

NORWICH UNIVERSITY

The Delta T90 House explores the interdependency between the economy and the built environment by revealing the hidden values and richness of a conservation-based lifestyle. This high-performance home models the future of affordable, energy efficient living in Vermont.

CODES:

This project was developed under IBC 2012 and using NEC 2011 Article 690.

2013 NORWICH UNIVERSITY SOLAR
DECATHLON

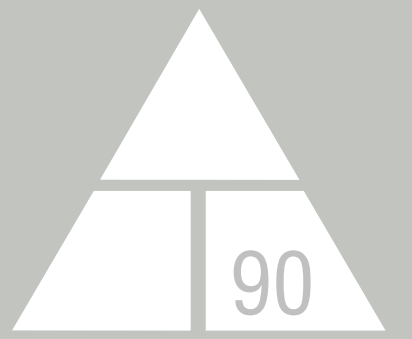
SHT NO	SHEET NAME
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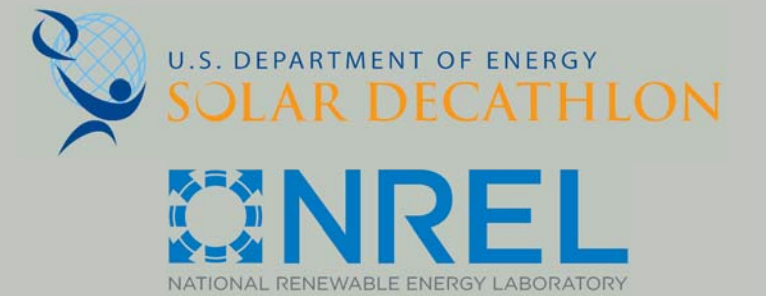
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DECATHLON

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CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

SET TABLE OF CONTENTS

Date 2012/8/1
Drawn by Author

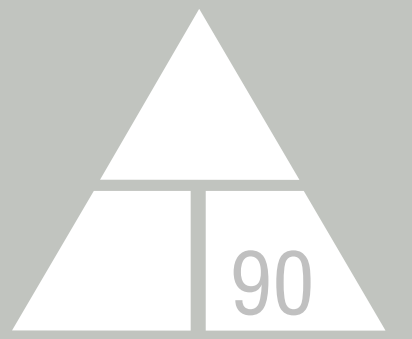
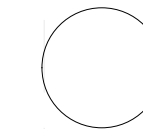
G-001

GENERAL SHEET NOTES

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G-201	SOLAR ENVELOPE ELEVATIONS
G-202	SOLAR ENVELOPE ELEVATIONS
G-101	FINISHED SQUARE FOOTAGE COMPLIANCE PLAN
G-603	SIGNAGE DETAILS

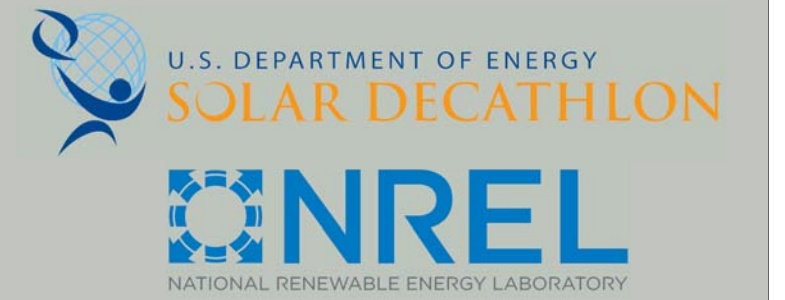
⊕	CENTERLINE
⊕	NORTH ARROW
	GRAPHIC SCALE

GENERAL SYMBOLS



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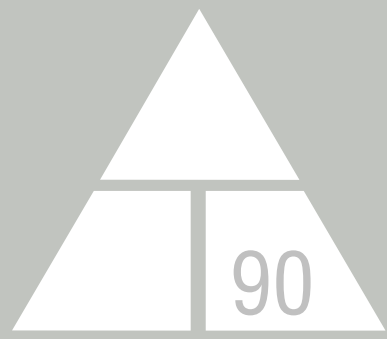
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SET GENERAL NOTES &
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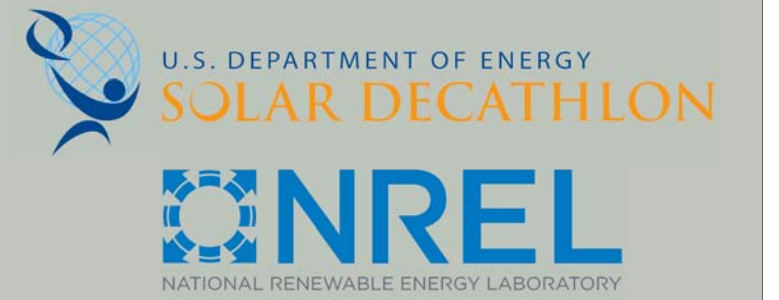
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G-002



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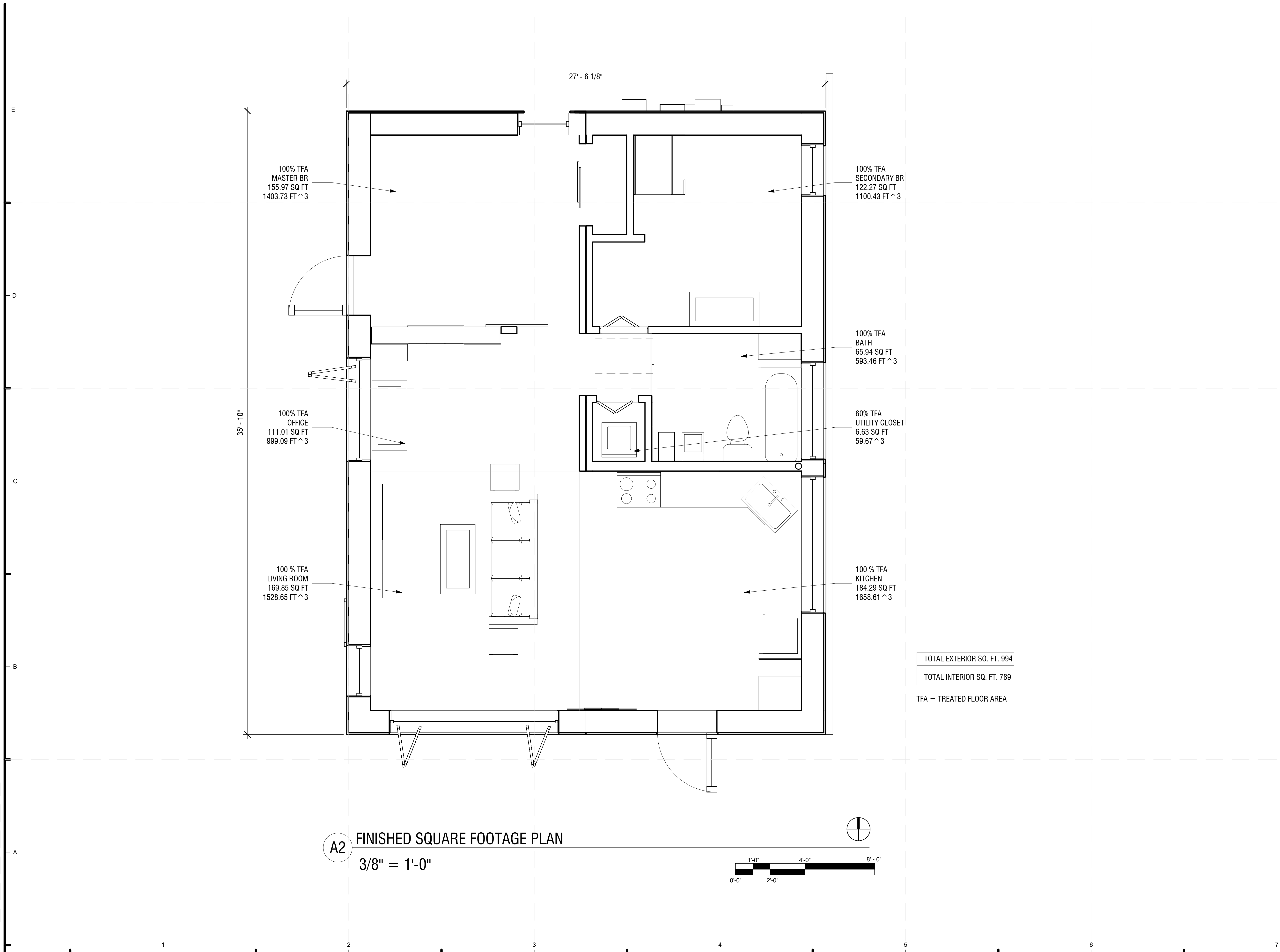
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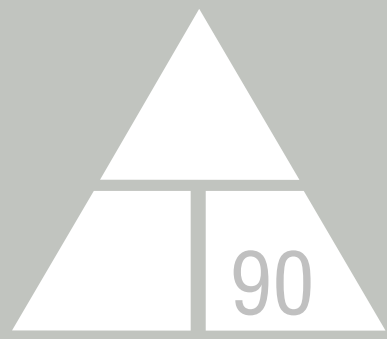
FINISHED SQUARE
FOOTAGE COMPLIANCE
PLAN

Date 2012/8/1
Drawn by Author

G-101

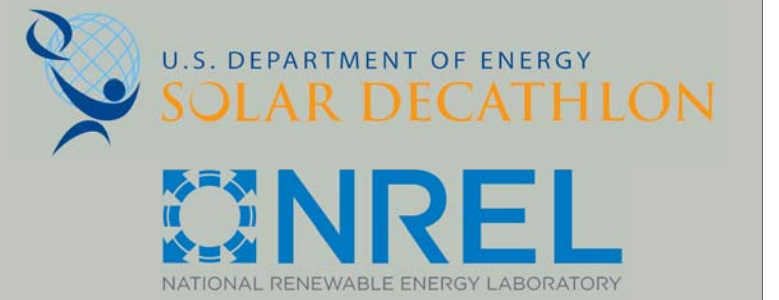
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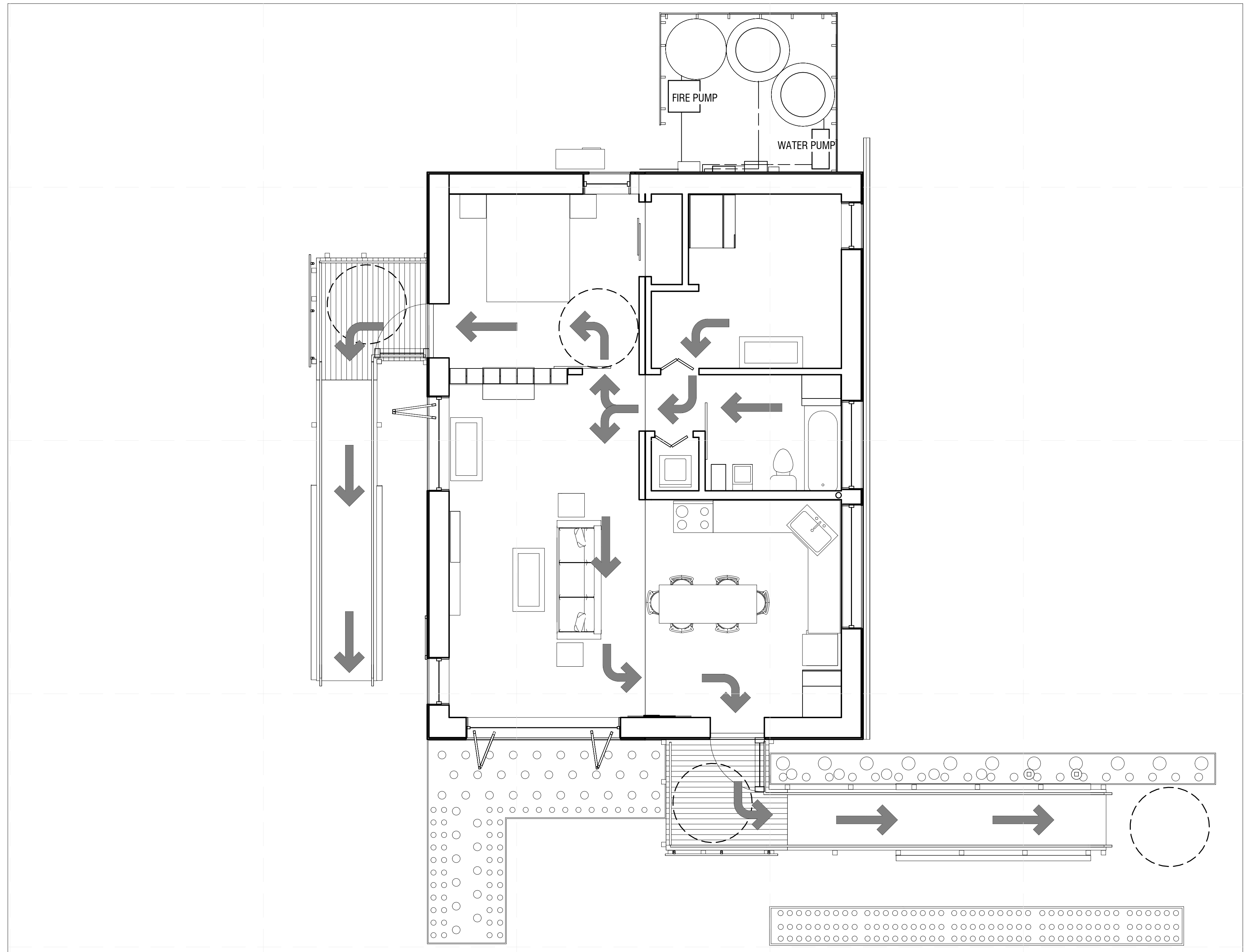
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EGRESS PLAN

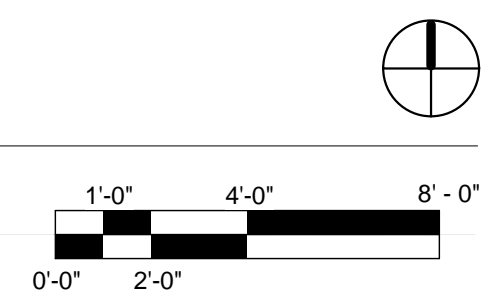
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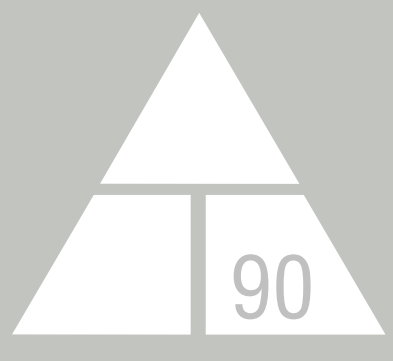


A1 EGRESS PLAN
1/4" = 1'-0"



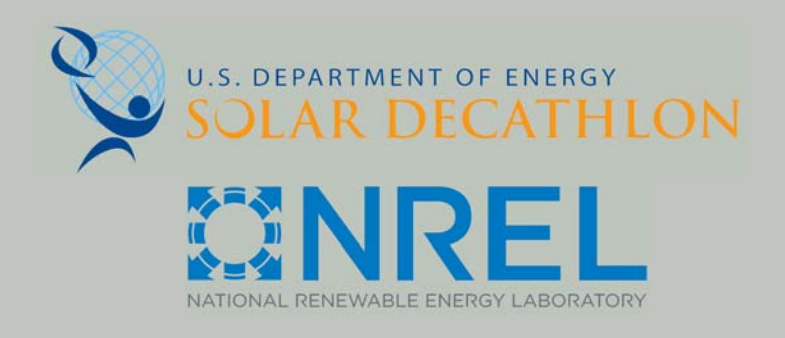
GENERAL SHEET NOTES

- ALL DOORS 32" CLEAR OPENING
- WATER TANKS AND HEAT PUMP OMITTED FOR CLARITY



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No.	Description	Date
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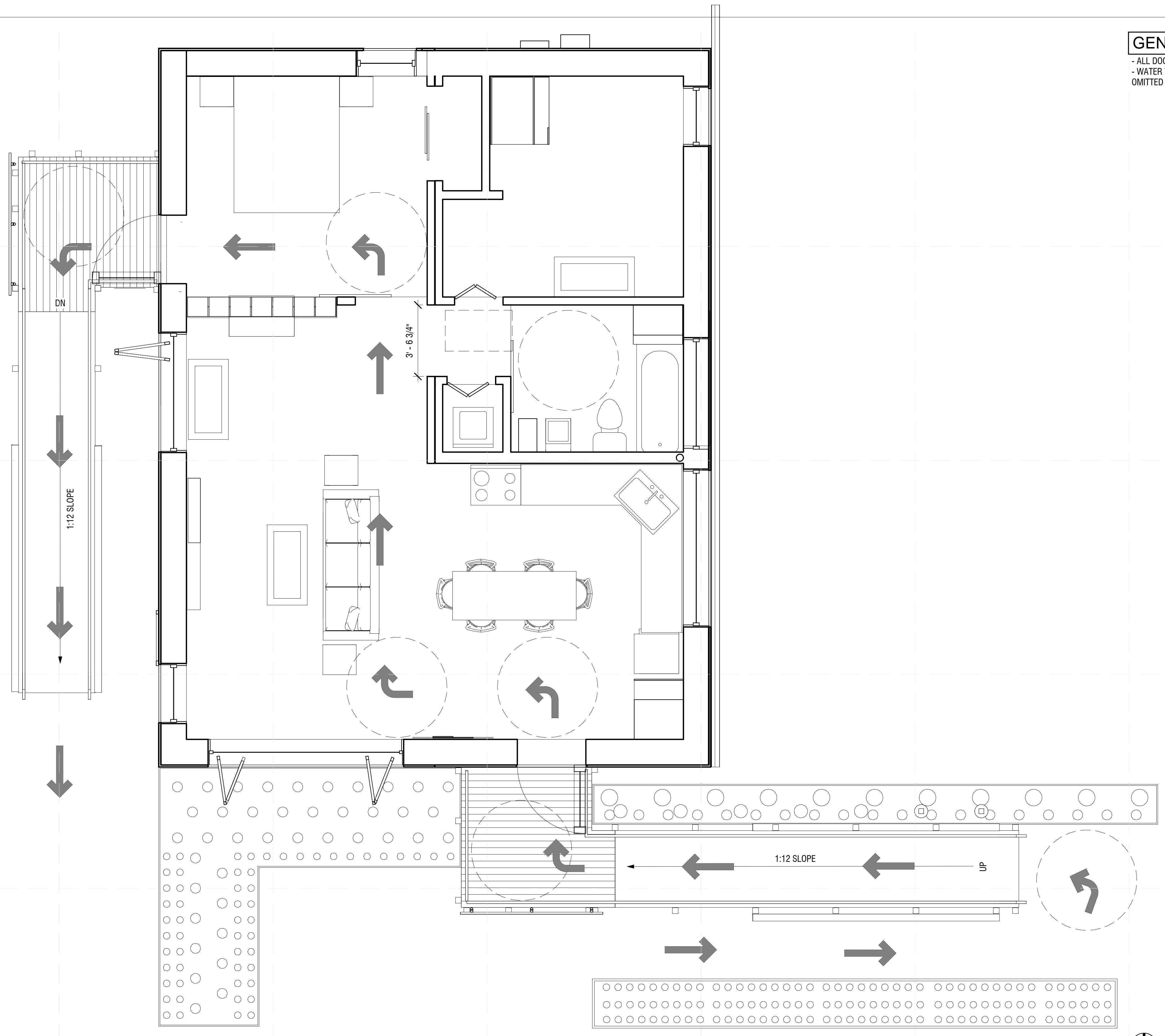
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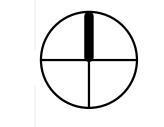
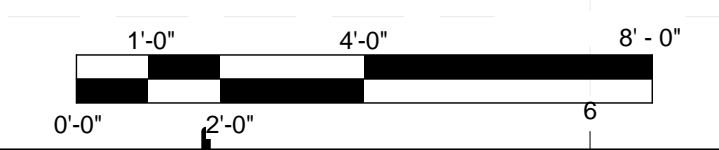
**ADA TOUR ROUTES
COMPLIANCE PLAN**

Date 2012/8/1
Drawn by Author

G-103

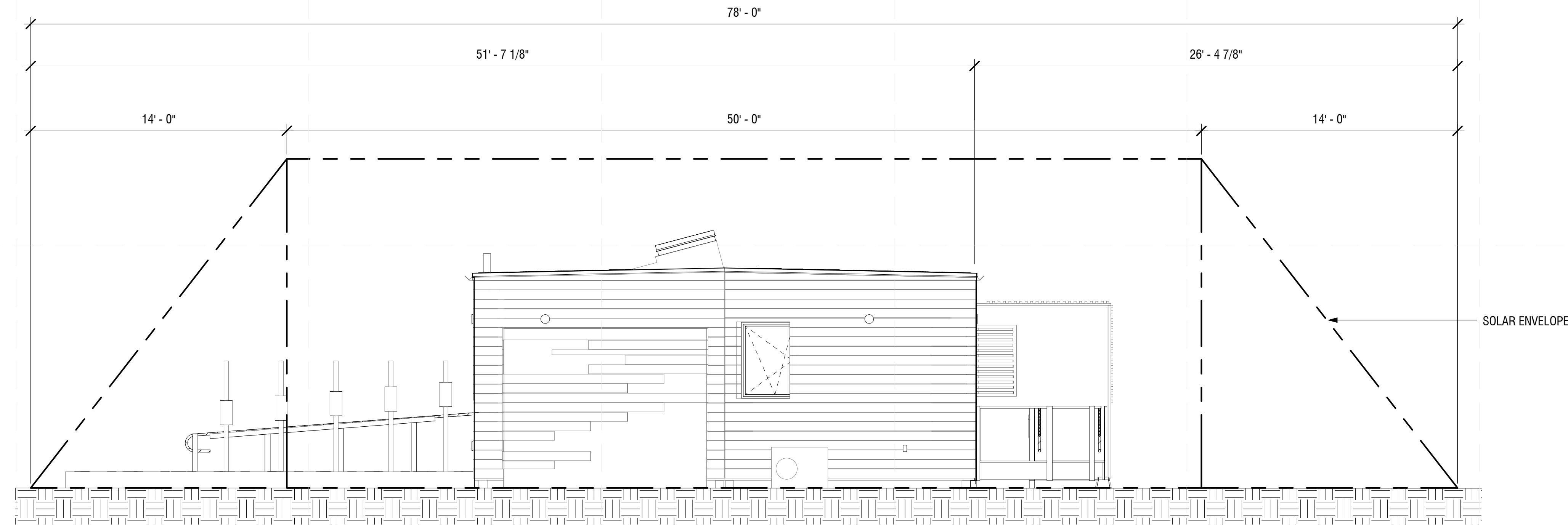


A1 ADA TOUR PLAN
3/8" = 1'-0"

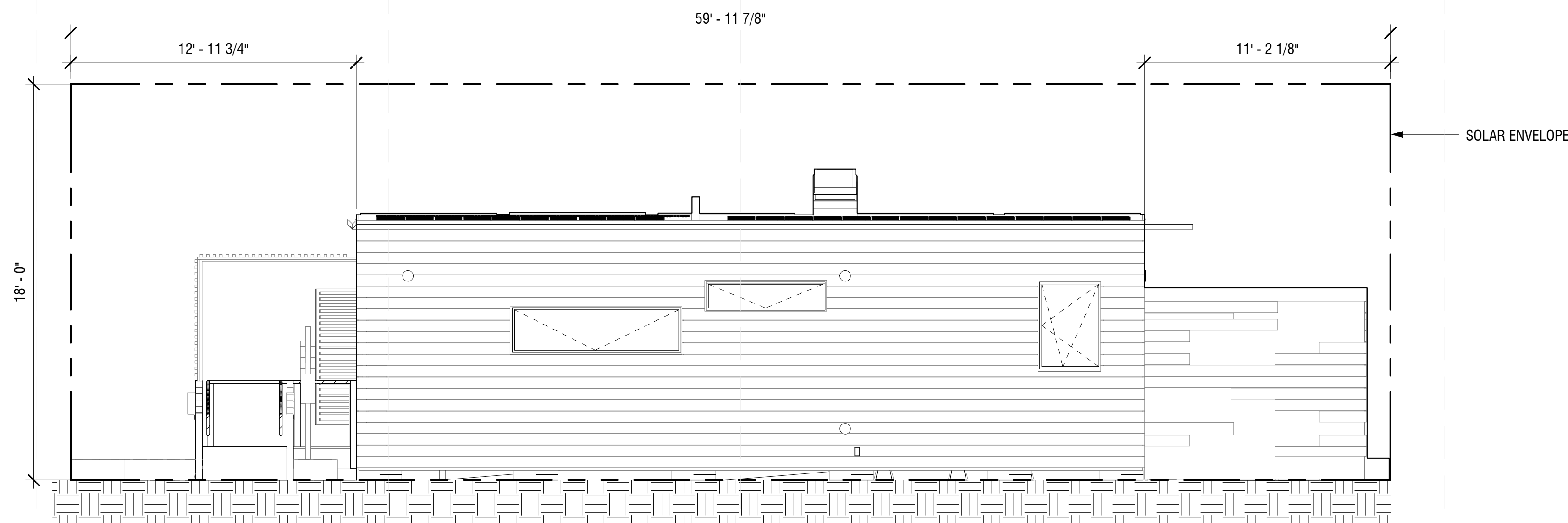
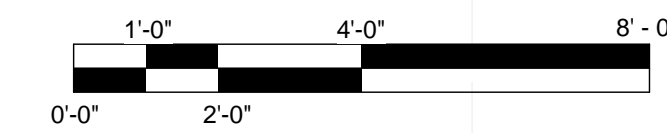


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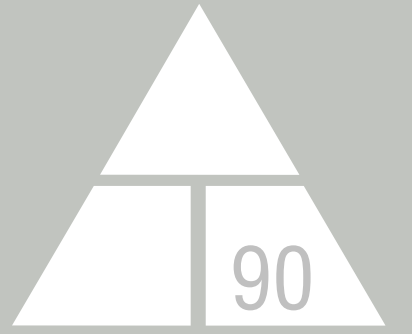
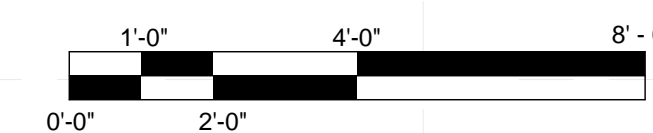
02 21 13.13: BOUNDARY AND SURVEY MARKERS



D1 NORTH SOLAR ENVELOPE ELEVATION
1/4" = 1'-0"



A1 EAST SOLAR ENVELOPE ELEVATION
1/4" = 1'-0"



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REVISIONS

No.	Description	Date
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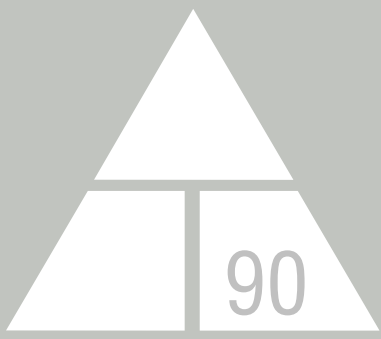
AS BUILT

DELTA T90

SOLAR ENVELOPE
ELEVATIONS

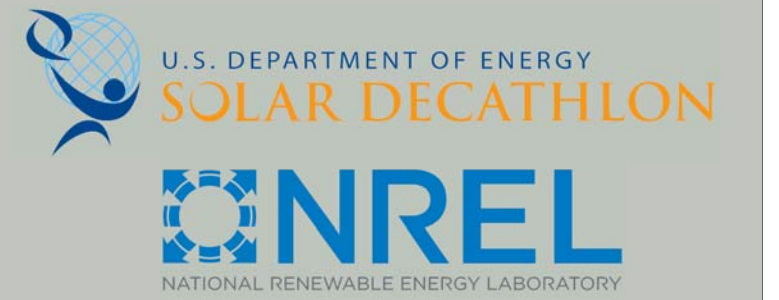
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G-201



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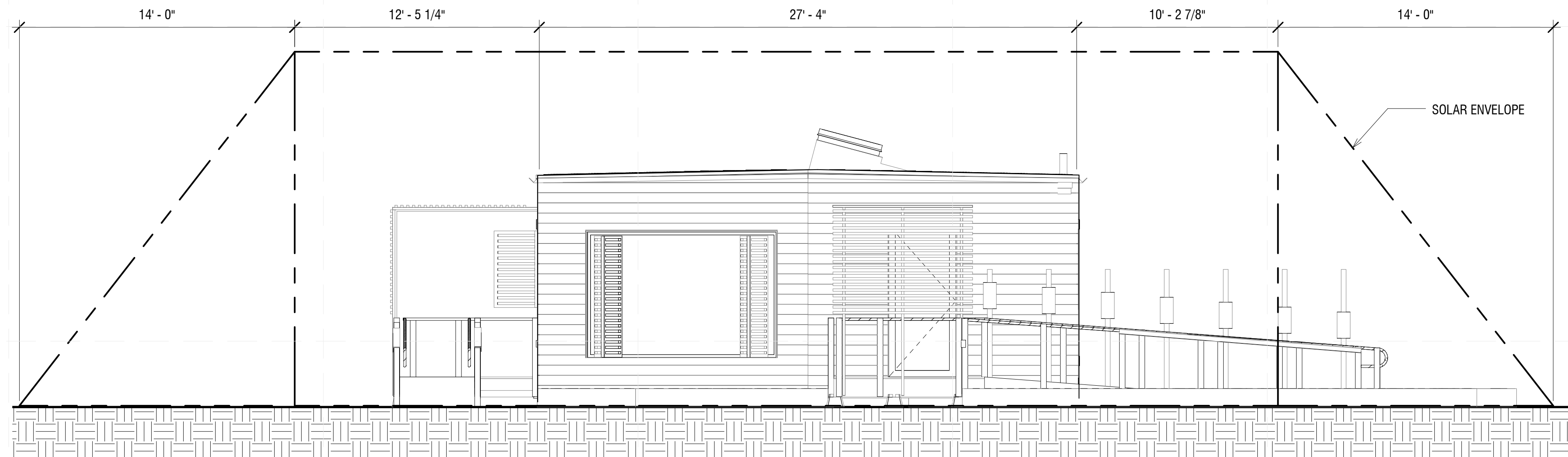
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SOLAR ENVELOPE
ELEVATIONS

Date 2012/8/1
Drawn by Author

G-202

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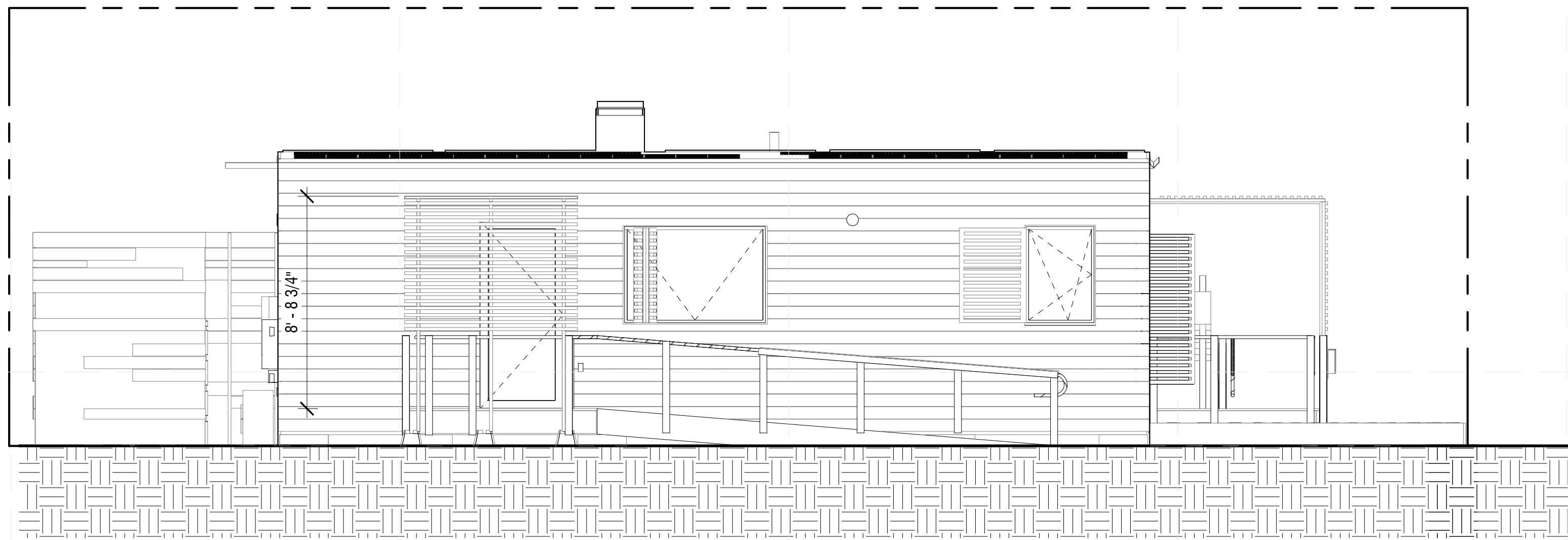
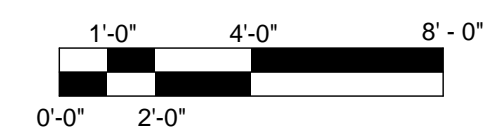


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02 21 13.13: BOUNDARY AND SURVEY MARKERS

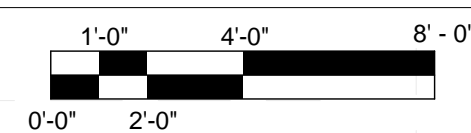
C1 SOUTH SOLAR ENVELOPE ELEVATION

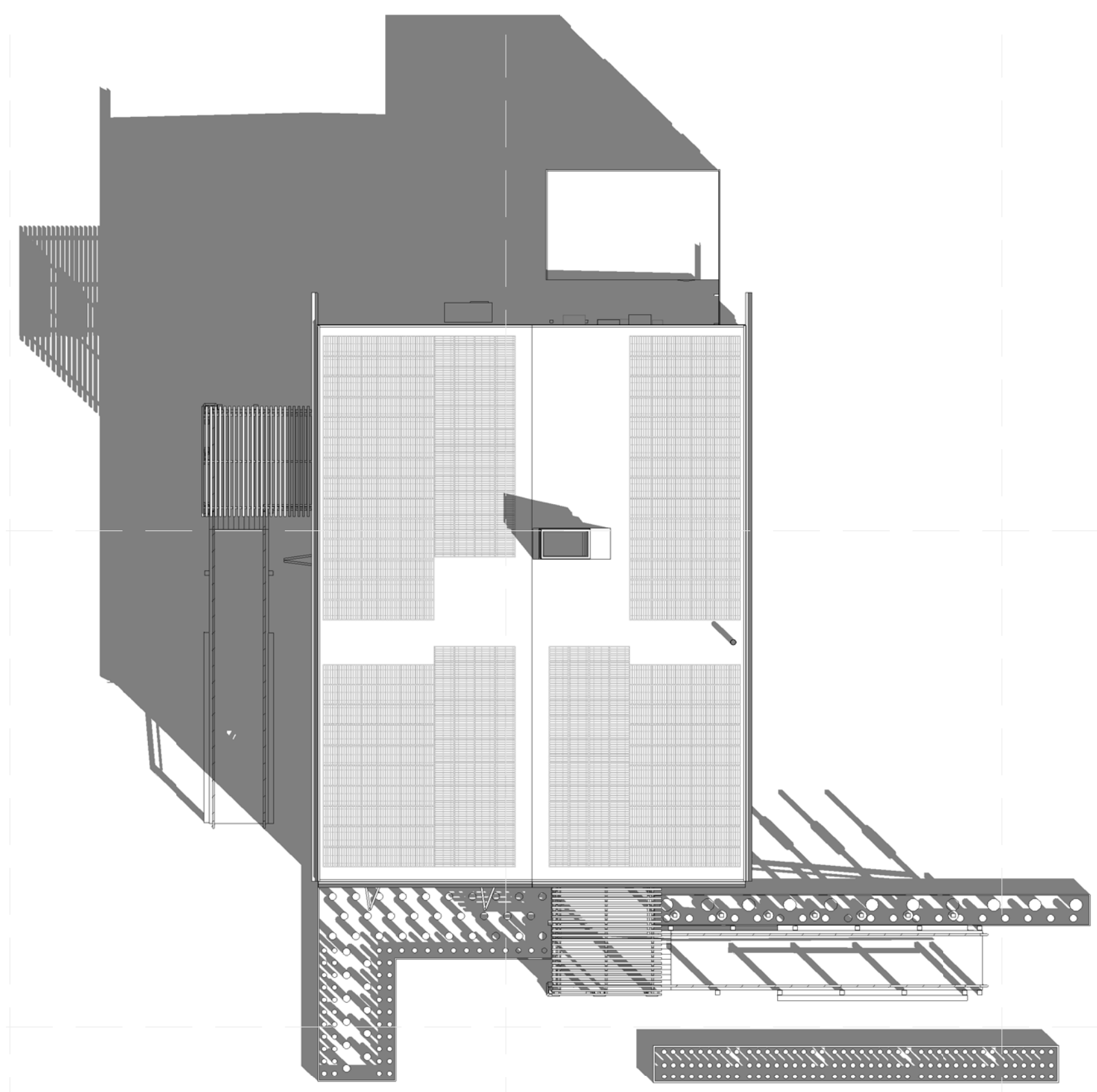
1/4" = 1'-0"



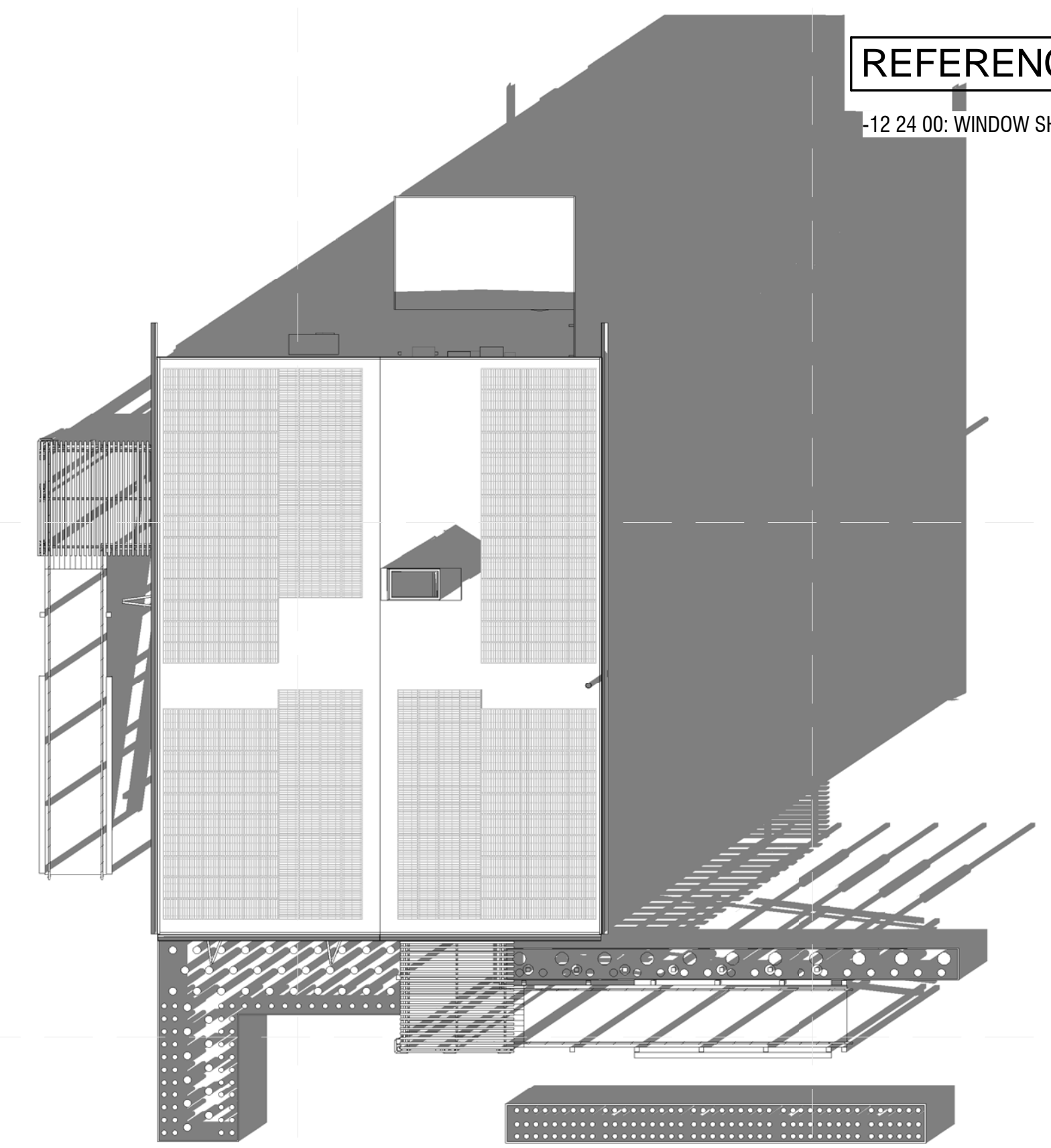
A1 WEST SOLAR ENVELOPE ELEVATION

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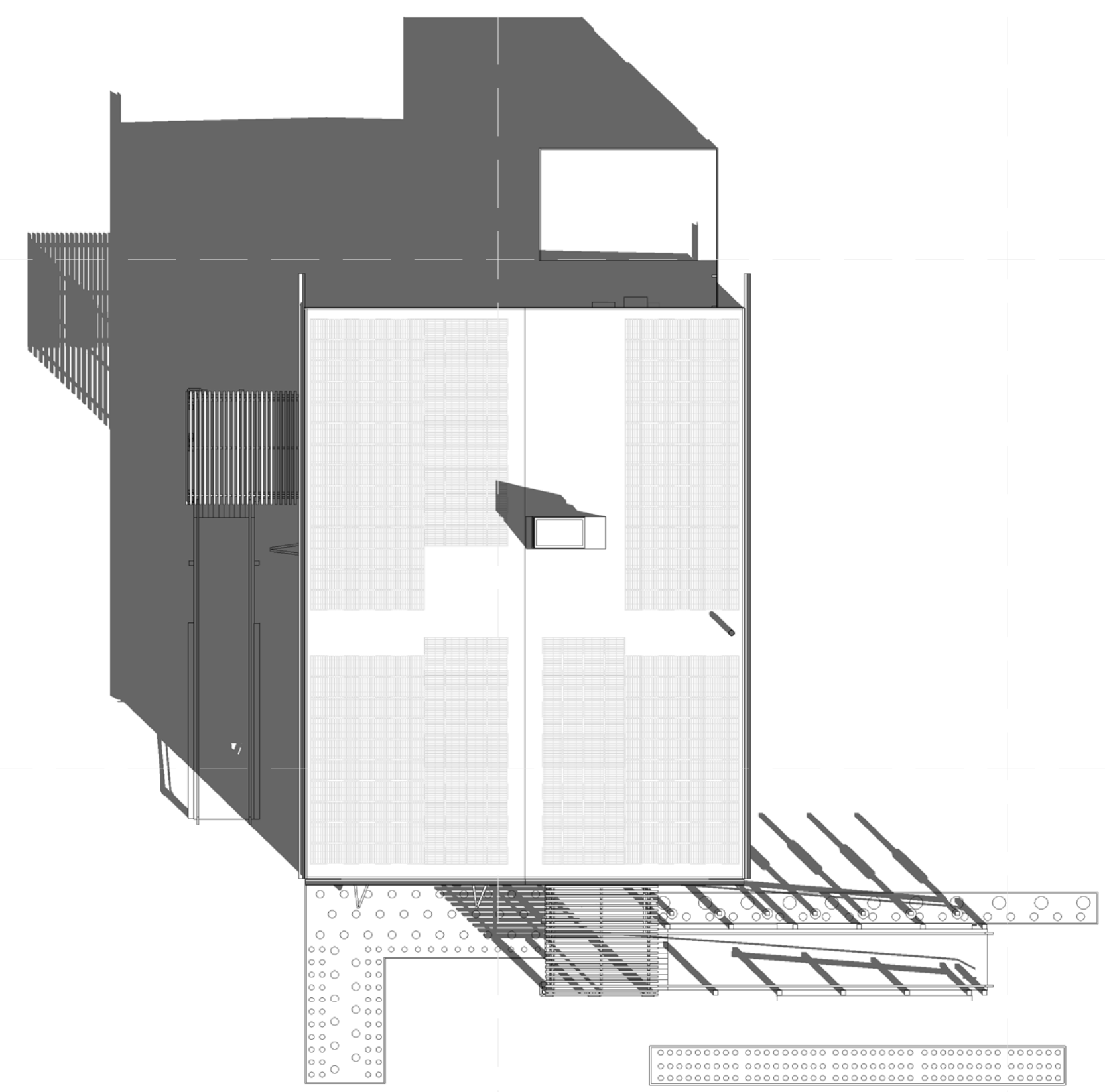




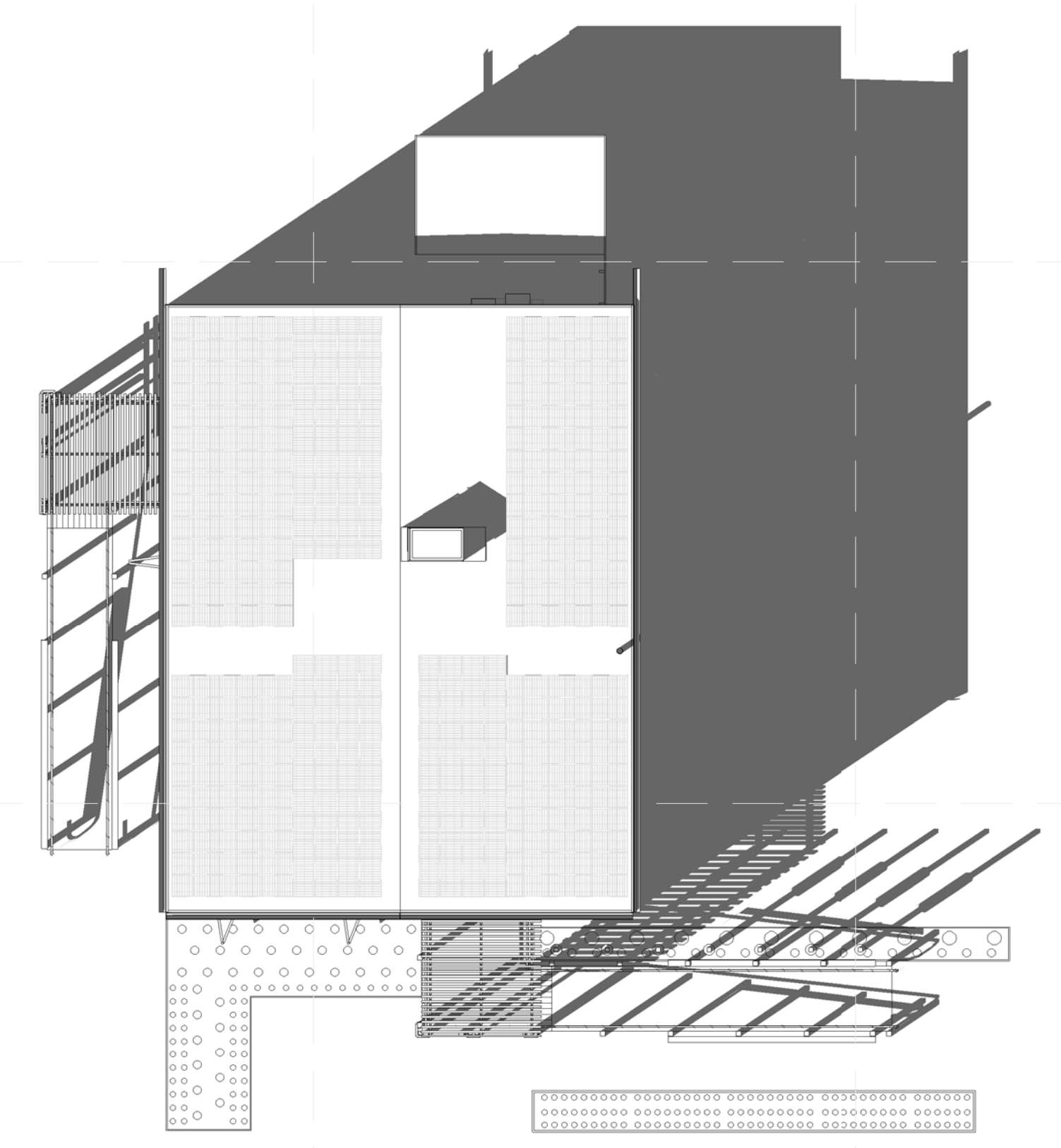
B1 SHADED AXON - IRVINE, CA - 9AM - EQUINOX



B4 SHADED AXON - IRVINE, CA - 3PM - EQUINOX



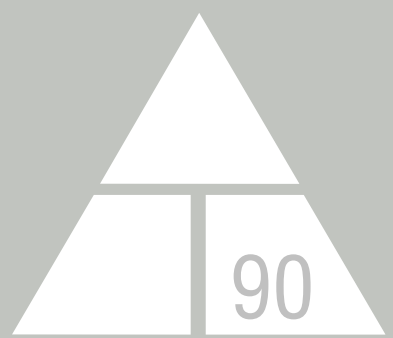
A1 SHADED PLAN 1
1/8" = 1'-0"



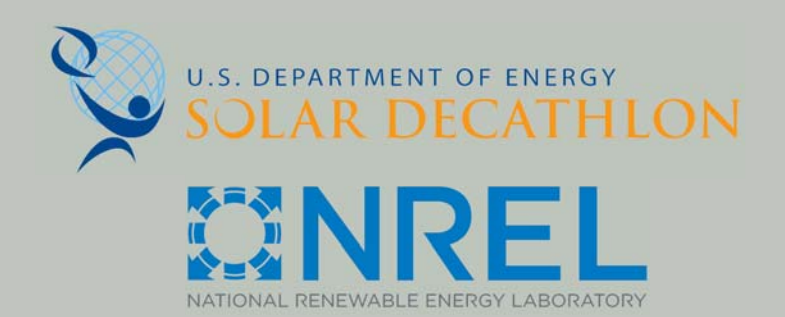
A4 SHADED PLAN 2
1/8" = 1'-0"

REFERENCE KEYNOTES

-12 24 00: WINDOW SHADES



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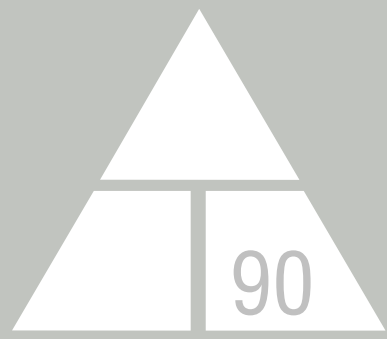
DELTA T90

GENERAL SHADING
DIAGRAMS

Date 2012/8/1
Drawn by Author

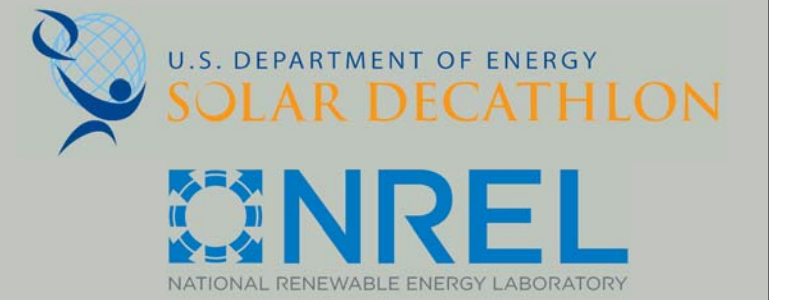
G-601

GENERAL SHEET NOTES



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1.	LABEL ADJUSTMENTS	4/1/13

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DELTA T90

SIGNAGE SCHEDULE

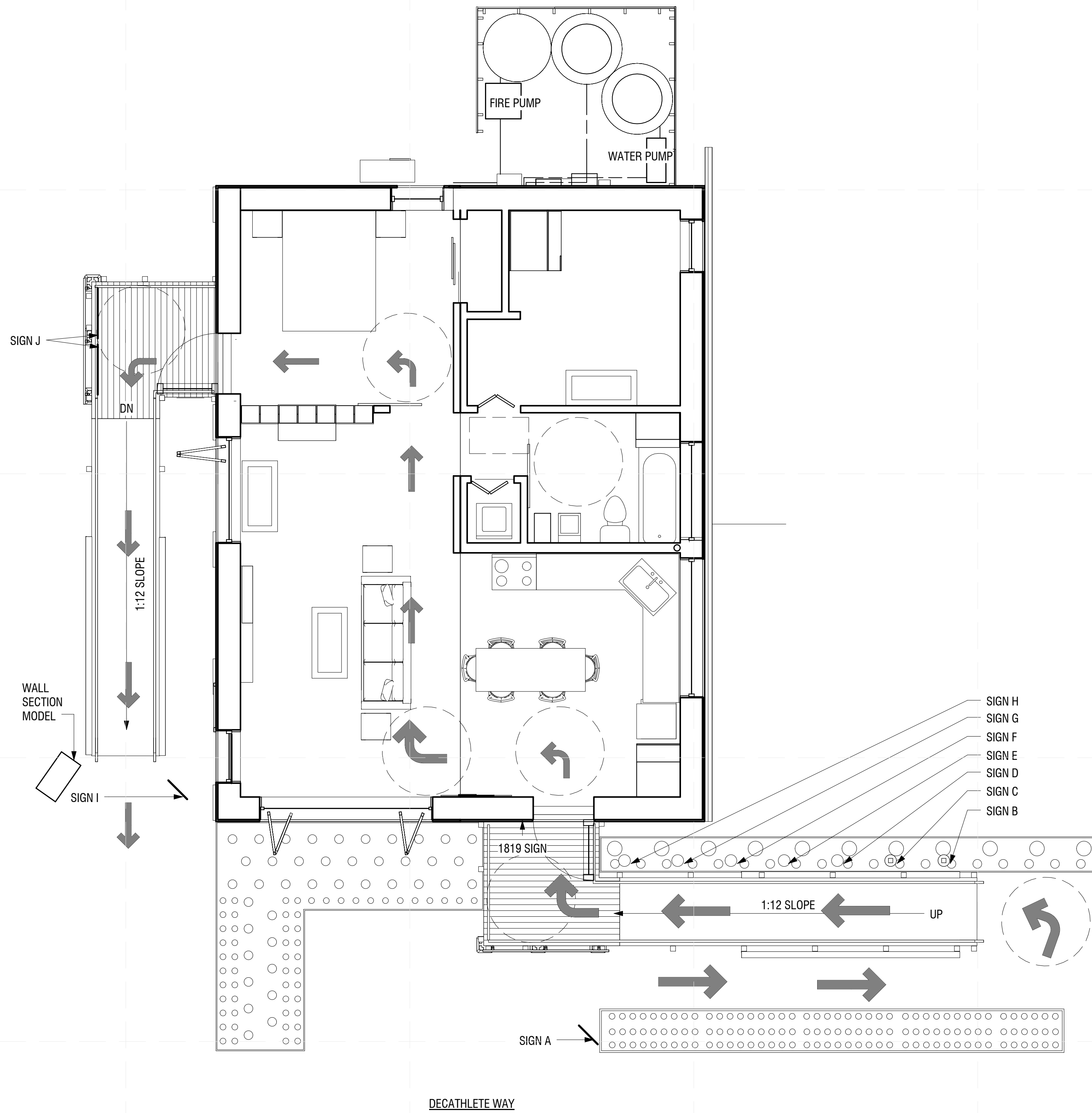
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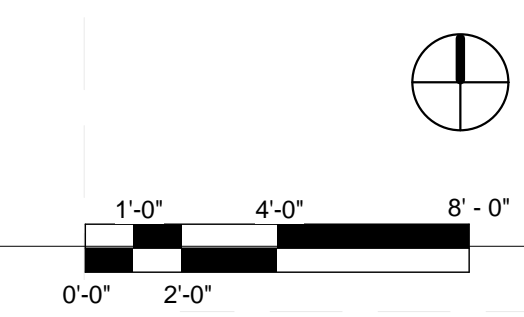
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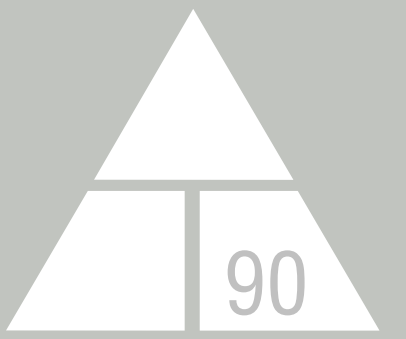
-10 18 00: INFORMATIONAL KIOSK



A1 SIGNAGE SCHEDULE PLAN
1/4" = 1'-0"

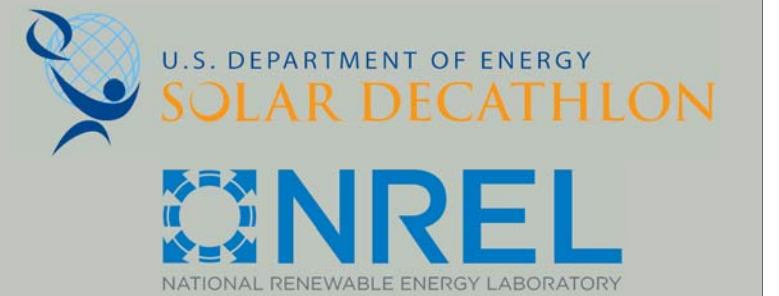


GENERAL SHEET NOTES



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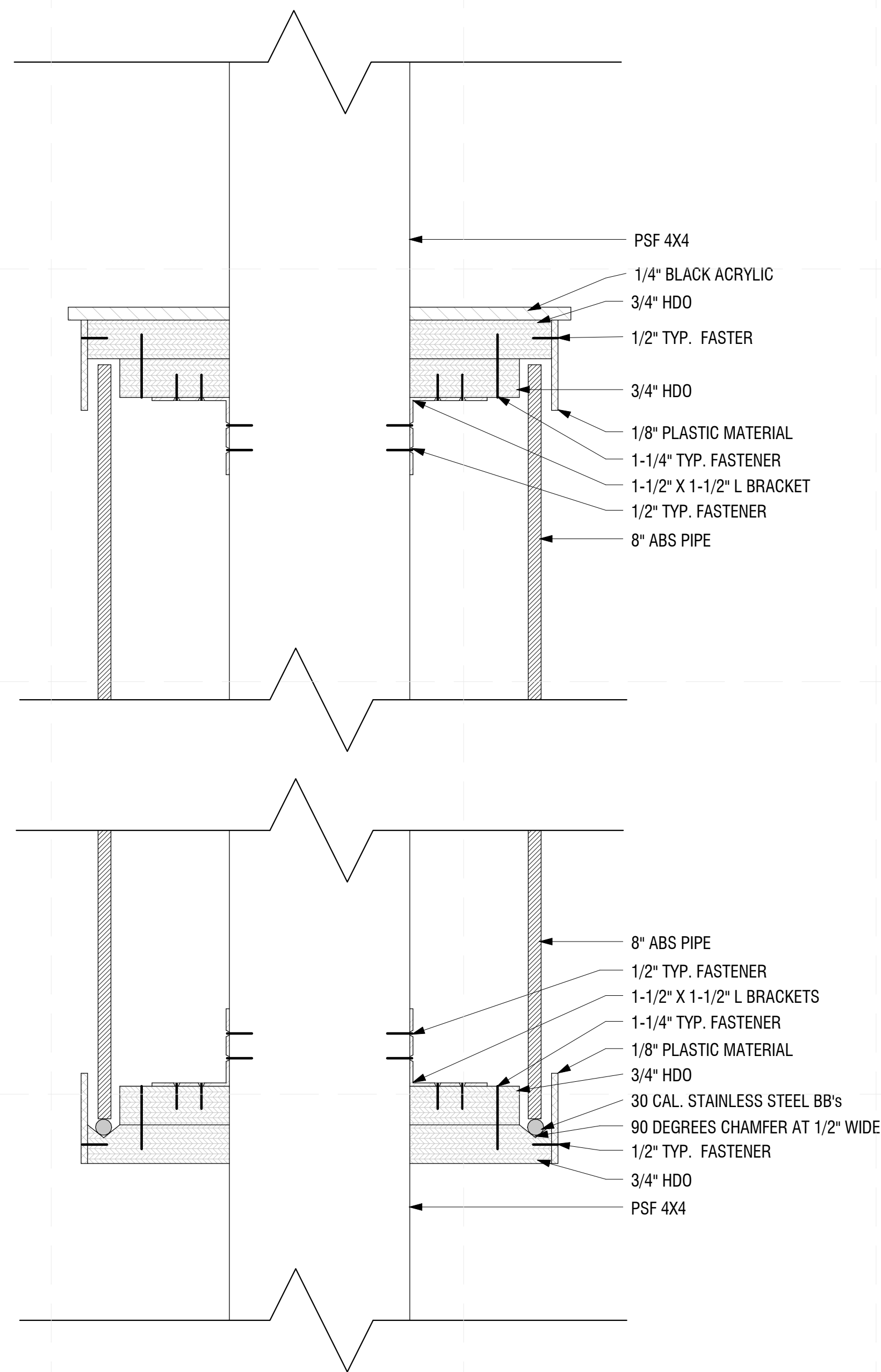
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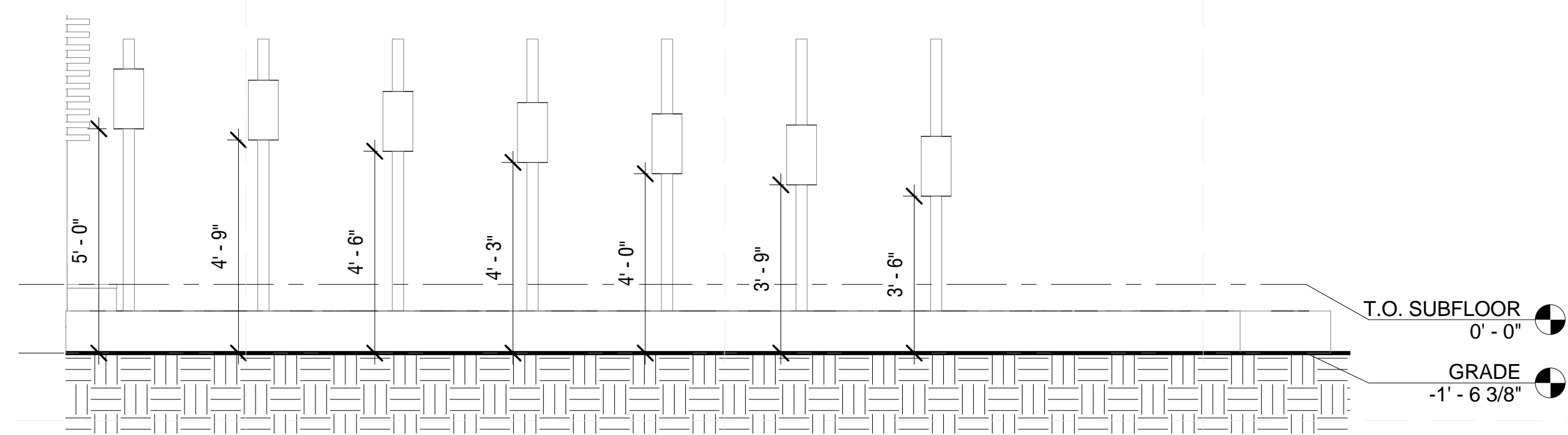
SIGNAGE DETAILS

Date 2012/8/1
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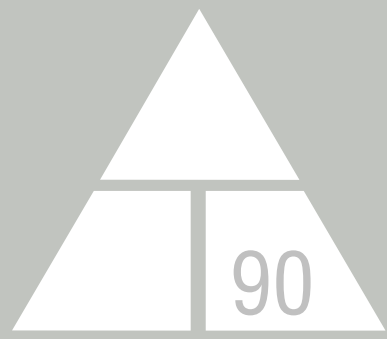
G-603



A1 TYP. KIOSK SECTION DETAIL
6" = 1'-0"
0'-0" 0'-1" 0'-2" 0'-4"

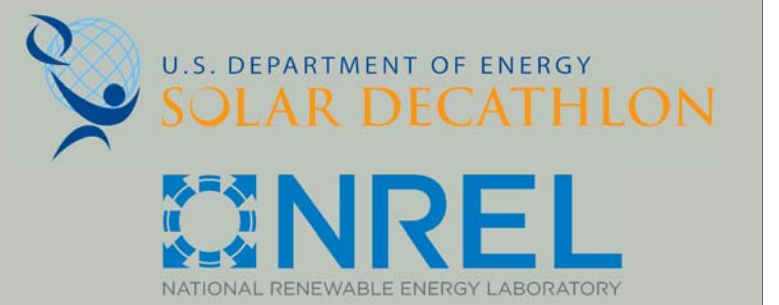


A4 KIOSK SOUTH ELEVATION
3/8" = 1'-0"
0'-0" 1'-0" 2'-0" 4'-0" 8'-0"



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1.	LABEL ADJUSTMENTS	4/1/13

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LIQUID CONTAINMENT
PLAN

Date 2012/8/1
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H-101

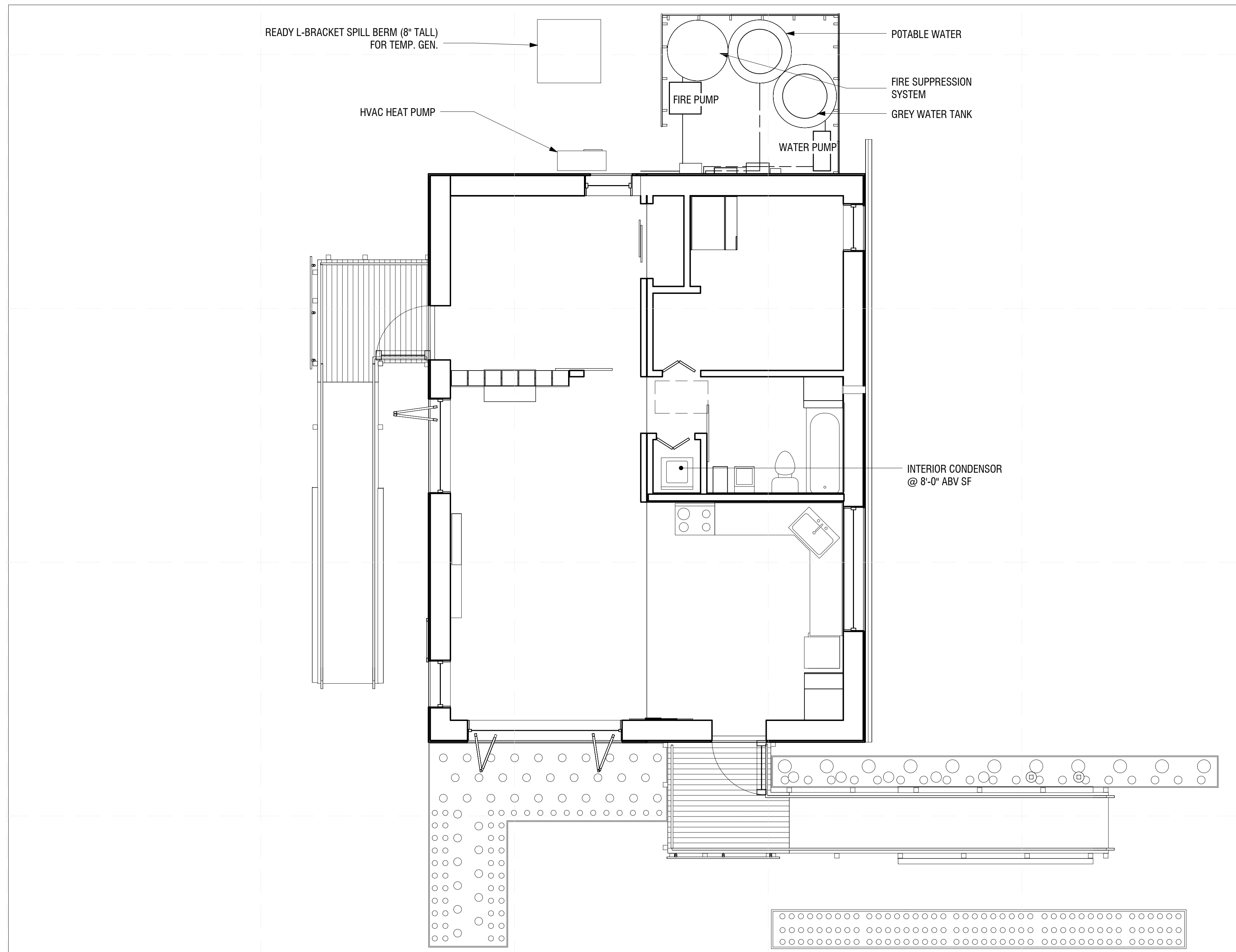
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GENERAL SHEET NOTES

-3' CLEARANCE FOR GENERATOR TRANSFER SWITCH
METER AND SERVICE DISCONNECT AND INVERTER

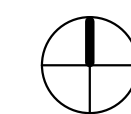
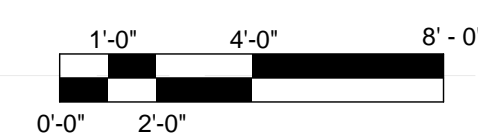
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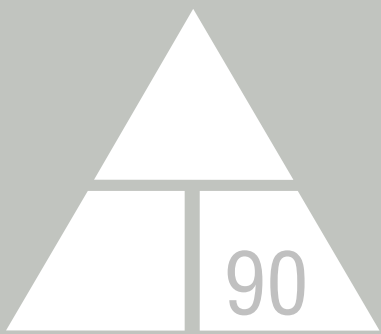
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-46 00 00: WATER AND WASTEWATER
EQUIPMENT
-DIVISION 21: FIRE SUPPRESSION
-02 21 13.13 BOUNDARY AND SURVEY MARKERS



A1 LIQUID CONTAINMENT PLAN

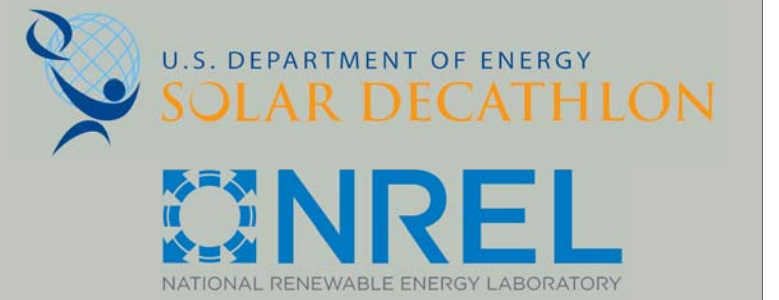
1/4" = 1'-0"





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DELTA T90

GENERAL NOTES & LIST

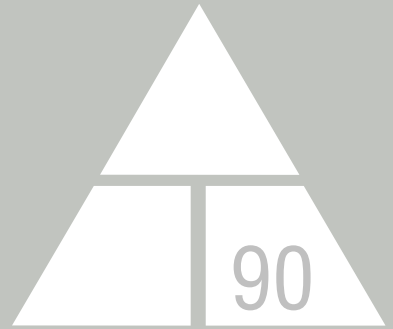
Date 2012/8/1
Drawn by Author

C-001

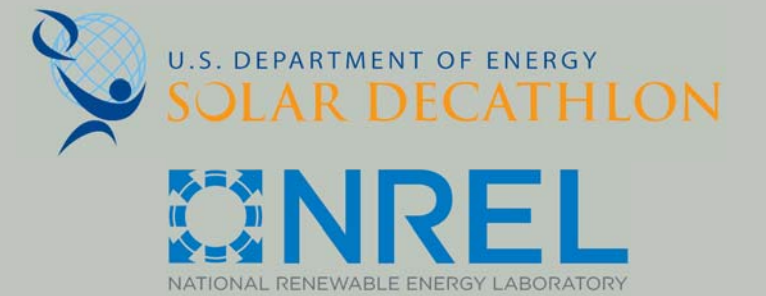
CIVIL SHEET LIST		<u>GENERAL NOTES:</u>
SHT NO	SHEET NAME	
C-001	GENERAL NOTES & LIST	
C-101	GROUND CONTACT PLAN	
C-103	SITE UTILITY PLAN	
C-104	SOLAR VILLAGE PLANS	
C-105	GREAT PARK LOCATION PLAN	

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WWW.SOLARDECATHLON.GOV

CONSULTANT: MATTHEW LUTZ
 CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date
1.	DRAWING ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

GROUND CONTACT PLAN

Date 12/8/1
 Drawn by Author

C-101

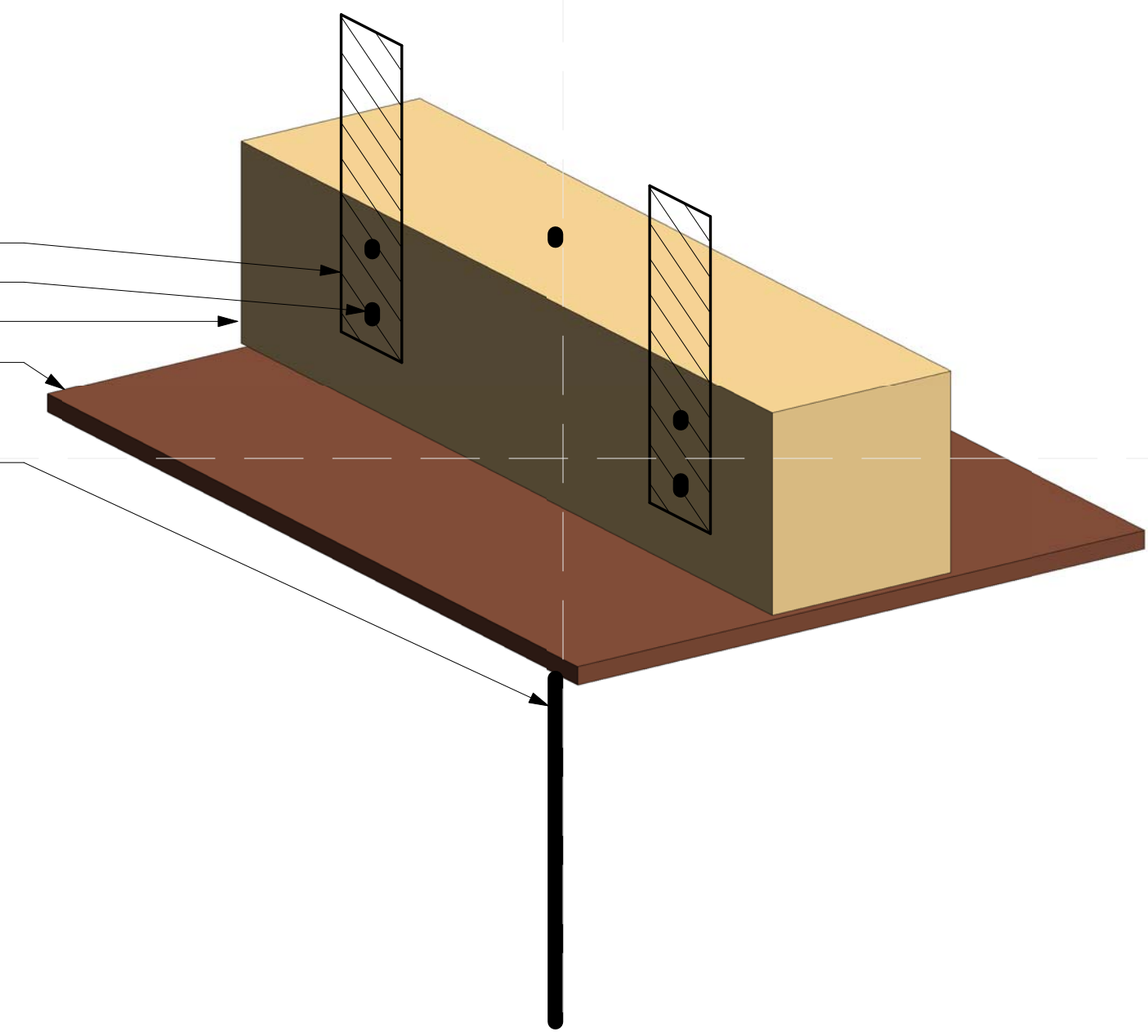
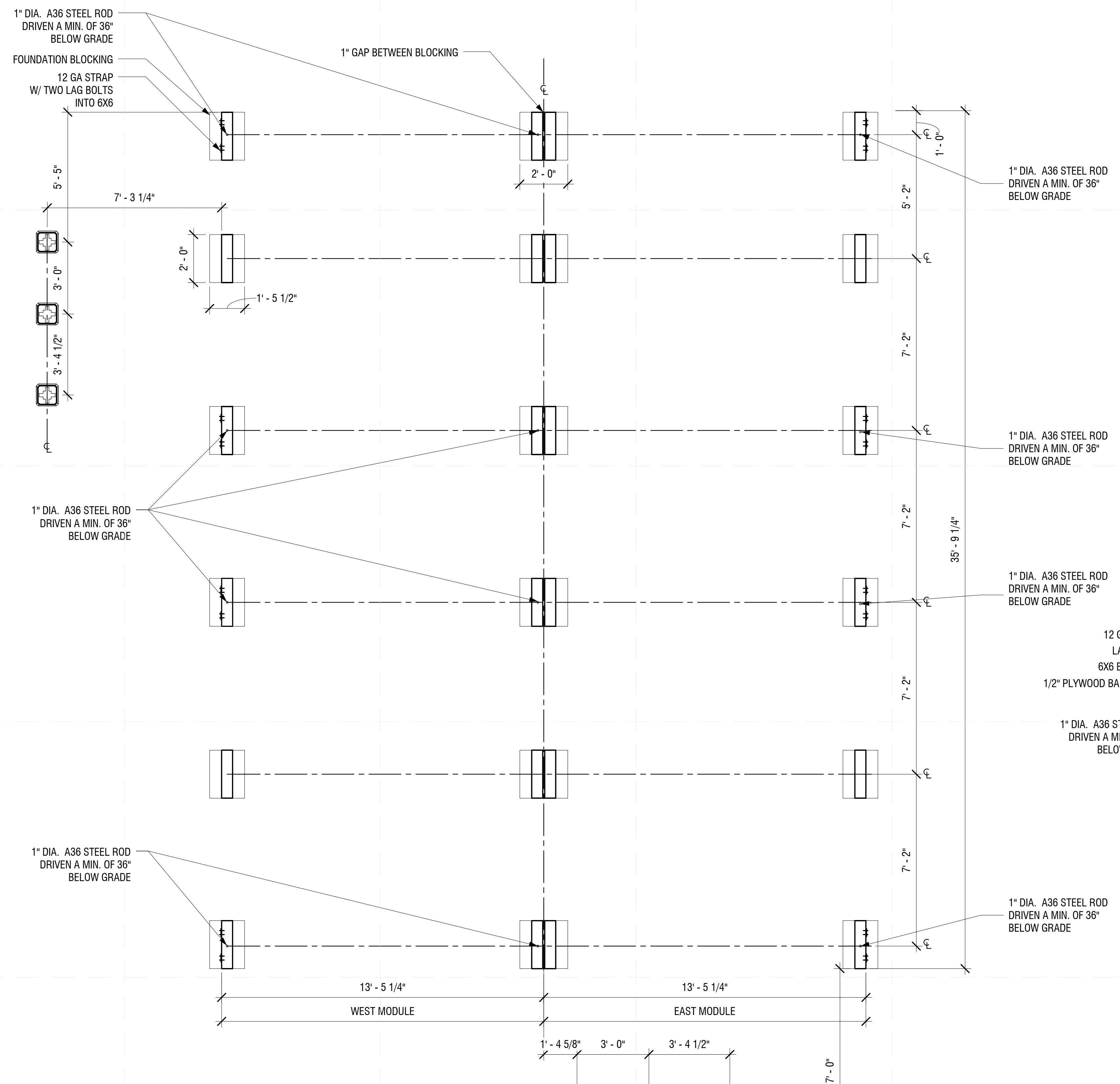
8/9/2013 11:44:21 PM

GENERAL SHEET NOTES

- FOUNDATION BLOCKING WILL BE LEVELED TO A TOLERANCE OF +/- 0-1/4"

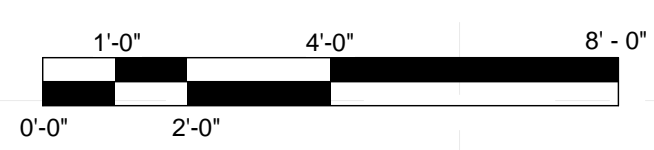
REFERENCE KEYNOTES

-06 15 13: WOOD DECKING AND FOUNDATION



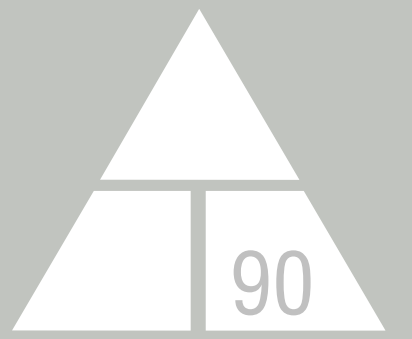
A5 FOUNDATION BLOCKING

A1 GROUND CONTACT PLAN
 3/8" = 1'-0"



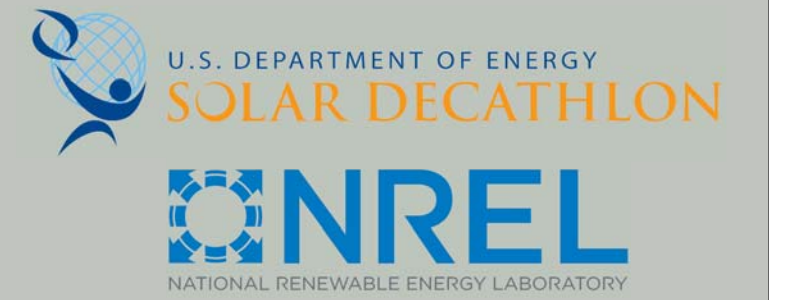
REFERENCE KEYNOTES

-46 00 00: WATER AND WASTEWATER EQUIPMENT
 -23 81 26: SPLIT-SYSTEM AIR CONDITIONERS



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No.	Description	Date
1.	DRAWING ADJUSTMENTS	4/1/13

AS BUILT

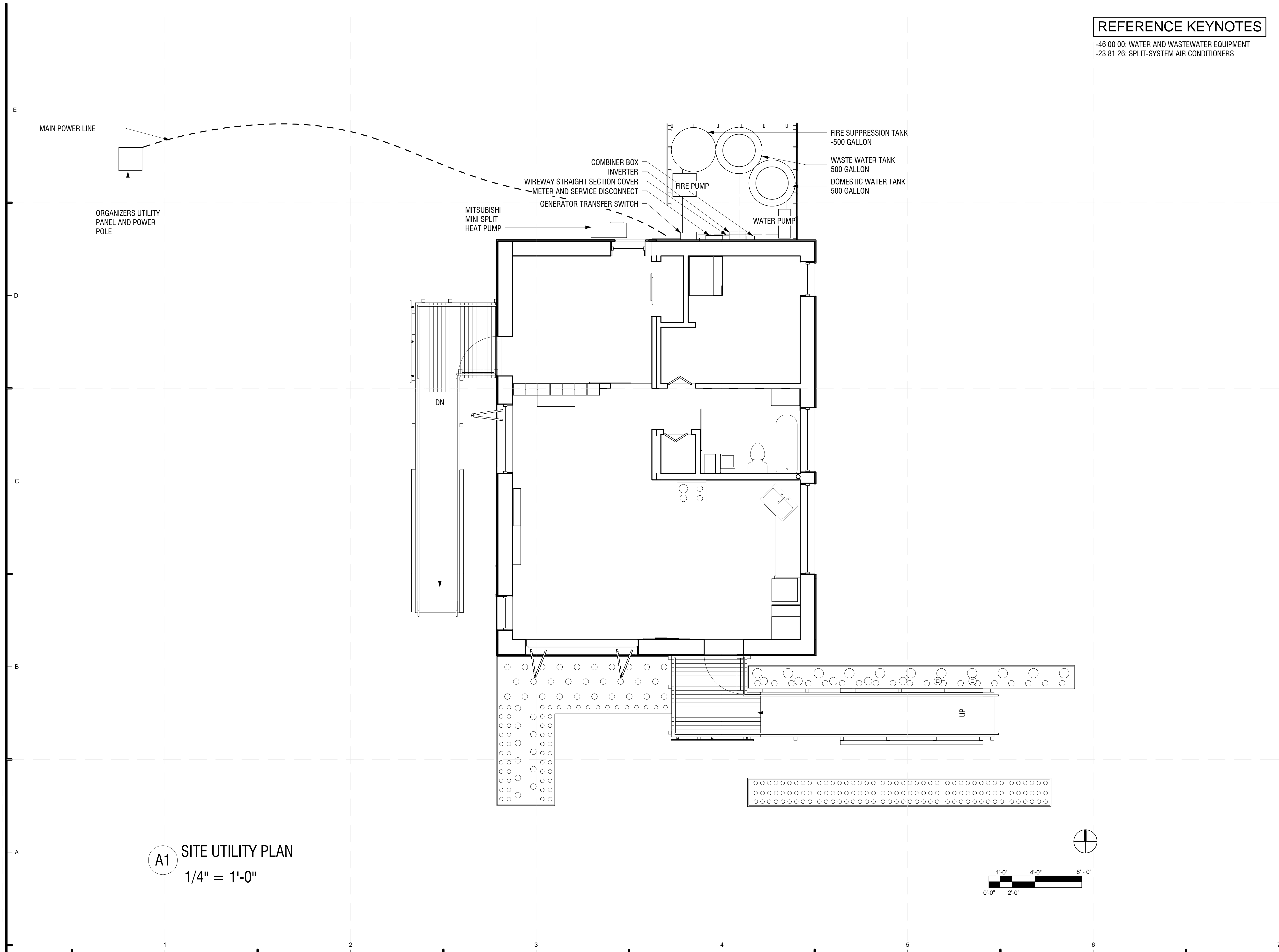
DELTA T90

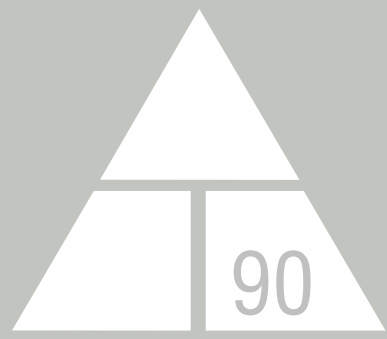
SITE UTILITY PLAN

Date 2012/8/1
 Drawn by Author

C-103

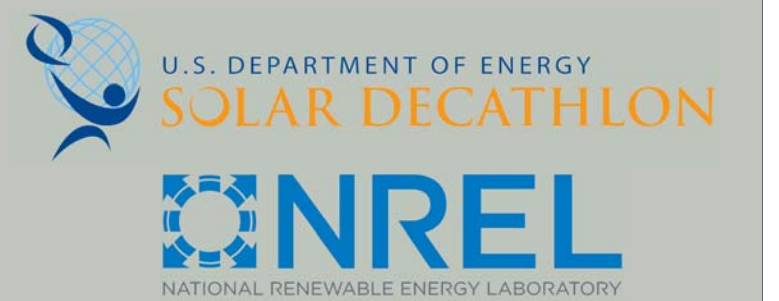
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No.	Description	Date
1.	SITE LABELING ADJUSTMENT	4/1/13

