

SYMBOL LEGEND	
MARK	DESCRIPTION
Name Elevation	LEVEL MARKER
	SECTION TAG
	INTERIOR ELEVATION TAG
	EXTERIOR ELEVATION TAG
	CALLOUT HEAD
101	DOOR TAG
	WINDOW TAG
06 11 00.D1	REFERENCE KEYNOTE TAG
	SHEET KEYNOTE TAG
Room name 101	ROOM TAG
	SPRINKLER HEAD
	FIRE EXTINGUISHER

SHEET LIST		
SHT NO	SHEET NAME	-NCS- Sheet Ordering
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A-603	CASEWORK	
A-604	CASEWORK	
A-605	CASEWORK	
A-606	CASEWORK	
A-607	CASEWORK	
A-608	CASEWORK	
A-801	SCHEDULES	
L-603	PLANTERS	
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A-701	UTILITY CORE ELEVATIONS	1500 - LANDSCAPE
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S-401	DECK FRAMING PLAN	1600 - STRUCTURAL
S-410	SOUTH PLANTER PLAN	1600 - STRUCTURAL
S-411	GREYWATER PLANTERS	1600 - STRUCTURAL
S-412	BENCH AND DECK PLANTERS	1600 - STRUCTURAL
S-420	WATER TANK AND COMPRESSOR DETAIL	1600 - STRUCTURAL
S-501	UTILITY CORE	1600 - STRUCTURAL
S-502	PERGOLA DETAIL	1600 - STRUCTURAL
S-701	FOUNDATION DETAILS	1600 - STRUCTURAL
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A-112	FLOOR PLAN MODULE B	1700 - ARCHITECTURAL
A-113	FLOOR PLAN MODULE C	1700 - ARCHITECTURAL
A-115	ROOF PLAN	1700 - ARCHITECTURAL
A-121	FIRST FLOOR REFLECTED CEILING PLAN	1700 - ARCHITECTURAL
A-211	ELEVATIONS	1700 - ARCHITECTURAL
A-212	ELEVATIONS	1700 - ARCHITECTURAL
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A-601	CASEWORK	1700 - ARCHITECTURAL
P-101	DELIVERY AND REMOVAL SCHEMATIC	2100 - PLUMBING

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P-104	STORMWATER	2100 - PLUMBING
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M-101	HVAC EQUIPMENT AND DISTRIBUTION PLAN	2300 - MECHANICAL
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M-603	SOLAR WATER DIAGRAMS	2300 - MECHANICAL
E-101	ELECTRICAL DISTRIBUTION PLAN	2400 - ELECTRICAL
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Z-107	HENSELSTONE SHOP DRAWINGS	2800-CONTRACTOR/SHOP DRAWINGS
Z-108	HENSELSTONE SHOP DRAWINGS	2800-CONTRACTOR/SHOP DRAWINGS
Z-109	HAVEN SHOP DRAWINGS	2800-CONTRACTOR/SHOP DRAWINGS
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Z-208	PERGOLA DETAIL - STAMPED	2800-CONTRACTOR/SHOP DRAWINGS
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TEAM TIDEWATER VIRGINIA  
Old Dominion University and Hampton University



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SHEET TITLE  
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P-101	DELIVERY AND REMOVAL SCHEMATIC
G-001	TABLE OF CONTENTS
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P-102	PLUMBING SCHEMATIC
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E-601-B	Riser Diagram
E-603	SOLAR PANEL DIAGRAM
E-604	THREE LINE DIAGRAM

SHEET LIST	
SHT NO	SHEET NAME

SHEET LIST	
SHT NO	SHEET NAME

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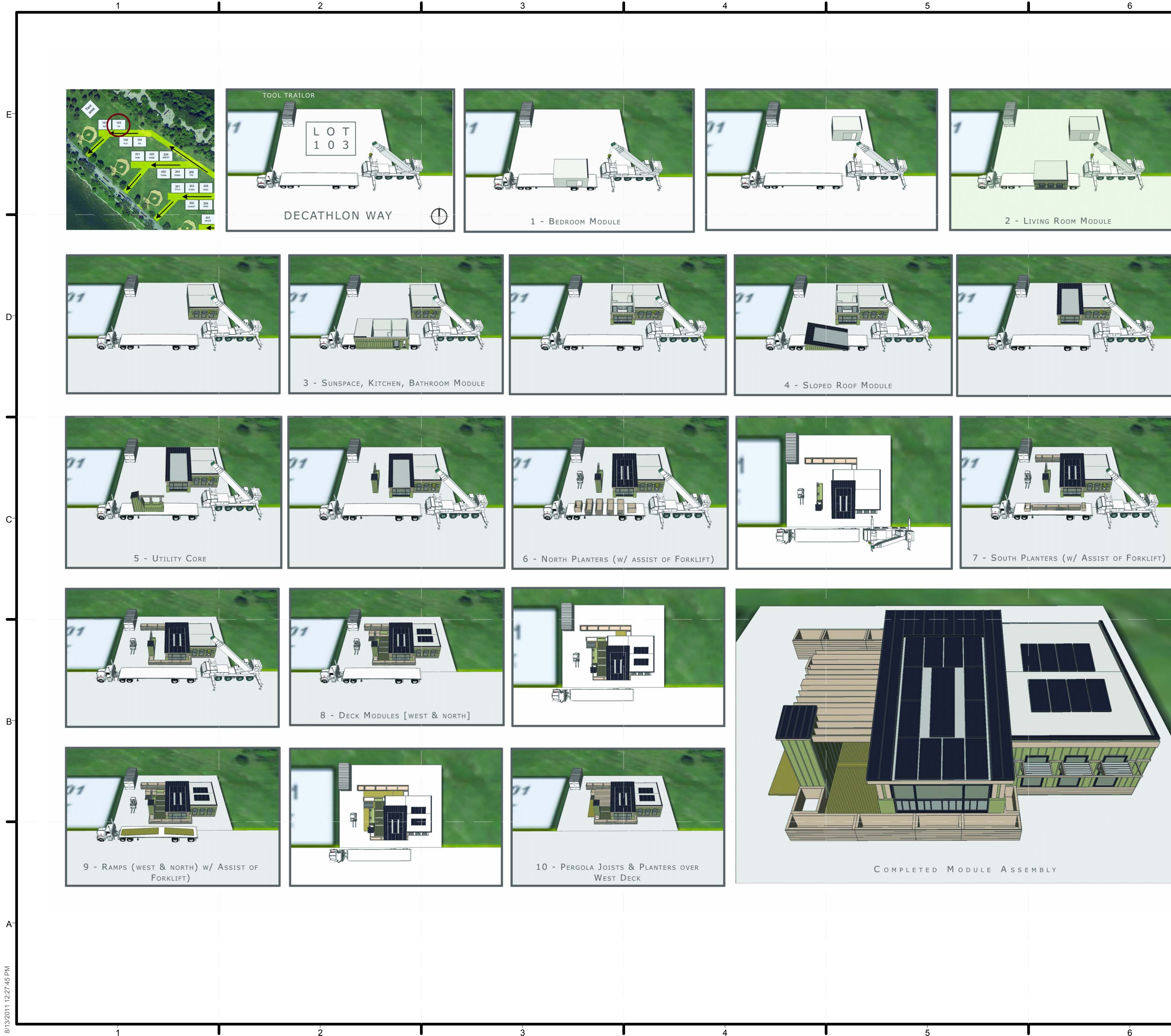
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**G-001**





**GENERAL SHEET NOTES**

1. 90 TON CRANE TO BE USED TO POSITION HOUSE MODULES
2. HONDA EU 3000iS GENERATOR TO BE USED TO POWER SITE OPERATIONS. NOISE LEVEL = 58 db AT RATED LOAD

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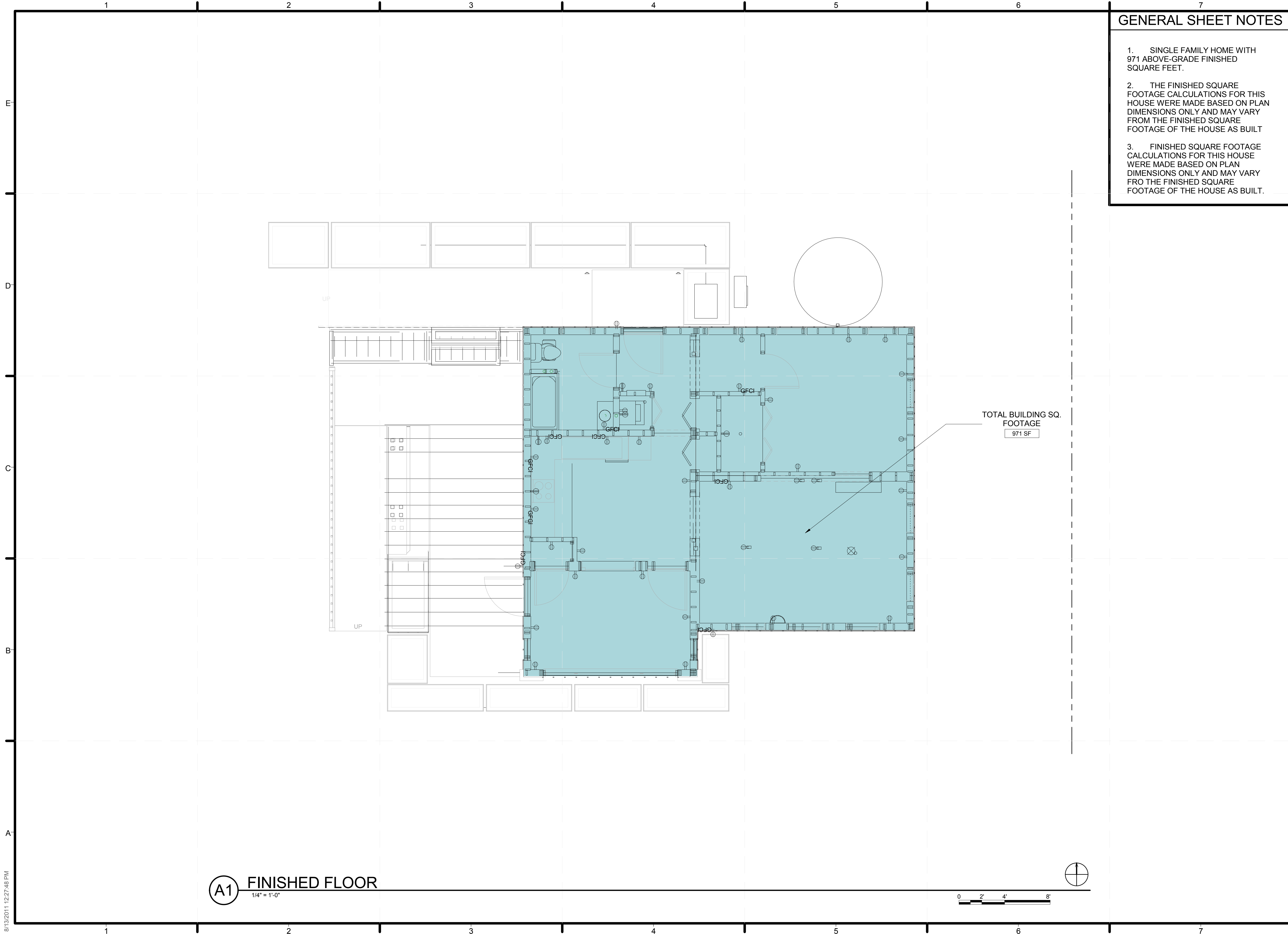
SHEET TITLE  
**ASSEMBLY PLAN**

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**G-004**

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**GENERAL SHEET NOTES**

1. SINGLE FAMILY HOME WITH 971 ABOVE-GRADE FINISHED SQUARE FEET.
2. THE FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT
3. FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FRO THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

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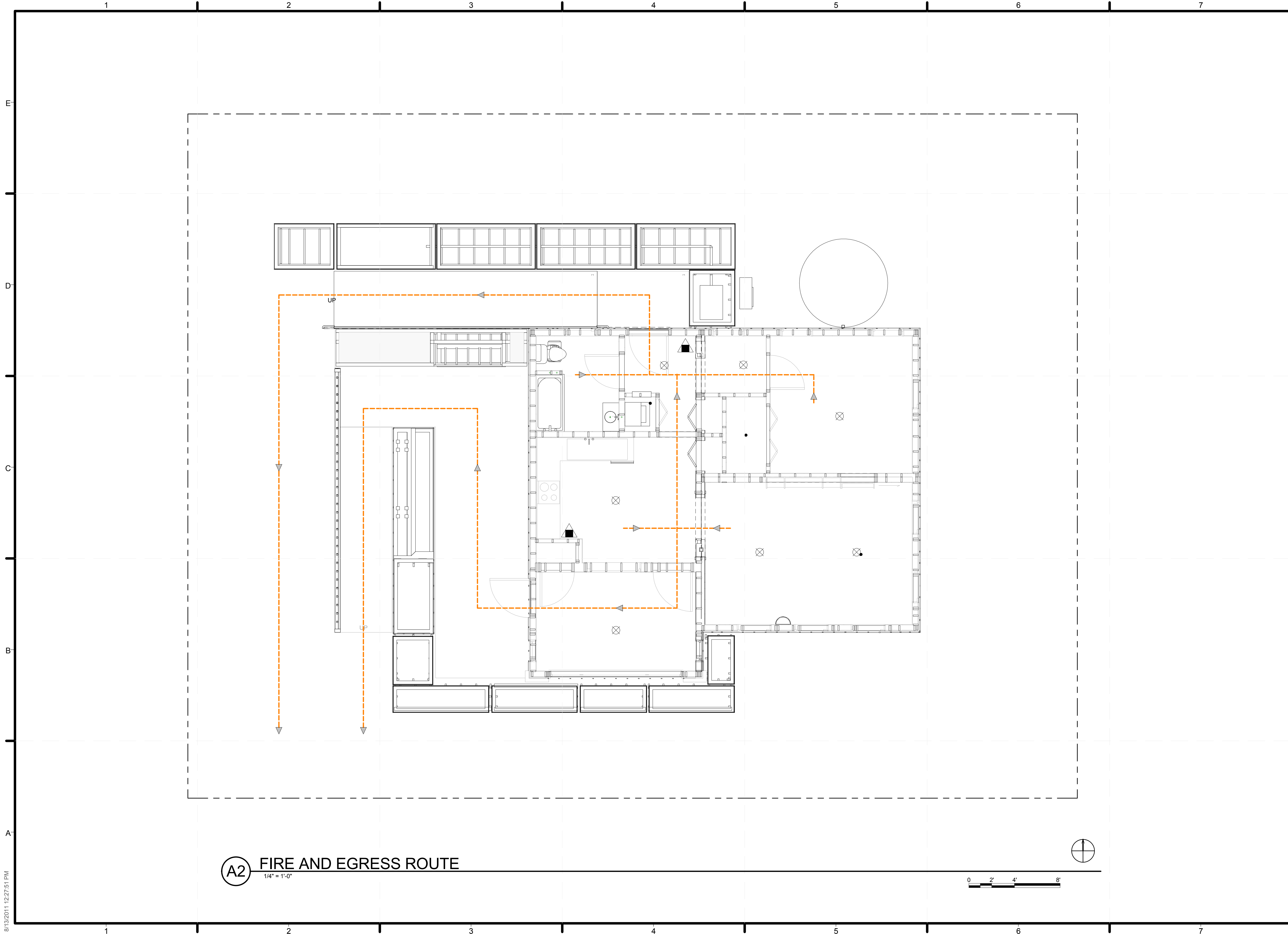
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SHEET TITLE  
**FINISHED SQUARE FOOTAGE COMPLIANCE PLAN**  
SHEET INDEX

**G-101**

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**(A2) FIRE AND EGRESS ROUTE**  
 1/4" = 1'-0"

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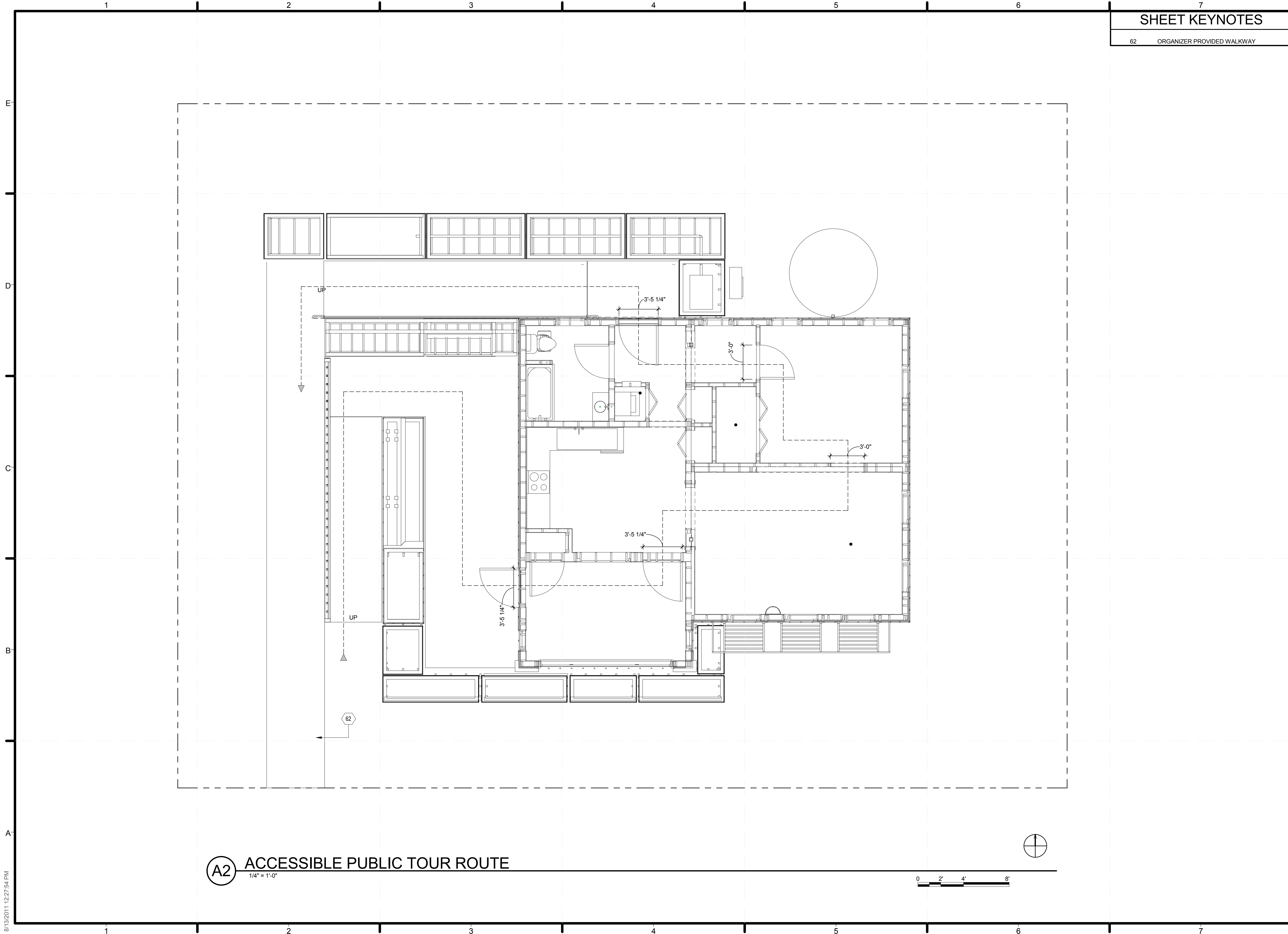
SHEET TITLE  
**EGRESS PLAN**

