

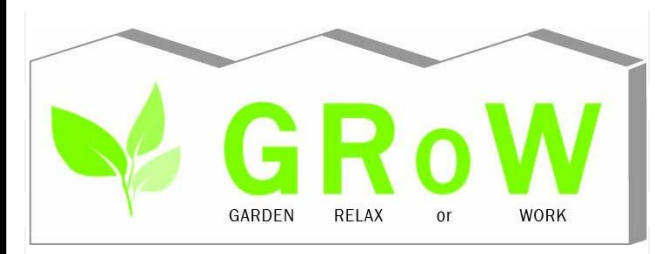


SOLAR DECATHLON 2015

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

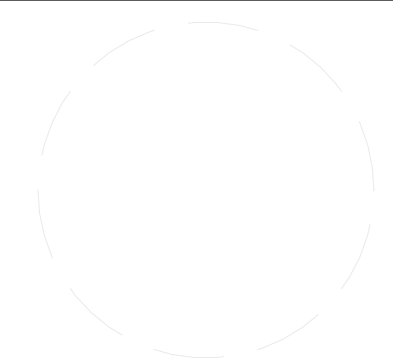


(A1) G-001 SECTIONAL PERSPECTIVE



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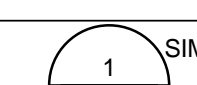
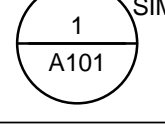

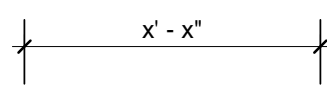

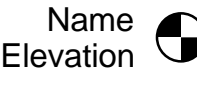
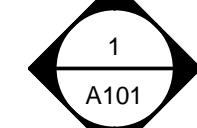
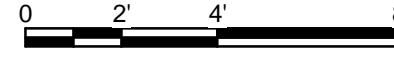
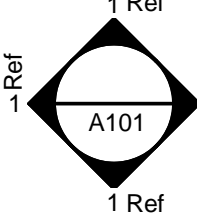

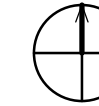
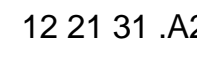
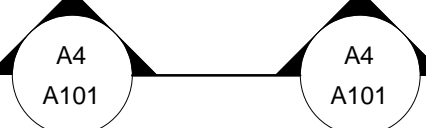





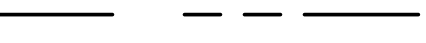
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 SHEET TITLE

COVER PAGE

G-001

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SYMBOL LEGEND	
AREA TAG	DESCRIPTION
	ROOM NAME
	AREA TAG
	CALLOUT TAG
	CENTERLINE
	DIMENSION LINE
	DOOR TAG
	ELEVATION MARKER
	EXTERIOR ELEVATION TAG
	GRAPHIC SCALE
	INTERIOR ELEVATION TAG
	MODULE BREAK LINE
	NORTH ARROW
	REFERENCE KEYNOTE TAG
	SECTION TAG
	EQUIPMENT CALL OUT
	SPOT ELEVATION
	STRUCTURAL GRID TAG
	WALL TAG
	WINDOW TAG
	SOLAR ENVELOPE

ABBREVIATION LEGEND	
ABBREVIATION	DESCRIPTION
MFGR	MANUFACTURED
OSB	ORIENTED STRAND BOARD
O.A.	OVERALL
NOM	NOMINAL
TBD	TO BE DETERMINED
TYP	TYPICAL

REGULATORY SUMMARY

THIS SET OF DRAWINGS POTENTIALLY ABIDES BY ALL NYS CODES, CONTINGENT UPON FINAL SITING OF HOUSE.

IN CALIFORNIA, FOLLOW ALL DOE REQUIREMENT FOLLOWING CODES UNDER A PLACE OF ASSEMBLY AND SEISMIC B-REGULATIONS.

DURING CONSTRUCTION, FOLLOW ALL OSHA REQUIREMENTS AS ADMINISTERED BY UB FACILITIES.

DURING TRANSPORTATION, THE TRANSPORTATION COMPANY SHALL ABIDE BY ALL APPLICABLE DOT REGULATIONS AND BE REGISTERED TO ALL PERMITS THAT APPLY.

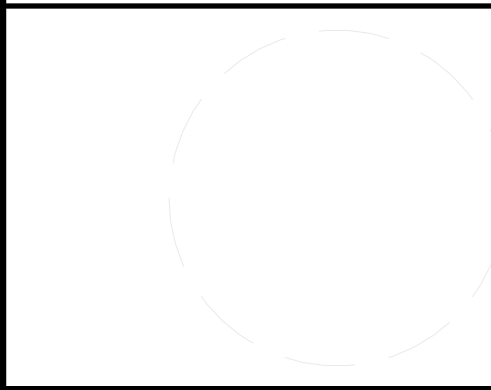
SHEET LIST		
SHT NO	SHEET NAME	Drawn By
G-001	COVER PAGE	DW
G-002	TABLE OF CONTENTS GENERAL NOTES AND SYMBOLS	DW
G-101	FINISHED SQUARE FOOTAGE COMPLIANCE PLAN	DW
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G-103	ADA TOUR ROUTE COMPLIANCE PLAN	DW
G-201	SOLAR ENVELOPE COMPLIANCE ELEVATIONS	DW
G-202	SOLAR ENVELOPE COMPLIANCE ELEVATIONS	DW
G-601	SHADING DIAGRAMS	DW
H-101	LIQUID LOCATION AND SPILL CONTAINMENT PLAN	DW
C-101	GROUND CONTACT PLAN	CO
C-103	SITE UTILITY PLAN	IF
C-301	GROUND CONTACT SECTIONS	CO
C-302	GROUND CONTACT SECTIONS	CO
L-101	LANDSCAPE AND PLANTING SITE PLAN	DW
S-101	FOUNDATION PLAN	MK
S-102	STEEL SUBSTRUCTURE FRAMING PLAN	MK
S-103	SIP FLOOR FRAMING PLAN	NH
S-104	INTERIOR FLOOR FRAMING PLAN	JT
S-105	DECK FRAMING PLAN	JT
S-106	SIP PLAN	NH
S-107	SIP ROOF FRAMING PLAN	NH
S-201	SIP ELEVATIONS	NH
S-202	SIP ELEVATIONS	NH
S-301	SIP SECTIONS	NH
S-501	SIP PLAN DETAILS	NH
S-511	SIP SECTION DETAILS	NH
S-512	SIP MODULE CONNECTION DETAILS	NH
S-521	DECK DETAILS	MK
S-522	DECK DETAILS	JT
S-601	STEEL SUBSTRUCTURE	CO
SC-001	COVER SHEET - CANOPY + GROWLARIUM	CO
SC-101	CANOPY ROOF PLAN	CO
SC-102	GROWLARIUM ROOF PLAN	CO
SC-103	CANOPY FLOOR PLAN	CO
SC-121	INSTALLATION DWG CANOPY REFLECTED CEILING PLAN	CO
SC-122	GROWLARIUM REFLECTED CEILING PLAN	CO
SC-201	GROWLARIUM INTERIOR ELEVATIONS	CO
SC-202	GROWLARIUM INTERIOR ELEVATIONS	CO
SC-203	GROWLARIUM GABLE ENCLOSURE	CO
SC-305	CANOPY STRUCTURE BUILDING SECTIONS	CO
SC-505	CANOPY STRUCTURE TYPICAL SECTIONS	CO
SC-506	CANOPY + GROWLARIUM DETAILS	CO
SC-507	CANOPY + GROWLARIUM DETAILS	CO
SC-511	GROWLARIUM COLUMN PLAN DETAILS	CO
SC-512	GROWLARIUM COLUMN PLAN DETAILS- CLERESTORY	CO
A-101	SITE PLAN	DW
A-102	DECK PLAN	DW
A-111	FIRST FLOOR PLAN	DW
A-112	FIRST FLOOR DIMENSIONED PLAN	DW
A-113	ROOF PLAN (MODULES)	DW
A-121	FIRST FLOOR REFLECTED CEILING PLAN	DW
A-201	SITE ELEVATIONS	DW
A-202	SITE ELEVATIONS	DW
A-203	MODULE ELEVATIONS	DW
A-204	MODULE ELEVATIONS	DW
A-301	BUILDING SECTIONS	DW
A-302	BUILDING SECTIONS	DW

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A-312	WALL SECTIONS	DW
A-313	WALL SECTIONS + CANOPY STRUCTURE	DW
A-321	FLOOR SECTIONS	DW
A-331	CEILING SECTION	DW
A-401	DIMENSIONED PLAN - WET MODULE	DW
A-402	DIMENSIONED PLAN - DRY MODULE	DW
A-403	DIMENSIONED PLAN - GROWLARIUM	DW
A-404	GROWLARIUM CLERESTORY PLAN	DW
A-501	PLAN DETAILS	DW
A-531	FIXED WINDOW DETAILS	TK
A-532	CASEMENT WINDOW DETAILS	TK
A-541	DOOR DETAILS	TK
A-542	DOOR DETAILS	TK
A-561	ROOF DETAILS	TK
A-562	SCUPPER DETAILS	TK
A-571	SIDING DETAILS	TK
I-101	INTERIOR DESIGN AND FURNITURE PLAN	DW
I-201	INTERIOR ELEVATION BEDROOM	DW
I-202	INTERIOR ELEVATION BATHROOM	DW
I-203	INTERIOR ELEVATION LIVING ROOM	DW
I-204	INTERIOR ELEVATION KITCHEN	DW
I-205	WALL REVEALS LAYOUT	TK
I-401	LARGE SCALE WORK/KITCHEN + BATHROOM PLAN	DW
I-402	LARGE SCALE LIVING ROOM + BEDROOM PLAN	DW
I-580	REVEAL DETAILS	TK
F-101	FIRE DETECTION, SUPPRESSION, ALARM	DW
F-602	FIRE PROTECTION DIAGRAMS	DW
P-101	DOMESTIC COLD WATER SUPPLY	DW
P-102	DOMESTIC HOT WATER SUPPLY	DW
P-103	SANITARY RETURN	DW
P-601	PLUMBING DIAGRAM	DW
P-901	PLUMBING ISOMETRIC	DW
M-101	HVAC EQUIPMENT AND DISTRIBUTION PLAN	DW
M-201	MECHANICAL ELEVATIONS	DW
M-202	MECHANICAL ELEVATIONS	DW
M-401	LARGE SCALE FLOOR PLAN	DW
M-602	HVAC DIAGRAMS	DW
M-603	SOLAR THERMAL DIAGRAMS	DG
M-604	HVAC SCHEMATIC	DG
M-901	HVAC ISOMETRICS	DW
E-001	ELECTRICAL SYMBOLS AND NOTES	IF
E-101	ELECTRICAL DISTRIBUTION PLAN	IF
E-102	PV WIRING PLAN	IF
E-103	LIGHTING PLAN	IF
E-601	ONE-LINE DIAGRAM	IF
E-602	THREE-LINE DIAGRAM	IF
E-603	SCHEDULES	IF
O-101	ARRIVAL CONSTRUCTION SEQUENCE	CO
O-102	ARRIVAL CONSTRUCTION SEQUENCE	CO
O-103	DEPARTURE CONSTRUCTION SEQUENCE	CO
O-104	DEPARTURE CONSTRUCTION SEQUENCE	CO
O-901	ASSEMBLY SEQUENCE AXONOMETRICS	CO



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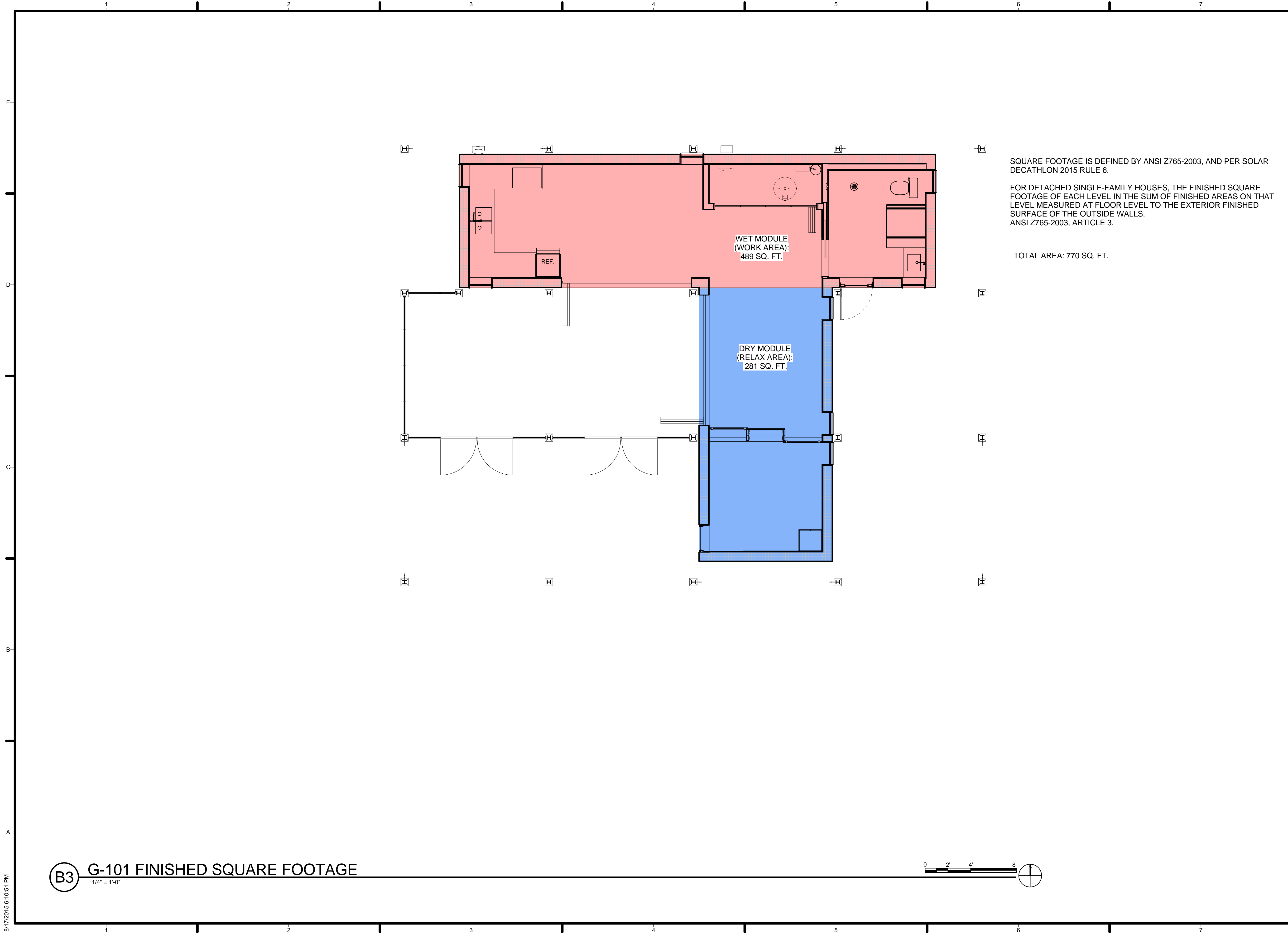
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TABLE OF CONTENTS
 GENERAL NOTES AND
 SYMBOLS

G-002



SQUARE FOOTAGE IS DEFINED BY ANSI Z765-2003, AND PER SOLAR DECATHLON 2015 RULE 6.

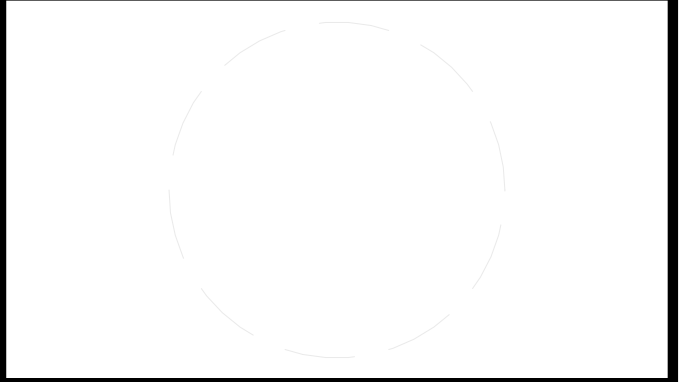
FOR DETACHED SINGLE-FAMILY HOUSES, THE FINISHED SQUARE FOOTAGE OF EACH LEVEL IN THE SUM OF FINISHED AREAS ON THAT LEVEL MEASURED AT FLOOR LEVEL TO THE EXTERIOR FINISHED SURFACE OF THE OUTSIDE WALLS. ANSI Z765-2003, ARTICLE 3.

TOTAL AREA: 770 SQ. FT.



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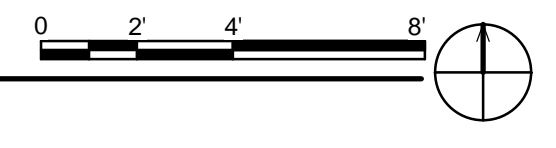
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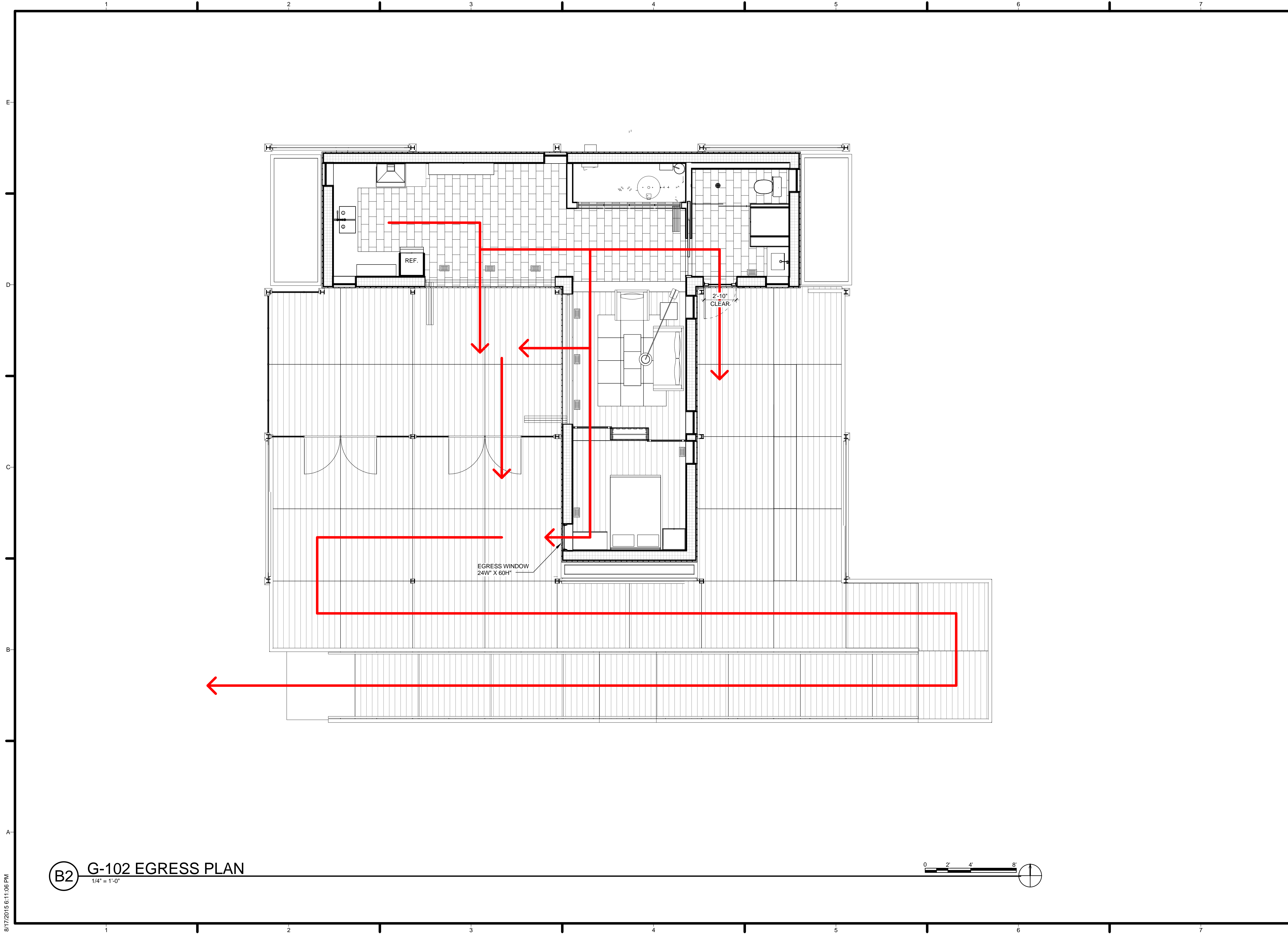
SHEET TITLE
FINISHED SQUARE FOOTAGE COMPLIANCE PLAN

G-101

B3 G-101 FINISHED SQUARE FOOTAGE
 1/4" = 1'-0"



8/17/2015 6:10:51 PM



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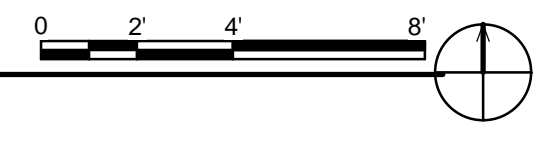
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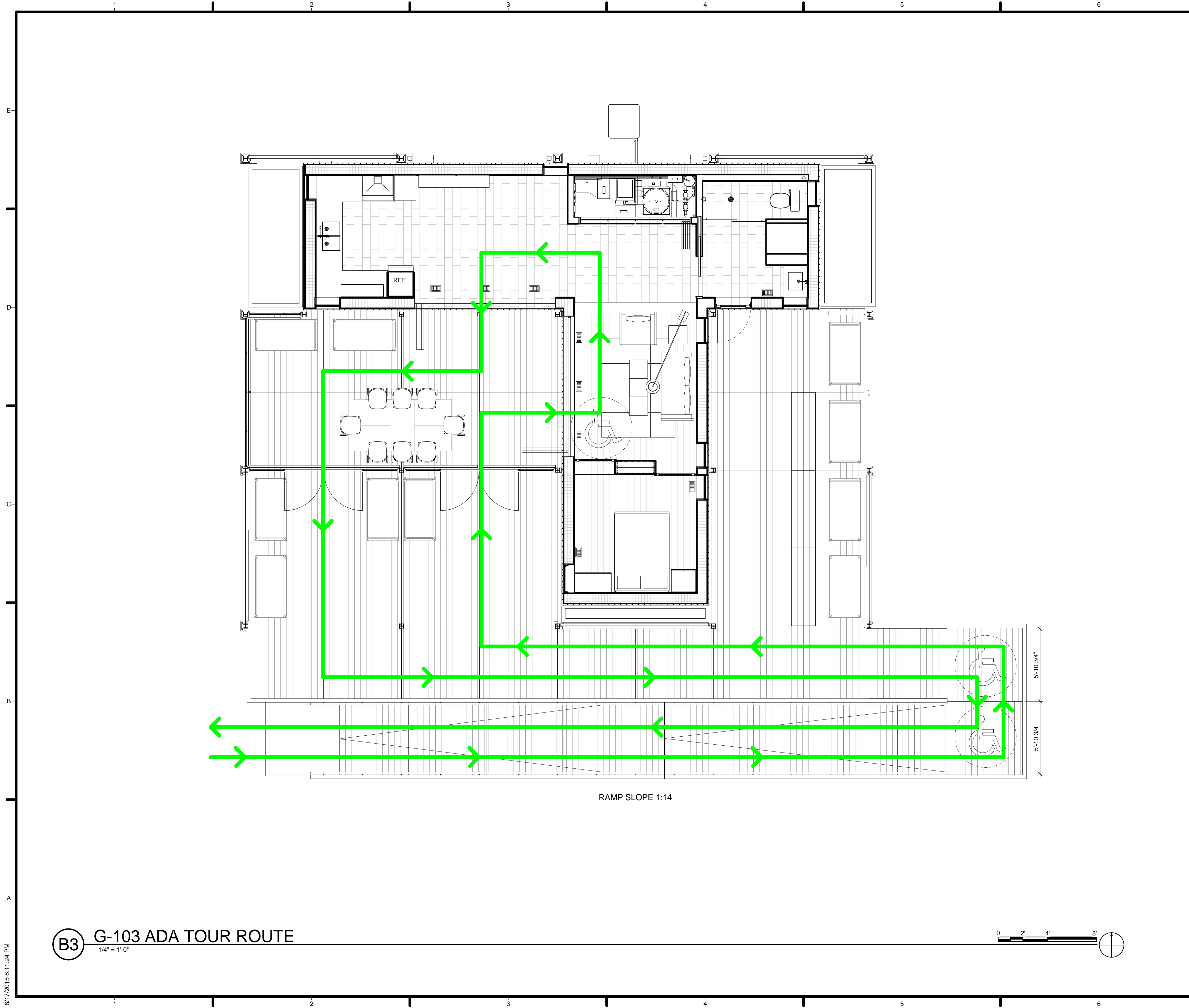
EGRESS PLAN

G-102

B2 G-102 EGRESS PLAN
 1/4" = 1'-0"



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GENERAL SHEET NOTES

1 ALL THRESHOLDS ARE BELOW 1/4". SEE A-541.

REFERENCE KEYNOTES

SHEET KEYNOTES



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SHEET TITLE
ADA TOUR ROUTE COMPLIANCE PLAN

G-103

B3 G-103 ADA TOUR ROUTE
 1/4" = 1'-0"

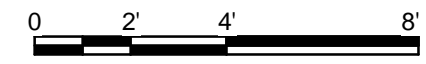


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C1 G-201 SOLAR ENVELOPE COMPLIANCE EAST
1/4" = 1'-0"

A1 G-201 SOLAR ENVELOPE COMPLIANCE WEST
1/4" = 1'-0"



GENERAL SHEET NOTES

1 18'-0" SOLAR ENVELOPE IS TAKEN FROM HIGH POINT OF SITE.

REFERENCE KEYNOTES

SHEET KEYNOTES

1 H.P. = HIGH POINT



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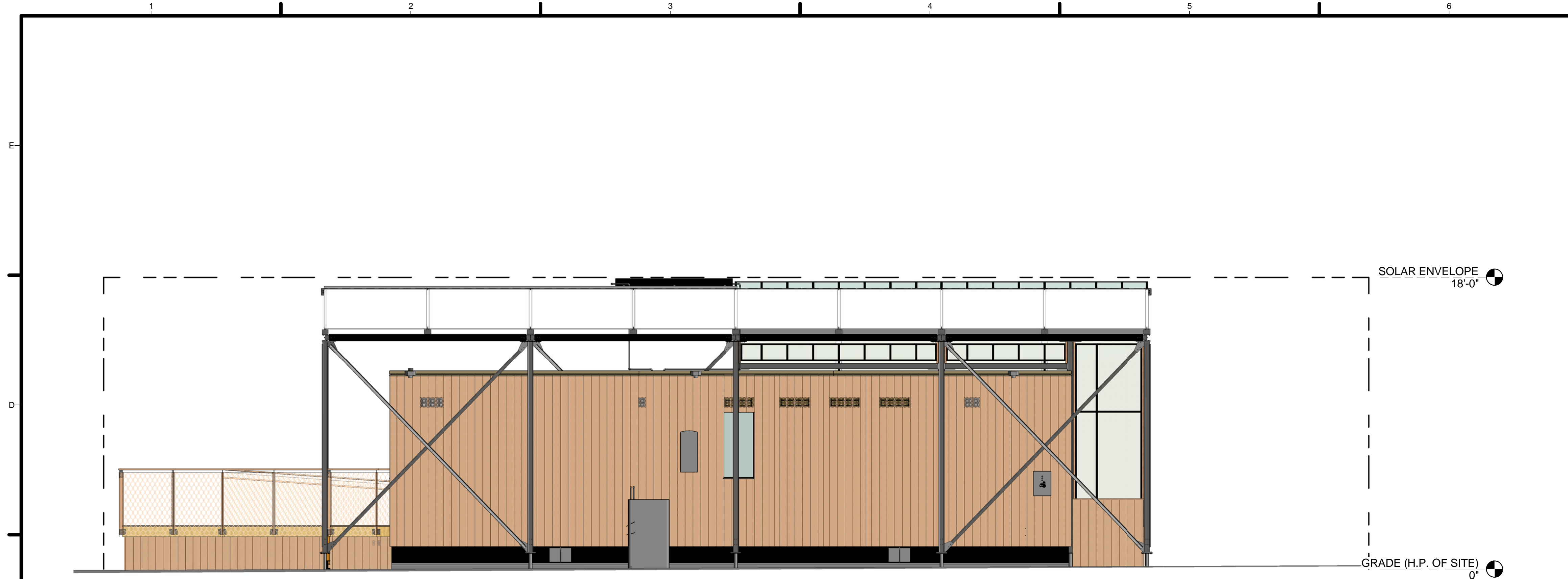
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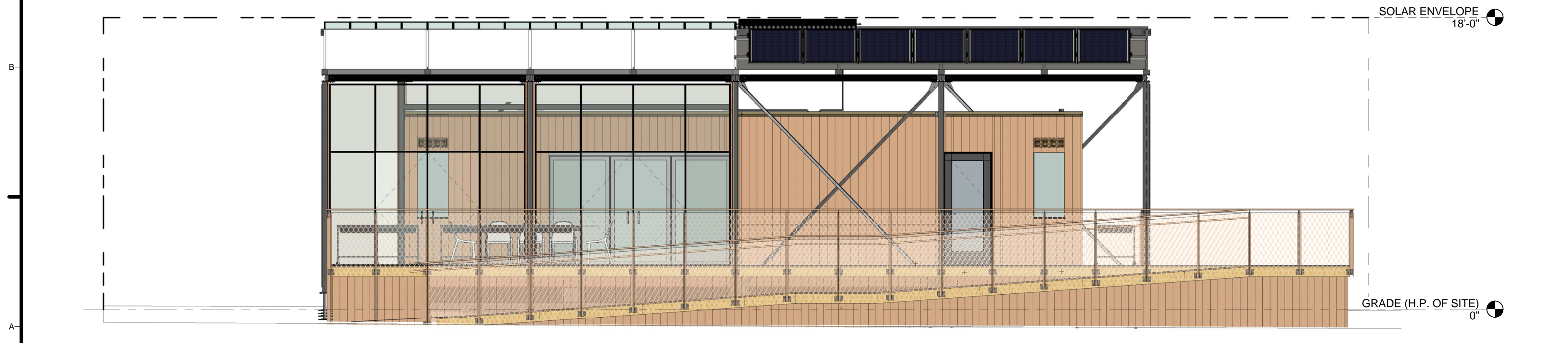
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**SOLAR ENVELOPE
 COMPLIANCE
 ELEVATIONS**

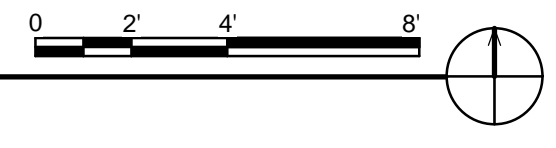
G-201



C1 G-202 SOLAR ENVELOPE COMPLIANCE NORTH
1/4" = 1'-0"



A1 G-202 SOLAR ENVELOPE COMPLIANCE SOUTH
1/4" = 1'-0"



GENERAL SHEET NOTES

1 18' - 0" SOLAR ENVELOPE IS TAKEN FROM HIGH POINT OF SITE.

REFERENCE KEYNOTES

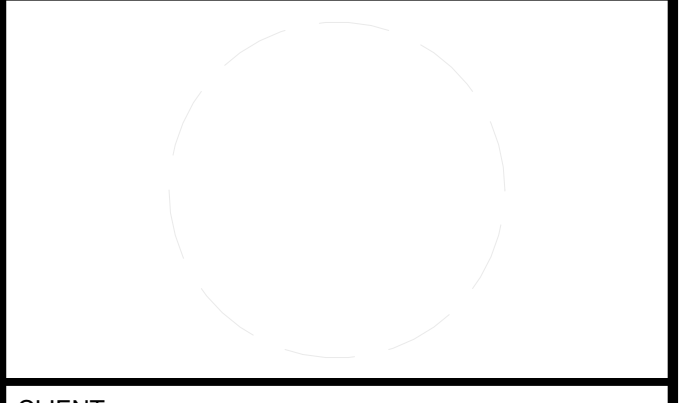
SHEET KEYNOTES

1 H.P. = HIGH POINT



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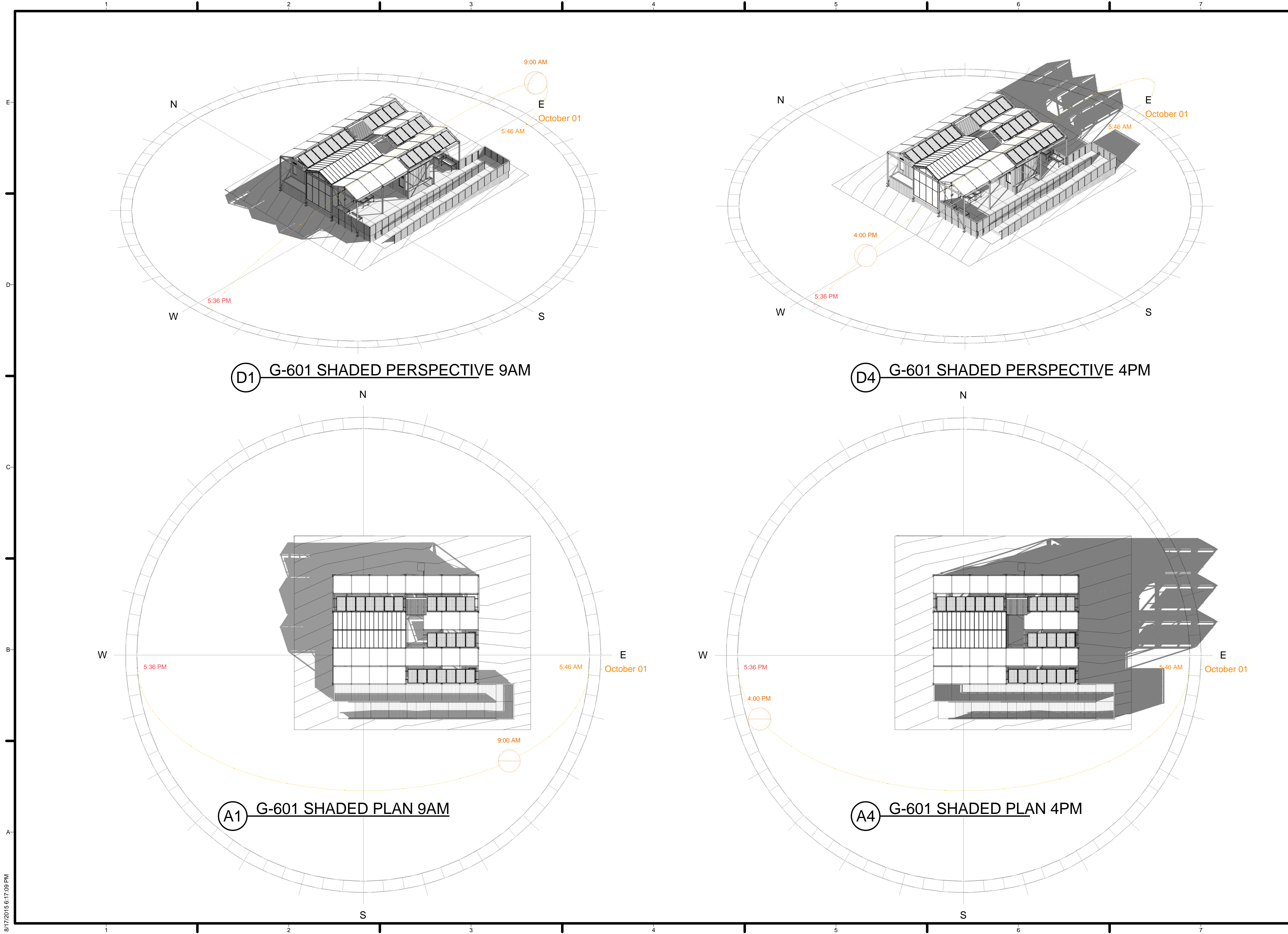
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SOLAR ENVELOPE COMPLIANCE ELEVATIONS

G-202

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D1 G-601 SHADED PERSPECTIVE 9AM

D4 G-601 SHADED PERSPECTIVE 4PM

A1 G-601 SHADED PLAN 9AM

A4 G-601 SHADED PLAN 4PM



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SHADING DIAGRAMS

G-601



- ① H. TOMATOES
 H1. BLACK CHERRY
 H2. AMISH PASTE
 H3. GLOBE
 H4. YELLOW PEAR
 H5. SAN MARZANO
 H6. GRAPE

K	H5	H5	H6	H6	K
K	H3	H3	H4	H4	K
K	H1	H1	H2	H2	K
- ② B. KALE
 C. CABBAGE
 L. LETTUCE

C	C	C	C	C
L	L	L	L	L
B	B	B	B	B
- ③ R. ROSEMARY
 A. LAVANDER
 T. THYME
 S2. LEAF PARSLEY

T	T	T	T	T
S2	A	A	A	T
S2	S2	R	R	T
- ④ P. RED PEPPERS
 J. JALAPENOS
 N. HABANERO
 PEPPERS

J	J	J	J	J
N	N	N	N	N
P	P	P	P	P
- ⑤ I. CILANTRO
 S. PARSLEY
 S1. ITALIAN
 S2. LEAF
 Q. BASIL
 G. CHIVES

S1	S1	S1	S1	S2	S2	S2
Q	Q	Q	Q	Q	Q	Q
G	G	G	G	I	I	I
- ⑥ O. ONIONS
 O1. RED
 O2. YELLOW
 O3. GREEN
 U. SHALLOT
 V. GARLIC

O3	O2	O1	O2	O3	
U	U	U	V	V	V
O1	O2	O3	O2	O1	
- ⑦ X. BLUEBERRY
 Y. RASPBERRY

X	X	X	X
Y	Y	Y	Y
X	X	X	X
- ⑧ W. YELLOW SQUASH
 M. CUCUMBERS
 Z. ZUCCHINI
 K. NASTURTIUMS

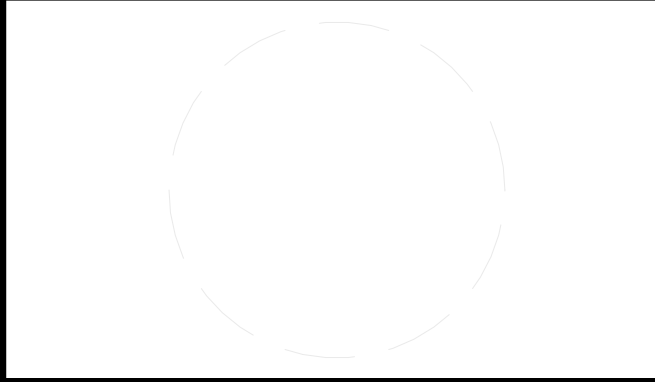
K	Z	Z	Z	K
K	M	M	M	K
K	W	W	W	K
- ⑨ D. BROCCOLI
 E. BEETS
 F. CAULIFLOWER

E	E	E	E
F	F	F	F
D	D	D	D
- ⑩ UNUSED
- ⑪ ORNAMENTALS



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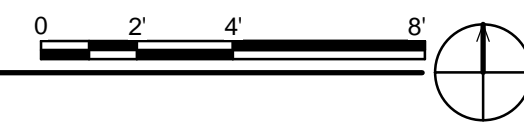
CONSTRUCTION DOCUMENTS
 SHEET TITLE

LANDSCAPE AND PLANTING SITE PLAN

L-101

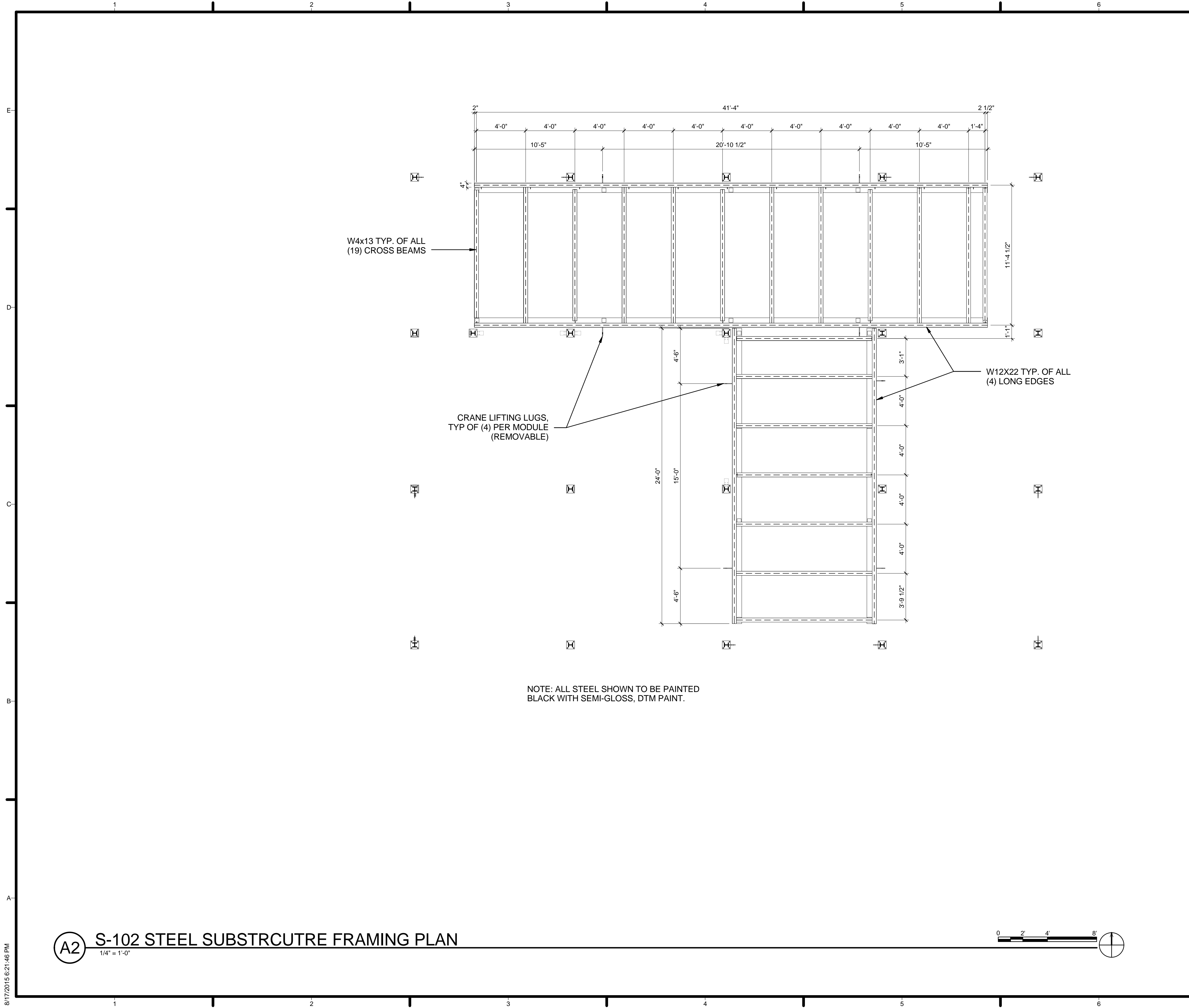
A1 L-101 LANDSCAPE AND PLANTING SITE PLAN

1/4" = 1'-0"



FOOD VEGETATION IS DESIGNED TO BE MOVED BY THE USER OF THE HOME AS PART OF INTEGRATED GROW TABLE PLANTER SYSTEM.

8/17/2015 6:18:56 PM



GENERAL SHEET NOTES

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

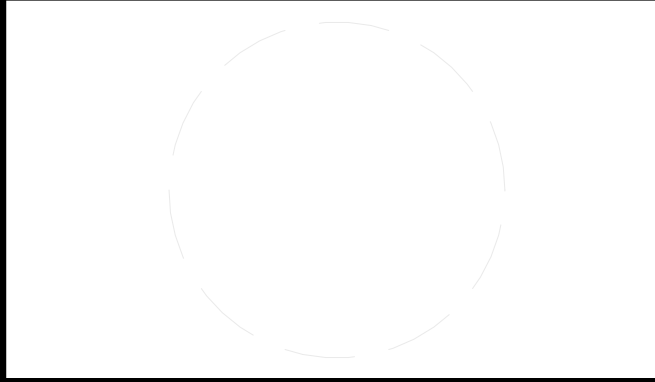
REFERENCE KEYNOTES

SHEET KEYNOTES



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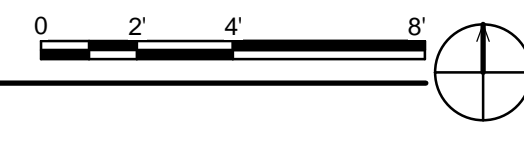
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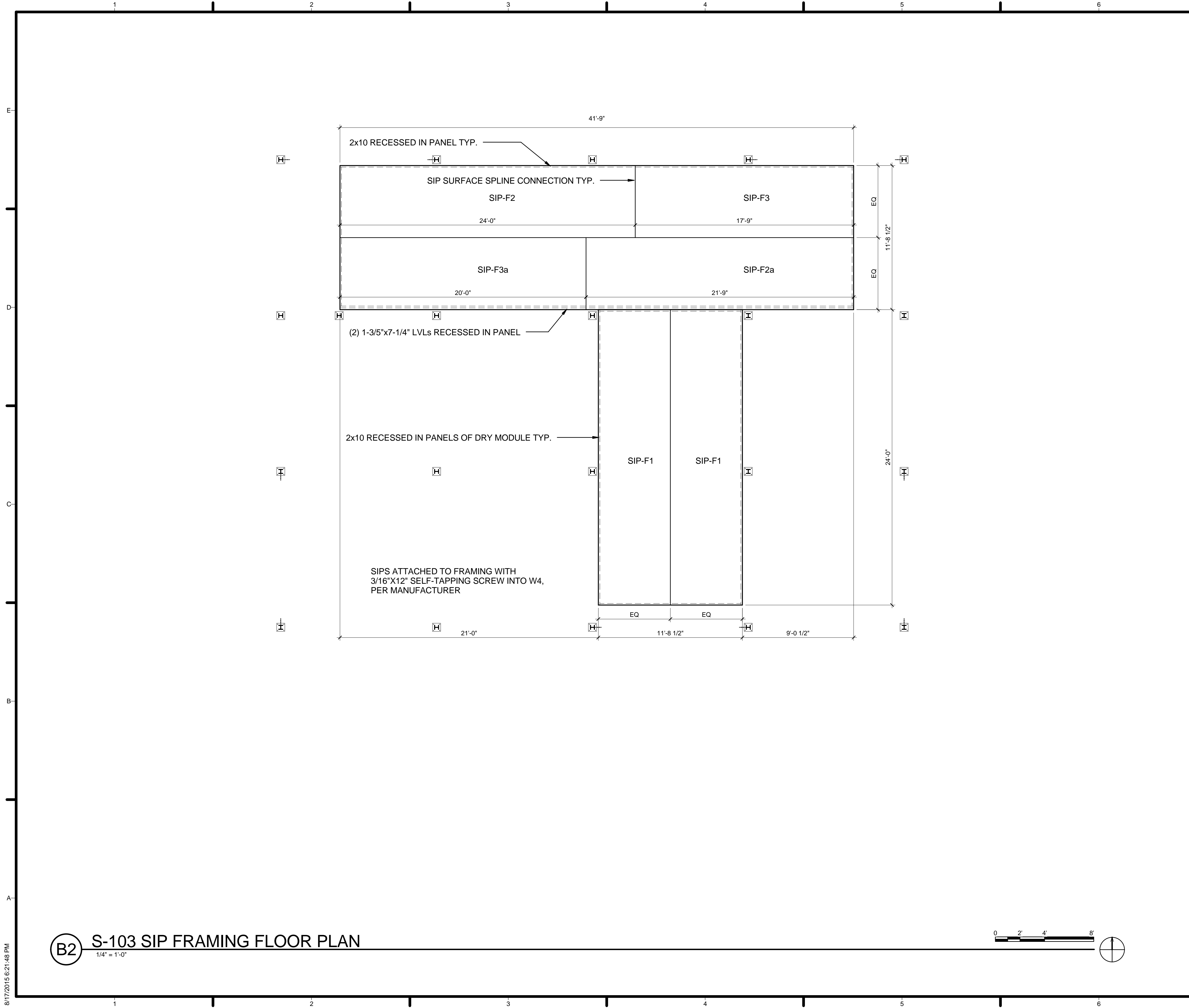
SHEET TITLE
STEEL SUBSTRUCTURE FRAMING PLAN

S-102

(A2) S-102 STEEL SUBSTRUCTURE FRAMING PLAN
 1/4" = 1'-0"



8/17/2015 6:21:46 PM



GENERAL SHEET NOTES

1. ALL FLOOR PANELS SHALL BE 8-1/4" R-40 R-CONTROL EPS SIPS.
2. WET MODULE SIPS SHALL CONTAIN (2) 9-1/4" x LVLs RECESSED IN PANELS.
3. FLOOR SIPS TO BE CONSTRUCTED TO R-CONTROL SPECIFICATIONS.

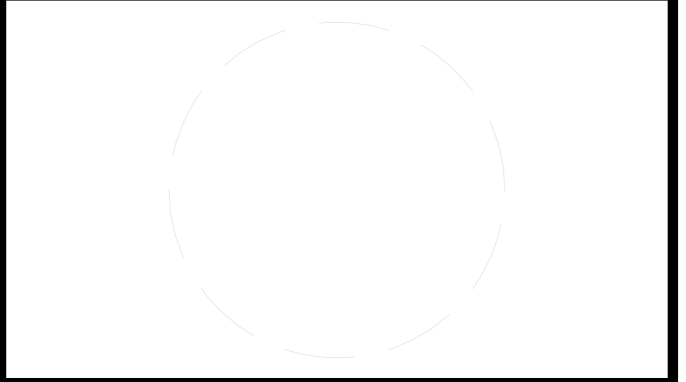
REFERENCE KEYNOTES

SHEET KEYNOTES



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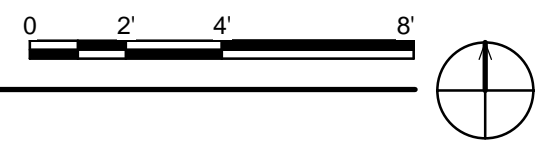
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CONSTRUCTION DOCUMENTS
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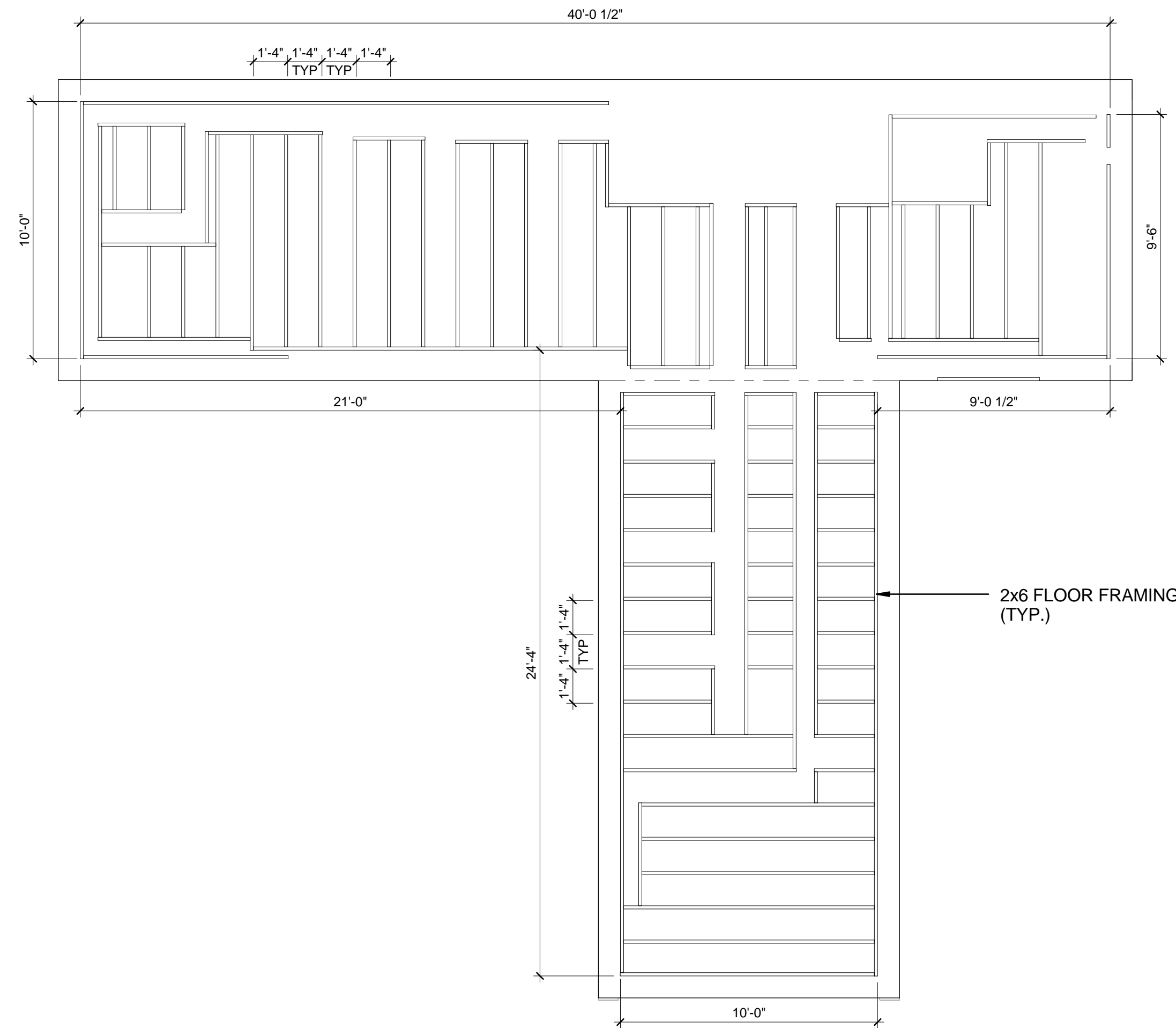
SIP FLOOR FRAMING PLAN

S-103

B2 S-103 SIP FRAMING FLOOR PLAN
 1/4" = 1'-0"



8/17/2015 6:21:48 PM



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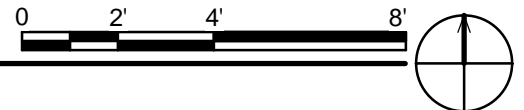
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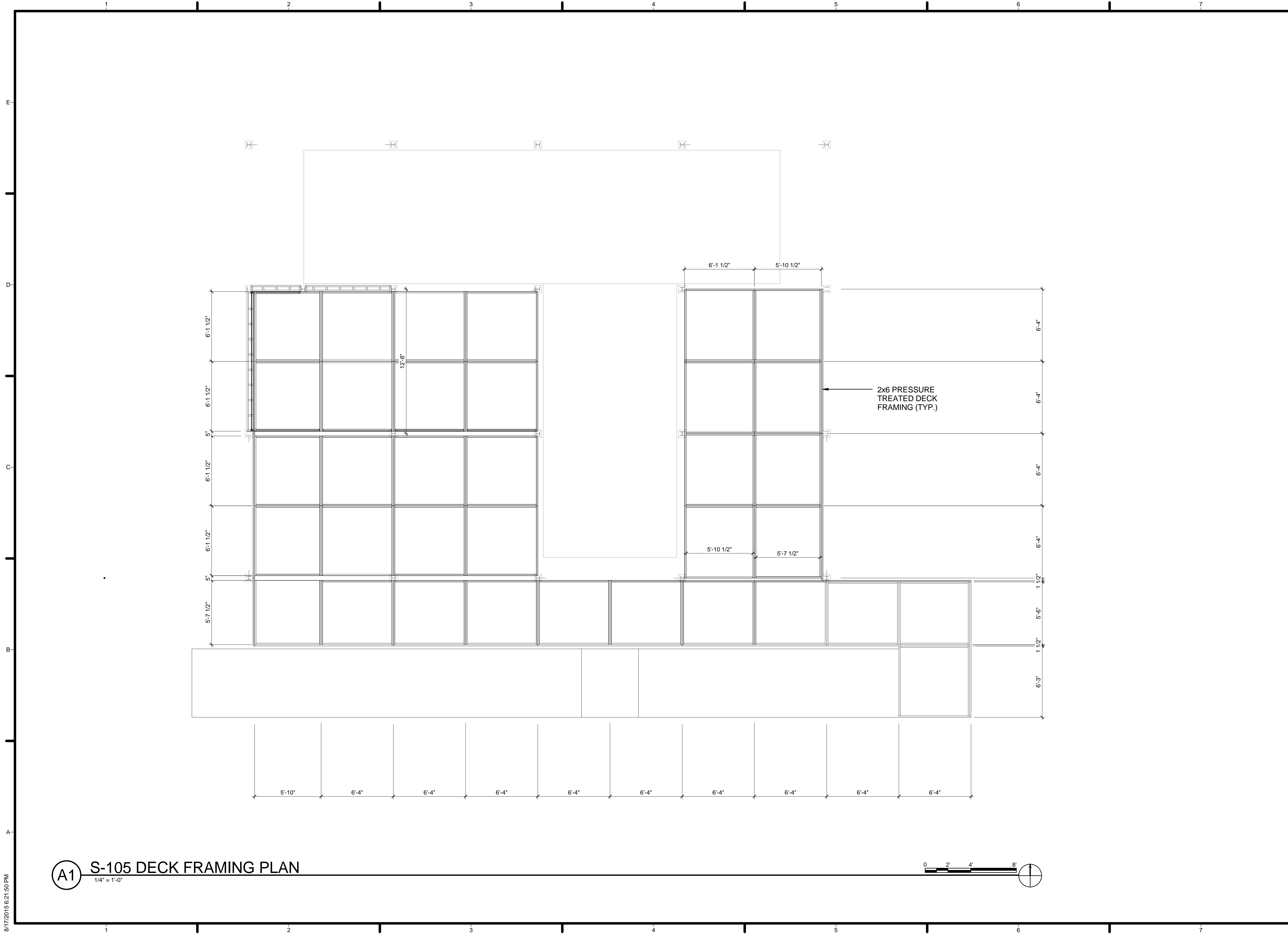
SHEET TITLE
**INTERIOR FLOOR
 FRAMING PLAN**

S-104

B2 S-104 FIRST FLOOR FRAMING
 1/4" = 1'-0"



8/17/2015 6:21:49 PM



A1 S-105 DECK FRAMING PLAN
1/4" = 1'-0"

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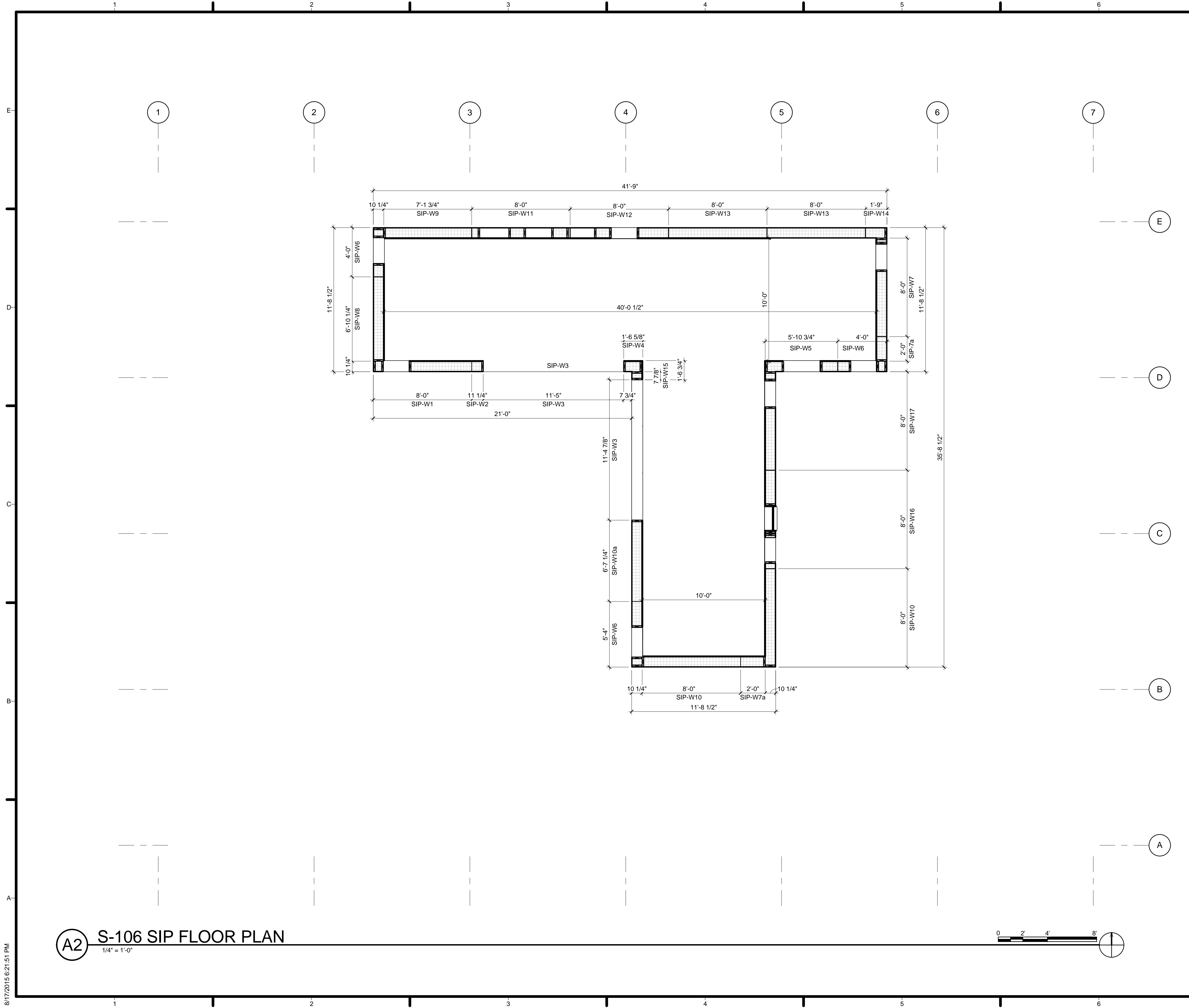
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CONSTRUCTION DOCUMENTS

SHEET TITLE

DECK FRAMING PLAN

S-105



(A2) S-106 SIP FLOOR PLAN
1/4" = 1'-0"

GENERAL SHEET NOTES

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

REFERENCE KEYNOTES

SHEET KEYNOTES



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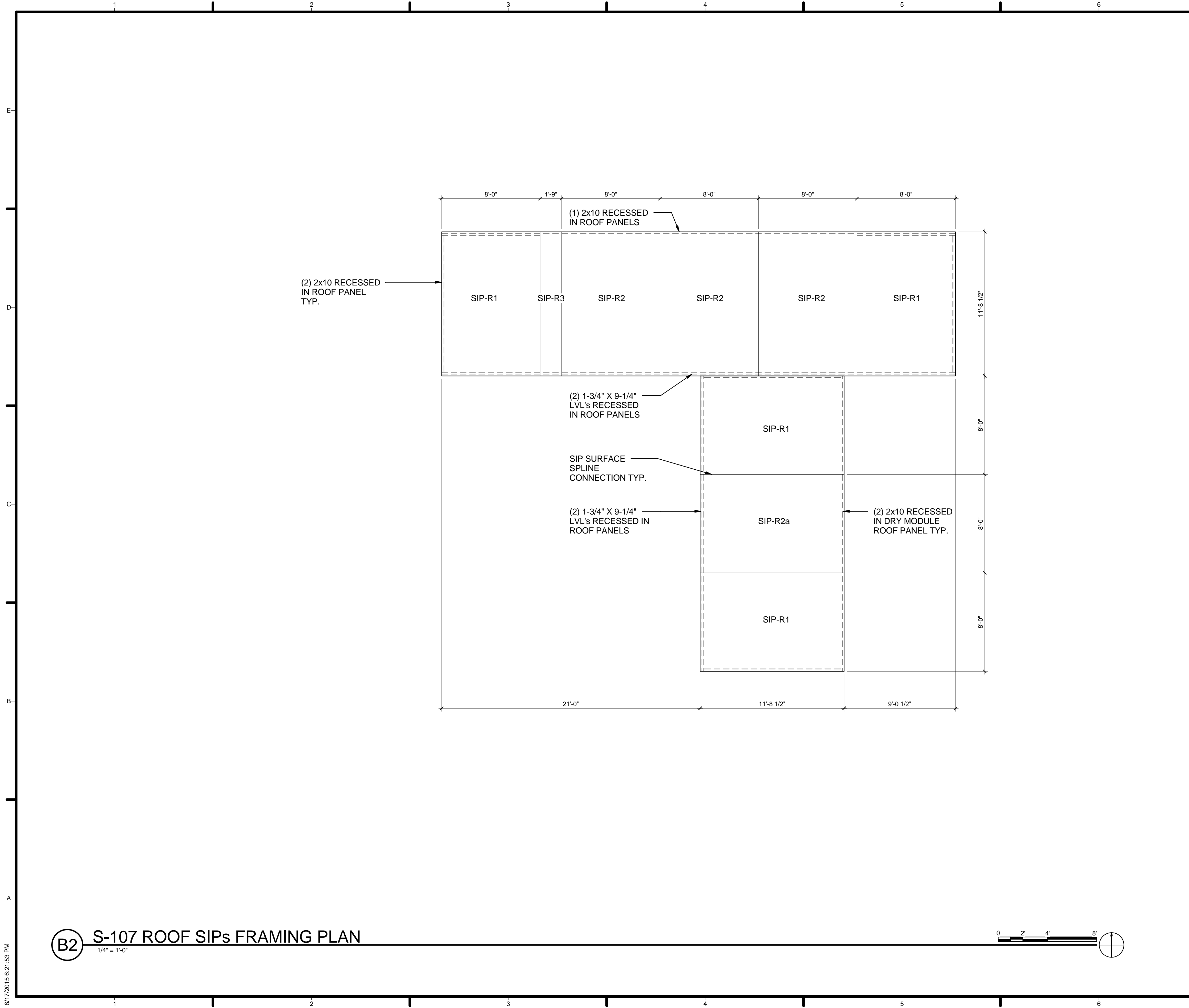
MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

SHEET TITLE
SIP PLAN

S-106

8/17/2015 6:21:51 PM



GENERAL SHEET NOTES

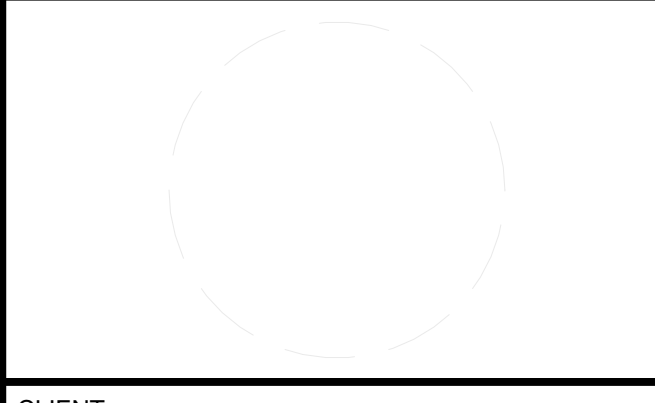
- ALL ROOF PANELS SHALL BE 10-1/4" R-40 R-CONTROL EPS SIPs.
- ROOF SIPs SHALL CONTAIN (2) 10-1/4" x LVL RECESSED IN PANEL'S LONG AXIS.
- ROOF SIPs TO BE CONSTRUCTED TO R-CONTROL SPECIFICATIONS.



