUANTITY	PRODUCT	MANUFACTURER	PACKING (in pieces)
1 set of 10	stainless steel and zinc handles: 1'-0"	HAFELE	10 and 25
1 set	Solo 32 clip connector	HAFELE	100
1 set	Cabinet connector: black	HAFELE	100
1 set	Metal shelf supports: nickel plated	HAFELE	2000
1 set	Magnetic catch: black	HAFELE	50
1 set	*Screws for magnetic catch strike (2): flat head: #5 x 3/4"	HAFELE	
1set	*Screws for magnetic catch (2): pan head: #5 x 3/4"	HAFELE	
1 set	Connecting Brackets: 14 gauge: zinc-plated	HAFELE	500
1 set	Conaxi joint connector fitting: with black trim caps	HAFELE	10 sets
1 set	*Screws (varianta) for conaxi joint connector fitting: 13.5mm long	HAFELE	500
1 set	Concealed Hinges: Full Overlay: nickel plated matt	HAFELE	250
1 set	*Screws for concealed hinges: raised flat head #6 x 3/4"	HAFELE	1000
1 set	*Mounting plates for concealed hinges: face frame: 1/2" overlay	HAFELE	250
1 set	**Screws for mounting plates for concealed hinges: raised flat head #8 x 3/4"	HAFELE	1000
1 set	Pivot Hinges: press fit: 140 degree opening: black	HAFELE	200 pairs
1 set	*Screws for pivot hinges: flat head: #6 x 3/4"	HAFELE	1000
12 (4 per door)	Sliding glass door fitting: runner housing profile: aluminum	HAFELE	1
2	Sliding glass door fitting: double top guide track: aluminum	HAFELE	1
1 set	Sliding glass door fitting: runner: with plain end cap	HAFELE	10
1 set	Sliding glass door fitting: double bottom running track: aluminum	HAFELE	1
1 set	Sliding glass door fitting: spacer bracket (to aid in silicone application): black	HAFELE	2 or 10
1 set	Sliding glass door fitting: buffer: rubber	HAFELE	1 or 10
1 set	Sliding glass door fitting: glass retaining profile	HAFELE	1
1 set	Sliding glass door fitting: rubber strip: for .315" glass	HAFELE	1
1 set	Epoxy slide with fold-down bracket: black	HAFELE	15 pairs
1 set	*Screws for epoxy slides: undercut flathead: #7 X3/4"	HAFELE	1000
1 set	*Screws for epoxy slides: varianta: #5 X 5/8"	HAFELE	500
1	2 tier base cabinet oull out system: min. width = 4 1/2": chrome plated	HAFELE	1
1	Pull out door mounted waste bin: double waste bin: euro cargo 45, grey	HAFELE	1
4	Base plate kitchen drawer organizer: 21" x 24": beech	HAFELE	1
8 sets	*Triangle post to fit into base plate: beech	HAFELE	4
1 set	*Utensil divider, press-fit, short to fit into base plate: beech	HAFELE	1 set
1 set	*Knife holder set, press-fit to fit into base plate: beech	HAFELE	1 set
2	Kitchen rail system: tubular rail: 59" long: stainless steel, matt	HAFELE	1
1	*Mixer holder for kitchen rail system: chrome plated matt	HAFELE	1
1	*Cutting board holder for kitchen rail system: chrome plated matt	HAFELE	1
1	*Paper towel holder for kitchen rail system: chrome plated matt	HAFELE	1
2 set	*S hooks for kitchen rail system: nickel plated matt	HAFELE	4
1	*Spice rack for kitchen rail system: s hook attached: chrome plated matt	HAFELE	1
1	*Multi purpose shelf for kitchen rail system: s hook attached: chrome plated matt	HAFELE	1
2	Metal pull out storage rack (for inside cabinets): 21 7/8" width, 19 1/4" depth: chrome plated	HAFELE	2

date			
description			
revision			

consultants:




prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**



scale: **NTS**

date	
revision	
description	

consultants:



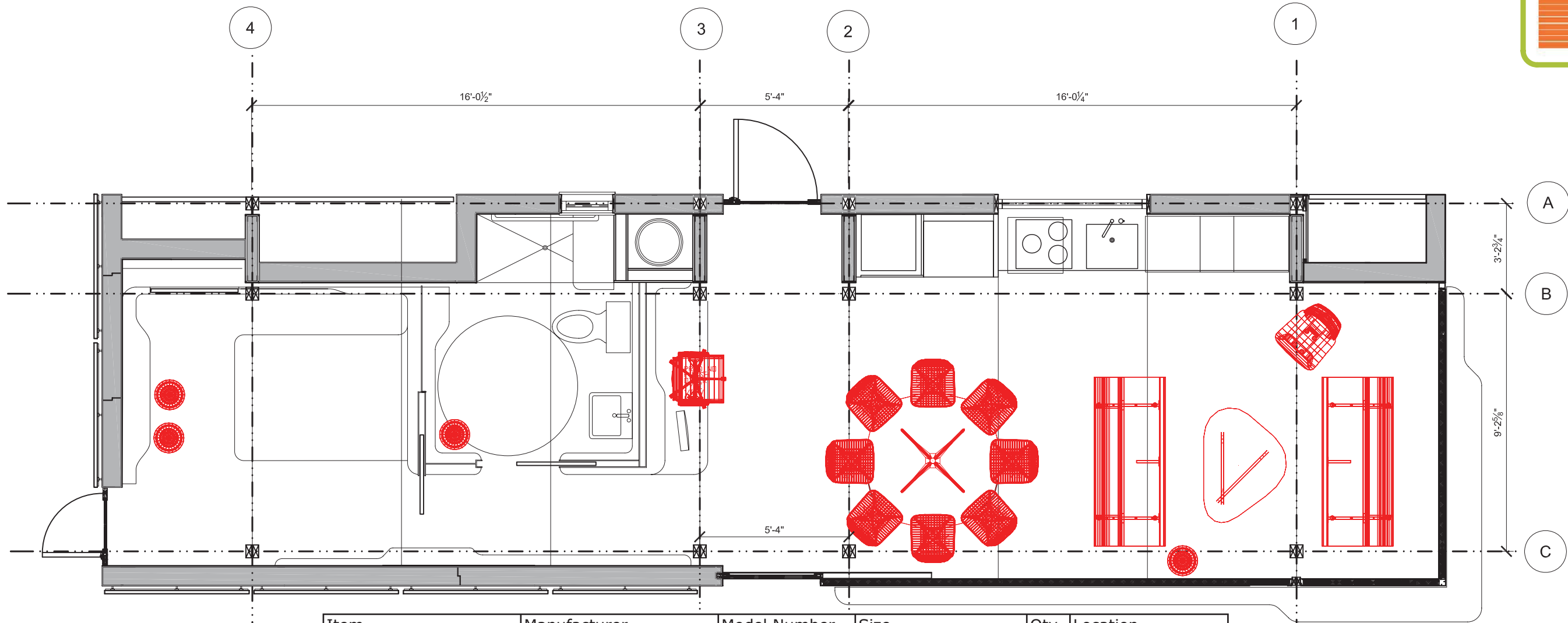
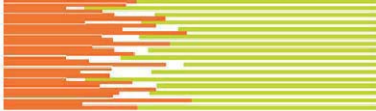
prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**



scale: **NTS**

QUANTITY	PRODUCT	MANUFACTURER	BUILT-IN	DIMENSIONS (H x W x D)	LOCATION	NOTES
1	REFRIGERATOR	LIEBHERR	Y	84.25" x 30" x 23.83"	KITCHEN	
1	WASHER/DRYER	LG	Y	33.5" x 23.625" x 24.25"	KITCHEN	
1	COOKTOP	DIVA DE PROVENCE	Y	2.25" x 23.56" x 21"	KITCHEN	
1	EXHAUST FAN		Y		KITCHEN	
1	SINK		Y	22.25" x 20.25" x 5.5"	KITCHEN	
1	FAUCET		Y		KITCHEN	
1	DISHWASHER	FISHER & PAYKEL	Y	16.09" x 23.44" x 22.44"	KITCHEN	
1	MICROWAVE OVEN	MIELE	Y	17.94" x 23.62" x 22.12"	KITCHEN	
1	COFFEE MAKER		N		KITCHEN	
1	BLENDER		N		KITCHEN	
1	LAVATORY		Y		BATHROOM	
1	FAUCET		Y		BATHROOM	
1	WASH CLOSET		Y		BATHROOM	
1	SHOWER		Y	30" x 60"	BATHROOM	
1	SHOWER HEAD		Y		BATHROOM	
1	TELEVISION		N		LIVING ROOM	
1	DVD PLAYER		N		LIVING ROOM	
1	SPEAKER SYSTEM		Y		LIVING ROOM	
1	COMPUTER		N		OFFICE	
1	ALL-IN-ONE HOME OFFICE UNIT		N		OFFICE	
1	SPEAKER SYSTEM		N		OFFICE	

KITCHEN AND BATHROOM EQUIPMENT LIST



Item	Manufacturer	Model Number	Size	Qty	Location
Eames Sofa Compact	Herman Miller		72.5"w x 30"d x 35"h	2	Living Room
Noguchi Coffee Table	Herman Miller		50"w x36"d x15.75"h	1	Living Room
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	1	Living Room
Eames Molded Plywood Lounge Chair	Herman Miller		22"w x24.25"d x26.5"h	1	Living Room
Eames Table (white)	Herman Miller		60" dia. X 30"	1	Dining Area
Eames Eiffel Tower Wire Chair with Bikini Pad	Herman Miller		19"w x21.25"d x32.75"h	8	Dining Area
Eames Aluminum Management Chair	Herman Miller		23"w x17"d x32.75"h	1	Office Area
Leaf Personal Light	Herman Miller			1	Office Area
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	2	Bedroom
Leaf Personal Light	Herman Miller			2	Bedroom
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	1	Bathroom

date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**JODI BELL-QUINN**  
date drawn:  
**01.29.07**



scale: **1/4"= 1'-0"**

**A.10.46**

FURNITURE PLAN + SCHEDULE

revision	description	date

consultants:



prepared by:

**Sarah Shelley**

date drawn:

### 12.6.06



scale: **NTS**

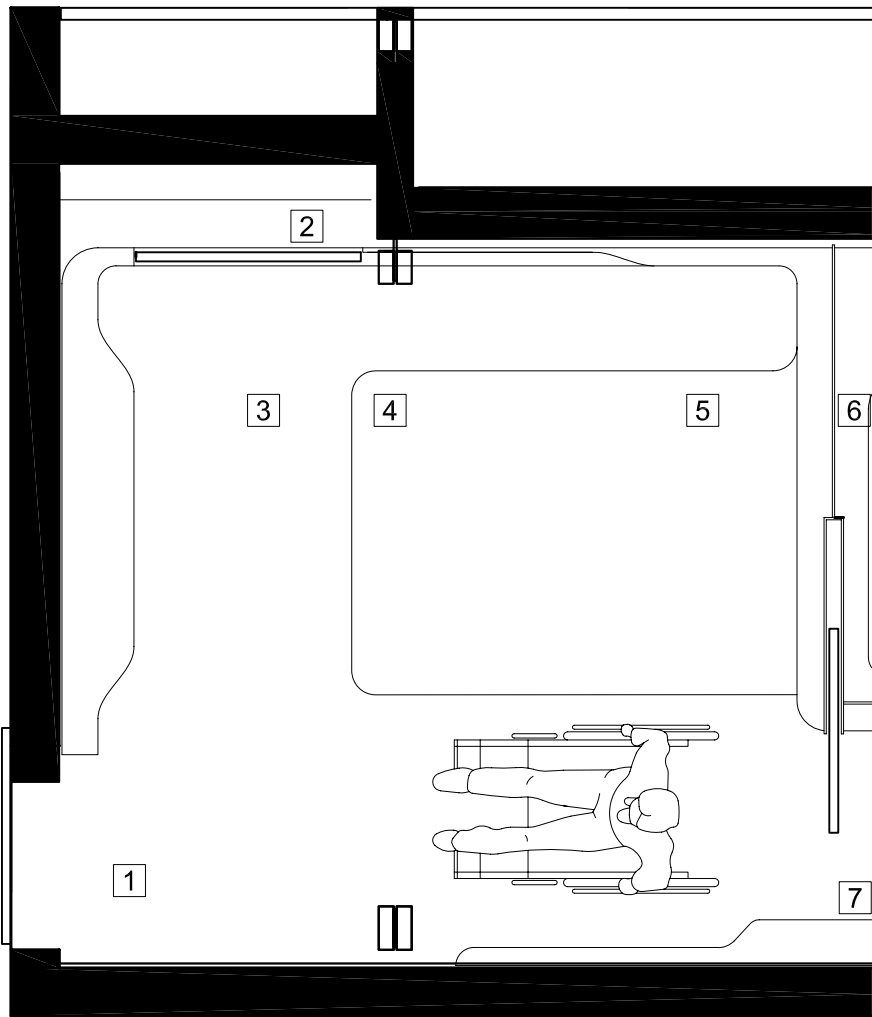
## FINISH SCHEDULE

## A.10.47

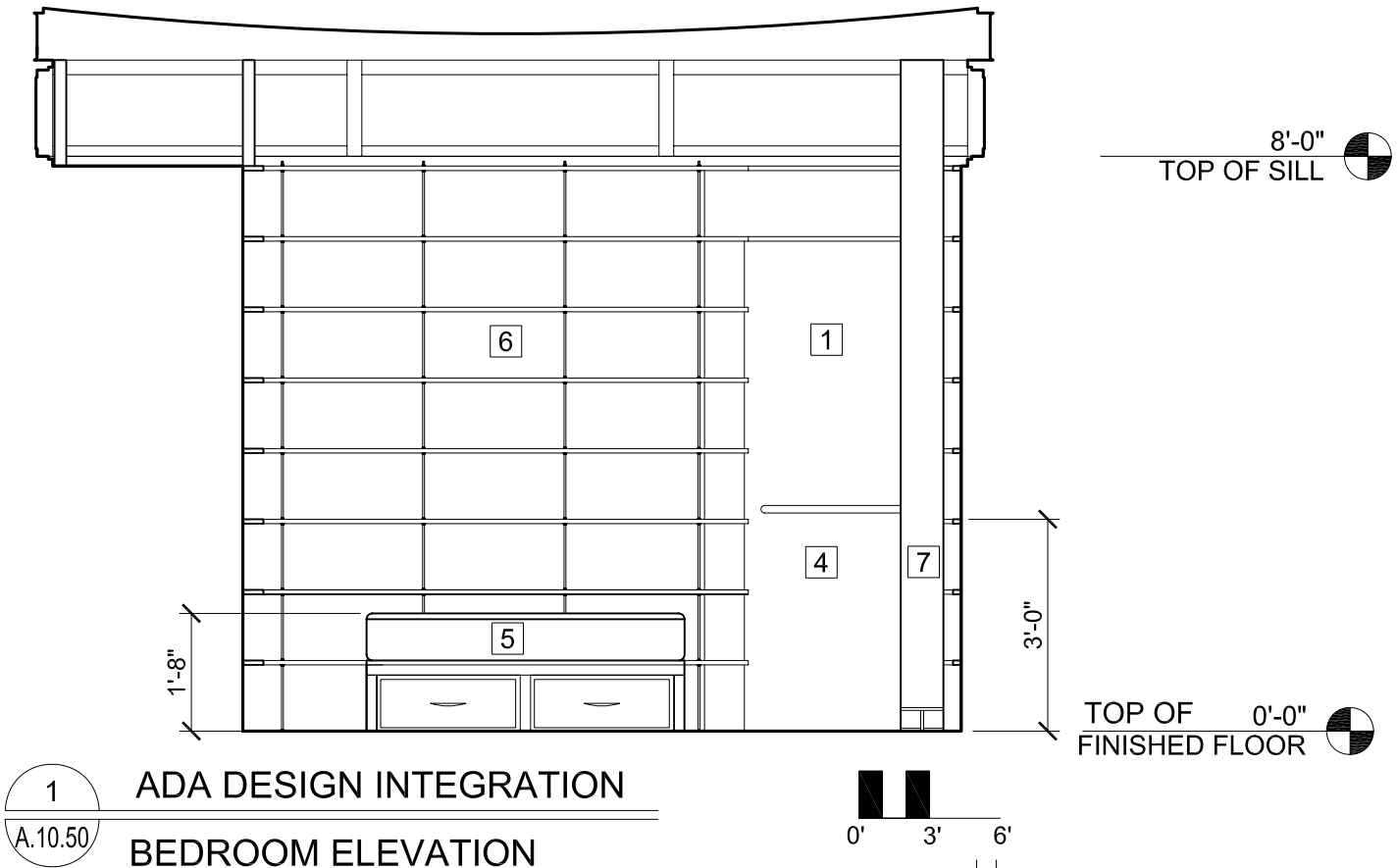
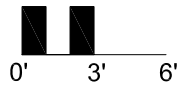
ABBR.	FINISH TYPE	LOCATION	NOTES
FF_	FLOOR FINISH		
FF_1	CORK	THROUGHOUT INTERIOR	
FF_2	RECYCLED GLASS TILE	BATHROOM	
FF_3	RECLAIMED WOOD DECKING	EXTERIOR DECK	
WF_	WALL FINISH		
WF_1	LOW VOC PAINTED GYPSUM BOARD	THROUGHOUT INTERIOR	
WF_3	RECYCLED GLASS TILE	BATHROOM, KITCHEN	
CLG_	CEILING FINISH		
CLG_1	RECYCLED GLASS TILE	BATHROOM	
CW_	CASEWORK		
CW_1	VENEERED PLYWOOD	THROUGHOUT INTERIOR	



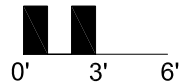
#	UNIVERSAL DESIGN FEATURE
1	2'-10" CLEAR OPENING AT ALL DOORS
2	HANDICAP ACCESSIBLE CLOSET ROD AND SHELVES
3	HANDICAP ACCESSIBLE SHLEIVING BETWEEN 1'-0" AND 4'-0"
4	3'-0" WIDE ACESIBLE SPACE
5	ACCESSIBLE PLATFORM BED
6	LED NIGHTTIME LIGHTING AROUND PERIMETER
7	SHELVING AT 3'-0" HEIGHT TO SERVE AS GRAB BAR



3 ADA DESIGN INTEGRATION  
A.10.50 BEDROOM PLAN



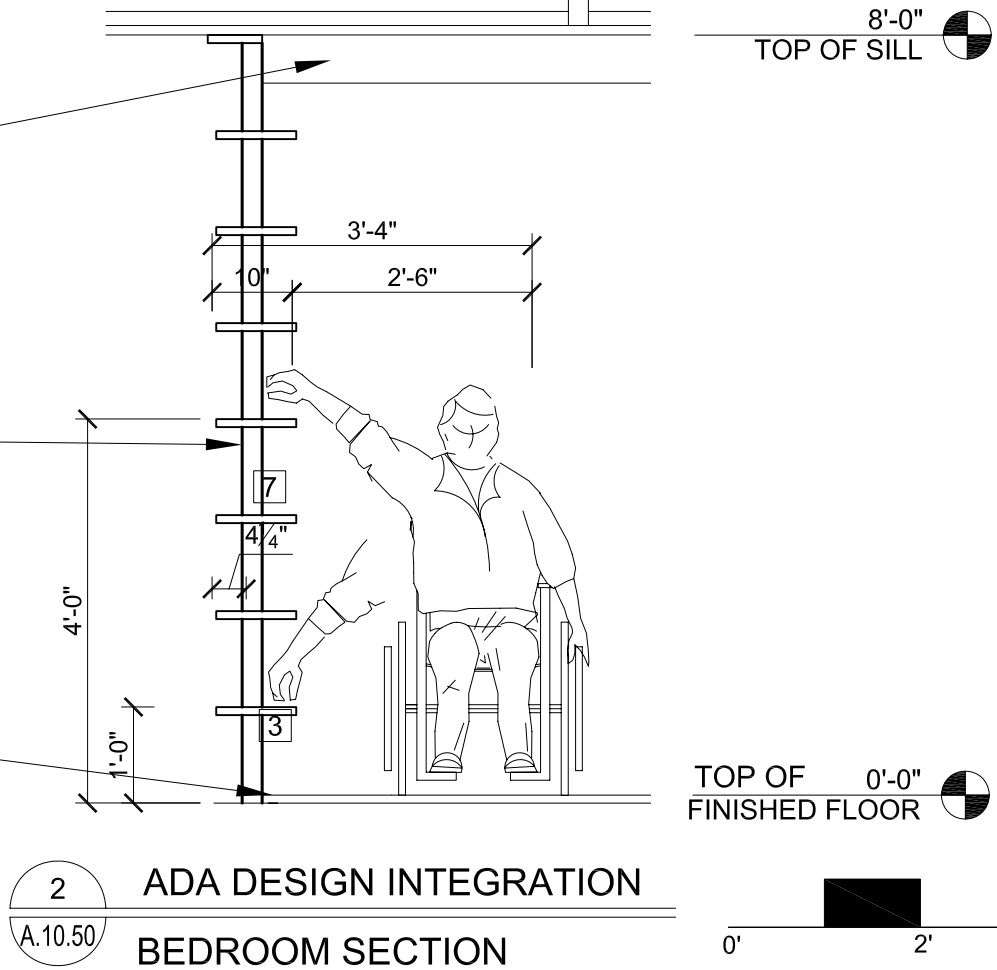
1 ADA DESIGN INTEGRATION  
A.10.50 BEDROOM ELEVATION



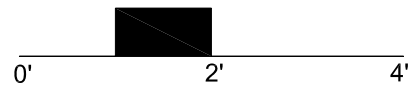
WATER-RESISTANT  
PAINT WALL FINISH

ECORESIN WALL WITH  
PLYWOOD SHELVING

NON-SLIP FLOORING



2 ADA DESIGN INTEGRATION  
A.10.50 BEDROOM SECTION



date	
description	
revision	

consultants:



prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**

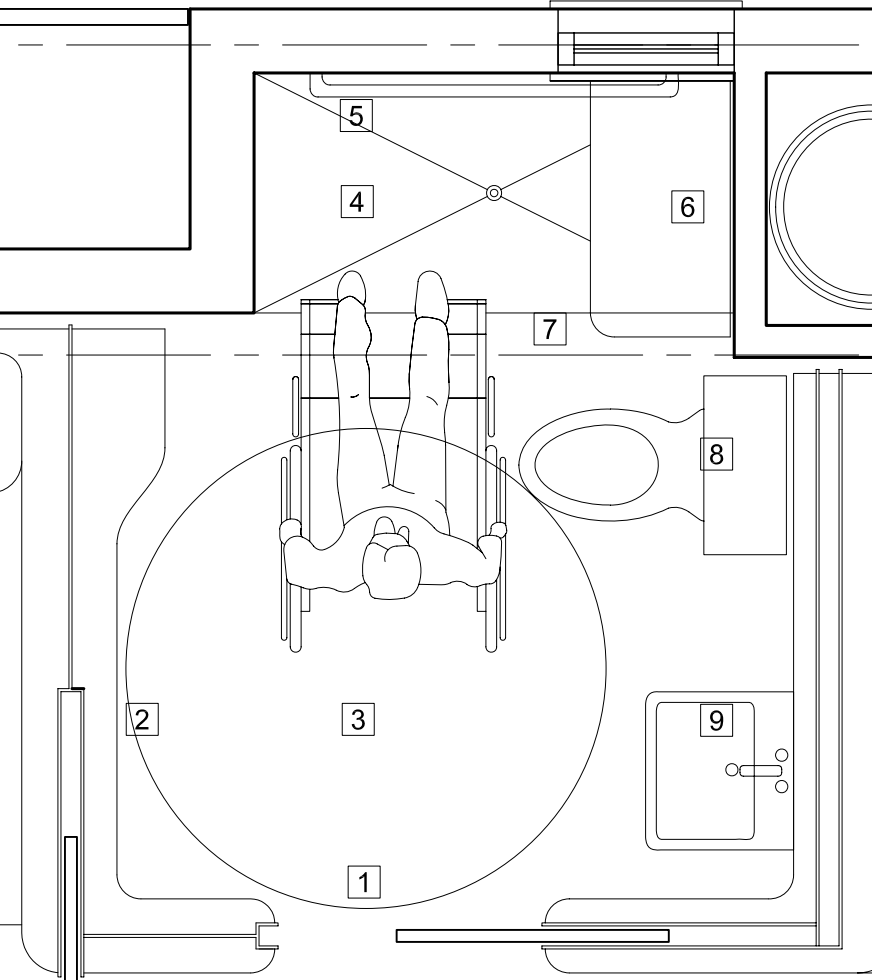


scale: as indicated

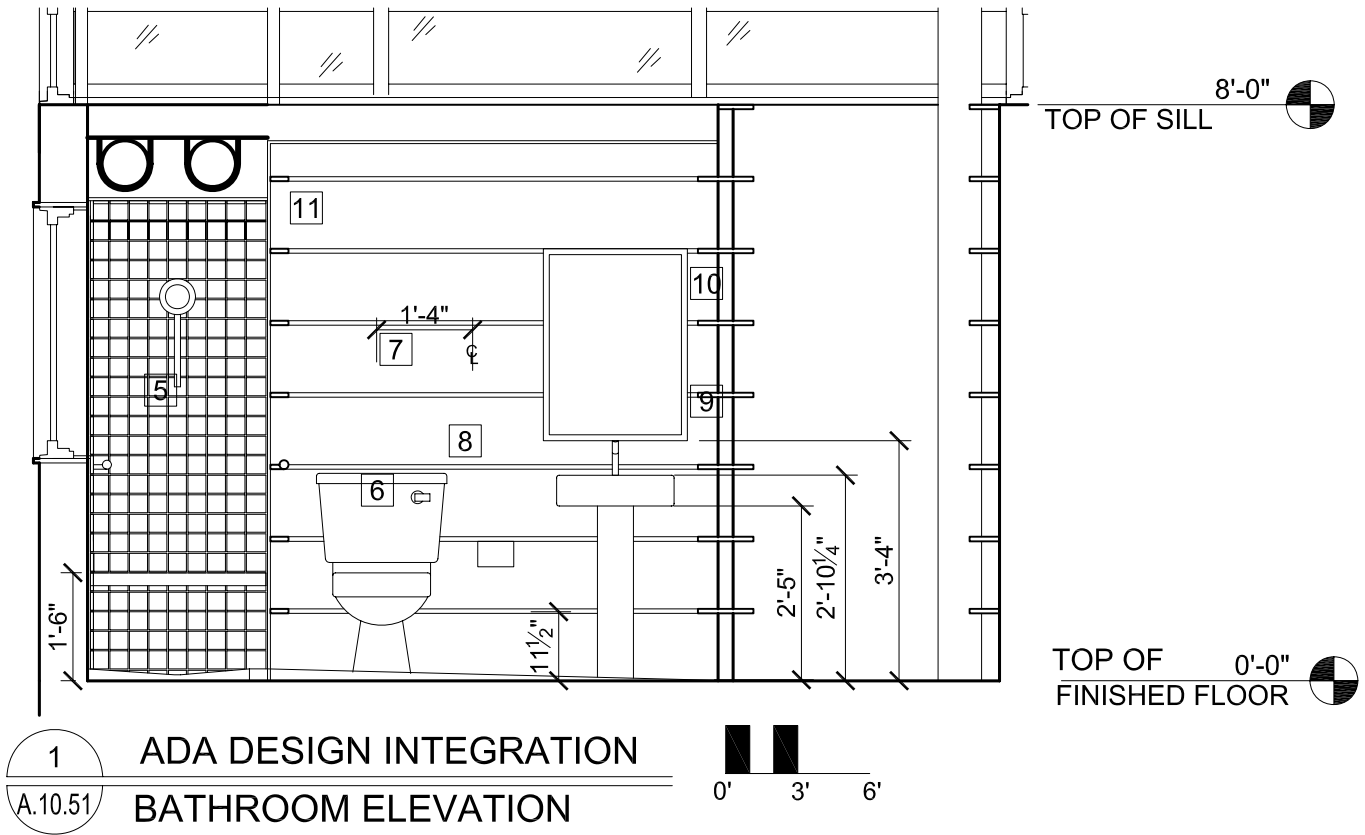
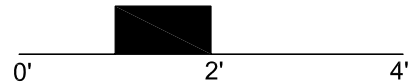
A.10.50

ADA DESIGN INTEGRATION - BEDROOM LAYOUT

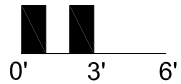
#	UNIVERSAL DESIGN FEATURE
1	2'-10" CLEAR OPENING AT ALL DOORS
2	HANDICAP ACCESSIBLE SHLEIVING BETWEEN 1'-0" AND 4'-0"
3	5'-0" DIA. CLEAR SPACE TO TURN
4	30" X 60" ROLL IN SHOWER
5	4'-4" LONG GRAB BAR AT SHOWER
6	FOLD DOWN SEAT AT SHOWER
7	1'-6" LONG GRAB BAR AT TOILET
8	ADA COMPLIANT TOILET
9	ADA COMPLIANT SINK AND LAVATORY
10	ADJUSTABLE-ANGLE MIRROR
11	ADA COMPLIANT SHOWER HEAD



3 ADA DESIGN INTEGRATION  
A.10.51 BATHROOM PLAN



1 ADA DESIGN INTEGRATION  
A.10.51 BATHROOM ELEVATION



WATER-RESISTANT PAINT WALL FINISH

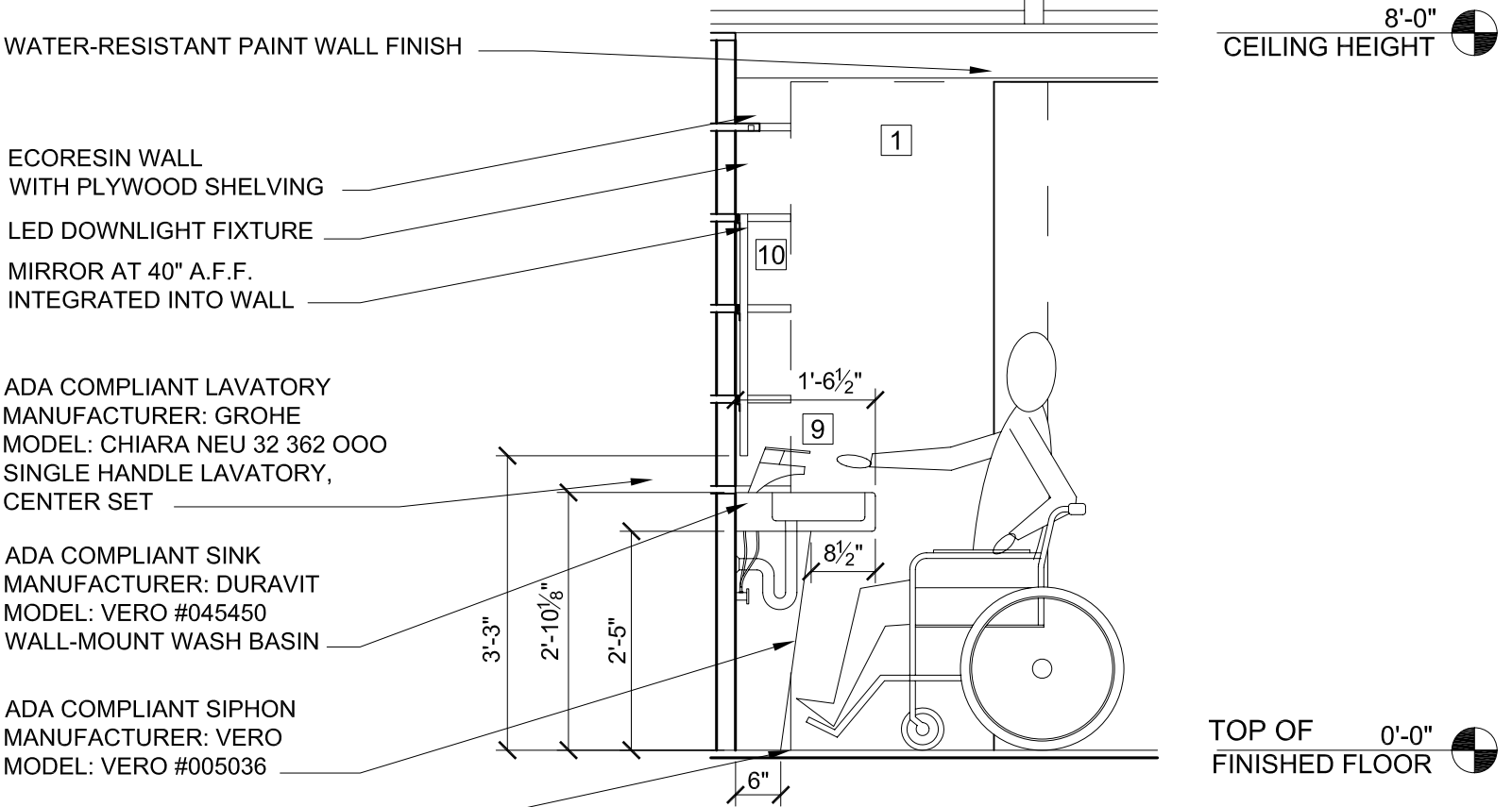
ECORESIN WALL  
WITH PLYWOOD SHELVING  
LED DOWNLIGHT FIXTURE  
MIRROR AT 40" A.F.F.  
INTEGRATED INTO WALL

ADA COMPLIANT LAVATORY  
MANUFACTURER: GROHE  
MODEL: CHIARA NEU 32 362 000  
SINGLE HANDLE LAVATORY,  
CENTER SET

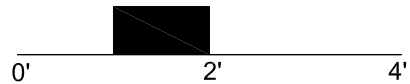
ADA COMPLIANT SINK  
MANUFACTURER: DURAVIT  
MODEL: VERO #045450  
WALL-MOUNT WASH BASIN

ADA COMPLIANT SIPHON  
MANUFACTURER: VERO  
MODEL: VERO #005036

NON-SLIP FLOORING



2 ADA DESIGN INTEGRATION  
A.10.51 BATHROOM ELEVATION



date	
description	
revision	

consultants:



prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**

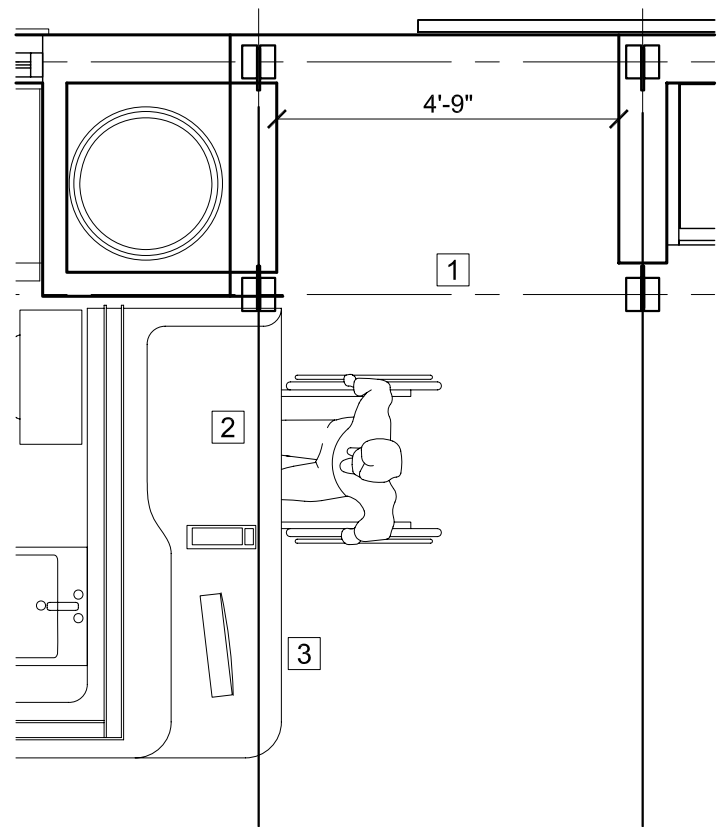


scale: as indicated

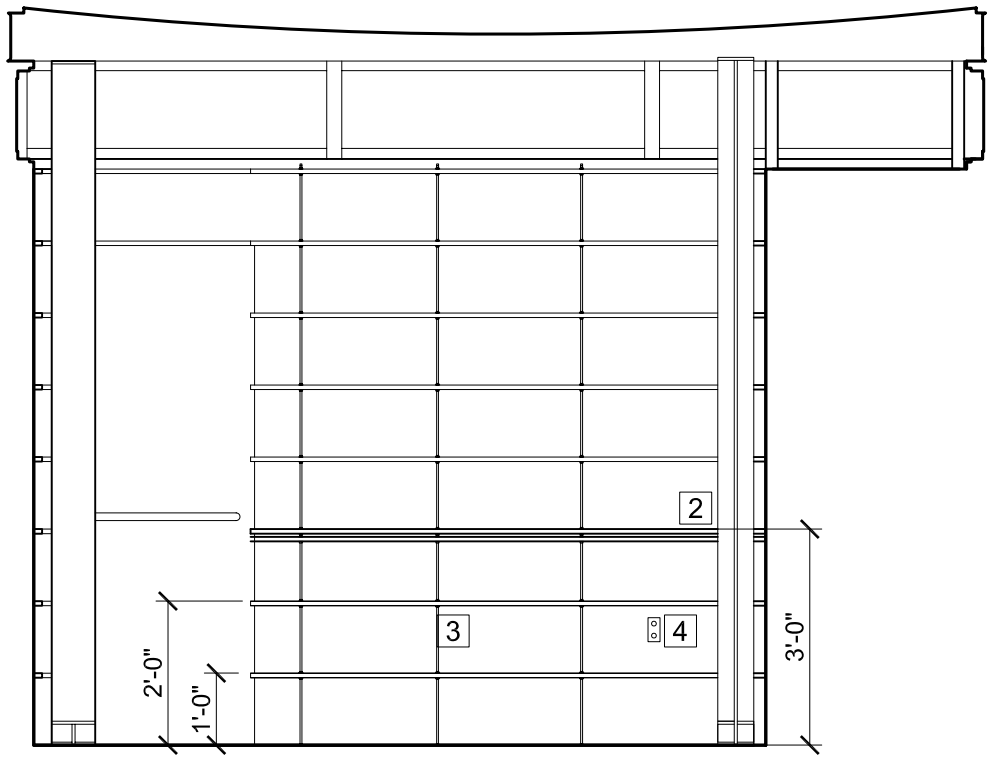
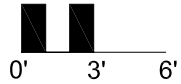
A.10.51

ADA DESIGN INTEGRATION - BATHROOM LAYOUT

#	UNIVERSAL DESIGN FEATURE
1	4'-8" EXTRA WIDE ACCESSIBLE HALLWAY
2	34" HIGH ACCESSIBLE DESK/ WORK SURFACE
3	EASY TO REACH SHELVING TO STORE OFFICE EQUIPMENT
4	OUTLETS LOCATED AT AN EASY TO REACH HEIGHT



2 ADA DESIGN INTEGRATION  
HOME OFFICE PLAN



1 ADA DESIGN INTEGRATION  
HOME OFFICE ELEVATION



TOP OF SILL 8'-0"

TOP OF FINISHED FLOOR 0'-0"

date

description

revision

consultants:



prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**



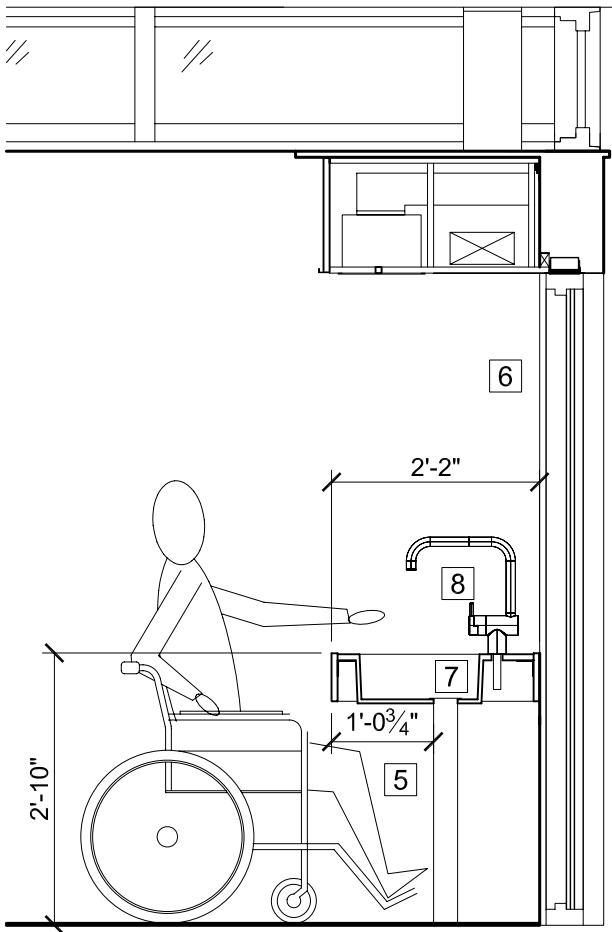
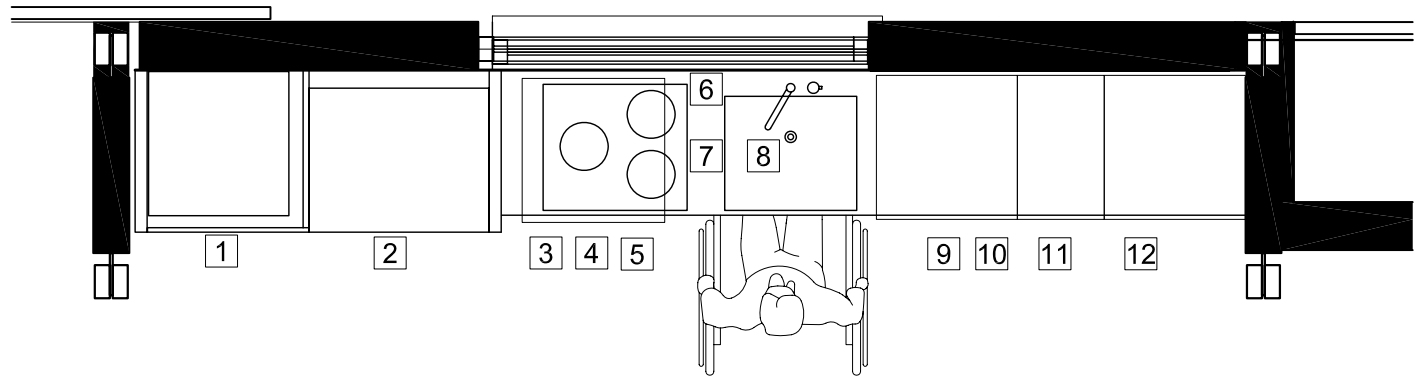
scale: **3/8" : 1' 0"**

A.10.52

ADA DESIGN INTEGRATION - HOME OFFICE LAYOUT

#	UNIVERSAL DESIGN FEATURE
1	FRONT LOADING WASHER/ DRYER UNIT
2	BOTTOM- FREEZER REFRIGERATOR
3	FLAT SURFACE ELECTRIC COOKTOP
4	ROLL OUT STORAGE CART
5	OPEN SPACE BENEATH COOKTOP AND SINK
6	LARGE WINDOW TO ALLOW VIEWS FOR ALL HEIGHTS
7	34" HIGH ACCESSIBLE COUNTERTOP

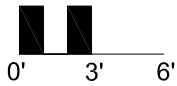
#	UNIVERSAL DESIGN FEATURE
8	ADA COMPLIANT SINK AND FAUCET
9	BRIGHT LED TASKLIGHTING UNDERNEATH SHELVES
10	UNDERCOUNTER DISH DRAWER
11	PULL-OUT DRAWERS WITH U-SHAPED HANDLES
12	UNDERCOUNTER MOUNTED MICROWAVE OVEN



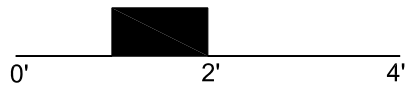
8'-0"  
TOP OF SILL

0'-0"  
TOP OF  
FINISHED FLOOR

2 ADA DESIGN INTEGRATION  
A.10.53 KITCHEN PLAN



2 ADA DESIGN INTEGRATION  
A.10.53 KITCHEN SECTION



date

description

revision

consultants:



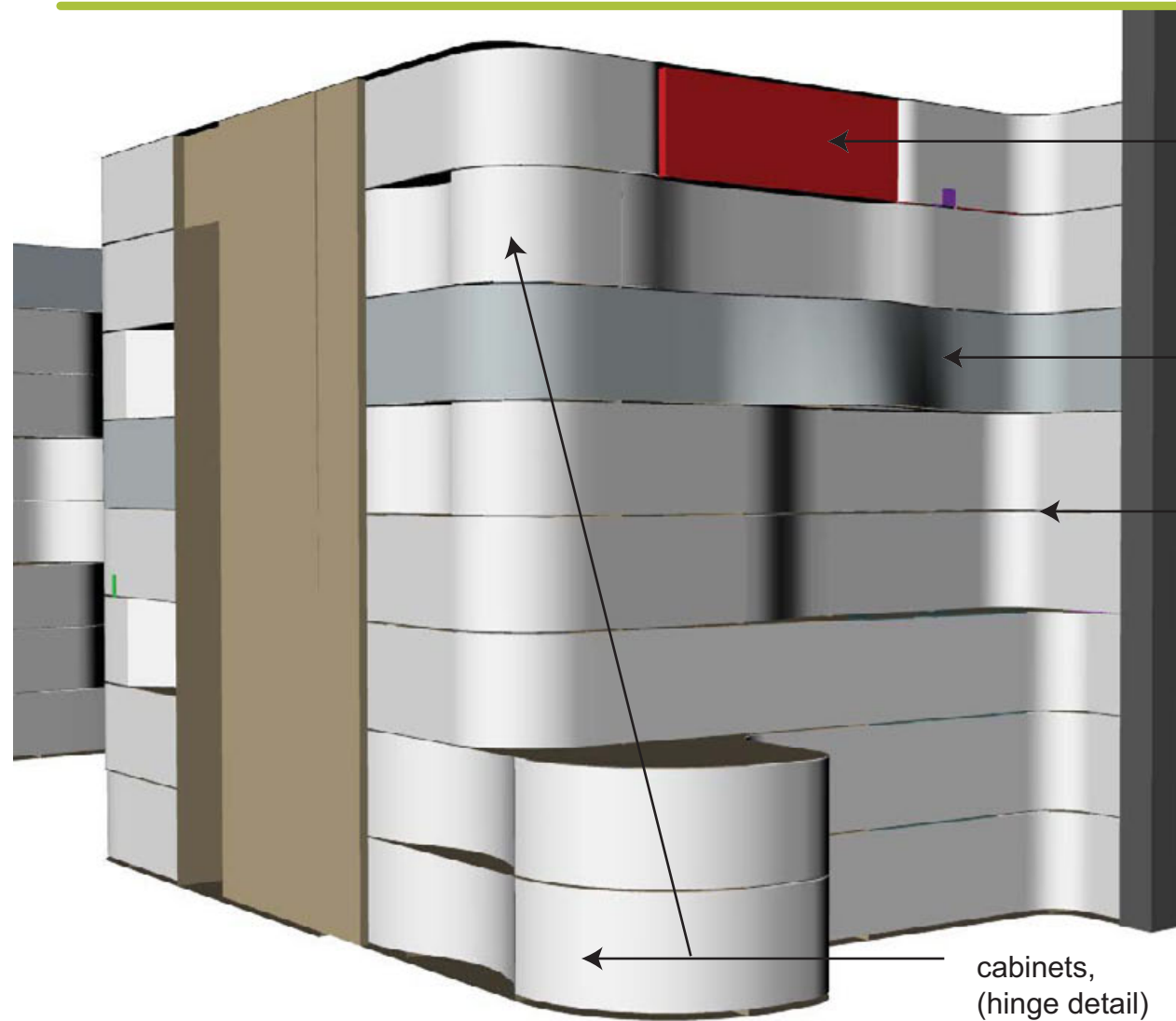
prepared by:  
**Sarah Shelley**  
date drawn:  
**12.6.06**



scale: as indicated

A.10.53

ADA DESIGN INTEGRATION - KITCHEN LAYOUT



FUNCTION LAYOUT -  
HOME-OFFICE,  
LIVING ROOM WEST WALL

exposed HVAC system

LED light strip

shelving,  
(skin detail B)

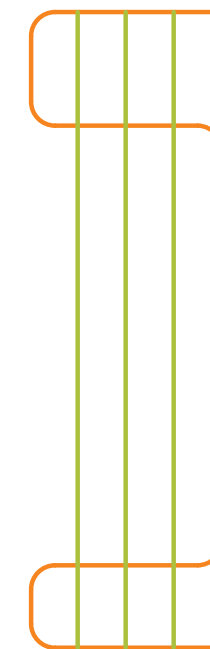
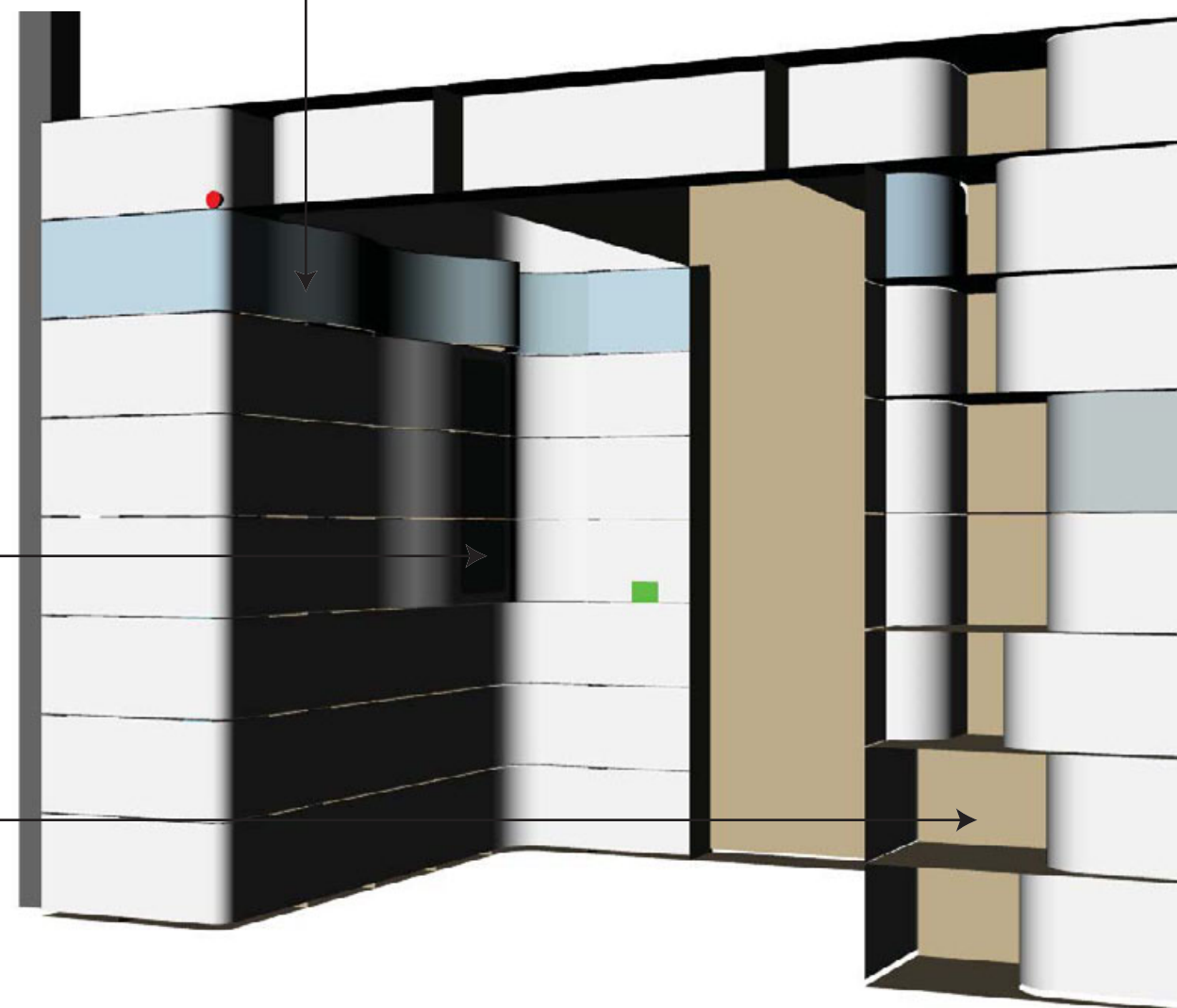
cabinets,  
(hinge detail)

LED light strip or  
florescent light fixture

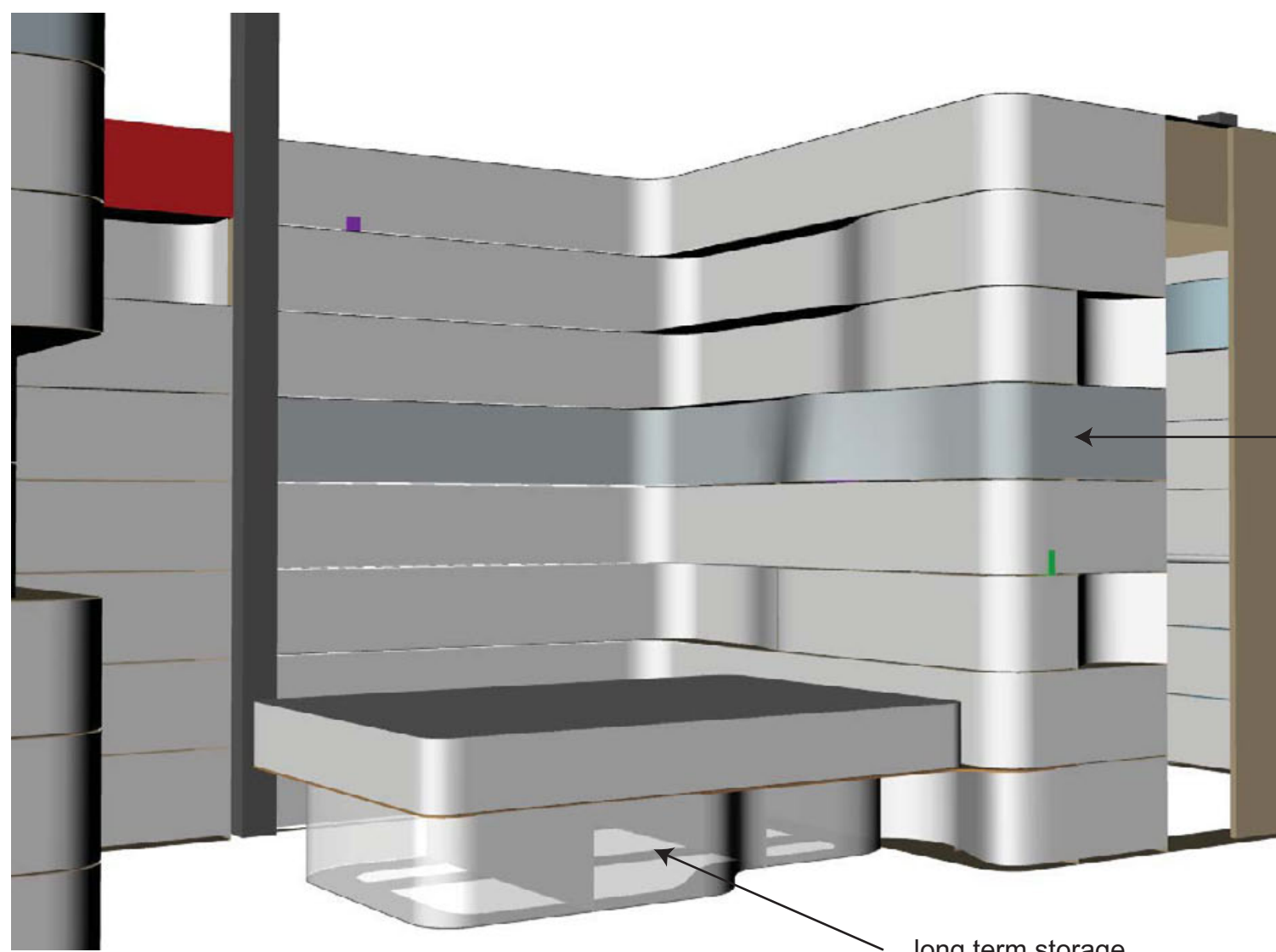
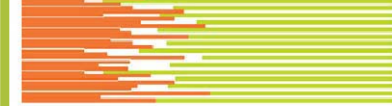
FUNCTION LAYOUT -  
BATHROOM WALLS

mirror + medicine cabinet,  
(hinge detail, skin detail C)