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**G-102**

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**SHEET KEYNOTES**

62 ORGANIZER PROVIDED WALKWAY

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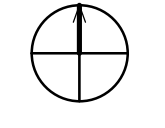
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SHEET TITLE  
**ADA TOUR ROUTE COMPLIANCE PLAN**

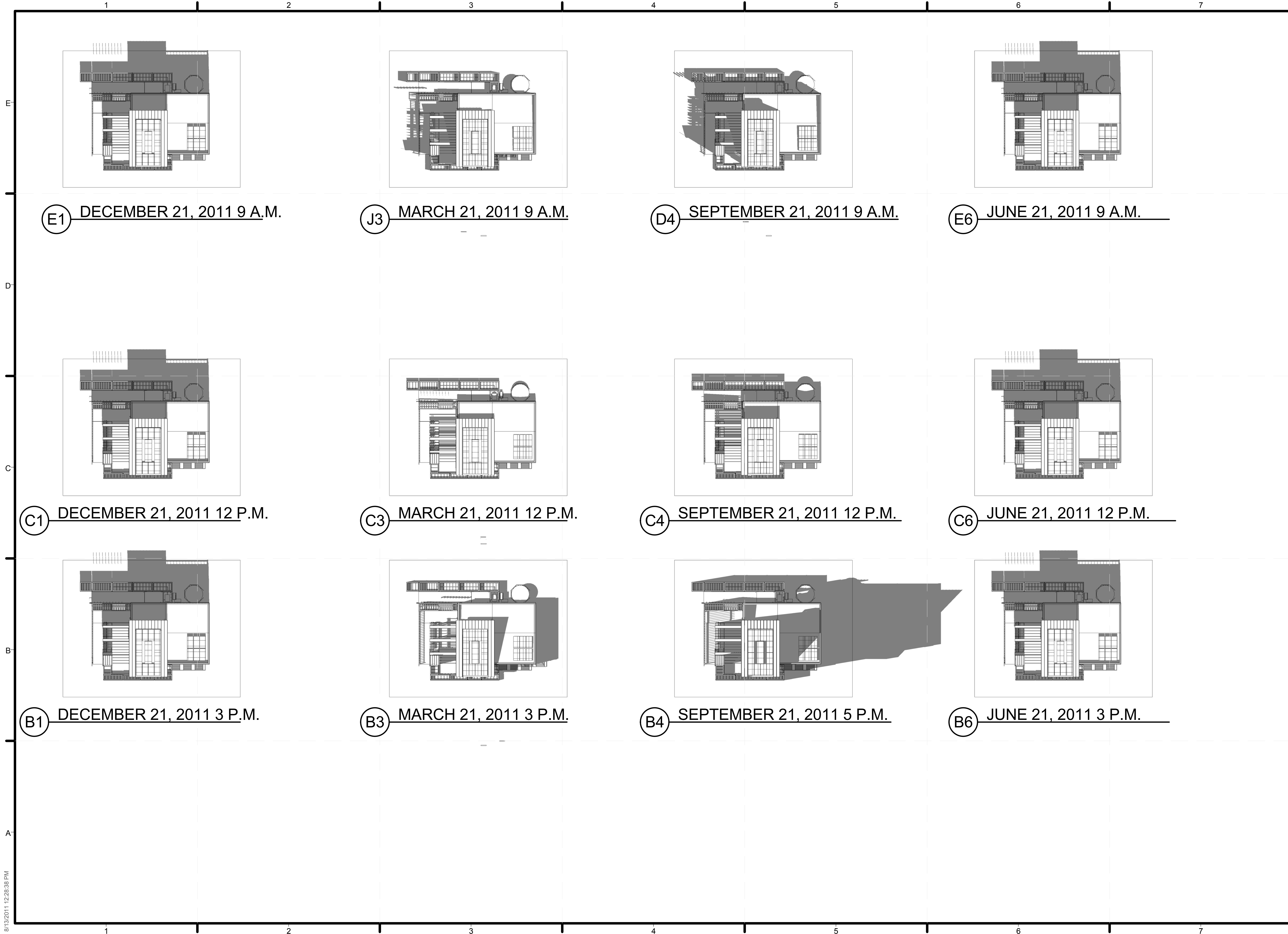
**G-103**

**A2 ACCESSIBLE PUBLIC TOUR ROUTE**  
1/4" = 1'-0"



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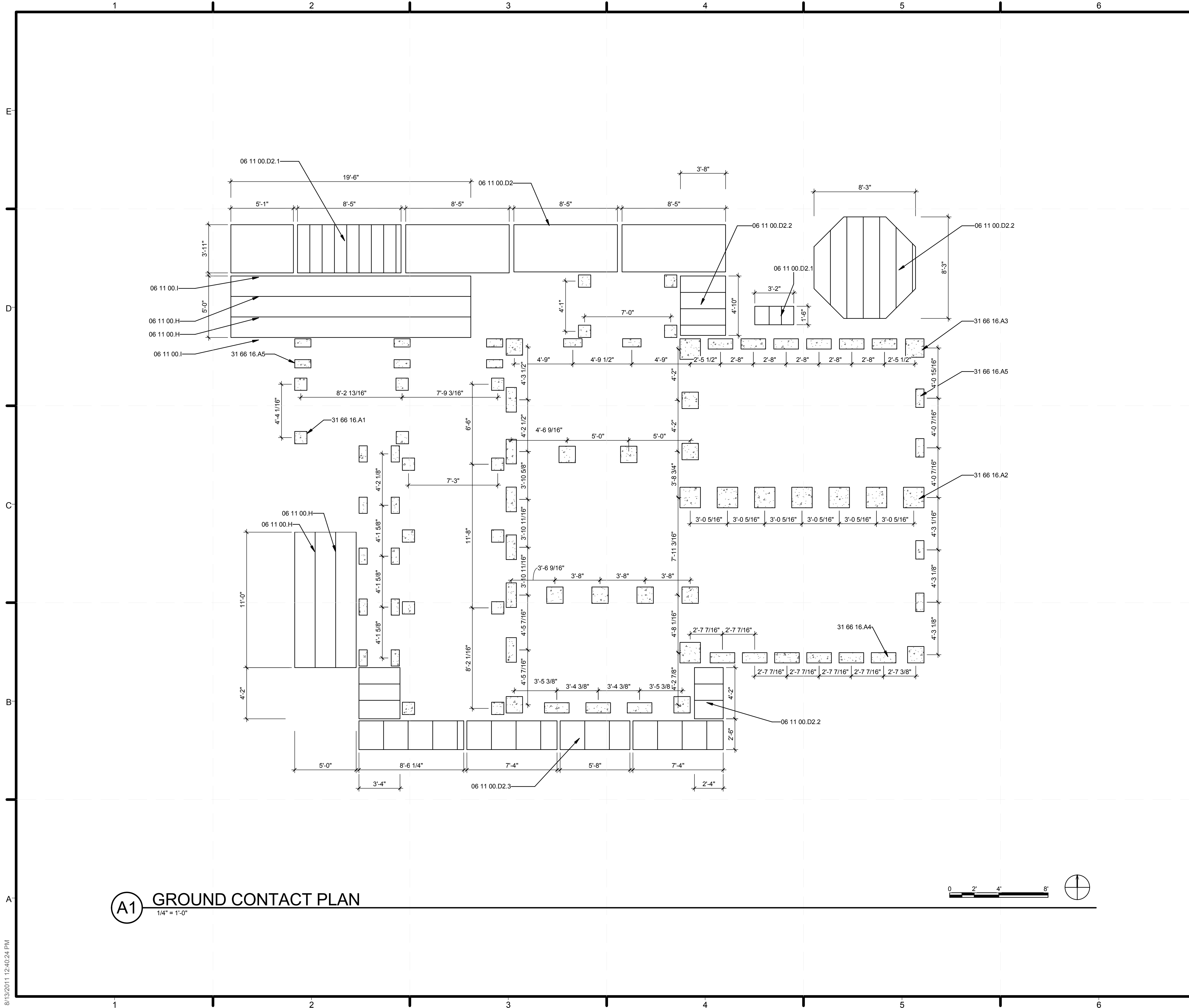
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SHEET TITLE  
**SHADING DIAGRAMS**

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**G-601**





**SHEET KEYNOTES**

1. ALL DIMENSION LUMBER IS PRESSURE TREATED NO 2. SOUTHERN PINE
2. NO STRUCTURAL TIE-DOWNS TO BE USED. ELECTRICAL GROUNDING ROD IS ONLY GROUND PENETRATION.
3. ALL CONCRETE FOOTINGS HAVE GROUND CONTACT AS SHOWN IN S-101 VIEW A5

**REFERENCE KEYNOTES**

06 11 00.D2	TREATED 2X4
06 11 00.D2.1	TREATED 2X4 @ 12" O.C.
06 11 00.D2.2	TREATED 2X4 @ 16" O.C.
06 11 00.D2.3	TREATED 2X4 @ 24" O.C.
06 11 00.H	TREATED 2X10
06 11 00.I	TREATED 2X12
31 66 16.A1	12"X12" PRECAST CONCRETE
31 66 16.A2	20"X20" PRECAST CONCRETE
31 66 16.A3	18"X18" PRECAST CONCRETE
31 66 16.A4	10"X24" PRECAST CONCRETE
31 66 16.A5	8"X16" PRECAST CONCRETE

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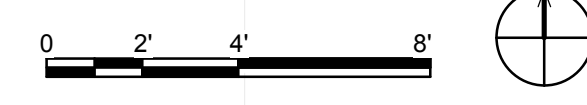
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SHEET TITLE  
**GROUND CONTACT PLAN**

SHEET INDEX

**C-101**

**A1 GROUND CONTACT PLAN**  
1/4" = 1'-0"



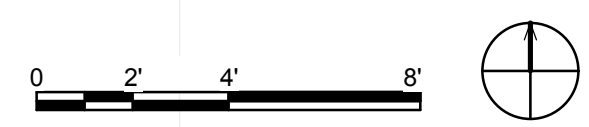
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SHEET KEYNOTES	
①	ORGANIZER WALKWAY

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



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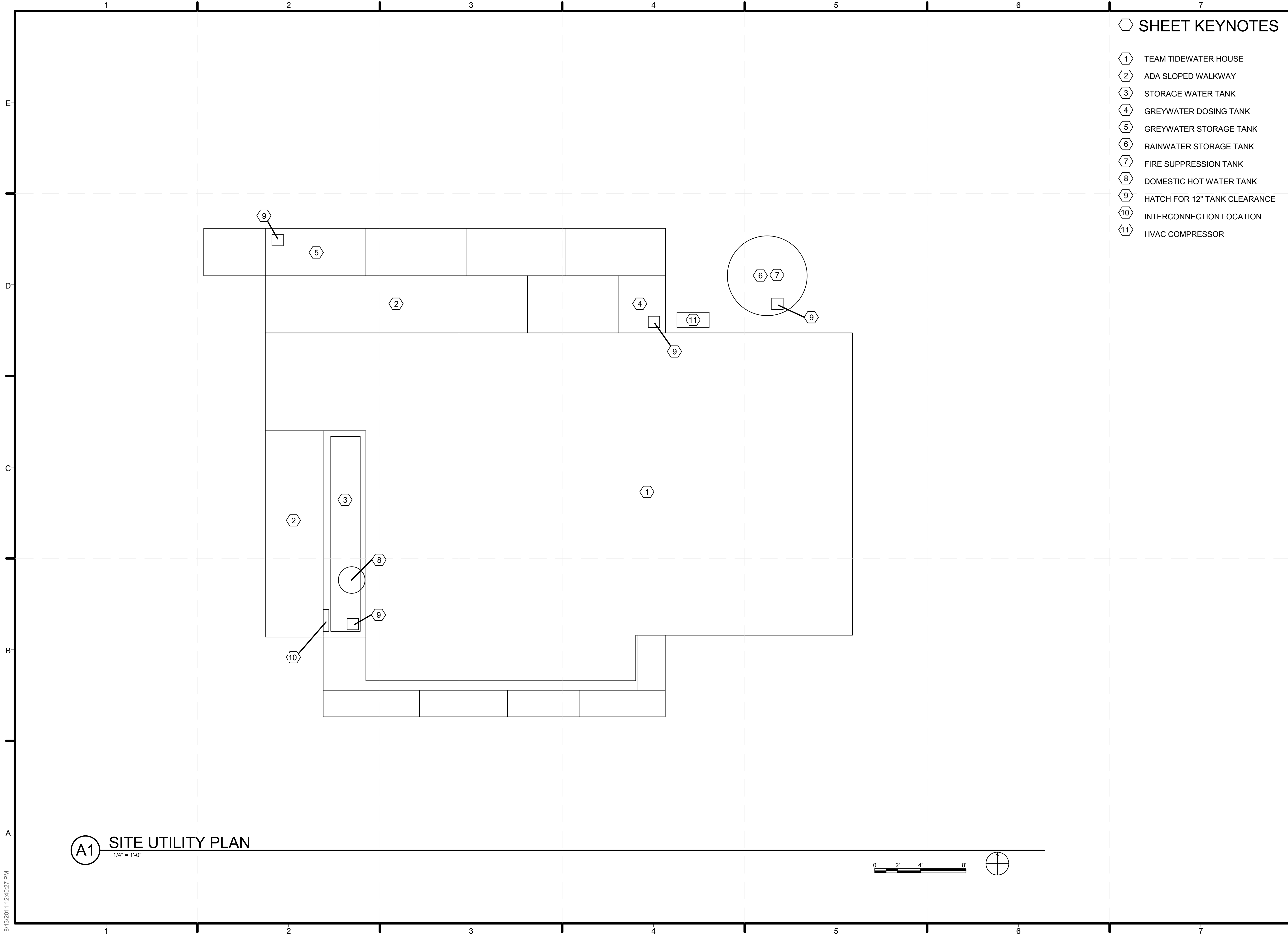
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SHEET TITLE  
**ORGANIZER SUPPLIED PAVING PLAN**  
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**C-102**

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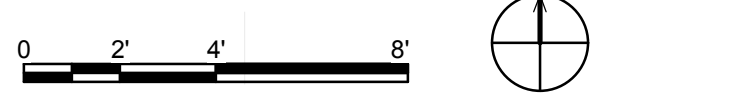




**SHEET KEYNOTES**

- ① TEAM TIDEWATER HOUSE
- ② ADA SLOPED WALKWAY
- ③ STORAGE WATER TANK
- ④ GREYWATER DOSING TANK
- ⑤ GREYWATER STORAGE TANK
- ⑥ RAINWATER STORAGE TANK
- ⑦ FIRE SUPPRESSION TANK
- ⑧ DOMESTIC HOT WATER TANK
- ⑨ HATCH FOR 12" TANK CLEARANCE
- ⑩ INTERCONNECTION LOCATION
- ⑪ HVAC COMPRESSOR

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



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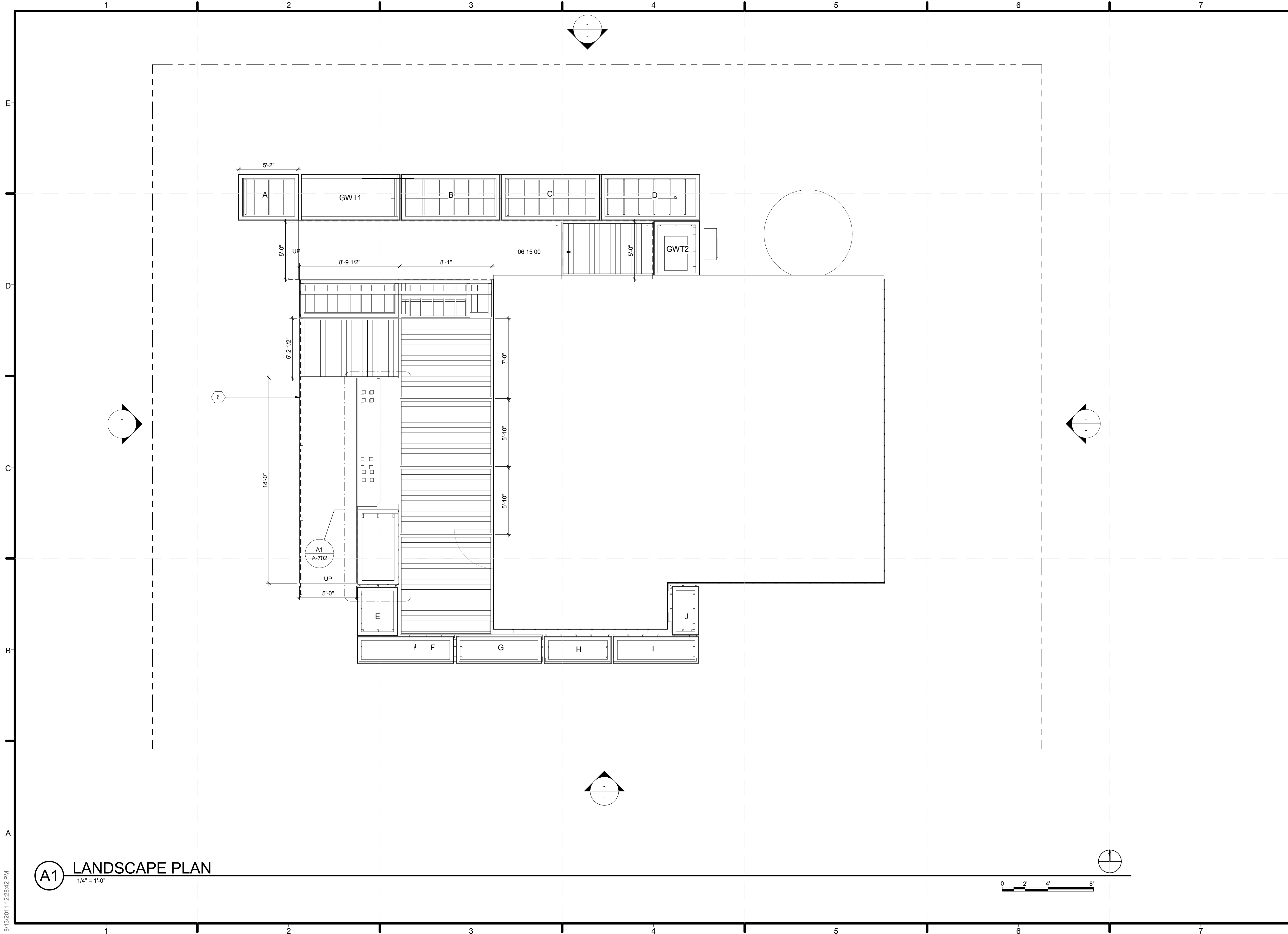
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SHEET TITLE  
**SITE UTILITY PLAN**