REFERENCE KEYNOTES

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SHEET KEYNOTES



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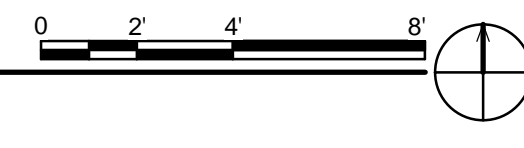
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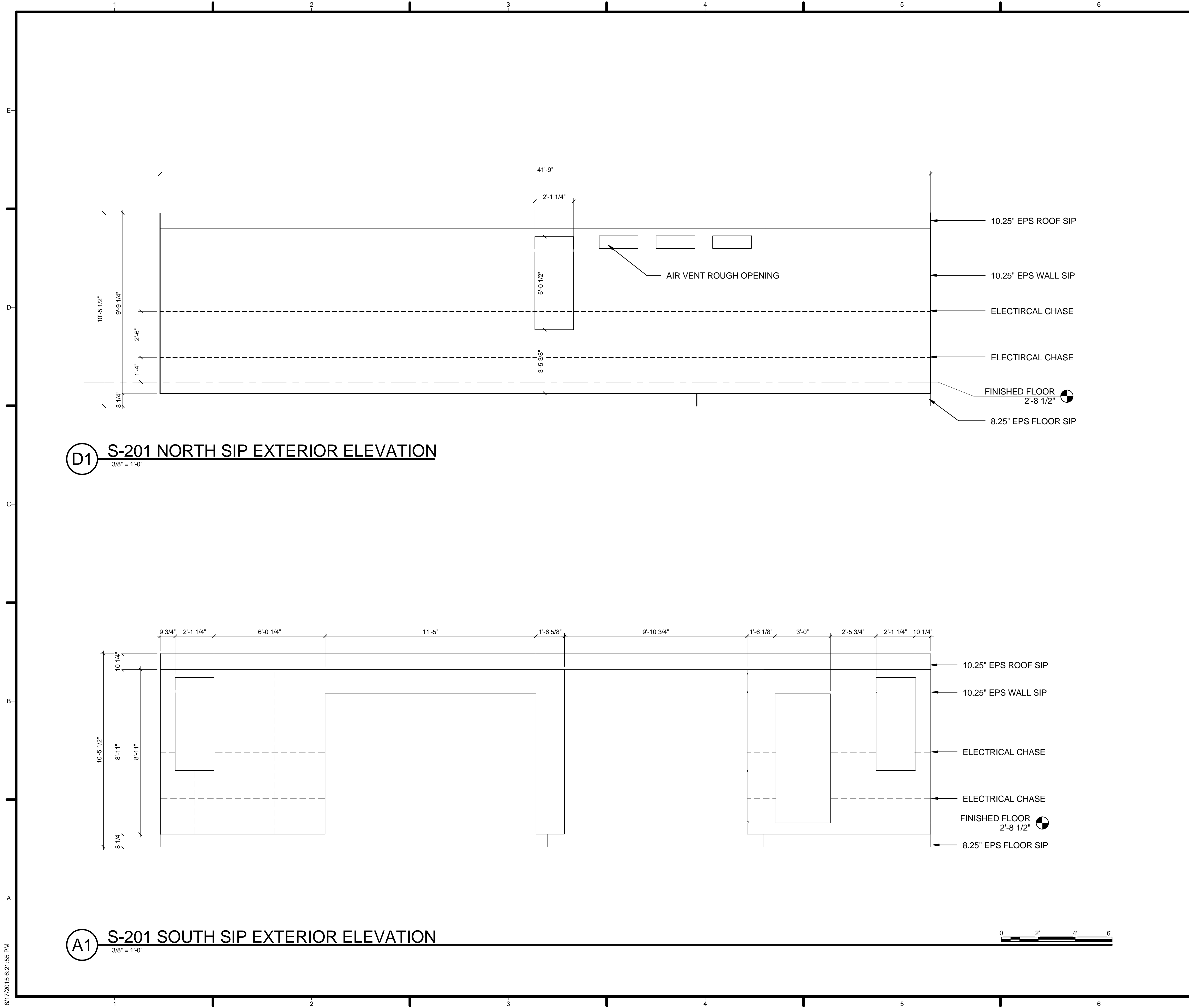
CONSTRUCTION DOCUMENTS
 SHEET TITLE

SIP ROOF FRAMING PLAN

S-107

B2 S-107 ROOF SIPs FRAMING PLAN
 1/4" = 1'-0"





GENERAL SHEET NOTES

- 1. SIP PANELIZATION PER MFGR. LAYOUT

REFERENCE KEYNOTES

SHEET KEYNOTES



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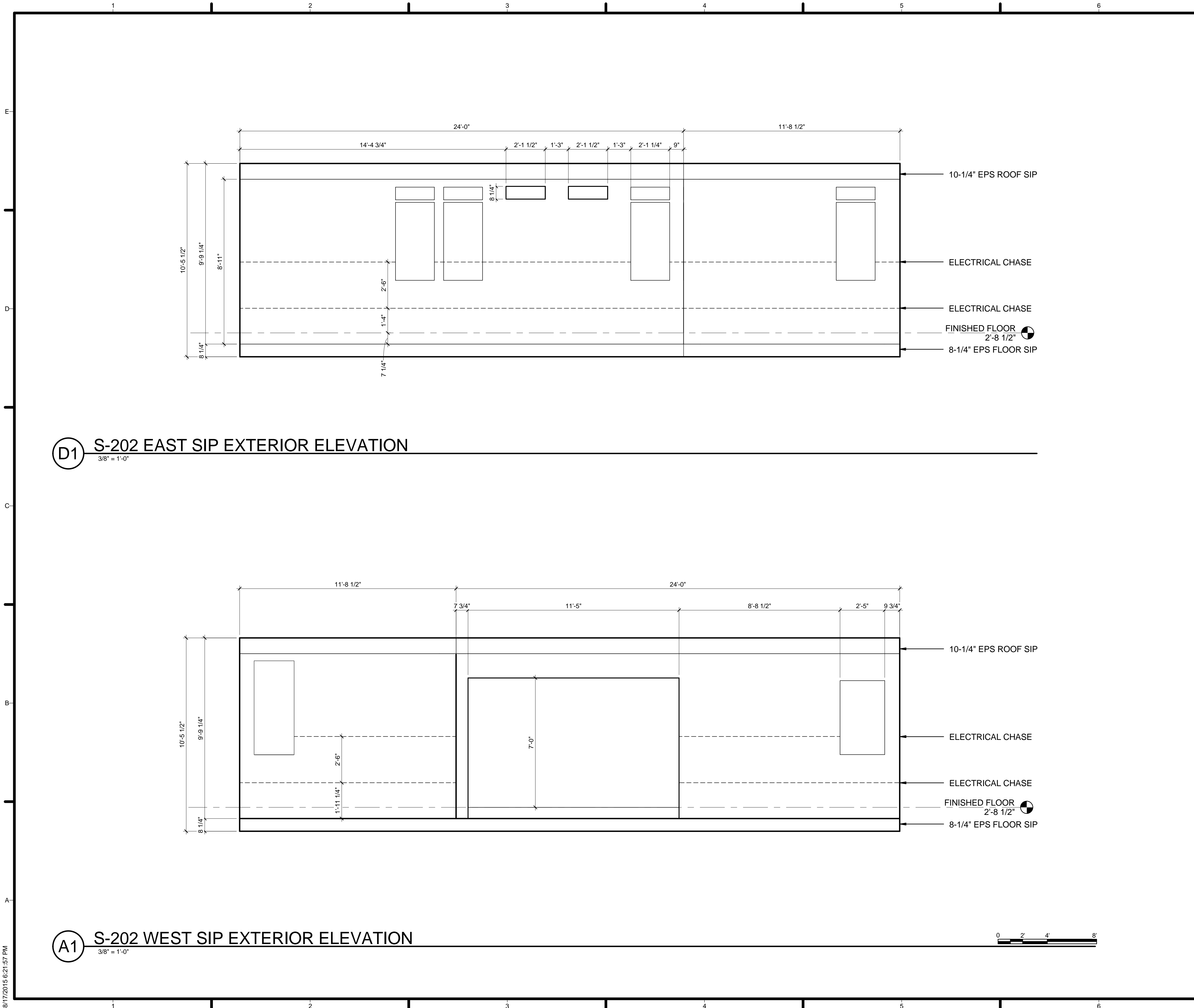
CONSTRUCTION DOCUMENTS

SHEET TITLE

SIP ELEVATIONS

S-201

8/17/2015 6:21:55 PM



(D1) S-202 EAST SIP EXTERIOR ELEVATION
3/8" = 1'-0"

(A1) S-202 WEST SIP EXTERIOR ELEVATION
3/8" = 1'-0"

GENERAL SHEET NOTES

1. SIP PANELIZATION PER MFR. LAYOUT

REFERENCE KEYNOTES

SHEET KEYNOTES



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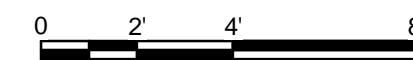
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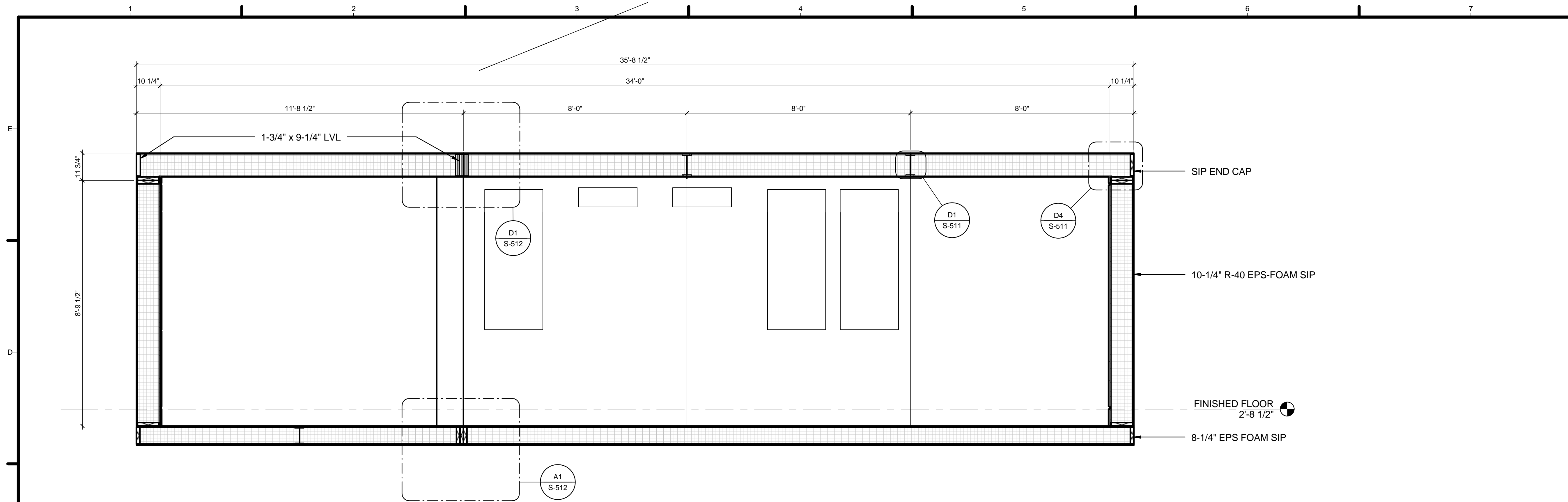
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SIP ELEVATIONS

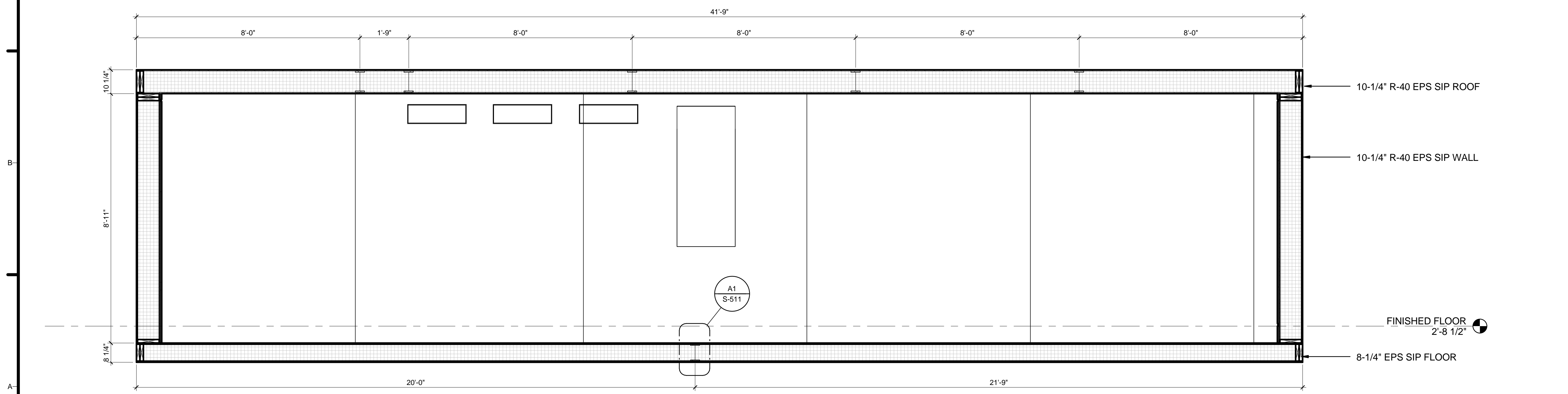
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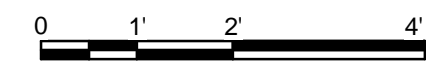




D1 S-301 DRY MODULE SIP FRAMING SECTION
1/2" = 1'-0"



A1 S-301 WET MODULE SIP FRAMING SECTION
1/2" = 1'-0"



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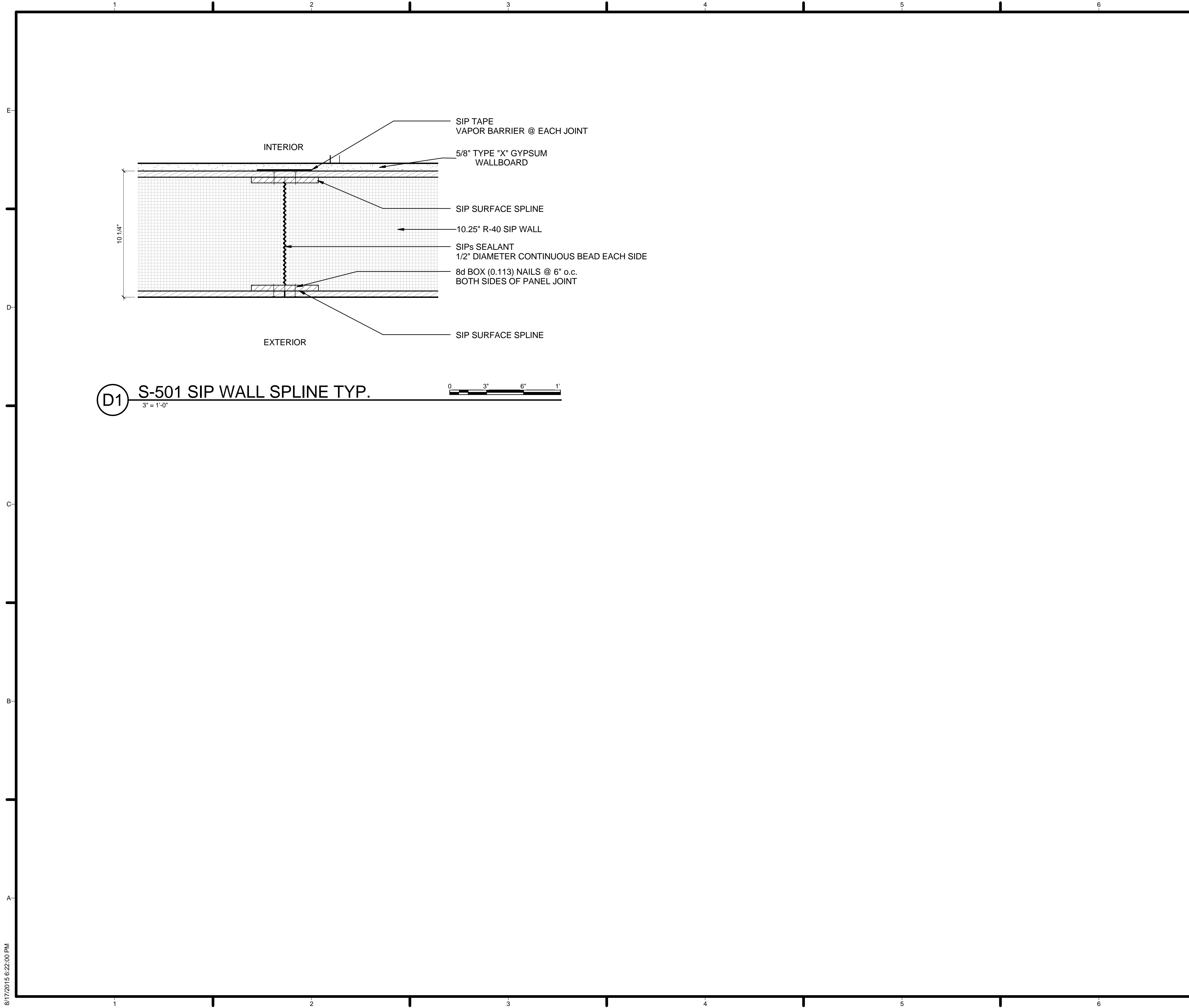
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CONSTRUCTION DOCUMENTS

SHEET TITLE

SIP SECTIONS

S-301



D1 S-501 SIP WALL SPLINE TYP.
3" = 1'-0"

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GENERAL SHEET NOTES

1. SEE SPECS. 06 12 00 FOR SIP SPECIFICATIONS

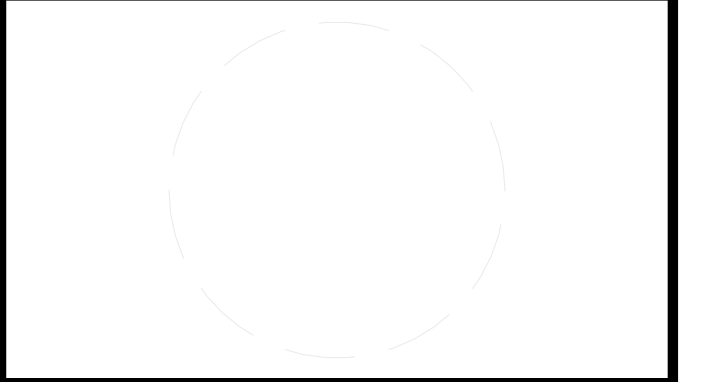
REFERENCE KEYNOTES

06 12 00.A4	10.25" R-40 SIP WALL
09 29 00.D11	5/8" TYPE "X" GYPSUM WALLBOARD

SHEET KEYNOTES

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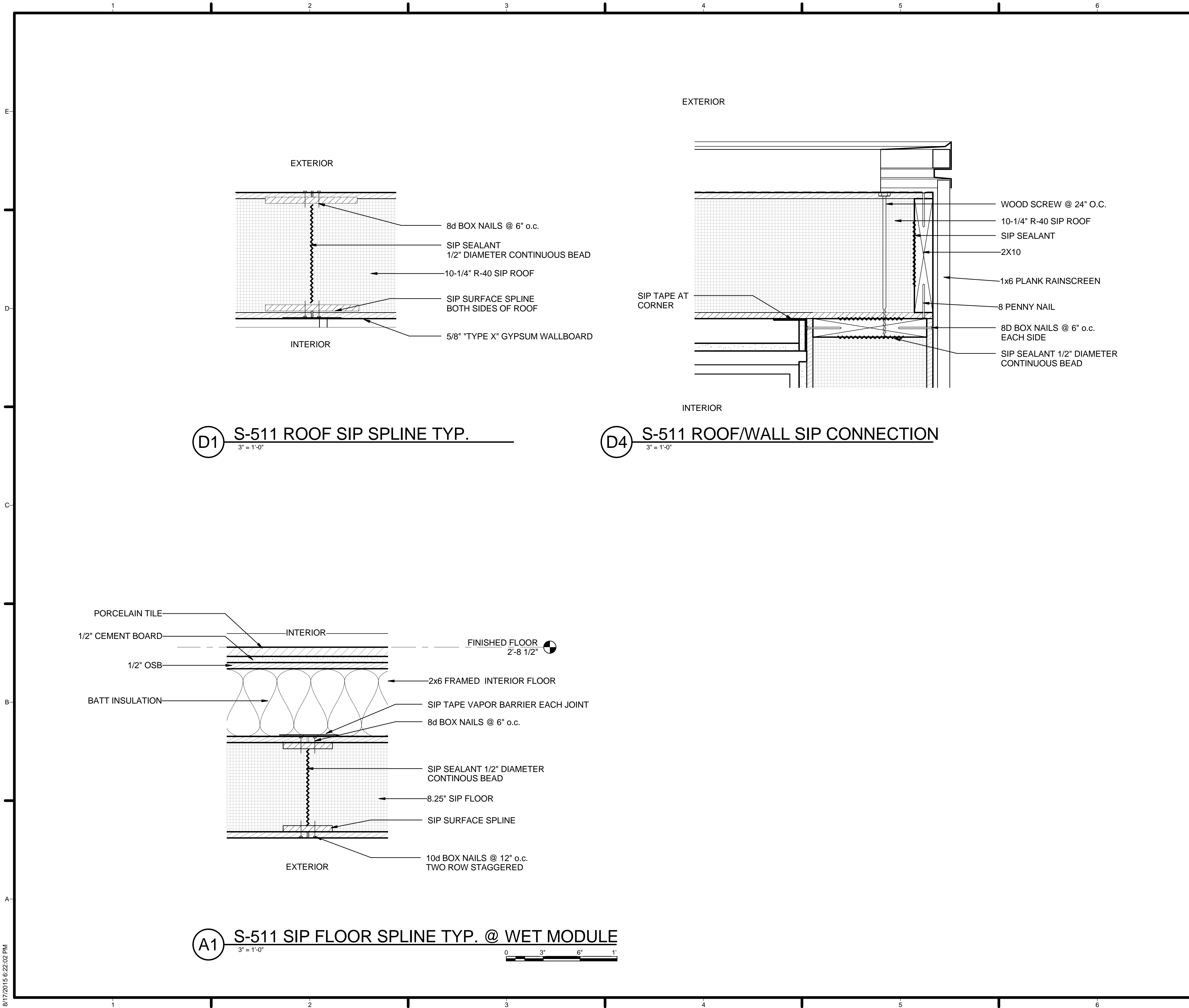
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CONSTRUCTION DOCUMENTS

SHEET TITLE
SIP PLAN DETAILS

S-501



GENERAL SHEET NOTES

- 1. SIP SPLINE TO MFR. DETAIL



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REFERENCE KEYNOTES

- 06 05 23.A7 8 PENNY NAIL
- 06 10 00.A3 2x6 FRAMED INTERIOR FLOOR
- 06 10 00.A5 1/2" OSB
- 06 11 00.H1 2X10
- 06 12 00.A2 8.25" SIP FLOOR
- 06 12 00.A3 10-1/4" R-40 SIP ROOF
- 06 20 13.A1 1x6 PLANK RAINSCREEN
- 07 21 16.A10 BATT INSULATION
- 09 28 13.A2 1/2" CEMENT BOARD
- 09 30 13.A2 PORCELAIN TILE

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SHEET KEYNOTES

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SHEET TITLE

SIP SECTION DETAILS

S-511



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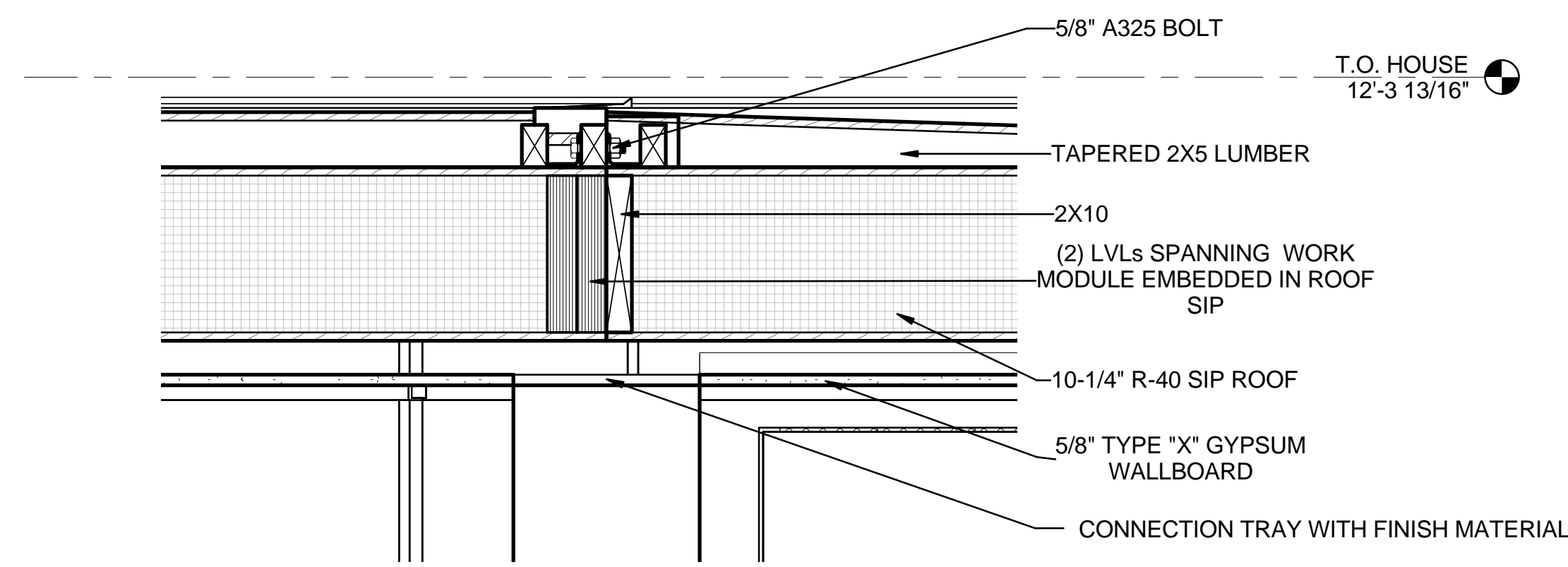
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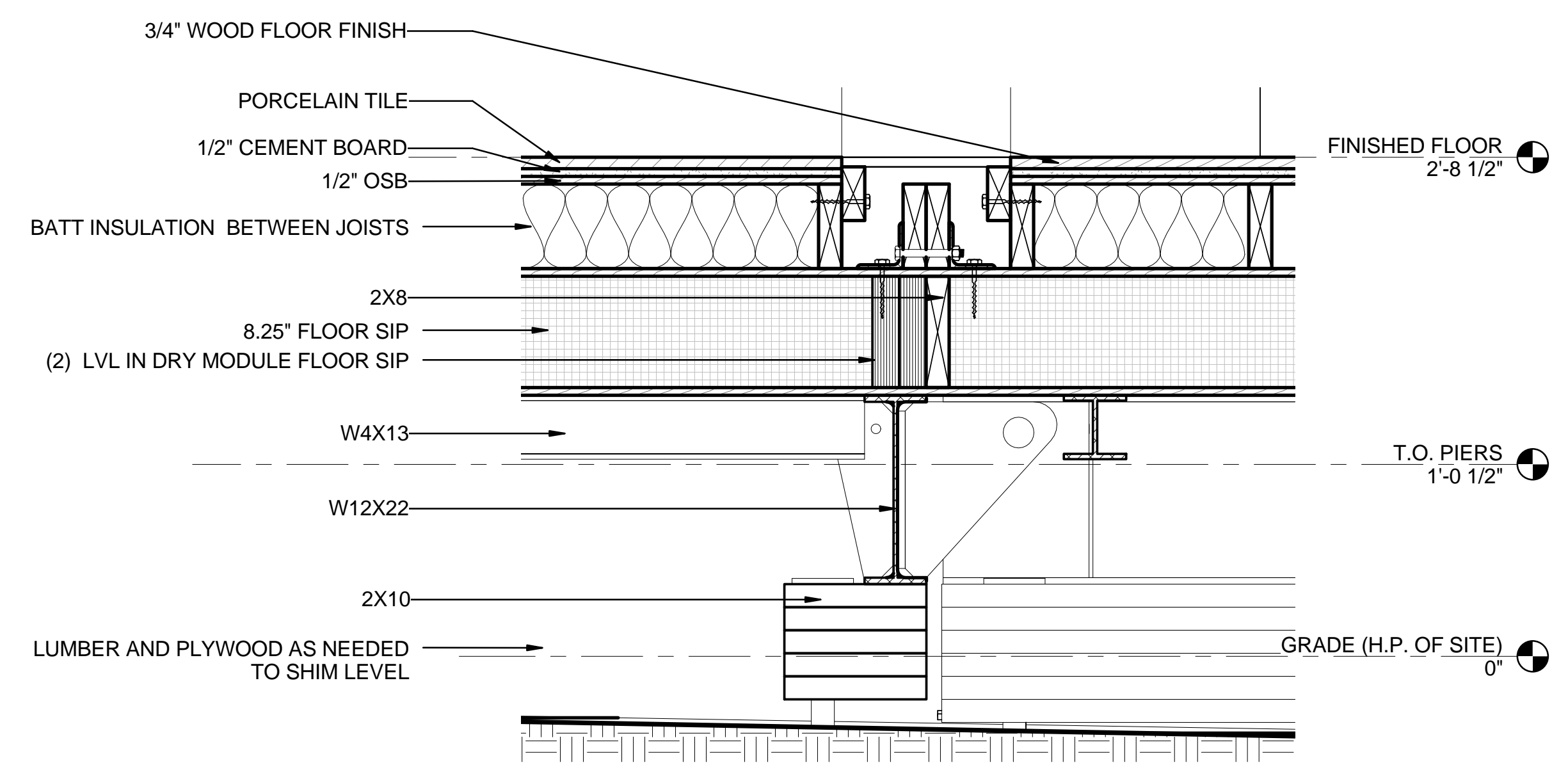
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SIP MODULE
 CONNECTION DETAILS

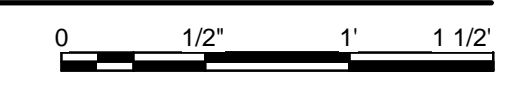
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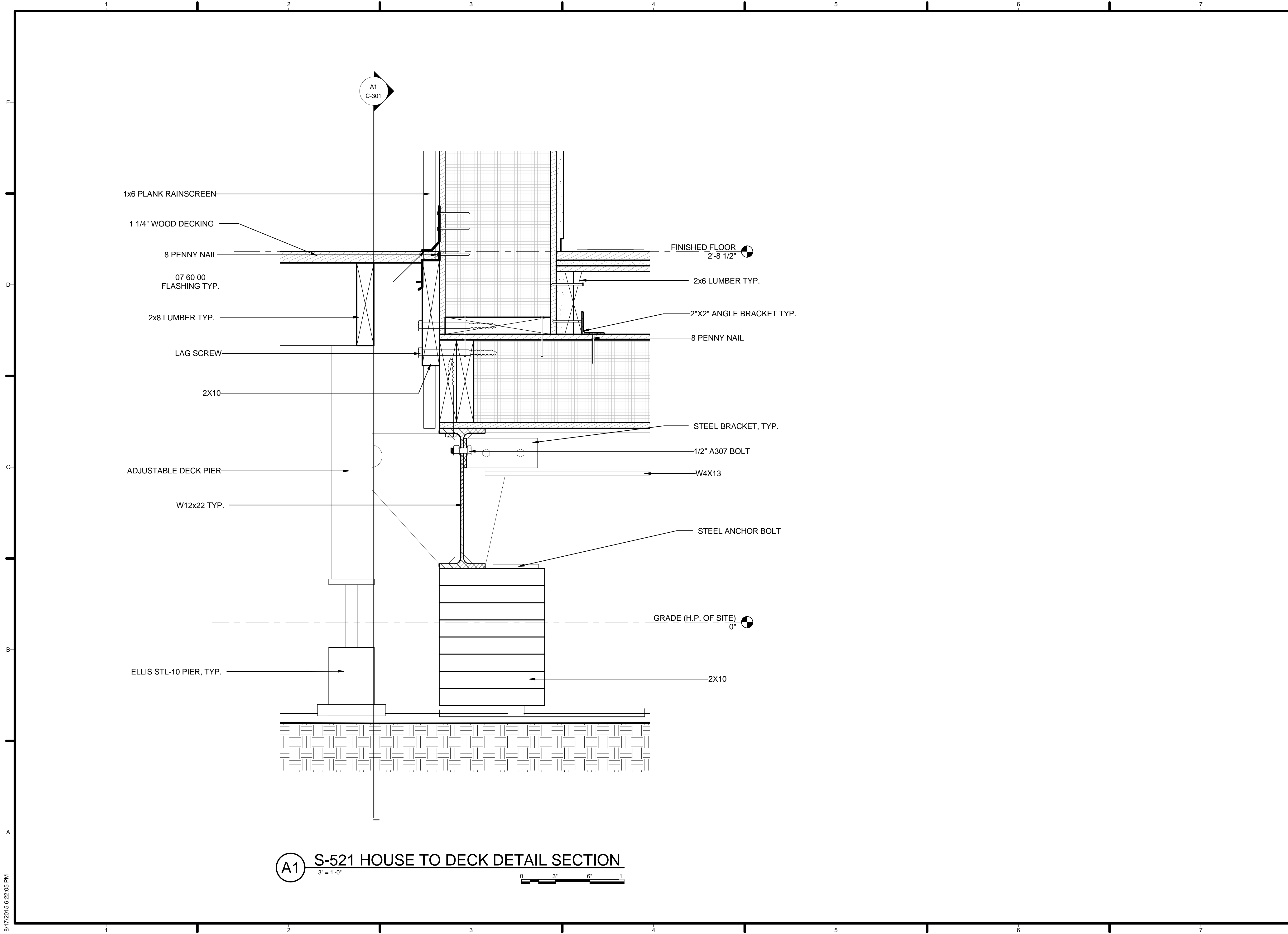


(D1) S-512 DRY MODULE SIP ROOF SECTION
 1 1/2" = 1'-0"



(A1) S-512 DRY MODULE SIP SECTION
 1 1/2" = 1'-0"



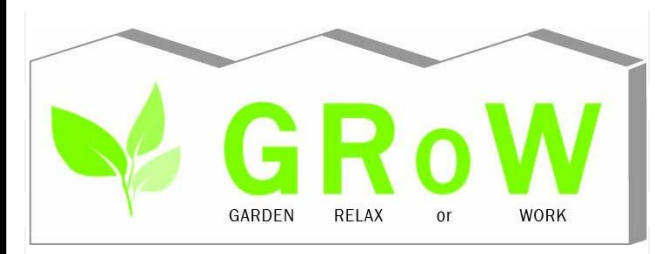


- 1x6 PLANK RAINSCREEN
- 1 1/4" WOOD DECKING
- 8 PENNY NAIL
- 07 60 00 FLASHING TYP.
- 2x8 LUMBER TYP.
- LAG SCREW
- 2X10
- ADJUSTABLE DECK PIER
- W12x22 TYP.
- ELLIS STL-10 PIER, TYP.
- FINISHED FLOOR 2'-8 1/2"
- 2x6 LUMBER TYP.
- 2"X2" ANGLE BRACKET TYP.
- 8 PENNY NAIL
- STEEL BRACKET, TYP.
- 1/2" A307 BOLT
- W4X13
- STEEL ANCHOR BOLT
- GRADE (H.P. OF SITE) 0'
- 2X10

A1 S-521 HOUSE TO DECK DETAIL SECTION
 3" = 1'-0"



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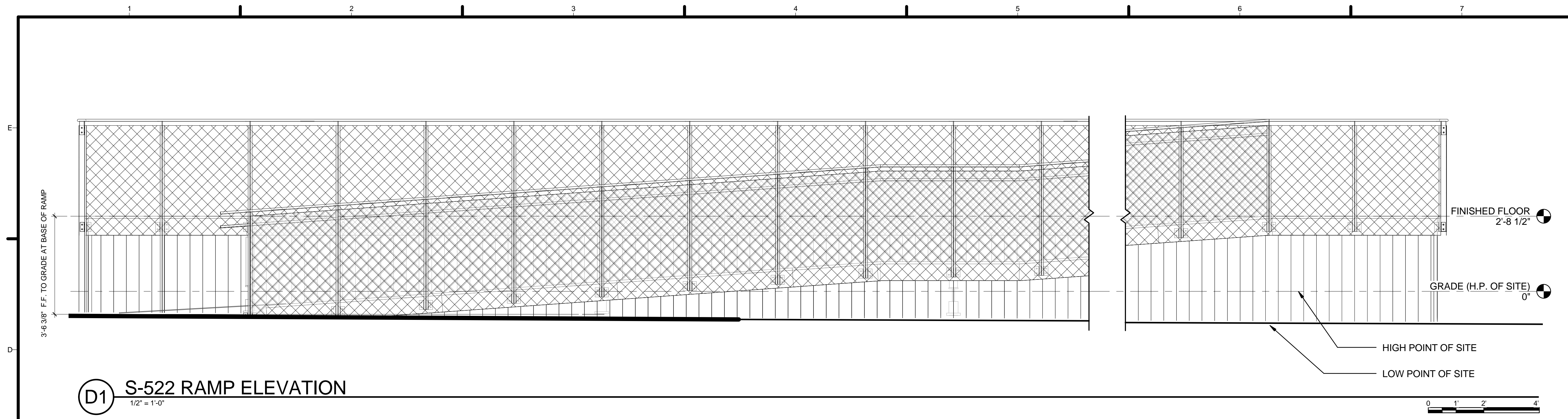
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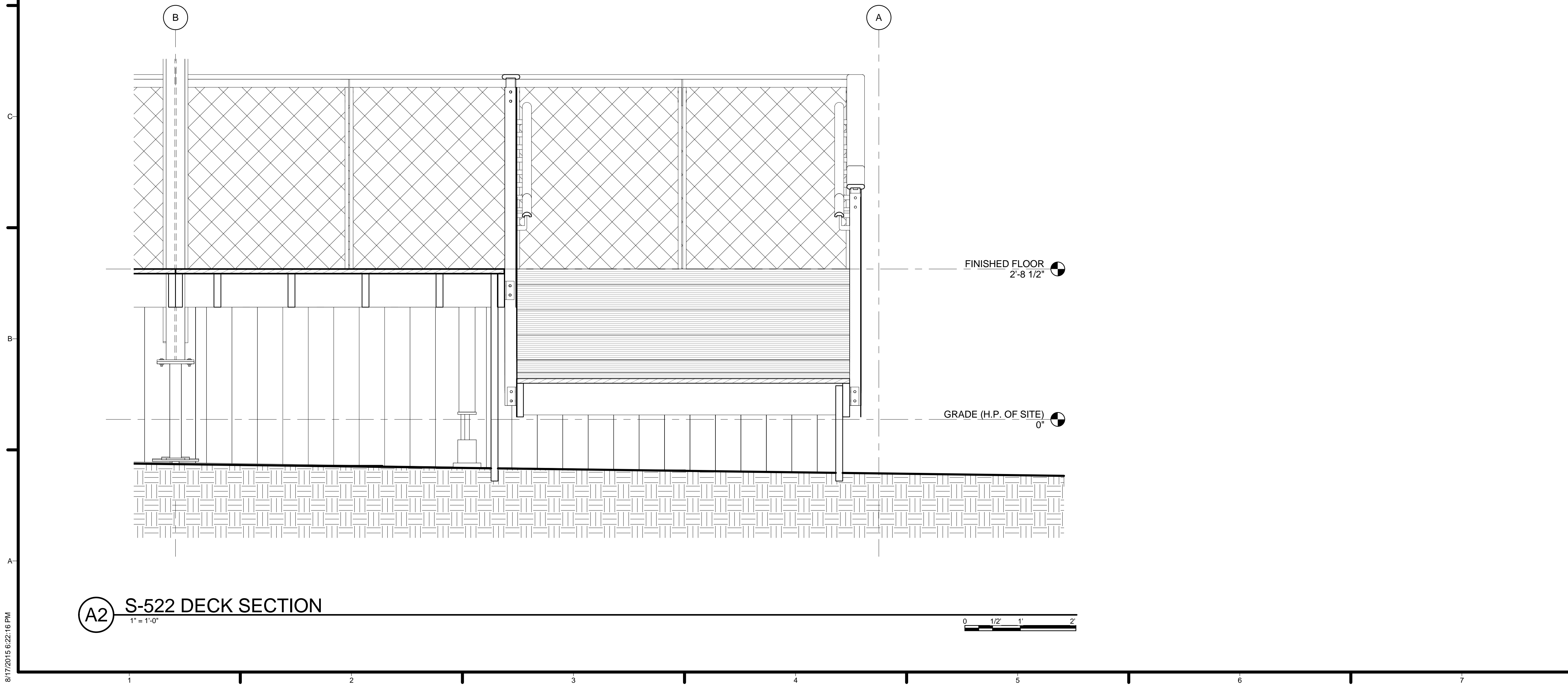
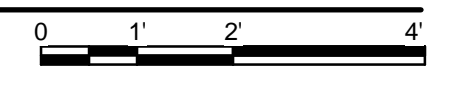
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 SHEET TITLE

DECK DETAILS

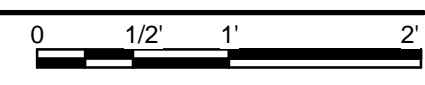
S-521



D1 S-522 RAMP ELEVATION
1/2" = 1'-0"



A2 S-522 DECK SECTION
1" = 1'-0"



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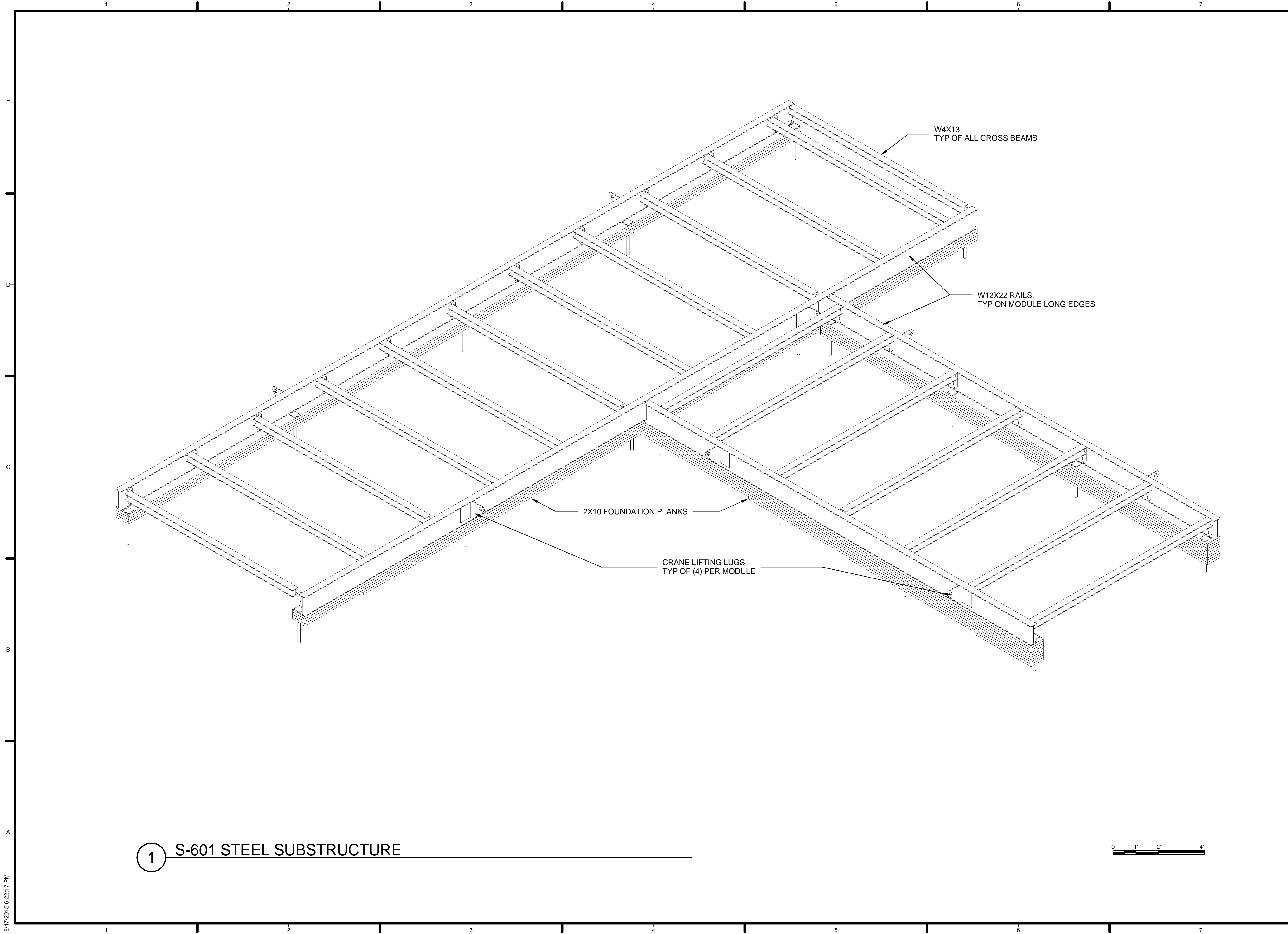
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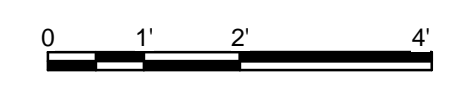
DECK DETAILS

S-522

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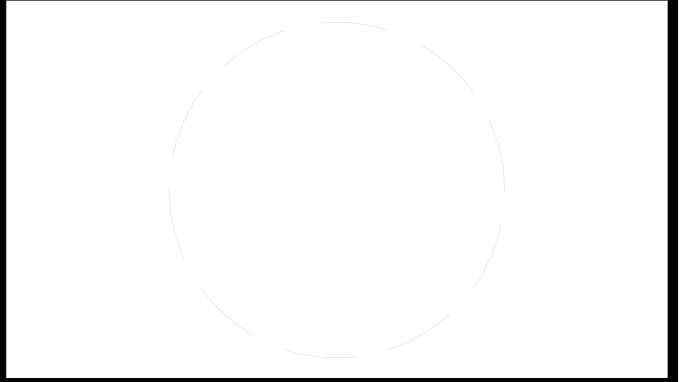


① S-601 STEEL SUBSTRUCTURE



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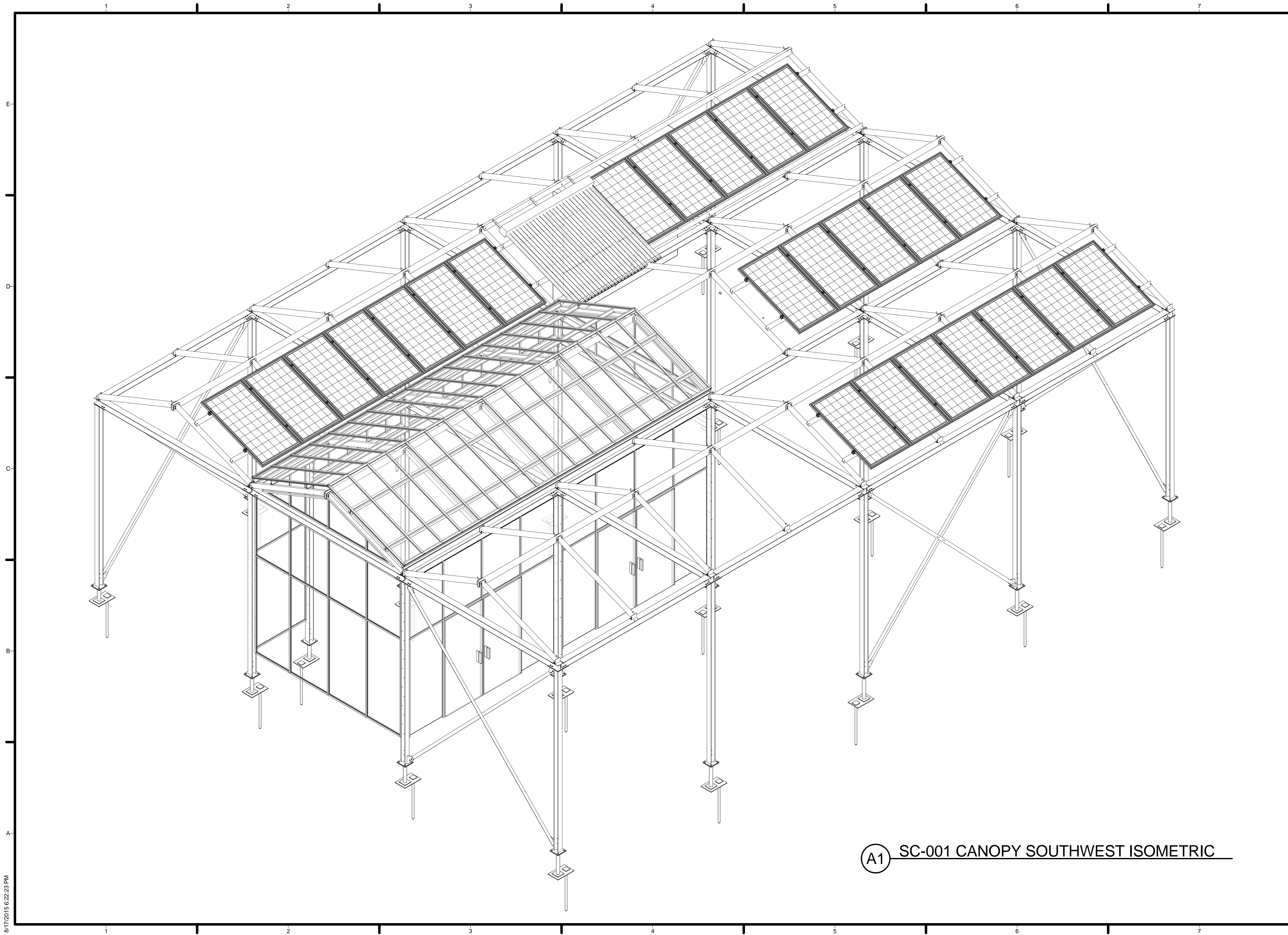
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CONSTRUCTION DOCUMENTS

SHEET TITLE
 STEEL SUBSTRUCTURE

S-601



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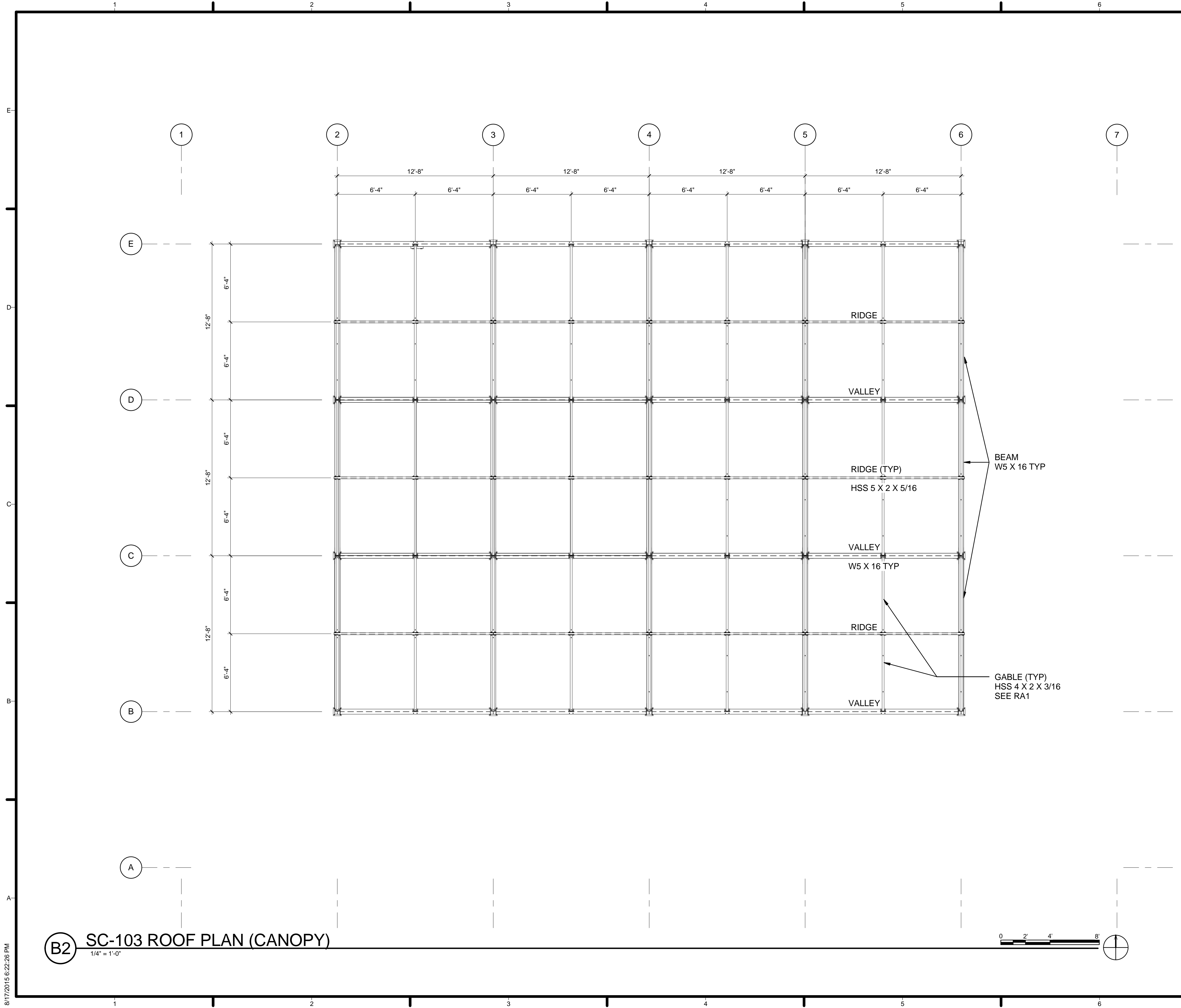
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CONSTRUCTION DOCUMENTS