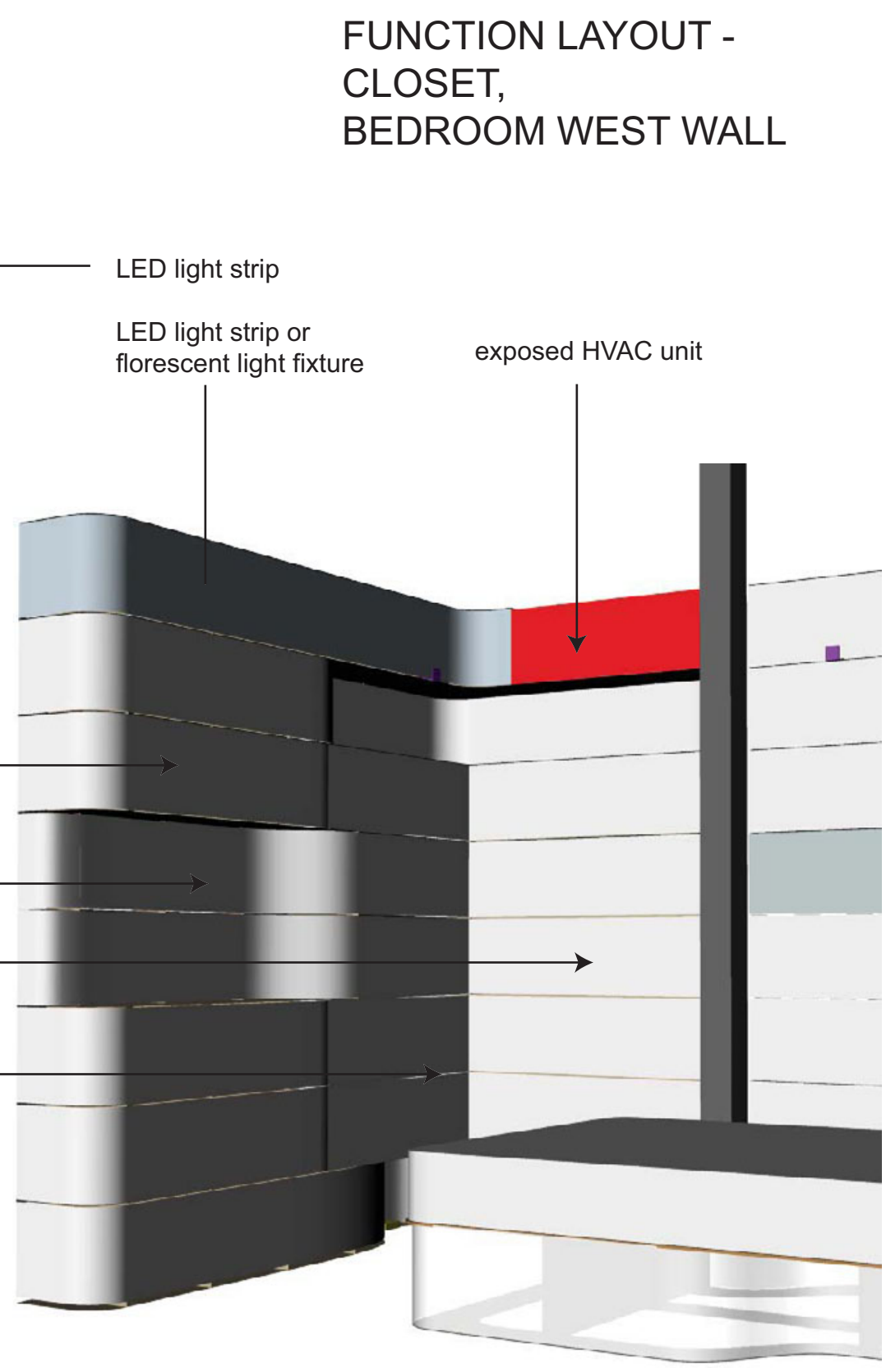
cabinets,  
(hinge detail)



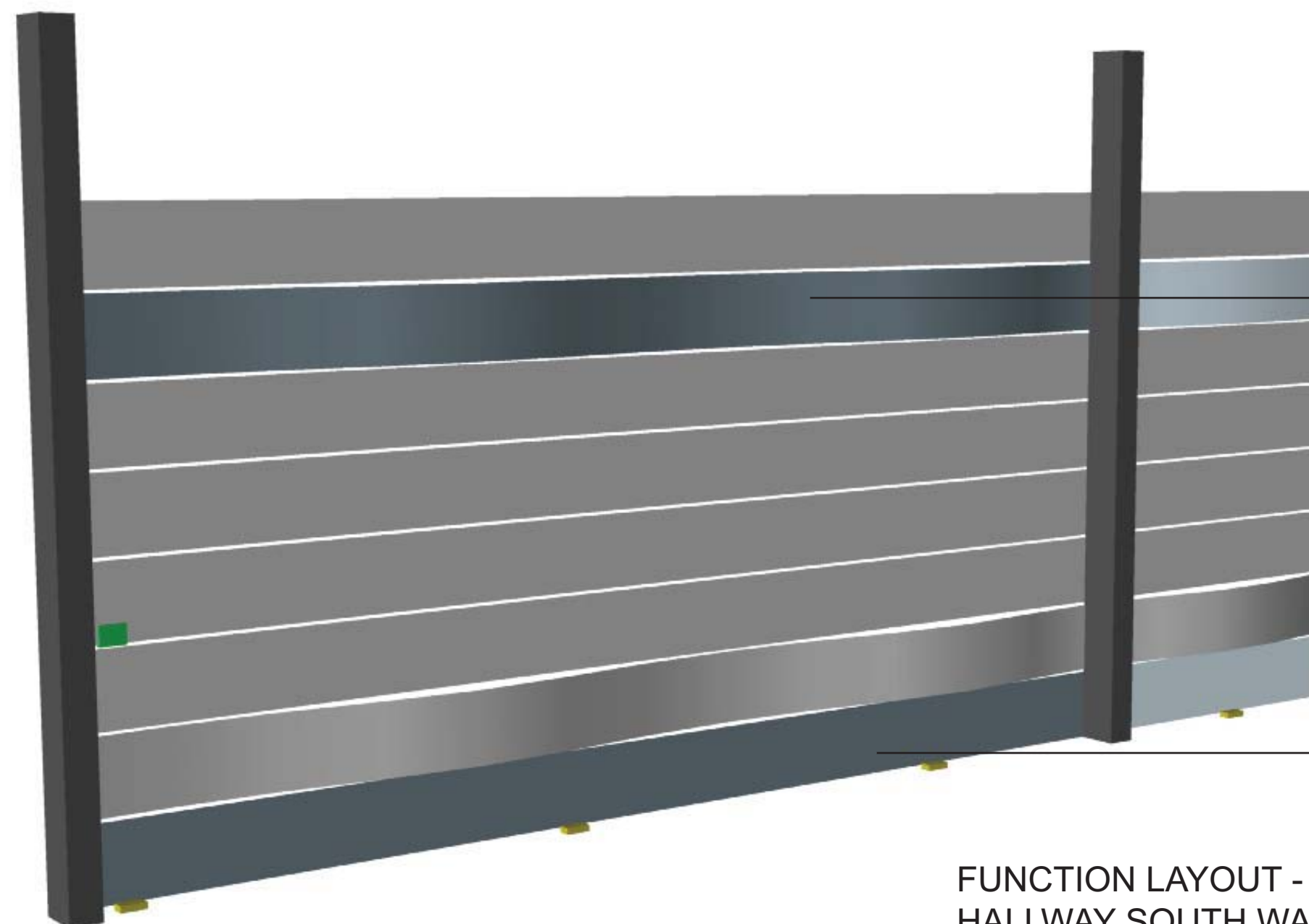
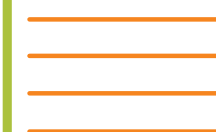
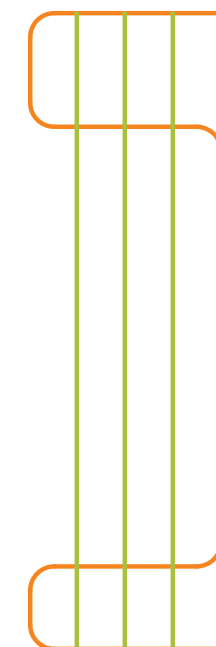
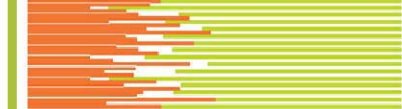




FUNCTION LAYOUT -  
BEDROOM EAST WALL



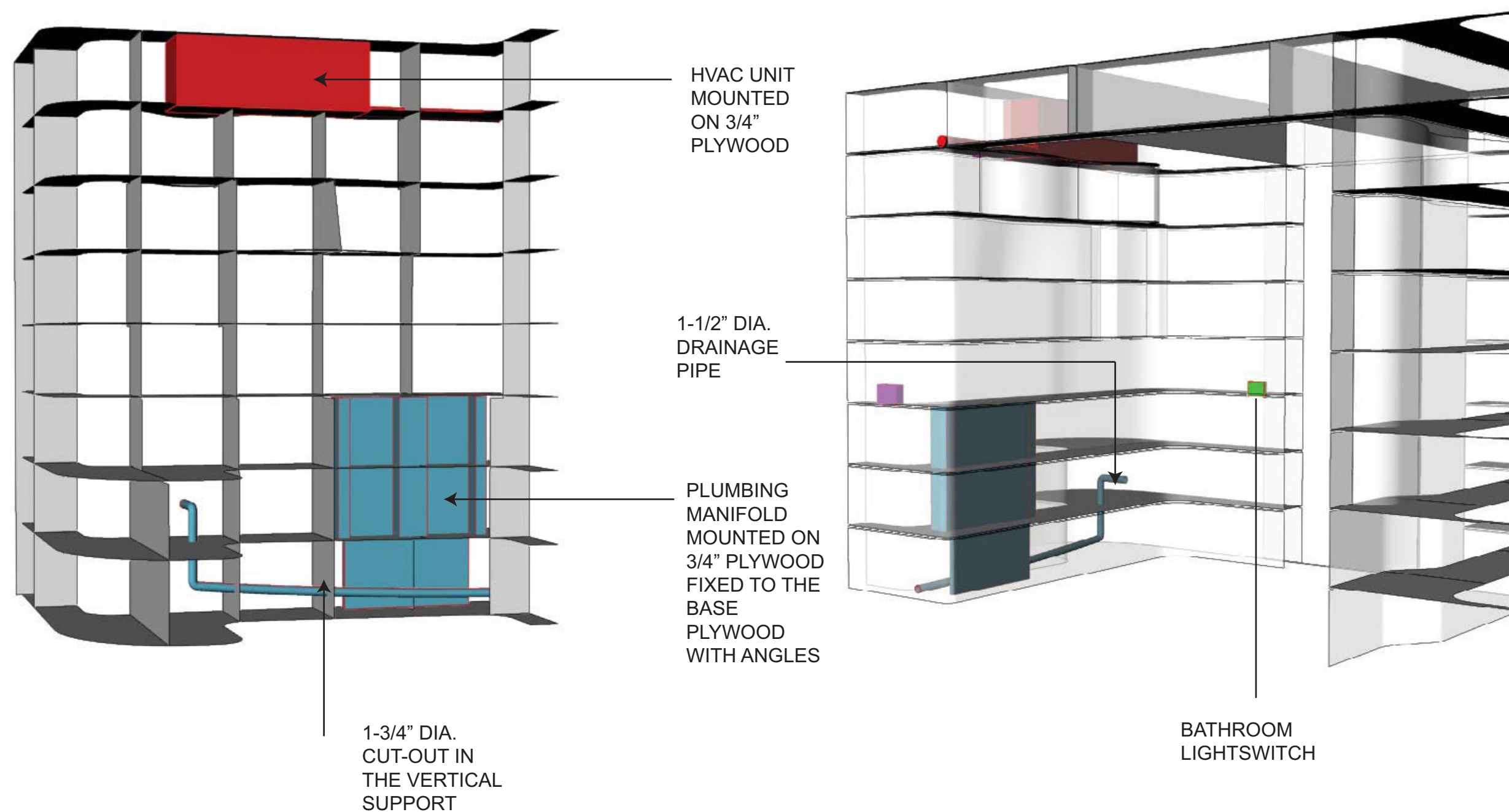
FUNCTION LAYOUT -  
CLOSET,  
BEDROOM WEST WALL



LED light strip

LED light strip,  
way finding

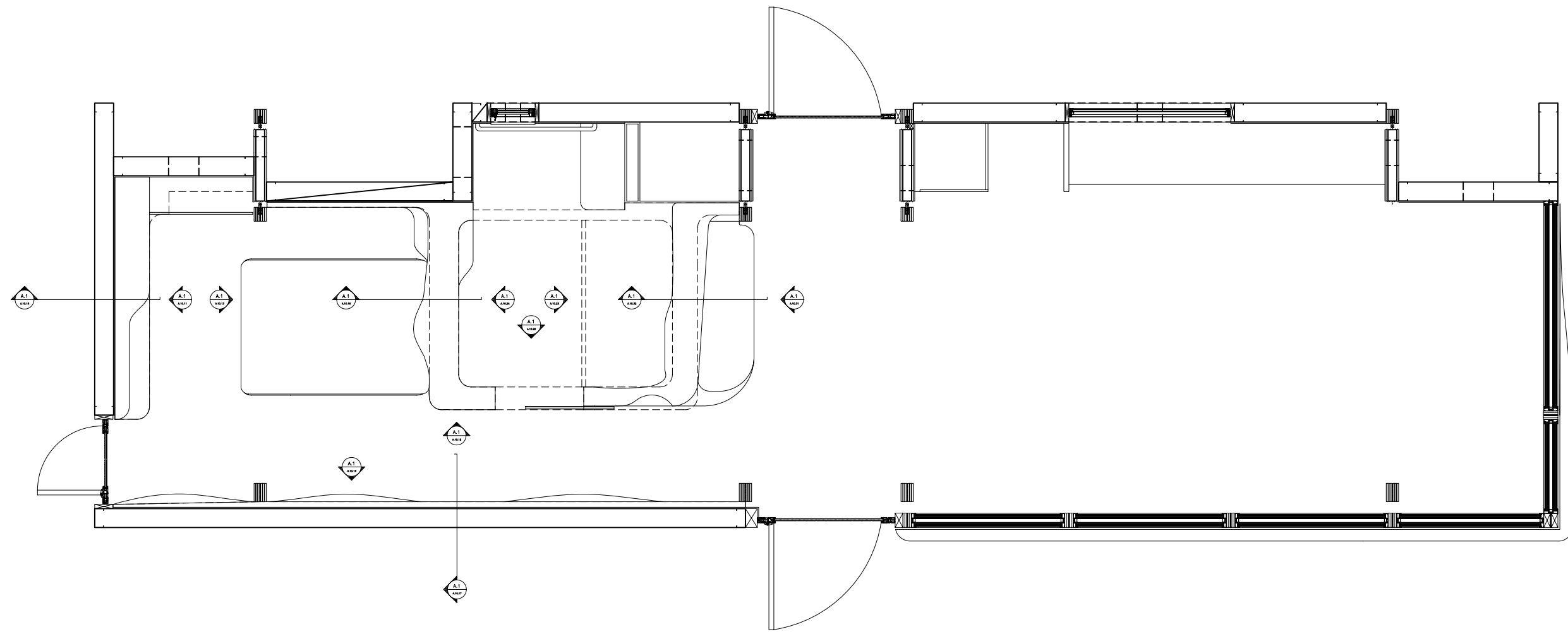
FUNCTION LAYOUT -  
HALLWAY SOUTH WALL



SERVICES LAYOUT - BATHROOM EAST WALL



N



1  
D.1.4

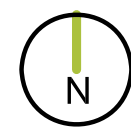
## FLOOR PLAN

revision	description	date

consultants:



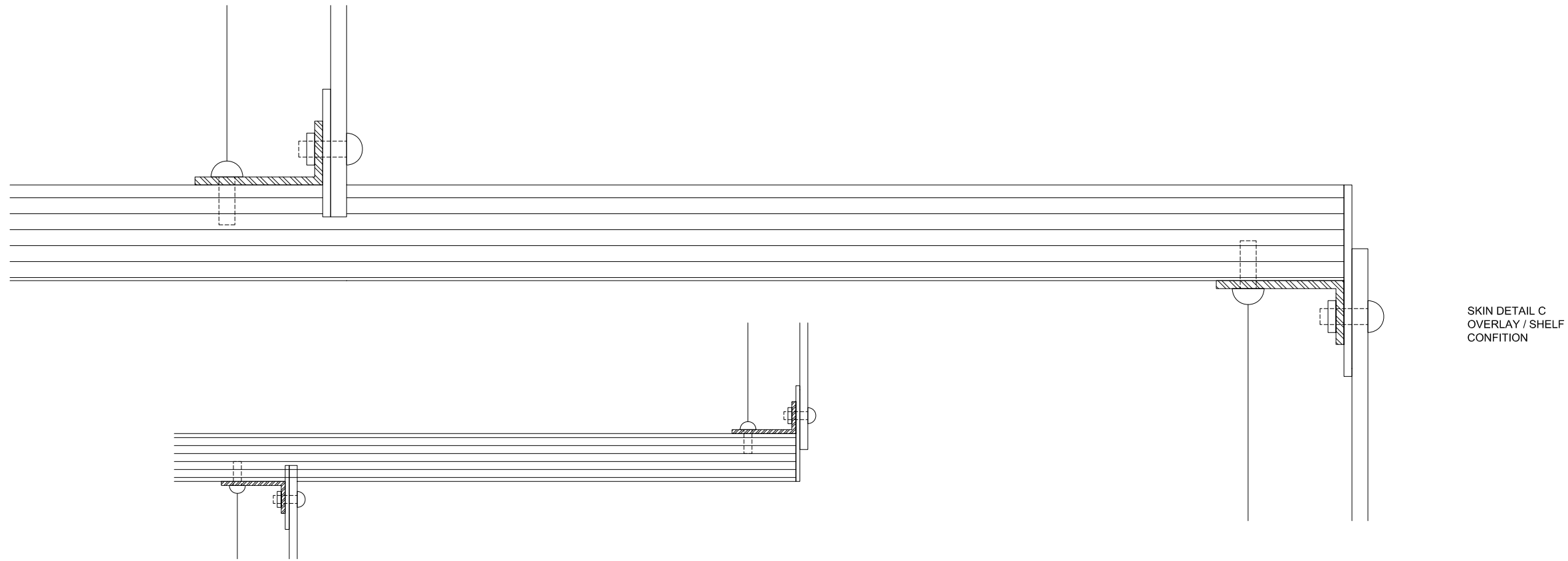
prepared by:  
**Joe Jamgochian**  
date drawn:  
**05.24.07**



scale: 1/4"= 1'-0"

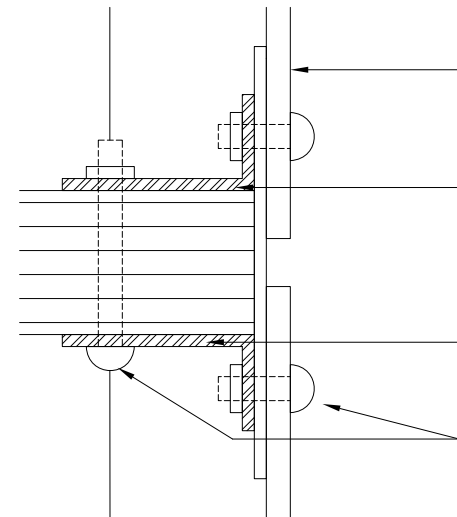
D.1.4

DIGITAL FABRICATION PLAN



SKIN DETAIL C  
OVERLAY / SHELF  
CONFITION

SKIN DETAIL A  
OVERLAY CONDITION



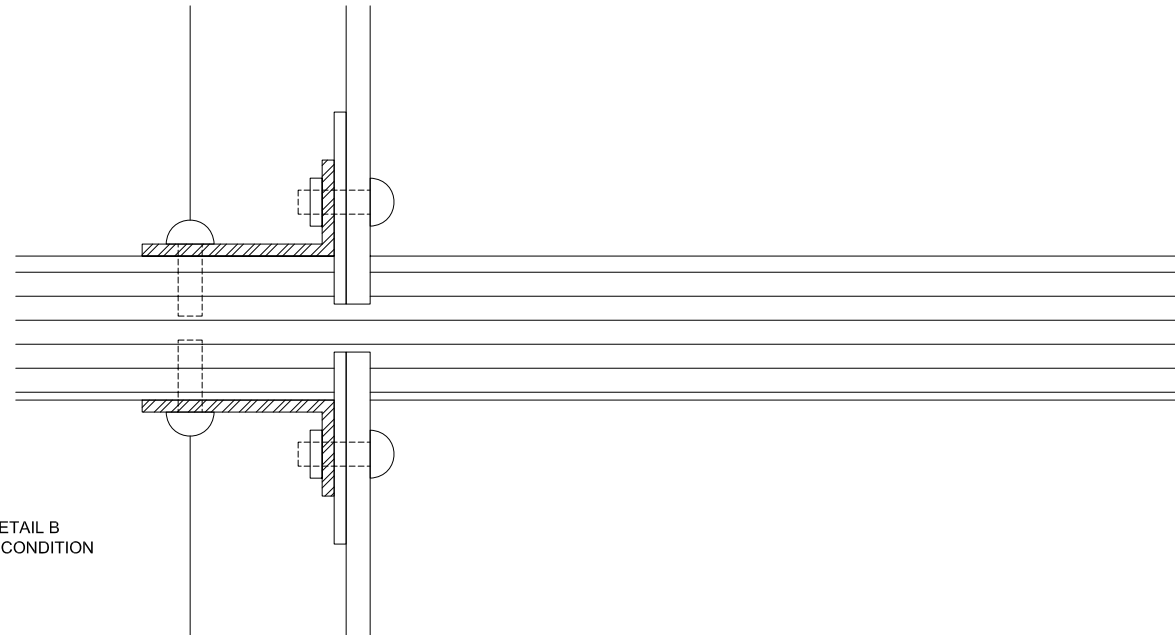
1/8" plastic sheet

1/16" steel angles

hafele 1/16" (1.5mm)  
connecting brackets

bolt

SKIN DETAIL B  
SHELF CONDITION



date	
description	
revision	

consultants:



prepared by:

**L. Ong**

date drawn:

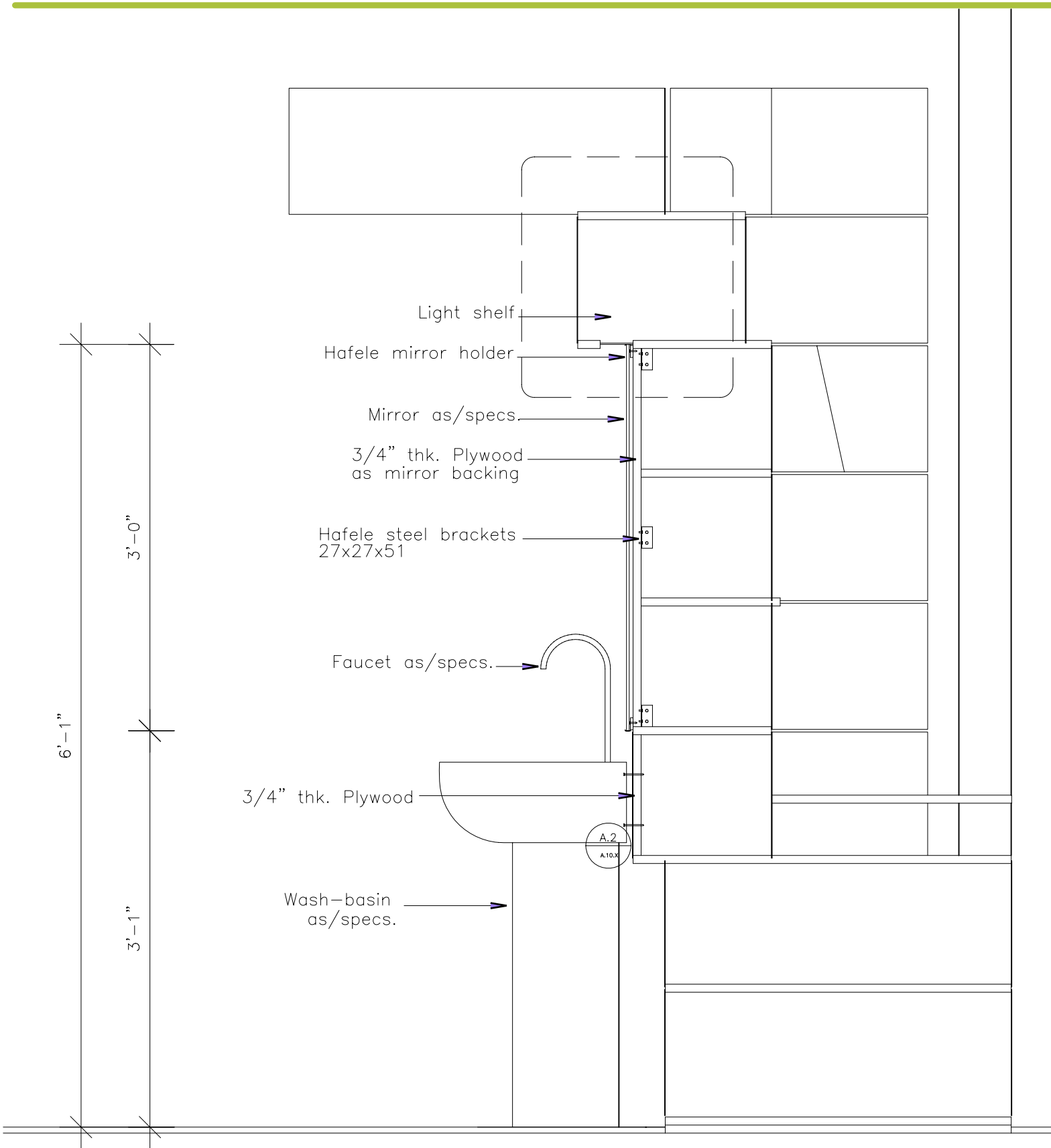
**05.29.07**

scale: 1/4"= 1'-0"

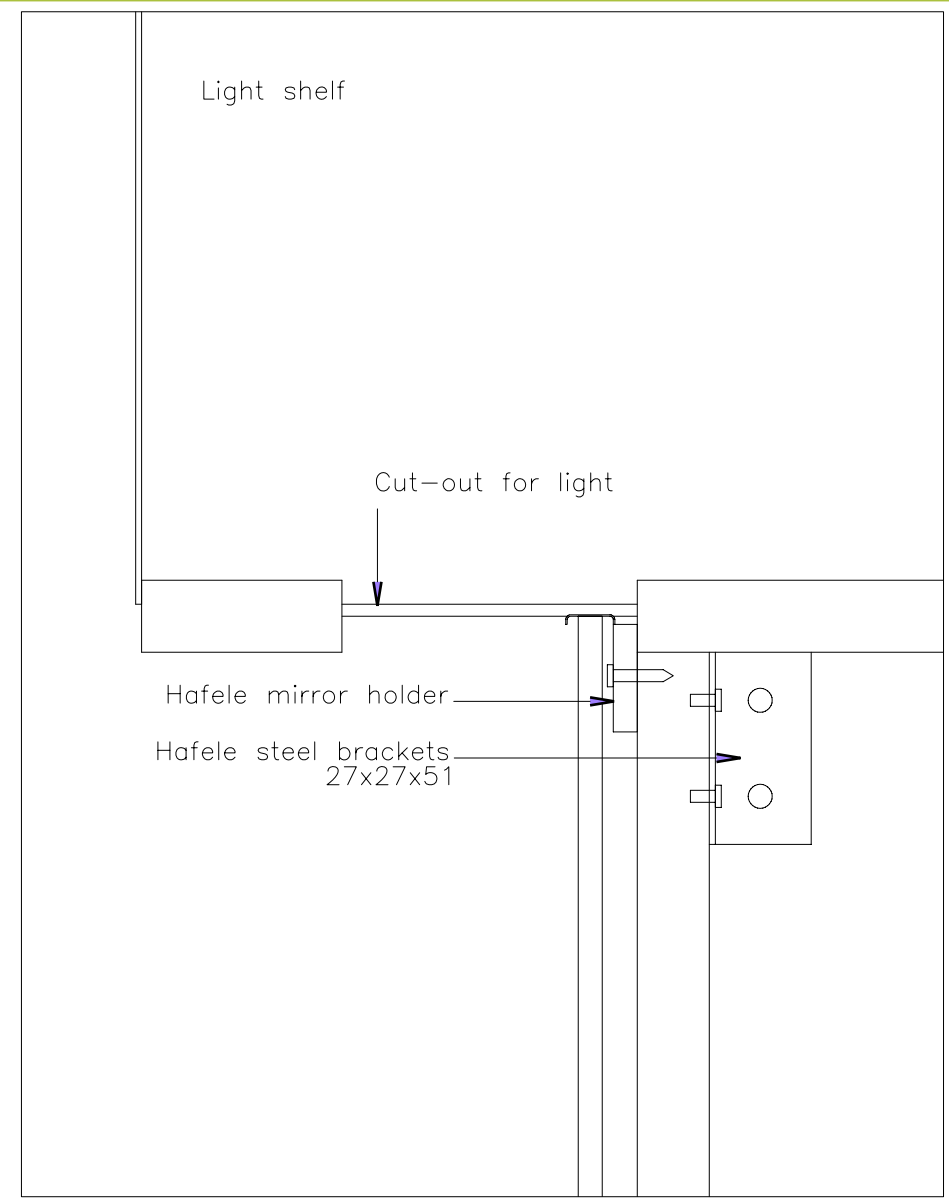
D.2.0

DIGITAL FABRICATED INTERIORS





**1**  
**D2.1** **HOME-OFFICE SECTION**  
**SCALE: 1" = 1'**



**A2**  
**D.2.1** **MIRROR DETAIL - SECTION A**  
**SCALE: 3" = 1'**

date
revision
description

consultants:

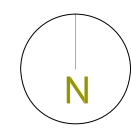
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



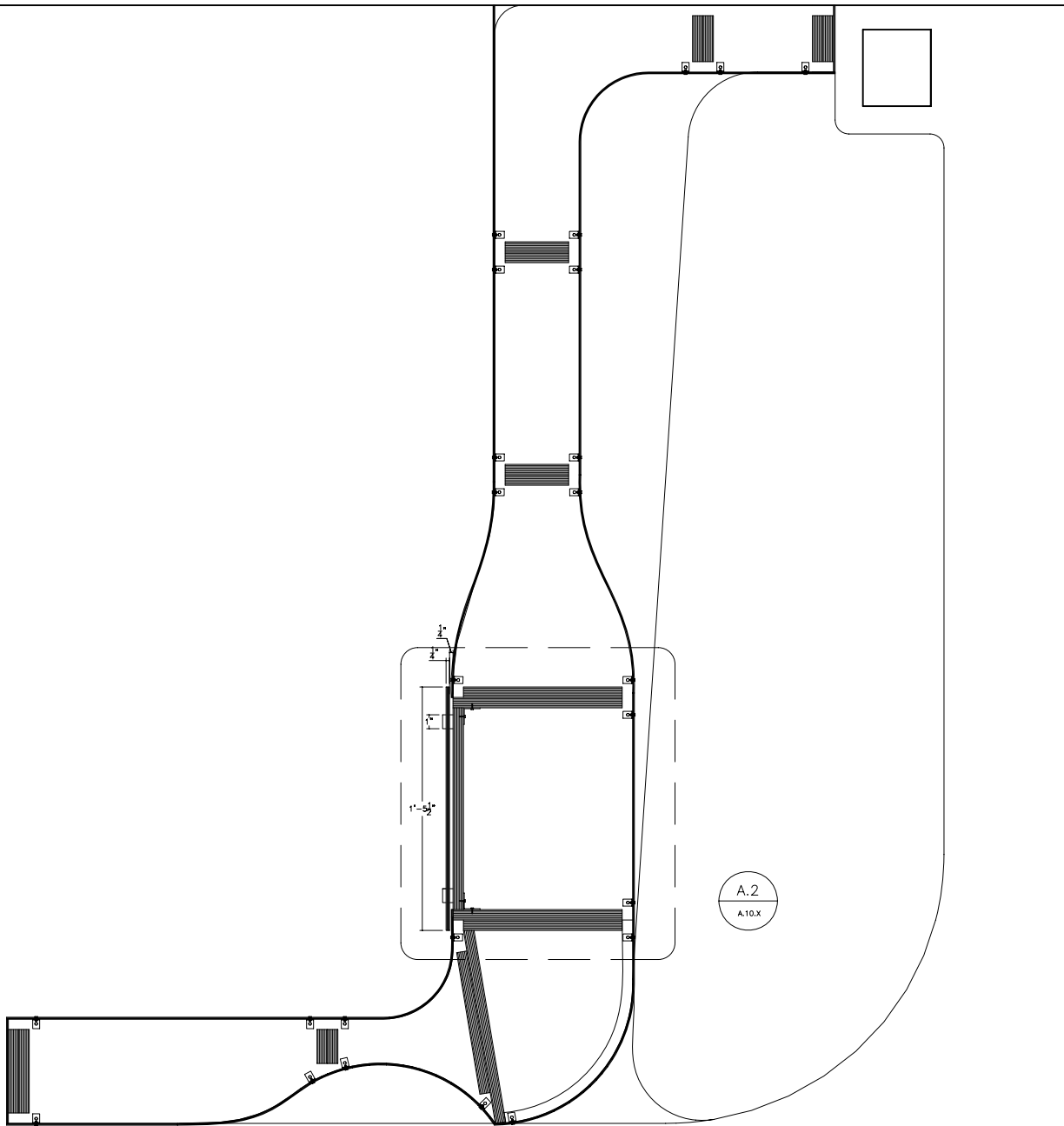
prepared by:  
**V. Deo**  
date drawn:  
**07.29.07**



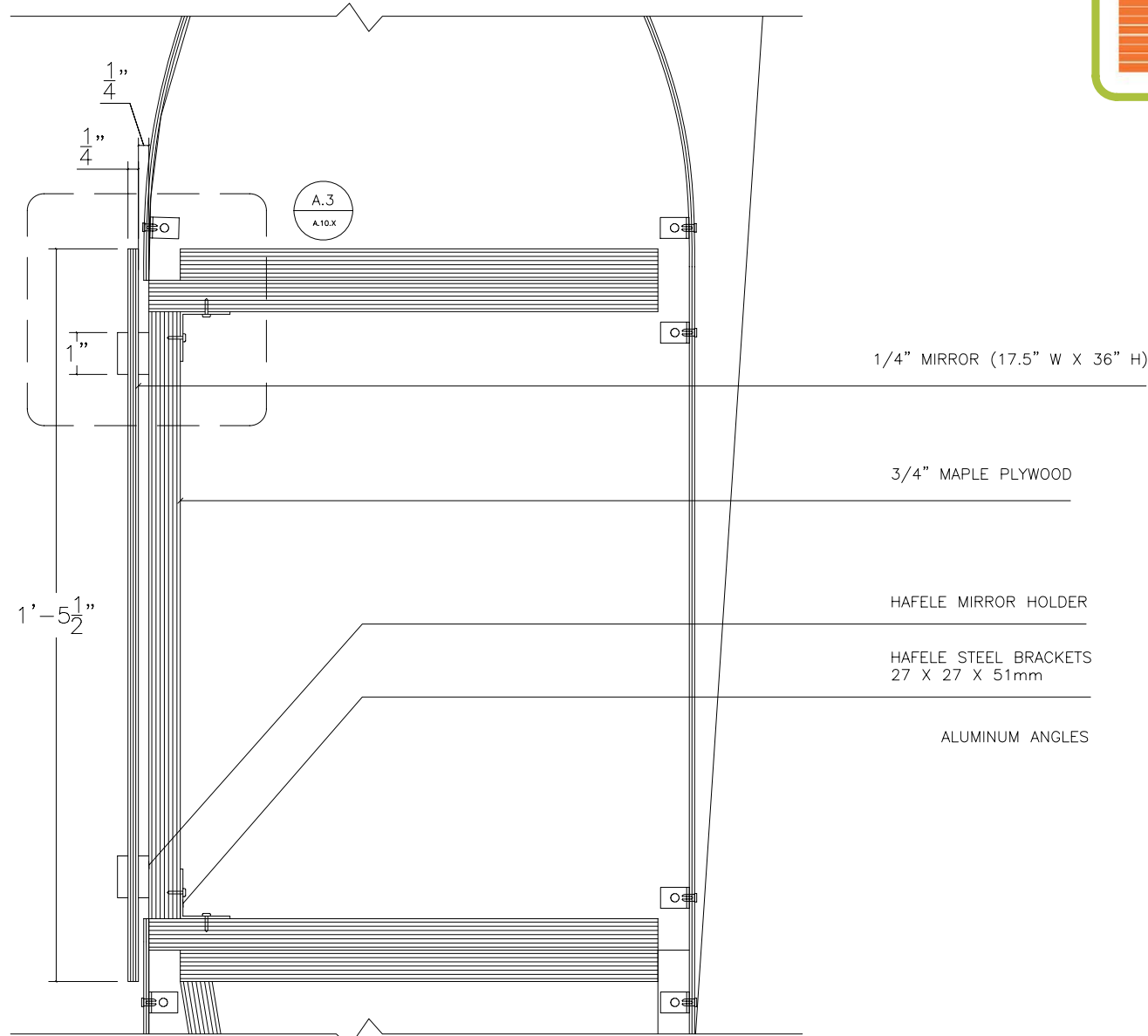
scale: **1/2"= 1'-0"**

**D.2.1**

**BATHROOM MIRROR DETAILS**



1 HOME OFFICE PLAN  
D.2.2 SCALE: 1" = 1'



2 MIRROR DETAIL - PLAN A  
D.2.2 SCALE: 3" = 1'

date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



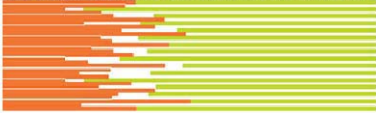
prepared by:  
**V. Deo**  
date drawn:  
**07.29.07**



scale: 1/2"= 1'-0"

D.2.2

BATHROOM MIRROR DETAILS



date

description

revision

consultants:



prepared by:

V. Deo

date drawn:

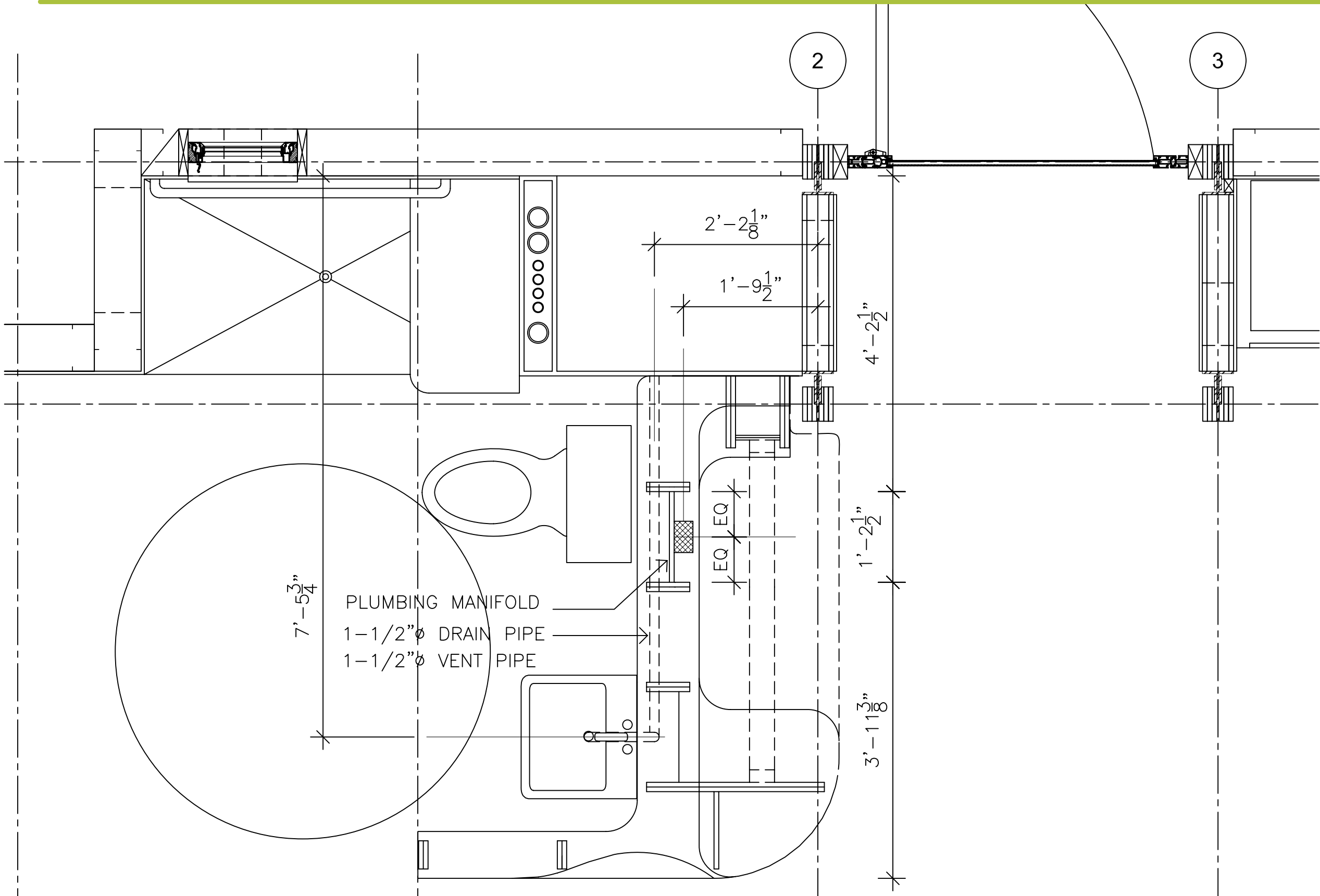
08.01.07



scale: 3/4"= 1'-0"

D.2.3

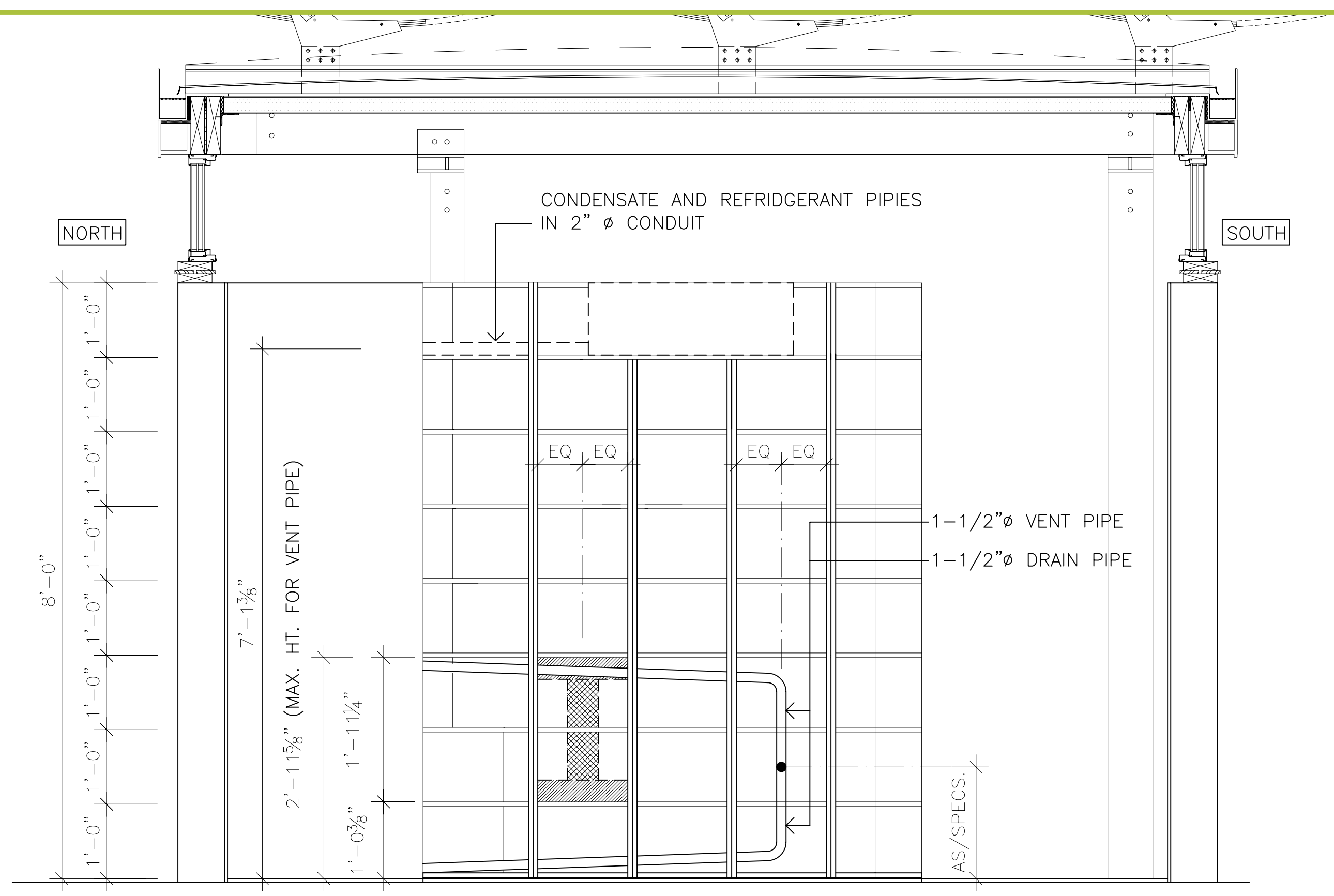
OFFICE PLUMBING MANIFOLD DETAILS



1

PLAN - BATHRM - HOME OFFICE

D.2.3



date
revision
description

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**V. Deo**  
date drawn:  
**08.01.07**

scale: 3/4"= 1'-0"

D.2.4

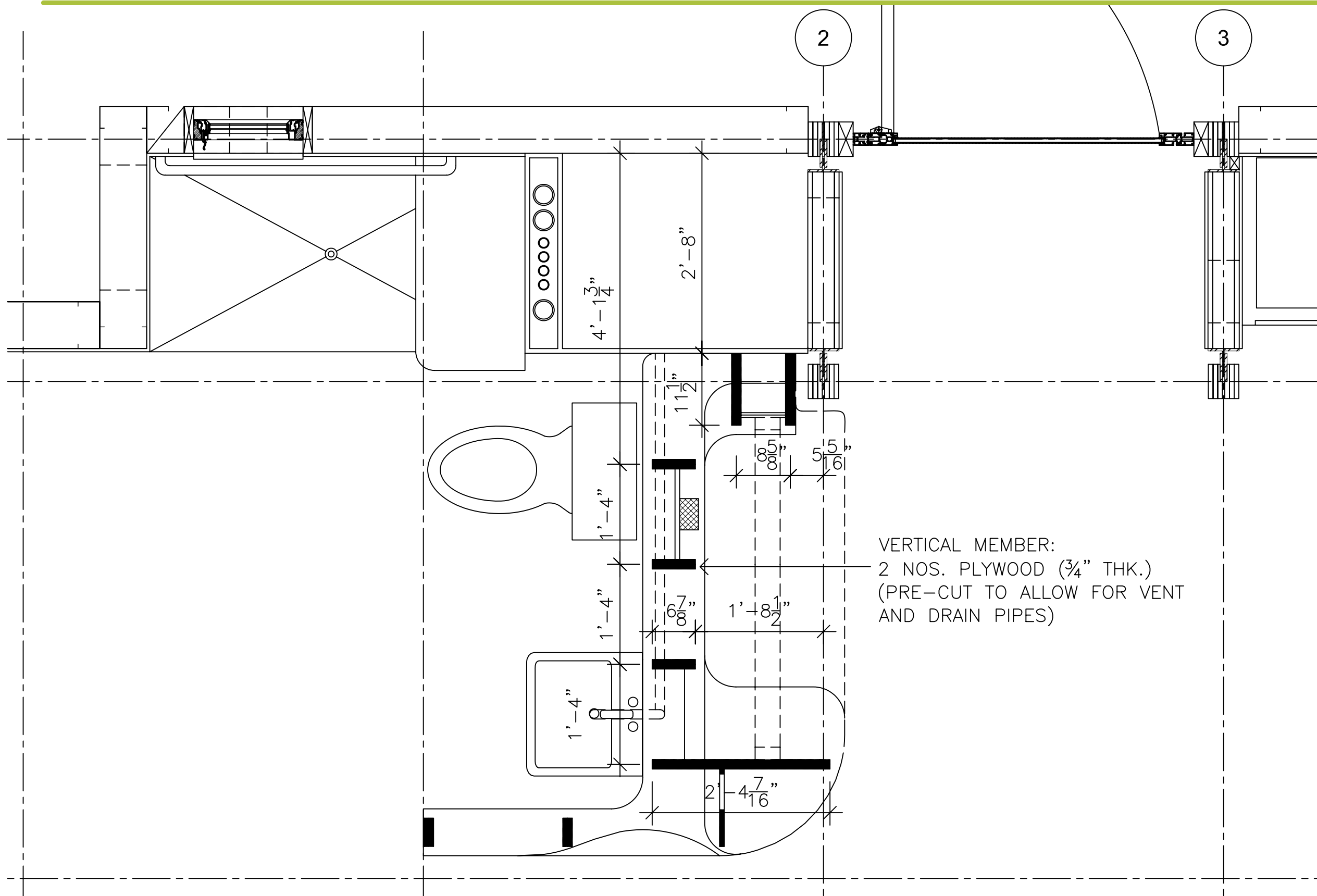
OFFICE PLUMBING MANIFOLD DETAILS

1  
D.2.4  
ELEVATION - BATHRM EAST WALL

LEGEND:

PLUMBING MANIFOLD

MBB2 MOUNTING STRIP/  
1X4 WOOD PLANK (3.5" WIDE)



VERTICAL MEMBER:  
- 2 NOS. PLYWOOD ( $\frac{3}{4}$ " THK.)  
(PRE-CUT TO ALLOW FOR VENT  
AND DRAIN PIPES)

date

description

revision

*consultants:*



*prepared by:*

V. Deo

*date drawn:*

**08.01.07**



scale:  $\frac{3}{4}" = 1'-0"$

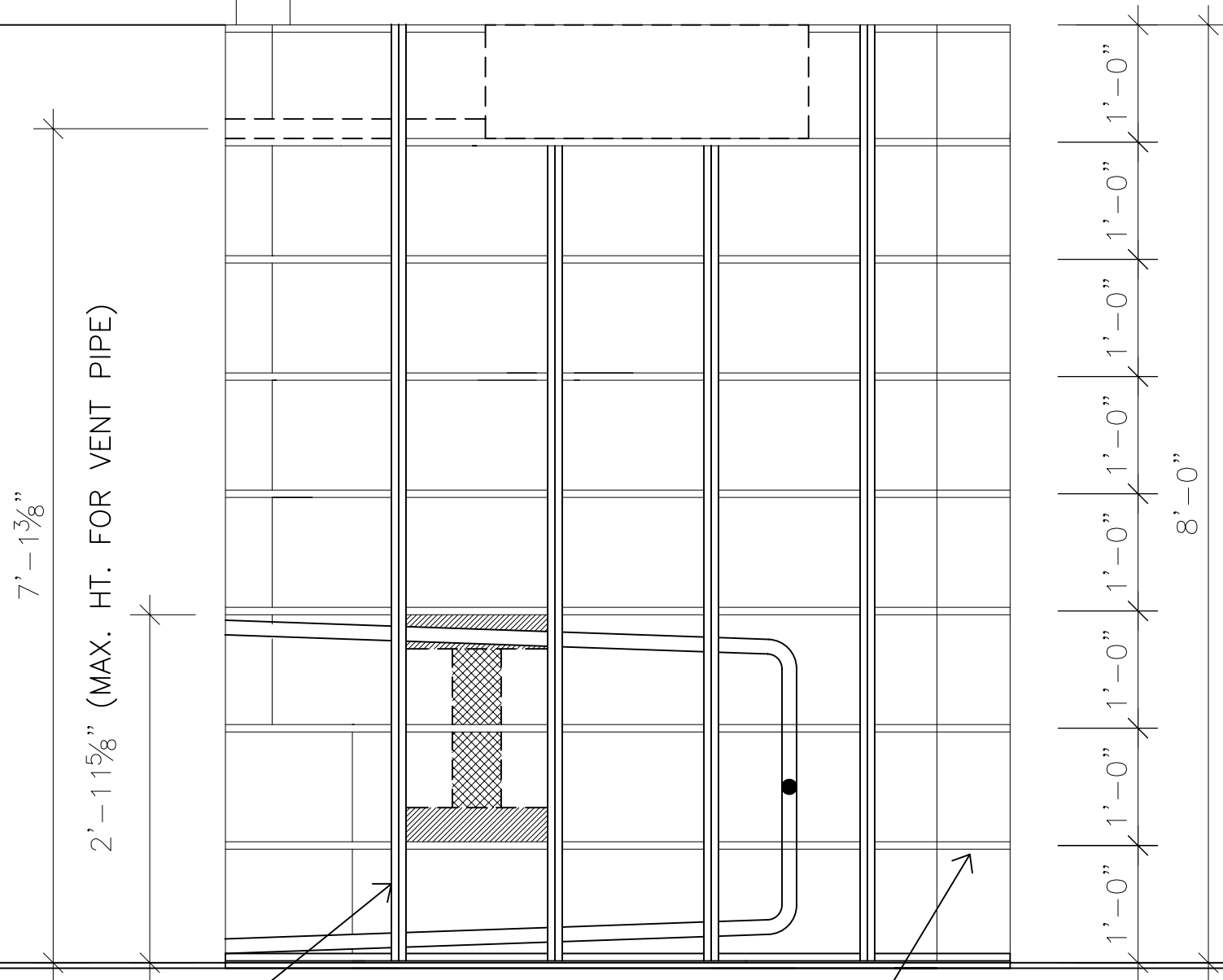
## D.2.5

# OFFICE PLUMBING MANIFOLD DETAILS



NORTH

SOUTH



VERTICAL MEMBER:  
2 NOS. PLYWOOD (3/4" THK.)  
(PRE-CUT TO ALLOW FOR VENT  
AND DRAIN PIPES)