SHEET INDEX  
**C-103**

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COMPONENT

LANDSCAPE PLAN

SHEET TITLE

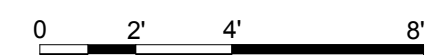
LANDSCAPE PLAN

SHEET INDEX

L-101

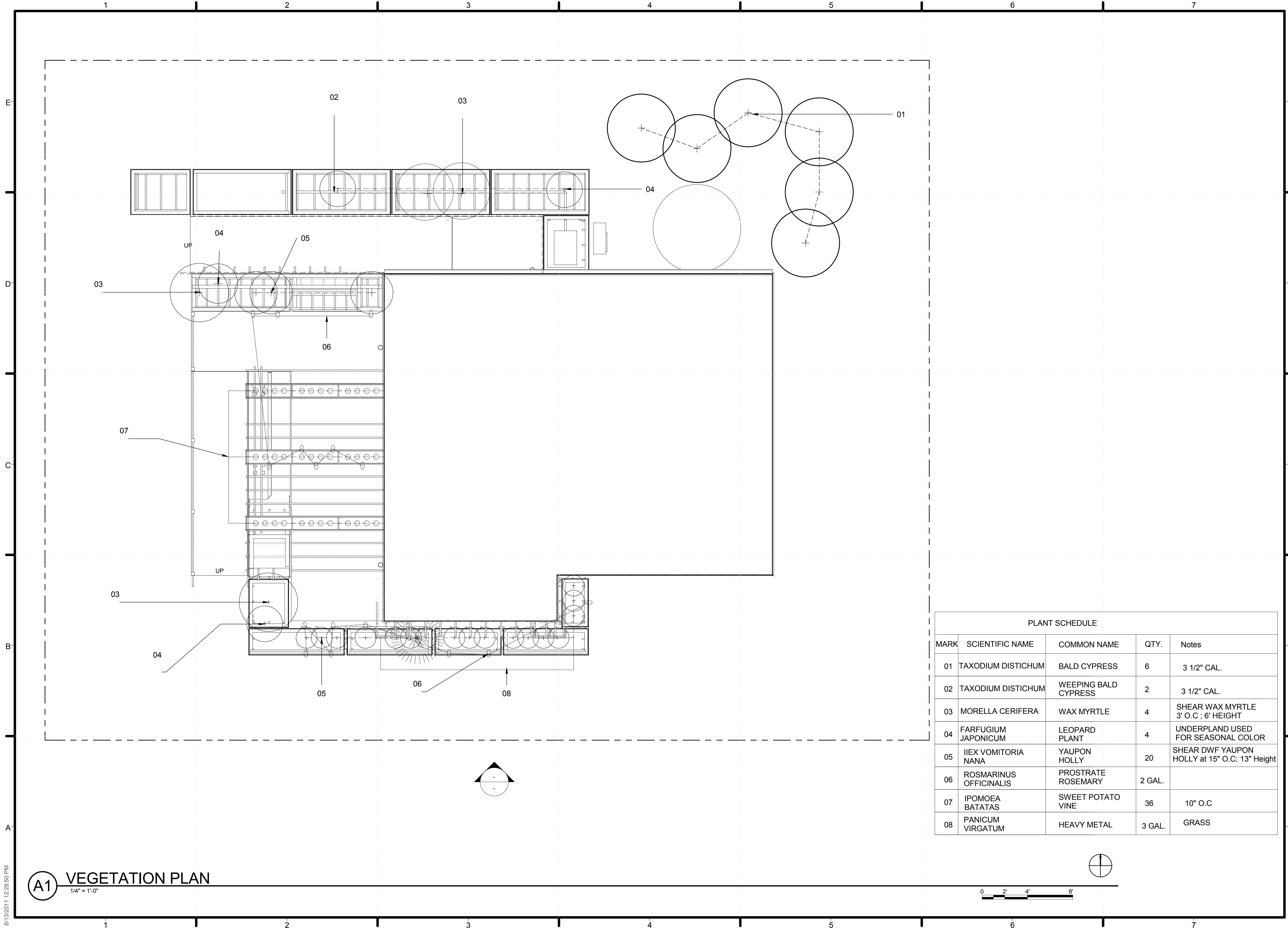
**A1** LANDSCAPE PLAN

1/4" = 1'-0"



8/13/2011 12:28:42 PM





PLANT SCHEDULE				
MARK	SCIENTIFIC NAME	COMMON NAME	QTY.	Notes
01	TAXODIUM DISTICHUM	BALD CYPRESS	6	3 1/2" CAL.
02	TAXODIUM DISTICHUM	WEeping BALD CYPRESS	2	3 1/2" CAL.
03	MORELLA CERIFERA	WAX MYRTLE	4	SHEAR WAX MYRTLE 3' O.C ; 6' HEIGHT
04	FARFUGIUM JAPONICUM	LEOPARD PLANT	4	UNDERPLAND USED FOR SEASONAL COLOR
05	IIEX VOMITORIA NANA	YAUPON HOLLY	20	SHEAR DWF YAUPON HOLLY at 15" O.C; 13" Height
06	ROSMARINUS OFFICINALIS	PROSTRATE ROSEMARY	2 GAL.	
07	IPOMOEA BATATAS	SWEET POTATO VINE	36	10" O.C
08	PANICUM VIRGATUM	HEAVY METAL	3 GAL.	GRASS



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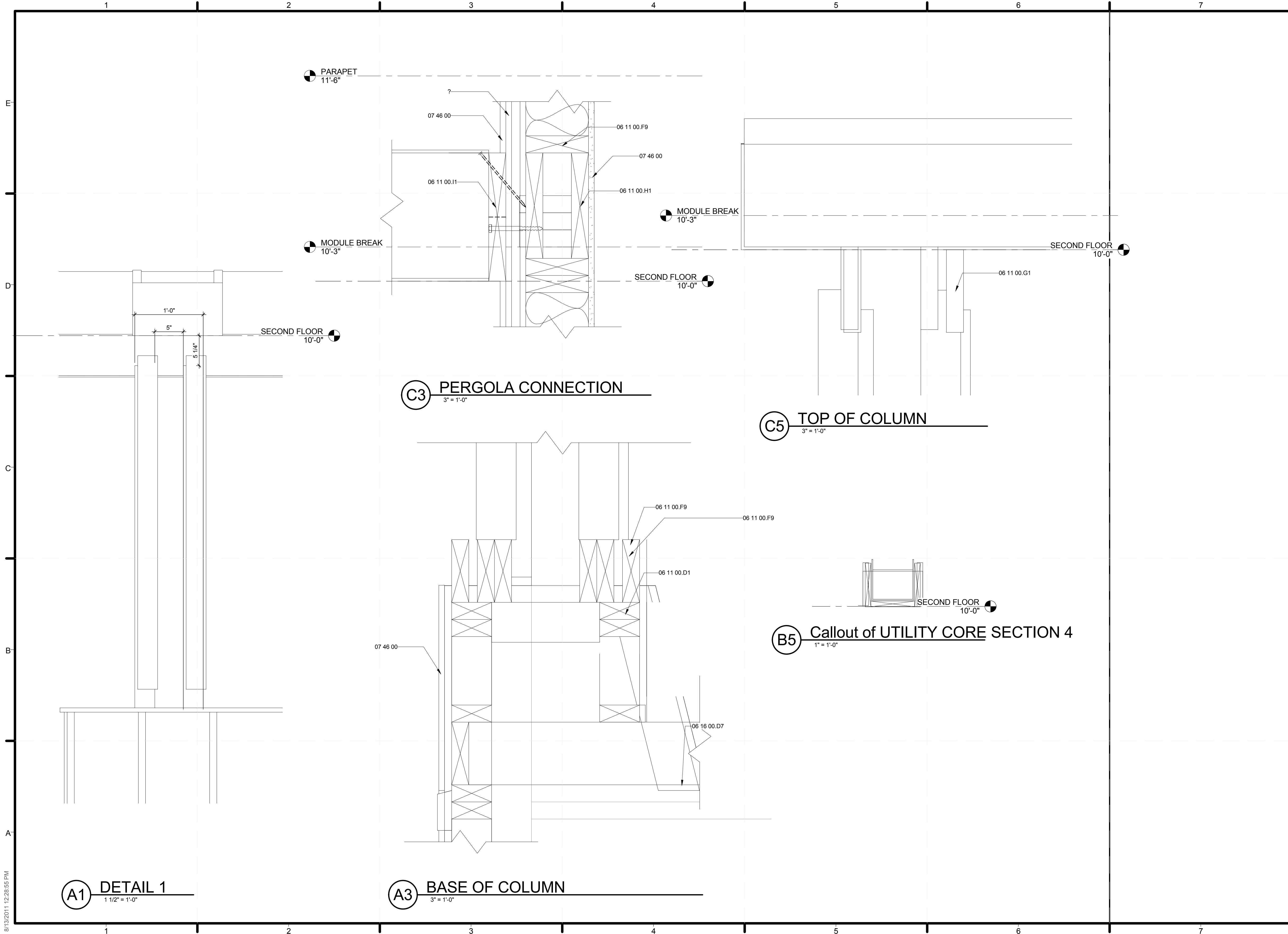
SHEET TITLE  
**VEGETATION PLAN**

SHEET INDEX

**L-102**

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

8/13/2011 12:28:50 PM



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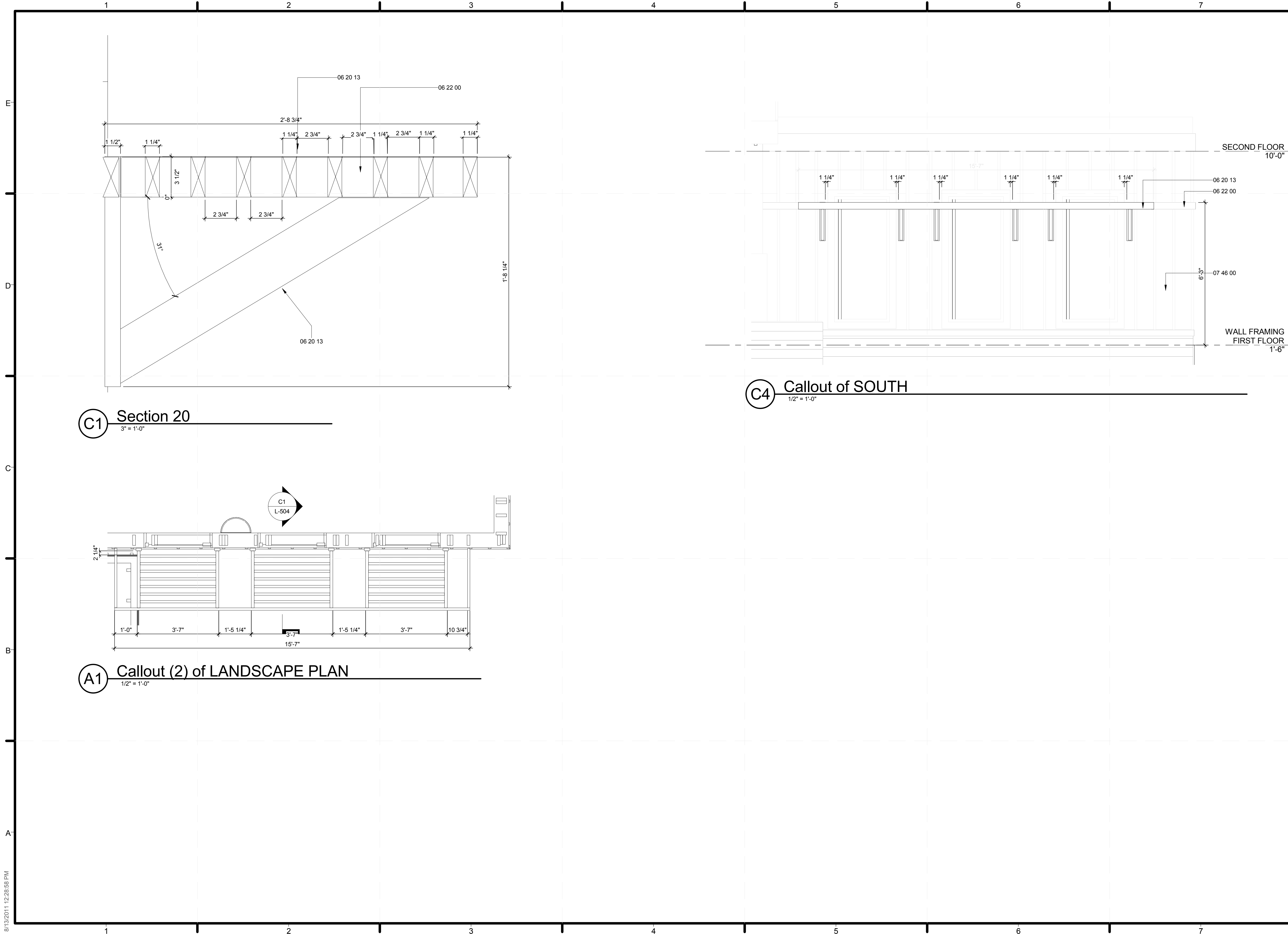
SHEET TITLE  
**UTILITY CORE  
DETAILS**

SHEET INDEX

**L-501**

8/13/2011 12:28:55 PM





**C1** Section 20  
3" = 1'-0"

**A1** Callout (2) of LANDSCAPE PLAN  
1/2" = 1'-0"

**C4** Callout of SOUTH  
1/2" = 1'-0"

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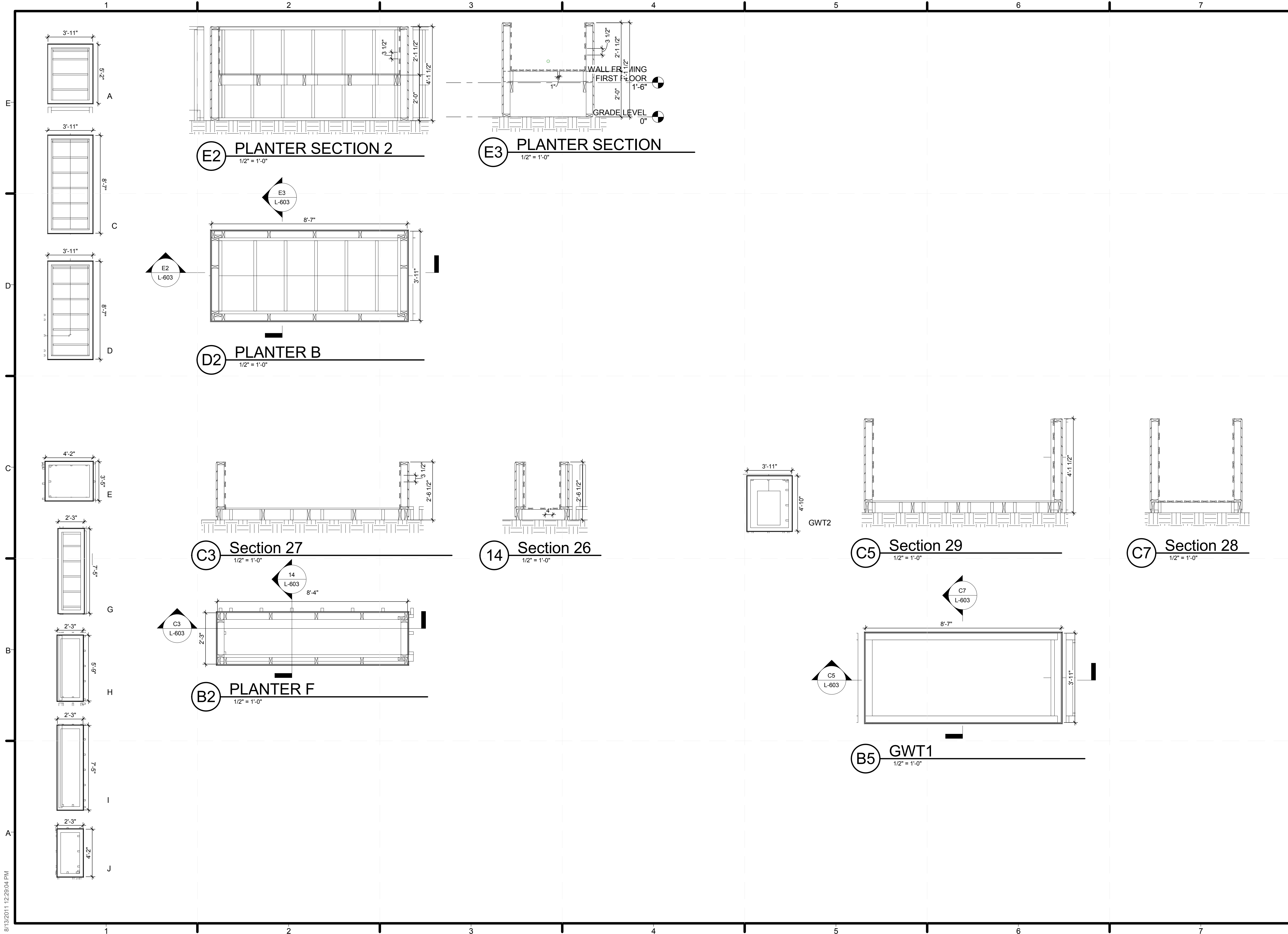
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COMPONENT  
**SUN SHADE**