SHEET TITLE

COVER SHEET -
 CANOPY +
 GROWLARIUM

SC-001



(B2) SC-103 ROOF PLAN (CANOPY)
1/4" = 1'-0"

GENERAL SHEET NOTES

1. THIS DRAWING SHOWS STEEL STRUCTURE ONLY.
FOR FULL ROOF PLAN, SEE SHEET A-101.

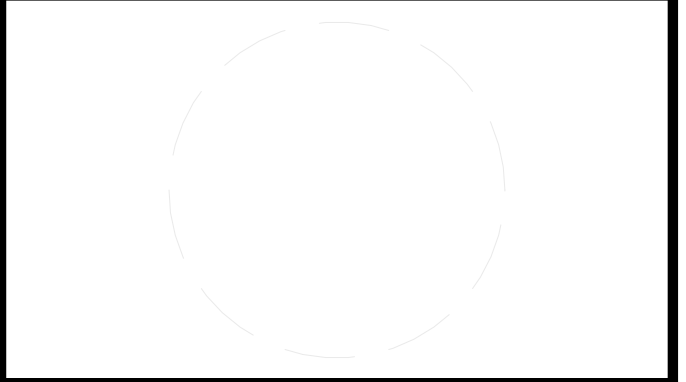
REFERENCE KEYNOTES

SHEET KEYNOTES



TEAM NAME: NY BUFF
ADDRESS: UB DEPT OF ARCHITECTURE
114 DIEFFENDORF HALL
BUFFALO, NY 14214
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CONSTRUCTION DOCUMENTS

SHEET TITLE

CANOPY ROOF PLAN

SC-101

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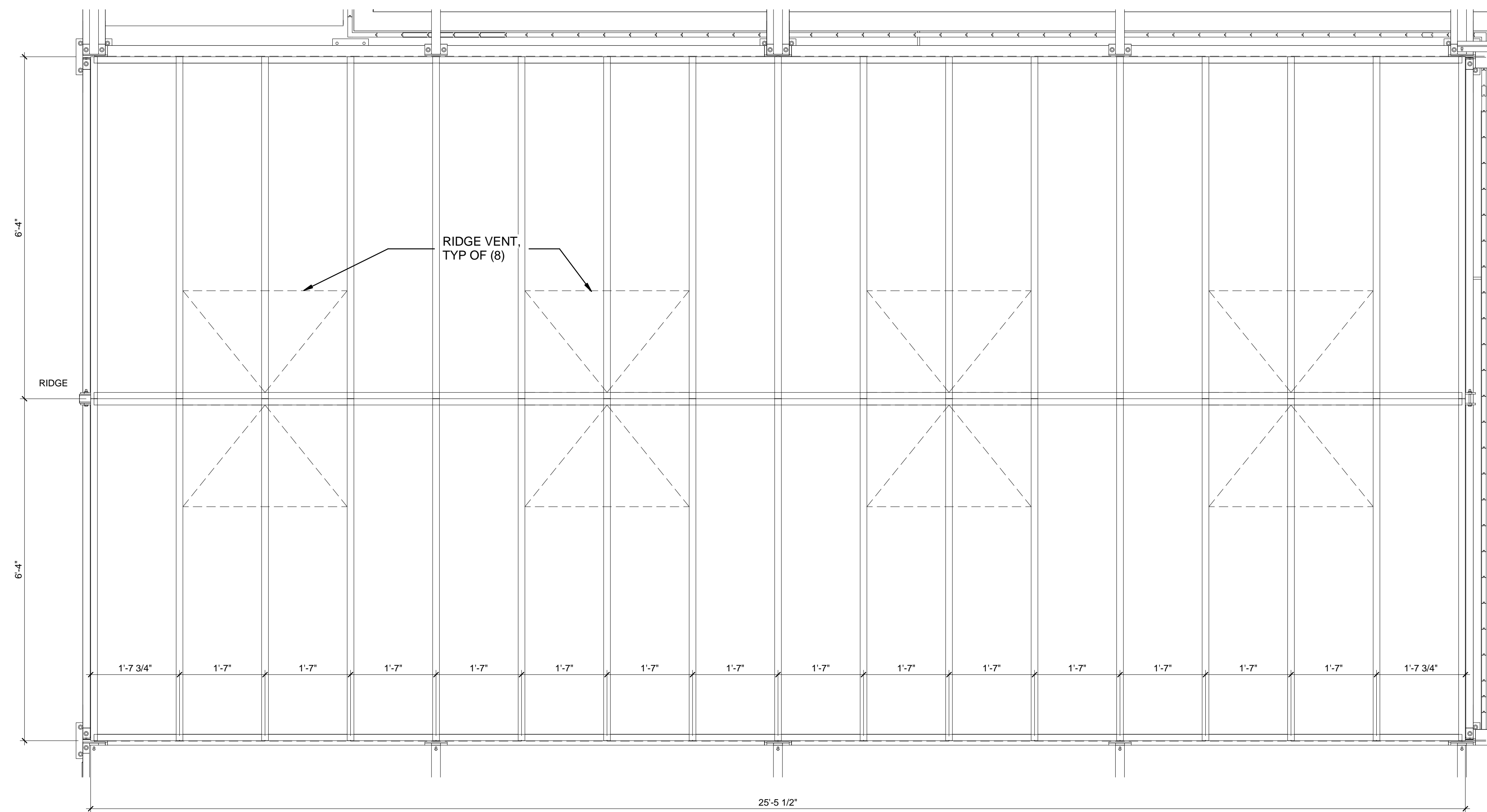
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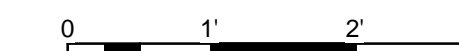
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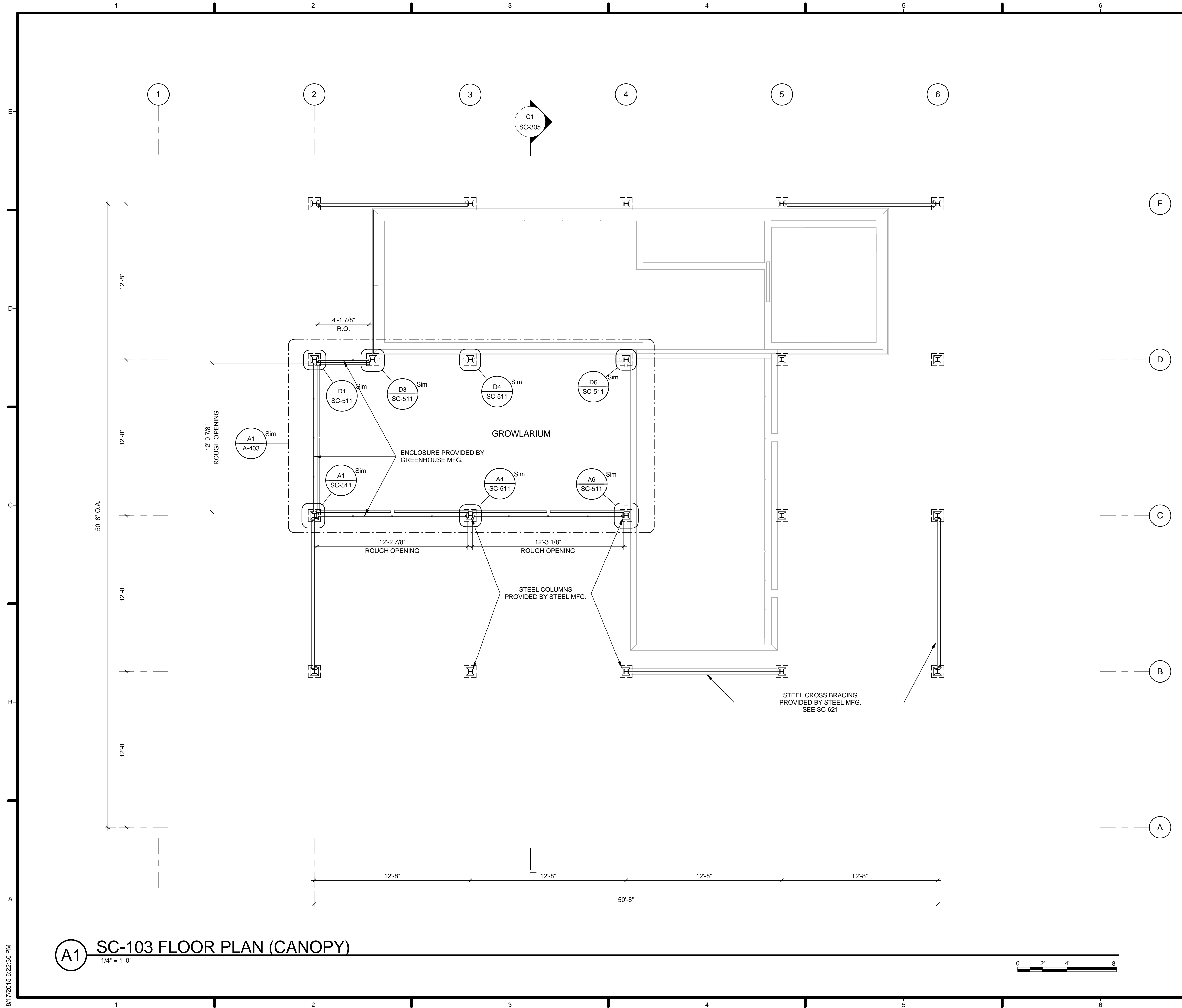
GROWLARIUM ROOF PLAN

SC-102



1 SC-102 GROWLARIUM ROOF PLAN
3/4" = 1'-0"





GENERAL SHEET NOTES

REFERENCE KEYNOTES

SHEET KEYNOTES



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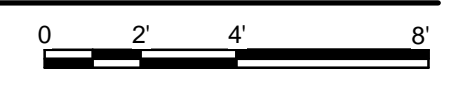
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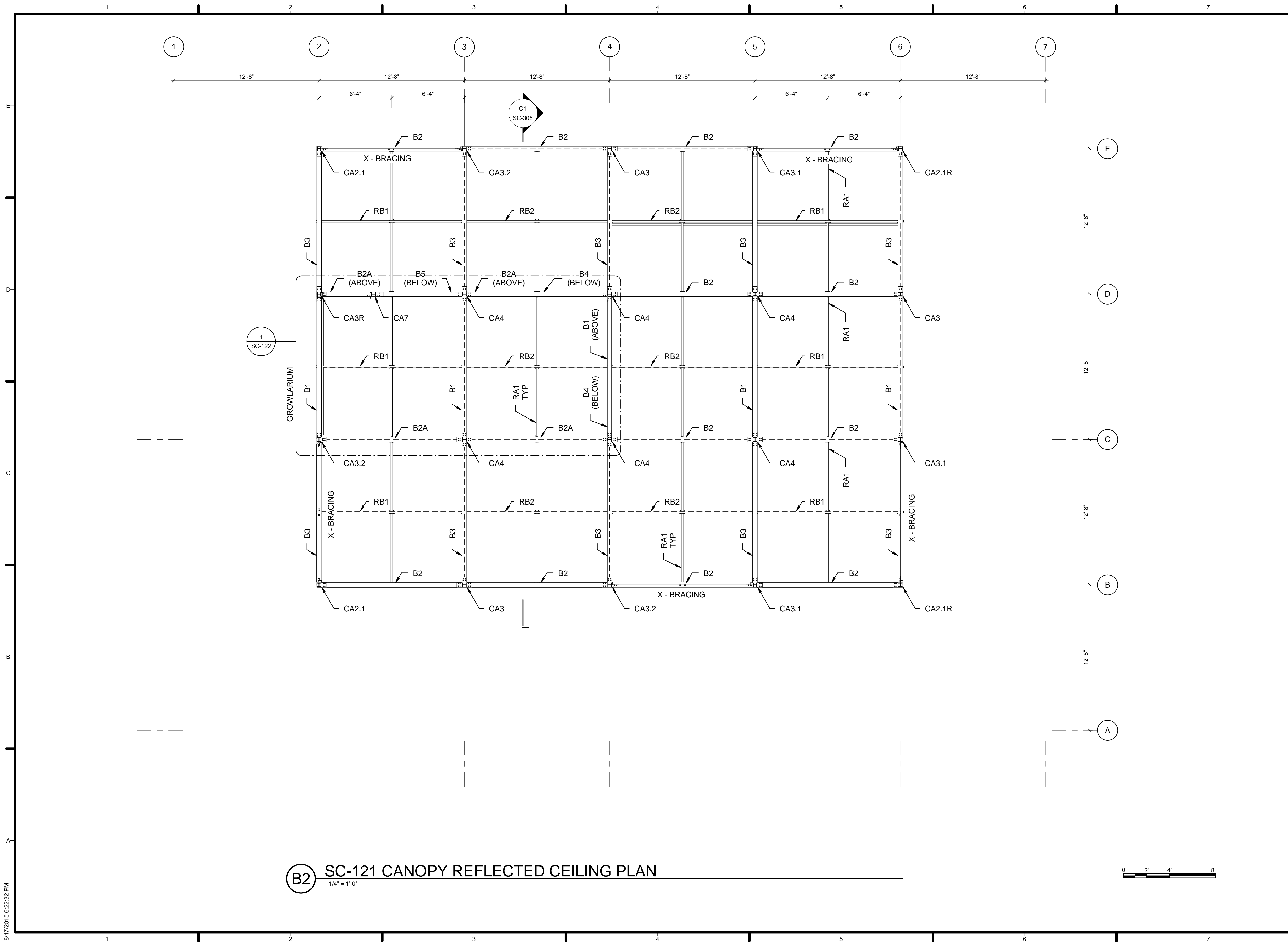
SHEET TITLE
 CANOPY FLOOR PLAN

SC-103

A1 SC-103 FLOOR PLAN (CANOPY)
 1/4" = 1'-0"



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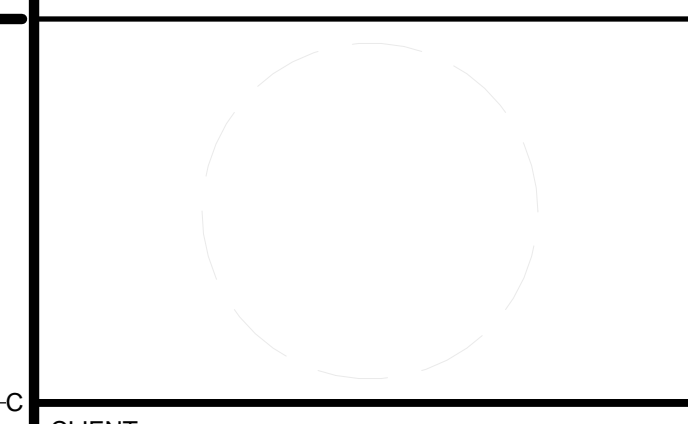


SC-121 CANOPY REFLECTED CEILING PLAN
 1/4" = 1'-0"



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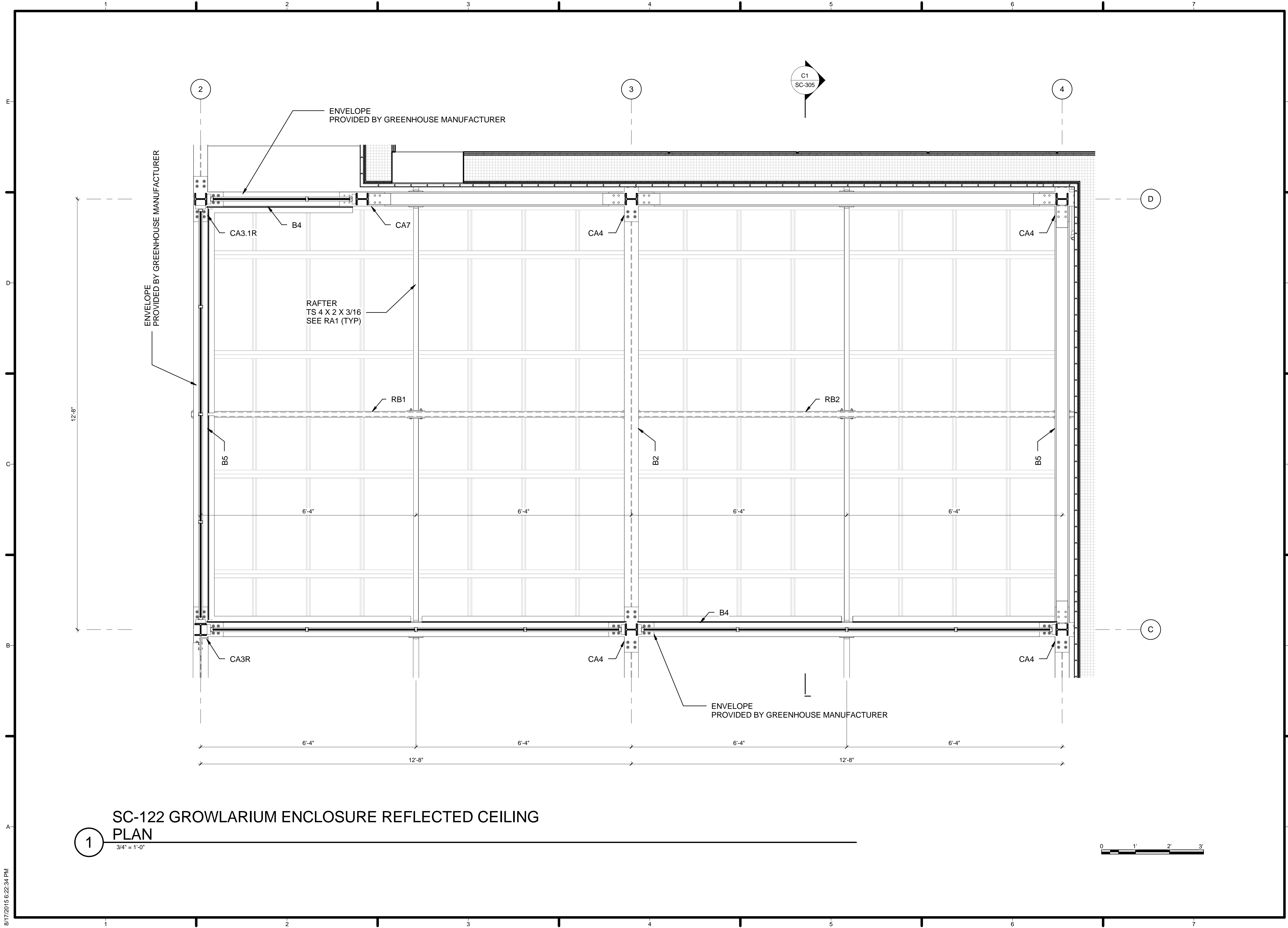
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 SHEET TITLE

**INSTALLATION DWG
 CANOPY REFLECTED
 CEILING PLAN**

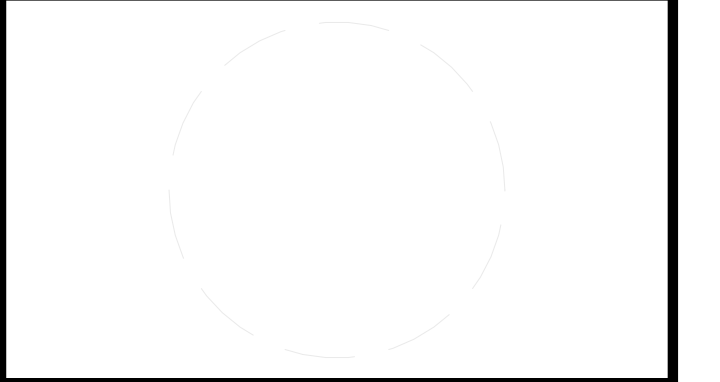
SC-121

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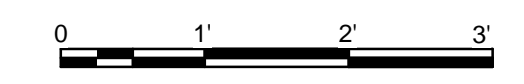
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 SHEET TITLE

GROWLARIUM
 REFLECTED CEILING
 PLAN

SC-122

1 SC-122 GROWLARIUM ENCLOSURE REFLECTED CEILING
 PLAN
 3/4" = 1'-0"



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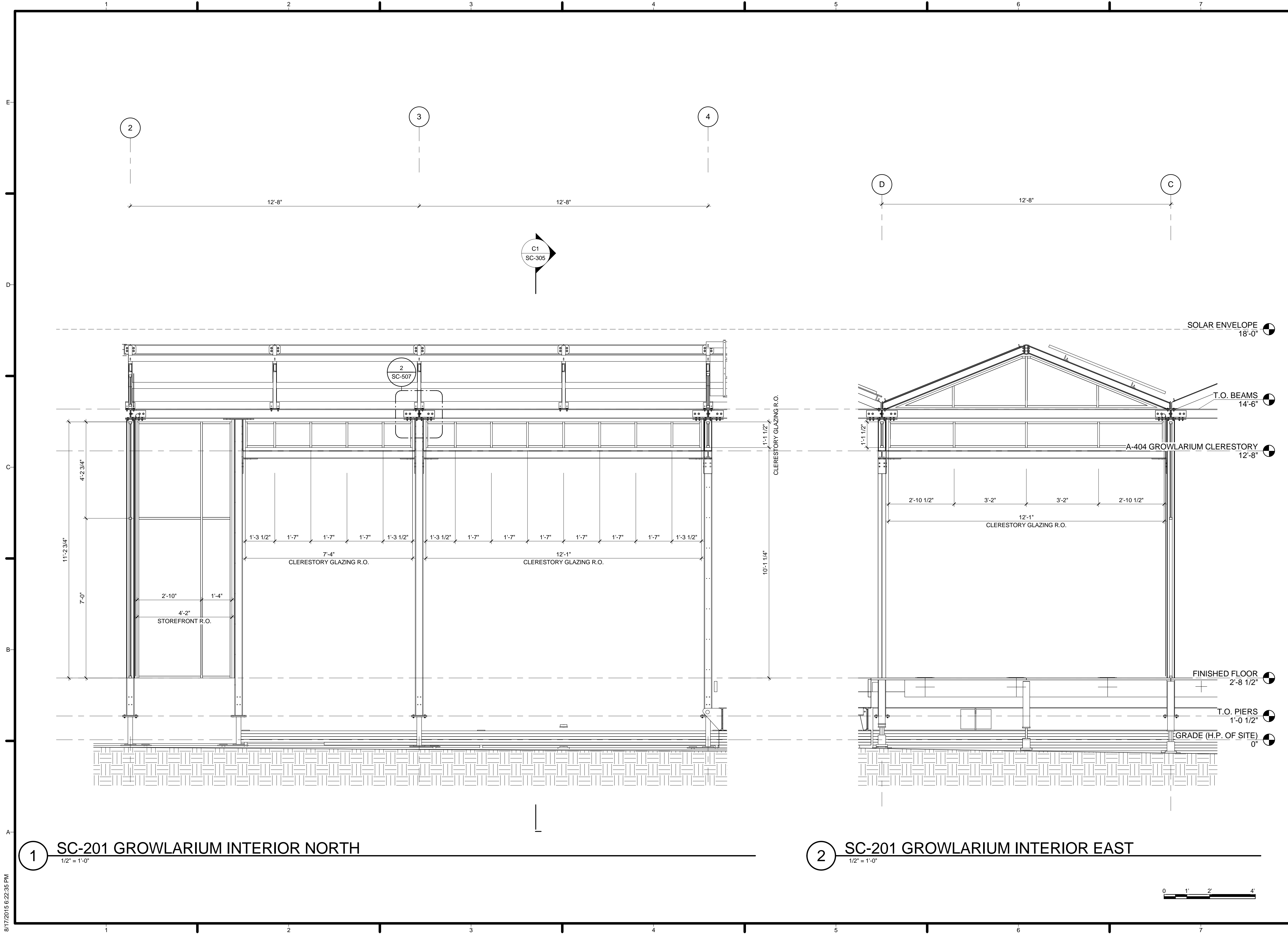


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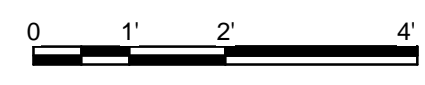
GROWLARIUM
 INTERIOR ELEVATIONS

SC-201



1 SC-201 GROWLARIUM INTERIOR NORTH
 1/2" = 1'-0"

2 SC-201 GROWLARIUM INTERIOR EAST
 1/2" = 1'-0"



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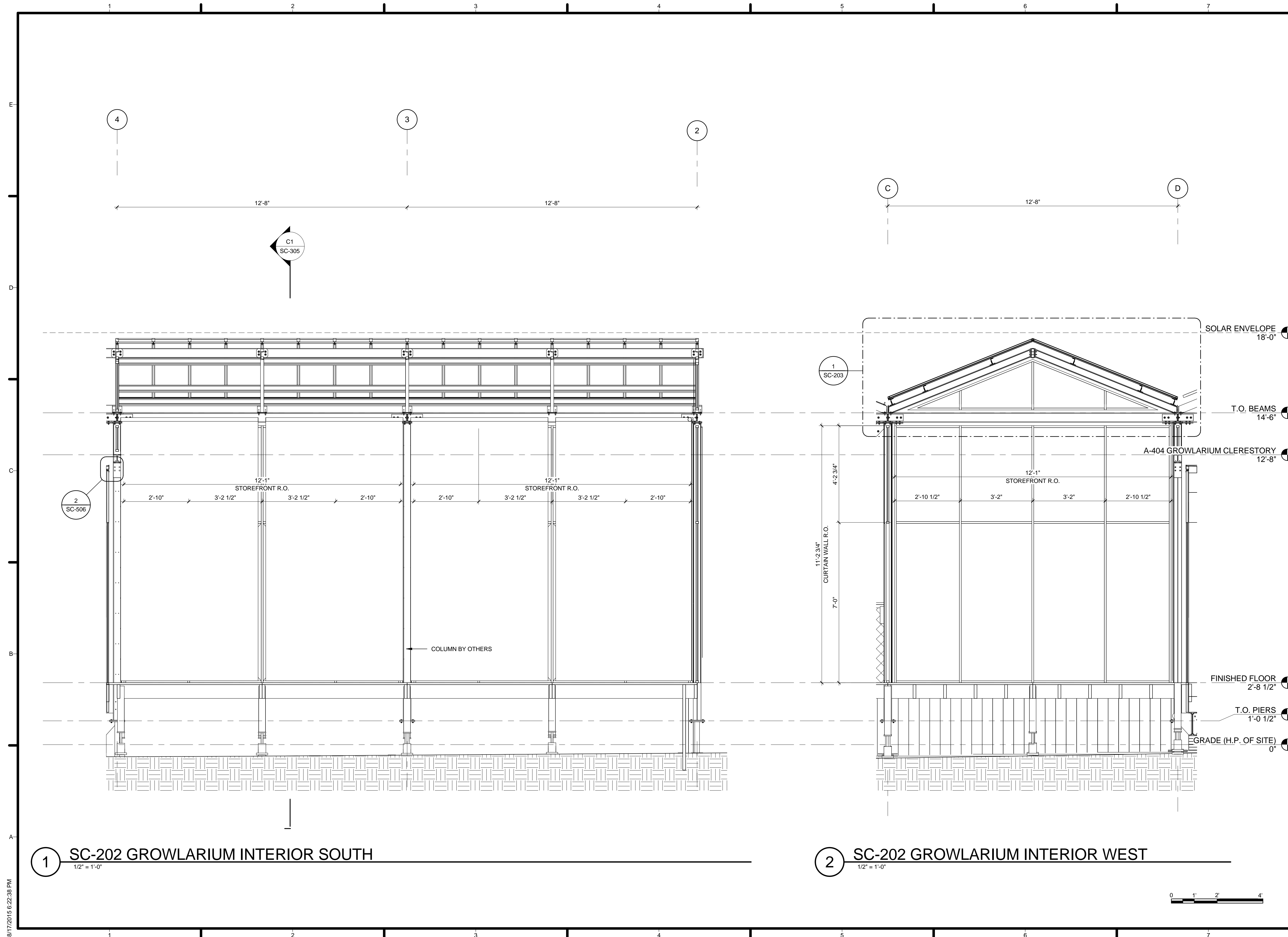
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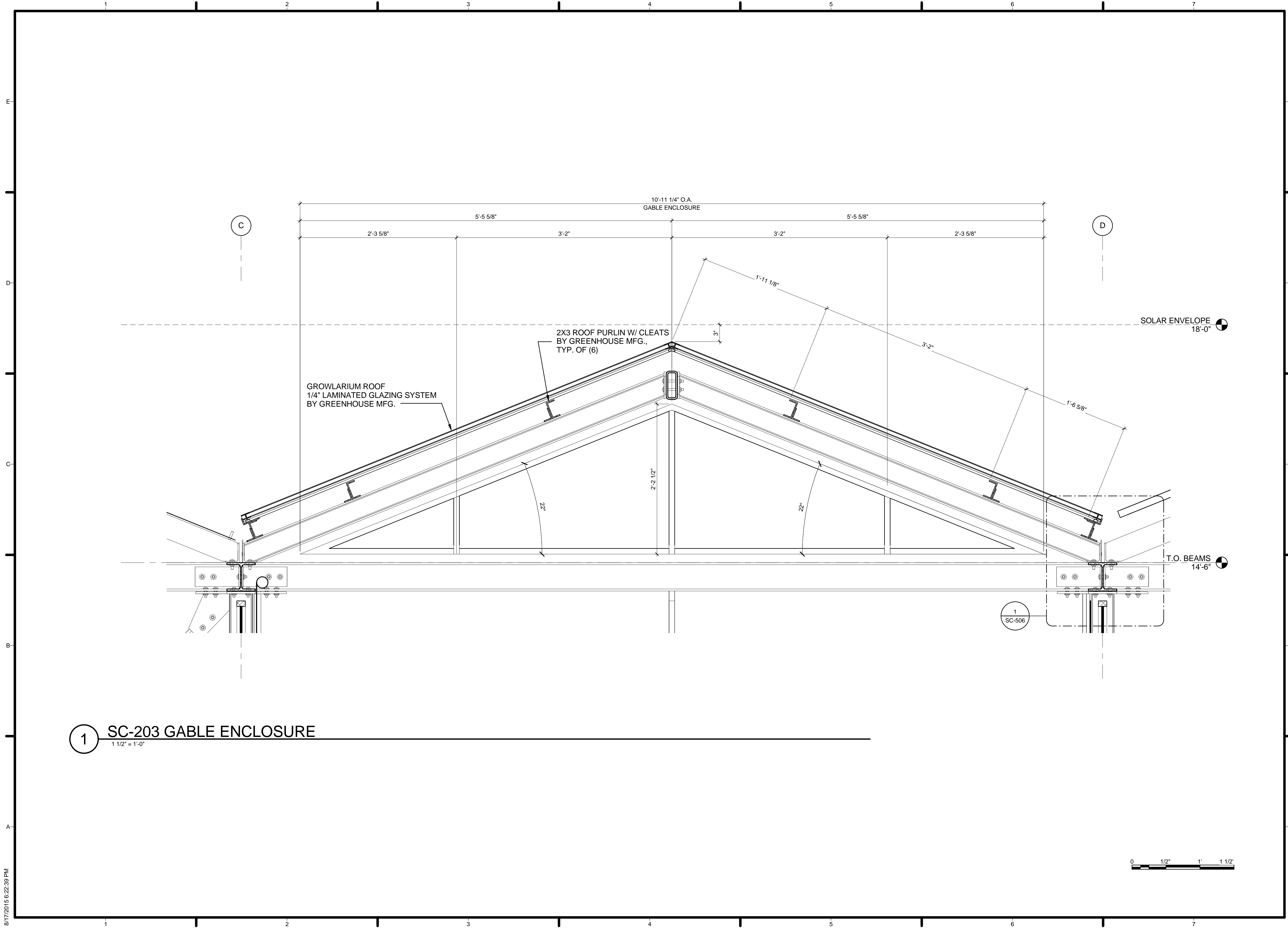
SHEET TITLE
**GROWLARIUM
INTERIOR ELEVATIONS**

SC-202



1 SC-202 GROWLARIUM INTERIOR SOUTH
1/2" = 1'-0"

2 SC-202 GROWLARIUM INTERIOR WEST
1/2" = 1'-0"



1 SC-203 GABLE ENCLOSURE
 1 1/2" = 1'-0"



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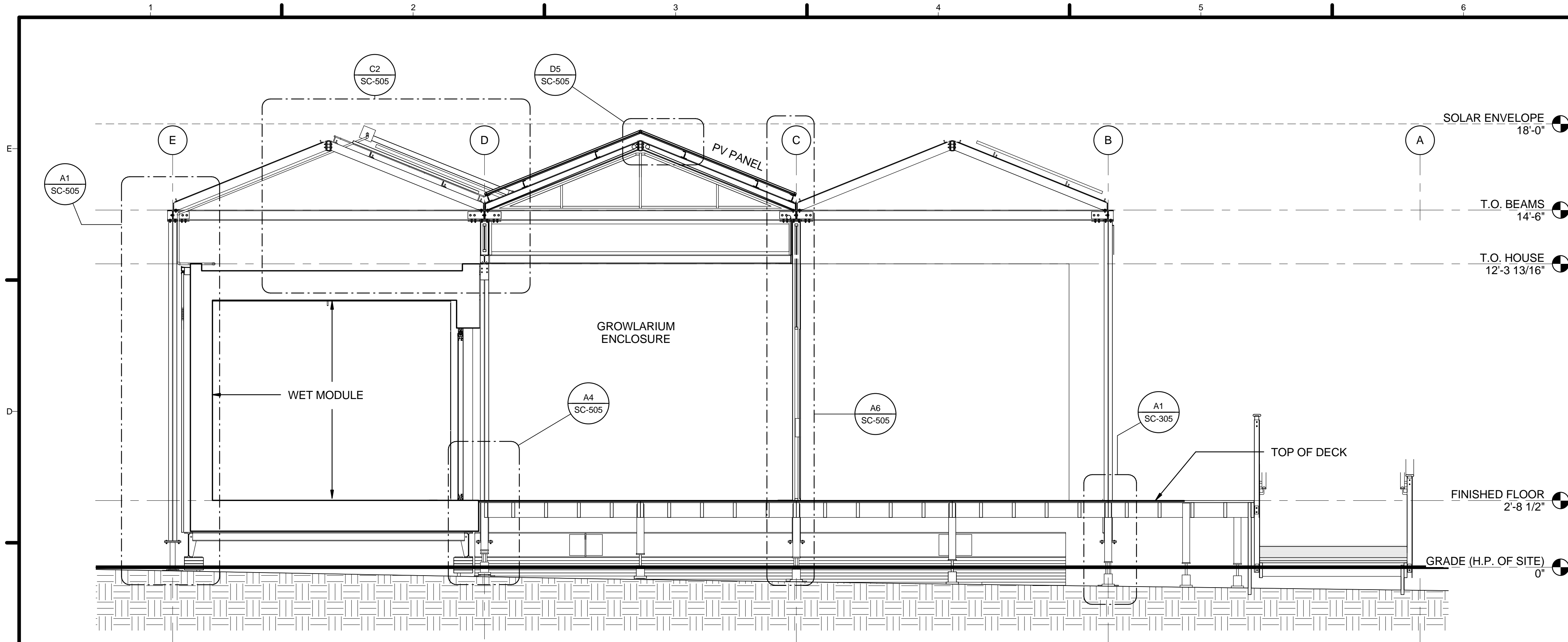
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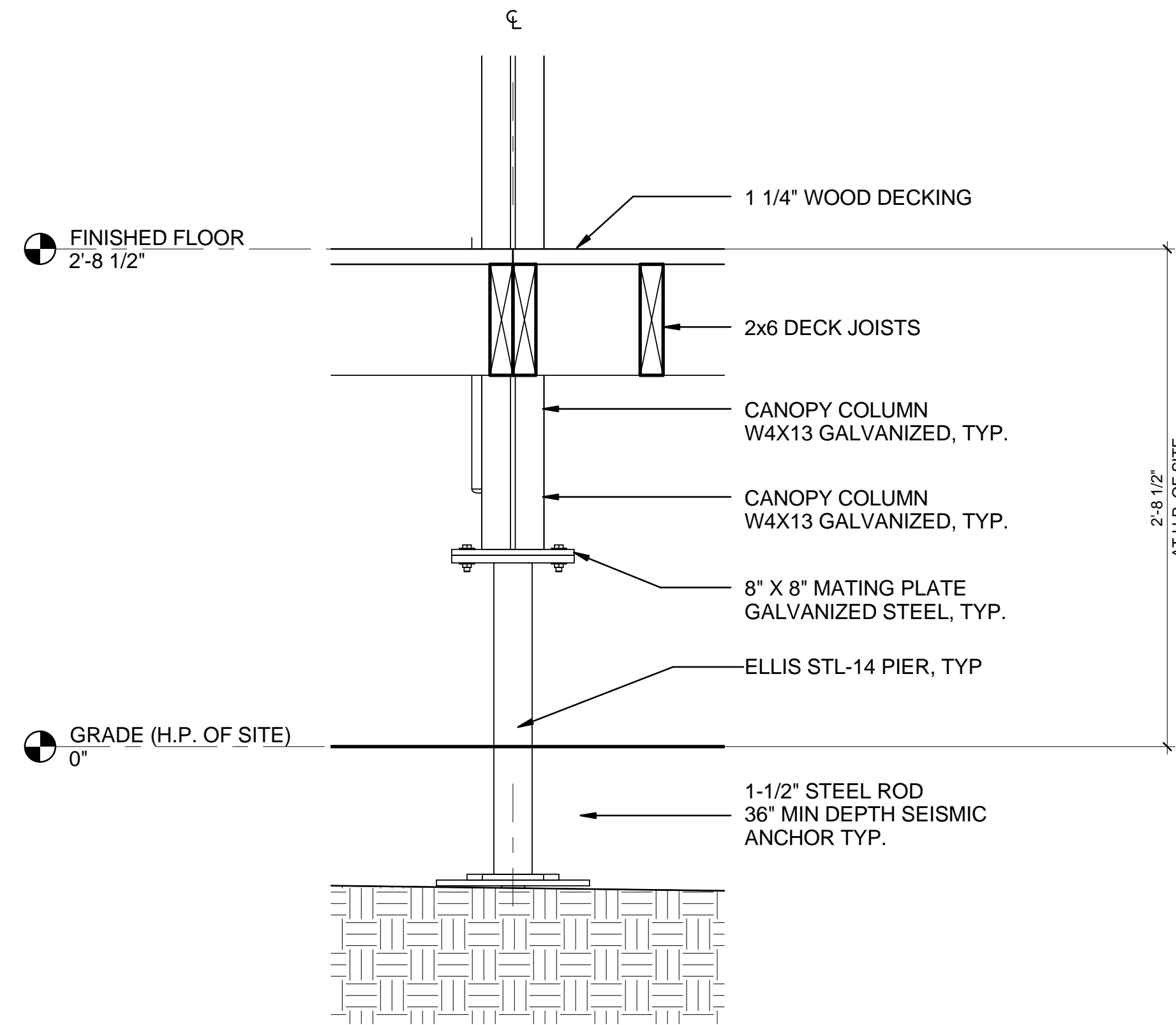
SHEET TITLE
GROWLARIUM GABLE ENCLOSURE

SC-203

8/17/2015 6:22:39 PM



C1 SC-305 TYPICAL SECTION LOOKING EAST
3/8" = 1'-0"



A1 SC-305 CANOPY TO FOUNDATION DETAIL
1 1/2" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

31 66 00.A2 ELLIS STL-14 PIER, TYP

SHEET KEYNOTES



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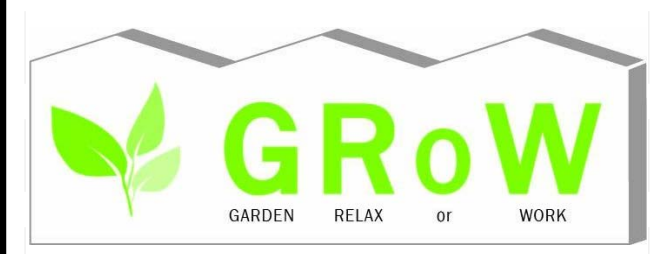
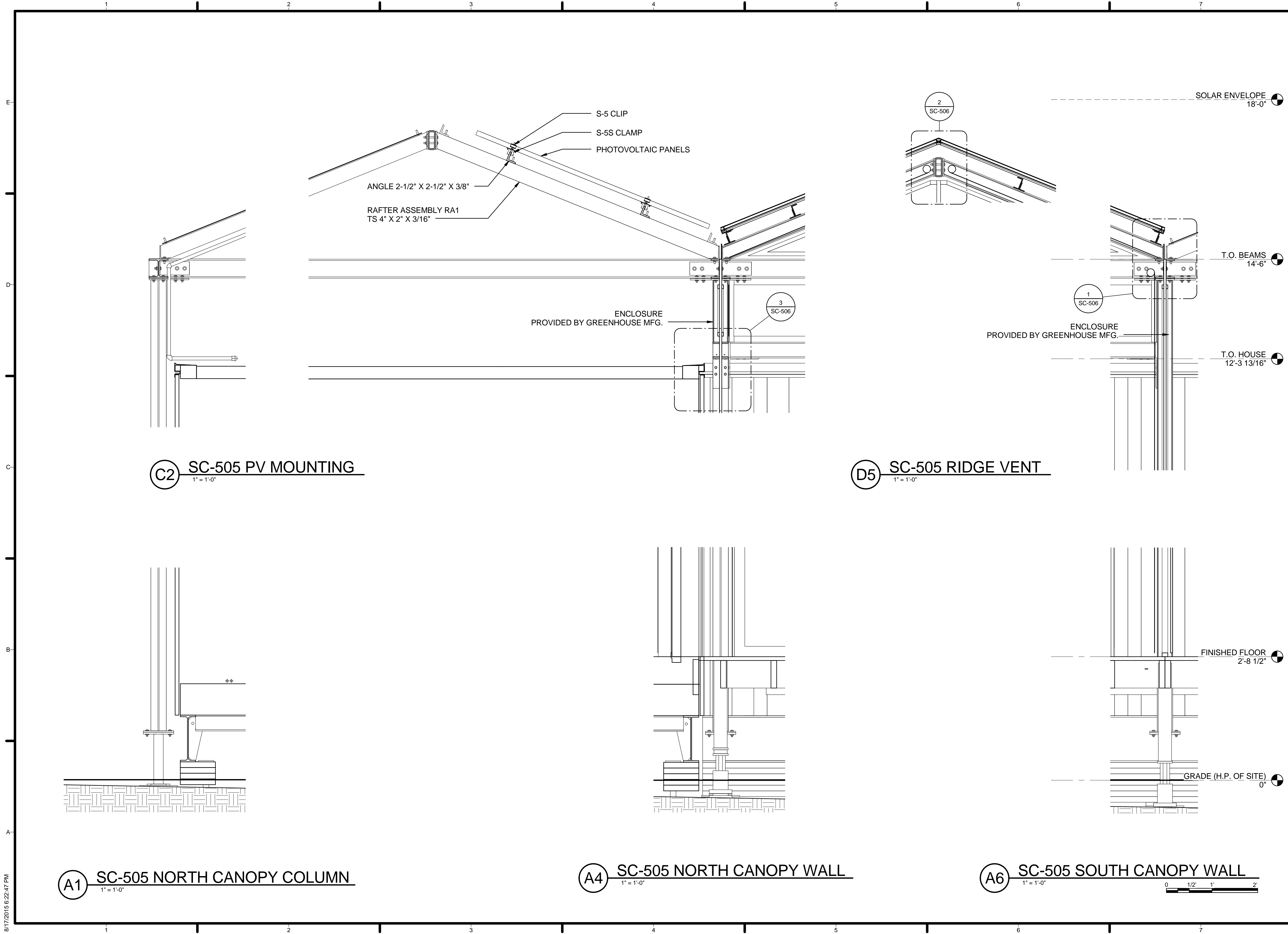
CONSTRUCTION DOCUMENTS

SHEET TITLE

CANOPY STRUCTURE
 BUILDING SECTIONS

SC-305





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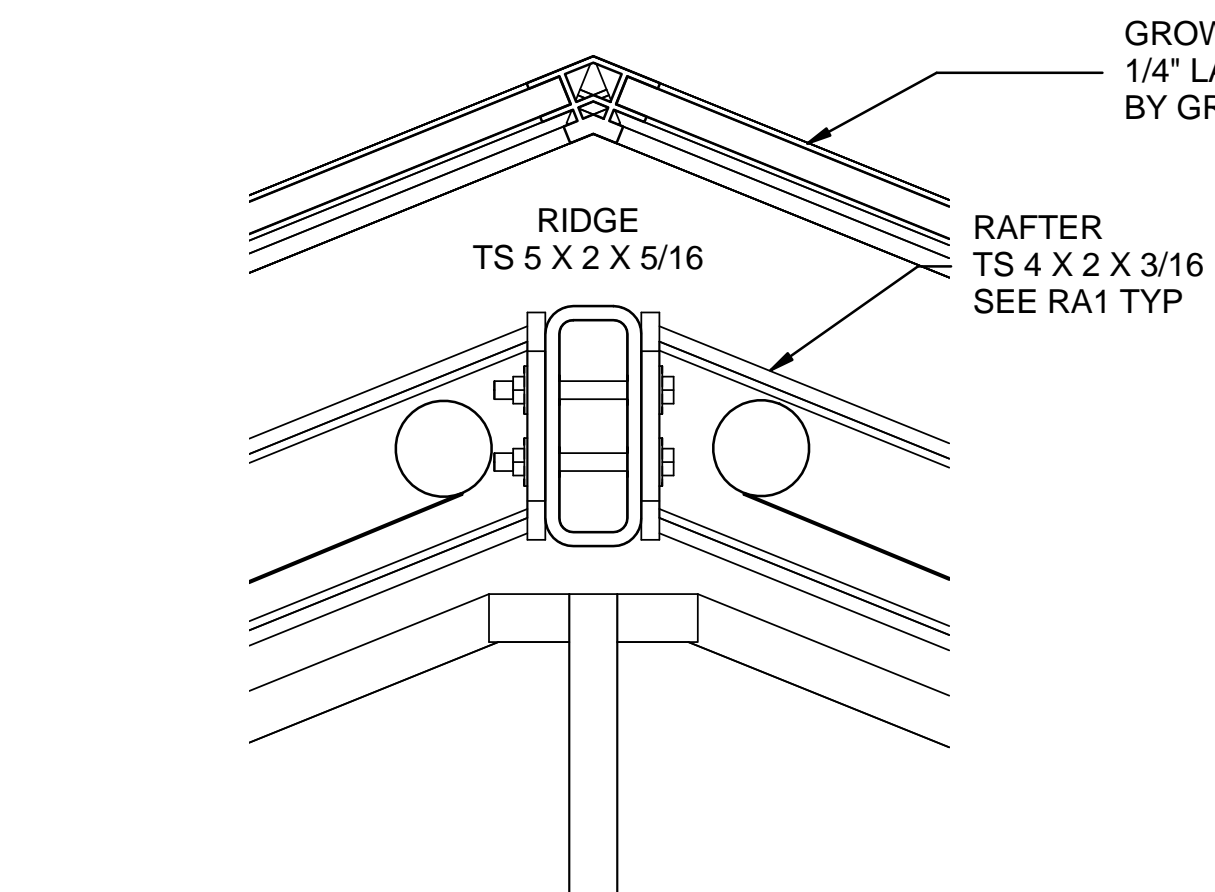


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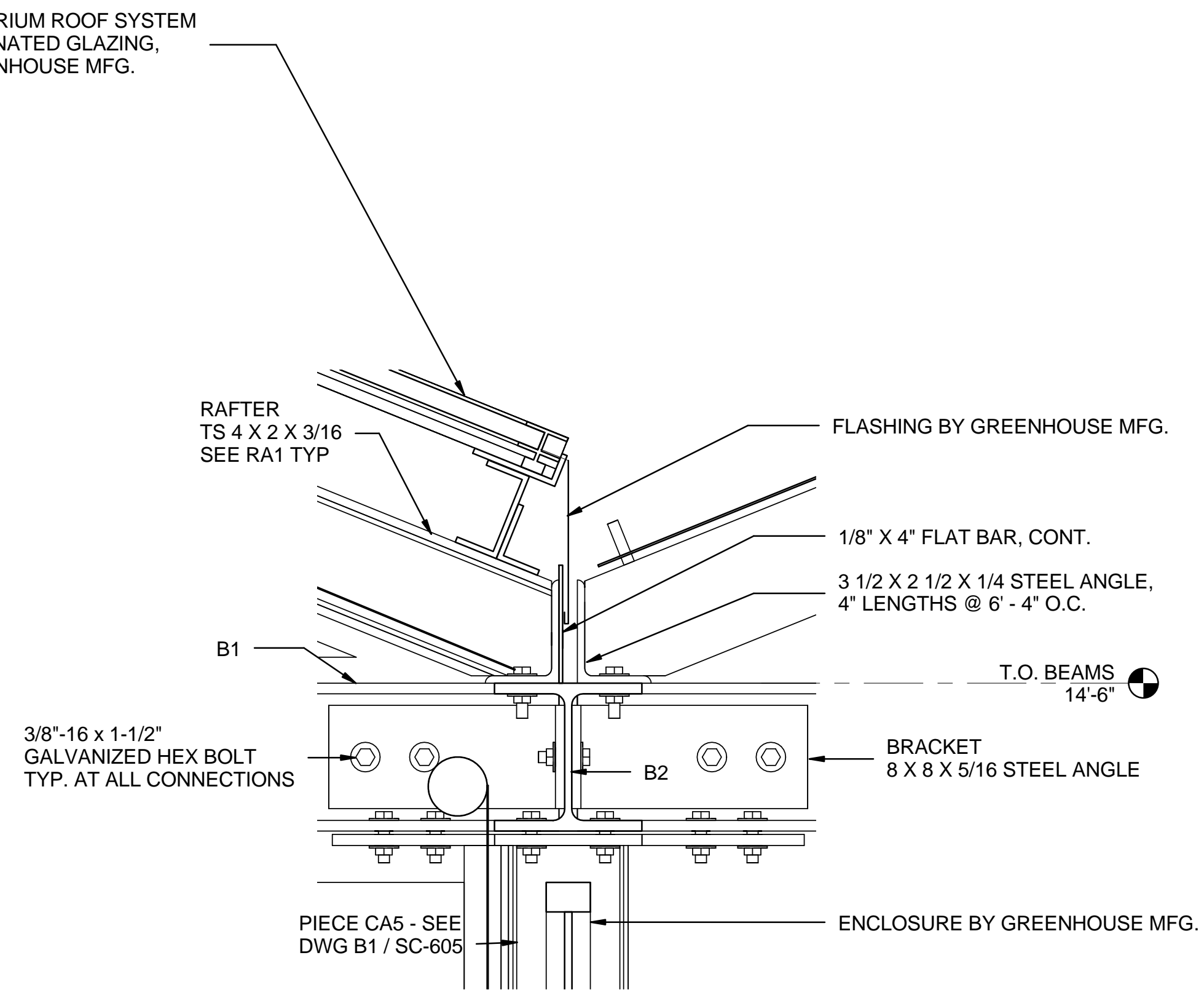
CONSTRUCTION DOCUMENTS
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CANOPY STRUCTURE
 TYPICAL SECTIONS

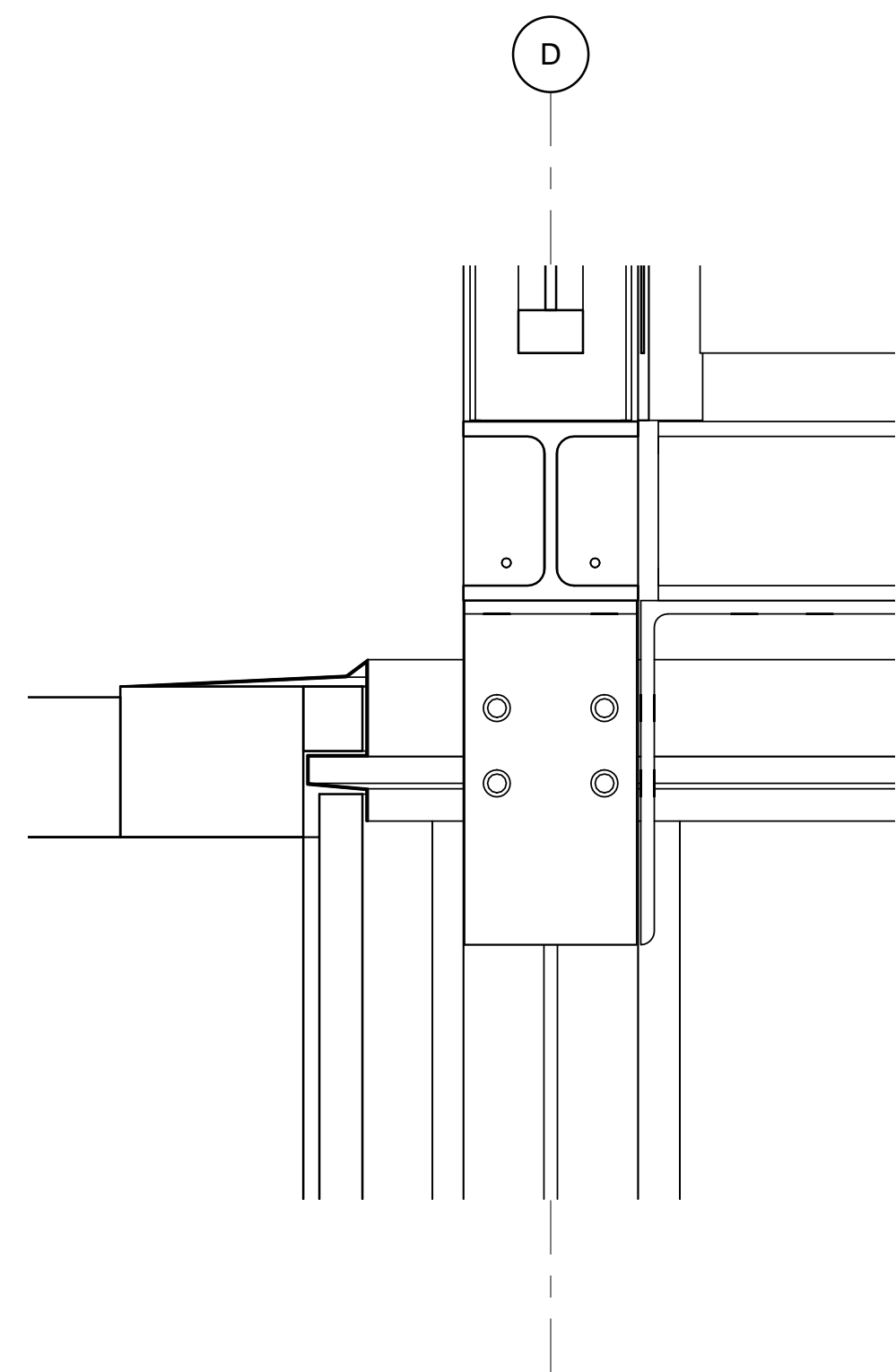
SC-505



2 SC-506 RIDGE BEAM DETAIL
3" = 1'-0"



1 SC-506 POST AND BEAM CONNECTION DETAIL
3" = 1'-0"



3 SC-506 GROWLARIUM TO HOUSE ATTACHMENT
3" = 1'-0"



GENERAL SHEET NOTES

- FOR BEAM SIZES AND DETAILS, SEE SHEET SC-614
- FOR RAFTER SIZES AND DETAILS, SEE SHEET SC-606

REFERENCE KEYNOTES

SHEET KEYNOTES



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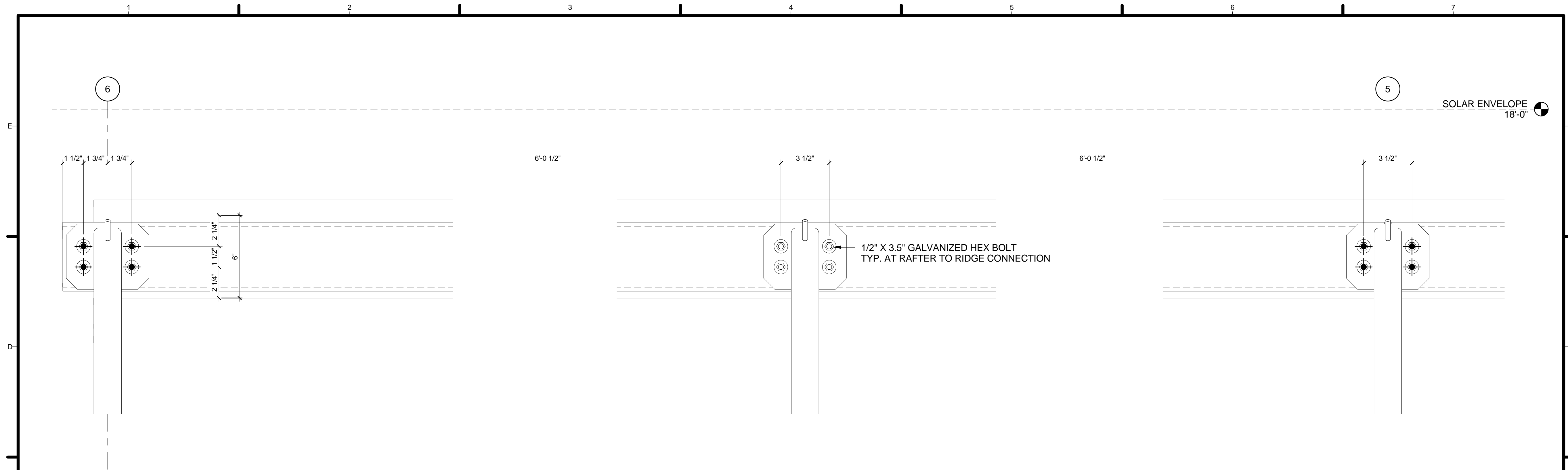
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CONSTRUCTION DOCUMENTS

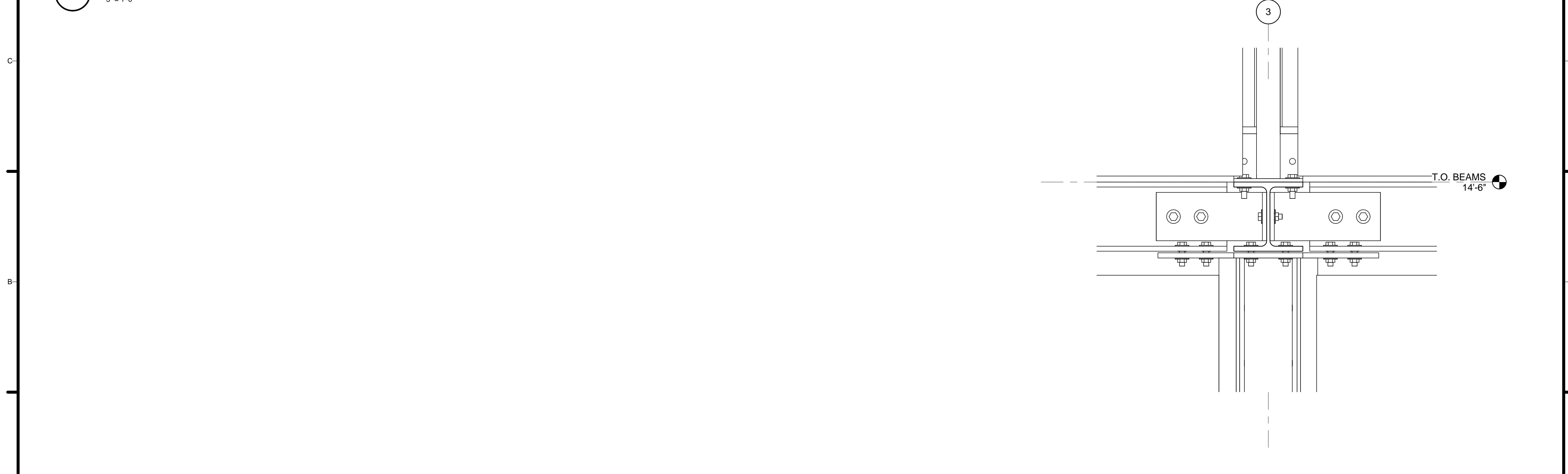
SHEET TITLE

CANOPY +
GROWLARIUM DETAILS

SC-506



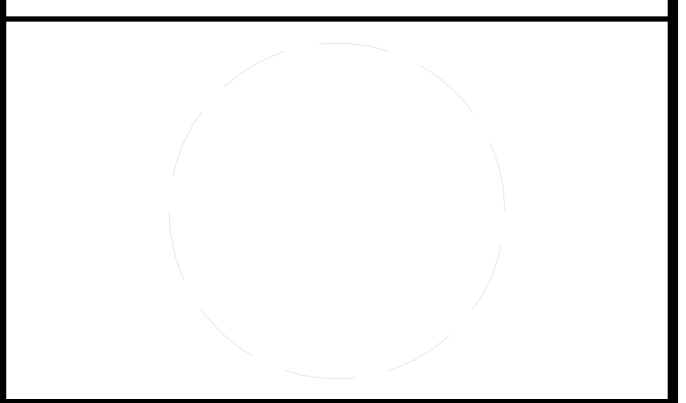
1 SC-507 RIDGE BEAM CONNECTION DETAIL
3" = 1'-0"