HORIZONTAL MEMBER:  
1 NOS. PLYWOOD (3/4" THK.)  
(PRE-CUT TO LEAVE AN EDGE  
BAND OF 1 1/2" AND A HOLLOW  
INTERNAL TO ACCOMMODATE  
SERVICES COMPONENTS)

revision	description	date

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

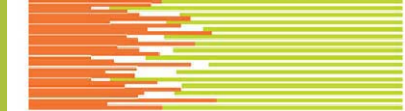


prepared by:  
**V. Deo**  
date drawn:  
**08.01.07**

scale: 3/4"= 1'-0"

D.2.6

OFFICE PLUMBING MANIFOLD DETAILS



date	
revision	
description	

consultants:

---

---

---

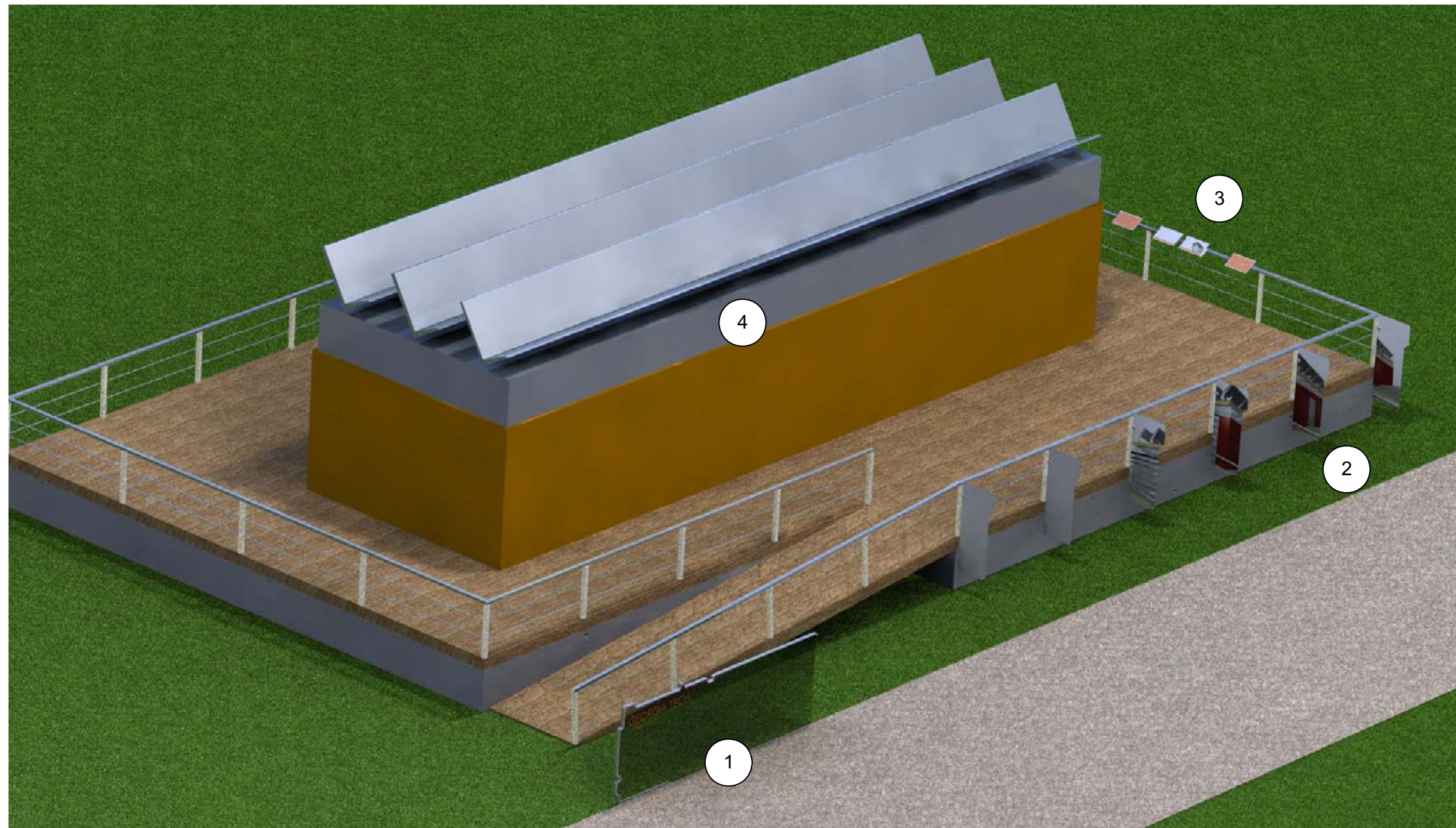
---



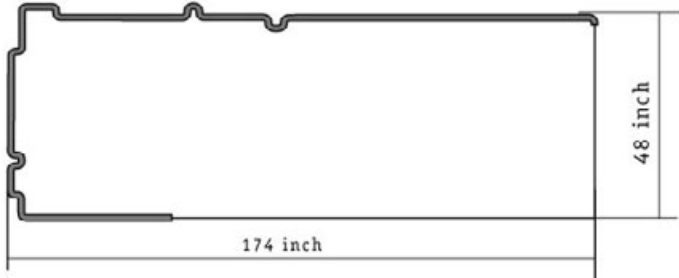
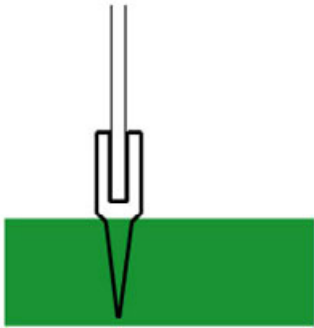
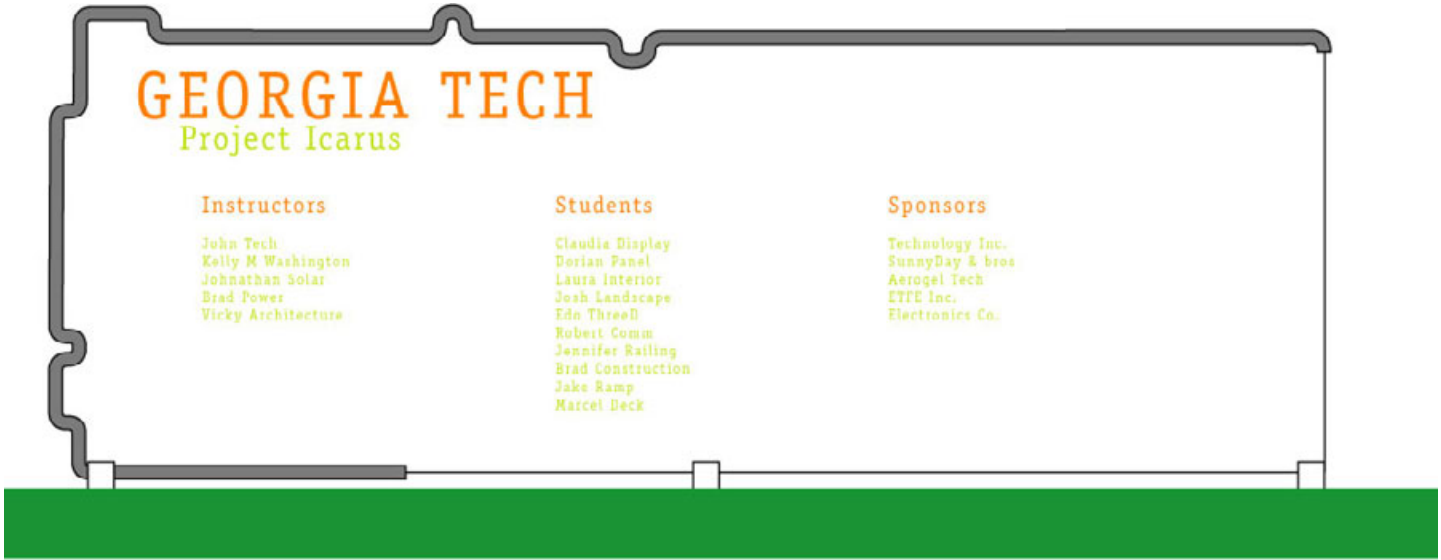
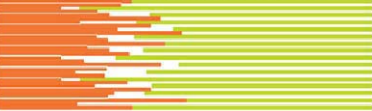
prepared by:  
**Claudia Winegarden**  
date drawn:  
**09.03.07**

EXHIBITION PLAN

ID.1.0



1. Exhibition entrance wall
2. Exhibition entrance panels
3. Exhibition deck panels
4. Exhibition interior
5. Exhibition interactive



date	
revision	
description	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



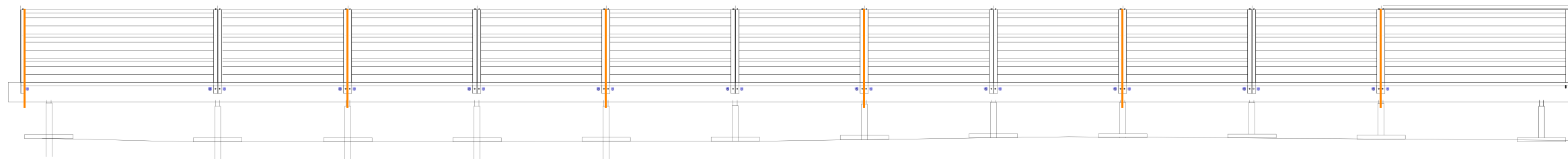
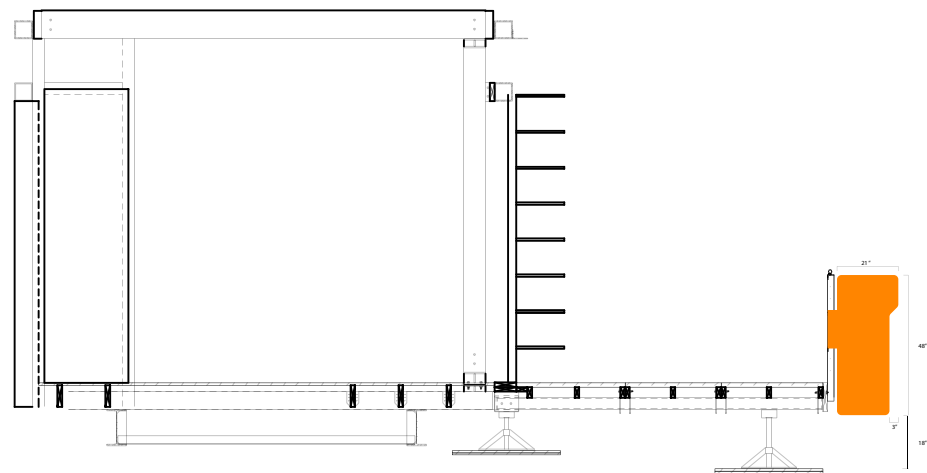
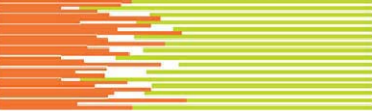
prepared by:  
**Claudia Winegarden**  
date drawn:  
**09.03.07**



ID.1.1

EXHIBITION ENTRANCE WALL





3 aluminum @ 1'-0" OC  
6 cables @ 4" OC

date

description

revision

consultants:



prepared by:  
**Claudia Winegarden**  
date drawn:  
**09.03.07**



scale:  $\frac{3}{16}'' = 1'-0''$

ID.1.2

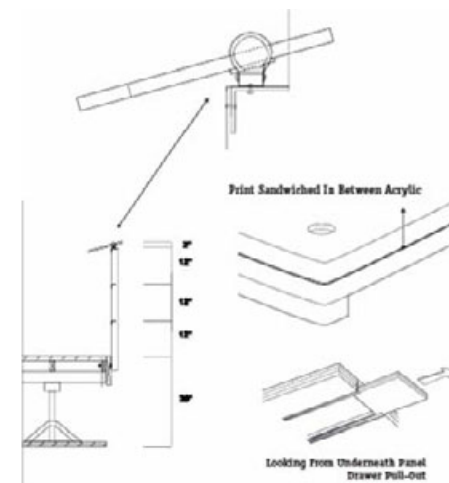
EXHIBITION ENTRANCE PANELS



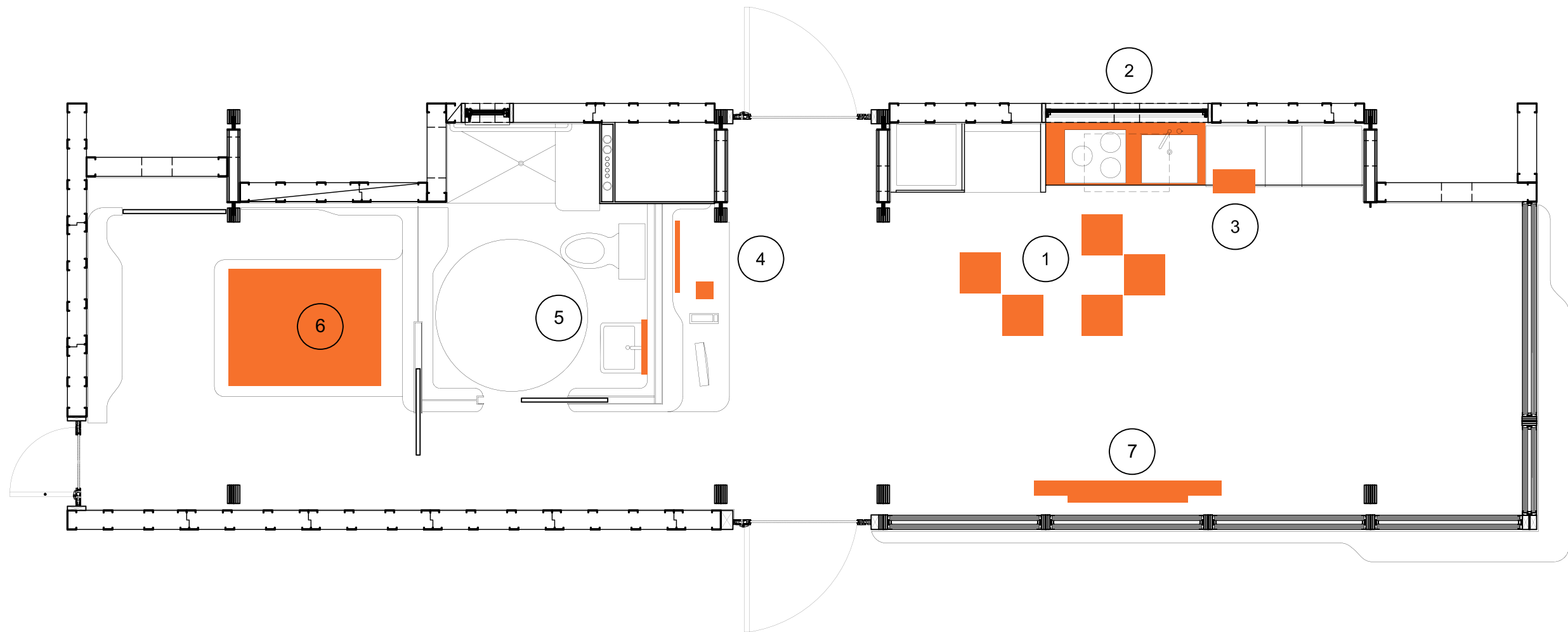
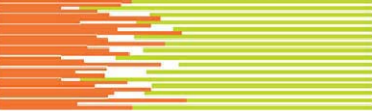
*consultants:*



## ID.1.3







- 1 . Information of recycled tiles on tiles (adhesive print material)
- 2 . Information of Kirei board on the board (transparent print material)
- 3 . Information of adjustable kitchen on kitchen drawers
- 4 . Information of lighting on wall posters and logic controllers in notepads
- 5 . Information of adjustable bathroom on mirror (transparent print material)
- 6 . Information of adjustable bedroom on the cover (printed fabric)
- 7 . Information of overall house design and properties on flat panel TV (looped animation)

1 FLOOR PLAN  
A.1.0



prepared by:  
**Claudia Winegarden**  
date drawn:  
**09.03.07**

scale: 1/4"= 1'-0"

ID.1.4

consultants:

revision

description

date

EXHIBITION INTERIOR

INTERACTION MAP

2 INTERACTIVE SYSTEMS

Interactive Voice Response System  
From personal cell phones

Audio-Visual  
Looped animation  
32" Flat Panel TV



prepared by:  
**Claudia Winegarden**  
date drawn:  
**09.03.07**

EXHIBITION INTERACTIVE

date	
description	
revision	

consultants:

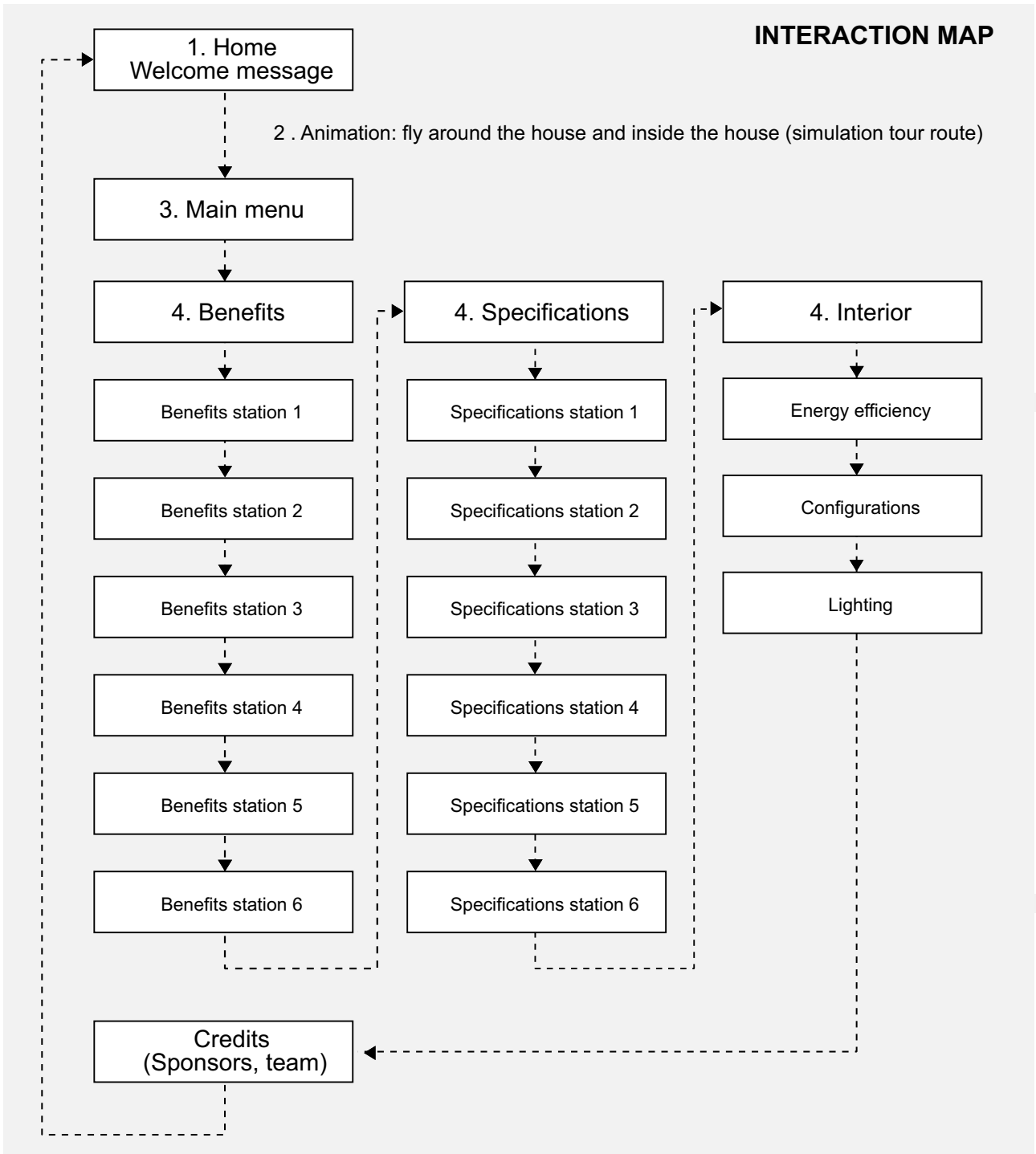
\_\_\_\_\_

\_\_\_\_\_

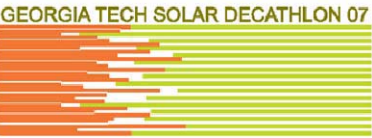
\_\_\_\_\_

\_\_\_\_\_

ID.1.5



GENERAL NOTES



1.00 GENERAL

1.01 ALL CONSTRUCTION SHALL CONFORM TO THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE, 2000 EDITION (2000 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS DATED JANUARY 1, 2006). REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE LATEST STANDARD OR CODE ADOPTED AND PUBLISHED. PROVISION SHALL ALSO BE MADE TO SATISFY THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE, 2007 EDITION, PER THE 2007 SOLAR DECATHLON RULES AND REGULATIONS, DATED MAY 3, 2006.

1.02 SUPERIMPOSED GRAVITY LOADS:

OCCUPANCY OR USE	LIVE LOAD
RESIDENTIAL	50 PSF (PER SOLAR DECATHLON)
DECKS & RAMPS	50 PSF
STAIRS	100 PSF
MISCELLANEOUS (DEAD LOAD)	10 PSF
ROOF	20 PSF
ROOF DEAD LOAD (MINIMUM)	17 PSF
* OR ACTUAL WEIGHT OF EQUIPMENT, WHICHEVER IS GREATER. LIVE LOAD REDUCTION IS TAKEN IN ACCORDANCE WITH THE CODE.	

1.03 WIND LOADS:

3 SEC. GUST WIND SPEED = 90 MPH  
IMPORTANCE FACTOR,  $I_w = 1.00$   
BUILDING CATEGORY II  
WIND EXPOSURE = C  
INTERNAL PRESSURE COEFFICIENT,  $G_{Cpi} = +/-0.18$   
(INWARD & OUTWARD)

2.00 FOUNDATIONS

2.01 THE DESIGN OF FOUNDATIONS IS BASED ON THE CRITERIA ESTABLISHED BY THE 2007 SOLAR DECATHLON RULES AND REGULATIONS DATED MAY 3, 2006, AND INCLUDES AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.

3.00 STRUCTURAL STEEL

3.01 ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", DATED JUNE 1, 1989, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, DATED DECEMBER 1, 1993, AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", ADOPTED JUNE 10, 1992.

3.02 SHOP DRAWINGS PREPARED IN ACCORDANCE WITH THE LATEST "STRUCTURAL STEEL DETAILING MANUAL" OF THE AISC SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.

3.03 UNLESS NOTED OTHERWISE, STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, GRADE 50. CHANNELS, ANGLES AND PLATES MAY BE ASTM A36 UNLESS NOTED OTHERWISE. SQUARE AND RECTANGULAR TUBES SHALL CONFORM TO ASTM A500, GRADE B. ROUND PIPES SHALL CONFORM TO ASTM A53, GRADE B.

3.04 STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED, AS NOTED ON DRAWINGS.

A) . BOLTED JOINTS SHALL CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A490 BOLTS". BOLTS SHALL CONFORM TO ASTM A325, AND SHALL BE MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE. BOLTS FOR MOMENT FRAMES AND DIAGONAL BRACING CONNECTIONS SHALL BE CONSIDERED SLIP CRITICAL; ALL OTHERS MAY BE CONSIDERED BEARING TYPE UNLESS OTHERWISE NOTED. PROVIDE DIRECT TENSION INDICATORS (LOAD INDICATING WASHERS OR SNAP OFF BOLTS) IN ACCORDANCE WITH ASTM F959 AT ALL HIGH STRENGTH BOLTS.

B) . WELDS SHALL CONFORM TO THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY, AWS D1.1. USE E70XX ELECTRODES. WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATIONS PROCEDURES". WELDERS SHALL CARRY PROOF OF QUALIFICATIONS ON THEIR PERSONS.

3.05 ANCHOR BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.

3.06 DO NOT USE GAS CUTTING TORCHES FOR CORRECTING FABRICATION ERRORS IN THE STRUCTURAL FRAMING.

3.07 WHEN SPECIFICALLY NOT DETAILED ON THE DESIGN DRAWINGS PROVIDE THE GREATER OF ONE OF THE FOLLOWING BEAM END CONNECTIONS:

MINIMUM 5/16" THICK DOUBLE ANGLE SHEAR CONNECTION, FULL DEPTH OF THE BEAM, WELDED OR BOLTED WITH VERTICAL BOLT SPACING = 3", OR

WHERE BEAM REACTIONS ARE SHOWN, CONNECTIONS SHALL DEVELOP THE REACTION GIVEN, OR

WHEN BEAM REACTIONS ARE NOT SHOWN, CONNECTIONS SHALL BE PROPORTIONED TO SUPPORT 60% OF THE MAX. FACTORED UNIFORM LOAD CAPACITY (ULC) SHOWN IN THE FACTORED UNIFORM LOAD TABLES, OF THE AISC LRFD MANUAL, FOR THE GIVEN BEAM, SPAN, AND GRADE OF STEEL SPECIFIED. FOR COMPOSITE BEAMS, PROPORTION CONNECTIONS FOR 100% OF THE ULC.

CONNECTIONS SHALL BE PROPORTIONED FOR THE ECCENTRICITY BETWEEN THE CONNECTION CENTROID AND THE CENTROID OF THE SUPPORTING MEMBER.

3.08 PROVIDE A SHOP COAT OF STANDARD PRIMER PAINT. PRIMER TO BE COMPATIBLE WITH FINISH COAT. TOUCH UP AREAS DAMAGED IN HANDLING AND ERECTION WITH THE SAME PAINT USED FOR SHOP COAT. STEEL SURFACES TO BE WELDED OR ENCASED IN CONCRETE OR FIREPROOFING, CONNECTIONS DESIGNATED AS SLIP CRITICAL TYPE, OR SURFACES RECEIVING WELDED SHEAR CONNECTORS IN THE FIELD SHALL NOT BE PAINTED.

3.9 STEEL CONSTRUCTION SHALL BE INSPECTED BY A QUALIFIED TESTING AGENCY.

A) . BOLTED CONNECTIONS SHALL BE INSPECTED IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS".  
B) . ALL FILLET WELDS SHALL BE VISUALLY INSPECTED.  
C) . ALL PENETRATION WELDS SHALL BE TESTED IN ACCORDANCE WITH ASTM E164.  
D) . WRITTEN REPORTS SHALL BE SUBMITTED DESCRIBING ALL INSPECTIONS AND INDICATING ANY NON-CONFORMING WORK.  
E) . RE-INSPECT NON-CONFORMING WORK AFTER IT IS CORRECTED.

3.10 PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.

4.00 COLD FORMED METAL FRAMING

4.01 UNLESS NOTED OTHERWISE, COLD-FORMED METAL FRAMING SHALL COMPLY WITH ASTM C645, A568, AND A446. ALL MEMBERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A525, OR ALUMINUM/ZINC COATED IN ACCORDANCE WITH ASTM A792.

5.00 WOOD

date	description	revision

consultants:



prepared by:

Jamie O'Kelley

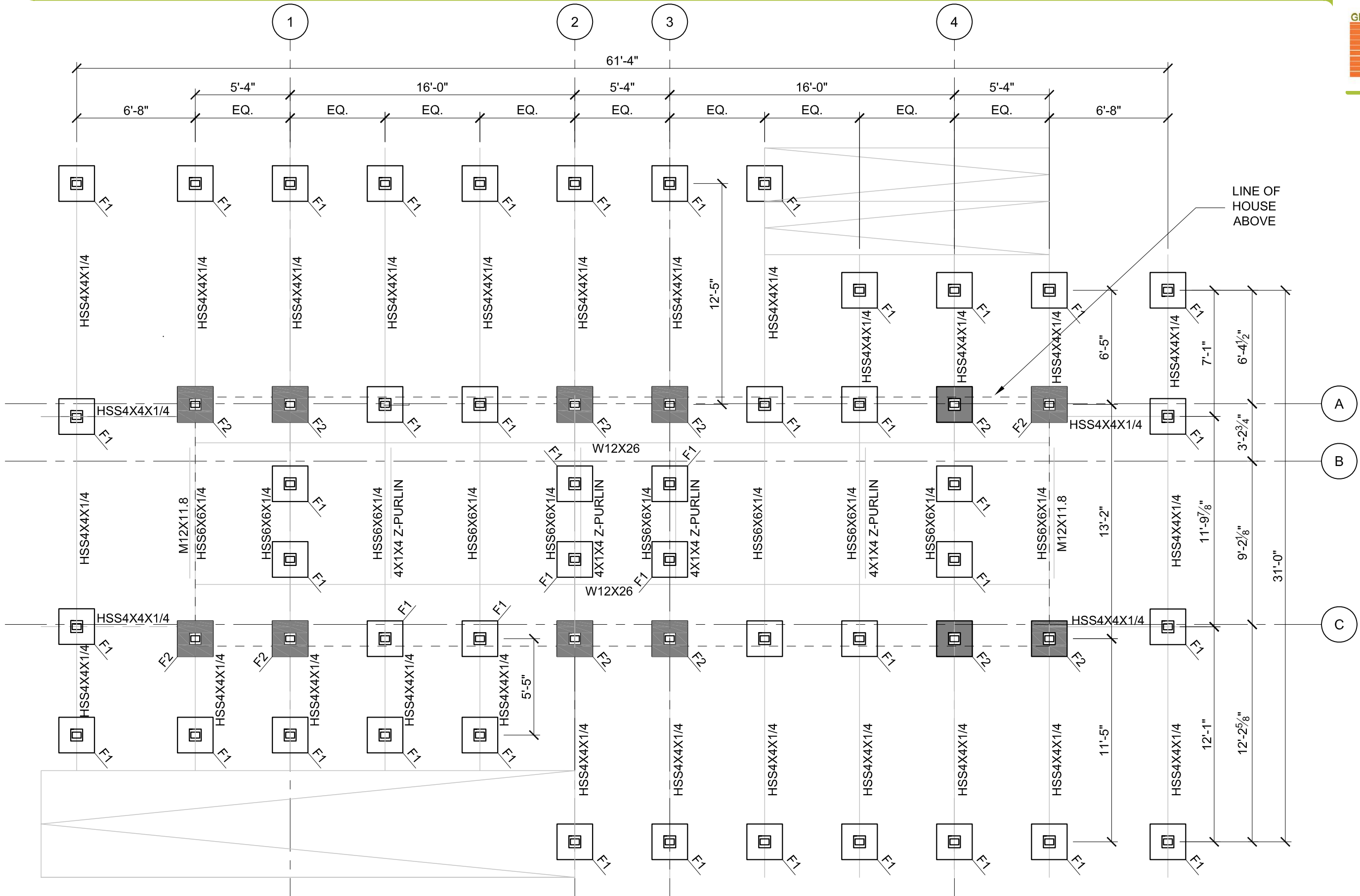
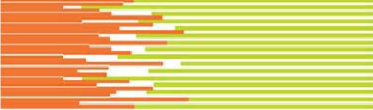
date drawn:

12.04.06

scale: none

S.O.O

STRUCTURAL GENERAL NOTES



1  
S.1.0

# PIER PLAN



date

description

revision

consultants:



prepared by:

JAMIE O'KELLEY  
C.VAN KLEY

date drawn:

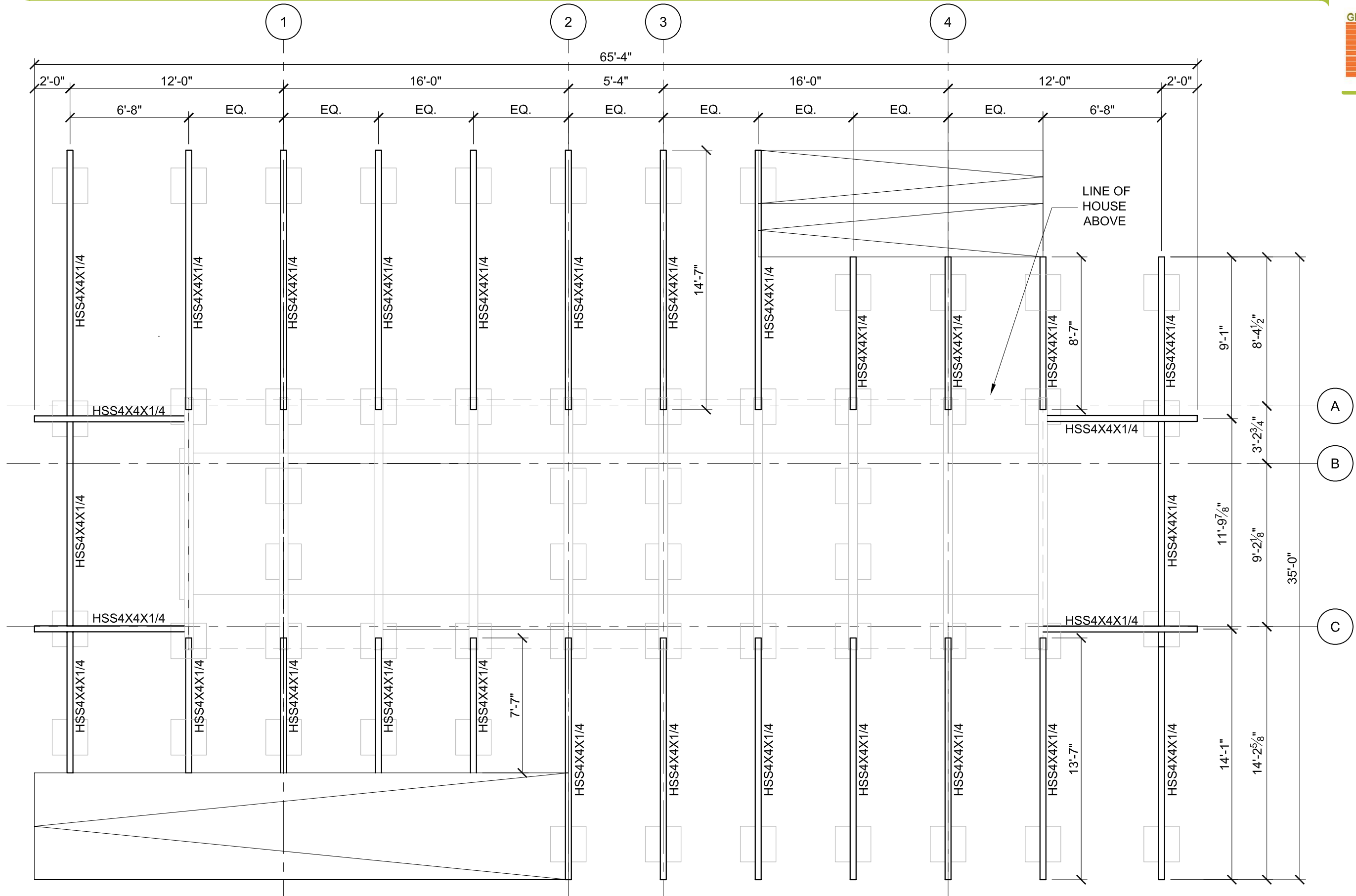
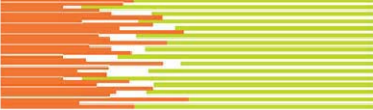
12.04.06  
3.06.07



scale: 3/16"=1'-0"

S.1.0

PIER PLAN



1  
S.1.0a

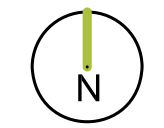
# DECK FRAMING PLAN

date
description
revision

consultants:



prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.06.07**

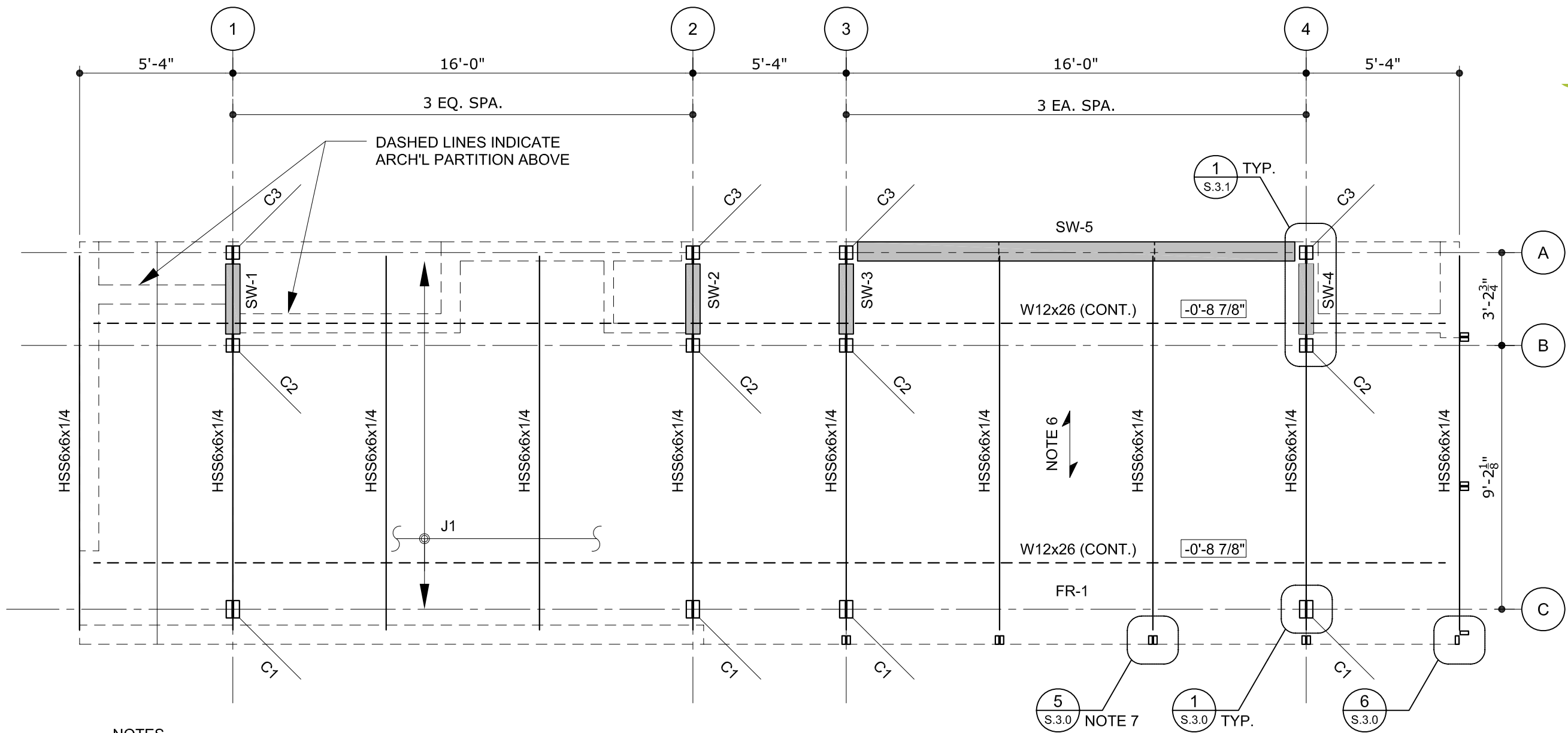


scale: **3/16"=1'-0"**

S.1.0a

DECK FRAMING PLAN





NOTES

1. **+X'-X"** INDICATES TOP OF STEEL ELEVATION WITH RESPECT TO FINISHED FLOOR ELEVATION OF **+0'-0"**. TOP OF STEEL ELEVATION AT FLOOR IS **-0'-2 7/8"** U.N.O.
2. **"SW-1"** INDICATES STRUCTURAL WOOD PANEL SHEARWALL CONSISTING OF TWO LAYERS OF 3/4" APA RATED PLYWOOD SHEATHING, 32/16 SPAN RATING, EXPOSURE 1. SEE SHEET S.2.0 FOR FASTENING SCHEDULE.
3. **"FR-1"** INDICATES STRUCTURAL BRACED FRAME. SEE FRAME ELEVATION ON SHEET S.2.0.
4. **"C1"** INDICATES COMPOSITE WOOD/ STEEL COLUMN. SEE SHEET S.2.1 FOR COMPOSITE COLUMN SCHEDULE.
5. **"J1"** INDICATES CONTINUOUS 2x8 (NOMINAL) WOOD JOISTS @ 16" o/c.
6. **NOTE 6** INDICATES SPAN OF 3/4" APA RATED PLYWOOD SHEATHING, 32/16 SPAN RATING, EXPOSURE 1.
7. **NOTE 7** INDICATES TYPICAL VERTICAL MULLION. SEE ARCH'L. DRAWINGS FOR LOC'NS.



date	
description	
revision	

consultants:



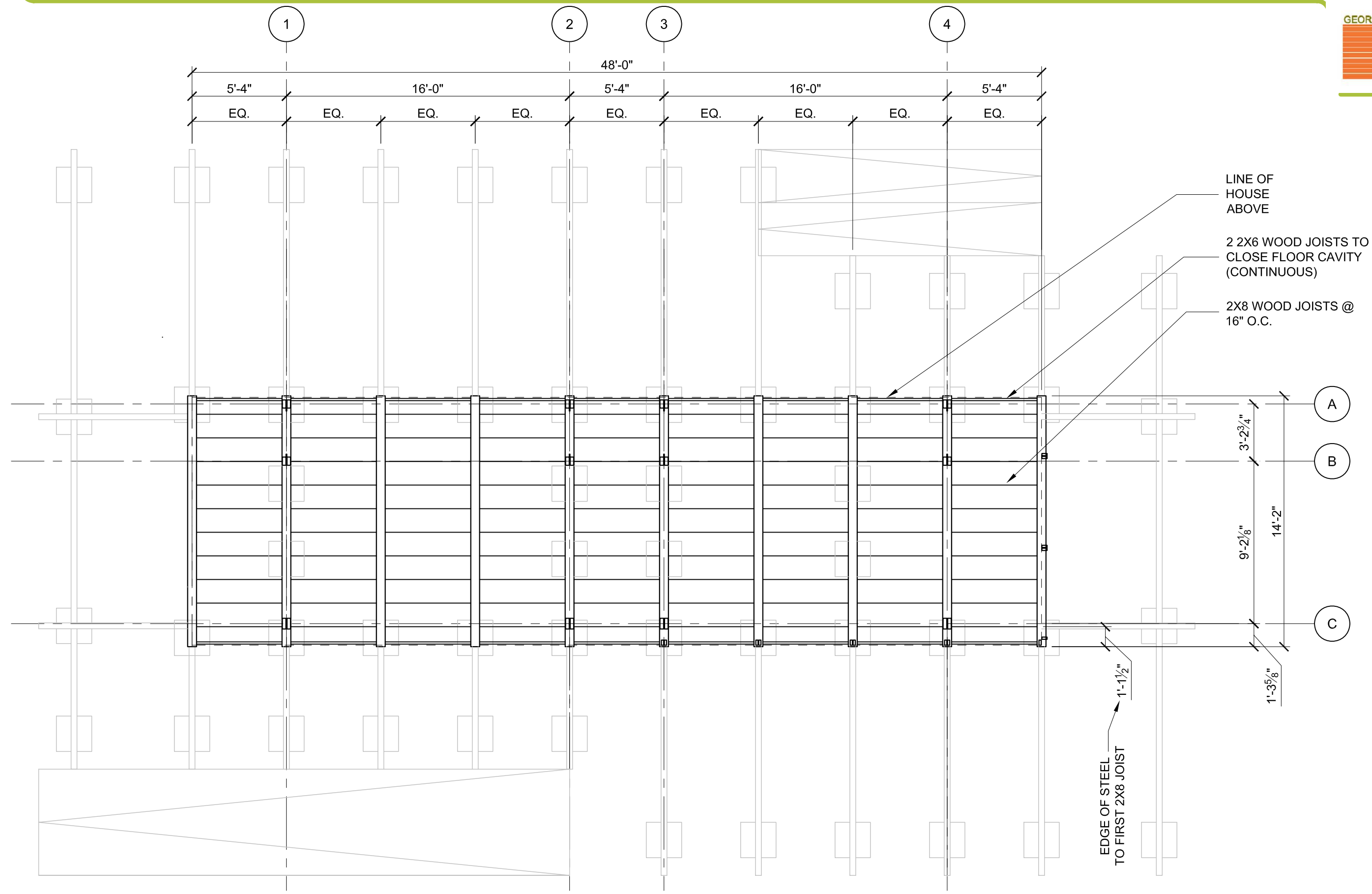
prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**



scale: **1/4"=1'-0"**


**S.1.1**

FLOOR FRAMING PLAN




date	
description	
revision	

consultants:



prepared by:  
**C.VAN KLEY**

date drawn:  
**3.06.07**

  
scale: **3/16"=1'-0"**

**S.1.1a**

**FLOOR WOOD FRAMING**

1 WOOD FRAMING PLAN

S.1.1a





- 1  
S.1.2

revision	description	date

*consultants:*



*prepared by:*

**Jamie O'Kelley**

date drawn:

12.04.06



scale: **1/4"=1'-0"**

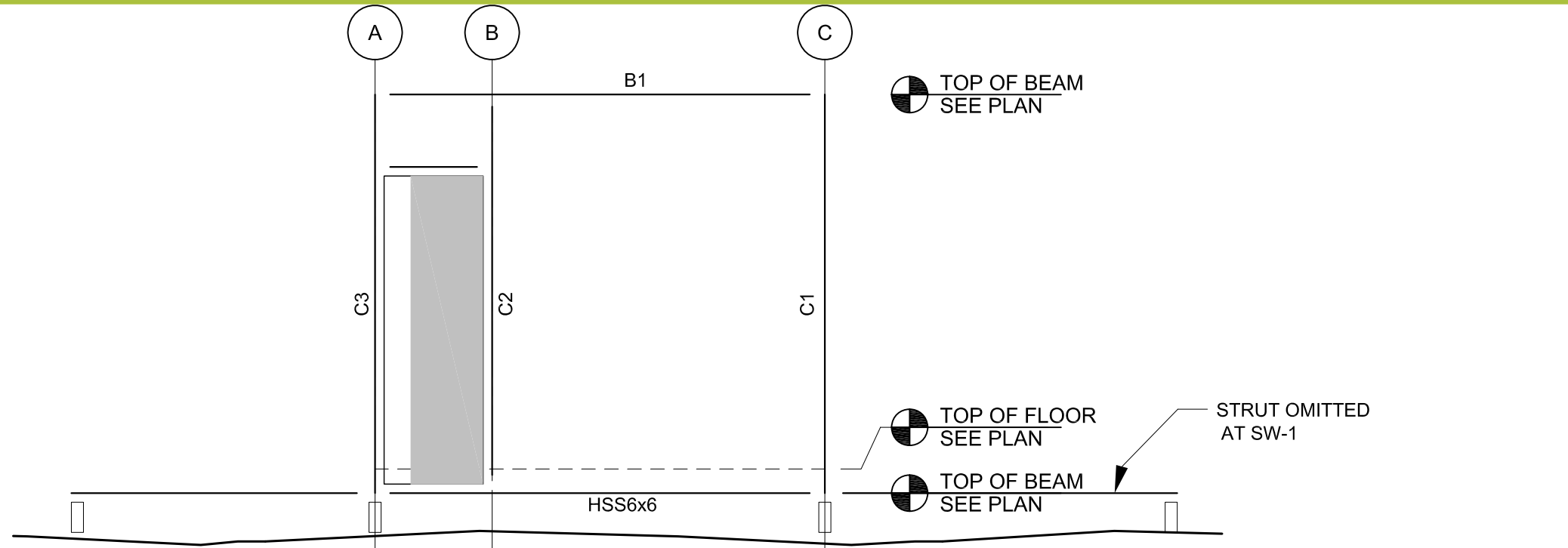
## S.1.2

# CLERESTORY FRAMING PLAN

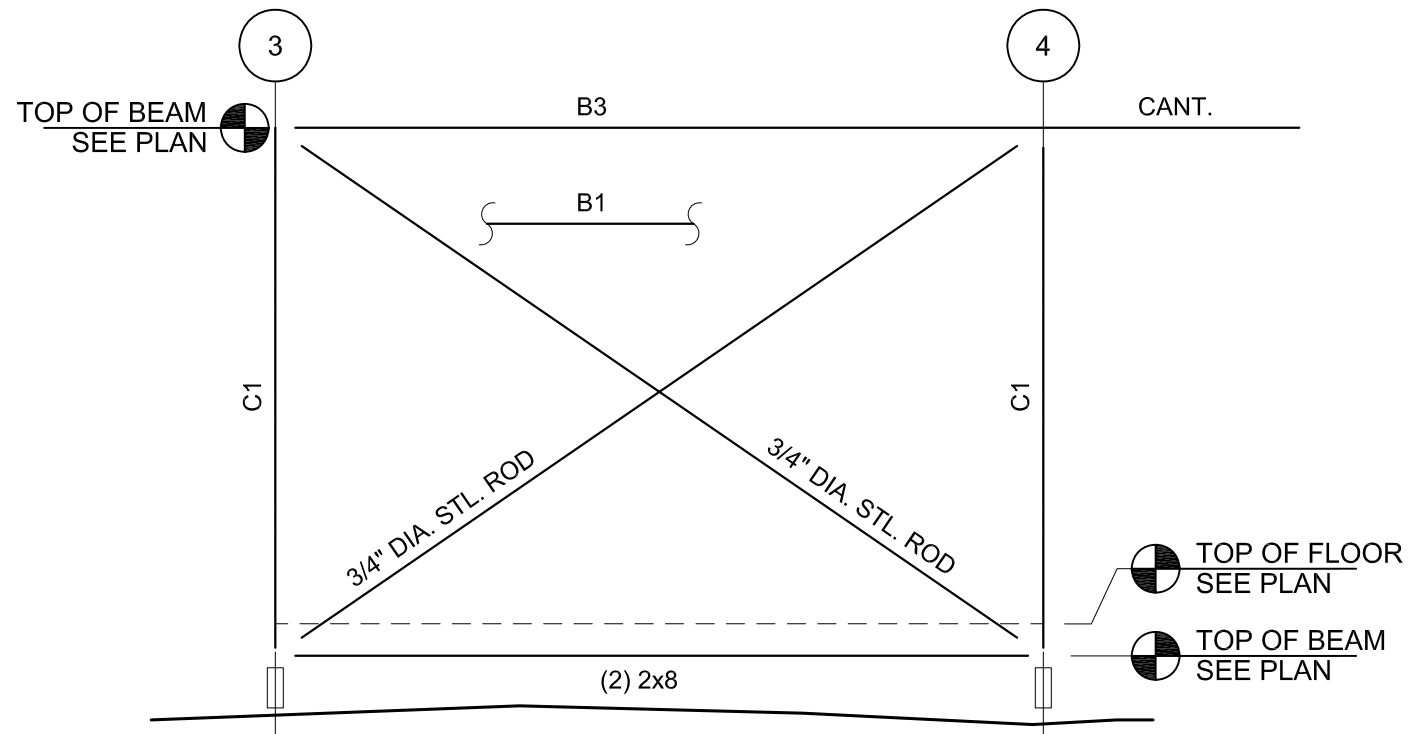


- |    |   |  |
|----|---|--|
| 1. | <div style="border: 1px solid black; padding: 2px; display: inline-block;">+X'-X"</div> | INDICATES TOP OF STEEL ELEVATION WITH RESPECT TO FINISHED FLOOR ELEVATION OF <div style="border: 1px solid black; padding: 2px; display: inline-block;">+0'-0"</div> .<br>TOP OF STEEL ELEVATION AT UPPER ROOF IS <div style="border: 1px solid black; padding: 2px; display: inline-block;">10'-4"</div> U.N.O. |
| 2. | "FR-1 "   | INDICATES STRUCTURAL BRACED FRAME. SEE FRAME ELEVATIONS ON SHEET S.2.0.  |
| 3. | "B2"  | INDICATES COMPOSITE WOOD/ STEEL BEAM. SEE SHEET S.2.1 FOR COMPOSITE BEAM SCHEDULE.   |