SHEET TITLE  
**SUN SHADE**

SHEET INDEX  
**L-504**



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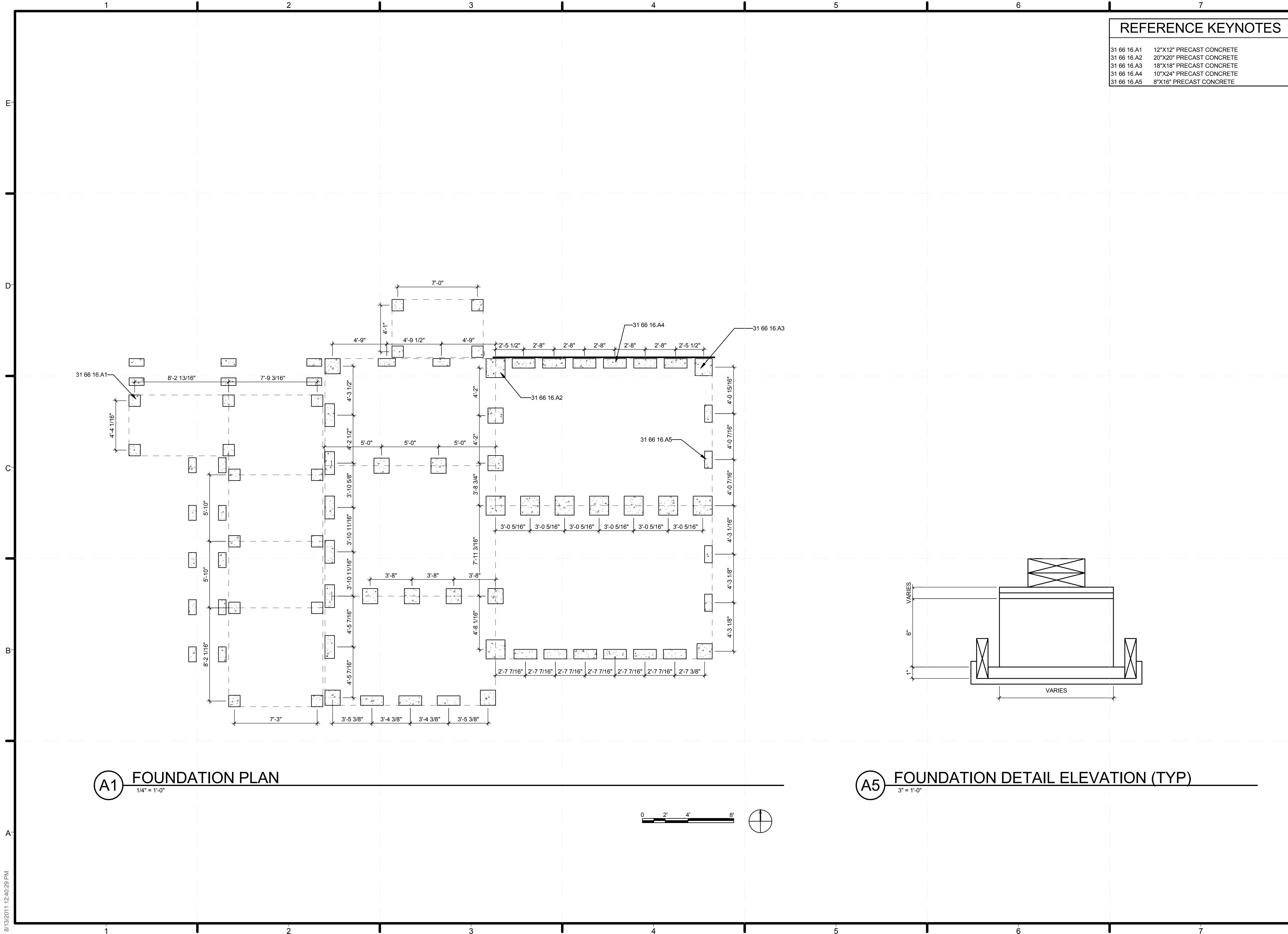
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SHEET TITLE  
**PLANTERS**

SHEET INDEX  
**L-603**





REFERENCE KEYNOTES	
31 66 16.A1	12"x12" PRECAST CONCRETE
31 66 16.A2	20"x20" PRECAST CONCRETE
31 66 16.A3	18"x18" PRECAST CONCRETE
31 66 16.A4	10"x24" PRECAST CONCRETE
31 66 16.A5	8"x16" PRECAST CONCRETE

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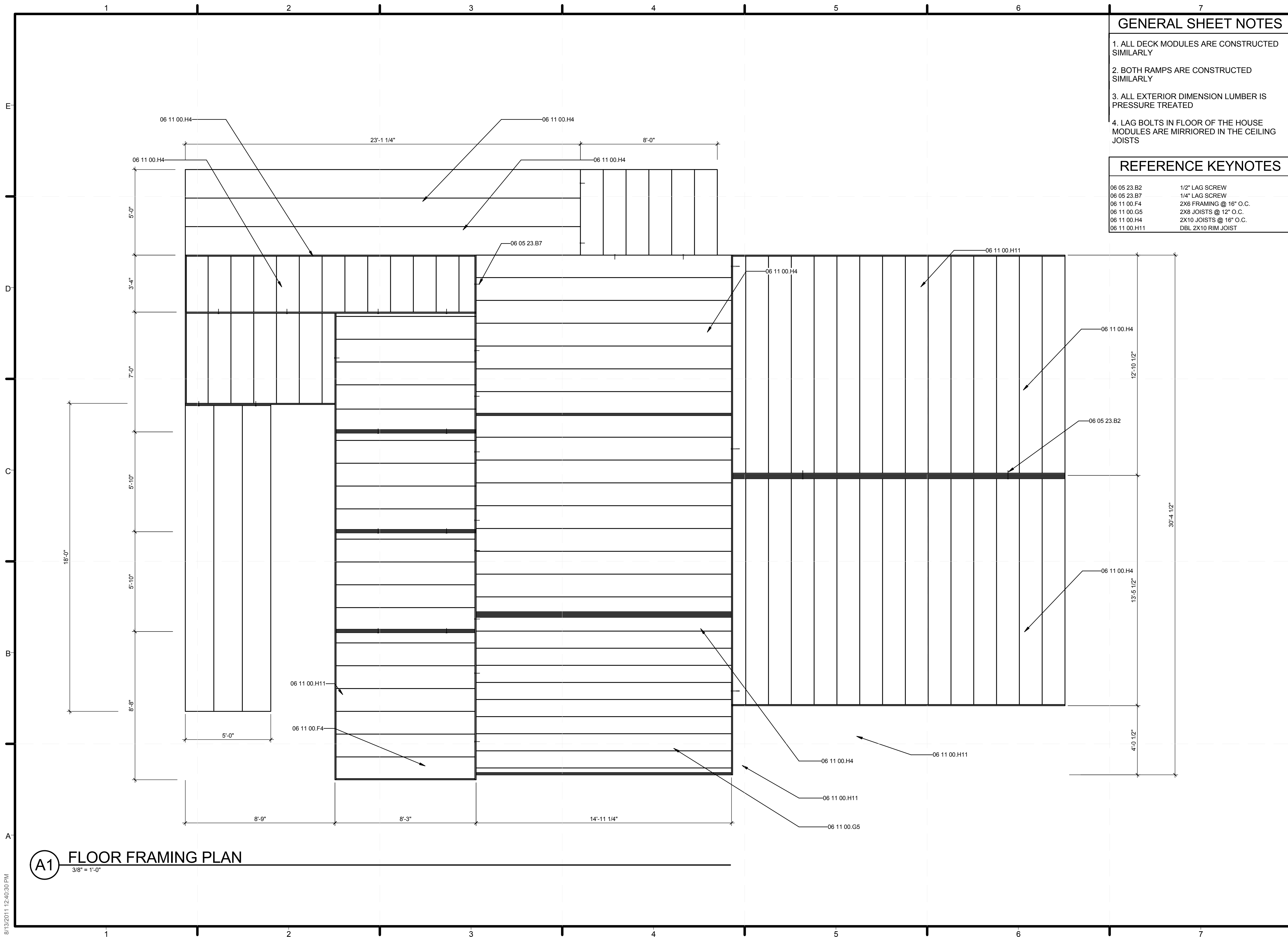
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SHEET TITLE  
**FOUNDATION PLAN**

SHEET INDEX

**S-101**

8/13/2011 12:40:29 PM



**GENERAL SHEET NOTES**

1. ALL DECK MODULES ARE CONSTRUCTED SIMILARLY
2. BOTH RAMPS ARE CONSTRUCTED SIMILARLY
3. ALL EXTERIOR DIMENSION LUMBER IS PRESSURE TREATED
4. LAG BOLTS IN FLOOR OF THE HOUSE MODULES ARE MIRRIORED IN THE CEILING JOISTS

**REFERENCE KEYNOTES**

06 05 23.B2	1/2" LAG SCREW
06 05 23.B7	1/4" LAG SCREW
06 11 00.F4	2X6 FRAMING @ 16" O.C.
06 11 00.G5	2X8 JOISTS @ 12" O.C.
06 11 00.H4	2X10 JOISTS @ 16" O.C.
06 11 00.H11	DBL 2X10 RIM JOIST

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SHEET TITLE  
**FLOOR FRAMING PLAN**

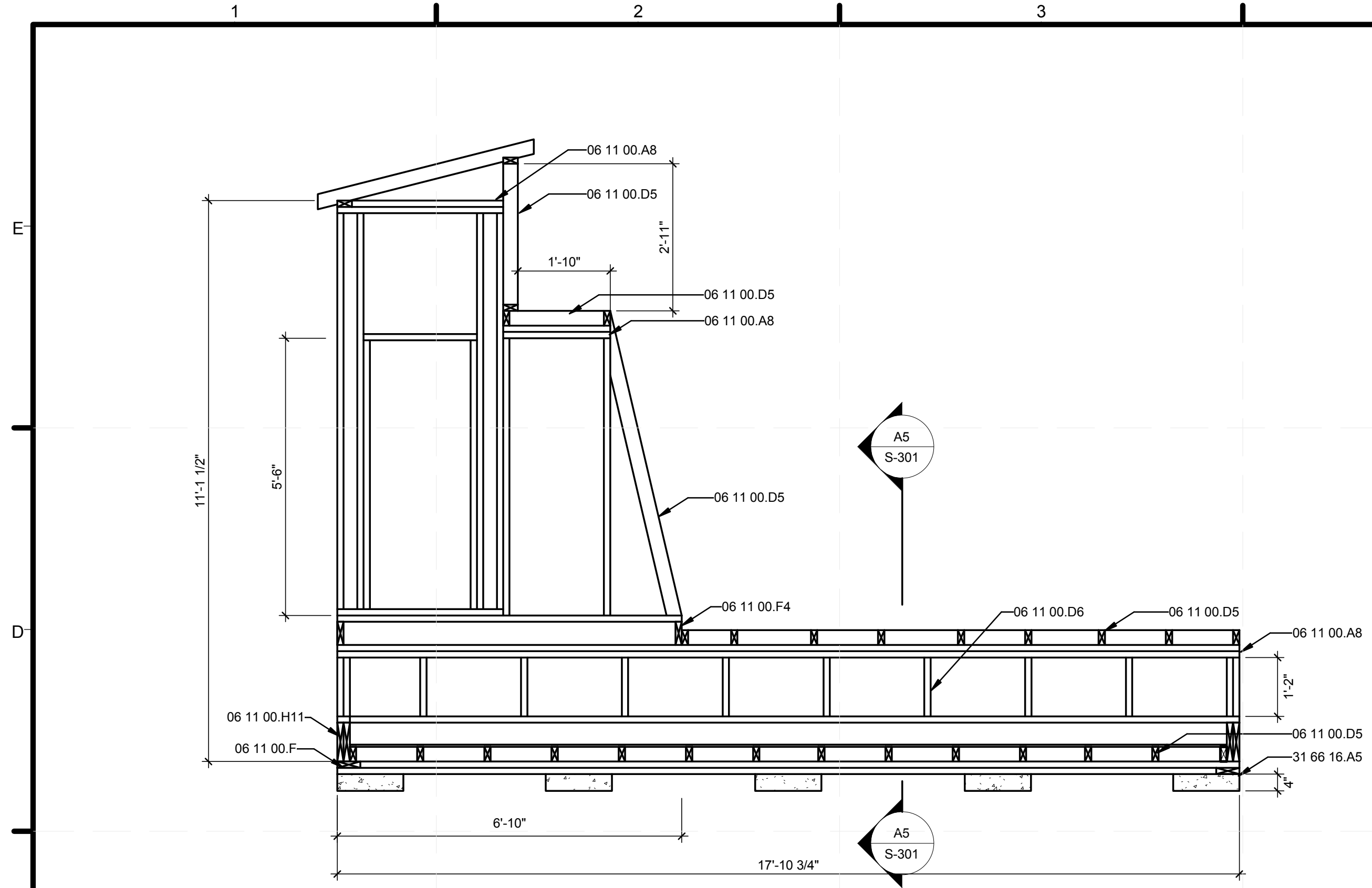
SHEET INDEX

**S-201**

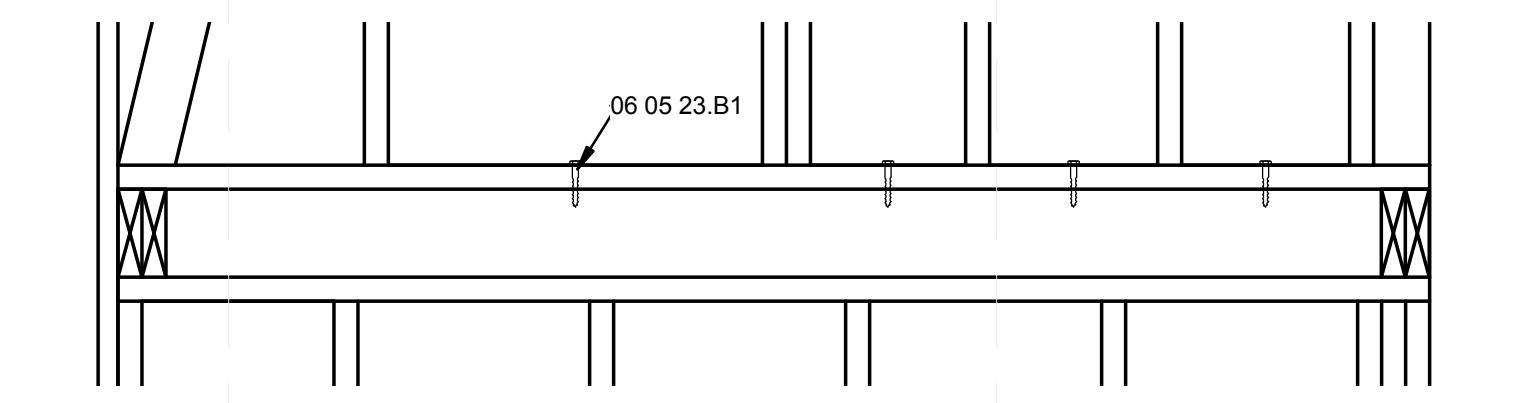
**(A1) FLOOR FRAMING PLAN**  
3/8" = 1'-0"

8/13/2011 12:40:30 PM

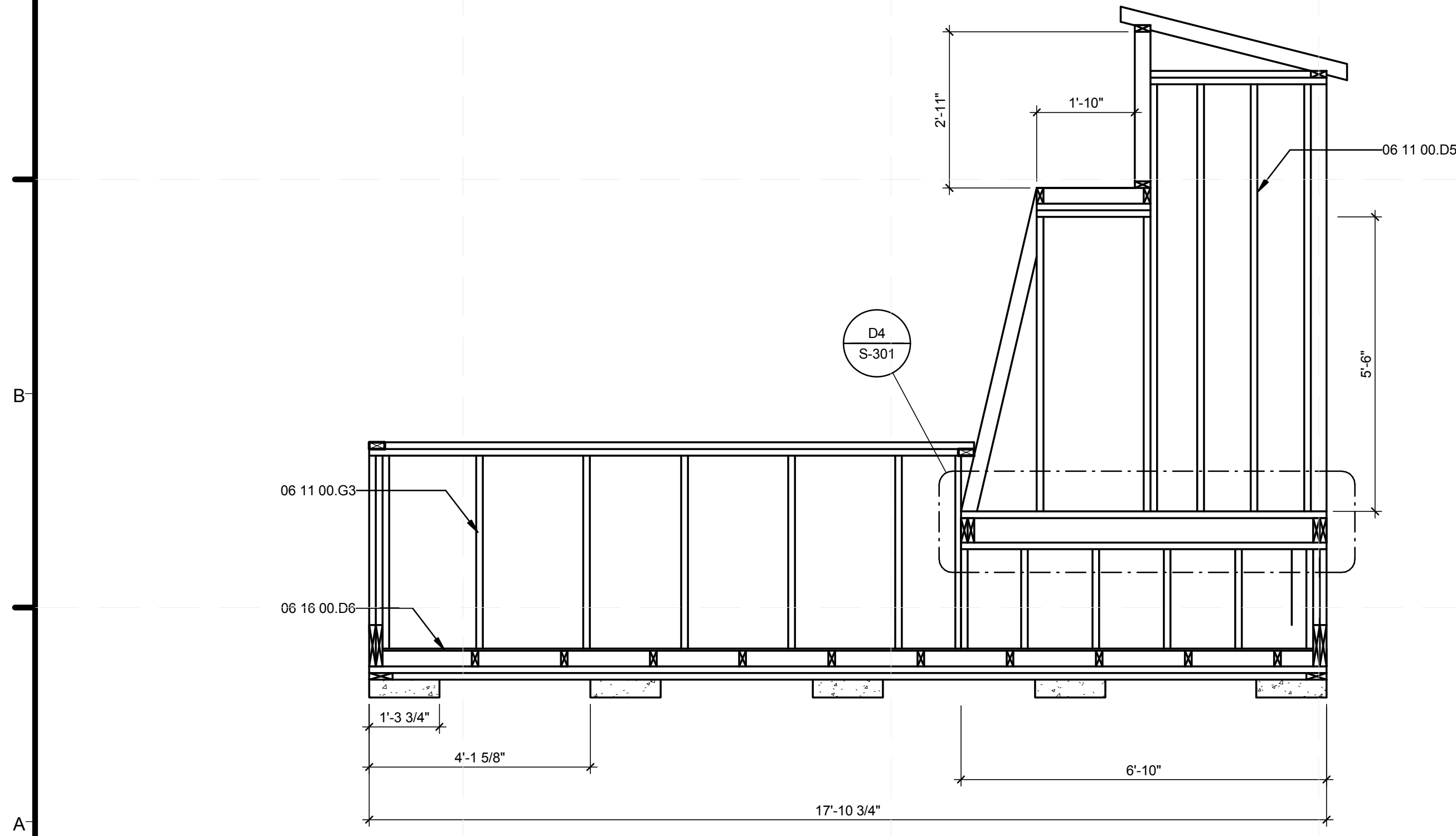




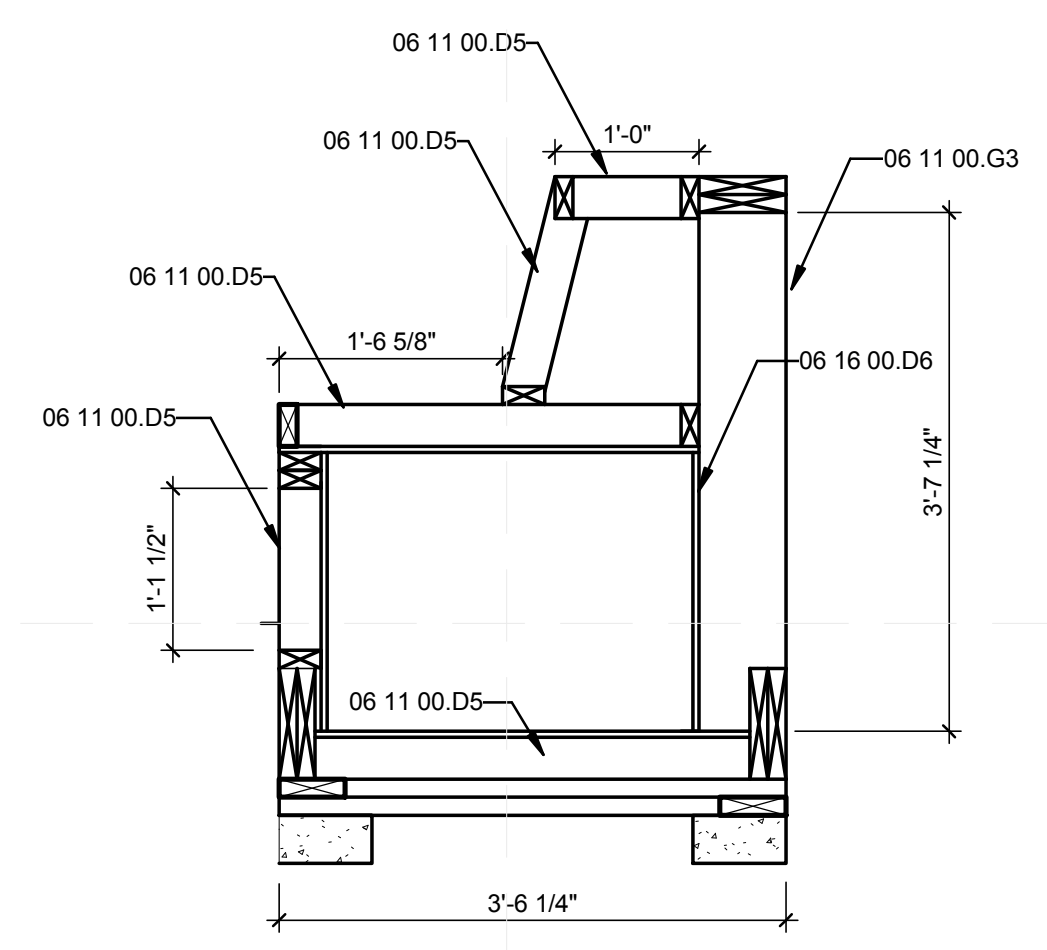
**C1** UTILITY CORE - EAST  
1/2" = 1'-0"