2 SC-507 GROWLARIUM TO COLUMN + BEAM
3" = 1'-0"



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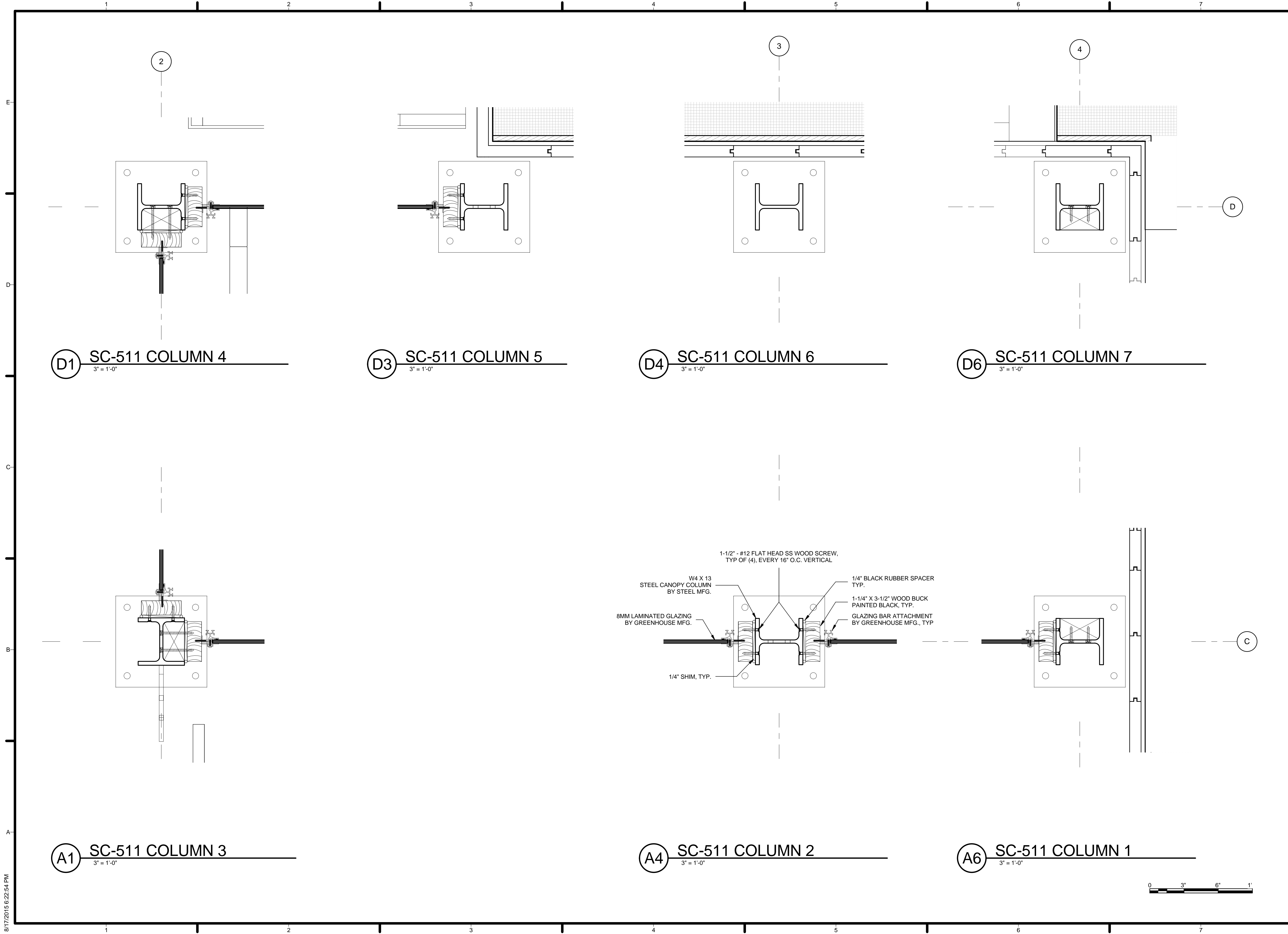
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CONSTRUCTION DOCUMENTS
 SHEET TITLE

CANOPY +
 GROWLARIUM DETAILS

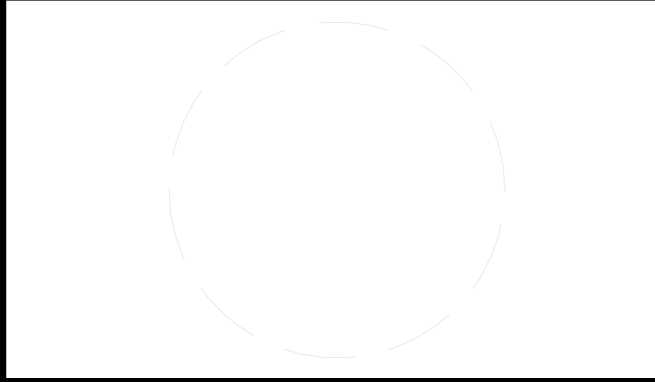
SC-507

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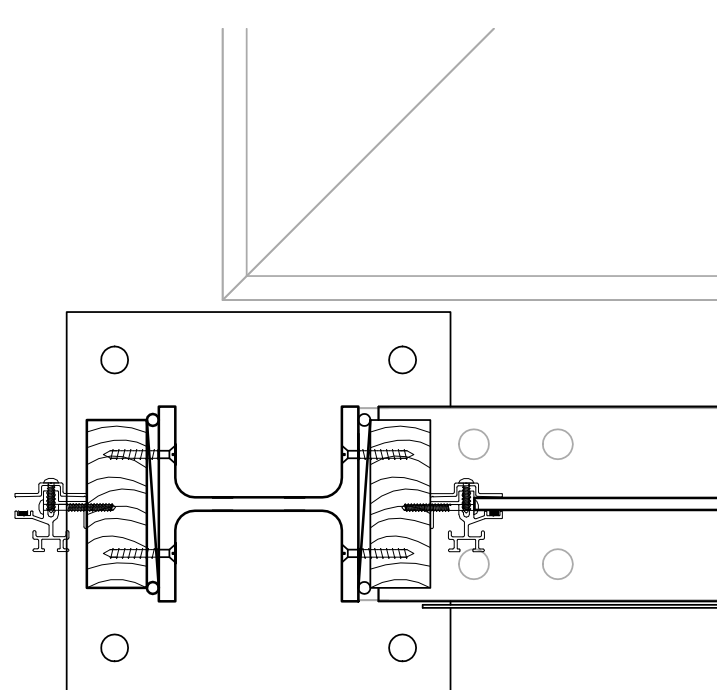
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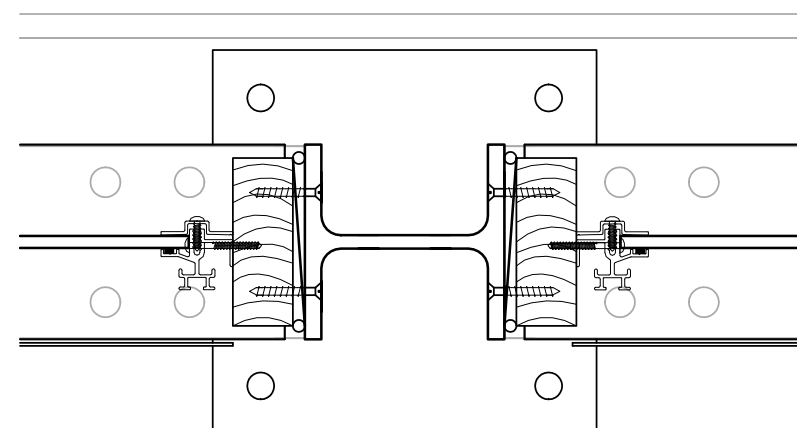
CONSTRUCTION DOCUMENTS
 SHEET TITLE

GROWLARIUM COLUMN
 PLAN DETAILS

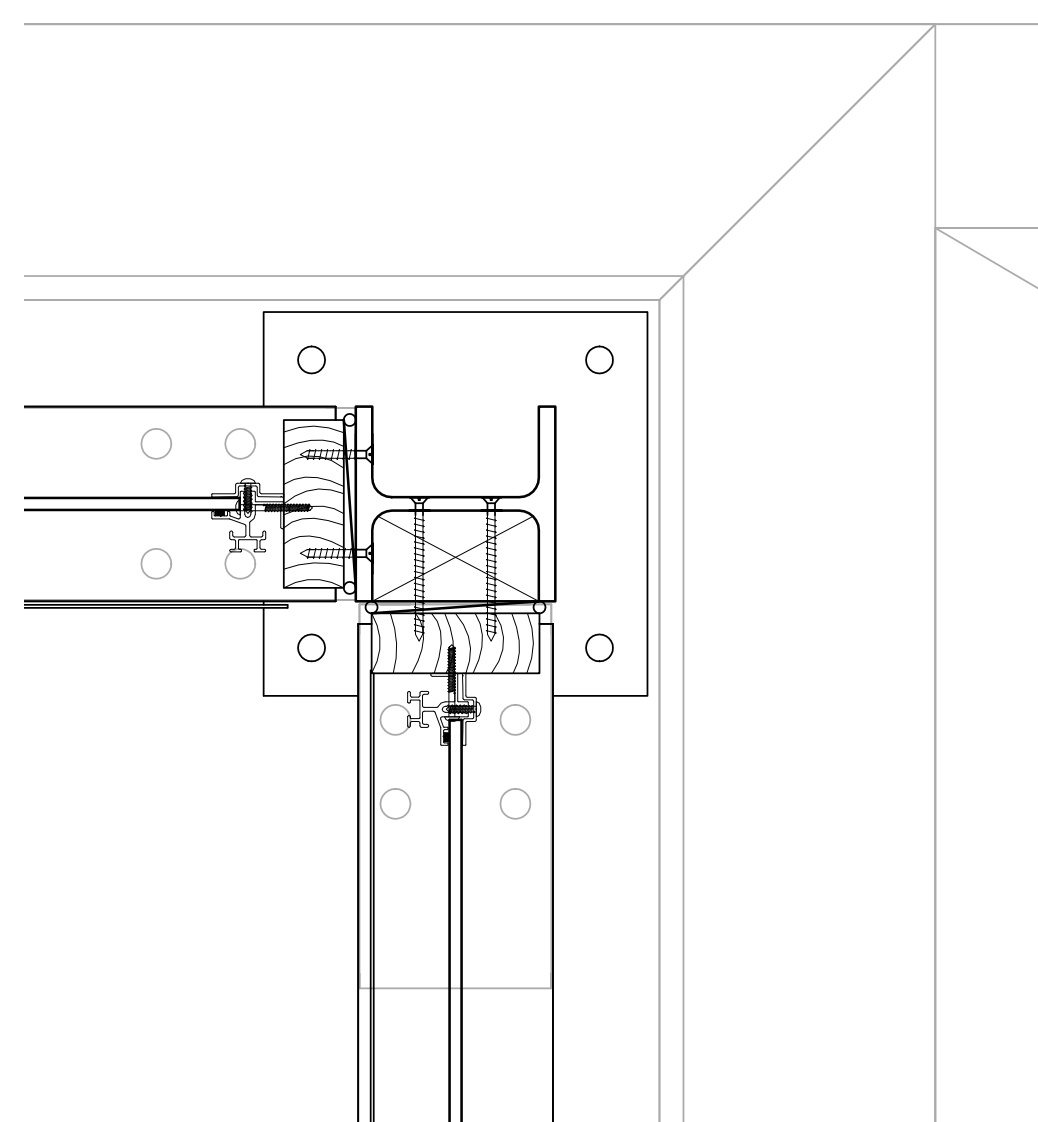
SC-511



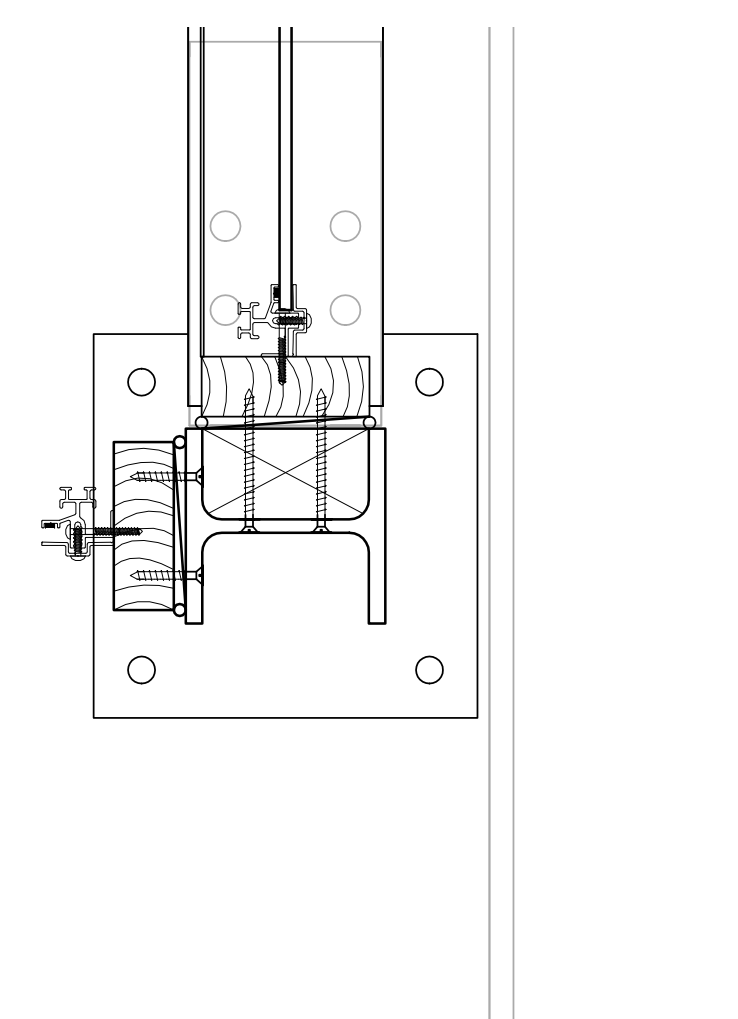
(D3) SC-512 COLUMN 5
3" = 1'-0"



(D4) SC-512 COLUMN 6
3" = 1'-0"



(D6) SC-512 COLUMN 7
3" = 1'-0"



(A6) SC-512 COLUMN 1
3" = 1'-0"



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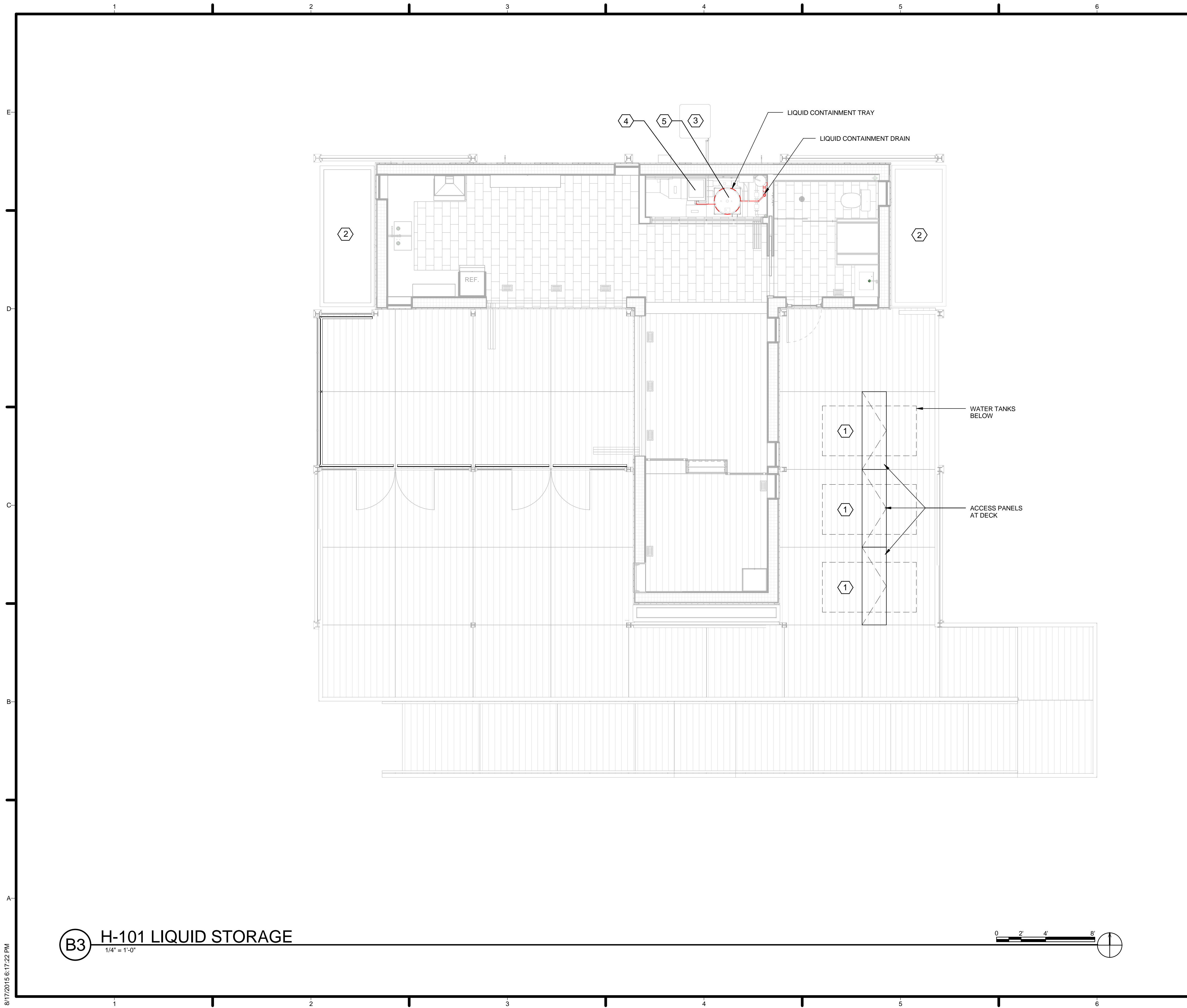
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SHEET TITLE

GROWLARIUM COLUMN
 PLAN DETAILS-
 CLERESTORY

SC-512



GENERAL SHEET NOTES

REFERENCE KEYNOTES

- ① POTABLE WATER STORAGE (3 X 500 GA.)
- ② WASTE WATER STORAGE (500 GA.)
- ③ COMPRESSOR
- ④ AIR HANDLER
- ⑤ 80 GALLON HOT WATER TANK

SHEET KEYNOTES



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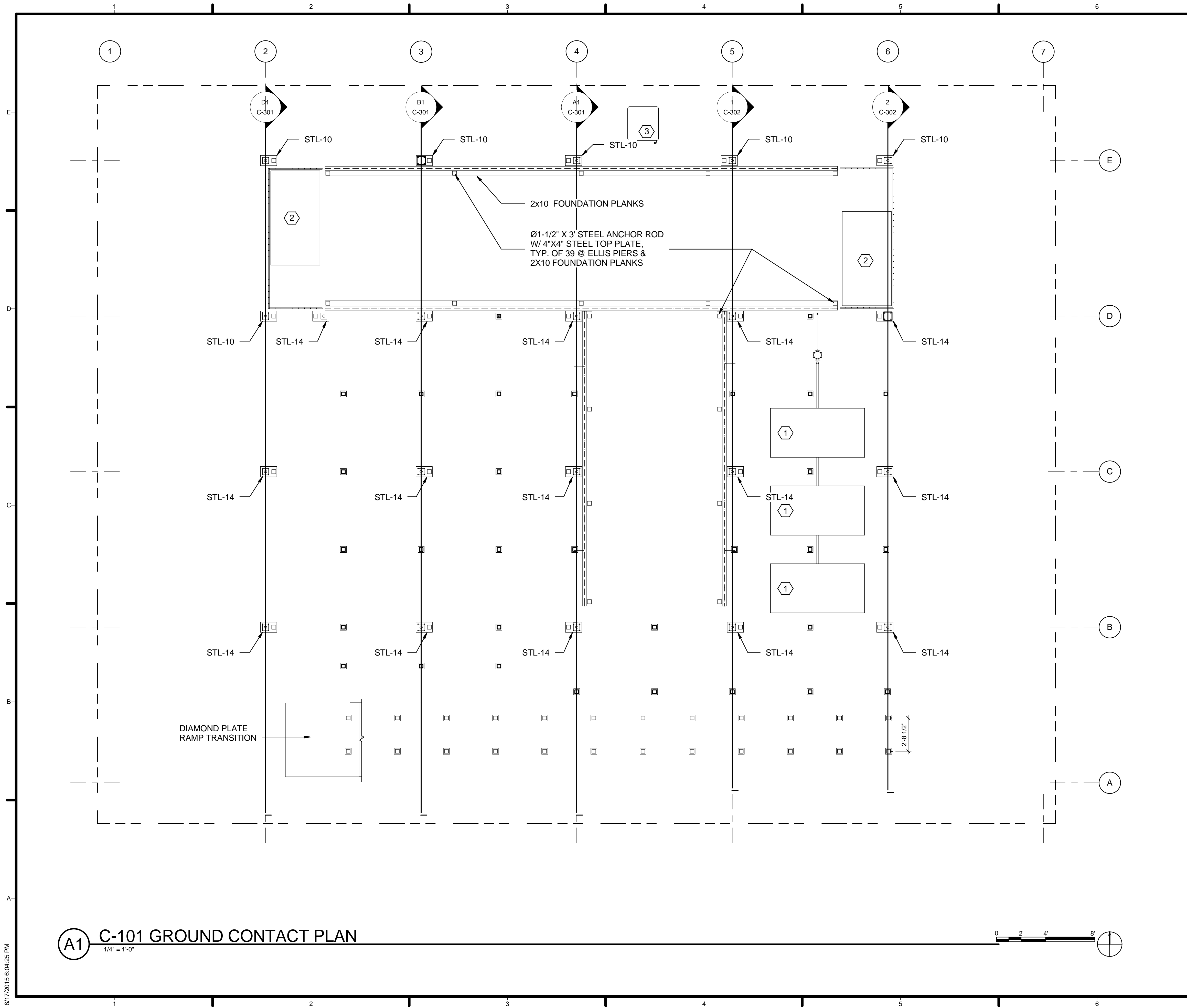
LIQUID LOCATION AND SPILL CONTAINMENT PLAN

H-101

B3 H-101 LIQUID STORAGE
 1/4" = 1'-0"



8/17/2015 6:17:22 PM



(A1) C-101 GROUND CONTACT PLAN
1/4" = 1'-0"

GENERAL SHEET NOTES

1. ALL FOOTINGS ARE ELLIS STL-10 JACKS
2. FOOTINGS AT DECK & RAMP WILL BE 4x4 POST. TYP.
3. 2X10 FOUNDATION PLANKS UNDER HOUSE

REFERENCE KEYNOTES

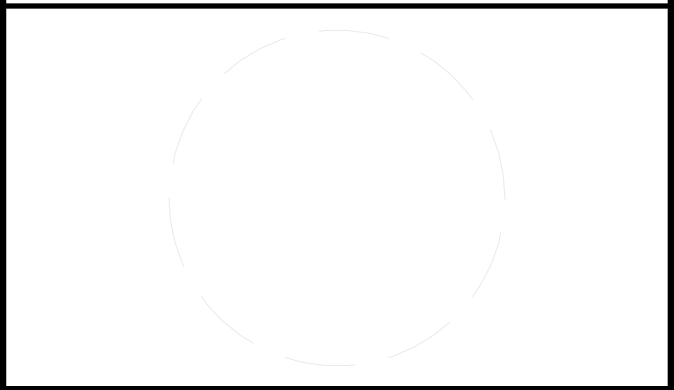
- 1** POTABLE WATER STORAGE (3x) 500 GA.
- 2** WASTE WATER STORAGE (2x) 500 GA.
- 3** COMPRESSOR
- ELLIS ADJUSTABLE FOUNDATION JACK OVER FOOTING BASE (MODEL SPECIFIED IN PLAN)
- 4x4 WOOD POST OVER FOOTING BASE

SHEET KEYNOTES



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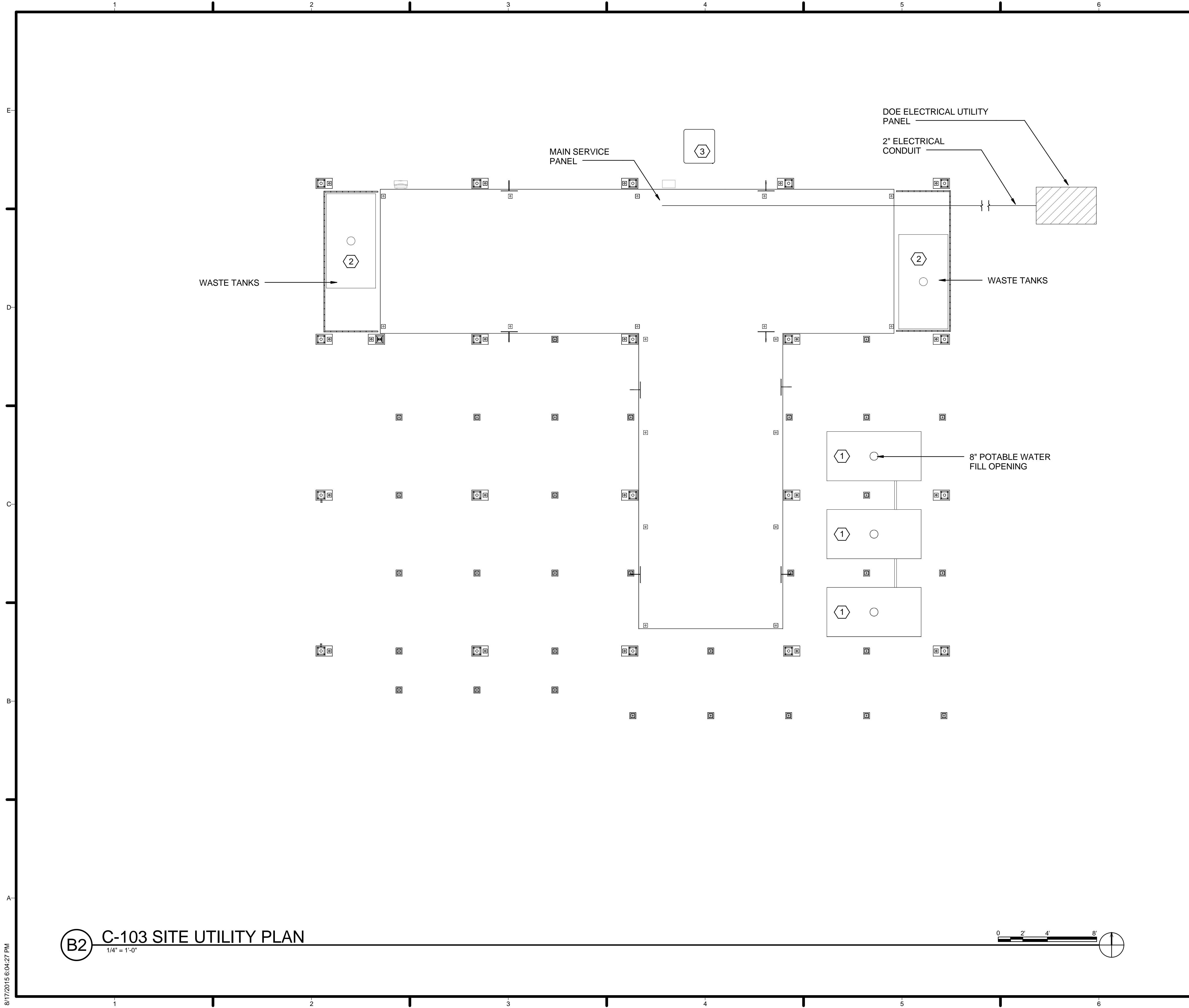
CONSTRUCTION DOCUMENTS

SHEET TITLE

GROUND CONTACT PLAN

C-101

8/17/2015 6:04:25 PM



GENERAL SHEET NOTES

- 1. TEAM TO PROVIDE 2" ELECTRICAL CONDUIT TO ATTACH TO DOE ELECTRICAL SOURCE
- 2. 4" OPENING IN POTABLE WATER TANK ON NORTH SIDE FOR WATER DELIVERY

REFERENCE KEYNOTES

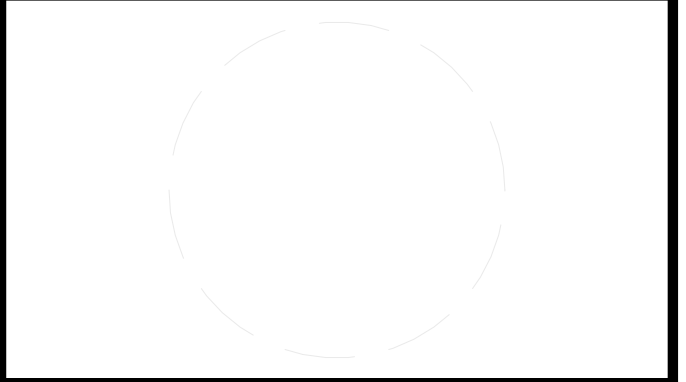
- 1 POTABLE WATER STORAGE 1500 GA. 22 12 19
- 2 WASTE WATER STORAGE 500 GA. EACH
- 3 HEAT PUMP
- 4 DOE ELECTRICAL UTILITY PANEL

SHEET KEYNOTES



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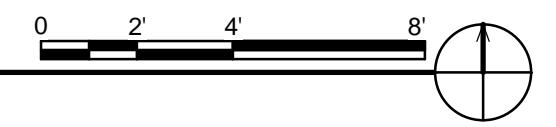
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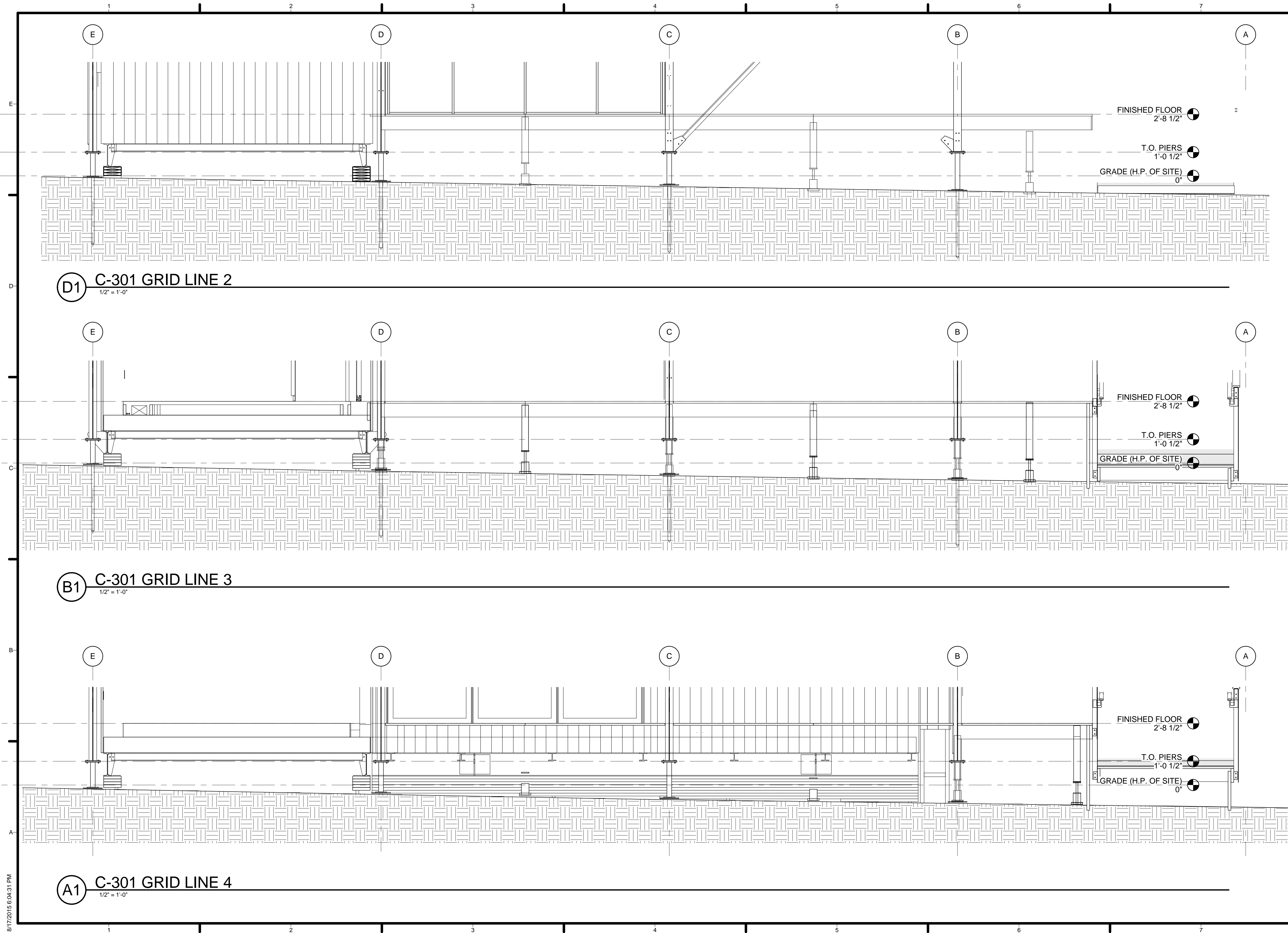
SHEET TITLE
SITE UTILITY PLAN

C-103

B2 C-103 SITE UTILITY PLAN
 1/4" = 1'-0"



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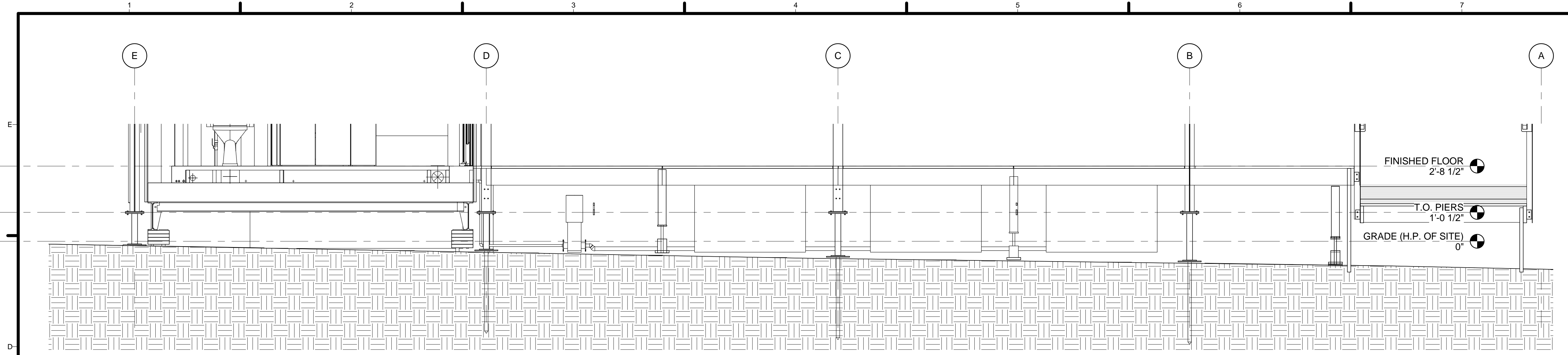
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CONSTRUCTION DOCUMENTS
 SHEET TITLE

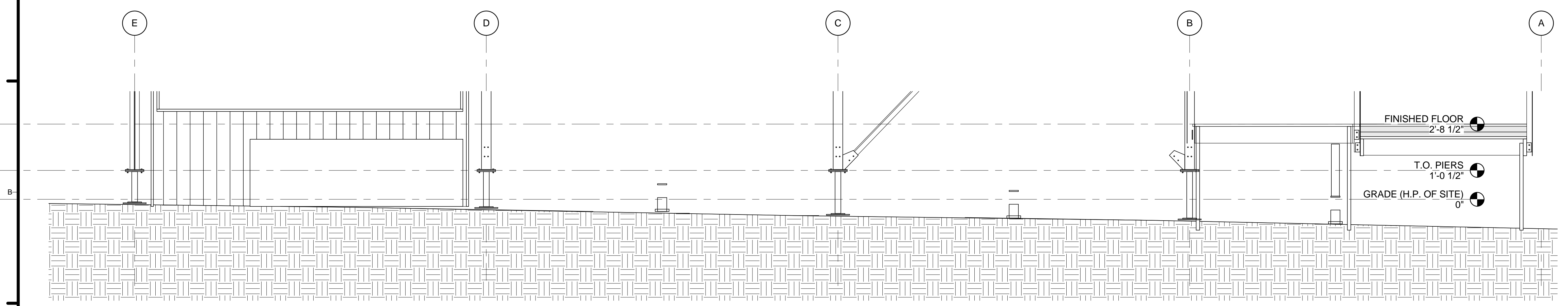
GROUND CONTACT
 SECTIONS

C-301

8/17/2015 6:04:31 PM



1 C-302 GRID LINE 5
1/2" = 1'-0"



2 C-302 GRID LINE 6
1/2" = 1'-0"

8/17/2015 6:04:33 PM



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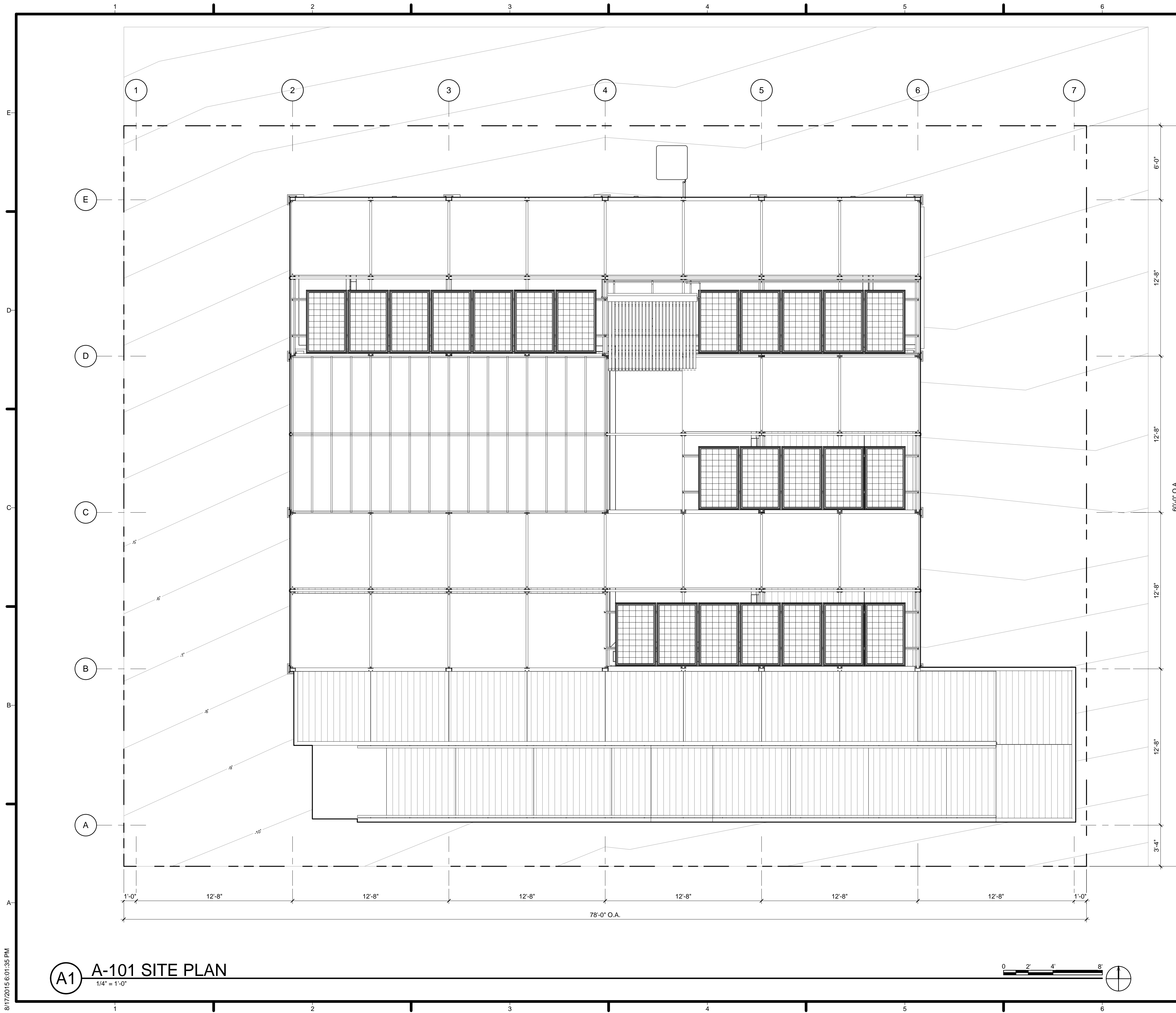


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GROUND CONTACT SECTIONS

C-302



A1 A-101 SITE PLAN
1/4" = 1'-0"

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GENERAL SHEET NOTES

REFERENCE KEYNOTES

SHEET KEYNOTES



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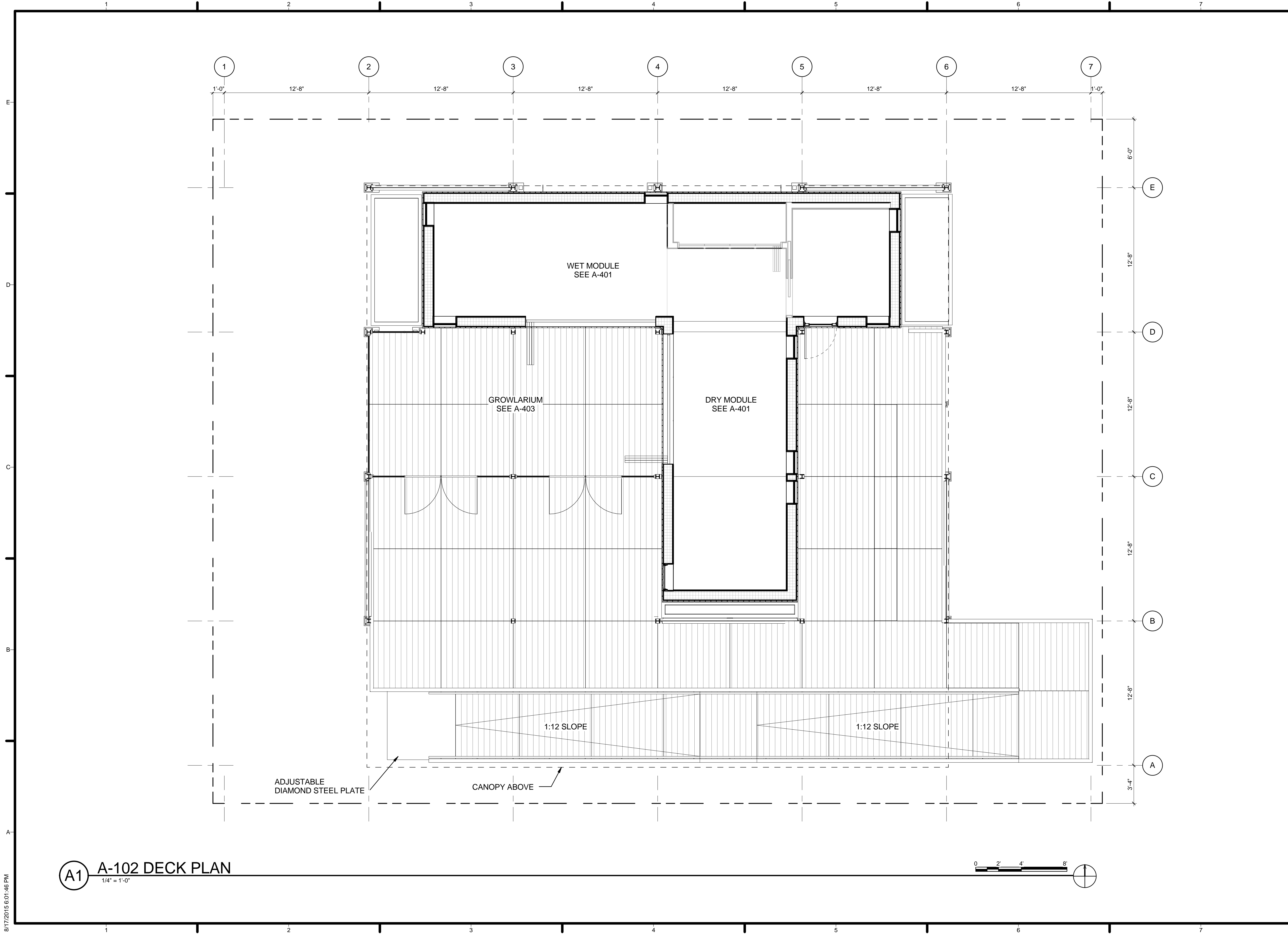
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SITE PLAN

A-101



A1 A-102 DECK PLAN
 1/4" = 1'-0"

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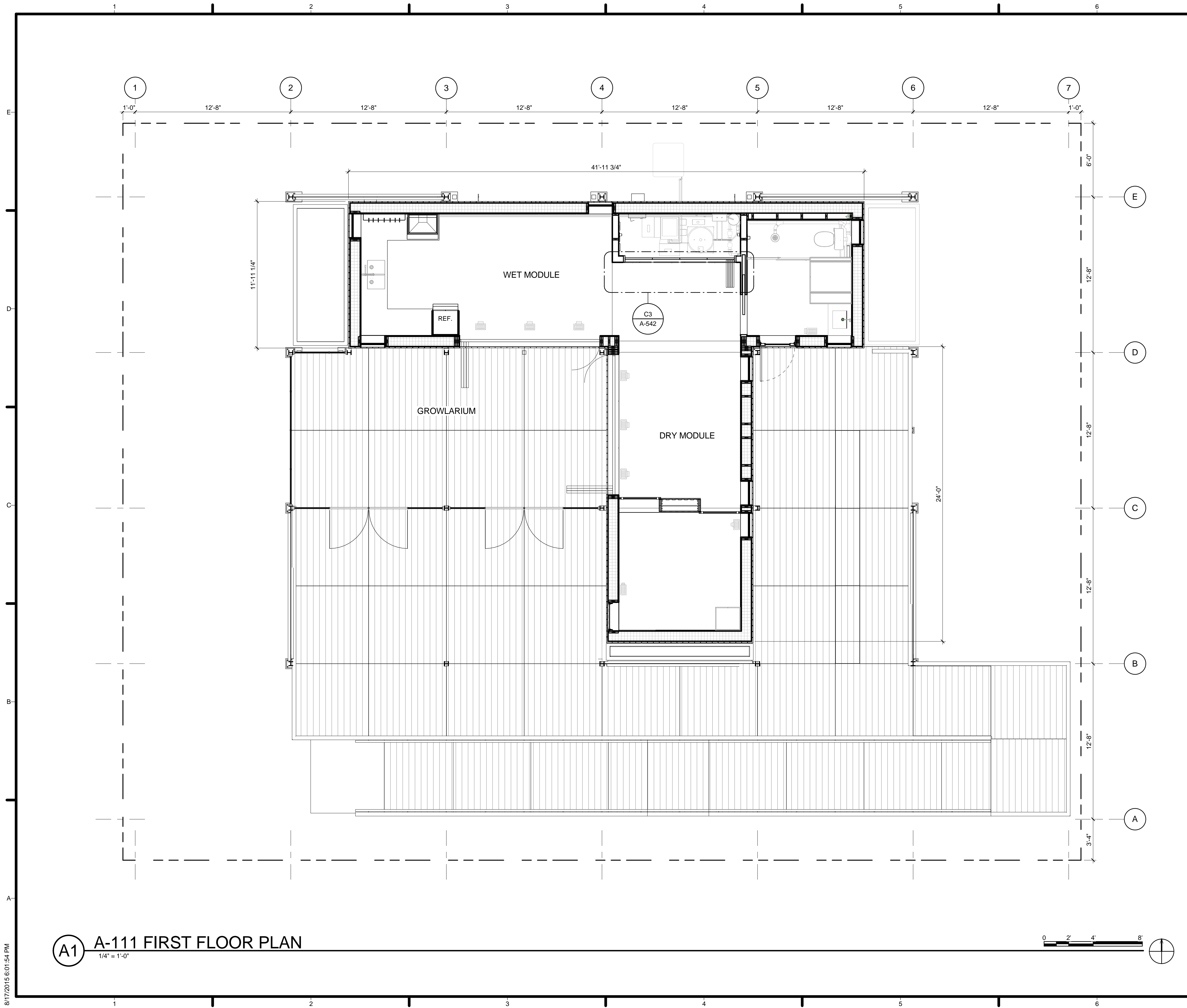


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 SHEET TITLE

DECK PLAN

A-102

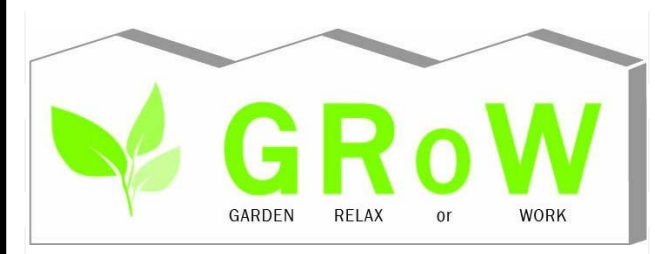


A1 A-111 FIRST FLOOR PLAN
1/4" = 1'-0"

GENERAL SHEET NOTES

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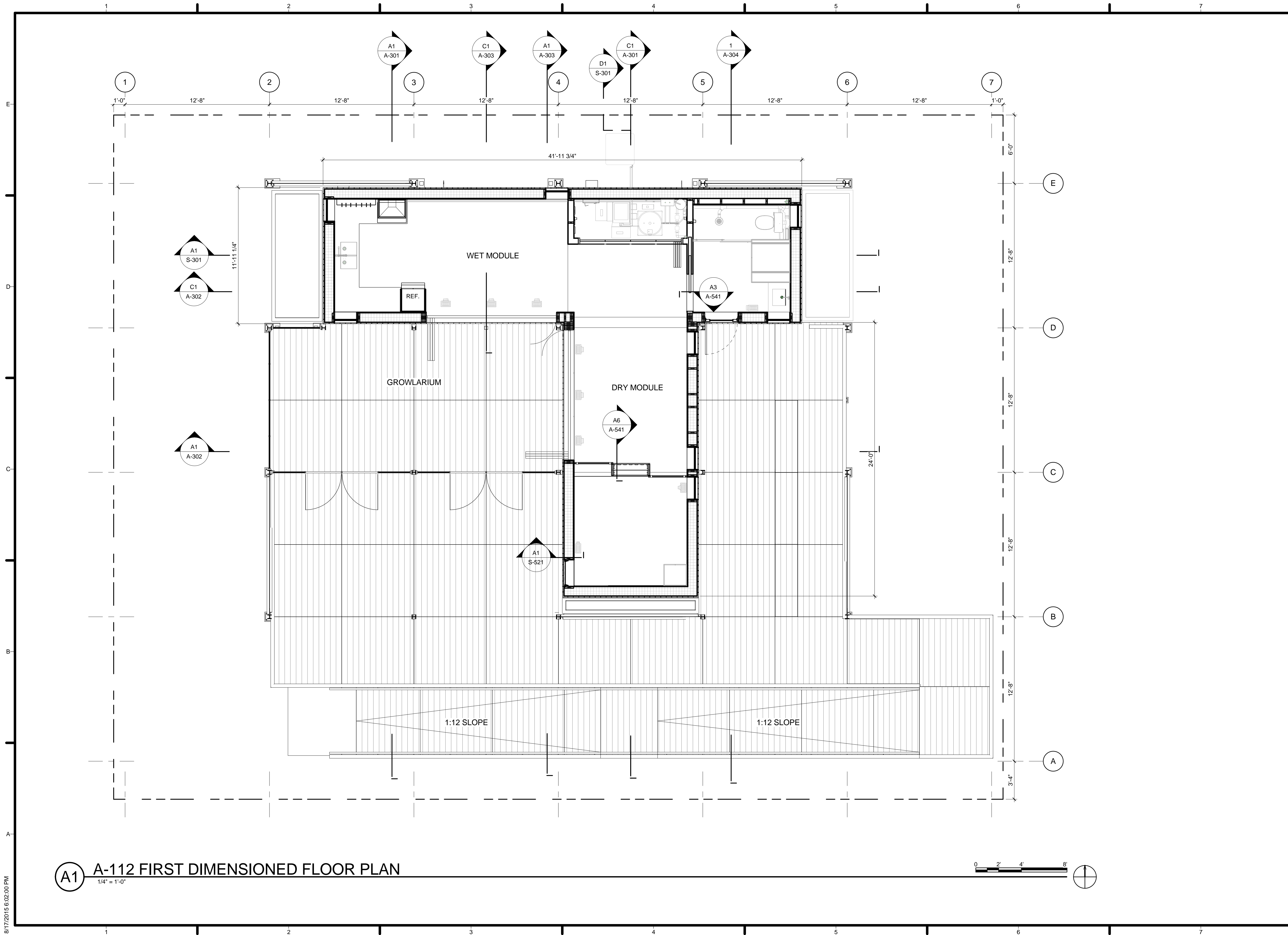
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FIRST FLOOR PLAN

A-111

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(A1) A-112 FIRST DIMENSIONED FLOOR PLAN
 1/4" = 1'-0"



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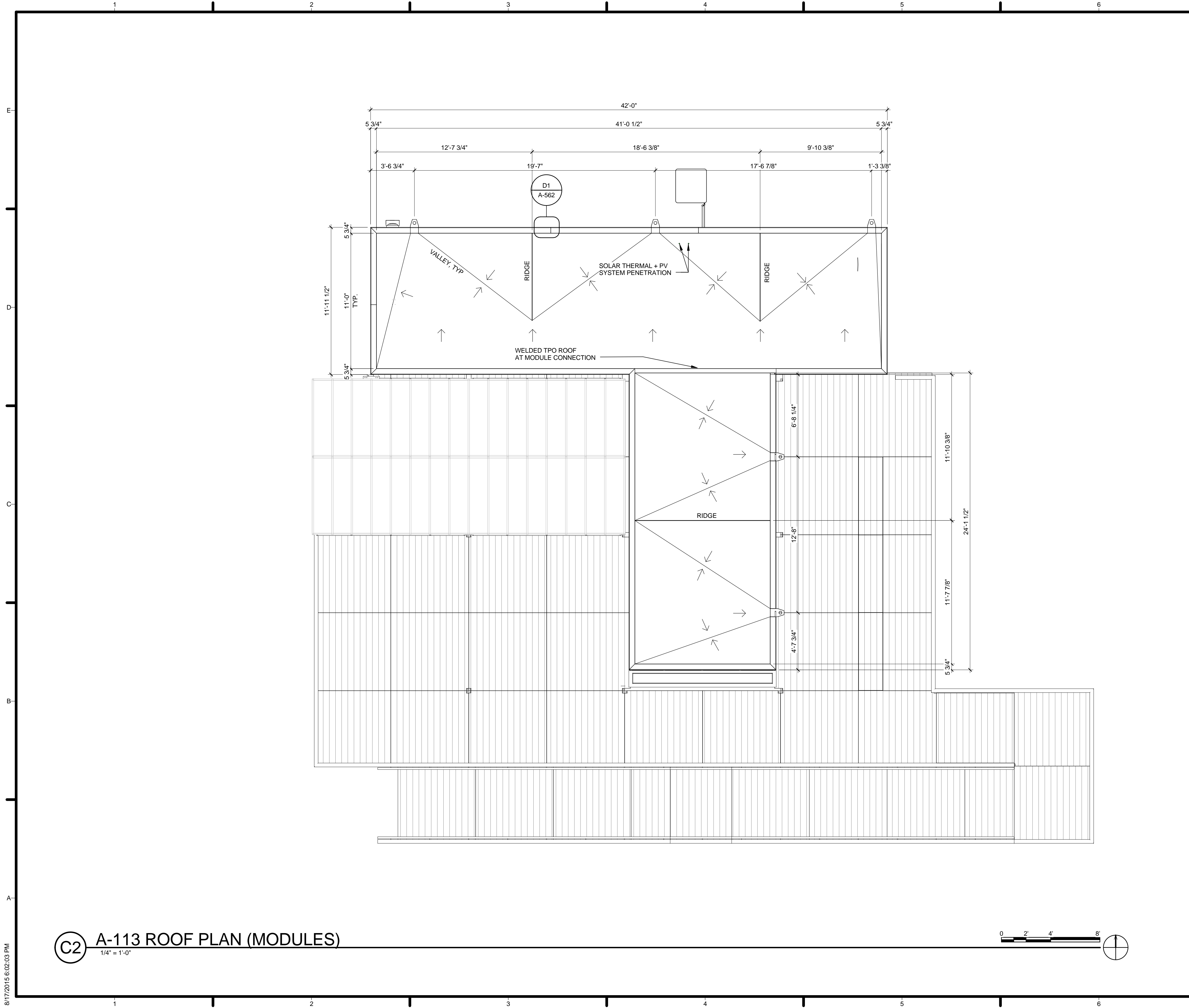
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**FIRST FLOOR
 DIMENSIONED PLAN**