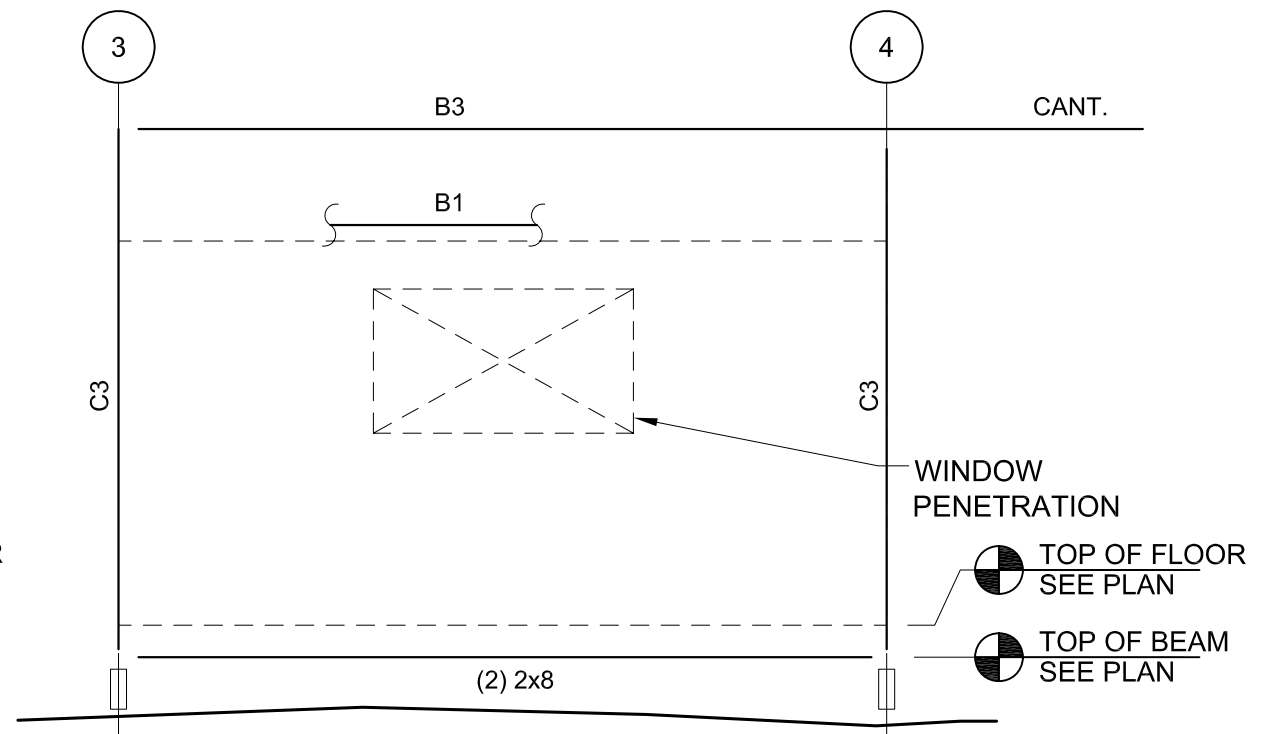




2  
S.2.0  
**STRUCTURAL FRAME ELEVATION**  
AT SHEARWALLS SW-1,SW-2,SW-3,SW-4



3  
S.2.0  
**STRUCTURAL FRAME ELEVATION**  
AT FRAME FR-2



1  
S.2.0  
**STRUCTURAL FRAME ELEVATION**  
AT SHEARWALL SW-5

date

description

revision

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



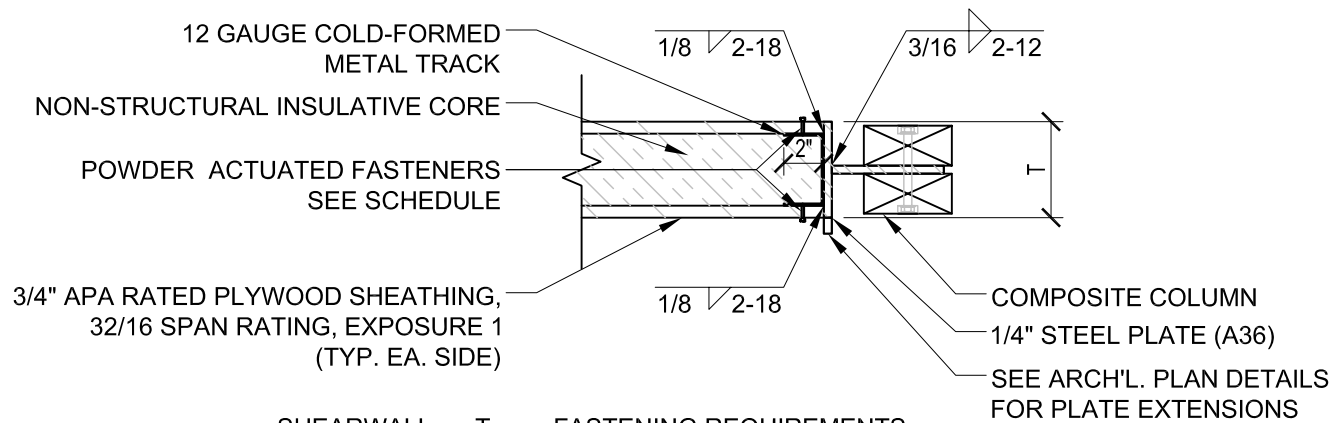
prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**

scale: **as noted**

S.2.0

STRUCTURAL FRAME ELEVATIONS



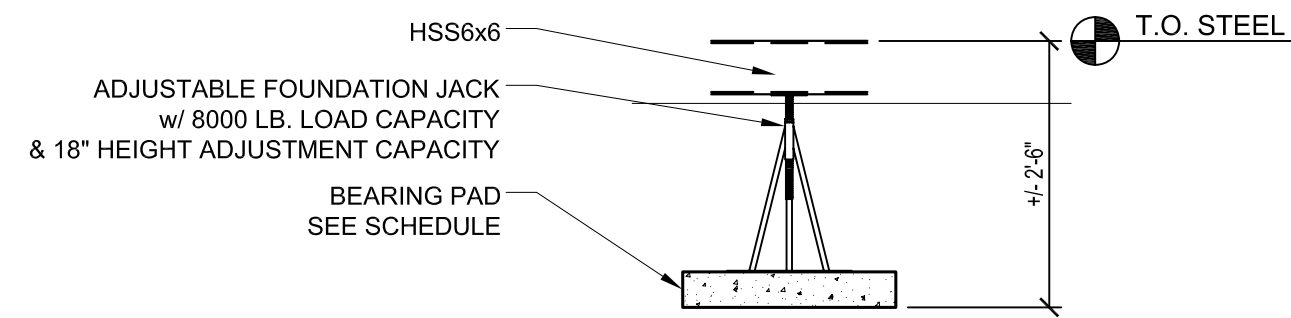


SHEARWALL	T	FASTENING REQUIREMENTS
SW-1, SW-2 SW-3, SW-4	6"	0.145" DIA. POWDER ACTUATED FASTENERS @ 6" o.c. BOTH SIDES AND AT ALL EDGES
SW-5	8"	0.145" DIA. POWDER ACTUATED FASTENERS @ 6" o.c. BOTH SIDES AND AT ALL EDGES

4

SHEARWALL SCHEDULE

S.2.1

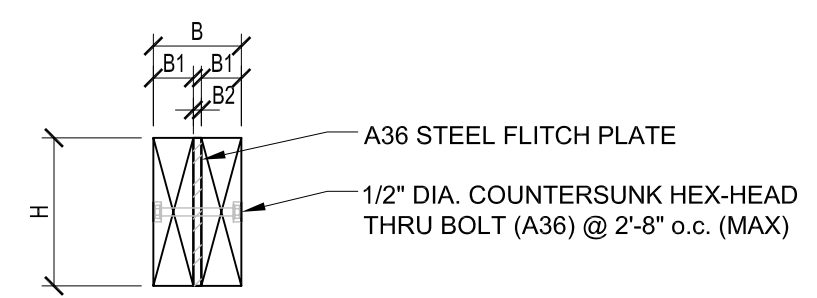


FOOTING	SIZE	DESCRIPTION
F1	4" X 2'-0" X 2'-0"	2500PSI CONCRETE
F2	1'-0" X 2'-0" X 2'-0"	2500PSI CONCRETE WITH 3-#4x1'-8" HORIZ. REINF. EA. WAY

3

FOOTING SCHEDULE

S.2.1

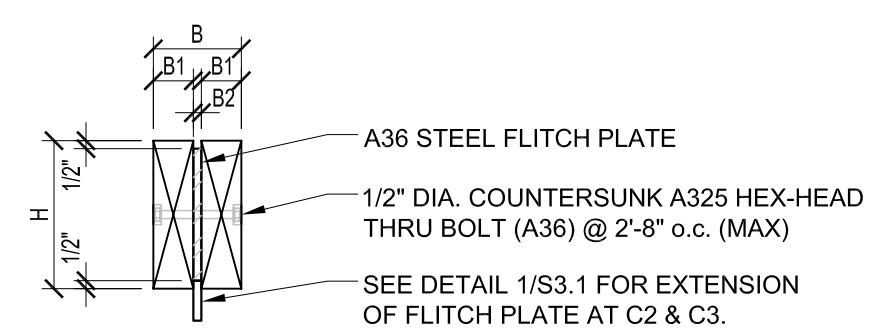


BEAM	B	B1	B2	H	WOOD SPECIES & GRADE
B1	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)
B2	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)
B3	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)

2

COMPOSITE BEAM SCHEDULE

S.2.1



COLUMN	B	B1	B2	H	WOOD SPECIES & GRADE
C1	5-1/2"	2-1/2"	1/2"	7-1/4"	FIR-LARCH (SELECT STRUCTURAL)
C2	5-1/2"	2-1/2"	1/2"	5-1/2"	FIR-LARCH (SELECT STRUCTURAL)
C3	5-1/2"	2-1/2"	1/2"	5-1/2"	FIR-LARCH (SELECT STRUCTURAL)

1

COMPOSITE COLUMN SCHEDULE

S.2.1

date	
description	
revision	

consultants:

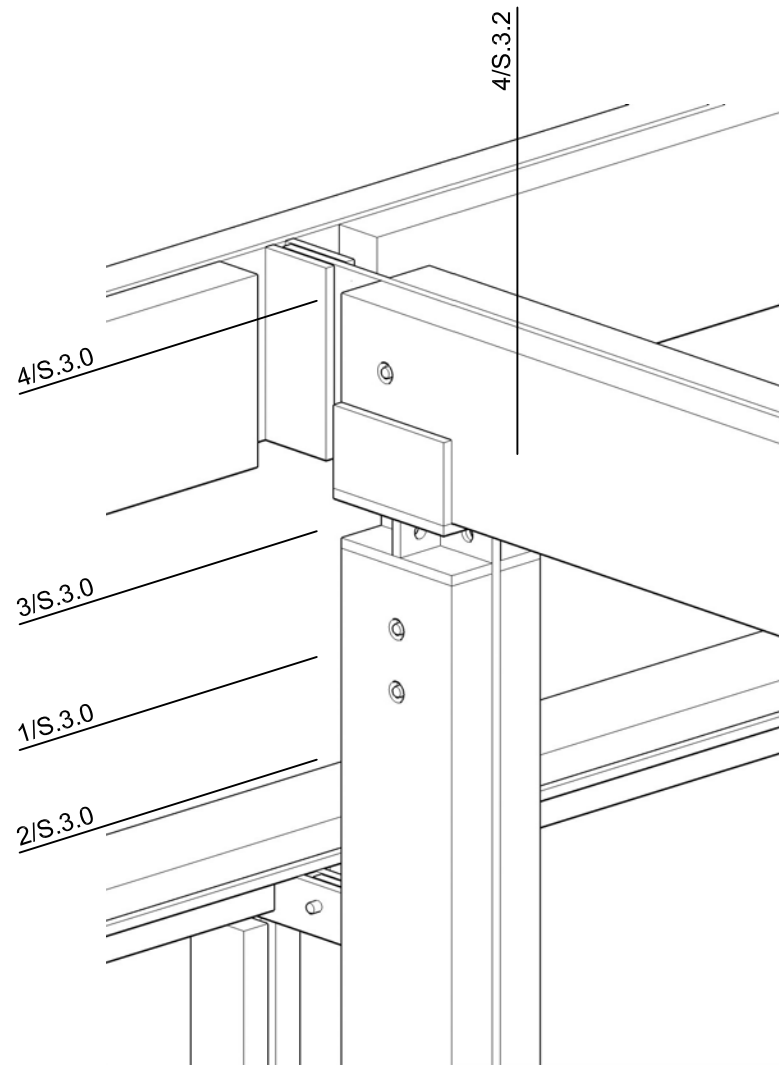


prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**

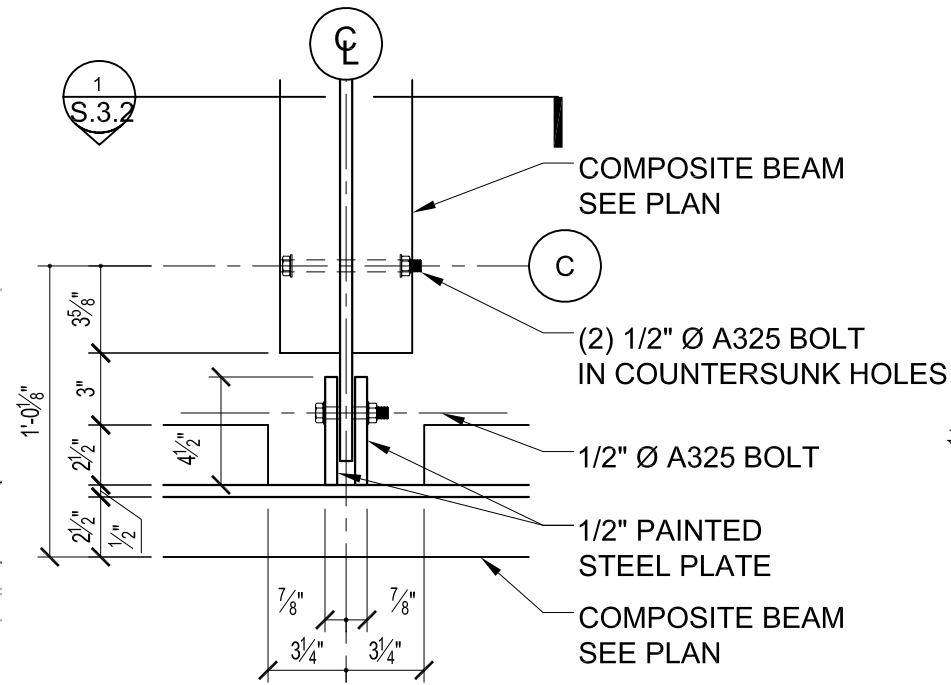
scale: **none**

S.2.1

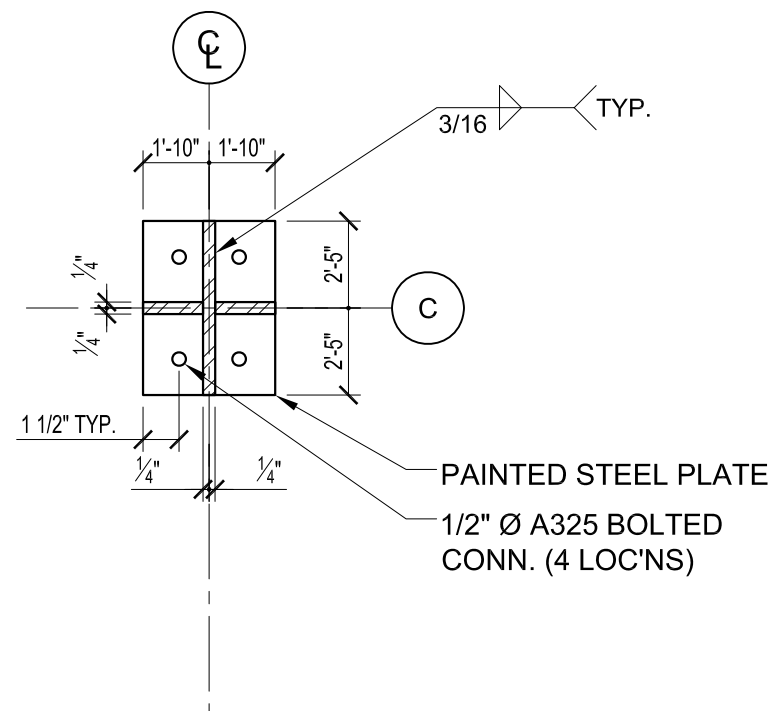
STRUCTURAL MEMBER SCHEDULES



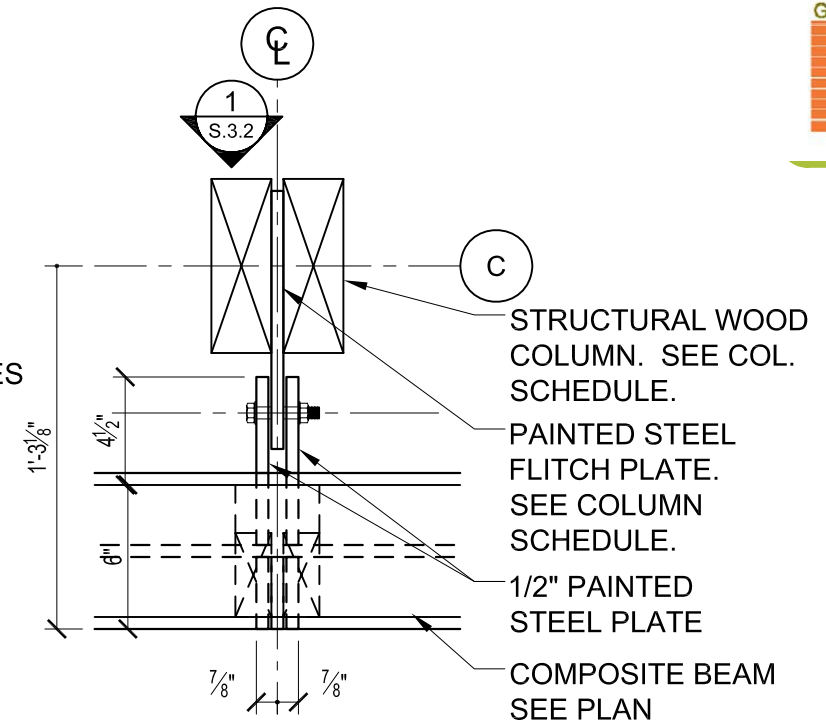
**5**  
**S.3.0** **AXONOMETRIC**  
TYP. POST AT SOUTH WALL



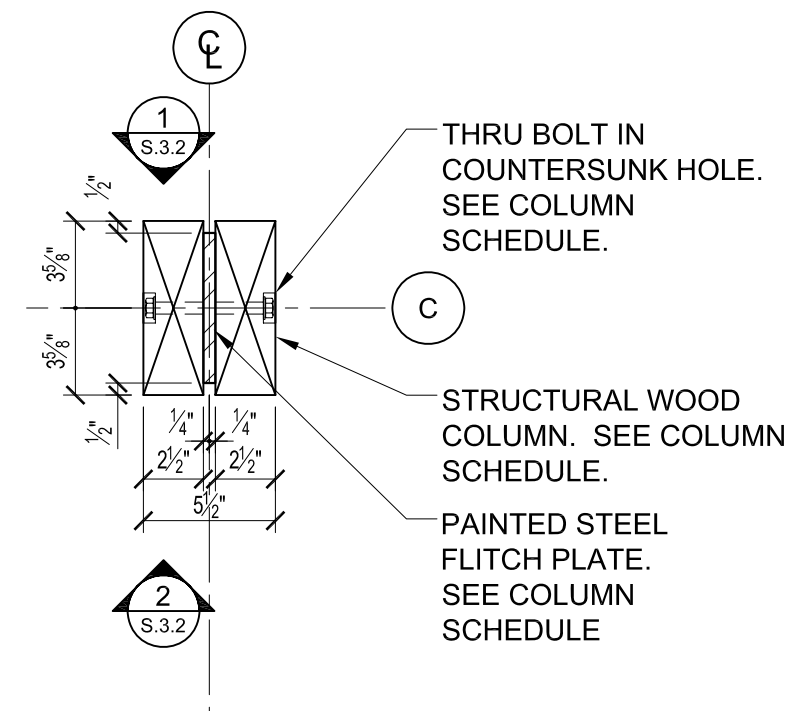
**4**  
**S.3.0** **PLAN DETAIL @ ROOF BEAM**  
TYP. POST AT SOUTH FACADE



**3**  
**S.3.0** **PLAN DETAIL @ STEEL CONNECTION**  
TYP. POST AT SOUTH FACADE



**2**  
**S.3.0** **PLAN DETAIL @ CLERESTORY**  
TYP. POST AT SOUTH FACADE



**1**  
**S.3.0** **PLAN DETAIL @ MID HEIGHT**  
TYP. POST AT SOUTH FACADE

date	
revision	
description	

consultants:

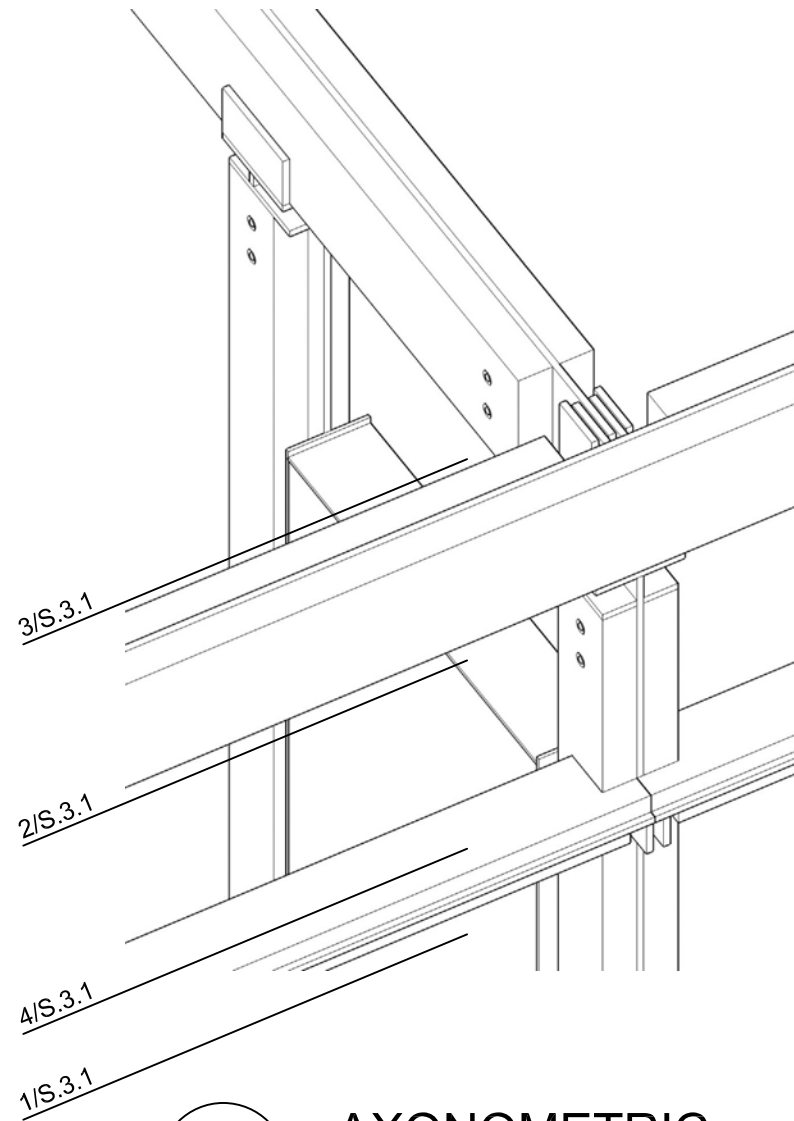


prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**

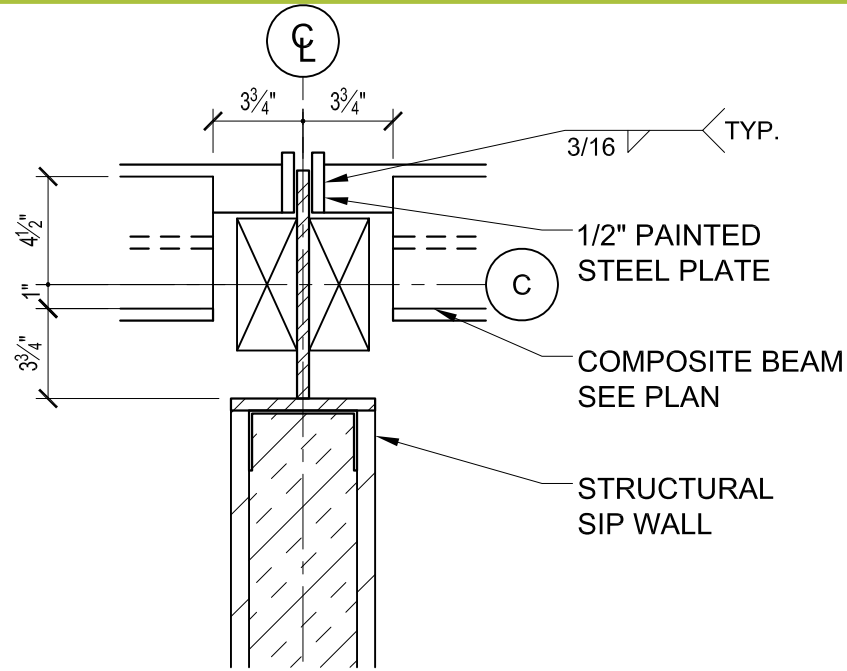
scale: **1.5"=1'-0"**

**S.3.0**

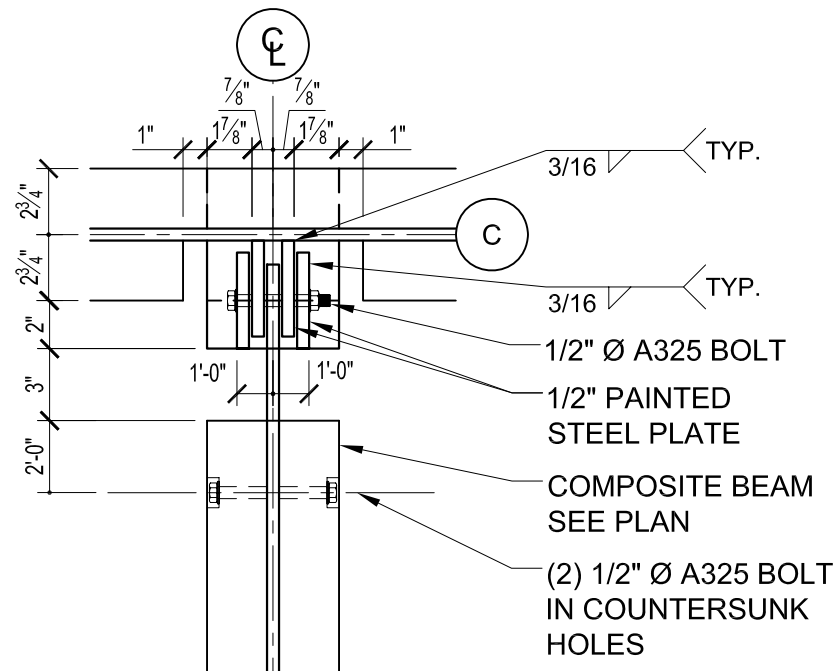
STRUCTURAL ROOF DETAILS



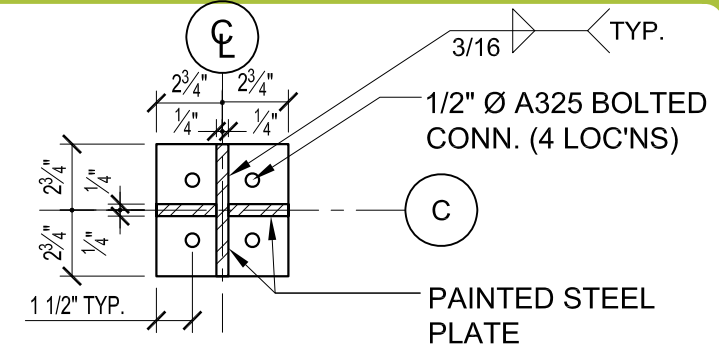
**5**  
**AXONOMETRIC**  
**S.3.1** TYP. POST AT NORTH WALL



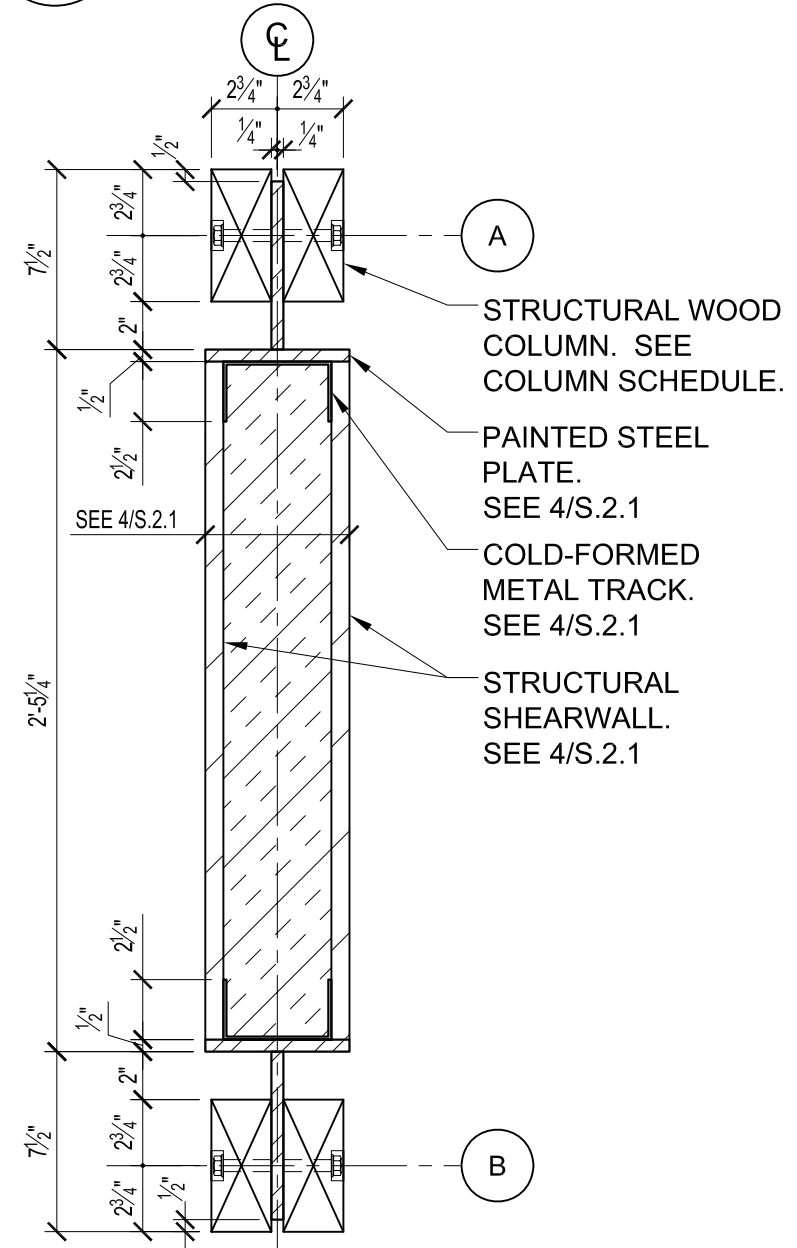
**4**  
**PLAN DETAIL @ CLERESTORY**  
**S.3.1** TYP. POST @ NORTH WALL



**3**  
**PLAN DETAIL @ ROOF**  
**S.3.1** TYP. POST @ NORTH WALL



**2**  
**PLAN DETAIL @ STEEL CONN.**  
**S.3.1** TYP. POST @ NORTH WALL



**1**  
**PLAN DETAIL @ SHEARWALL**  
**S.3.1** TYP. TRANSVERSE SHEAR WALL

date	
description	
revision	

consultants:

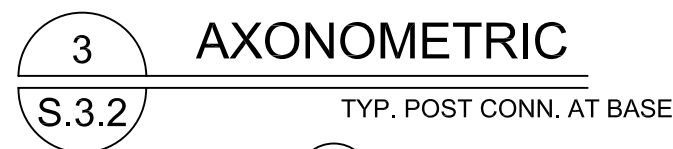


prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**

scale: **1.5"=1'-0"**

**S.3.1**

**STRUCTURAL DETAILS**



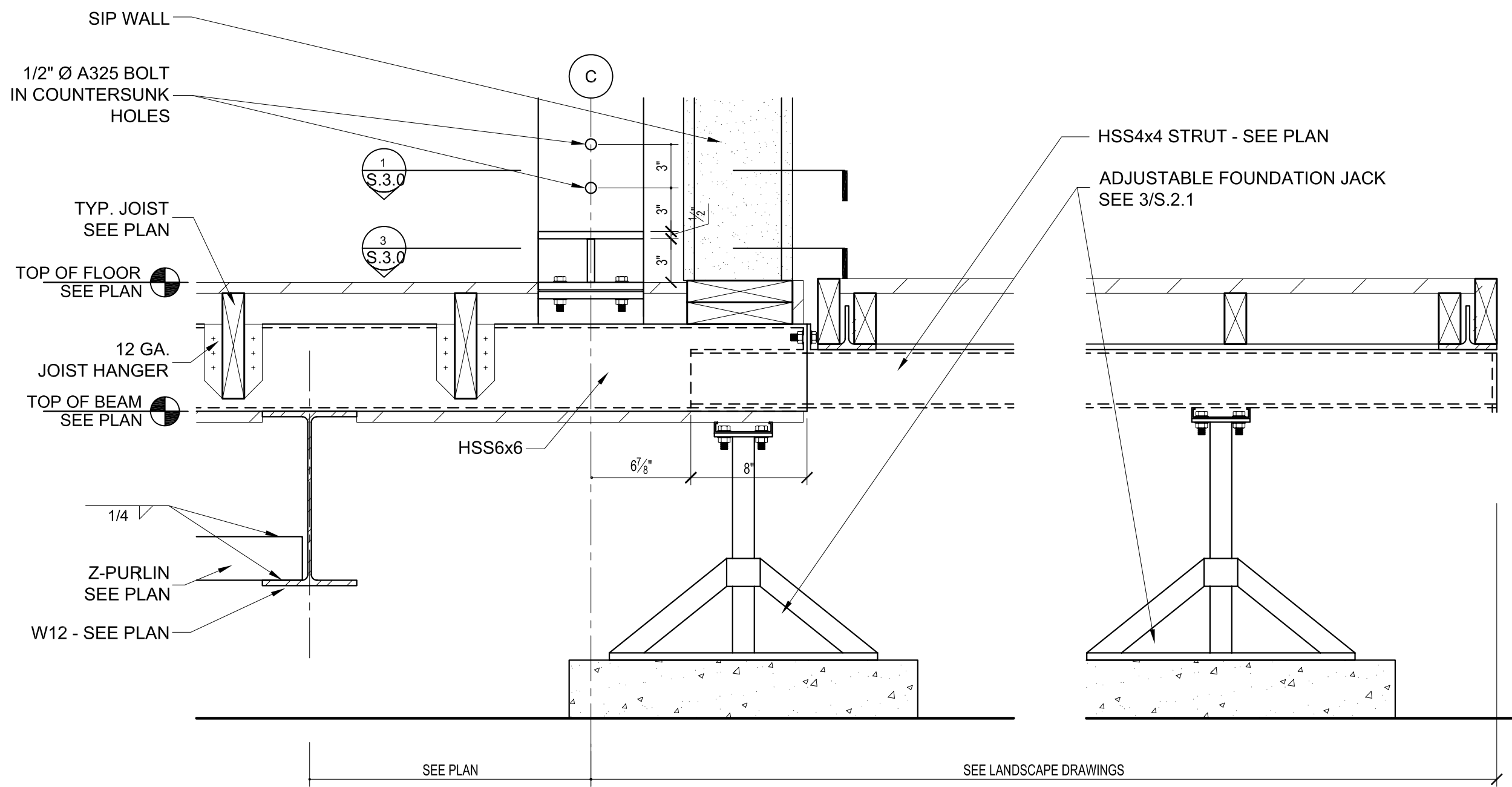
consultants:



scale: **1.5"=1'-0"**

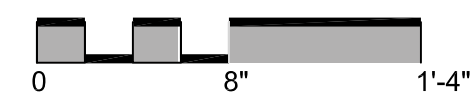
## S.3.2

## STRUCTURAL DETAILS



**2 FLOOR SECTION**  
S.3.3 AT SOUTH WALL

**1 FLOOR SECTION**  
S.3.3 AT SOUTH DECK



date	
description	
revision	

consultants:



prepared by:  
**Jamie O'Kelley**  
**C.VAN KLEY**  
date drawn:  
**12.04.06**  
**3.06.07**

scale: **1.5"=1'-0"**

**S.3.3**

STRUCTURAL FLOOR DETAILS



date	
description	
revision	

consultants:	

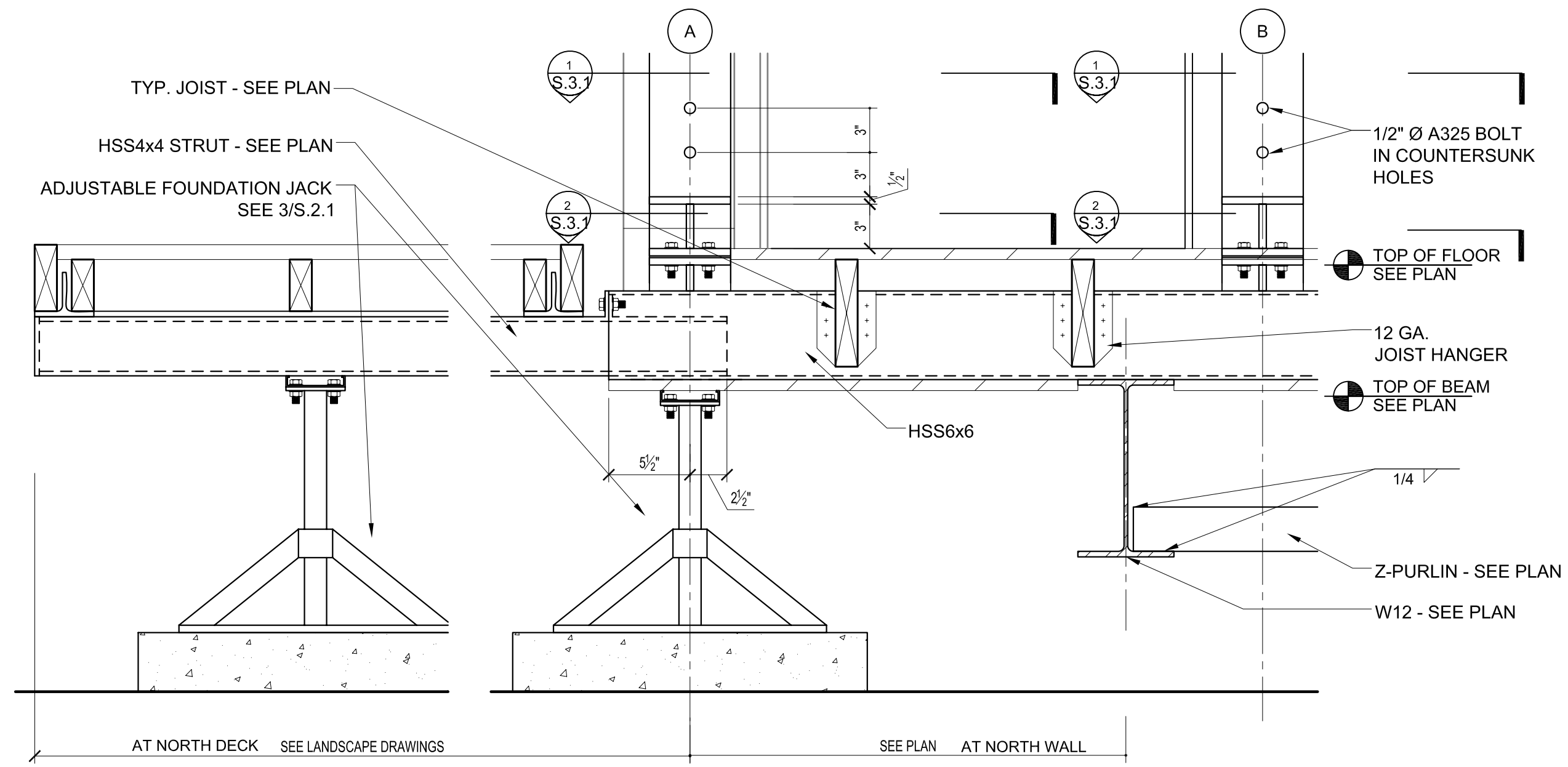


prepared by:  
**Jamie O'Kelley**  
**C.VAN KLEY**  
 date drawn:  
**12.04.06**  
**3.06.07**

scale: **1.5"=1'-0"**

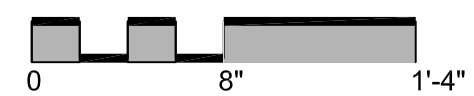
**S.3.4**

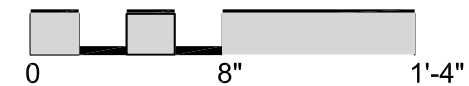
STRUCTURAL FLOOR DETAILS



**2 FLOOR SECTION**  
 S.3.4

**1 FLOOR SECTION**  
 S.3.4



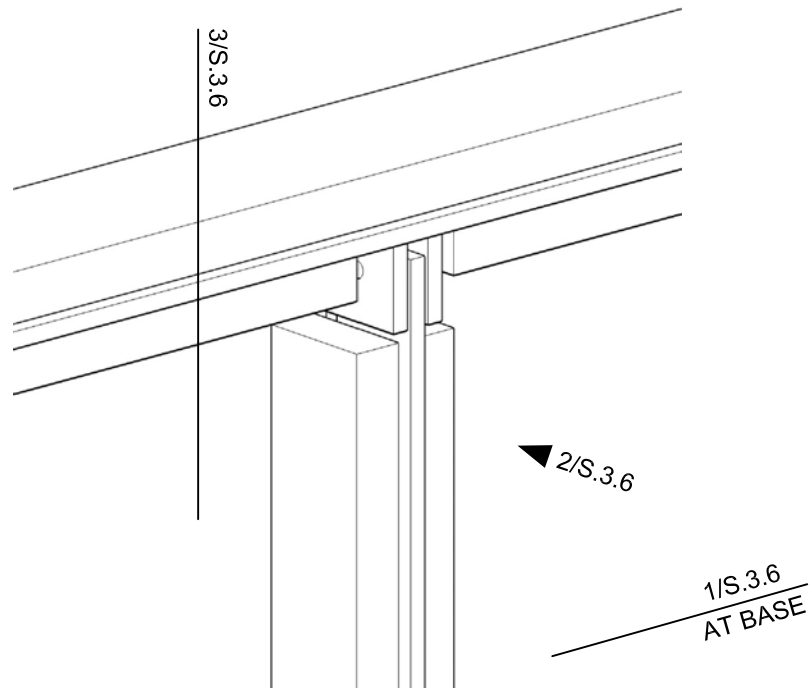


consultants:

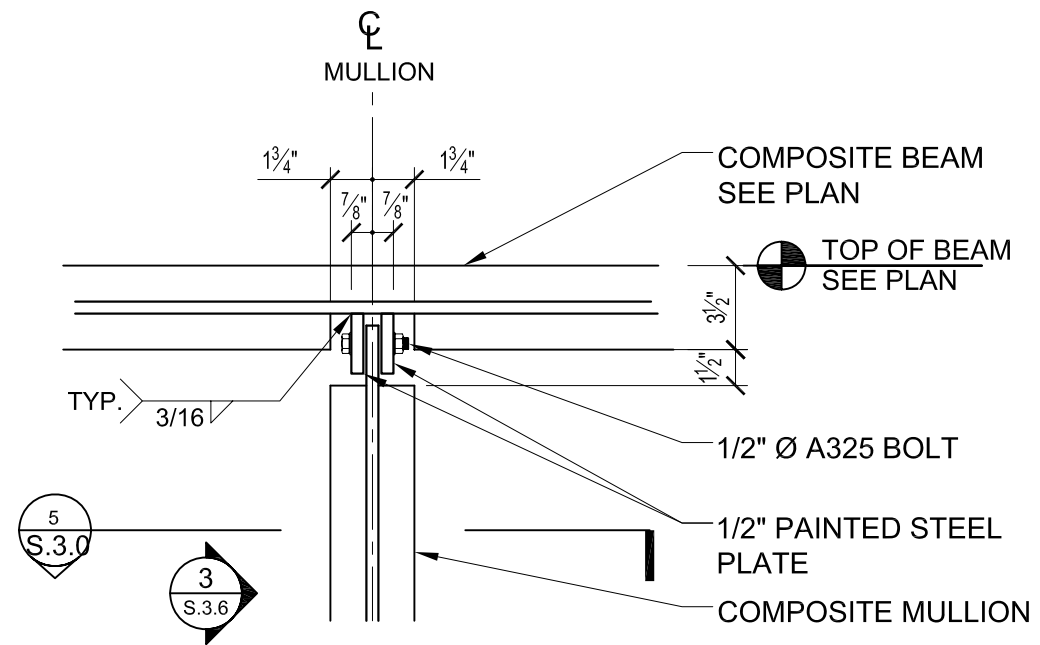
scale: **1.5"=1'-0"**

# S.3.5

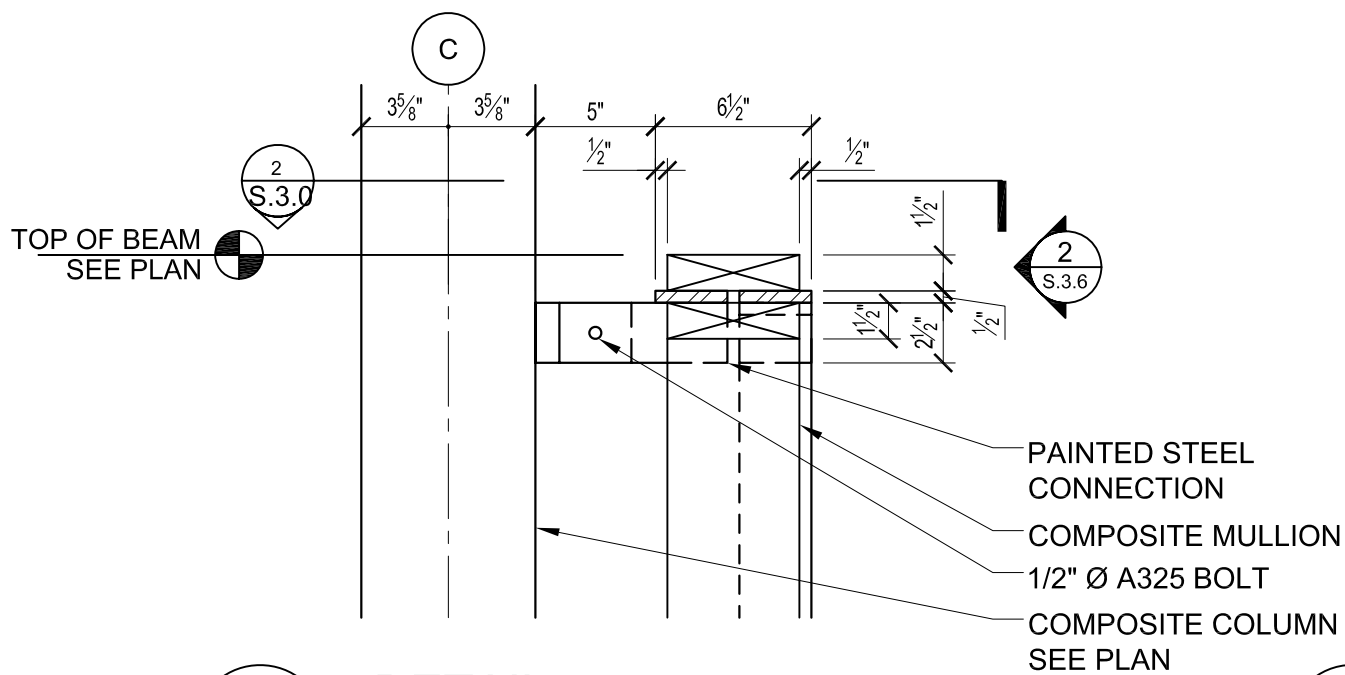
# STRUCTURAL ROOF DETAILS



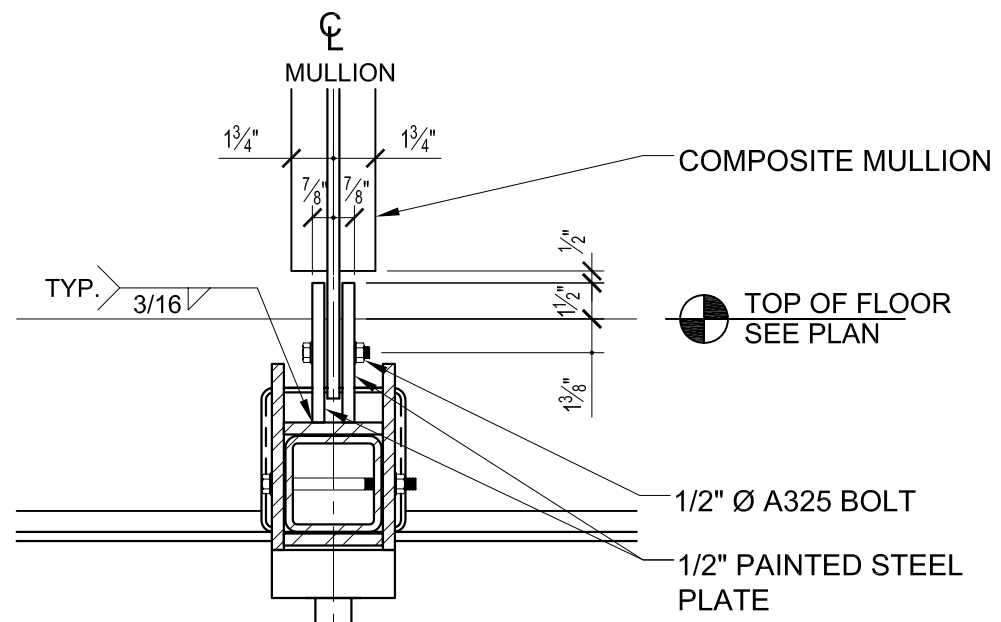
4 AXONOMETRIC  
S.3.6 AT TYP. MULLION



2 DETAIL  
S.3.6 ELEVATION DETAIL AT TYP. MULLION



3 DETAIL  
S.3.6 SECTION DETAIL AT TYP. MULLION



1 DETAIL  
S.3.6 ELEVATION DETAIL AT TYP. MULLION



date

description

revision

consultants:

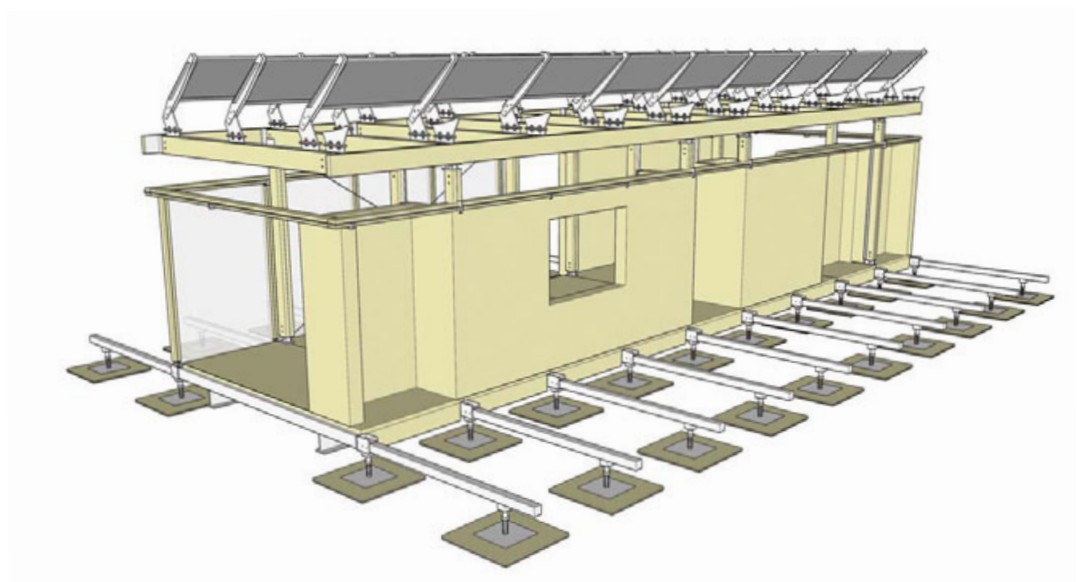


prepared by:  
**Jamie O'Kelley**  
date drawn:  
**12.04.06**

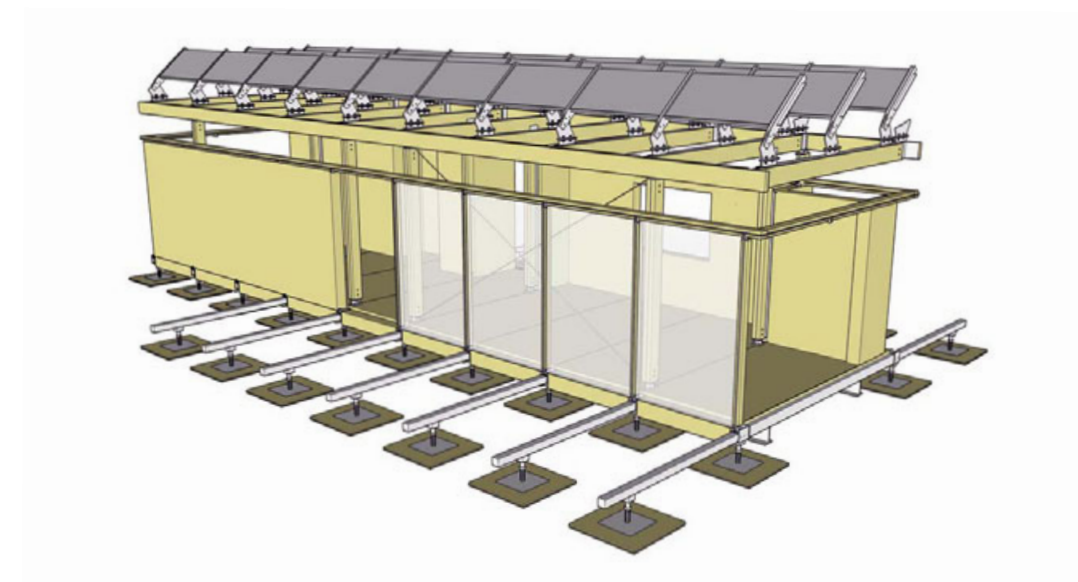
scale: 1.5"=1'-0"