**D4** CONNECTION DETAIL  
1" = 1'-0"



**A1** UTILITY CORE - WEST  
1/2" = 1'-0"



**A5** UTILITY CORE SECTION VIEW  
3/4" = 1'-0"

**GENERAL SHEET NOTES**

- ALL DIMENSION LUMBER IS PRESSURE TREATED NO 2. SOUTHERN PINE
- UTILITY CORE IS BUILT IN TWO MODULES TO ALLOW FOR SHIPPING. BOLTING DETAIL C5 SHOWS CONNECTION ON SITE. BOLTS ARE INSTALLED FROM REMOVABLE PANEL ON INTERIOR OF UTILITY CORE WALL.

**REFERENCE KEYNOTES**

06 05 23.B1	3/8" LAG SCREW
06 11 00.A8	DOUBLE TOP PLATE
06 11 00.D5	2X4 FRAMING @ 16" O.C.
06 11 00.D6	2X4 FRAMING @ 24" O.C.
06 11 00.F	2X6 SILL PLATE
06 11 00.F4	2X6 FRAMING @ 16" O.C.
06 11 00.G3	2X8 FRAMING @ 24" O.C.
06 11 00.H11	DBL 2X10 RIM JOIST
06 16 00.D6	1/2" PLYWOOD
31 66 16.A5	8"X16" PRECAST CONCRETE

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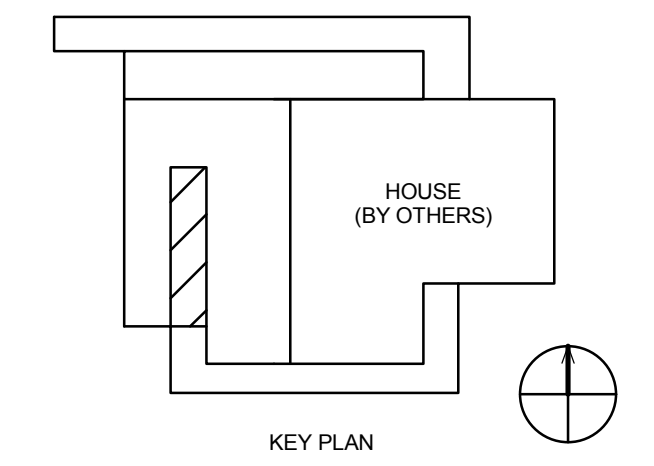


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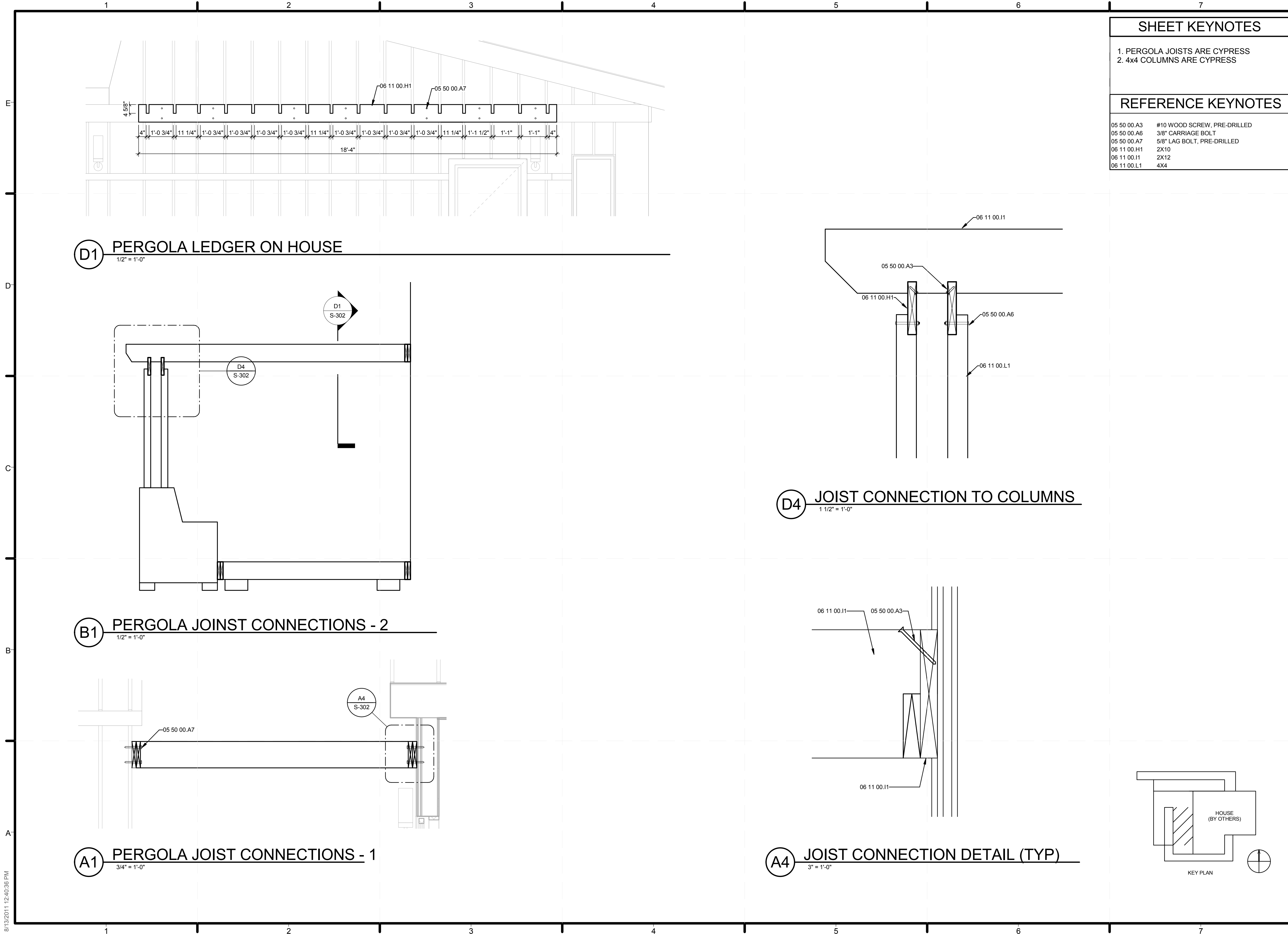
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SHEET TITLE  
**UTILITY CORE**

SHEET INDEX  
**S-301**



SHEET KEYNOTES	
1. PERGOLA JOISTS ARE CYPRESS	
2. 4x4 COLUMNS ARE CYPRESS	
REFERENCE KEYNOTES	
05 50 00.A3	#10 WOOD SCREW, PRE-DRILLED
05 50 00.A6	3/8" CARRIAGE BOLT
05 50 00.A7	5/8" LAG BOLT, PRE-DRILLED
06 11 00.H1	2X10
06 11 00.L1	2X12
06 11 00.L1	4X4

**TEAM SHEET KEYNOTES**  
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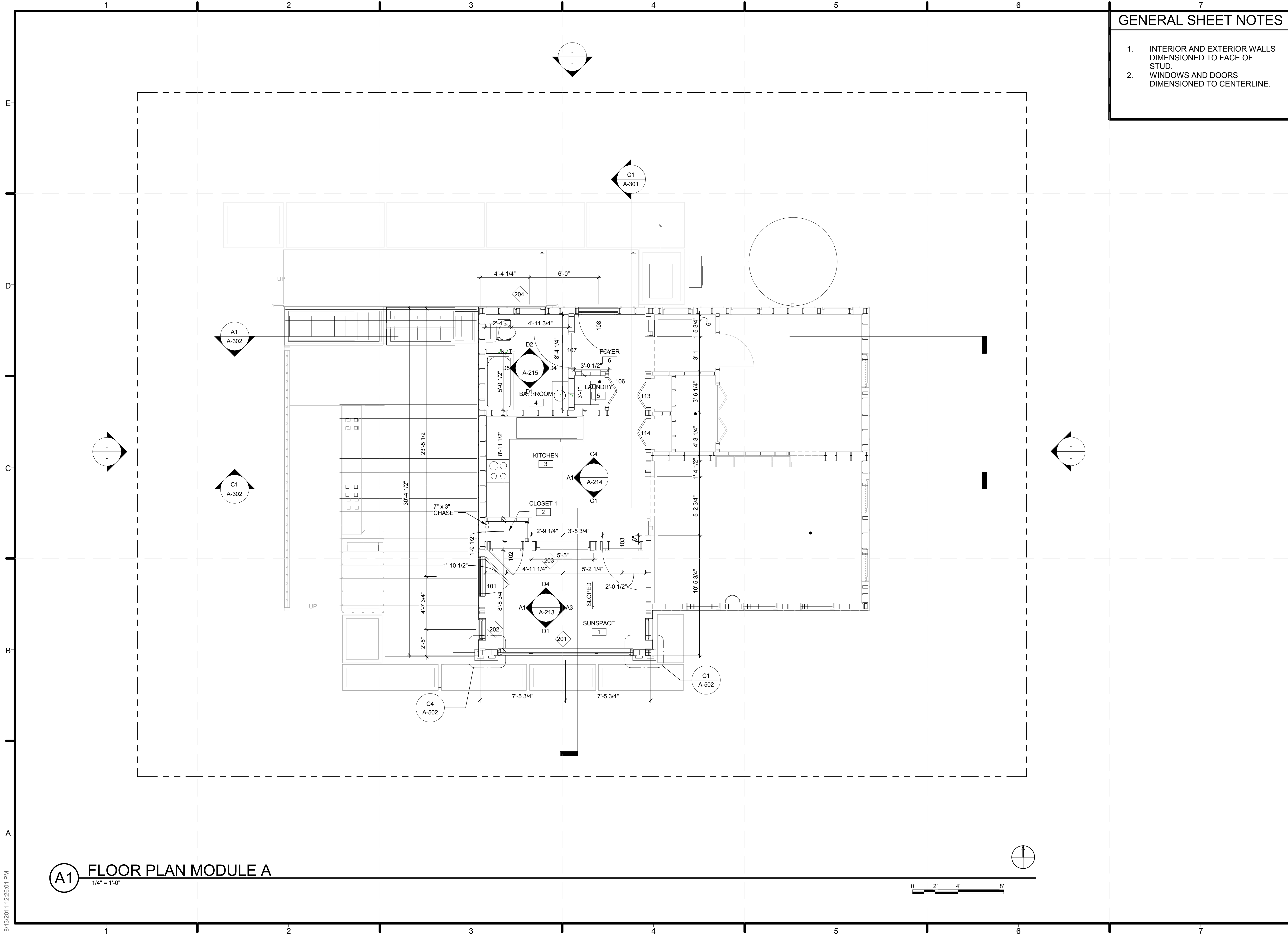
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SHEET TITLE  
**PERGOLA DETAIL**

SHEET INDEX  
**S-302**

8/13/2011 12:40:36 PM





**GENERAL SHEET NOTES**

1. INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2. WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.

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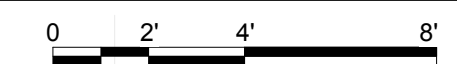
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SHEET TITLE  
**FLOOR PLAN  
MODULE A**

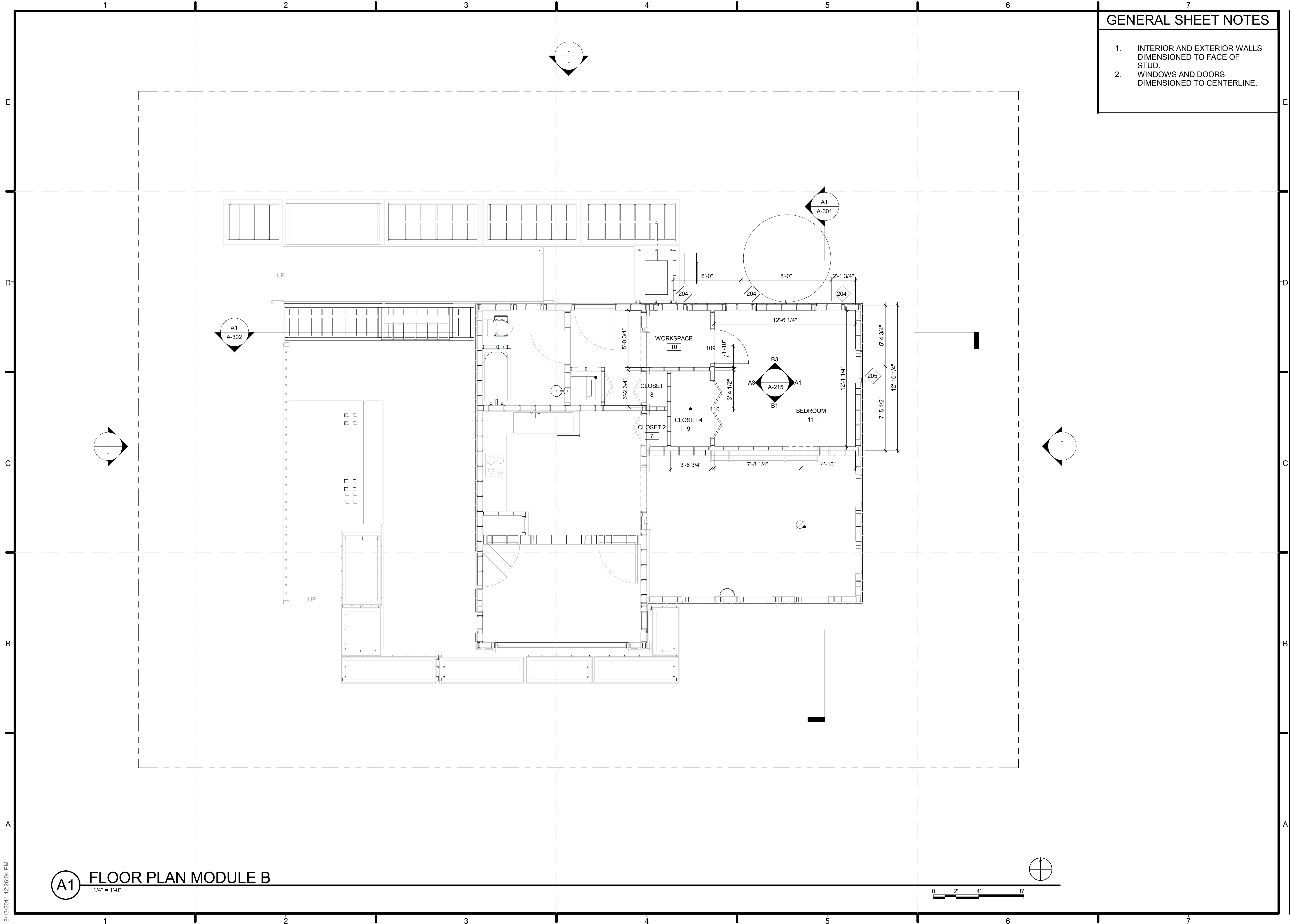
SHEET INDEX

**A-111**

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



8/13/2011 12:28:01 PM



**GENERAL SHEET NOTES**

1. INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2. WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.

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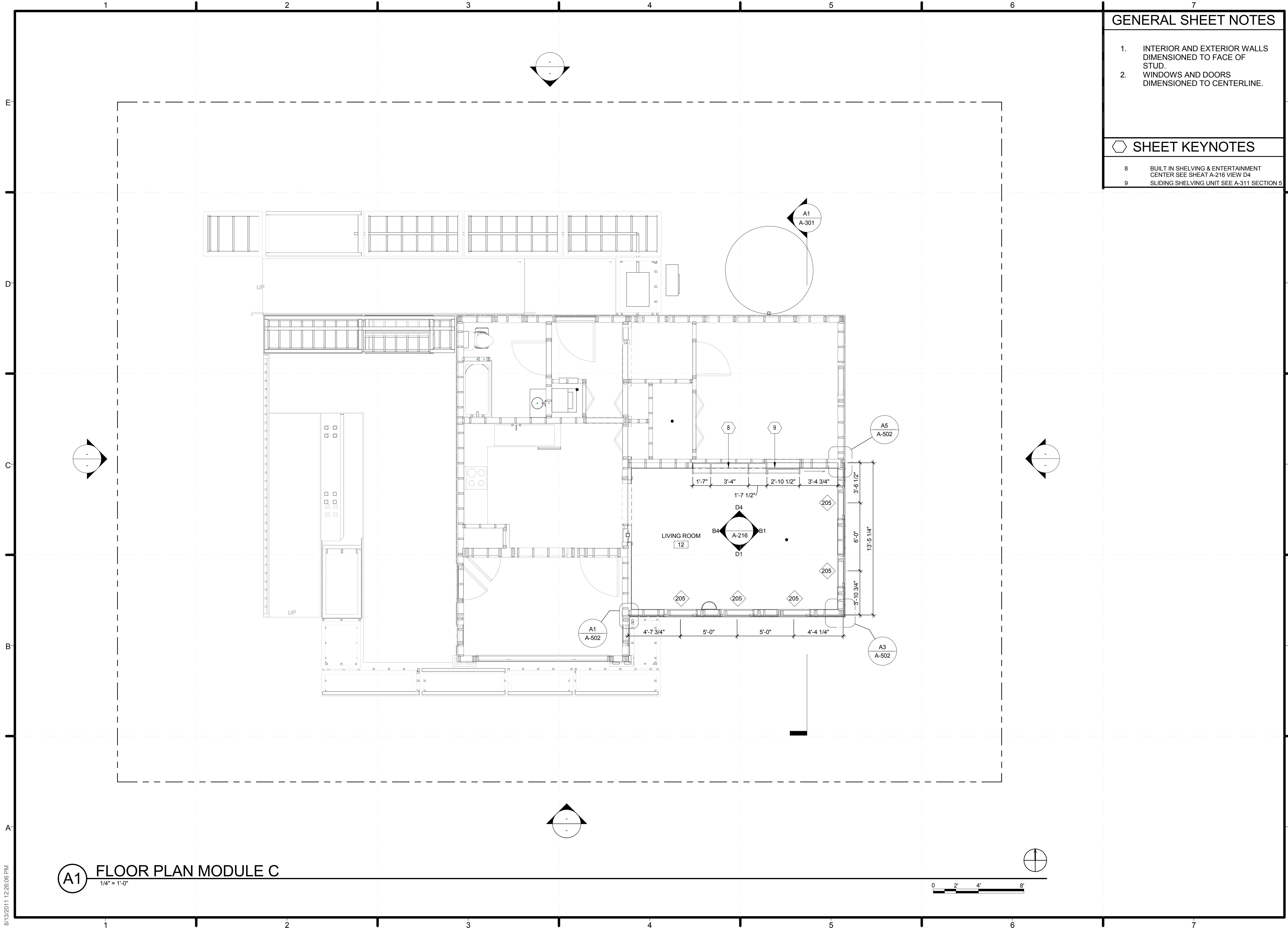
SHEET TITLE  
**FLOOR PLAN  
MODULE B**