A-112

8/17/2015 6:02:00 PM



GENERAL SHEET NOTES

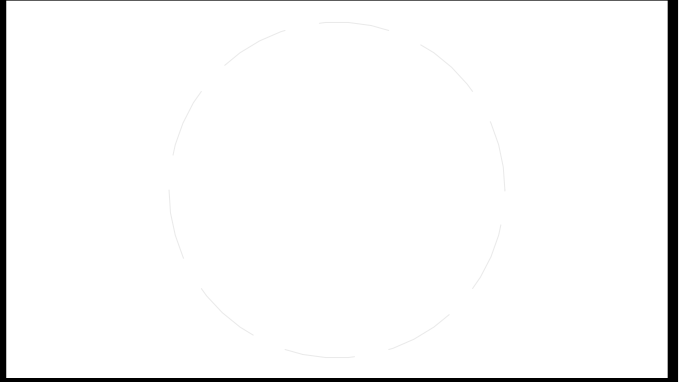
REFERENCE KEYNOTES

SHEET KEYNOTES



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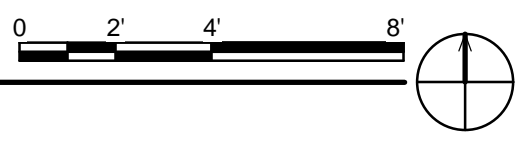
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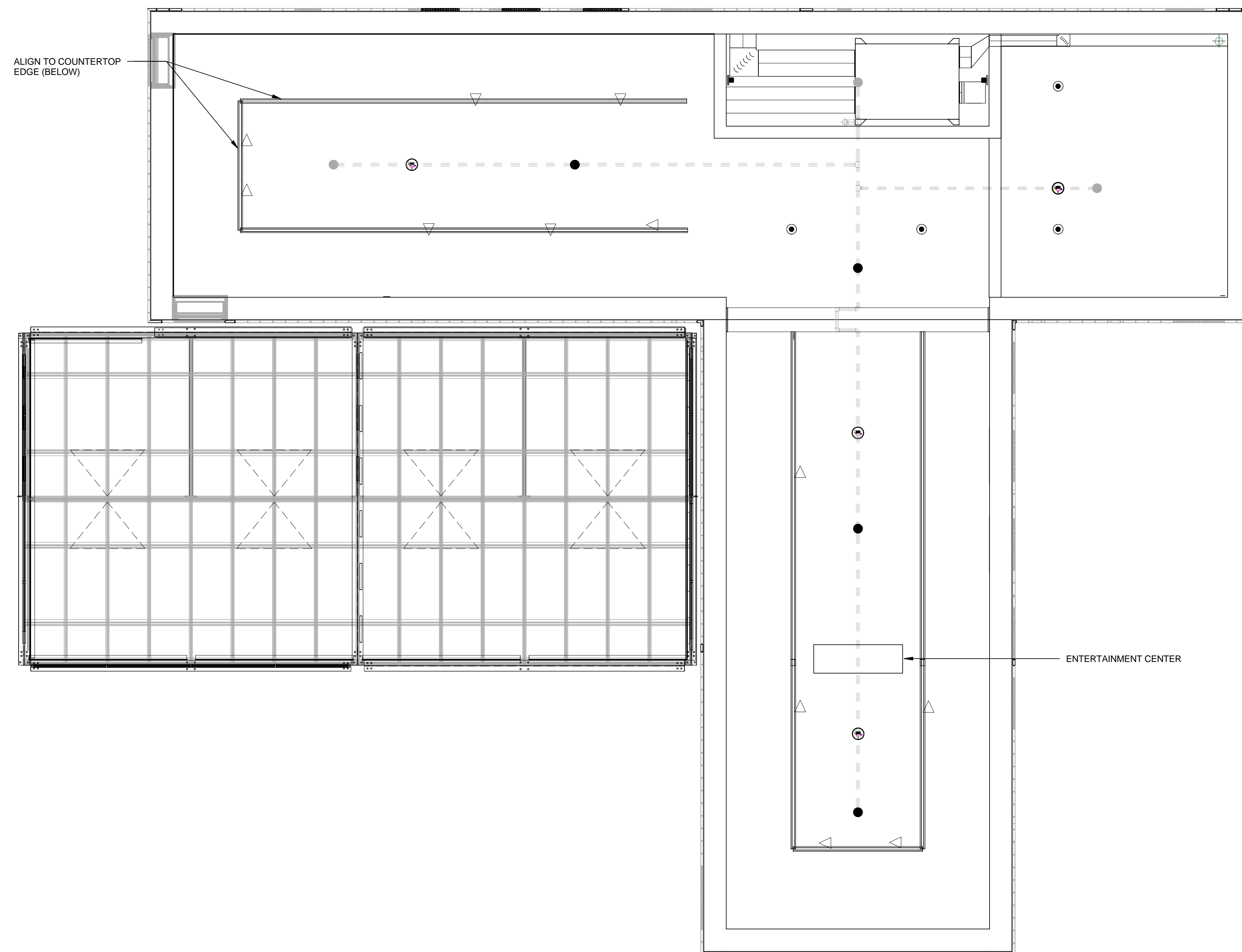
SHEET TITLE

ROOF PLAN (MODULES)

A-113

C2 A-113 ROOF PLAN (MODULES)
 1/4" = 1'-0"





CEILING PLAN LEGEND

- SMOKE DETECTOR
- LIGHTING TRACK
- TRACK LIGHT
- FIRE SPRINKLER

CEILING PLAN LEGEND

3/8" = 1'-0"

B3 A-121 FIRST FLOOR CEILING



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FIRST FLOOR
 REFLECTED CEILING
 PLAN

A-121

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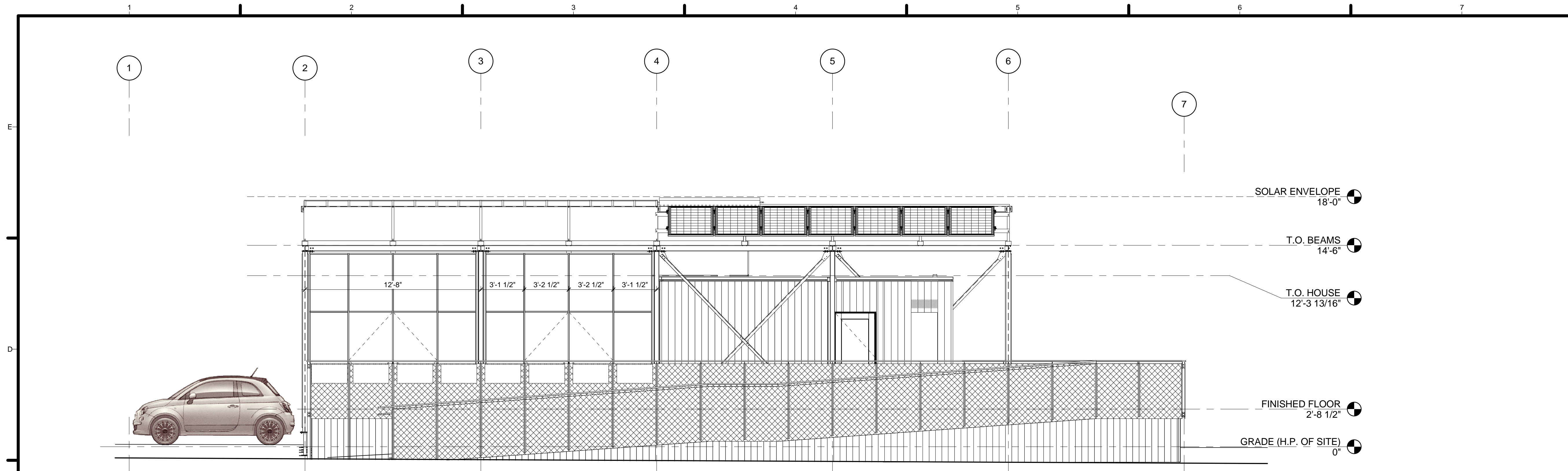


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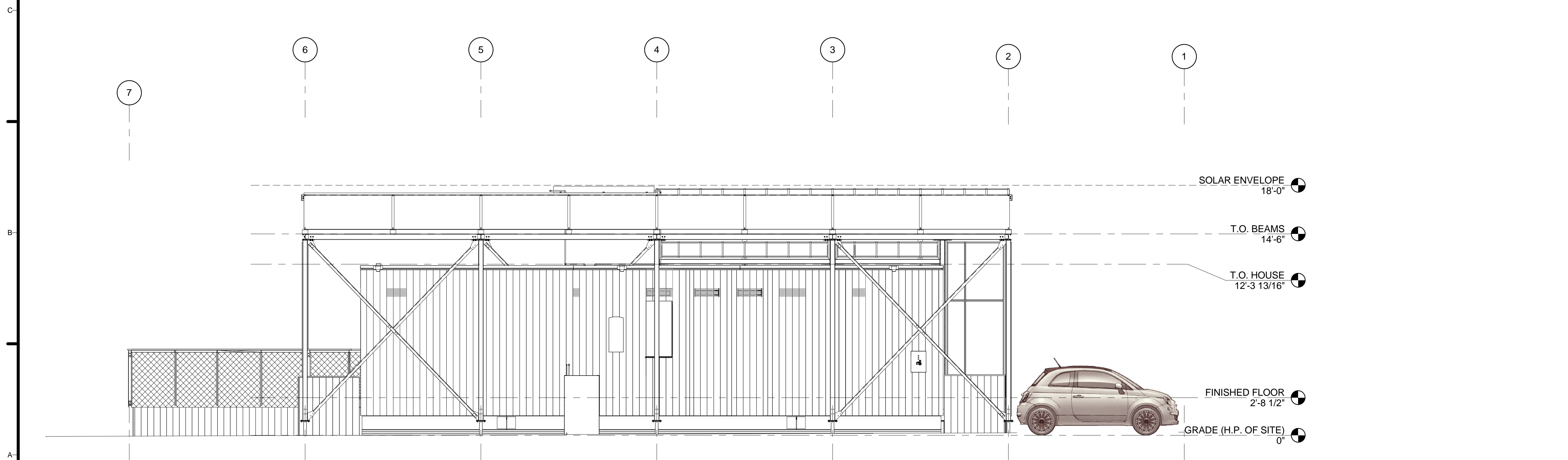
CONSTRUCTION DOCUMENTS
 SHEET TITLE

SITE ELEVATIONS

A-201



C1 A-201 SOUTH ELEVATION SITE
 1/4" = 1'-0"



A1 A-201 NORTH ELEVATION SITE
 1/4" = 1'-0"





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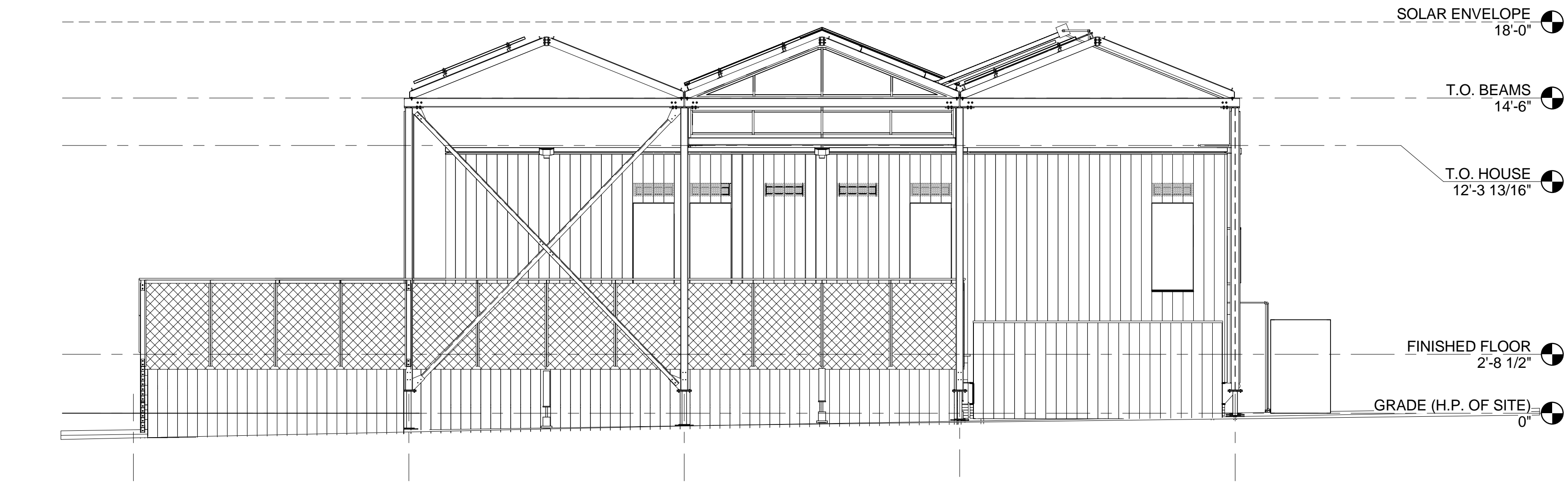
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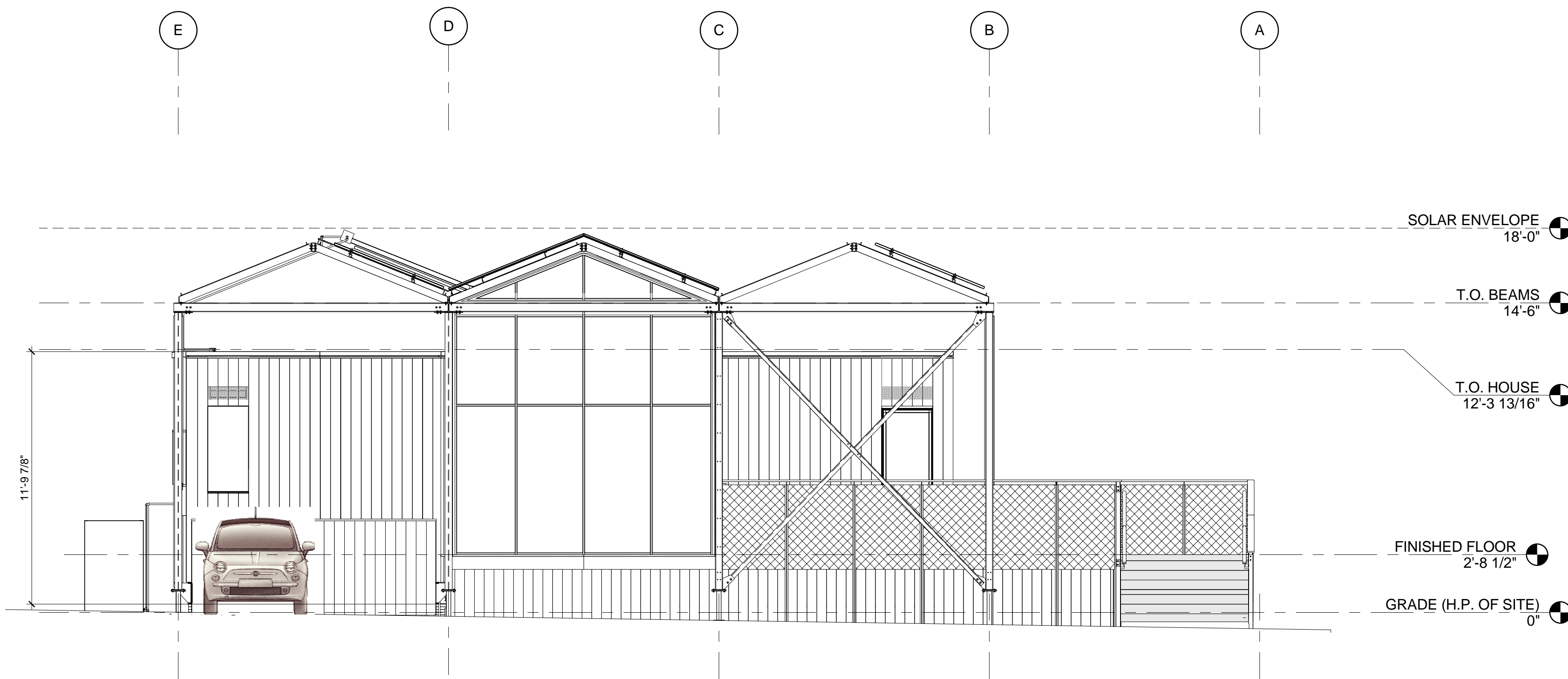
SHEET TITLE

SITE ELEVATIONS

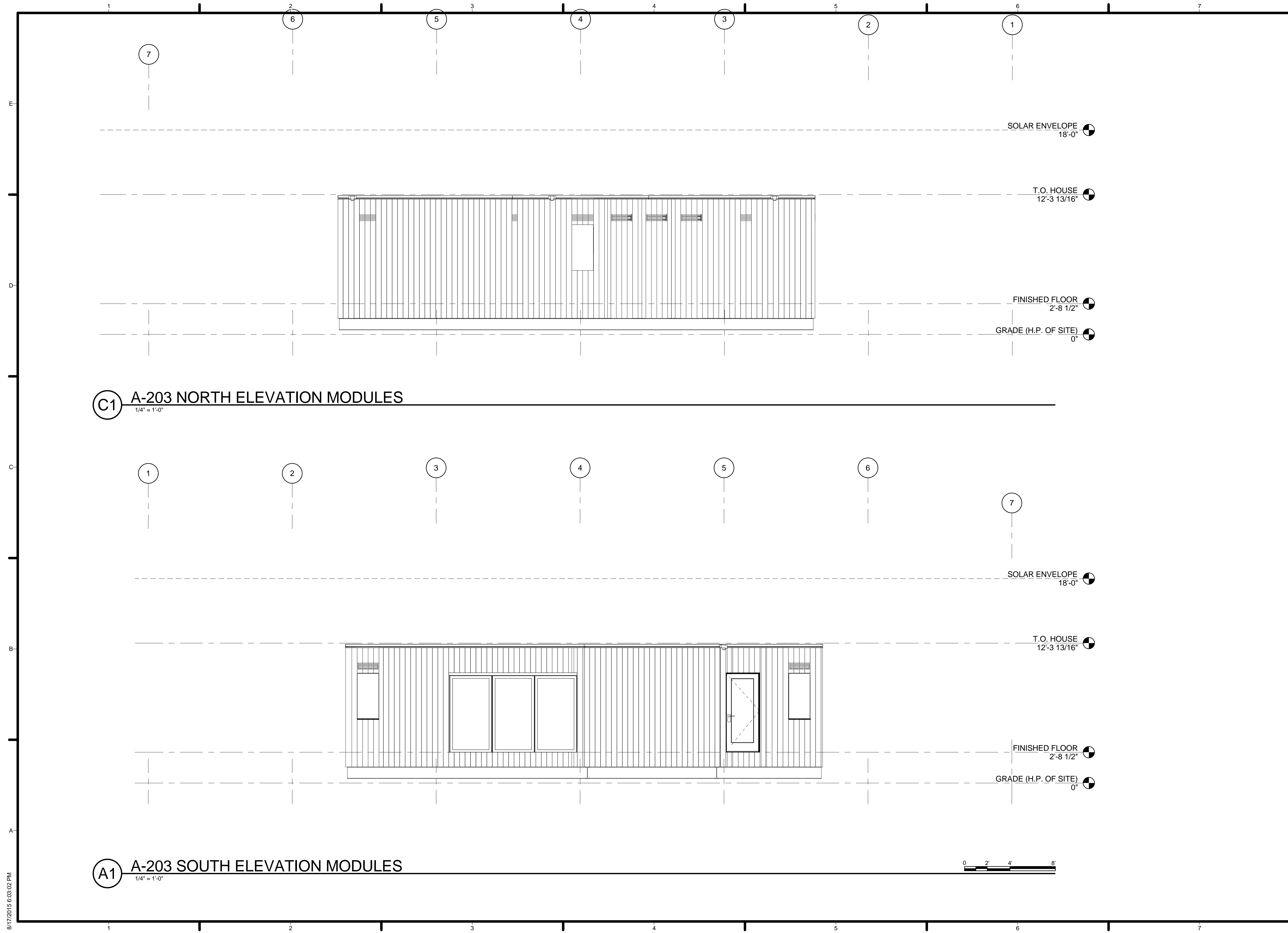
A-202



C1 A-202 EAST ELEVATION SITE
 1/4" = 1'-0"



A1 A-202 WEST ELEVATION SITE
 1/4" = 1'-0"



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SHEET TITLE
MODULE ELEVATIONS

A-203

A-203

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C1 A-204 EAST ELEVATION MODULES
1/4" = 1'-0"

A1 A-204 WEST ELEVATION MODULES
1/4" = 1'-0"



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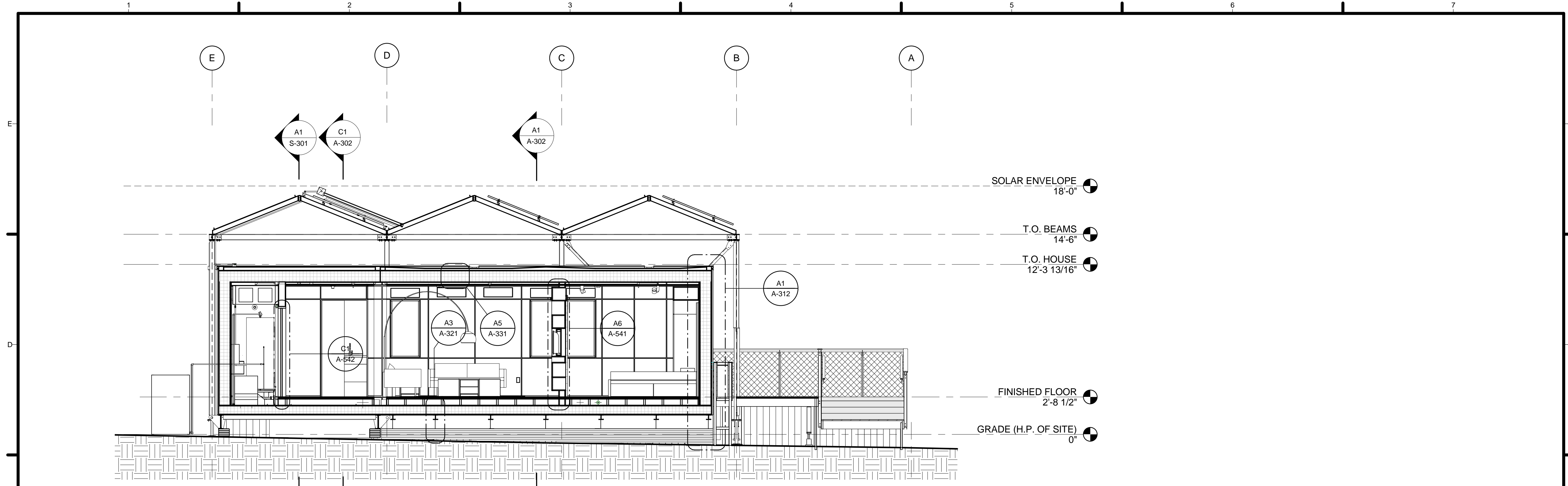
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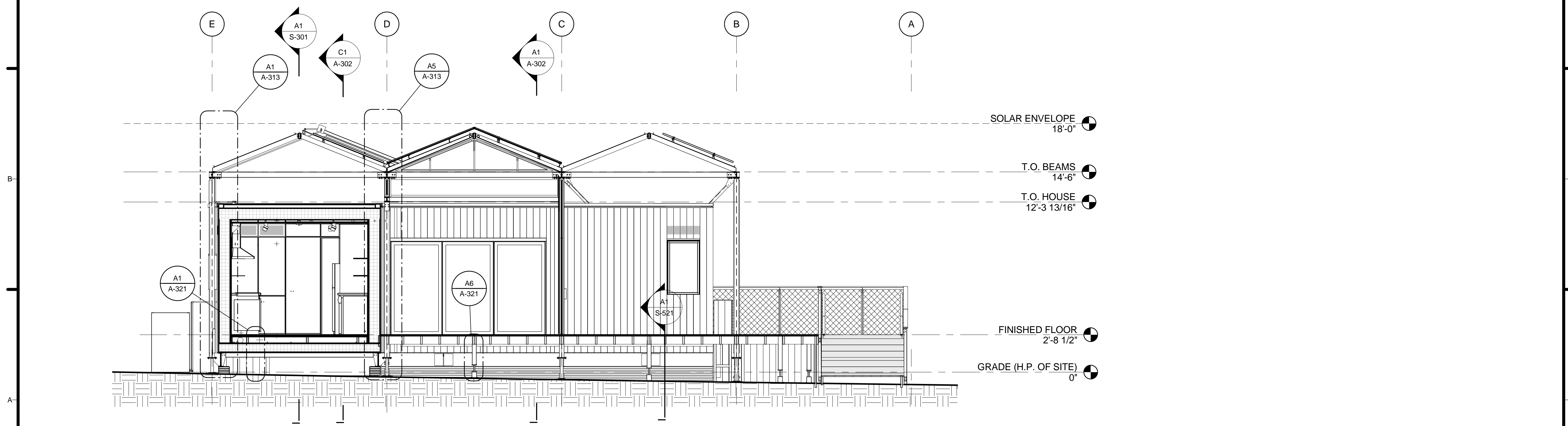
SHEET TITLE
MODULE ELEVATIONS

A-204

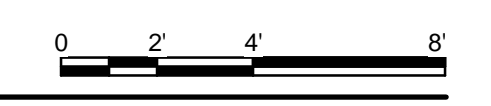
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C1 A-301 SECTION LOOKING EAST AT DRY MODULE
1/4" = 1'-0"

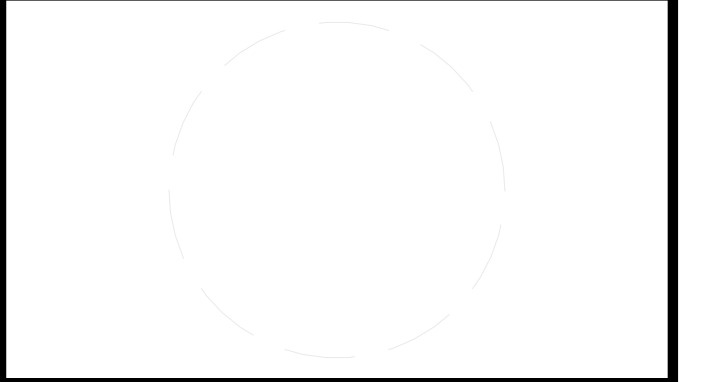


A1 A-301 SECTION LOOKING EAST AT WET MODULE
1/4" = 1'-0"



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CONSTRUCTION DOCUMENTS
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BUILDING SECTIONS

A-301



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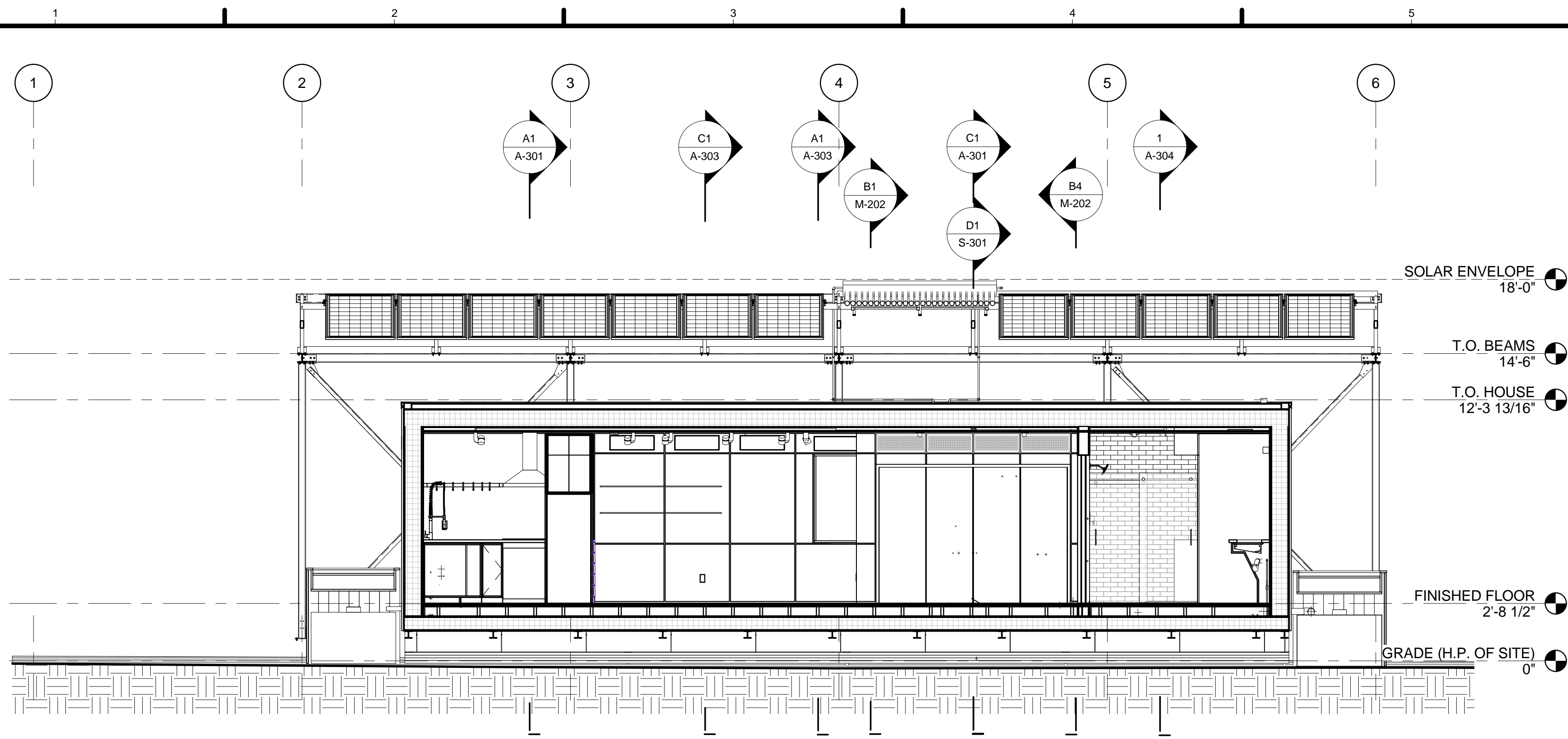
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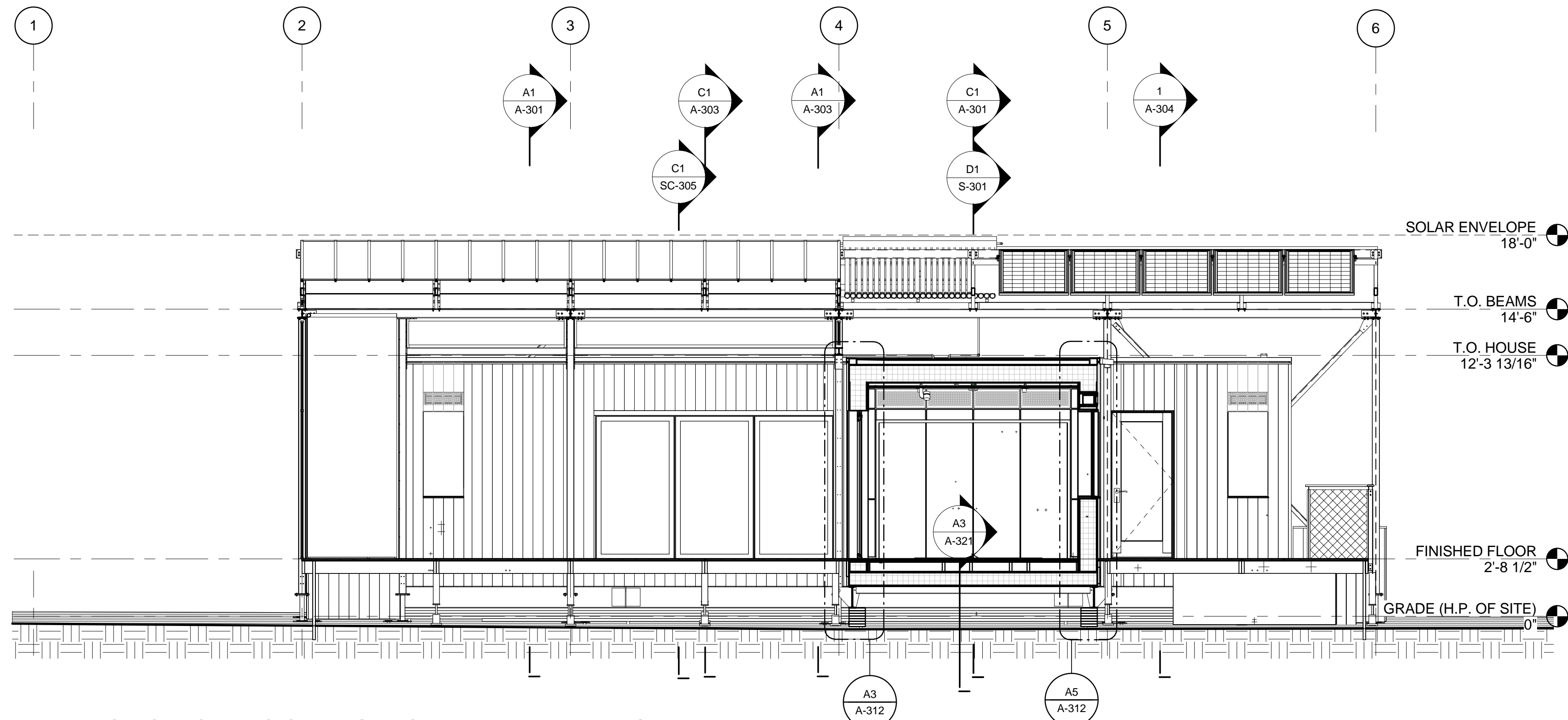
CONSTRUCTION DOCUMENTS
 SHEET TITLE

BUILDING SECTIONS

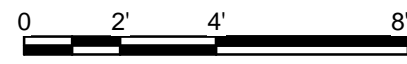
A-302

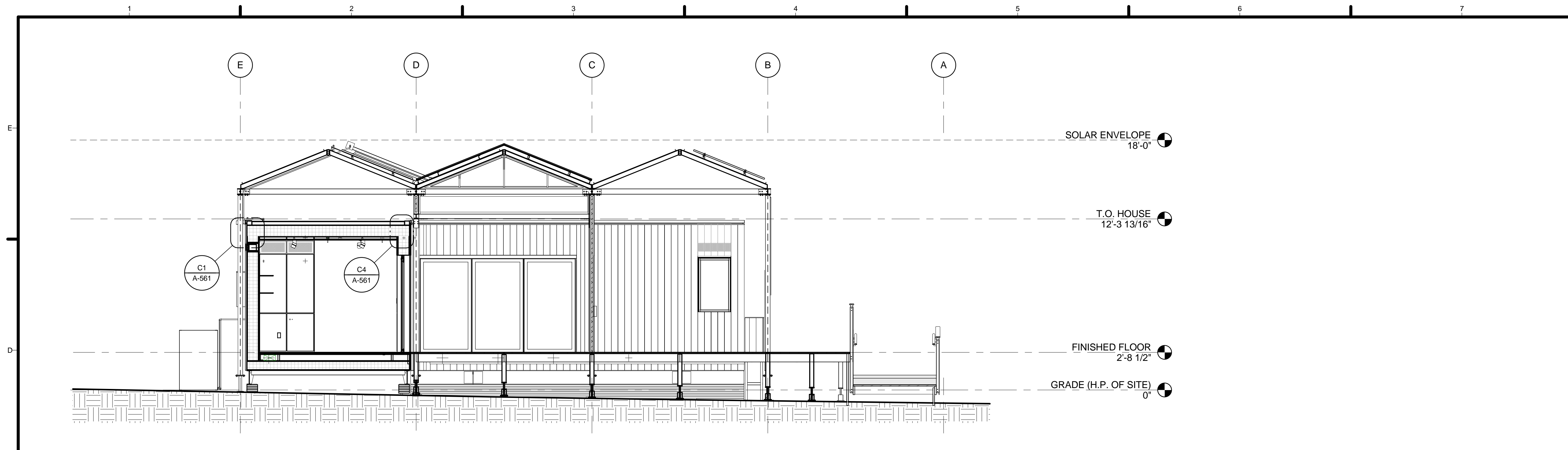


C1 A-302 SECTION LOOKING NORTH AT WET MODULE
 1/4" = 1'-0"



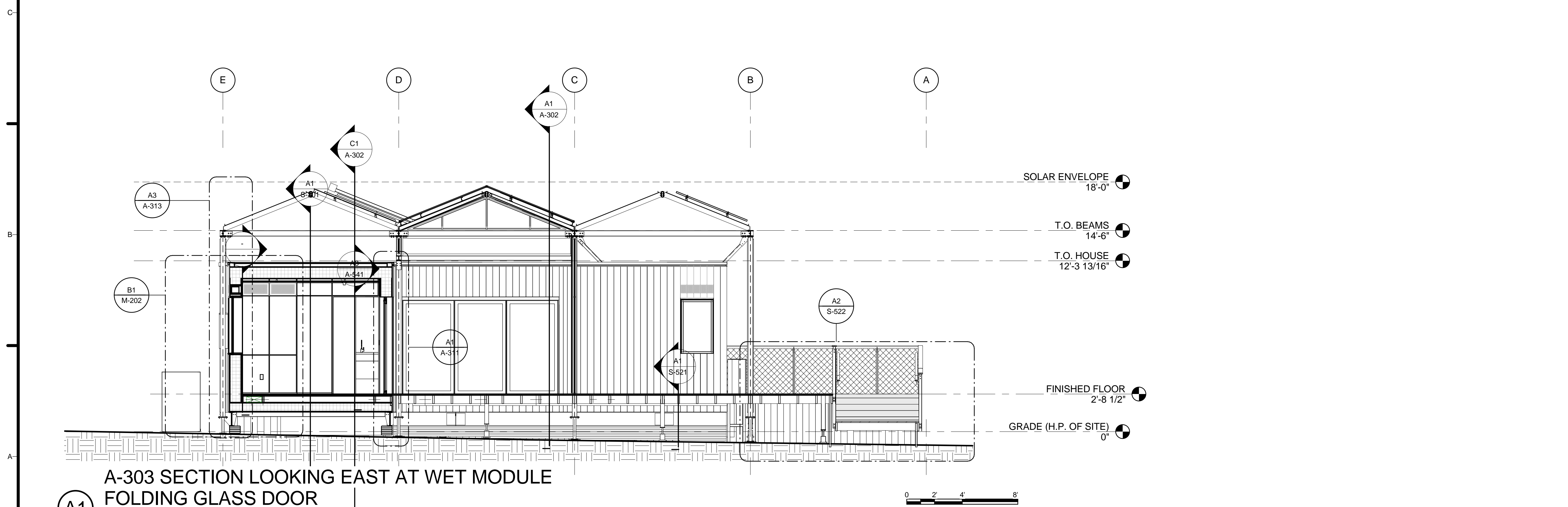
A1 A-302 SECTION LOOKING NORTH AT DRY MODULE
 1/4" = 1'-0"





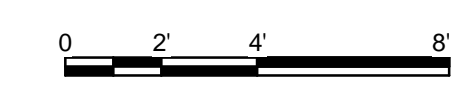
A-303 SECTION LOOKING EAST AT WET MODULE THROUGH SCUPPER

C1
1/4" = 1'-0"



A-303 SECTION LOOKING EAST AT WET MODULE FOLDING GLASS DOOR

A1
1/4" = 1'-0"



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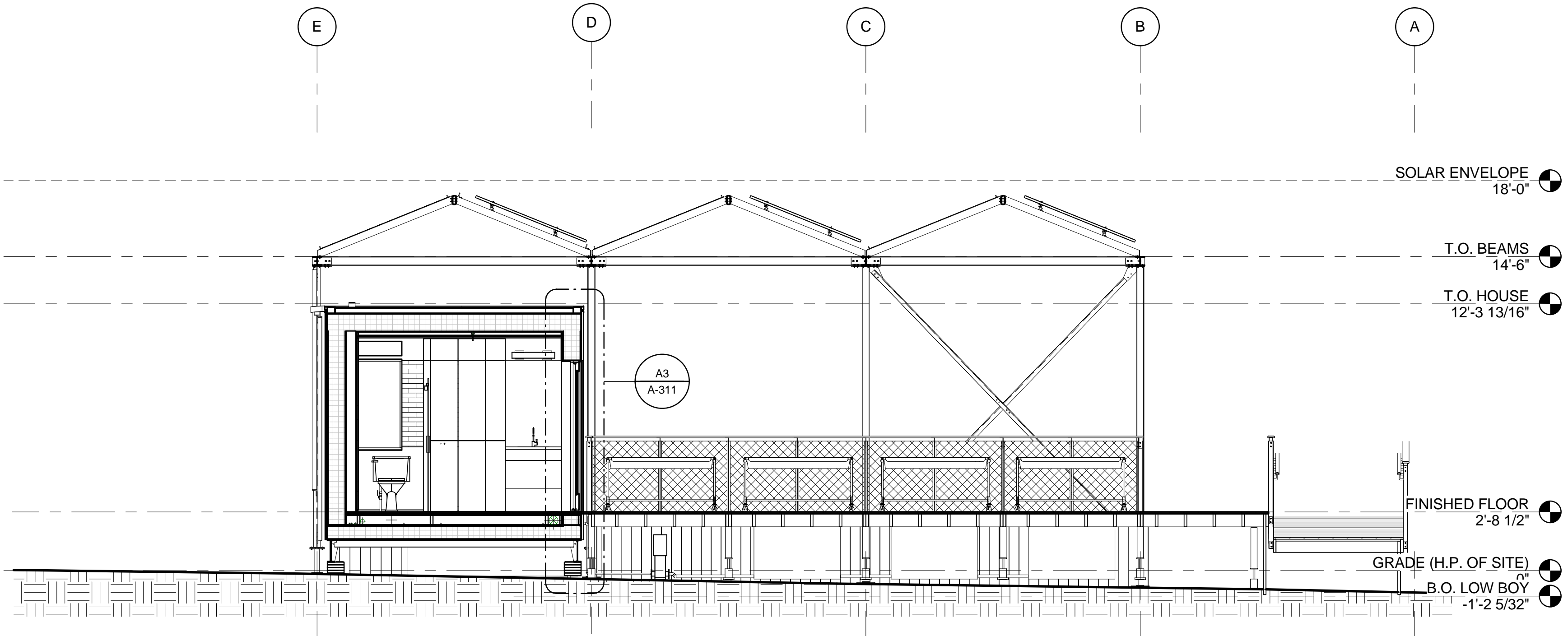


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BUILDING SECTIONS

A-303



1 A-304 BUILDING SECTION
1/4" = 1'-0"



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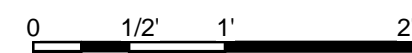
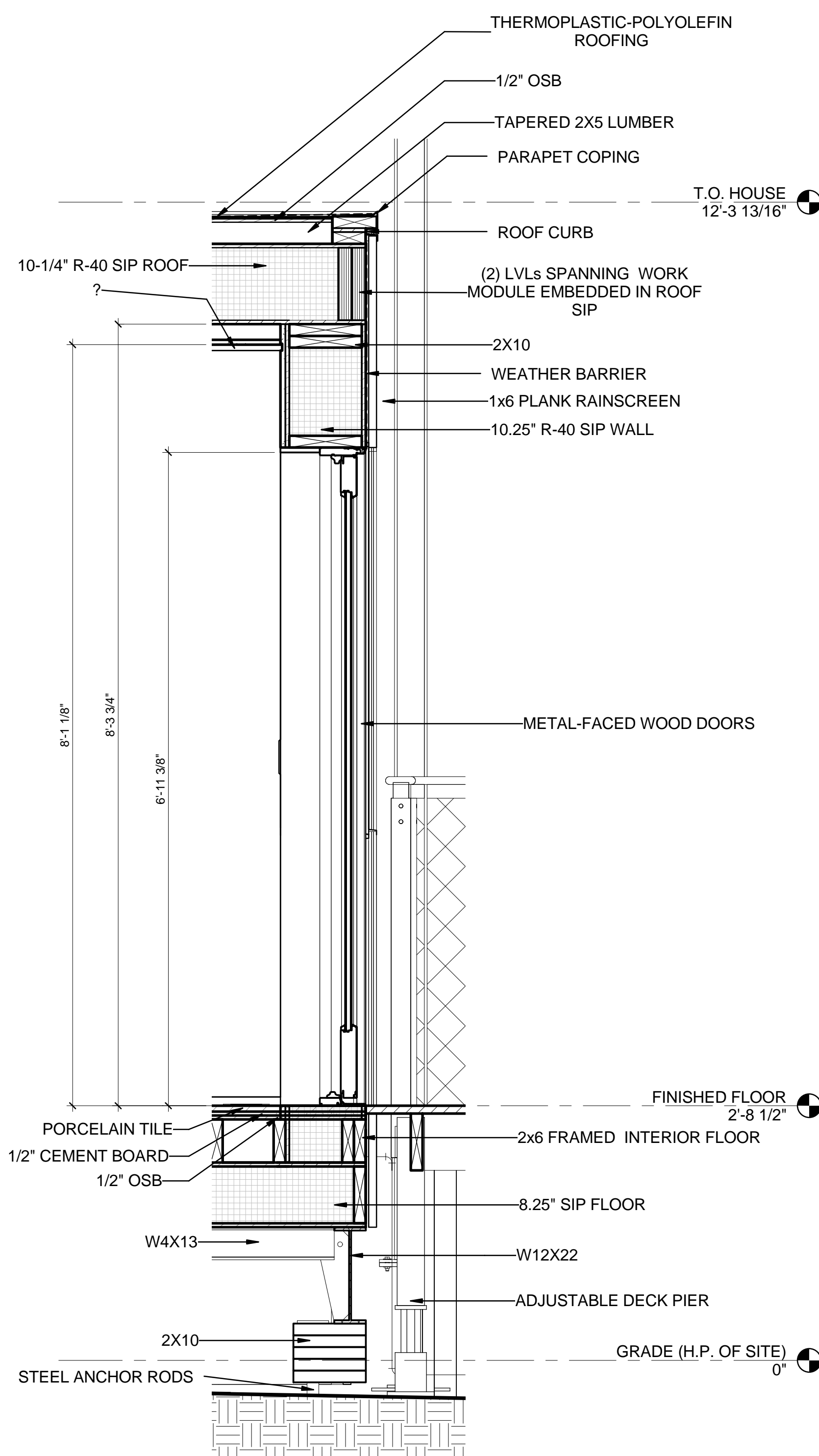
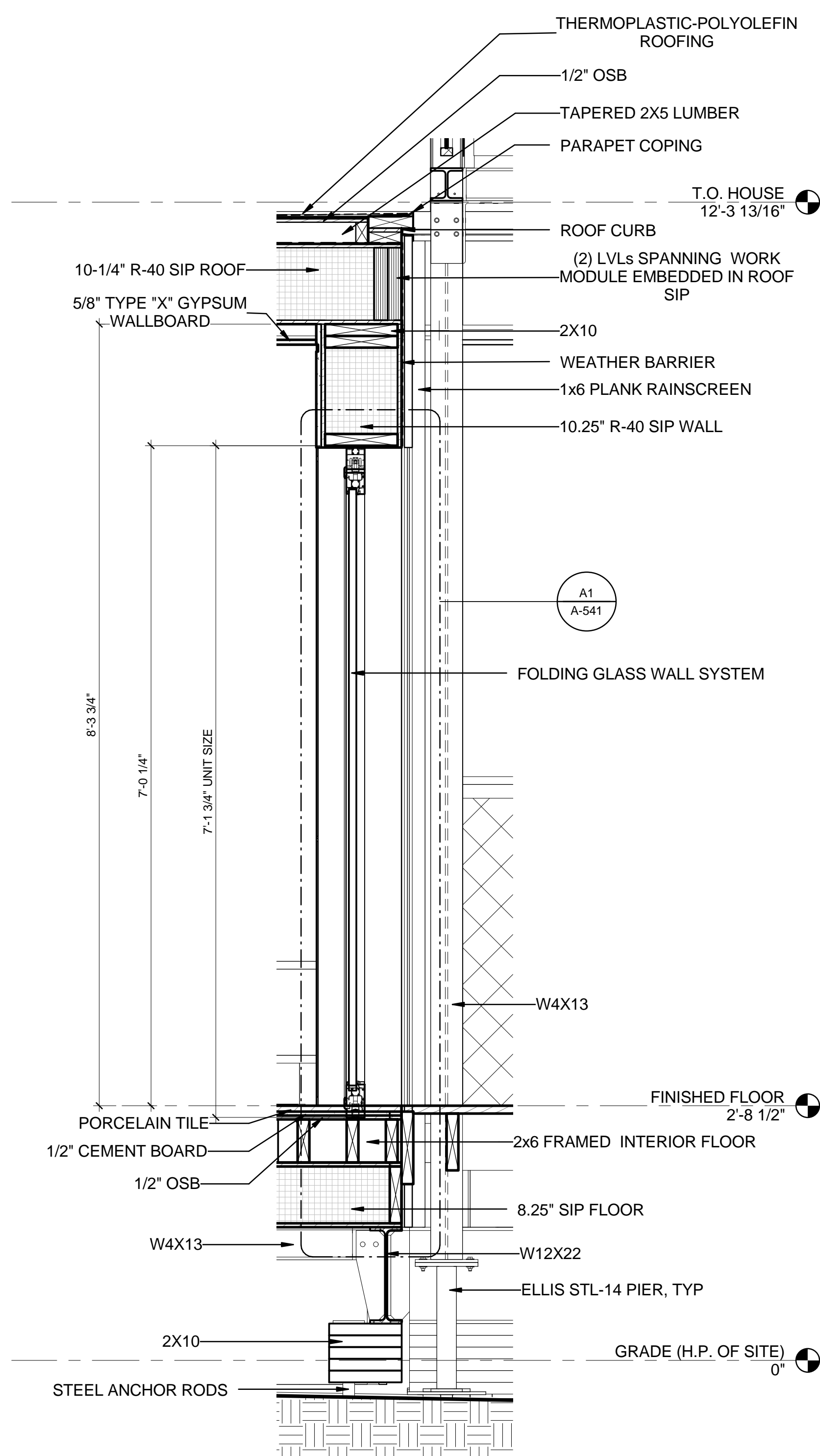
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SHEET TITLE

WALL SECTIONS

A-311





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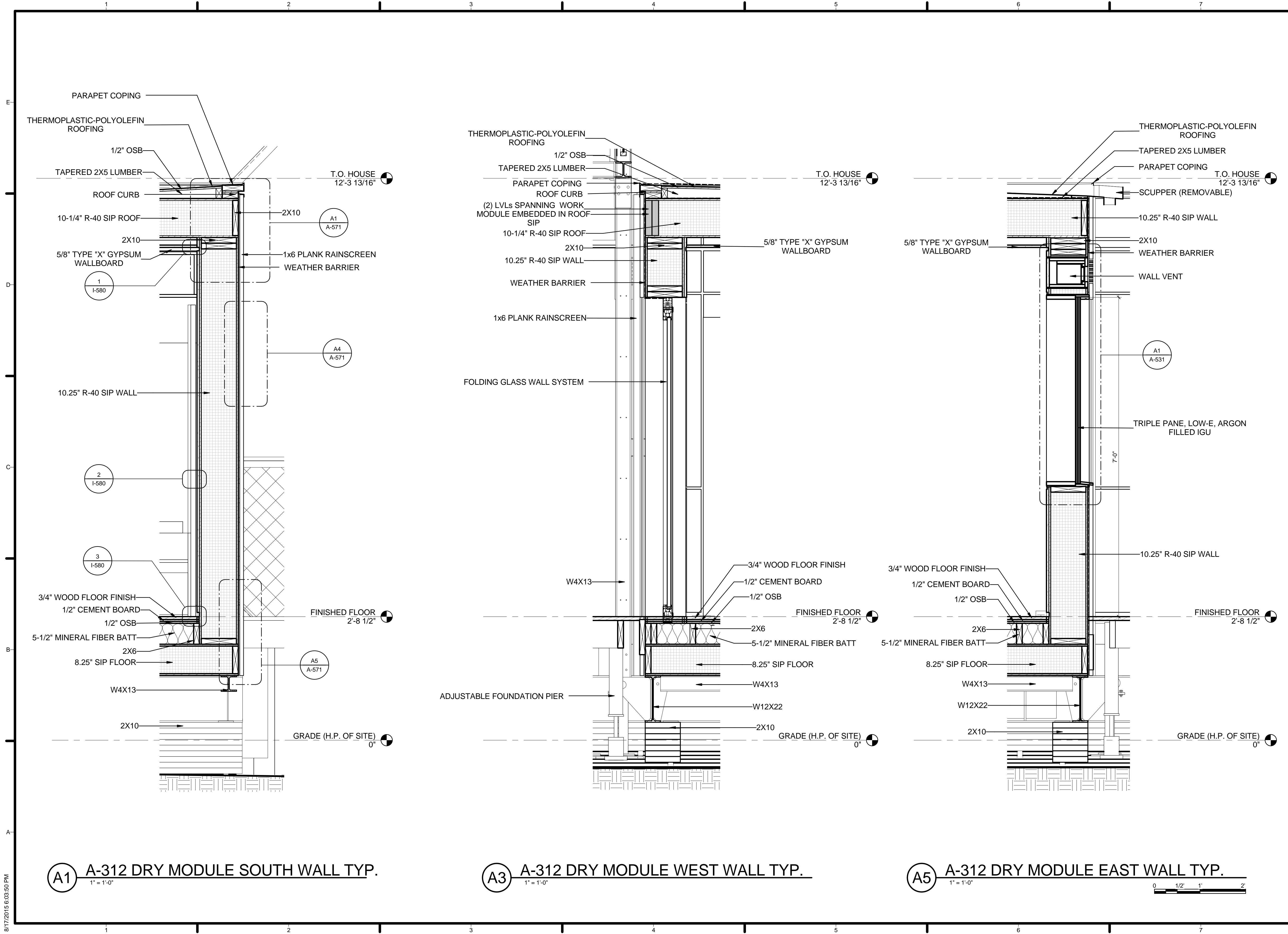
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WALL SECTIONS

A-312



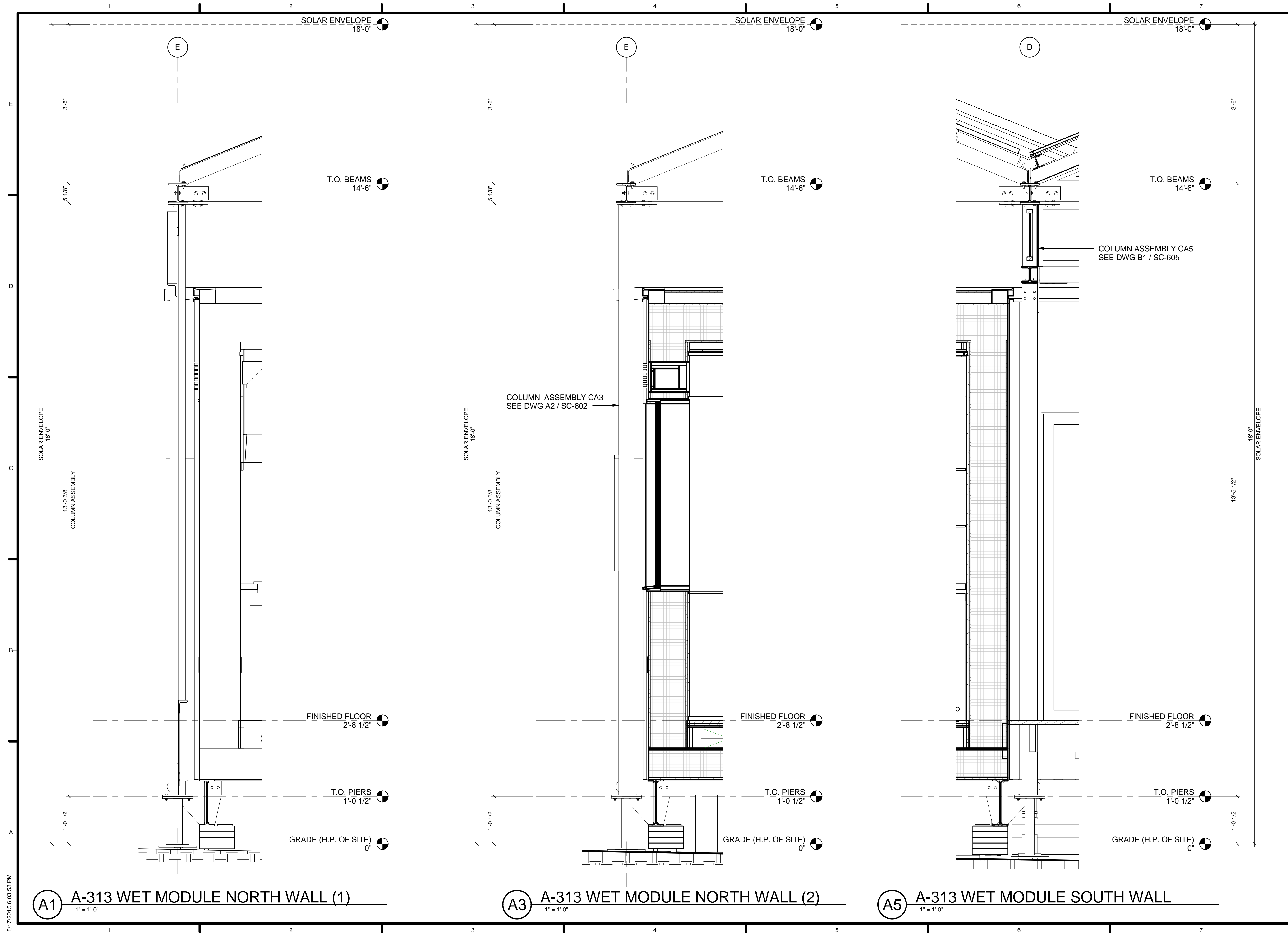
A1 A-312 DRY MODULE SOUTH WALL TYP.
1" = 1'-0"

A3 A-312 DRY MODULE WEST WALL TYP.
1" = 1'-0"

A5 A-312 DRY MODULE EAST WALL TYP.
1" = 1'-0"



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A1 A-313 WET MODULE NORTH WALL (1)
1" = 1'-0"

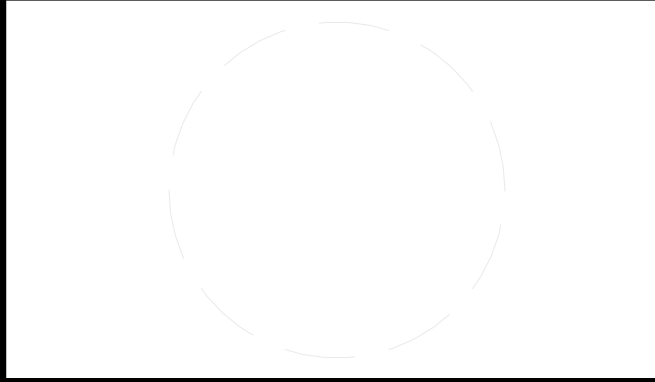
A3 A-313 WET MODULE NORTH WALL (2)
1" = 1'-0"

A5 A-313 WET MODULE SOUTH WALL
1" = 1'-0"



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WALL SECTIONS +
 CANOPY STRUCTURE

A-313



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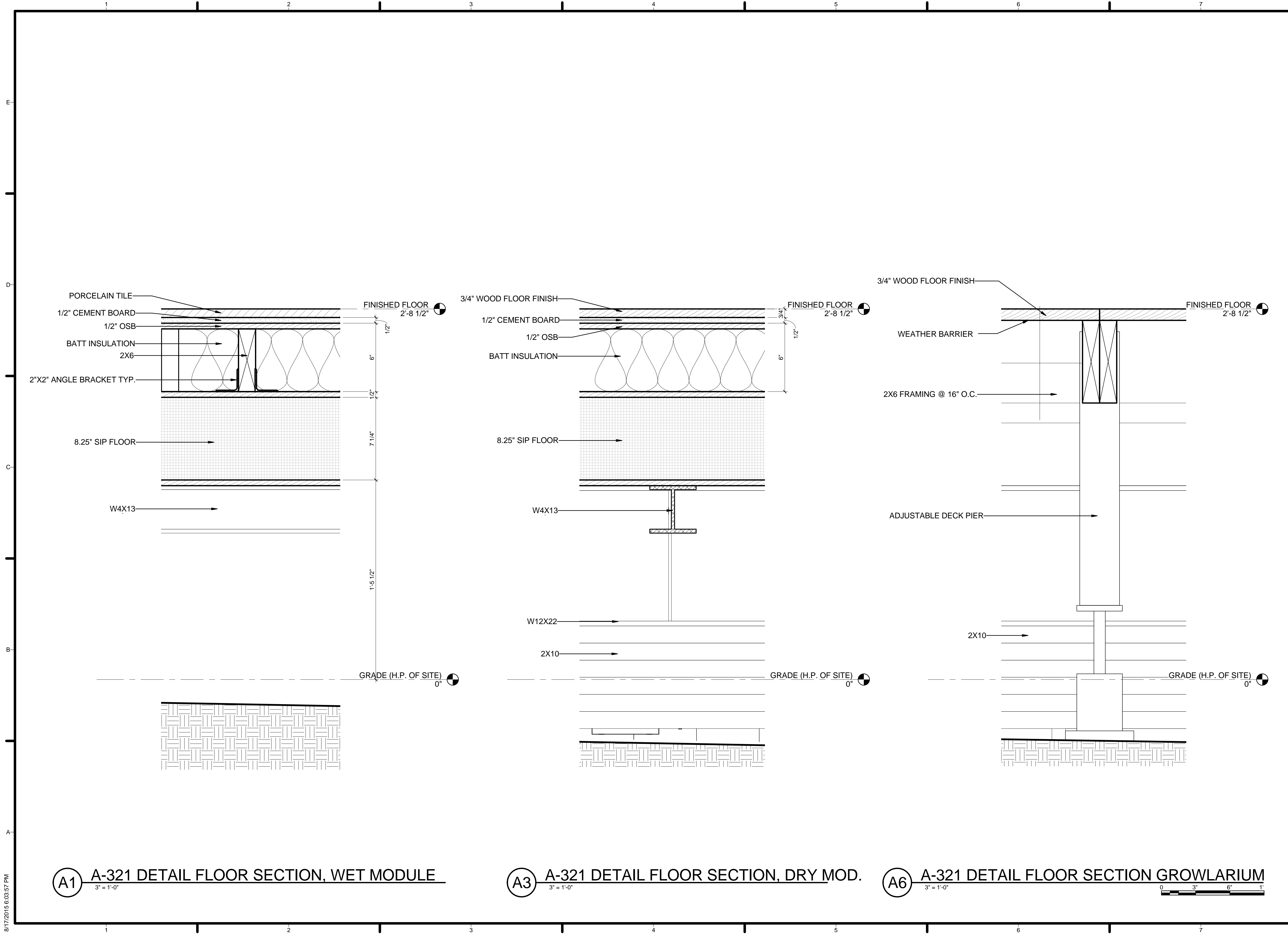