S.3.6

STRUCTURAL DETAILS



2      SOUTHEAST PERSPECTIVE  
S.4.0



1      NORTHEAST PERSPECTIVE  
S.4.0

date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



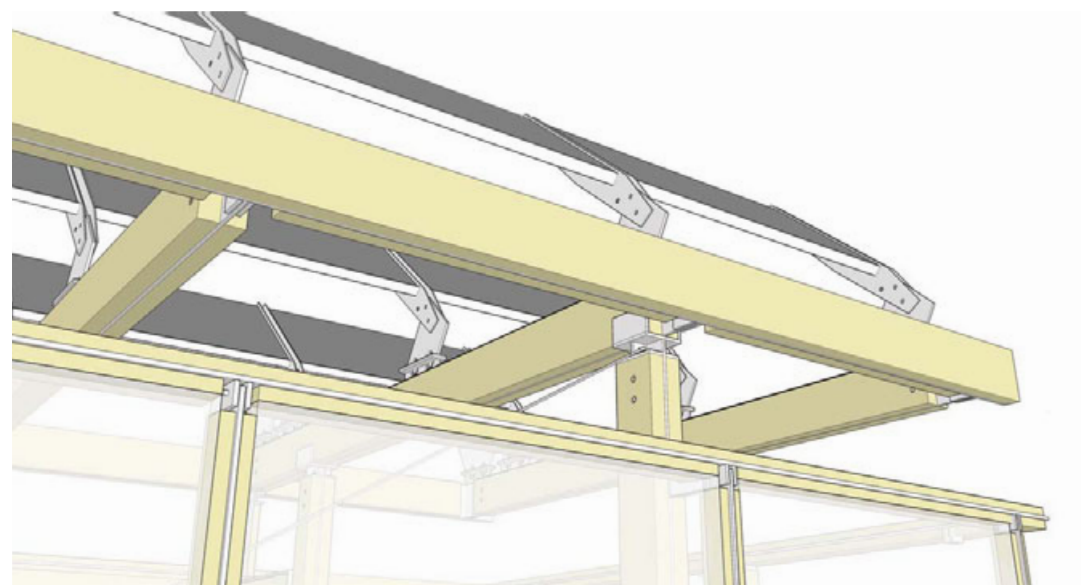
prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.06.07**

scale: **NONE**

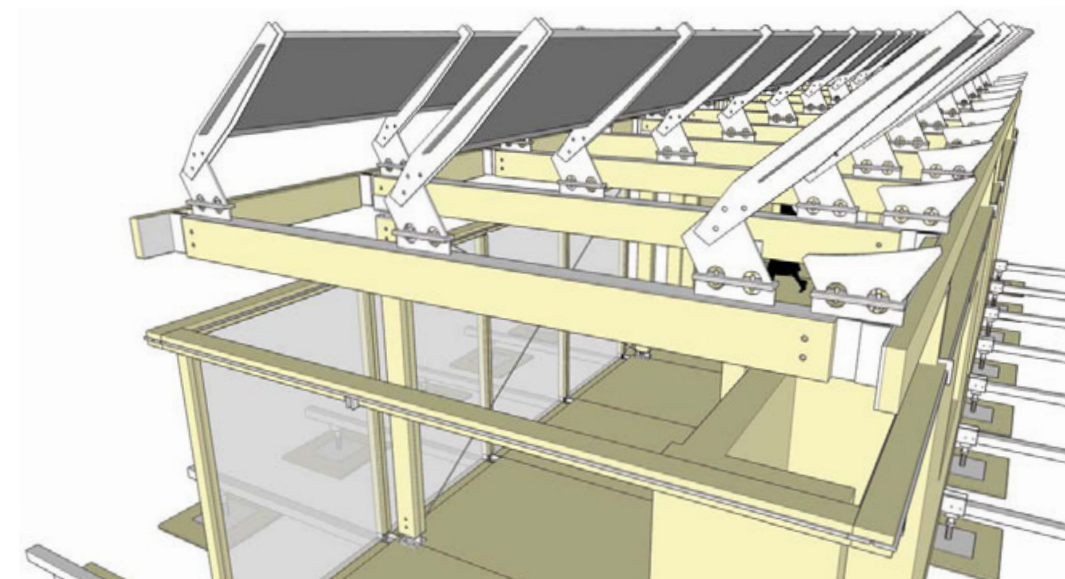
S.4.0

STRUCTURAL IMAGES





4 CLERESTORY DETAIL  
S.4.1



3 CLERESTORY DETAIL  
S.4.1



2 INTERIOR PERSPECTIVE  
S.4.1



1 INTERIOR PERSPECTIVE  
S.4.1

date

description

revision

consultants:



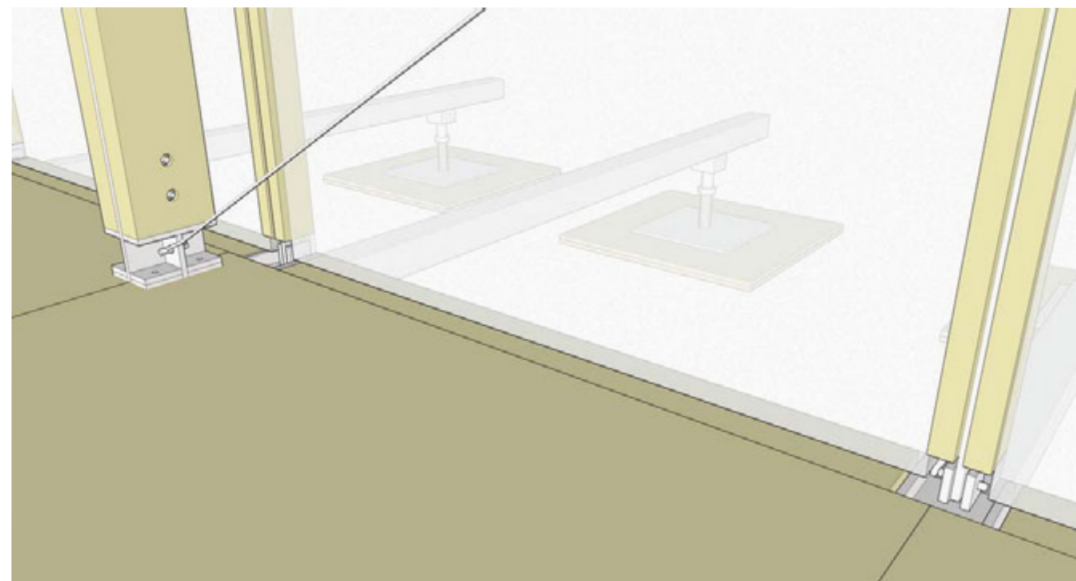
prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.06.07**

scale: **NONE**

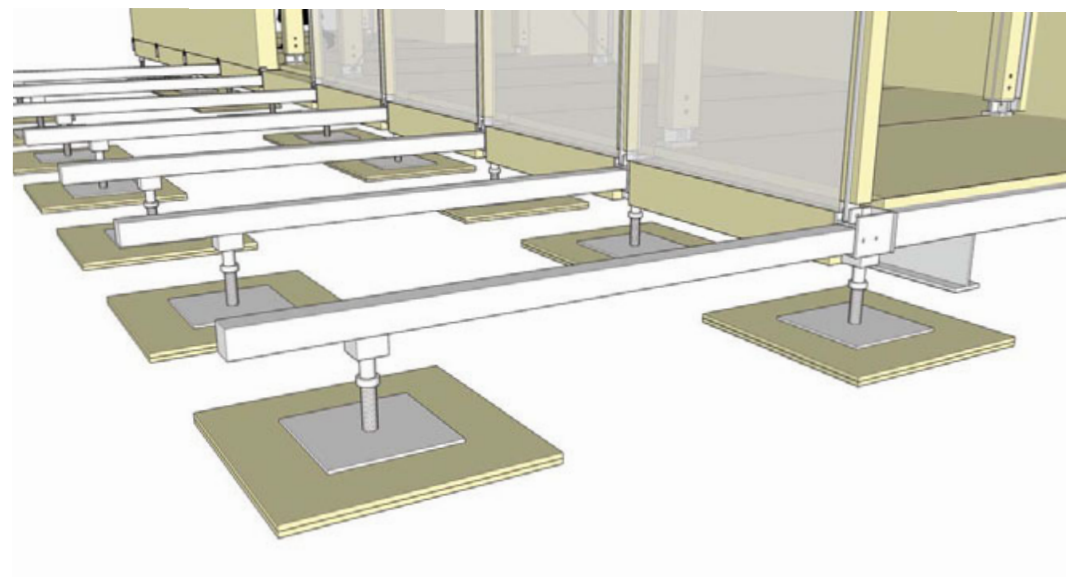
S.4.1

STRUCTURAL IMAGES

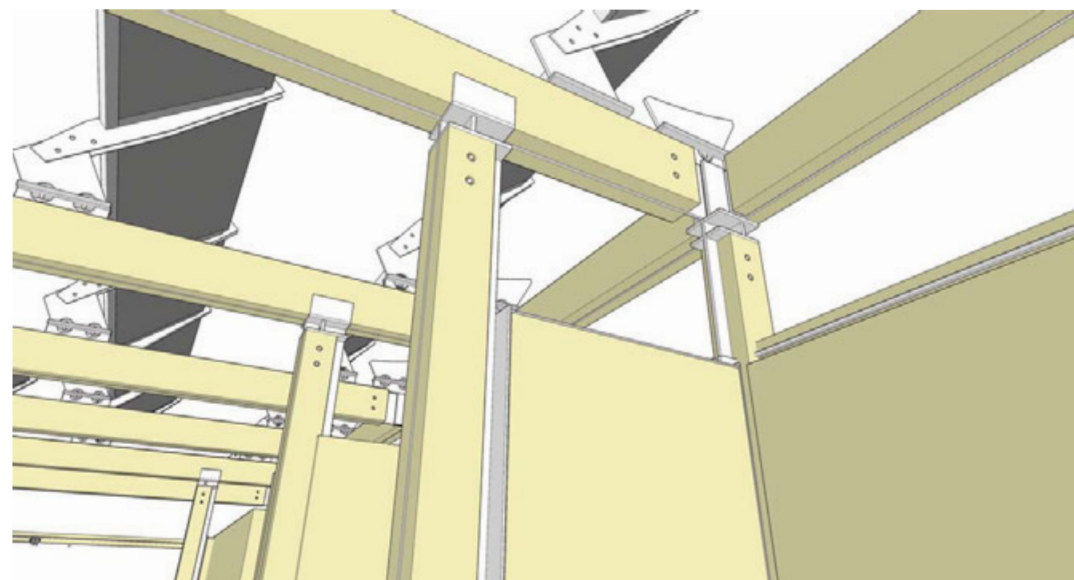




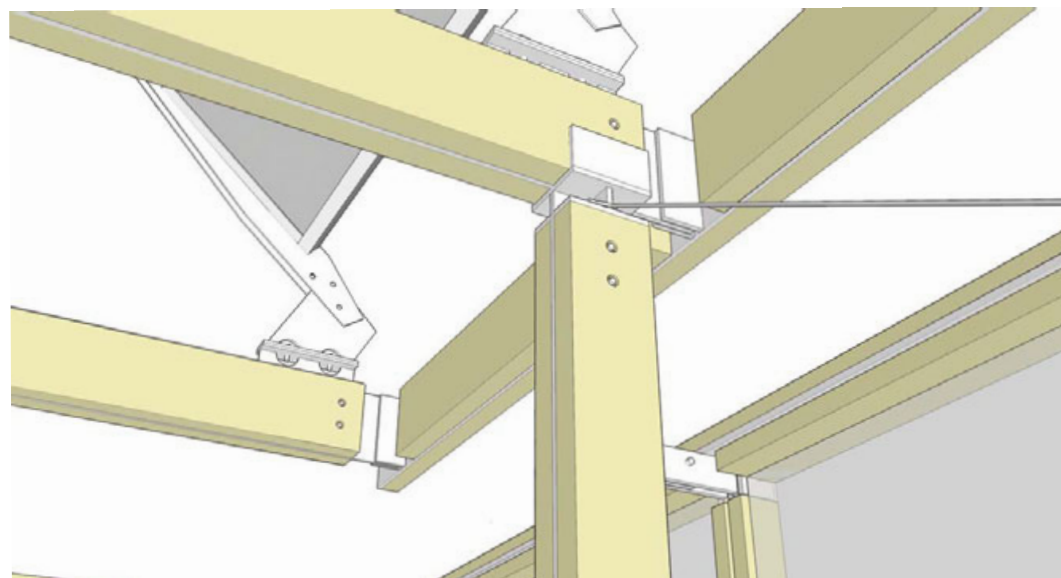
4 CONNECTION DETAIL  
S.4.2



3 FOUNDATION DETAIL  
S.4.2



2 CONNECTION DETAIL  
S.4.2



1 CONNECTION DETAIL  
S.4.2

date	
description	
revision	

consultants:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

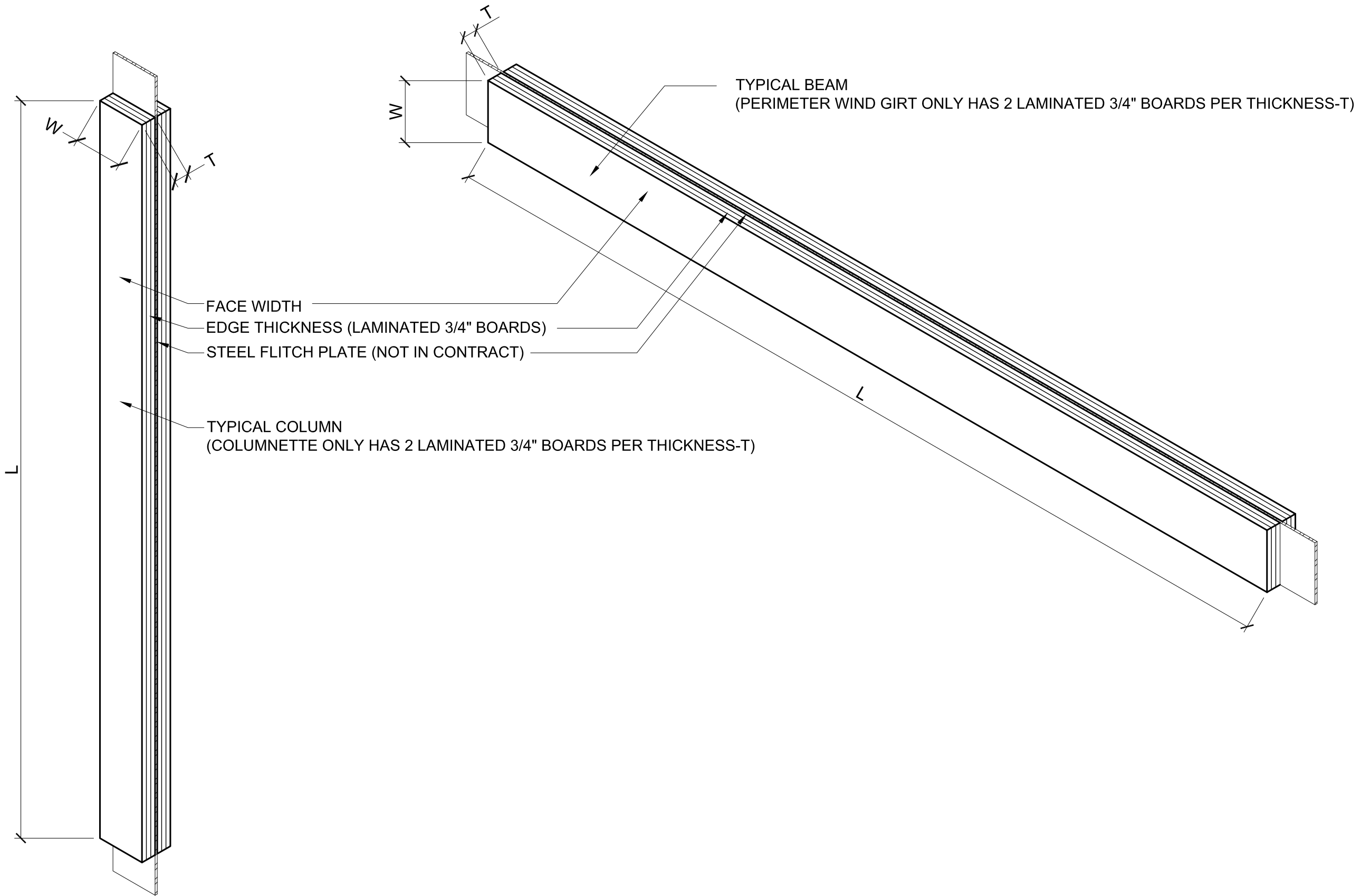
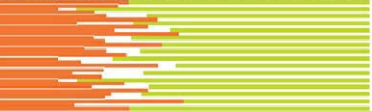


prepared by:  
**C.VAN KLEY**  
date drawn:  
**3.06.07**

scale: **NONE**

S.4.2

STRUCTURAL IMAGES



date

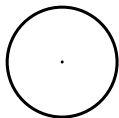
description

revision

consultants:



prepared by:  
**Joe Jamgochian**  
date drawn:  
**06.01.07**



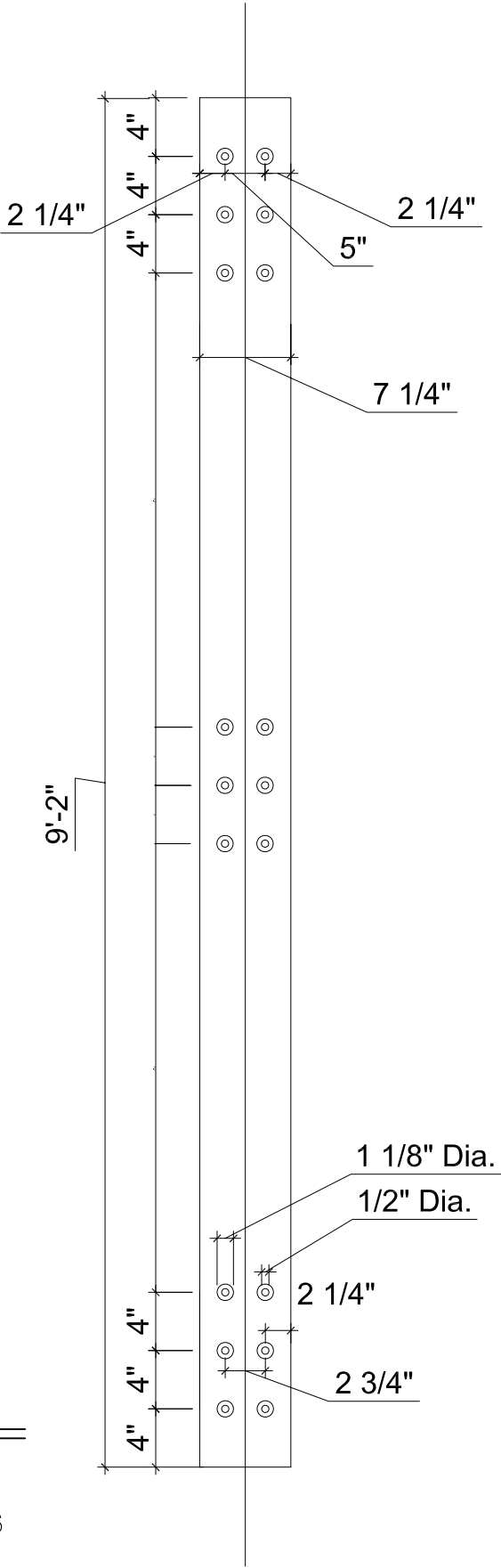
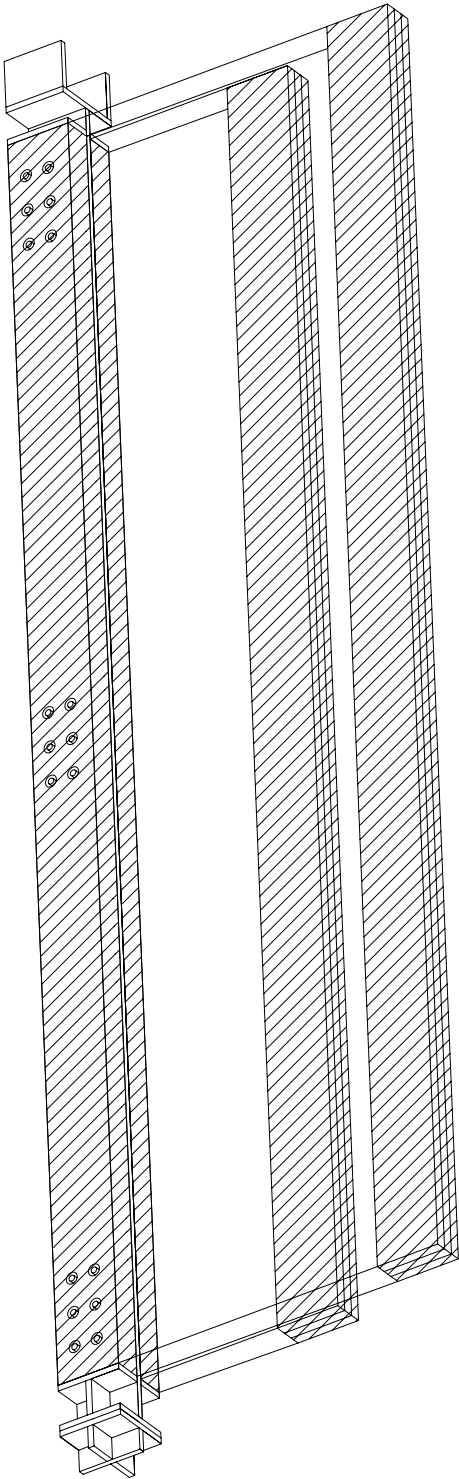
scale: **N.T.S.**

S.5.1

HARDWOOD STRUCTURAL MEMBERS

WOOD FRAME

C1



1	3-ply 3/4" Panels for C1 Column
S.5.2	

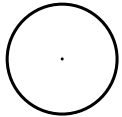
Total Needed: 8 Panels

date	
revision	
description	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**  
date drawn:  
**05.14.07**



scale: **N.T.S.**

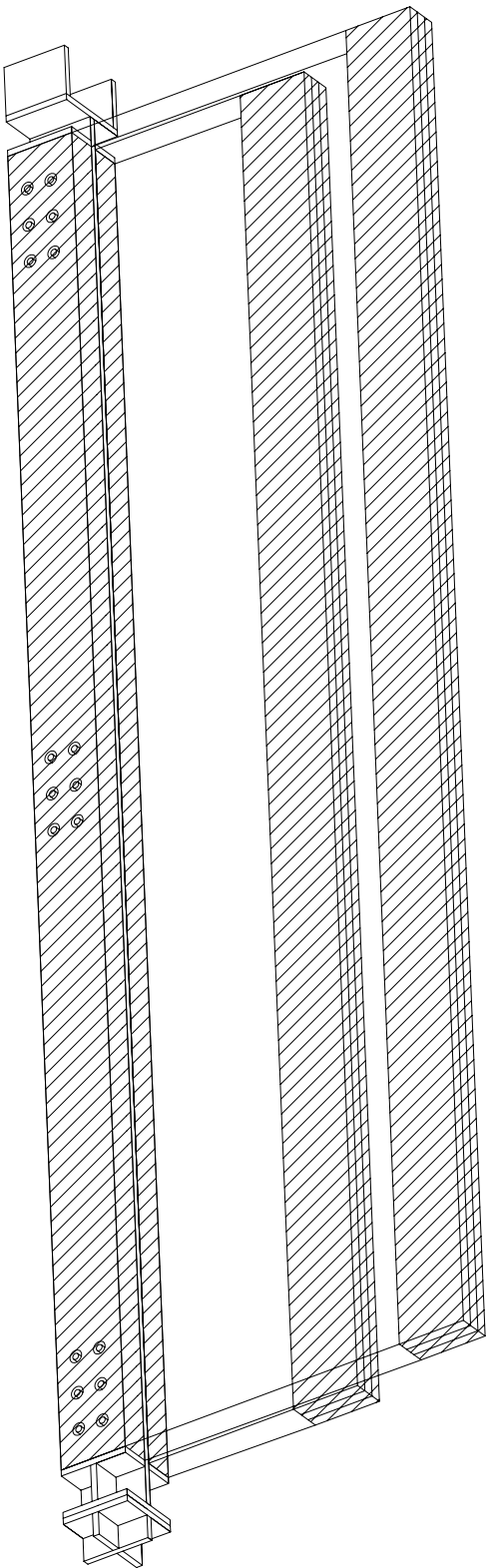
S.5.2

C1 COLUMN



# WOOD FRAME

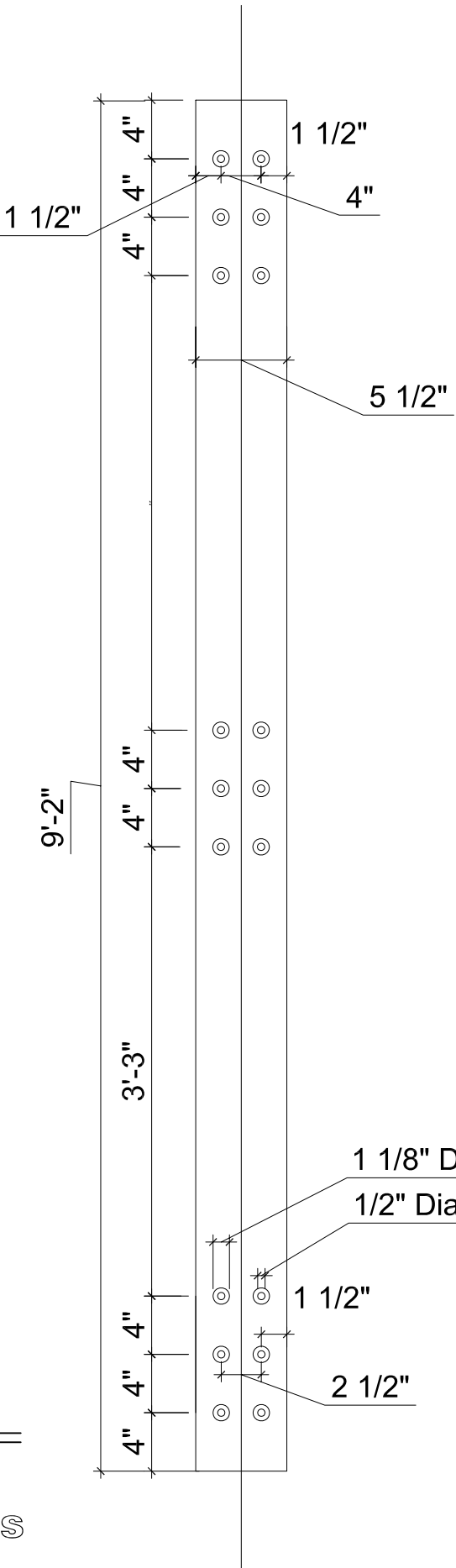
C2, C3



1  
S.5.3

3-ply 3/4" Panels for C2/C3 Column

Total Needed: 16 Panels



date

description

revision

consultants:

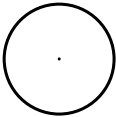


prepared by:

Matthew Erwin  
Geoffrey Braiman

date drawn:

05.14.07

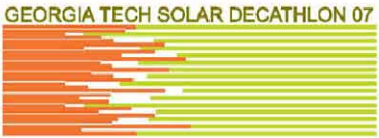


scale: N.T.S.

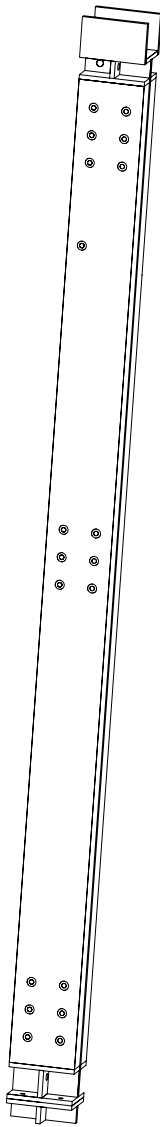
S.5.3

C2 & C3 COLUMNS

WOOD FRAME



C4: COLUMNETTES

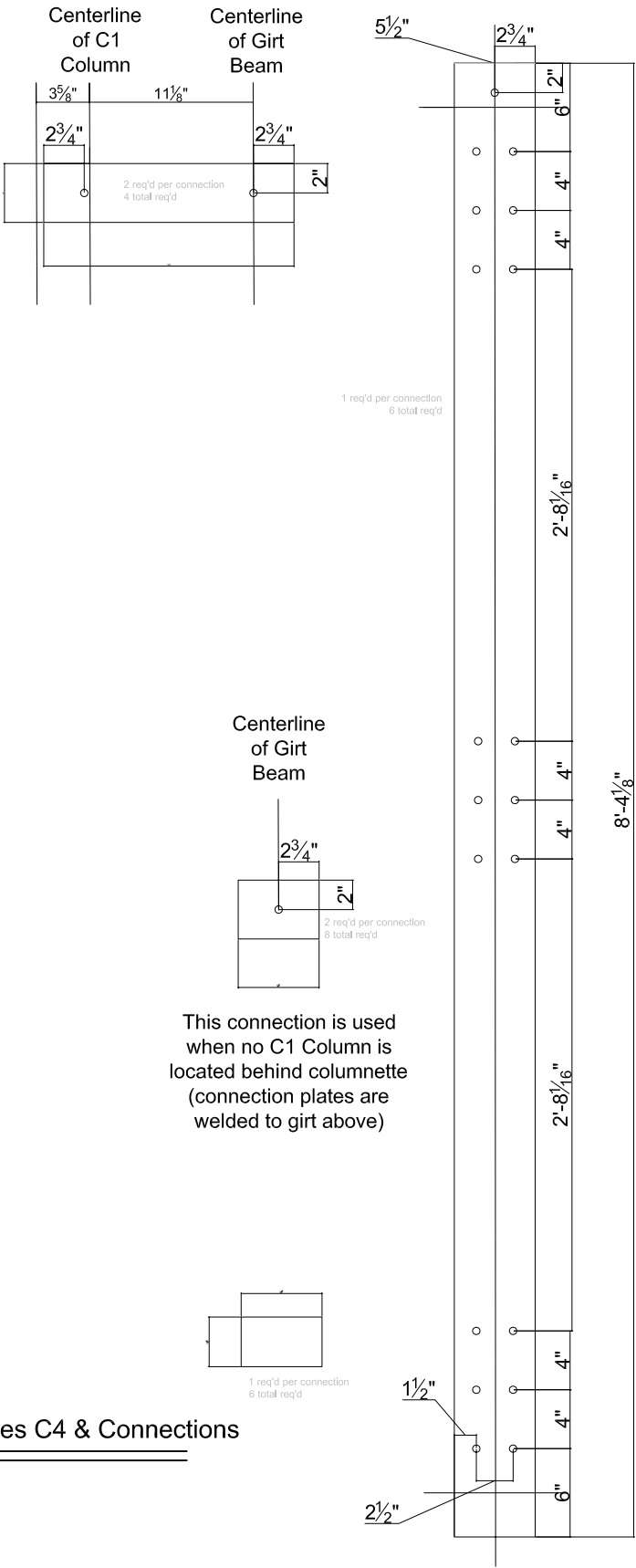


 PART OF CONTRACT

1

S.5.4

A36 Fitch Plates for Columnettes C4 & Connections

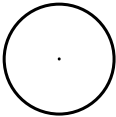


date	
revision	
description	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**  
date drawn:  
**05.14.07**



scale: **N.T.S.**

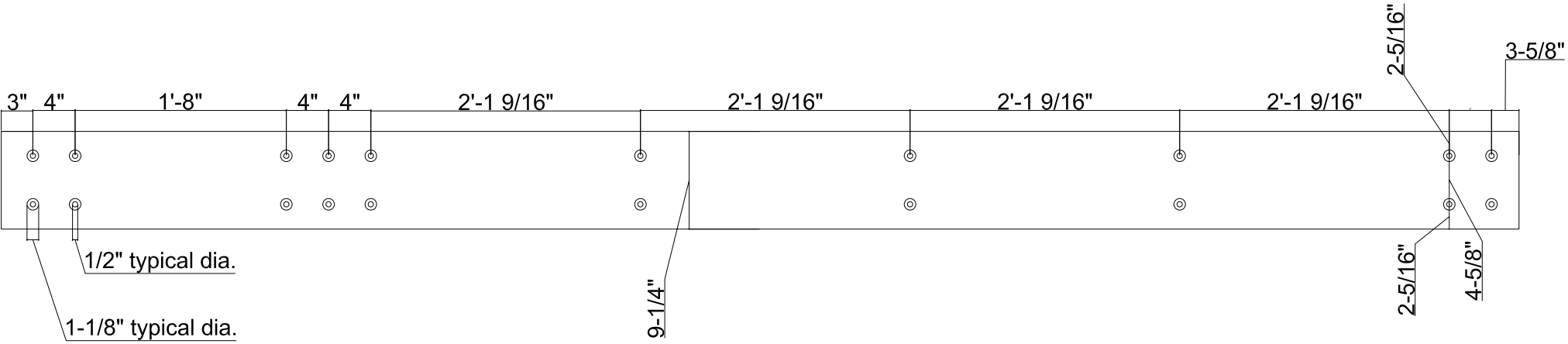
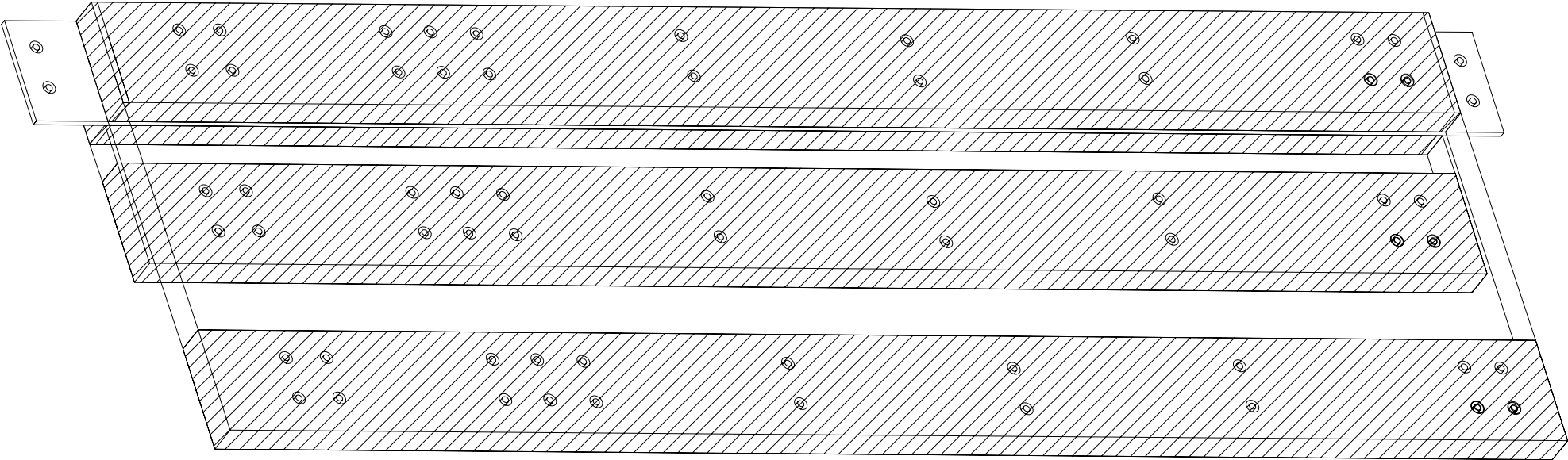
S.5.4

C4 COLUMNETTES



# WOOD FRAME

B2



1	3-ply 3/4" Panels for B2 Beam
S.5.5	

Total Needed: 8 Panels

date	
description	
revision	

consultants:

\_\_\_\_\_

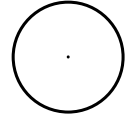
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**  
date drawn:  
**05.14.07**

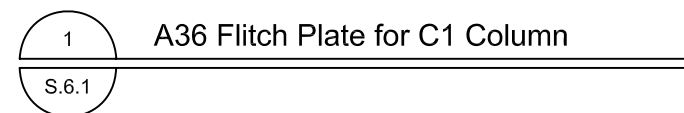


scale: **N.T.S.**

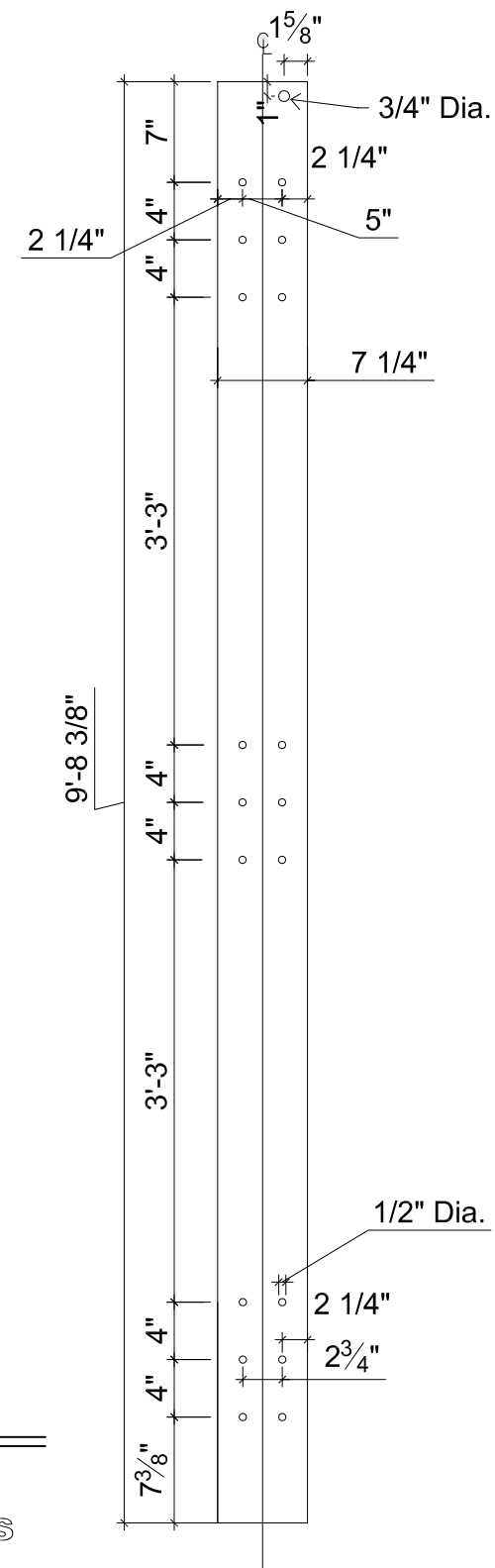
C4 COLUMNETTES

S.5.5

C1 (South Column)



Total Needed: 4 Plates





revision	description	date

*consultants:*



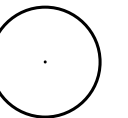
*prepared by:*

Matthew Erwin 

Geoffrey Braiman 

date drawn:

05.14.07



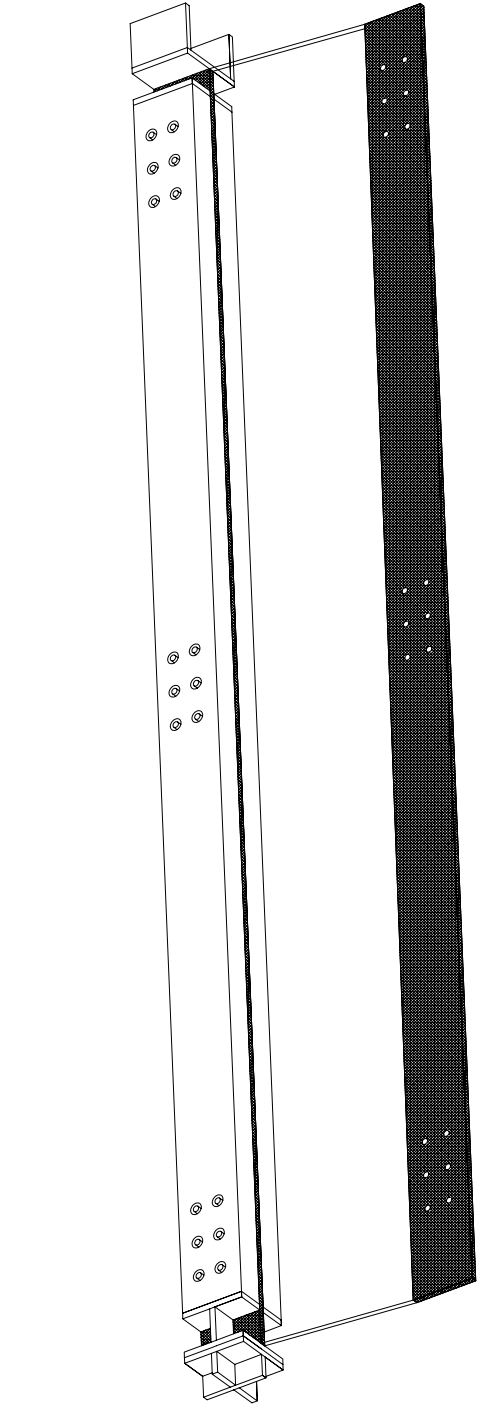
scale: **N.T.S.**

## S.6.1

## STEEL FRAME C1 COLUMN

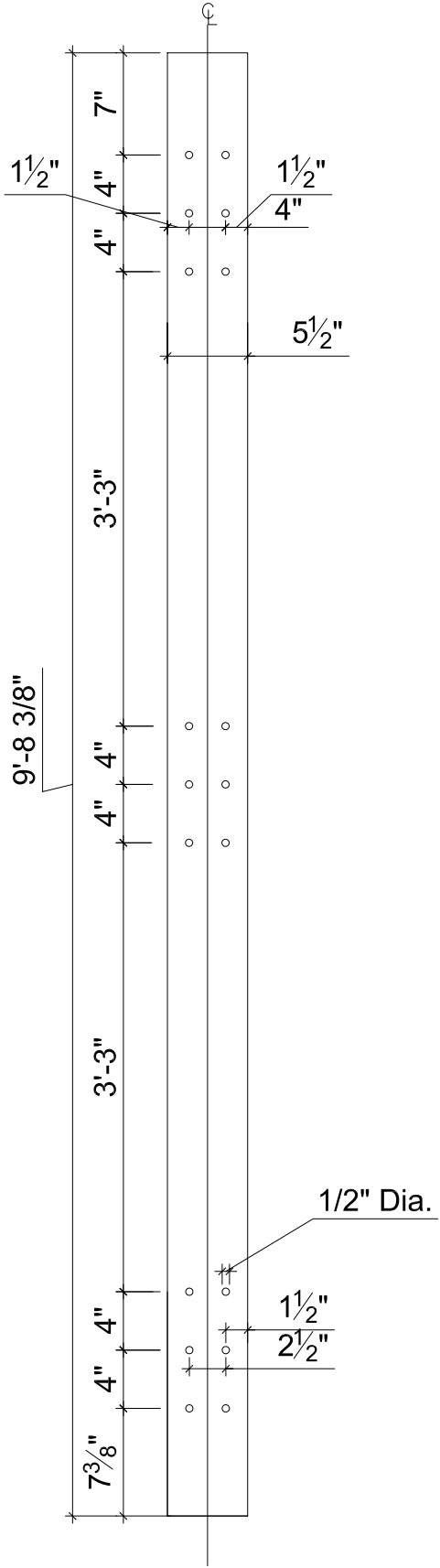
STEEL FRAME

C2, C3 North Columns



1 A36 Flitch Plate for C2 & C3 Columns  
C2/C3

Total Needed: 8 Plates

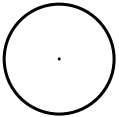


revision	description	date

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**  
date drawn:  
**05.14.07**



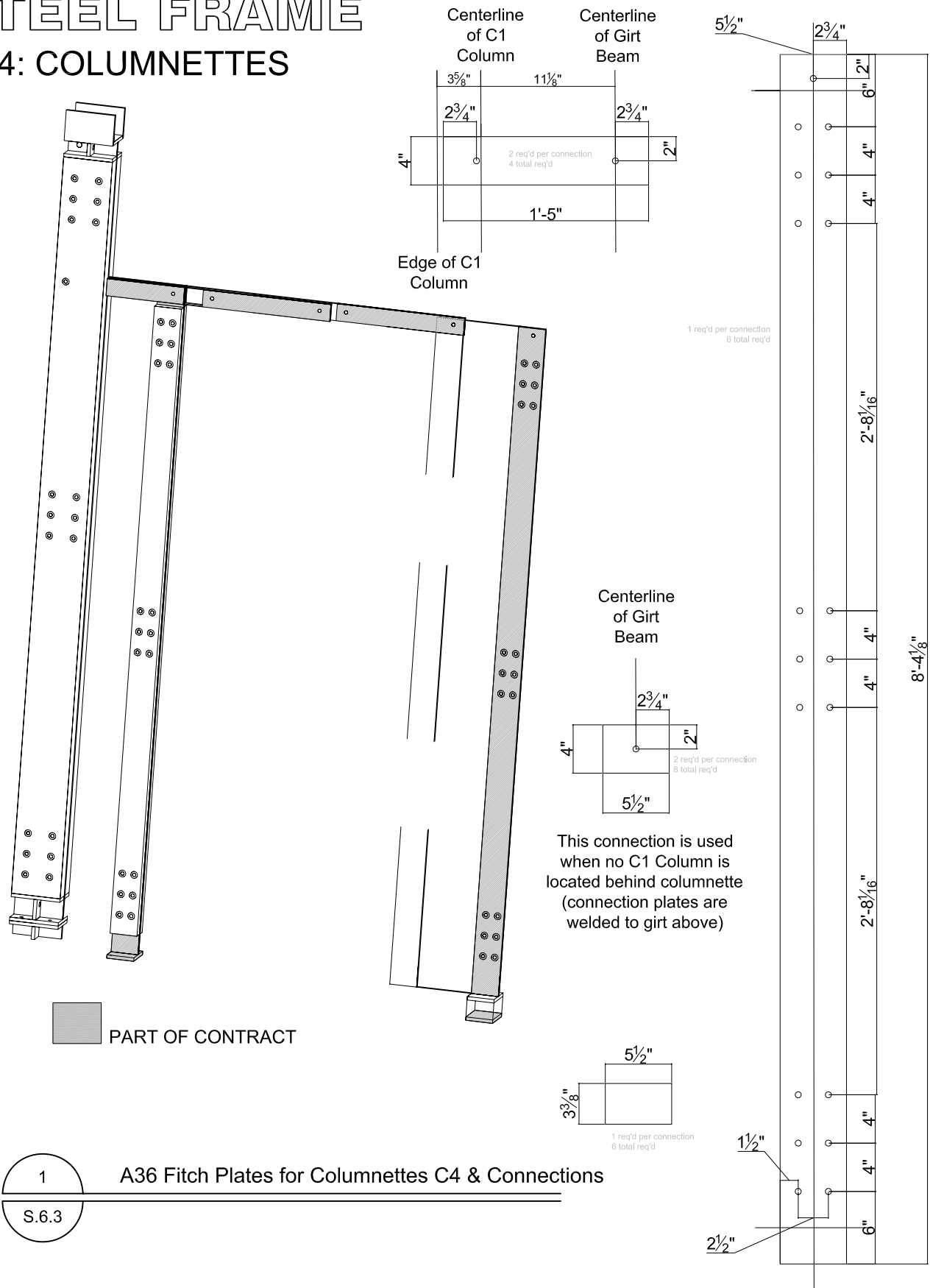
scale: **N.T.S.**

STEEL FRAME C2 & C3 COLUMNS

S.6.2

# STEEL FRAME

## C4: COLUMNNETTES

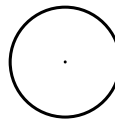


date	
revision	
description	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**  
date drawn:  
**05.14.07**



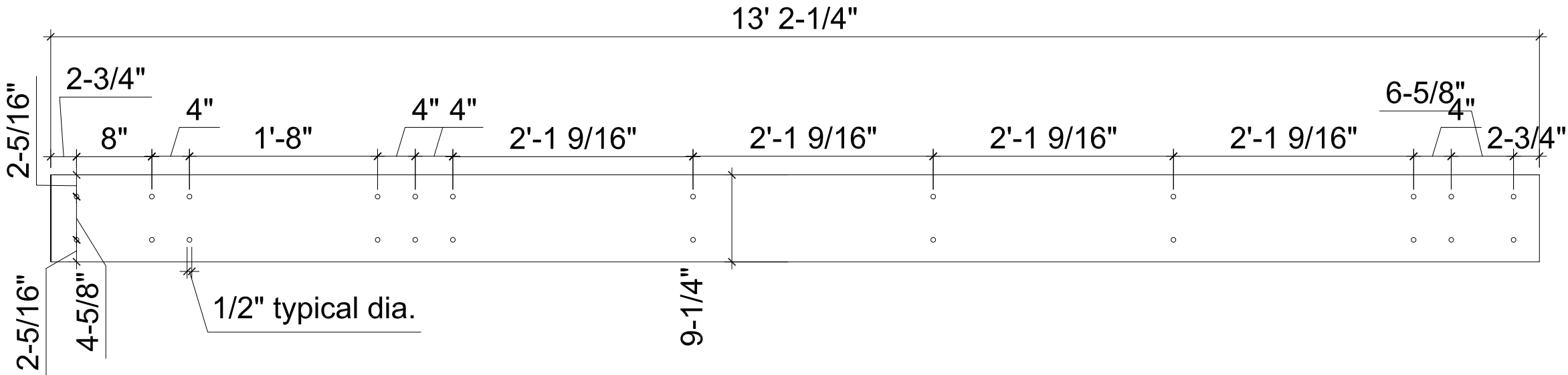
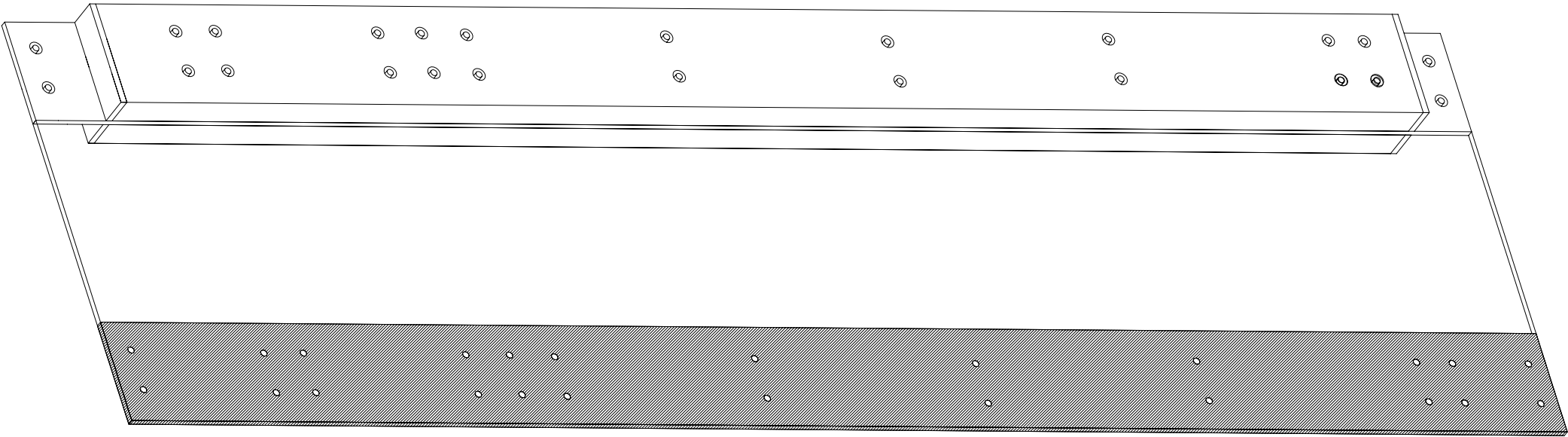
scale: **N.T.S.**

**S.6.3**

STEEL FRAME C4 COLUMNNETTES

# STEEL FRAME

## B2



1	A36 Flitch Plate B2 Beam
S.6.4	

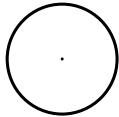
Total Needed: 4 Plates

date	
description	
revision	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**  
date drawn:  
**05.14.07**



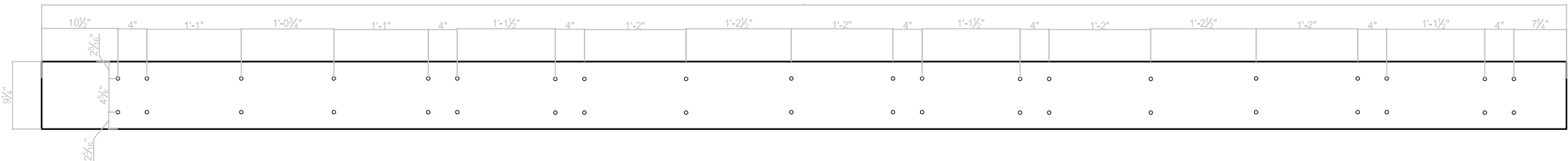
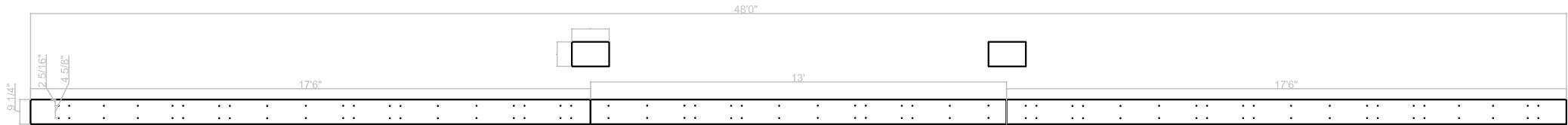
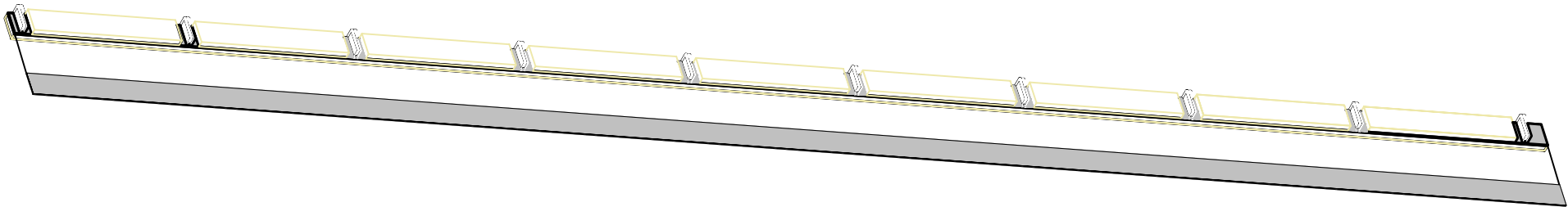
scale: **N.T.S.**

STEEL FRAME B2 BEAMS

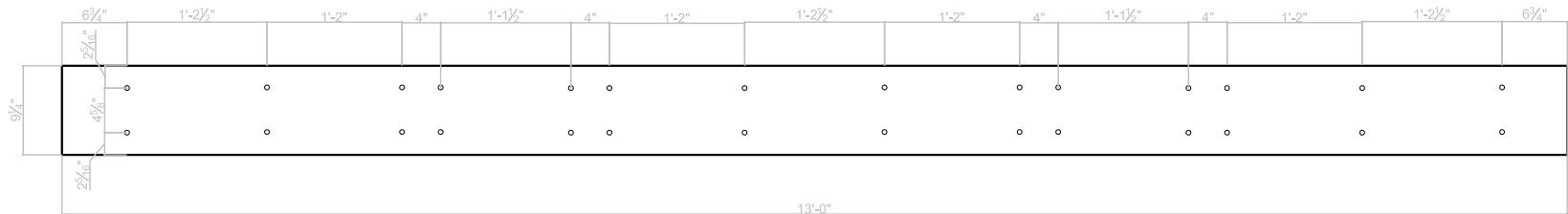
S.6.4



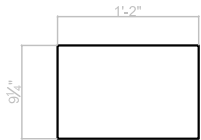
STEEL FRAME  
B3



Total Needed: 4 Plates



Total Needed: 2 Plates



Total Needed: 4 Plates

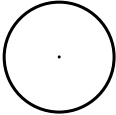
1	A36 Flitch Plate for B3 Beam
B3	Total Needed: (4) 17'-6" Panels (2) 13'-0" Panels

date	
description	
revision	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**  
date drawn:  
**05.14.07**