AS BUILT

DELTA T90

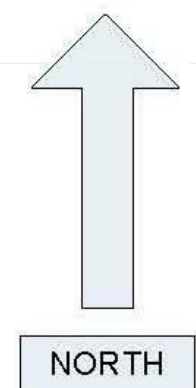
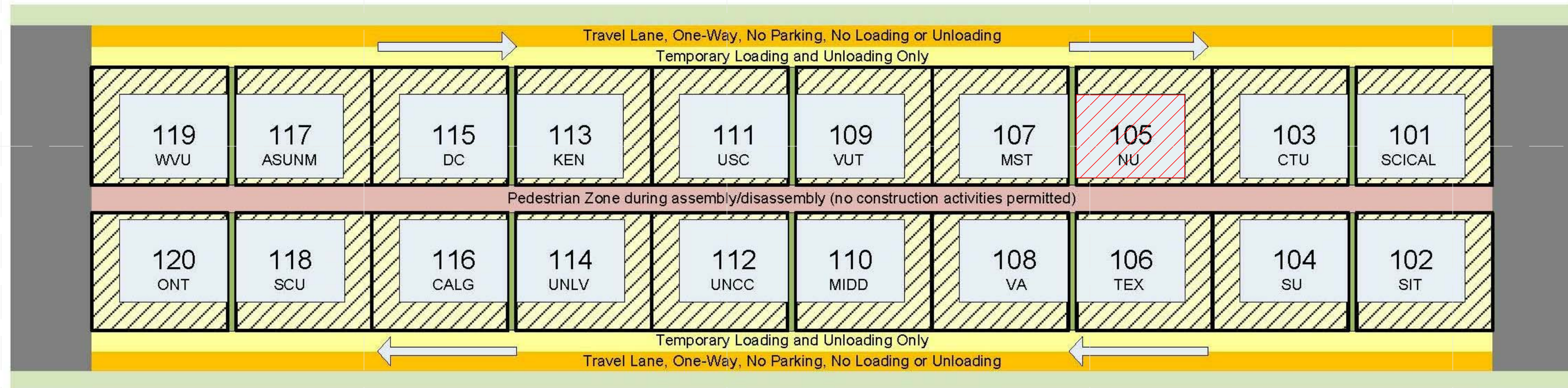
SOLAR VILLAGE PLANS

Date 2012/8/1
Drawn by Author

C-104

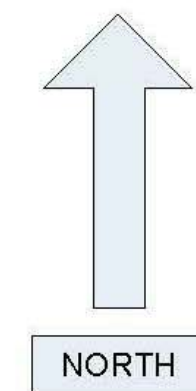
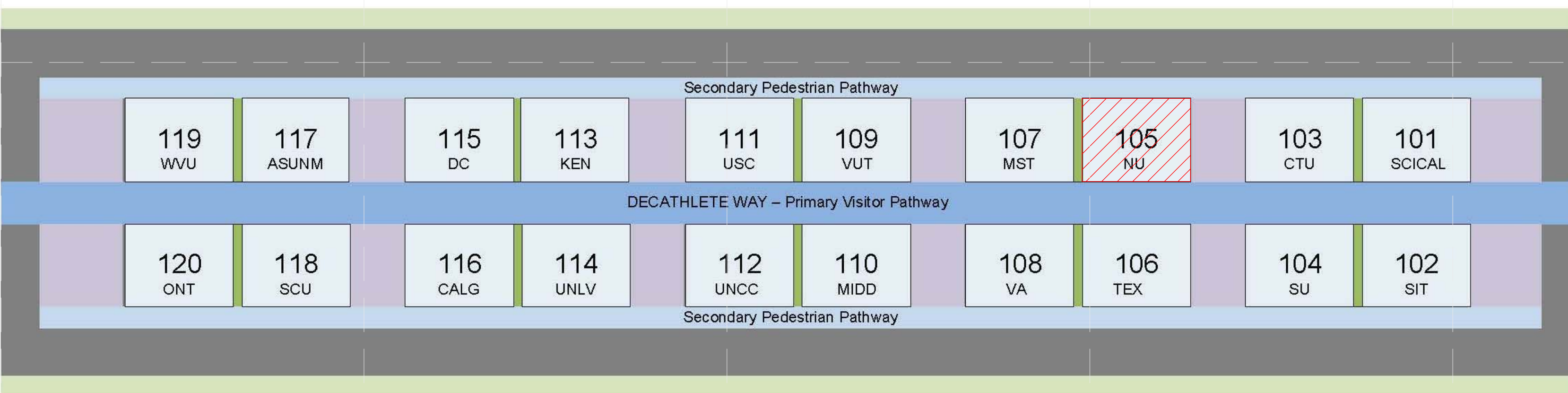
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ASSEMBLY AND DISASSEMBLY DIAGRAM



- Solar Envelope
- Team Construction Area
- Vehicle Temporary Loading and Unloading
- Construction Vehicle Travel Lane
- Non-construction Pedestrian Zone
- Organizer Utility Space
- Existing Pavement
- Grass

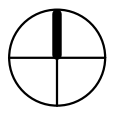
PUBLIC EXHIBIT DIAGRAM



- Solar Envelope
- Organizer Utility Space
- Decathlete Way
- Existing Pavement
- Grass
- Public Exhibit Space
- Secondary Pedestrian Pathway

C1 GENERAL MAP

ASSEMBLY & DISASSEMBLY DIAGRAM, AND PUBLIC EXHIBIT DIAGRAM TAKEN FROM SD2013 YAHOO GROUPS VIA FILES VIA RULES FOLDER VIA LOT SELECTION FOLDER VIA SD2013_LOT_SELECTION_DIAGRAM_FINAL.PDF
http://f1.grp.yahooofs.com/v1/sJm_UL7bMkVR86hsbpYqyFnmXW80AbxMhcoYrmlcK3kCERJNYfnxnsorps7K8RAV6mAPW9Nm_oYQqYSIhz0_IsP7U1AQ5cU/Rules/Lot%20Selection/SD2013_Lot_Selection_Diagram_Final.pdf



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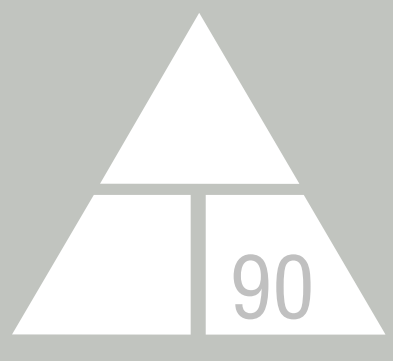
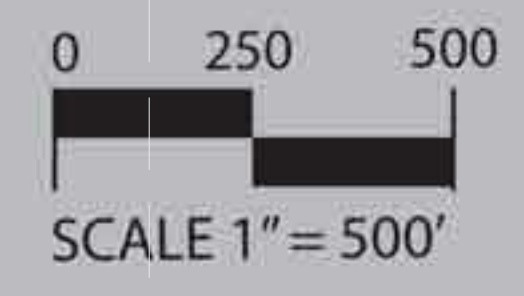
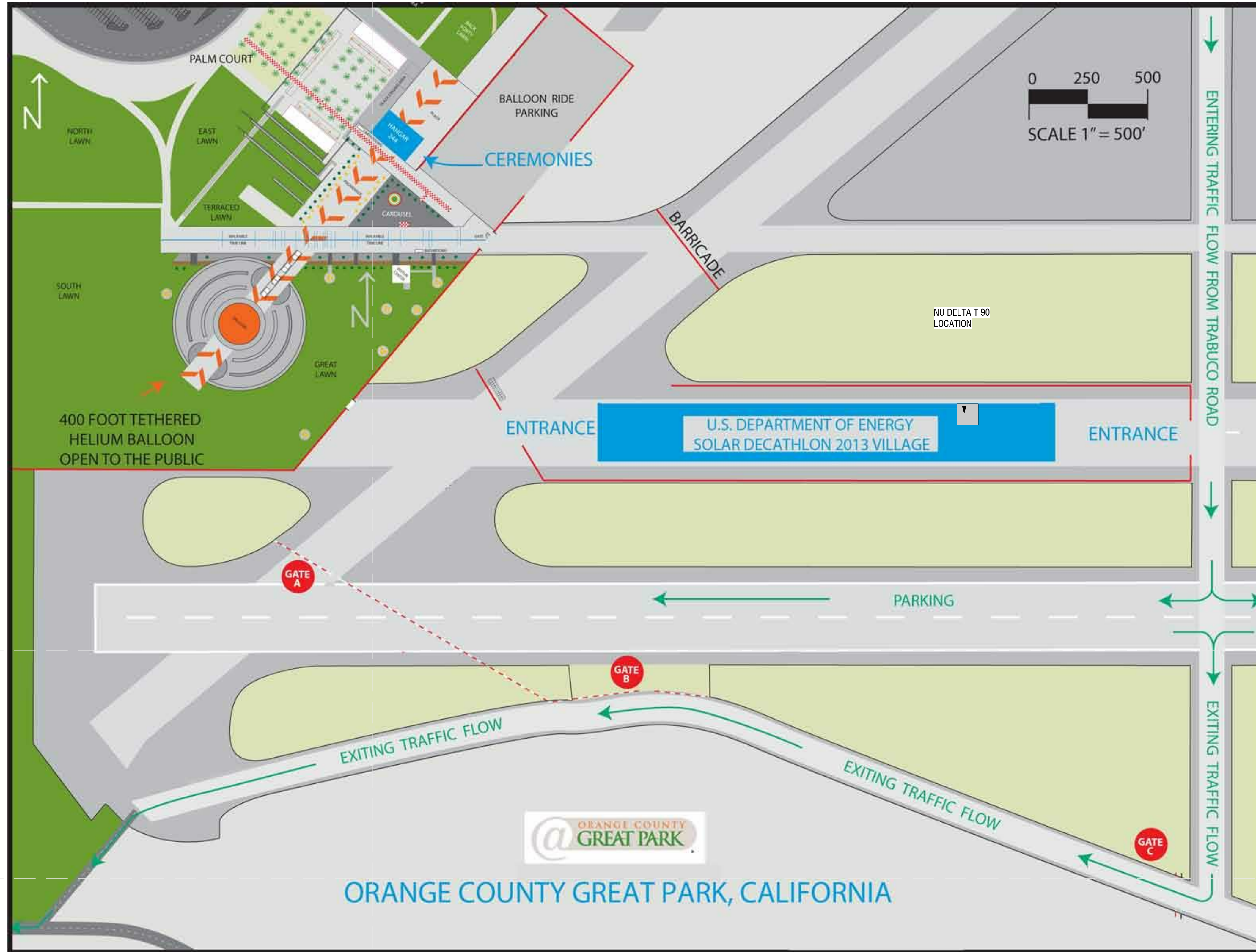
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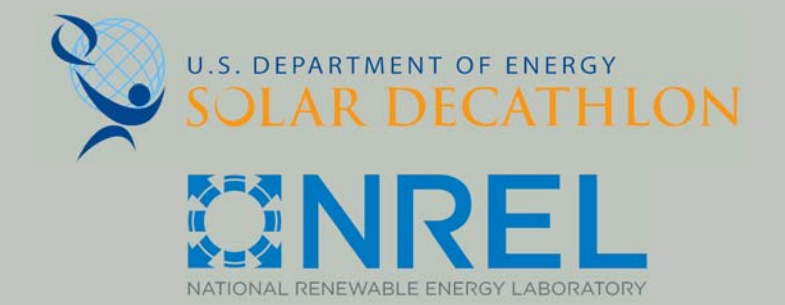
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REFERENCE KEYNOTES

- 01 14 00: WORK RESTRICTIONS
- 02 21 13: SITE SURVEYS
- 01 14 00: WORK RESTRICTIONS



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REVISIONS

No.	Description	Date

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DELTA T90

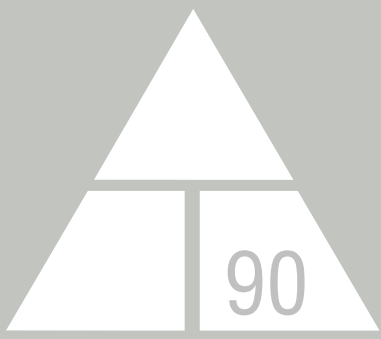
GREAT PARK LOCATION
PLAN

Date 2012/8/1
Drawn by Author

C-105

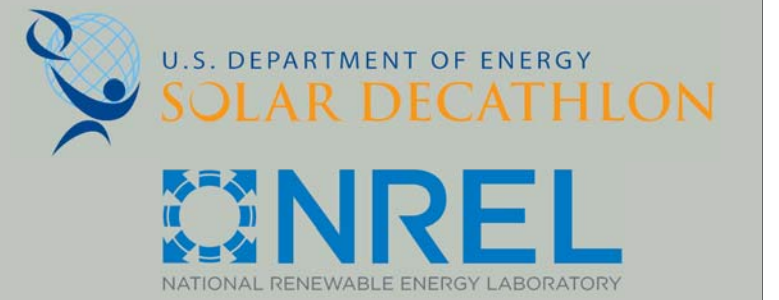
A1 SITE MAP

ORANGE COUNTY GREAT PARK SITE MAP TAKEN FROM SD2013 YAHOO GROUPS VIA FILES VIA RULES FOLDER VIA LOT SELECTION FOLDER VIA SD2013_OGCP_MAP_V2.PDF
http://f1.grp.yahoofs.com/v1/sjm_UMswOpRR86hsXxJfJaoRur6DG0iWlhadPucHPriShj3pNLOzyBlpT9xDg8Nmtz0gDcR5K5F746KQV8VACW0J_rSIU/Rules/Lot%20Selection/SD2013_OGCP_map_v2.pdf



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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

GENERAL NOTES & LIST

Date 2012/8/1
Drawn by Author

L-001

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LANDSCAPE SHEET LIST

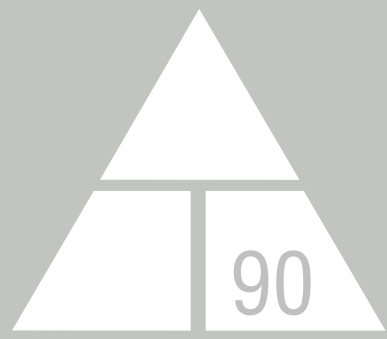
SHT NO	SHEET NAME
L-001	GENERAL NOTES & LIST
L-101	LANDSCAPE & PLANTING SITE PLAN
L-103	OUTDOOR LIGHTING PLAN
L-104	18" GRADE CHANGE PLAN
L-401	PLANTING PLAN

- LANDSCAPE LEGEND
- KIOSK
 - LAVENDER
 - THYME
 - SAGE
 - OREGANO
 - CHIVES
 - BLACK SEEDED SIMPSON LETTUCE
 - MIGHTY RED OAK LETTUCE
 - TOMATO
 - FEATHER REED GRASS
 - DESERT MALLOW
 - BLUE FESCUE
 - ALYSSUM
 - SALVIA BLUE

LANDSCAPE LEGEND

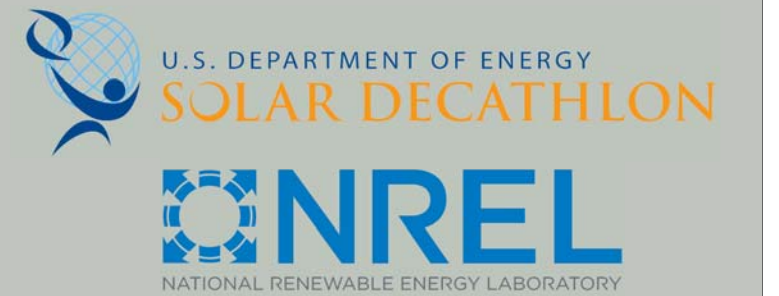
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REVISIONS

No.	Description	Date
1.	DRAWING ADJUSTMENTS	4/1/13
2.	REVEAL HIDDEN ELEMENTS	4/1/13

AS BUILT

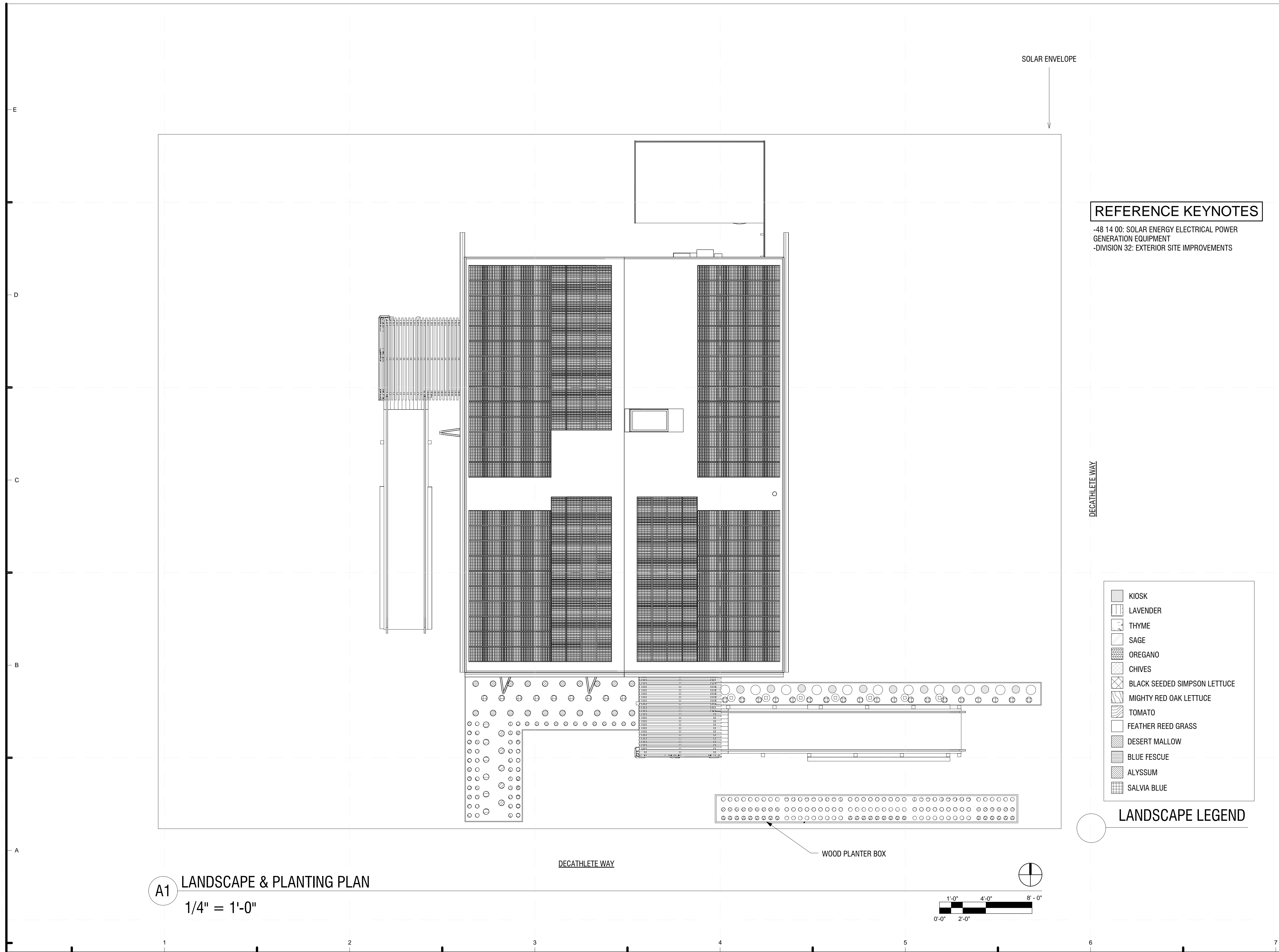
DELTA T90

LANDSCAPE & PLANTING
SITE PLAN

Date 2012/8/1
Drawn by Author

L-101

8/9/2013 11:45:09 PM



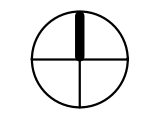
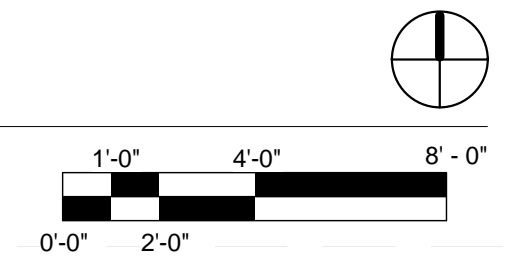
REFERENCE KEYNOTES

- 48 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT
- DIVISION 32: EXTERIOR SITE IMPROVEMENTS

- KIOSK
- LAVENDER
- THYME
- SAGE
- OREGANO
- CHIVES
- BLACK SEEDED SIMPSON LETTUCE
- MIGHTY RED OAK LETTUCE
- TOMATO
- FEATHER REED GRASS
- DESERT MALLOW
- BLUE FESCUE
- ALYSSUM
- SALVIA BLUE

LANDSCAPE LEGEND

A1 LANDSCAPE & PLANTING PLAN
1/4" = 1'-0"



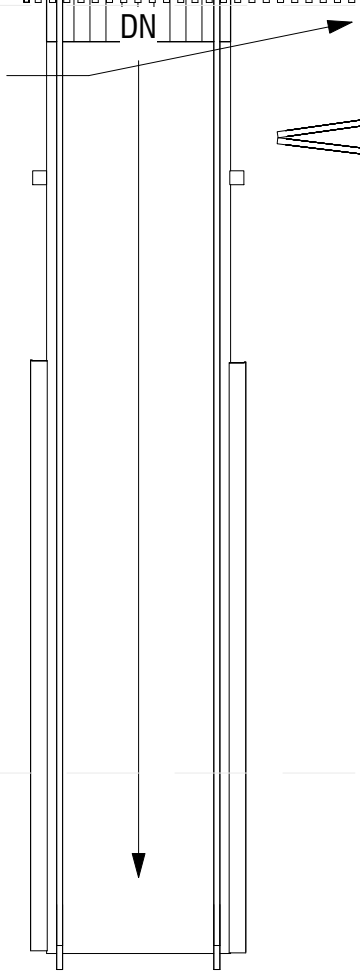
GENERAL SHEET NOTES

- NORTHWEST CORNER: DIMENSIONAL POINT OF ORIGIN
- - - - - INDICATES LOCATION OF LED ROPE LIGHTS

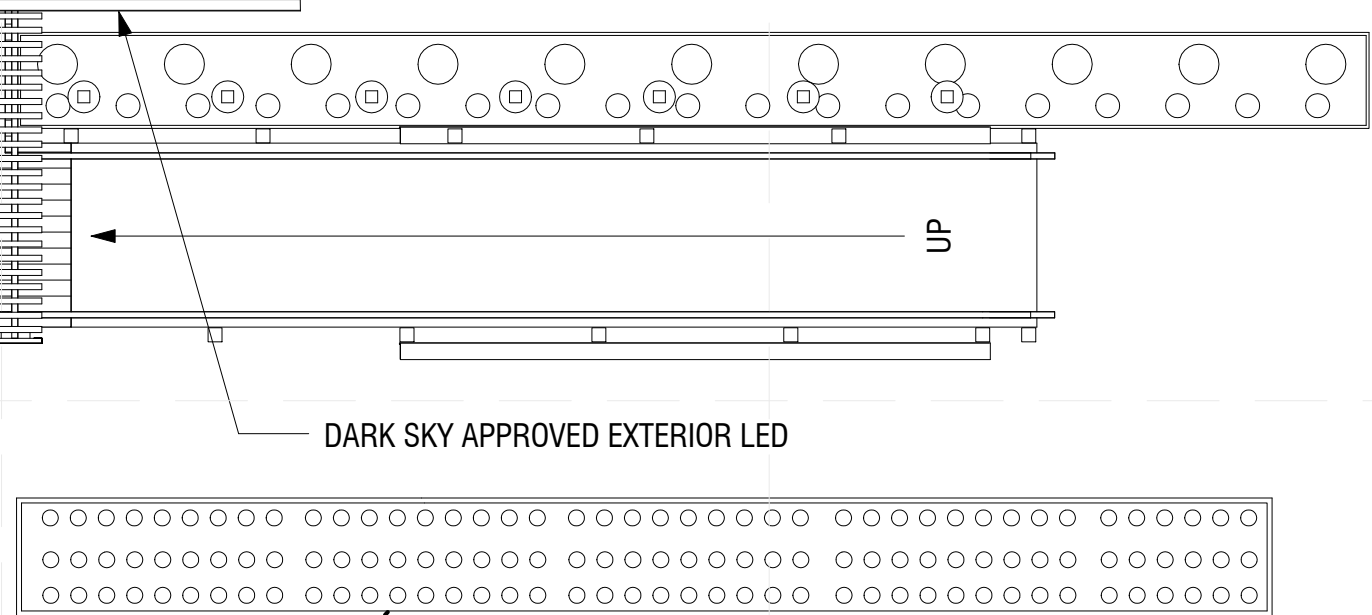
SOLAR ENVELOPE



DARK SKY APPROVED EXTERIOR LED



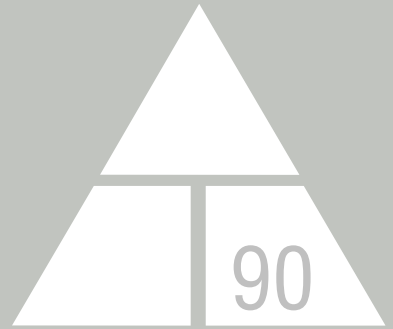
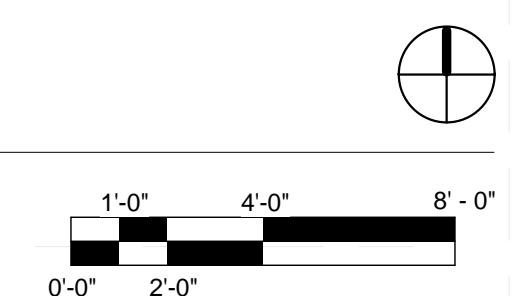
DARK SKY APPROVED EXTERIOR LED



DECATHLETE WAY

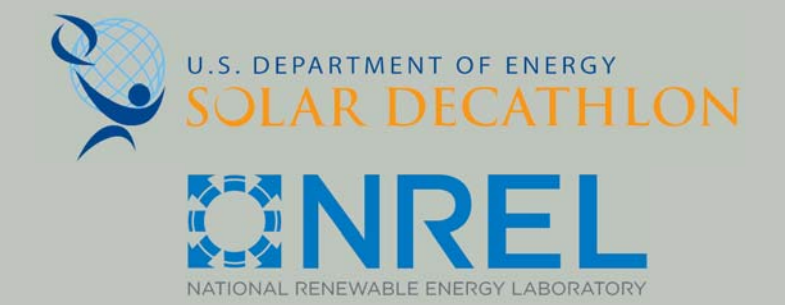
DECATHLETE WAY

A1 OUTDOOR LIGHTING PLAN
1/4" = 1'-0"



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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

OUTDOOR LIGHTING PLAN

Date 2012/8/1
Drawn by Author

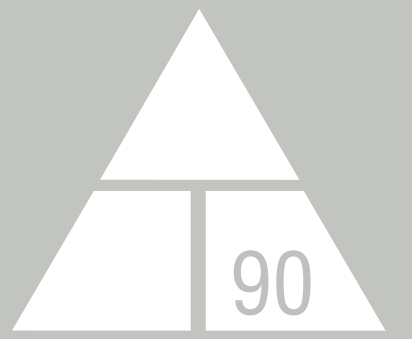
L-103

GENERAL SHEET NOTES

NORTHWEST CORNER: DIMENSIONAL POINT OF ORIGIN

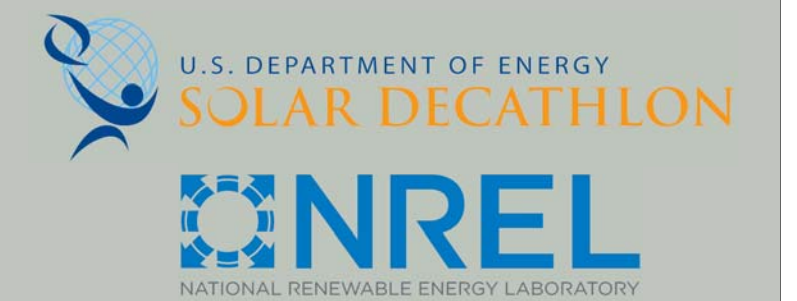
REFERENCE KEYNOTES

-02 21 12.12: BOUNDARY AND SURVEY MARKERS



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REVISIONS

No.	Description	Date
1.	DECK MODELING ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

18" GRADE CHANGE PLAN

Date 2012/8/1
Drawn by Author

L-104

8/9/2013 11:45:21 PM

SOLAR ENVELOPE



EXTERIOR LIGHT

DN

DN

EXTERIOR LIGHT

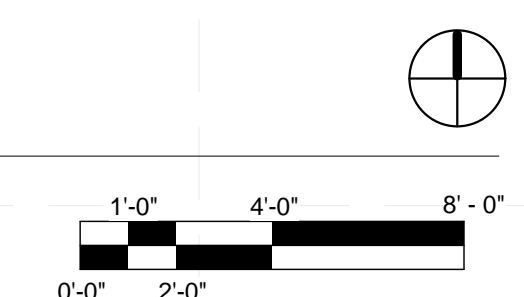
UP

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DECATHLETE WAY

DECATHLETE WAY

A1 18" GRADE CHANGE ALTERNATIVE
1/4" = 1'-0"



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REVISIONS

No.	Description	Date
1.	LABELING ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

PLANTING PLAN

Date 12/8/1
Drawn by Author

L-401

PLANT SCHEDULE						
MARK	PLANT	LOCATION	COMMENTS	SHEET	VIEW	NOTES

PLANTER BOX ONE



DESERT MALLOW



SALVIA CELESTIAL BLUE



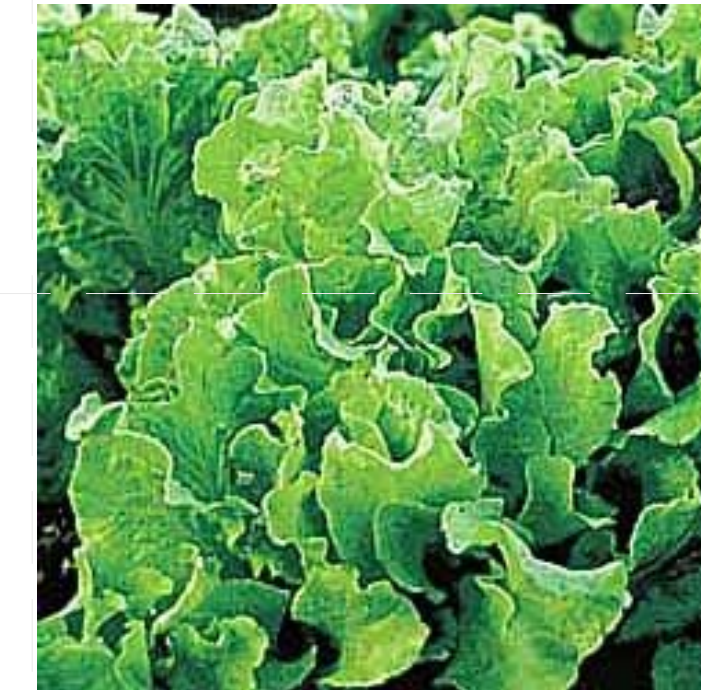
TOMATO



BLUE FESCUE



MIGHTY RED OAK LETTACE



BLACK SEEDED SIMPSON LETTACE



ALYSSUM

PLANTER BOX TWO



OREGANO



CHIVES



LAVENDER



THYME



SAGE

REFERENCE KEYNOTES

-DIVISION 32

PLANTER BOX THREE

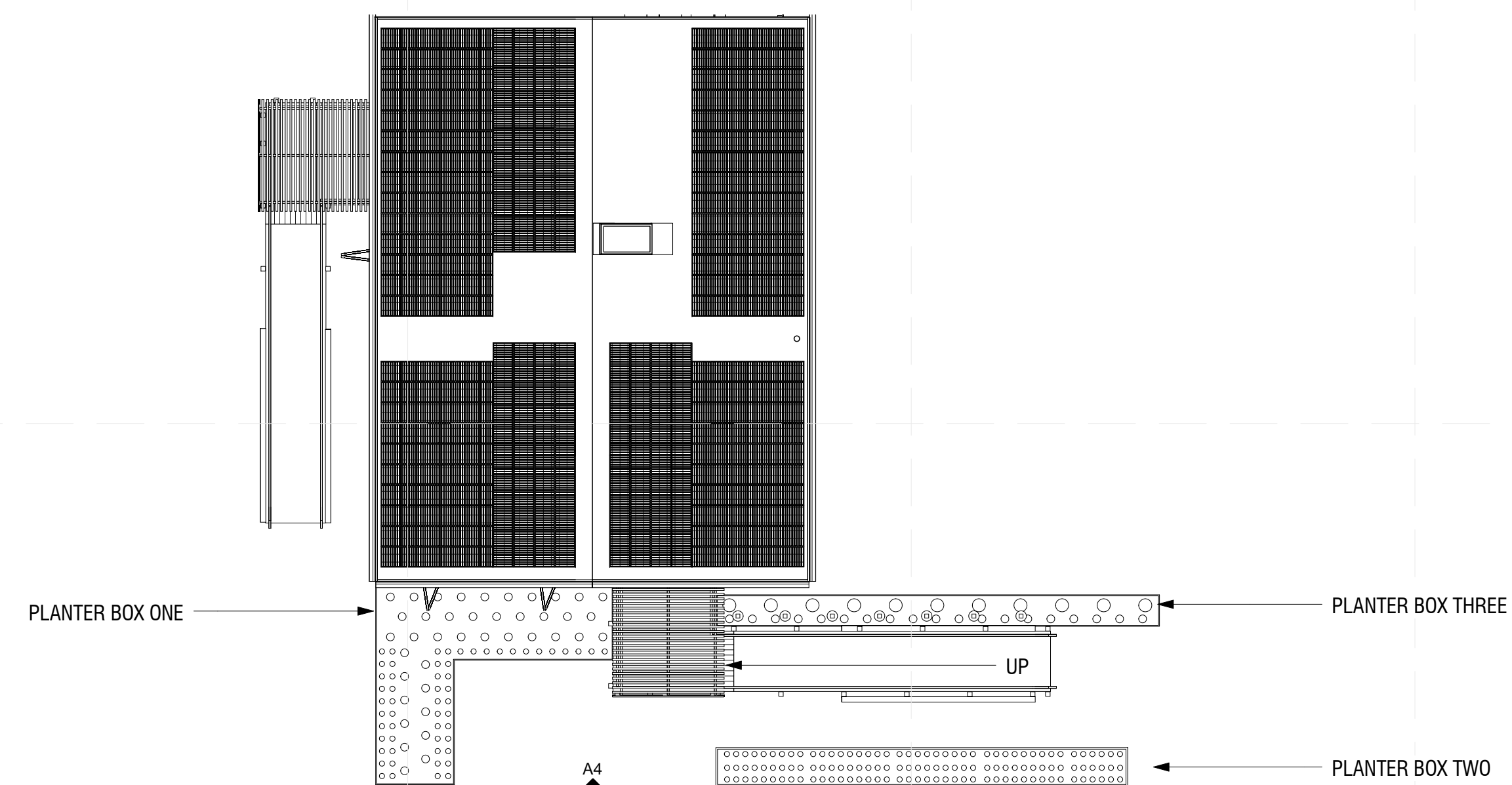


FEATHER REED GRASS

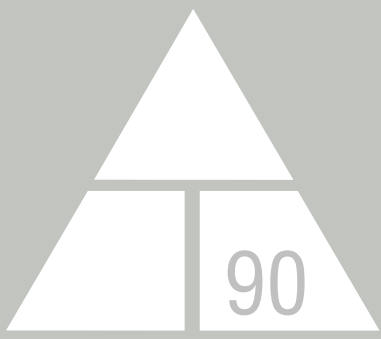


ALYSSUM

A1 PLANTING LEGEND

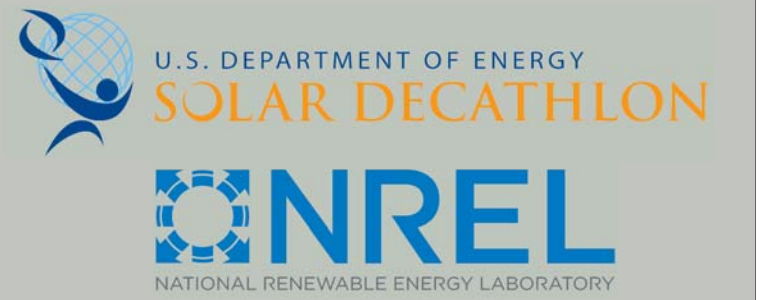


A4 LANDSCAPING PLANTER BOX LAYOUT



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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

GENERAL NOTES &
SYMBOLS

Date 2012/8/1
Drawn by Author

S-001

SHT NO	STRUCTURAL SHEET LIST SHEET NAME
S-001	GENERAL NOTES & SYMBOLS
S-102	WEST FOUNDATION DETAIL
S-103	CENTRAL FOUNDATION DETAIL
S-104	FLOOR FRAMING PLAN
S-105	FLOOR JOIST DETAIL
S-110	ROOF FRAMING PLAN
S-111	ROOF JOIST DETAIL
S-112	EASTERN ROOF SECTION
S-113	CENTRAL ROOF SECTION
S-505	DECK FRAMING PLANS
S-506	TYPICAL DECK DETAILS

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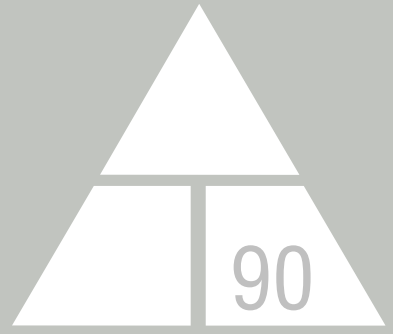
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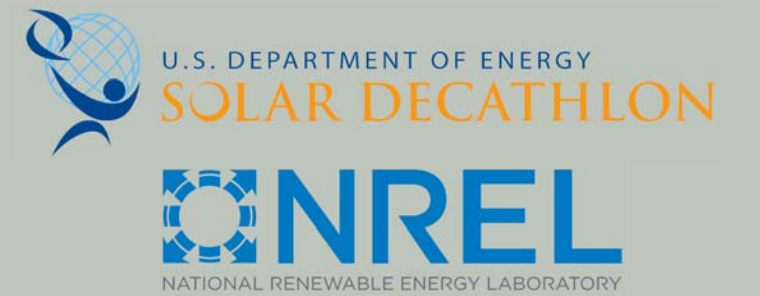
5

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7



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REVISIONS

No.	Description	Date
1.	RELOCATED 18" SECTION	4/1/13
2.	DRAWING REVISIONS	4/1/13

AS BUILT

DELTA T90

WEST FOUNDATION DETAIL

Date 2012/8/1
 Drawn by Author

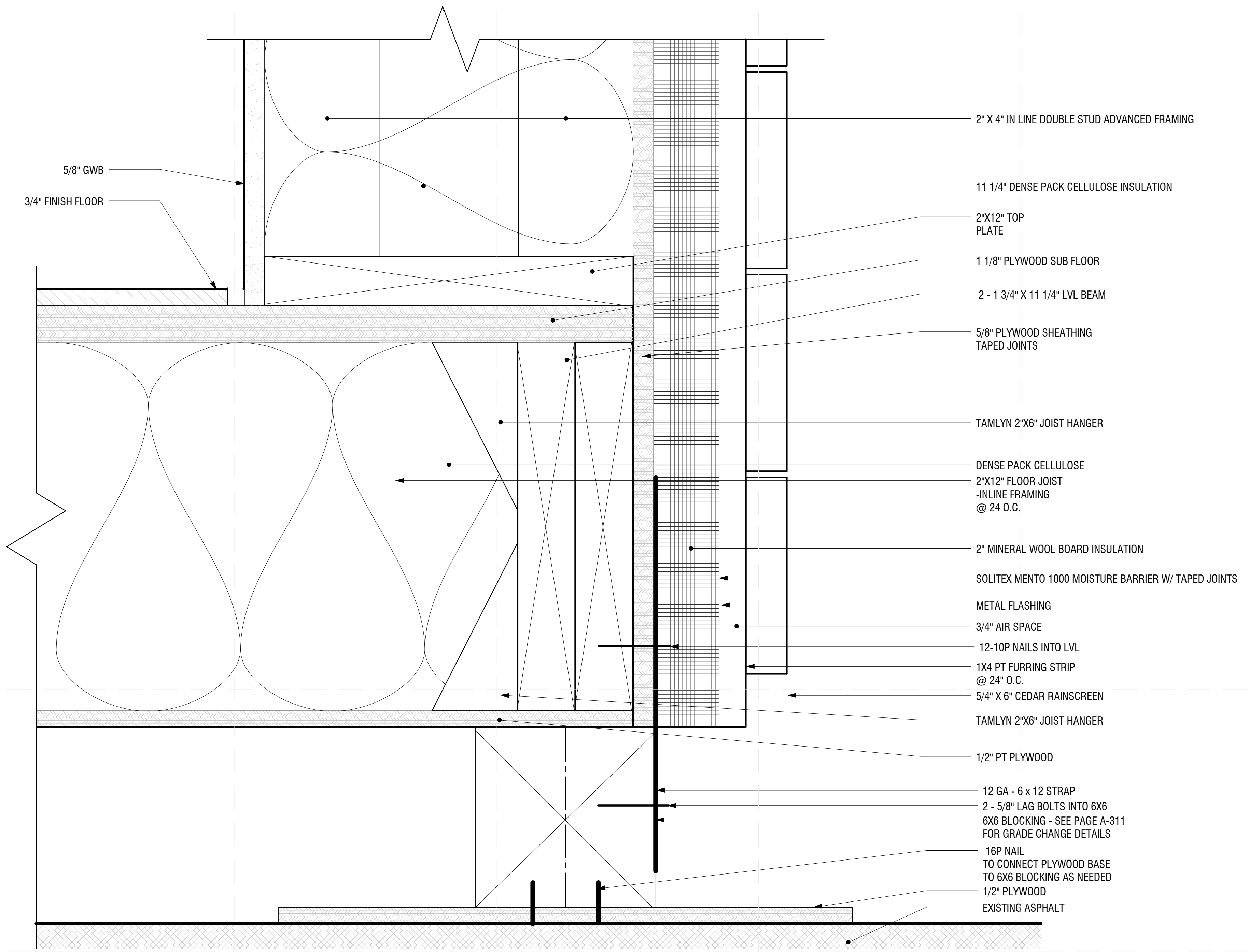
S-102

8/9/2013 11:46:35 PM

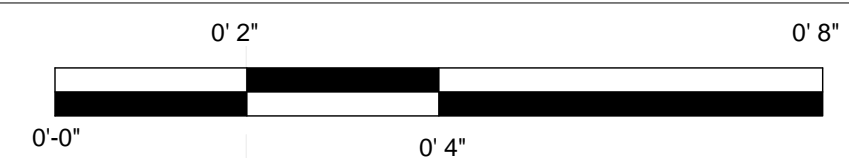
GENERAL SHEET NOTES

REFERENCE KEYNOTES

- 48 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT
- 07 54 23: THERMOPLASTIC-POLYOLEFIN ROOFING
- 07 21 13.19: MINERAL BOARD INSULATION
- 06 11 00: WOOD FRAMING
- 07 21 00: THERMAL INSULATION
- 09 21 16: GYPSUM BOARD ASSEMBLIES
- 07 13 00: SHEETING WATERPROOFING
- 07 46 23: WOOD SIDING
- 26 05 33: RACEWAY AND BOXES FOR ELECTRICAL



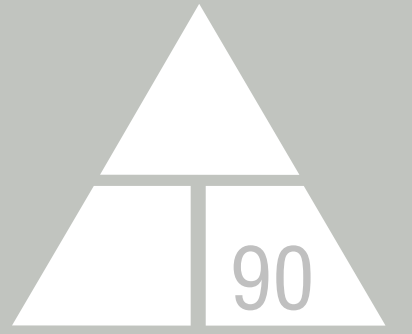
A1 FOUNDATION SECTION DETAIL
 6" = 1'-0"



GENERAL SHEET NOTES

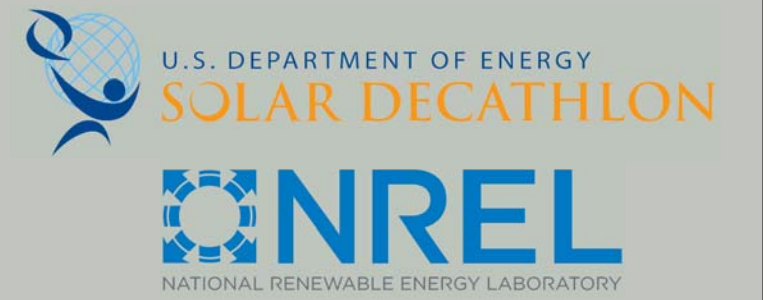
REFERENCE KEYNOTES

-06 11 00: WOOD FRAMING



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REVISIONS

No.	Description	Date
1.	STRUCTURE ADJUSTMENT	4/1/13

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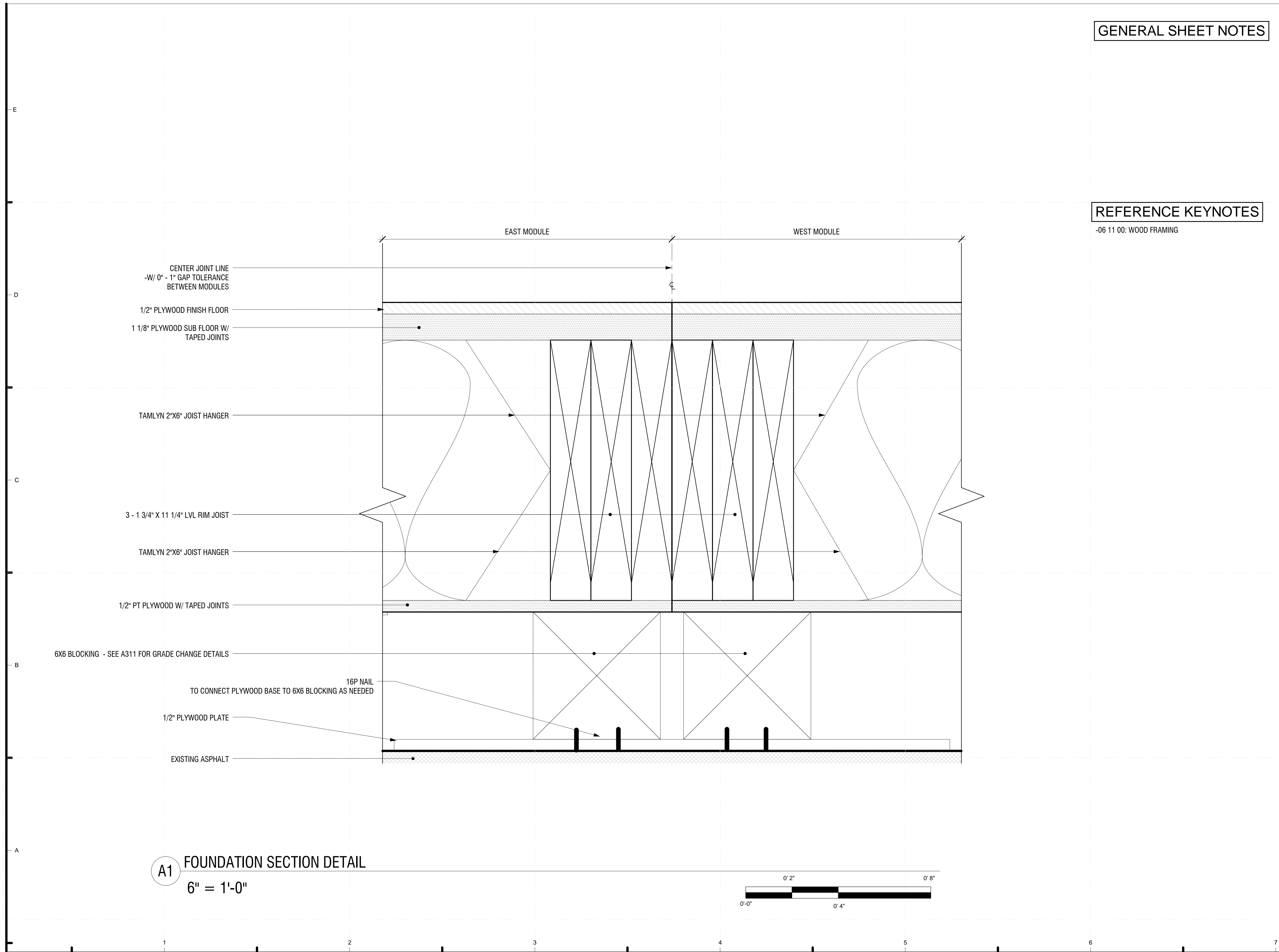
DELTA T90

CENTRAL FOUNDATION
DETAIL

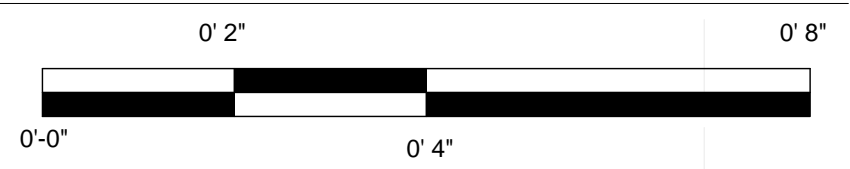
Date 2012/8/1
Drawn by Author

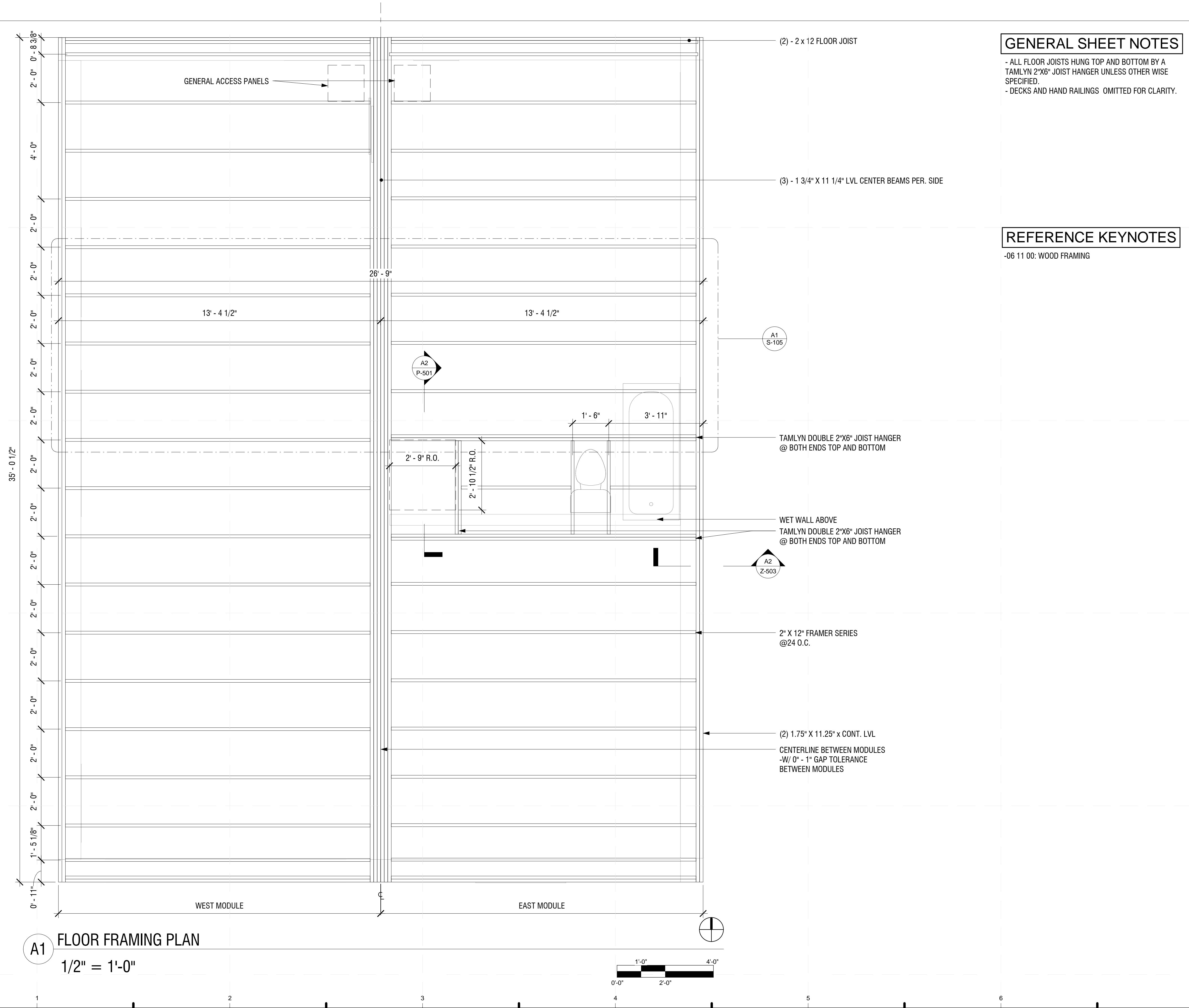
S-103

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A1 FOUNDATION SECTION DETAIL
6" = 1'-0"





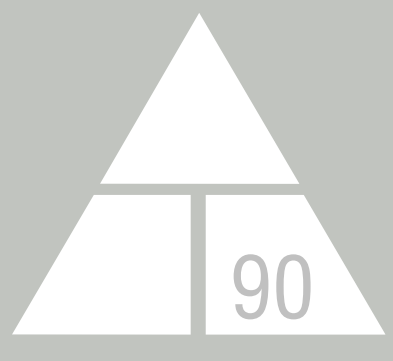
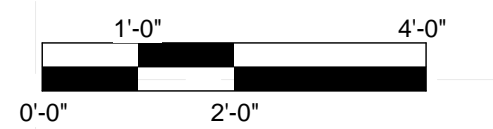
GENERAL SHEET NOTES

- ALL FLOOR JOISTS HUNG TOP AND BOTTOM BY A TAMLYN 2"X6" JOIST HANGER UNLESS OTHER WISE SPECIFIED.
- DECKS AND HAND RAILINGS OMITTED FOR CLARITY.

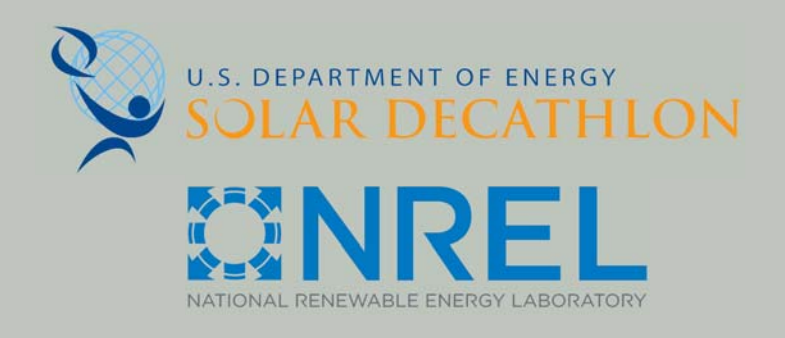
REFERENCE KEYNOTES

-06 11 00: WOOD FRAMING

A1 FLOOR FRAMING PLAN
1/2" = 1'-0"



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CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

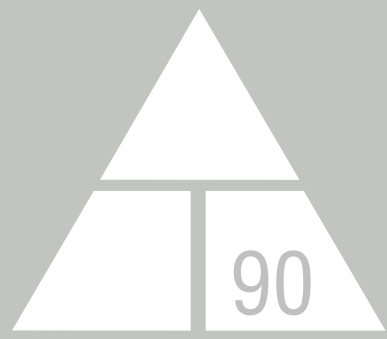
AS BUILT

DELTA T90

FLOOR FRAMING PLAN

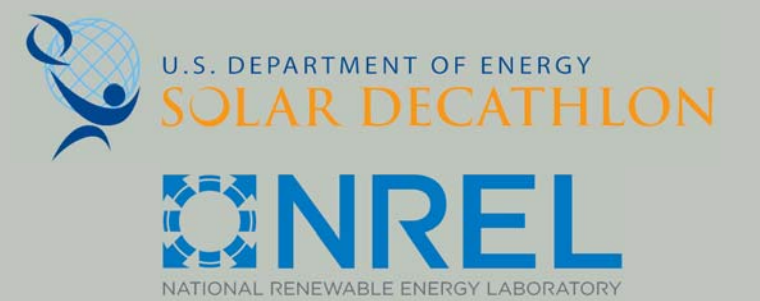
Date 2012/8/1
Drawn by Author

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CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

FLOOR JOIST DETAIL

Date 2012/8/1
Drawn by Author

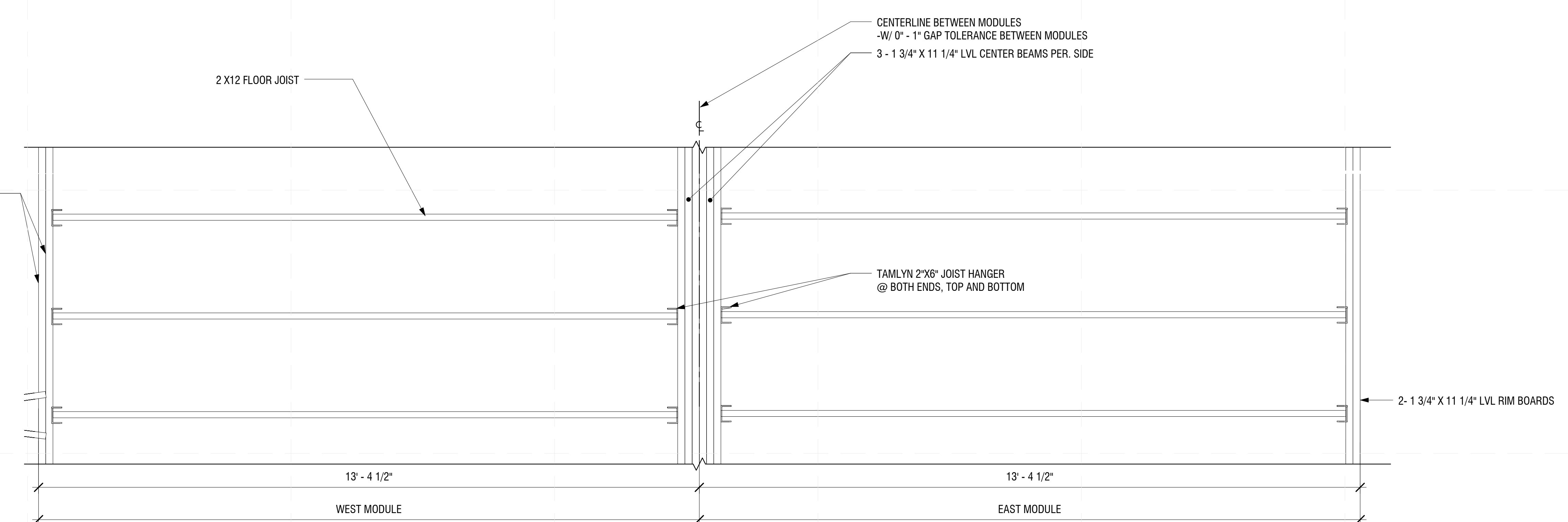
S-105

8/9/2013 11:46:40 PM

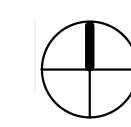
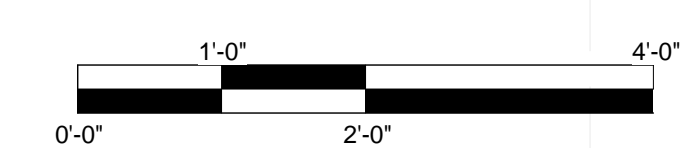
GENERAL SHEET NOTES

REFERENCE KEYNOTES

- 06 11 00: WOOD FRAMING
- 06 15 13: WOOD DECKING AND FOUNDATION

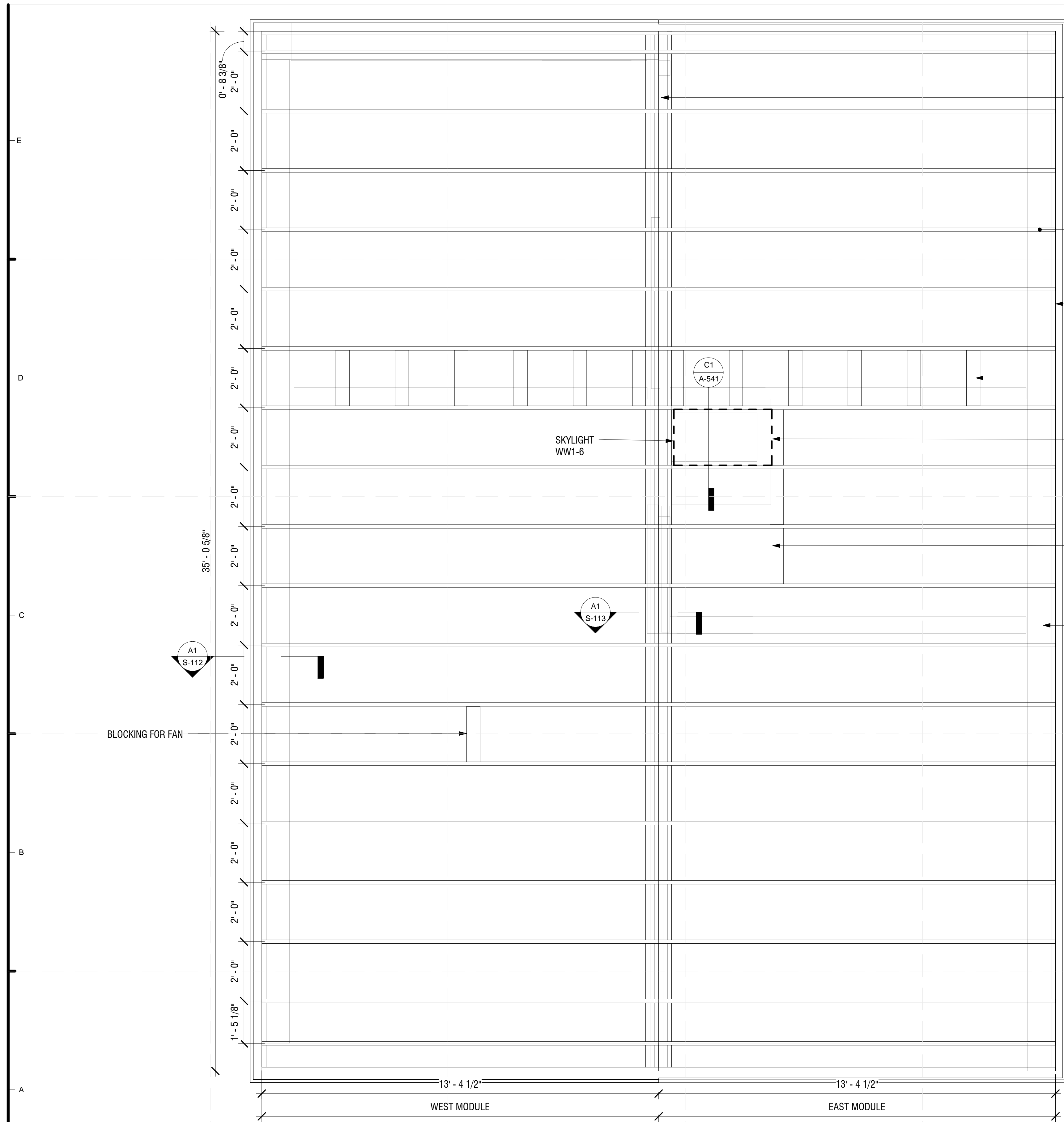


A1 FLOOR JOIST DETAIL
3/4" = 1'-0"



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1 2 3 4 5 6 7

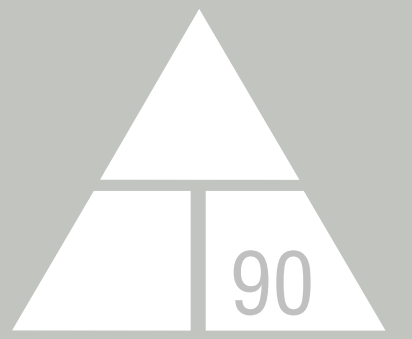


GENERAL SHEET NOTES

- DECKS, RAILING AND SHADING DEVICES OMITTED FOR CLARITY

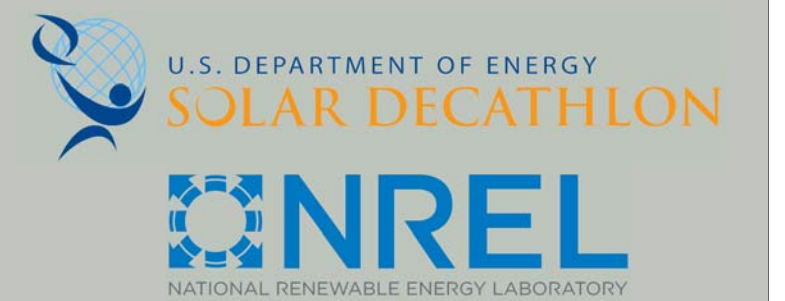
REFERENCE KEYNOTES

-06 11 00: WOOD FRAMING
-08 61 00: ROOF WINDOWS



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No.	Description	Date

AS BUILT

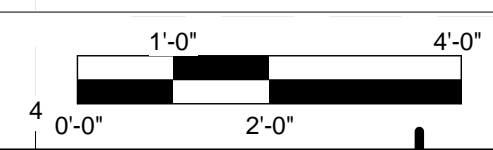
DELTA T90

ROOF FRAMING PLAN

Date 2012/8/1
Drawn by Author

S-110

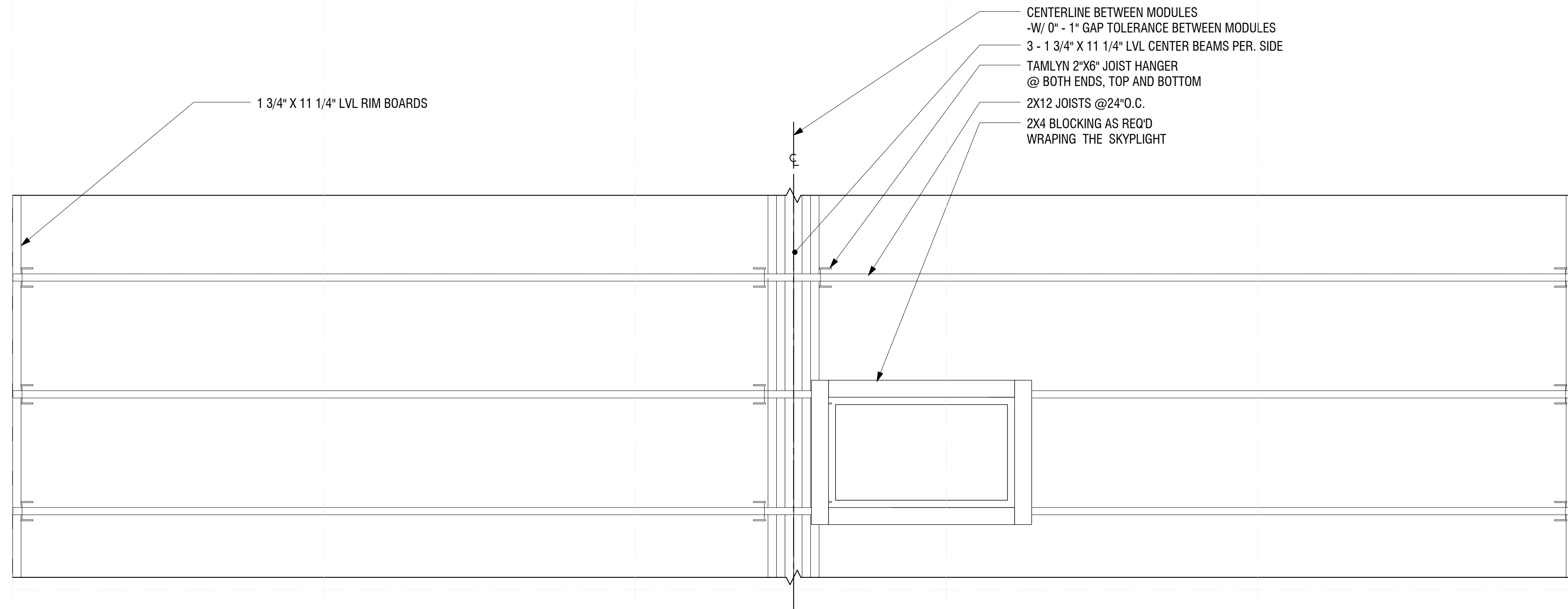
A1 ROOF FRAMING PLAN
1/2" = 1'-0"



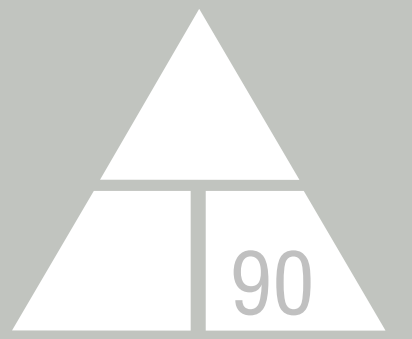
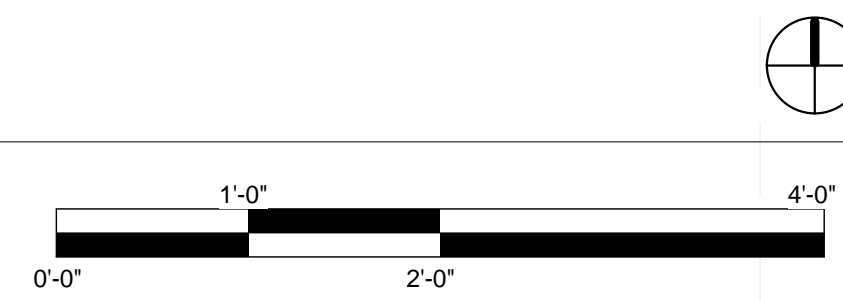
GENERAL SHEET NOTES

REFERENCE KEYNOTES

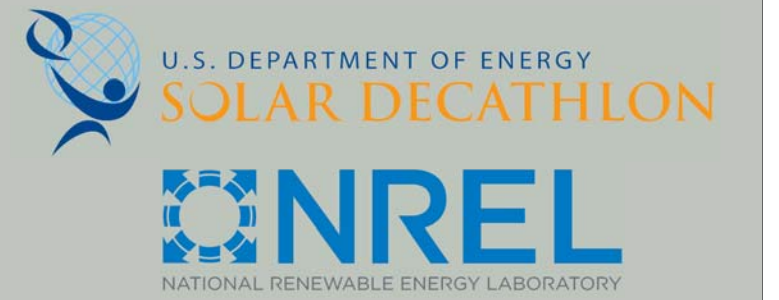
-06 11 00: WOOD FRAMING



B1 ROOF JOIST DETAIL
3/4" = 1'-0"



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REVISIONS

No.	Description	Date
1.	DRAWING ADJUSTMENTS	4/1/13

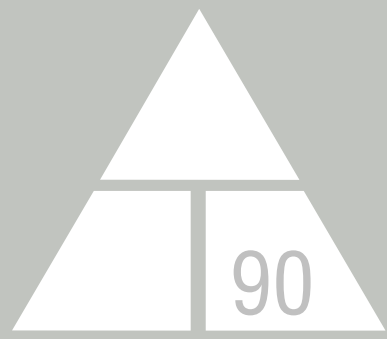
AS BUILT

DELTA T90

ROOF JOIST DETAIL

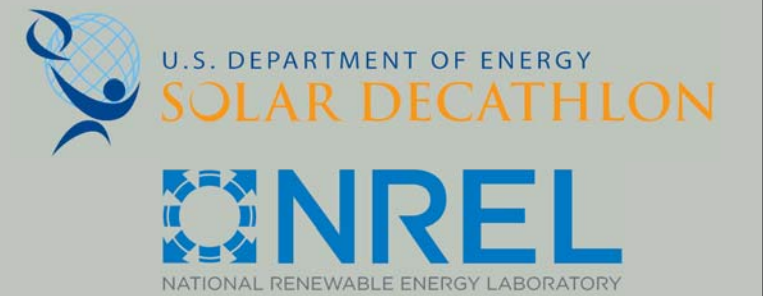
Date 2012/8/1
Drawn by Author

S-111



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REVISIONS

No.	Description	Date
1.	LINEWEIGHT ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

EASTERN ROOF SECTION

Date 2012/8/1
Drawn by Author

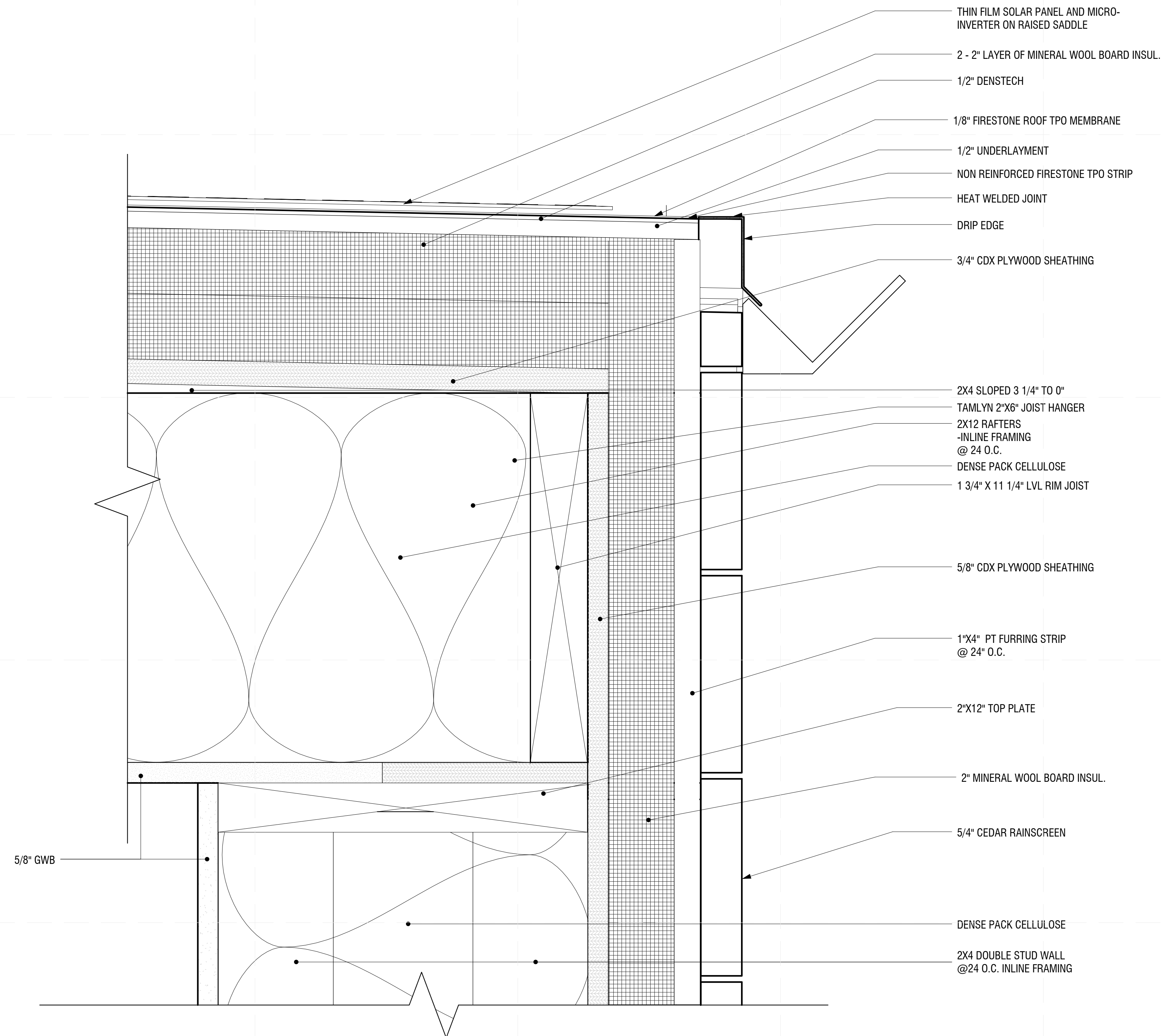
S-112

8/9/2013 11:46:44 PM

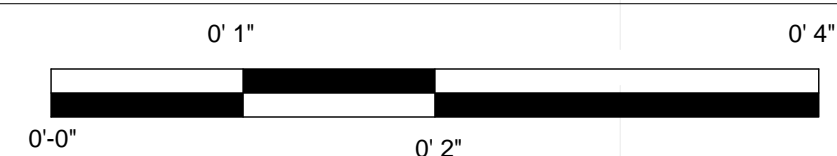
GENERAL SHEET NOTES

REFERENCE KEYNOTES

- 48 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT
- 07 54 23: THERMOPLASTIC-POLYOLEFIN ROOFING
- 07 21 13.19: MINERAL BOARD INSULATION
- 06 11 00: WOOD FRAMING
- 07 21 00: THERMAL INSULATION
- 09 21 16: GYPSUM BOARD ASSEMBLIES
- 07 13 00: SHEETING WATERPROOFING
- 07 46 23: WOOD SIDING
- 26 05 33: RACEWAY AND BOXES FOR ELECTRICAL

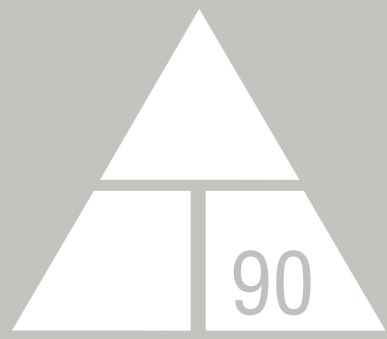


A1 EASTERN ROOF SECTION DETAIL
6" = 1'-0"



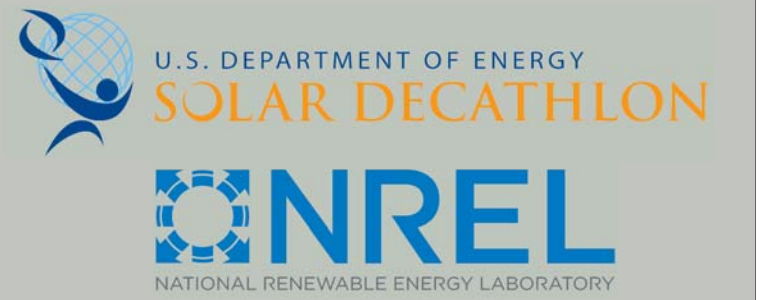
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DELTA T90

CENTRAL ROOF SECTION

Date 2012/8/1
Drawn by Author

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GENERAL SHEET NOTES

REFERENCE KEYNOTES

-06 11 00: WOOD FRAMING
-REFER TO SHEET S - 112 FOR REFERENCES

CENTER JOINT LINE
-W/ 0" - 1" GAP TOLERANCE
BETWEEN MODULES
HEAT WELDED JOINT

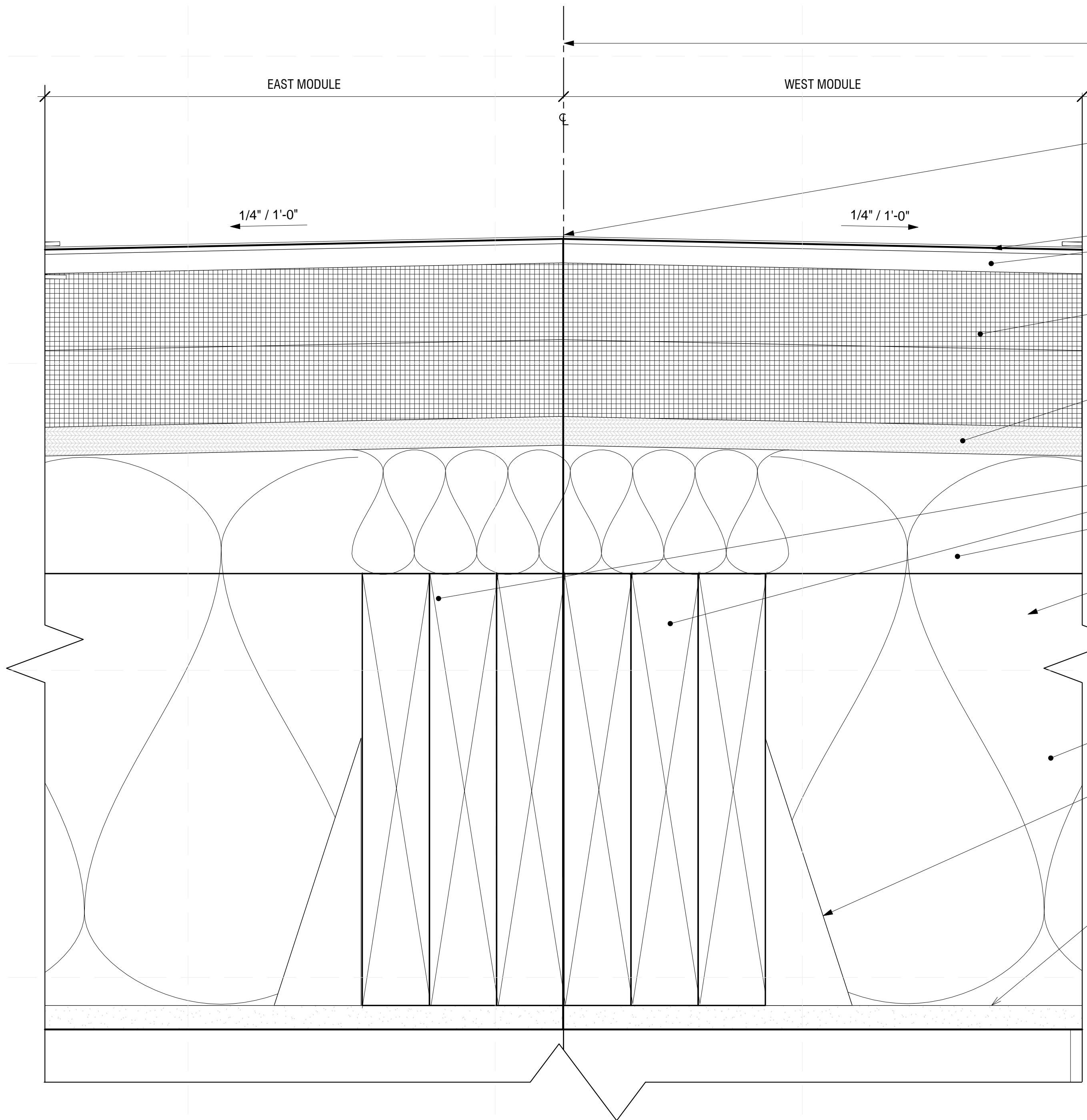
1/8" FIRESTONE TPO ROOF MEMBRANE
1/2" DENSTECH UNDERLAYMENT

2- 2" LAYERS MINERAL WOOL TOP ROCK
INSULATION

3/4" CDX PLYWOOD SHEATHING

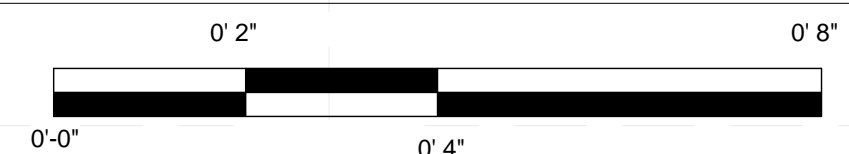
3 - 1 3/4" X 11 1/4" LVL RIM JOIST
2X4 SLOPED
- 3 1/4" TO 0"
2X12 RAFTERS
-INLINE FRAMING
@ 24 O.C.