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SHEET TITLE
FLOOR SECTIONS

A-321



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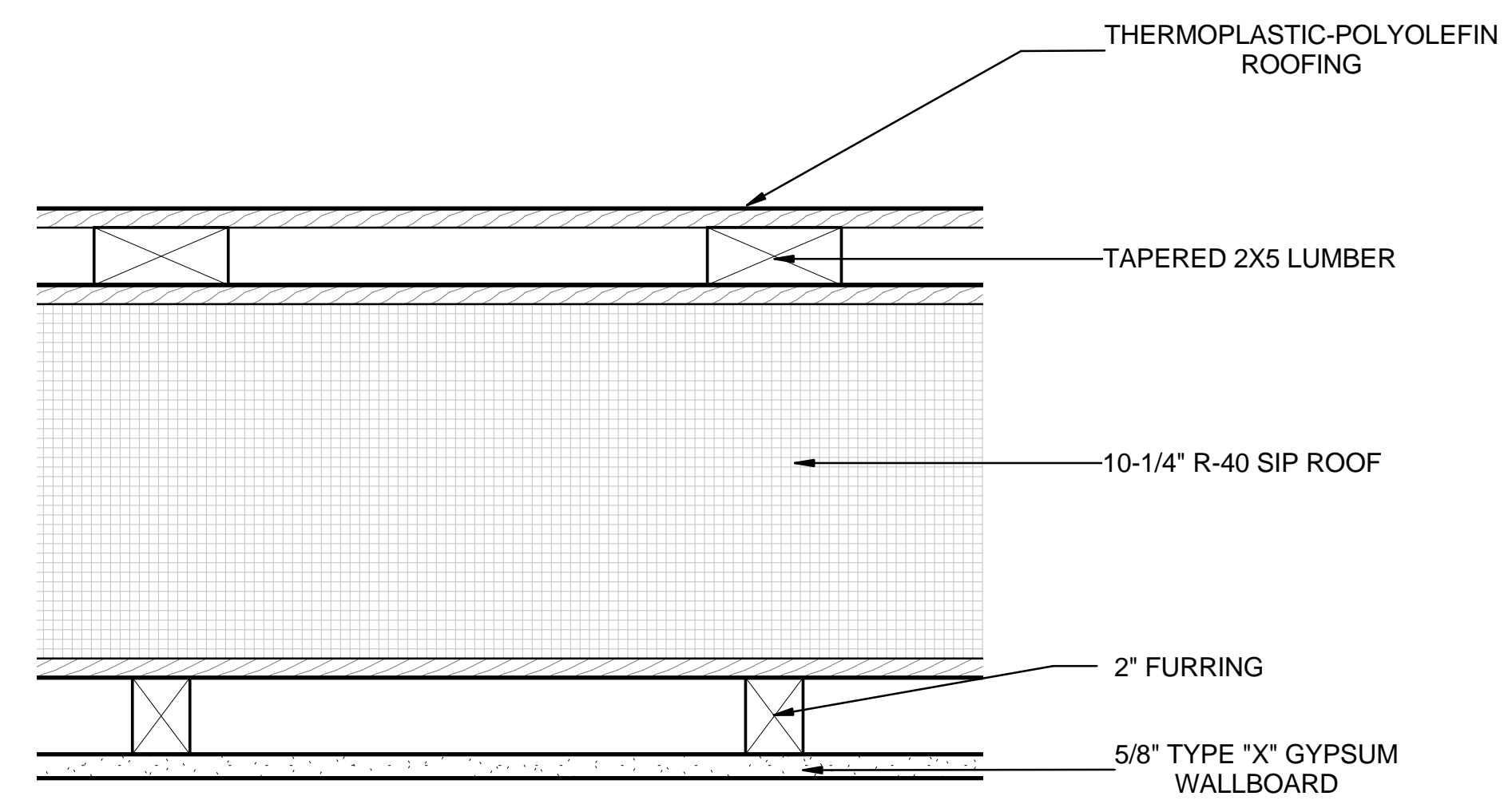
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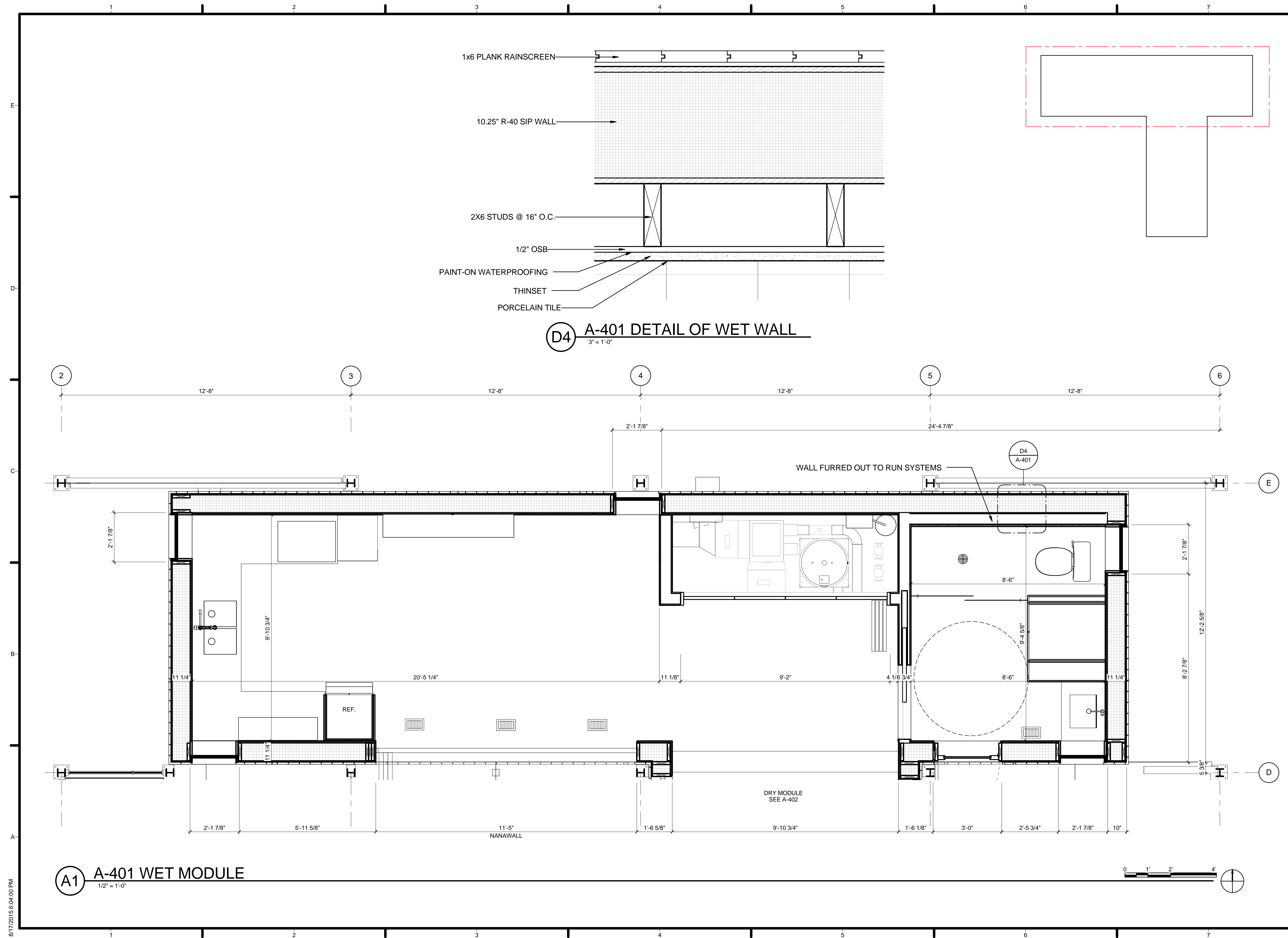
CEILING SECTION

A-331



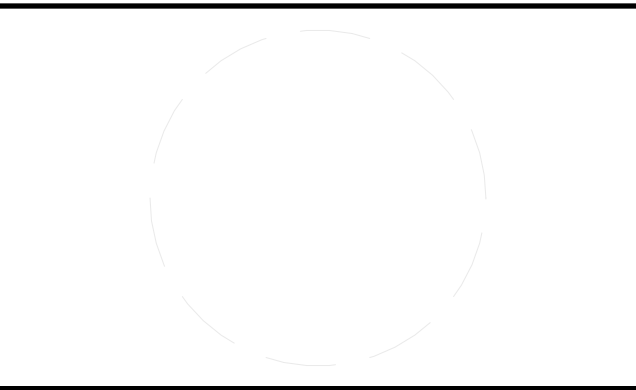
A5 A-331 DETAIL CEILING SECTION, TYP.
3" = 1'-0" 0 3' 6' 1'

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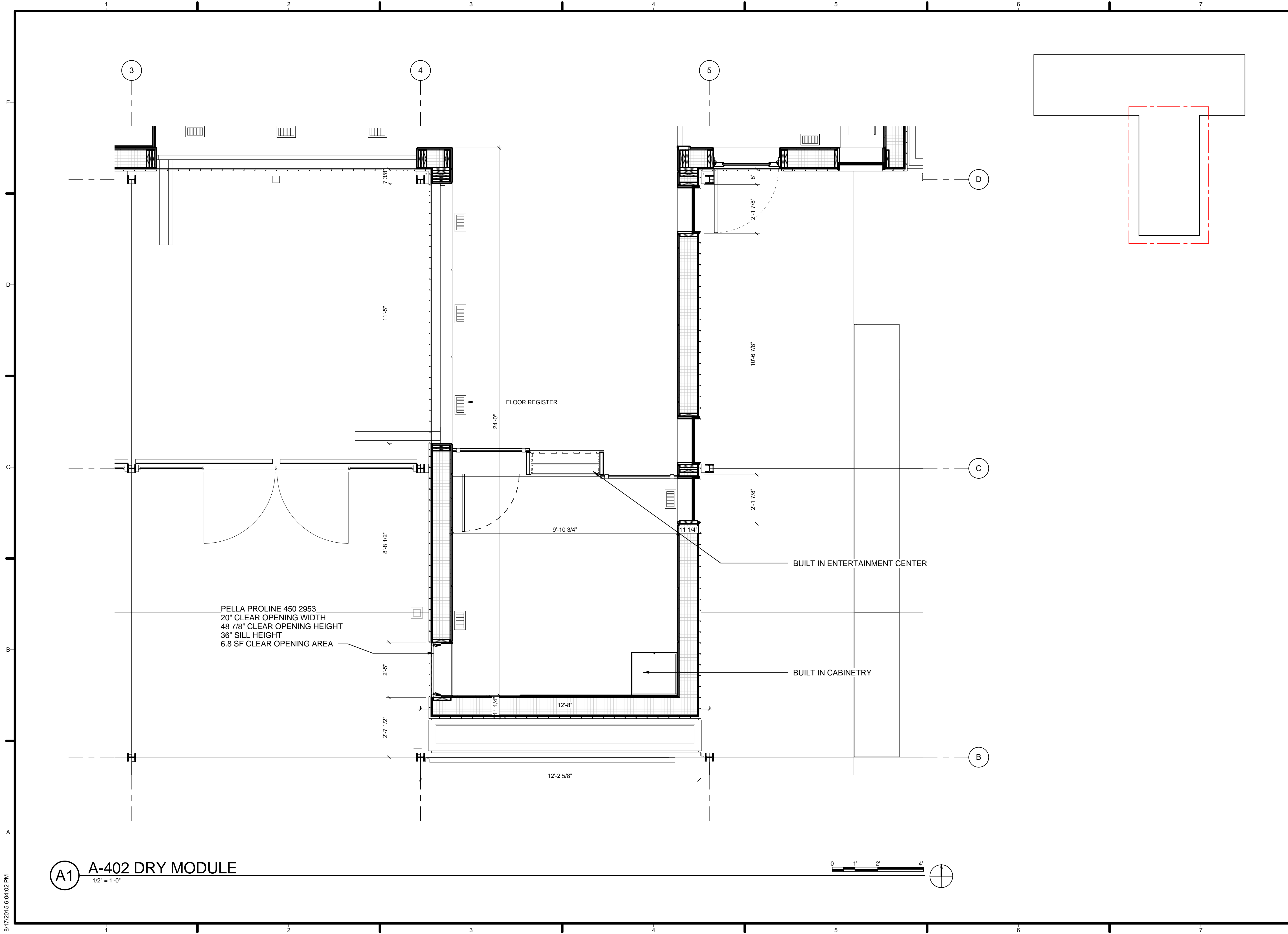
CONSTRUCTION DOCUMENTS

SHEET TITLE

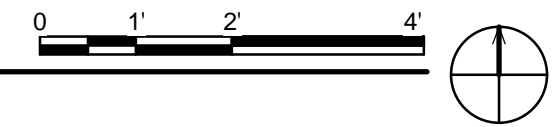
DIMENSIONED PLAN - WET MODULE

A-401

8/17/2015 6:04:00 PM



A1 A-402 DRY MODULE
1/2" = 1'-0"



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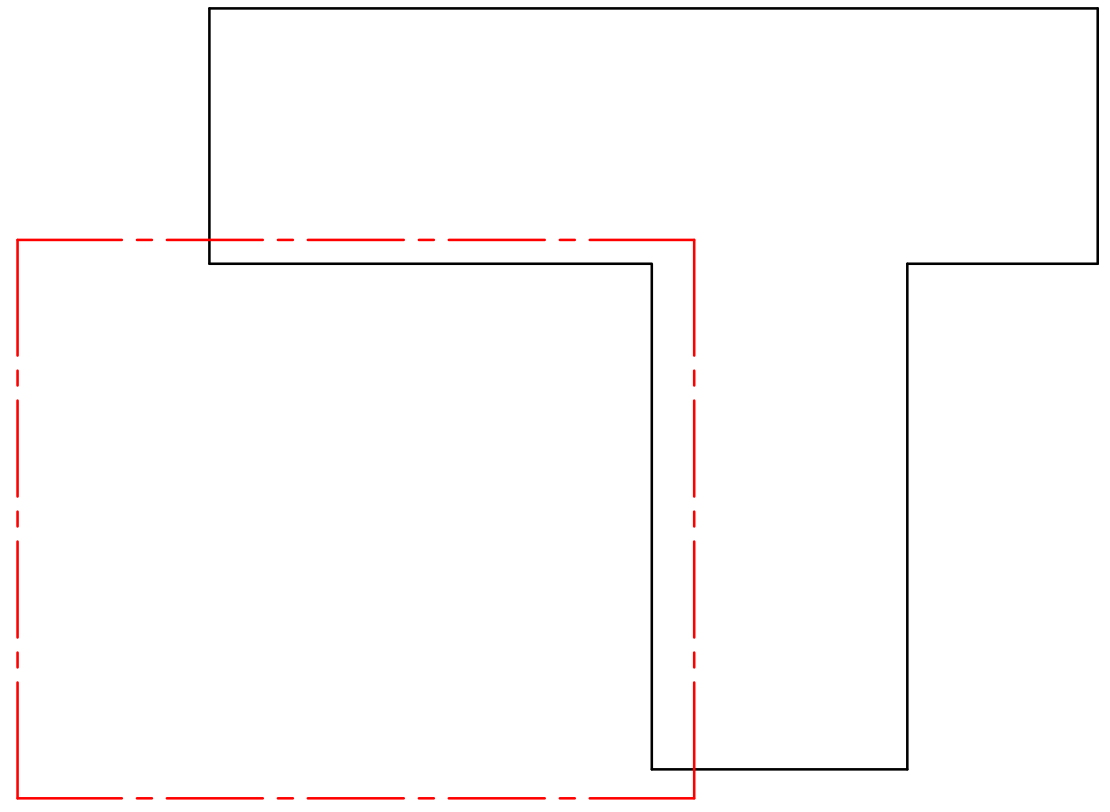
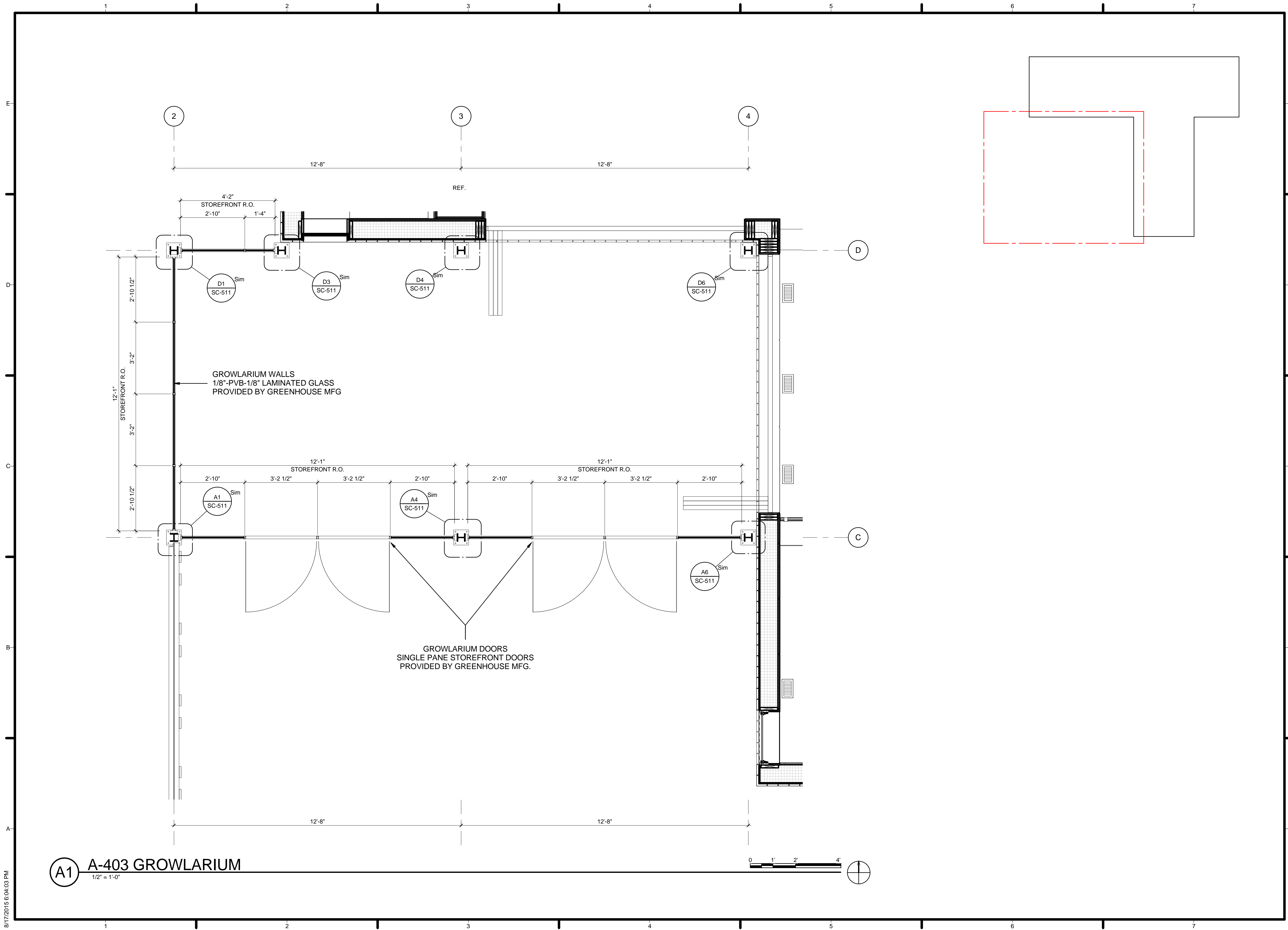
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 SHEET TITLE

**DIMENSIONED PLAN -
 DRY MODULE**

A-402

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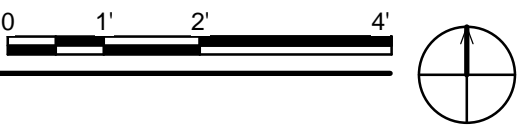
SHEET TITLE

DIMENSIONED PLAN - GROWLARIUM

A-403

8/17/2015 6:04:03 PM

A1 A-403 GROWLARIUM
 1/2" = 1'-0"





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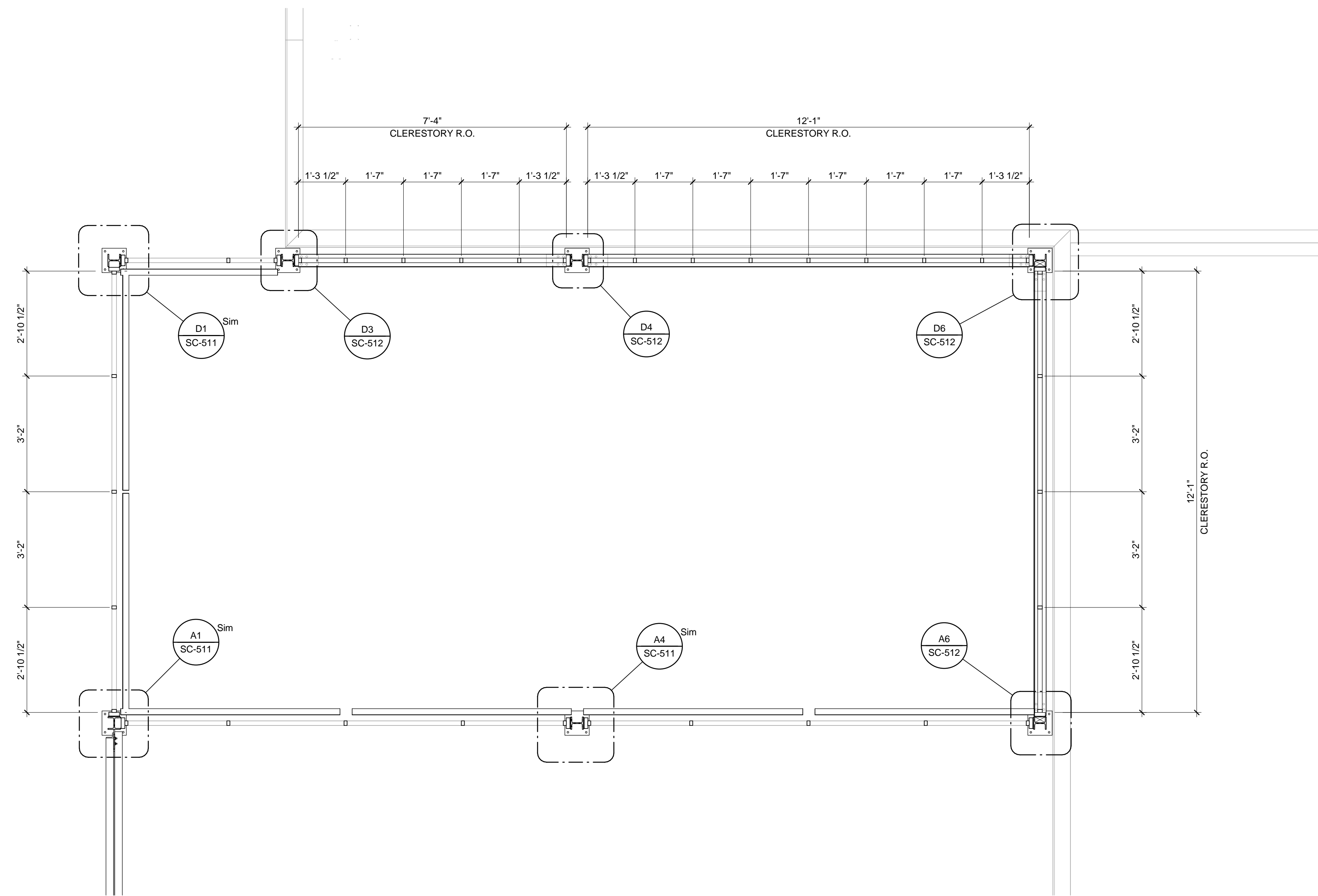
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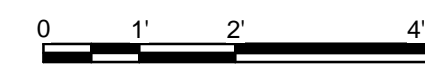
SHEET TITLE

GROWLARIUM
CLERESTORY PLAN

A-404



1 A-404 GROWLARIUM CLERESTORY
1/2" = 1'-0"





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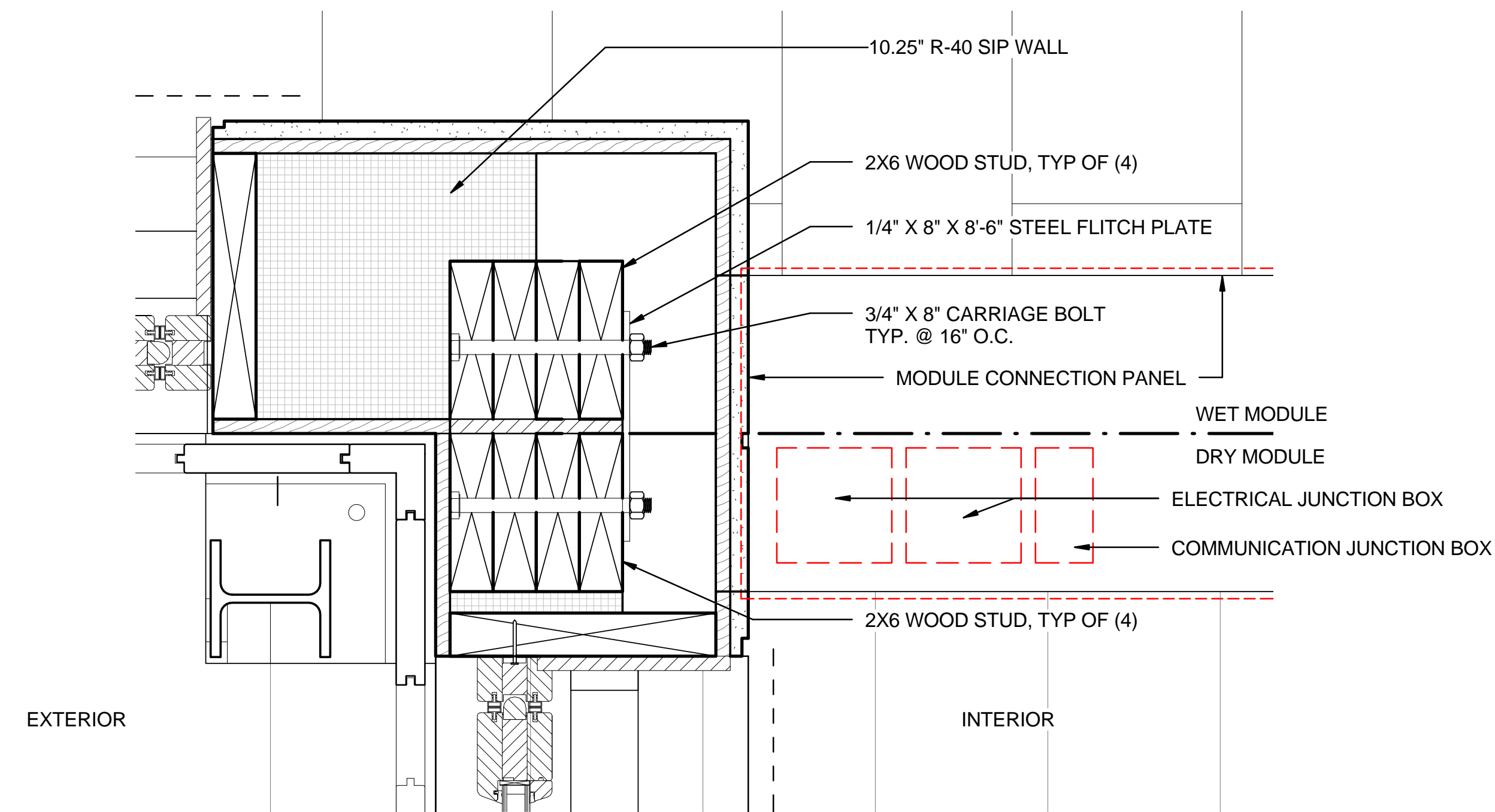
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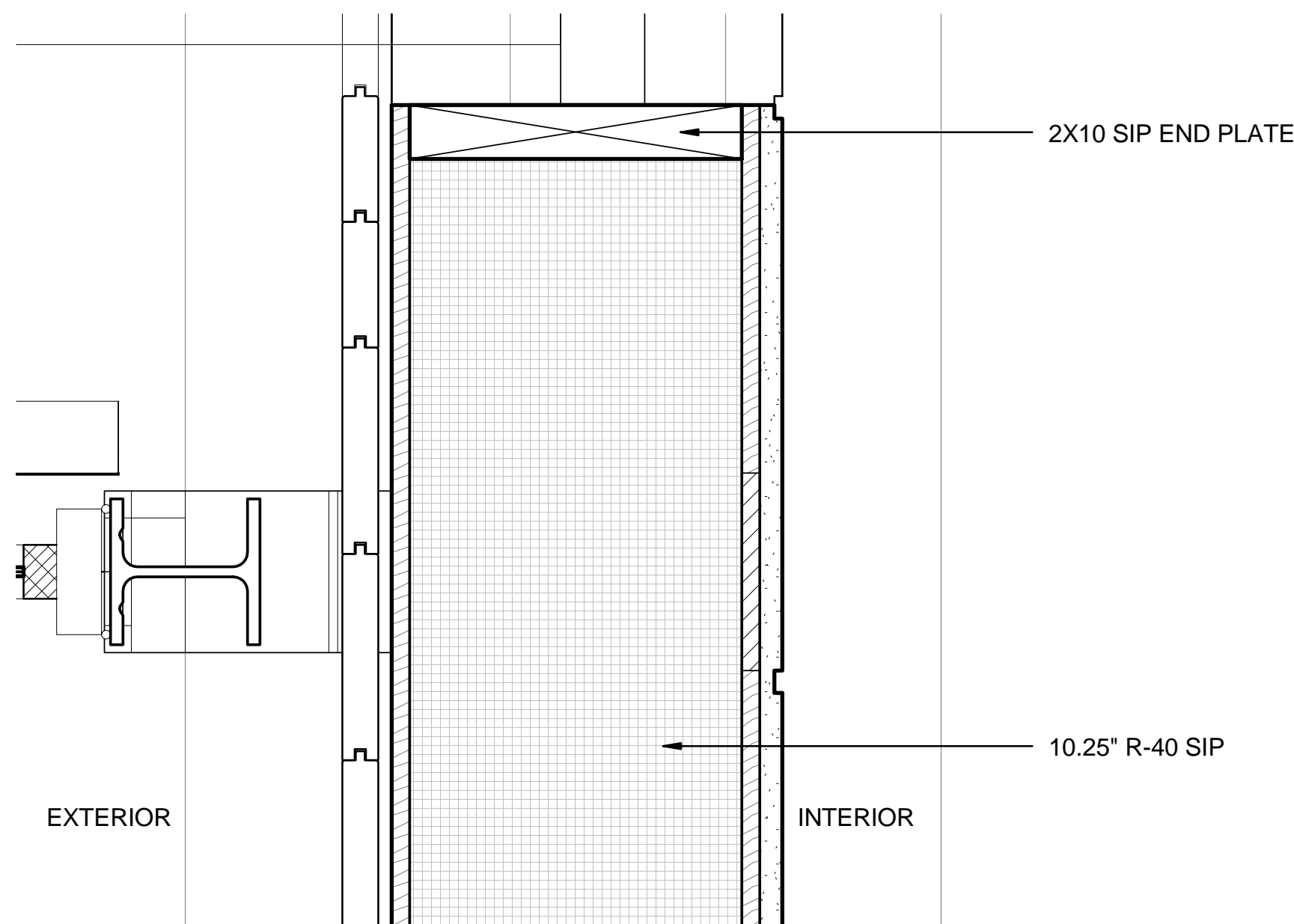
SHEET TITLE

PLAN DETAILS

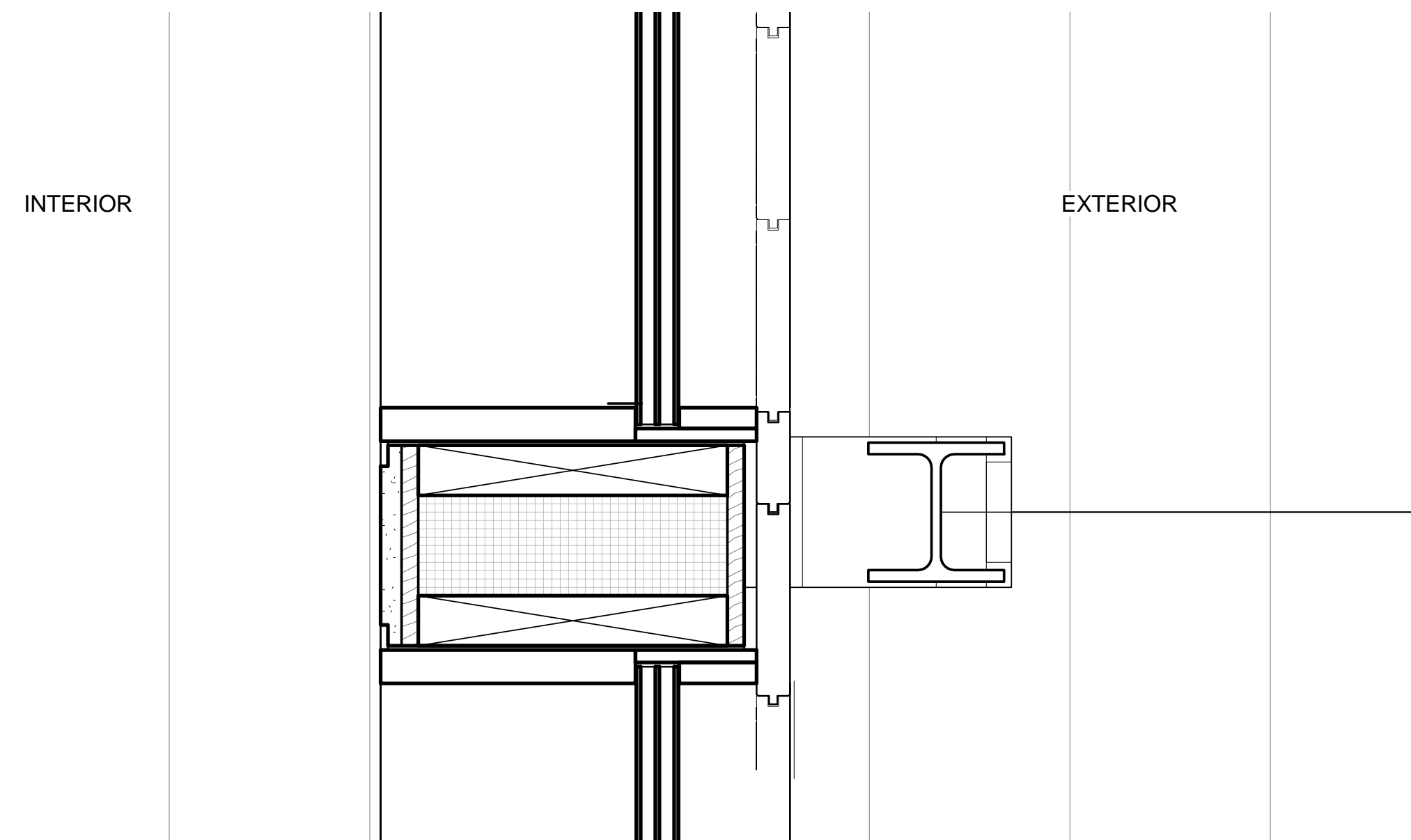
A-501



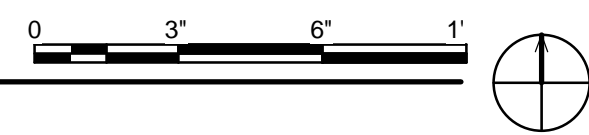
C1 A-501 WET/DRY MODULE WEST CONNECTION
 3" = 1'-0"
 TYP, MIRRORED ON EAST CONNECTION



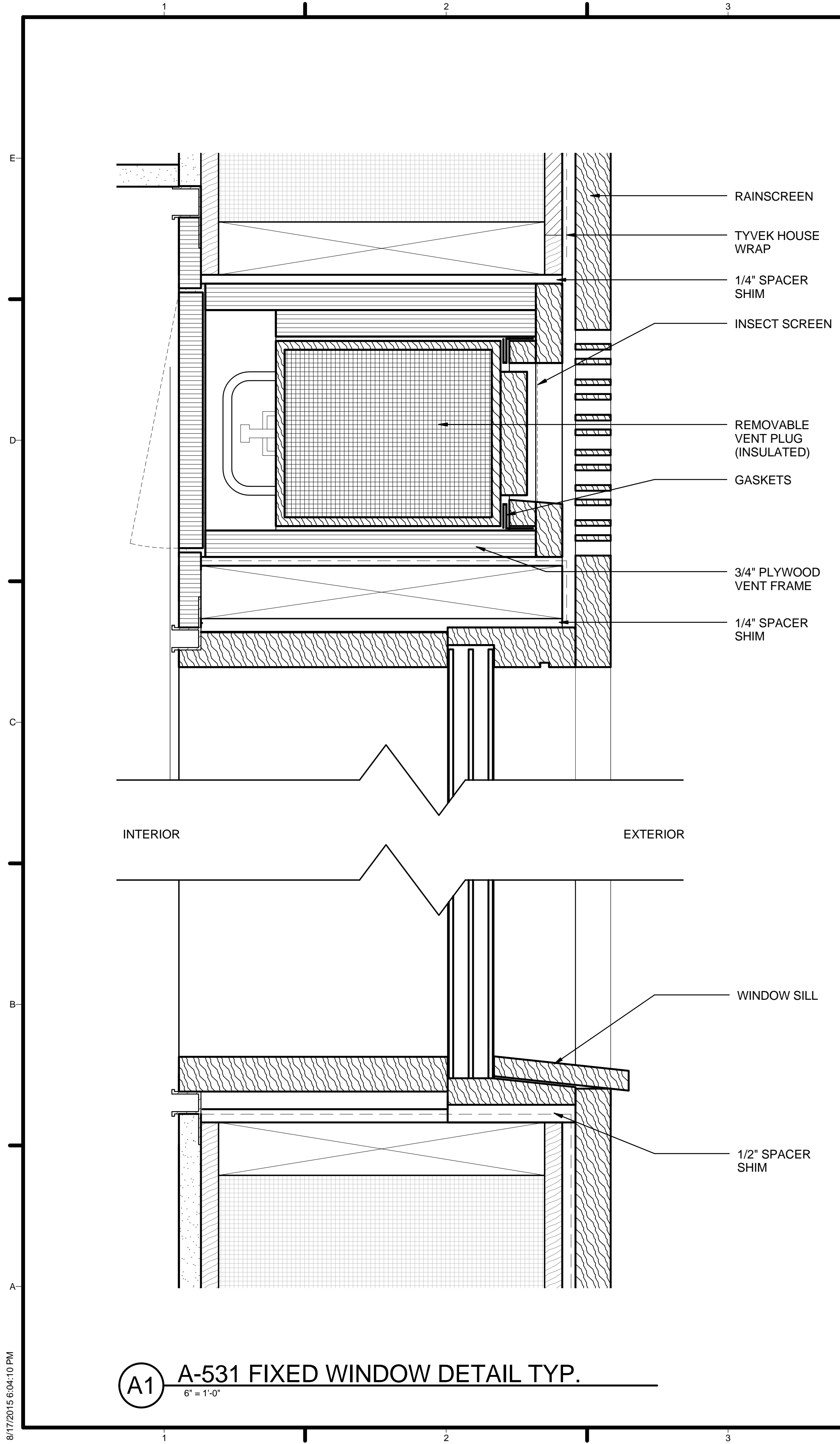
A1 A-501 DRY MODULE FOLDING GLASS DOOR
 3" = 1'-0"



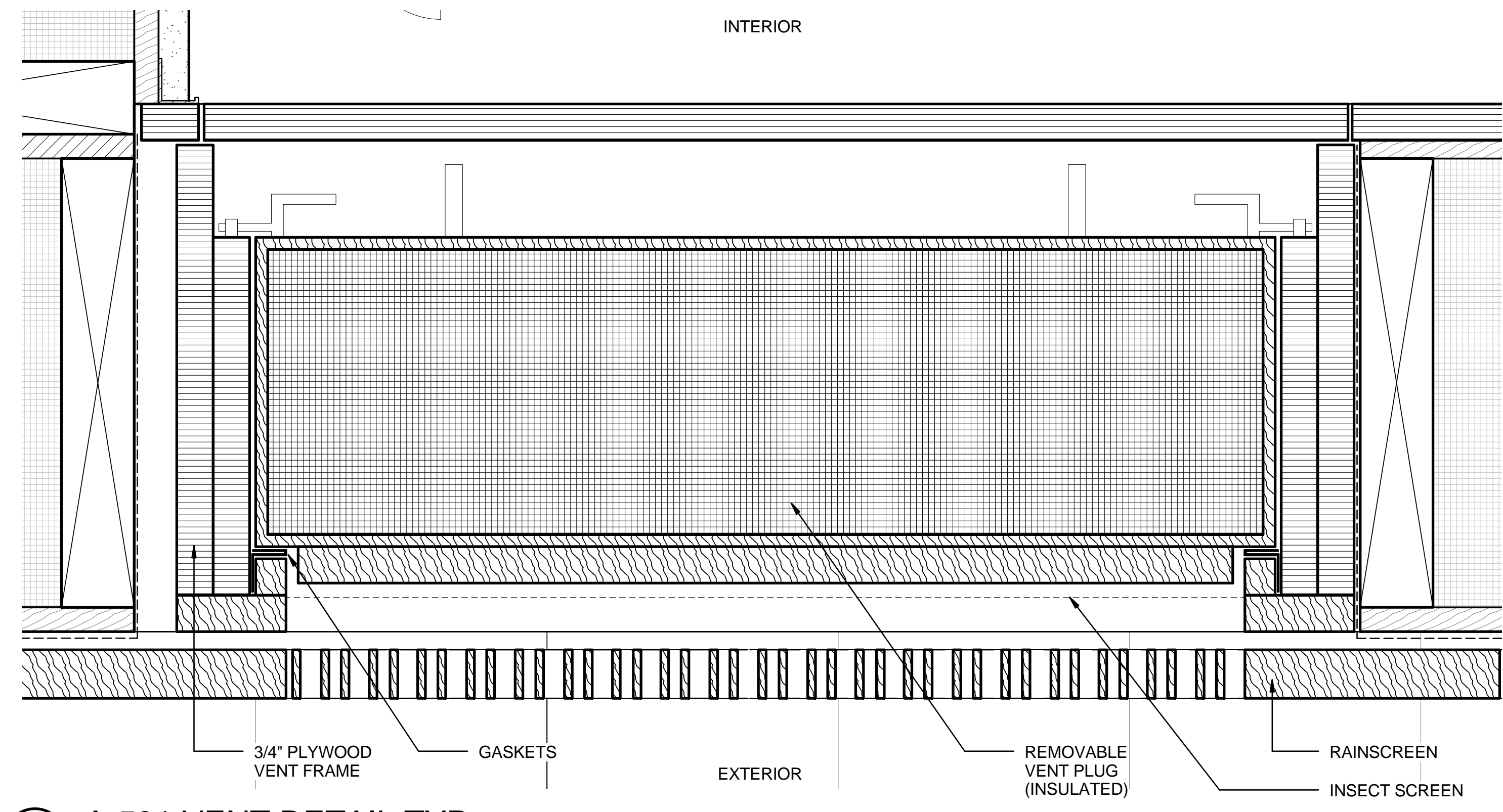
A4 A-501 DRY MODULE INTERIOR PARTITION
 3" = 1'-0"



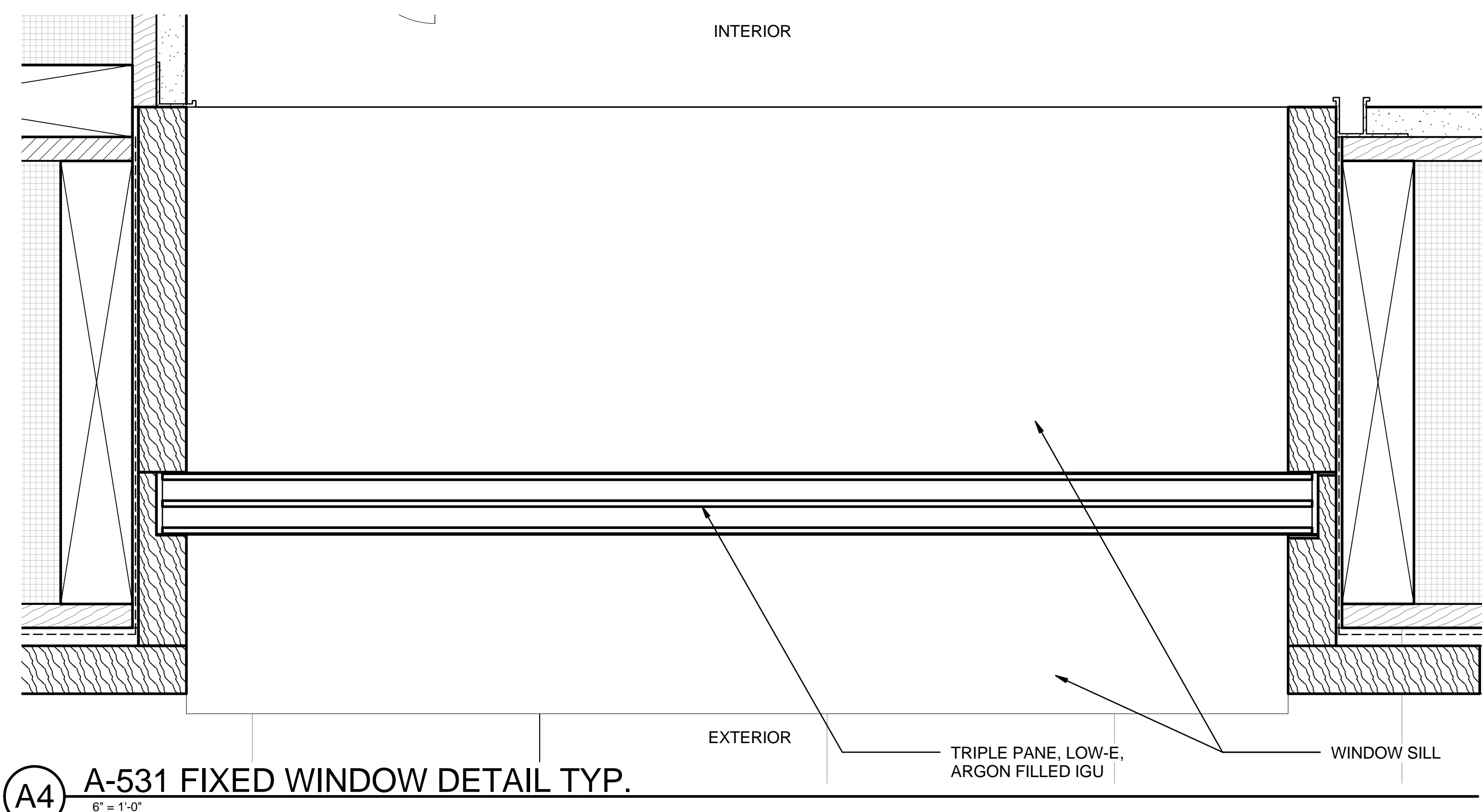
8/17/2015 6:04:07 PM



A1 A-531 FIXED WINDOW DETAIL TYP.
6" = 1'-0"



C4 A-531 VENT DETAIL TYP.
6" = 1'-0"



A4 A-531 FIXED WINDOW DETAIL TYP.
6" = 1'-0"



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FIXED WINDOW
 DETAILS

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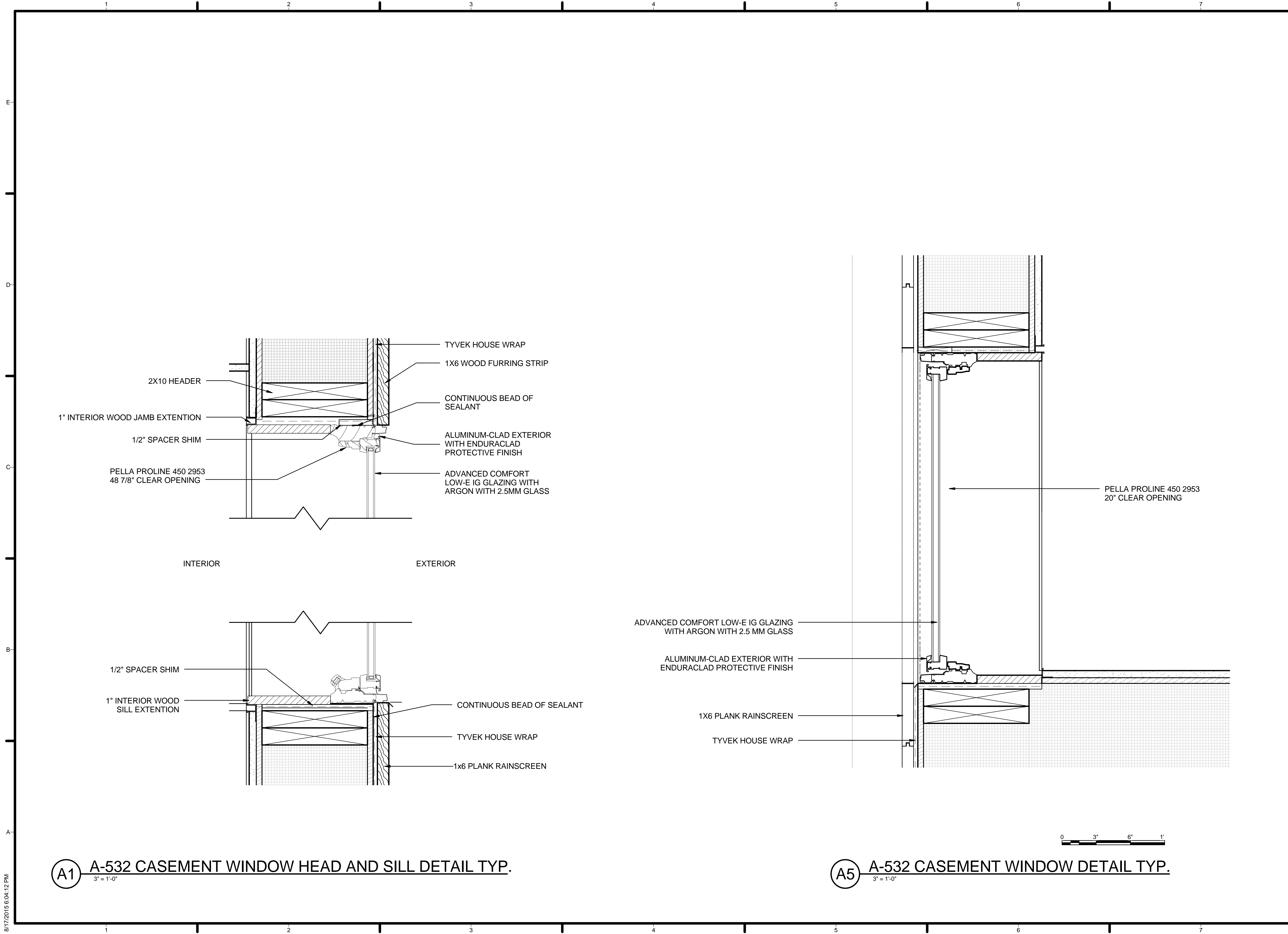


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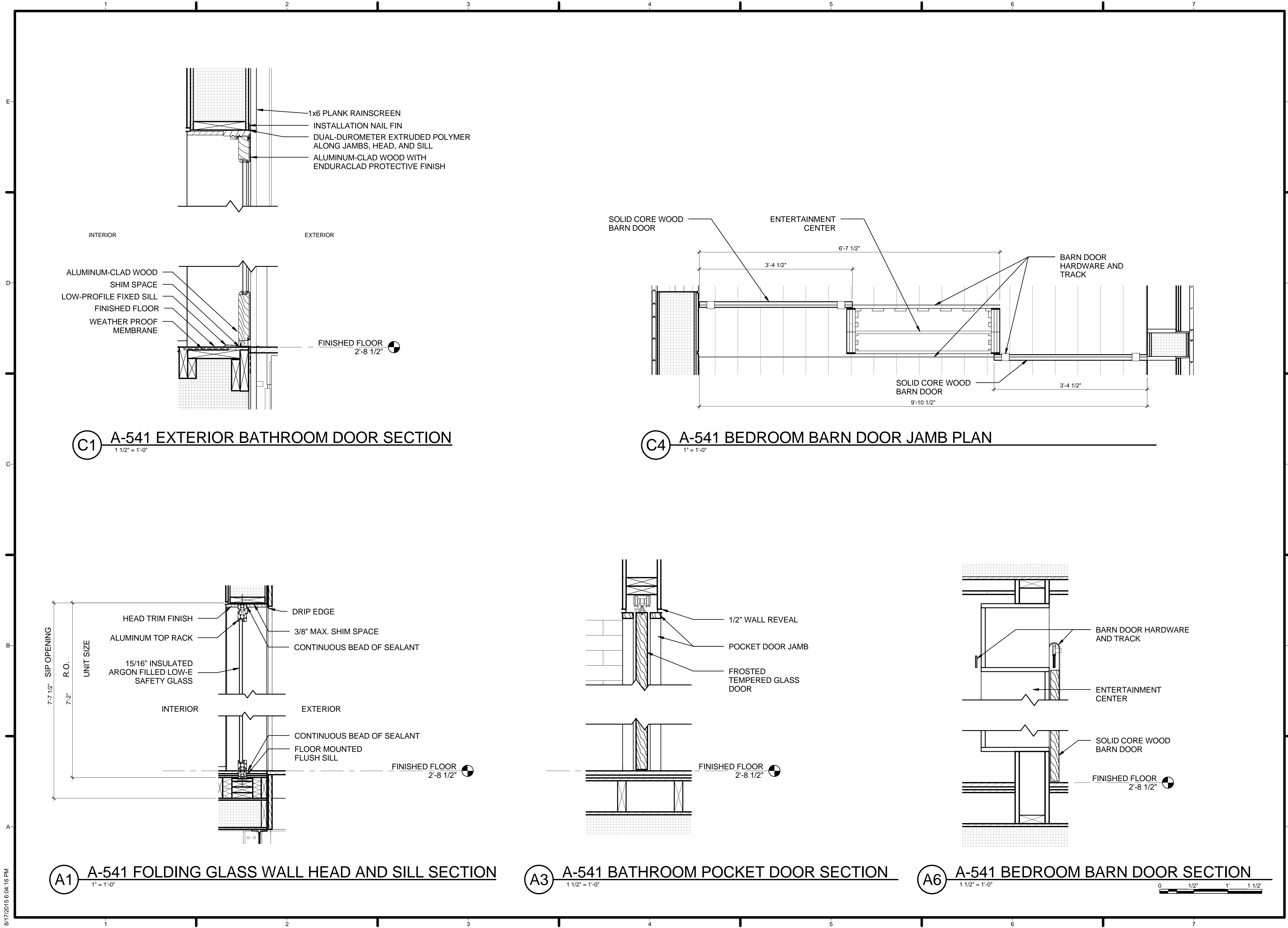
CONSTRUCTION DOCUMENTS
 SHEET TITLE

CASEMENT WINDOW DETAILS

A-532

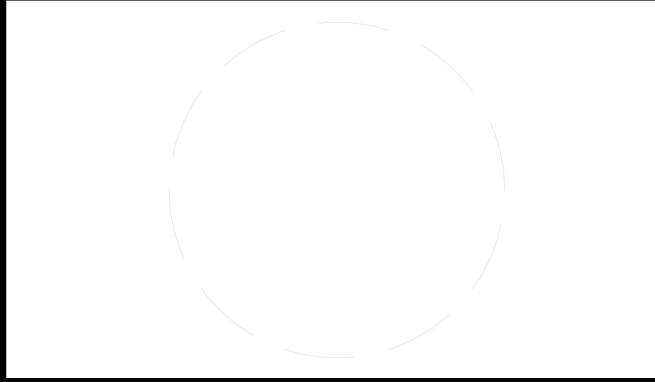


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CONSTRUCTION DOCUMENTS
 SHEET TITLE

DOOR DETAILS

A-541

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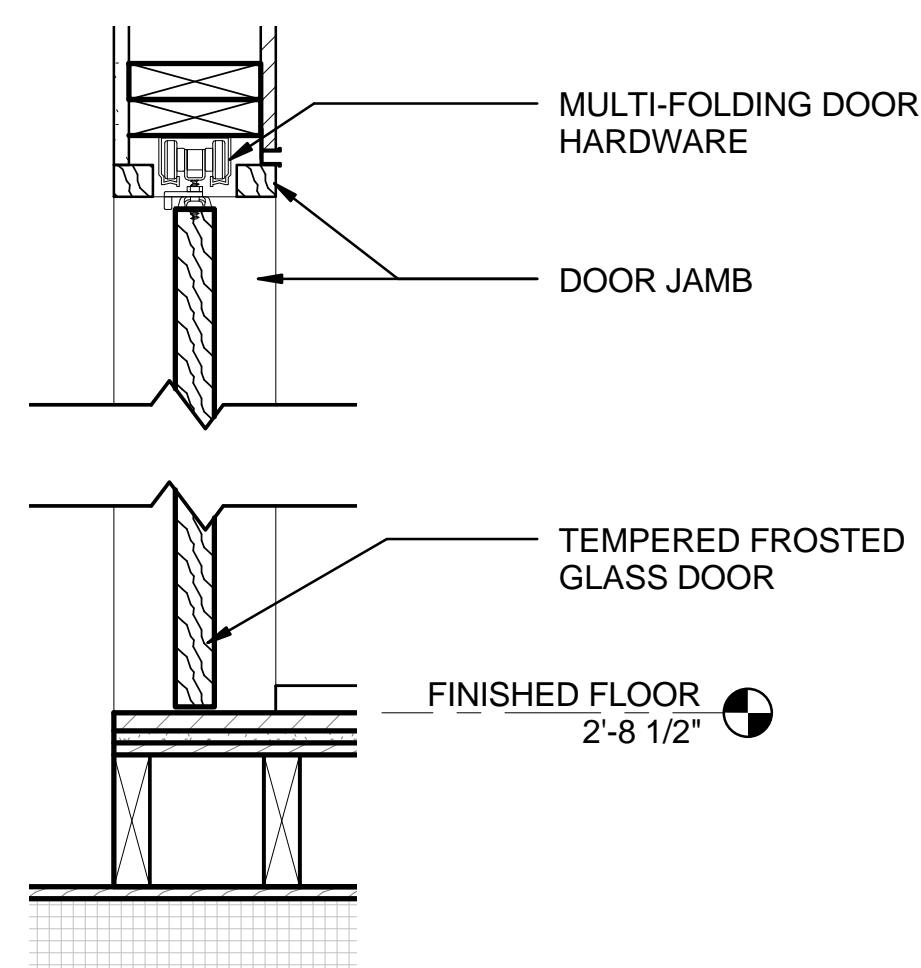
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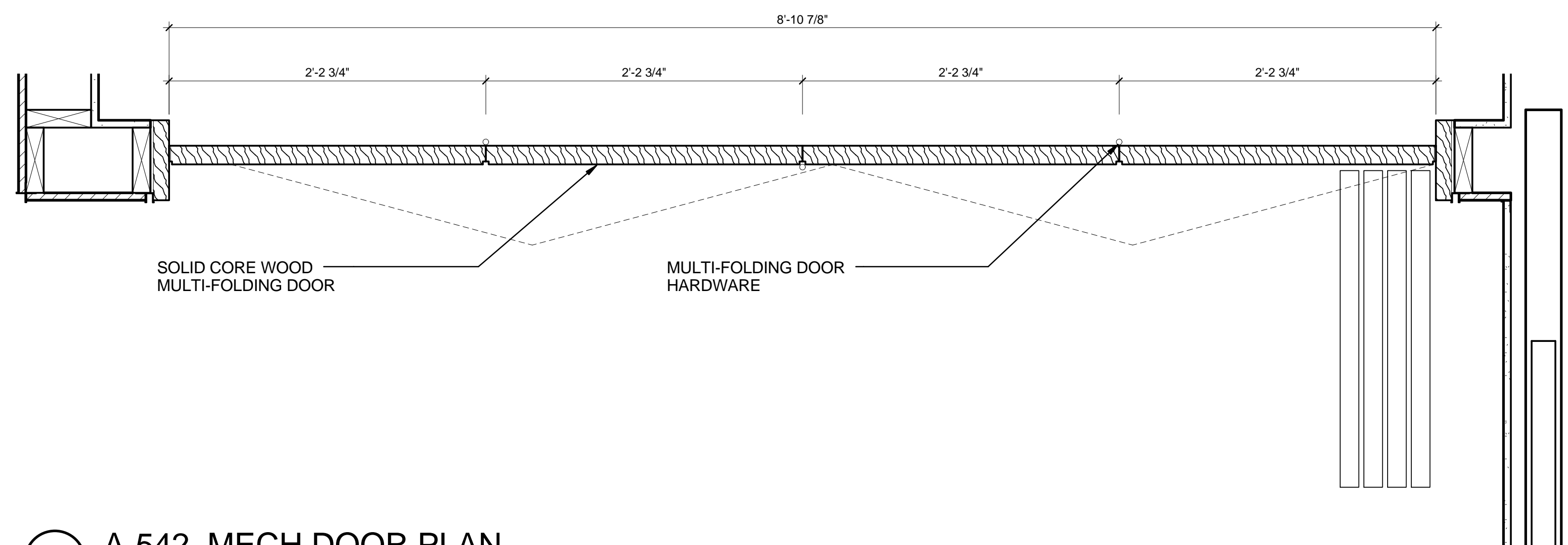
SHEET TITLE