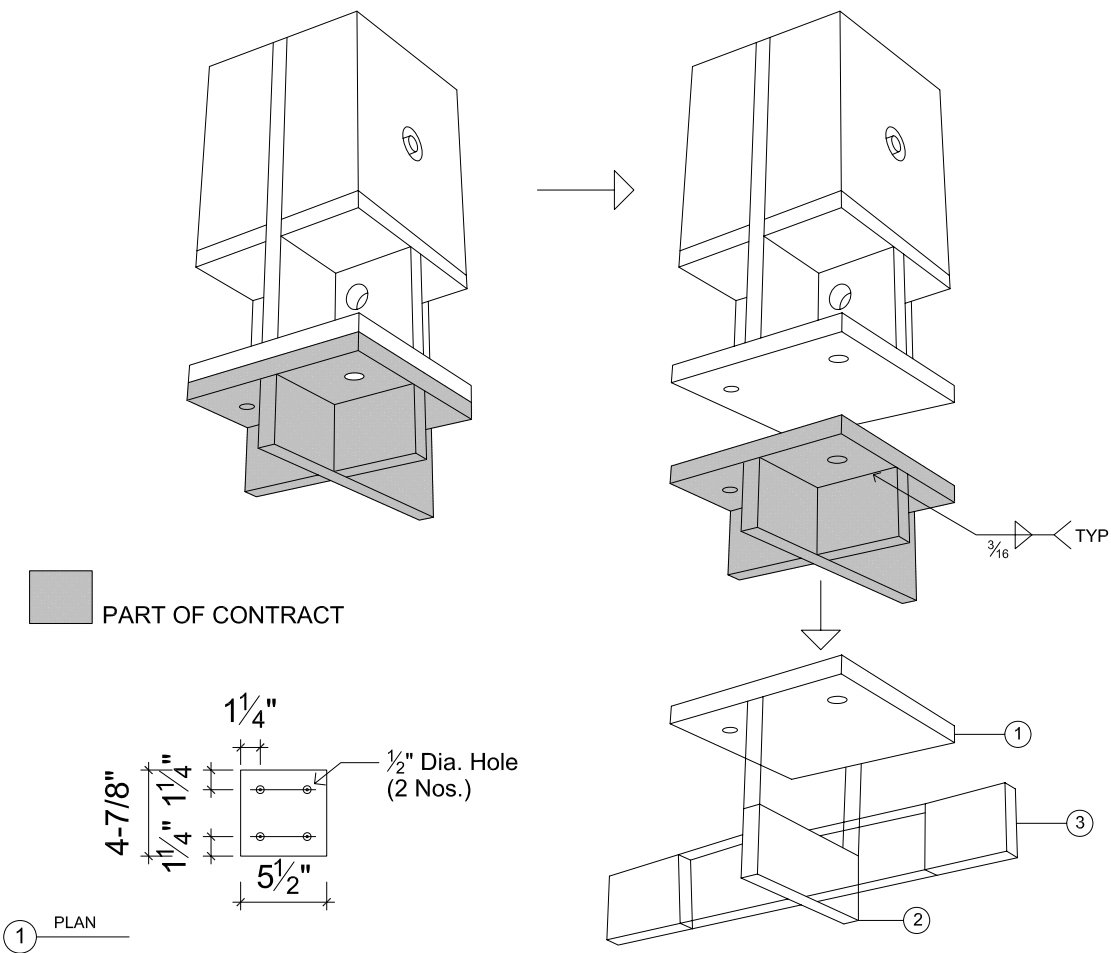
scale: **N.T.S.**

S.6.5

STEEL FRAME B3 BEAMS

# STEEL FRAME

## C2, C3 to CHASSIS CONNECTION



1 PLAN

2 ELEVATION

3 ELEVATION

- NOTES:
- ALL PLATES OUT OF  $\frac{3}{8}$ " THK STEEL
  - QUANTITY TO BE PRODUCED: 8 NOS. FOR ALL SHOWN PARTS

1	C2, C3 Column to Chassis Connection
S.7.1	

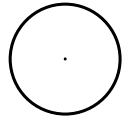
date	
description	
revision	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**

date drawn:  
**05.14.07**

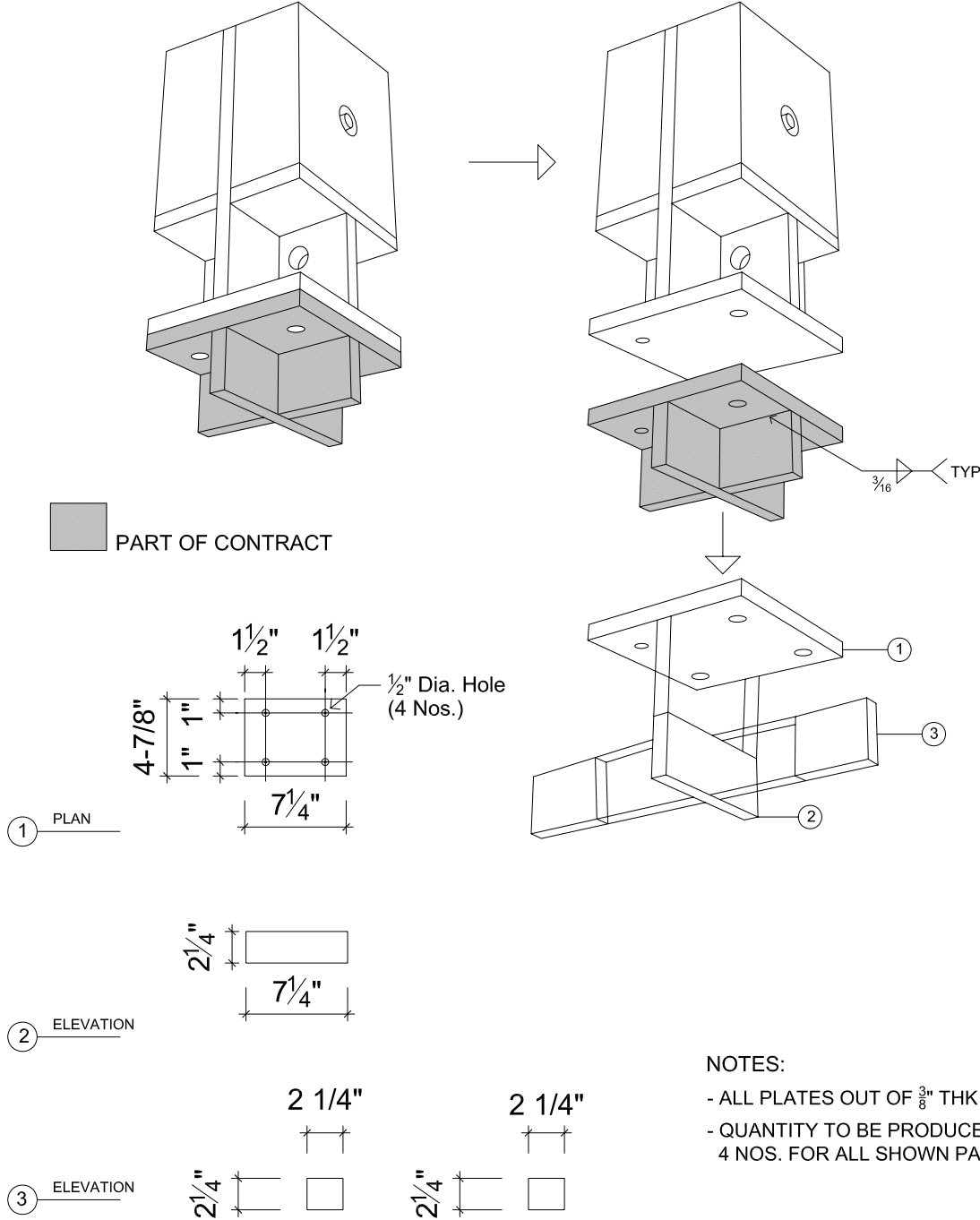


scale: **N.T.S.**

S.7.1

CONNECTION DETAILS C2, C3 TO CHASSIS

STEEL FRAME  
C1 to CHASSIS CONNECTION



NOTES:  
- ALL PLATES OUT OF 3/8" THK STEEL  
- QUANTITY TO BE PRODUCED:  
4 NOS. FOR ALL SHOWN PARTS

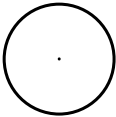
1 C1 to Chassis Connection  
S.7.2

date	
description	
revision	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**  
date drawn:  
**05.14.07**



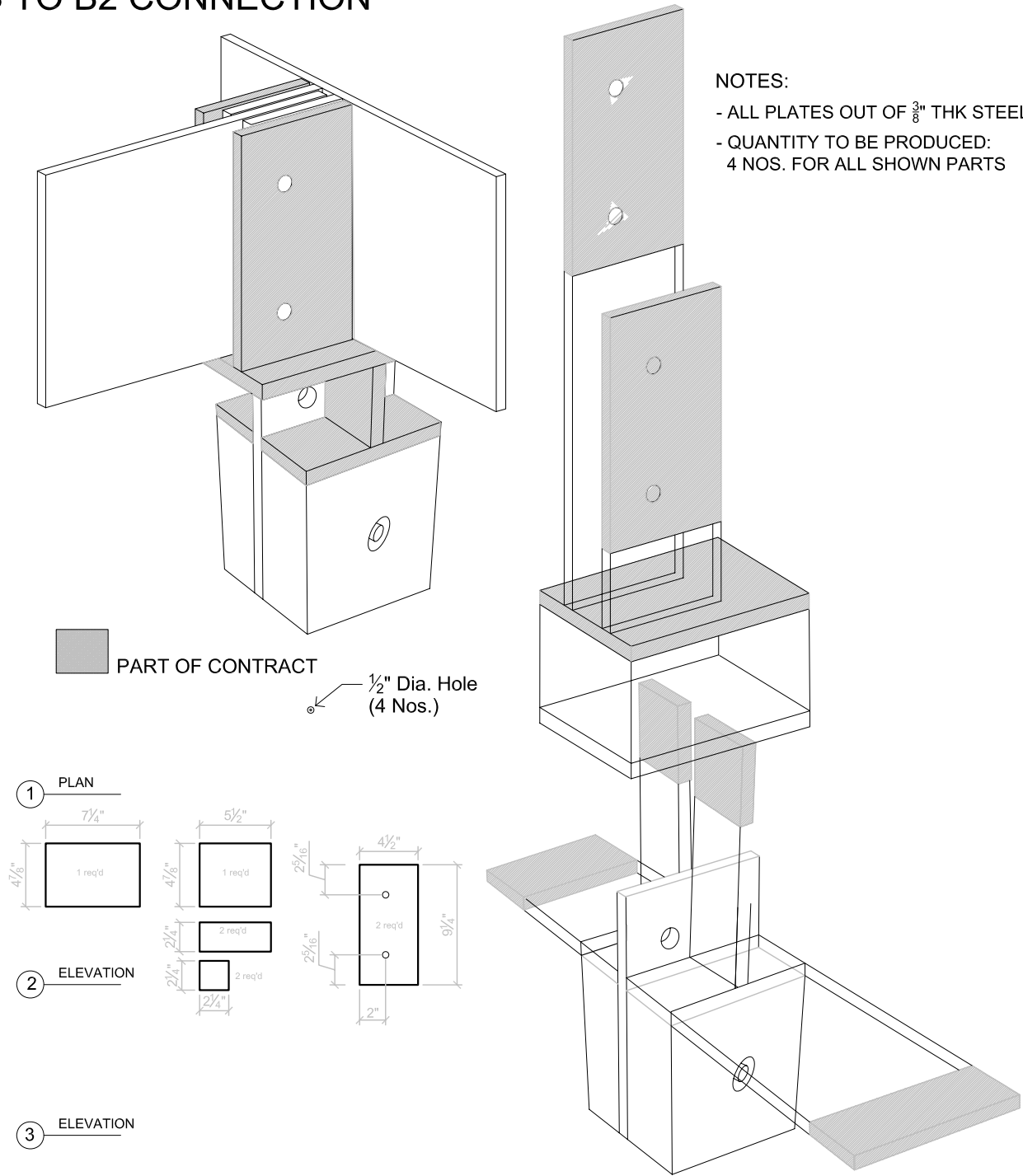
scale: **N.T.S.**

CONNECTION DETAILS C1 TO CHASSIS

S.7.2

# STEEL FRAME

## C3 TO B2 CONNECTION



1	C3 to B2 Connection
S.7.3	

date	
revision	
description	

consultants:

\_\_\_\_\_

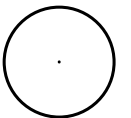
\_\_\_\_\_

\_\_\_\_\_



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**

date drawn:  
**05.14.07**



scale: **N.T.S.**

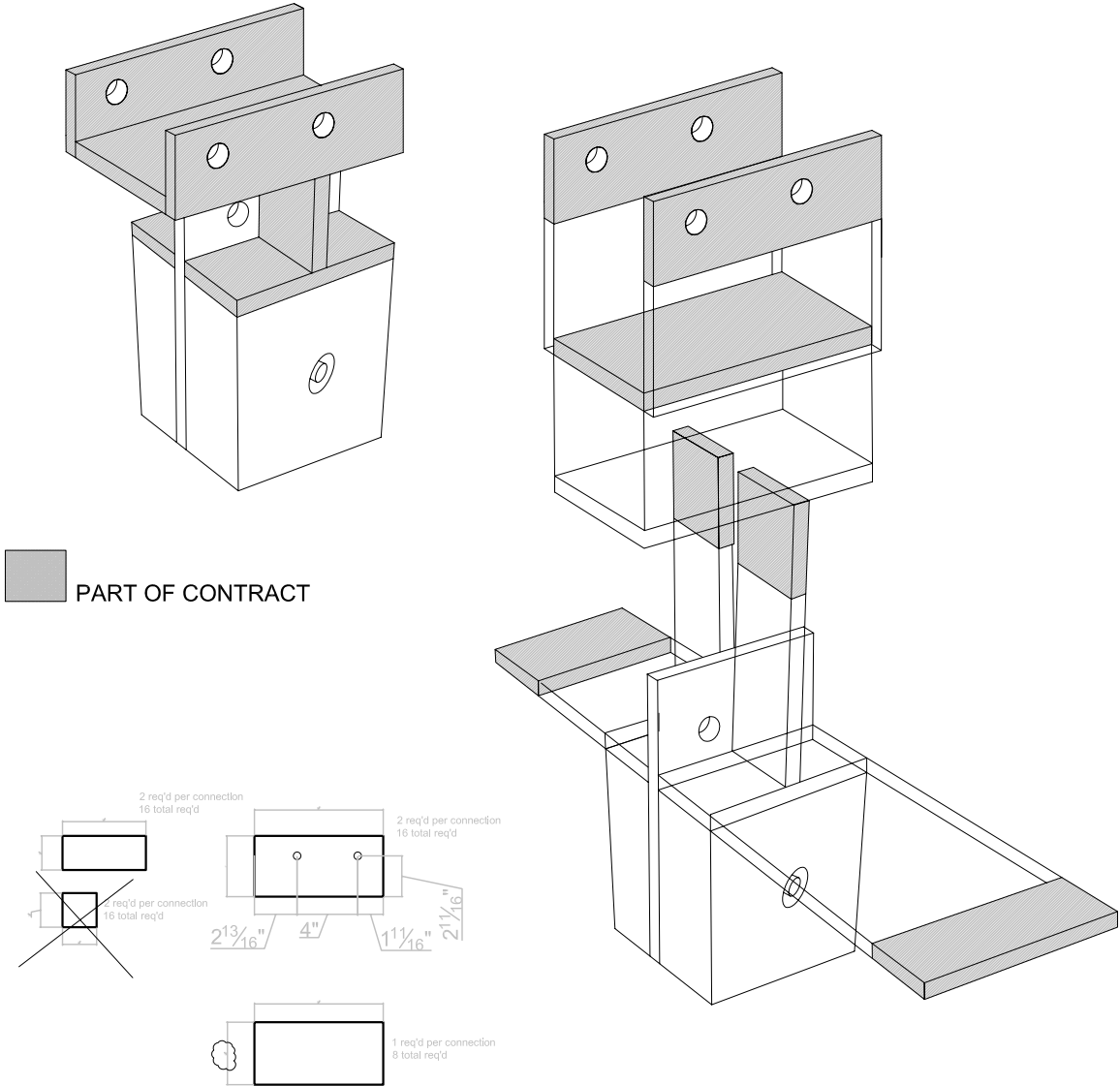
CONNECTION DETAILS C3 TO B2

S.7.3

# STEEL FRAME

## C2 TO B2 CONNECTION

C:\deo\sd07\structure\logo.jpg



- NOTES:
- ALL PLATES OUT OF  $\frac{3}{8}$ " THK STEEL
  - QUANTITY TO BE PRODUCED: 4 NOS. FOR ALL SHOWN PARTS

1	C2 to B2 Connection
S.7.4	

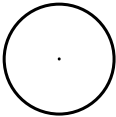
date	
revision	
description	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**

date drawn:  
**05.14.07**



scale: **N.T.S.**

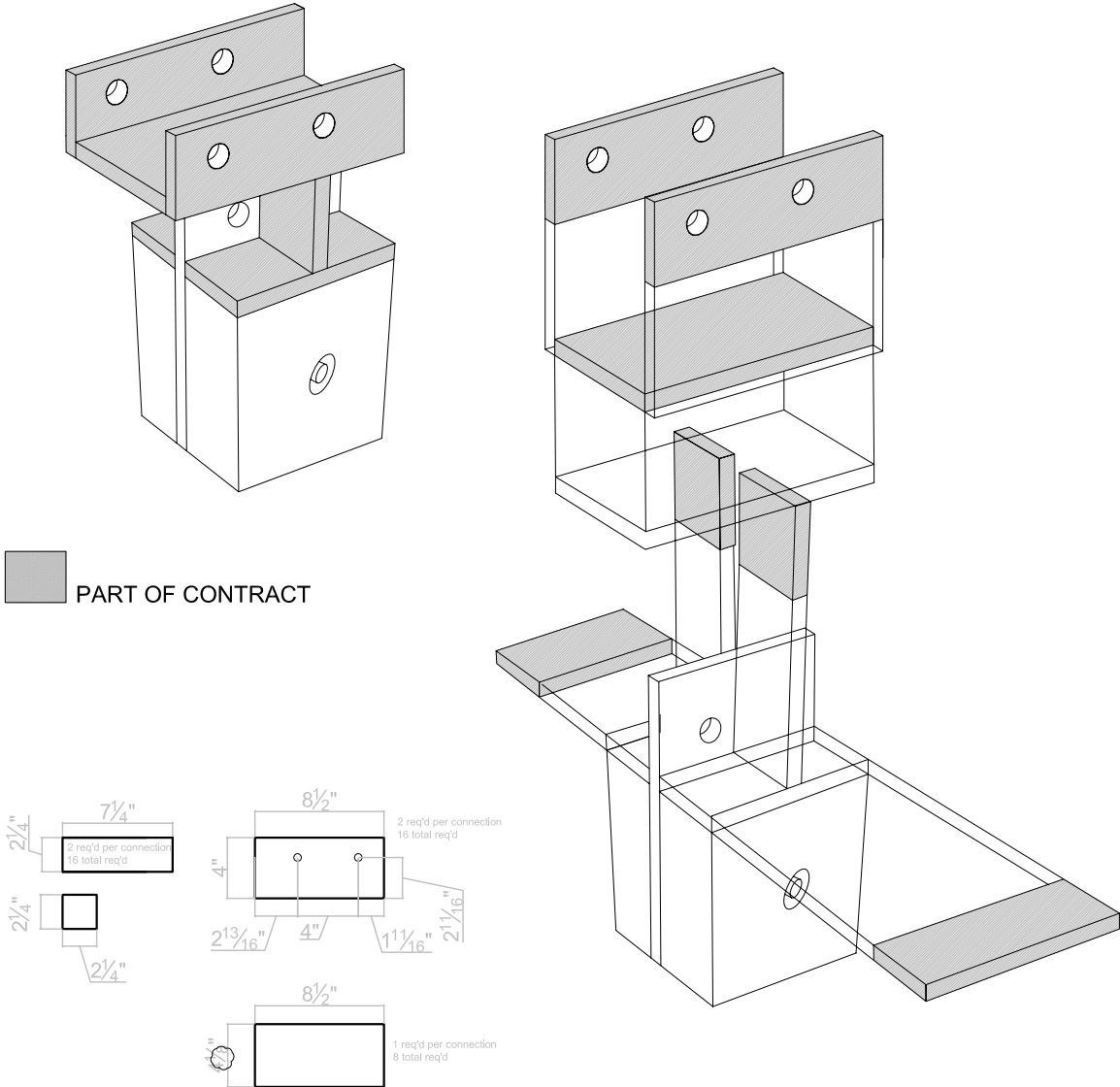
S.7.4

CONNECTION DETAILS C2 TO B2



# STEEL FRAME

## C1 TO B2 CONNECTION



NOTES:  
- ALL PLATES OUT OF  $\frac{3}{8}$ " THK STEEL  
- QUANTITY TO BE PRODUCED:  
4 NOS. FOR ALL SHOWN PARTS

1 C1 to B2 Connection  
S.7.5

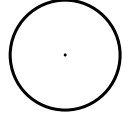
date	
revision	
description	

consultants:



prepared by:  
**Matthew Erwin**  
**Geoffrey Braiman**

date drawn:  
**05.14.07**

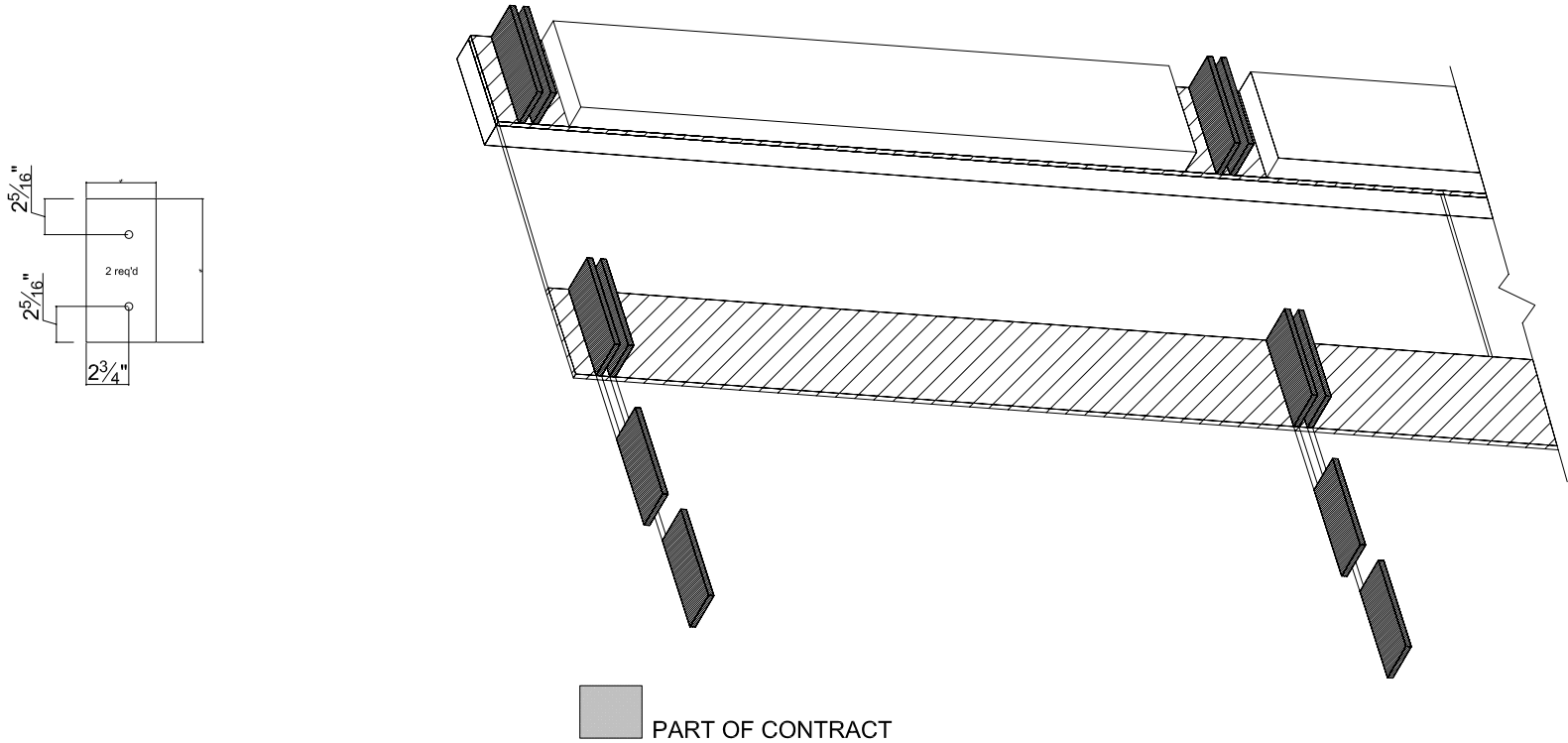


scale: **N.T.S.**

CONNECTION DETAILS C1 TO B2

S.7.5

STEEL FRAME  
B3 TO B2 CONNECTION



1 A36 Connector Plates for B3 to B2 Beam  
S.7.6 Total Needed: 40 Plates

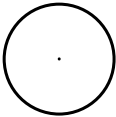
date	
revision	
description	

consultants:



prepared by:  
Matthew Erwin  
Geoffrey Braiman

date drawn:  
05.14.07

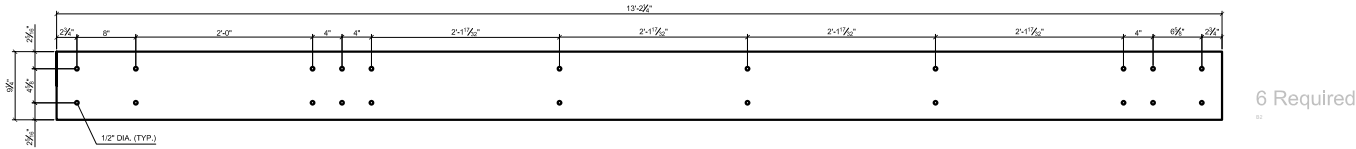


scale: N.T.S.

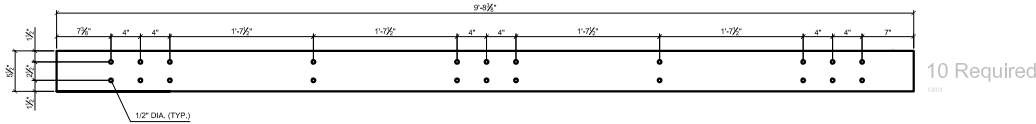
CONNECTION DETAILS B2 TO B3

S.7.6

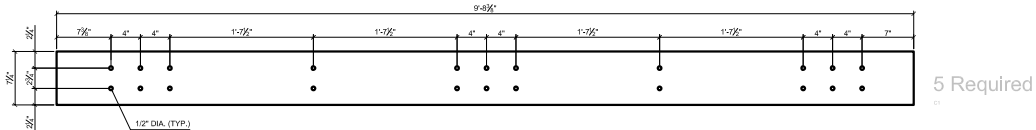
1st order (submitted to ga steel matt; received)



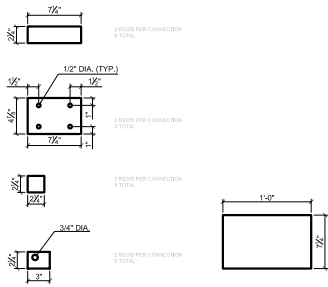
1 A36 Flitch Plate B2 Beam  
S.8.1



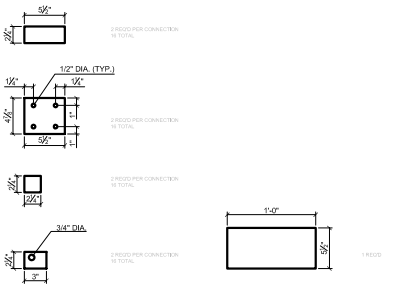
2 A36 Flitch Plate C2/C3 Column  
S.8.1



3 A36 Flitch Plate C1 Column  
S.8.1



5 C1 to Chassis Connection  
S.8.1



5 C2/C3 Column to Chassis Connection  
S.8.1

date

description

revision

consultants:



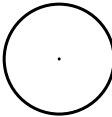
prepared by:

Matthew Erwin

Geoffrey Braiman

date drawn:

05.14.07

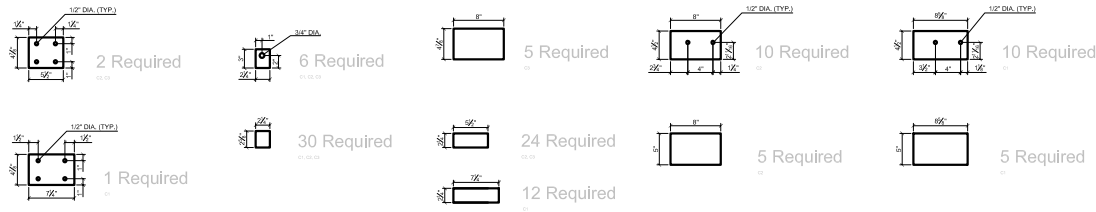
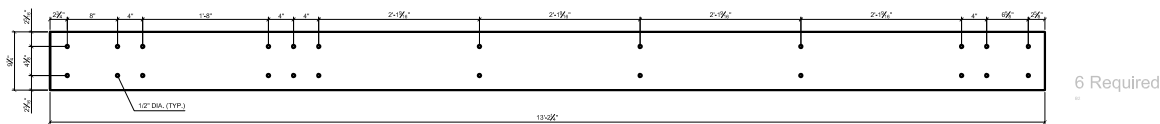
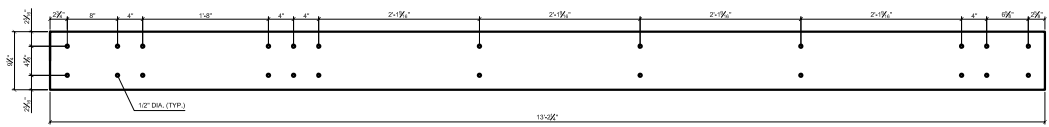
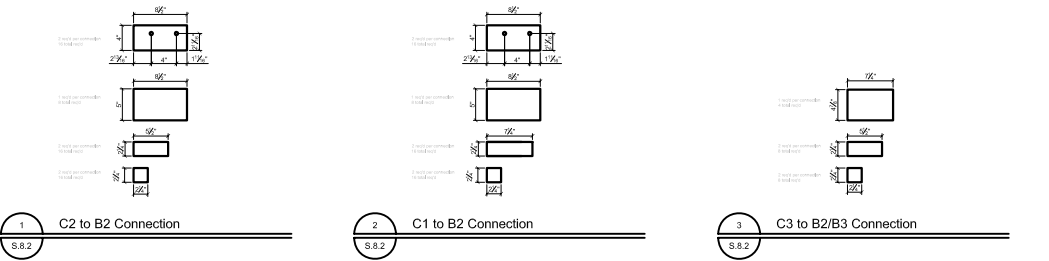


scale: N.T.S.

S.8.1

FIRST STEEL ORDER

2nd order (submitted to ga steel 6.5.07)



All holes 1/2" diameter U.N.

1/2" steel plate, Grade 36 or Grade 50

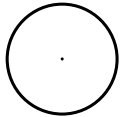
Steel Connection Plates  
GTSD Frame Connections  
Jamgochian, Trubiano, Gentry  
06 June 07  
russell.gentry@coe.gatech.edu  
404.894.0572  
FOR PRICING ONLY

date	
revision	
description	

consultants:



prepared by:  
**Joe Jamgochian**  
date drawn:  
**05.14.07**

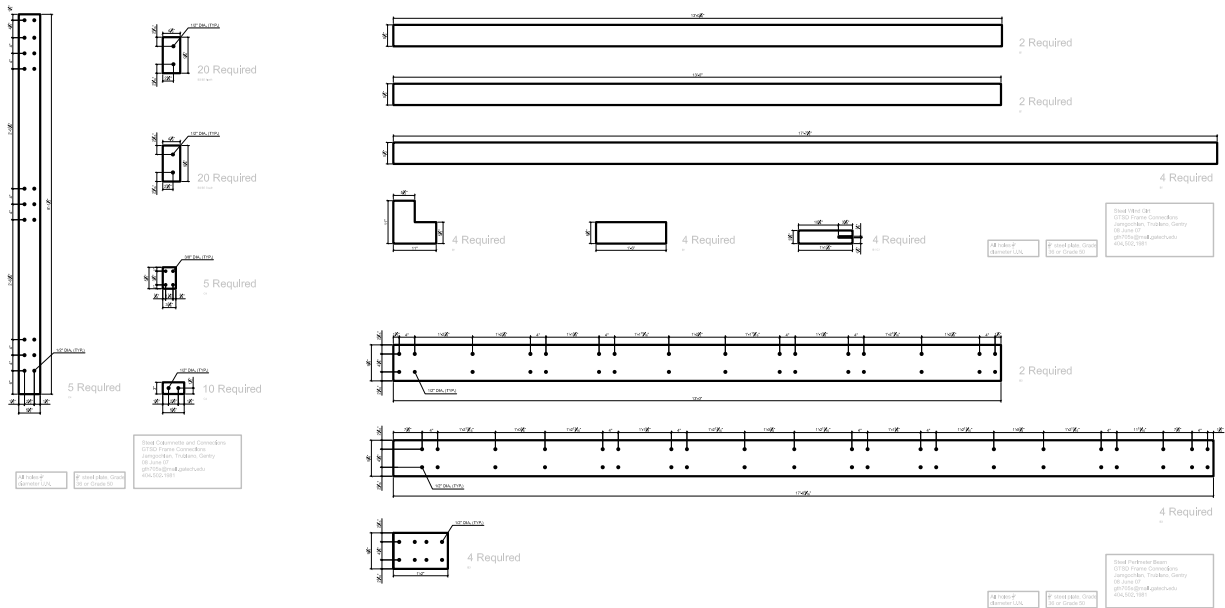
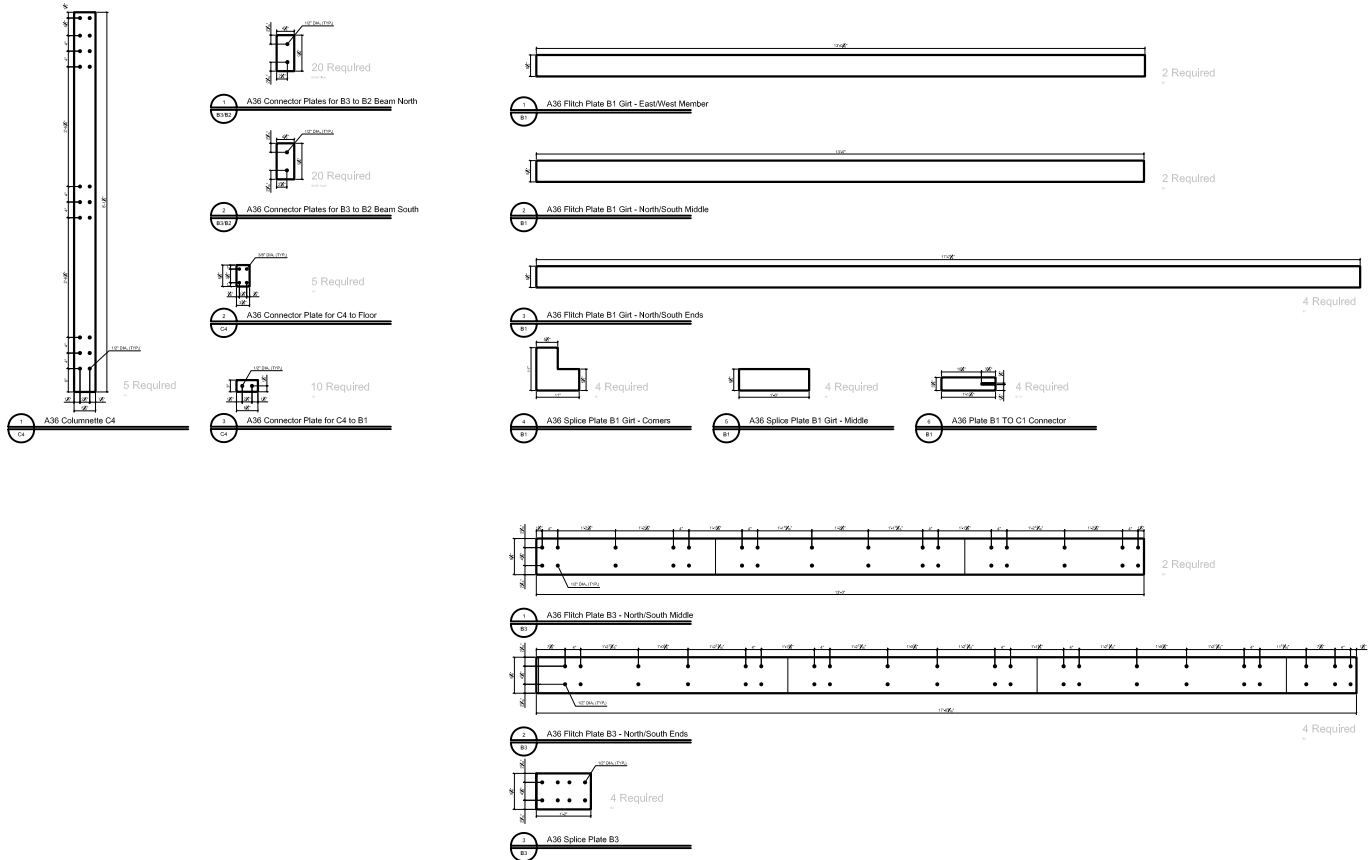


scale: **N.T.S.**

**S.8.2**

SECOND STEEL ORDER

3rd order (to be submitted to ga steel 6.8.07)



date

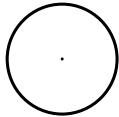
description

revision

consultants:



prepared by:  
**Joe Jamgochian**  
date drawn:  
**05.14.07**



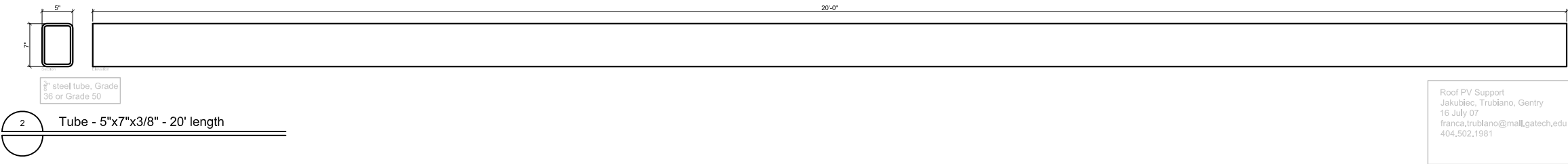
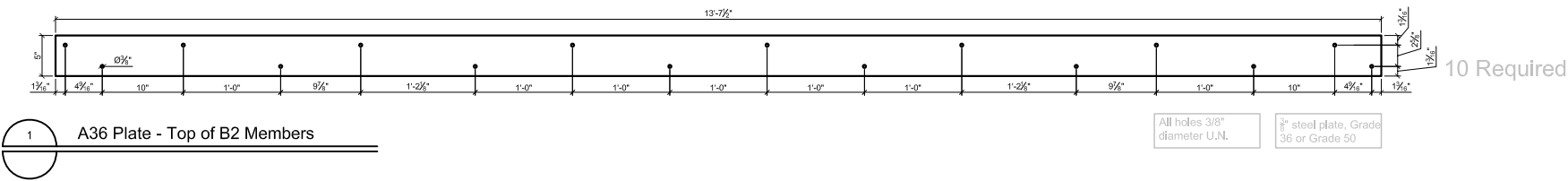
scale: **N.T.S.**

**S.8.3**

**THIRD STEEL ORDER**



4th order (to be submitted to ga steel)  
(roof pv support)

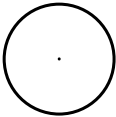


date	
revision	
description	

consultants:



prepared by:  
**Alistan Jakubiec**  
date drawn:  
**07.01.07**



scale: **N.T.S.**

FORTH STEEL ORDER

S.8.4

# 5th order

(to be submitted to gtri)

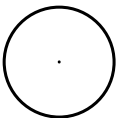
## (pv support plate)

date	
description	
revision	

consultants:



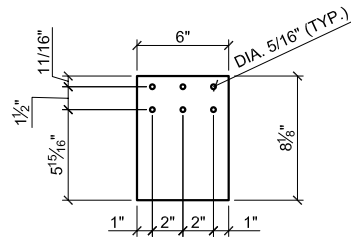
prepared by:  
**Alstan Jakubiec**  
date drawn:  
**07.01.07**



scale: **N.T.S.**

S.8.5

FIFTH STEEL ORDER



30 Required

All holes 5/16" diameter U.N.  
3/8" steel plate, Grade 36 or Grade 50

PV Support Plate  
Jakubiec, Trubiano, Gentry  
16 July 07  
franca.trubiano@mail.gatech.edu  
404.502.1981

1 A36 Plate - PV Support Plates

	MANUFAC- TURER	MODEL	SOUND RATING (High) (dB)	AIRFLOW (H-L) (CFM)	PERFORMANCE				DIMENSIONS(inches)			WEIGHT (lbs)	SUPPLY VOLTAGE (V)	POWER SUPPLY (W)
					TOTAL CAPACITY		EFFICIENCY		H	W	D			
					HEATING (btu)	COOLING (btu)	SEER (btu/h/W)	HSPF (btu/h/W)						
OUTDOOR CONDENSOR	MITSUBISHI ELECTRIC	MXZ-3A30NA	49	-	27,200	36,000	16.0	10.0	35-7/16	35-7/16	12-19/32	158	208/230	1000-3250
INDOOR FAN COIL - BEDROOM	MITSUBISHI ELECTRIC	MSZ-A9NA	-	-	8,600	8,500	-	-	12	30-1/2	8-1/2	23	208/230	3250
INDOOR FAN COIL - STUDY	MITSUBISHI ELECTRIC	MSZ-A9NA	-	-	8,600	8,500	-	-	12	30-1/2	8-1/2	23	208/230	3250
INDOOR FAN COIL - LIVING	MITSUBISHI ELECTRIC	MSZ-A12NA	-	-	11,400	11,400	-	-	12	30-1/2	8-1/2	23	208/230	3250

	MANUFACTURER	MODEL	AIRFLOW (CFM)	DIMENSIONS (inches)			WEIGHT (lbs)	SUPPLY VOLTAGE (V)	POWER SUPPLY (W)
				H	W	D			
ERV	ULTIMATEAIR	200DX	60-210	25	19	25	72	120	34-200

## VENTILATION RATES

KITCHEN	100 CFM INTERMITTENT/25 CFM CONTINUOUS
BATHROOM	50 CFM INTERMITTENT/20 CFM CONTINUOUS
HABITABLE ROOM	15 CFM PER PERSON

INDOOR TEMPERATURE REQUIREMENT 72° F- 76° F

INDOOR HUMIDITY REQUIREMENT	40%-55%
-----------------------------	---------

date

description

revision

*consultants:*

(*engineer's stamp*)

*prepared by:*

**Shreyansh  
Ajeeta Dhole**

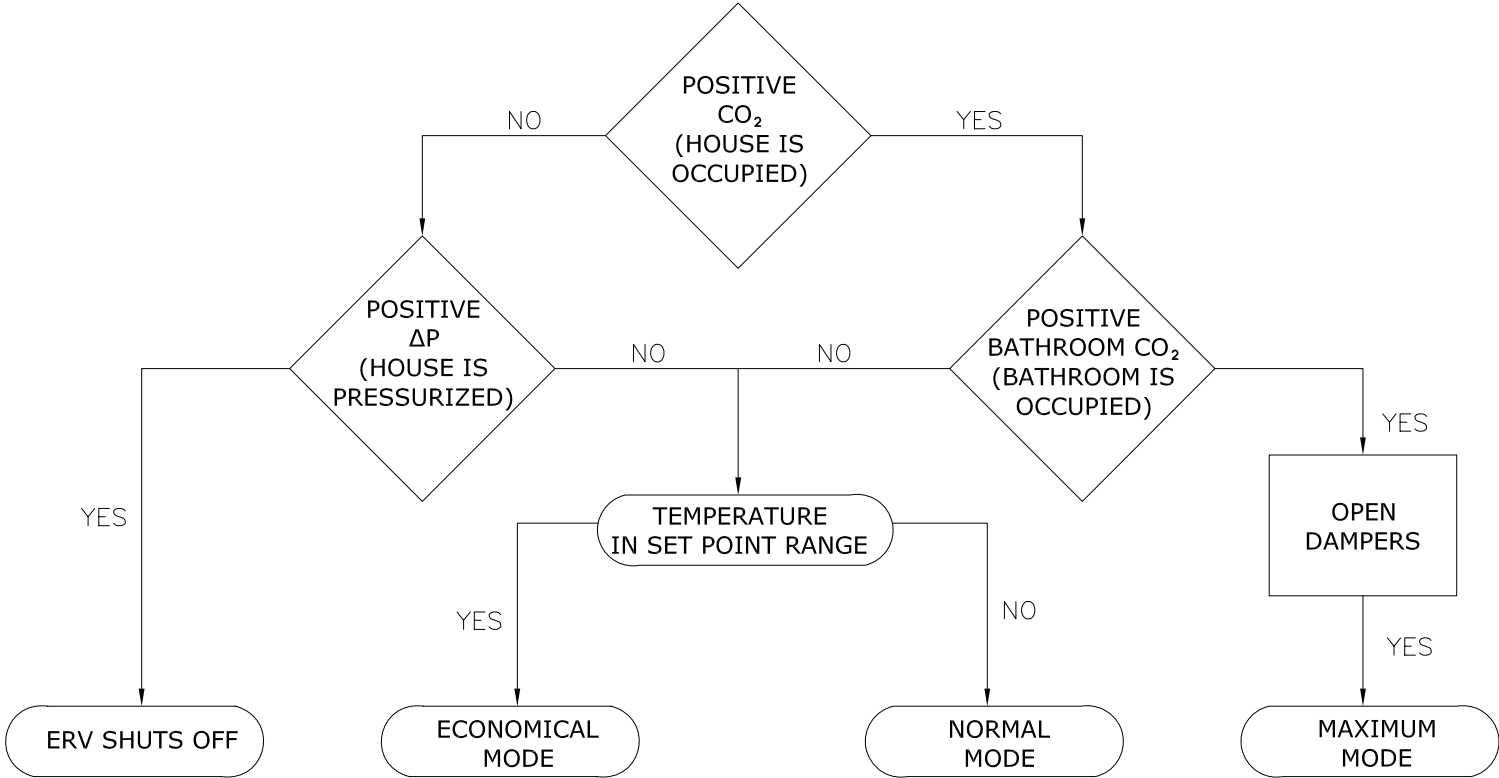
*date drawn:*

08.06.07  
03.03.07

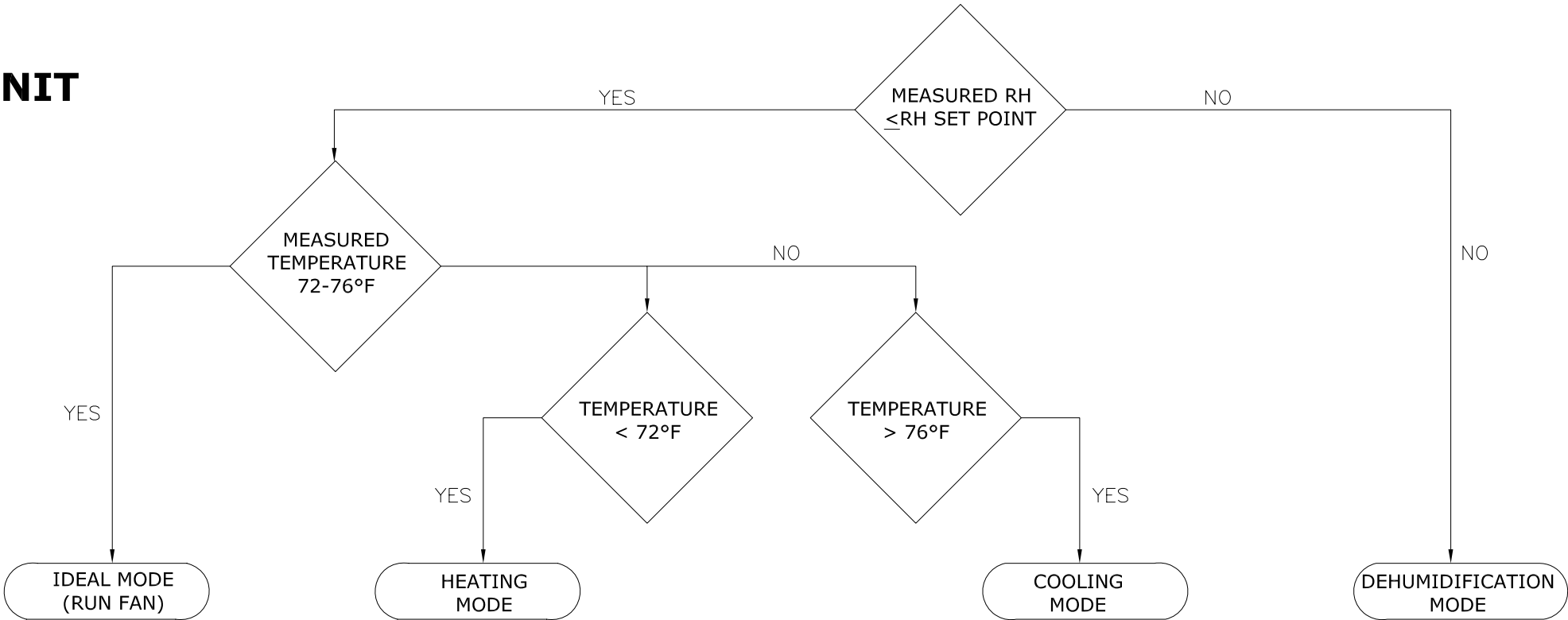
## HVAC : SCHEDULE

M.O.O

ERV



FAN COIL UNIT



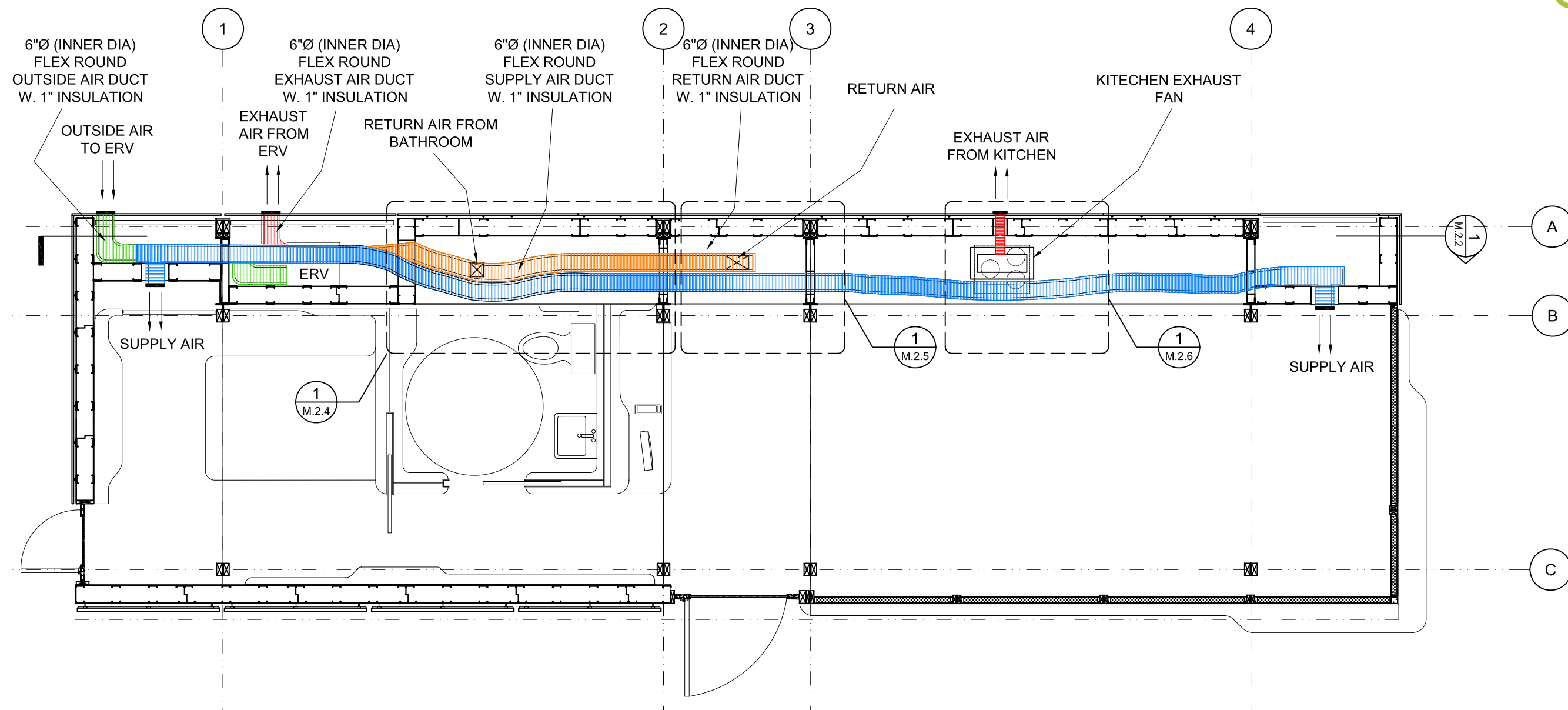
date	
description	
revision	

consultants:

engineer's stamp

prepared by:  
Shreyansh

date drawn:  
08.06.07



1 PLAN: VENTILATION SYSTEM  
M.2.1

NOTES :