DENSE PACK CELLULOSE
INSULATION
TAMLYN 2"X6" JOIST HANGER
5/8" GWB



A1 ROOF SECTION DETAIL

6" = 1'-0"

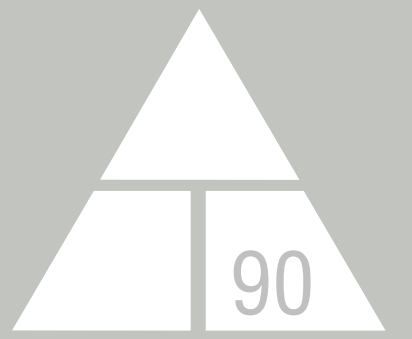


GENERAL SHEET NOTES

- DESIGNED LOAD = 100PSF

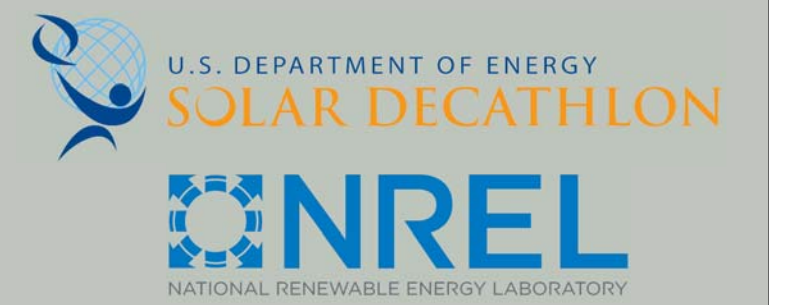
REFERENCE KEYNOTES

-06 15 13: WOOD FLOOR DECKING



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REVISIONS

No.	Description	Date

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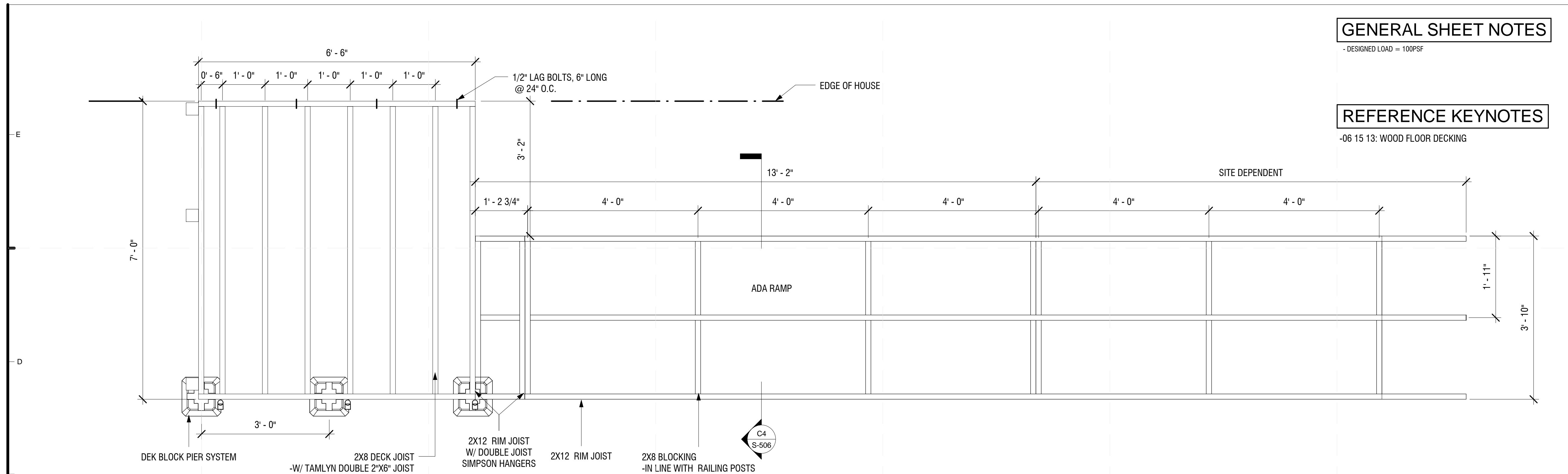
DELTA T90

DECK FRAMING PLANS

Date 12/12/12
Drawn by Author

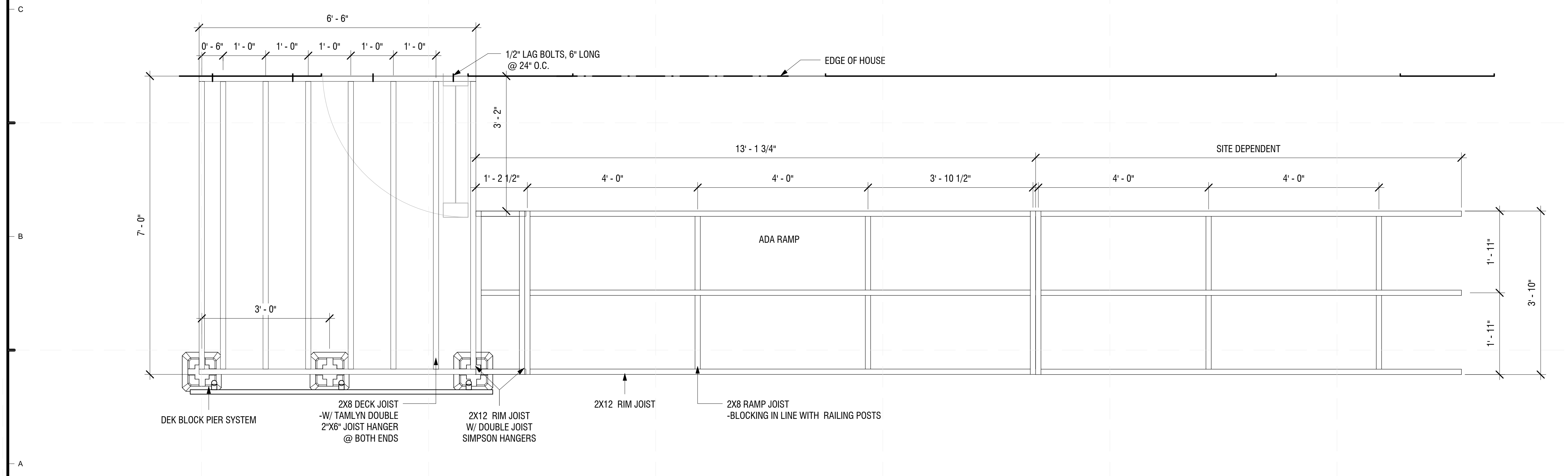
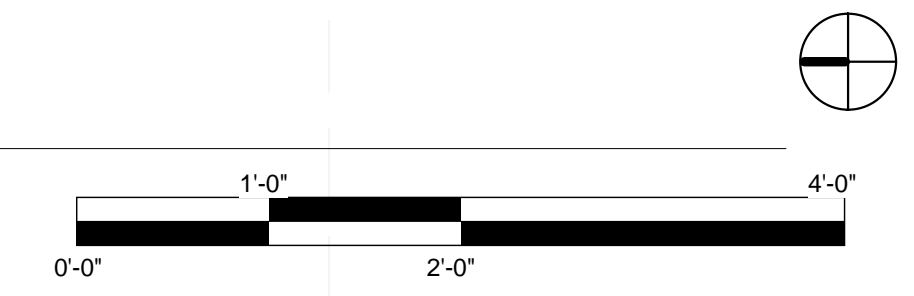
S-505

8/9/2013 11:46:48 PM



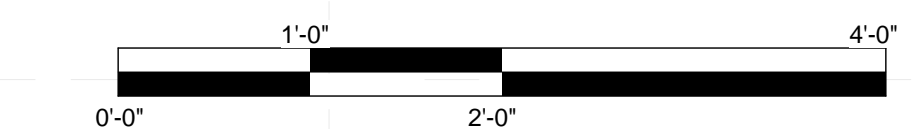
C1 SOUTH DECK FRAMING PLAN

3/4" = 1'-0"



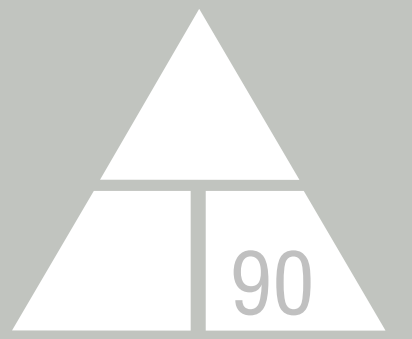
A1 WEST DECK FRAMING PLAN

3/4" = 1'-0"



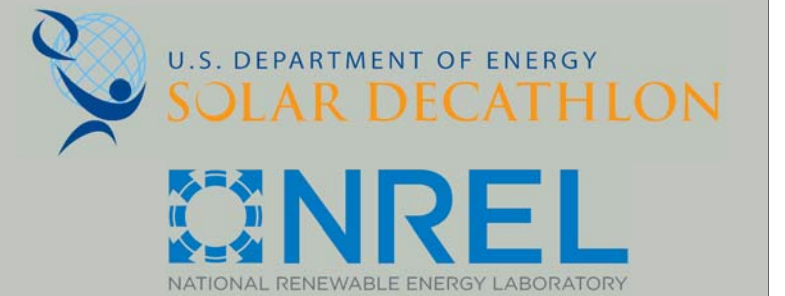
GENERAL SHEET NOTES

- DESIGNED LOAD = 100PSF



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REVISIONS

No.	Description	Date
1.	RAILING REDESIGN	4/1/13
2.	RAILING CONNECTION ADJUSTMENTS	4/1/13

AS BUILT

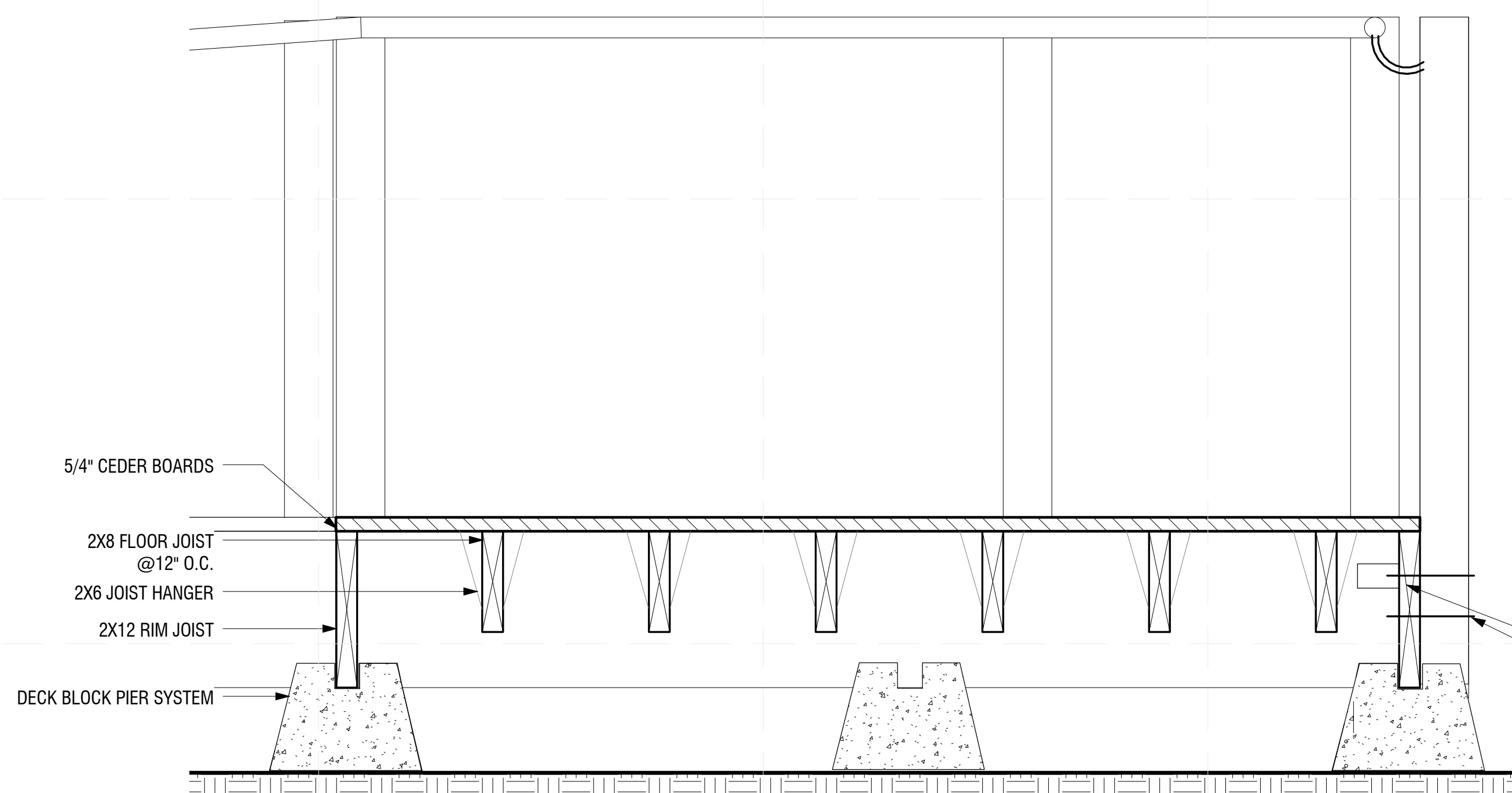
DELTA T90

TYPICAL DECK DETAILS

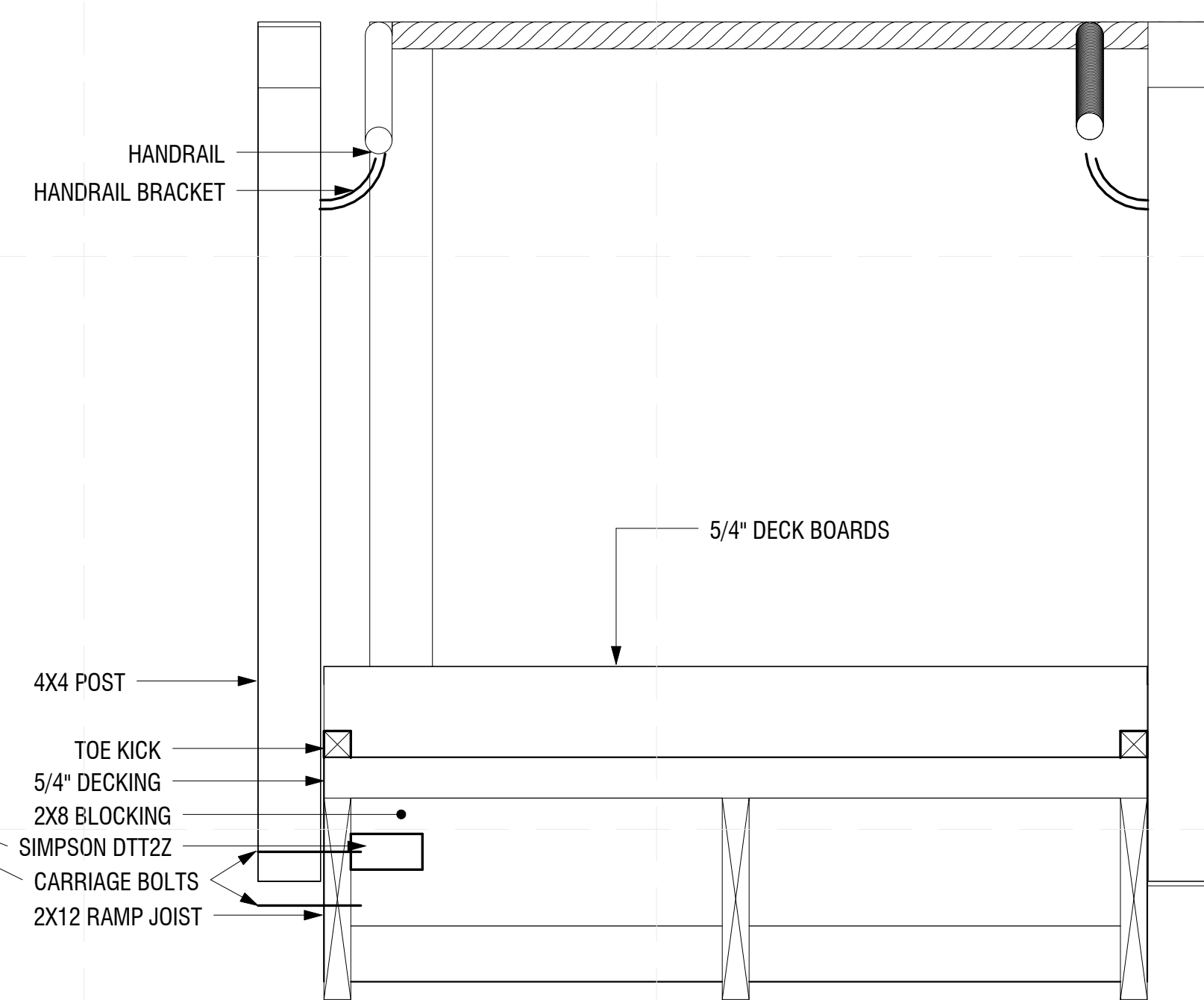
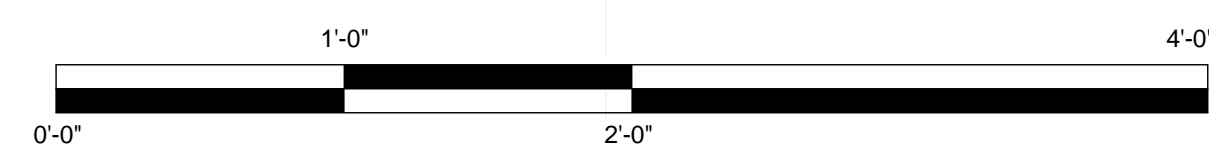
Date 12/8/12
Author
Drawn by

S-506

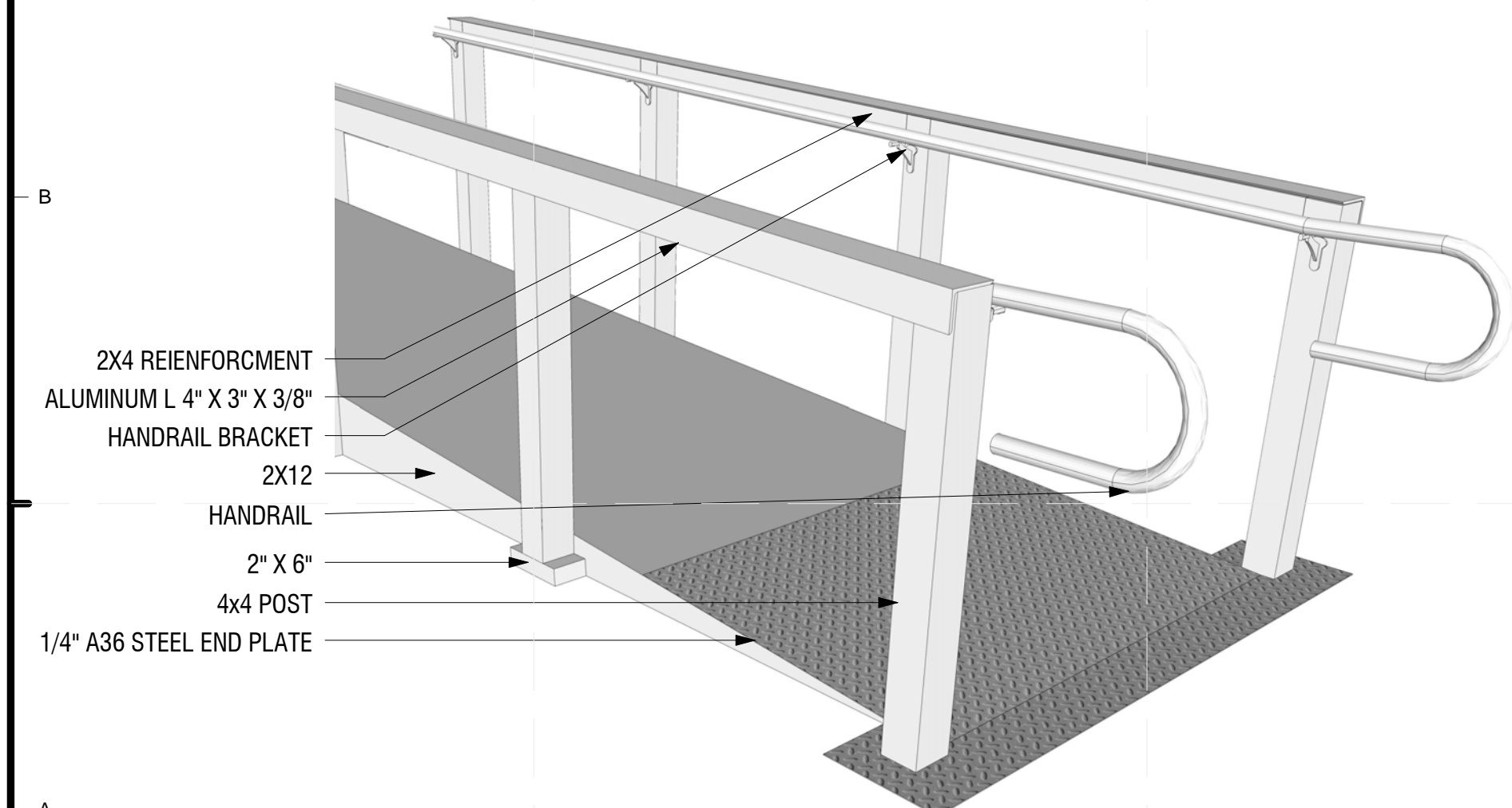
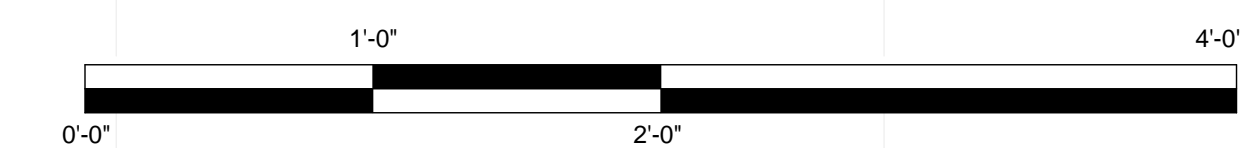
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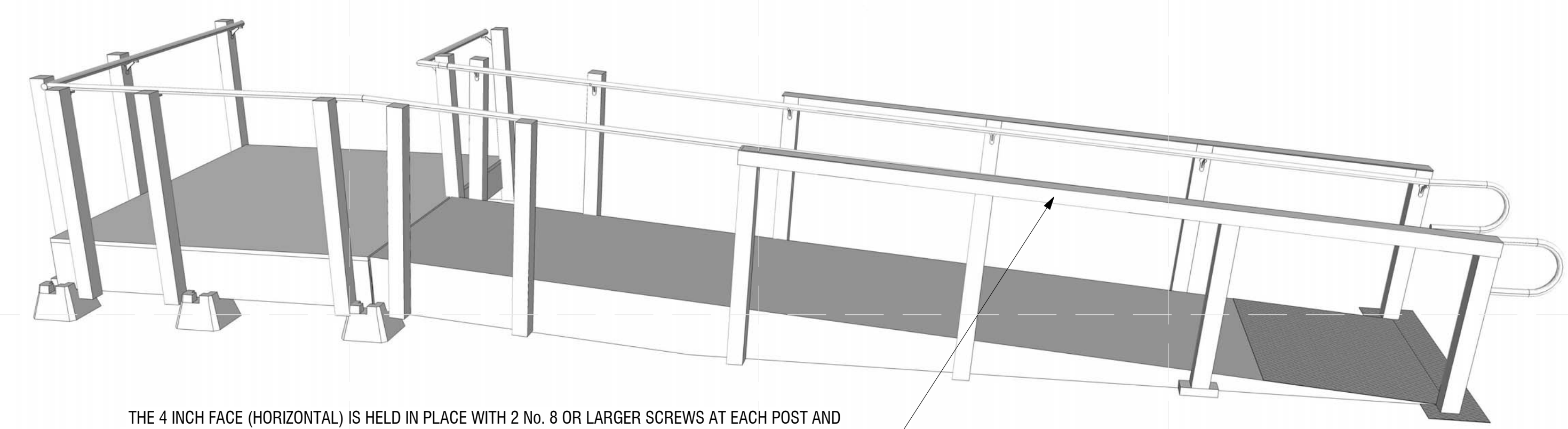
C1 SOUTH DECK SOUTH SECTION DETAIL
1 1/2" = 1'-0"



C4 SOUTH DECK EAST SECTION DETAIL
1 1/2" = 1'-0"

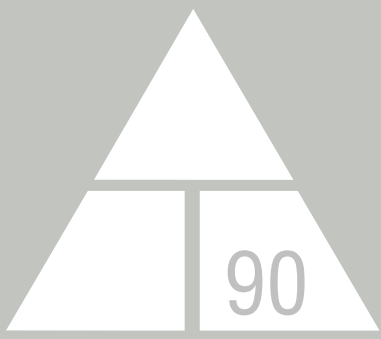


A1 RAILING COMPONENT DIAGRAMS



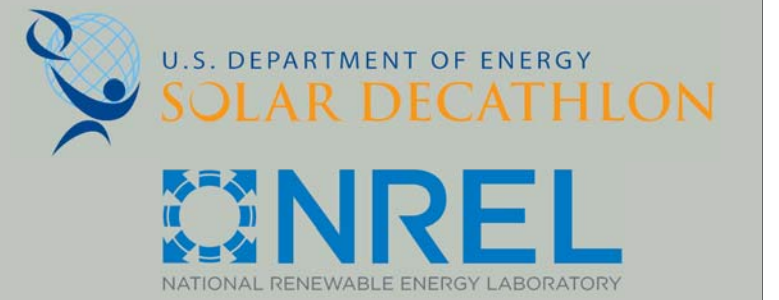
THE 4 INCH FACE (HORIZONTAL) IS HELD IN PLACE WITH 2 NO. 8 OR LARGER SCREWS AT EACH POST AND @ 16 O.C. BETWEEN EACH POSTS TO ATTACH THE ALUMINUM L4X3X3/8 ANGLE TO THE 2X4 UNDERNEATH. THE 3 INCH FACE (VERTICAL) 2 NO. 8 OR LARGER SCREWS AT THE POSTS.

1 2 3 4 5 6 7



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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

GENERAL NOTES & SYMBOLS

Date 2012/8/1
Drawn by Author

A-001

8/9/2013 11:47:45 PM

ARCHITECTURAL SHEET LIST

SHT NO	SHEET NAME
A-001	GENERAL NOTES & SYMBOLS
A-101	SITE PLAN
A-110	KEY FLOOR PLAN
A-111	DIMENSIONED FLOOR PLAN
A-112	CONDITIONED SPACE PLAN
A-113	ROOF PLAN
A-114	WEST SHADING
A-115	SOUTH SHADING
A-121	REFLECTED CEILING PLAN (RCP)
A-211	EXTERIOR ELEVATIONS
A-212	EXTERIOR ELEVATIONS
A-301	LONGITUDINAL BUILDING SECTIONS
A-302	TRANSVERSE BUILDING SECTION
A-303	TRANSVERSE BUILDING SECTIONS
A-311	EXTERIOR WALL SECTION
A-401	ENLARGED KITCHEN & BATH PLAN
A-501	WATER SHADING DETAILS
A-531	INTERIOR DOOR JAMB DETAILS
A-541	WINDOW DETAILS
A-603	WALL TYPE SCHEDULE
A-604	DOOR SCHEDULE
A-605	WINDOW SCHEDULE
A-606	APPLIANCE AND ROOM FINISH SCHEDULE

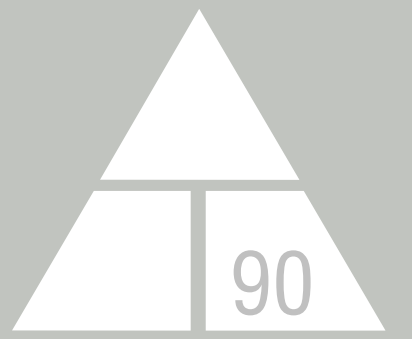
101	DOOR TAG
	LIGHT FIXTURE TAG
ROOM NAME 	ROOM TAG
	WALL TAG
	WINDOW TAG
	DETAIL CALLOUT
	ELEVATION CALLOUT
	SECTION CALLOUT
	SPOT ELEVATION
	GRID HEAD
Name Elevation	LEVEL HEAD

ARCHITECTURAL SYMBOLS

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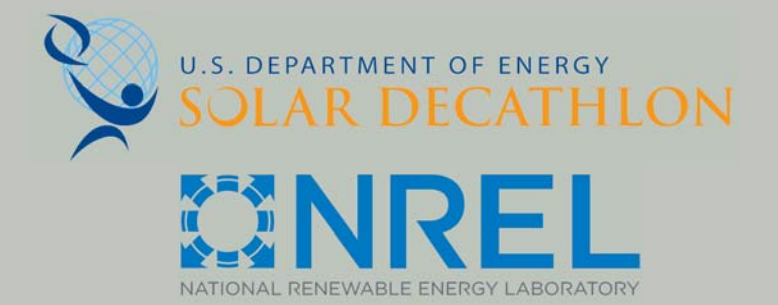
1 2 3 4 5 6 7

GENERAL SHEET NOTES



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CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

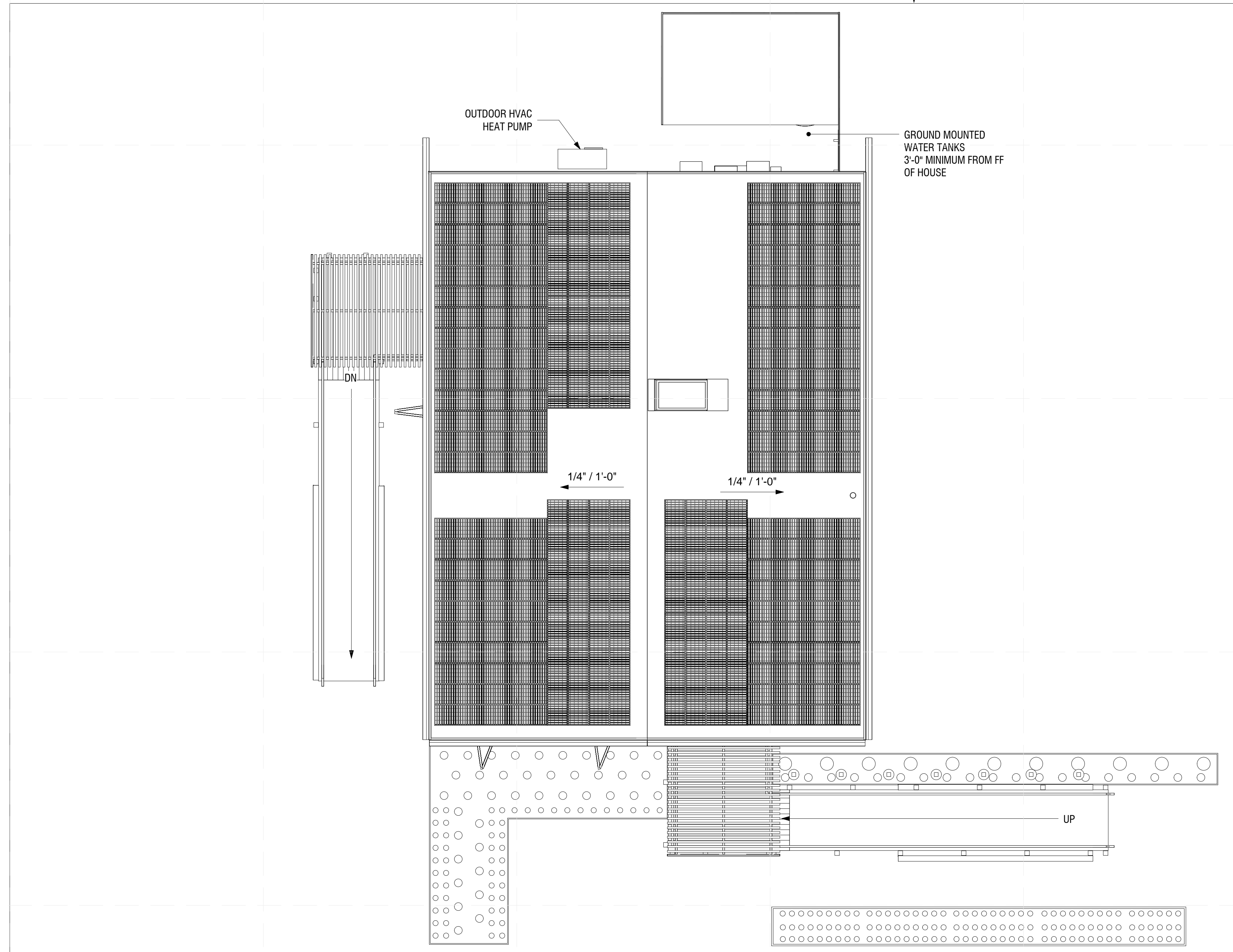
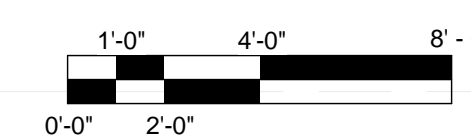
SITE PLAN

Date 2012/8/1
Drawn by Author

A-101

8/9/2013 11:47:49 PM

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



REFERENCE KEYNOTES

46 00 00: WATER AND WASTEWATER EQUIPMENT
23 81 26: SPLIT-SYSTEM AIR CONDITIONERS

DECATHLETE WAY

DECATHLETE WAY

G-603

A1 G-201

G-201

G-202

E

D

C

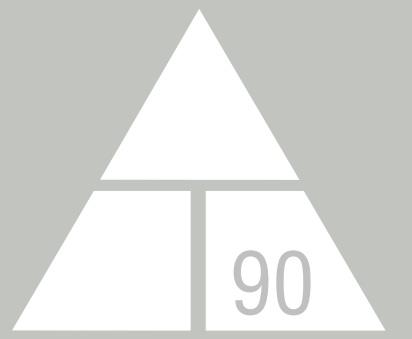
B

A

1 2 3 4 5 6 7

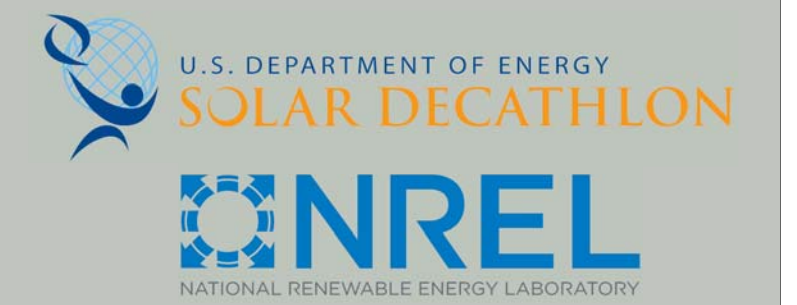
GENERAL SHEET NOTES

- WATER TANKS, EXTERIOR DECKS AND RAILINGS
OMITTED FOR CLARITY



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REVISIONS

No.	Description	Date
1.	LABELING ADJUSTMENTS	4/1/13

AS BUILT

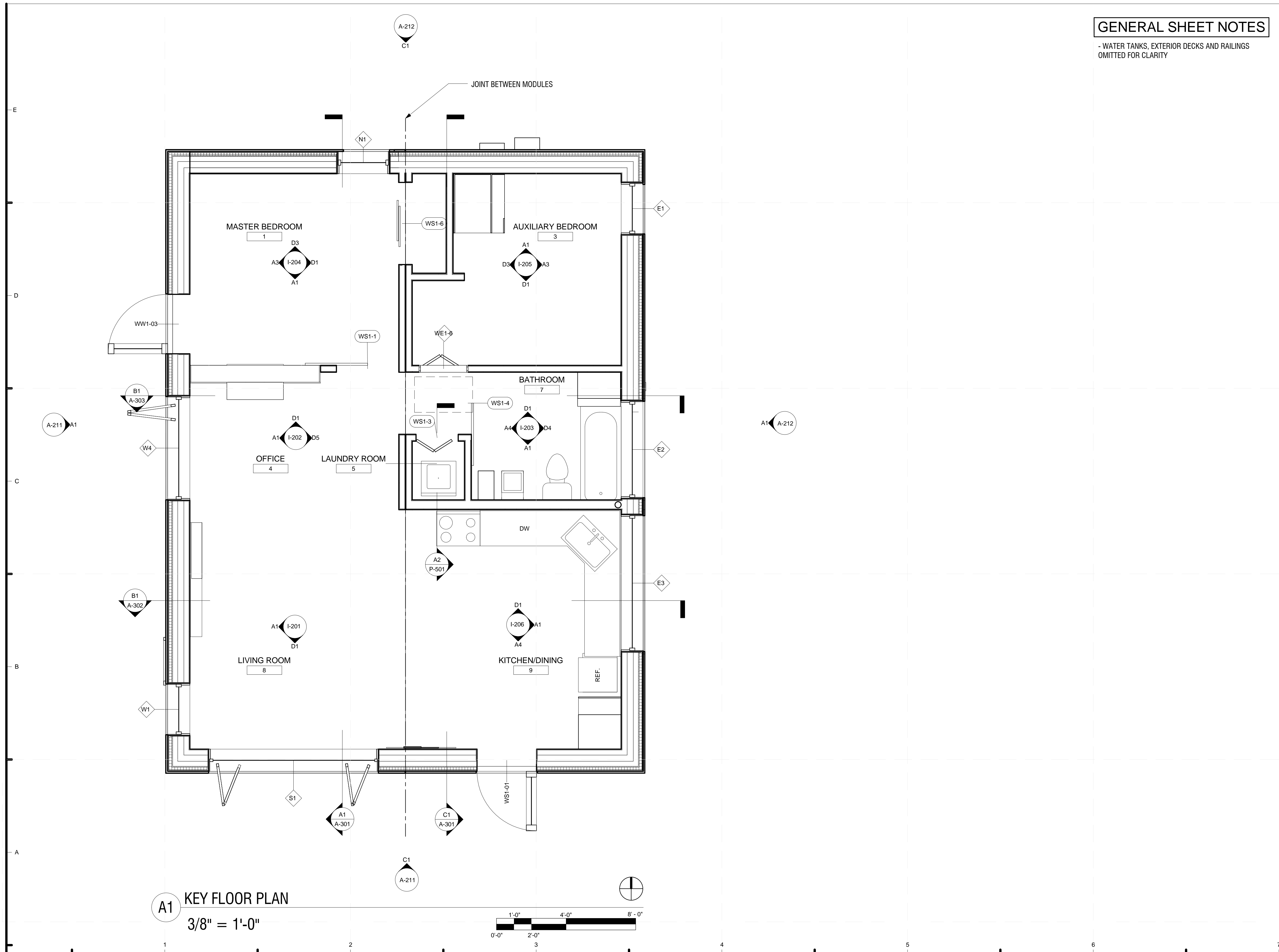
DELTA T90

KEY FLOOR PLAN

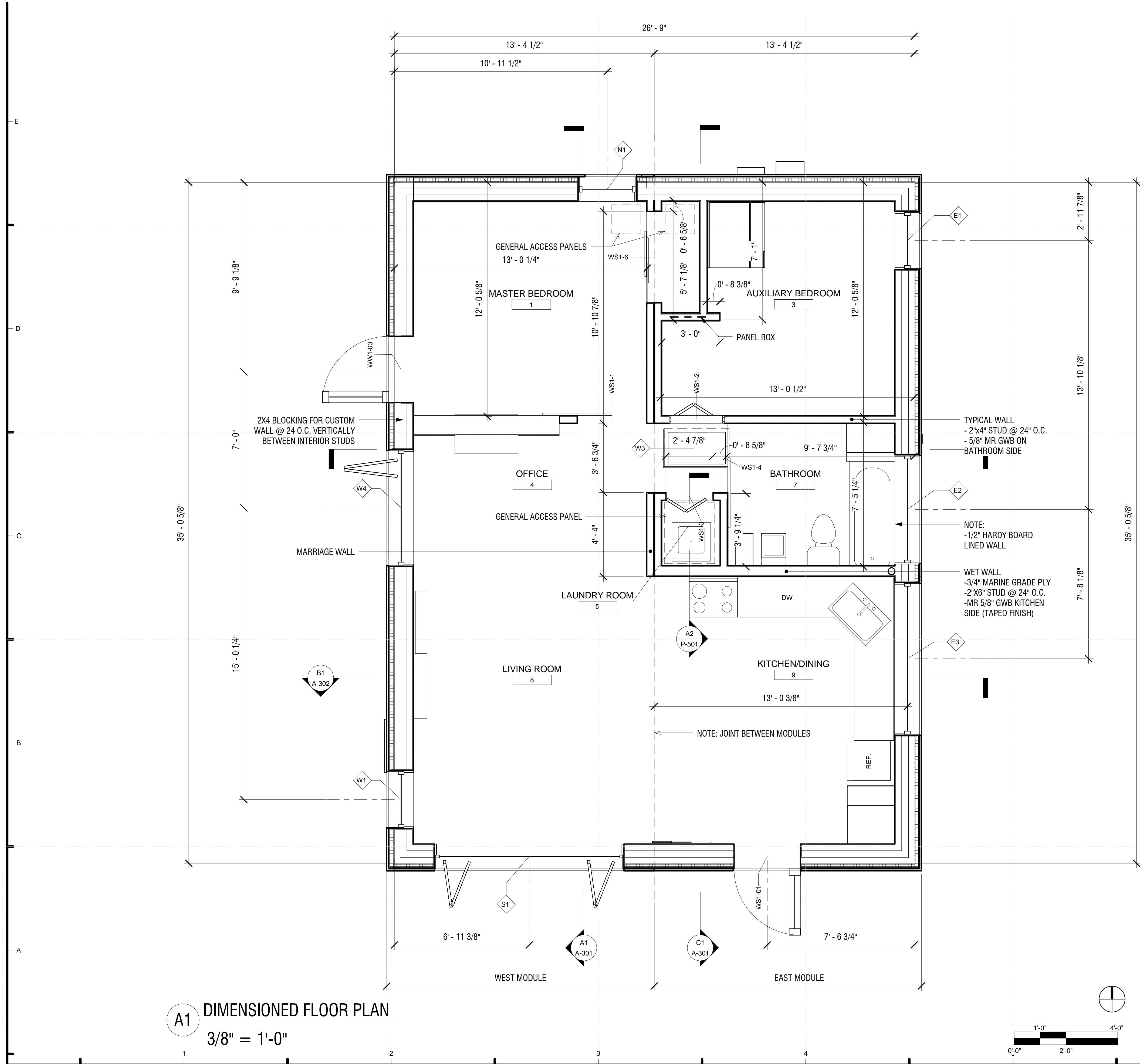
Date 2012/8/1
Drawn by Author

A-110

8/9/2013 11:47:53 PM



A1 KEY FLOOR PLAN
3/8" = 1'-0"

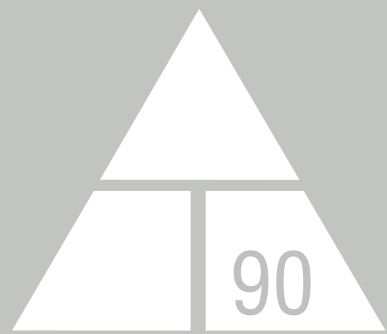


GENERAL SHEET NOTES

- DECKS, RAILINGS, WATER TANKS, AND TANKADE OMITTED FOR CLARITY
- ALL EXTERIOR DIMENSIONS FROM OUTSIDE FACE OF STUD
- ALL INTERIOR DIMENSIONS FROM FACE OF STUD

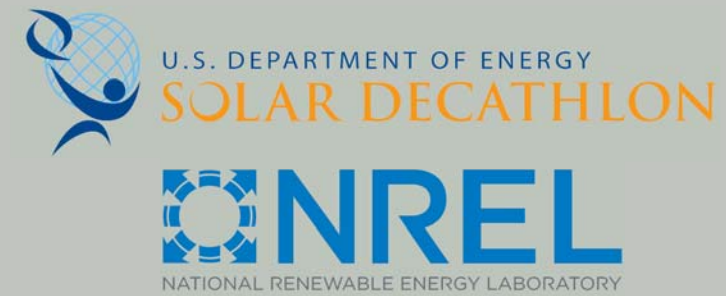
REFERENCE KEYNOTES

- 06 11 00: WOOD FRAMING
- 09 21 16: GYPSUM BOARD ASSEMBLIES
- 07 70 00: ROOF AND WALL SPECIALTIES AND ACCESSORIES (TAPES)
- 26 06 20.16: ELECTRICAL PANELBOARD SCHEDULE
- 26 24 16: PANELBOARDS



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REVISIONS

No.	Description	Date
1.	LABELING ADJUSTMENTS	4/1/13

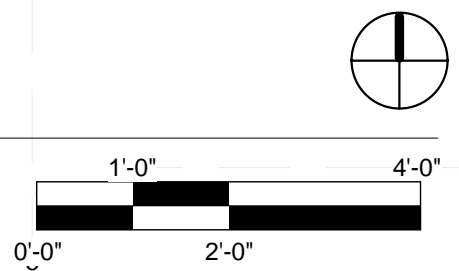
AS BUILT

DELTA T90

DIMENSIONED FLOOR PLAN

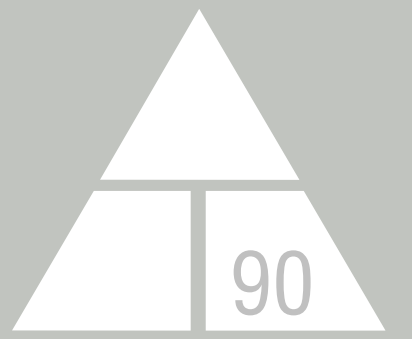
Date 2012/8/1
Drawn by Author

A1 DIMENSIONED FLOOR PLAN
3/8" = 1'-0"



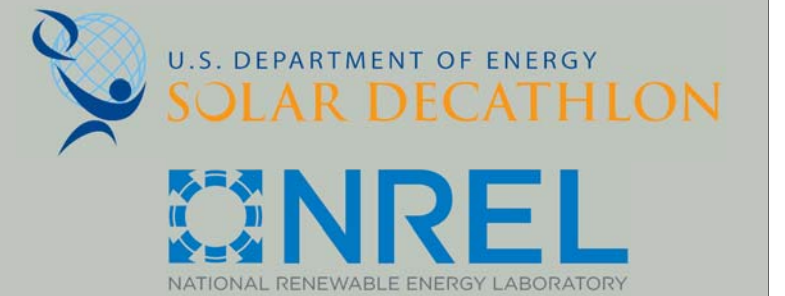
GENERAL SHEET NOTES

DECKS, RAILINGS, WATER TANKS AND HEAT PUMP OMITTED FOR CLARITY



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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

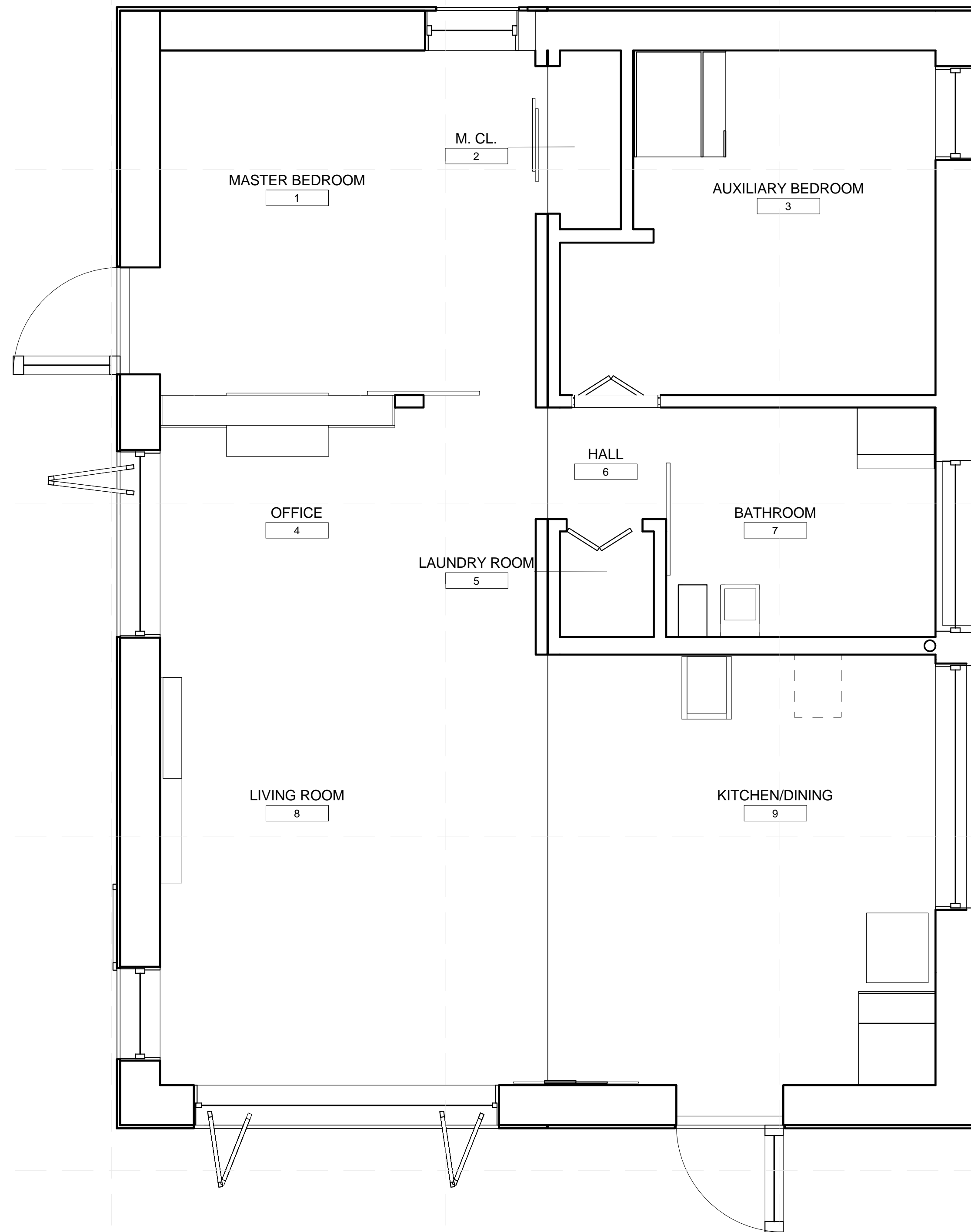
CONDITIONED SPACE PLAN

Date 2012/8/1
Drawn by Author

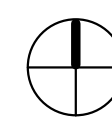
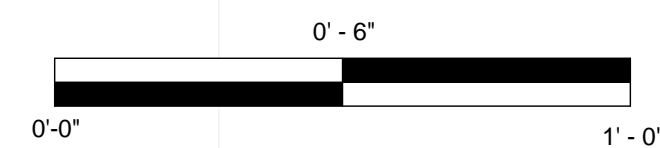
A-112

8/9/2013 11:47:57 PM

CONDITIONED AREA SCHEDULE		
NAME	AREA	TFA
AUXILIARY BEDROOM	118 SF	100%
BATHROOM	63 SF	100%
HALL	16 SF	100%
KITCHEN/DINING	174 SF	100%
LAUNDRY ROOM	10 SF	60%
LIVING ROOM	166 SF	100%
M. CL.	13 SF	60%
MASTER BEDROOM	132 SF	100%
OFFICE	98 SF	100%
Grand total	790 SF	



A1 TREATED FLOOR AREA
3/8" = 1'-0"



E
D
C
B
A

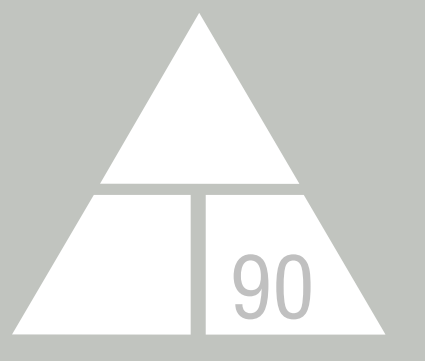
1 2 3 4 5 6 7

GENERAL SHEET NOTES

08 61 00: ROOF WINDOWS
 - WATER TANKS, TANKADE, KIOSK AND
 LANDSCAPING OMITTED FOR CLARITY
 - SEE A501 FOR WATER TANK SHADING DETAILS

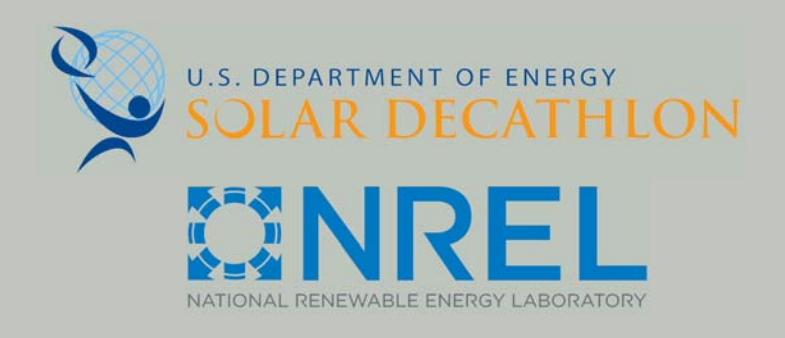
REFERENCE KEYNOTES

08 61 00: ROOF WINDOWS



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CONSULTANT: MATTHEW LUTZ
 CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date
1.	DRAWING ADJUSTMENTS	4/1/13

AS BUILT

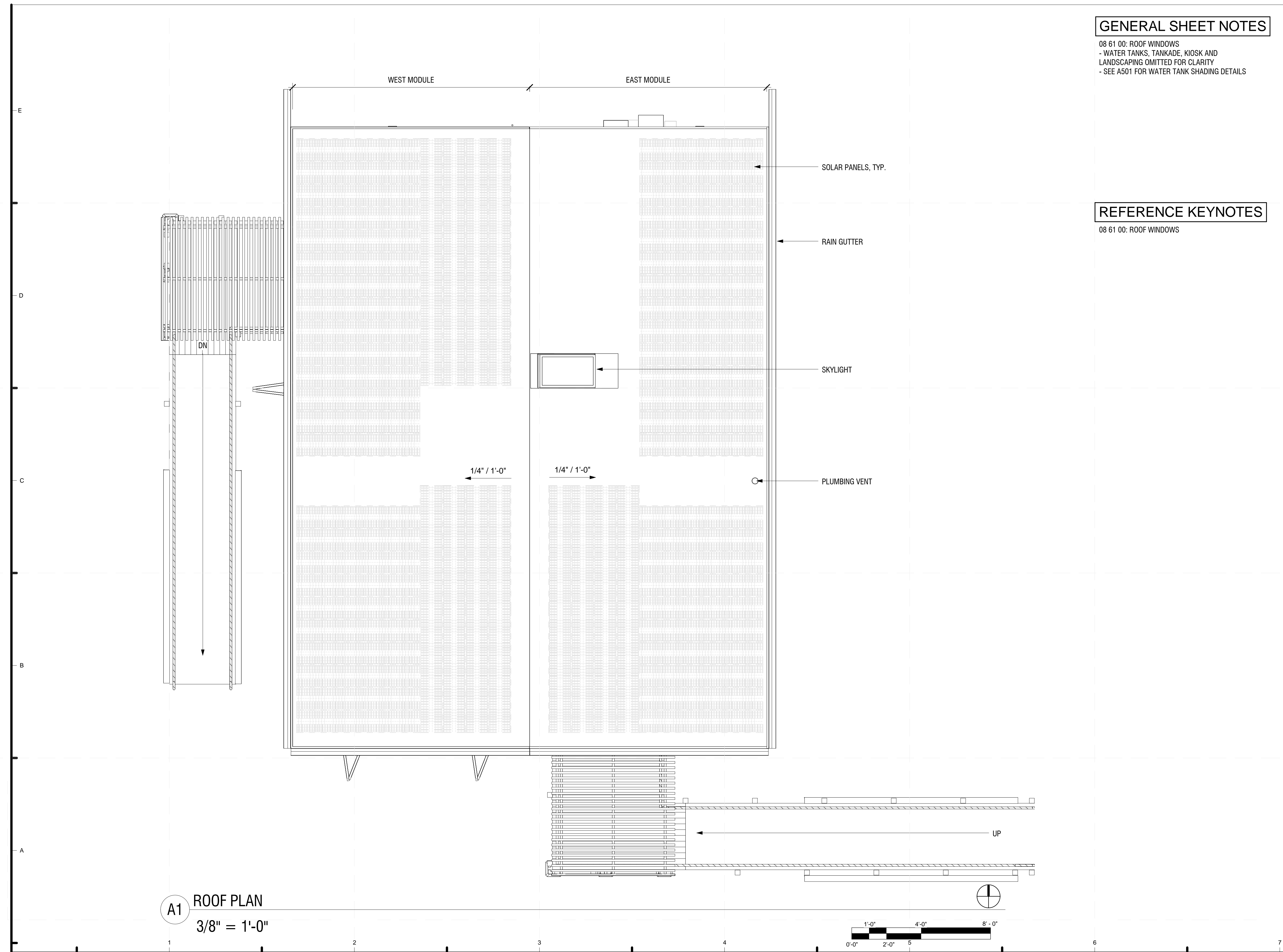
DELTA T90

ROOF PLAN

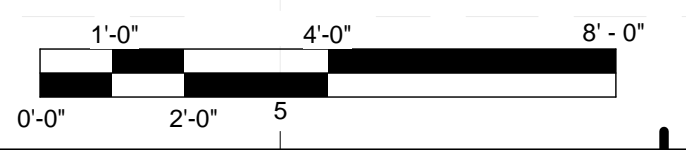
Date 2012/8/1
 Drawn by Author

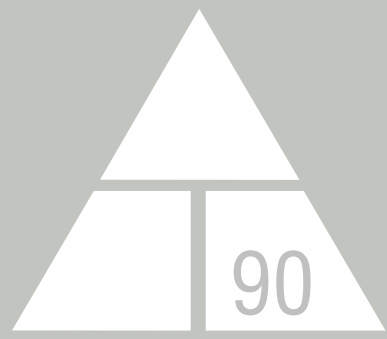
A-113

8/9/2013 11:46:08 PM



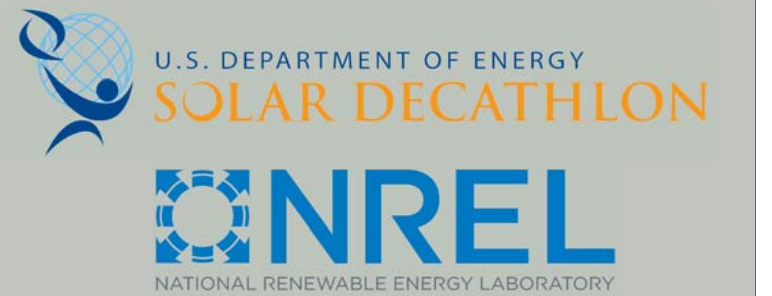
A1 ROOF PLAN
 3/8" = 1'-0"





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REVISIONS

No.	Description	Date
1.	LINEWEIGHT ADJUSTMENTS	4/1/13
2.	LABELING ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

WEST SHADING

Date 2012/8/1
Drawn by Author

A-114

8/9/2013 11:46:16 PM

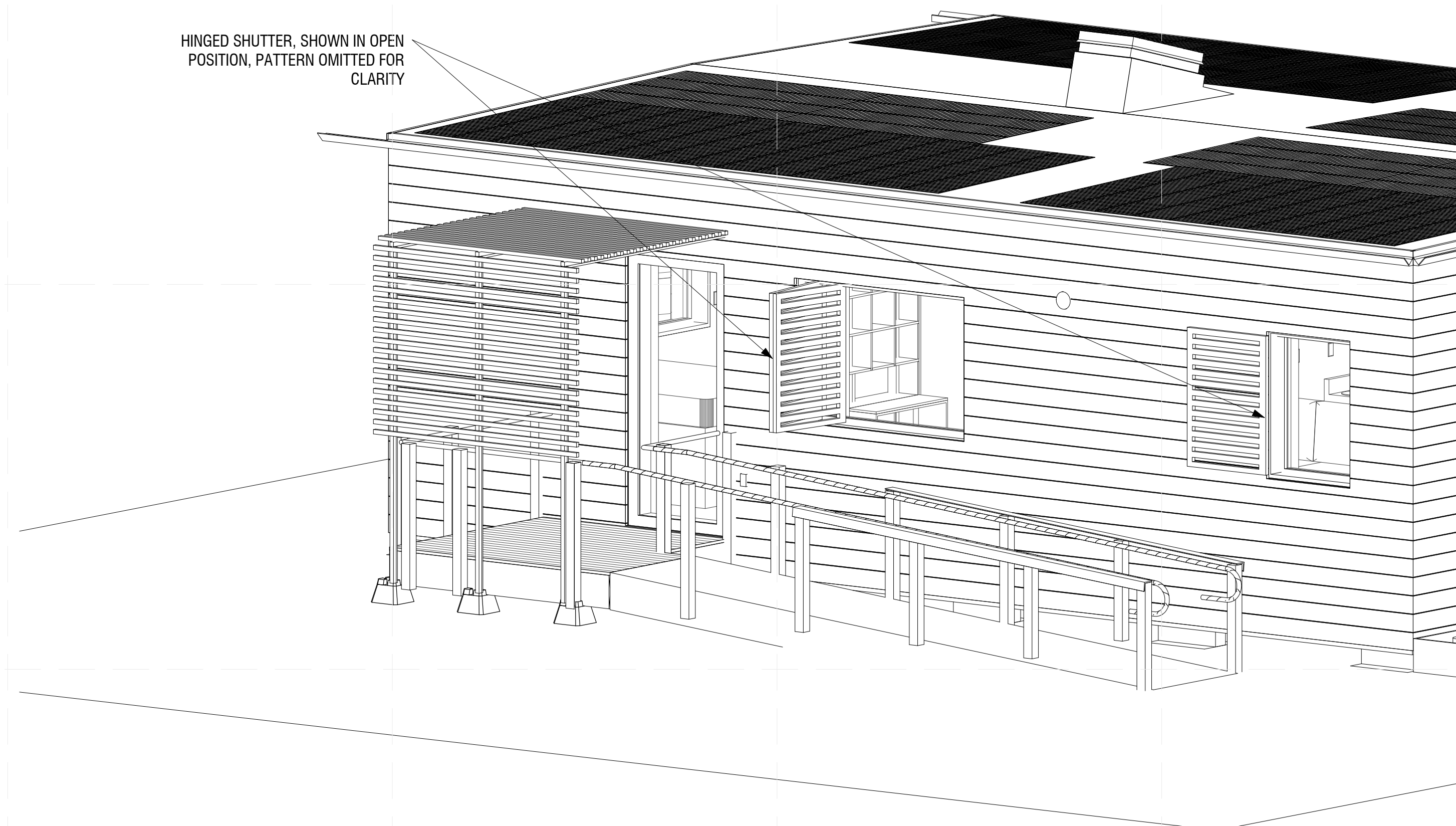
GENERAL SHEET NOTES

- WATER TANKS, TANKADE, AND LANDSCAPING
OMITTED FOR CLARITY

REFERENCE KEYNOTES

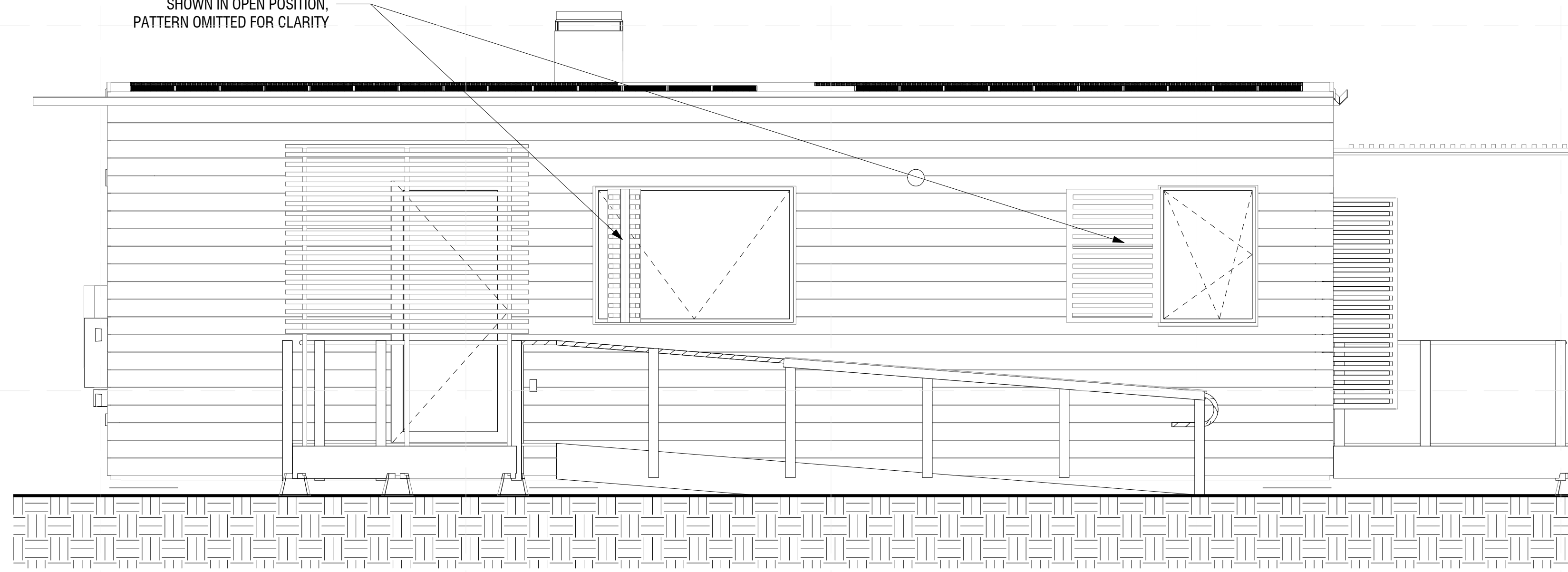
-48 14 00: SOLAR ENERGY ELECTRICAL POWER
GENERATION EQUIPMENT
-07 54 23: THERMOPLASTIC-POLYOLEFIN ROOFING
-06 15 13: WOOD FLOOR DECKING
-12 24 00: WINDOW SHADES
-07 60 00: FLASHING AND SHEET METALS
-06 15 13: EXTERIOR WOOD DECKING AND
FOUNDATION

HINGED SHUTTER, SHOWN IN OPEN
POSITION, PATTERN OMITTED FOR
CLARITY



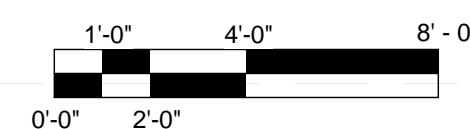
C1 WEST SHADING ISOMETRIC

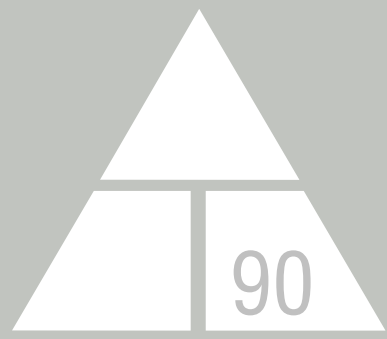
HINGED SHUTTER,
SHOWN IN OPEN POSITION,
PATTERN OMITTED FOR CLARITY



A1 WEST SHADING ELEVATION

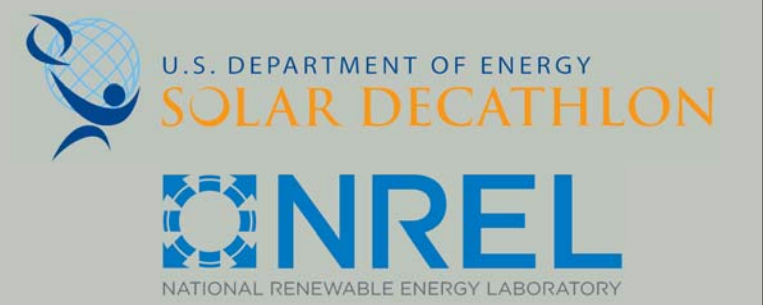
3/8" = 1'-0"





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REVISIONS

No.	Description	Date
1.	LABELING ADJUSTMENTS	4/1/13

AS BUILT

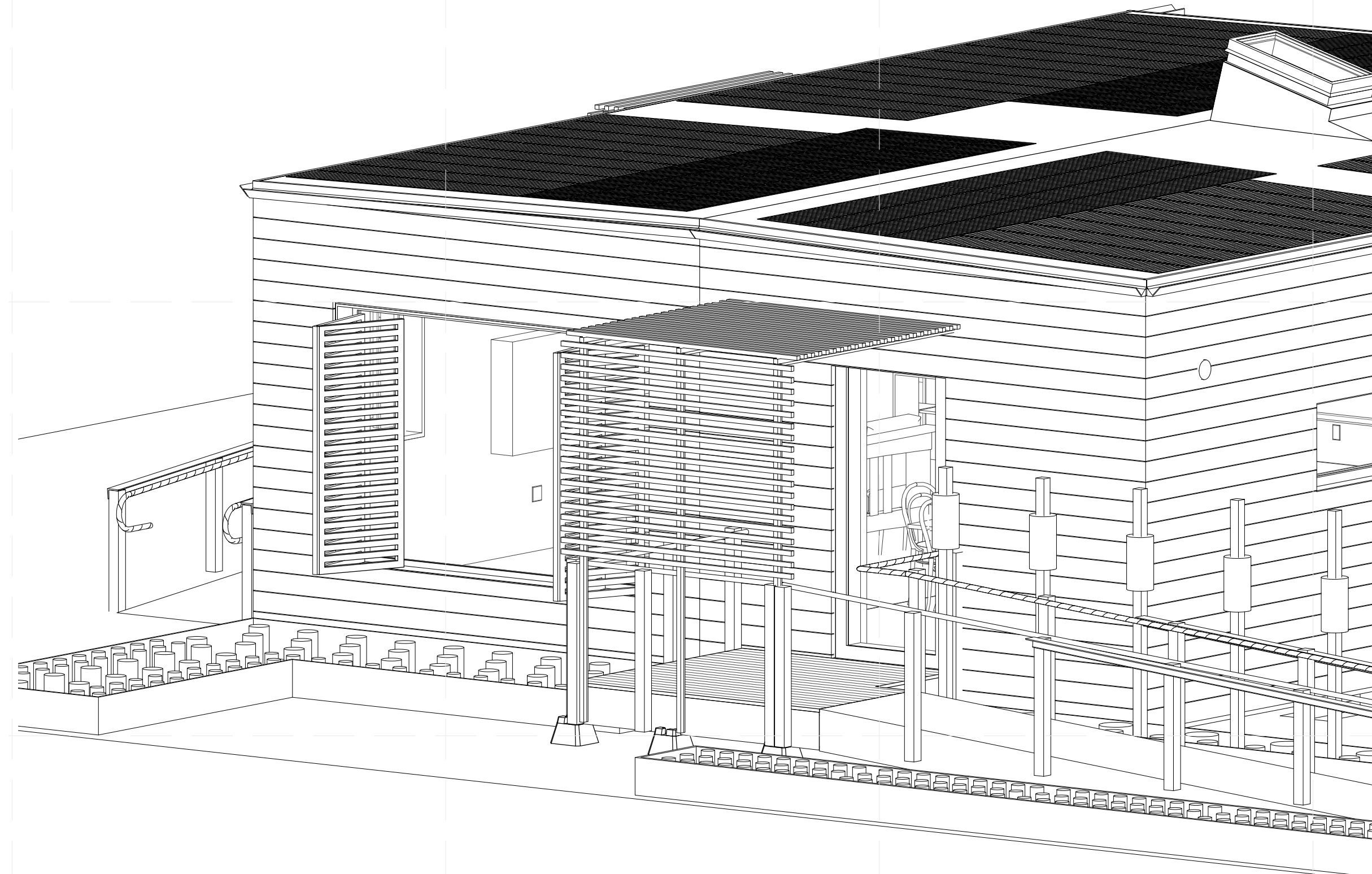
DELTA T90

SOUTH SHADING

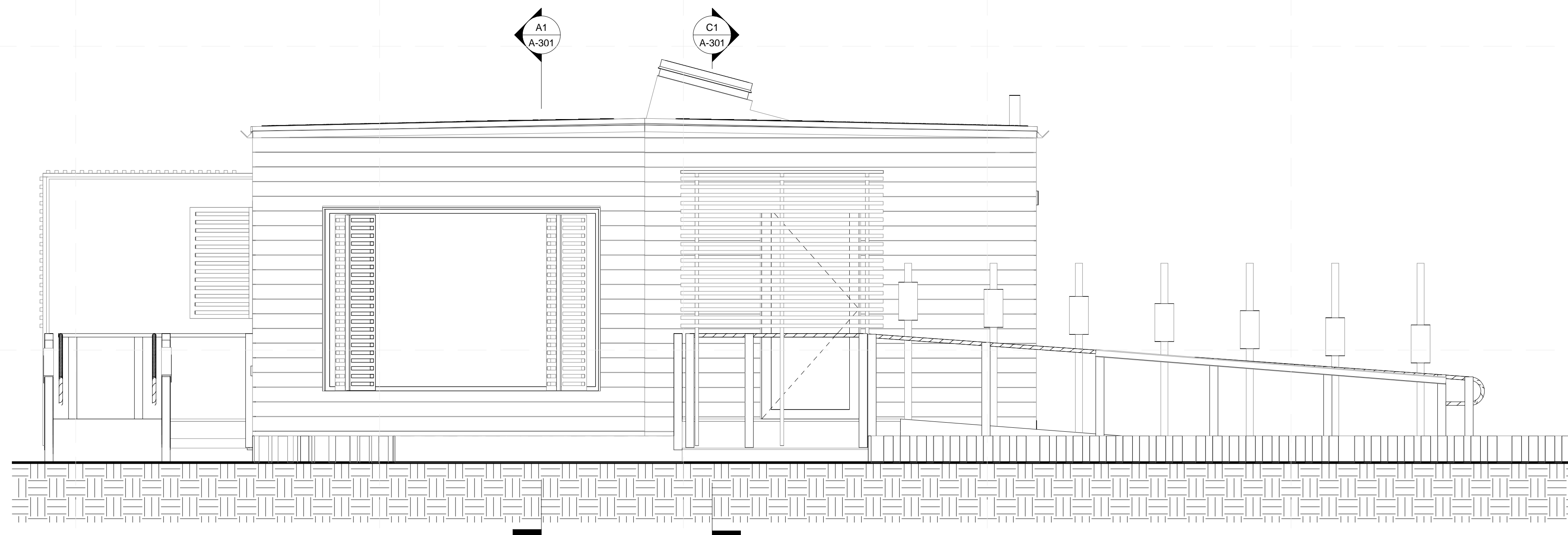
Date 2012/8/1
Drawn by Author

A-115

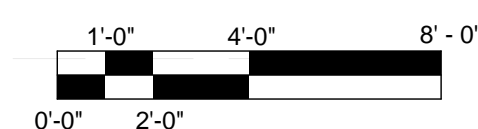
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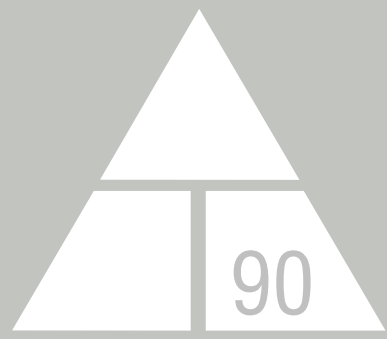


C1 SOUTH SHADING ISOMETRIC



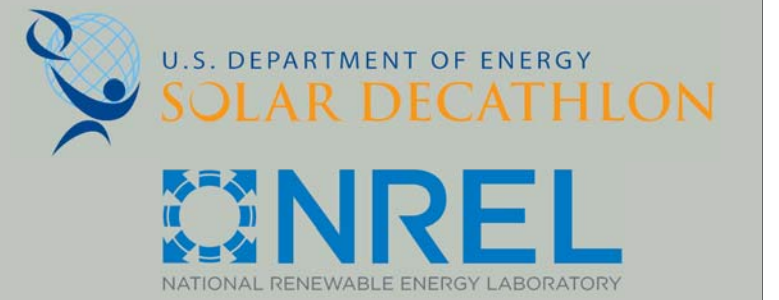
A1 SOUTH SHADING ELEVATION
3/8" = 1'-0"





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REVISIONS

No.	Description	Date
1.	LINEWEIGHT ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

REFLECTED CEILING PLAN
(RCP)

Date 2012/8/1
Drawn by Author

A-121

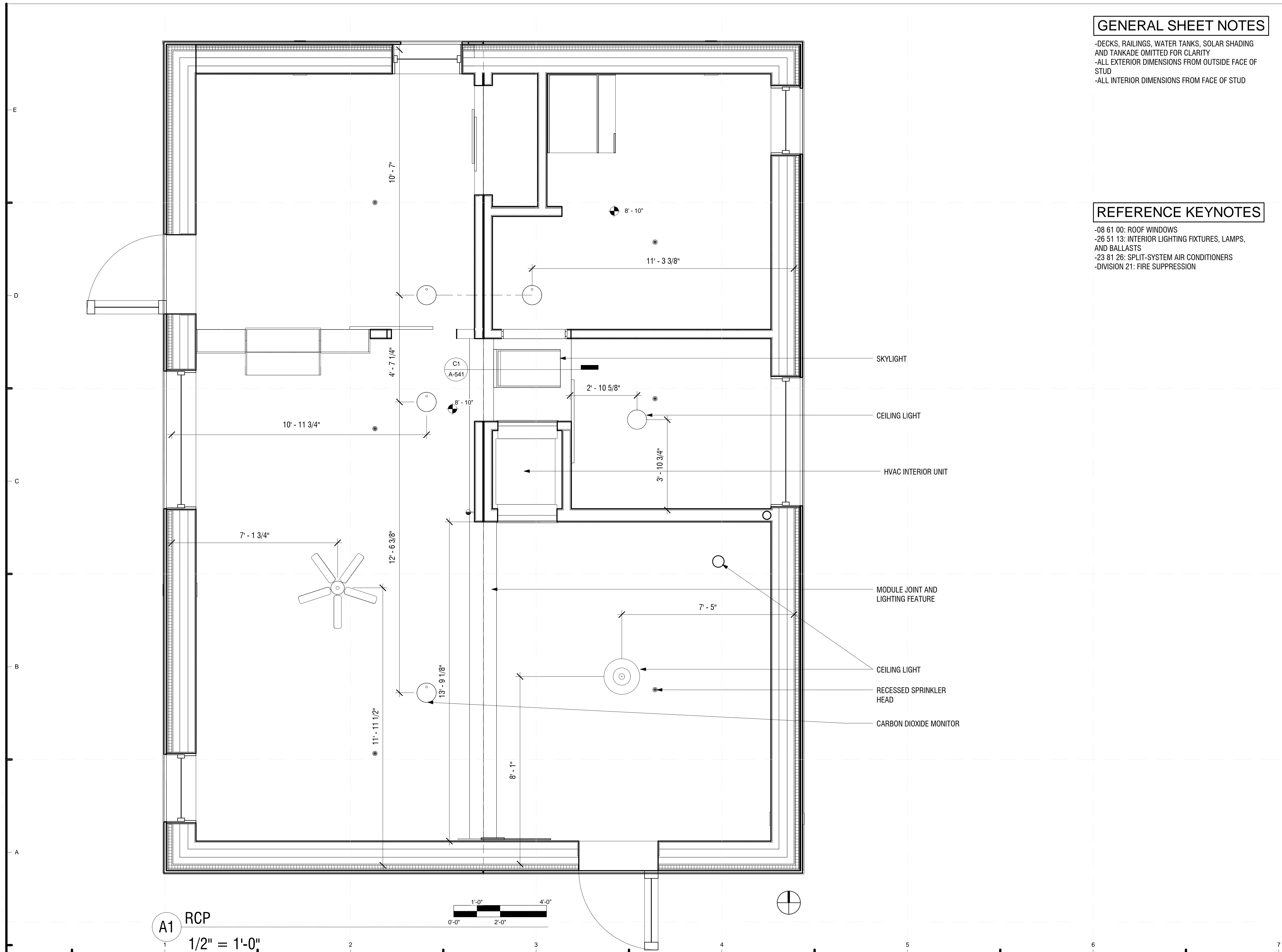
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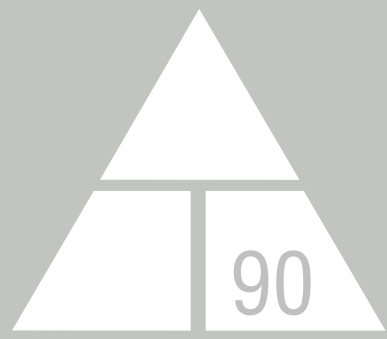
GENERAL SHEET NOTES

- DECKS, RAILINGS, WATER TANKS, SOLAR SHADING AND TANKADE OMITTED FOR CLARITY
- ALL EXTERIOR DIMENSIONS FROM OUTSIDE FACE OF STUD
- ALL INTERIOR DIMENSIONS FROM FACE OF STUD

REFERENCE KEYNOTES

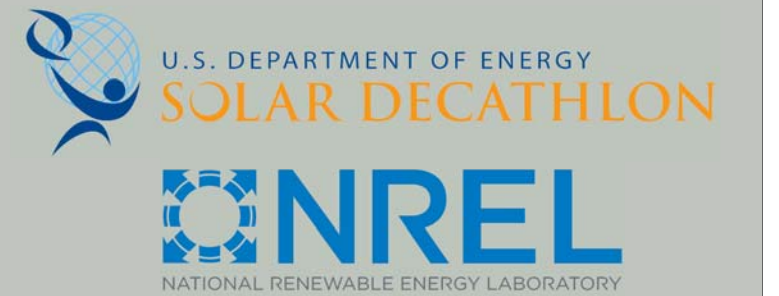
- 08 61 00: ROOF WINDOWS
- 26 51 13: INTERIOR LIGHTING FIXTURES, LAMPS, AND BALLASTS
- 23 81 26: SPLIT-SYSTEM AIR CONDITIONERS
- DIVISION 21: FIRE SUPPRESSION





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REVISIONS

No.	Description	Date
1.	LINEWEIGHT ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

EXTERIOR ELEVATIONS

Date 12/2012/8/1
Drawn by Author

A-211

8/9/2013 11:46:32 PM

GENERAL SHEET NOTES

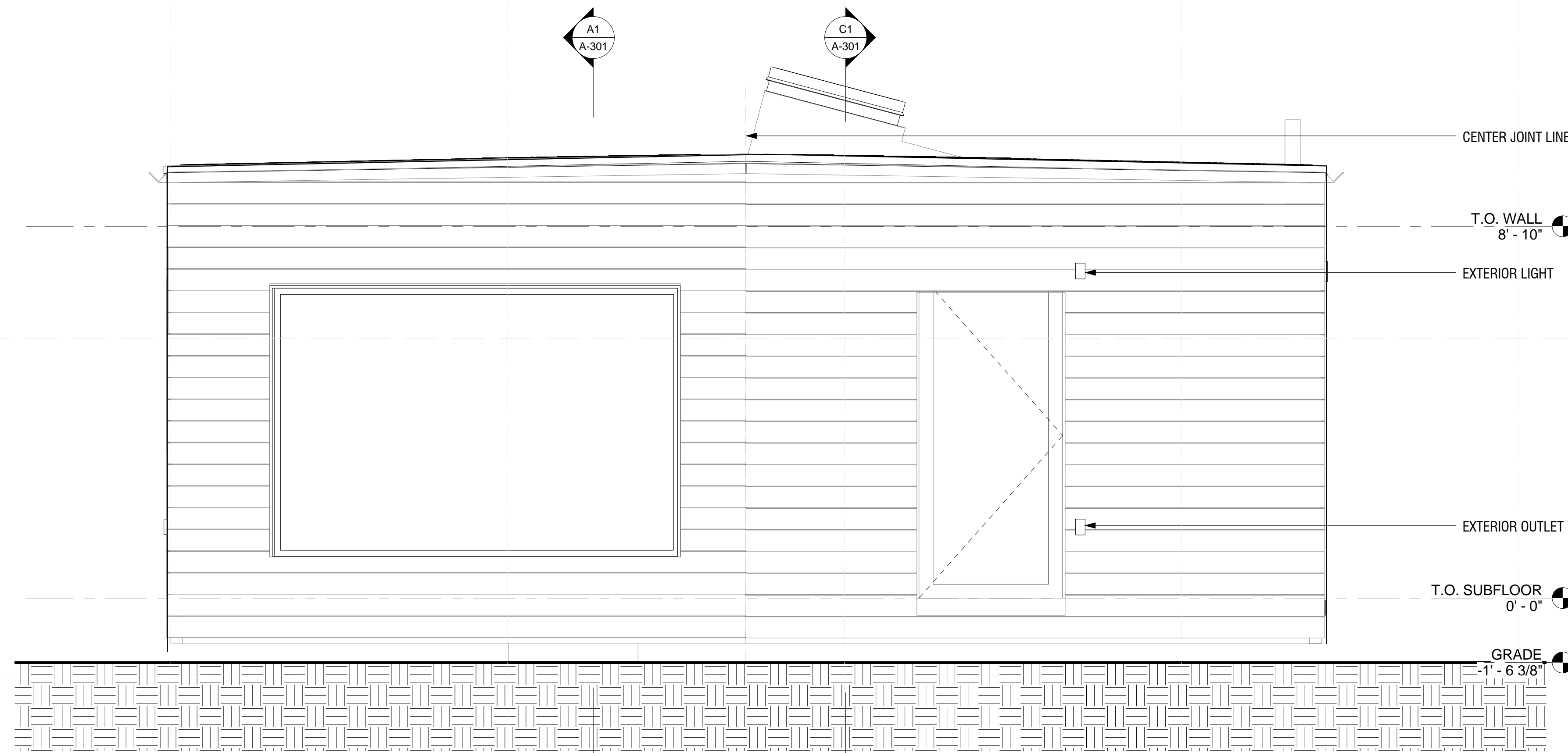
RAILS, DECKS, SOLAR ENVELOPE, TANKADE, AND SHADING DEVICES ARE OMITTED FOR CLARITY

REFERENCE KEYNOTES

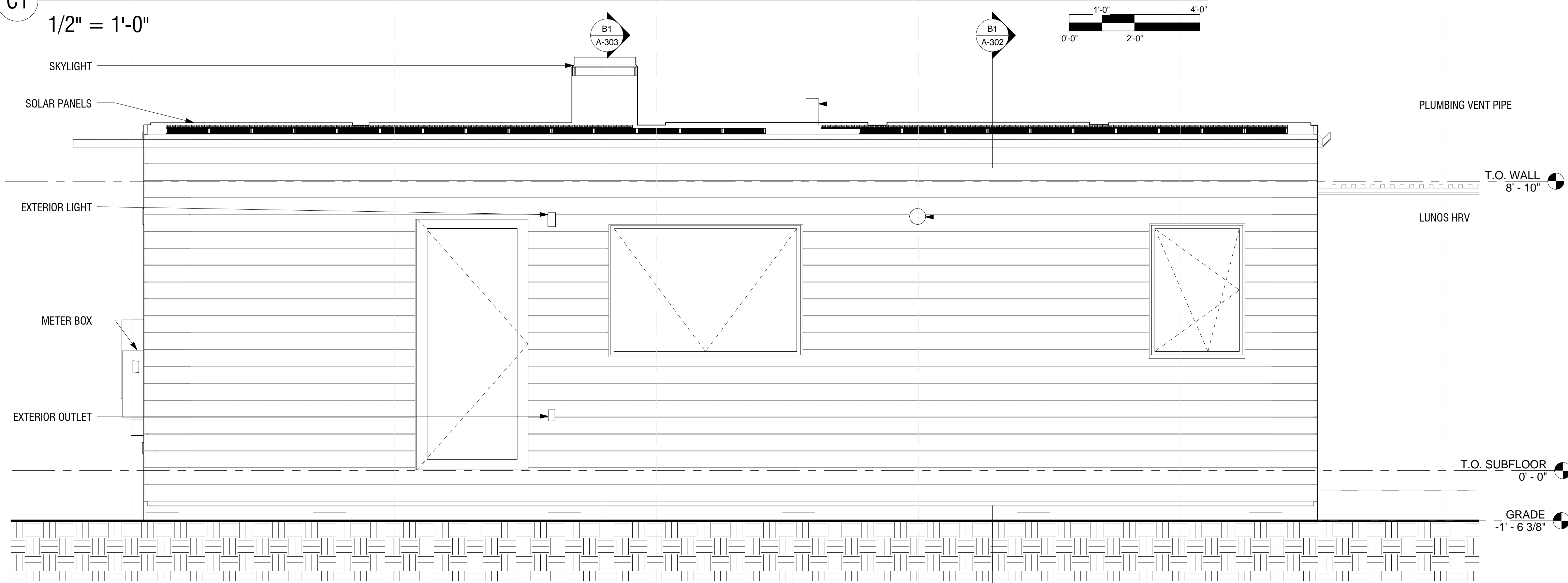
- 26 05 33: RACEWAY AND BOXES FOR ELECTRICAL
- 05 51 13: METAL RAILINGS
- 06 15 13: WOOD FLOOR DECKING
- 23 72 23: PACKAGED AIR-TO-AIR ENERGY RECOVERY SYSTEMS
- 08 61 00: ROOF WINDOWS
- 48 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT
- 06 15 13: WOOD DECKING AND FOUNDATION