DOOR DETAILS

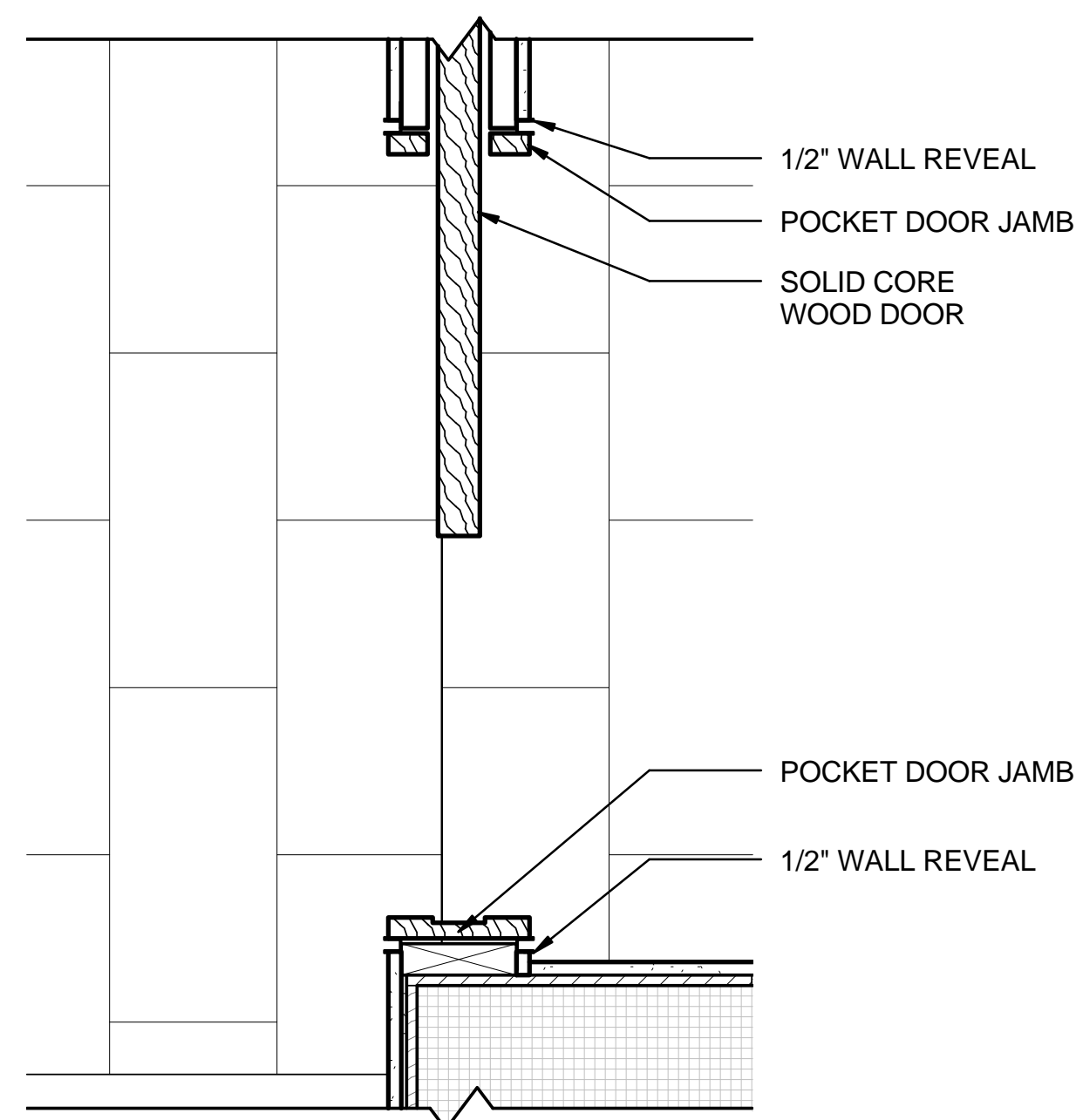
A-542



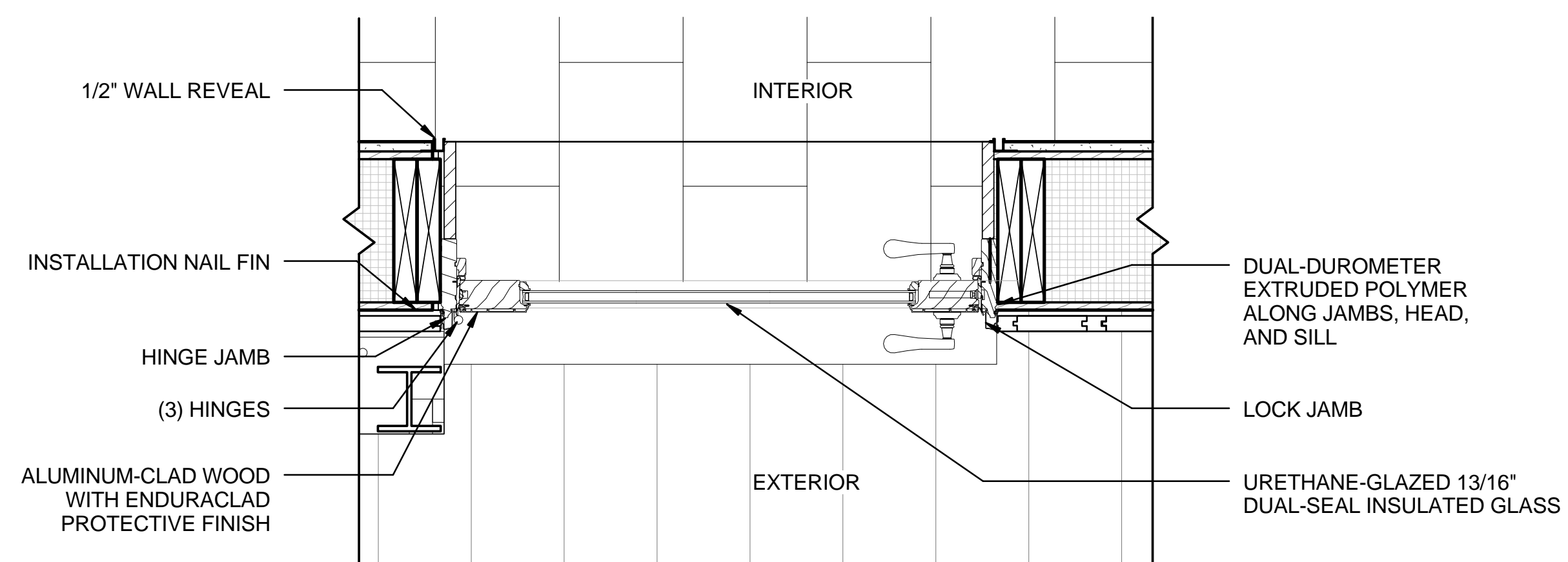
C1 A-532 MECH ROOM DOOR SECTION
 1 1/2" = 1'-0"



C3 A-542 MECH DOOR PLAN
 1 1/2" = 1'-0"



A1 A-542 INTERIOR BATHROOM DOOR PLAN
 1 1/2" = 1'-0"



A4 A-542 EXTERIOR BATHROOM DOOR PLAN
 1 1/2" = 1'-0"





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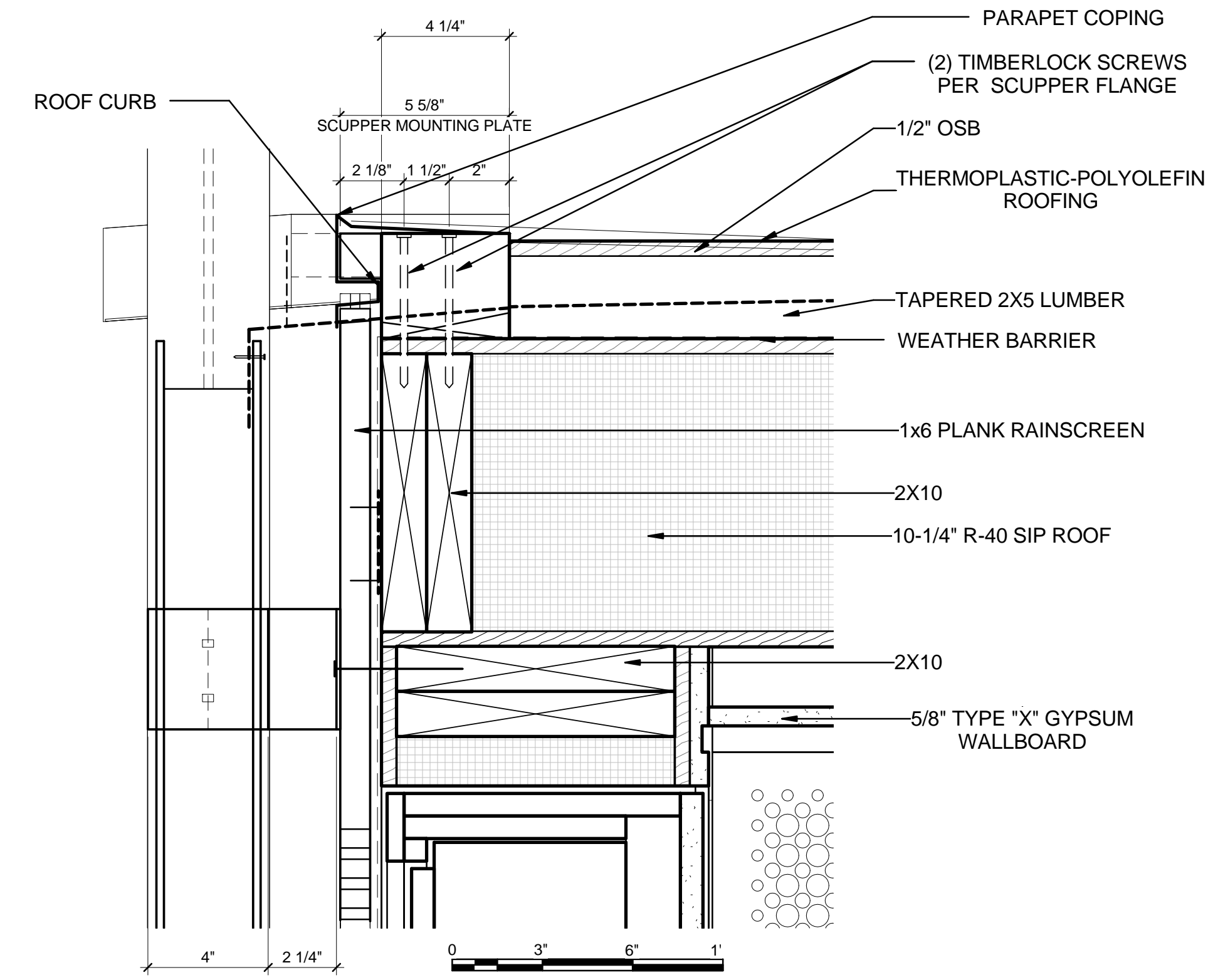
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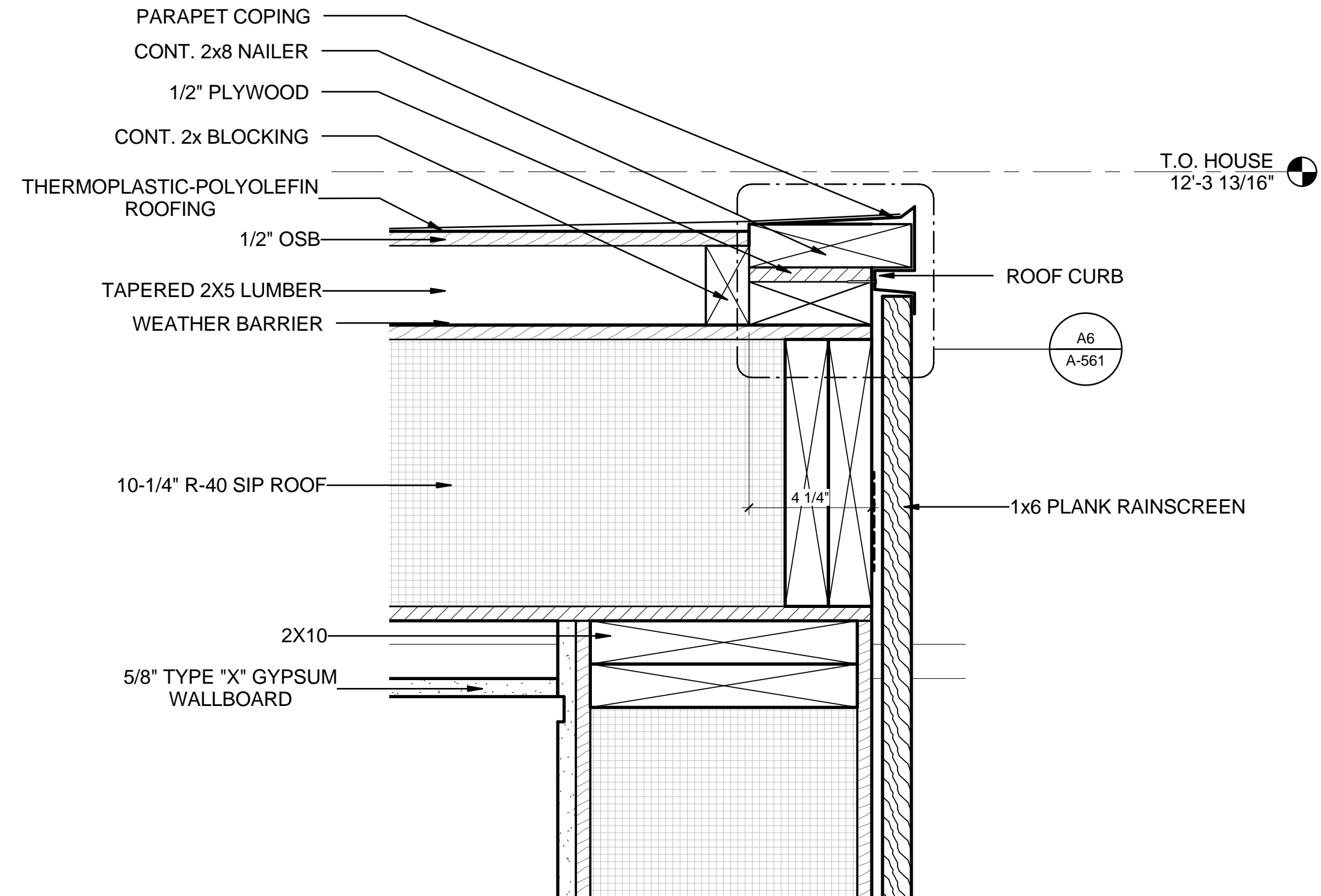
ROOF DETAILS

A-561

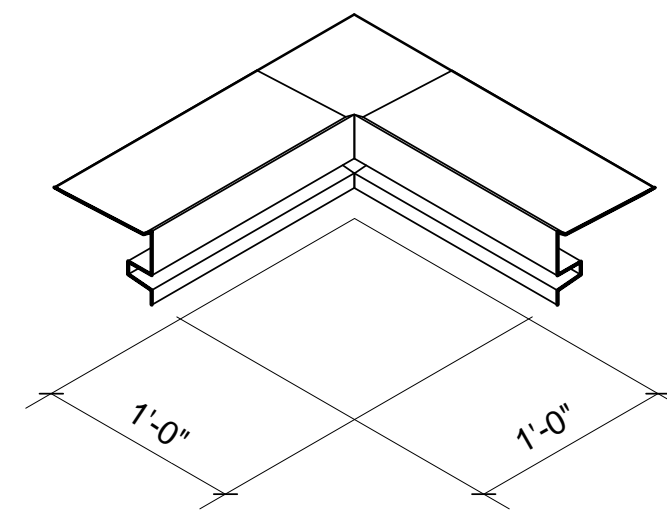
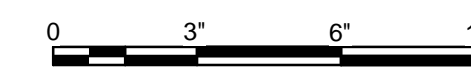
PROVIDE (2) 8" WOOD SCREW FASTENERS IN WEATHER RESISTANT FINISH PER SPECIFICATIONS. COUNTER SINK FLUSH TO THE GREATEST EXTENT POSSIBLE.
 NOTE: ROUT N2X8 NAILER TO RECEIVE SCUPPER.



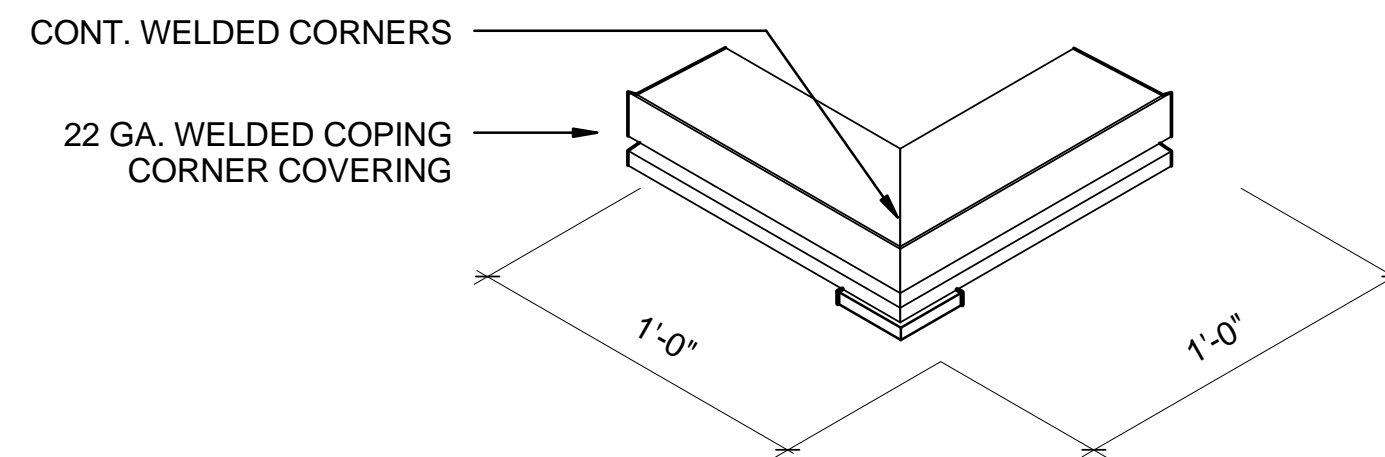
C1 A-561 SCUPPER SECTION TYP.
 3" = 1'-0"



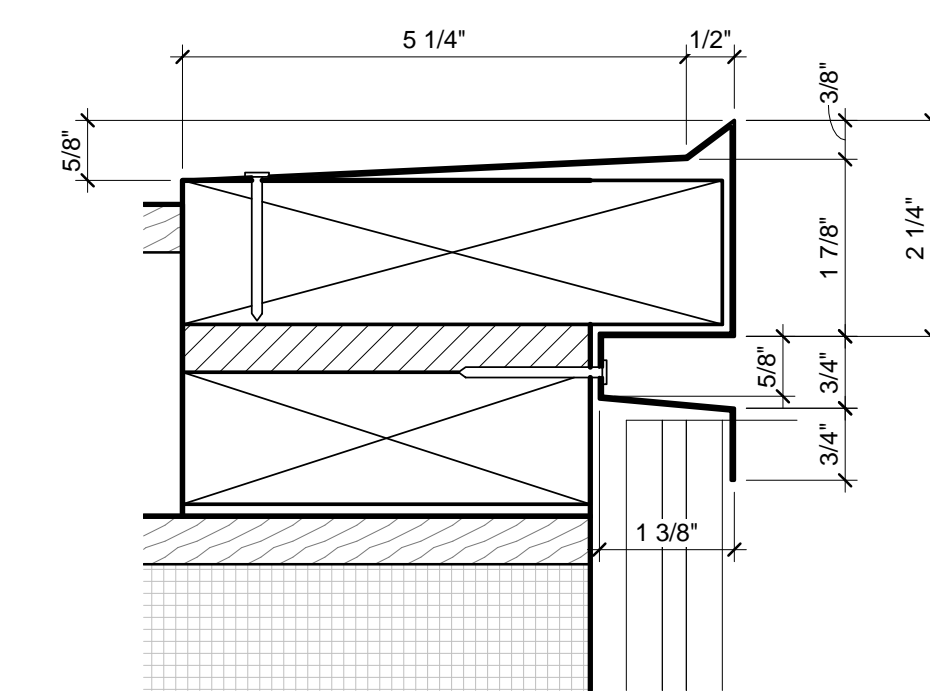
C4 A-561 ROOF DETAIL TYP.
 3" = 1'-0"



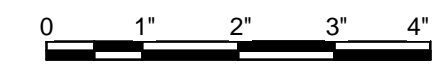
A1 A-561 INNER COPING CORNER
 (2 REQUIRED)



A3 A-561 COPING CORNER DETAIL
 (6 REQUIRED)



A6 CALLOUT OF A-561 ROOF DETAIL TYP.
 6" = 1'-0"





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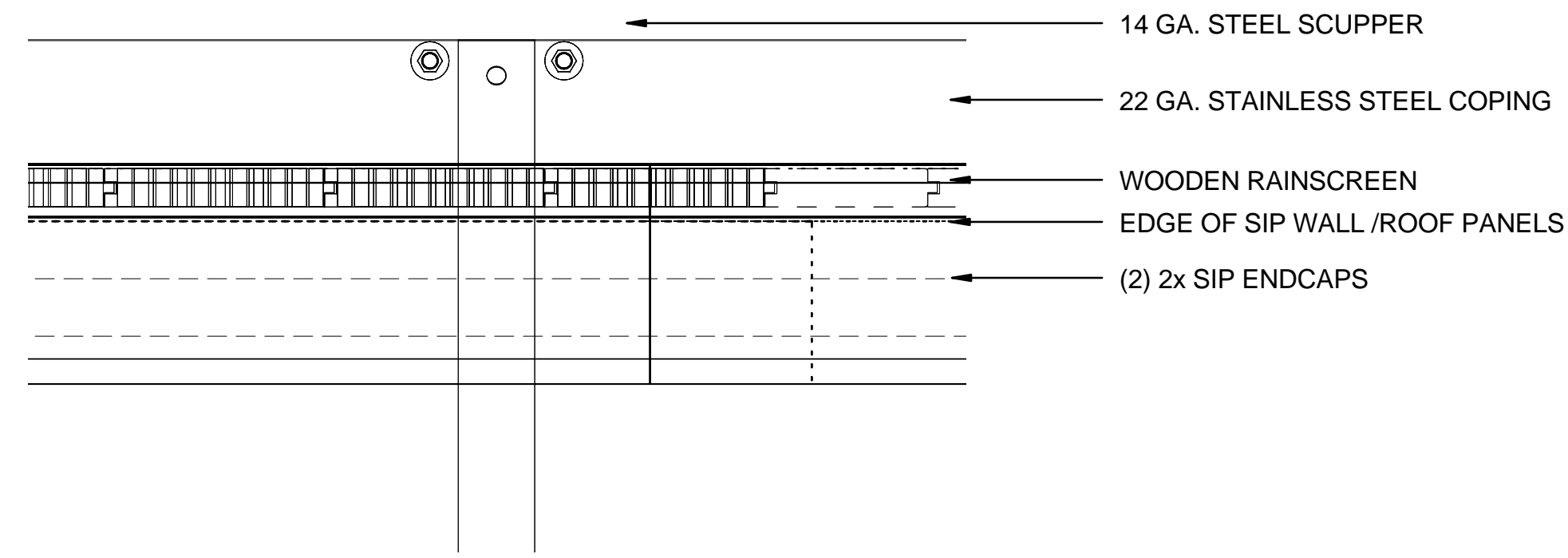
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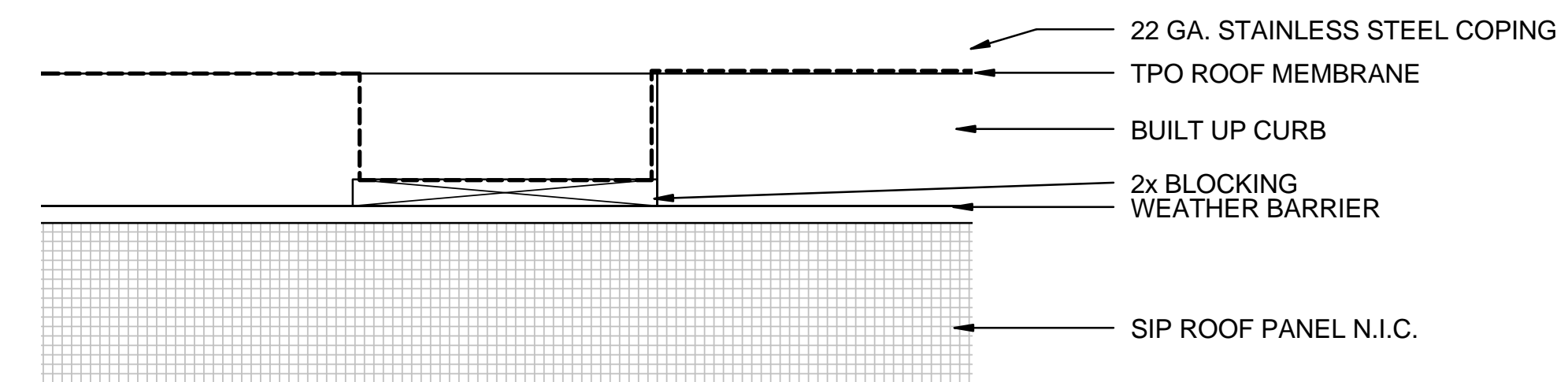
SHEET TITLE

SCUPPER DETAILS

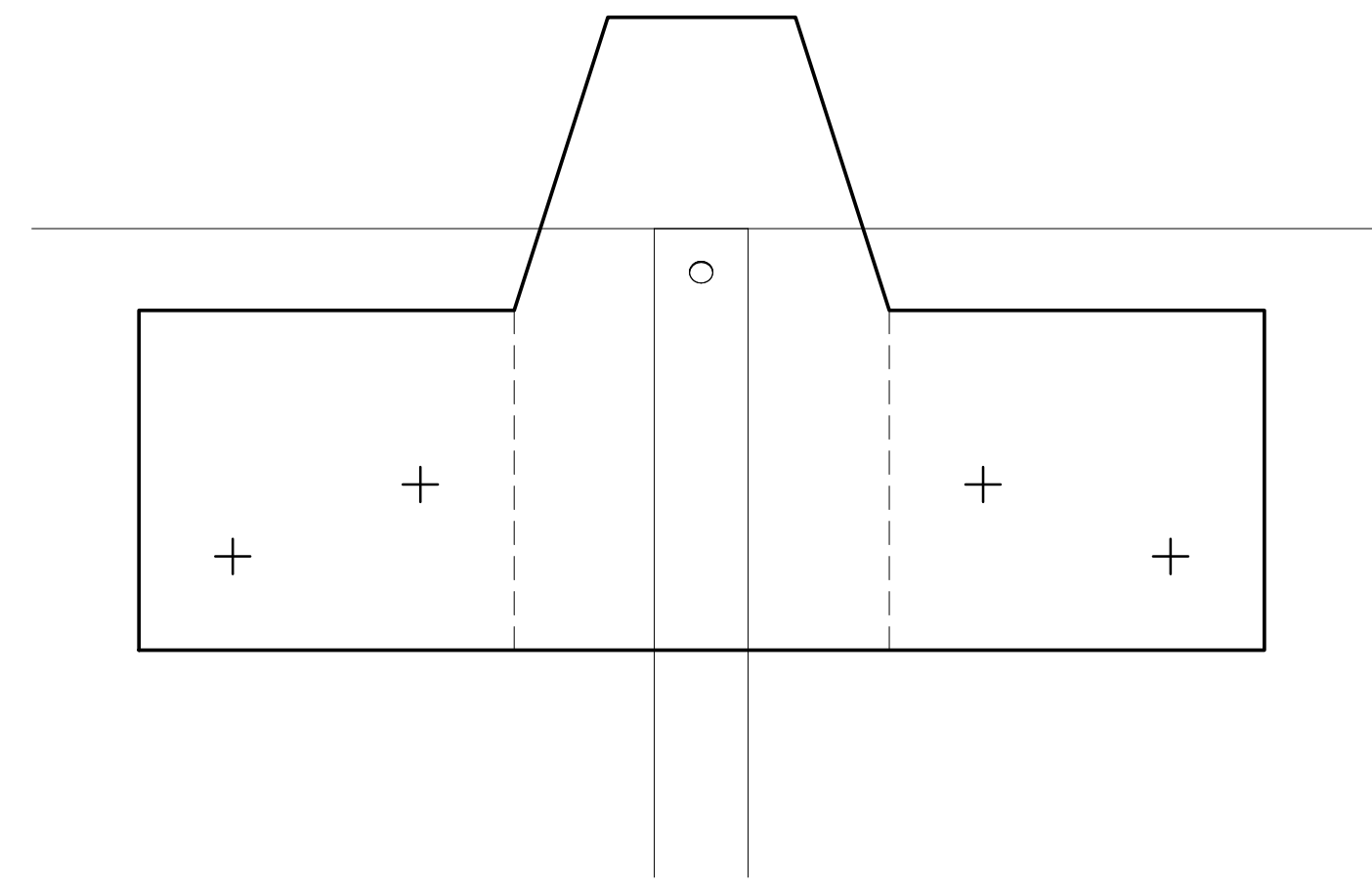
A-562



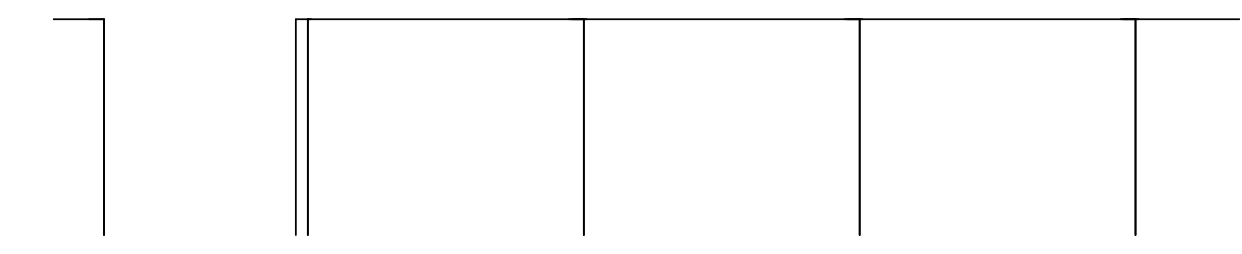
D1 A-562 SCUPPER PLAN TYP.
3" = 1'-0"



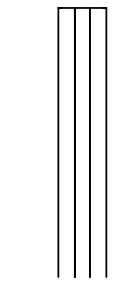
D4 SCUPPER DETAIL SECTION
3" = 1'-0"



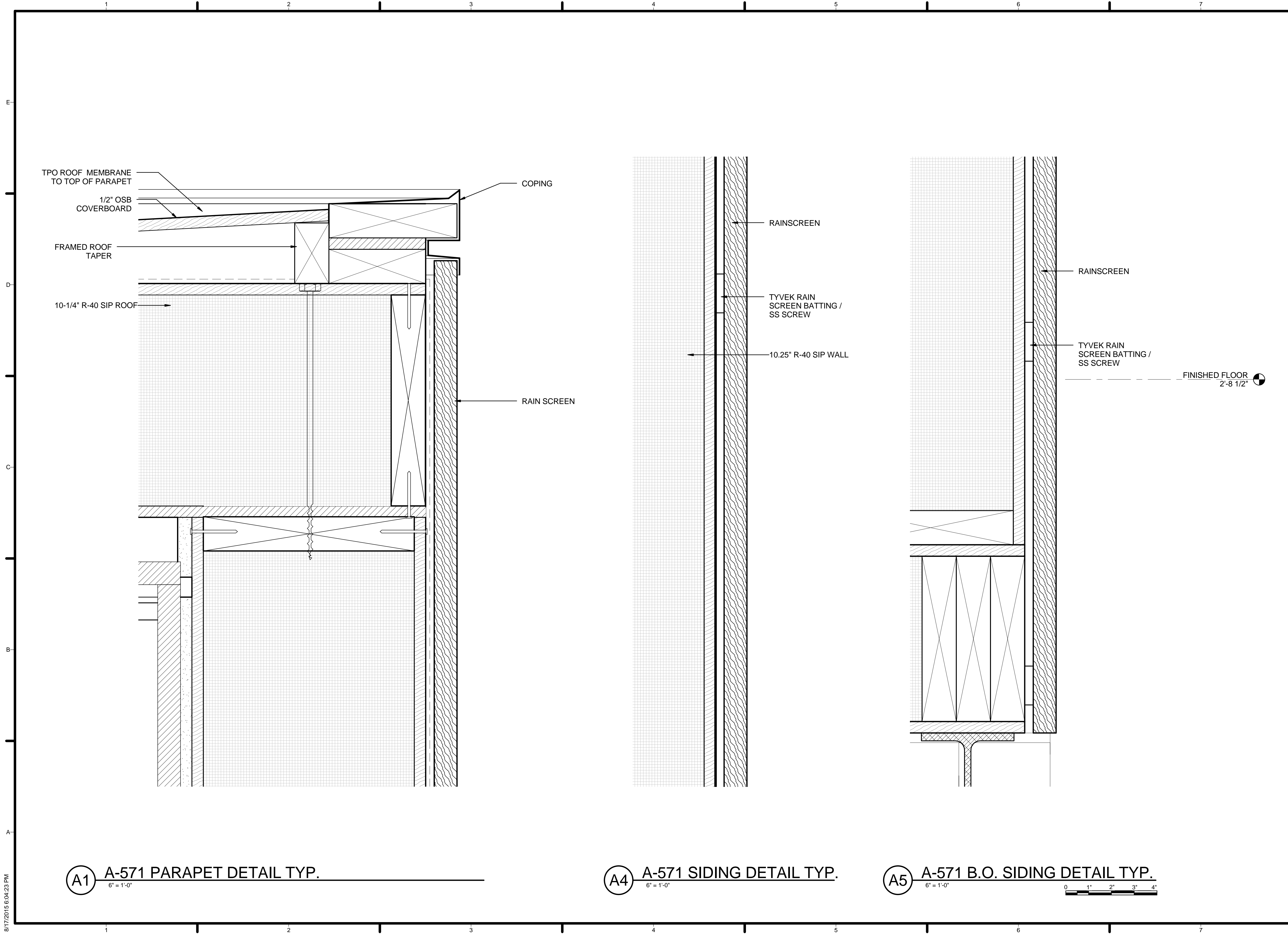
A1 A-562 SCUPPER PLAN SHOP DRAWING
3" = 1'-0"



A4 A-562 SCUPPER FRONT ELEVATION
3" = 1'-0"



A6 A-562 SCUPPER LEFT ELEVATION
3" = 1'-0"



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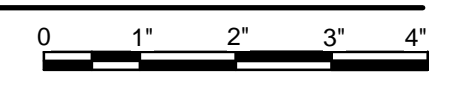
SIDING DETAILS

A-571

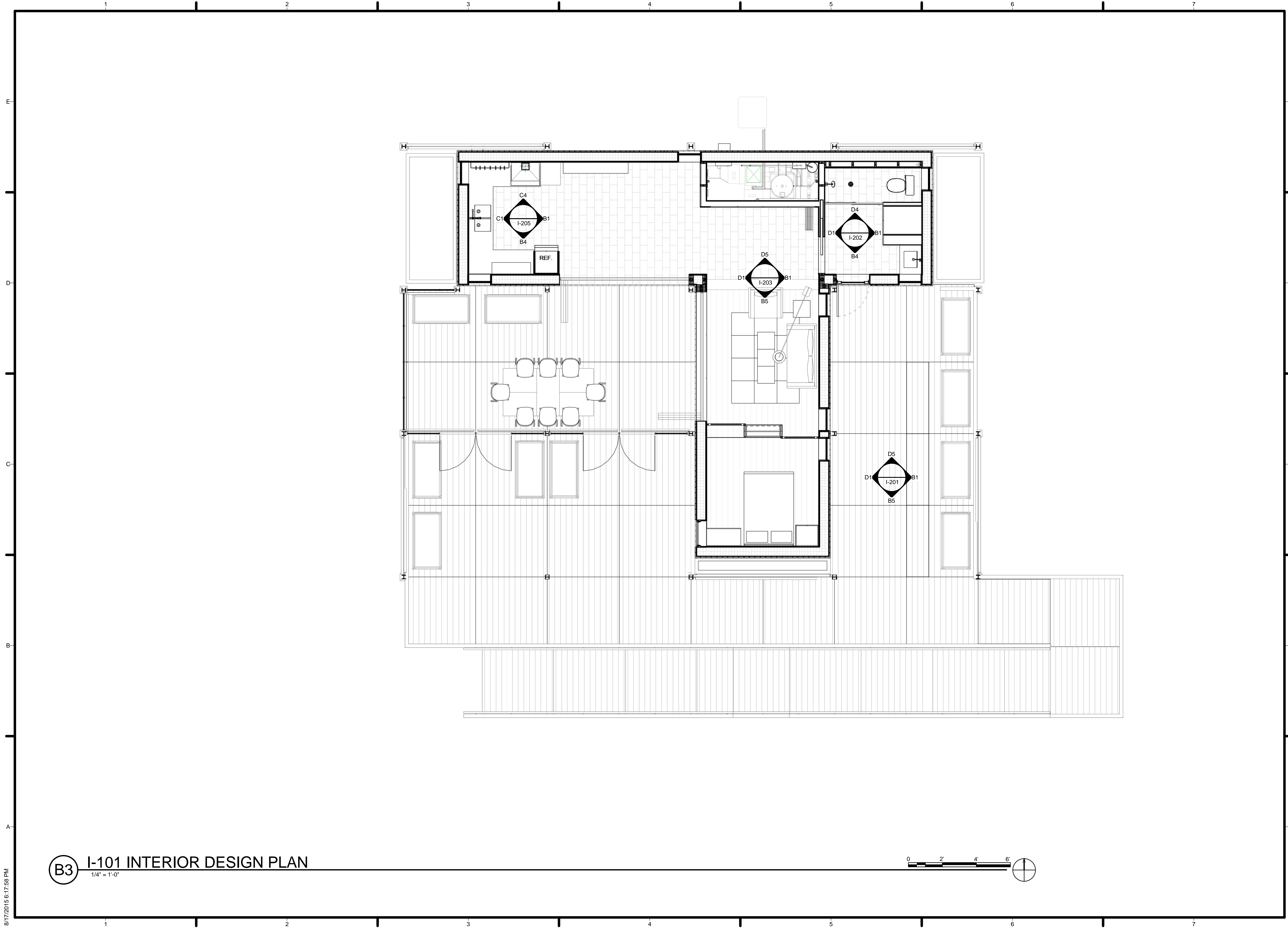
A1 A-571 PARAPET DETAIL TYP.
 6" = 1'-0"

A4 A-571 SIDING DETAIL TYP.
 6" = 1'-0"

A5 A-571 B.O. SIDING DETAIL TYP.
 6" = 1'-0"

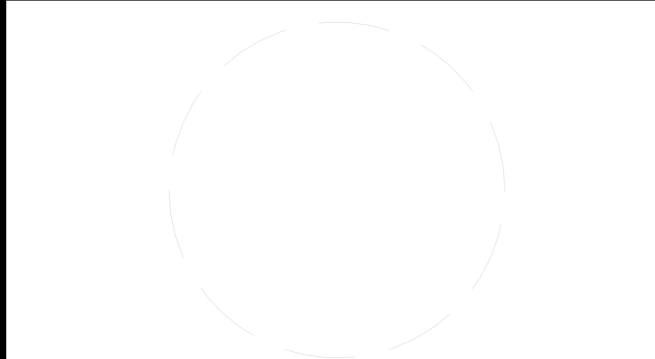


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SHEET TITLE

INTERIOR DESIGN AND FURNITURE PLAN

I-101

B3 I-101 INTERIOR DESIGN PLAN
 1/4" = 1'-0"

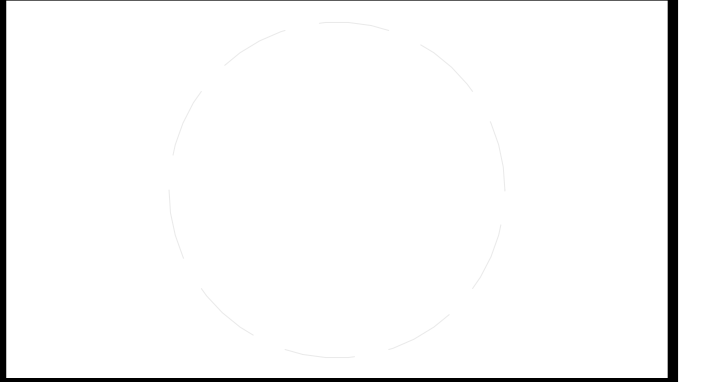


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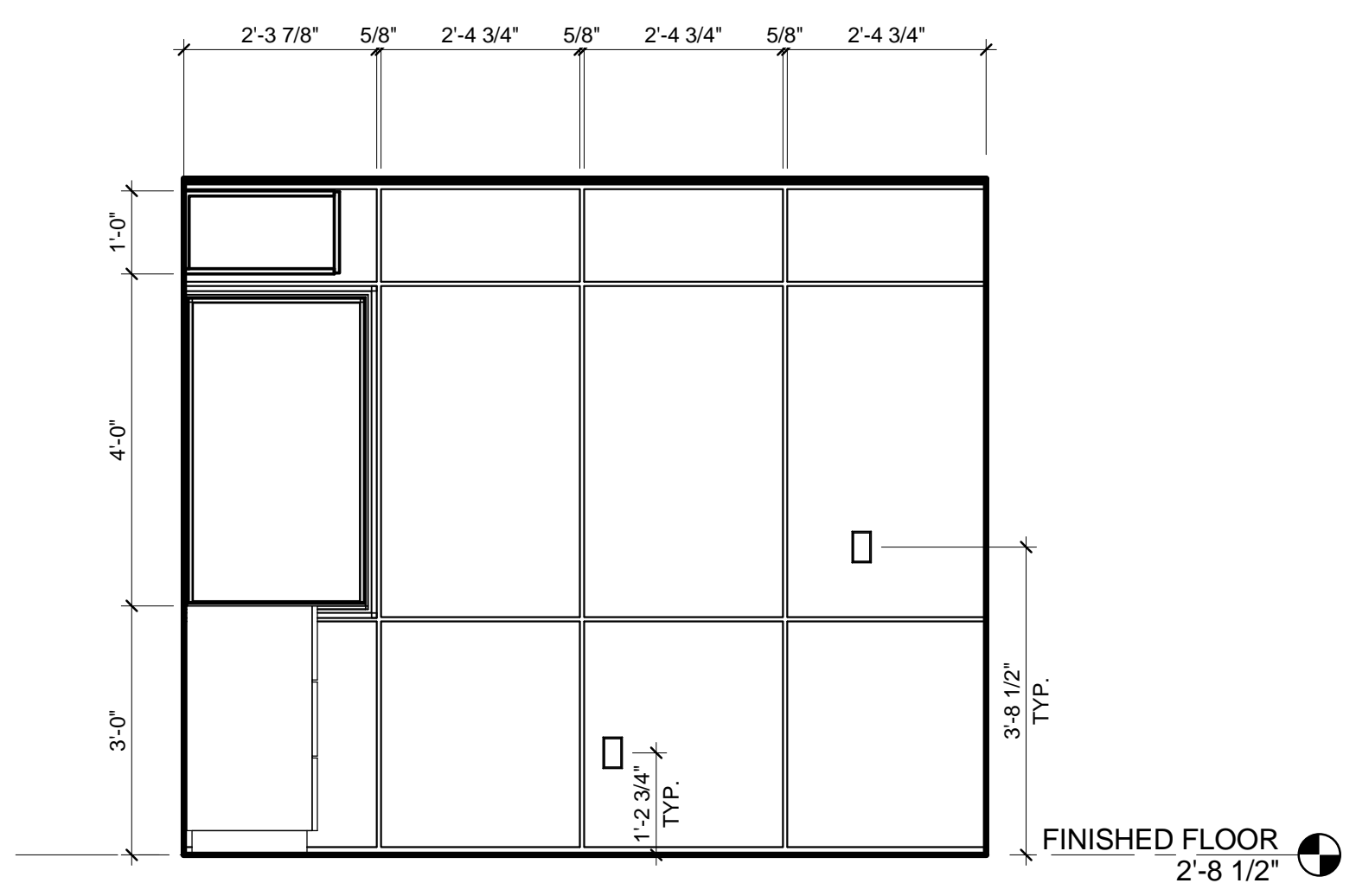
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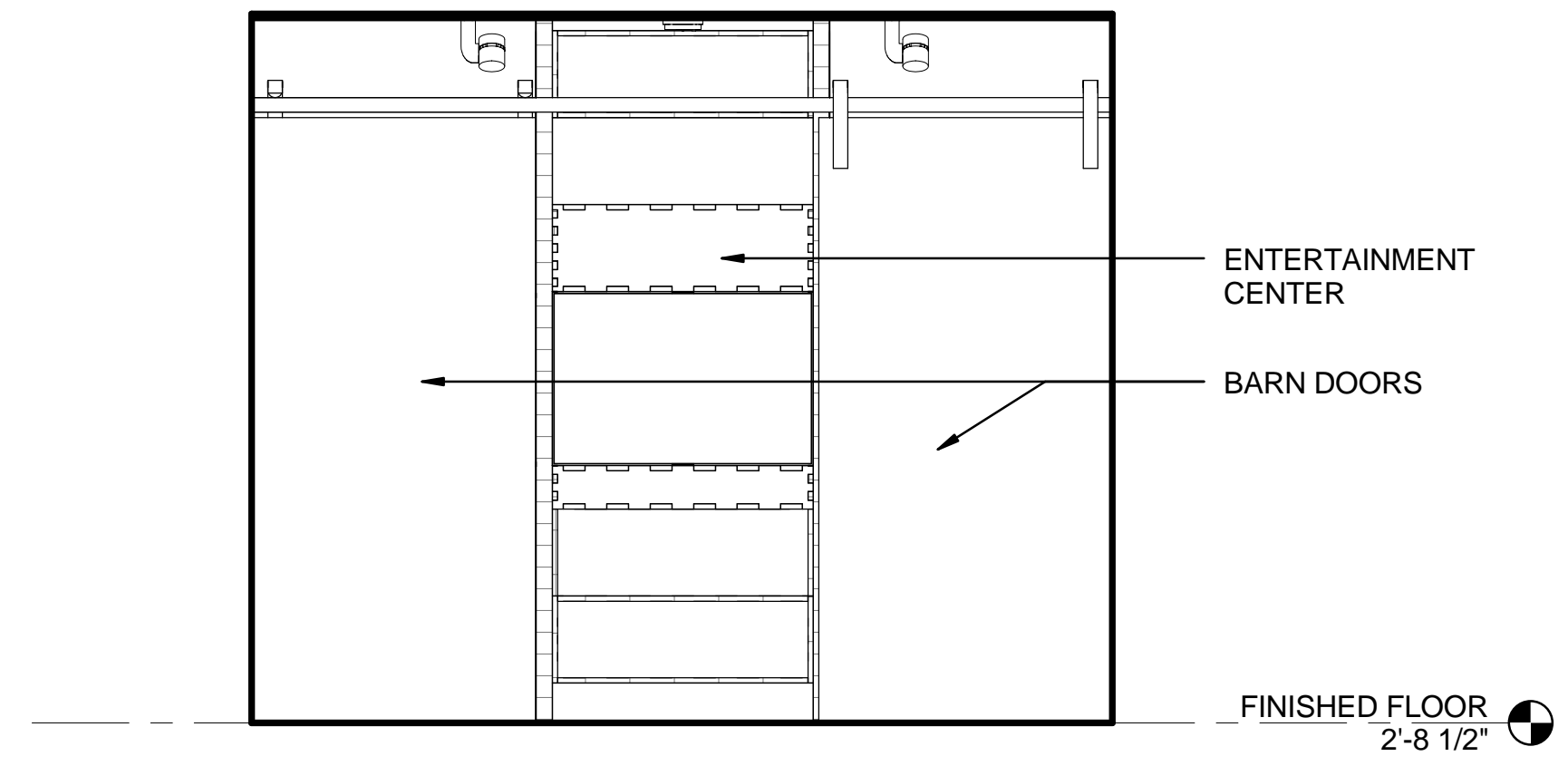
SHEET TITLE

INTERIOR ELEVATION
 BEDROOM

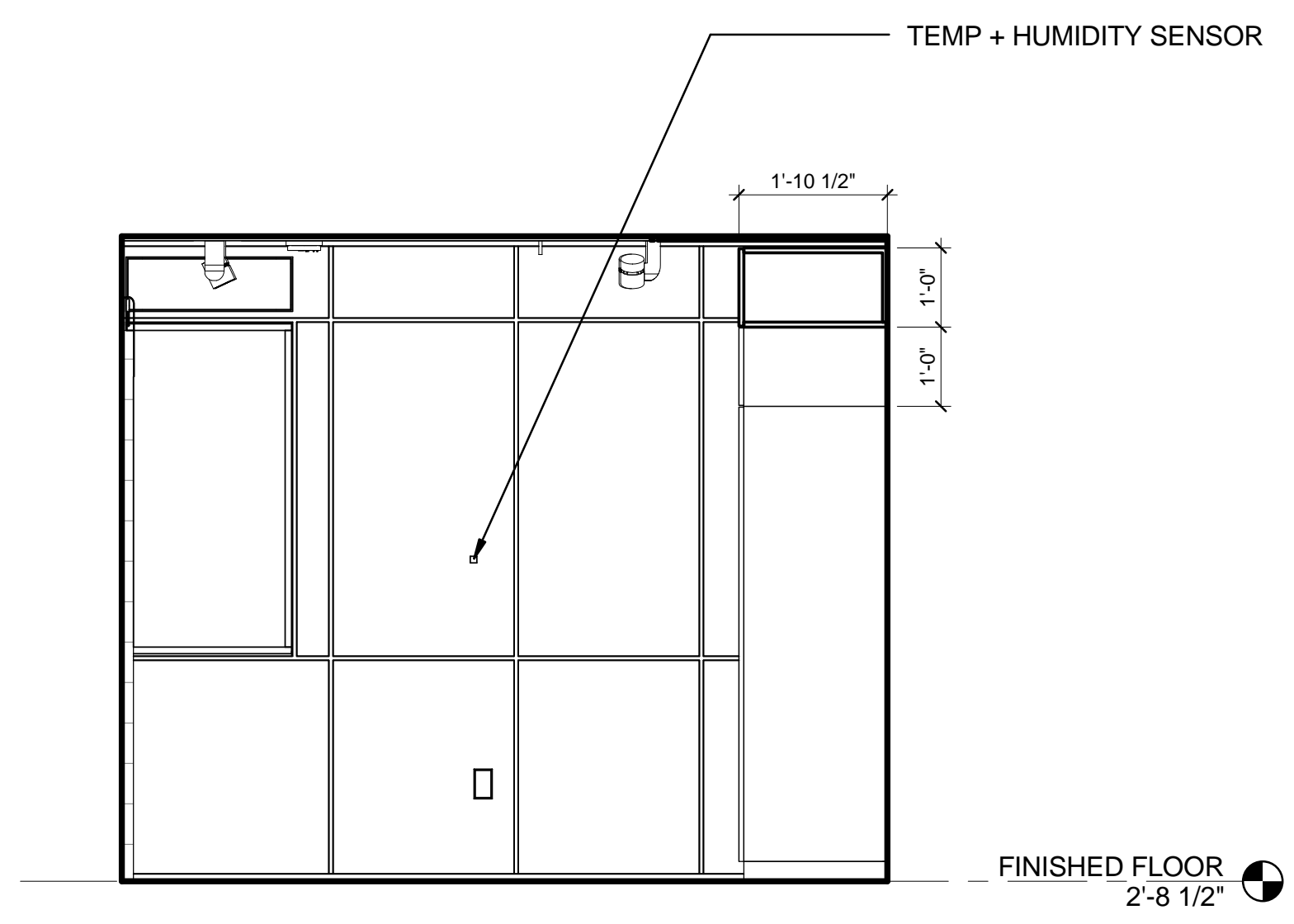
I-201



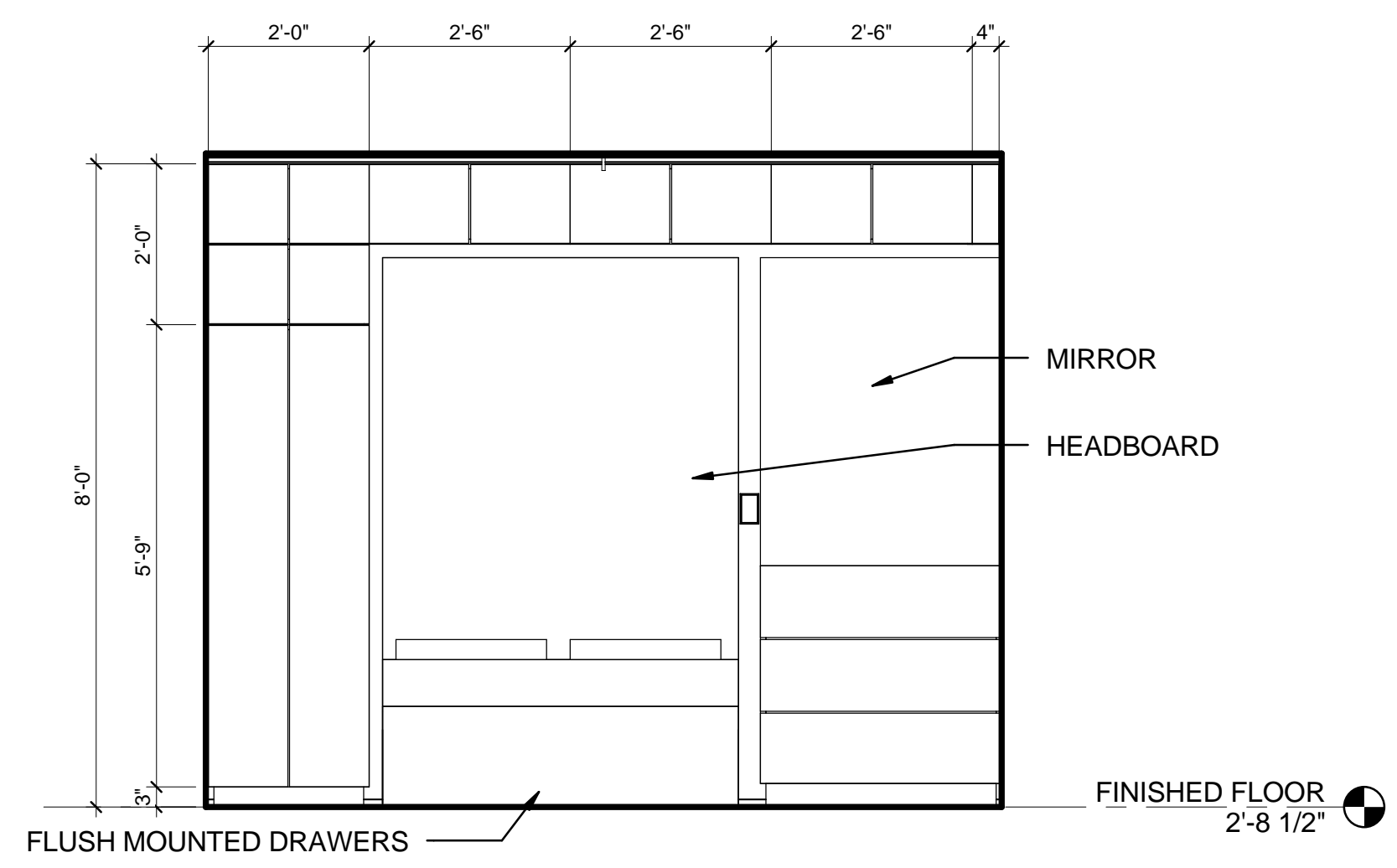
D1 I-201 ELEVATION BEDROOM - WEST
 1/2" = 1'-0"



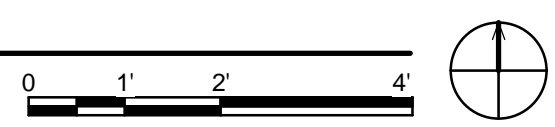
D5 I-201 ELEVATION BEDROOM - NORTH
 1/2" = 1'-0"

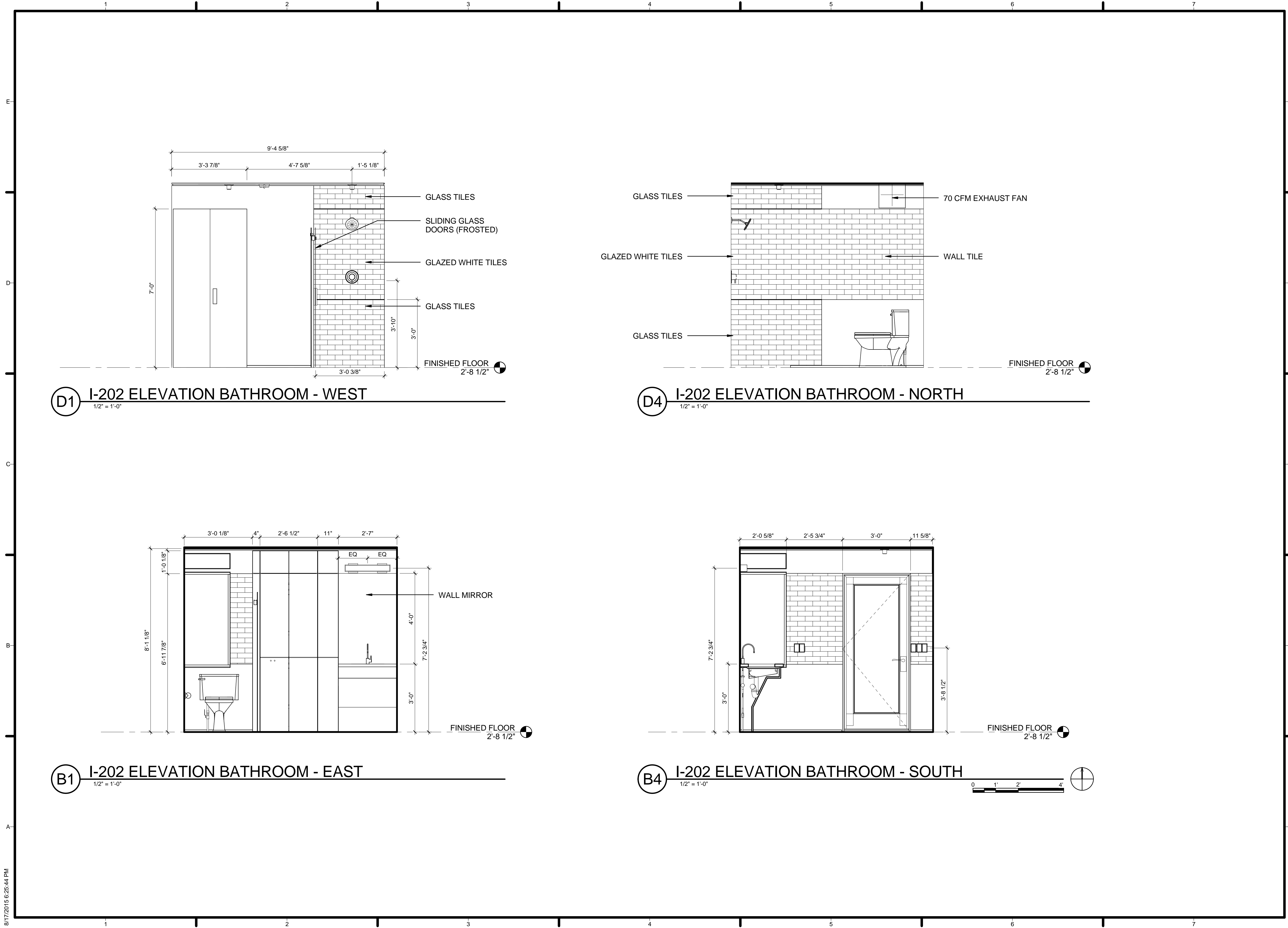


B1 I-201 ELEVATION BEDROOM - EAST
 1/2" = 1'-0"