1. OUTDOOR AIR INLET VENT WITH  $\frac{1}{4}$ " BIRDSCREEN
2. EXHAUST AIR OUTLET VENT WITH  $\frac{1}{4}$ " BIRDSCREEN
3. ENERGY RECOVERY VENTILATOR (ERV) - ULTIMATEAIR 200DX
4. ALL DUCTWORK- 6" DIA, INSULATED, ROUND, FLEX DUCTING

date	
description	
revision	

consultants:

engineer's stamp

prepared by:  
**Shreyansh Ajeeta Dhole**

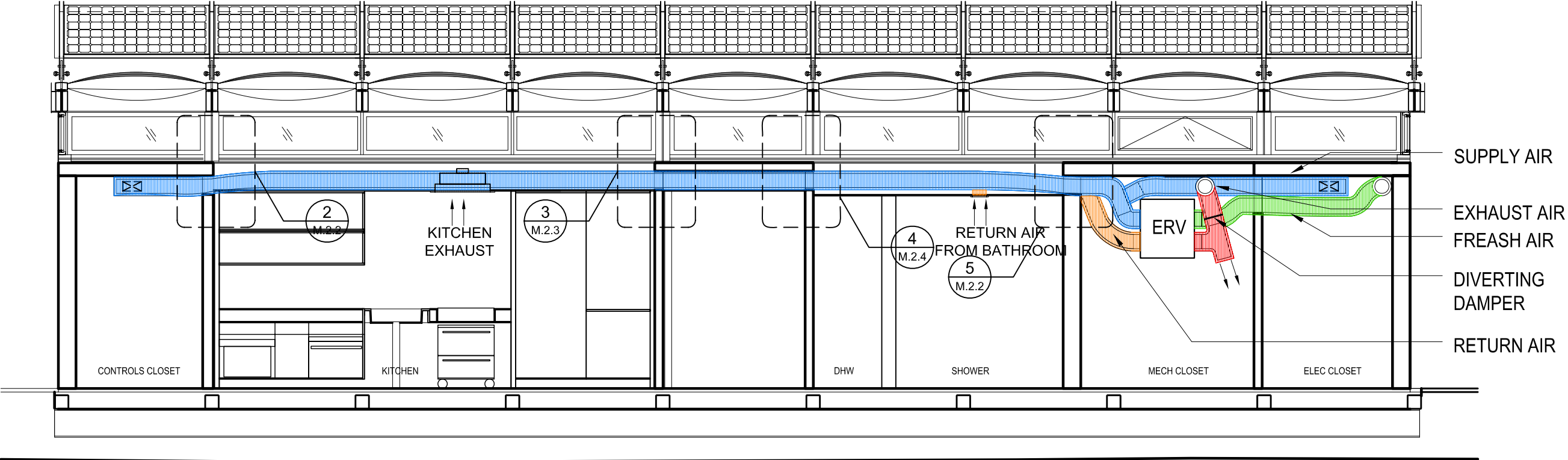
date drawn:  
**08.06.07**  
**03.03.07**

scale: **1/4" : 1' 0"**

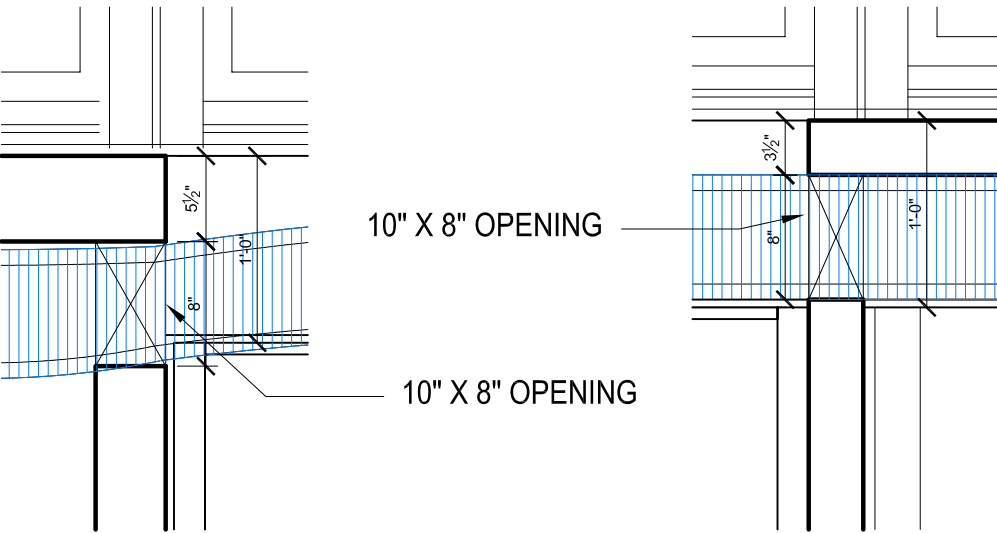
M.2.1

HVAC : VENTILATION SYSTEM

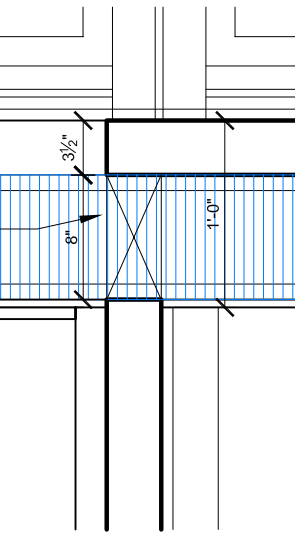




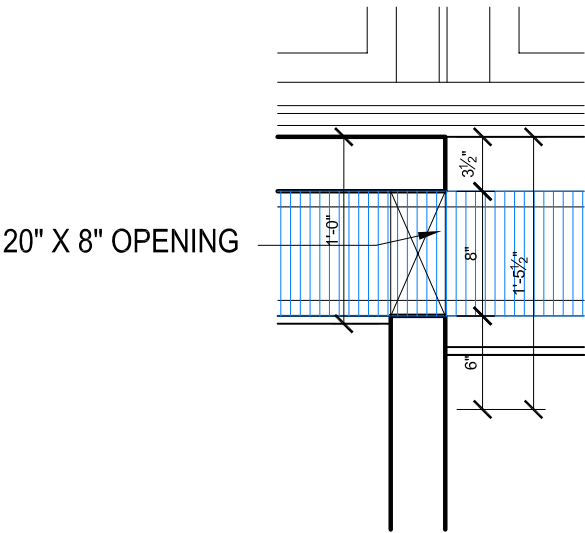
1 SECTIONAL ELEVATION: VENTILATION SYSTEM  
M.2.2



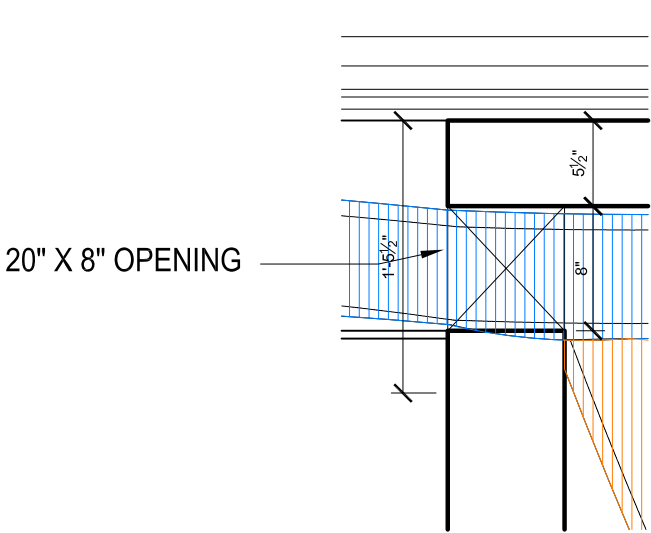
2 DETAILS  
M.2.2



3 DETAILS  
M.2.2



4 DETAILS  
M.2.2



5 DETAILS  
M.2.2

date	
revision	
description	

consultants:

engineer's stamp

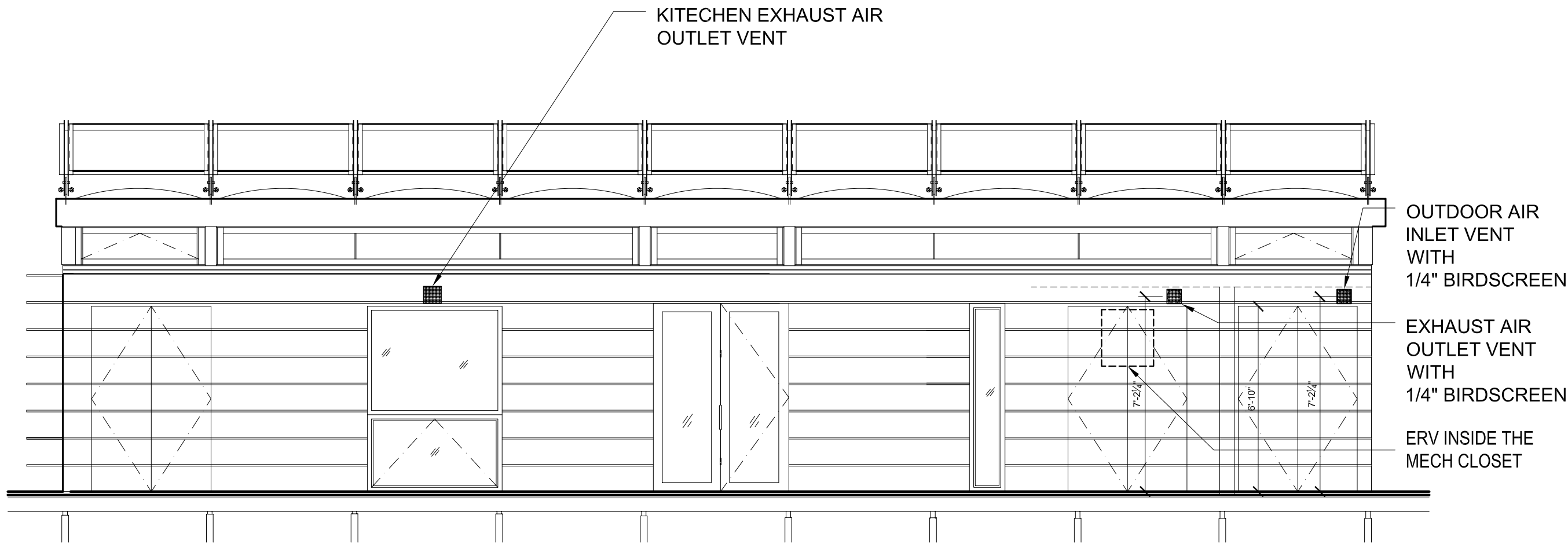
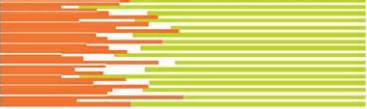
prepared by:  
Shreyansh  
Ajeeta Dhole

date drawn:  
08.06.07  
03.03.07

scale: 1/4" : 1' 0"

M.2.2

HVAC : VENTILATION SYSTEM



1  
M.2.3

NORTH ELEVATION: VENTILATION SYSTEM

date

description

revision

consultants:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

engineer's  
stamp

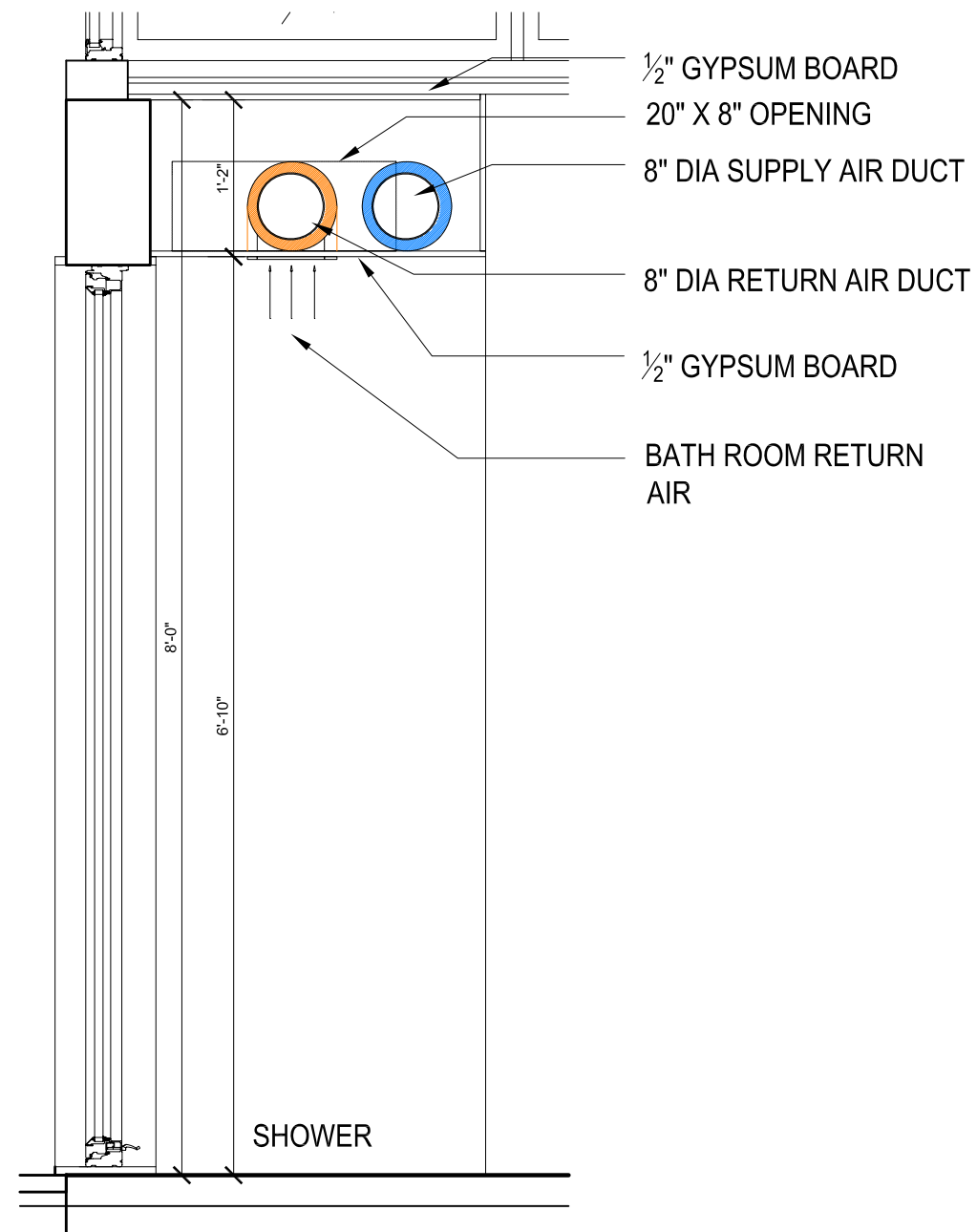
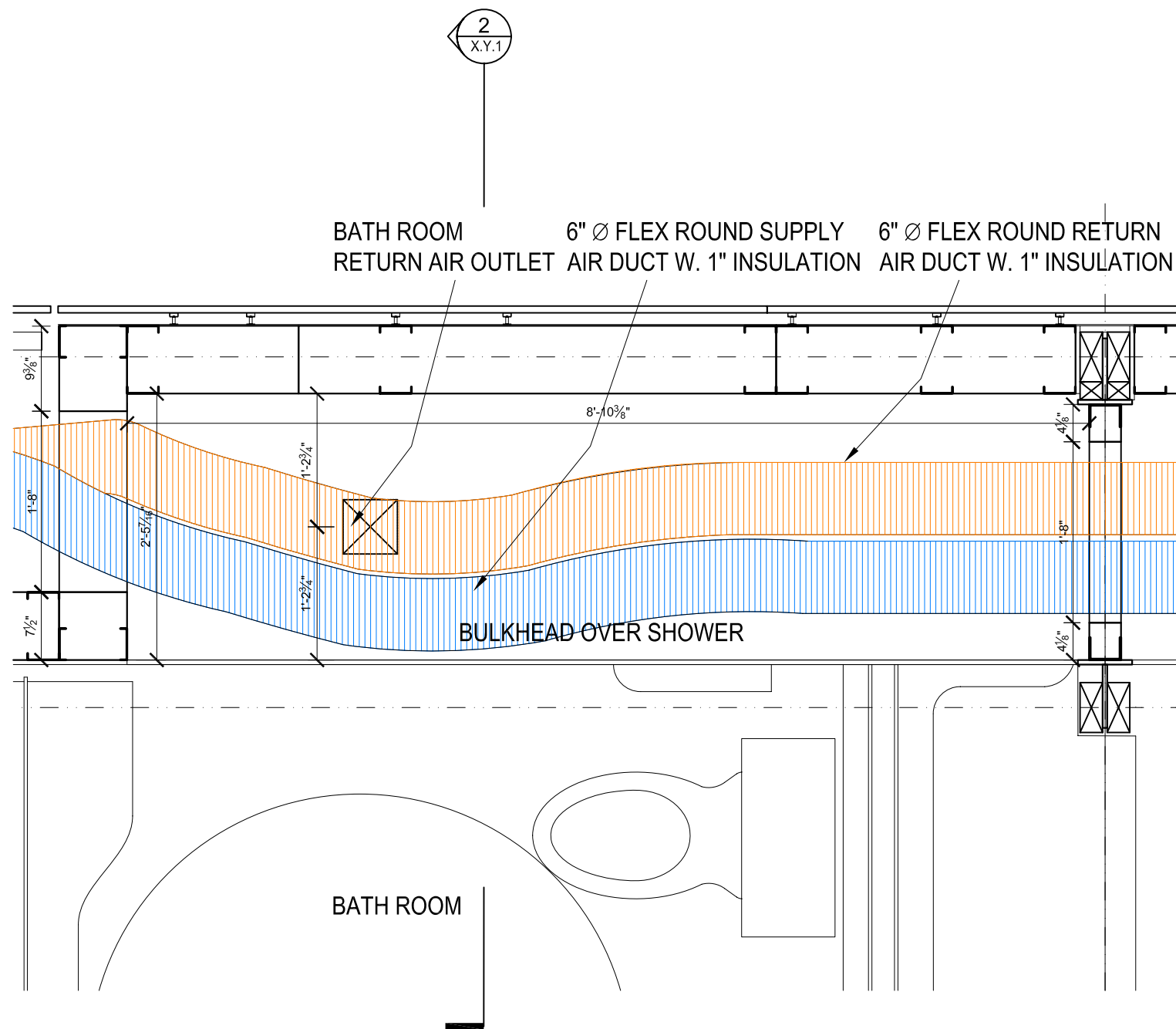
prepared by:  
**Shreyansh**

date drawn:  
**08.06.07**

scale: **1/4" : 1' 0"**

**M.2.3**

HVAC : VENTILATION SYSTEM



date

--

description

--

revision

--

consultants:

--

engineer's  
stamp

prepared by:  
**Shreyansh**

date drawn:  
**08.06.07**

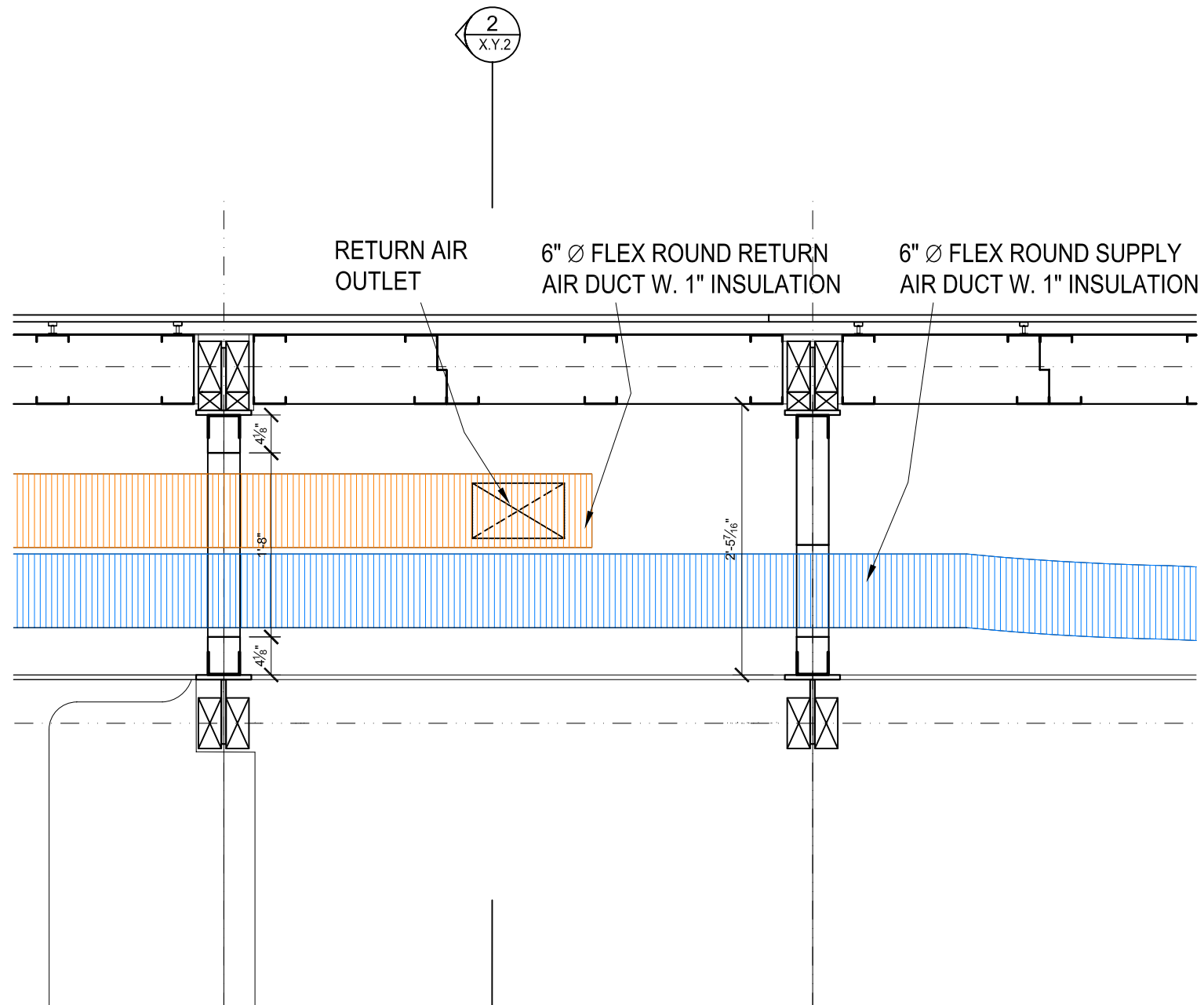
scale: 3/4" : 1' 0"

HVAC : VENTILATION SYSTEM

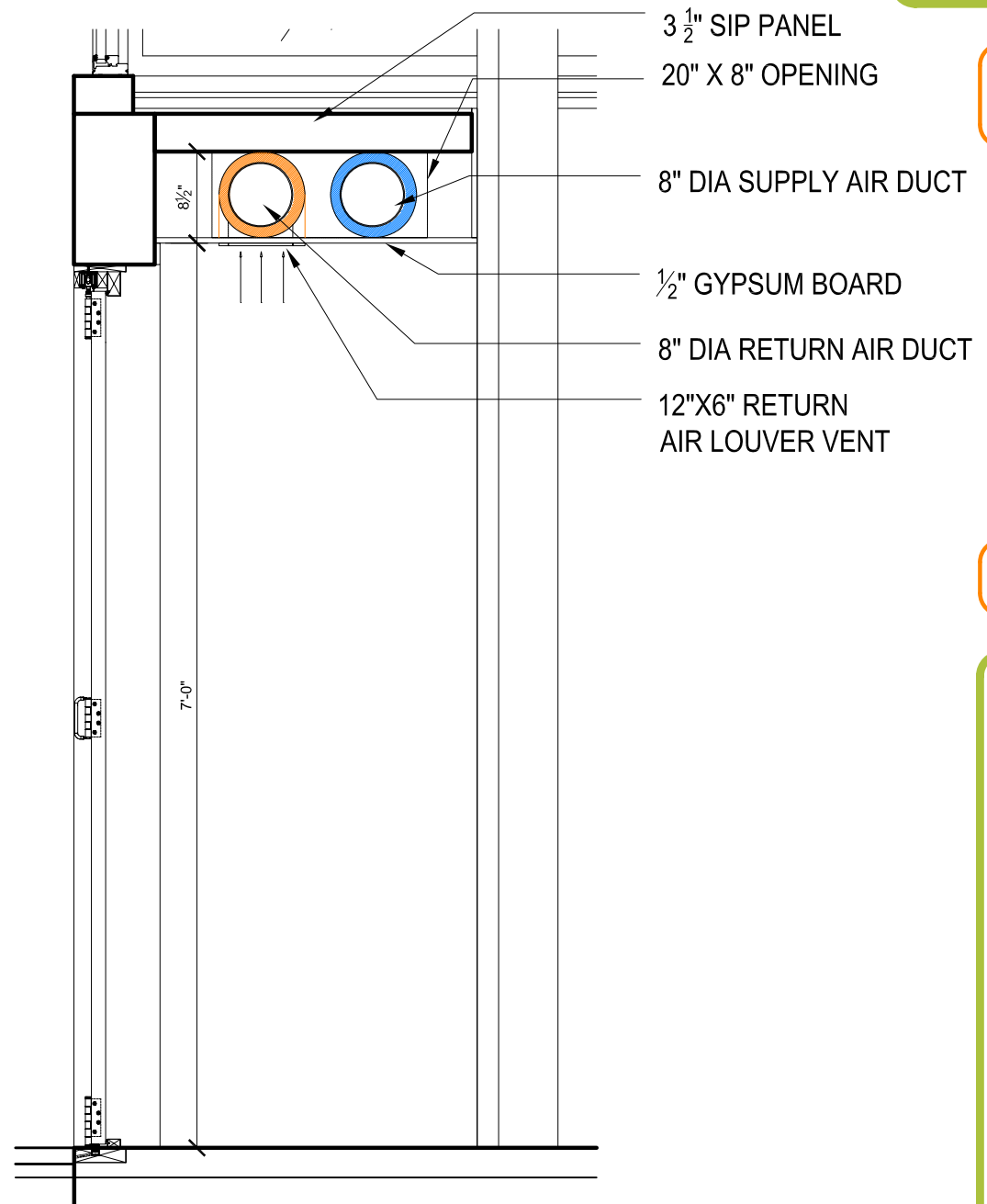
M.2.4

1 PLAN  
M.2.4

2 CROSS SECTION  
LOOKING WEST  
M.2.4



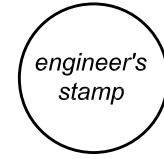
1 PLAN  
M.2.5



2 CROSS SECTION  
LOOKING WEST  
M.2.5

date	
revision	
description	

consultants:



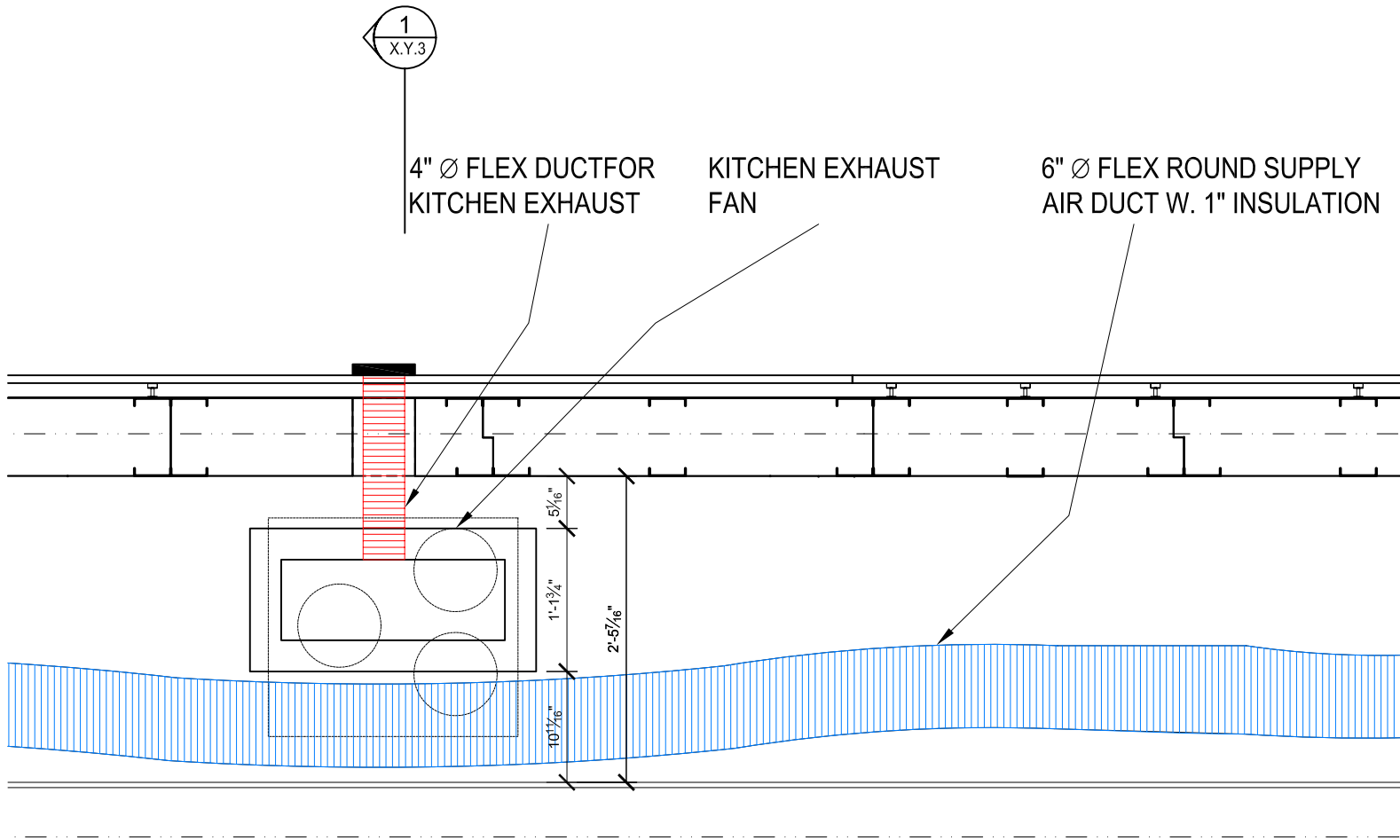
prepared by:  
**Shreyansh**

date drawn:  
**08.03.07**

scale: 3/4" : 1' 0"

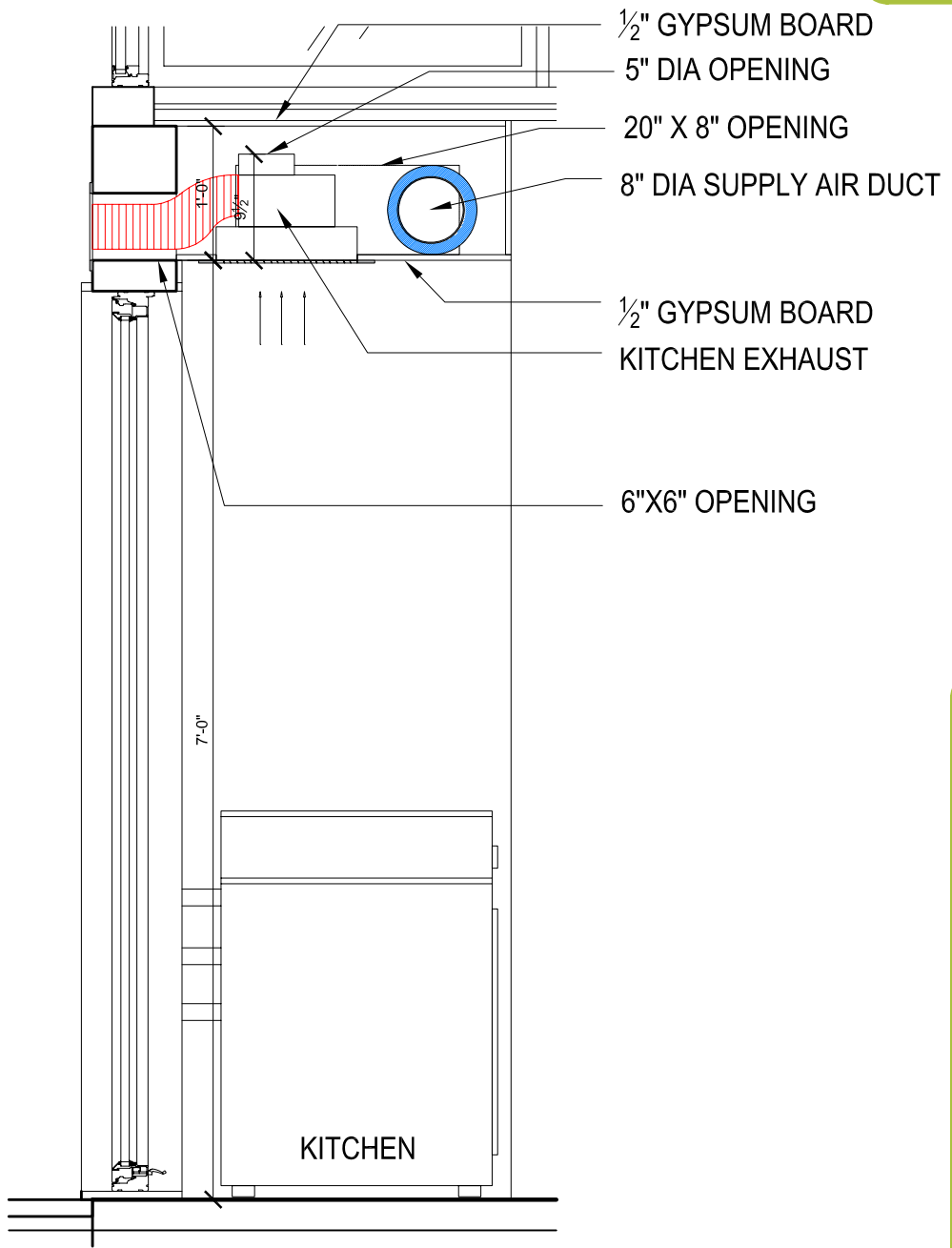
HVAC : VENTILATION SYSTEM

M.2.5



1  
M.2.6

CROSS SECTION  
LOOKING WEST



1  
M.2.6

CROSS SECTION  
LOOKING WEST

date	description	revision

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

engineer's stamp

prepared by:  
**Shreyansh**

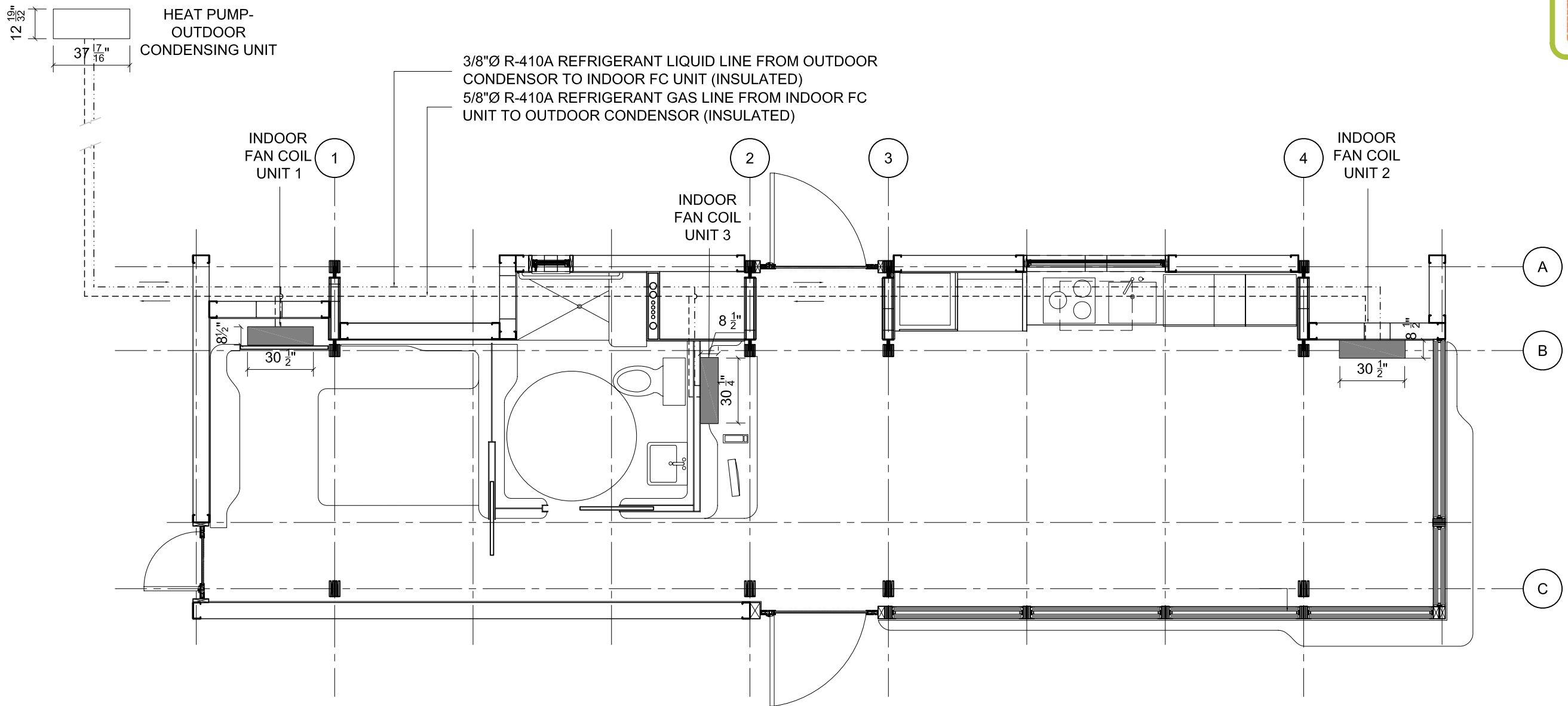
date drawn:  
**08.06.07**

scale: 3/4" : 1' 0"

M.2.6

HVAC : VENTILATION SYSTEM





NOTES :

1. HEAT PUMP- OUTDOOR CONDENSING UNIT - MITSUBISHI ELECTRICAL MXZ-3A30NA
2. HEAT PUMP - INDOOR FAN COIL UNIT (BEDROOM AND STUDY) - MITSUBISHI ELECTRICAL MSZ-A9NA
3. HEAT PUMP - INDOOR FAN COIL UNIT (LIVING) - MITSUBISHI ELECTRICAL MSZ-A12NA
4. 12" CLEARANCE TO BE PROVIDED ON ALL SIDES OF THE CONDENSOR UNIT

date	
description	
revision	

consultants:



engineer's  
stamp

prepared by:

Shreyansh  
Ajeeta Dhole

date drawn:

08.06.07

03.02.07

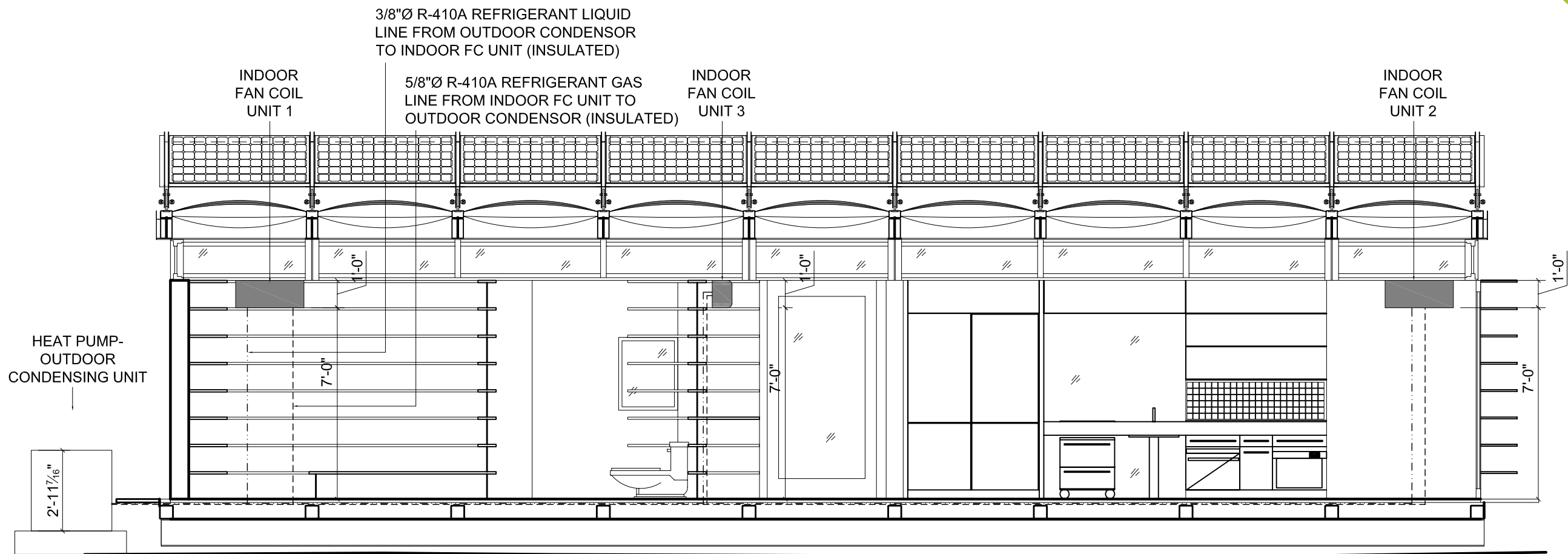
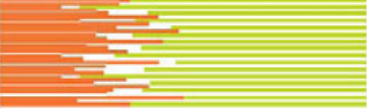
11.30.06



scale: 1/4" = 1' 0"

PLAN - DUCTLESS MULTI - SPLIT HEAT PUMP

M.3.0



NOTES :

1. HEAT PUMP- OUTDOOR CONDENSING UNIT - MITSUBISHI ELECTRICAL MXZ-3A30NA
2. HEAT PUMP - INDOOR FAN COIL UNIT (BEDROOM AND STUDY) - MITSUBISHI ELECTRICAL MSZ-A9NA
3. HEAT PUMP - INDOOR FAN COIL UNIT (LIVING) - MITSUBISHI ELECTRICAL MSZ-A12NA
4. 12" CLEARANCE TO BE PROVIDED ON ALL SIDES OF THE CONDENSOR UNIT

date

description

revision

consultants:

engineer's stamp

prepared by:

Shreyansh  
Ajeeta Dhole

date drawn:

08.06.07

03.02.07

11.30.06



scale: 1/4" : 1' 0"

SEC ELEV - DUCTLESS MULTI-SPLIT HEAT PUMP

M.3.1

1

M.3.1

SECTIONAL ELEVATION - DUCTLESS MULTI - SPLIT HEAT PUMP UNIT

ELECTRICAL NOTES

1.0.0 GENERAL

1.0.1 THE PV DIAGRAM DEPICTS A STAND-ALONE PHOTOVOLTAIC SYSTEM WITH BATTERY STORAGE

1.0.2 ALL EQUIPMENTS INCLUDING PV MODULE, INVERTERS, CHARGE CONTROL AND BATTERIES SHALL BE UL LISTED AND SHALL ME ASSEMBLED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS

1.0.3. PV MOUNTED SUPPORT SHALL BE GROUNDED

2.0.0 RECEPTACLE OUTLETS [REF: SECTION E3801, 2006 REC]

2.0.1 RECEPTACLE IN BEDROOM, DINING, LIVING, STUDY AND KITCHEN SHALL BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6'-0" FROM RECEPTACLE OUTLET

2.0.2 FLOOR RECEPTACLES SHALL BE INSTALLED WITHIN 18" DISTANCE FROM THE WALL

2.0.3 RECEPTACLE OUTLETS FOR WALL COUNTER IN KITCHEN SHALL BE INSTALLED SO THAT NO POINT IN ALONG THE WALL LINE IS 24"

2.0.4 RECEPTACLE OUTLETS FOR WALL COUNTER SHALL NOT BE MORE THAN 20" ABOVE THE COUNTER TOP

2.0.5 APPLIANCE RECEPTACLE OUTLETS INSTALLED FOR SPECIFIC APPLIANCES, SUCH AS REFRIGERATOR OR DISH WASHER SHALL BE INSTALLED WITHIN 6'-0" OF THE INTENDED LOCATION OF THE APPLIANCE

2.0.6 RECEPTACLE IN BATHROOM SHALL BE INSTALLED WITHIN 3'-0" OF THE OUTSIDE EDGE OF WASH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON THE WALL OR PARTITION THAT IS ADJACENT TO THE WASH BASIN AND SHALL BE LOCATED WITHIN 20" ABOVE THE BASIN TOP

2.0.7 EXTERIOR RECEPTACLE SHOULD BE WATER PROOFED AND SHALL BE INSTALLED NOT MORE THAN 6'-6" ABOVE DECK LEVEL

2.0.8 ONE 120 V DUPLEX RECEPTACLE SHALL BE INSTALLED WITHIN 25'-0" DISTANCE FROM HVAC EQUIPMENTS FOR SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT

1.0.9 BATHROOM AND KITCHEN COUNTER RECEPTACLE SHALL HAVE GFCI PROTECTION [REF: SECTION E3802, 20006 REC]

3.0.0 LOCATION OF SWITCHES, CONTROLS AND RECEPTACLE OUTLETS [REF: ADA GUIDELINES]








3.0.1 ALL SWITCHES, CONTROLS AND RECEPTACLE SHALL BE MINIMUM OF 15" AND MAXIMUM OF 54" TO CENTERLINE, ABOVE THE FINISHED FLOOR LEVEL

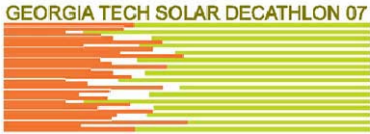
4.0.0 WIRING

4.0.1 ALL WIRING FOR INTERIOR SPACES SHALL RUN BELOW THE FINISHED FLOOR AND SHALL PULLED UP ON THE WALL SURFACE FOR ELECTRICAL INSTALLATIONS THROUGH WIRE CHASE WITHIN SIP WALLS

4.0.2 CONTROLS, DATA, TV AND TELEPHONE WIRING SHALL BE INDEPENDENT OF 120V AC/ 240V AC WIRING

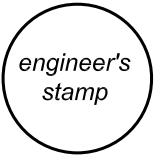
ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	120 V DUPLEX RECEPTACLE
	120 V DUPLEX RECEPTACLE (GFCI AND WATER PROOF)
	120 V DUPLEX RECEPTACLE (GFCI)
	120 V SPECIAL PURPOSE RECEPTACLE OUTLET
	240 V SPECIAL PURPOSE RECEPTACLE OUTLET
	FLOOR RECEPTACLE
	SMOKE DETECTOR



date			
revision			

consultants:

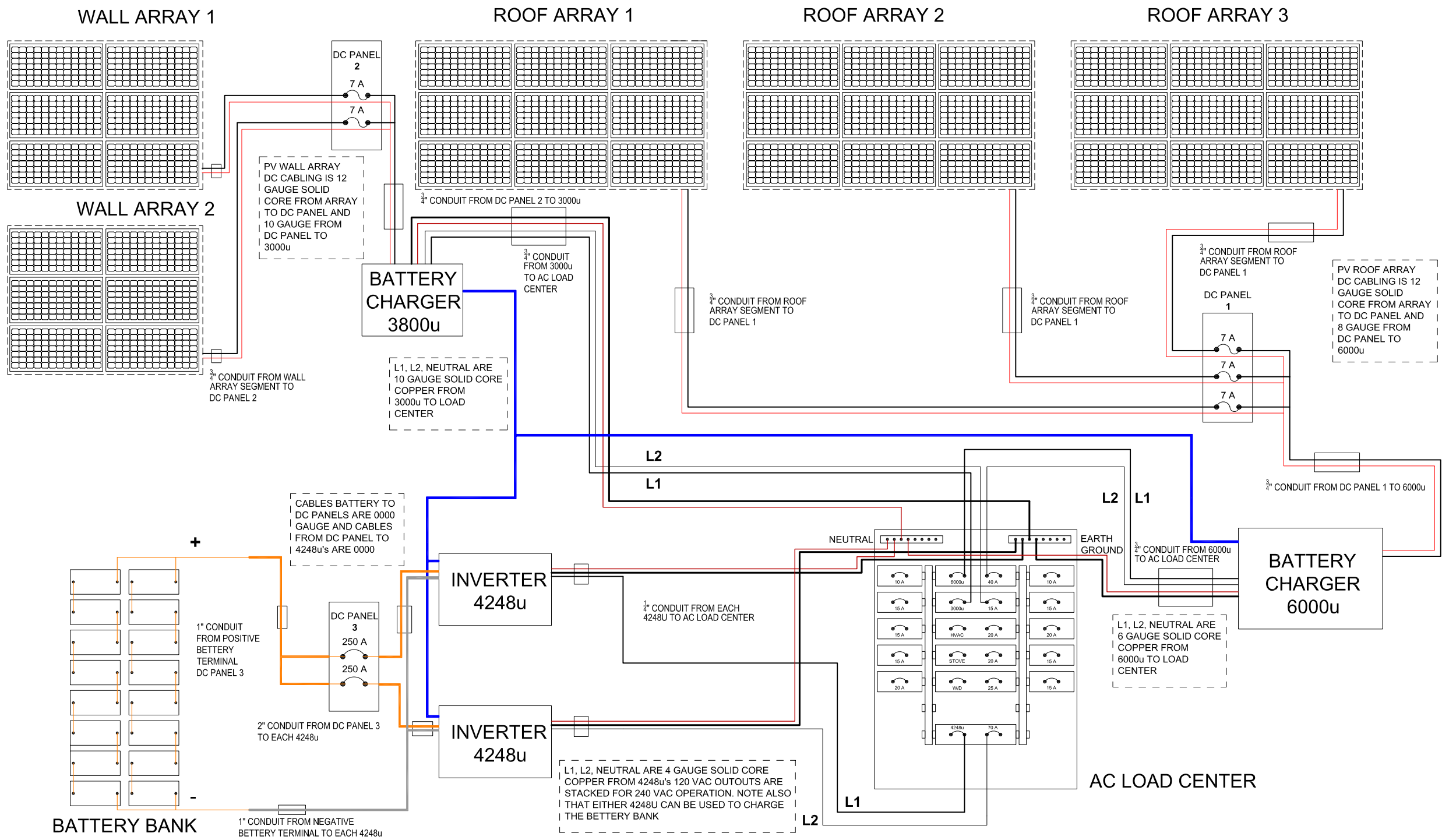


prepared by:  
**Shreyansh**  
date drawn:  
**08.06.07**  
**03.02.07**  
**12.06.06**



ELECTRICAL NOTES/ LEGEND

E.0.0



date	
description	
revision	

consultants:

engineer's stamp

prepared by:  
**Shreyansh**  
date drawn:  
08.06.07  
**03.03.07**  
12.03.06



scale: none

PV ARRAY

E.1.0

NOTES:

1. EACH ROOF BANK CONSISTS OF 9 SUNPOWER 220 PANELS WIRED IN SERIES. MAXIMUM POWER POINT VOLTAGE IS 358 VDC @5.53 AMPS. OPEN CIRCUIT VOLTAGE IS APPROXIMATELY 435 VDC. NOTE THAT PANELS ARE POSITIVE GROUND, SUCH THAT POSITIVE GROUND IS 0 VOLTS AND THE NEGATIVE TERMINAL WILL BE -435 VOLTS MAXIMUM.
2. FRONT WALL BANK CONSISTS OF 12 SUNPOWER 215 PANELS WIRED IN SERIES. MAXIMUM POWER POINT VOLTAGE IS 239 VDC @5.53 AMPS. OPEN CIRCUIT VOLTAGE IS APPROXIMATELY 290 VDC. NOTE THAT PANELS ARE POSITIVE GROUND, SUCH THAT POSITIVE GROUND IS 0 VOLTS AND THE NEGATIVE TERMINAL WILL BE -290 VOLTS MAXIMUM.
3. BATTERY BANK CONSISTS OF 2 PARALLEL STRINGS OF 8 SURRETTE BATTERIES(6-CS-25PS) CONNECTED IN SERIES. THE BETTERY BANK VOLTAGE IS 48V AND THE CAPACITY IS 1025 AMPS-HR AT 100 HR RATE.