SHEET KEYNOTES

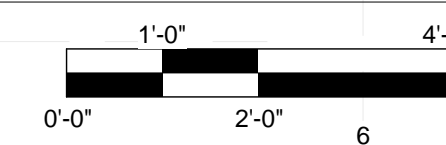
- SEE L-104 FOR EXTENDED RAMP CONTINGENCY PLAN
- WATER SHADING, WATER TANKS, WOOD PLANTER BOX OMITTED FOR CLARITY

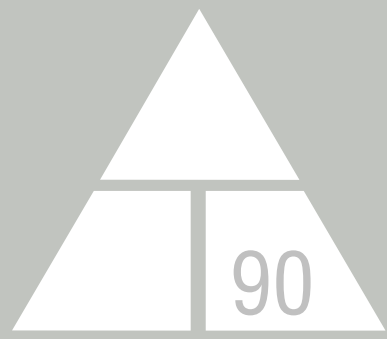


C1 SOUTH CARDINAL ELEVATION
1/2" = 1'-0"



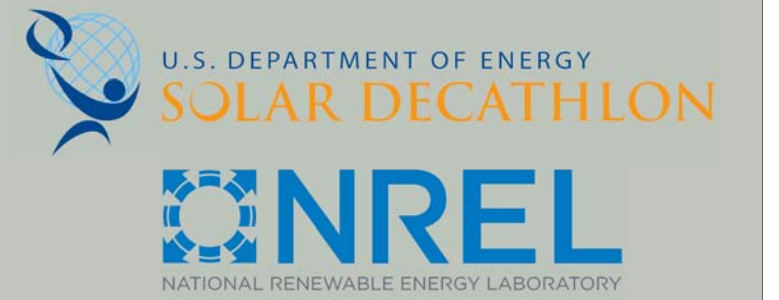
A1 WEST CARDINAL ELEVATION
1/2" = 1'-0"





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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

EXTERIOR ELEVATIONS

Date 2012/8/1
Drawn by Author

A-212

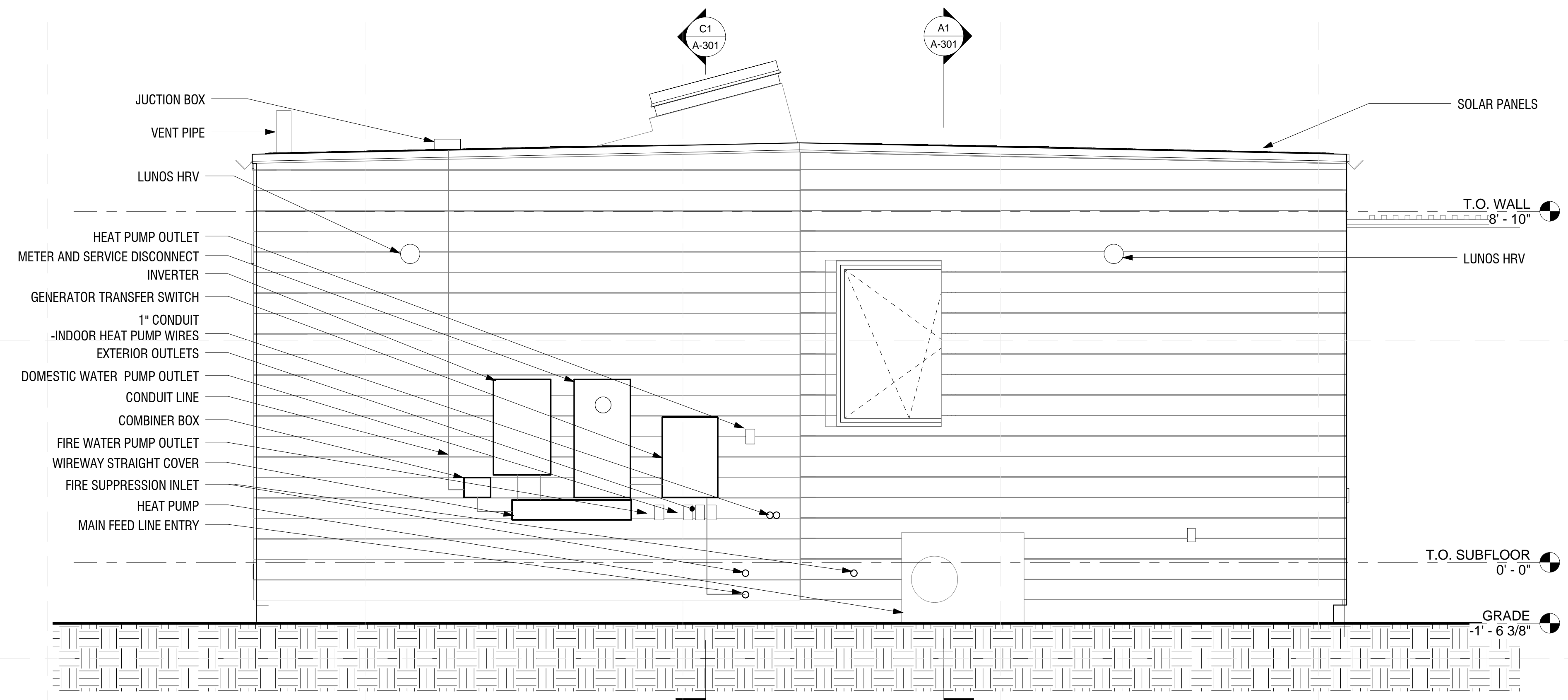
8/9/2013 11:46:36 PM

GENERAL SHEET NOTES

RAILS, DECKS, SOLAR ENVELOPE, TANKADE AND SHADING DEVICES ARE OMITTED FOR CLARITY

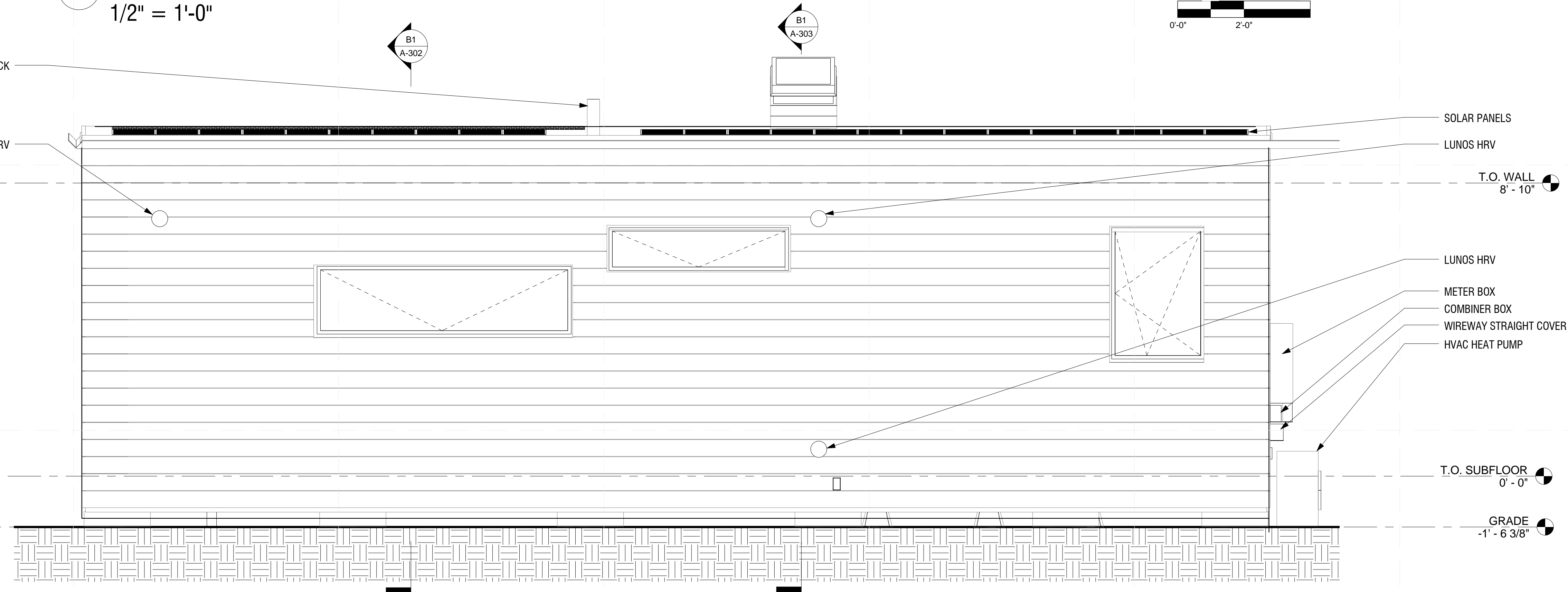
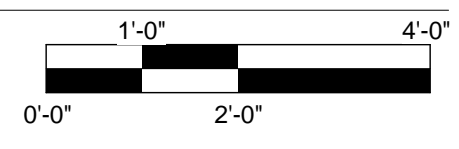
REFERENCE KEYNOTES

- 26 05 33: RACEWAY AND BOXES FOR ELECTRICAL
- 05 51 13: METAL RAILINGS
- 06 15 13: WOOD FLOOR DECKING
- 23 72 23: PACKAGED AIR-TO-AIR ENERGY RECOVERY SYSTEMS
- 08 61 00: ROOF WINDOWS
- 48 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT
- 41 65 16: MOBILE GENERATORS
- 23 81 26: SPLIT-SYSTEM AIR CONDITIONERS



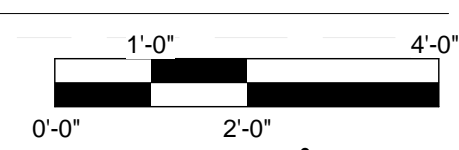
C1 NORTH CARDINAL ELEVATION

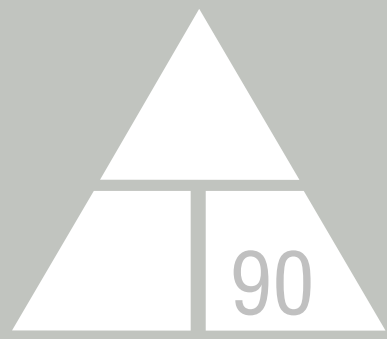
1/2" = 1'-0"



A1 EAST CARDINAL ELEVATION

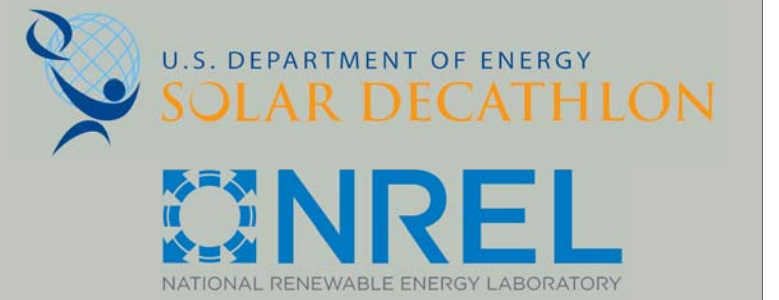
1/2" = 1'-0"





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REVISIONS

No.	Description	Date
1.	LINWEIGHT ADJUSTMENTS	4/1/13
2.	DRAWING ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

LONGITUDINAL BUILDING
SECTIONS

Date 2012/8/1
Drawn by Author

A-301

8/9/2013 11:46:56 PM

GENERAL SHEET NOTES

- WATER TANKS, WATER SHADING DEVICES OMITTED FOR CLARITY

REFERENCE KEYNOTES

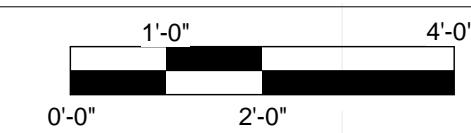
-46 00 00: WATER AND WASTEWATER EQUIPMENT
-26 05 33: RACEWAY AND BOXES FOR ELECTRICAL

T.O. WALL 8'-10"

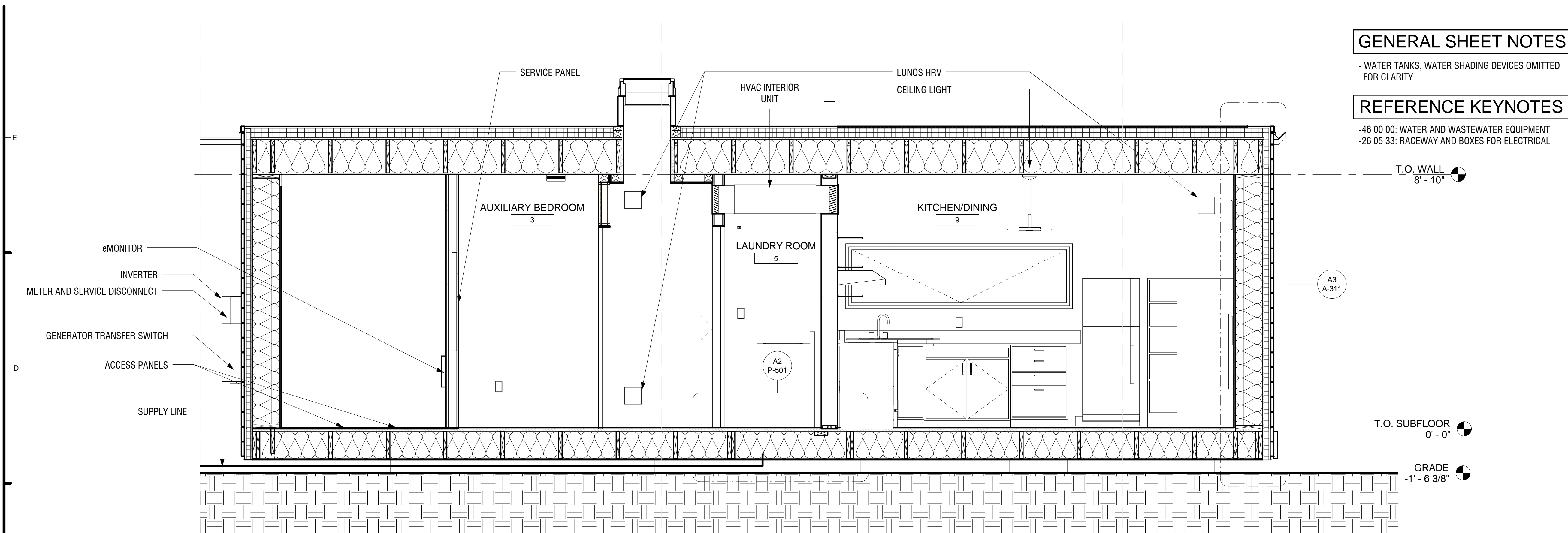
A3
A-311

T.O. SUBFLOOR 0'-0"

GRADE -1'-6 3/8"



C1 LONG AXIS SECTION N/S
1/2" = 1'-0"



LUNOS HRV

TOP OF JOISTS 9'-11 1/4"
TOP OF BATH WINDOW 8'-8 3/4"

T.O. WALL 8'-10"

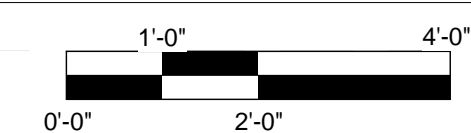
A5
A-541

INTERIOR SWITCH

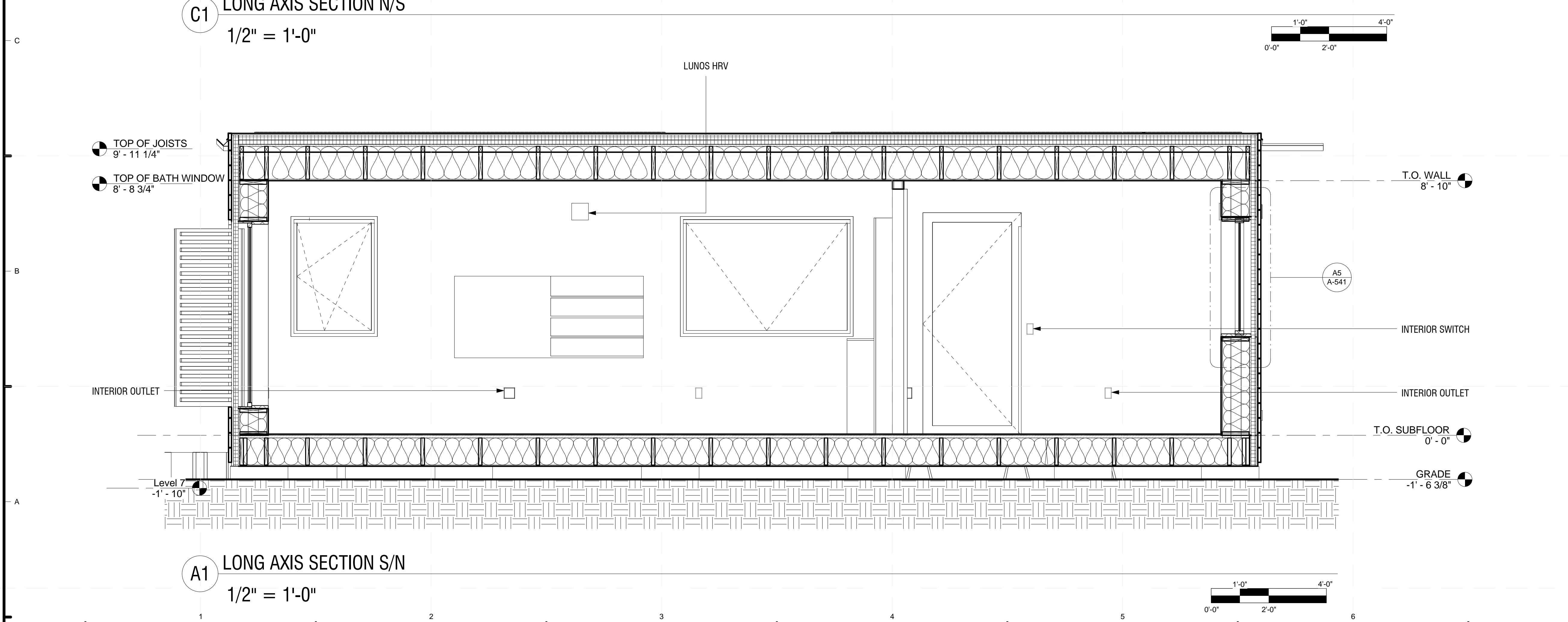
INTERIOR OUTLET

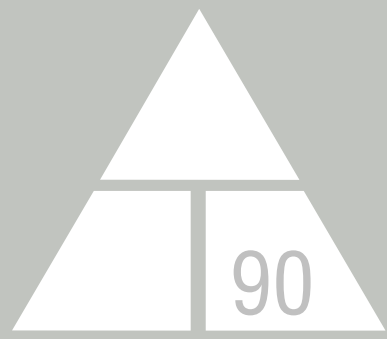
T.O. SUBFLOOR 0'-0"

GRADE -1'-6 3/8"



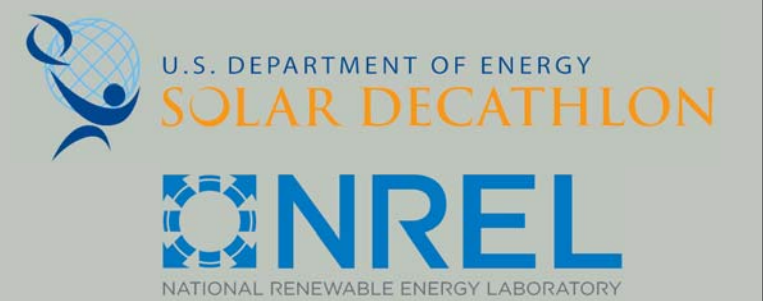
A1 LONG AXIS SECTION S/N
1/2" = 1'-0"





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REVISIONS

No.	Description	Date
1.	REVEILING HIDDEN ELEMENTS	4/1/13

AS BUILT

DELTA T90

TRANSVERSE BUILDING SECTION

Date 2012/8/1
Drawn by Author

A-302

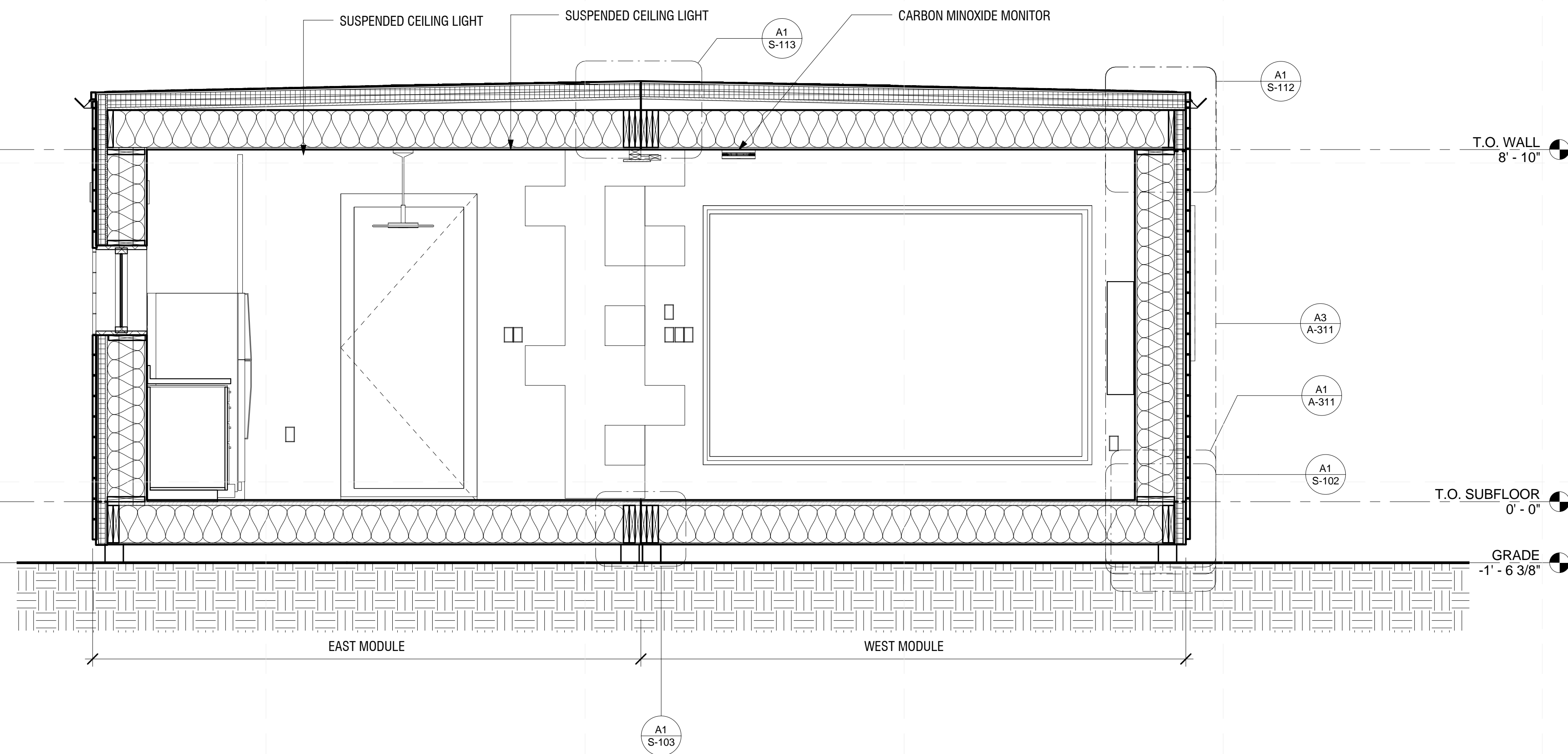
8/9/2013 11:46:59 PM

GENERAL SHEET NOTES

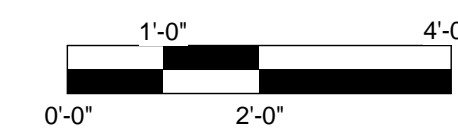
- DECKS, RAILINGS AND KIOSK OMITTED FOR CLARITY

REFERENCE KEYNOTES

-26 05 33: RACEWAY AND BOXES FOR ELECTRICAL
-26 51 13: INTERIOR LIGHTING FIXTURES, LAMPS, AND BALLASTS
-28 31 46: SMOKE DETECTION SENSORS



B1 Section West-East
1/2" = 1'-0"



E
D
C
B
A

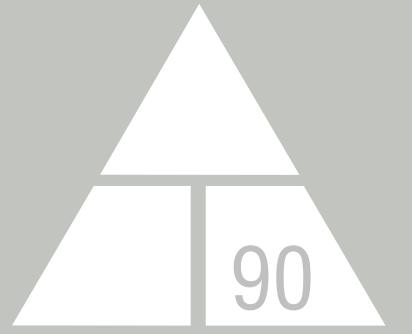
1 2 3 4 5 6 7

GENERAL SHEET NOTES

- DECKS, RAILINGS AND KIOSK OMITTED FOR CLARITY

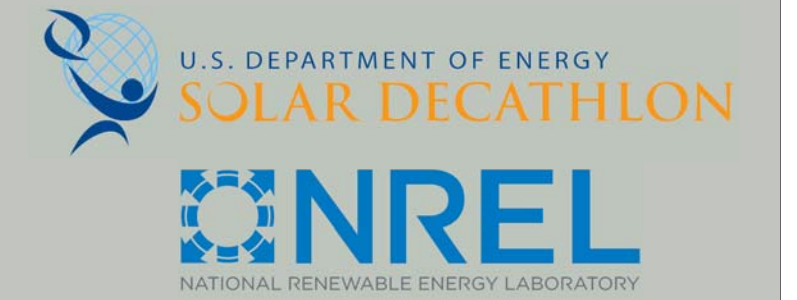
REFERENCE KEYNOTES

- 23 81 26: SPLIT-SYSTEM AIR CONDITIONERS
- 08 61 00: ROOF WINDOWS
- 28 31 46: SMOKE DETECTION SENSORS
- 26 24 16: PANELBOARDS



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REVISIONS

No.	Description	Date
1.	LINEWEIGHT ADJUSTMENTS	4/1/13

AS BUILT

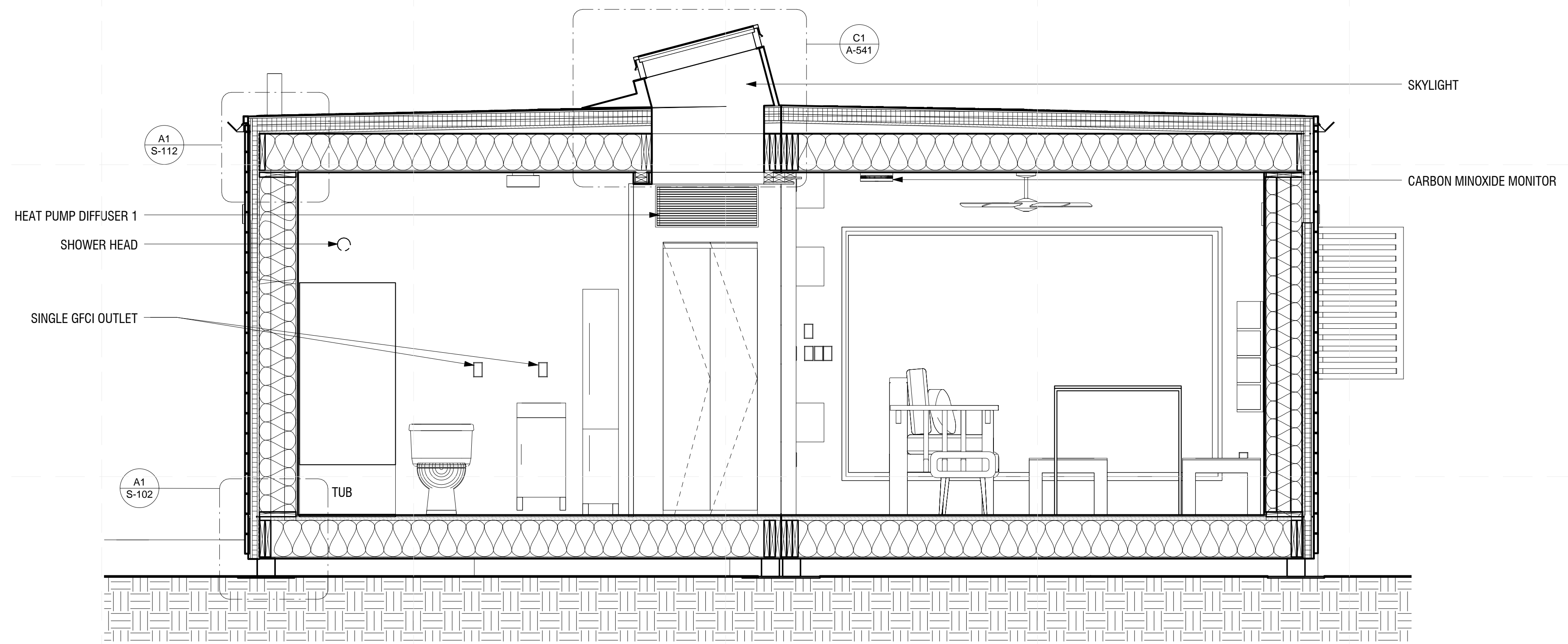
DELTA T90

TRANSVERSE BUILDING SECTIONS

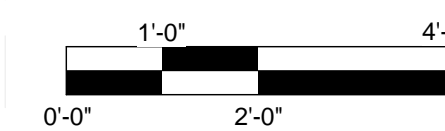
Date 2012/8/1
Drawn by Author

A-303

8/9/2013 11:49:02 PM

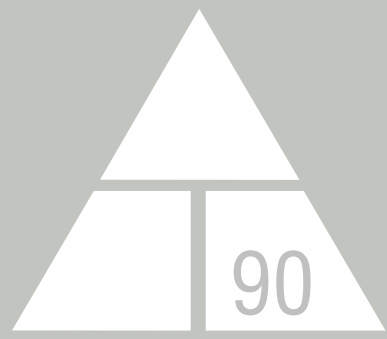


B1 SECTION EAST-WEST
1/2" = 1'-0"



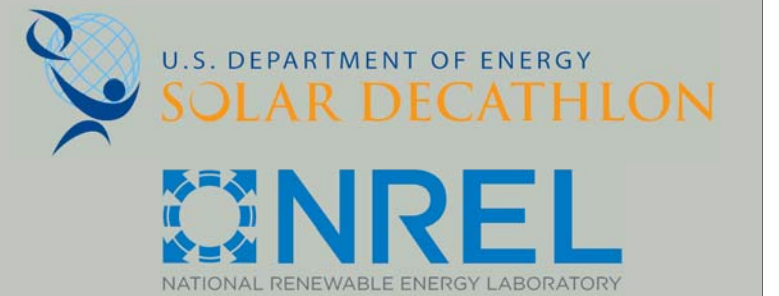
E
D
C
B
A

1 2 3 4 5 6 7



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CONSULTANT: MATTHEW LUTZ
CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

EXTERIOR WALL SECTION

Date 2012/8/1
Drawn by Author

A-311

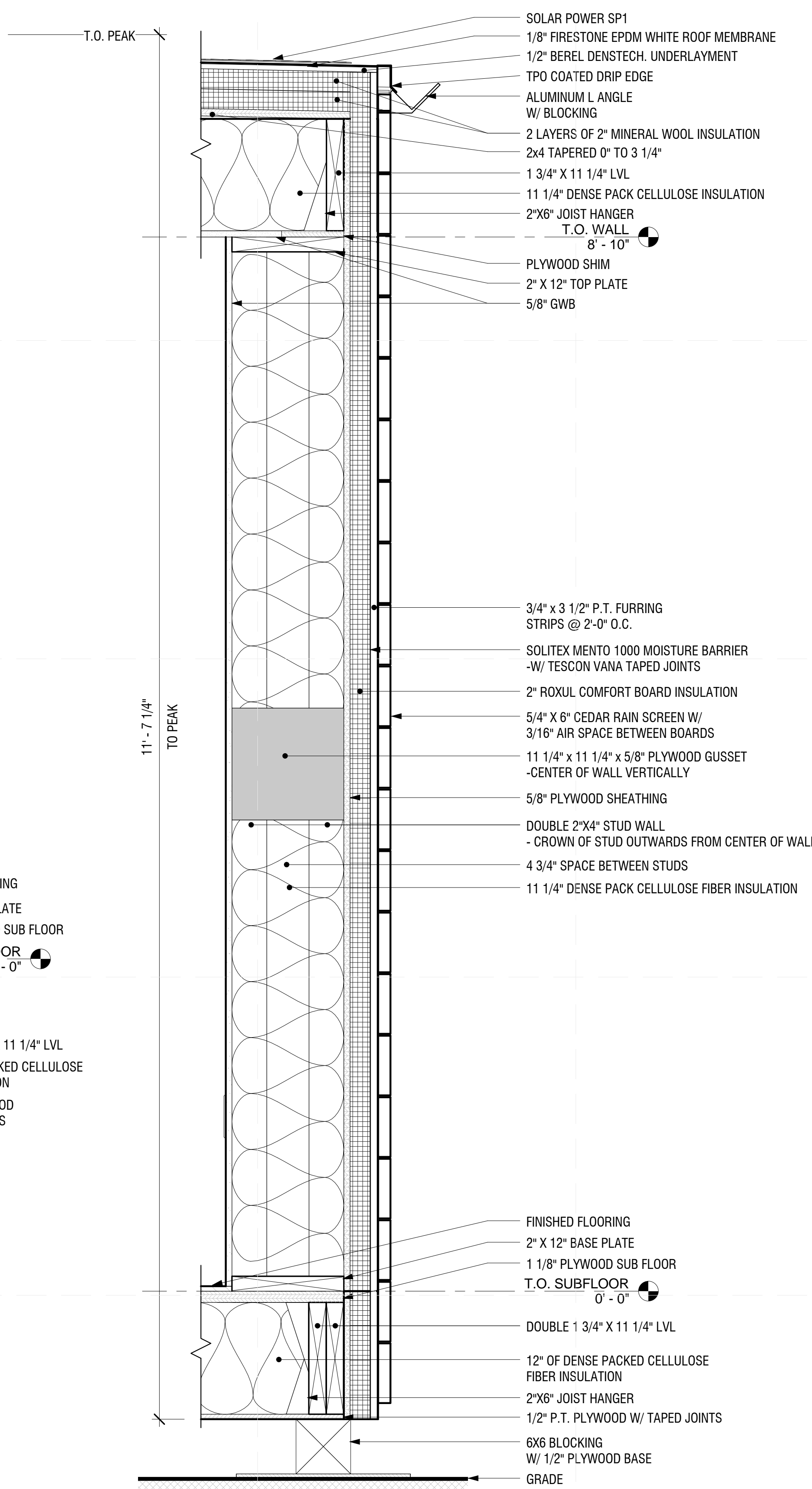
8/9/2013 11:49:03 PM

GENERAL SHEET NOTES

- TO ACCOMMODATE FOR UP TO 18" OF GRADE CHANGE
- THE 2X6 BLOCKING 1/2" PLYWOOD PATTERN WILL BE REPEATED AS NEEDED.
- WINDOW SHADING IS OMITTED FOR CLARITY

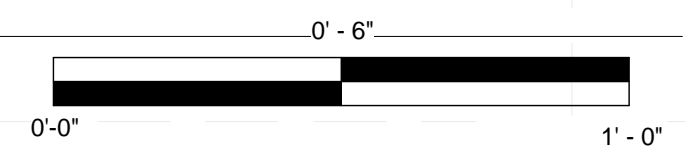
REFERENCE KEYNOTES

- 48 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT
- 07 54 23: THERMOPLASTIC-POLYOLEFIN ROOFING
- 07 21 13.19: MINERAL BOARD INSULATION
- 06 11 00: WOOD FRAMING
- 07 21 00: THERMAL INSULATION
- 09 21 16: GYPSUM BOARD ASSEMBLIES
- 07 13 00: SHEETING WATERPROOFING
- 07 46 23: WOOD SIDING
- 26 05 33: RACEWAY AND BOXES FOR ELECTRICAL



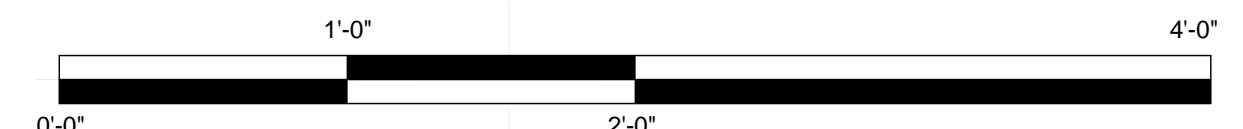
A1 18" GRADE CHANGE FOUNDATION SECTION

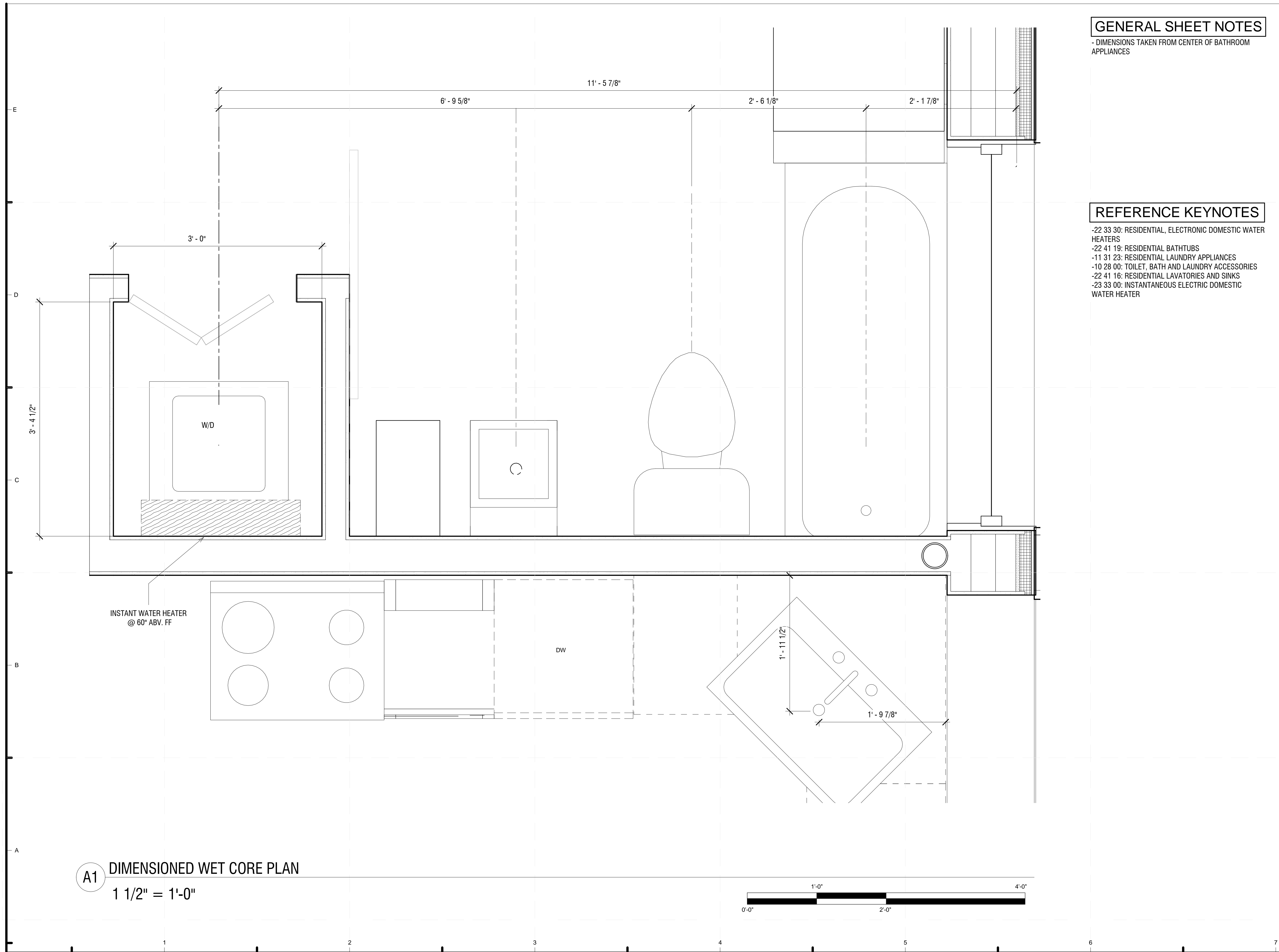
3" = 1'-0"



A3 EAST WALL SECTION

1 1/2" = 1'-0"





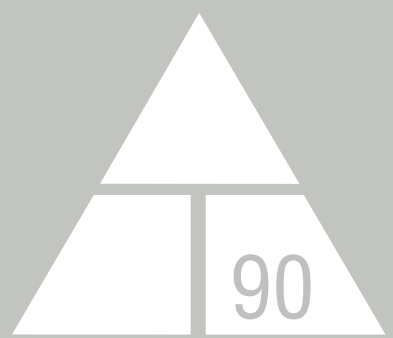
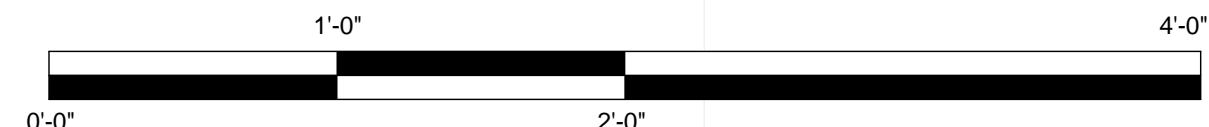
GENERAL SHEET NOTES

- DIMENSIONS TAKEN FROM CENTER OF BATHROOM APPLIANCES

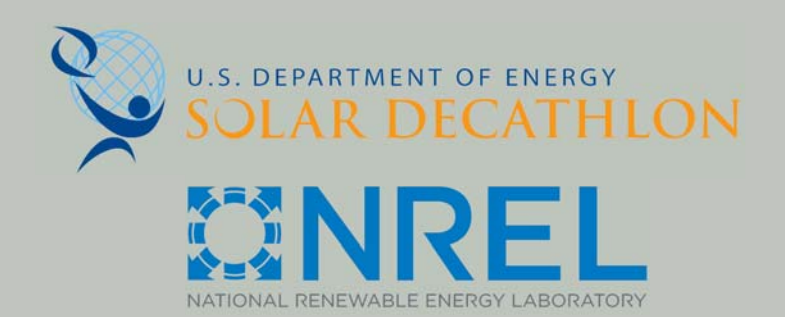
REFERENCE KEYNOTES

- 22 33 30: RESIDENTIAL, ELECTRONIC DOMESTIC WATER HEATERS
- 22 41 19: RESIDENTIAL BATHTUBS
- 11 31 23: RESIDENTIAL LAUNDRY APPLIANCES
- 10 28 00: TOILET, BATH AND LAUNDRY ACCESSORIES
- 22 41 16: RESIDENTIAL LAVATORIES AND SINKS
- 23 33 00: INSTANTANEOUS ELECTRIC DOMESTIC WATER HEATER

A1 DIMENSIONED WET CORE PLAN
1 1/2" = 1'-0"



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CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

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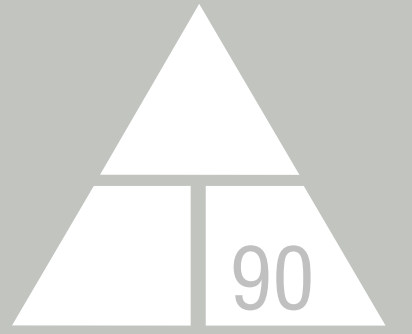
DELTA T90

ENLARGED KITCHEN & BATH PLAN

Date 2012/8/1
Drawn by Author

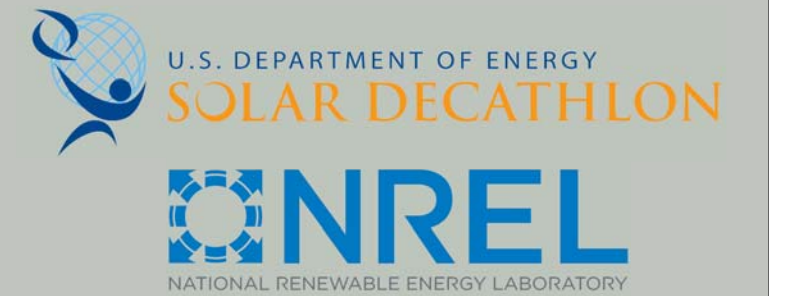
A-401

GENERAL SHEET NOTES



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REVISIONS

No.	Description	Date

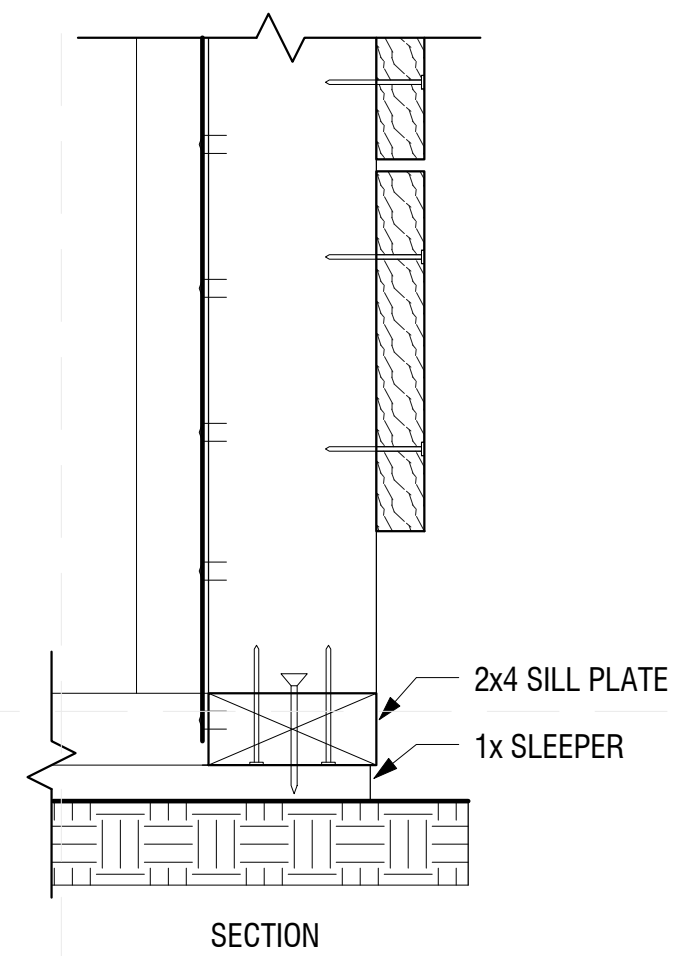
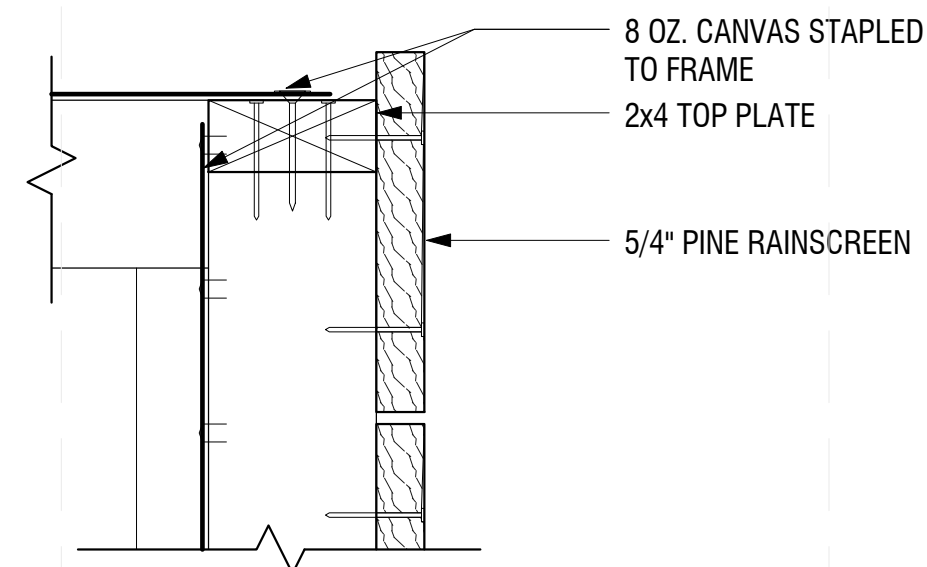
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DELTA T90

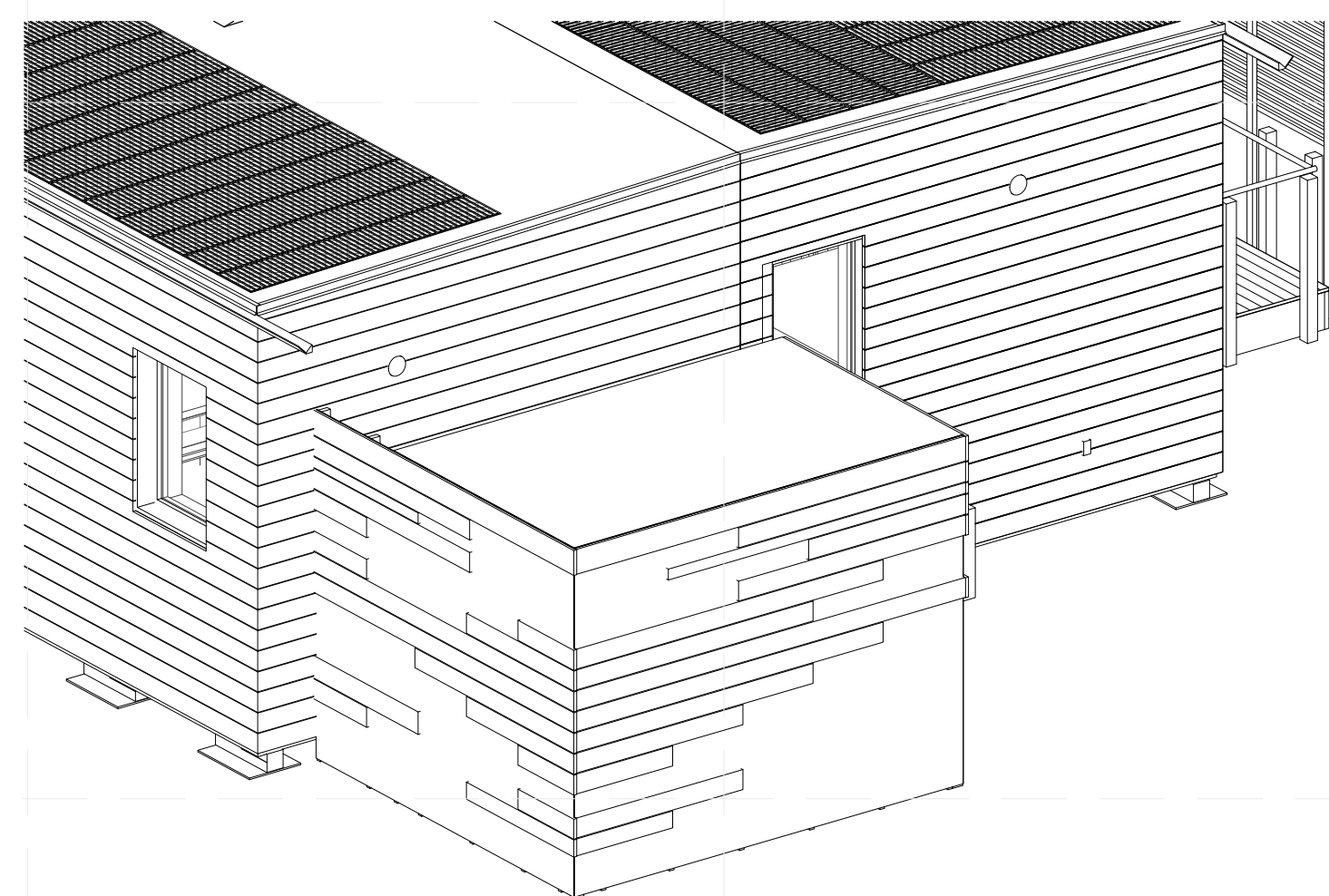
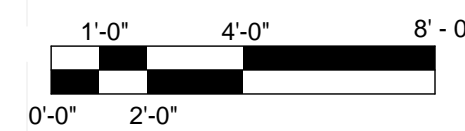
WATER SHADING DETAILS

Date 2012/8/1
Drawn by Author

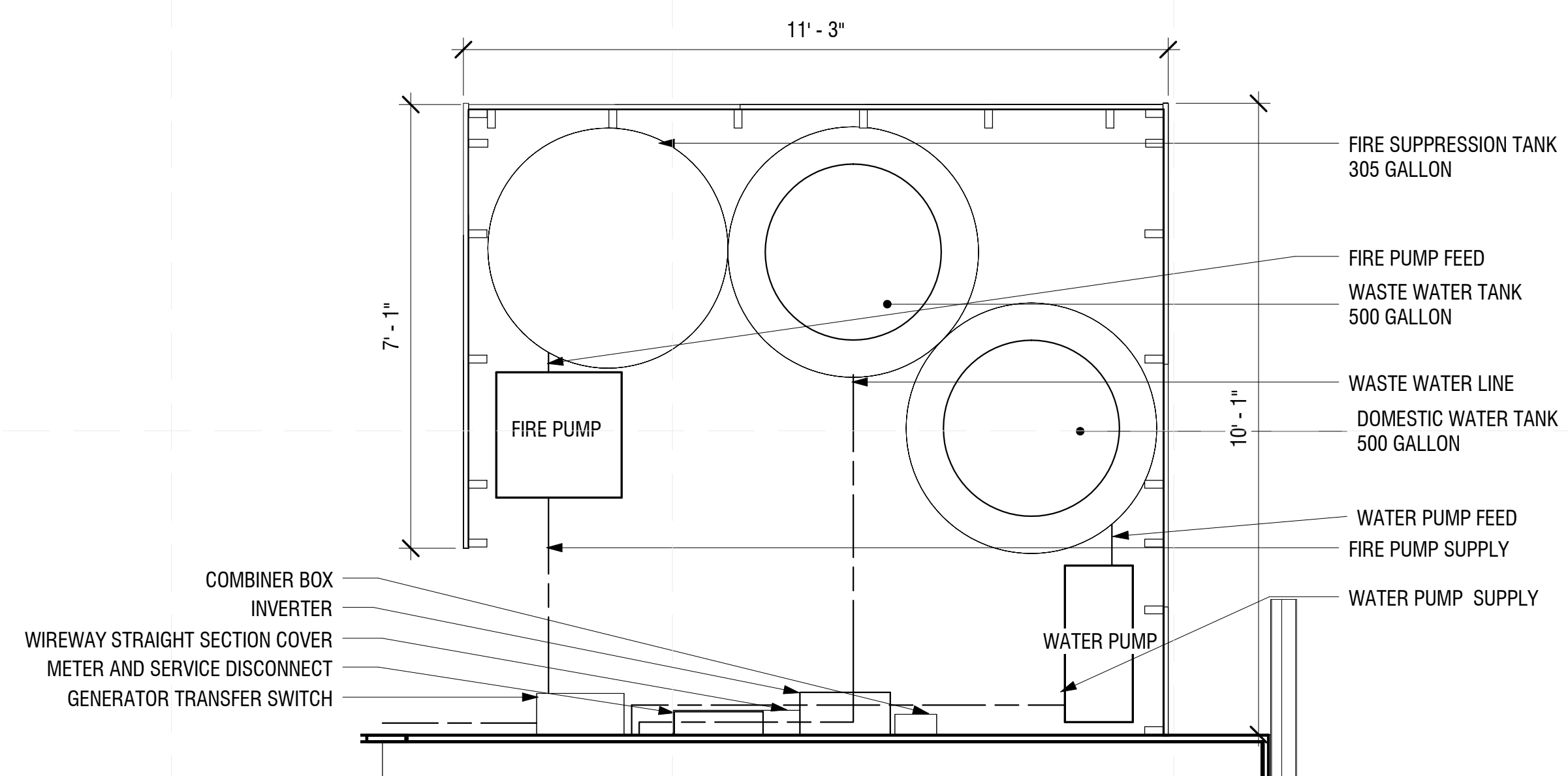
A-501



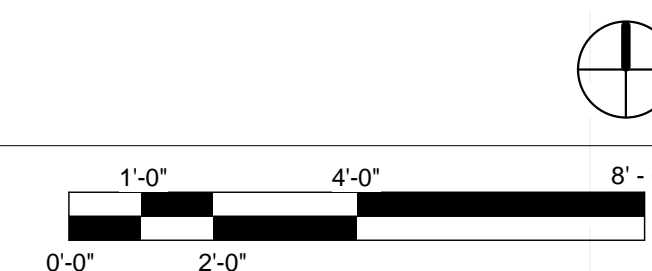
C1 WATER SHADING DETAILS
3" = 1'-0"



A1 WATER SHADING ISOMETRIC



A4 WATER SHADING PLAN
1/2" = 1'-0"



REVISIONS

No.	Description	Date
1.	DOOR JAMB DETAIL UPDATES	4/1/13

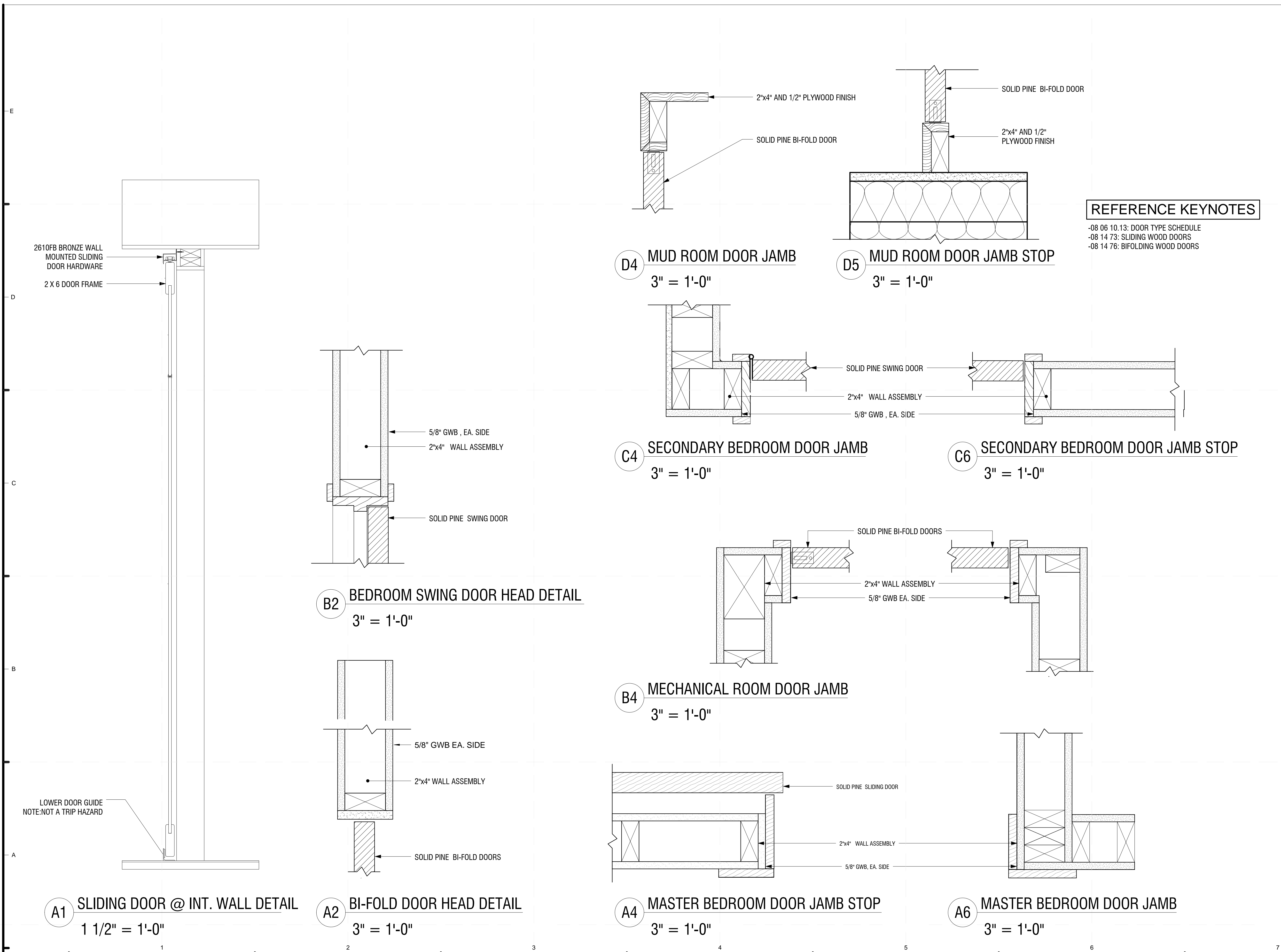
AS BUILT

DELTA T90

INTERIOR DOOR JAMB DETAILS

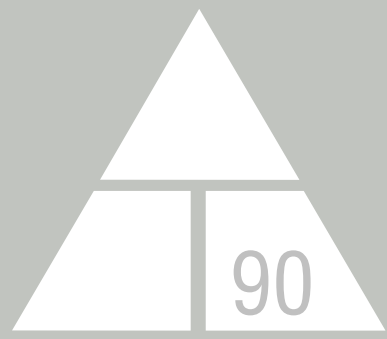
Date 12/8/1
Drawn by Author

A-531



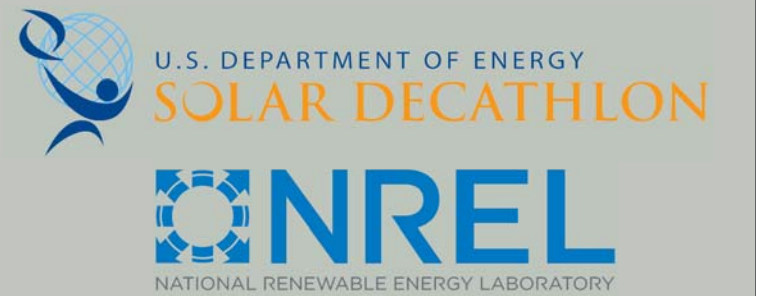
REFERENCE KEYNOTES

- 48 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT
- 07 54 23: THERMOPLASTIC-POLYOLEFIN ROOFING
- 07 21 13.19: MINERAL BOARD INSULATION
- 06 11 00: WOOD FRAMING
- 07 21 00: THERMAL INSULATION
- 09 21 16: GYPSUM BOARD ASSEMBLIES
- 07 13 00: SHEETING WATERPROOFING
- 07 46 23: WOOD SIDING
- 26 05 33: RACEWAY AND BOXES FOR ELECTRICAL
- 08 50 00: WINDOWS
- 07 22 00: ROOF AND DECK INSULATION
- 08 14 73: SLIDING WOOD DOORS



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No.	Description	Date

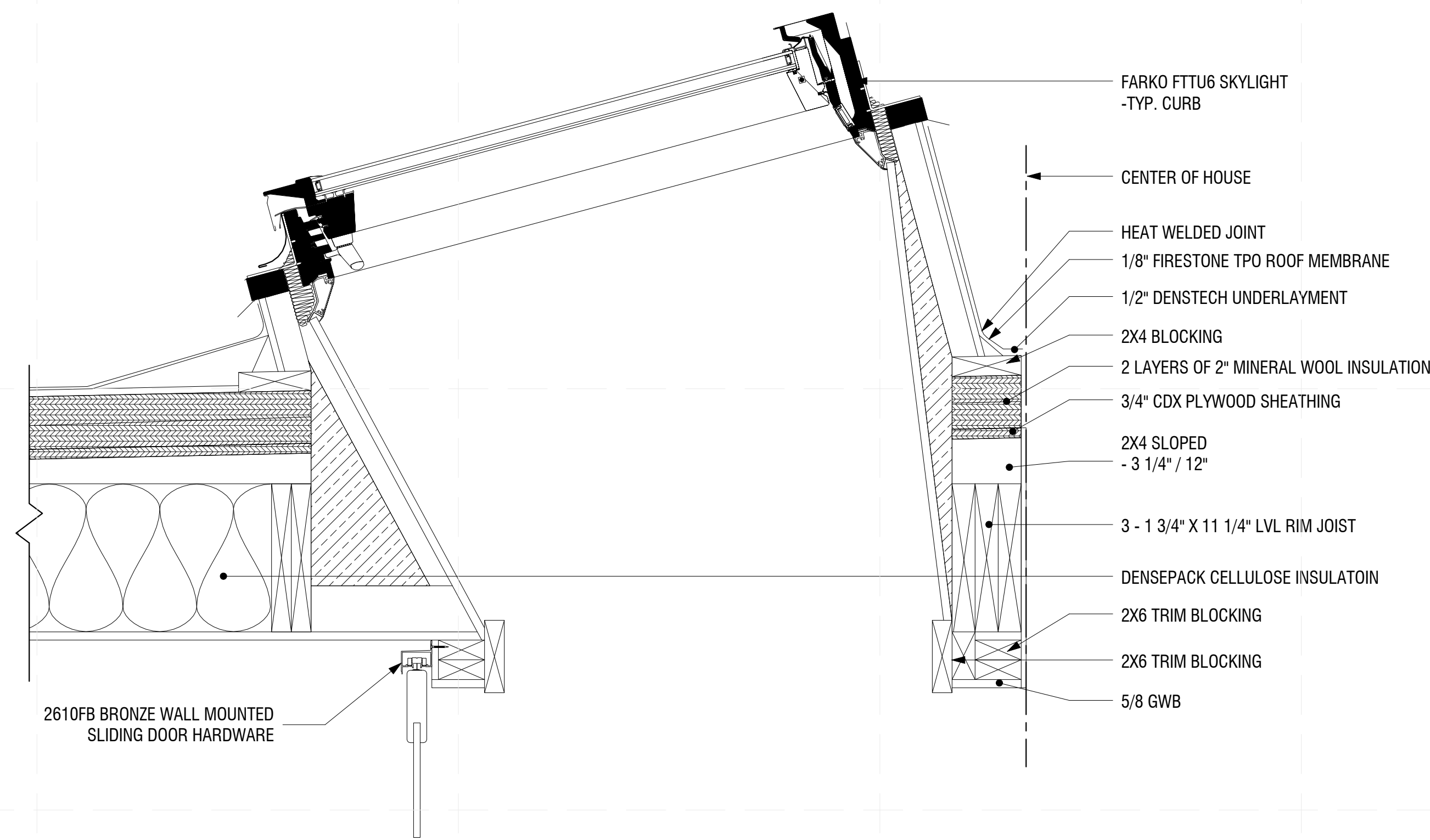
AS BUILT

DELTA T90

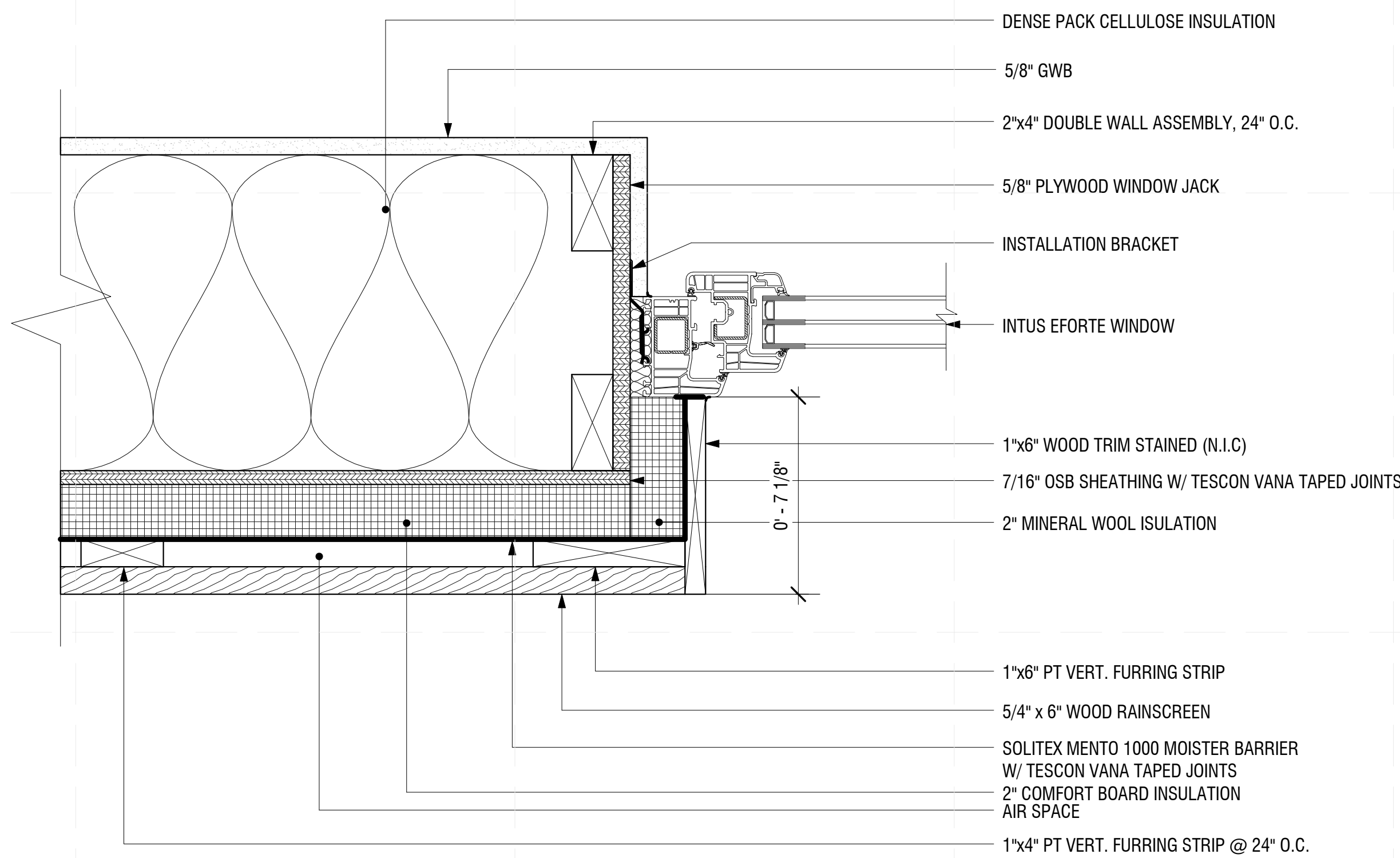
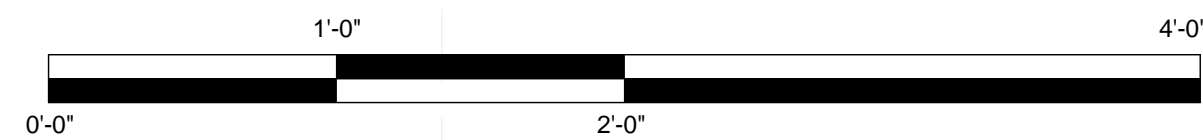
WINDOW DETAILS

Date 2012/8/1
Drawn by Author

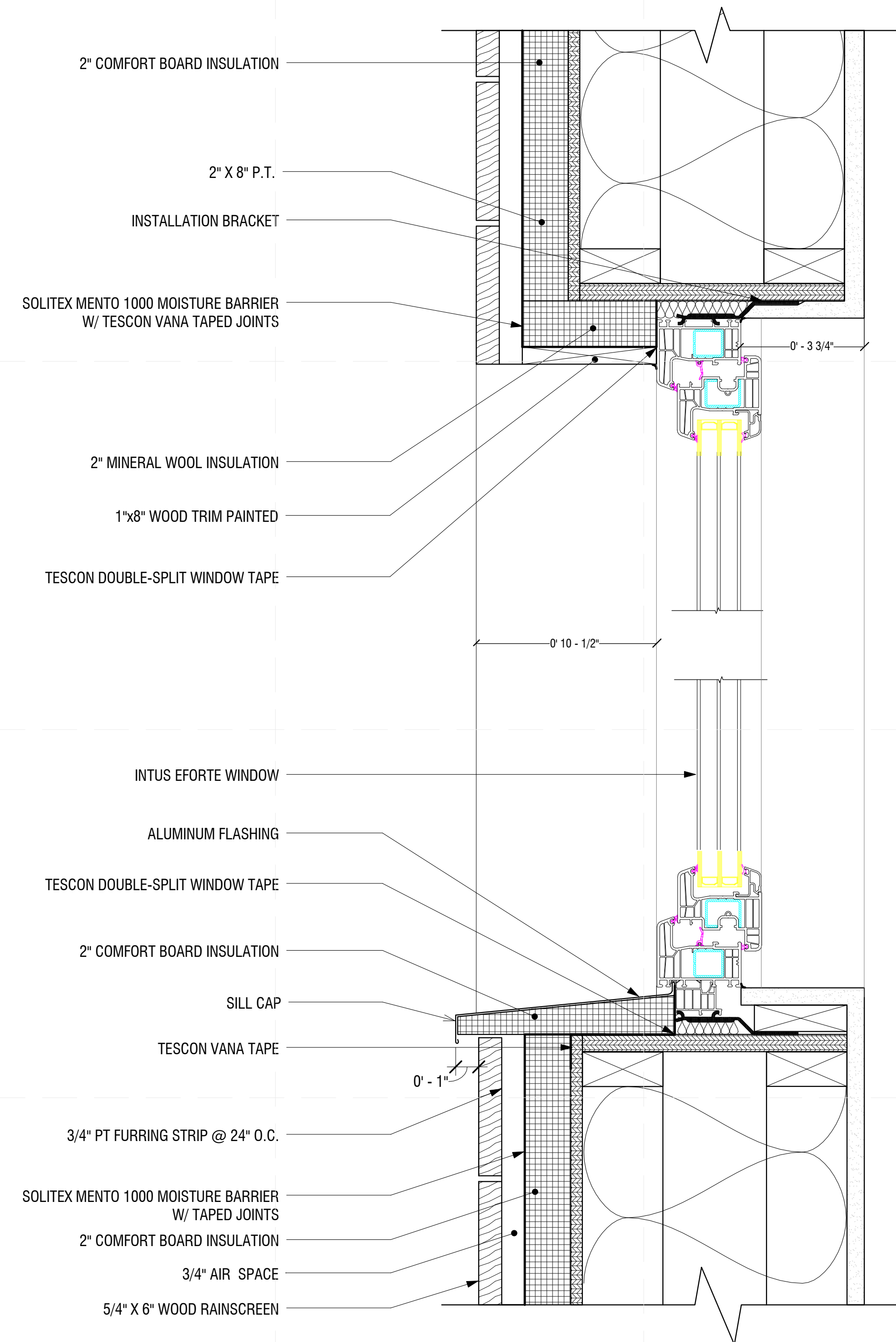
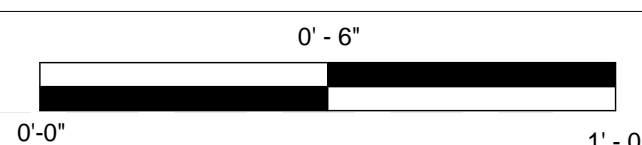
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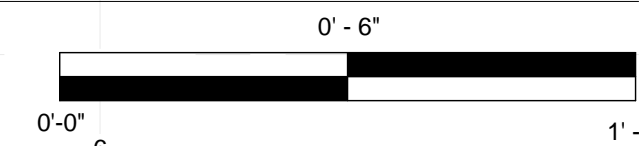
C1 SKYLIGHT DETAIL
1 1/2" = 1'-0"

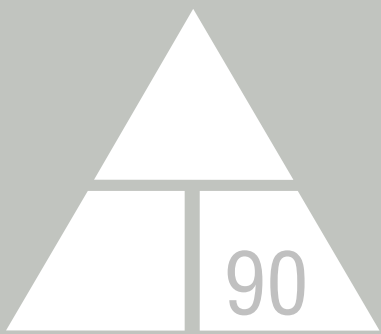


A1 TYPICAL WINDOW DETAIL PLAN
3" = 1'-0"



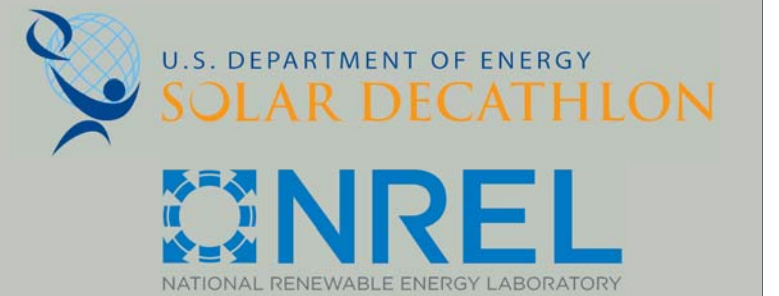
A5 TYPICAL WINDOW DETAIL SECTION
3" = 1'-0"





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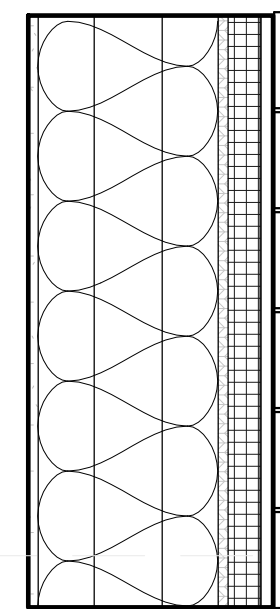
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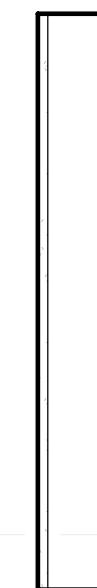
No.	Description	Date
1.	SCHEDULE ADJUSTMENTS	4/1/13

WALL SCHEDULE								
TYPE	DESCRIPTION	Mark	Family	Family and Type	COUNT	FIRE RATING	STRUCTURAL USAGE	Description
	Rain Screen Complete 2		Rain Screen Complete 3	Rain Screen Complete 3: Rain Screen Complete 2	1			
A	Exterior Wall		Basic Wall	Basic Wall: Exterior Wall	7			
B	Interior Wall		Basic Wall	Basic Wall: Interior Wall	5		Non-bearing	
C	Wet Wall		Basic Wall	Basic Wall: Wet Wall	1		Non-bearing	
D	Interior Wall - Party Wall		Basic Wall	Basic Wall: Interior Wall - Party Wall	6		Non-bearing	
E	Interior Wall - Team Panel Board Wall		Basic Wall	Basic Wall: Interior Wall - Team Panel Board Wall	1		Non-bearing	



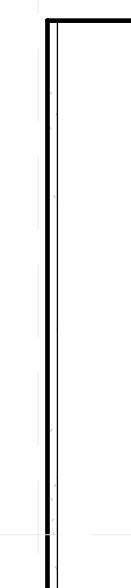
A - EXTERIOR WALL

- 5/4" RAIN SCREEN
- 3/4" AIR SPACE
- .01" MENTOS
- 2" RIDGID INSULATION
- 5/8" SHEATHING
- 2X4 WOOD STUD
- 11 1/4" DPC
- 2X4 WOOD STUD
- 5/8" GYPSUM BOARD



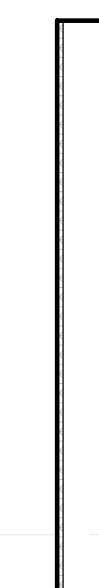
B - TYPICAL INTERIOR WALL

- 5/8" GYPSUM BOARD
- 2X4 WOOD STUD
- 5/8" GYPSUM BOARD



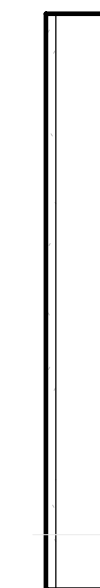
C - EXTERIOR WALL

- 5/8" GYPSUM BOARD
- 2X6 WOOD STUD
- 5/8" GYPSUM BOARD



D - SHEAR WALL

- 3/8" PLYWOODSHEATHING
- 2X4 WOOD STUD
- 5/8" GYPSUM BOARD



E - PANEL BOARD WALL

- (2) LAYERS 1/2" GYPSUM BOARD
- 2X4 WOOD STUD
- 5/8" GYPSUM BOARD

WALL TYPES



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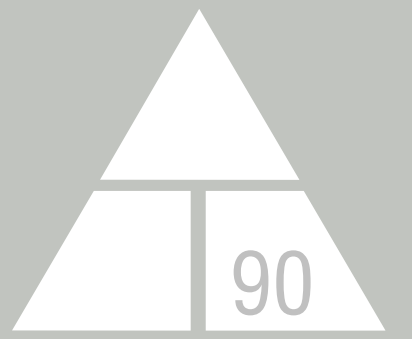
WALL TYPE SCHEDULE

Date 2012/8/1
Drawn by Author

A-603

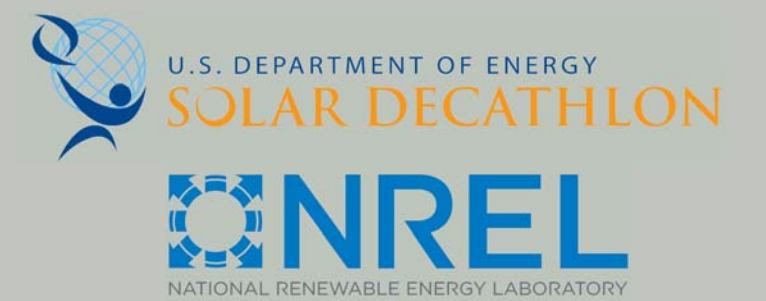
REFERENCE KEYNOTES

-08 06 10.13: DOOR TYPE SCHEDULE
 -08 14 73: SLIDING WOOD DOORS
 -08 14 76: BIFOLDING WOOD DOORS



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No.	Description	Date
1.	DOOR SCHEDULE ADJUSTMENTS	4/1/13

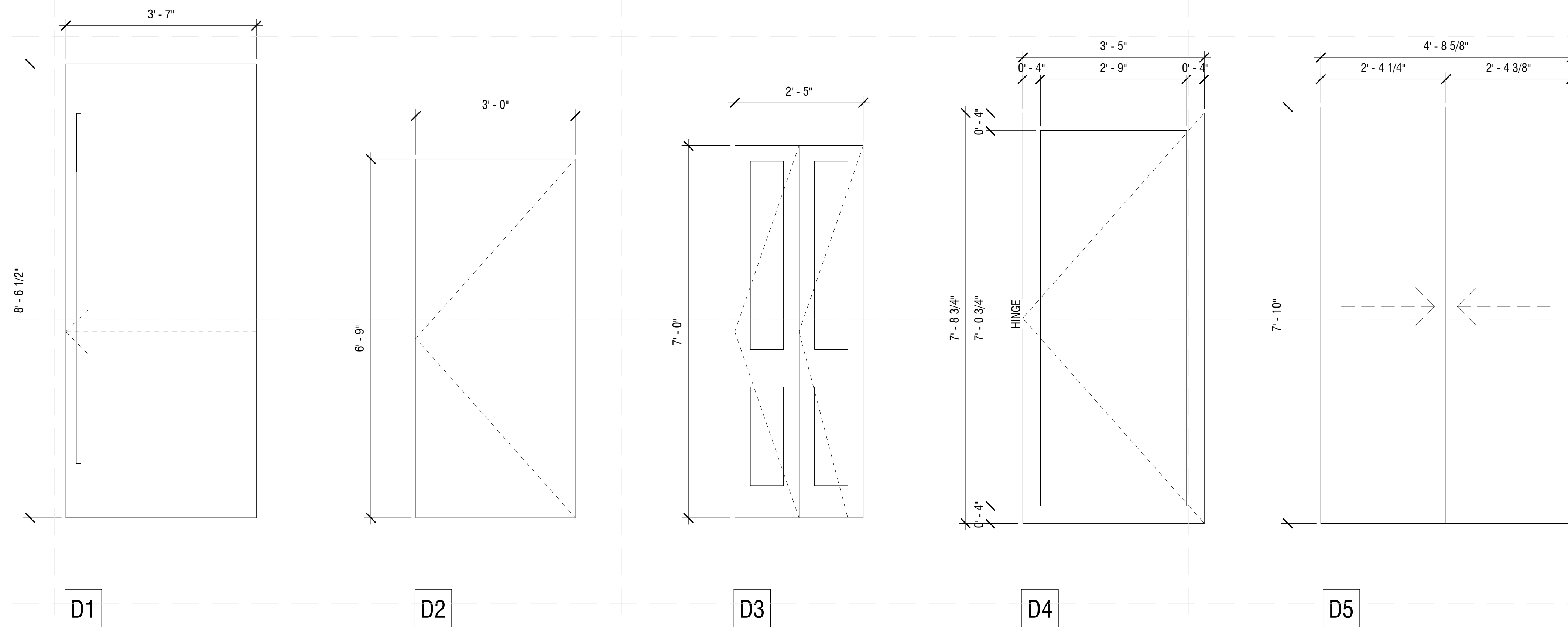
AS BUILT

DELTA T90

DOOR SCHEDULE

Date 2012/8/1
 Drawn by Author

A-604

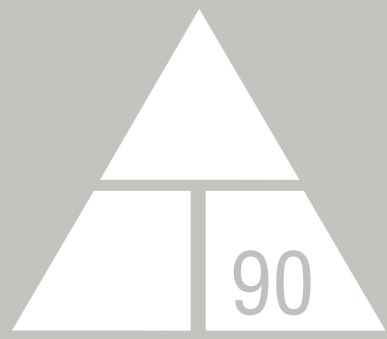


DOOR ELEVATIONS

3/4" = 1'-0"