SHEET INDEX  
**A-112**

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

8/13/2011 12:28:04 PM





**GENERAL SHEET NOTES**

1. INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2. WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.

**SHEET KEYNOTES**

- 8 BUILT IN SHELVING & ENTERTAINMENT CENTER SEE SHEAT A-216 VIEW D4
- 9 SLIDING SHELVING UNIT SEE A-311 SECTION 5

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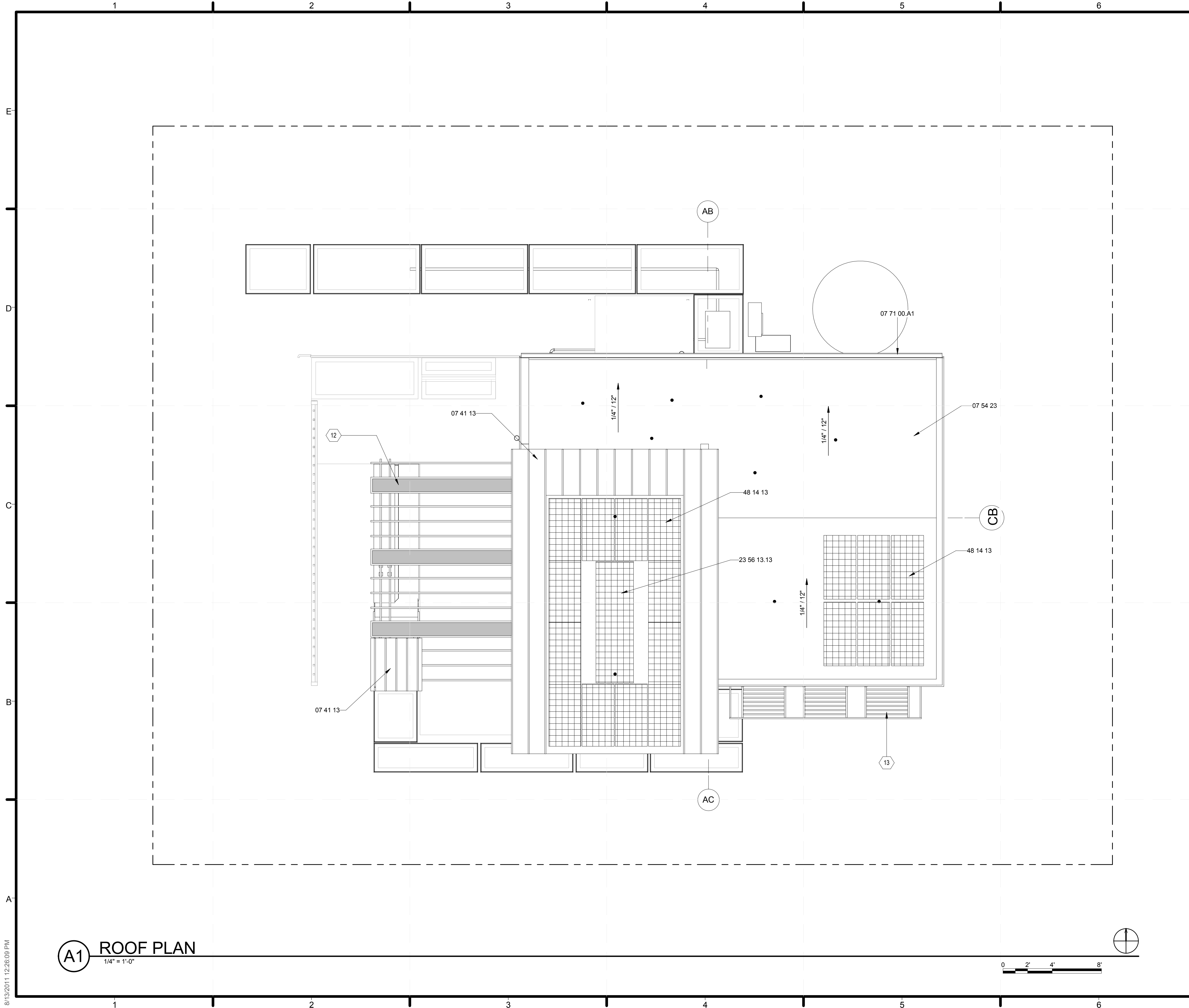
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SHEET TITLE  
**FLOOR PLAN  
MODULE C**

SHEET INDEX  
**A-113**

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

8/13/2011 12:28:06 PM



**REFERENCE KEYNOTES**

07 41 13	METAL ROOF PANELS
07 54 23	THERMOPLASTIC-POLYOLEFIN ROOFING
07 71 00 A1	GUTTER
23 56 13.13	HEATING SOLAR FLAT-PLATE COLLECTORS
48 14 13	SOLAR ENERGY COLLECTORS

**SHEET KEYNOTES**

12	WOOD PERGOLA WITH OVERHEAD PLANTERS SEE LANDSCAPE DRAWINGS
13	WOOD CONSTRUCTED SUN SHADING SYSTEM SEE SHEET LANDSCAPE DRAWINGS

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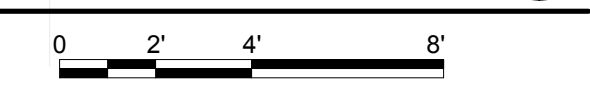
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SHEET TITLE  
**ROOF PLAN**

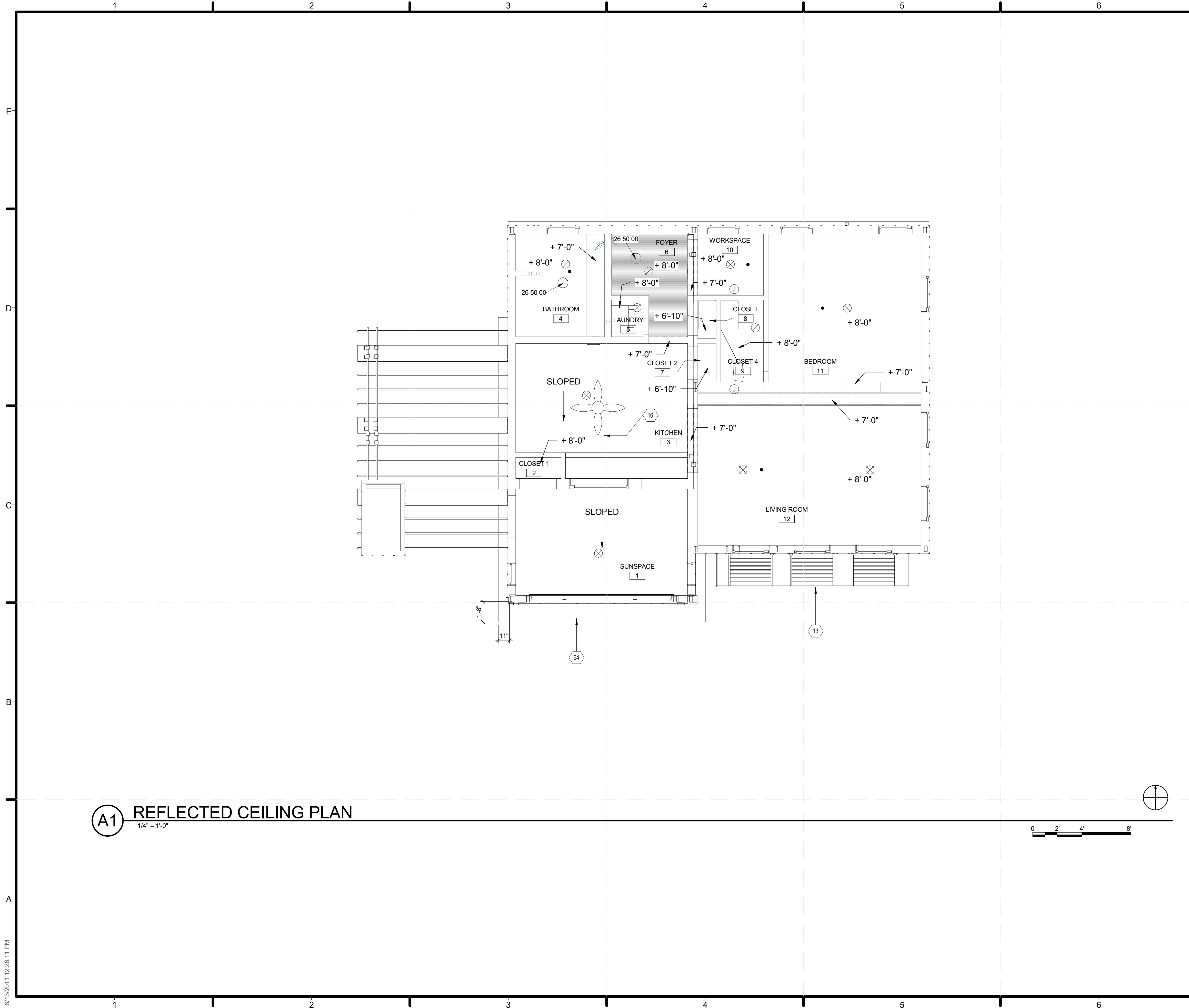
SHEET INDEX  
**A-115**

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



8/13/2011 12:28:09 PM





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

SHEET KEYNOTES	
13	WOOD CONSTRUCTED SUN SHADING SYSTEM SEE SHEET LANDSCAPE DRAWINGS
16	CEILING FAN LOCATED IN CENTER OF ROOM 26 50 00 SEE ELECTRICAL
64	SOFFIT BEYOND

REFERENCE KEYNOTES	
26 50 00	LIGHTING

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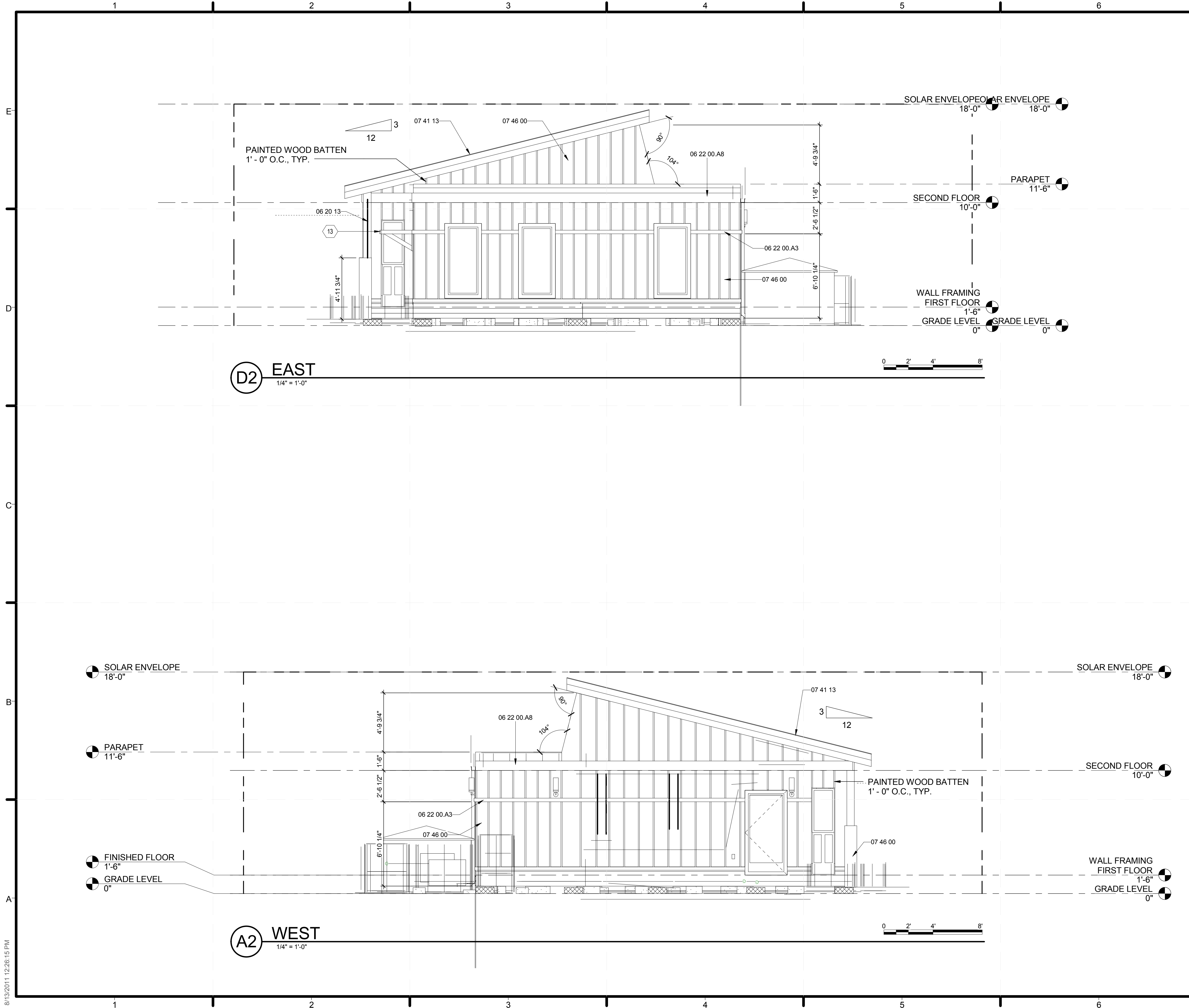
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SHEET TITLE  
**FIRST FLOOR  
REFLECTED CEILING  
PLAN**  
SHEET INDEX

**A-121**

8/13/2011 12:28:11 PM



**GENERAL SHEET NOTES**

1. INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2. WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.
3. PAINTED WOOD BATTEN 1' - 0" O.C., TYP.