ELECTRIC CAR  
WITH CHARGING  
STATION

SUPPLY WATER  
PUMP

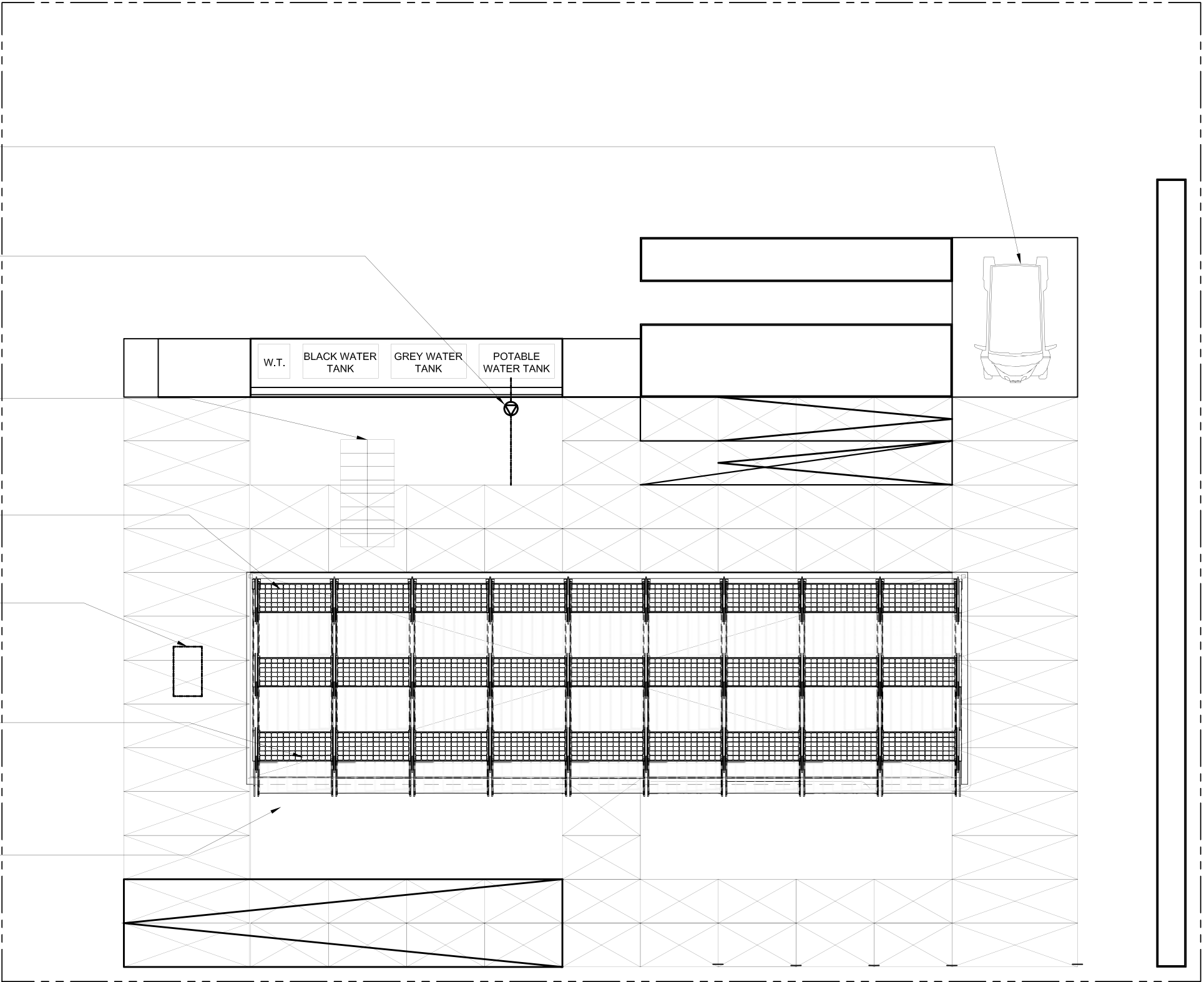
BATTERY BANK  
BELOW THE DECK

LOCATION OF  
ELECTRIC CLOSET

SUBMERSIVE  
PUMP FOR  
IRRIGATION

PV ARRAY ON  
THE ROOF

PV ARRAY ON  
THE SOUTH WALL



date

description

revision

consultants:



engineer's  
stamp

prepared by:

Shreyansh

date drawn:

06.08.07

03.03.07

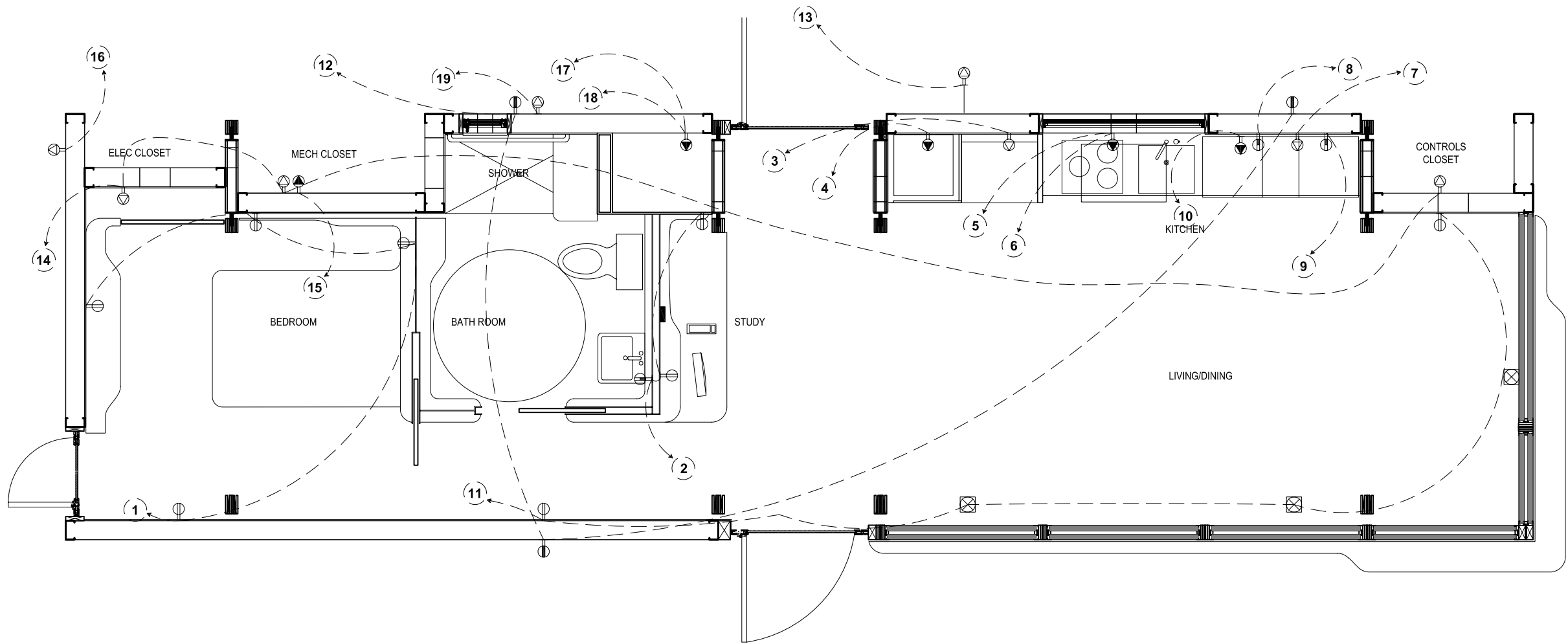


scale: none

SITE ELECTRICAL

E.2.0





1 PLAN: CIRCUIT LAYOUT  
E.2.2

date

description

revision

consultants:

engineer's stamp

prepared by:  
Shreyansh

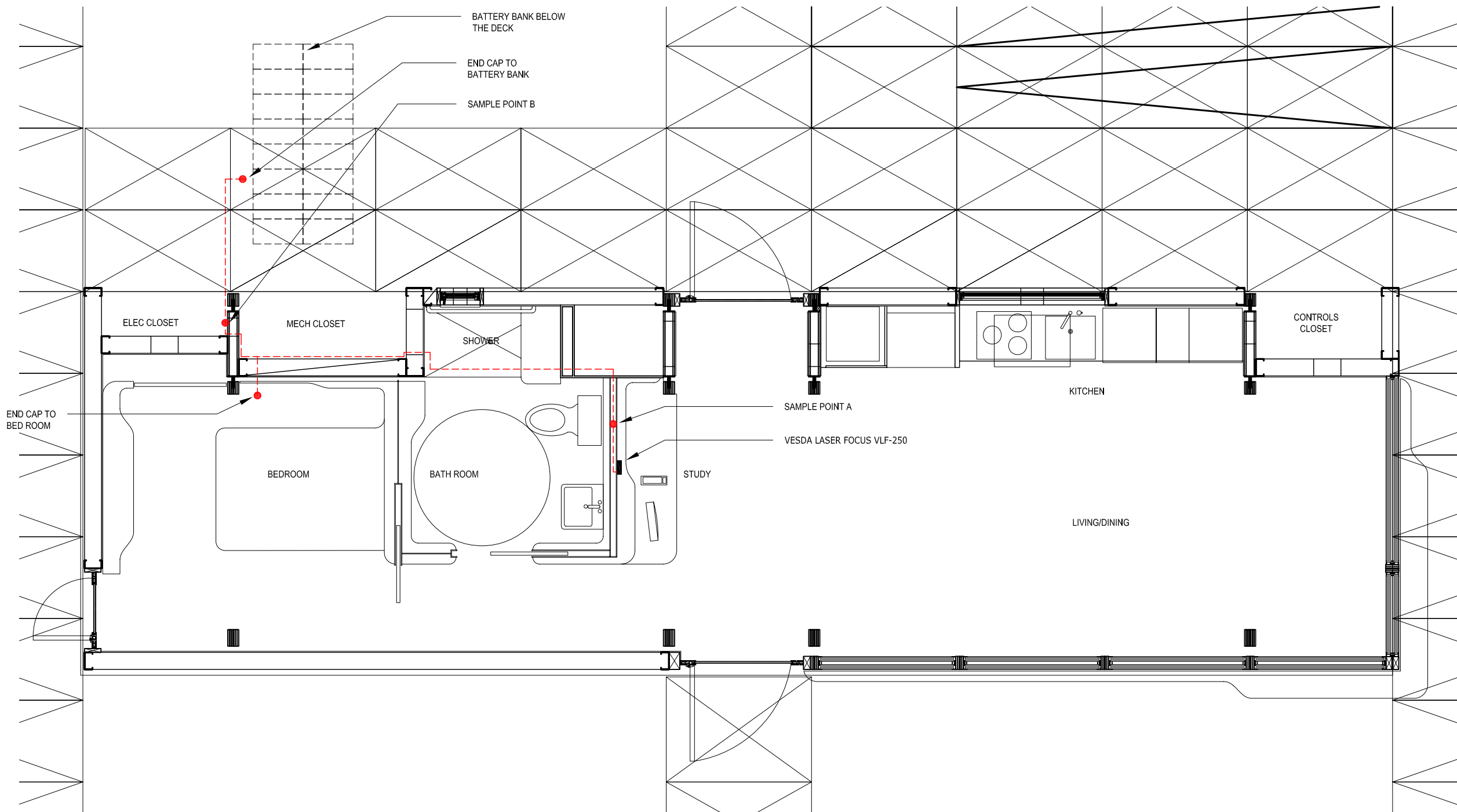
date drawn:  
08.06.07



scale: 1/4"= 1'-0"

E.2.1

ELECTRICAL : PLAN



1 PLAN: SMOKE DETECTION SYSTEM  
E.2.2

NOTES:  
REFER ELEVATIONAL SECTION-E.2.3 FOR THE LOCATION OF SAMPLE POINTS AND END CAP

date

description

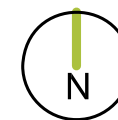
revision

consultants:

engineer's  
stamp

prepared by:  
Shreyansh

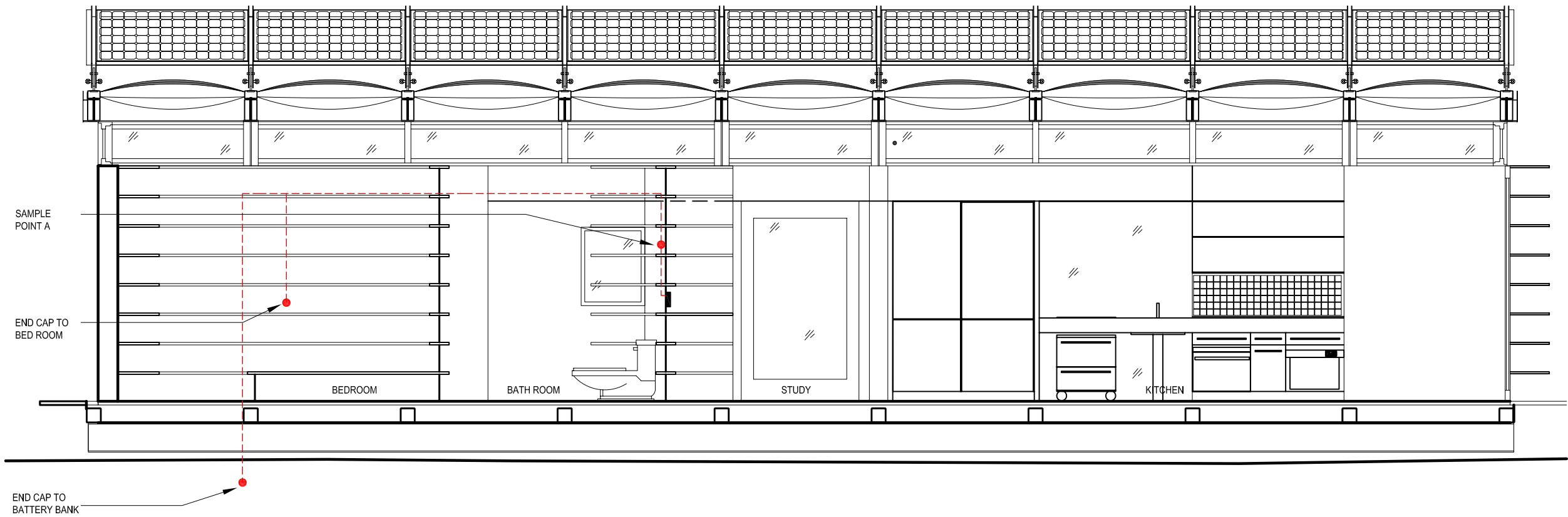
date drawn:  
08.06.07



scale: 1/4"= 1'-0"

E.2.2

ELECTRICAL : SMOKE DETECTION SYSTEM



1 ELEVATIONAL SECTION: SMOKE DETECTION SYSTEM  
E.2.3

NOTES:  
REFER PLAN -E.2.2 FOR THE LOCATION OF SAMPLE POINTS AND END CAP

date	
revision	
description	

consultants:

engineer's stamp

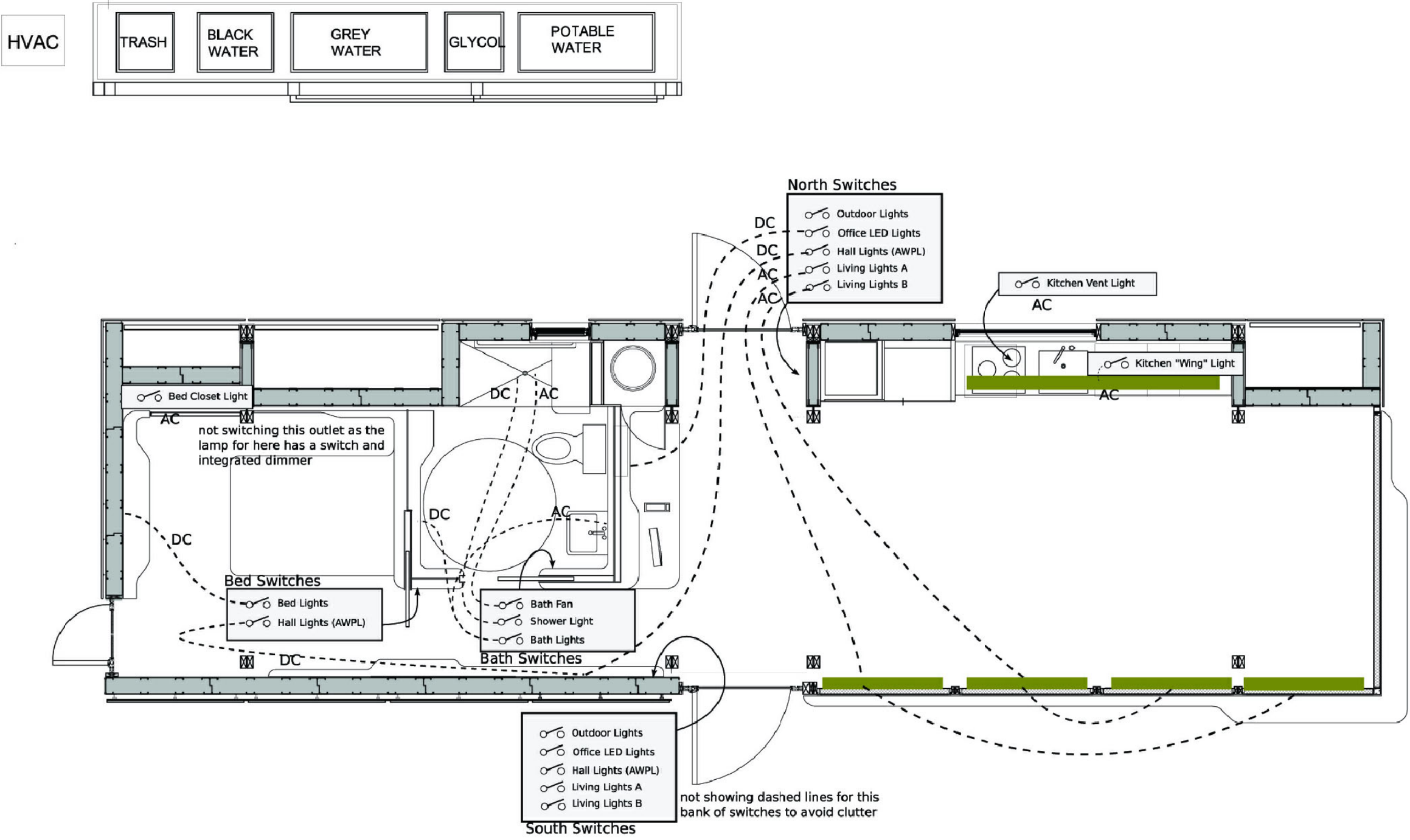
prepared by:  
Shreyansh

date drawn:  
08.06.07

scale: 1/4"= 1'-0"

E.2.3

ELECTRICAL : SMOKE DETECTION SYSTEM



date	
description	
revision	

consultants:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

engineer's stamp

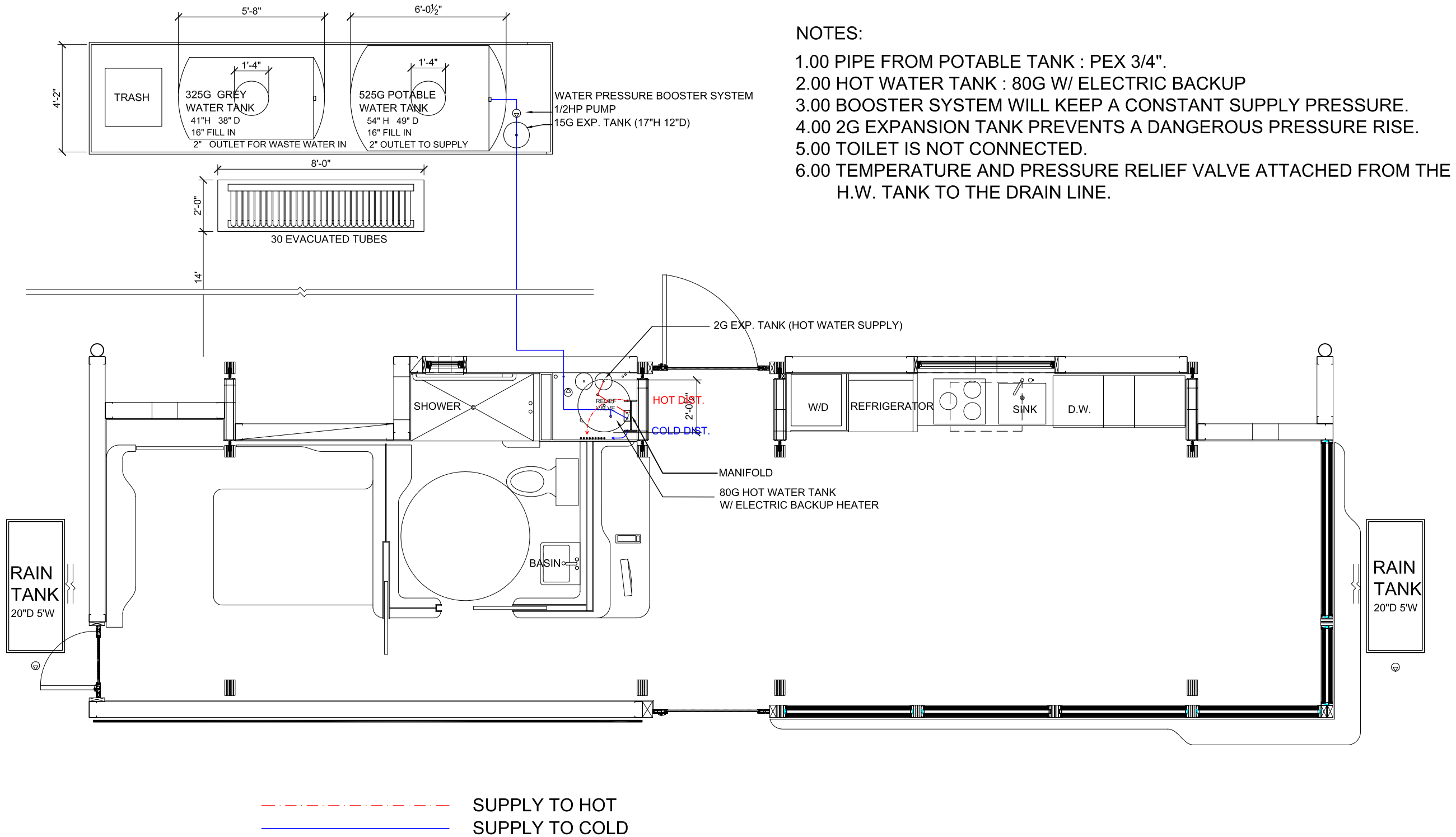
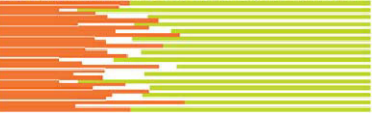
prepared by:  
**Shreyansh**

date drawn:  
**08.06.07**



ELECTRICAL : LIGHTING

E.2.4



12.04.2006

Tanks added under deck

001

consultants:



prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY  
date drawn:  
8.03.07

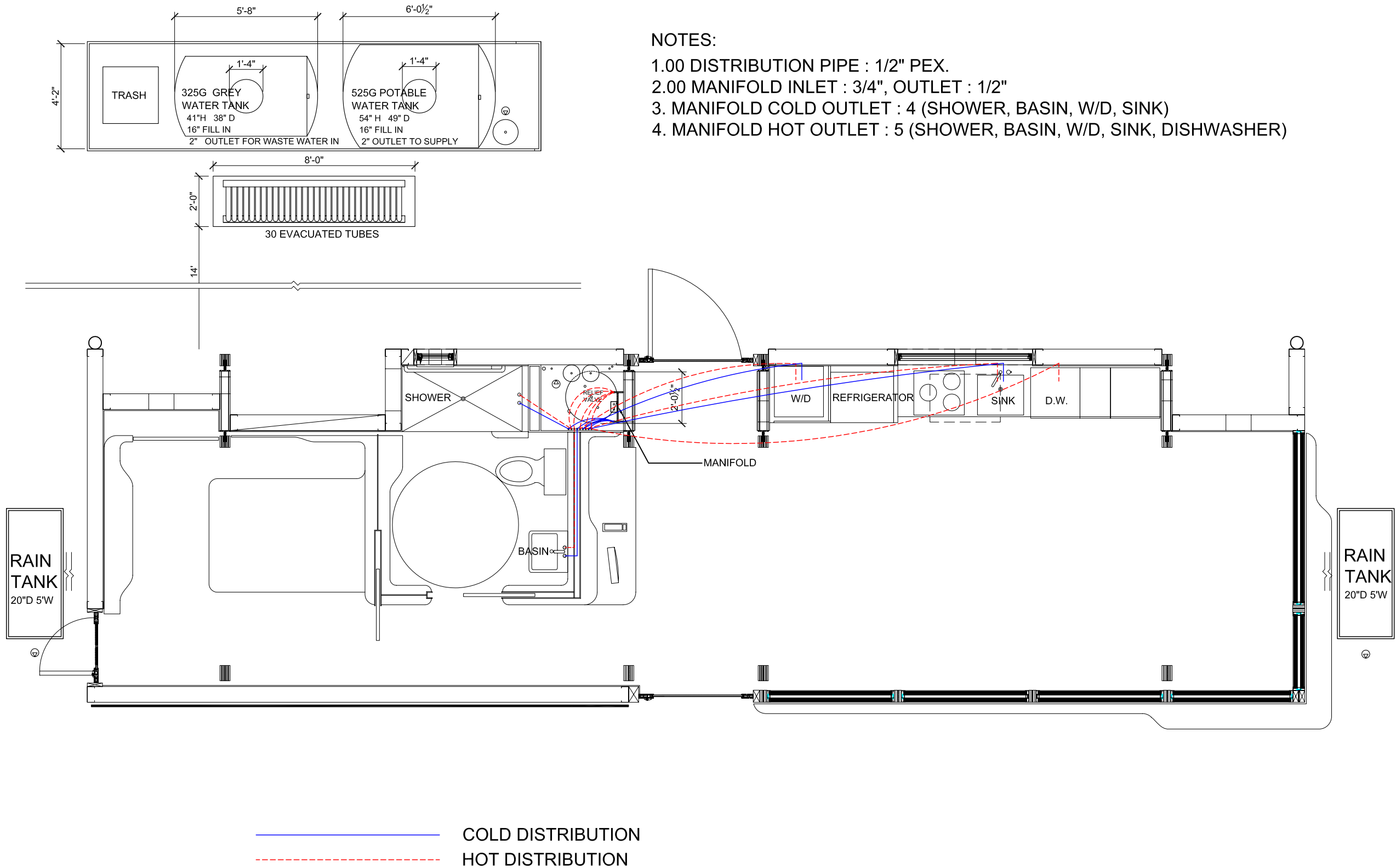
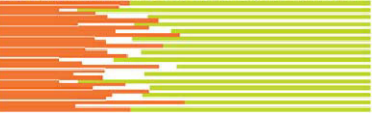


scale: NTS

P.1.0

PLUMBING SUPPLY PLAN





12.04.2006

Tanks added under deck

001

consultants:



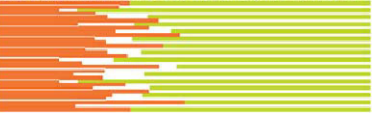
prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY  
date drawn:  
8.03.07



scale: NTS

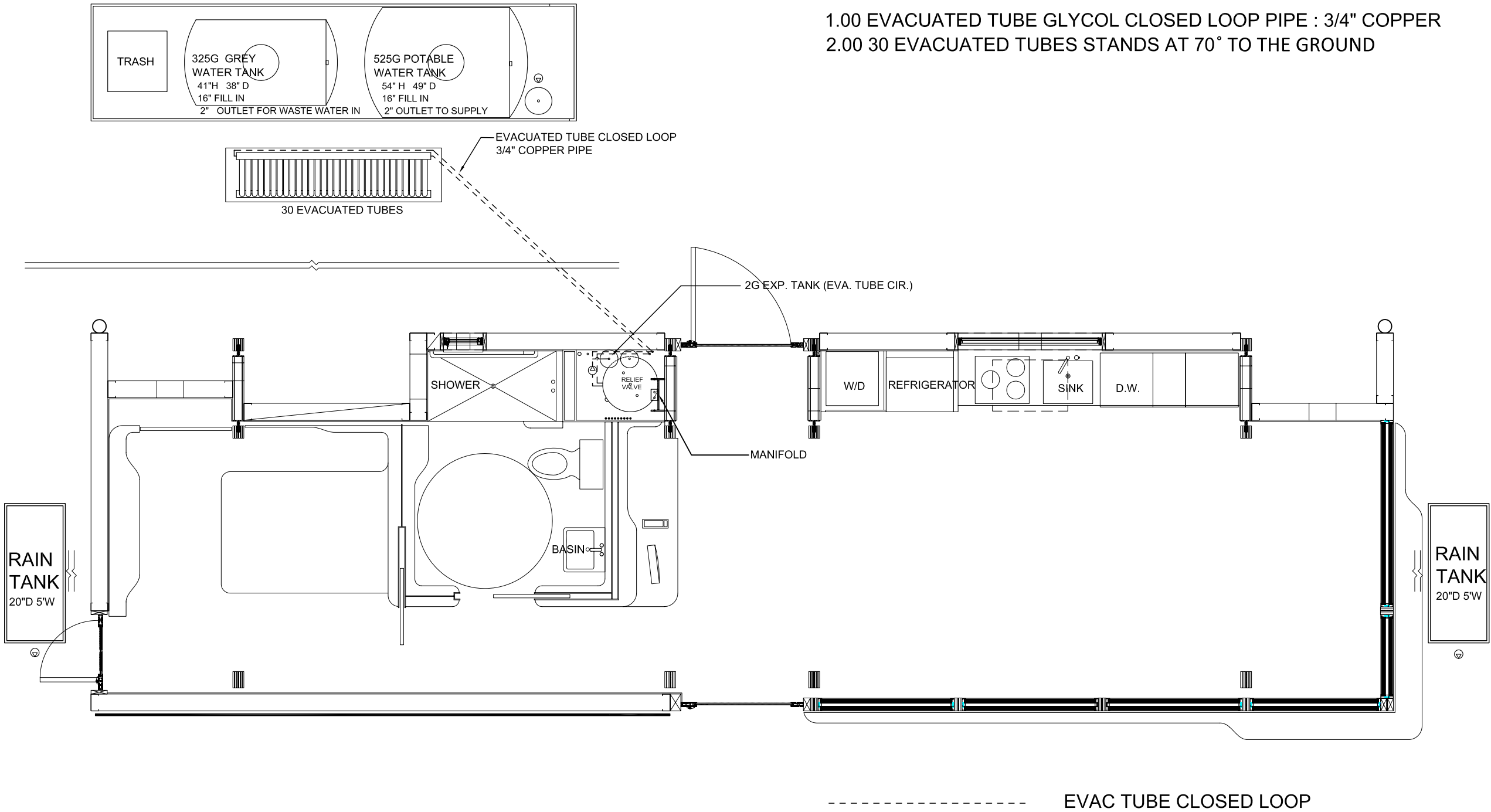
P.2.0

PLUMBING DISTRIBUTION PLAN



NOTES:

- 1.00 EVACUATED TUBE GLYCOL CLOSED LOOP PIPE : 3/4" COPPER
- 2.00 30 EVACUATED TUBES STANDS AT 70° TO THE GROUND



12.04.2006

Tanks added under deck

001

consultants:



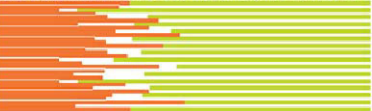
prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY  
date drawn:  
8.03.07



scale: NTS

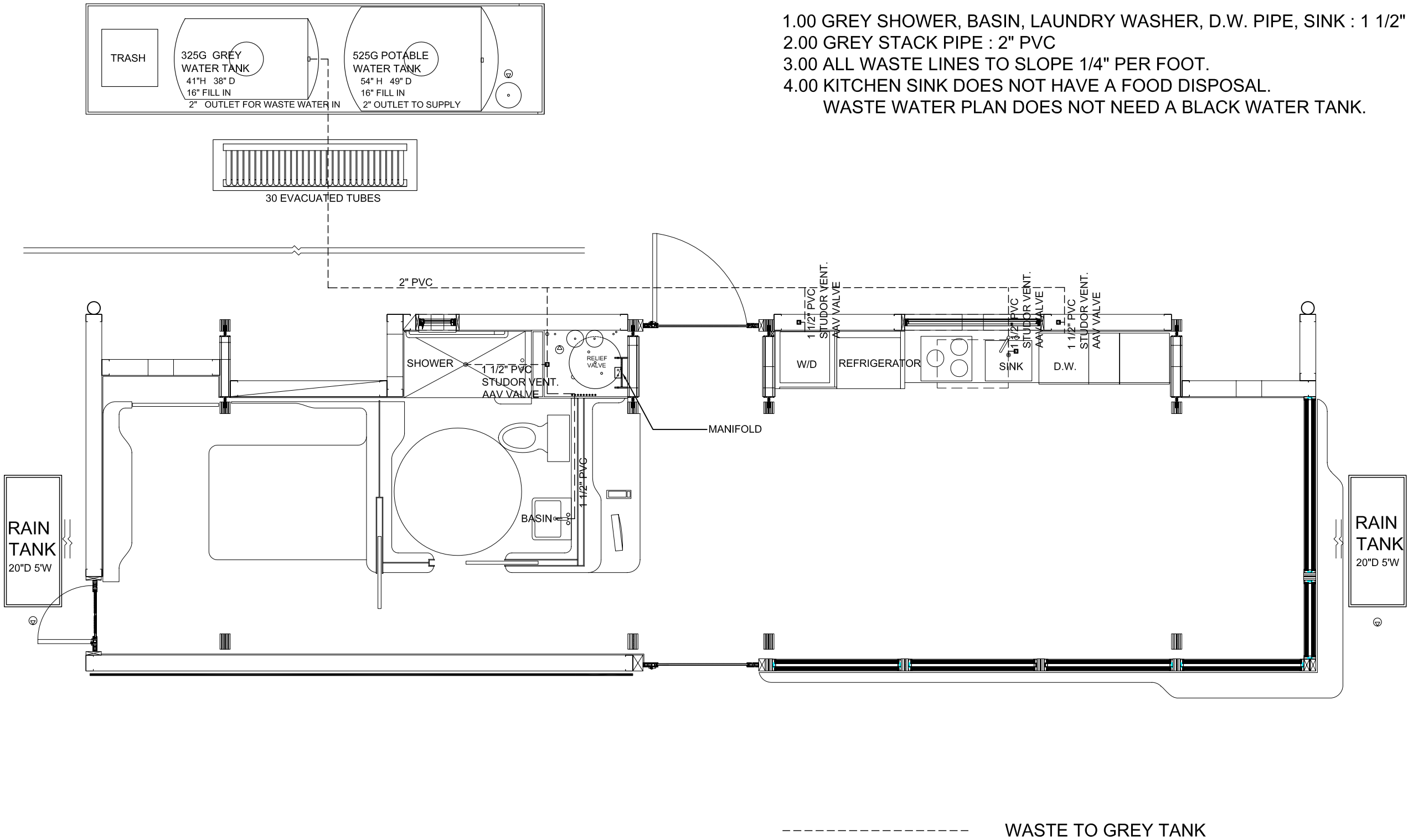
P.3.0

PLUMBING SOLAR COLLECTOR PLAN



NOTES:

- 1.00 GREY SHOWER, BASIN, LAUNDRY WASHER, D.W. PIPE, SINK : 1 1/2" PVC
  - 2.00 GREY STACK PIPE : 2" PVC
  - 3.00 ALL WASTE LINES TO SLOPE 1/4" PER FOOT.
  - 4.00 KITCHEN SINK DOES NOT HAVE A FOOD DISPOSAL.
- WASTE WATER PLAN DOES NOT NEED A BLACK WATER TANK.



12.04.2006

Tanks added under deck

001

consultants:



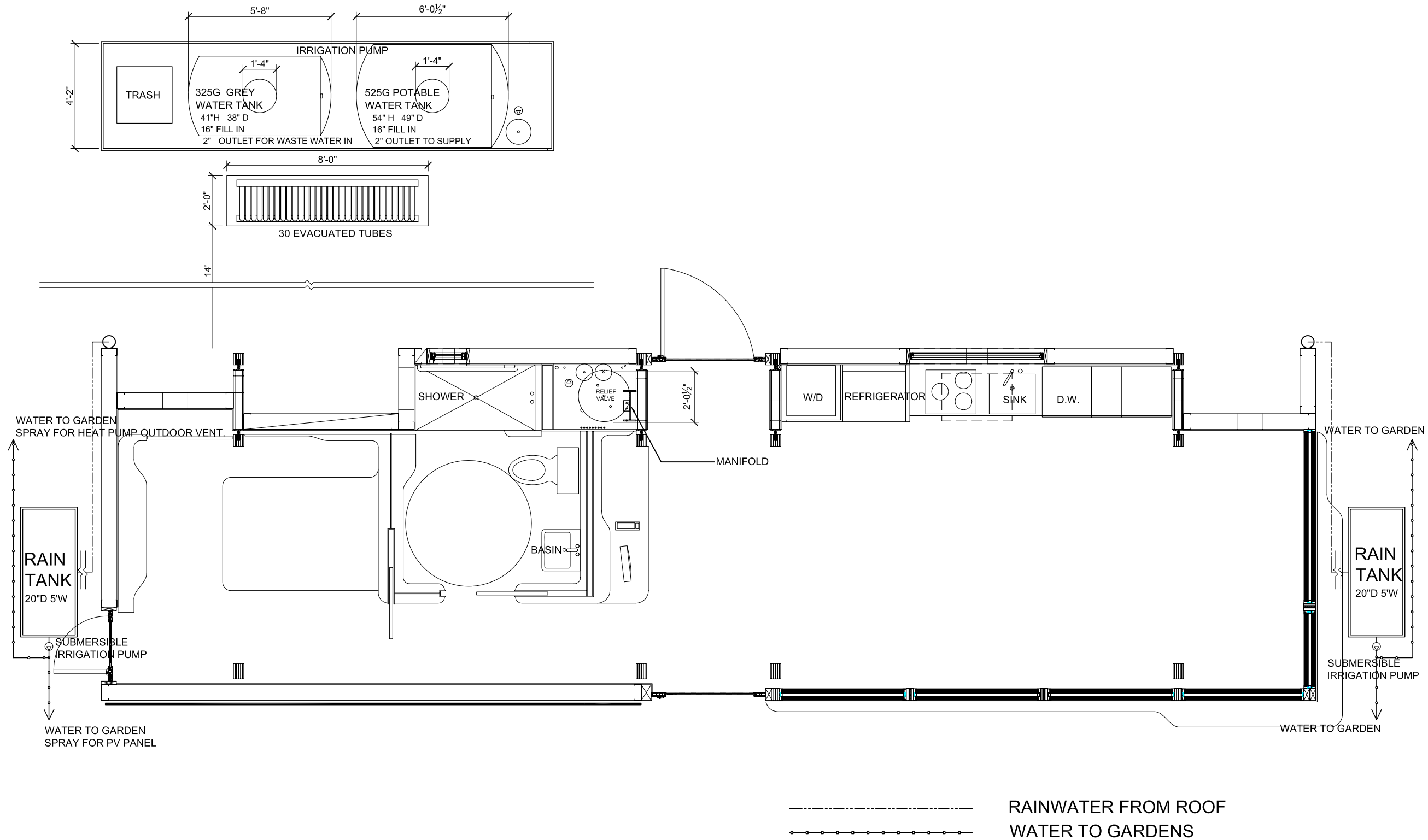
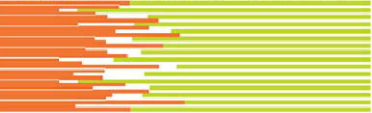
prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY  
date drawn:  
8.03.07



scale: NTS

P.4.0

PLUMBING WASTE PLAN



12.04.2006

Tanks added under deck

001

consultants:



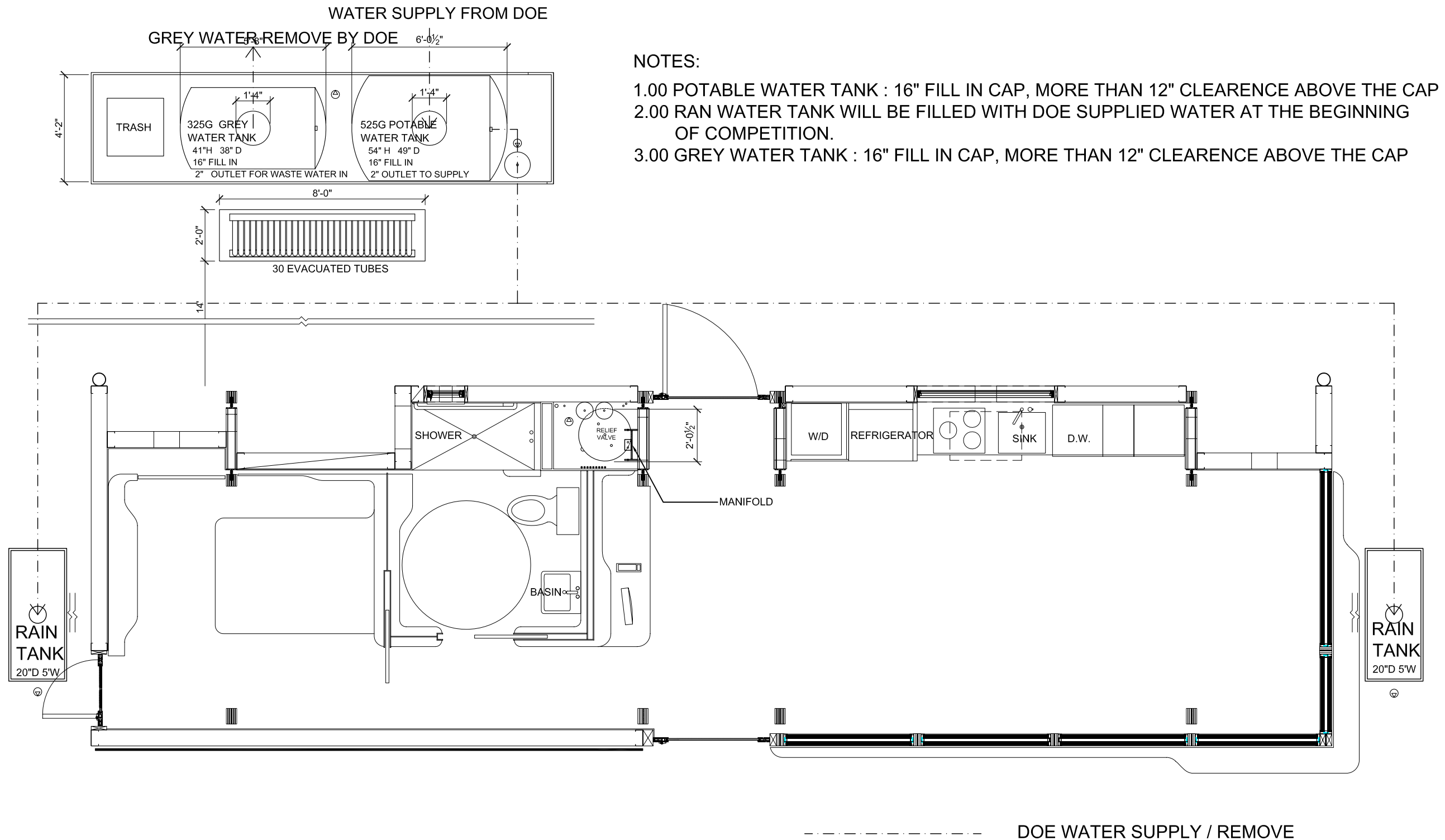
prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY  
date drawn:  
8.03.07



scale: NTS

P.5.0

PLUMBING IRRIGATION PLAN



12.04.2006

Tanks added under deck

001

consultants:



prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY  
date drawn:  
8.03.07

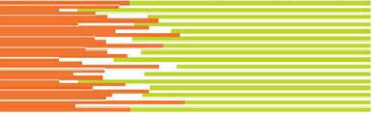


scale: NTS

P.6.0

PLUMBING DOE WATER SUPPLY/REMOVE PLAN



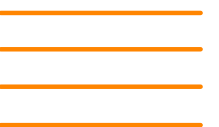


12.04.2006

ADDED KITCHEN TANKS

001

consultants:



prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY  
date drawn:  
8.03.07



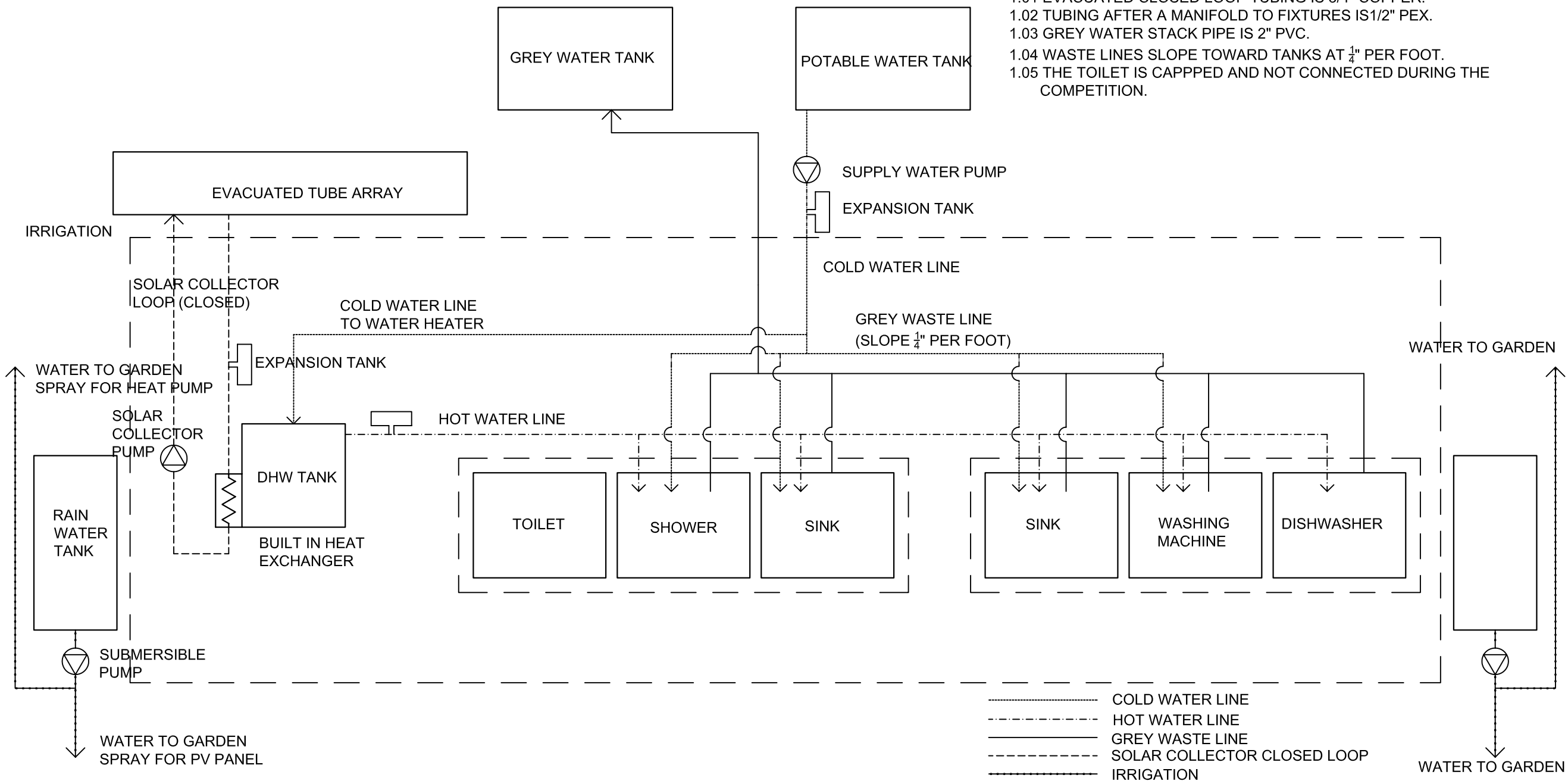
scale: NTS

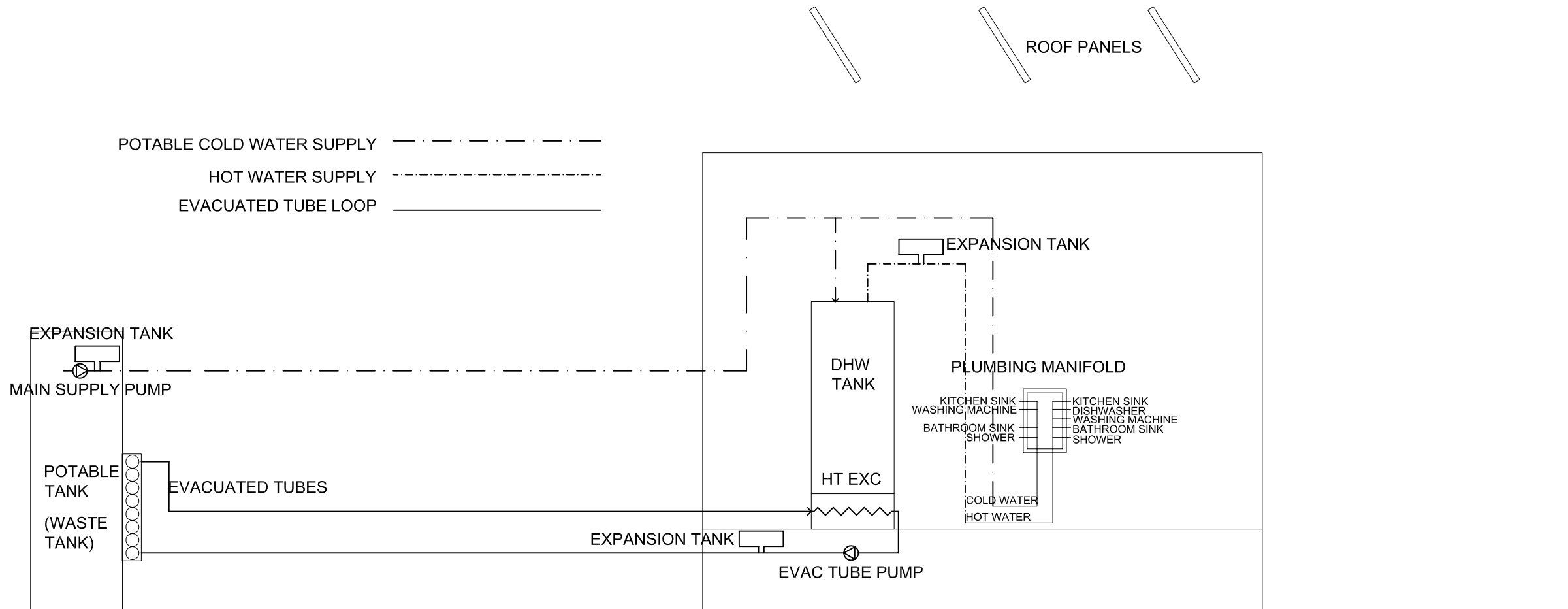
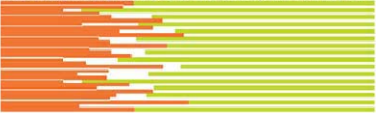
P.7.0

PLUMBING LINE SCHEMATIC

NOTES:

- 1.00 SUPPLY TUBING IS 3/4" PEX TO A MANIFOLD.
- 1.01 EVACUATED CLOSED LOOP TUBING IS 3/4" COPPER.
- 1.02 TUBING AFTER A MANIFOLD TO FIXTURES IS 1/2" PEX.
- 1.03 GREY WATER STACK PIPE IS 2" PVC.
- 1.04 WASTE LINES SLOPE TOWARD TANKS AT 1/4" PER FOOT.
- 1.05 THE TOILET IS CAPPPED AND NOT CONNECTED DURING THE COMPETITION.





12.04.2006

REMOVED INLINE HEAT EXCHANGER

001

consultants:



prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY

date drawn:  
8.03.07

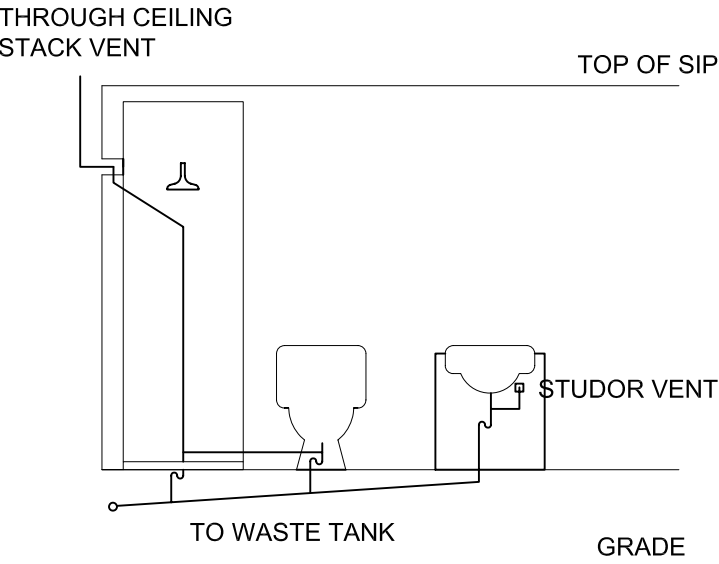


scale: NTS

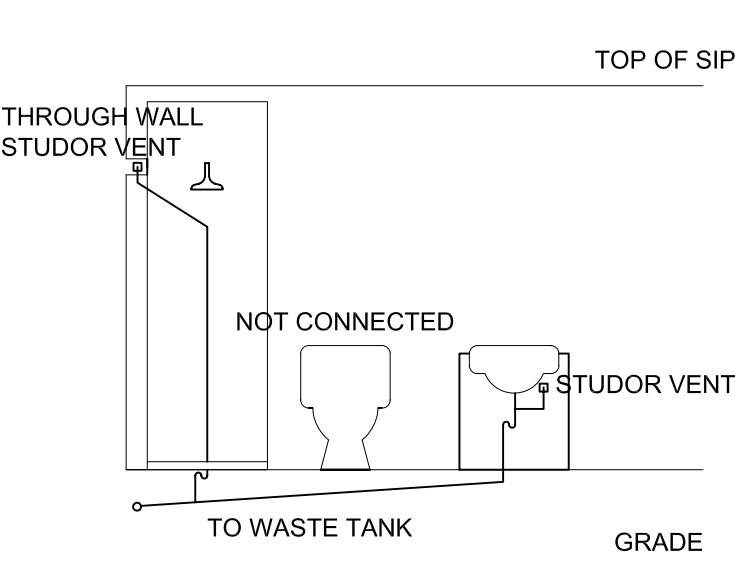
P.8.0

PLUMBING SCHEMATIC: SOLAR SECTION

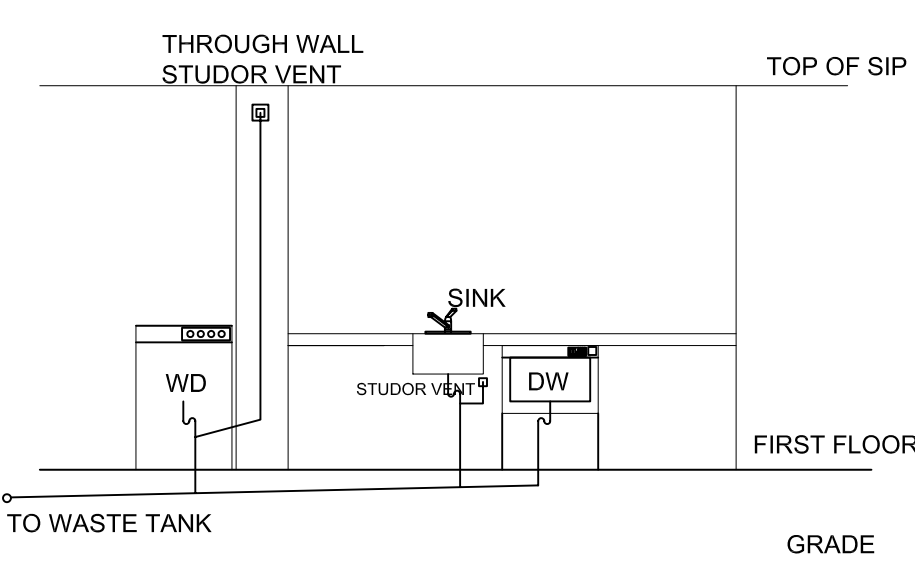
BATHROOM CROSS SECTION  
A. TOILET IS CONNECTED.



BATHROOM CROSS SECTION FOR COMPETITION HOUSE  
B. TOILET IS NOT CONNECTED.

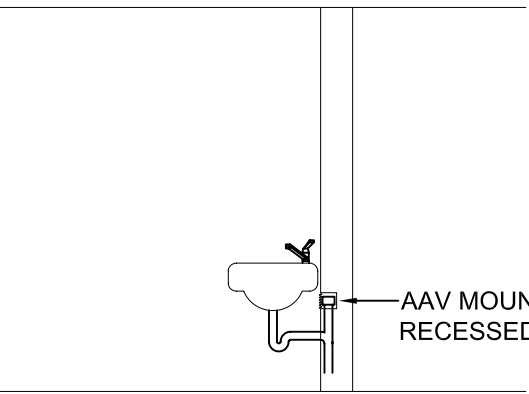


KITCHEN LONGITUDINAL SECTION



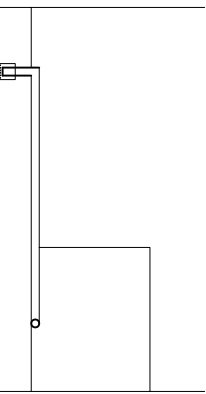
2 PLUMBING RISER DIAGRAM  
P.9.0

SINK SECTION

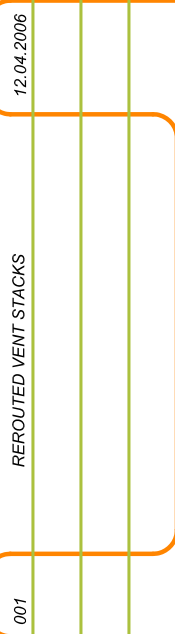


- NOTES:
- 1.01 AAV SHALL BE LOCATED A MINIMUM OF 4" ABOVE HORIZONTAL BRANCH LINE.
  - 1.02 VALVE SHALL CONNECT TO THE DRAIN WITH A VERTICAL CONNECTION IN AN UPRIGHT POSITION.
  - 1.03 AAV SHALL BE INSTALLED ACCORDING TO ALL APPLICABLE BUILDING AND PLUMBING CODES AND THE MANUFACTURER'S INSTRUCTIONS.

KITCHEN WALL SECTION



1 PLUMBING RISER DETAIL  
P.9.0



consultants:



prepared by:  
Sang-Hoon Lee  
Rannie Daffon  
C. JASON MABRY  
date drawn:  
8.03.07



scale: NTS

P.9.0

PLUMBING RISER DIAGRAM AND DETAILS