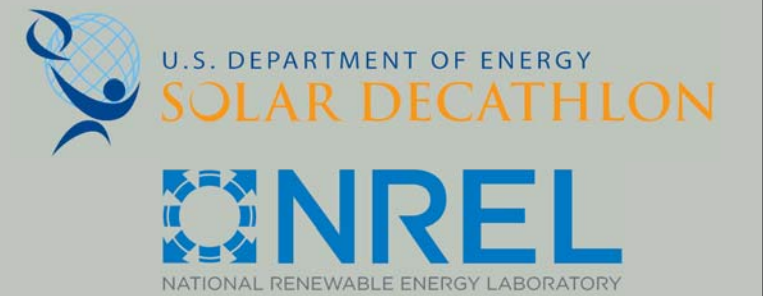
MARK	Type Mark	ROUGH WIDTH	ROUGH HEIGHT	SIZE			MATERIAL & TYPE	SIZE THICKNESS	LOCATION	U-VALUE (GLASS)	R-VALUE (GLASS)	FINISH	QUANTITY	DESCRIPTION
				WIDTH	HEIGHT	HEAD HEIGHT								
WS1-1	D1	3' - 7"	8' - 6 1/2"	3' - 7"	8' - 6 1/2"	8' - 6 1/2"	SOLID PINE / SLIDING		M. BR.			POLYWHEY	1	
WS1-01	D4	3' - 8"	7' - 5"	3' - 5"	7' - 8 11/16"	7' - 8 11/16"	U-PVC / HINGE	0' - 7"	S. ENTRY	0.106	9.43	U-PVC	1	SWINGS IN TO RIGHT
WS1-2	D3	2' - 5"	7' - 0"	2' - 5"	7' - 0"	7' - 0"	SOLID PINE / BI-FOLD	0' - 1 1/2"	AUX. BR.			POLYWHEY	1	
WS1-3	D3	2' - 5"	7' - 0"	2' - 5"	7' - 0"	7' - 0 1/2"	SOLID PINE / BI-FOLD	0' - 1 1/2"	LAUNDRY ROOM			POLYWHEY	1	
WS1-4	D1	3' - 7"	8' - 6 1/2"	3' - 7"	8' - 6 1/2"	8' - 6 1/2"	SOLID PINE / SLIDING		BATHROOM			POLYWHEY	1	
WS1-6	D5	5' - 0"	7' - 0"	2' - 4"	7' - 10"	7' - 10"	SOLID PINE / SLIDING		M. BR. CLOSET			POLYWHEY	1	
WW1-03	D4	3' - 8"	7' - 5"	3' - 5"	7' - 8 11/16"	7' - 8 11/16"	U-PVC / HINGE	0' - 7"	WEST EXT. DOOR	0.106	9.43	U-PVC	1	SWINGS IN TO RIGHT

Grand total: 7



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REVISIONS

No.	Description	Date
1.	WINDOW SCHEDULE ADJUSTMENTS	4/1/13

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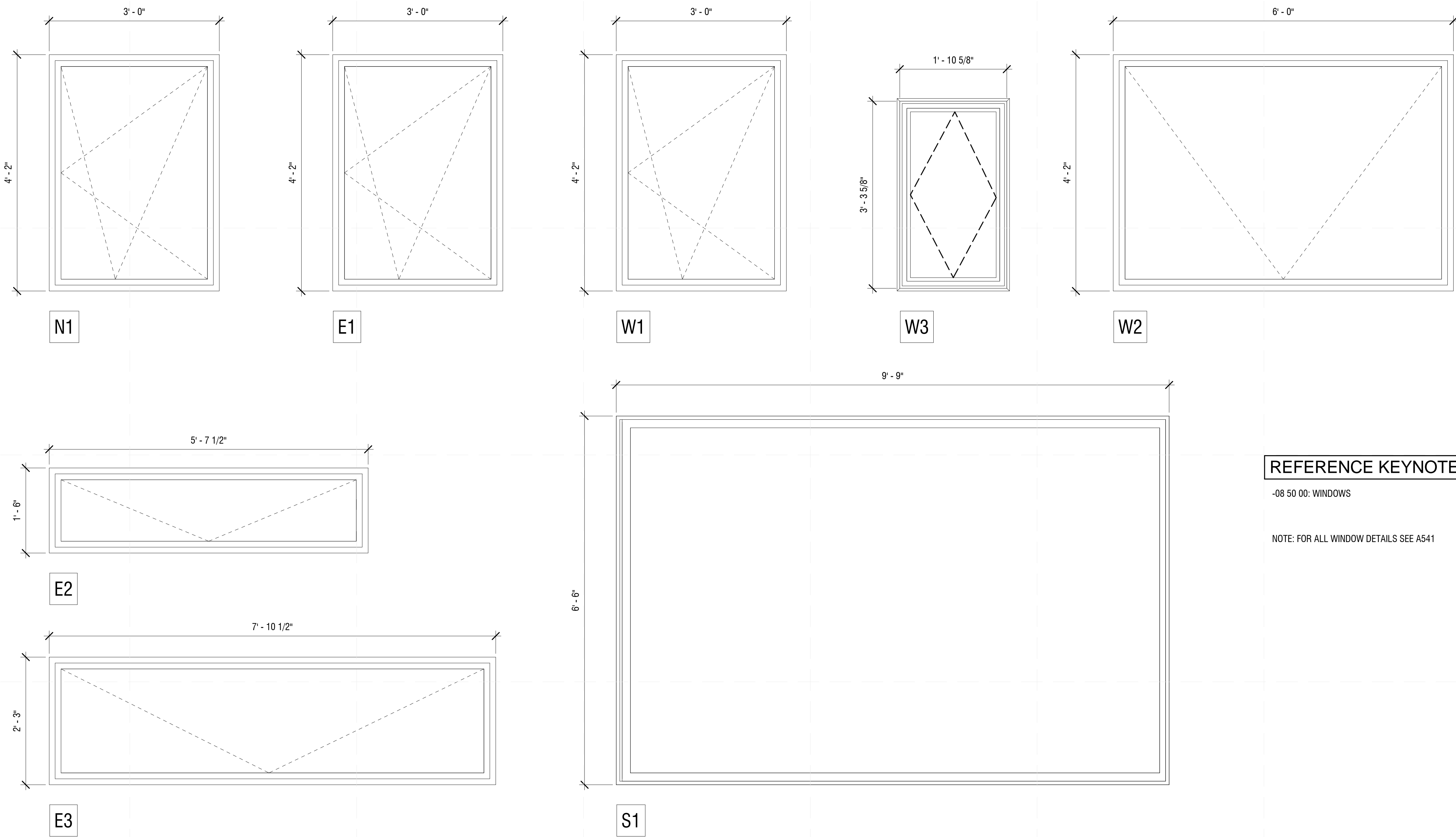
DELTA T90

WINDOW SCHEDULE

Date 2012/8/1
Drawn by Author

A-605

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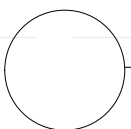
REFERENCE KEYNOTES

-08 50 00: WINDOWS

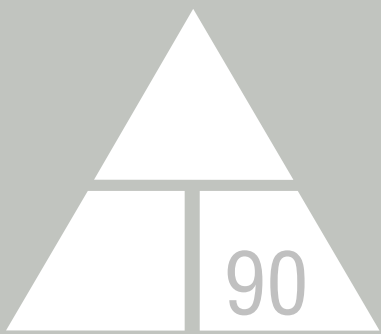
NOTE: FOR ALL WINDOW DETAILS SEE A541

WINDOW SCHEDULE																	
MARK	ROUGH OPENING		NOMINAL		HEAD HEIGHT	THICKNESS	AREA (SQ. FT.)	MATERIAL & TYPE	MANUFACTURER	LOCATION	SASH	GLAZING	U-VALUE (GLASS)	R-VALUE (GLASS)	SPACER BAR (W/mK)	FINISH	DESCRIPTION
	WIDTH	HEIGHT	WIDTH	HEIGHT													
N1	3'-1 1/4"	4'-4 1/2"	3'-0"	4'-2"	7'-7"	0'-4 1/8"	12 SF	U-PVC W/ GLASS	INTUS	NORTH FACADE BEDROOM	TILT / TURN	TRI-PAIN / LOW-E	0.088	11.36	0.067	U-PVC/ WHITE	
S1	9'-10 1/4"	6'-9 1/2"	9'-9"	6'-6"	7'-5 1/8"	0'-4 1/8"	64 SF	U-PVC W/ GLASS	INTUS	SOUTH FACADE LIVING	FIXED	TRI-PAIN / LOW-E	0.088	11.36	0.067	U-PVC/ WHITE	3M SECURITY
W1	3'-1 1/4"	4'-4 1/2"	3'-0"	4'-2"	7'-7 1/8"	0'-4 1/8"	12 SF	U-PVC W/ GLASS	INTUS	WEST FACADE LIVING	TILT / TURN	TRI-PAIN / LOW-E	0.088	11.36	0.067	U-PVC/ WHITE	
W2	6'-1 1/4"	4'-4 1/2"	6'-0"	4'-2"	7'-7 1/8"	0'-5 1/2"	24 SF		INTUS	WEST FACADE LIVING	TILT	NONE	0.088	11.36	0.067	U-PVC/ WHITE	
E3	7'-11 3/4"	2'-5 1/2"	7'-10 1/2"	2'-3"	6'-5 1/8"	0'-4 1/8"	17 SF		INTUS	EAST FACADE KITCHEN	TILT	NONE	0.088	11.36	0.067	U-PVC/ WHITE	
E1	3'-1 1/4"	4'-4 1/2"	3'-0"	4'-2"	7'-7 1/8"	0'-4 1/8"	12 SF	U-PVC W/ GLASS	INTUS	EAST FACADE BEDROOM	TILT / TURN	NONE	0.088	11.36	0.067	U-PVC/ WHITE	
E2	5'-8 3/4"	2'-6"	5'-7 1/2"	1'-6"	7'-7 1/8"	0'-4 1/8"	11 SF		INTUS	EAST FACADE BATHROOM	TILT	NONE	0.088	11.36	0.067	U-PVC/ WHITE	
W3	1'-8 1/2"	3'-7 1/2"	1'-9 21/32"	3'-2 19/32"				WOOD W/ GLASS	FAKRO	HALLWAY CEILING	TILT	TRI-PAIN / LOW-E	0.081	12.34	0.055	WOOD	SKYLIGHT
W4	6'-0"	4'-2"				0'-4 1/8"	25 SF		INTUS	WEST FACADE OFFICE	TILT	TRI-PAIN / LOW-E	0.088	11.36	0.067	U-PVC/ WHITE	
W11	3'-1 1/4"	4'-4 1/2"	3'-0"	4'-2"	7'-7"	0'-4 1/8"	12 SF	U-PVC W/ GLASS	INTUS	NORTH FACADE BEDROOM	TILT / TURN	TRI-PAIN / LOW-E	0.088	11.36	0.067	U-PVC/ WHITE	
W12																	

WINDOW LEGEND

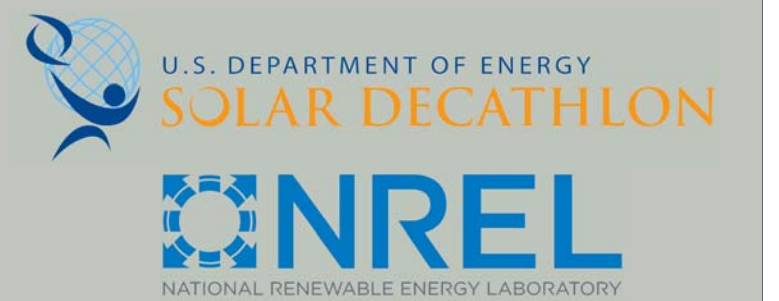


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REVISIONS

No.	Description	Date
1.	SCHEDULE ADJUSTMENTS	4/1/13

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APPLIANCE AND ROOM
FINISH SCHEDULE

Date 2012/8/1
Drawn by Author

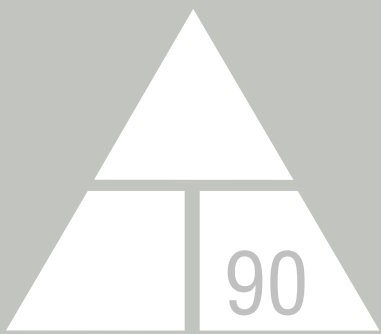
A-606

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ROOM FINISH SCHEDULE				
ROOM NO.	ROOM NAME	FLOOR FINISH	WALL FINISH	CEILING FINISH
1	MASTER BEDROOM	1/2" PLYWOOD SATIN POLY FINISH	GWB/ WHITE LATEX (SEMIGLOSS)	GWB PAINTED
2	M. CL.	1/2" PLYWOOD	GWB/ WHITE LATEX (SEMI-GLOSS)	GWB PAINTED
3	AUXILIARY BEDROOM	1/2" PLYWOOD	GWB/ WHITE LATEX (SEMI-GLOSS)	GWB PAINTED
4	OFFICE	1/2" PLYWOOD	GWB/ WHITE LATEX (SEMI-GLOSS)	GWB PAINTED
5	LAUNDRY ROOM	1/2" PLYWOOD	GWB/ WHITE LATEX (SEMI-GLOSS)	GWB PAINTED
6	HALL	1/2" PLYWOOD	GWB/ WHITE LATEX (SEMI-GLOSS)	GWB PAINTED
7	BATHROOM	CORK	MARINE GRADE PLYWOOD	GWB PAINTED
8	LIVING ROOM	1/2" PLYWOOD	GWB/ WHITE LATEX (SEMI-GLOSS)	GWB PAINTED
9	KITCHEN/DINING	1/2" PLYWOOD	GWB/ WHITE LATEX (SEMI-GLOSS) \ 1x6 CEDAR	GWB PAINTED

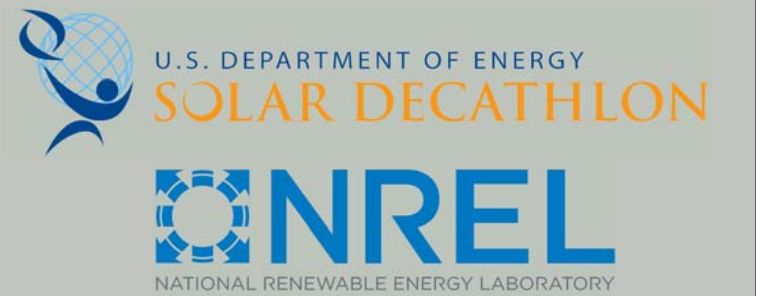
APPLIANCE SCHEDULE							
APPLIANCE	ASSEMBLY DESCRIPTION	LOCATION	MANUFACTURER	MODEL	POWER USAGE	COLOR	DESCRIPTION
REFRIGERATOR	Residential Equipment	KITCHEN/DINING	FRIGIDAIRE	FFHT1814LM	540 W	STAINLESS STEEL	RIGHT HINGE
DISHWASHER	Residential Equipment	KITCHEN/DINING	FRIGIDAIRE	LGBD2431NF	320 W	STAINLESS STEEL/ BLACK	
RANGE/STOVETOP	Residential Equipment	KITCHEN/DINING	FRIGIDAIRE	FFES3015LS	100 W	STAINLESS STEEL/ BLACK	
WASHER/DRYER COMBO	Residential Equipment	LAUNDRY ROOM	SUMMIT	SPWD1800	100 W	STAINLESS STEEL/SILVER	WASHER/ DRYER COMBO
MICROWAVE		KITCHEN/DINING	FRIGIDAIRE	FFCMO734LS			
RANGE HOOD		KITCHEN/DINING	GE	JVE40STSS			

MECHANICAL EQUIPMENT SCHEDULE			
DESCRIPTION	MANUFACTURER	MODEL	LOCATION
LUNOS	LUNOS	E2	MASTER BEDROOM
LUNOS	LUNOS	E2	LIVING ROOM
LUNOS	LUNOS	E2	AUXILIARY BEDROOM
LUNOS	LUNOS	E2	BATHROOM
LUNOS	LUNOS	E2	BATHROOM
HEAT PUMP	MITSUBISHI	SEZ-KD \ SUZKA15NA	KITCHEN/DINING
			LAUNDRY ROOM
HEAT PUMP	MITSUBISHI	SEZ-KD \ SUZKA15NA	HALL
LUNOS	LUNOS	E2	KITCHEN/DINING



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REVISIONS

No.	Description	Date

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GENERAL NOTES &
SYMBOLS

Date 2012/8/1
Drawn by Author

I-001

INTERIOR SHEET LIST
SHEET NAME

SHT NO	SHEET NAME
I-001	GENERAL NOTES & SYMBOLS
I-101	FURNITURE PLAN
I-201	LIVING INTERIOR ELEVATION
I-202	OFFICE INTERIOR ELEVATIONS
I-203	BATHROOM INTERIOR ELEVATIONS
I-204	MASTER BEDROOM INTERIOR ELEVATIONS
I-205	SECONDARY BEDROOM INTERIOR ELEVATIONS
I-206	KITCHEN ELEVATIONS
I-504	FURNITURE SCHEDULE
I-505	KITCHEN CASEWORK SCHEDULE

E

D

C

B

A

1

2

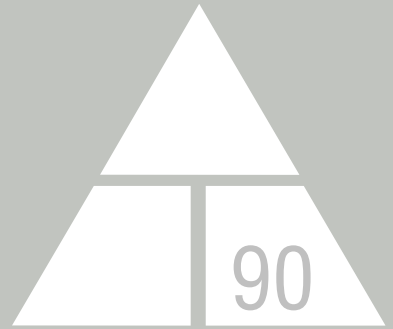
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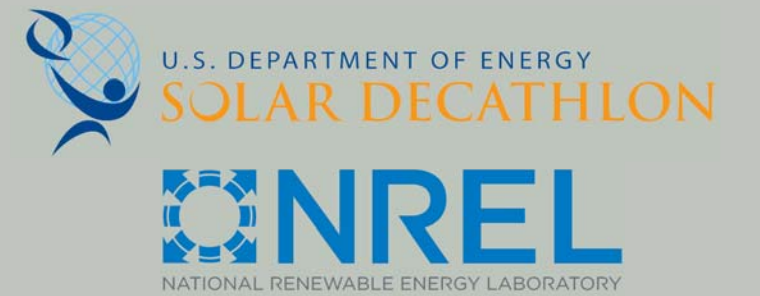
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NORWICH UNIVERSITY

158 HARMON DR.
NORTHFIELD
VERMONT 05663



WWW.SOLARDECATHLON.GOV

CONSULTANT: MATTHEW LUTZ
CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date
1.	FURNITURE UPDATES	4/1/13

AS BUILT

DELTA T90

FURNITURE PLAN

Date 2012/8/1
Drawn by Author

I-101

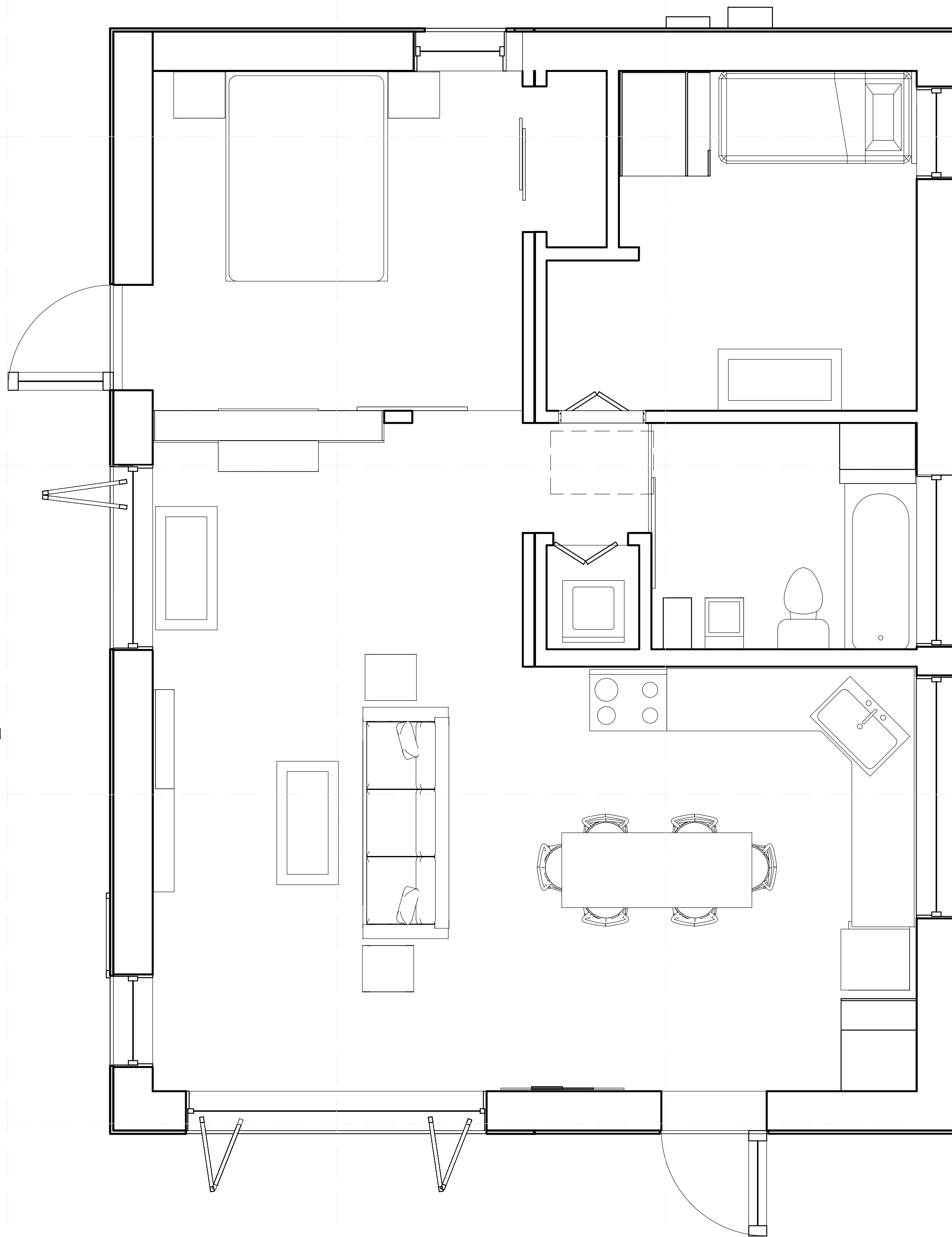
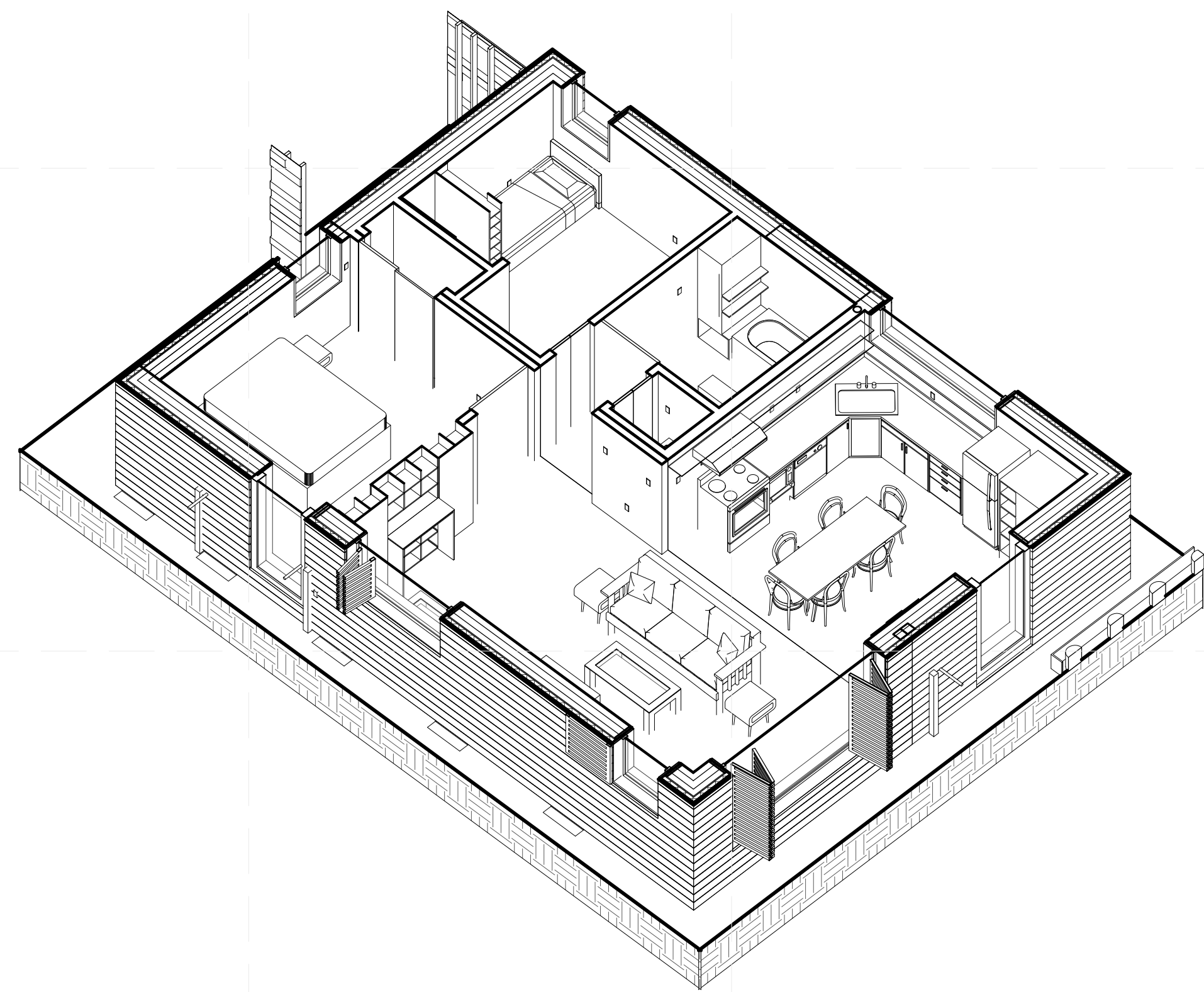
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GENERAL SHEET NOTES

DECKS, RAILINGS, WATER TANKS AND WATER TANK STORAGE OMITTED FOR CLARITY

REFERENCE KEYNOTES

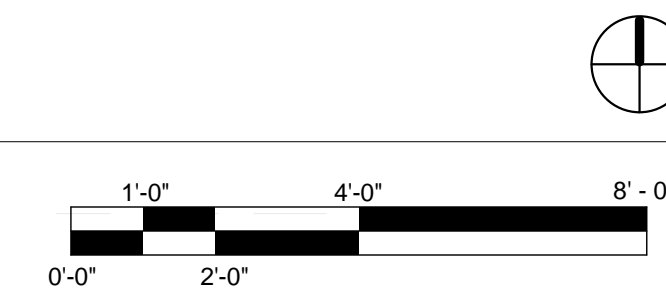
-DIVISION 12: FURNISHINGS



A1 INTERIOR AXONOMETRIC

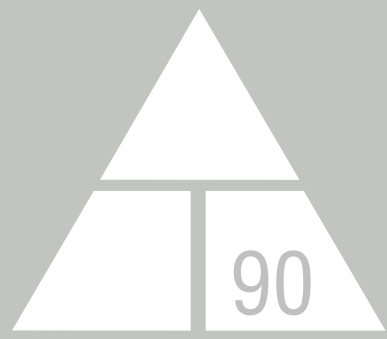
A3 FURNITURE/DINING/ENTERTAINMENT PLAN

3/8" = 1'-0"



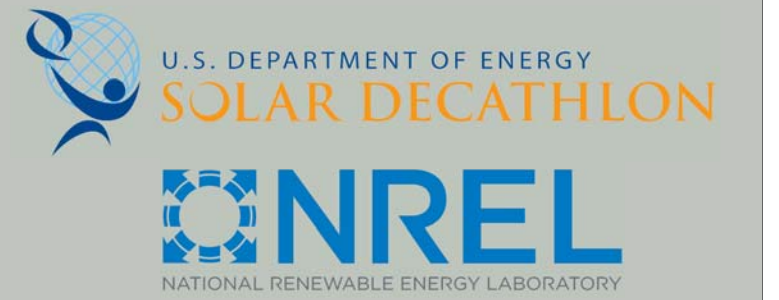
E
D
C
B
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1 2 3 4 5 6 7



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REVISIONS

No.	Description	Date
1.	LINEWEIGHT ADJUSTMENTS	4/1/13

AS BUILT

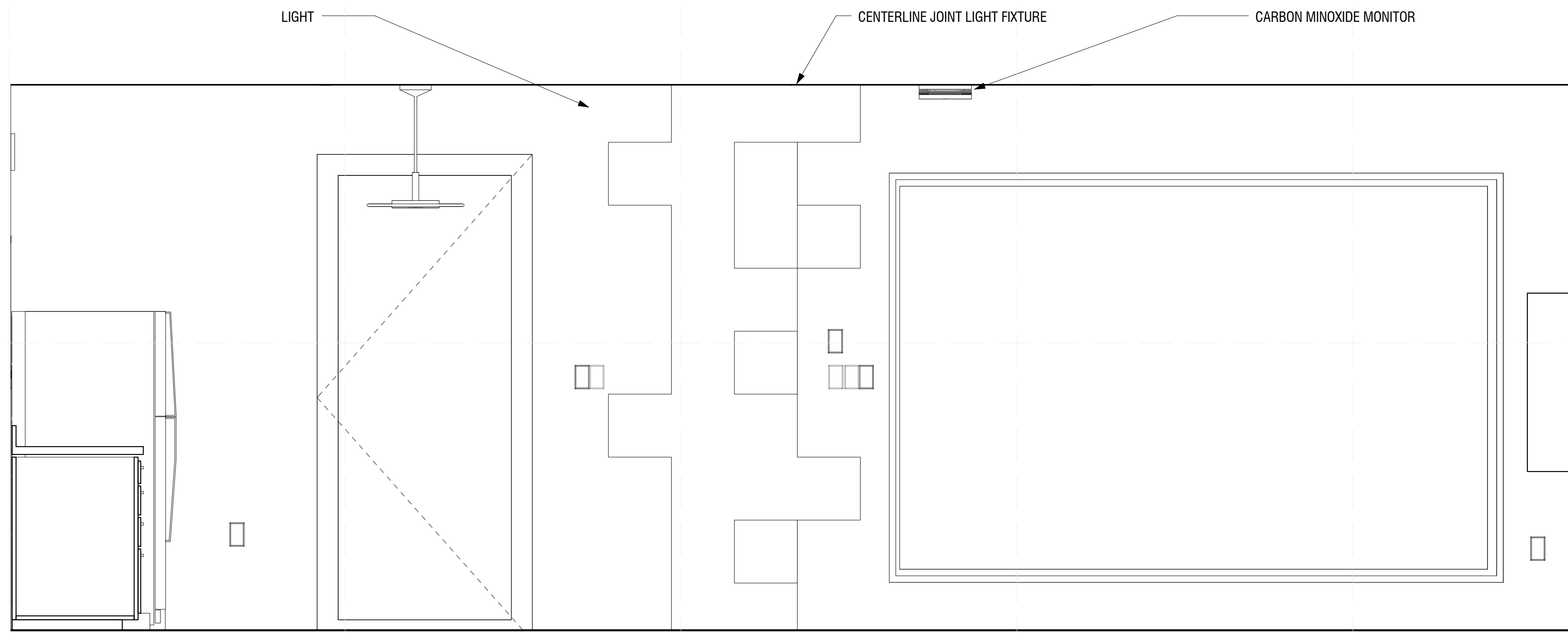
DELTA T90

LIVING INTERIOR
ELEVATION

Date 2012/8/1
Drawn by Author

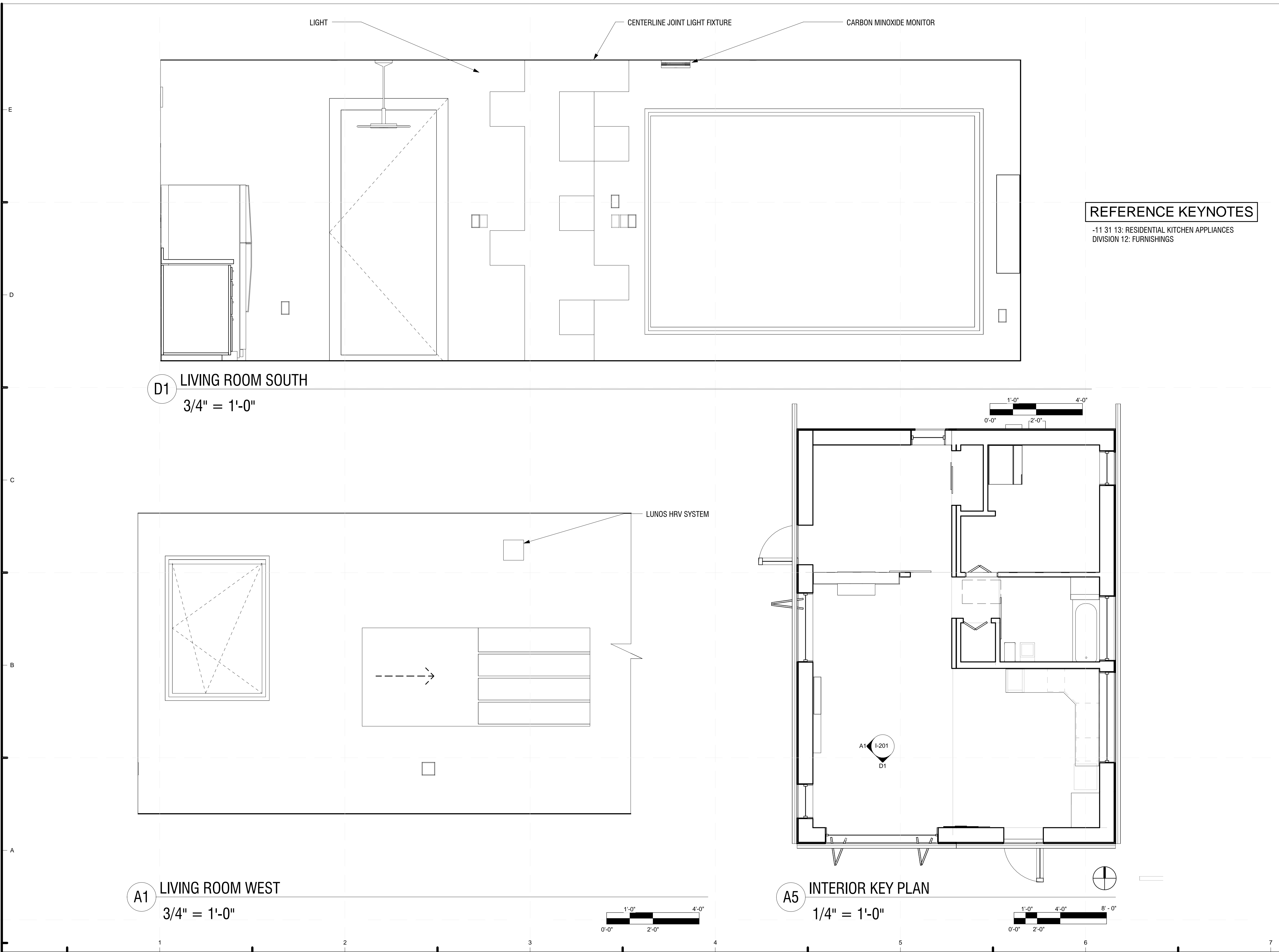
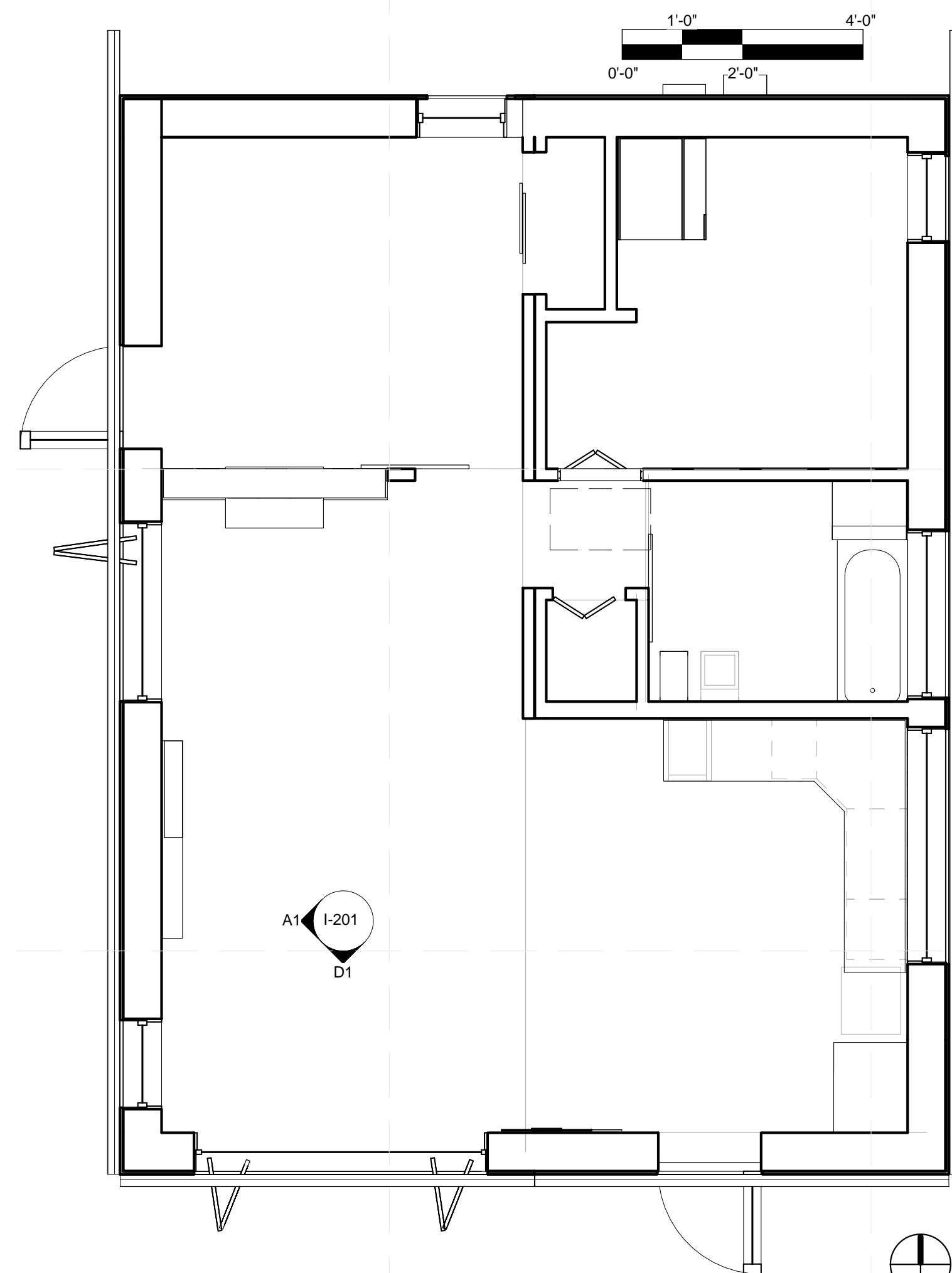
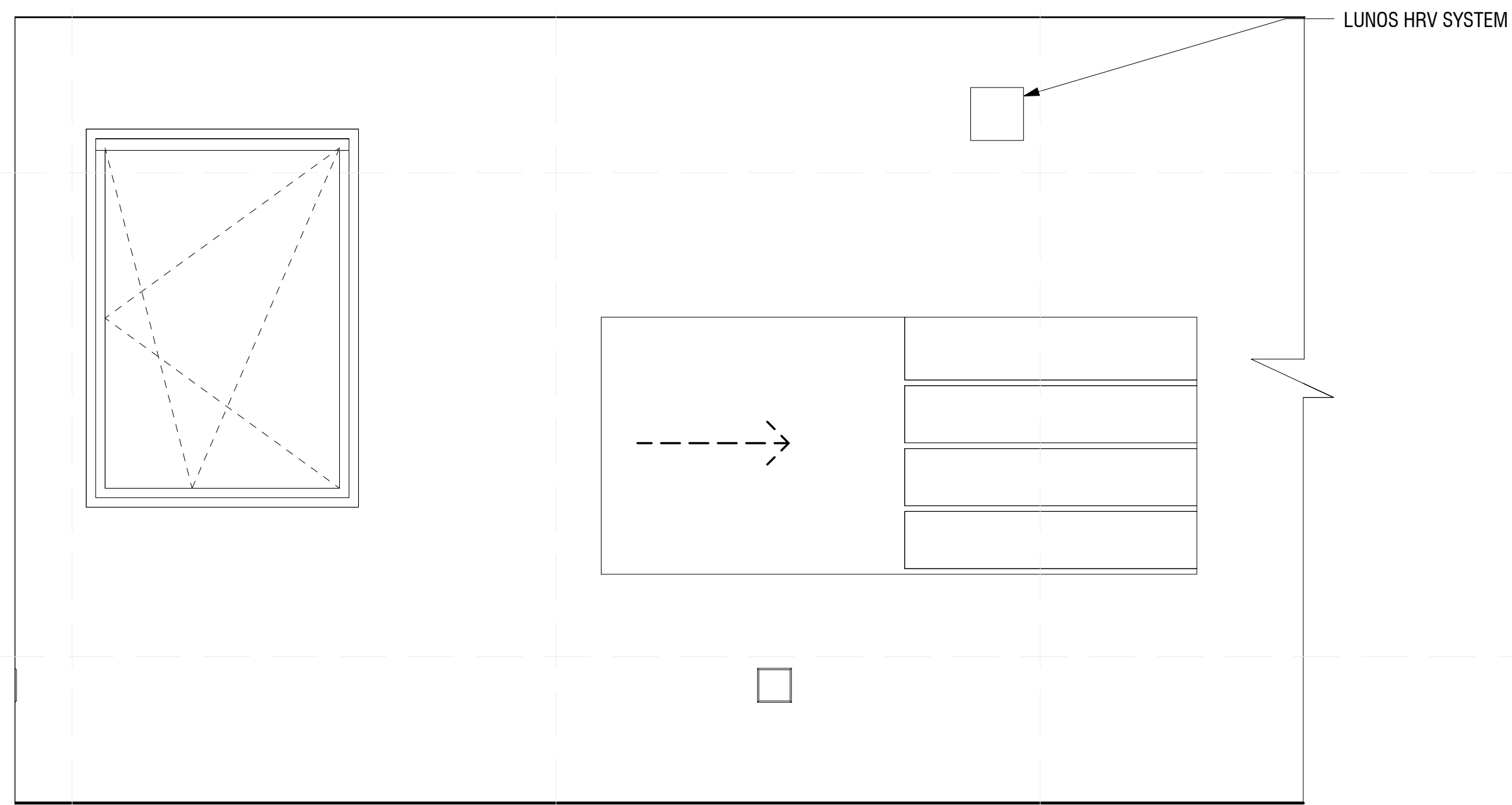
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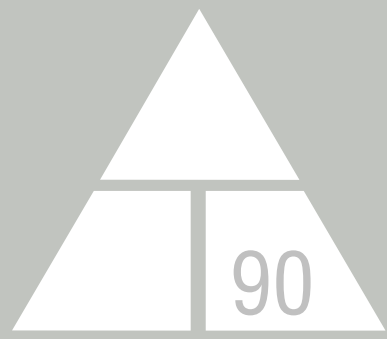
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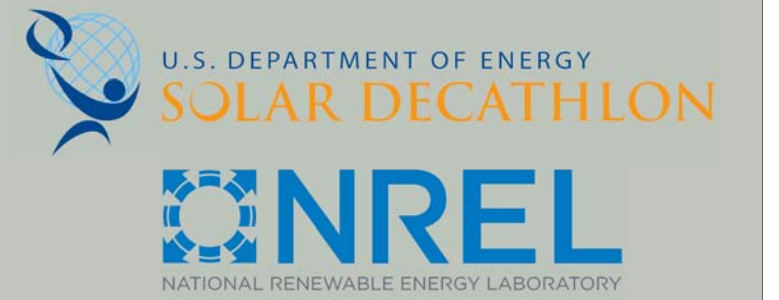
-11 31 13: RESIDENTIAL KITCHEN APPLIANCES
DIVISION 12: FURNISHINGS





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REVISIONS

No.	Description	Date
1.	LINEWEIGHT ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

OFFICE INTERIOR
ELEVATIONS

Date 2012/8/1
Drawn by Author

I-202

8/9/2013 11:51:01 PM

GENERAL SHEET NOTES

- DECKS, RAILINGS, EXTERIOR DOORS AND KIOSK
OMITTED FOR CLARITY

REFERENCE KEYNOTES

-10 20 00: INTERIOR SPECIALTIES
-26 51 13: INTERIOR LIGHTING FIXTURES, LAMPS
AND BALLASTS

RECESSED SPRINKLER

SMOKE DETECTOR

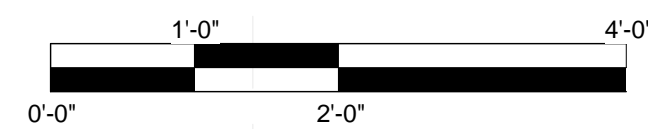
CENTER JOINT LIGHT

SMOKE DETECTOR

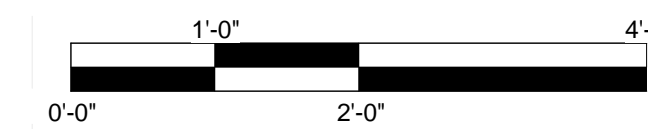
SPRINKLER

RECESSED SPRINKLER

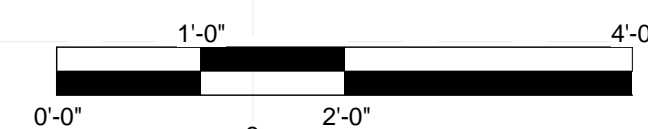
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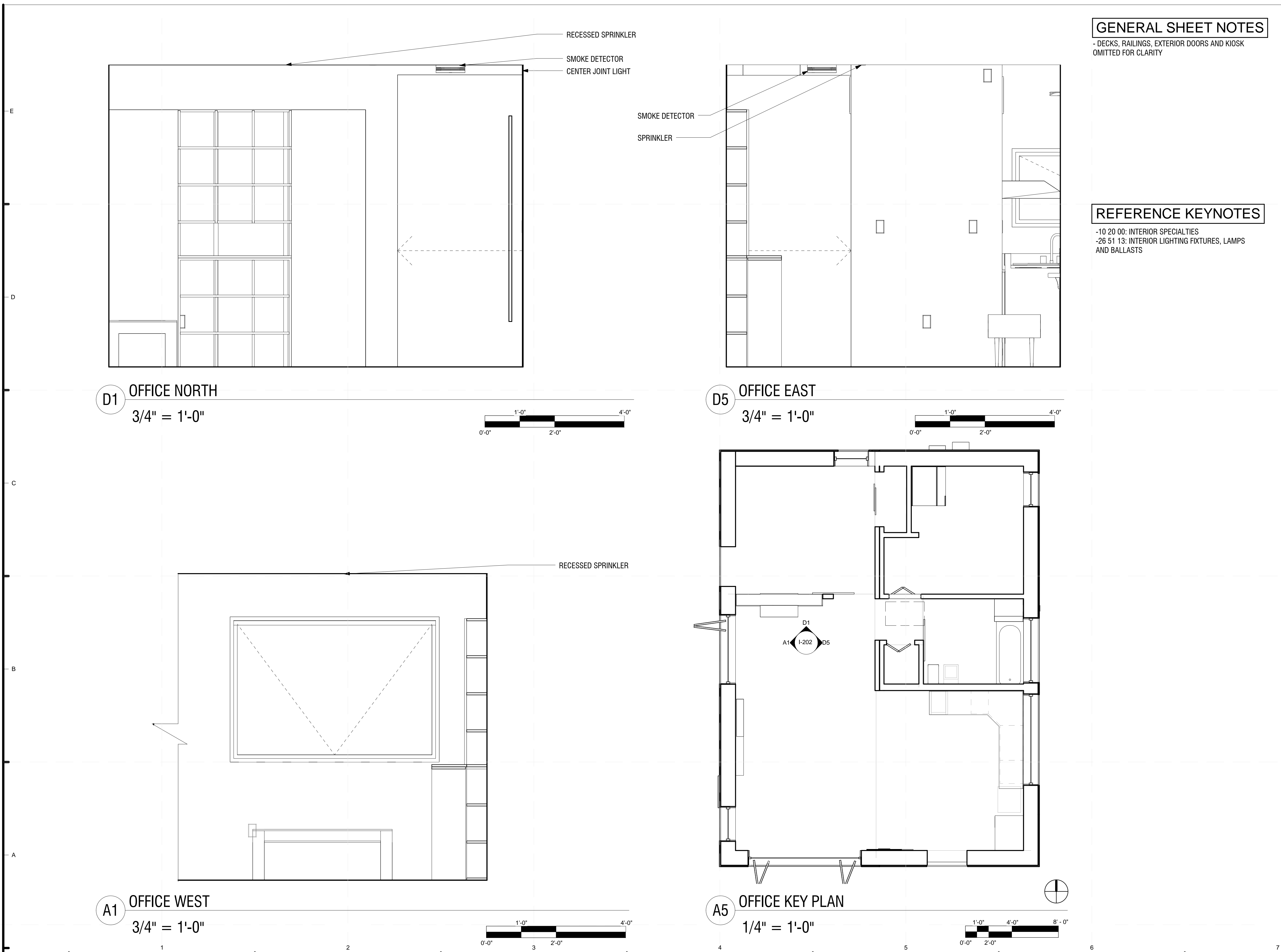
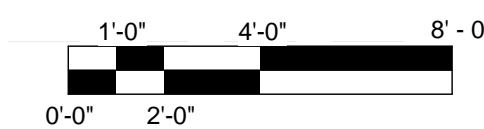
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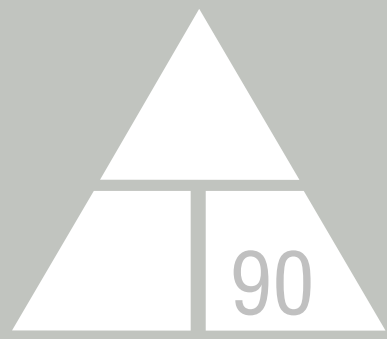


A1 OFFICE WEST
3/4" = 1'-0"



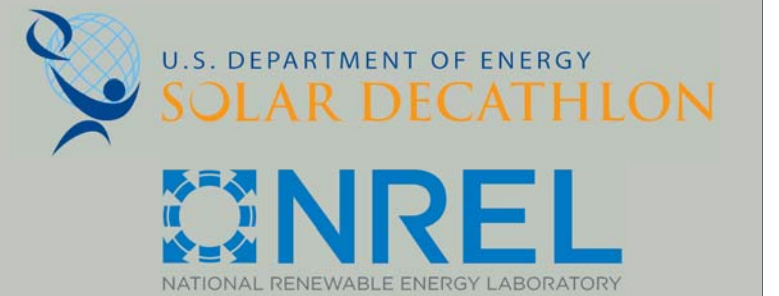
A5 OFFICE KEY PLAN
1/4" = 1'-0"





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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

BATHROOM INTERIOR
ELEVATIONS

Date 2012/8/1
Drawn by Author

I-203

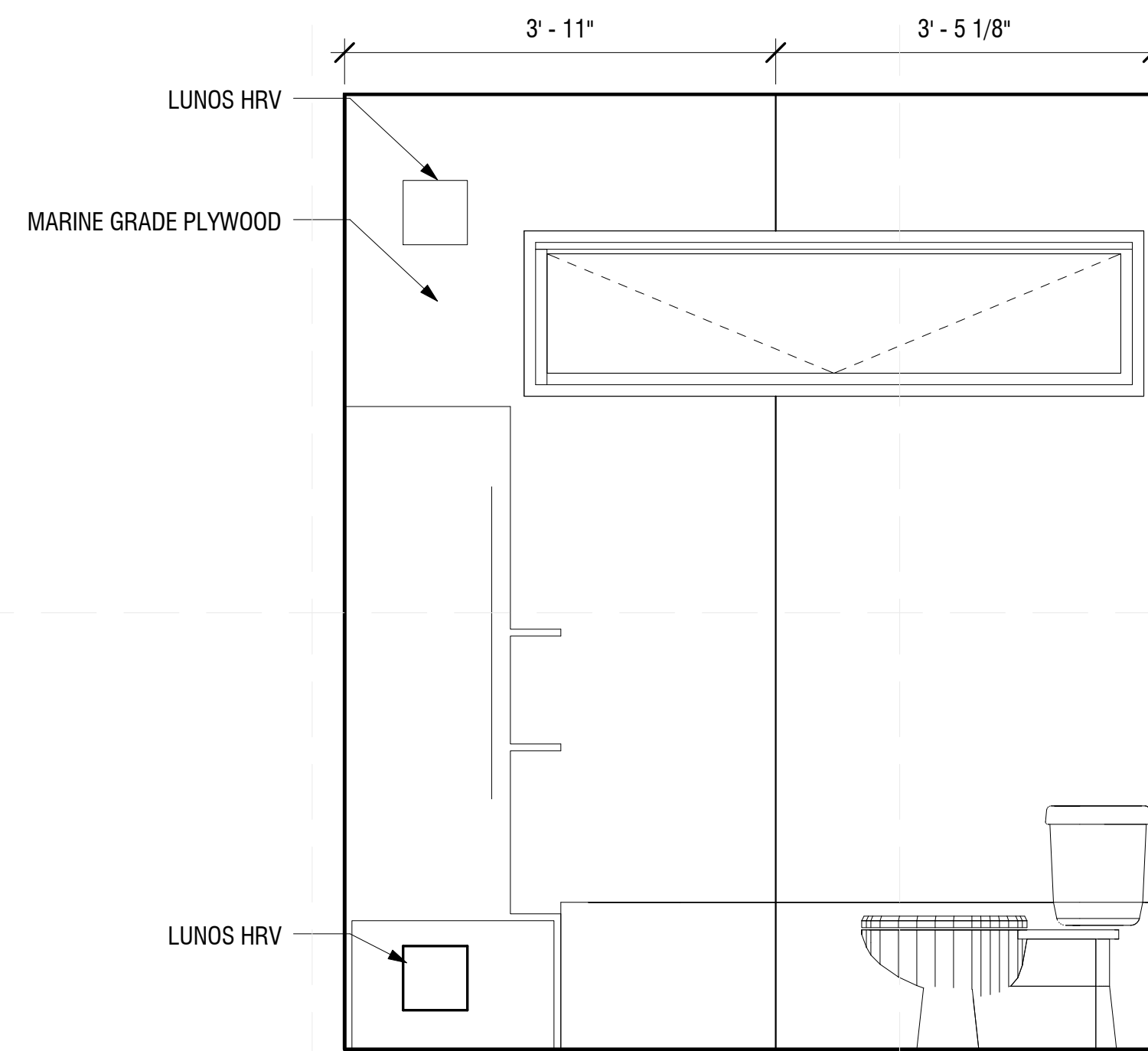
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GENERAL SHEET NOTES

- DECKS, RAILINGS, AND KIOSK OMITTED FOR CLARITY

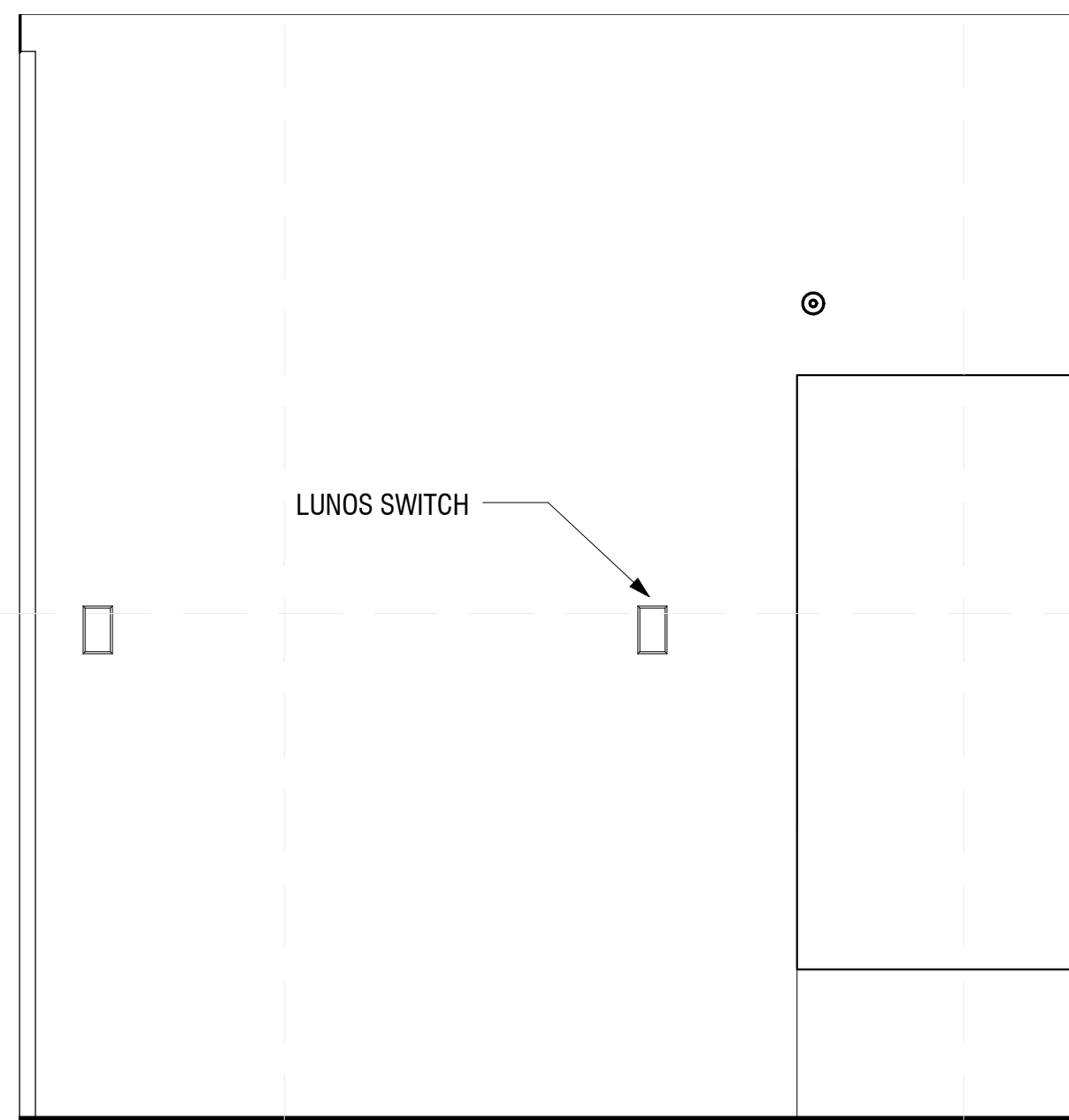
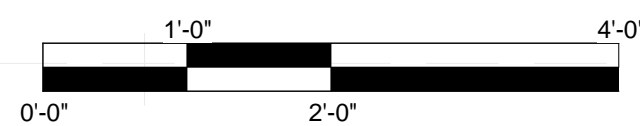
REFERENCE KEYNOTES

- 12 35 30.23: BATHROOM CASEWORK
- 11 31 23: RESIDENTIAL LAUNDRY APPLIANCES
- 22 41 16: RESIDENTIAL LAVATORIES AND SINKS
- 22 41 23: RESIDENTIAL SHOWERS
- 22 41 39: RESIDENTIAL FAUCETS, SUPPLIES, AND TRIM



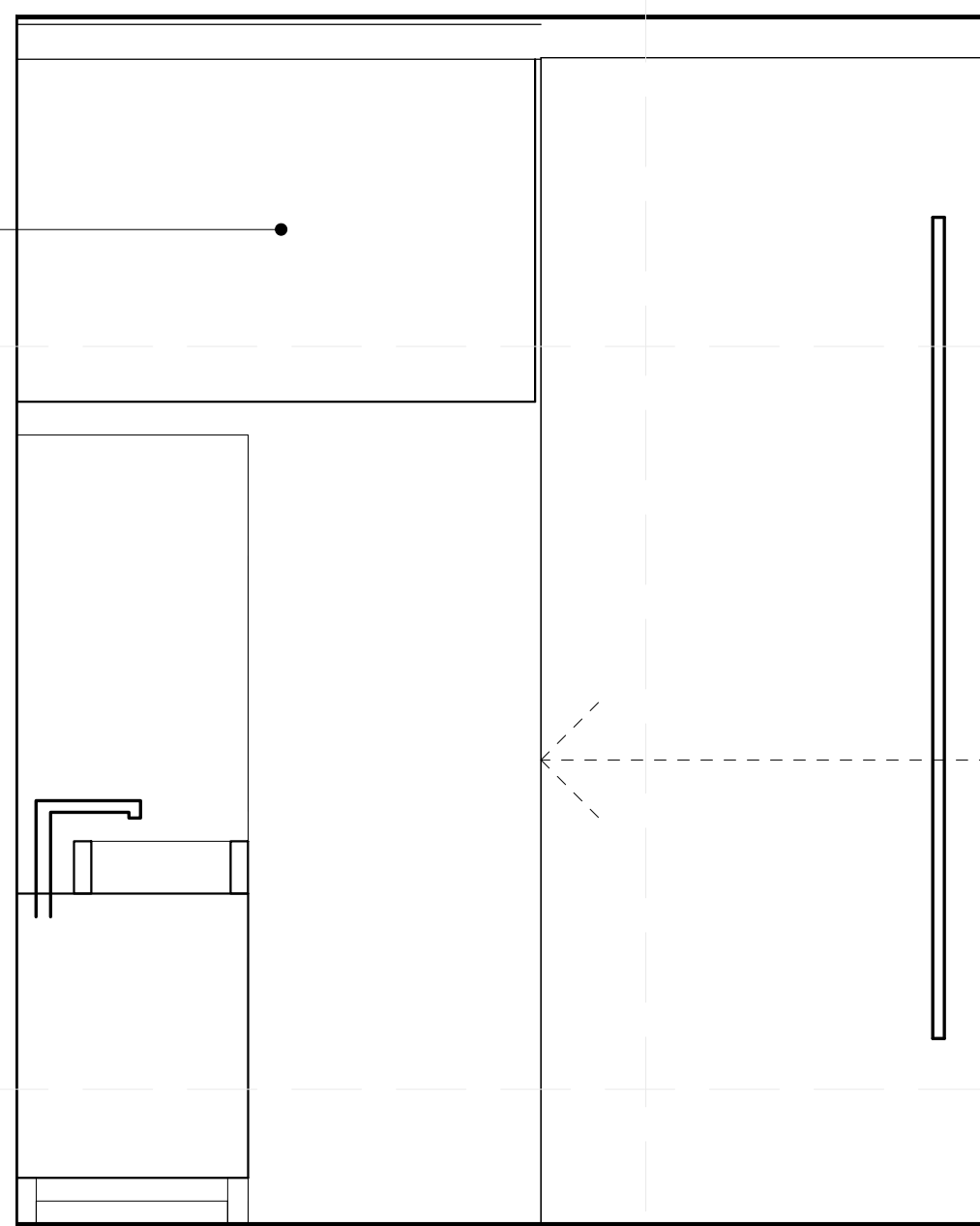
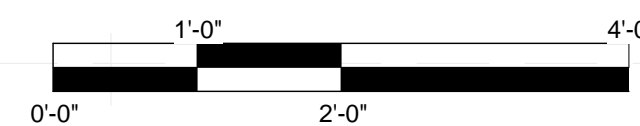
D4 BATH EAST ELEVATION

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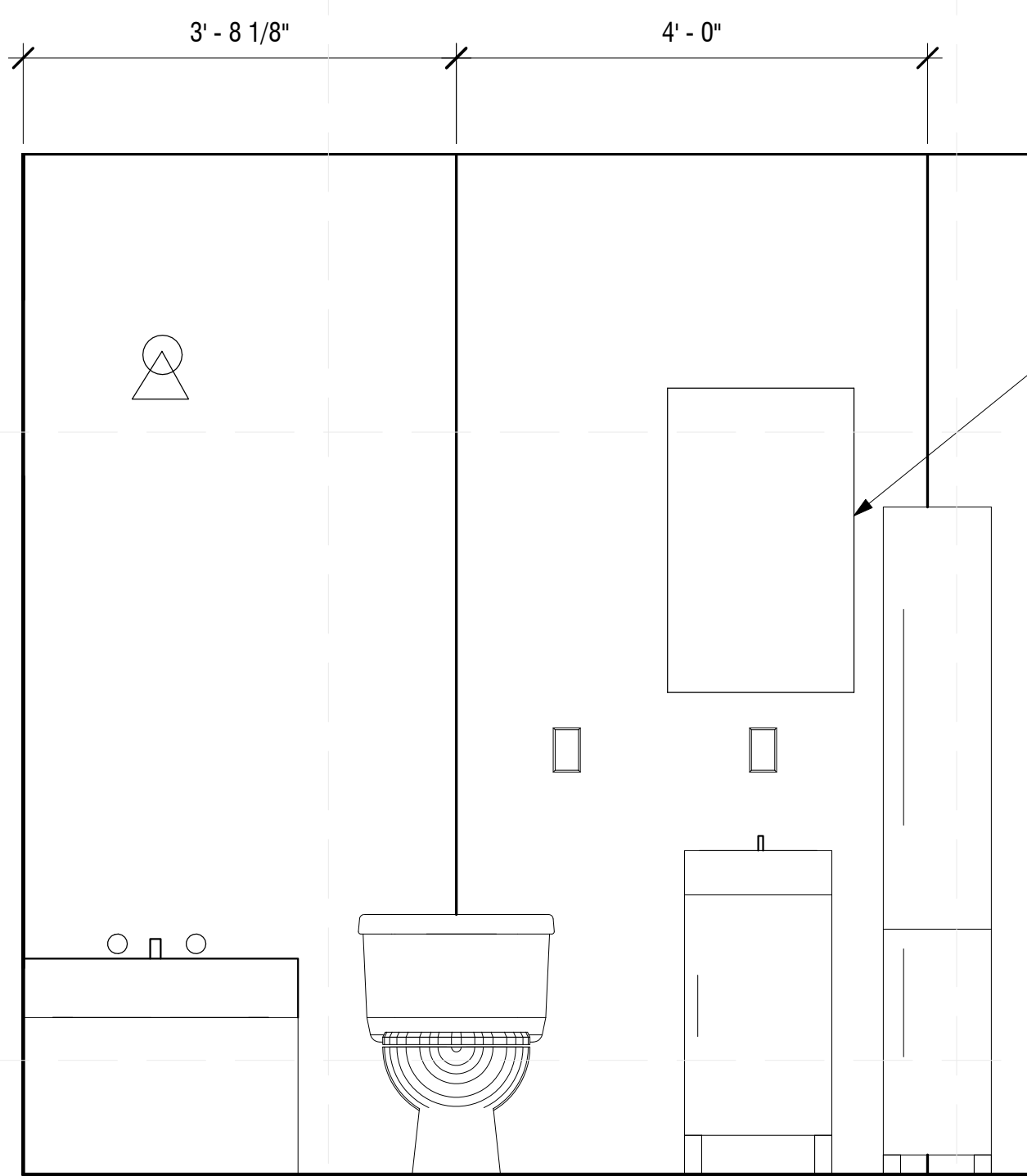
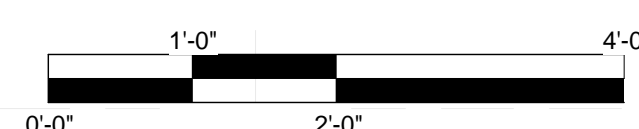
D1 BATH NORTH ELEVATION

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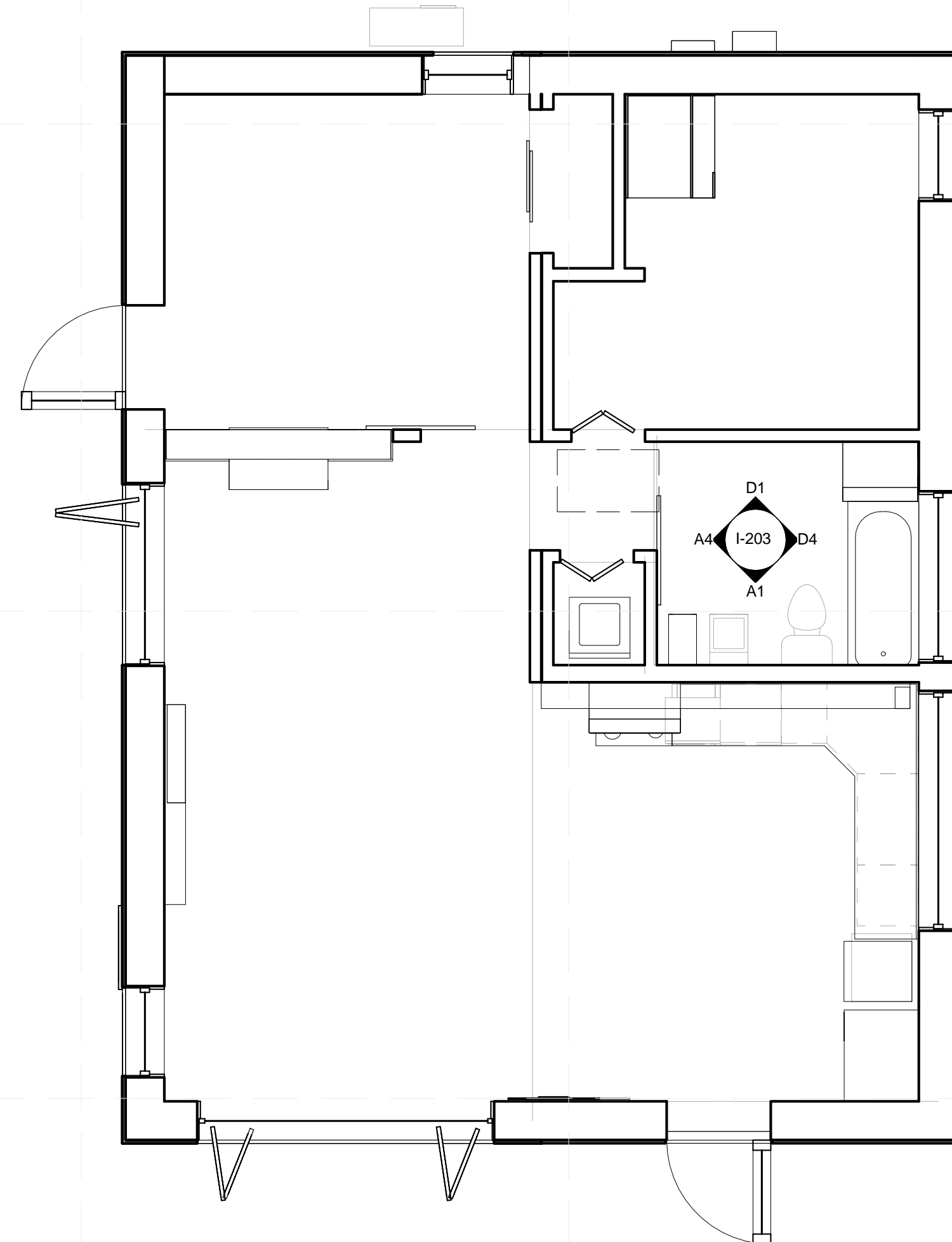
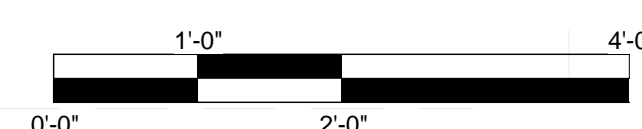
A4 BATH WEST ELEVATION

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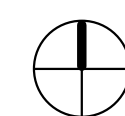
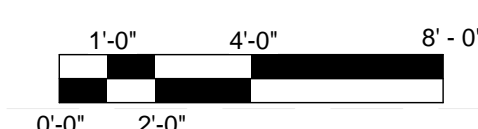
A1 BATH SOUTH ELEVATION

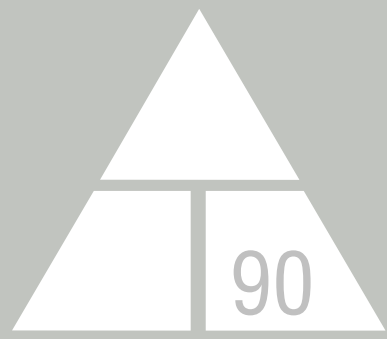
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A5 INTERIOR KEY PLAN 2

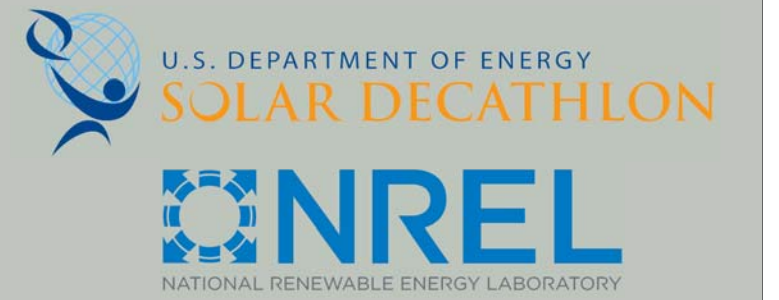
1/4" = 1'-0"





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REVISIONS

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AS BUILT

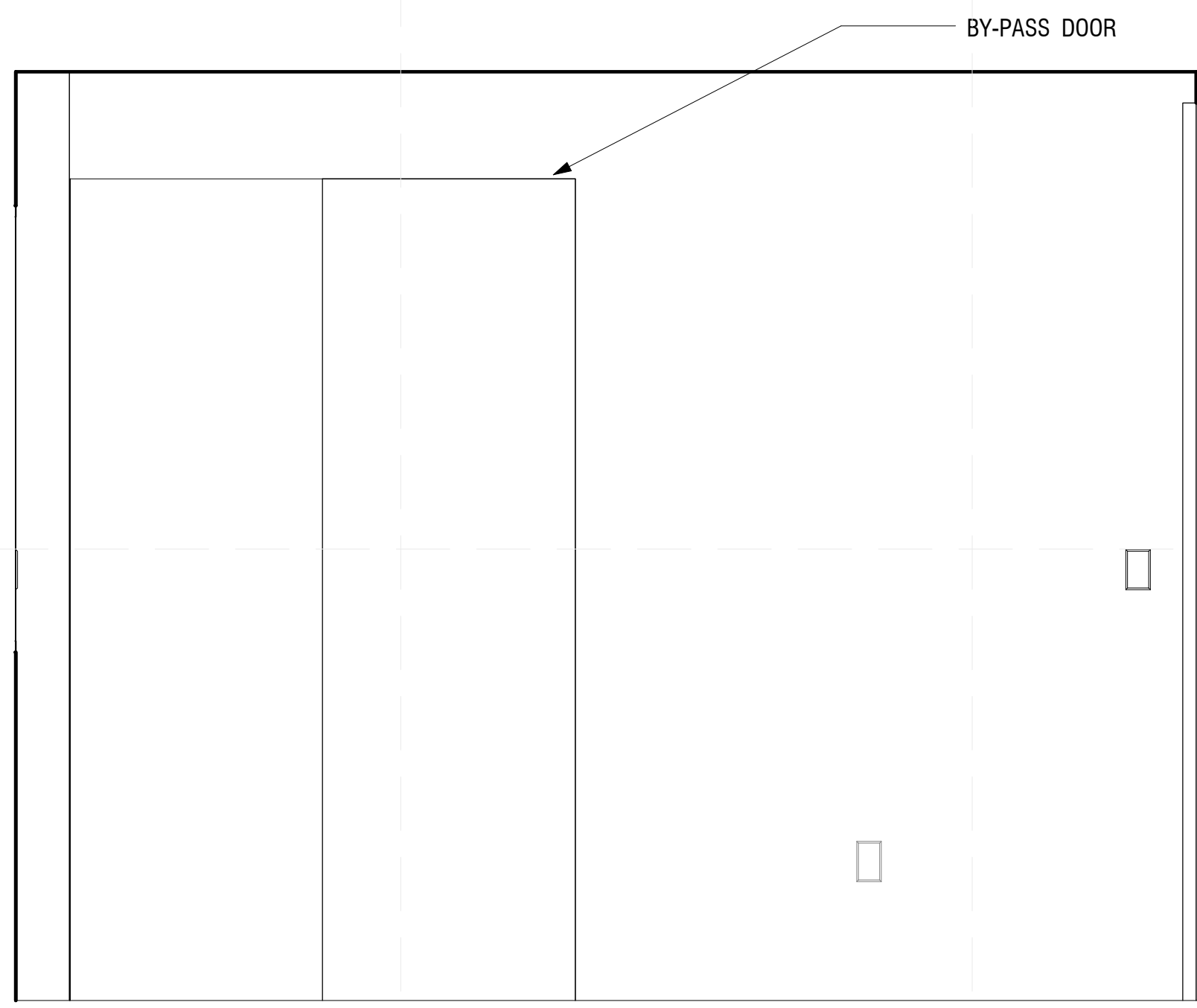
DELTA T90

MASTER BEDROOM
INTERIOR ELEVATIONS

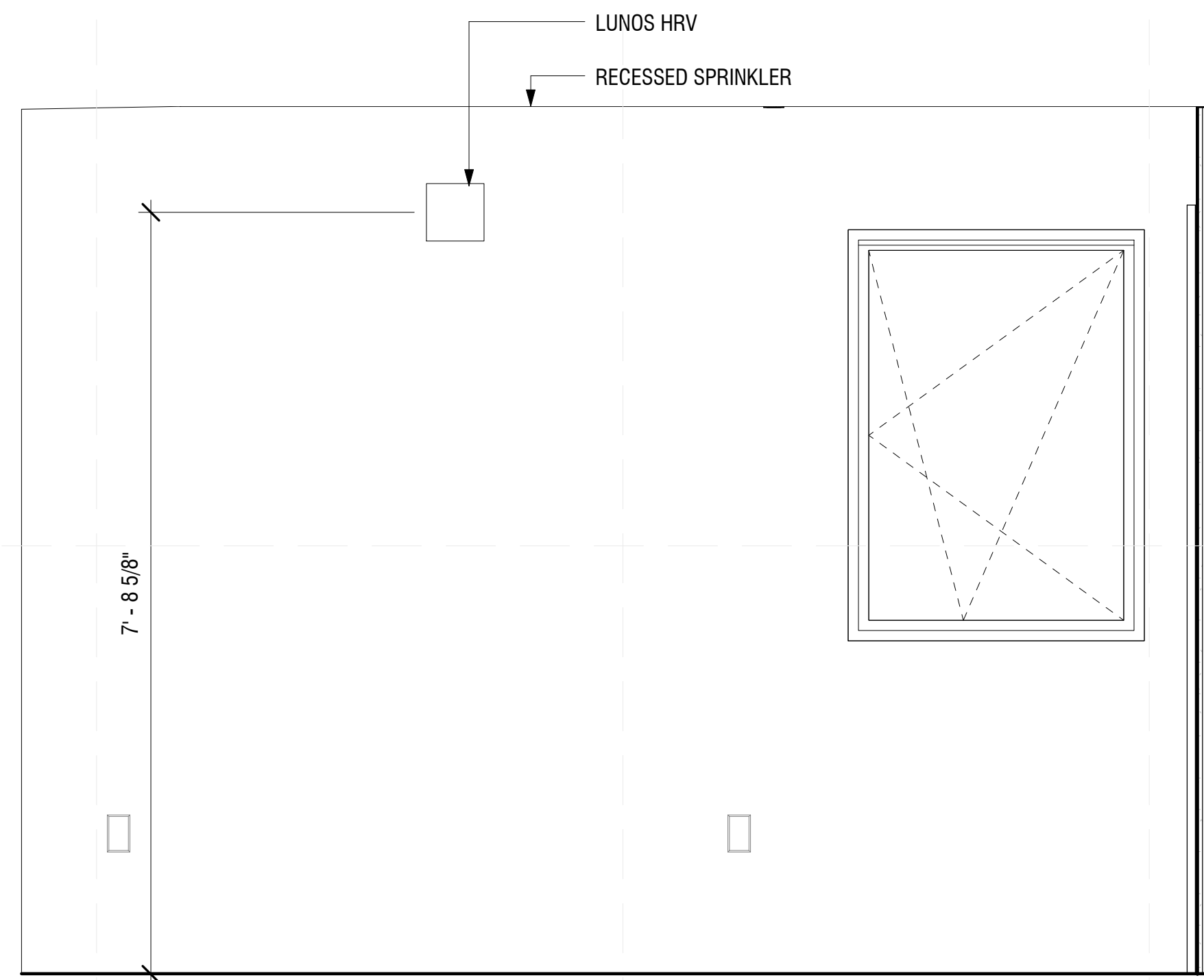
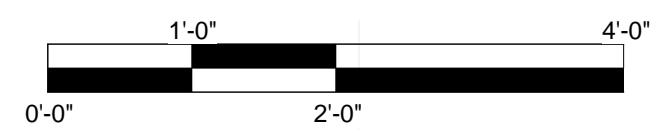
Date 2012/8/1
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I-204

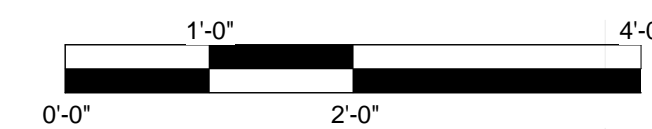
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D1 MASTER BEDROOM EAST
3/4" = 1'-0"

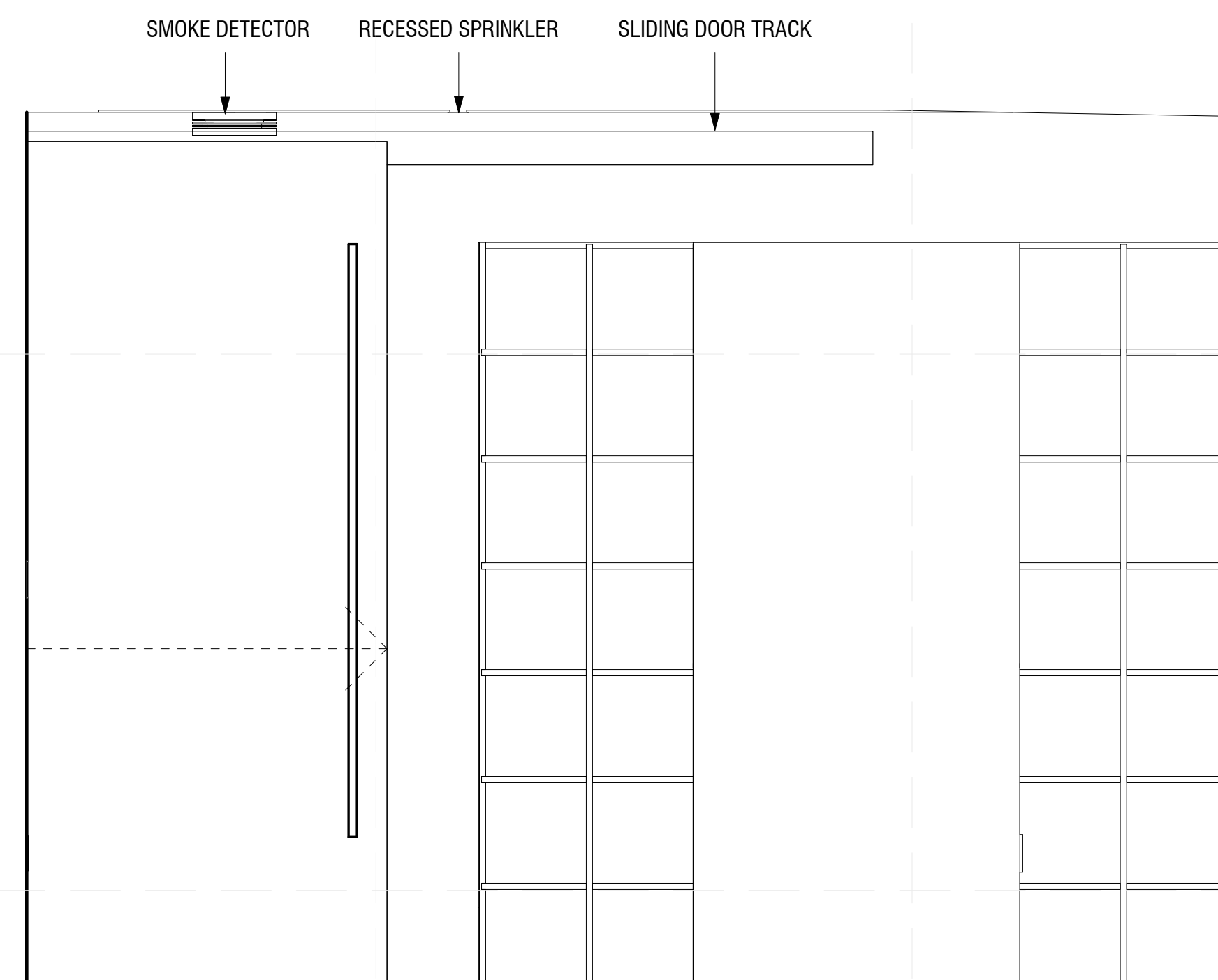


D3 MASTER BEDROOM NORTH
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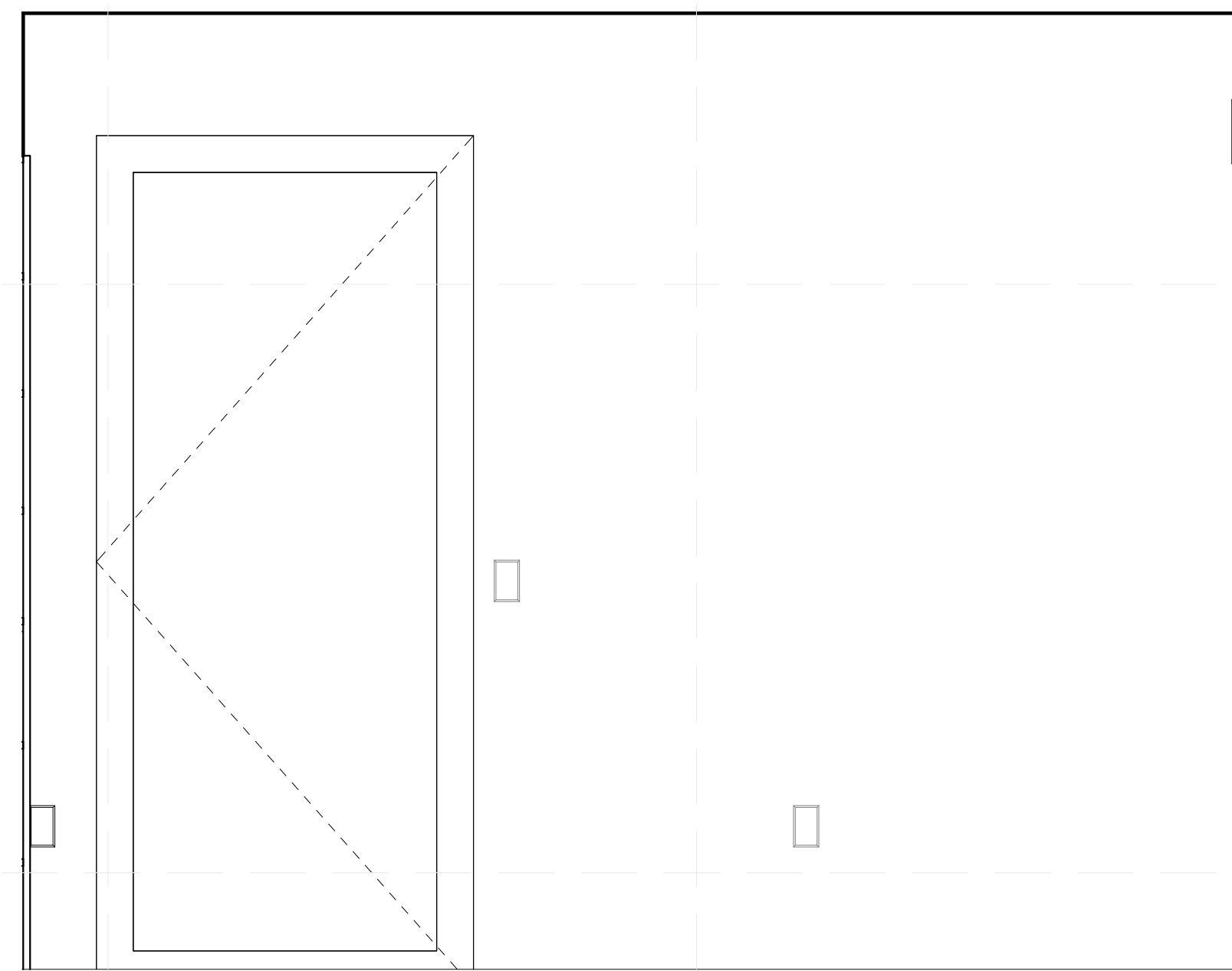
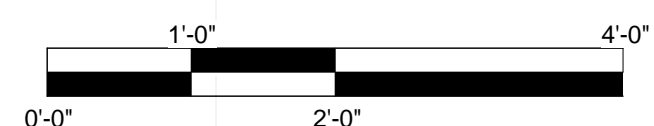