**REFERENCE KEYNOTES**

06 20 13	EXTERIOR FINISH CARPENTRY
06 22 00.A3	1X3 WOOD TRIM
06 22 00.A8	1X10 WOOD TRIM
07 41 13	METAL ROOF PANELS
07 46 00	1/2" MDO PLYWOOD SIDING

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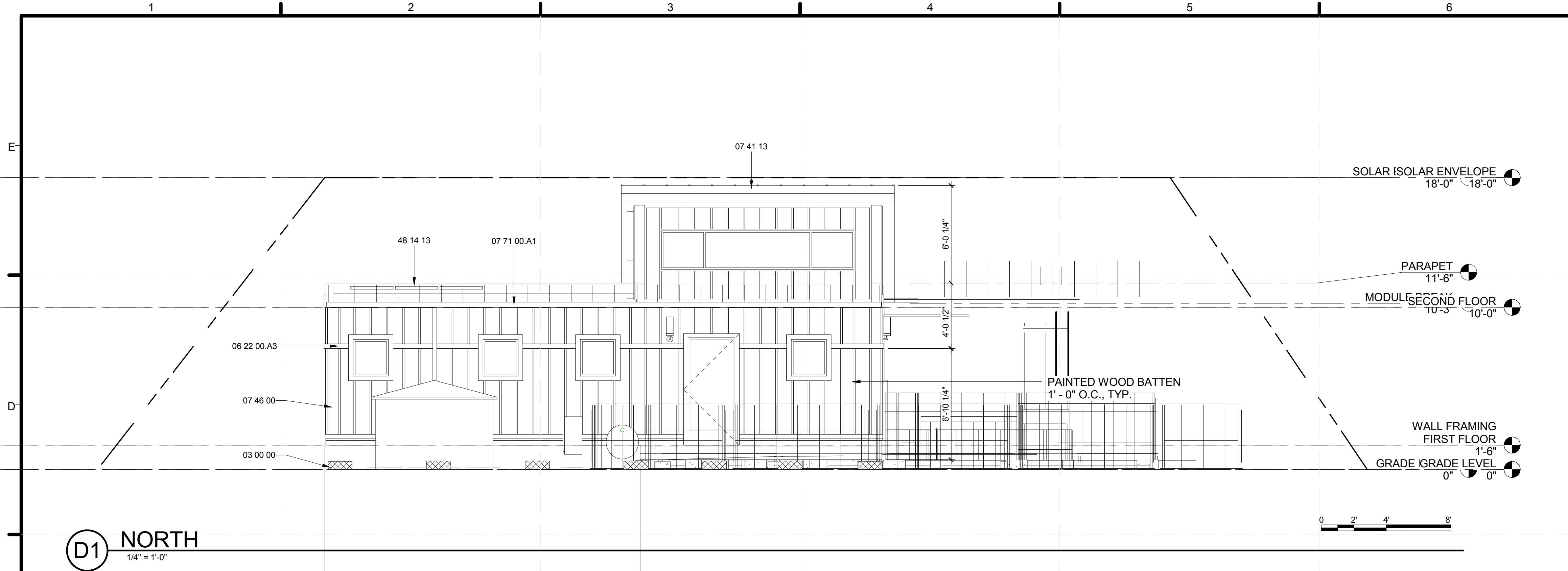
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SHEET TITLE  
**ELEVATIONS**

SHEET INDEX

**A-211**

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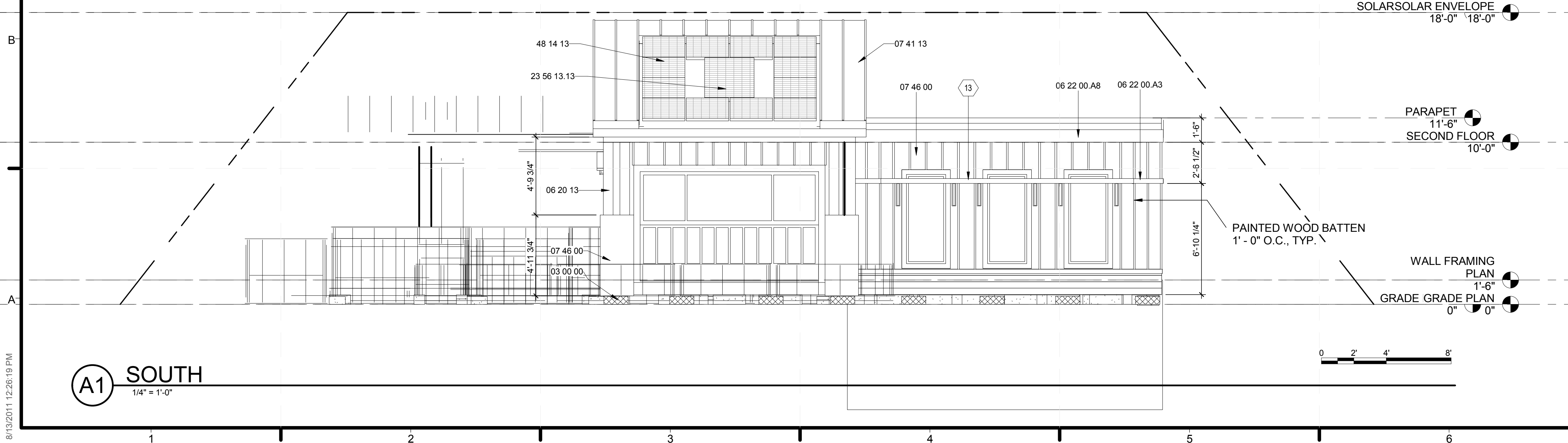
**D1 NORTH**  
1/4" = 1'-0"

**REFERENCE KEYNOTES**

03 00 00	CONCRETE
06 20 13	EXTERIOR FINISH CARPENTRY
06 22 00.A3	1X3 WOOD TRIM
06 22 00.A8	1X10 WOOD TRIM
07 41 13	METAL ROOF PANELS
07 46 00	1/2" MDO PLYWOOD SIDING
07 71 00.A1	GUTTER
23 56 13.13	HEATING SOLAR FLAT-PLATE COLLECTORS
48 14 13	SOLAR ENERGY COLLECTORS

**SHEET KEYNOTES**

13	WOOD CONSTRUCTED SUN SHADING SYSTEM SEE SHEET LANDSCAPE DRAWINGS
----	---



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

**REFERENCE KEYNOTES**

03 00 00	CONCRETE
06 20 13	EXTERIOR FINISH CARPENTRY
06 22 00.A3	1X3 WOOD TRIM
06 22 00.A8	1X10 WOOD TRIM
07 41 13	METAL ROOF PANELS
07 46 00	1/2" MDO PLYWOOD SIDING
07 71 00.A1	GUTTER
23 56 13.13	HEATING SOLAR FLAT-PLATE COLLECTORS
48 14 13	SOLAR ENERGY COLLECTORS

**SHEET KEYNOTES**

13	WOOD CONSTRUCTED SUN SHADING SYSTEM SEE SHEET LANDSCAPE DRAWINGS
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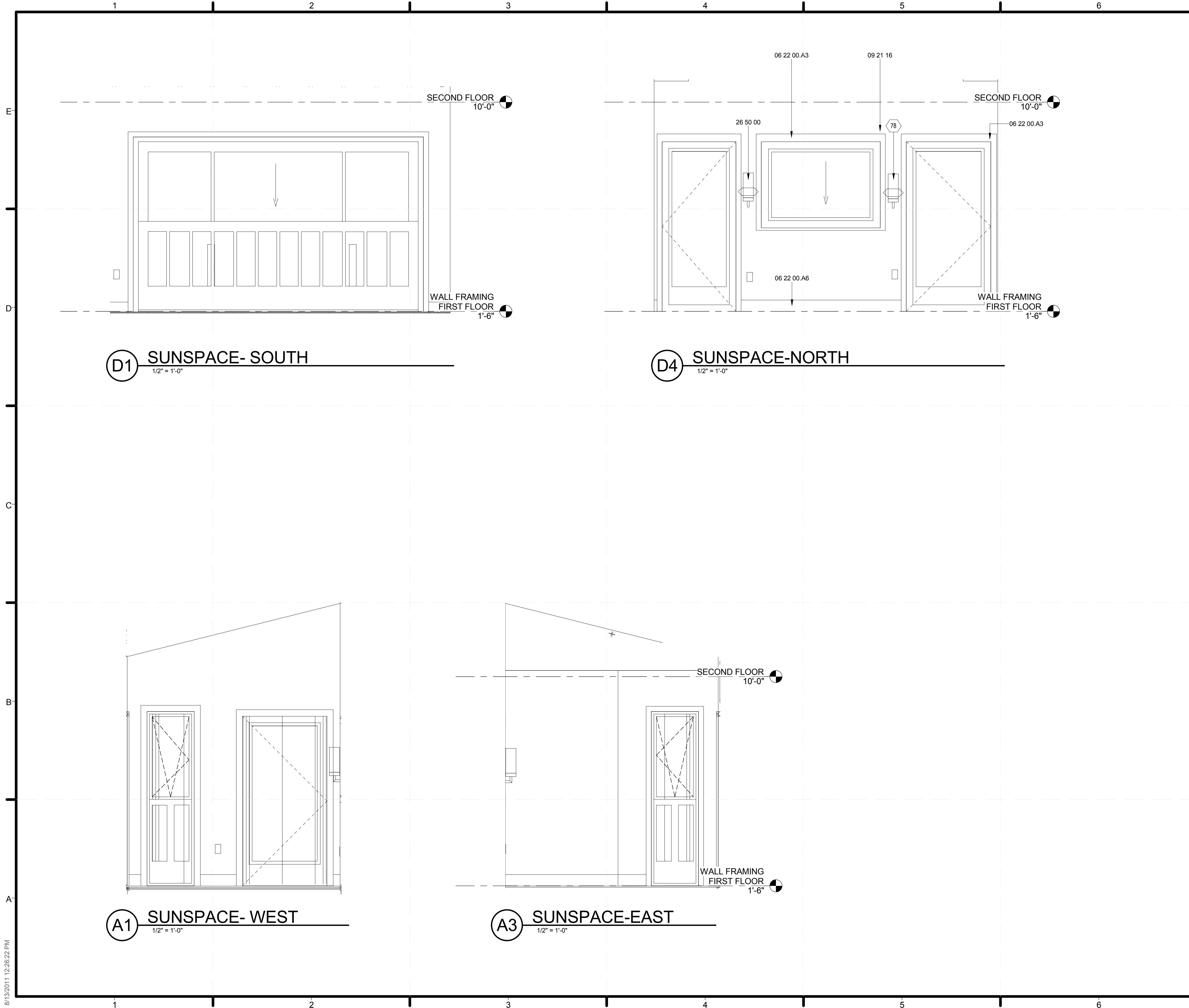
SECOND FLOOR  
10'-0"

**ELEVATIONS**

FIRST FLOOR  
1'-6"  
GRADE LEVEL  
0"

**A-212**





**GENERAL SHEET NOTES**

1. ALL SUNSPACE INTERIOR WALL FINISHES AND TRIM MATERIALS ARE TYPICAL TO SUNSPACE - NORTH ELEVATION UNLESS OTHERWISE NOTED

**REFERENCE KEYNOTES**

06 22 00.A3	1X3 WOOD TRIM
06 22 00.A6	1X6 WOOD TRIM
09 21 16	GYPSUM BOARD ASSEMBLIES
26 50 00	LIGHTING

**SHEET KEYNOTES**

78 CENTER SCNCES BETWEEN WINDOWS

**TEAM TIDEWATER VIRGINIA**  
Old Dominion University and Hampton University



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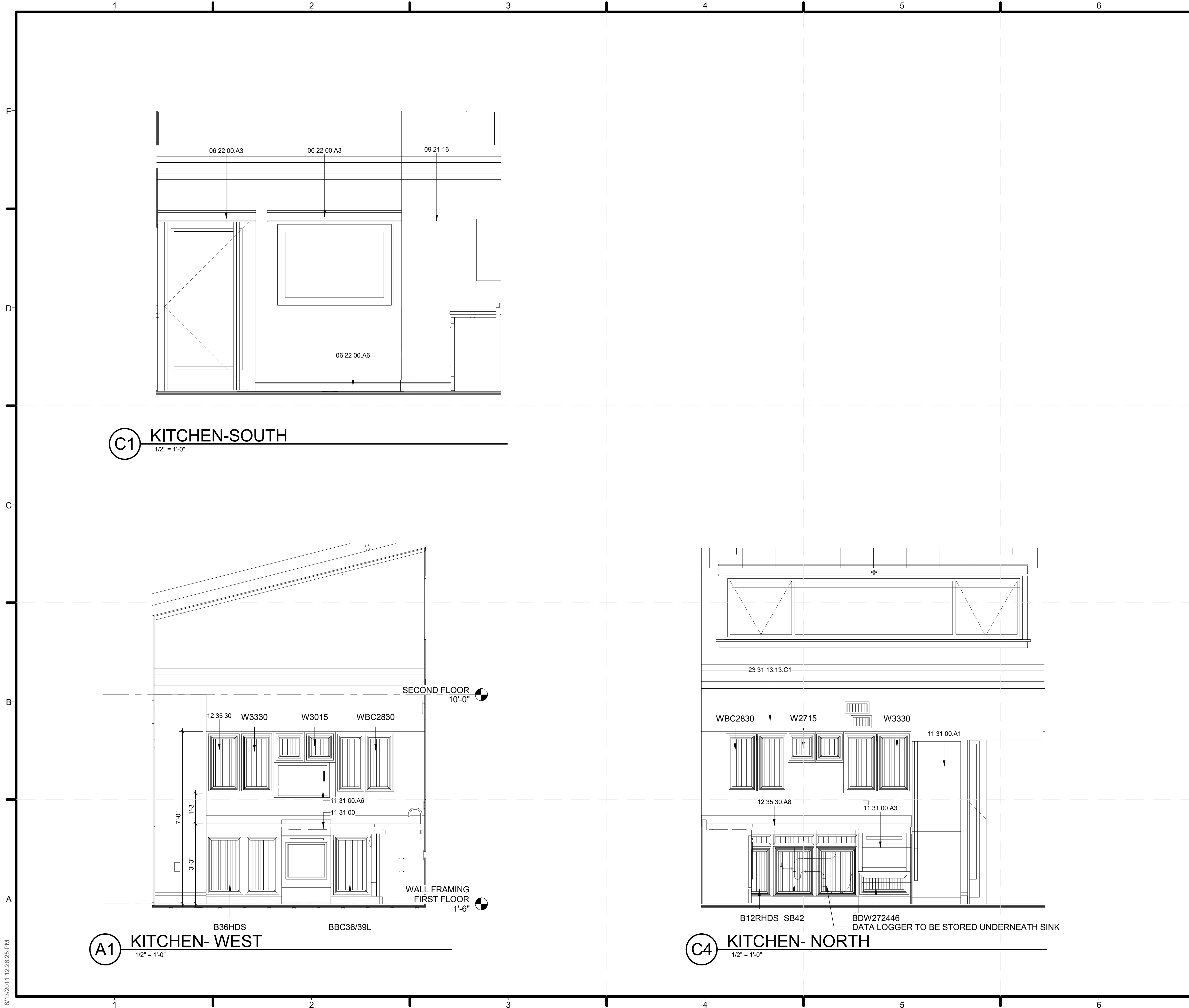
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SHEET TITLE  
**INTERIOR ELEVATIONS SUNSPACE**  
SHEET INDEX

**A-213**

8/13/2011 12:28:22 PM



**GENERAL SHEET NOTES**

ALL KITCHEN INTERIOR WALL FINISHES AND TRIM ARE TYPICAL TO KITCHEN-SOUTH ELEVATION UNLESS OTHERWISE NOTED

**REFERENCE KEYNOTES**

06 22 00.A3	1X3 WOOD TRIM
06 22 00.A6	1X6 WOOD TRIM
09 21 16	GYPSUM BOARD ASSEMBLIES
11 31 00	RESIDENTIAL APPLIANCES
11 31 00.A1	REFRIGERATOR CONSERV MODEL CT380Z
11 31 00.A3	DISHWASHER FISHER AND PAYKEL DD24SCTXG12
11 31 00.A6	MICROWAVE FRIGIDAIRE FPBM189KF
12 35 30	RESIDENTIAL CASEWORK
12 35 30.A8	QUARTZ COUTNERTOPS
23 31 13.13.C1	10' x 6" TYP

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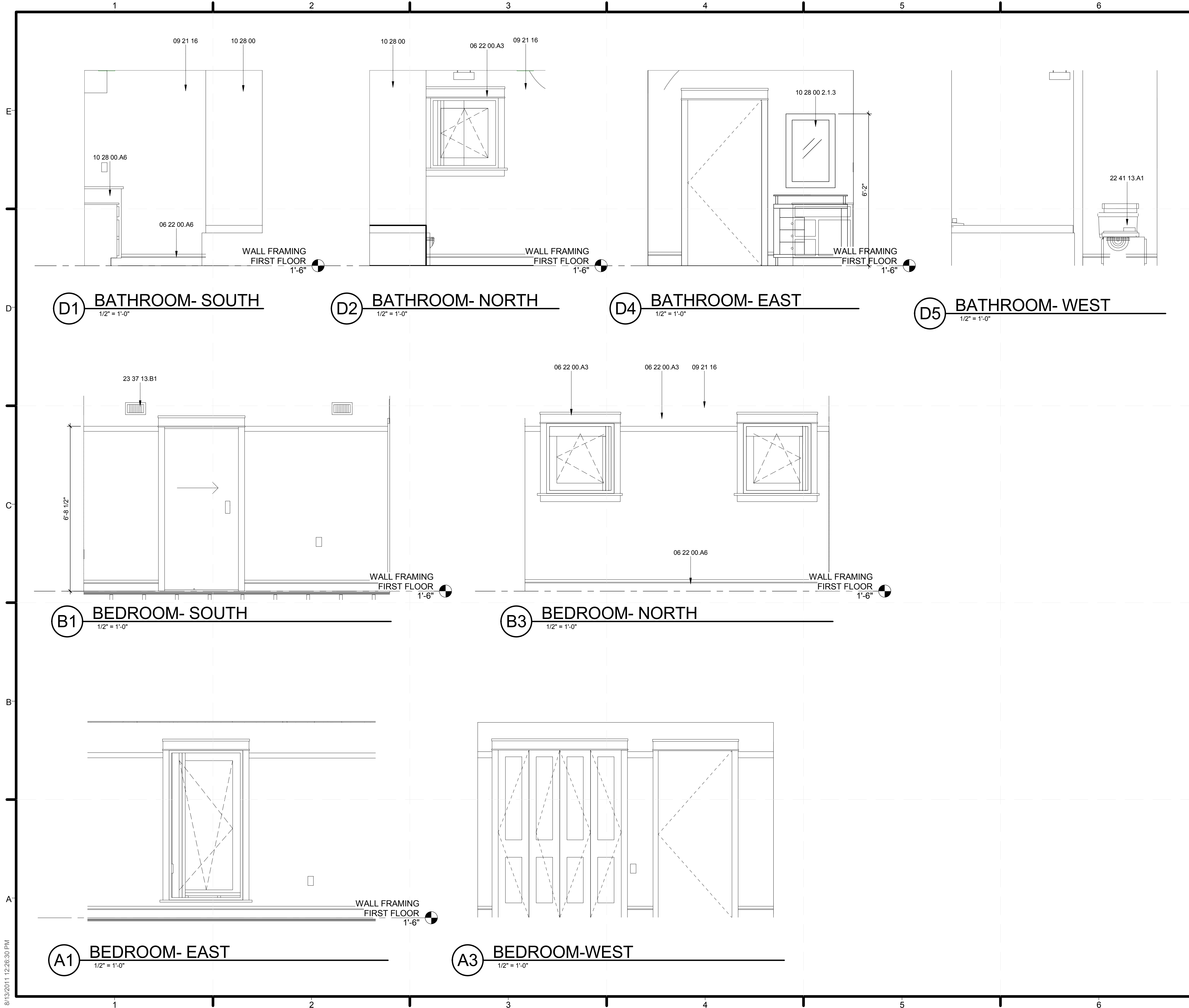
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SHEET TITLE  
**INTERIOR ELEVATIONS KITCHEN**  
SHEET INDEX

**A-214**

8/13/2011 12:28:25 PM



**GENERAL SHEET NOTES**

ALL BEDROOM INTERIOR WALL FINISHES AND TRIM ARE TYPICAL TO BEDROOM-NORTH ELEVATION UNLESS OTHERWISE NOTED

ALL BATHROOM INTERIOR WALL FINISHES AND BASE TRIM ARE TYPICAL TO BATHROOM-SOUTH ELEVATION UNLESS OTHERWISE NOTED

**REFERENCE KEYNOTES**

- 06 22 00.A3 1X3 WOOD TRIM
- 06 22 00.A6 1X6 WOOD TRIM
- 09 21 16 GYPSUM BOARD ASSEMBLIES
- 10 28 00 TOILET, BATH, AND LAUNDRY ACCESSORIES
- 10 28 00 2.1.3 MIRROR 2'X3'
- 10 28 00.A6 BATHROOM VANITY
- 22 41 13.A1 WATER CLOSET
- 23 37 13.B1 SUPPLY REGISTER