B5 I-201 ELEVATION BEDROOM - SOUTH
 1/2" = 1'-0"



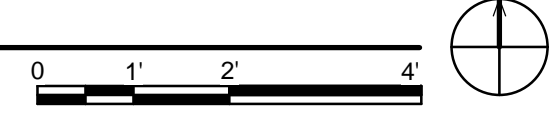


D1 I-202 ELEVATION BATHROOM - WEST
1/2" = 1'-0"

D4 I-202 ELEVATION BATHROOM - NORTH
1/2" = 1'-0"

B1 I-202 ELEVATION BATHROOM - EAST
1/2" = 1'-0"

B4 I-202 ELEVATION BATHROOM - SOUTH
1/2" = 1'-0"



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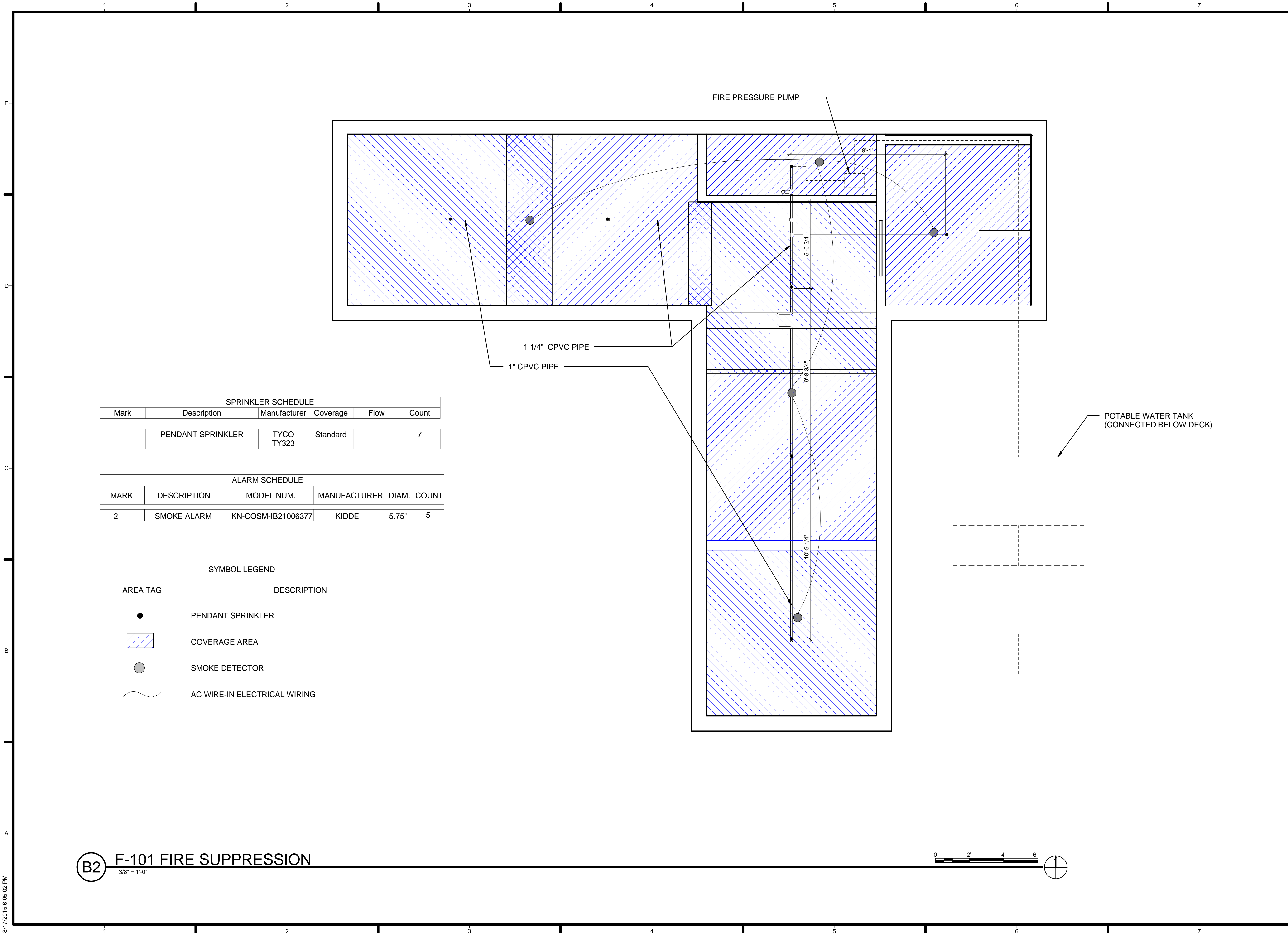


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INTERIOR ELEVATION
 BATHROOM

I-202



SPRINKLER SCHEDULE					
Mark	Description	Manufacturer	Coverage	Flow	Count
	PENDANT SPRINKLER	TYCO TY323	Standard		7

ALARM SCHEDULE					
MARK	DESCRIPTION	MODEL NUM.	MANUFACTURER	DIAM.	COUNT
2	SMOKE ALARM	KN-COSM-IB21006377	KIDDE	5.75"	5

SYMBOL LEGEND	
AREA TAG	DESCRIPTION
	PENDANT SPRINKLER
	COVERAGE AREA
	SMOKE DETECTOR
	AC WIRE-IN ELECTRICAL WIRING



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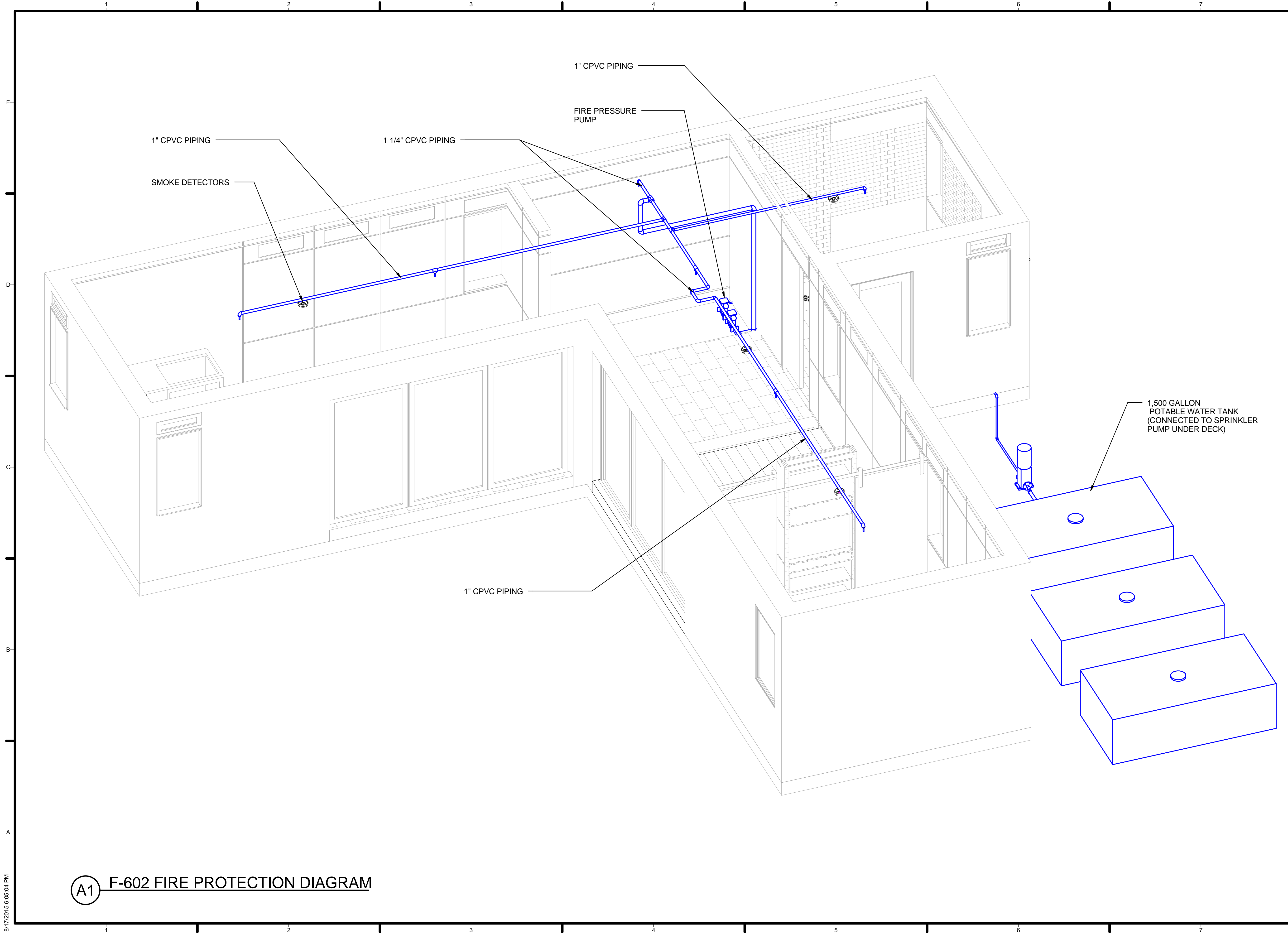
SHEET TITLE
**FIRE DETECTION,
 SUPPRESSION, ALARM**

F-101

B2 F-101 FIRE SUPPRESSION
 3/8" = 1'-0"



8/17/2015 6:05:02 PM



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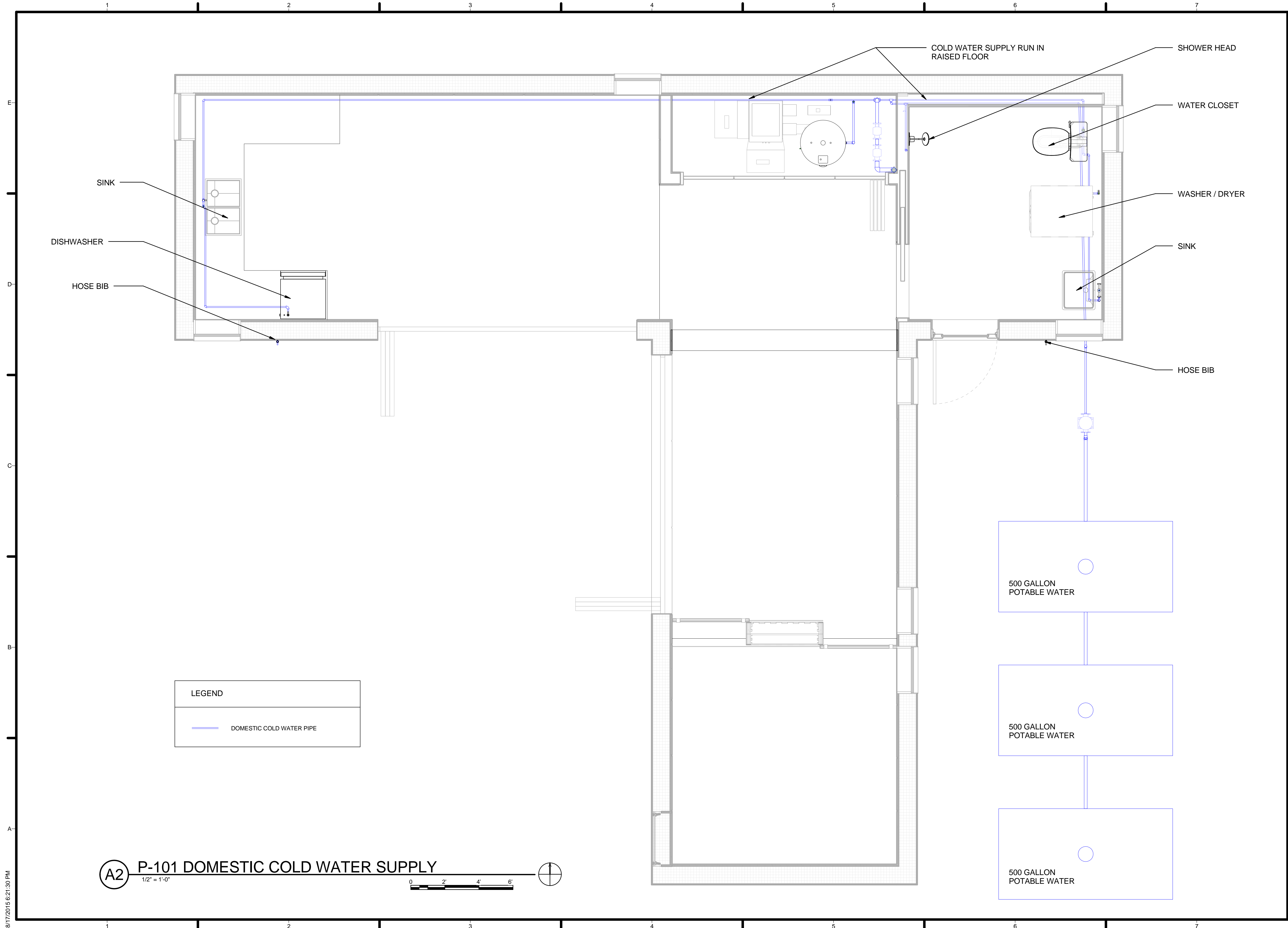
CONSTRUCTION DOCUMENTS
 SHEET TITLE

FIRE PROTECTION
 DIAGRAMS

F-602

(A1) F-602 FIRE PROTECTION DIAGRAM

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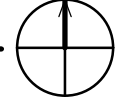
SHEET TITLE
 DOMESTIC COLD WATER SUPPLY

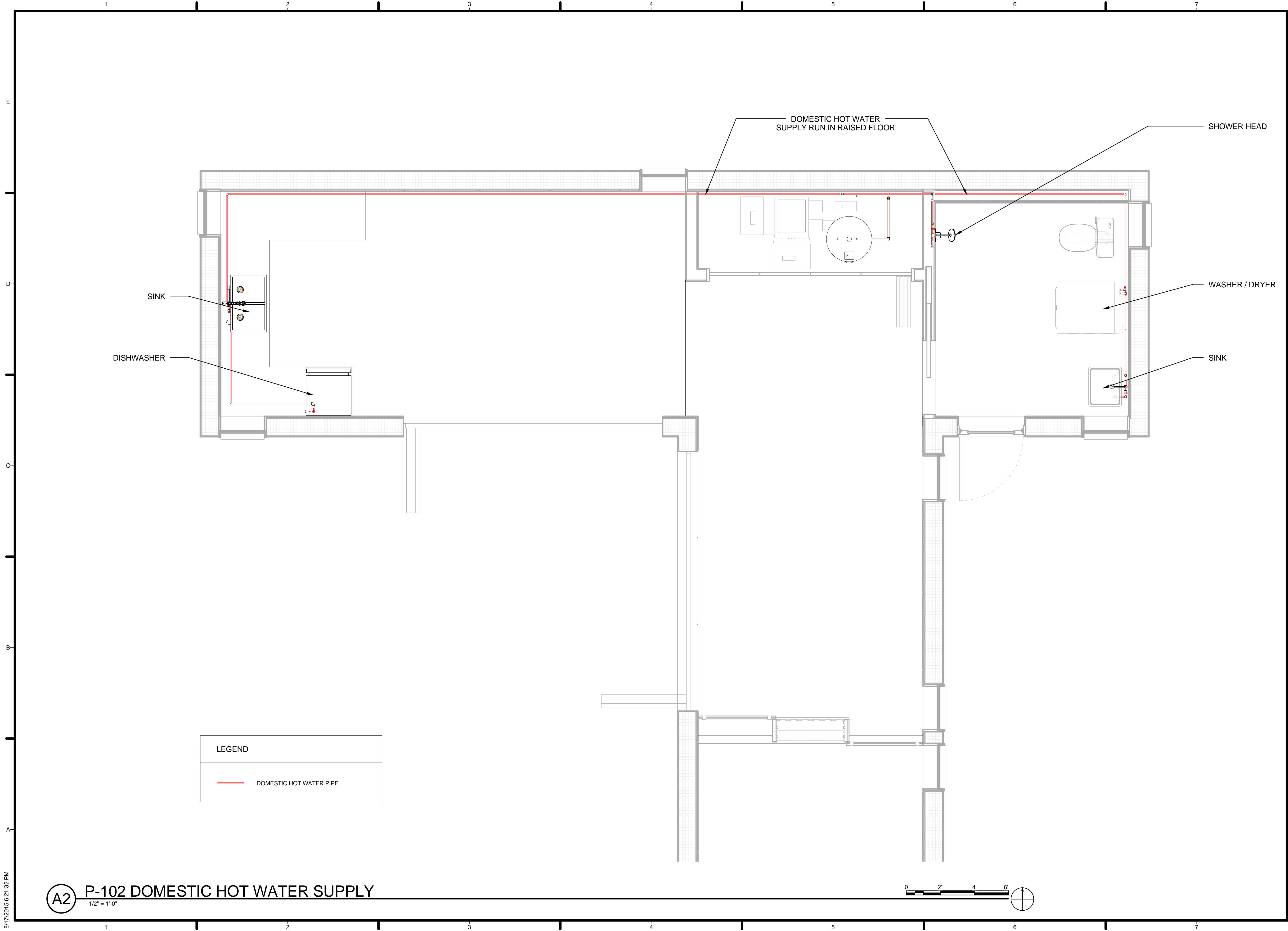
P-101

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A2 P-101 DOMESTIC COLD WATER SUPPLY

1/2" = 1'-0"





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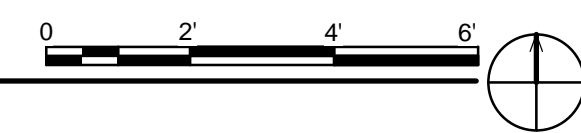
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SHEET TITLE

DOMESTIC HOT WATER SUPPLY

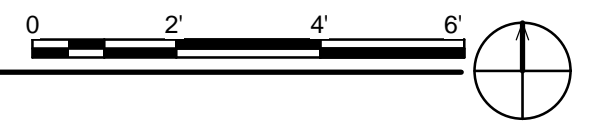
P-102





LEGEND	
	SANITARY RETURN PIPE

① P-103 SANITARY RETURN
1/2" = 1'-0"



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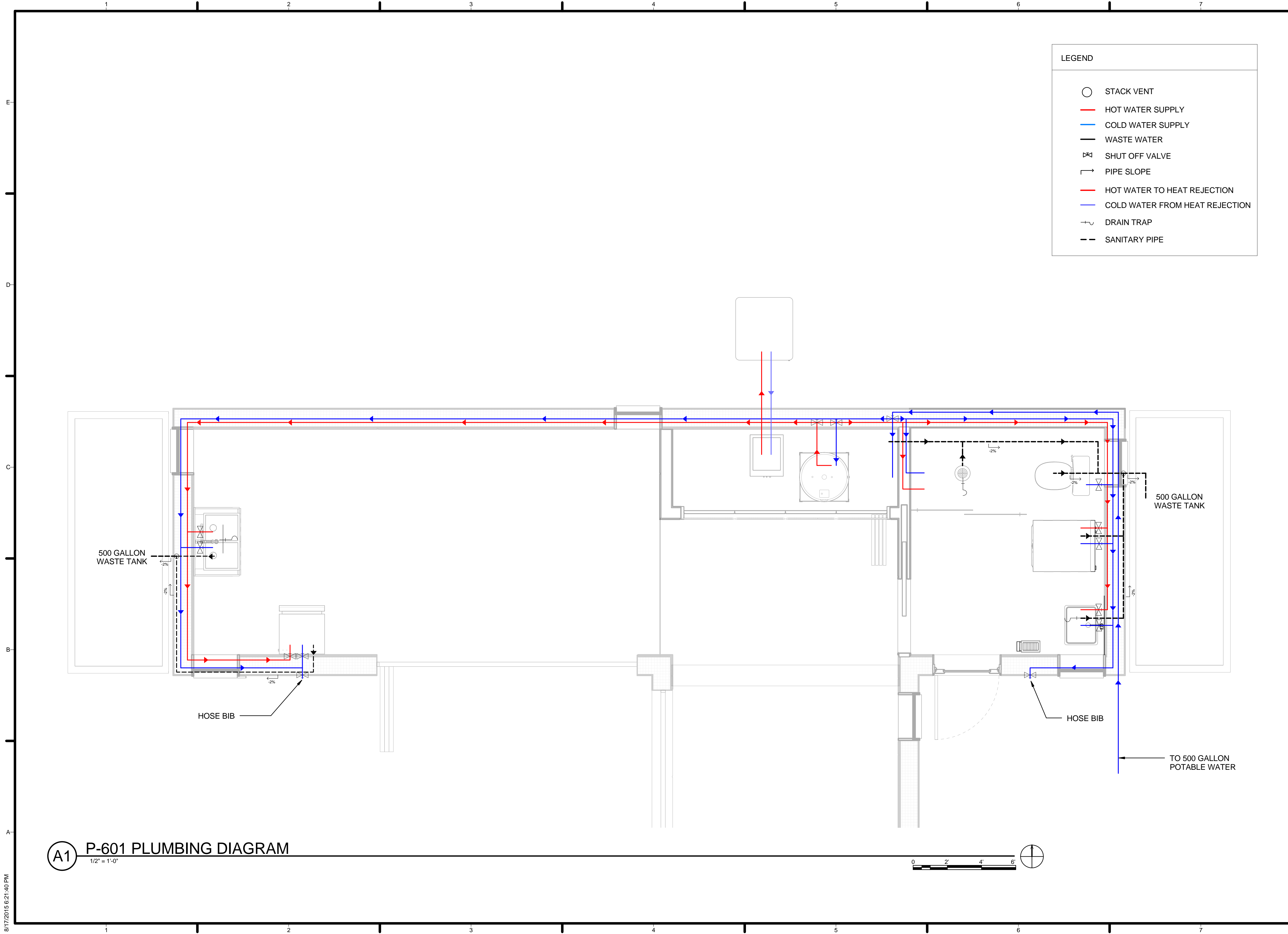
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SHEET TITLE
 SANITARY RETURN

P-103

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A1 P-601 PLUMBING DIAGRAM

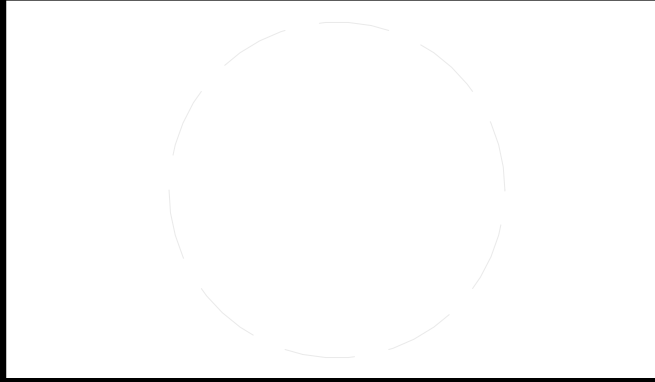
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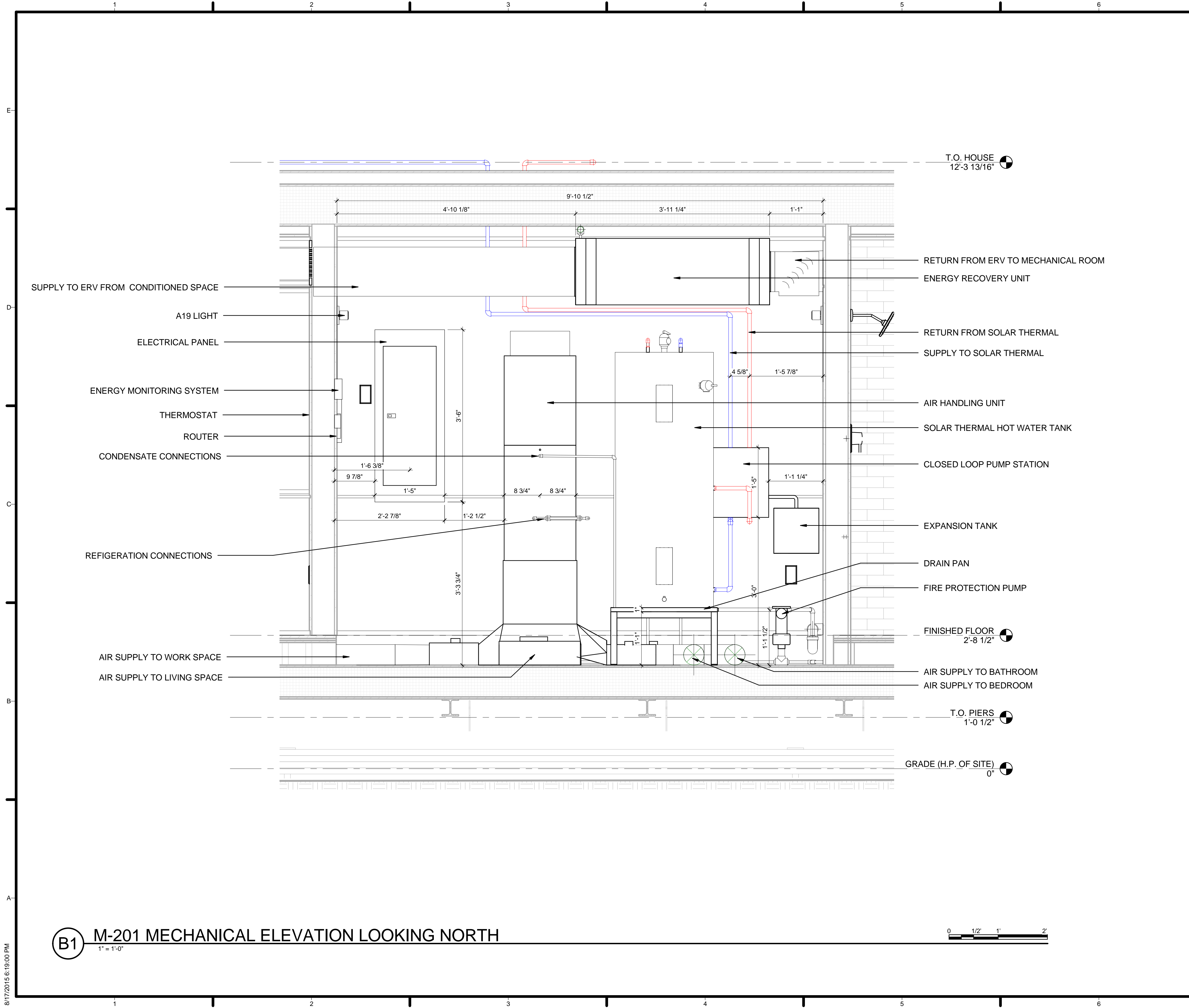
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CONSTRUCTION DOCUMENTS
 SHEET TITLE

PLUMBING DIAGRAM

P-601



GENERAL SHEET NOTES

1 MECHANICAL ROOM IS UNFINISHED

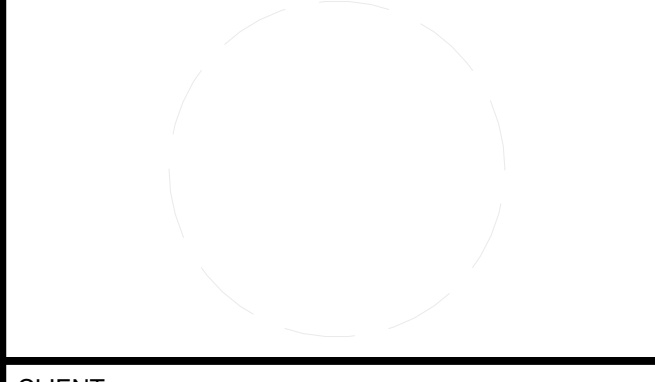
REFERENCE KEYNOTES

SHEET KEYNOTES



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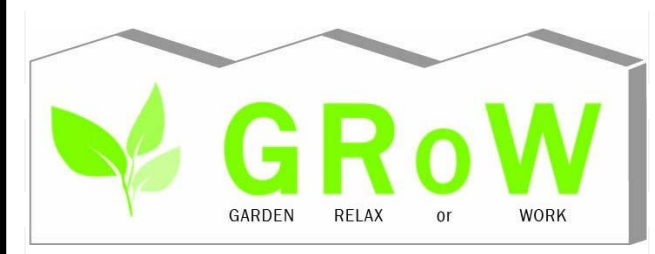
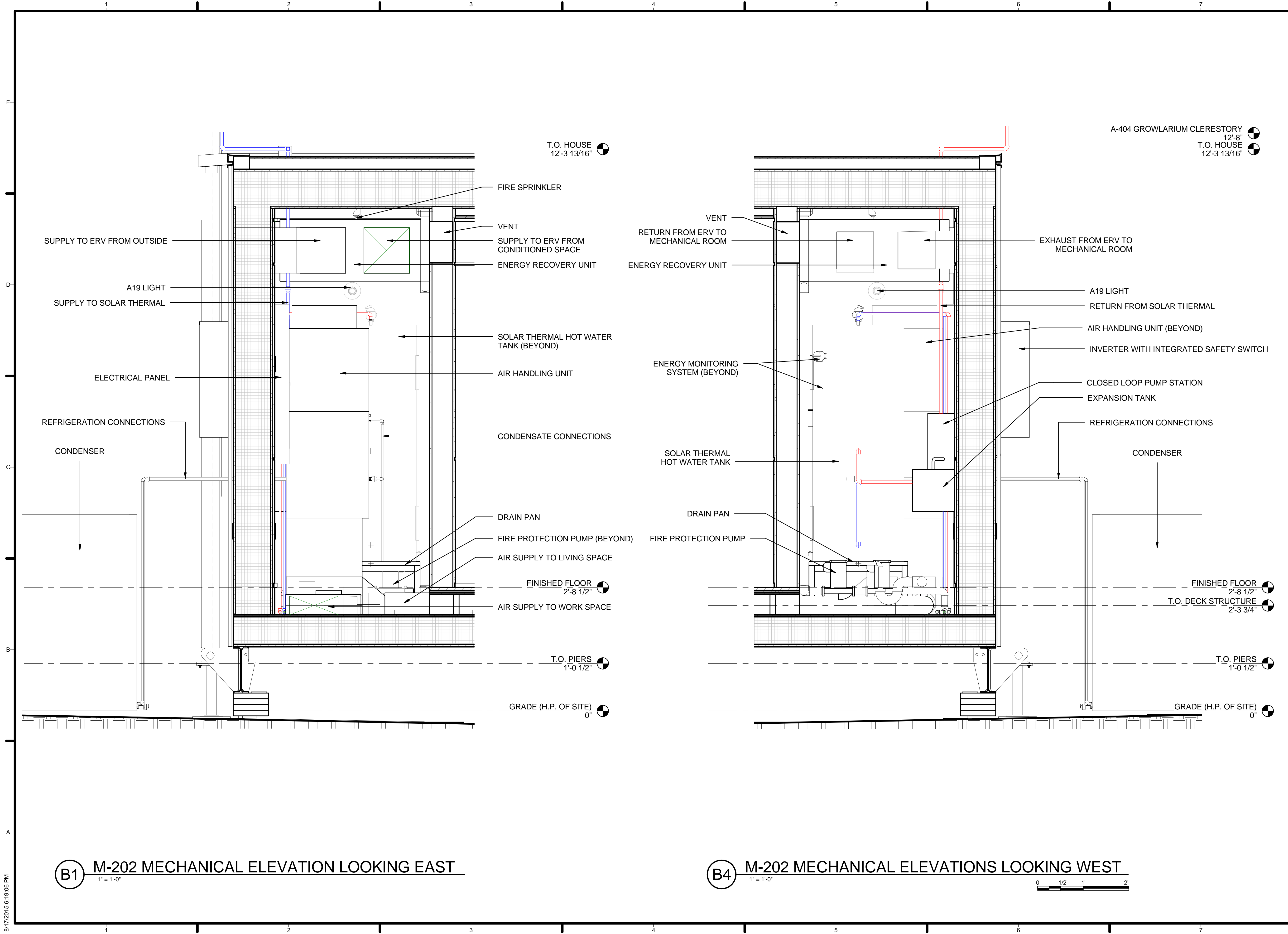
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MECHANICAL ELEVATIONS

M-201

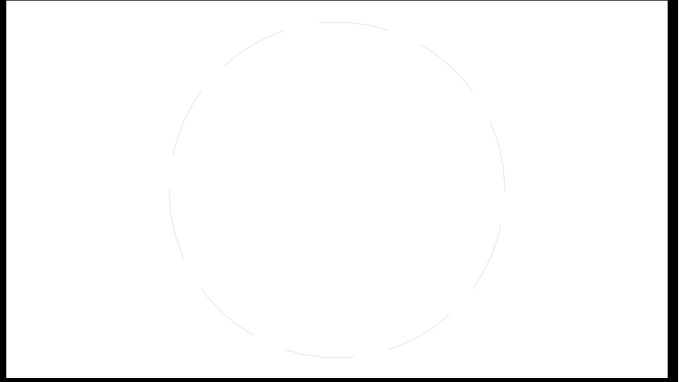
B1 M-201 MECHANICAL ELEVATION LOOKING NORTH
1" = 1'-0"

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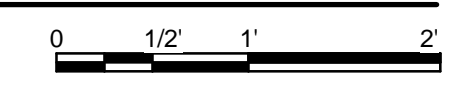
CONSTRUCTION DOCUMENTS
 SHEET TITLE

MECHANICAL
 ELEVATIONS

M-202

B1 M-202 MECHANICAL ELEVATION LOOKING EAST
 1" = 1'-0"

B4 M-202 MECHANICAL ELEVATIONS LOOKING WEST
 1" = 1'-0"



8/17/2015 6:19:06 PM

Notes

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

Suggested Controller Settings
(refer also to controller manual)

Control System Setting: 1

Function Settings

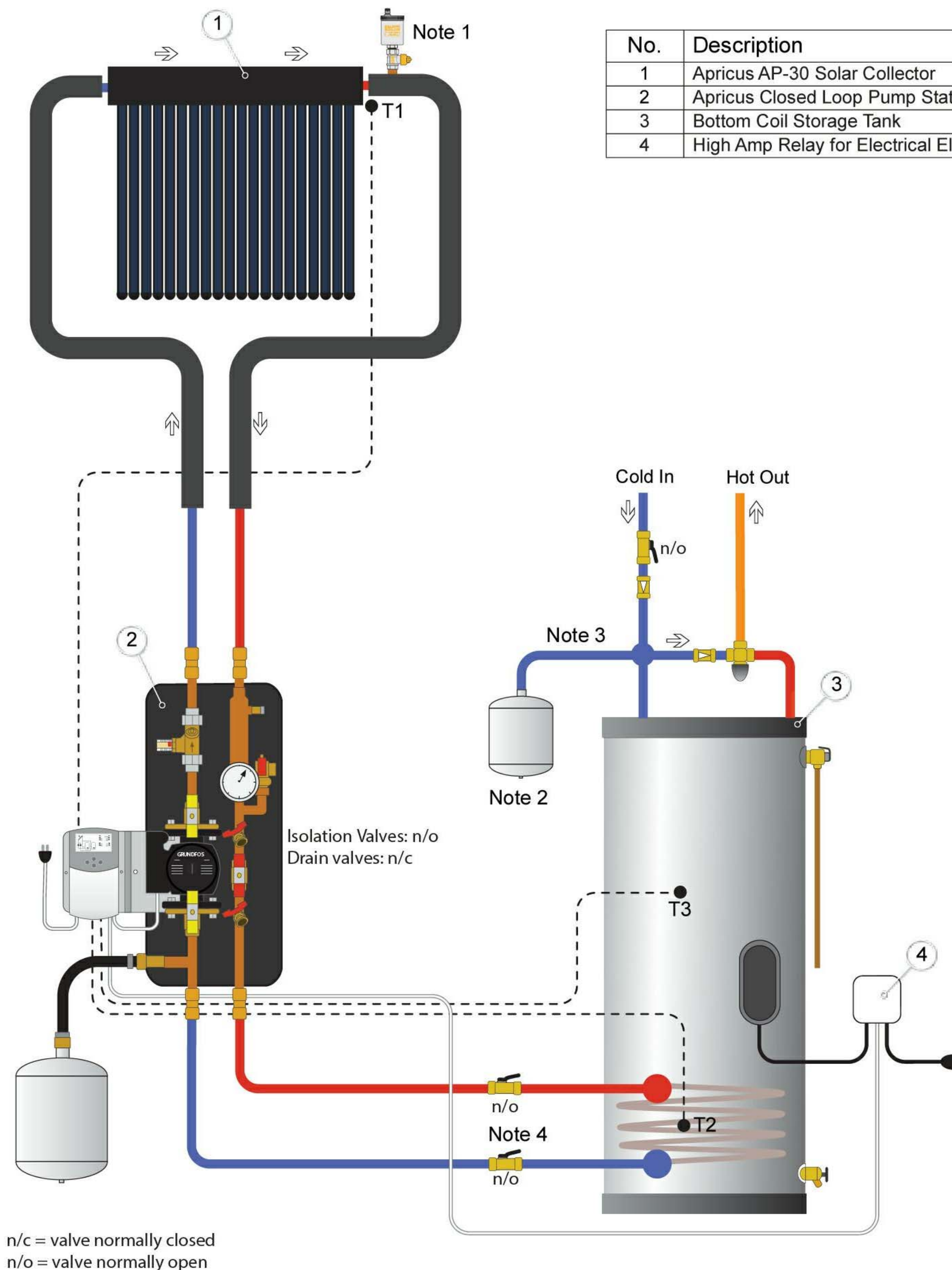
- Protection Functions
- Max Temp = no
 - Cooling = no
 - Overheat protection = no
 - Freeze protection = yes (-40oF)
- Flow Meter = enter flow rate (gal/min)
Pump P1 = PhAC SC

Setting Menu

- Maxtemp tank1 = 176oF
- dtMax tank1 = 20oF
- dtMin tank1 = 5oF
- Min rev pump = 50%
- Mintemp Collector = 85oF

Extra Functions

- Thermostat Function
- Start = 125oF
 - Hysteresis = 30oF



No.	Description
1	Apricus AP-30 Solar Collector
2	Apricus Closed Loop Pump Station
3	Bottom Coil Storage Tank
4	High Amp Relay for Electrical Element

n/c = valve normally closed
n/o = valve normally open



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













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CONSTRUCTION DOCUMENTS

SHEET TITLE
SOLAR THERMAL DIAGRAMS

M-603

SYMBOL LEGEND

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

ABBREVIATION LIST

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

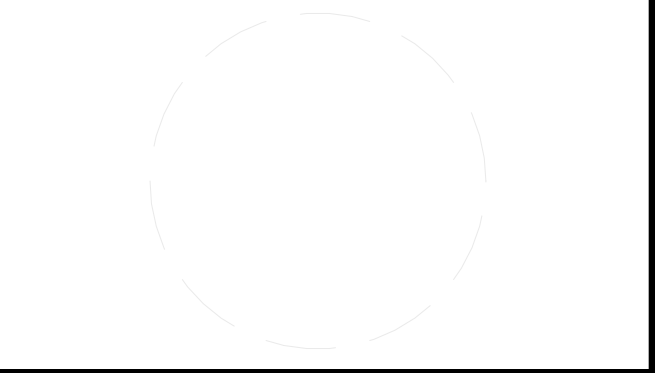
ELECTRICAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO NEC, NFC, IRC, AND SDBC.
2. MINIMUM WIRE SIZE FOR AC LOADS SHALL BE #14 AWG.
3. MAXIMUM LOAD FOR ALL BRANCH CIRCUITS IS 80%.
4. ALL EXTERIOR OUTLETS MUST BE TYPE GROUND FAULT OR SUPPLIED BY A GROUND FAULT BREAKER.
5. ALL EXTERIOR OUTLETS MUST HAVE WATERPROOF COVERS AS SPECIFIED IN NEC 406.8.
6. ALL INSIDE NON-LOCKING 120V 15 AND 20 AMP RECEPTACLES SHALL BE TAMPER RESISTANT AS SPECIFIED IN NEC 406.12.
7. ALL INSIDE 120V 15 AND 20 AMP CIRCUITS SHALL HAVE AFCI CIRCUIT BREAKER AS SPECIFIED IN NEC 210.12.
8. ALL BATHROOMS, OUTDOOR SPACES, CRAWLSPACES, KITCHENS, LAUNDRY ROOMS, UTILITY ROOMS, AND WET BAR SINK ROOMS WITH 120V 15 AND 20 AMP CIRCUITS SHALL HAVE GFCI PROTECTION AS SPECIFIED IN NEC 210.8.
9. ALL ELECTRICAL EQUIPMENT WILL CARRY AN APPROVED TESTING AGENCY'S LISTING OR SHALL HAVE BEEN APPROVED BY THE SOLAR DECATHLON BUILDING OFFICIAL AND SOLAR DECATHLON ELECTRICAL INSPECTORS FOR TEMPORARY USE DURING THE EVENT IN ACCORDANCE WITH SECTION 104.11 OF THE IRC AND SECTION 110.2 OF THE NEC.
10. ARTICLES 240, 250, 310, 400, 445, 480, 690 AND 705 OF THE SHOULD BE REFERENCED FOR PV PANEL DESIGN AND INSTALLATION AS SPECIFIED IN SDBC 6-8.
11. A GROUNDING ELECTRODE CONDUCTOR OF MINIMUM SIZE #4 AWG, COPPER, WILL BE PROVIDED AS A CONNECTION BETWEEN THE DWELLING'S MAIN SERVICE EQUIPMENT TO THE ORGANIZERS UTILITY PANEL AS SPECIFIED IN SDBC 6-9.
13. A DISCONNECTION MECHANISM WILL BE INSTALLED BETWEEN THE INVERTER AND THE SOLAR ARRAY THAT IS CAPABLE OF READY LOCKOUT/TAGOUT AS SPECIFIED IN SDBC 6-10.



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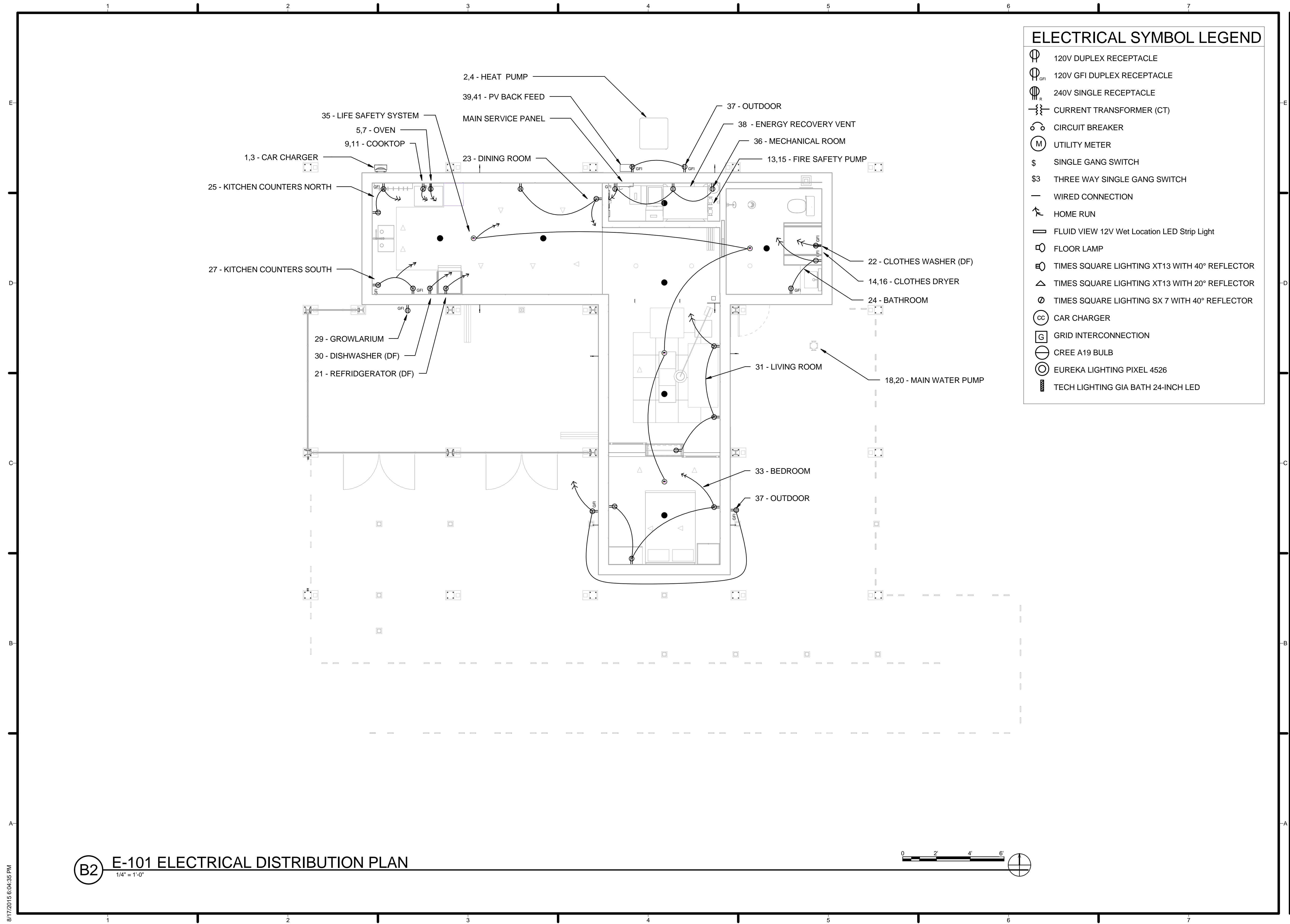
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CONSTRUCTION DOCUMENTS

SHEET TITLE

ELECTRICAL SYMBOLS AND NOTES

E-001

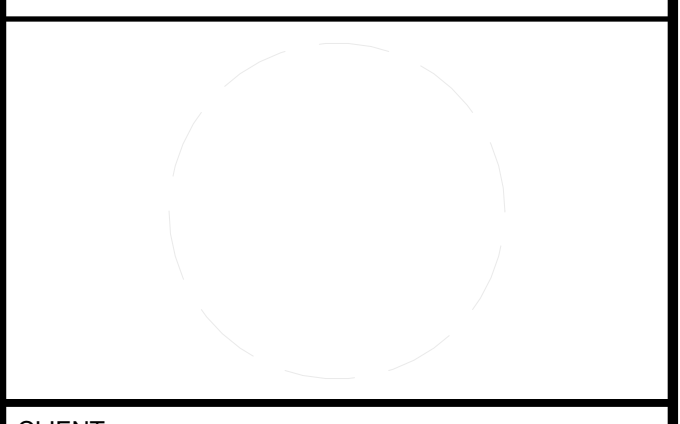


ELECTRICAL SYMBOL LEGEND


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

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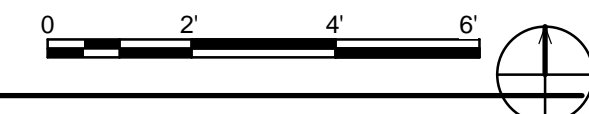
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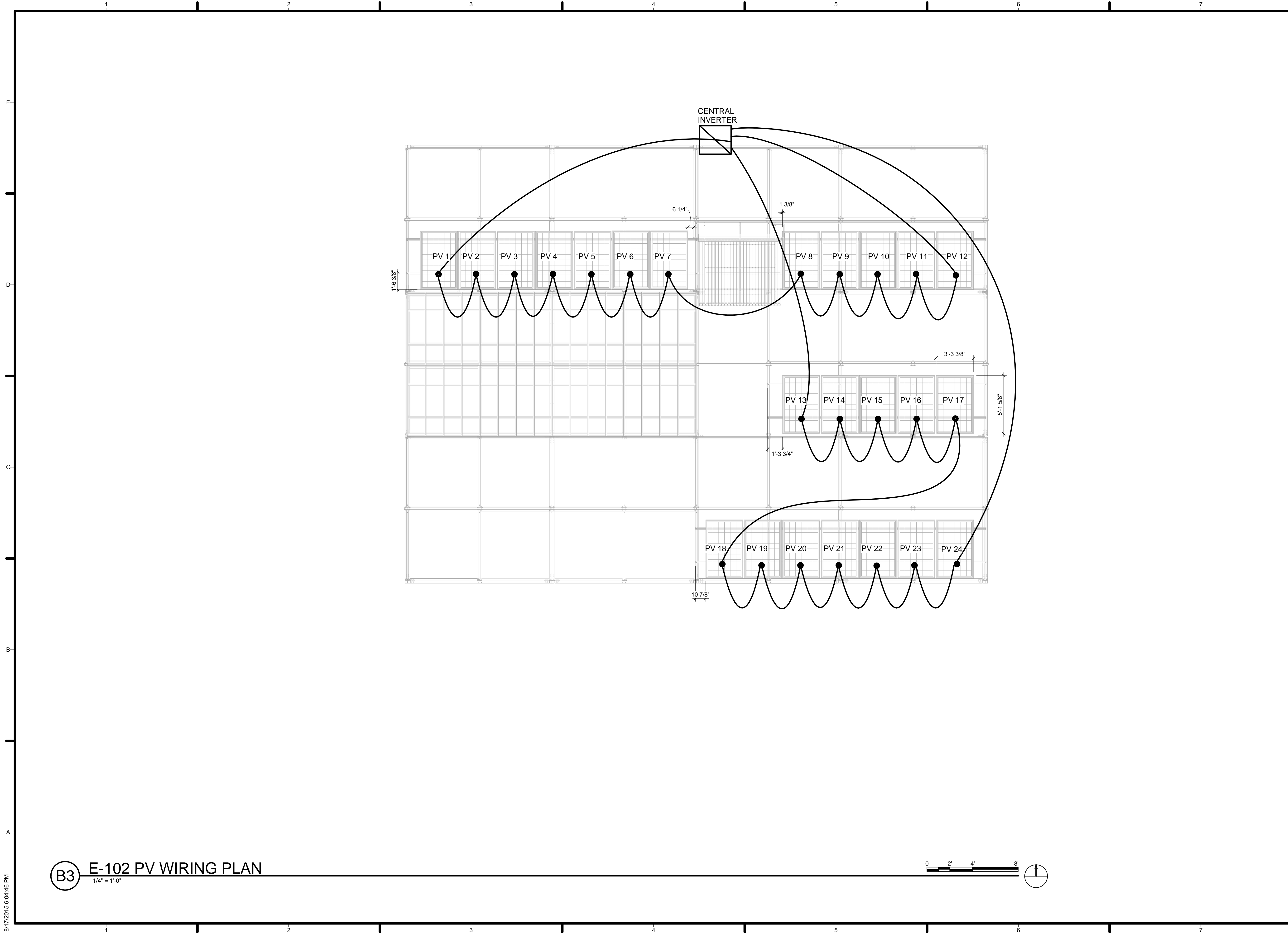
ELECTRICAL DISTRIBUTION PLAN

E-101

B2 E-101 ELECTRICAL DISTRIBUTION PLAN
 1/4" = 1'-0"

8/17/2015 6:04:35 PM





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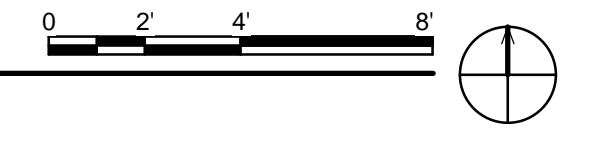
CONSTRUCTION DOCUMENTS

SHEET TITLE

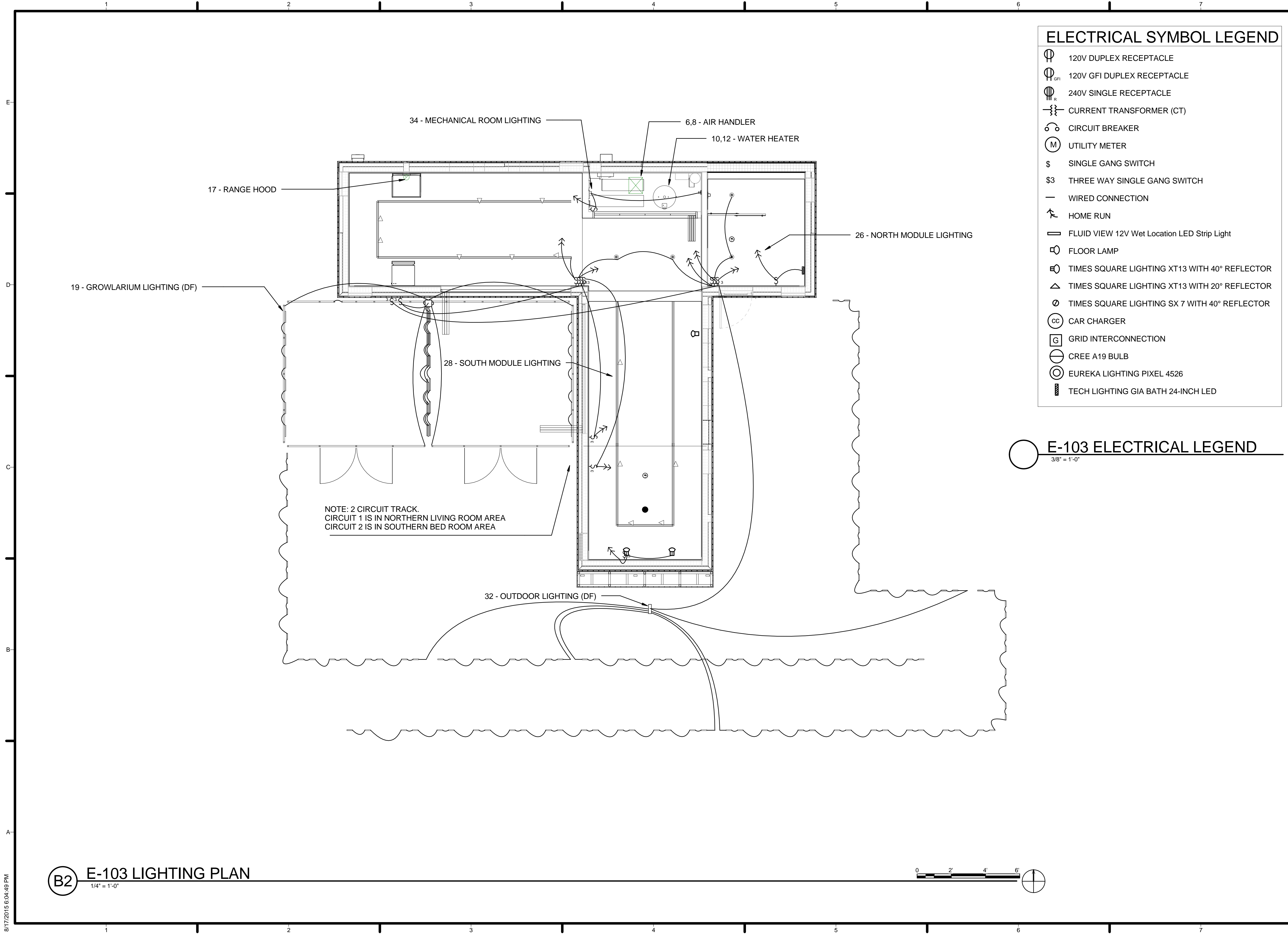
PV WIRING PLAN

E-102

B3 E-102 PV WIRING PLAN
 1/4" = 1'-0"



8/17/2015 6:04:46 PM




ELECTRICAL SYMBOL LEGEND

- 120V DUPLEX RECEPTACLE
- 120V GFI DUPLEX RECEPTACLE
- 240V SINGLE RECEPTACLE
- CURRENT TRANSFORMER (CT)
- CIRCUIT BREAKER
- UTILITY METER
- SINGLE GANG SWITCH
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- TIMES SQUARE LIGHTING SX 7 WITH 40° REFLECTOR
- CAR CHARGER
- GRID INTERCONNECTION
- CREE A19 BULB
- EUREKA LIGHTING PIXEL 4526
- TECH LIGHTING GIA BATH 24-INCH LED

E-103 ELECTRICAL LEGEND
3/8" = 1'-0"


B2 E-103 LIGHTING PLAN
1/4" = 1'-0"



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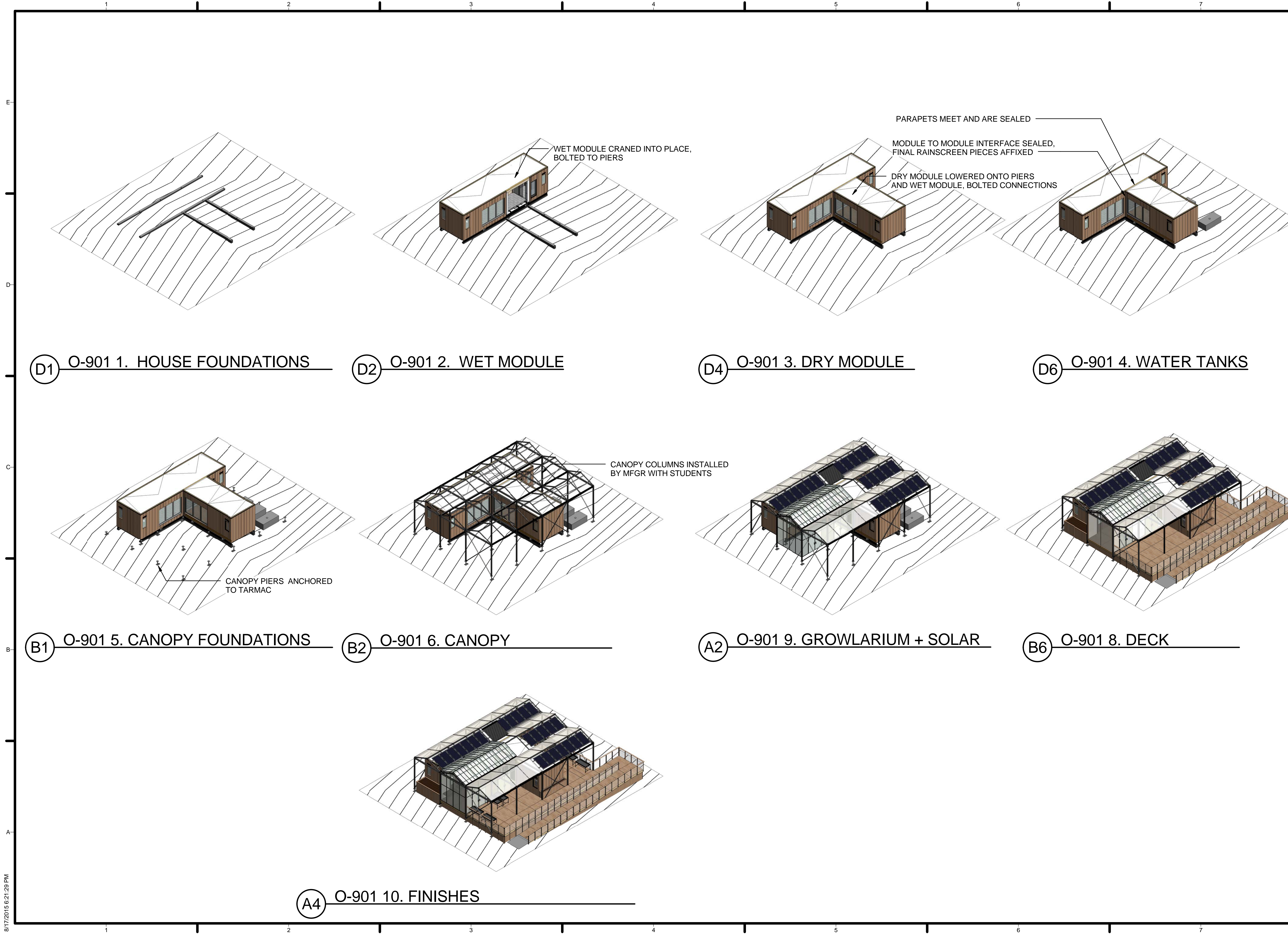
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CONSTRUCTION DOCUMENTS

SHEET TITLE
LIGHTING PLAN

E-103

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1	11/14/14	DD DRAFT 2
3	2/10/15	CD DRAFT 2

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ASSEMBLY SEQUENCE
 AXONOMETRICS

O-901

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