REFERENCE KEYNOTES

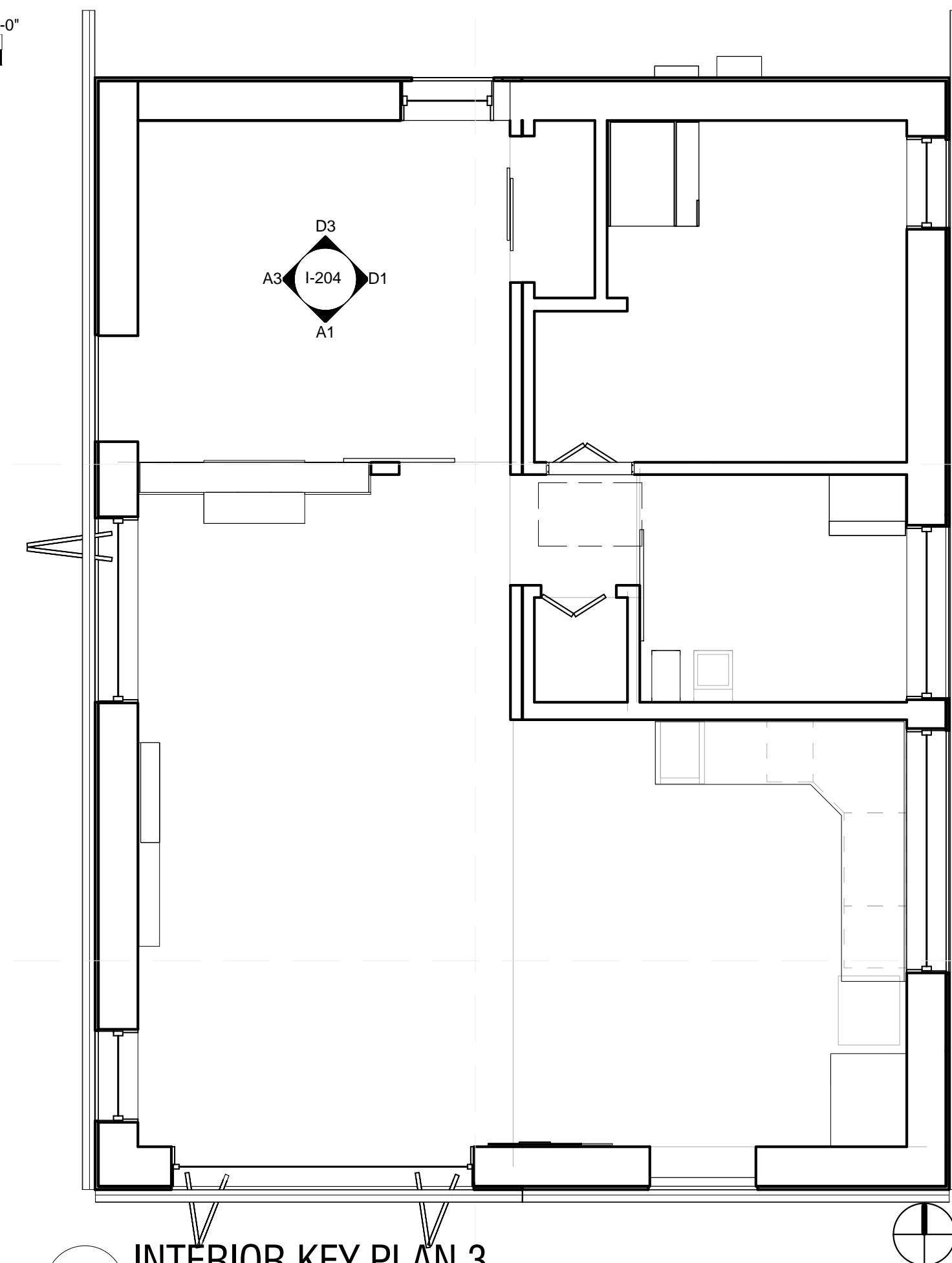
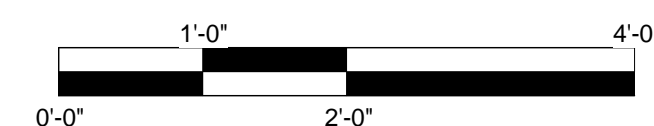
- 12 58 29: BEDS
- 12 58 33: DRESSERS



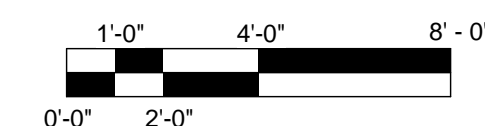
A1 MASTER BEDROOM SOUTH
3/4" = 1'-0"

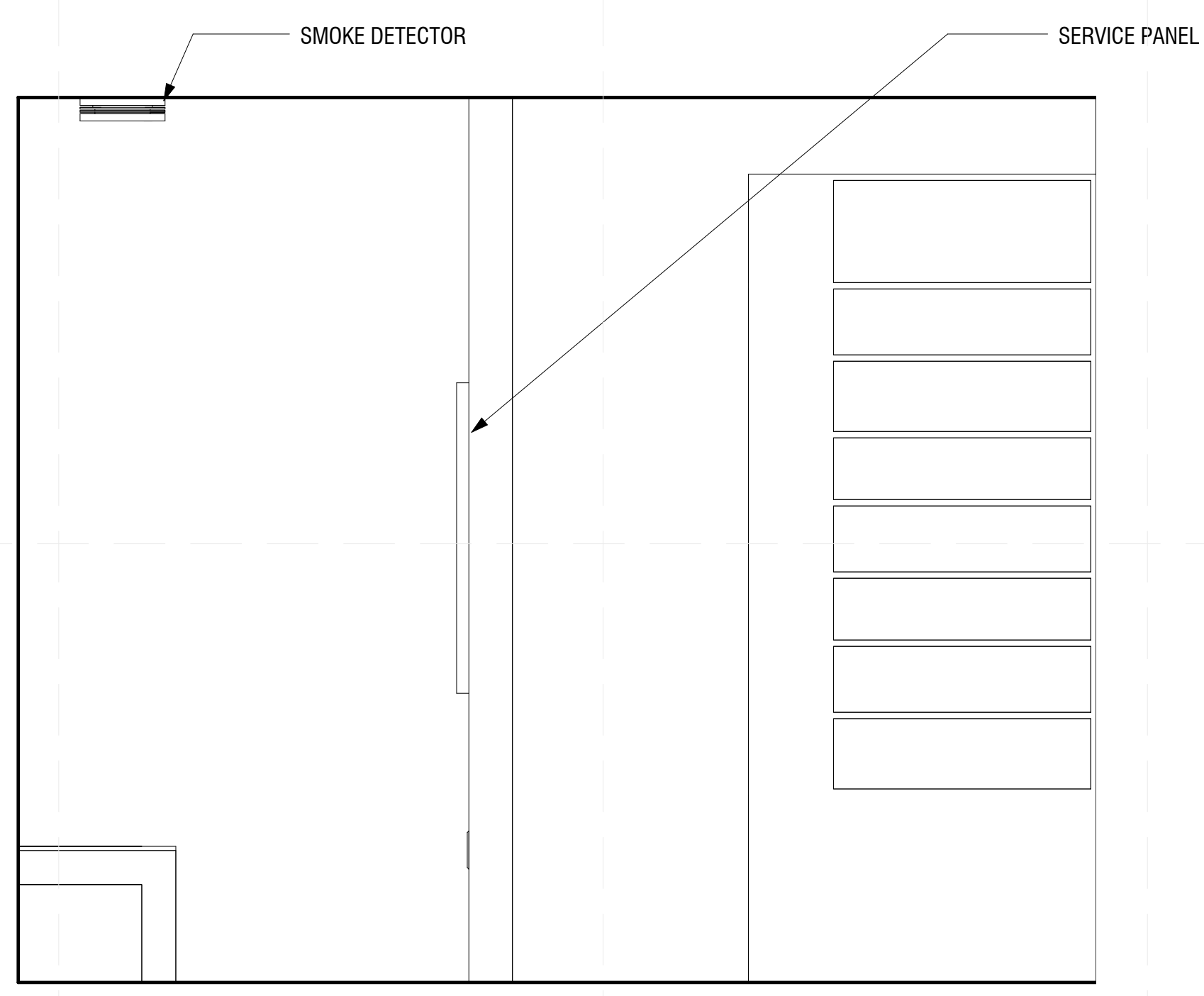
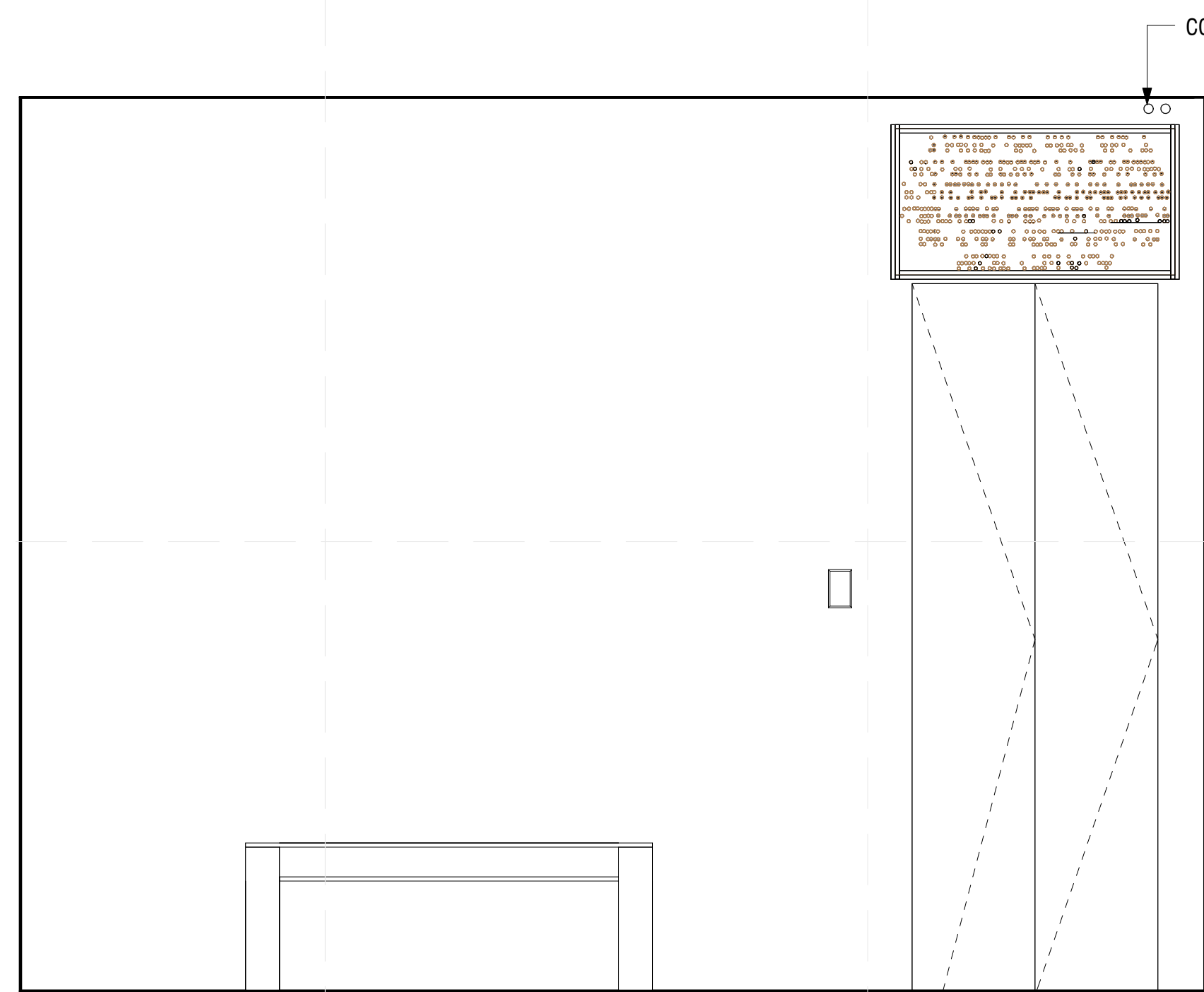


A3 MASTER BEDROOM WEST
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A5 INTERIOR KEY PLAN 3
1/4" = 1'-0"

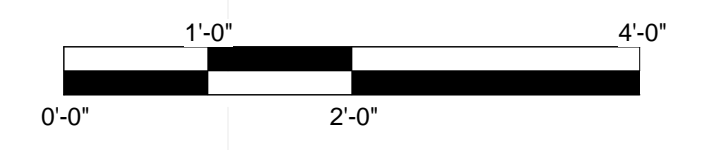




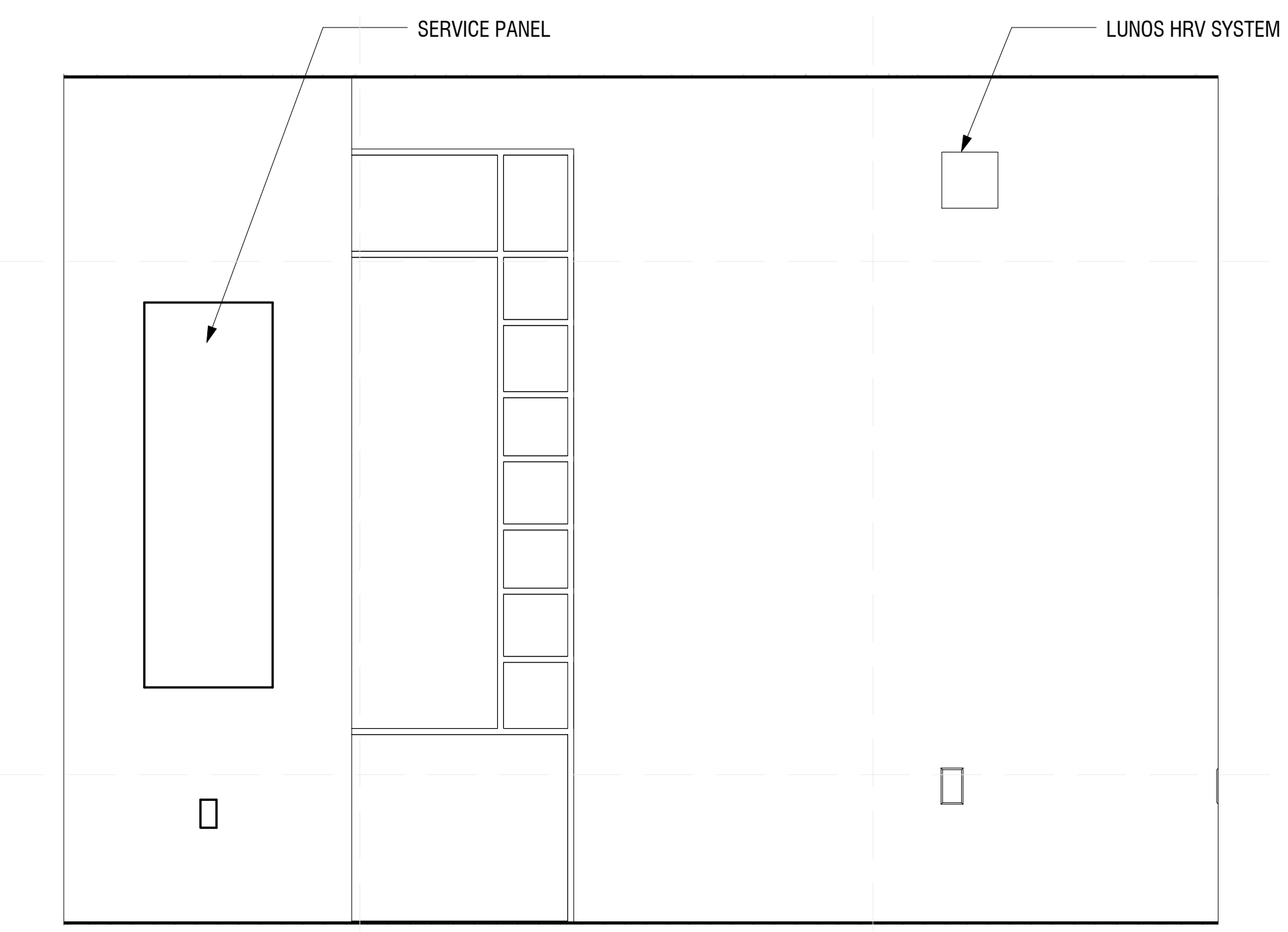
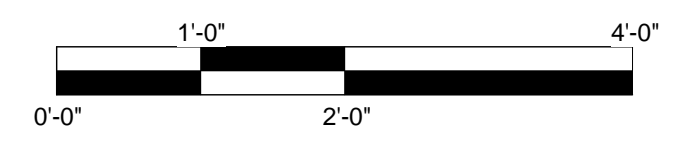
GENERAL SHEET NOTES

- DECKS, RAILINGS, KIOSK, AND EXTERIOR DOOR SWINGS OMITTED FOR CLARITY ON SECONDARY BEDROOM KEY PLAN

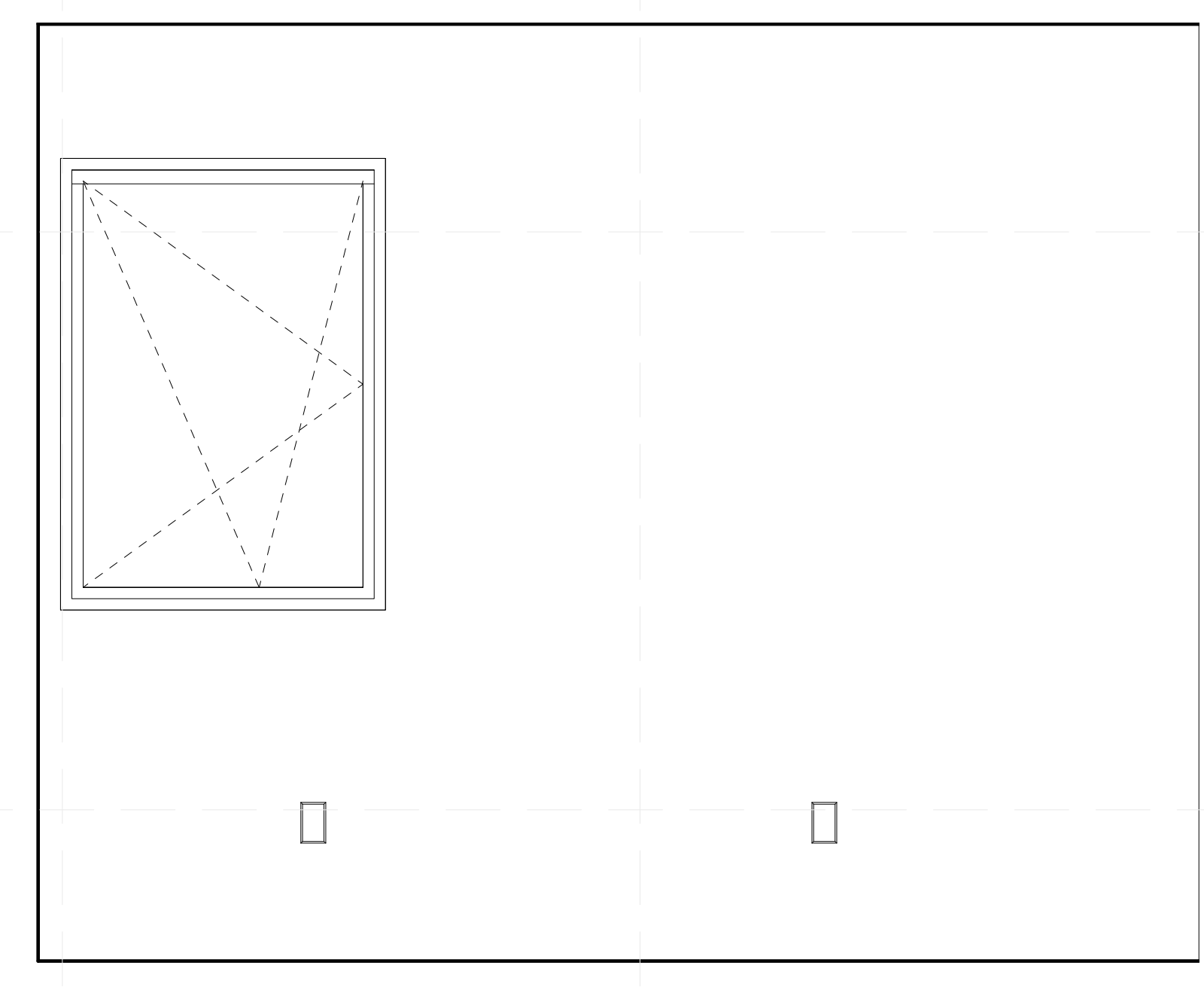
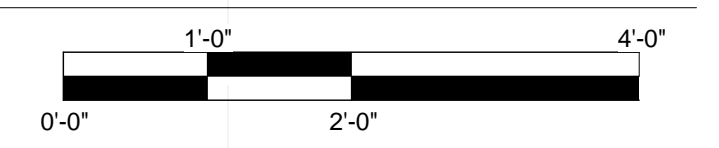
D1 SECONDARY BEDROOM SOUTH
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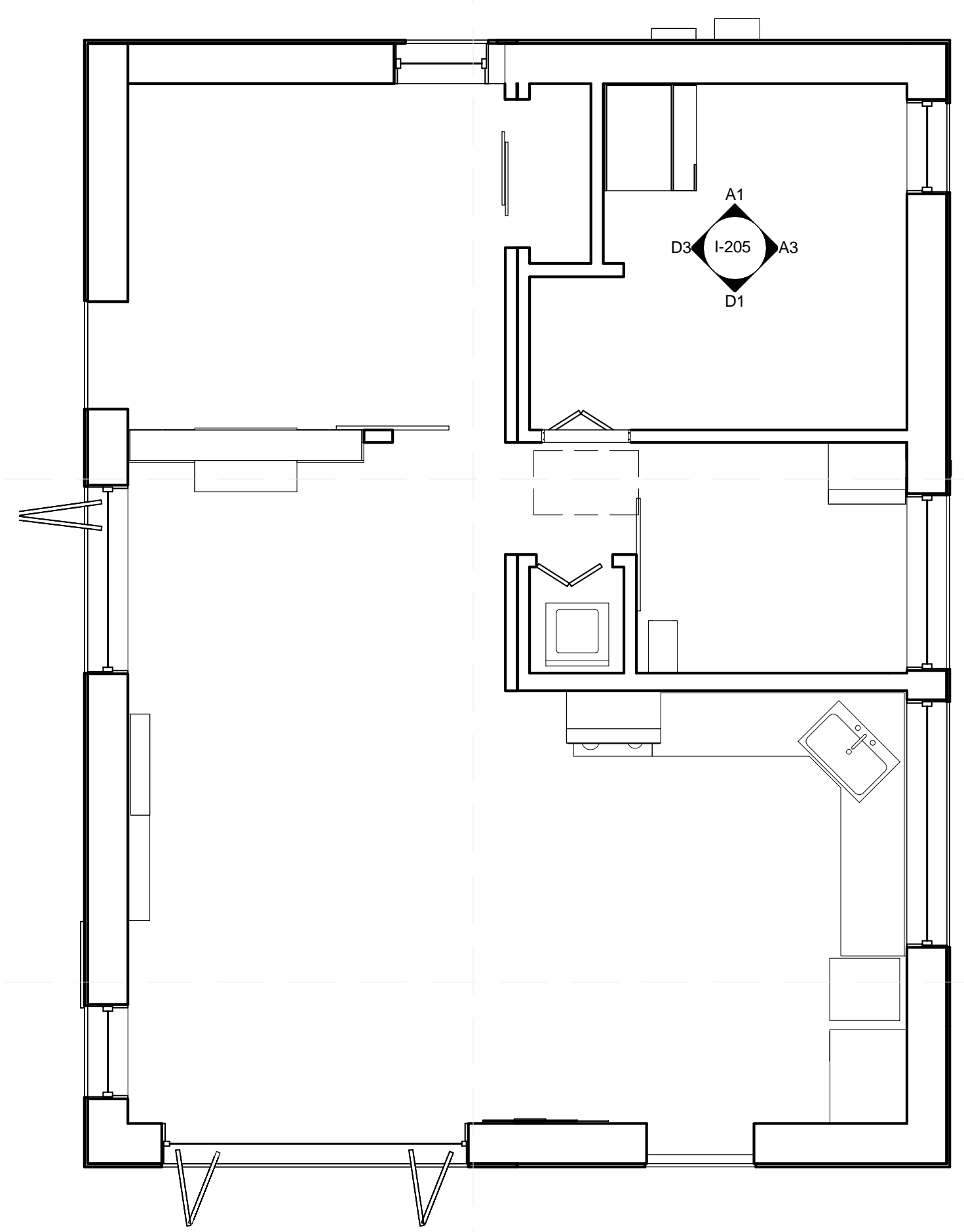
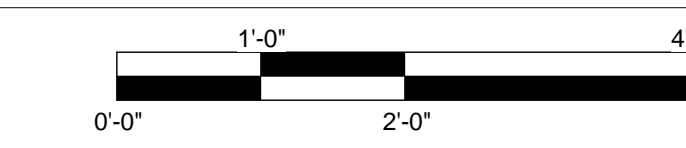
D3 SECONDARY BEDROOM WEST
3/4" = 1'-0"



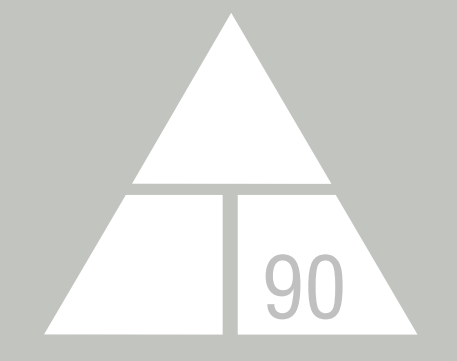
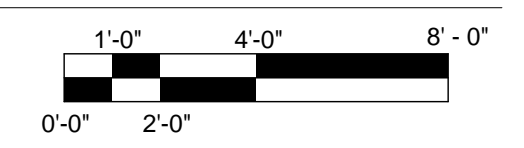
A1 SECONDARY BEDROOM NORTH
3/4" = 1'-0"



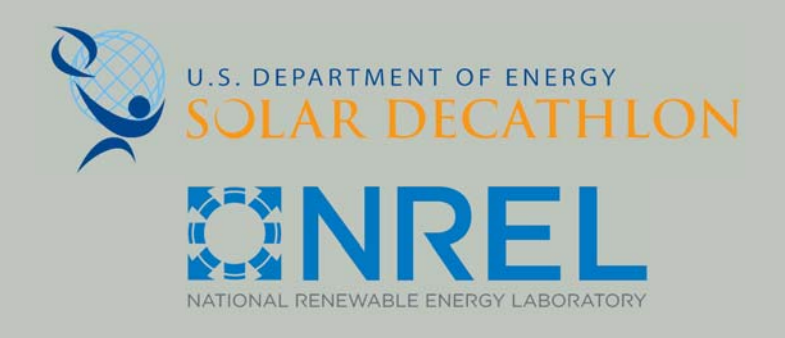
A3 SECONDARY BEDROOM EAST
3/4" = 1'-0"



A6 SECONDARY BEDROOM KEY PLAN
1/4" = 1'-0"



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REVISIONS

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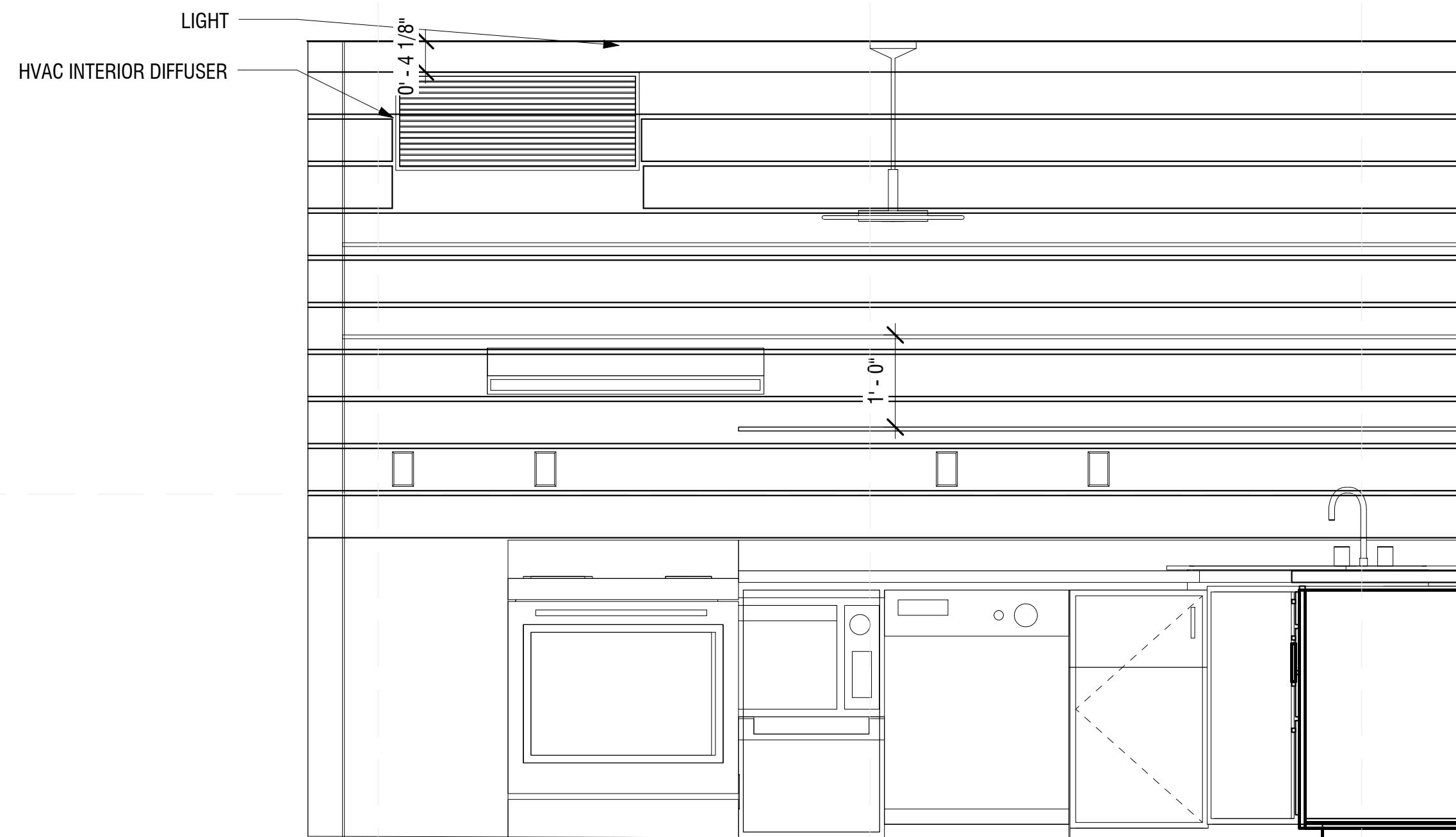
AS BUILT

DELTA T90

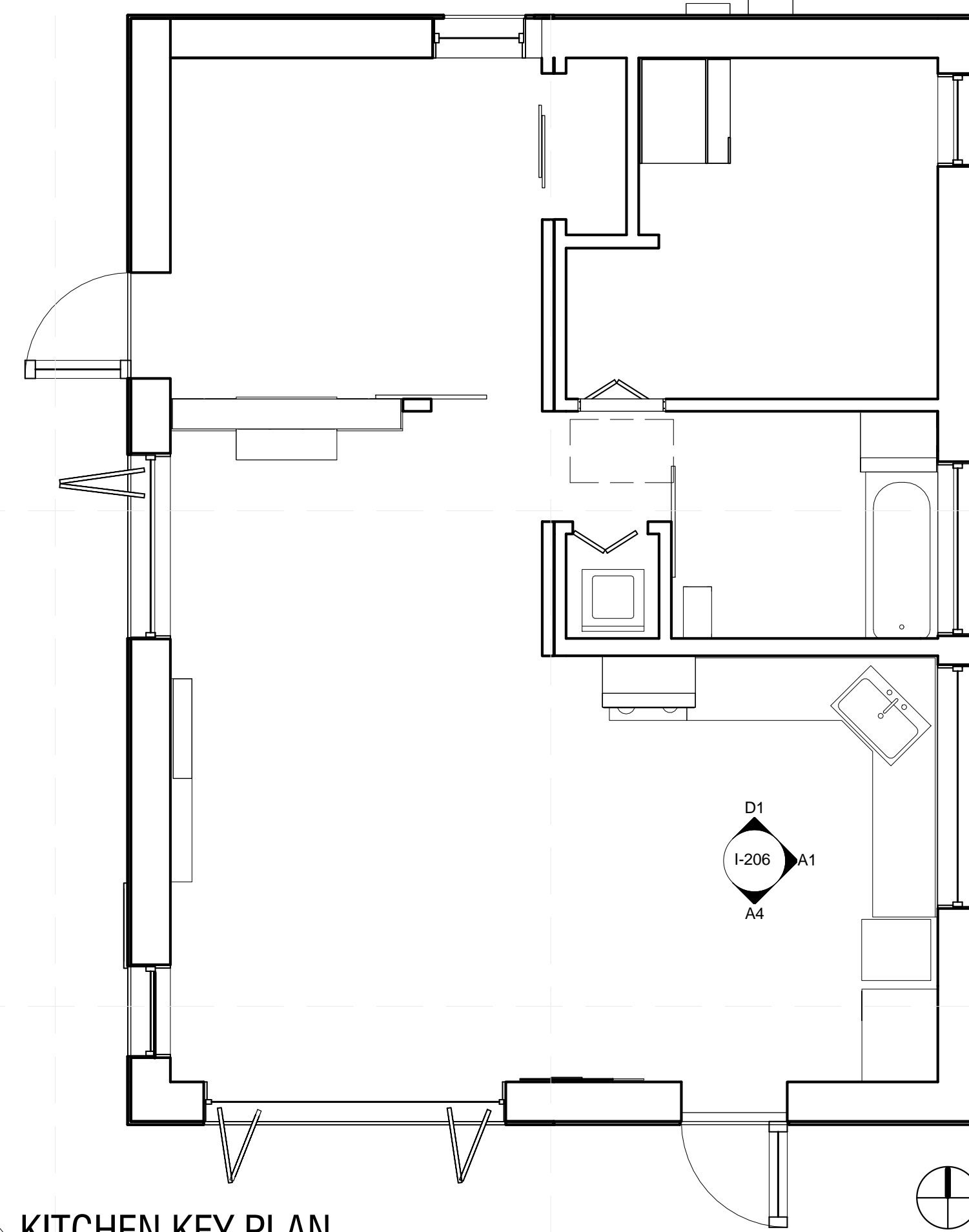
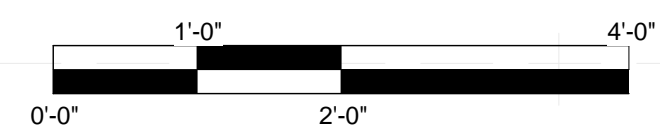
SECONDARY BEDROOM
INTERIOR ELEVATIONS

Date 2012/8/1
Drawn by Author

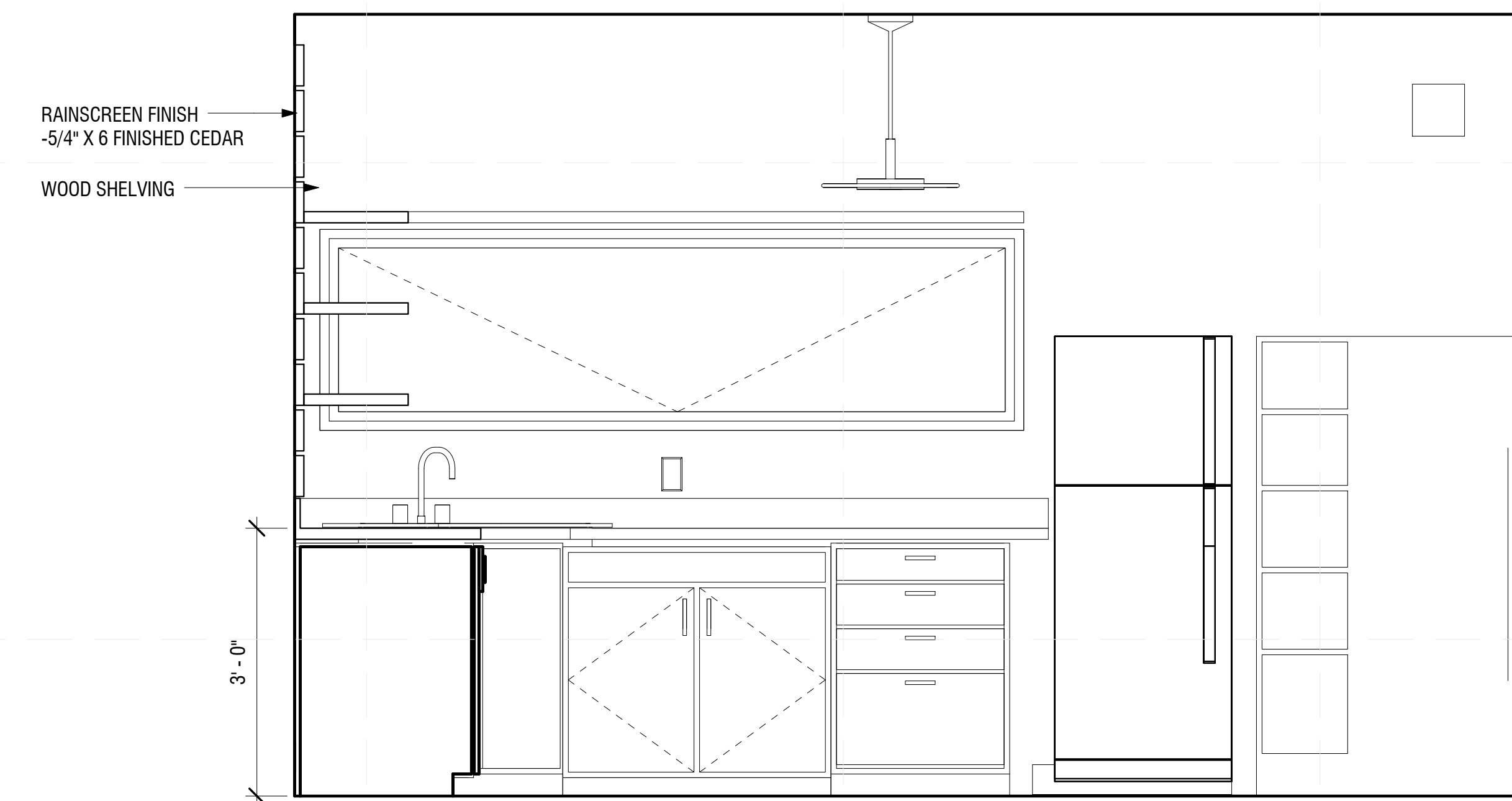
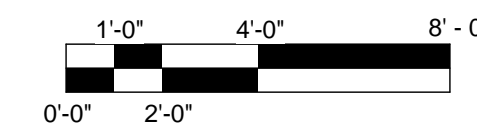
I-205



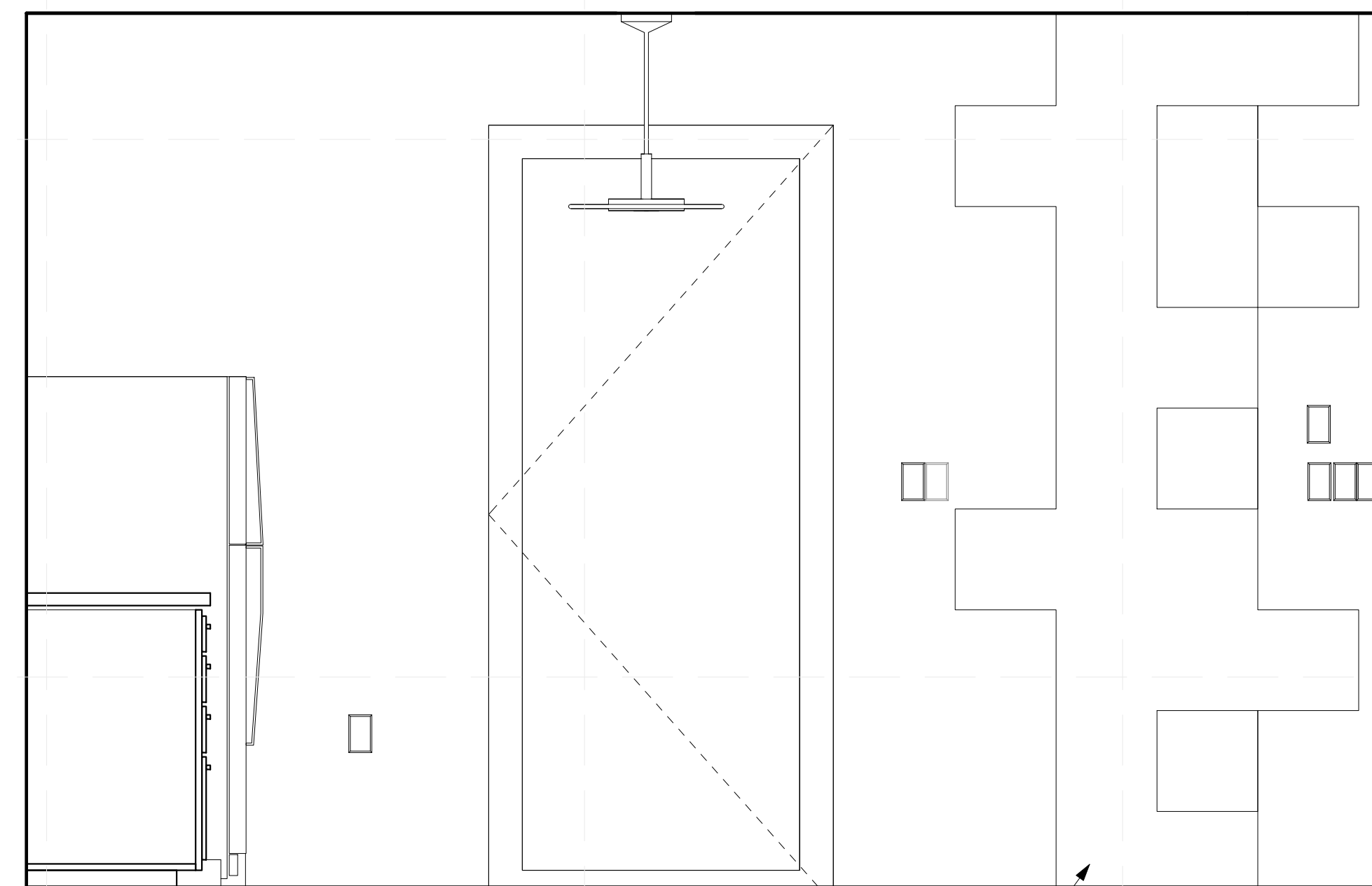
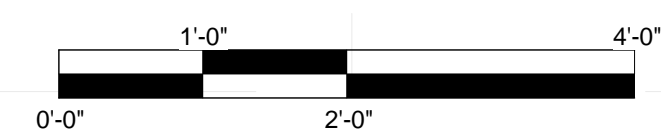
D1 KITCHEN ELEVATION NORTH
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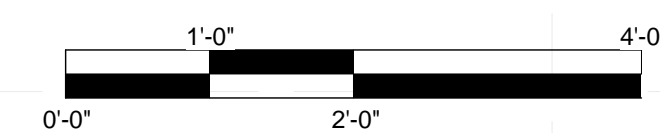
D4 KITCHEN KEY PLAN
1/4" = 1'-0"



A1 KITCHEN ELEVATION EAST
3/4" = 1'-0"



A4 KITCHEN ELEVATION SOUTH
3/4" = 1'-0"

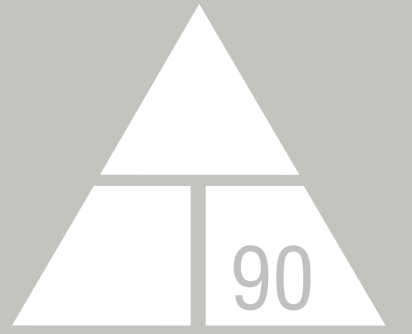


GENERAL SHEET NOTES

- DECKS, RAILINGS, KIOSK, AND EXTERIOR DOOR SWINGS OMITTED FOR CLARITY ON KITCHEN KEY PLAN
- D1 SHELVING OMITTED FOR CLARITY

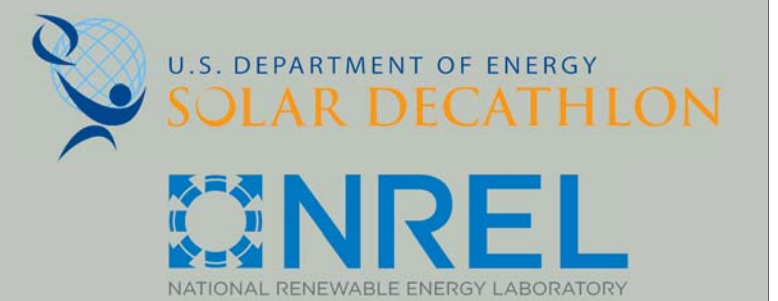
REFERENCE KEYNOTES

- 11 31 13: RESIDENTIAL KITCHEN APPLIANCES
- 12 35 30.31: KITCHEN CASEMENT



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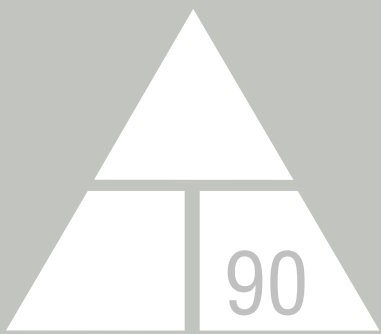
AS BUILT

DELTA T90

KITCHEN ELEVATIONS

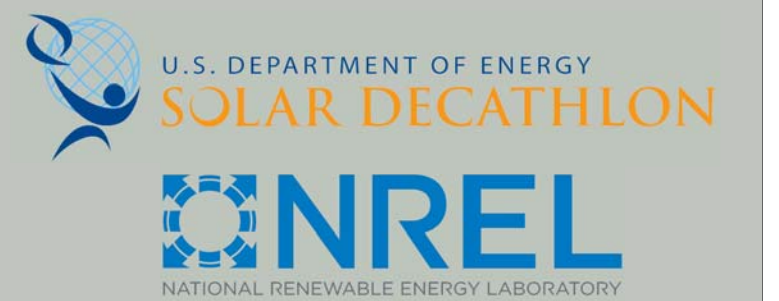
Date 2012/8/1
Drawn by Author

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REVISIONS

No.	Description	Date
1.	SCHEDULE ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

FURNITURE SCHEDULE

Date 2012/8/1
Drawn by Author

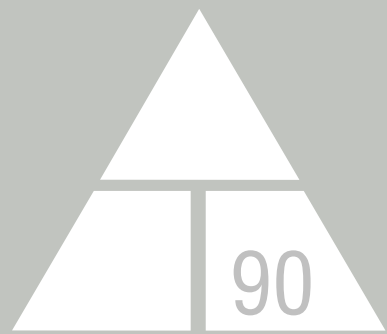
I-504

8/9/2013 11:51:27 PM

FURNITURE SCHEDULE								
Type Mark	Type	HEIGHT	WIDTH	LENGTH	NAME	MANUFACTUER	LOCATION	QTY
1	dining room chair	1' - 1"	2' - 1"	2' - 1"	POCKET CHAIR	RESOURCE FURNITURE	KITCHEN/DINING	4
2	Auxiliary Bedroom Desk	2' - 5 1/2"	3' - 3 3/8"	3' - 0 19/32"	GOLIATH TABLE	RESOURCE FURNITURE		6
5	auxiliary bed	1' - 1 3/4"	3' - 5"	6' - 4 1/2"	SHILOH KIDS TWIN MATES	SOUTH SHORE CENTRAL	AUXILIARY BEDROOM	4
8	Master Bed	0' - 9"	5' - 1 3/4"	6' - 8 1/2"	COPLEY QUEEN PLATFORM	SOUTH SHORE CENTRAL	MASTER BEDROOM	1
9	Dining Room Table	2' - 6"	3' - 0"	3' - 6"	SQUARE METAL LEGS, WOOD TOP	VERMONT FARM TABLE	KITCHEN/DINING	1
10	Ceiling Fan	0' - 10 1/2"	3' - 8"	3' - 8"	60" HAIKU BAMBOO	BIG ASS FAN	LIVING ROOM	1
Grand total: 18								

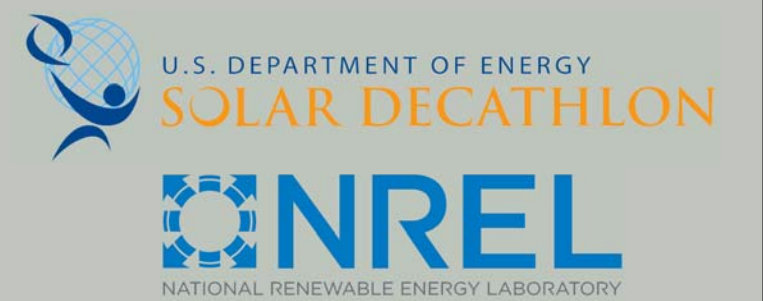
REFERENCE KEYNOTES

- 12 58 00: RESIDENTIAL FURNITURE
- 12 58 19: DINING TABLES AND CHAIRS
- 12 58 26: ENTERTAINMENT CENTERS
- 12 58 36: NIGHTSTANDS



NORWICH UNIVERSITY

158 HARMON DR.
NORTHFIELD
VERMONT 05663



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CONSULTANT: MATTHEW LUTZ
CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

AS BUILT

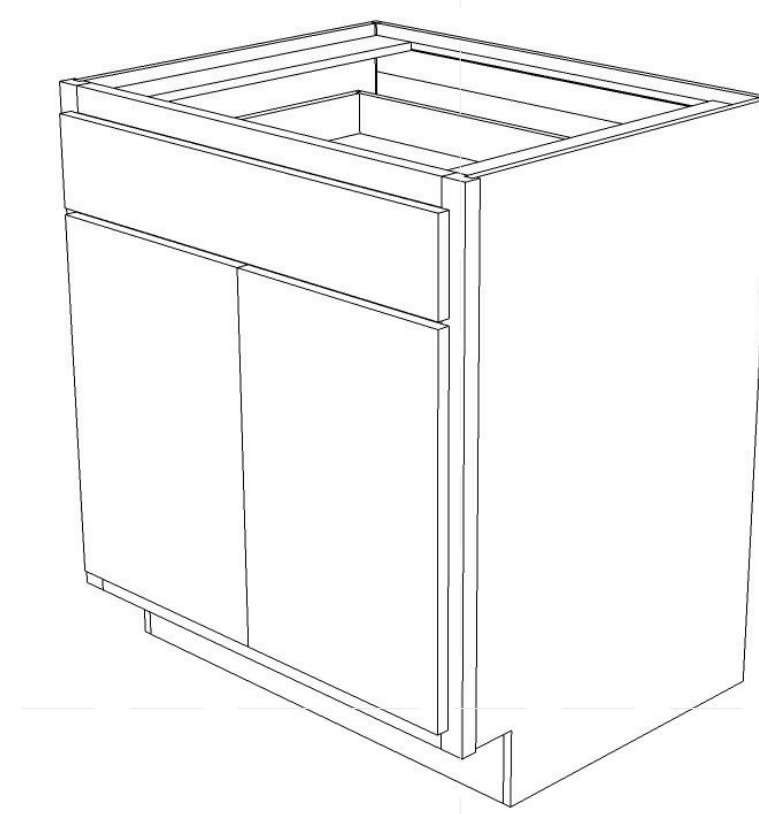
DELTA T90

KITCHEN CASEWORK SCHEDULE

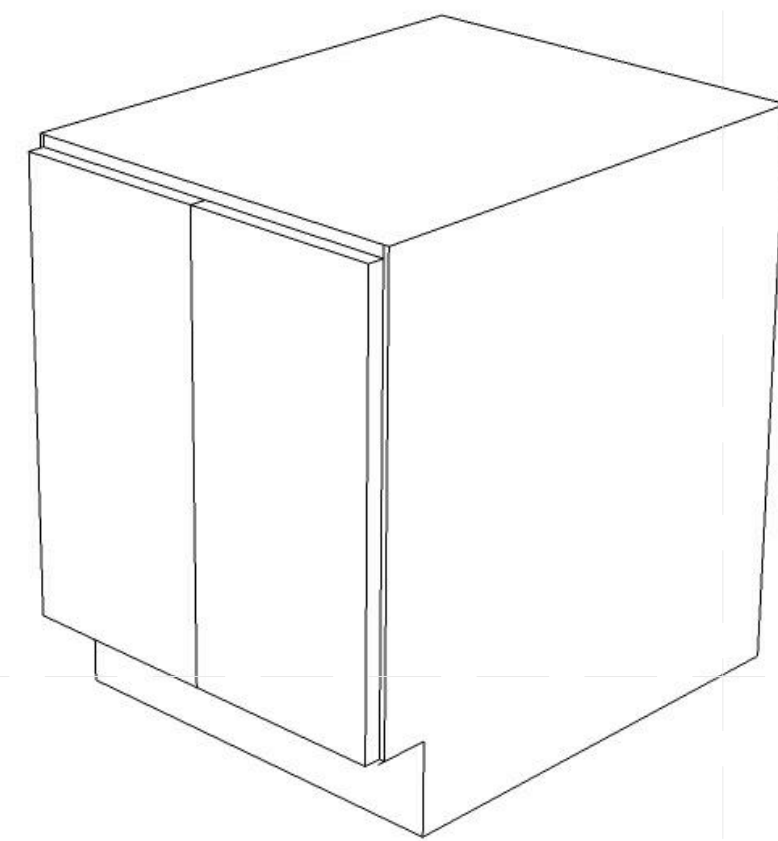
Date 2012/8/1
Drawn by Author

I-505

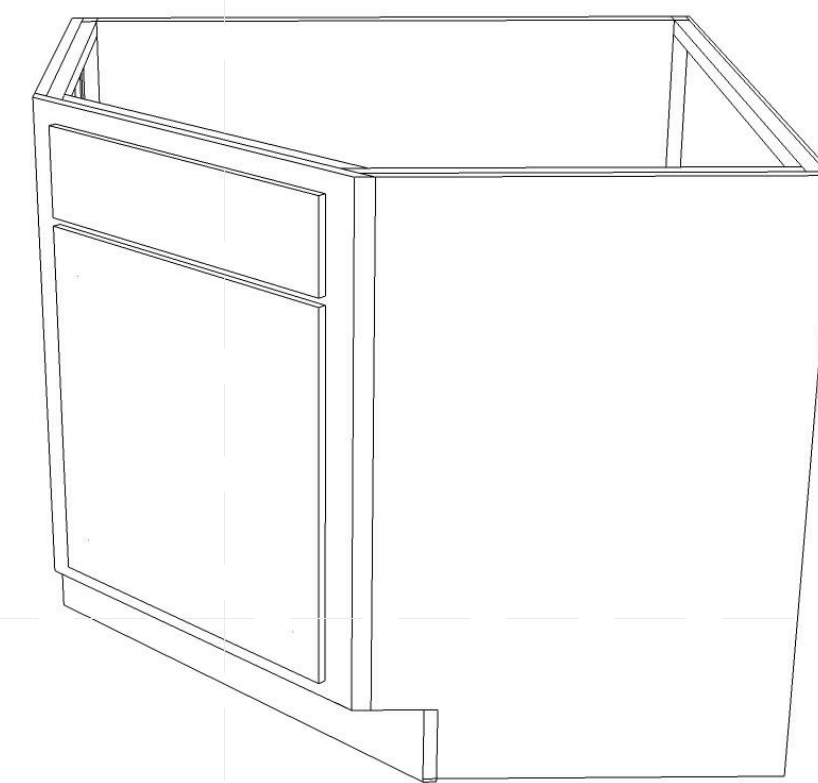
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E1 30" BASE CABINET



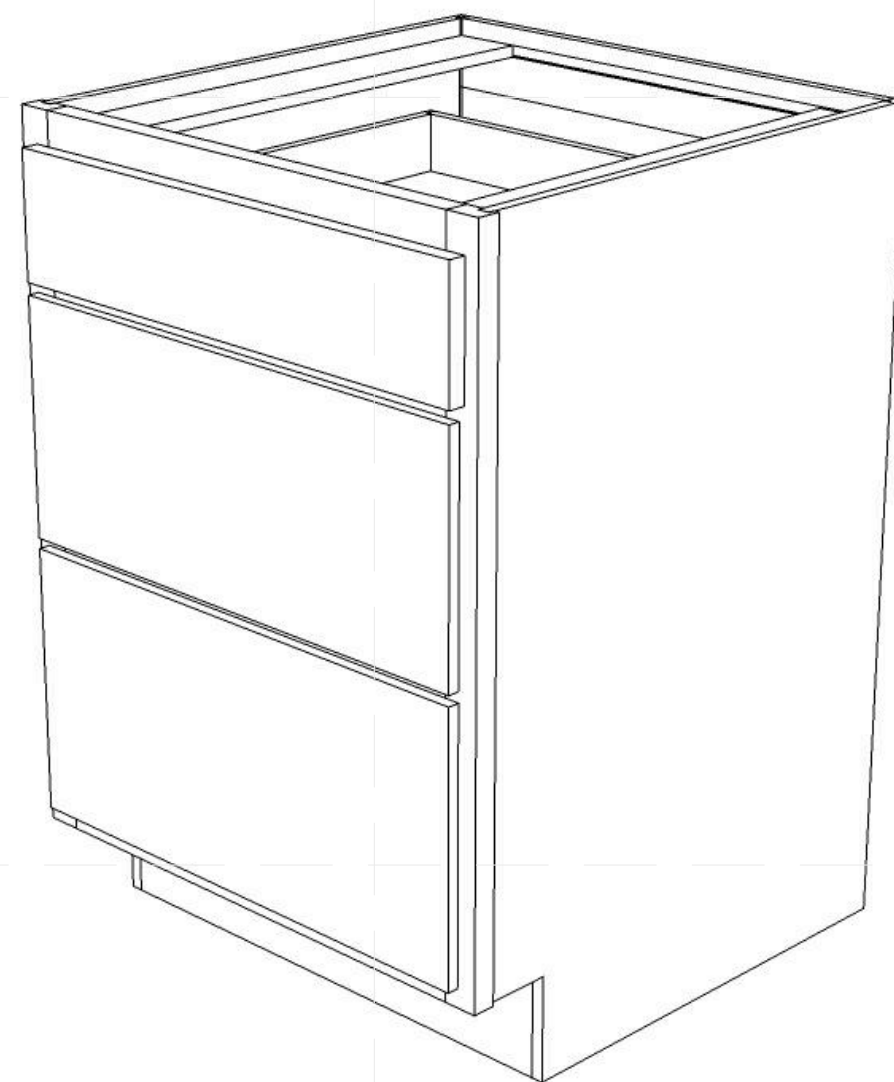
E2 18" BASE CABINET



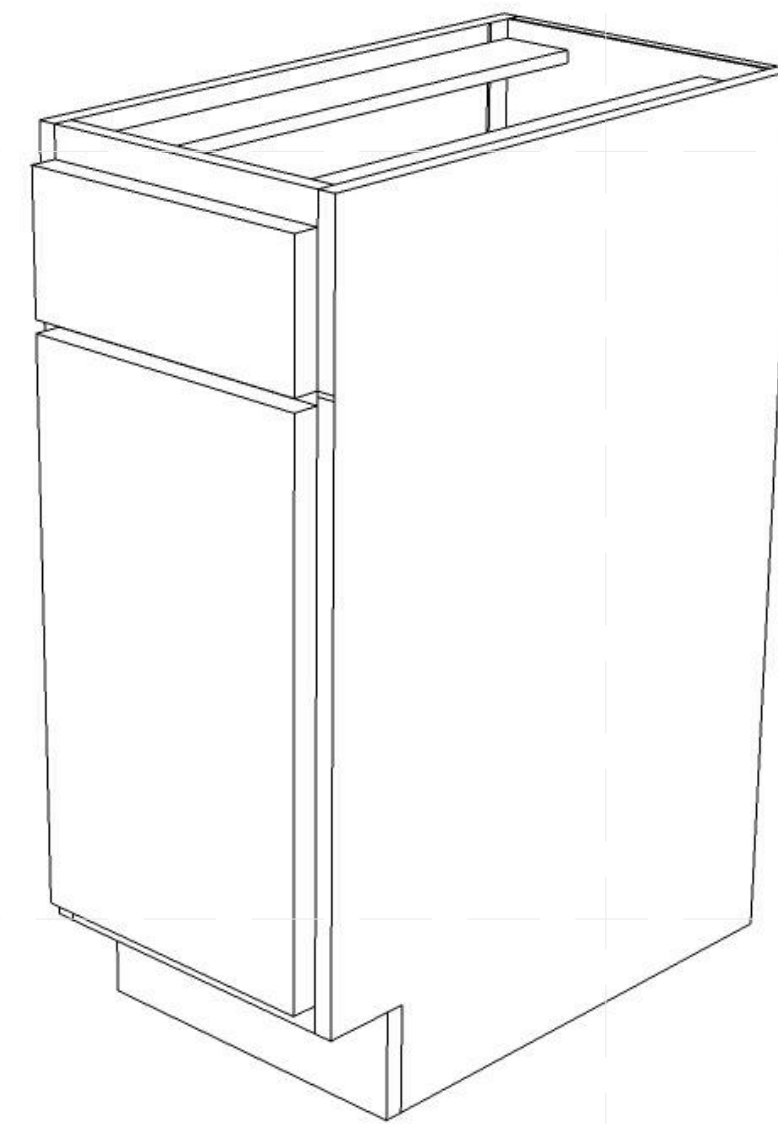
E4 42" CORNER SINK BASE

REFERENCE KEYNOTES

-12 35 30.31 KITCHEN CASEMENT



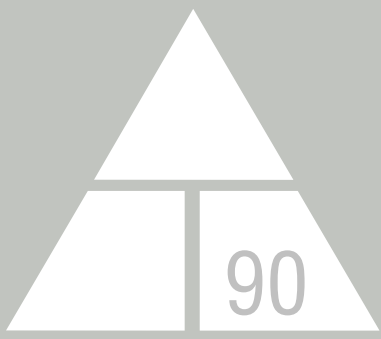
B1 24" BASE CABINET



B2 15" TRASH PULL OUT

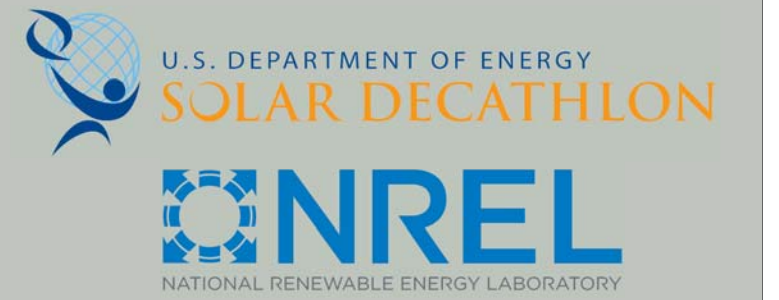
KITCHEN CASEWORK SCHEDULE							
MARK	ROOM NUMBER	ASSEMBLY DESCRIPTION	ROOM NAME	MANUFACTURER	MODEL	FINISH	COLOR
2	9	KITCHEN CABINET	KITCHEN/DINING	HOMECREST	CDSB42	MAPLE	MAPLE
3	9	KITCHEN CABINET	KITCHEN/DINING	HOMECREST	B18FH-L	MAPLE	MAPLE
4	9	KITCHEN CABINET	KITCHEN/DINING	HOMECREST	3DB24	MAPLE	MAPLE
5	9	KITCHEN CABINET	KITCHEN/DINING	HOMECREST	B30B	MAPLE	MAPLE
7	4	CUSTOM OFFICE WALL	OFFICE	CUSTOM	CUSTOM	AC PLYWOOD	PINE

Grand total: 13



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REVISIONS

No.	Description	Date

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DELTA T90

GENERAL NOTES & LIST

Date 2012/8/1
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F-001

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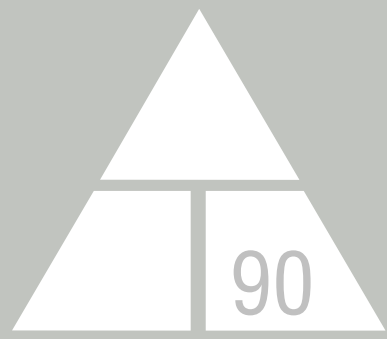
FIRE SUPPRESSION SHEET LIST	
SHT NO	SHEET NAME
F-001	GENERAL NOTES & LIST
F-101	FIRE DETECTION AND ALARM RCP
F-102	FIRE SUPPRESSION PLAN
F-601	FIRE SUPPRESSION SCHEDULE & ISOMETRICS

	CARBON MONOXIDE MONITOR
	SMOKE DETECTOR/CO2
	SPRINKLER HEAD

 FIRE PROTECTION LEGEND

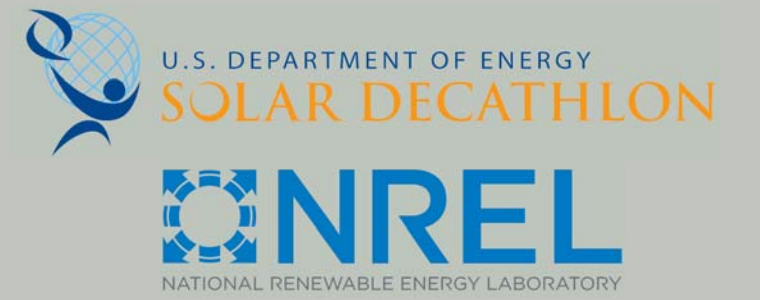
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REVISIONS

No.	Description	Date
1.	REVEAL HIDDEN ELEMENTS	4/1/13

AS BUILT

DELTA T90

FIRE DETECTION AND
ALARM RCP

Date 2012/8/1
Drawn by Author

F-101




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GENERAL SHEET NOTES

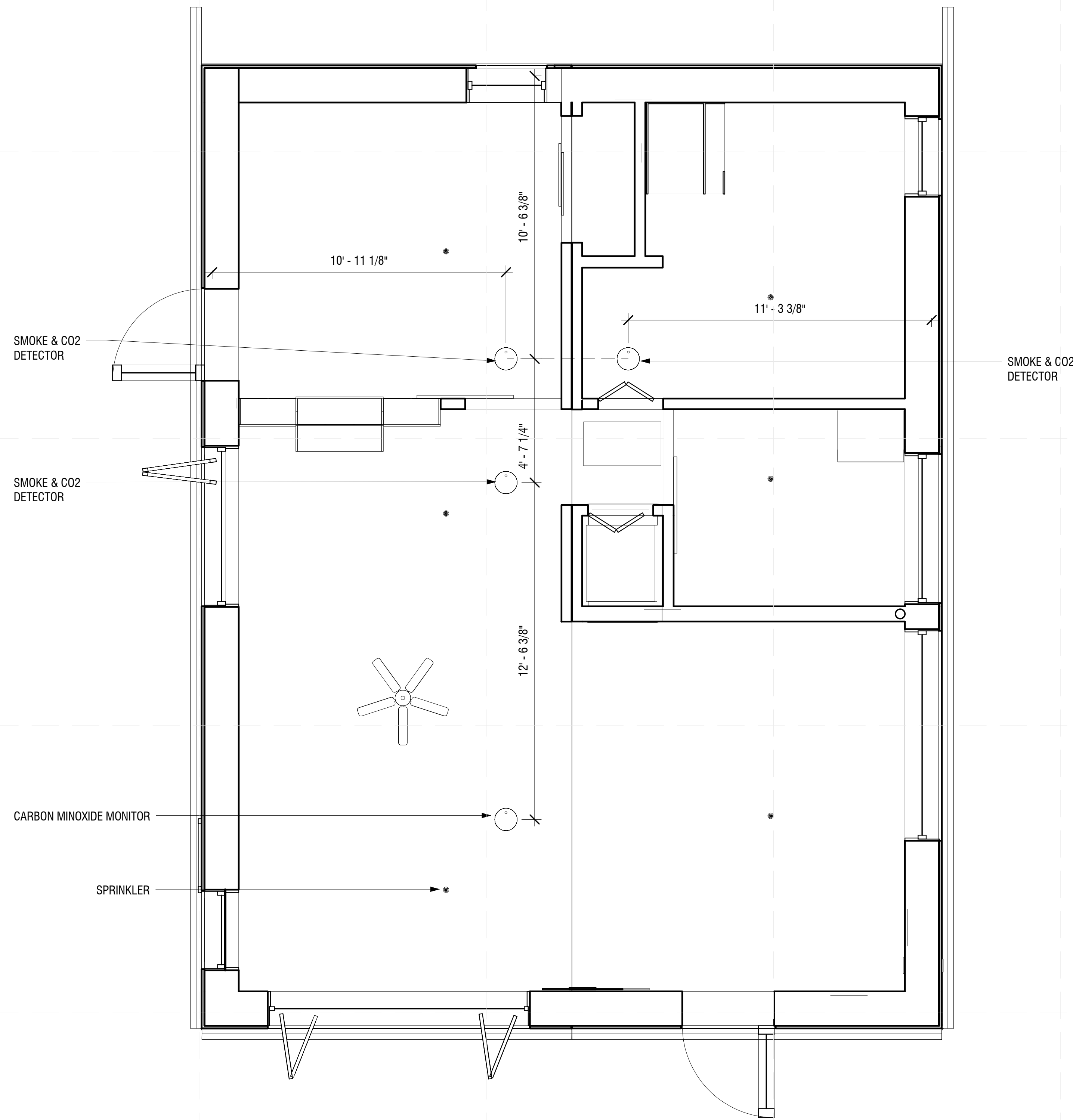
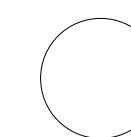
-DECKS, RAILINGS, WATER TANKS, WATER TANK
SHADING DEVICES, AND LANDSCAPE OMITTED FOR
CLARITY
-ALL DIMENSIONS ARE TAKEN FROM OUTSIDE FACE OF
STUD

REFERENCE KEYNOTES

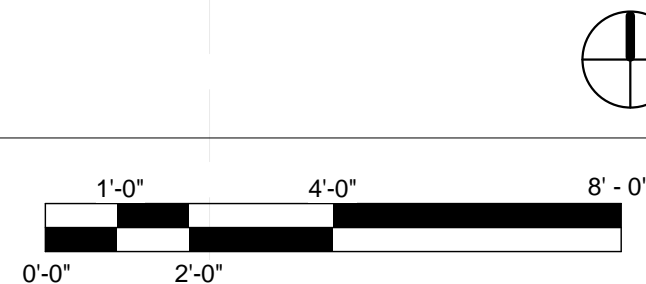
-DIVISION 21: FIRE SUPPRESSION

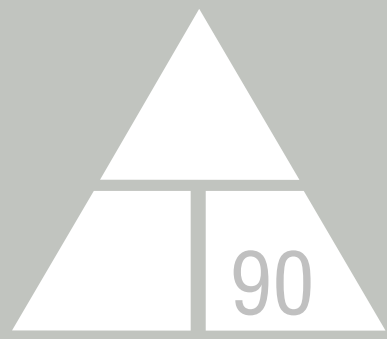
-  CARBON MINOXIDE MONITOR
-  SMOKE DETECTOR/CO2
-  SPRINKLER HEAD

FIRE PROTECTION LEGEND

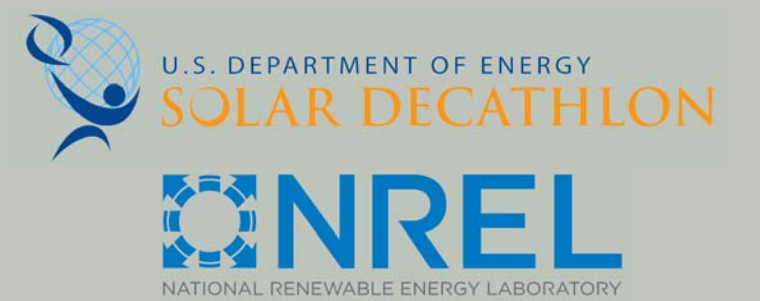


A2 SMOKE AND CO2 ALARM RCP
3/8" = 1'-0"





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REVISIONS

No.	Description	Date
1.	LABELING ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

FIRE SUPPRESSION PLAN

Date 2012/8/1
Drawn by Author

F-102

REFERENCE KEYNOTES

-DIVISION 21: FIRE SUPPRESSION

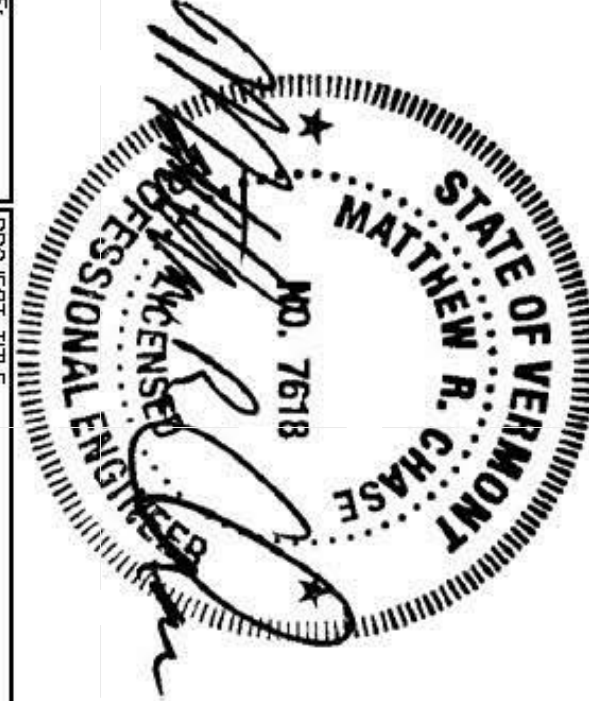
LEGEND

- ▲ HORIZONTAL, NON-CANCELLED SIGNAL SPRINKLER HEAD, 1/2" NPT THREAD, 150°F F, K = 4.4, PAINTED WHITE, MAXIMUM SPACING 14'-7" SPACING @ 13' ON CENTER, MINIMUM SPACING 10'-0" SPACING @ 13' ON CENTER, NON-CANCELLED SIGNAL SPRINKLER (QUANTITY 1) (SEE VARIOUS)
- HORIZONTAL, CANCELLED SIGNAL SPRINKLER HEAD, 1/2" NPT THREAD, 150°F F, K = 4.4, PAINTED WHITE, MAXIMUM SPACING 14'-7" SPACING @ 13' ON CENTER, MINIMUM SPACING 10'-0" SPACING @ 13' ON CENTER, CANCELLED SIGNAL SPRINKLER (QUANTITY 9) (SEE VARIOUS)

NOTES - SPECIAL

THIS SPRINKLER SYSTEM IS DESIGNED TO BE DEPENDANT ON THE CITY WATER SUPPLY. THE SYSTEM SHALL BE INSTALLED AFTER THE COMPLETION OF THE BUILDING TO BE PROTECTED. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY WATER SUPPLY. THE SYSTEM SHALL BE INSTALLED AND FINISHED.

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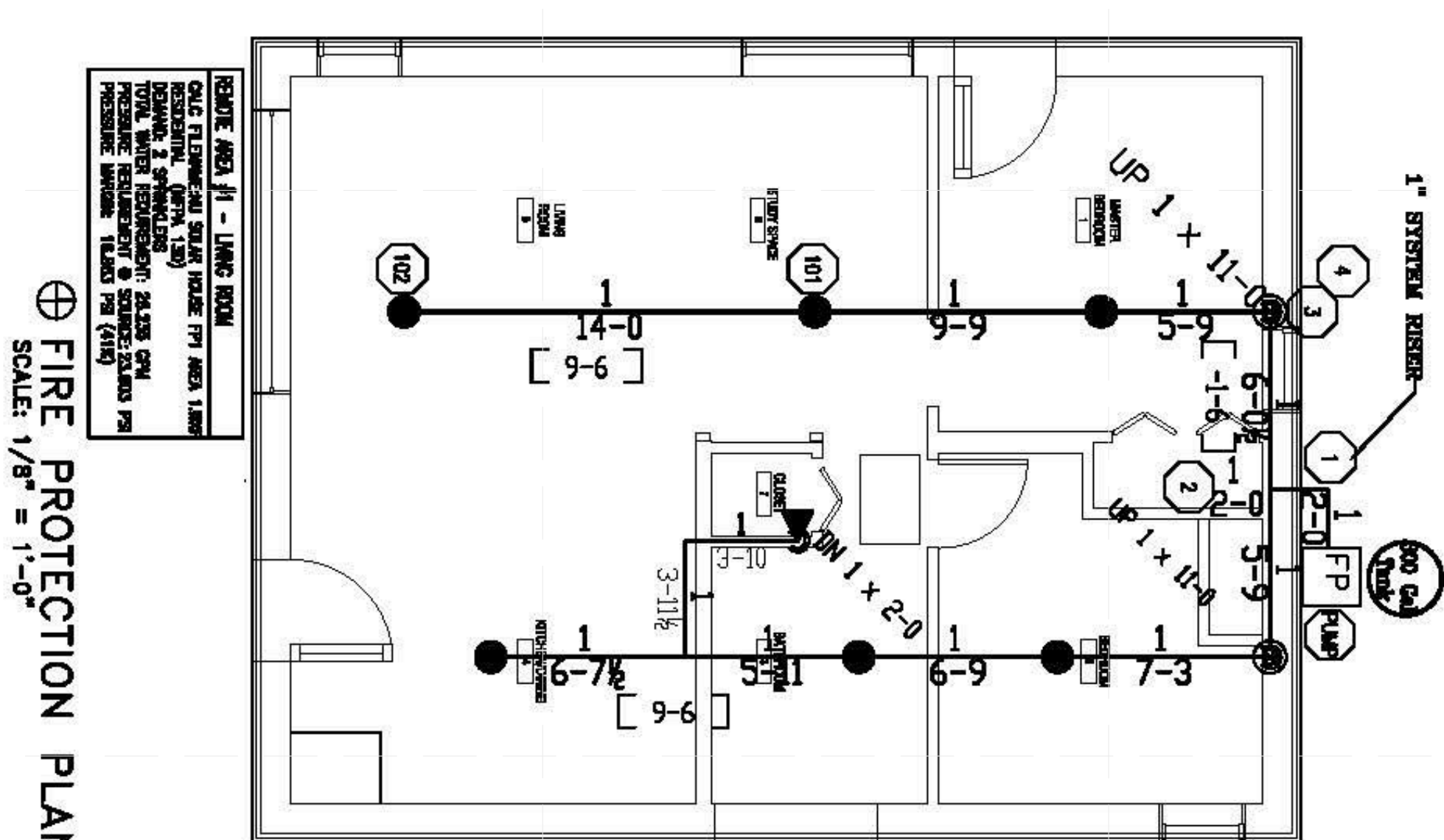
DATE: AUG. 8, 2013	PROJECT TITLE: FIRE PROTECTION PLAN
PROJECT NO.: 12098	PROJECT NO.: 12098
DRAWING NO.: FP-1	DRAWING NO.: FP-1
PROJECT LOCATION: NORTHFIELD, VERMONT	PROJECT LOCATION: NORTHFIELD, VERMONT
CHECKED BY: MRC	APPROVED PROJECT DIRECTOR:
DRAWN BY: MRC	APPROVED PROJECT DIRECTOR:

NORTH COUNTRY FIRE PROTECTION, INC.
PO BOX 2004, COLCHESTER, VERMONT 05448 (802) 878-8594

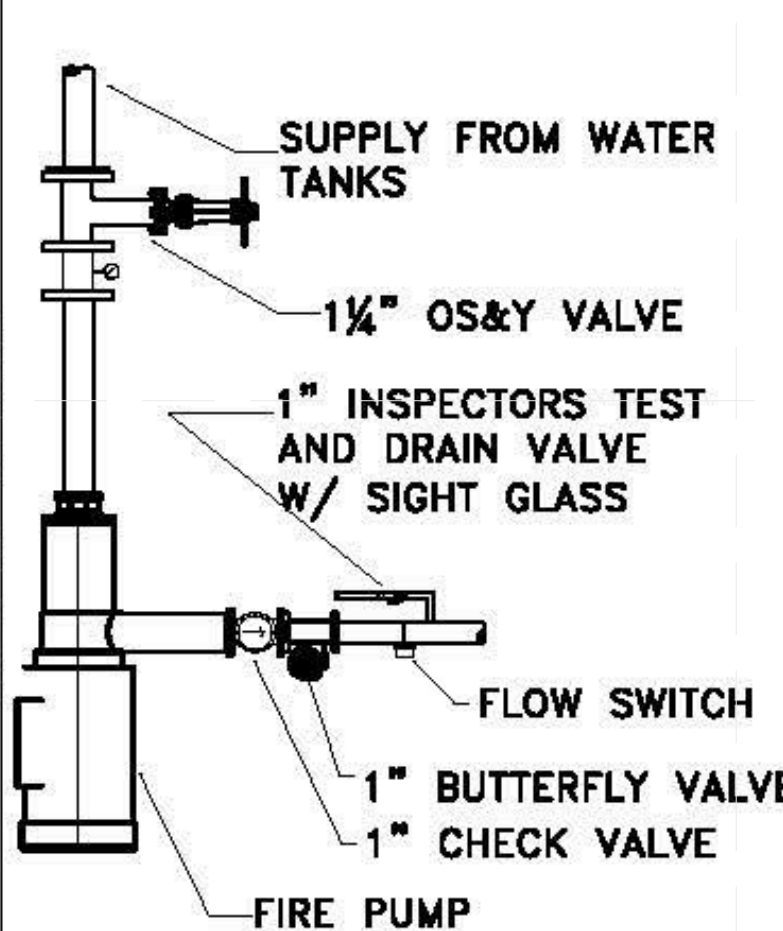
CHASE ENGINEERING, PC
34 CHELSEA ROAD
ESSEX, VT 05452
(802) 893-7900

SOLAR DECATHLON

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



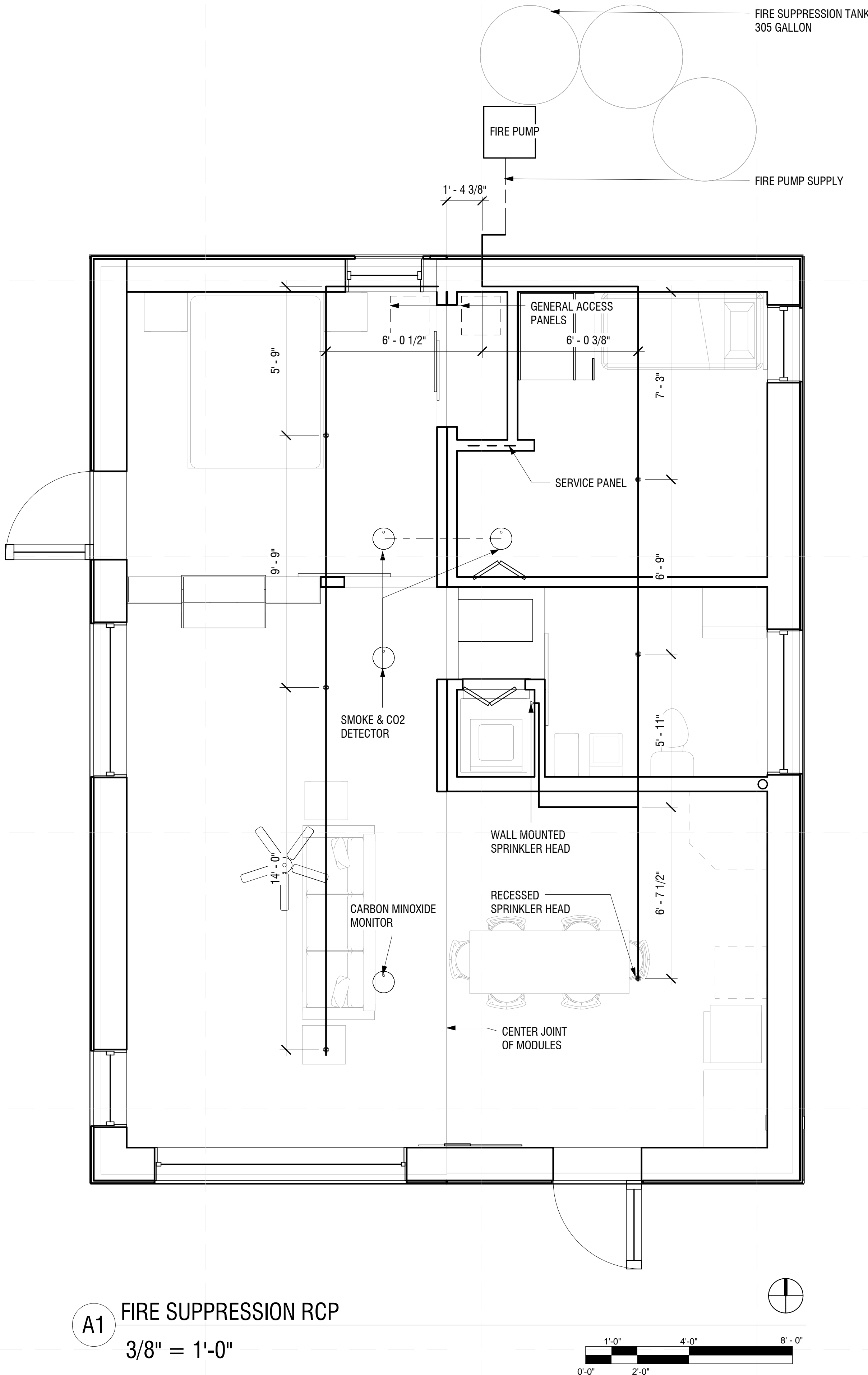
⊕ FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"



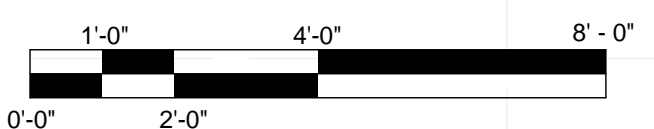
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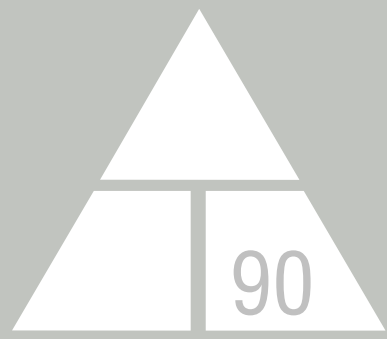
NOTES - GENERAL

1. THE EQUIPMENT AND INSTALLATION SHALL BE IN CONFORMANCE WITH ALL CITY, STATE AND FEDERAL CODES, LAWS AND REGULATIONS AS WELL AS NATIONAL FIRE PROTECTION ASSOCIATION STANDARD NFPA 13.
2. EQUIPMENT MATERIALS, DEVICES SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE IN AUTOMATIC SPRINKLER SYSTEMS, EXCEPT AS NOTED IN NFPA 13.
3. WATER SUPPLY SHALL BE BASED ON A NEW FIRE PUMP AND 500 GALLONS OF WATER STORAGE (10 MINUTE DURATION). THE FIRE PUMP SHALL BE CONFORMANCE WITH THE 1.0 HP DESIGN CLASS MODEL F100-518 150 FIRE PUMP AND SHALL BE BASED AS FOLLOWS:
CAPACITY: 50 GPM @ 30 GPM
4. SPRINKLER HEADS SHALL BE NEW, DESIGNED FOR 175 PSI WORKING PRESSURE, CONFORMANCE TO LISTED MODEL, DESIGNED FOR 175 PSI WORKING PRESSURE, CONFORMANCE TO LISTED REGULATIONS. THE PUMP SHALL BE CHECKED BY SCOTT-TITE FIRING IN ACCORDANCE WITH LISTED 150 AND 175. SPRINKLER HEADS SHALL BE PROVIDED WITH A 1/2" NPT CONNECTION TO THE RISER PIPE. THE RISER PIPE SHALL BE PROVIDED TO PROTECT FIRING FROM FIRING EXPOSURE TO NON-CANCELLED MATERIALS.
5. IF IN THE COURSE OF RESPONSIBILITY TO MAINTAIN ABSOLUTE BEST THROUGHOUT OUT ALL AREAS WITH 1/2" NPT SPRINKLER HEADS TO PREVENT FIRE.
6. ALL PIPING SHALL BE SUPPORTED BY HANGERS OF ALL LISTED HANGERS, SHOWN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13.
7. ALL PIPING SHALL BE SUPPORTED BY HANGERS OF ALL LISTED HANGERS, SHOWN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13.
8. APPROXIMATE SPRINKLER HEADS AND SPRINKLER HEAD WEIGHTS SHALL BE PROVIDED IN A CABINET INSTALLED WITH THE SPRINKLER HEAD.
9. SPRINKLER HEADS SHALL BE INSTALLED WITH THEIR DETECTOR PARALLEL TO THE CEILING.
10. SYSTEM CONTROL VALVES SHALL BE LOCATED IN THE OPEN POSITION OR SUPERVISED BY AN ALARM SYSTEM.
11. FLOW SWITCH SHALL BE INSTALLED TO AN EXTENSION WATER FLOW ALARM BELL AND WIRING TO BUILDING ALARM SYSTEM IF PROVIDED.
12. SPRINKLER PROTECTION SHALL BE PROVIDED UNDER OBSTRUCTIONS MORE THAN 48 INCHES.
13. THE FIRE PUMP FOR THIS NFPA 130 SYSTEM IS NOT REQUIRED TO MEET THE REQUIREMENTS OF NFPA 20.
14. IF CHANGES ARE MADE TO THE SYSTEM THAT EFFECT THE HYDRAULIC CALCULATION, THE SYSTEM SHALL BE REDESIGNED AND RE-DRAWN DRAWINGS SHALL BE SHOWN.
15. CONTRACTOR SHALL VERIFY BUILDING CONDITIONS PRIOR TO INSTALLATION.



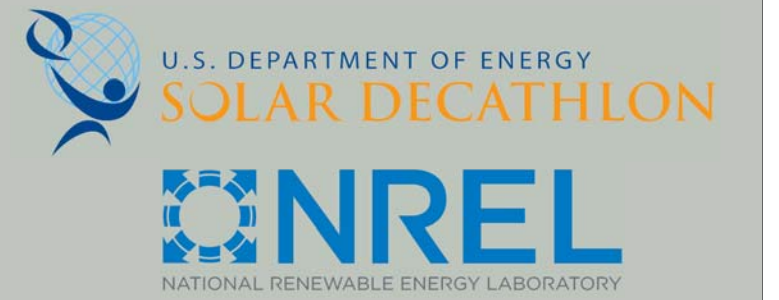
A1 FIRE SUPPRESSION RCP
3/8" = 1'-0"





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CONSULTANT: MATTHEW LUTZ
CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

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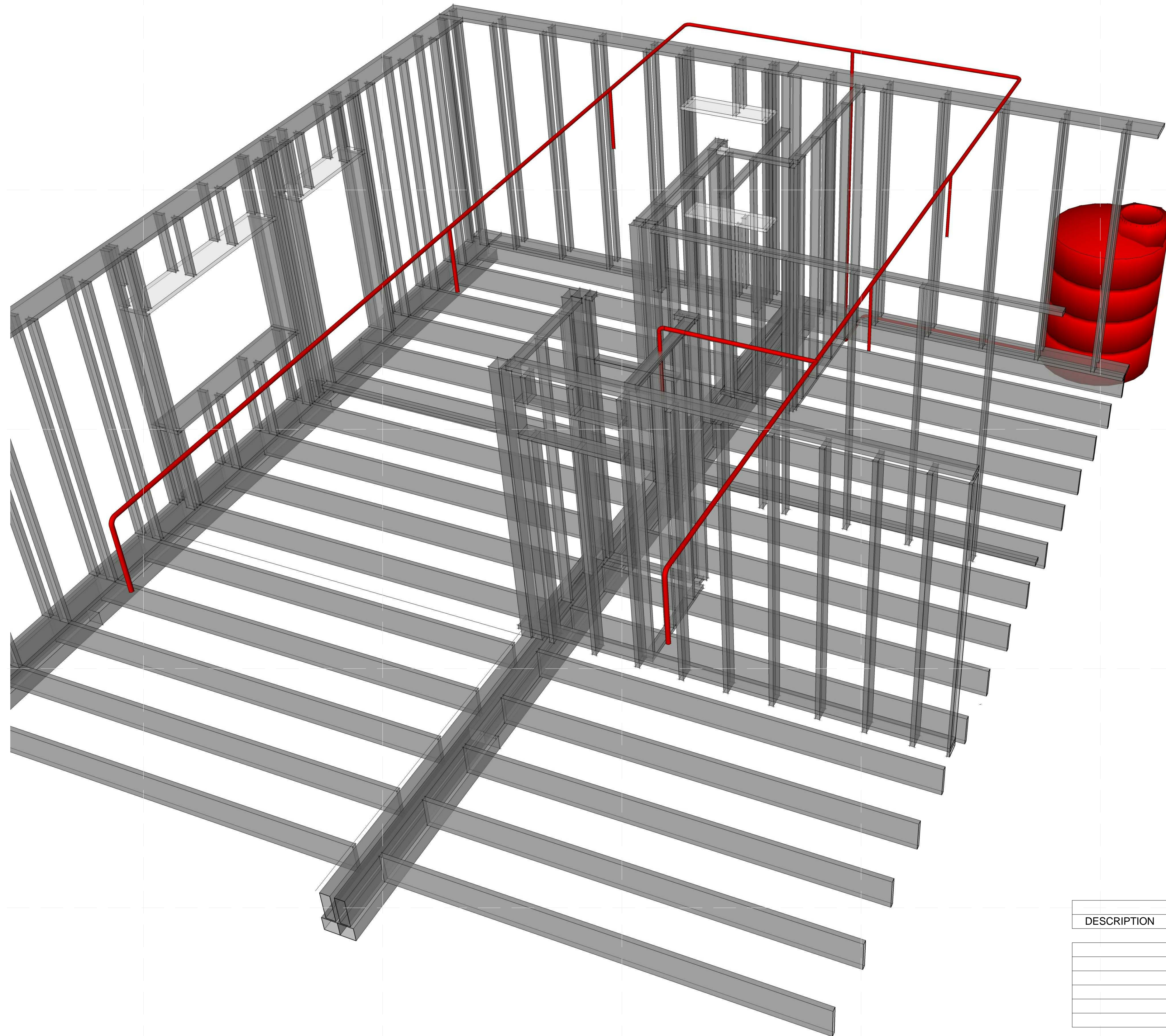
DELTA T90

FIRE SUPPRESSION
SCHEDULE & ISOMETRICS

Date 2012/8/1
Drawn by Author

F-601

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REFERENCE KEYNOTES

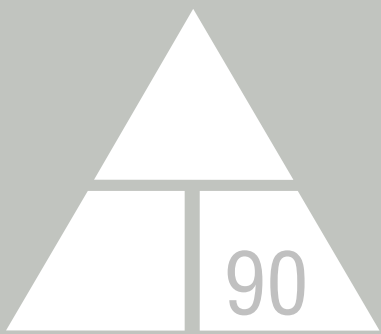
-DIVISION 21: FIRE SUPPRESSION
-46 00 00: WATER AND WASTEWATER EQUIPMENT

FIRE-SUPPRESSION SCHEDULE			
DESCRIPTION	MANUFACTURER	MODEL	REFERENCE NUMBER

A1 FIRE SUPPRESSION ISOMETRIC

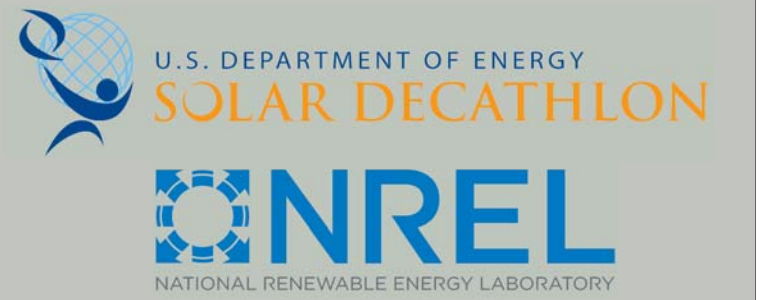
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REVISIONS

No.	Description	Date

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DELTA T90

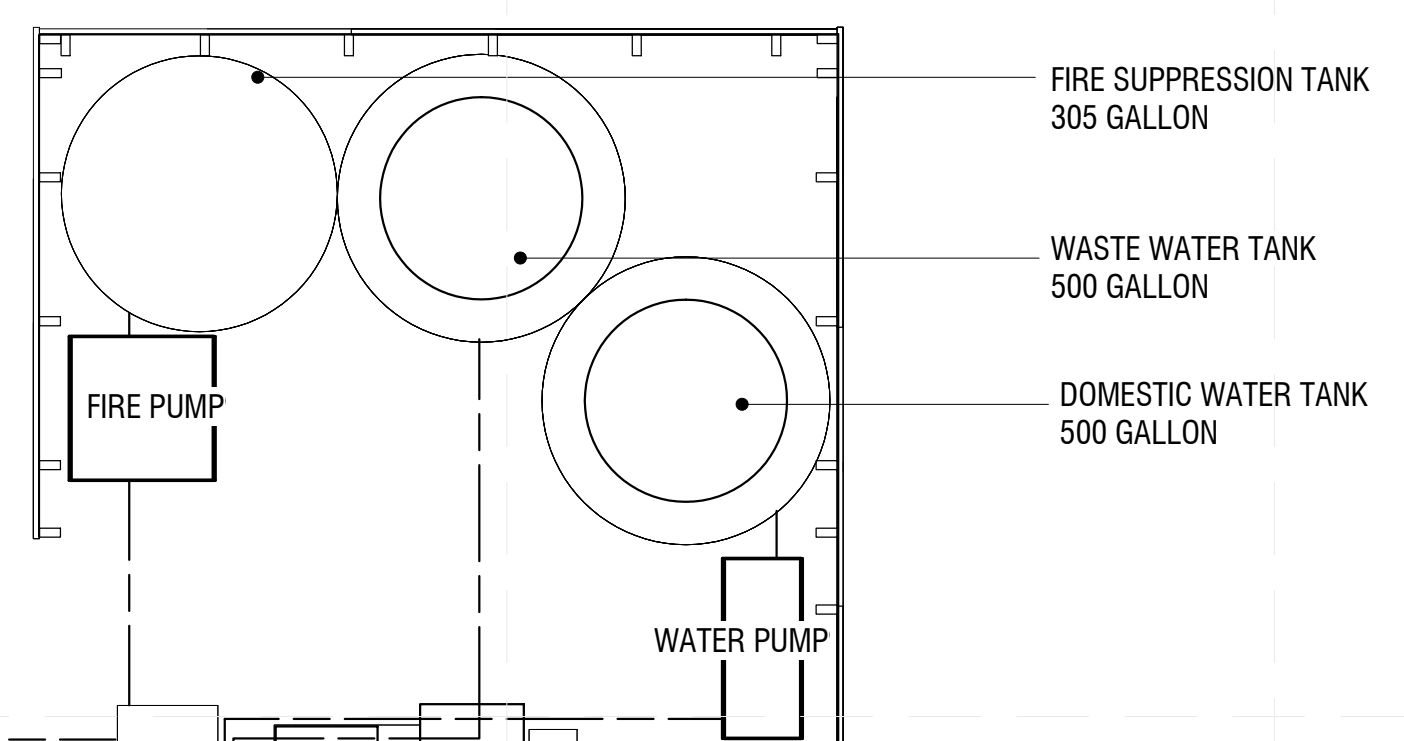
GENERAL NOTES & LIST

Date 2012/8/1
Drawn by Author

P-001

SHT NO	PLUMBING SHEET LIST SHEET NAME
P-001	GENERAL NOTES & LIST
P-101	PLUMBING FIXTURE & EQUIPMENT PLAN
P-102	SUPPLY LINE PLAN
P-103	DRAIN LINE PLAN
P-501	WATER STORAGE DETAILS
P-601	SUPPLY LINE DIAGRAMS
P-603	SUPPLY PLUMBING ISOMETRICS
P-604	WASTE PLUMBING ISOMETRICS



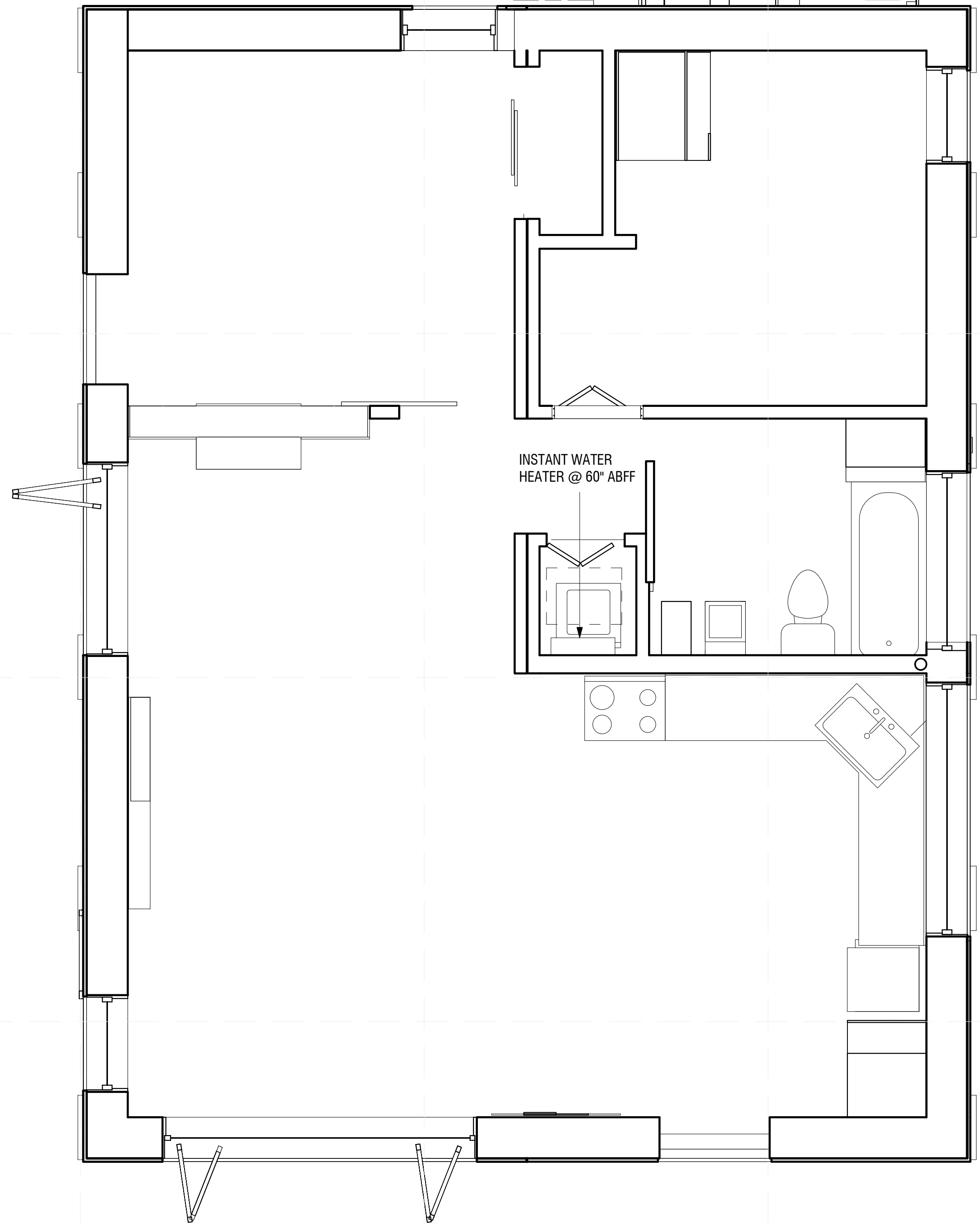


GENERAL SHEET NOTES

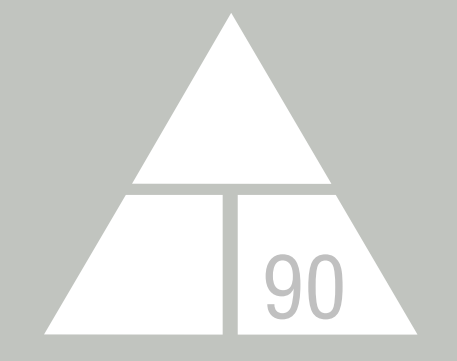
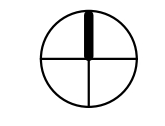
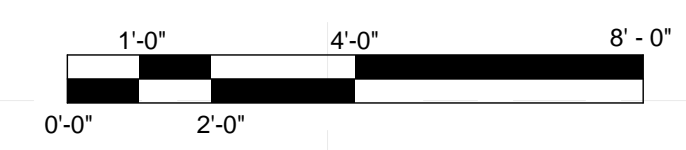
-DECKS, RAILINGS, EXTERIOR DOOR SWINGS AND LANDSCAPE OMITTED FOR CLARITY
 -SEE A-401 ENLARGED KITCHEN & BATH PLAN

REFERENCE KEYNOTES

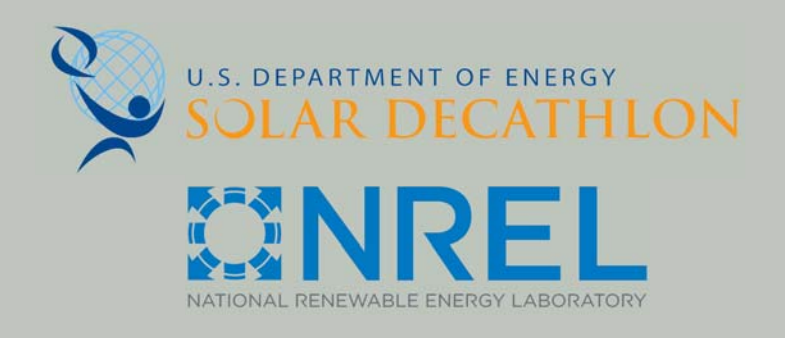
-46 00 00: WATER AND WASTEWATER EQUIPMENT
 -22 33 00: INSTANTANEOUS ELECTRIC DOMESTIC WATER HEATERS



A2 PLUMBING EQUIPMENT KEY PLAN
 3/8" = 1'-0"



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REVISIONS

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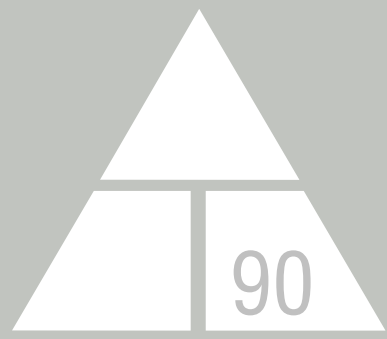
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DELTA T90

PLUMBING FIXTURE & EQUIPMENT PLAN

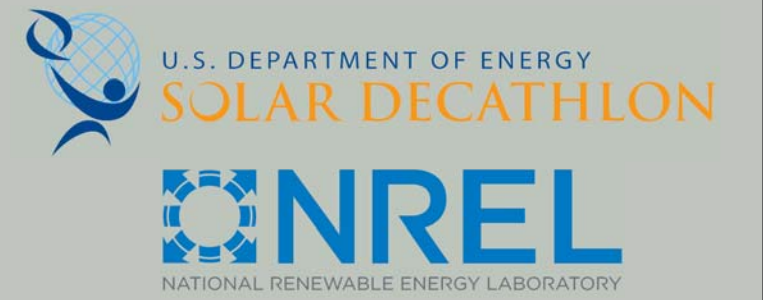
Date 2012/8/1
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P-101



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REVISIONS

No.	Description	Date
1.	REVEAL HIDDEN ELEMENTS	4/1/13

AS BUILT

DELTA T90

SUPPLY LINE PLAN

Date 2012/8/1
Drawn by Author

P-102

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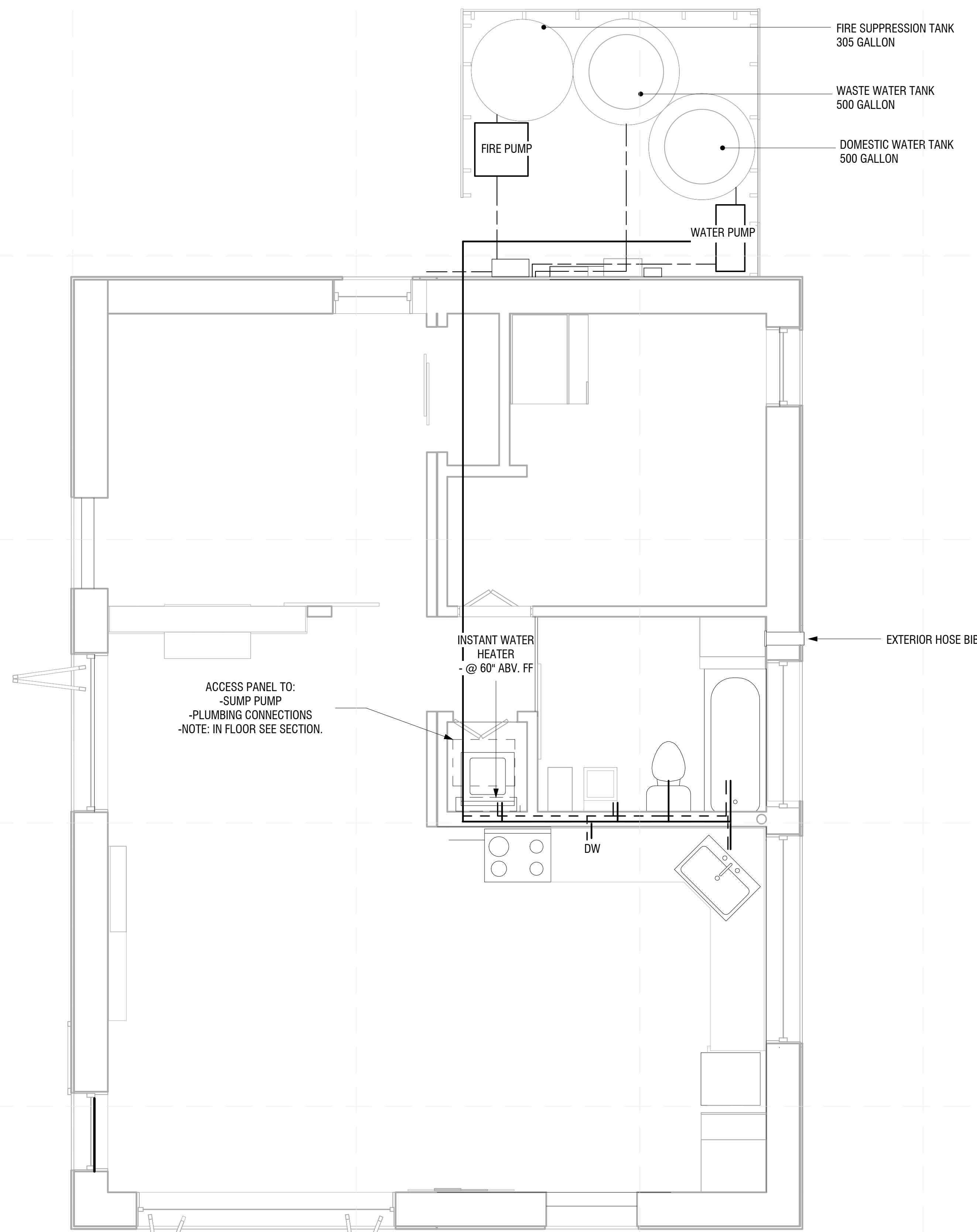
GENERAL SHEET NOTES

-DECKS, RAILINGS, AND LANDSCAPE OMITTED FOR CLARITY

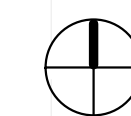
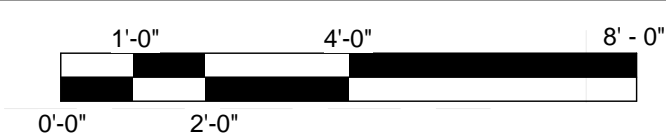
REFERENCE KEYNOTES

-22 33 00: INSTANTANEOUS ELECTRIC DOMESTIC WATER HEATERS
-46 00 00: WASTE AND WASTEWATER EQUIPMENT

SUPPLY LINE LEGEND	
- - -	HOT WATER LINE
—	COLD WATER LINE

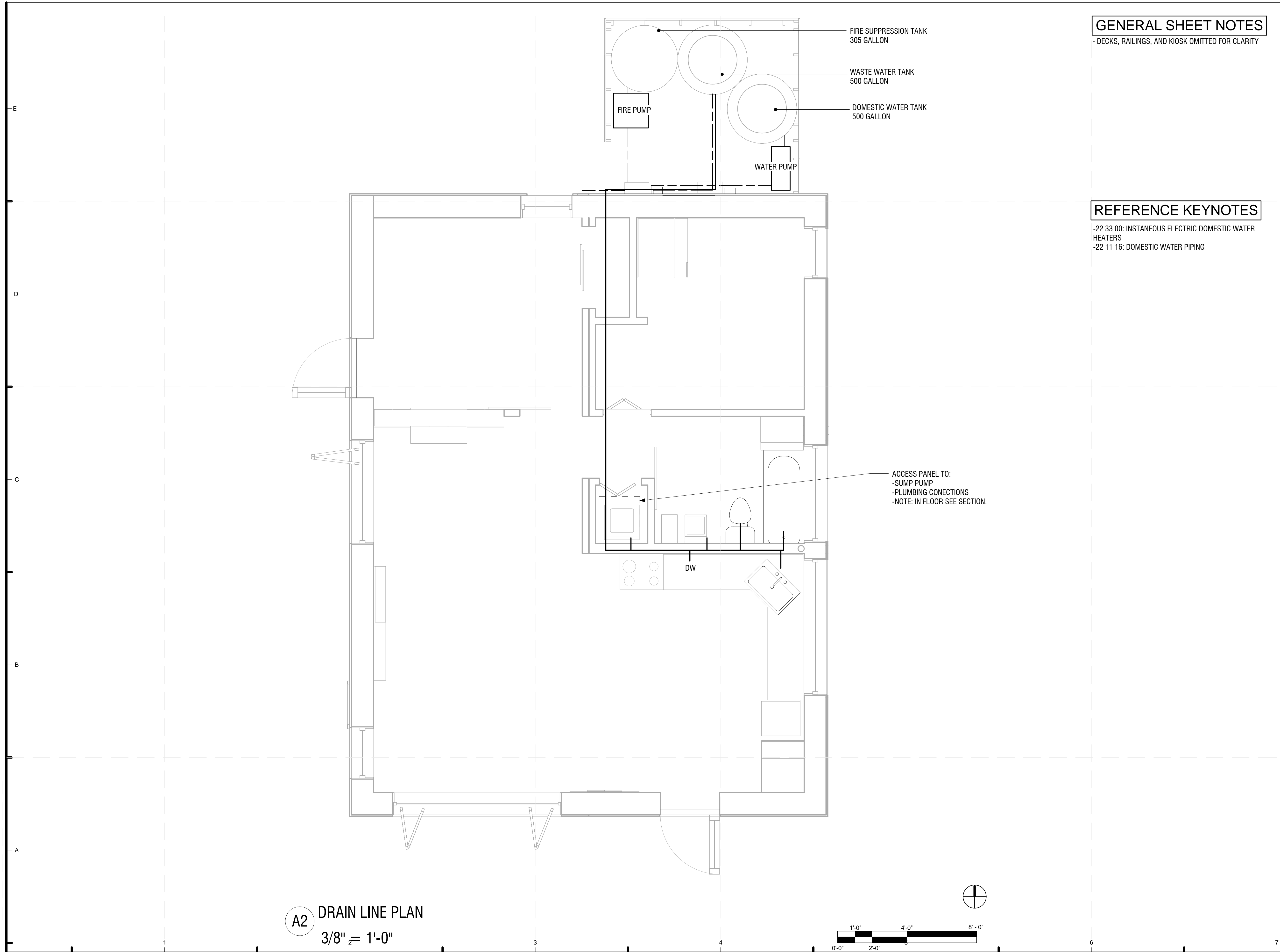


A2 SUPPLY LINE PLAN
3/8" = 1'-0"



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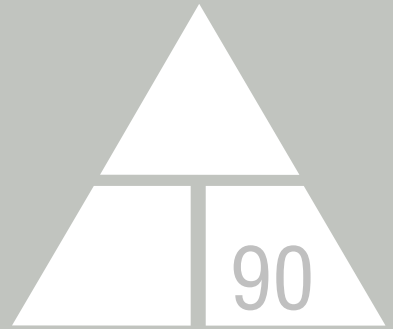


GENERAL SHEET NOTES

- DECKS, RAILINGS, AND KIOSK OMITTED FOR CLARITY

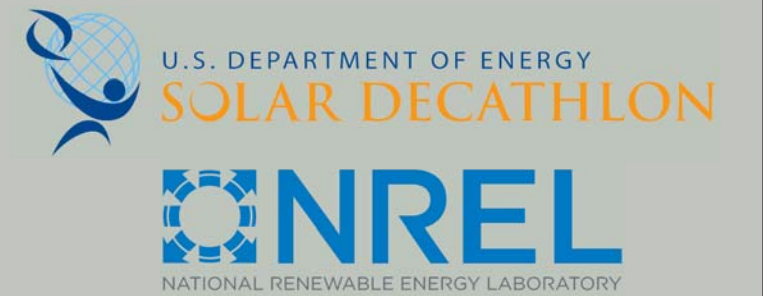
REFERENCE KEYNOTES

-22 33 00: INSTANTANEOUS ELECTRIC DOMESTIC WATER HEATERS
 -22 11 16: DOMESTIC WATER PIPING



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 CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

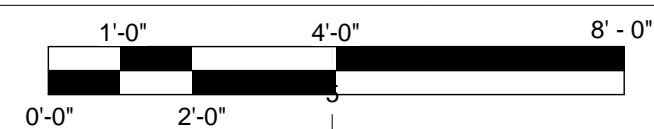
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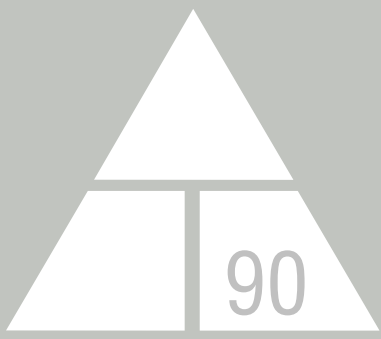
DELTA T90

DRAIN LINE PLAN

Date 2012/8/1
 Drawn by Author

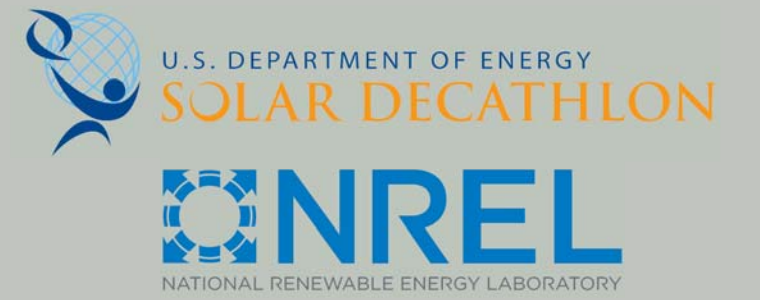
A2 DRAIN LINE PLAN
 3/8" = 1'-0"





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CONSULTANT: EDWIN SCHMECKPEPER

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No.	Description	Date

AS BUILT

DELTA T90

WATER STORAGE DETAILS

Date 2012/8/1
Drawn by Author

P-501

8/9/2013 11:54:03 PM



FIRE SUPPRESSION TANK
-305 GALLON

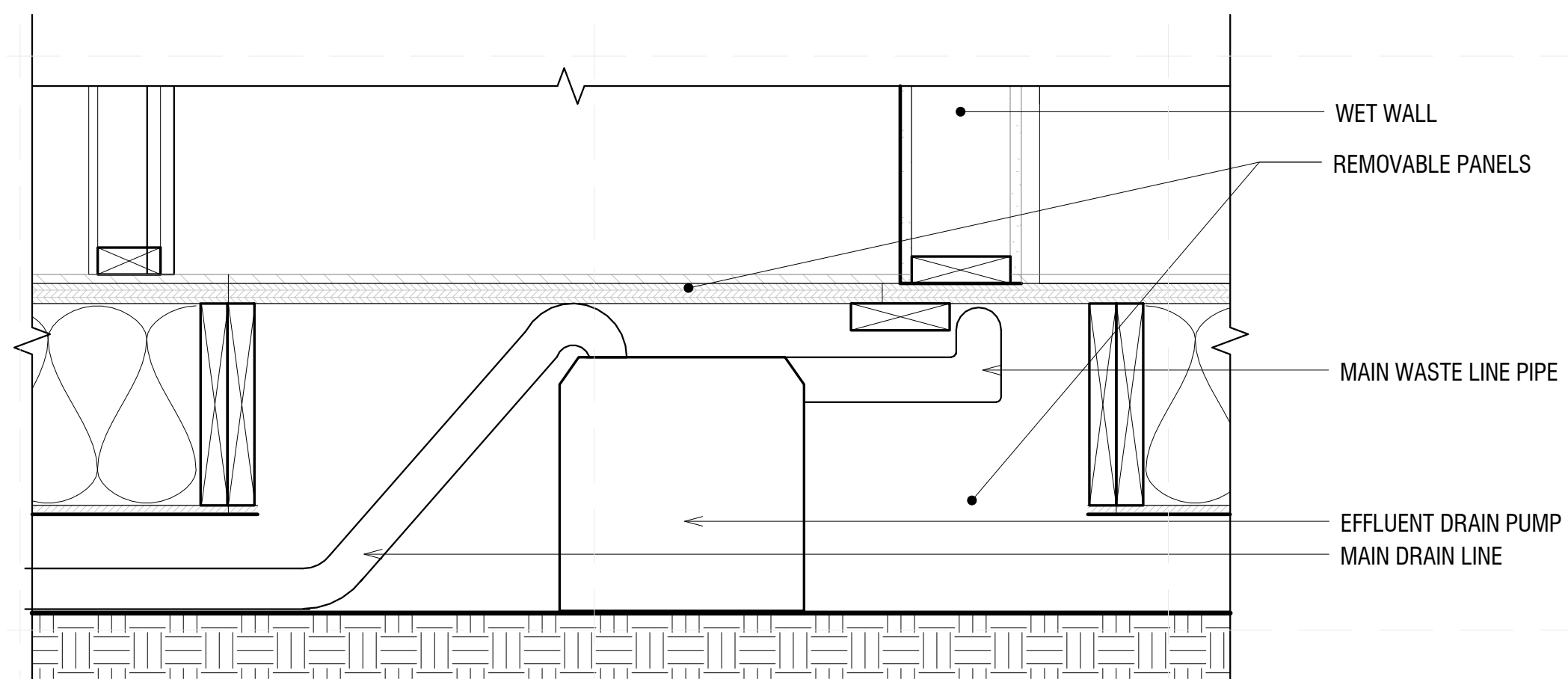
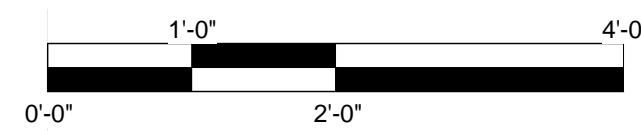
WASTE WATER TANK
500 GALLON

DOMESTIC WATER TANK
500 GALLON

REFERENCE KEYNOTES

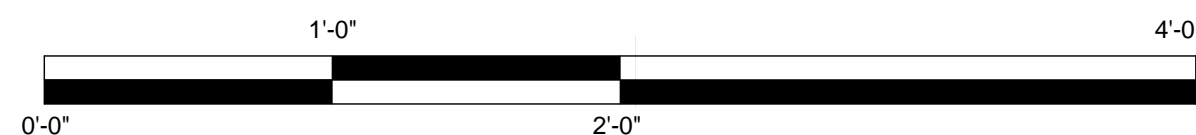
-46 00 00: WATER AND WASTEWATER EQUIPMENT

D2 SUPPLY & WASTE TANK SECTION
3/4" = 1'-0"



WET WALL
REMOVABLE PANELS
MAIN WASTE LINE PIPE
EFFLUENT DRAIN PUMP
MAIN DRAIN LINE

A2 WASTE TANK SECTION
1 1/2" = 1'-0"



E

D

C

B

A

1

2

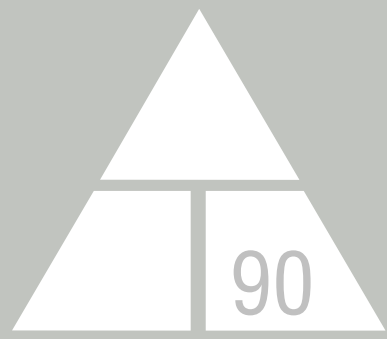
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4

5

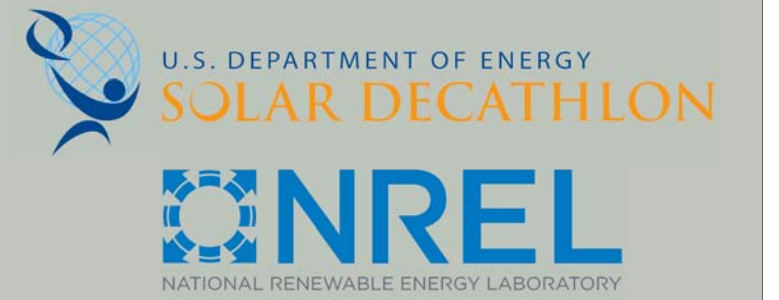
6

7



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CONSULTANT: MATTHEW LUTZ
CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

AS BUILT

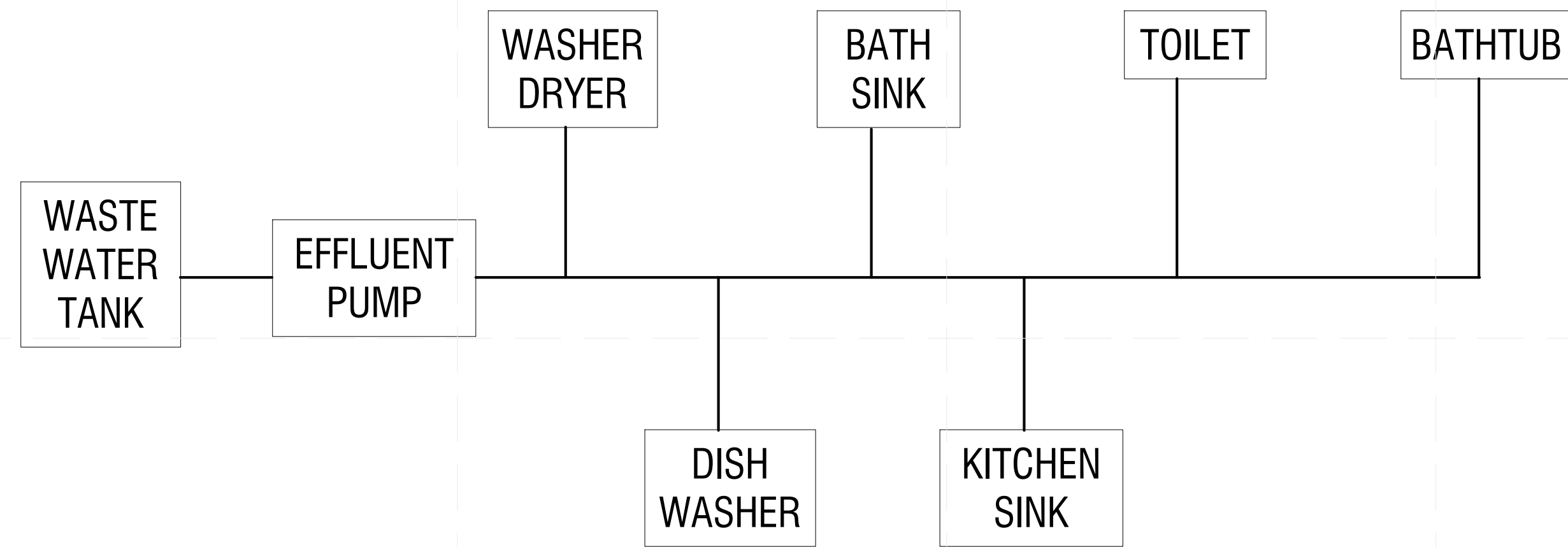
DELTA T90

SUPPLY LINE DIAGRAMS

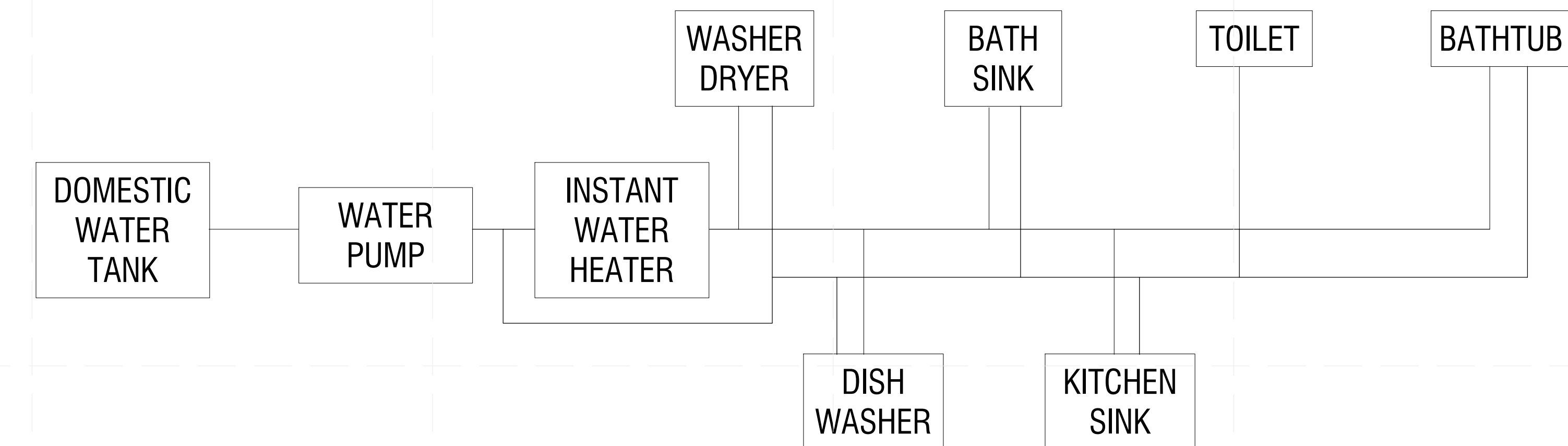
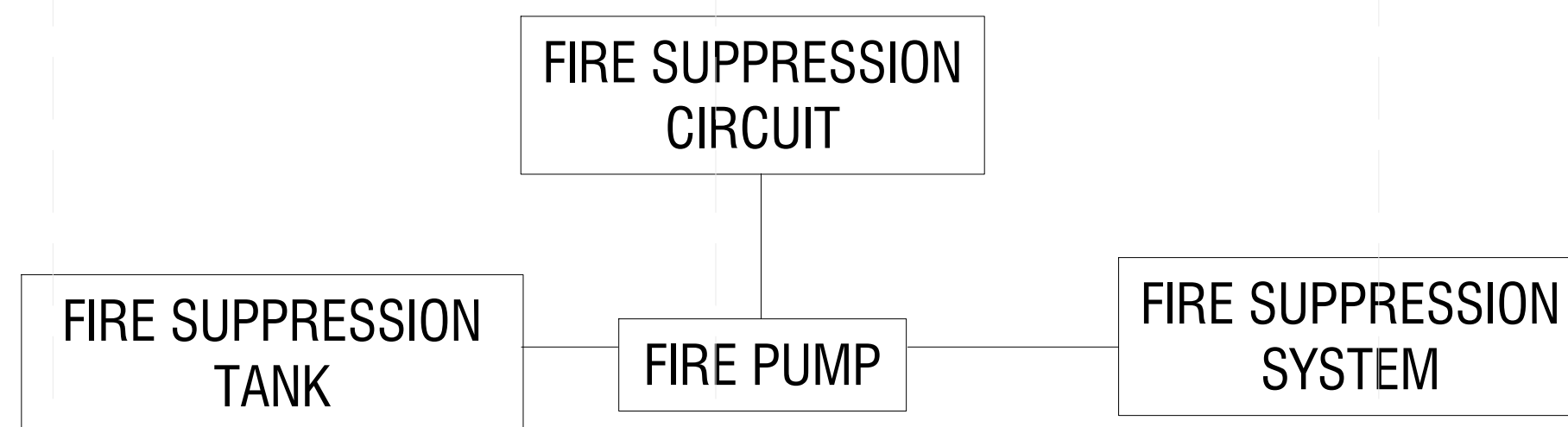
Date 2012/8/1
Drawn by Author

P-601

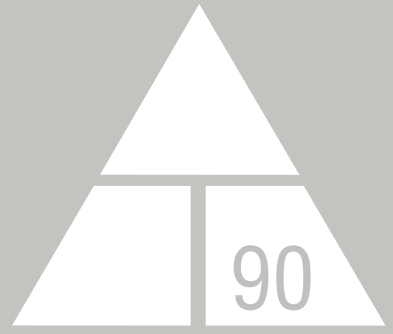
8/9/2013 11:54:04 PM



D1 WASTE LINE DIAGRAM

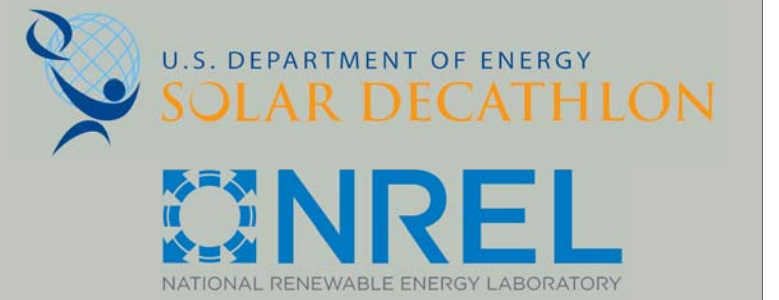


A2 WATER SUPPLY LINE DIAGRAM



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DELTA T90

SUPPLY PLUMBING
ISOMETRICS

Date 2012/8/1
Drawn by Author

P-603

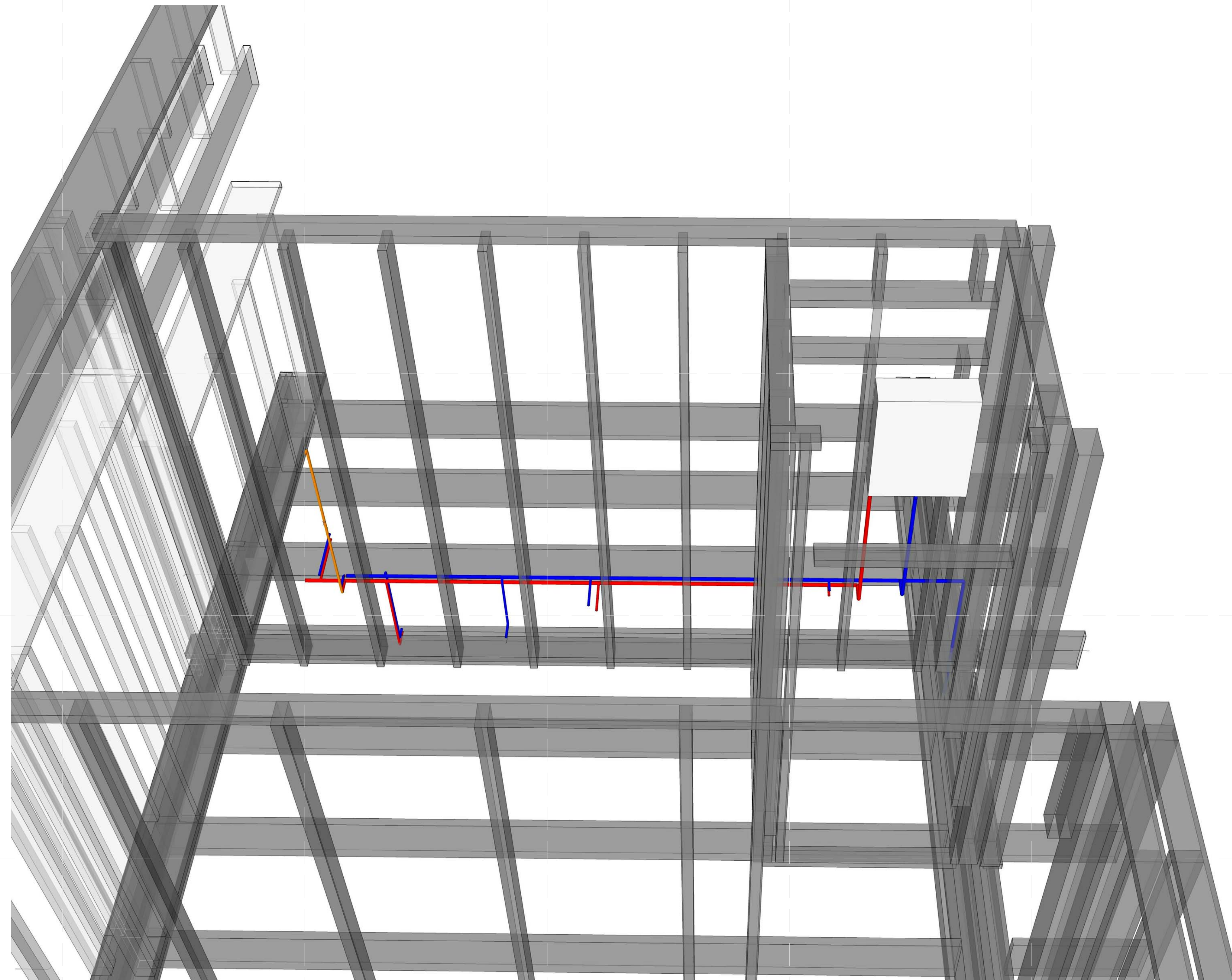
8/9/2013 11:54:03 PM

GENERAL SHEET NOTES

-ALL INFORMATION OTHER THAN PLUMBING AND
FRAMING OMITTED FOR CLARITY
-REFER TO P-604
-3/4" TRUNK LINES LEAD INTO 1/2" SUPPLY LINES FOR
BOTH THE HOT AND THE COLD LINES

REFERENCE KEYNOTES

-46 00 00: WATER AND WASTEWATER EQUIPMENT
-23 33 00: INSTANTANEOUS DOMESTIC ELECTRIC
WATER HEATERS
-02 11 16: DOMESTIC WATER PIPING



A1 SUPPLY WATER ISOMETRIC

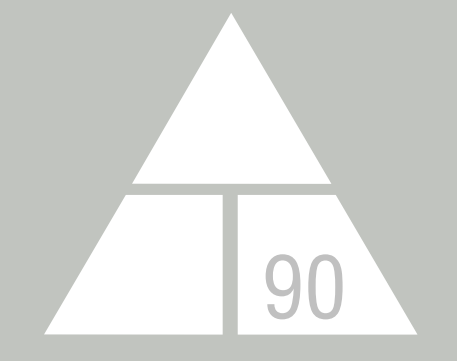
E
D
C
B
A

1 2 3 4 5 6 7

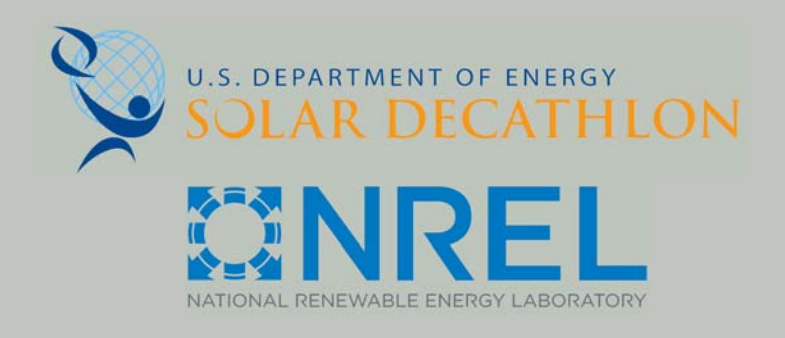
GENERAL SHEET NOTES

REFERENCE KEYNOTES

-46 00 00: WATER AND WASTEWATER EQUIPMENT
 -02 11 16: DOMESTIC WATER PIPING



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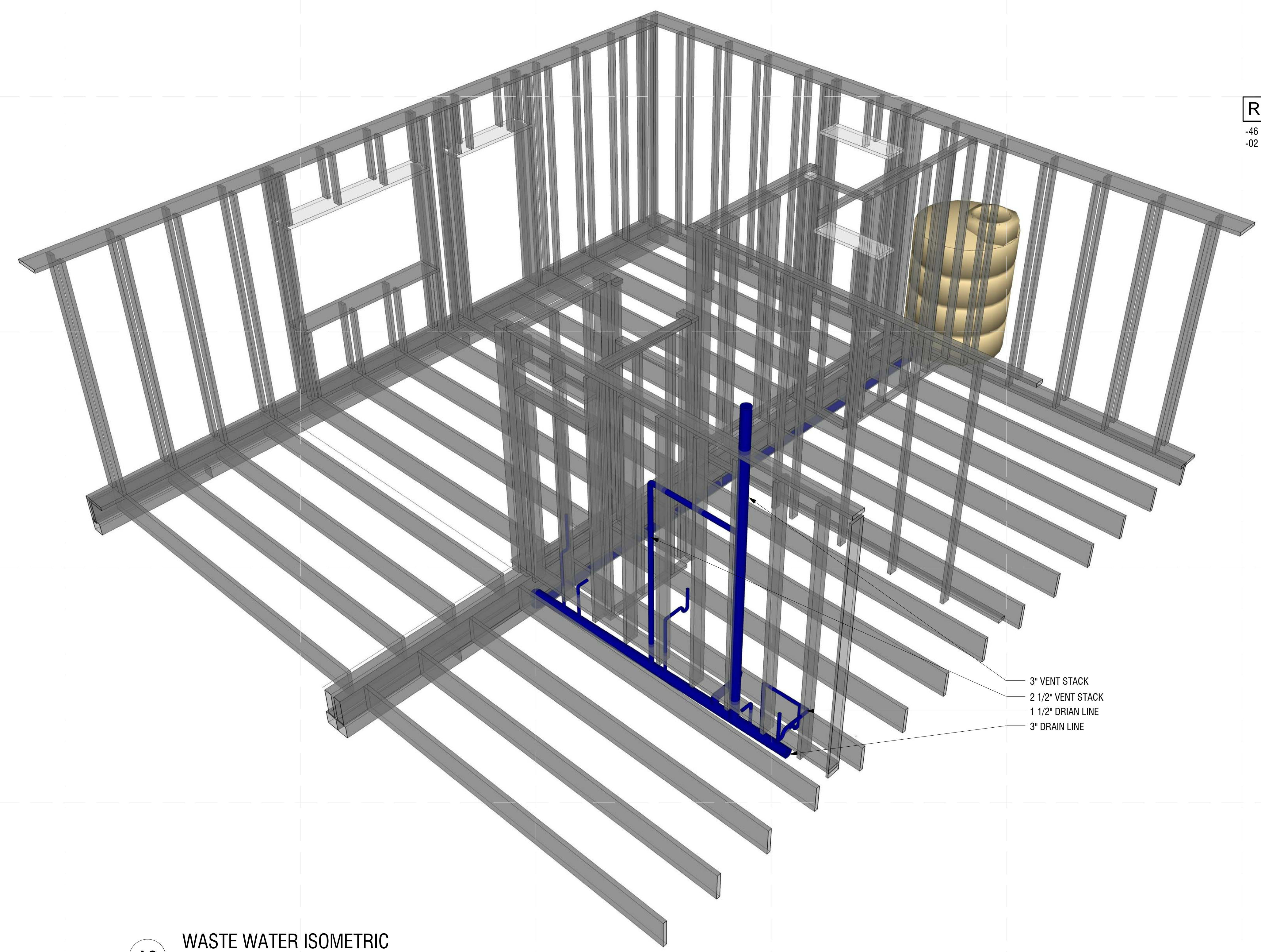
AS BUILT

DELTA T90

WASTE PLUMBING ISOMETRICS

Date 2012/8/1
 Drawn by Author

P-604



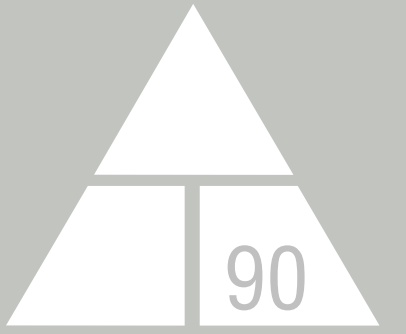
3" VENT STACK
 2 1/2" VENT STACK
 1 1/2" DRAIN LINE
 3" DRAIN LINE

A2 WASTE WATER ISOMETRIC

E
D
C
B
A

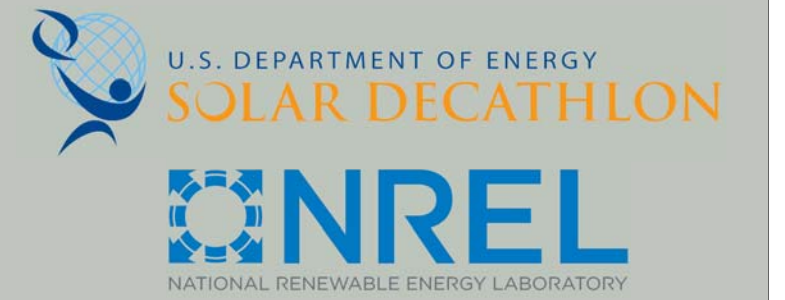
1 2 3 4 5 6 7

SHT NO	MECHANICAL SHEET LIST SHEET NAME
M-001	GENERAL NOTES & SCHEDULES
M-101	HEAT PUMP EQUIPMENT PLAN
M-102	HEAT PUMP DISTRIBUTION PLAN
M-103	HRV LAYOUT PLAN



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No.	Description	Date

AS BUILT

DELTA T90

GENERAL NOTES &
SCHEDULES

Date 2012/8/1
Drawn by Author

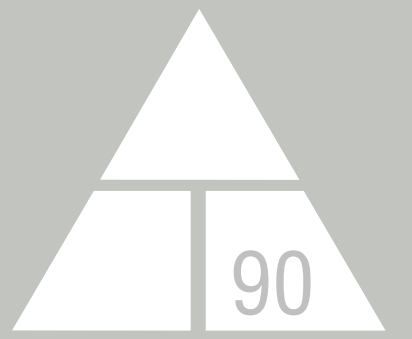
M-001

GENERAL SHEET NOTES

SEE M-103 FOR HEAT RECOVERY VENTILATION PLAN

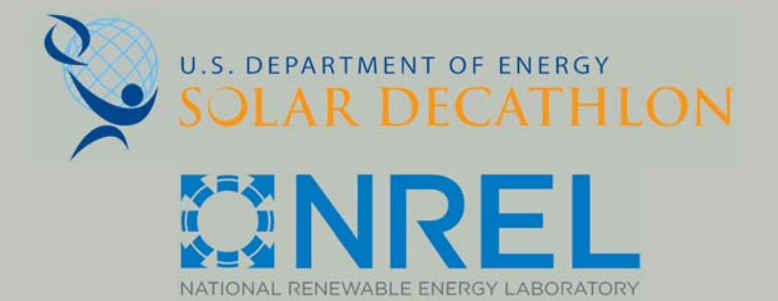
REFERENCE KEYNOTES

-DIVISION 23: HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)



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No.	Description	Date
1.	LABELING ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

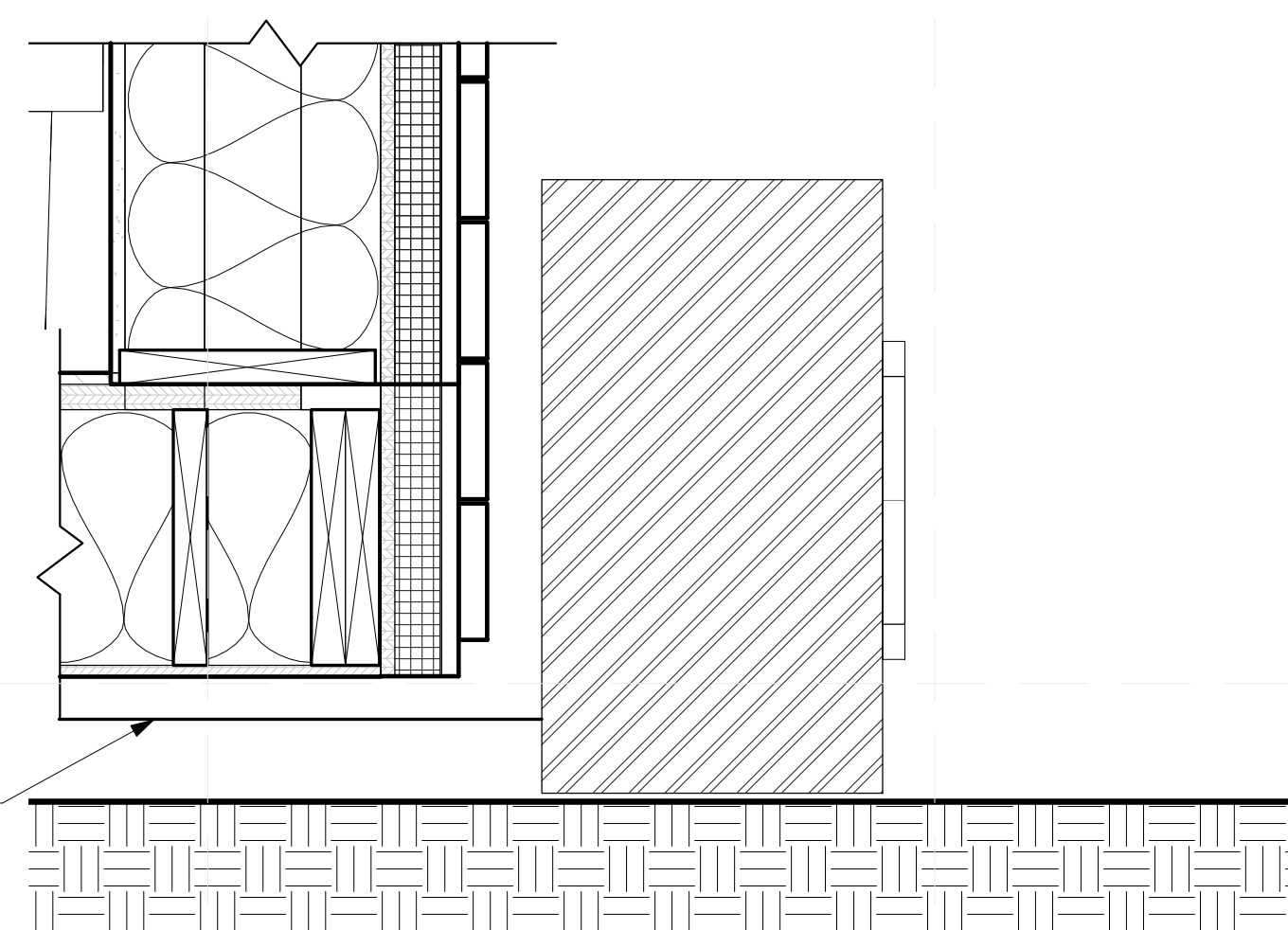
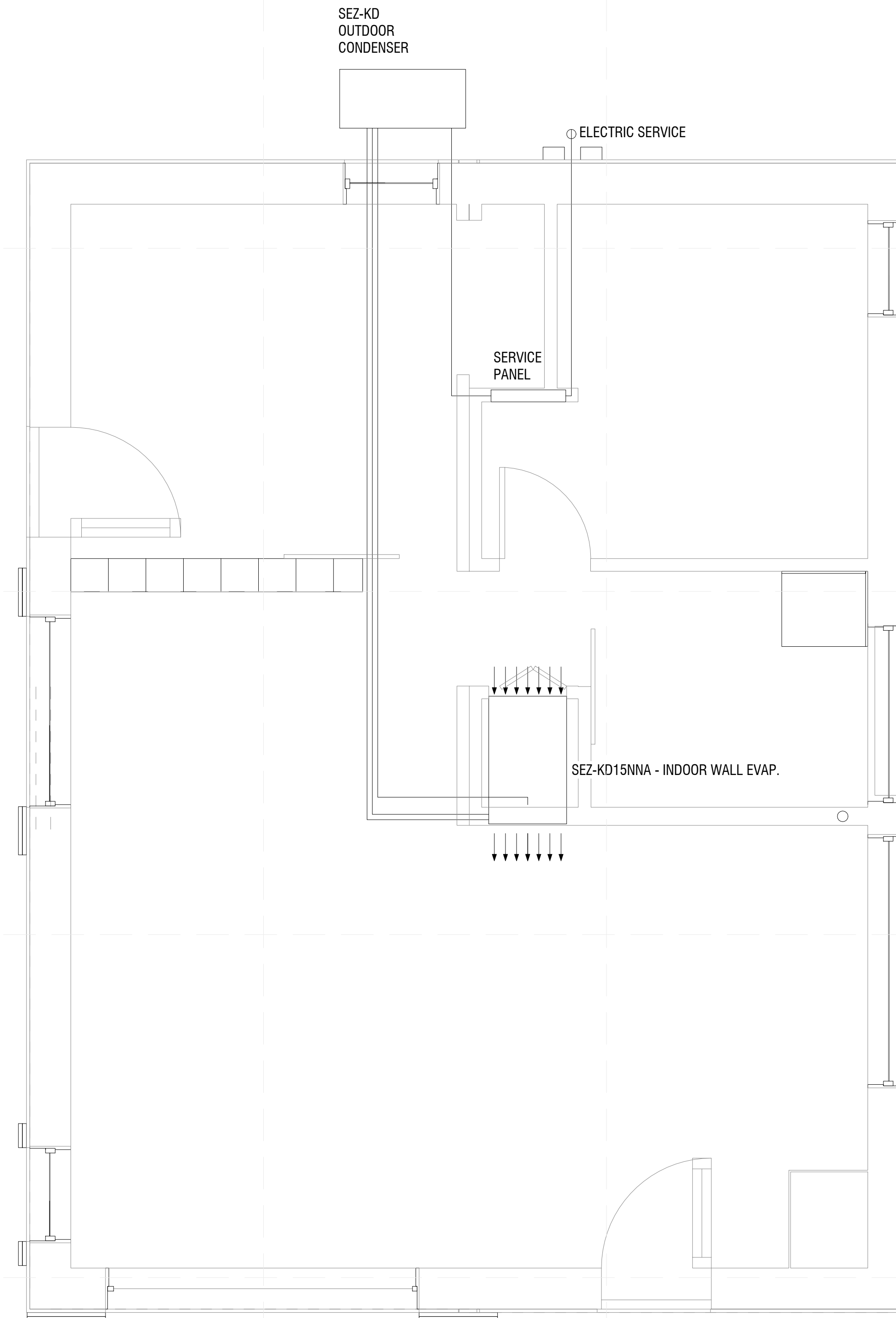
HEAT PUMP EQUIPMENT PLAN

Date 2012/8/1
Drawn by Author

M-101

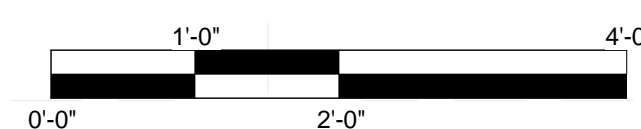
8/9/2013 11:57:20 PM

MECHANICAL EQUIPMENT SCHEDULE			
DESCRIPTION	MANUFACTURER	MODEL	LOCATION
LUNOS	LUNOS	E2	MASTER BEDROOM
LUNOS	LUNOS	E2	LIVING ROOM
LUNOS	LUNOS	E2	AUXILIARY BEDROOM
LUNOS	LUNOS	E2	BATHROOM
LUNOS	LUNOS	E2	BATHROOM
HEAT PUMP	mitsubishi	SEZ-KD \ SUZKA15NA	KITCHEN/DINING
HEAT PUMP	mitsubishi	SEZ-KD \ SUZKA15NA	LAUNDRY ROOM
HEAT PUMP	mitsubishi	SEZ-KD \ SUZKA15NA	HALL
LUNOS	LUNOS	E2	KITCHEN/DINING



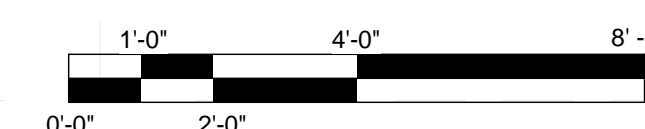
A1 HEAT PUMP TRANSVERSE SECTION

1 1/2" = 1'-0"



A3 HEAT PUMP EQUIPMENT PLAN

3/8" = 1'-0"

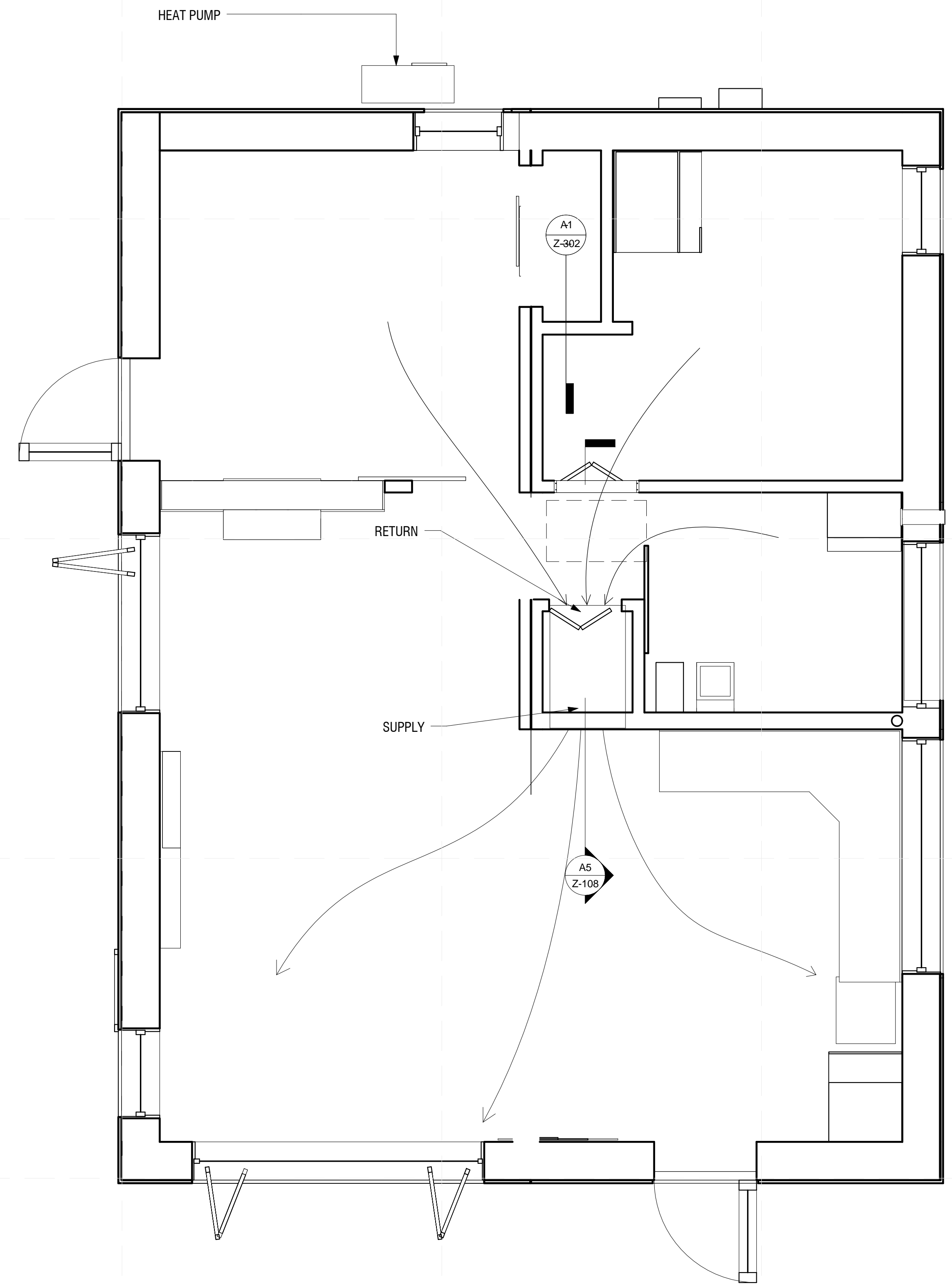


GENERAL SHEET NOTES

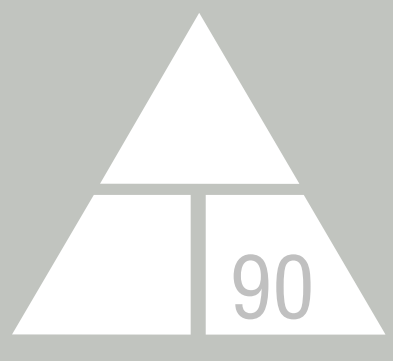
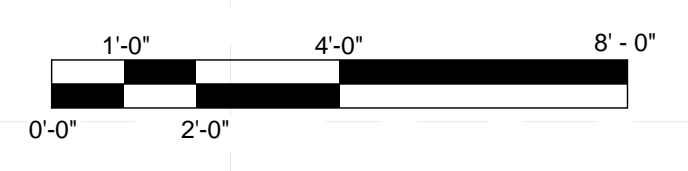
- WATER TANKS, EXTERIOR DECKS AND RAILINGS
OMITTED FOR CLARITY

REFERENCE KEYNOTES

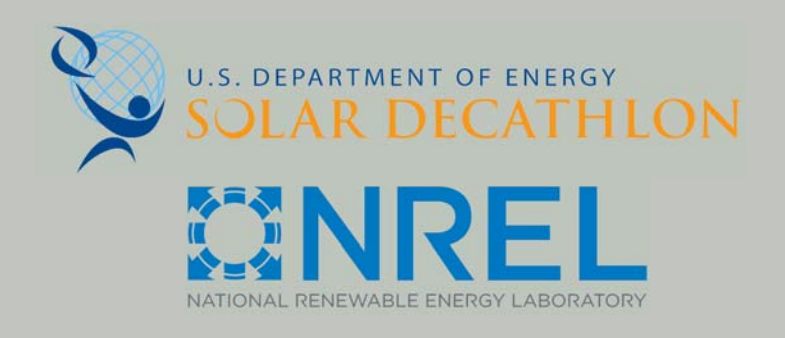
-DIVISION 23: HEATING, VENTILATING, AND AIR
CONDITIONING (HVAC)



A2 HEAT PUMP DISTRIBUTION PLAN
3/8" = 1'-0"



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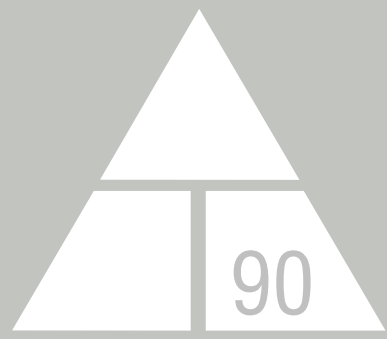
AS BUILT

DELTA T90

HEAT PUMP DISTRIBUTION
PLAN

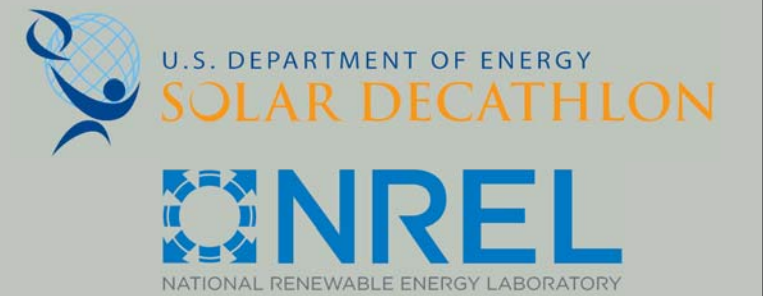
Date 2012/8/1
Drawn by Author

M-102



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No.	Description	Date

AS BUILT

DELTA T90

HRV LAYOUT PLAN

Date 2012/8/1
Drawn by Author

M-103

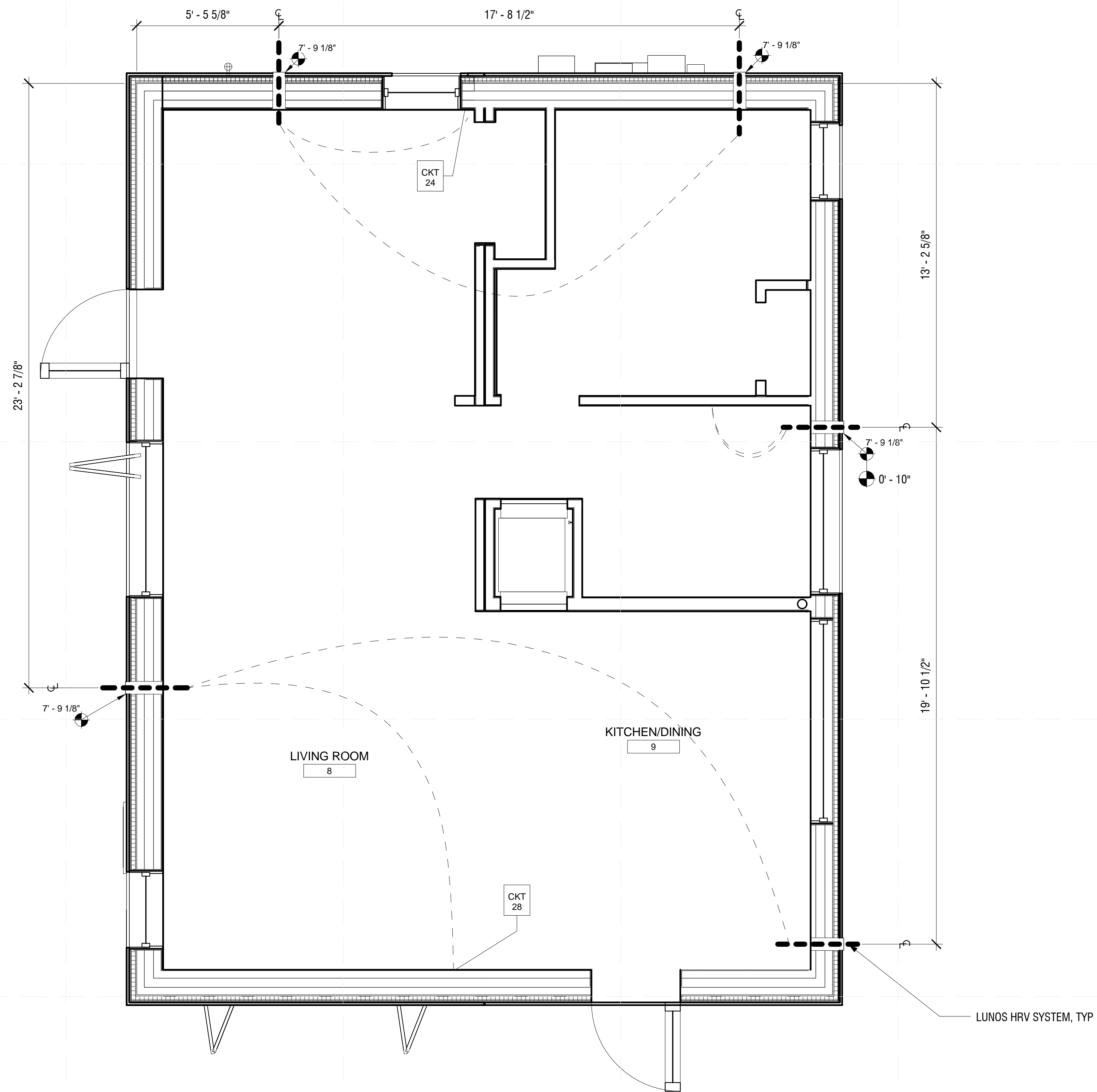
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GENERAL SHEET NOTES

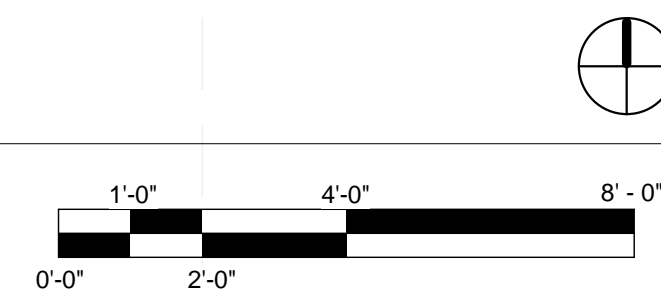
- DECKS, RAILINGS AND WATER TANKS OMITTED FOR CLARITY
- DIMENSIONS TAKEN FROM OUTSIDE FACE OF STUD
- REFERENCE M-104 AND M-105 FOR LUNOS ELEVATIONS
- SPOT ELEVATIONS ARE FROM T.O. SUB FLOOR

REFERENCE KEYNOTES

- 23 72 23: PACKAGED AIR-TO-AIR ENERGY RECOVERY SYSTEMS
- 23 81 26: SPLIT-SYSTEM AIR CONDITIONERS

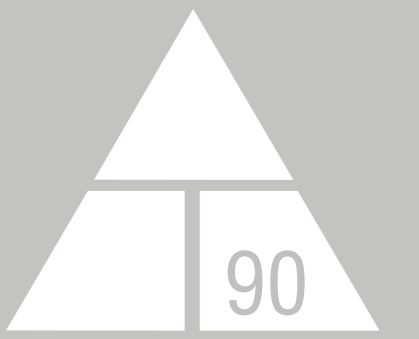


A2 LUNOS HRV PLAN
3/8" = 1'-0"



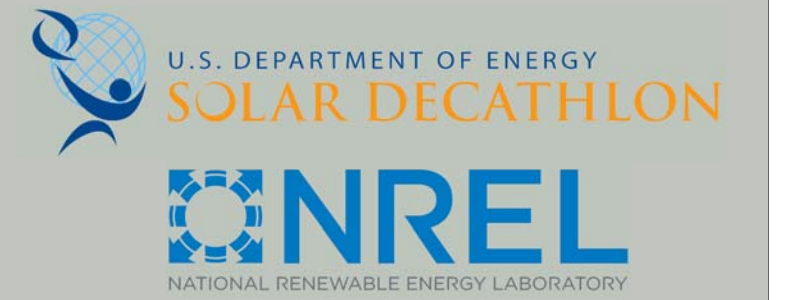
GENERAL SHEET NOTES

THIS SYSTEM WAS DESIGNED IN COMPLIANCE WITH NEC 2011 & ARTICLE 690



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DELTA T90

NOTES & SYMBOLS

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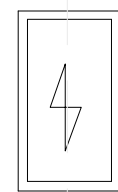
E-001

SHT NO	ELECTRICAL SHEET LIST SHEET NAME
E-001	NOTES & SYMBOLS
E-101	MICROGRID INTERCONNECTION PLAN
E-103	RECEPTACLE PLAN
E-104	LIGHTING PLAN
E-106	PV ARRAY PLAN
E-107	PV RACEWAY PLAN
E-601	PV DESIGN CHOICE SUMMARY
E-602	ONE LINE DIAGRAM
E-603	PV THREE LINE DIAGRAM & SCHEDULE
E-604	SERVICE PANEL SCHEDULE

SYMBOL LEGEND	
	ORGANIZERS UTILITY PANEL AND POWER POLE
	ELECTRICAL, EARTH GROUND
	ELECTRICAL, DC TO AC CONVERTOR
	ELECTRICAL, RECEPTACLE, DUPLEX
	ELECTRICAL, RECEPTACLE, SINGLE
	ELECTRICAL, RECEPTACLE, DUPLEX, GROUNDED
	ELECTRICAL, SWITCH, SINGLE POLE
	ELECTRICAL, SWITCH, THREE WAY
	ELECTRICAL, PHOTOVOLTAIC PANEL
	ELECTRICAL, JUNCTION BOX
	ELECTRICAL, GENERATOR, POWER
	ELECTRICAL, FLOOR OUTLET
	ELECTRICAL, WATER PUMP
	ELECTRICAL, WATER HEATER
	SPRINKLER
	SMOKE DETECTOR

ELECTRICAL SYMBOL LEGEND

ORGANIZERS UTILITY PANEL



GENERATOR TRANSFER SWITCH
METER AND SERVICE DISCONNECT
WIREWAY STRAIGHT SECTION COVER
INVERTER
COMBINER BOX

CONDUIT FROM TEAM
METER HOUSING TO DATA
LOGGER ENCLOSURE
DATA LOGGER
ENCLOSURE
(4) 1" DIA. CONDUIT @ 8'-0"
FOR ORGANIZER ETHERNET
AND POWER CABLES

GENERAL ACCESS PANELS

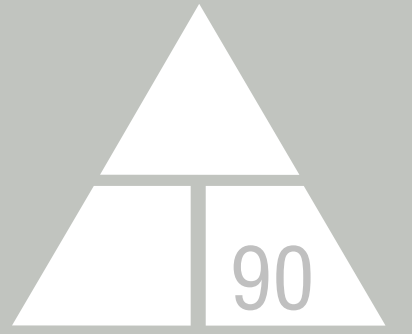
SERVICE PANEL

GENERAL SHEET NOTES

DECKS, RAILINGS, WATER TANKS, AND WATER SHADING OMITTED FOR CLARITY

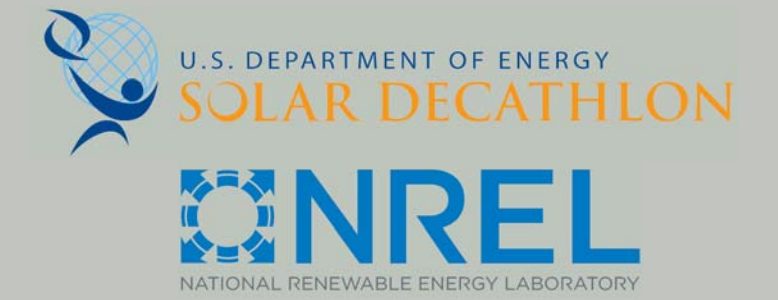
REFERENCE KEYNOTES

-23 09 13: SENSORS AND TRANSMITTERS



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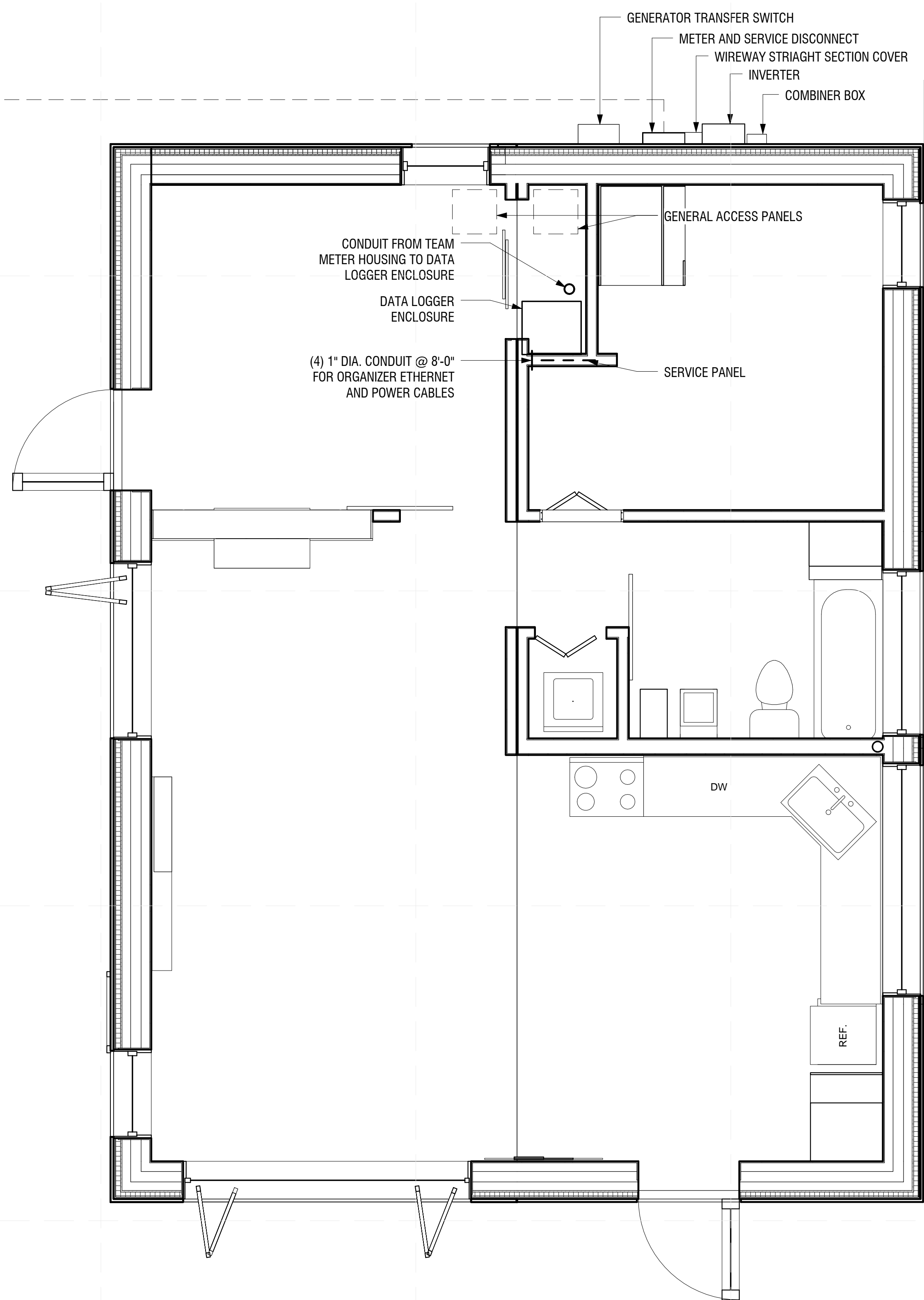
DELTA T90

MICROGRID INTERCONNECTION PLAN

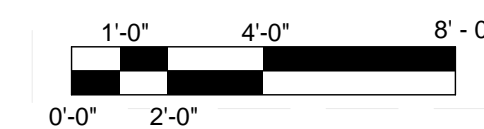
Date 2012/8/1
Drawn by Author

E-101

8/9/2013 11:58:57 PM

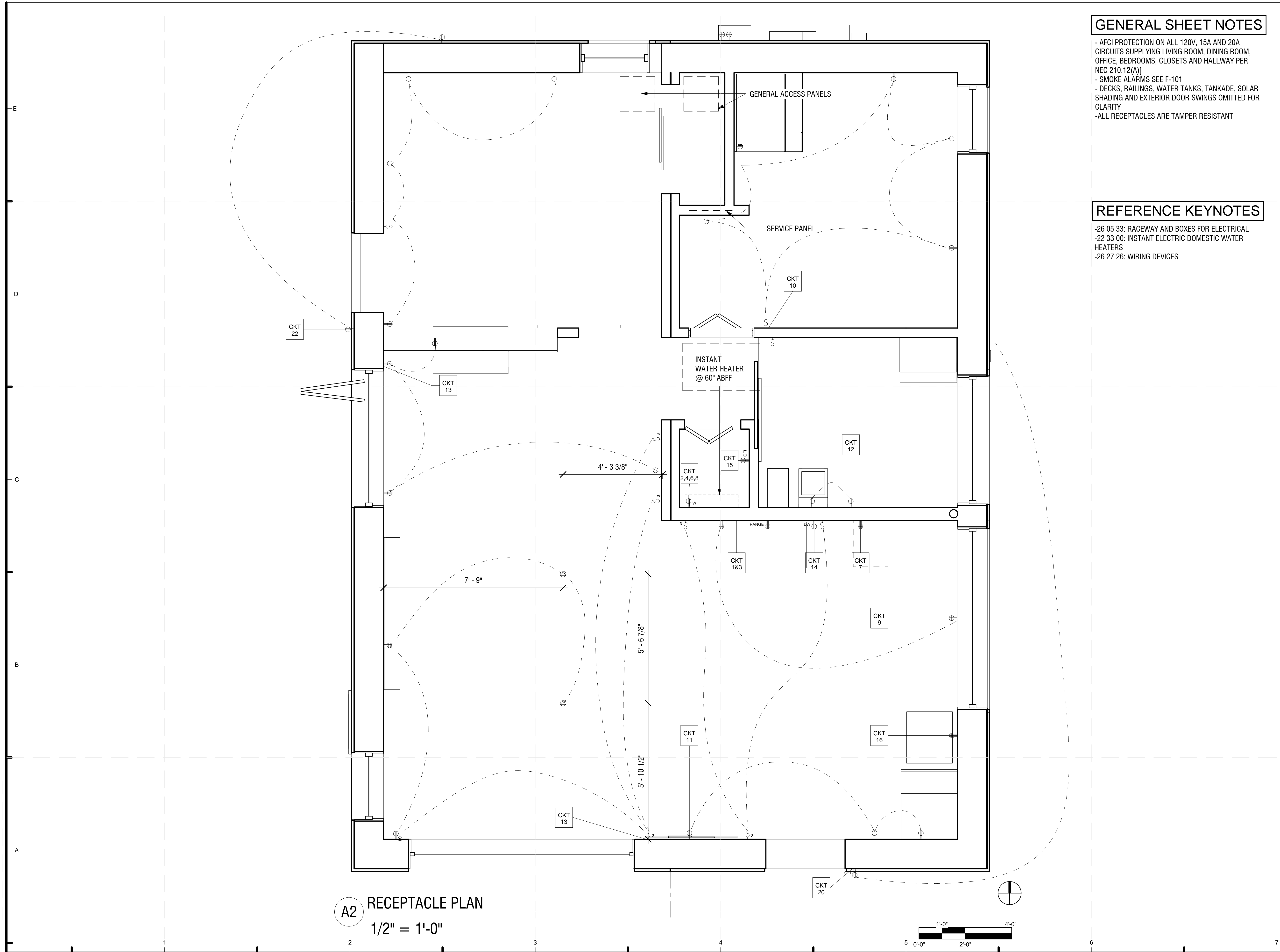


A1 MICROGRID INTERCONNECTION PLAN
3/8" = 1'-0"



E
D
C
B
A

1 2 3 4 5 6 7



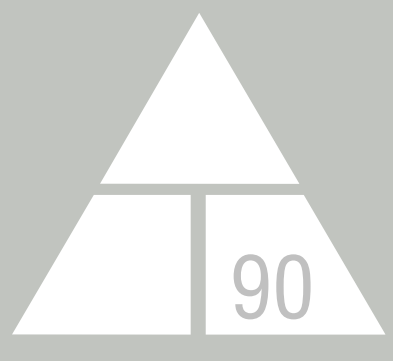
A2 RECEPTACLE PLAN
1/2" = 1'-0"

GENERAL SHEET NOTES

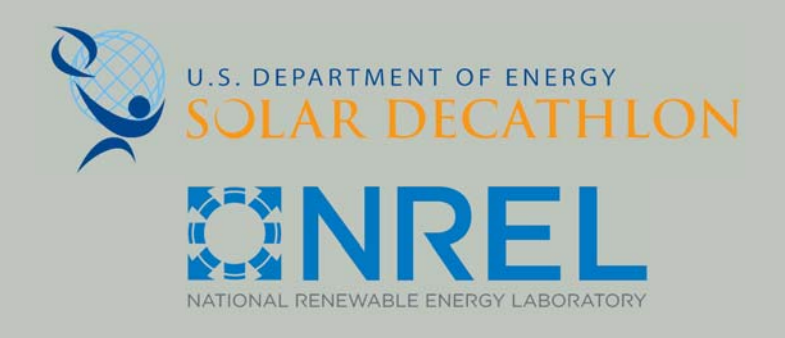
- AFCI PROTECTION ON ALL 120V, 15A AND 20A CIRCUITS SUPPLYING LIVING ROOM, DINING ROOM, OFFICE, BEDROOMS, CLOSETS AND HALLWAY PER NEC 210.12(A)
- SMOKE ALARMS SEE F-101
- DECKS, RAILINGS, WATER TANKS, TANKADE, SOLAR SHADING AND EXTERIOR DOOR SWINGS OMITTED FOR CLARITY
- ALL RECEPTACLES ARE TAMPER RESISTANT

REFERENCE KEYNOTES

- 26 05 33: RACEWAY AND BOXES FOR ELECTRICAL
- 22 33 00: INSTANT ELECTRIC DOMESTIC WATER HEATERS
- 26 27 26: WIRING DEVICES



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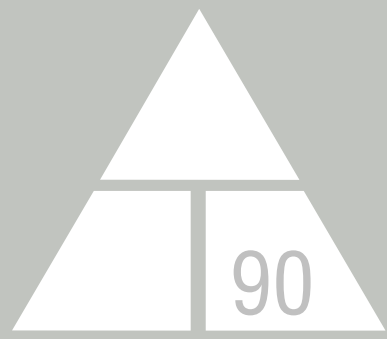
AS BUILT

DELTA T90

RECEPTACLE PLAN

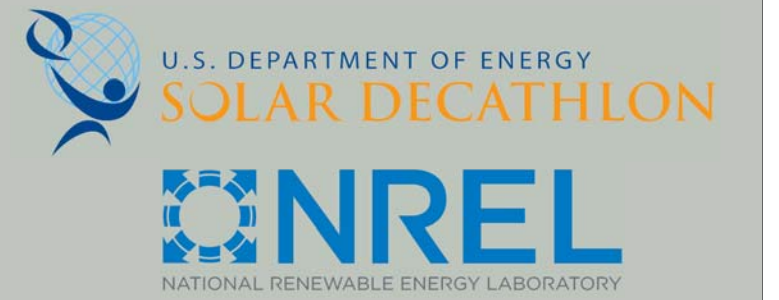
Date 2012/8/1
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E-103



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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

LIGHTING PLAN

Date 2012/8/1
Drawn by Author

E-104

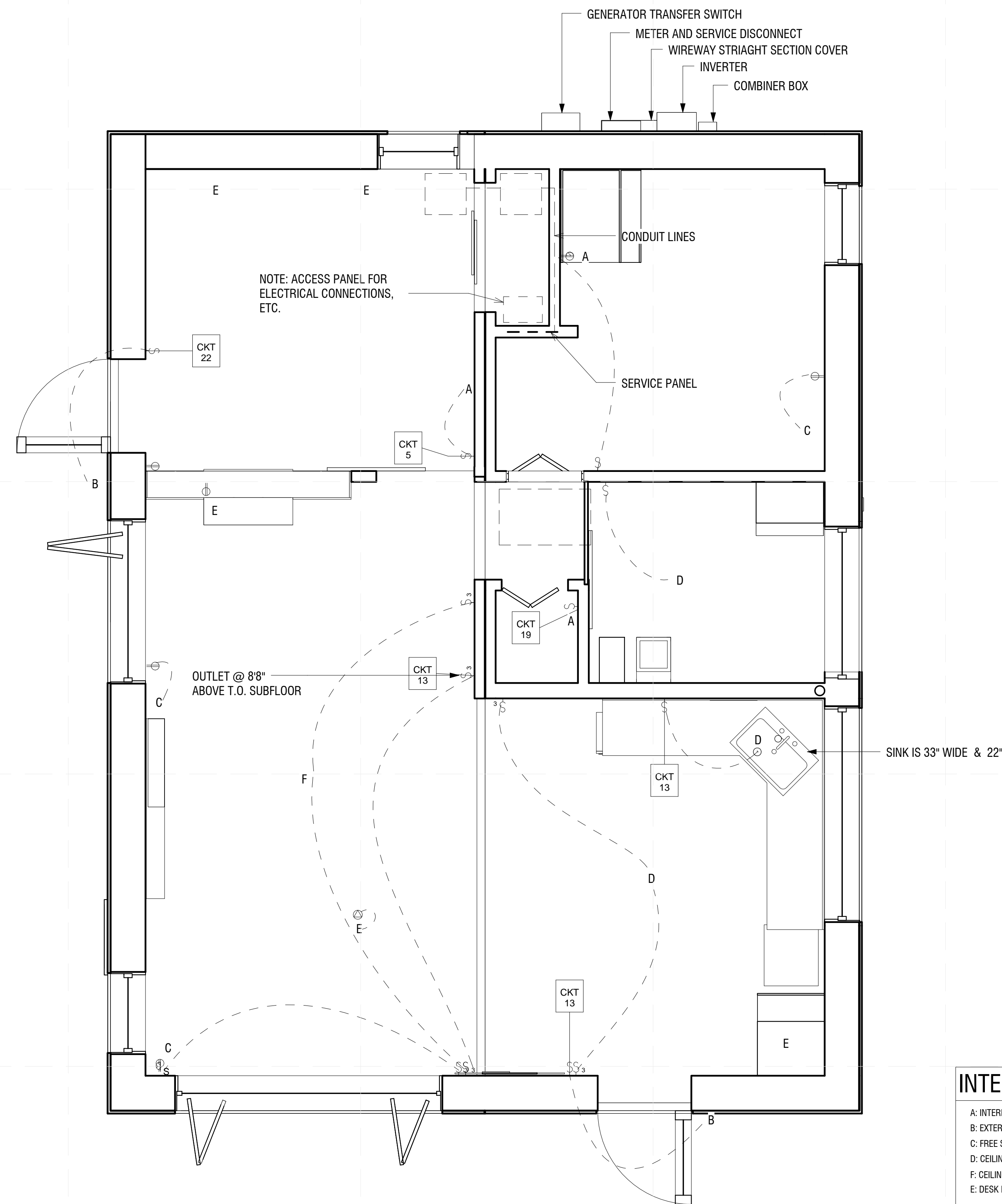
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GENERAL SHEET NOTES

- WATER TANKS, EXTERIOR DECKS AND RAILINGS
OMITTED FOR CLARITY

REFERENCE KEYNOTES

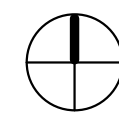
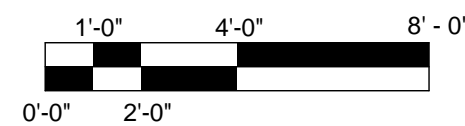
-26 05 33: RACEWAY AND BOXES FOR ELECTRICAL
-26 51 13: INTERIOR LIGHTING FIXTURES, LAMPS, AND
BALLASTS
-26 05 26: GROUNDING AND BONDING FOR ELECTRICAL
SYSTEMS

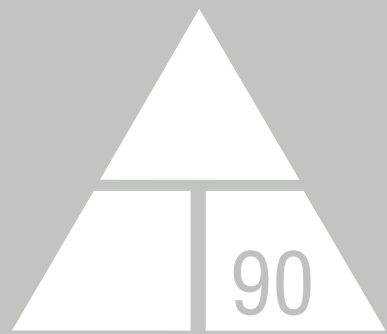


INTERIOR LIGHTING PLAN LEGEND

- A: INTERIOR WALL SCONCE
- B: EXTERIOR WALL SCONCE
- C: FREE STANDING FLOOR LAMP
- D: CEILING LIGHT
- F: CEILING MOUNTED FAN
- E: DESK LAMP

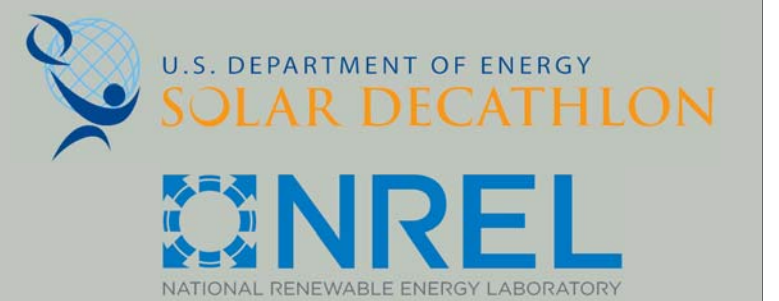
A2 LIGHTING PLAN
3/8" = 1'-0"





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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

PV ARRAY PLAN

Date 2012/8/1
Drawn by Author

E-106

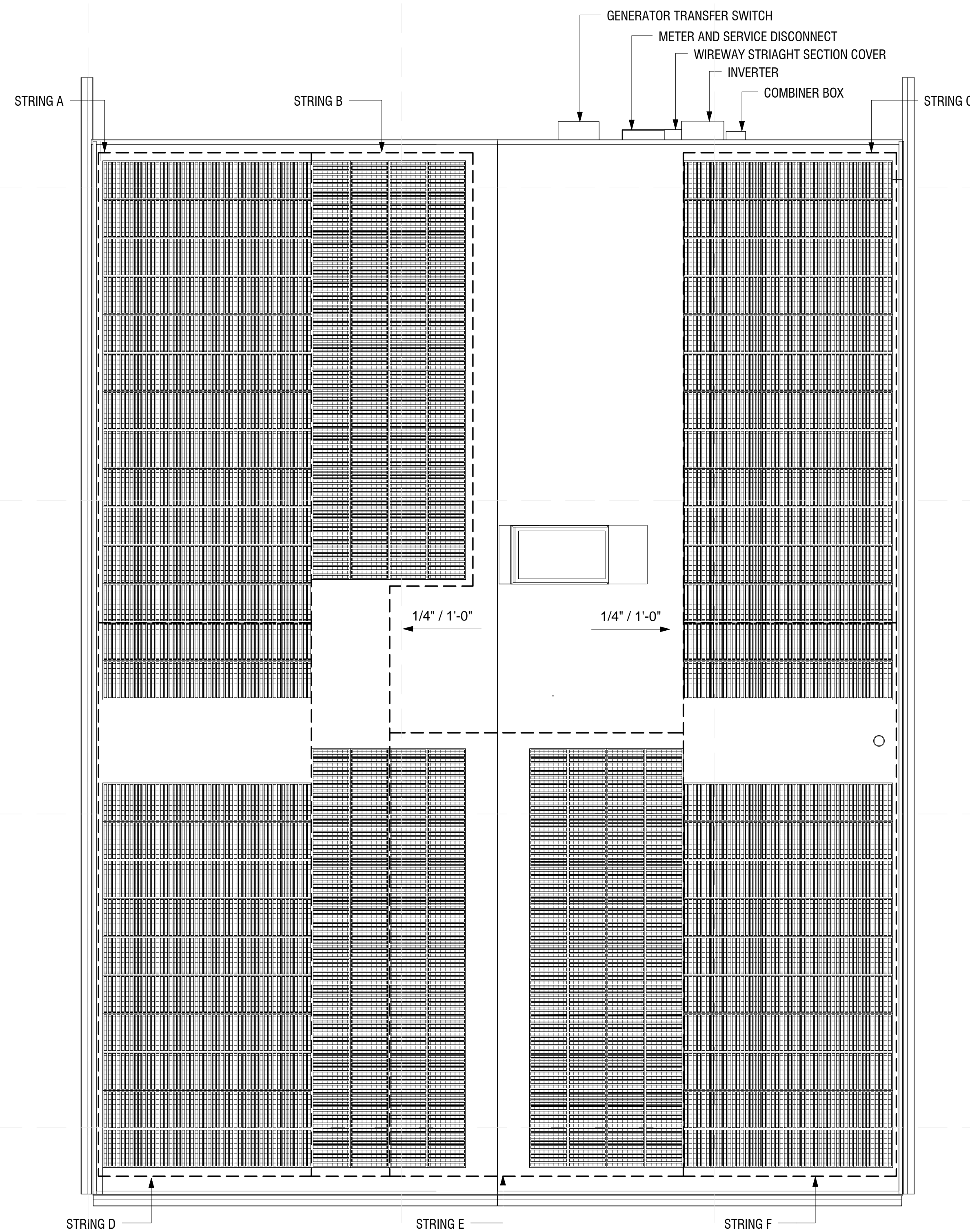
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GENERAL SHEET NOTES

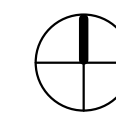
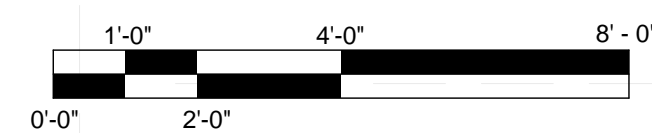
- WATER TANKS, EXTERIOR DECKS, SOLAR SHADING AND RAILINGS OMITTED FOR CLARITY
- CONDUCTORS WILL NOT BE EMBEDDED IN ROOF
- 3' CLEARANCE FOR GENERATOR TRANSFER SWITCH, METER AND SERVICE DISCONNECT AND INVERTER

REFERENCE KEYNOTES

- 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT



A2 PV ARRAY PLAN
3/8" = 1'-0"

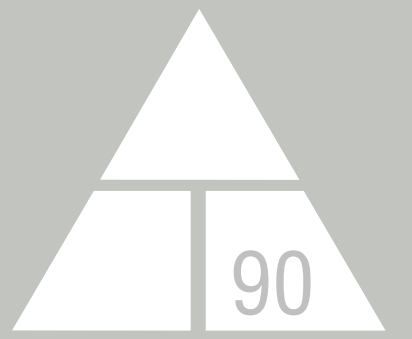


GENERAL SHEET NOTES

- WATER TANKS, EXTERIOR DECKS, SOLAR SHADING AND RAILINGS OMITTED FOR CLARITY

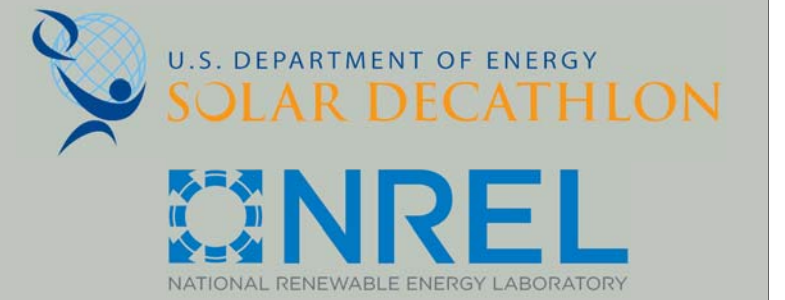
REFERENCE KEYNOTES

-14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT



NORWICH UNIVERSITY

158 HARMON DR.
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CONSULTANT: MATTHEW LUTZ
CONSULTANT: EDWIN SCHMECKPEPER

REVISIONS

No.	Description	Date

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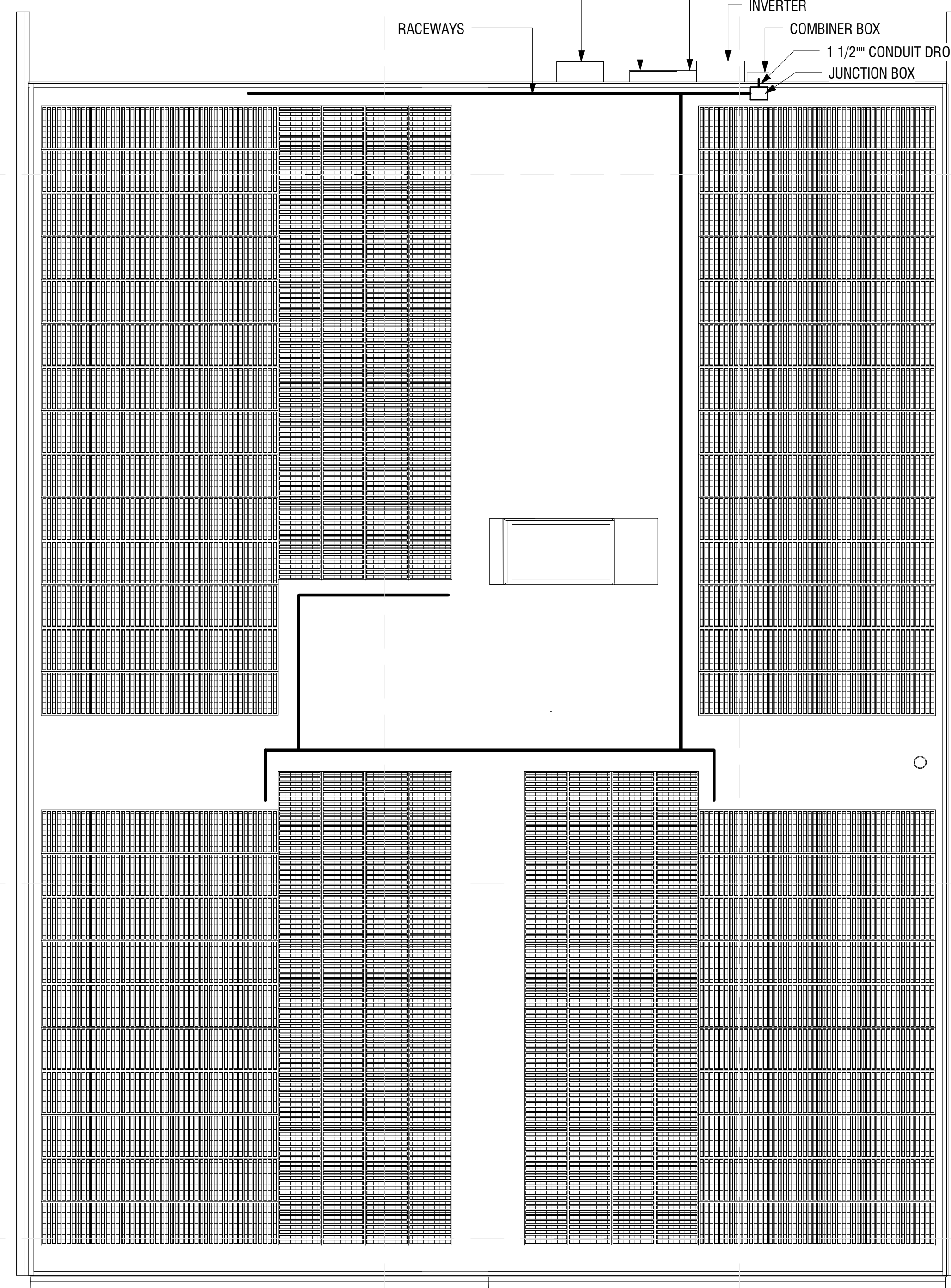
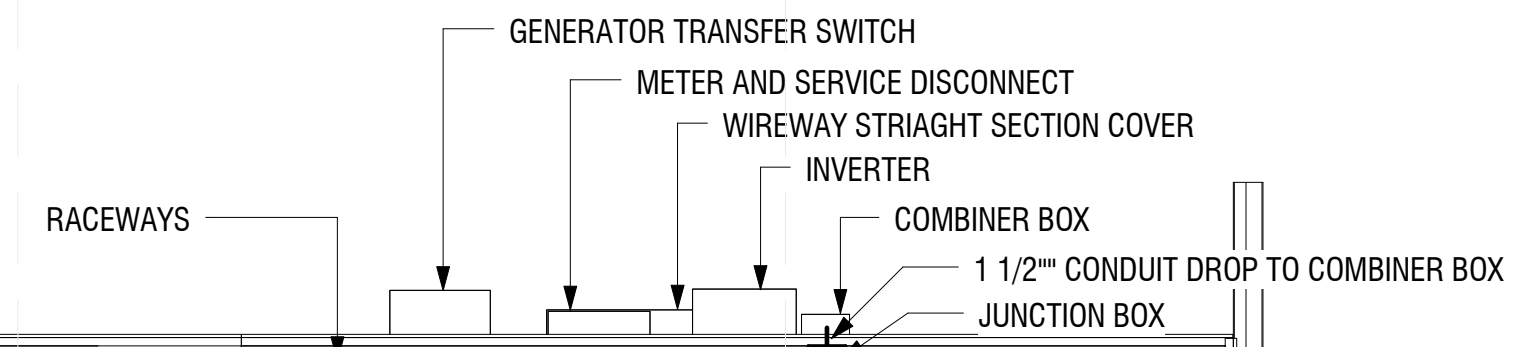
DELTA T90

PV RACEWAY PLAN

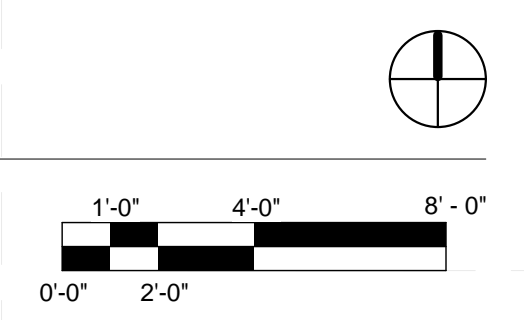
Date 2012/8/1
Drawn by Author

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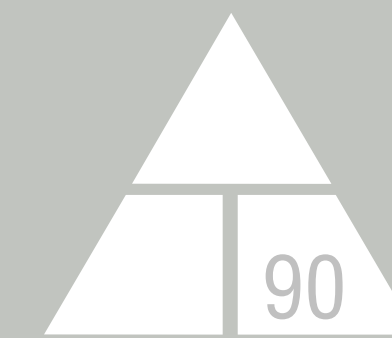


A2 PV CONDUIT PLAN
3/8" = 1'-0"

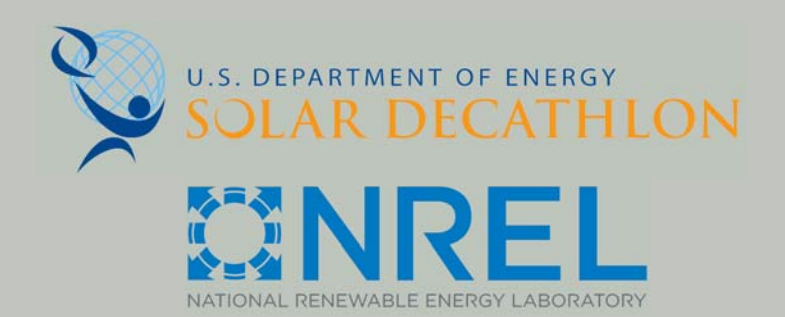


E
D
C
B
A

1 2 3 4 5 6 7



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REVISIONS

No.	Description	Date
1.	NARRATIVE REVISIONS	4/1/13

AS BUILT

DELTA T90

PV DESIGN CHOICE SUMMARY

Date 2012/8/1
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REFERENCE KEYNOTES

-48 14 00: SOLAR ENERGY ELECTRICAL POWER GENERATION EQUIPMENT

SOLOPANEL MODEL SP1:

Electrical characteristics
Rated Power (Pmax): 95 W
Voltage at Pmax (Vmp): 26.2 V
Current at Pmax (Imp): 3.6 A
Short-circuit current: 4.2 A
Open-circuit Voltage: 34.8 V
Efficiency: 12.5%

Temp. Co-efficient of Isc	%/C	-0.03
Temp. Co-efficient of Voc	%/C	-0.03
Max Series Fuse Rating A		7
Maximum DC Voltage	VDC	600

Physical Characteristics

Length	86.1 in / 2.189 m
Width	15.7 in / 0.399 m
Thickness	0.1 in / 2.0 mm
Weight	4.6 lbs / 2.1 kg
Roof Load from Module	0.49 lbs/ft ² / 2.4 kg/m ²

SOLAR BOS SOURCE CIRCUIT COMBINER:

Number of Input Circuits: 6
Input Conductor Size Range (AWG): #16 to 4
Max Fuse Size (Amps): 30
Max Rated Current (ADC Continuous): 310
Number of Output Conductors: 1
Output Conductor Size Range (AWG): #6 to 350 kcmil
Steel Enclosure Dimensions: 16" x 12" x 8"
Approximately Weight (Fiberglass): 18lbs
Enclosure NEMA Ratings: 3R / 4/ 4x

SOLECTRIA RENEWABLE PVI 6500 TECHNICAL DATA:

DC Output

Absolute Maximum Input Voltage	600 VDC
MPPT Input Voltage Range	230-500 VDC
Maximum Operating Input Current	35 A

AC Output (240VAC)

Continuous Output Power:	6500W
Continuous Output Current:	27.1 A
AC Voltage Range (Standard)	-12% / +10%
Maximum Backfeed Current	0 A
Nominal Output Frequency	60 Hz
Output Frequency Range	59.3 - 60.5 Hz
Power Factor:	Unity, > 0.99
Total Harmonic Distortion (THD)	<3%

Efficiency

Peak Efficiency: 96.3%
CEC Efficiency: 96.0%
Tare Loss: 0.5W

Mechanical Data

Ambient Temperature Range	-25C to +55C
Storage Temperature Range	-25C to +65C
Relative Humidity (non-condensing)	5-95%
Dimensions	28.8 in. x 17.3 in. x 8.2 in. (732 mm x 438 mm x 208 mm)
Weight	88.9 lbs (40.4 kg)
Enclosure Rating	NEMA 3R
Enclosure Finish	Painted Aluminum

METER-RITE GRADE LEVEL DOUBLE THROW SWITCH MODEL 7205A

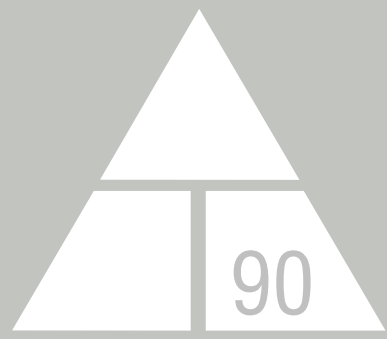
Approximate Weight: 35 lbs
DPDT with 200 A main contacts, 200 A aux contacts
Conduit Knockout Size: (3) 1-1/2 to 2
Hub Type: (1) 1/2
Range[®] A
Dimensions: 16-3/4" x 8-9/16" x 24-1/4"

The Delta-T-90 House uses a -5.9 KW Copper Indium Gallium di Selenide (CIGS) thin-film flexible photovoltaic array mounted to the exterior TPO roof membrane via an Velcro Adhesive backed 3M SJ3870 (Type 250) fastener system. The PV panels use a Solectria Renewable PVI 6500 inverter to convert DC electricity to AC electricity at the source of power generation.
The PV system was sized by using loads calculated in PHPP2007 and averaged with other estimates. The array is adjusted to accommodate being under snow cover for 120. This ultra-conservative approach was then used to size the needed array in PV Watts2 with zip code 05663.

- Design criteria for photovoltaic array system:
- All components manufactured in USA
 - Ultra-low-slope tilt eliminates solar orientation design criteria.
 - BIPV roof mounting minimizes overall built foot-print of the house, allowing greater flexibility in terms of site availability in urban / rural locations.
 - Non-penetrating, lightweight, ultra simple installation
 - Solopower Copper Indium Gallium di Selenide (CIGS) panels have impressive performance in low-light conditions.
 - BIPV – zero visual signature from ground
 - The Solectria Renewable PVI 6500 inverter performs at 96% efficiency.
 - The inverter is a fully integrated design, allowing for clean, safe, and simple installation and serviceability.

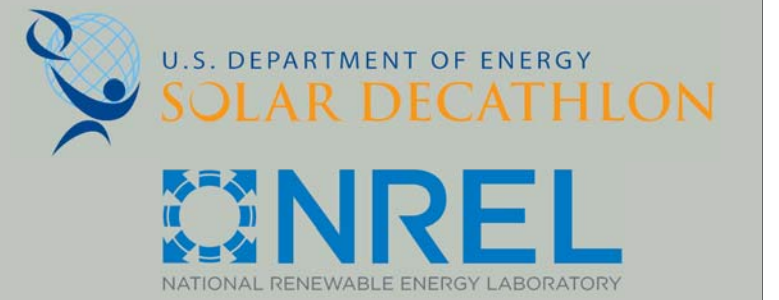
A2 PV NARRATIVE

A4 PV DESIGN CHOICE SUMMARY



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DELTA T90

ONE LINE DIAGRAM

Date 2012/8/1
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E-602

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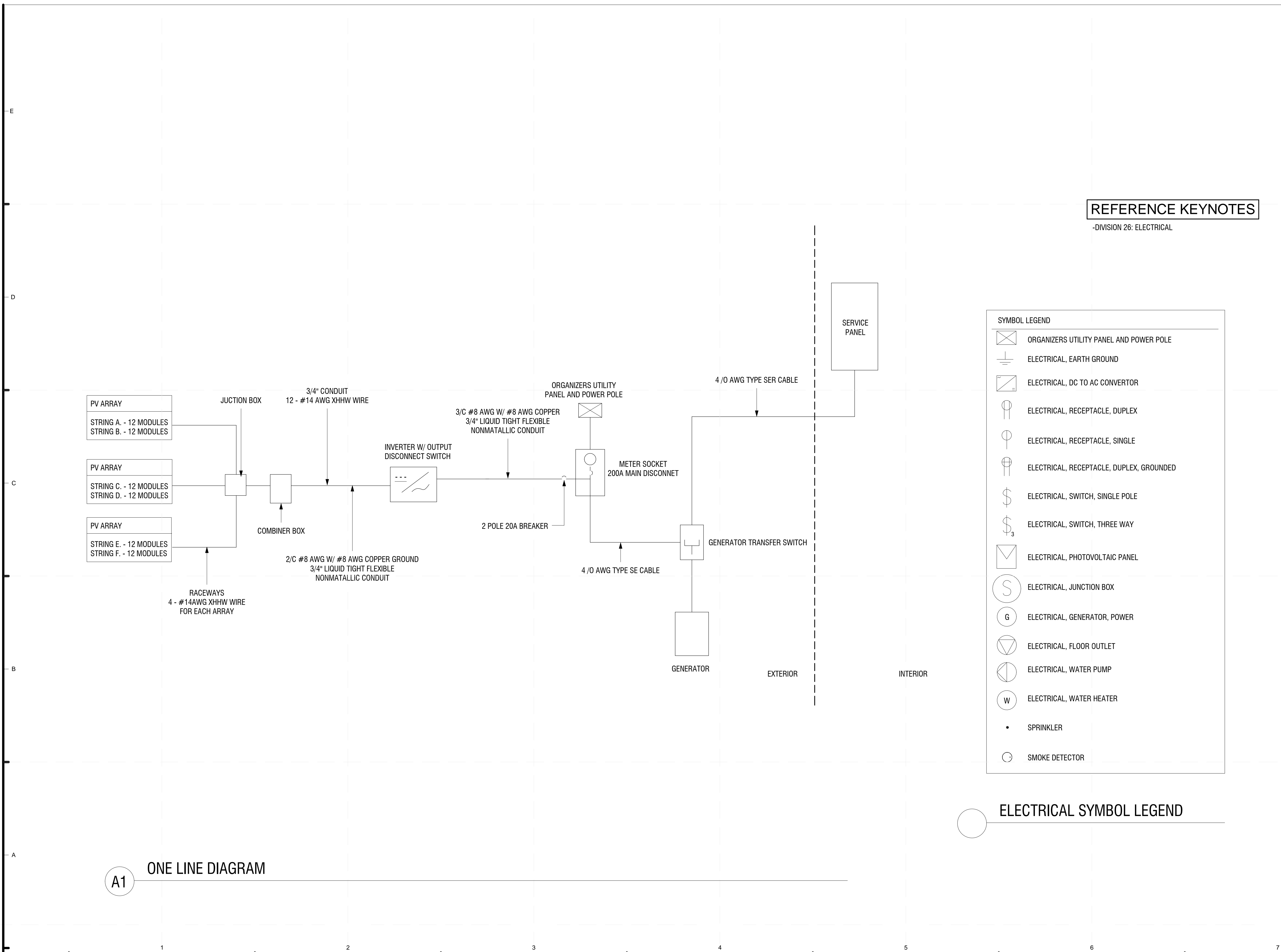
REFERENCE KEYNOTES

-DIVISION 26: ELECTRICAL

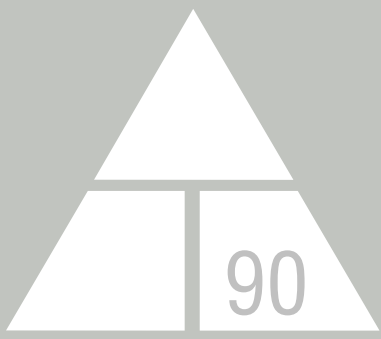
SYMBOL LEGEND

	ORGANIZERS UTILITY PANEL AND POWER POLE
	ELECTRICAL, EARTH GROUND
	ELECTRICAL, DC TO AC CONVERTOR
	ELECTRICAL, RECEPTACLE, DUPLEX
	ELECTRICAL, RECEPTACLE, SINGLE
	ELECTRICAL, RECEPTACLE, DUPLEX, GROUNDED
	ELECTRICAL, SWITCH, SINGLE POLE
	ELECTRICAL, SWITCH, THREE WAY
	ELECTRICAL, PHOTOVOLTAIC PANEL
	ELECTRICAL, JUNCTION BOX
	ELECTRICAL, GENERATOR, POWER
	ELECTRICAL, FLOOR OUTLET
	ELECTRICAL, WATER PUMP
	ELECTRICAL, WATER HEATER
	SPRINKLER
	SMOKE DETECTOR

ELECTRICAL SYMBOL LEGEND

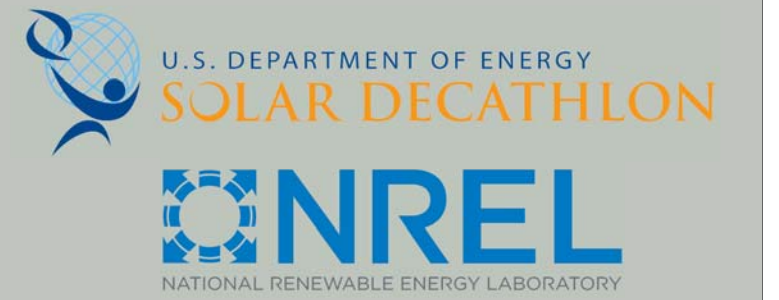


A1 ONE LINE DIAGRAM



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REVISIONS

No.	Description	Date
1.	DRAWING REVISIONS	4/1/13

AS BUILT

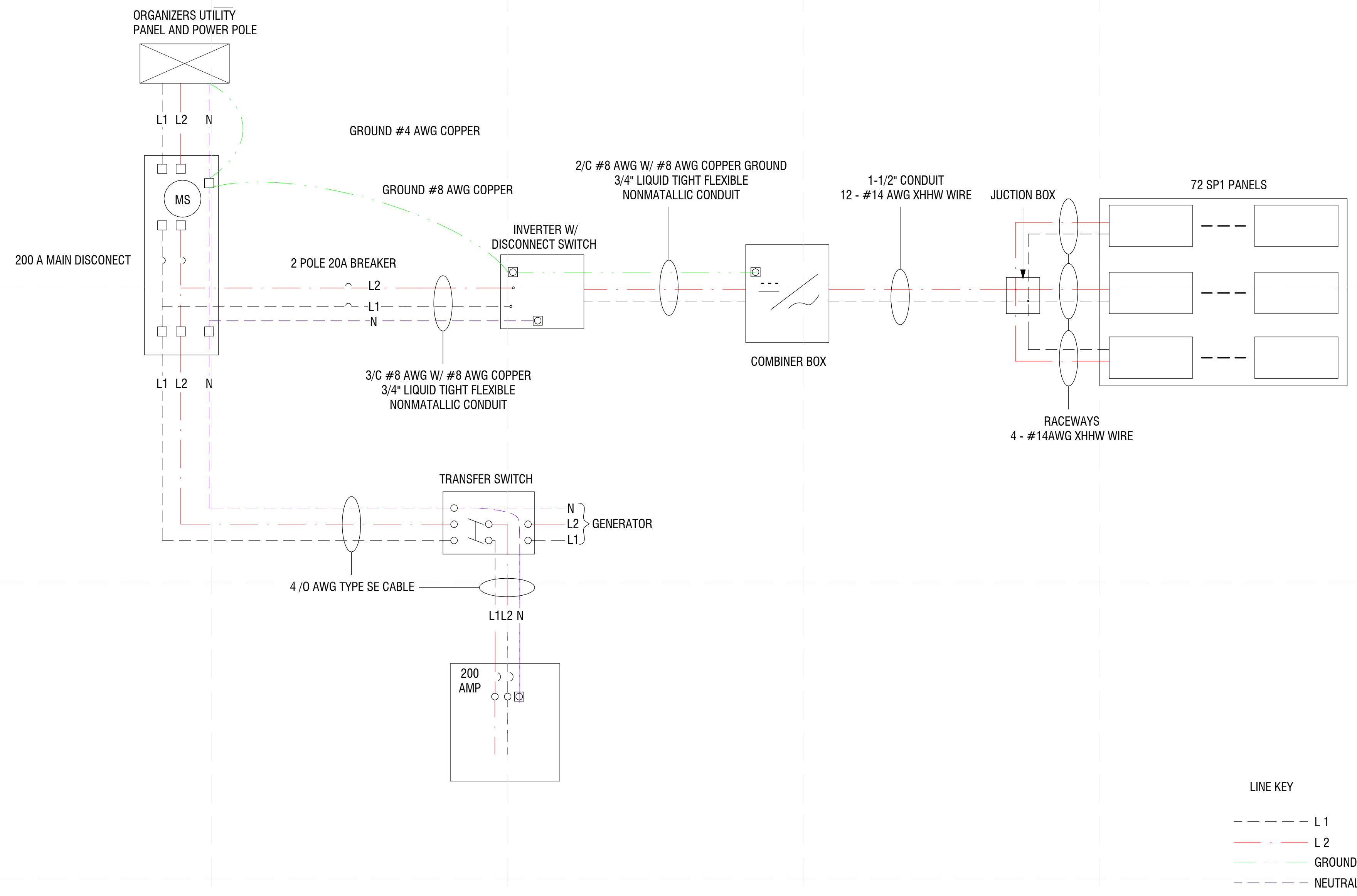
DELTA T90

PV THREE LINE DIAGRAM
& SCHEDULE

Date 2012/8/1
Drawn by Author

E-603

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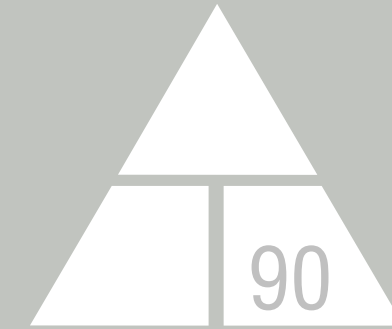
A2 PV THREE LINE DIAGRAM

E
D
C
B
A

1 2 3 4 5 6 7

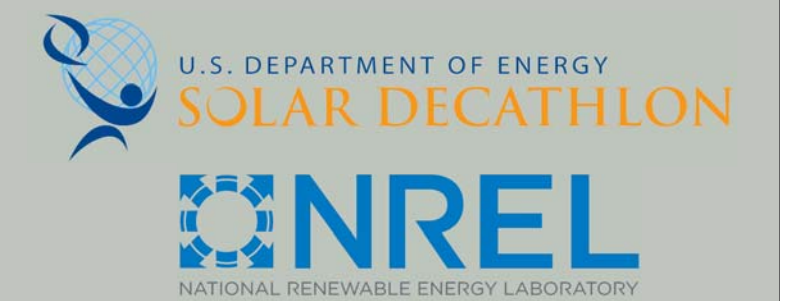
REFERENCE KEYNOTES

-DIVISION 26: ELECTRICAL



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REVISIONS

No.	Description	Date
1.	SERVICE PANEL ADJUSTMENTS	4/1/13

AS BUILT

DELTA T90

SERVICE PANEL
SCHEDULE

Date 2012/8/1
Drawn by Author

E-604

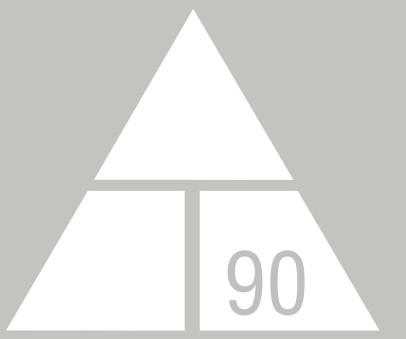
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PANEL BOX LAYOUT														
PANEL BOX											MAIN BUS RATING			
VOLTAGE:		120/240			MOUNTING: SURFACE			TYPE:		120/240		MAIN BREAKER		
BRANCH CIRCUIT		DEVICE			LOADS			DEVICE		BRANCH CIRCUIT				
LOAD	WIRE SIZE	VA	TRIP	POLE	CKT	1	2	CK	POLE	TRIP	VA	WIRE SIZE	LOAD	
RANGE	8	8320	40	2	1			2	2	50		6	GENERATOR	
					3			4						
M. BEDROOM LIGHT/RECEPTACLE	14		15	1	5			6	2	50	4500	6	WATER HEATER	
KITCHEN RECEPTACLES	12		20	1	7			8						
KITCHEN RECEPTACLES	12	1620+	20	1	9			10	1	15		14	S. BEDROOM LIGHT/RECEPTACLE/ ARC. FAULT	
MUDROOM/ENTRY	14		15	1	11			12	1	15		14	BATHROOM LIGHT/RECEPTACLES/ ARC. FAULT	
STUDY SPACE	14		15	1	13			14	1	15	1200	14	DISHWASHER	
UTILITY CLOSET	14		15	1	15			16	1	15	1800	14	REFRIGERATOR	
DOMESTIC WATER	10		15	1	17			18	1	15		14	LIVING ROOM/ ARC. FAULT	
EFFLUENT PUMP	10		15	1	19			20	1	15		14	EXTERIOR LIGHT/RECEPTACLES SOUTH	
					21			22	1	15		14	EXTERIOR LIGHT/RECEPTACLES WEST	
FIRE PROTECTION PUMP	10		20	2	23			24	1	15	2.798	14	HRV LUNOS NORTH WALL	
WASHER/DRYER (4 PRONG PLUG)	12	1380	20	1	25			26	1	15	2.798	14	HRV LUNOS BATHROOM	
HEAT DIFFUSER (INDOOR)	12		15	1	27			28	1	15	2.798	14	HRV LUNOS LIVING/KITCHEN	
HEAT DIFFUSER (INDOOR)	12		15	1	29			30						
					31			32	2	30	1750	10	HEAT PUMP	
SOLAR PANEL	6		40	2	33			34						
					35			36						
SPARE 3														

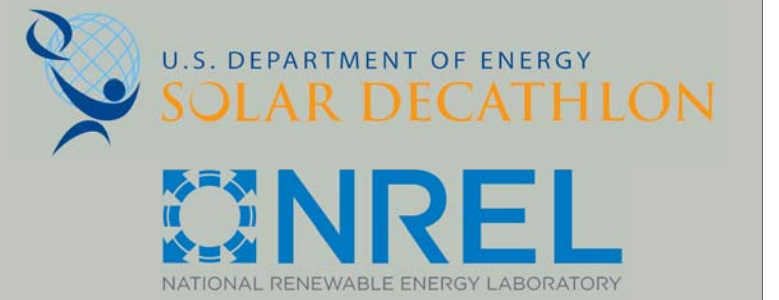
NOTE: "+" Means that more VA will be added to that Circuit

A1 SERVICE PANEL

OPERATIONS SHEET LIST	
SHT NO	SHEET NAME
O-001	GENERAL NOTES & LIST
O-101	ARRIVAL SEQUENCE
O-102	DEPARTURE SEQUENCE
O-109	WATER DELIVERY/REMOVAL
O-602	TRUCKING PLAN



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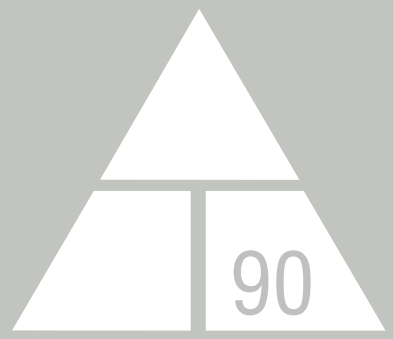
GENERAL NOTES & LIST

Date 2012/8/1
 Drawn by Author

O-001

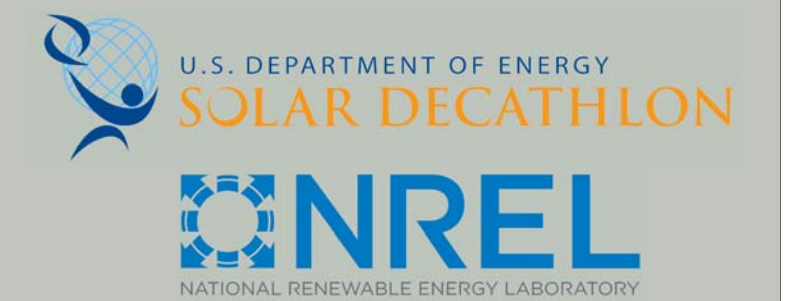
REFERENCE KEYNOTES

-02 21 13: SITE SURVEYS
-02 43 13.13: BUILDING RELOCATION



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No.	Description	Date

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DELTA T90

ARRIVAL SEQUENCE

Date 2012/8/1
Drawn by Author

0-101

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D1 EMPTY SITE, INSTALL SHELTER

D2 LOCATE, LEVEL ANCHOR PADS

D3 CRANE ARRIVES

D4 WEST MODULE ARRIVES/ WEST MODULE IS PLACED

C1 CRANE LIFTS MODULE INTO PLACE

C2 PLACE EAST MODULE

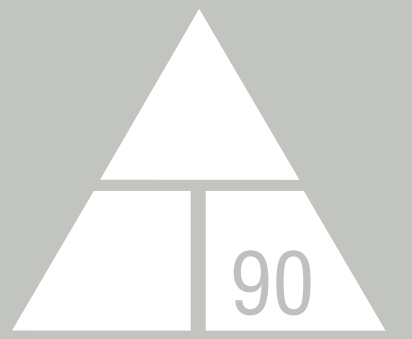
C3 CRANE DEPARTS

A1 ASSEMBLE FALL PROTECTION, INSTALL SKYLIGHT

A3 INSTALL SOLAR PANELS

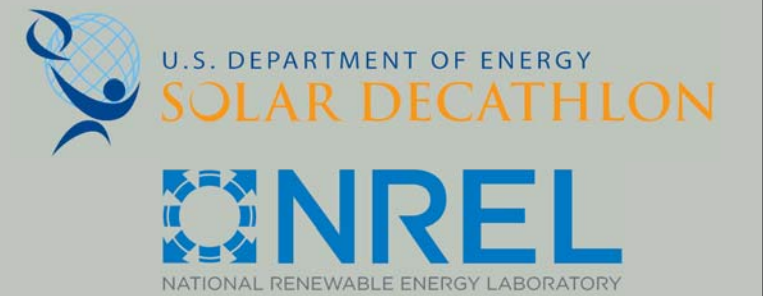
A4 WATER TANKS/ TANKADE ARRIVE

A5 INSTALL LANDSCAPING AND DECKING



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REVISIONS

No.	Description	Date

AS BUILT

DELTA T90

REFERENCE KEYNOTES
-02 43 13.13 BUILDING RELOCATION

DEPARTURE SEQUENCE

Date 2012/8/1
Drawn by Author

0-102

8/10/2013 12:00:25 AM



E1 COMPLETE SITE

E2 REMOVE LANDSCAPE, WATER TANKS, TANKADE

E4 UNINSTALL SOLAR PANELS

E6 UNINSTALL SKYLIGHT

C1 DEPARTURE CRANE ARRIVES

C2 EAST MODULE LIFT AND DEPARTURE

C4 WEST MODULE LIFT AND DEPARTURE

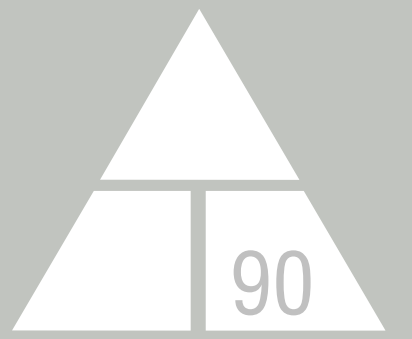
C6 CRANE DEPARTURE

A1 ANCHORING REMOVAL

A2 EMPTY SITE

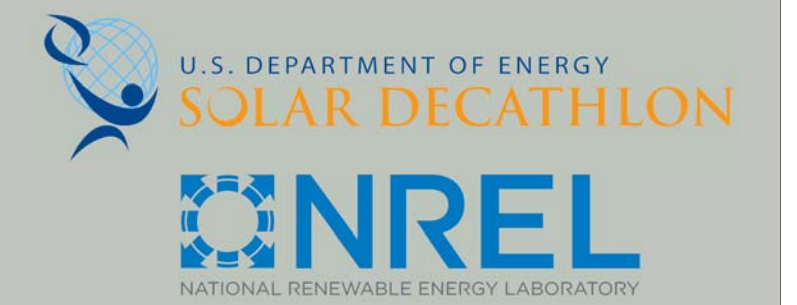
REFERENCE KEYNOTES

- 02 21 13: SITE SURVEYS
- 02 43 13.13: BUILDING RELOCATION
- DETAILED WATER BUDGET



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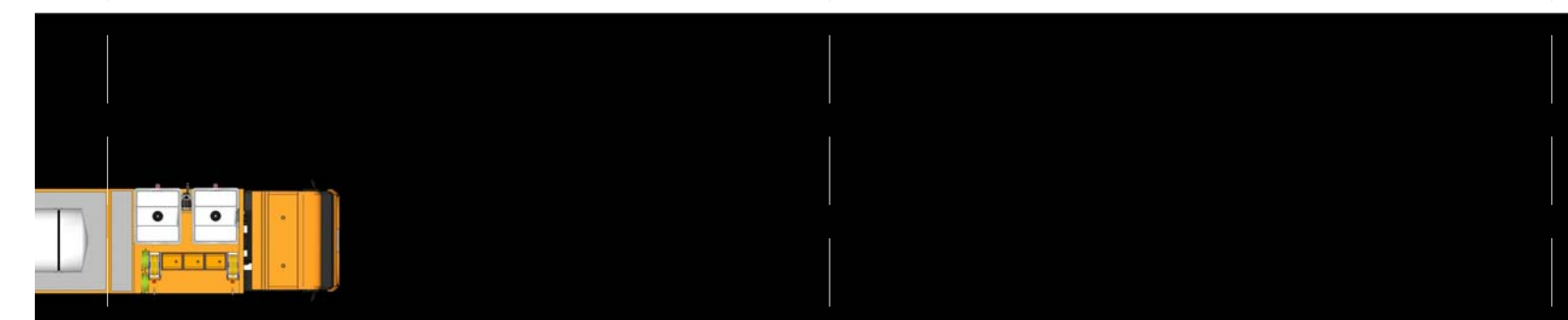
DELTA T90

WATER
DELIVERY/REMOVAL

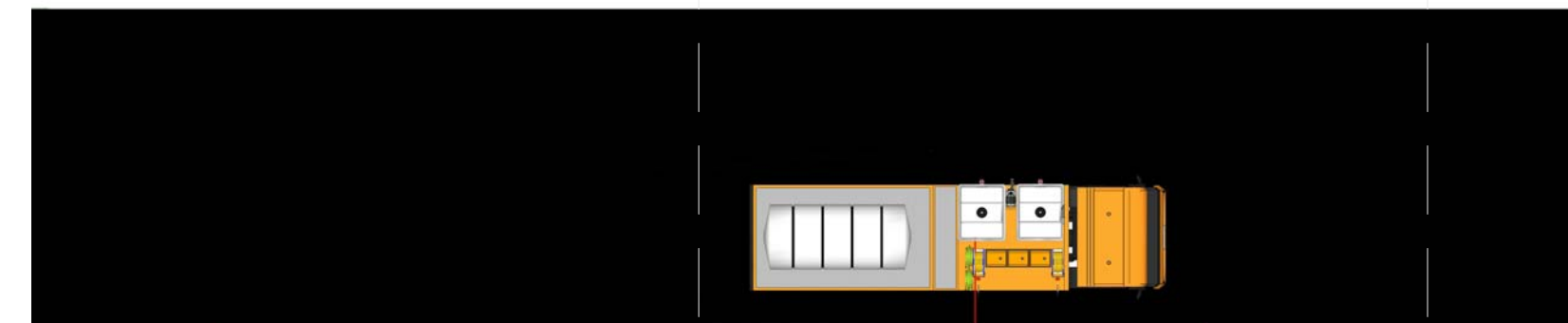
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Author

0-109

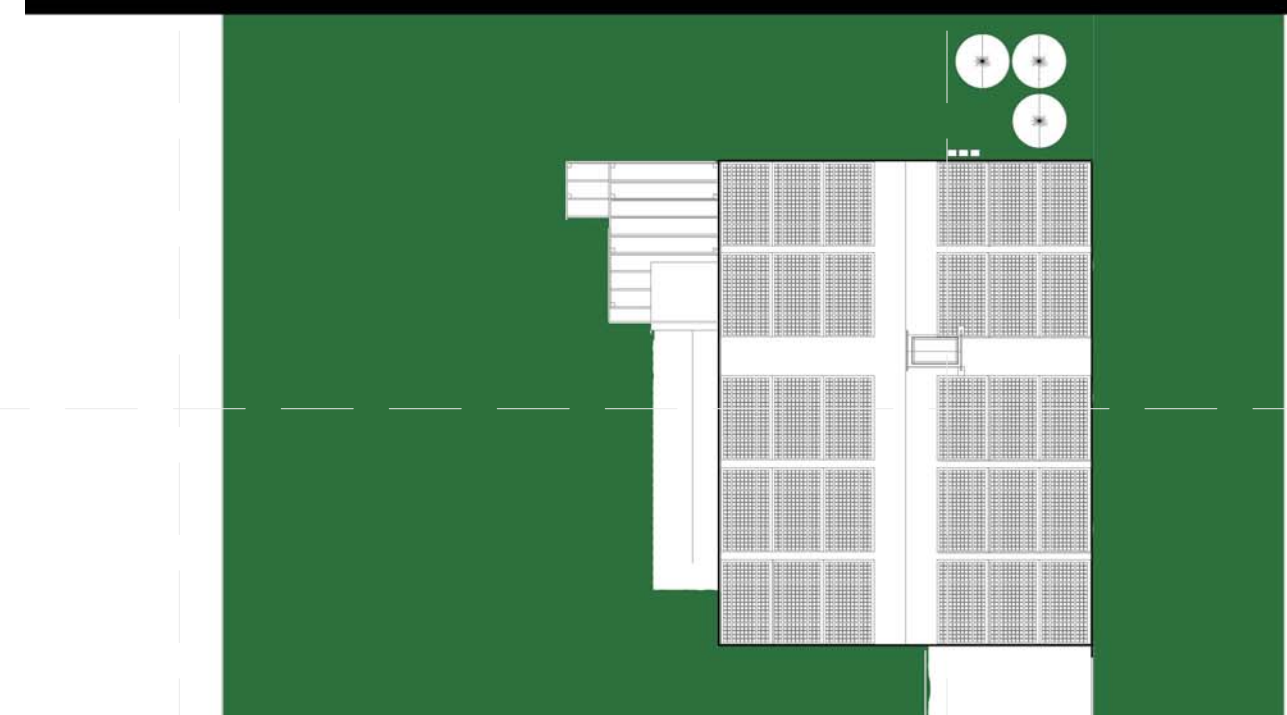
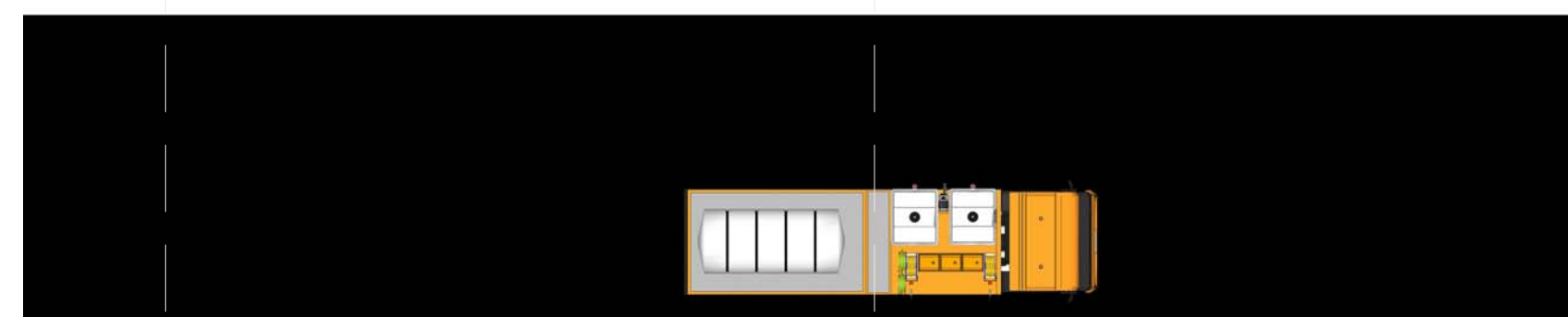
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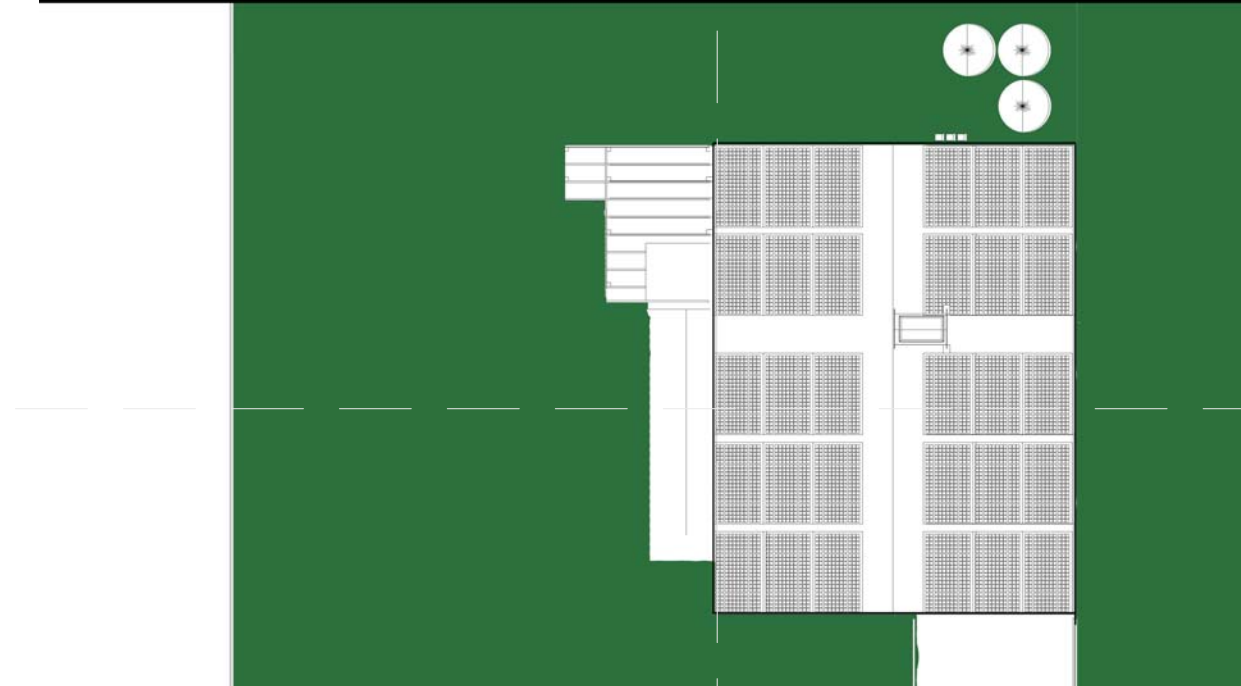
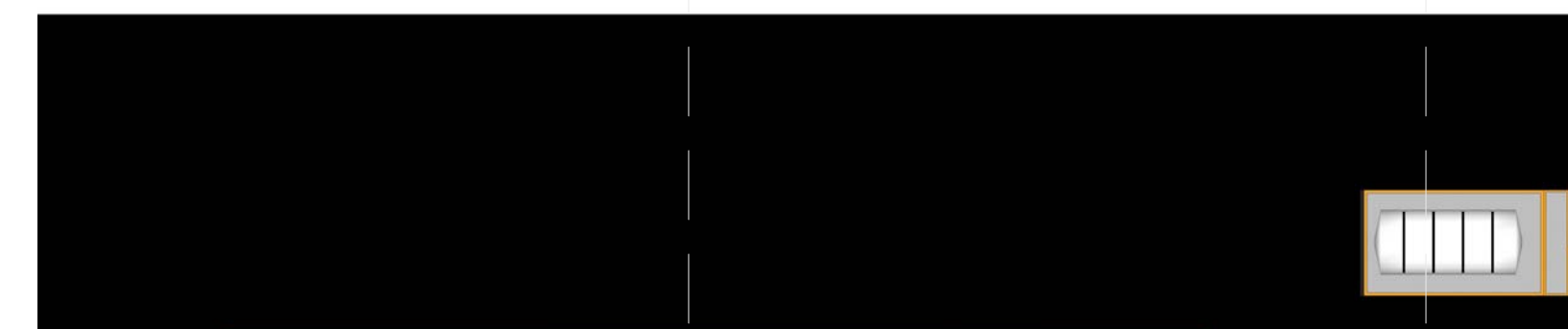
C1 STEP 1 (WATER ARRIVAL)



C4 STEP 2 (WATER HOOKUP)



A1 STEP 1 (WATER DETACH)



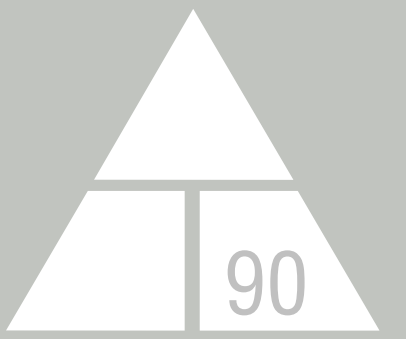
A4 STEP (WATER TRUCK LEAVING)

E
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1 2 3 4 5 6 7

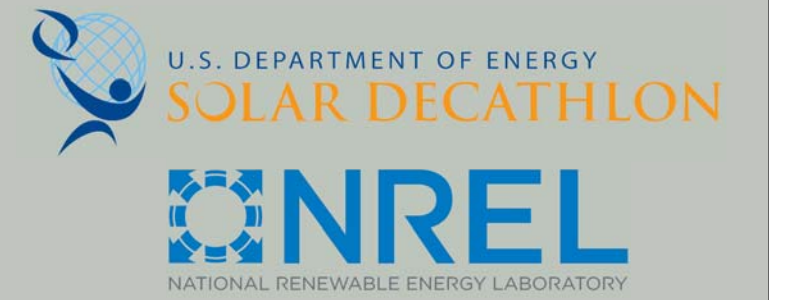
REFERENCE KEYNOTES

-02 43 13.13: BUILDING RELOCATION
 -02 21 13.13: BOUNDARY AND SURVEY MARKERS



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REVISIONS

No.	Description	Date

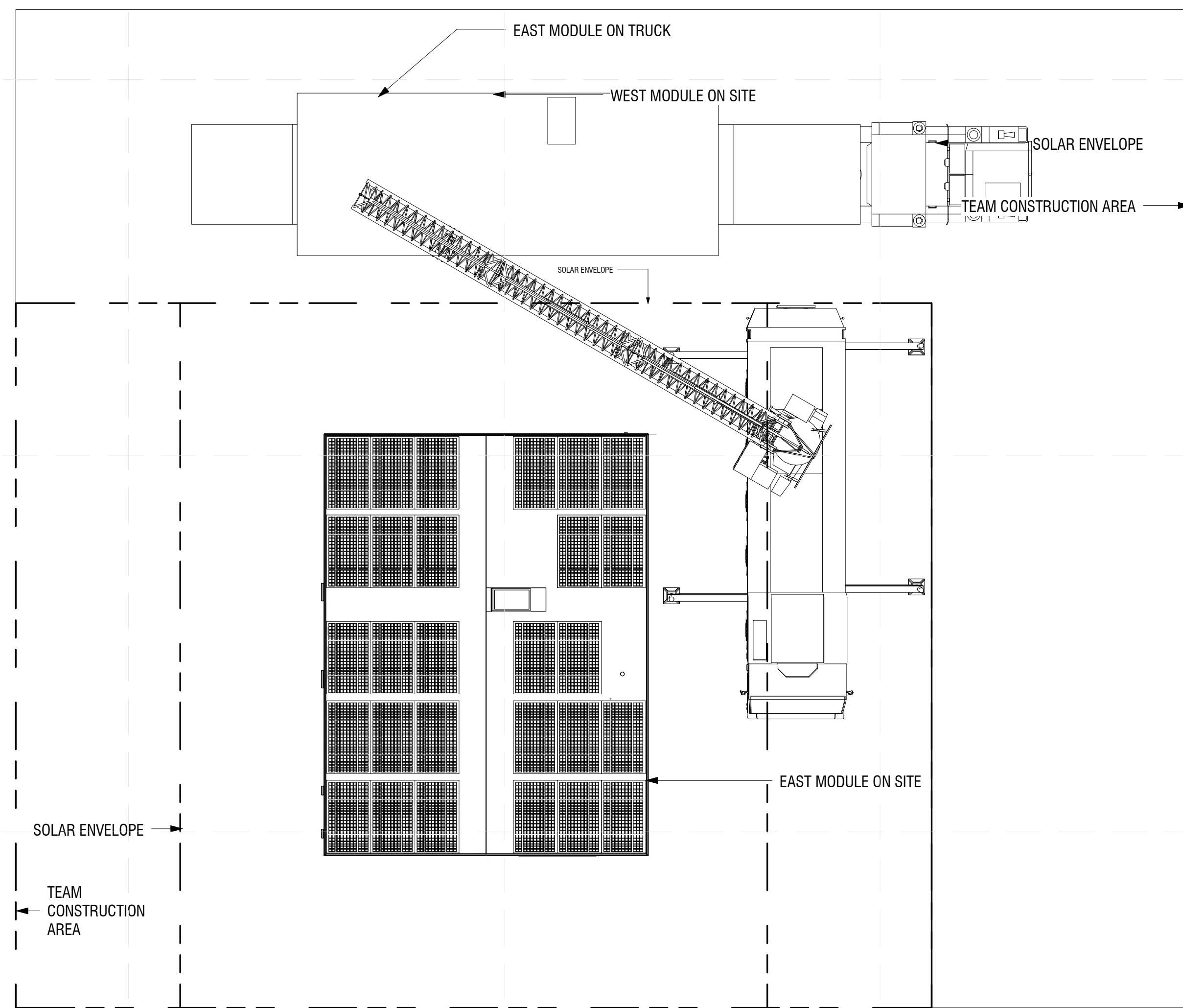
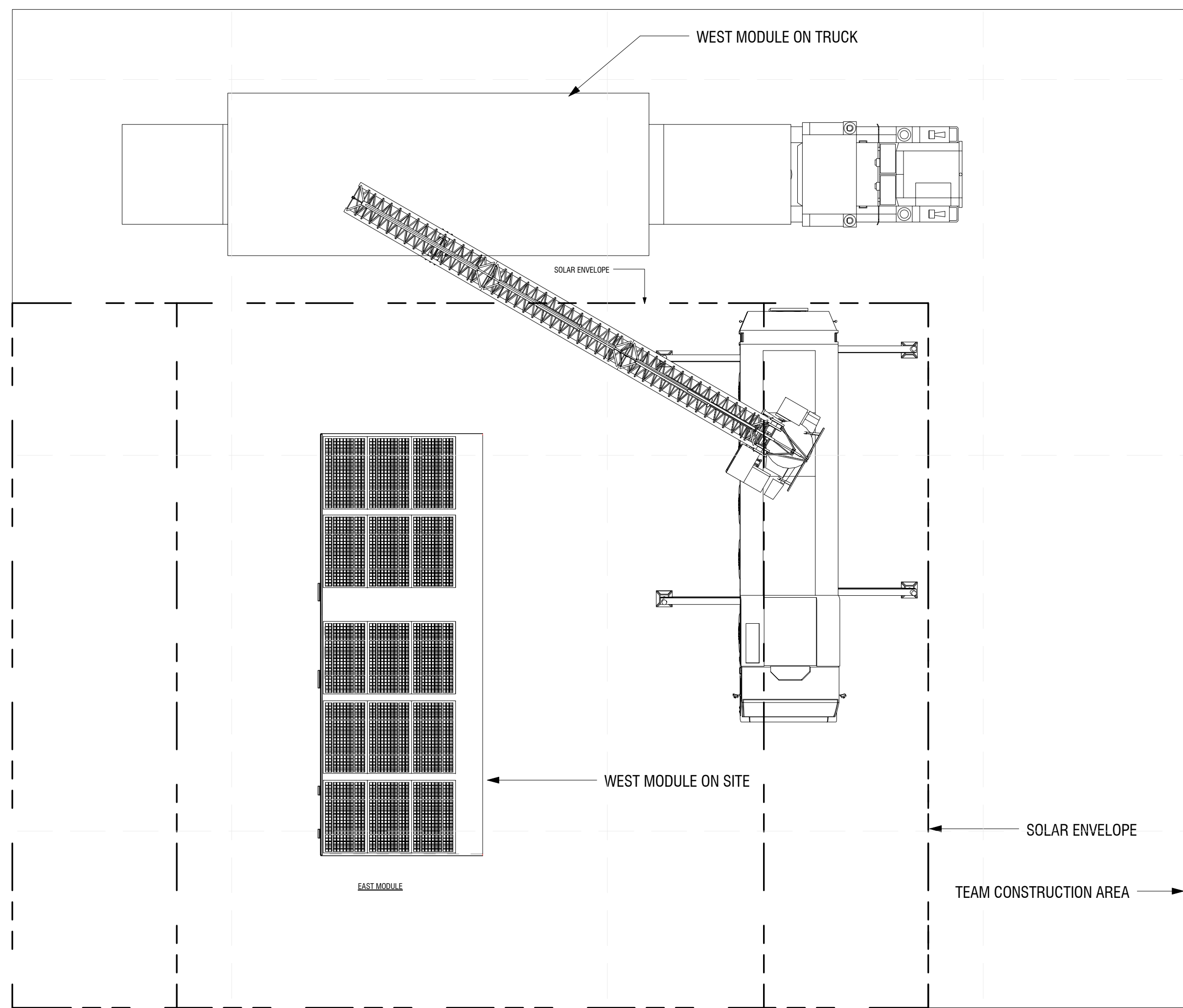
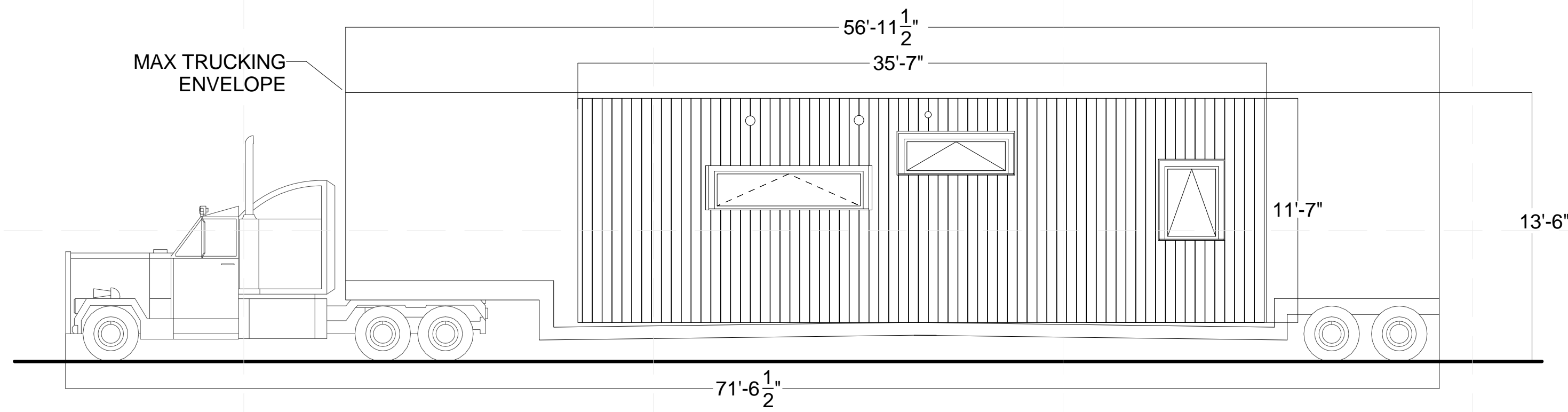
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DELTA T90

TRUCKING PLAN

Date 2012/8/1
 Drawn by Author

0-602



A1 TRUCKING PLAN
 1/8" = 1'-0"