**SHEET KEYNOTES**

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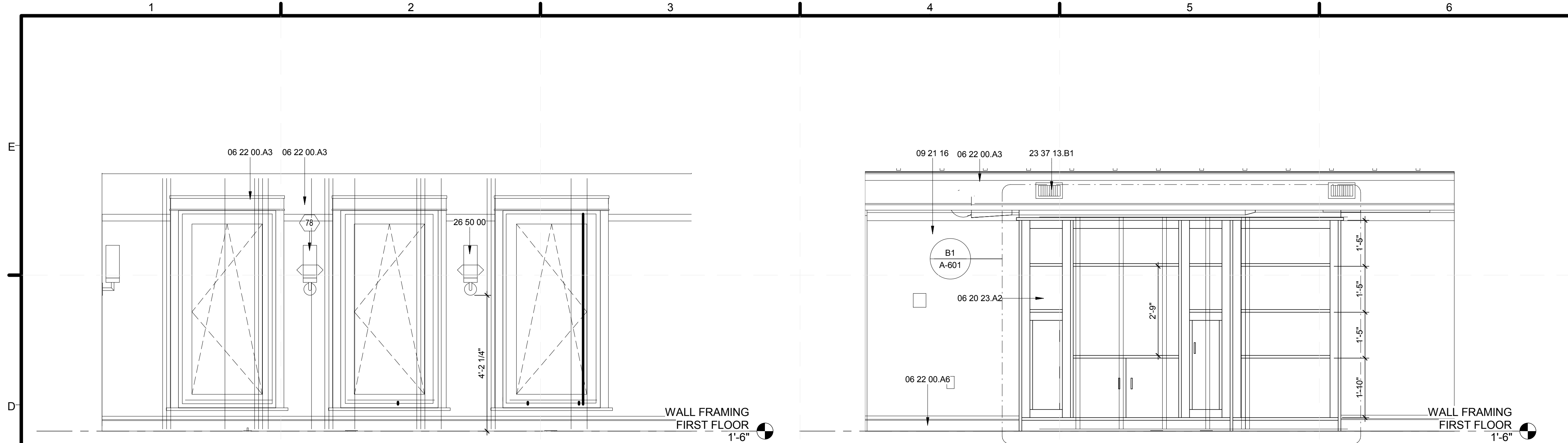
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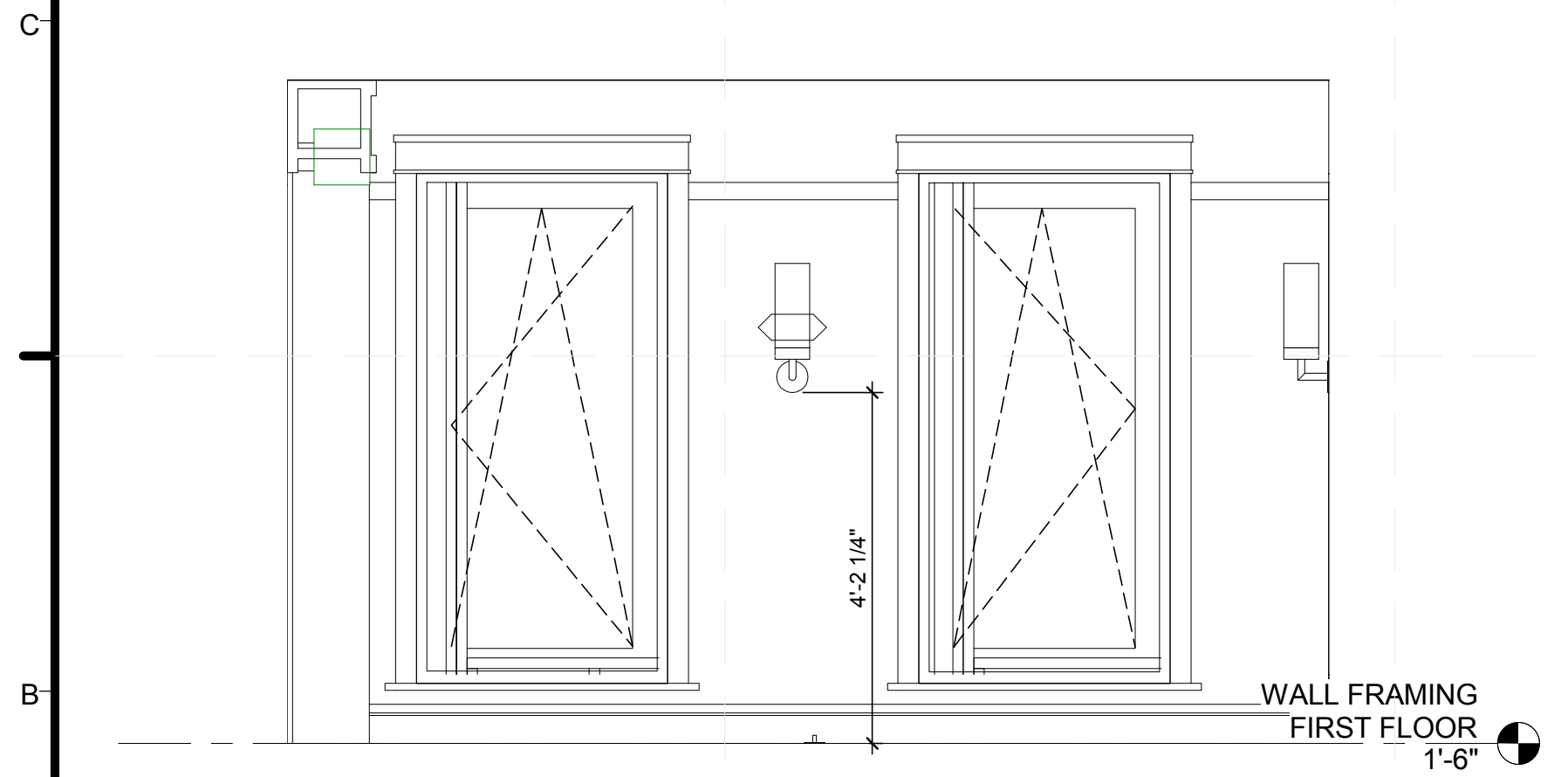
SHEET TITLE  
**INTERIOR ELEVATIONS  
BATHROOM  
BEDROOM**  
SHEET INDEX  
**A-215**



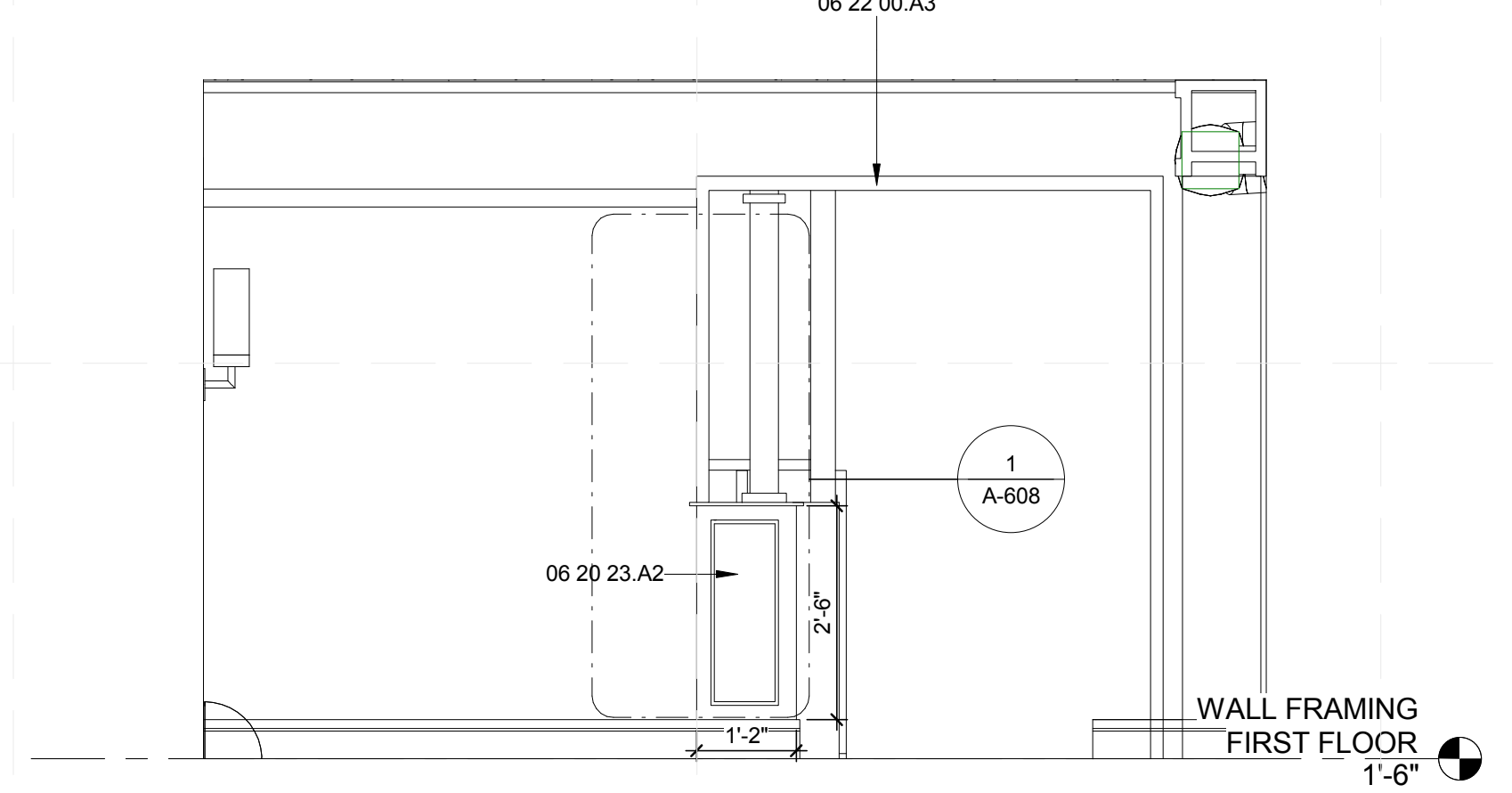


**D1** LIVING ROOM- SOUTH  
1/2" = 1'-0"

**D4** LIVING ROOM - NORTH  
1/2" = 1'-0"



**B1** LIVING ROOM- EAST  
1/2" = 1'-0"



**B4** LIVING ROOM- WEST  
1/2" = 1'-0"

**GENERAL SHEET NOTES**

ALL LIVING ROOM INTERIOR WALL FINISHES AND TRIM MATERIALS ARE TYPICAL TO LIVING ROOM NORTH ELEVATION UNLESS OTHERWISE NOTED

**REFERENCE KEYNOTES**

06 20 23.A2	INTERIOR FINISH CARPENTRY
06 22 00.A3	1X3 WOOD TRIM
06 22 00.A6	1X6 WOOD TRIM
09 21 16	GYPSUM BOARD ASSEMBLIES
23 37 13.B1	SUPPLY REGISTER
26 50 00	LIGHTING

**SHEET KEYNOTES**

78	CENTER SCONCES BETWEEN WINDOWS
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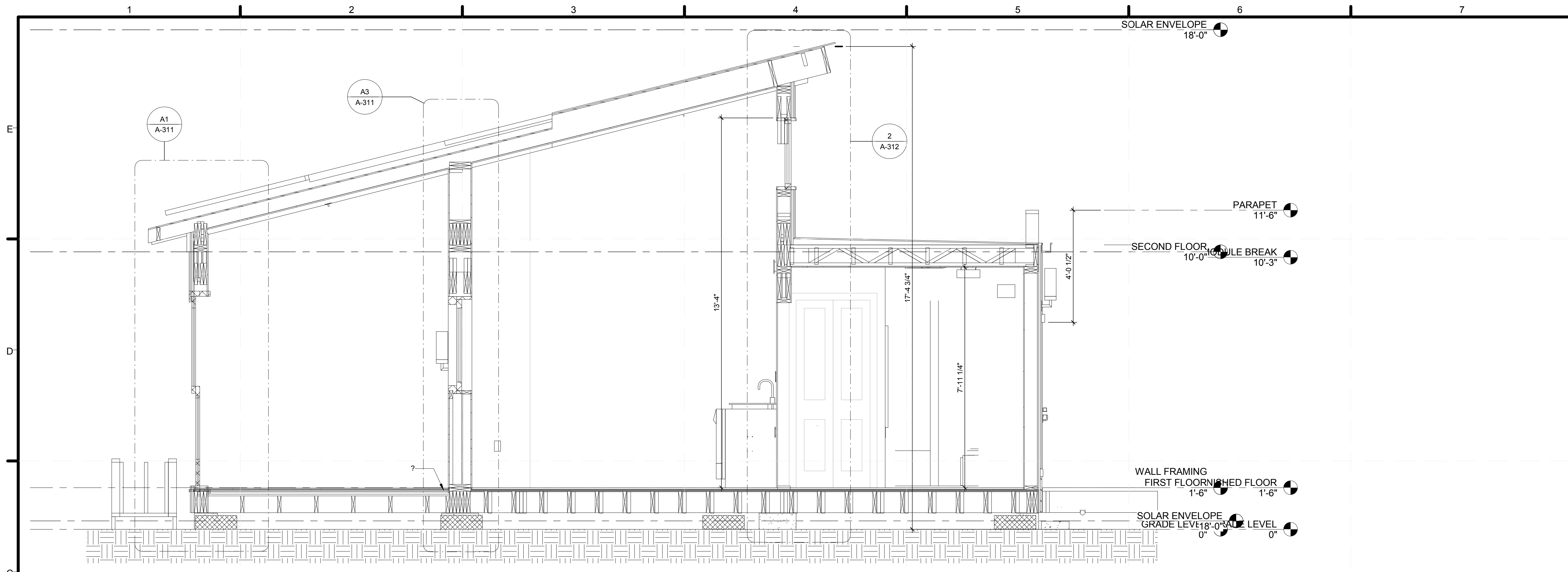
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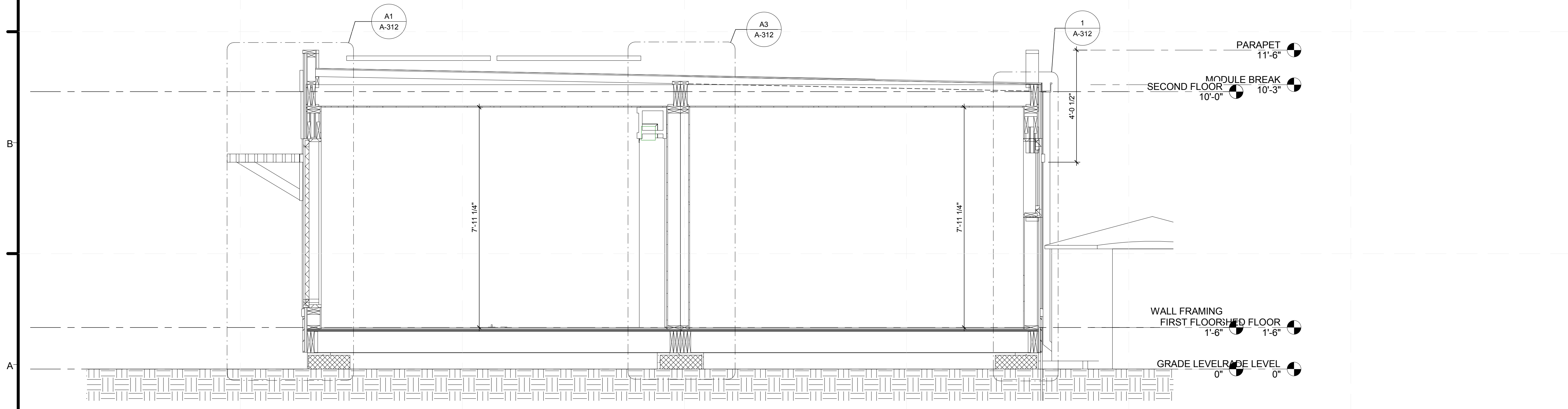
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SHEET TITLE  
**INTERIOR ELEVATIONS LIVING ROOM**  
SHEET INDEX

**A-216**



**C1** BUILDING SECTION LOOKING WEST 1  
1/2" = 1'-0"



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

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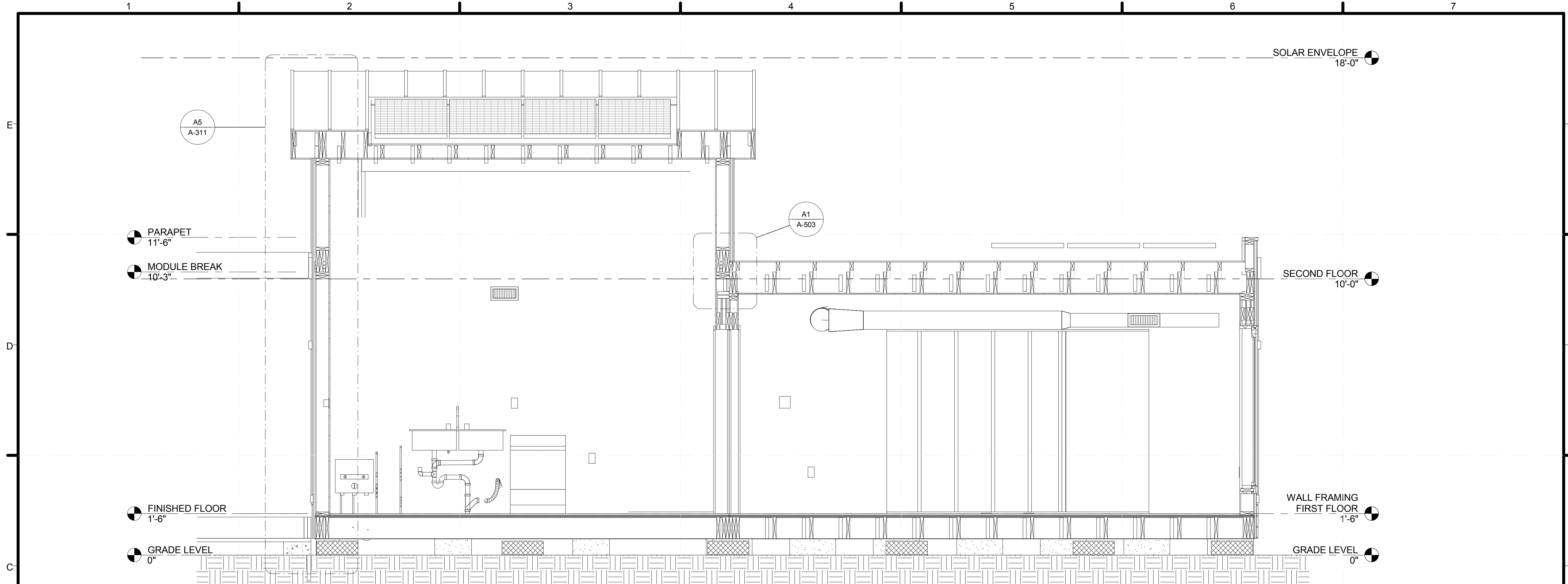
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SHEET TITLE  
**BUILDING SECTIONS**

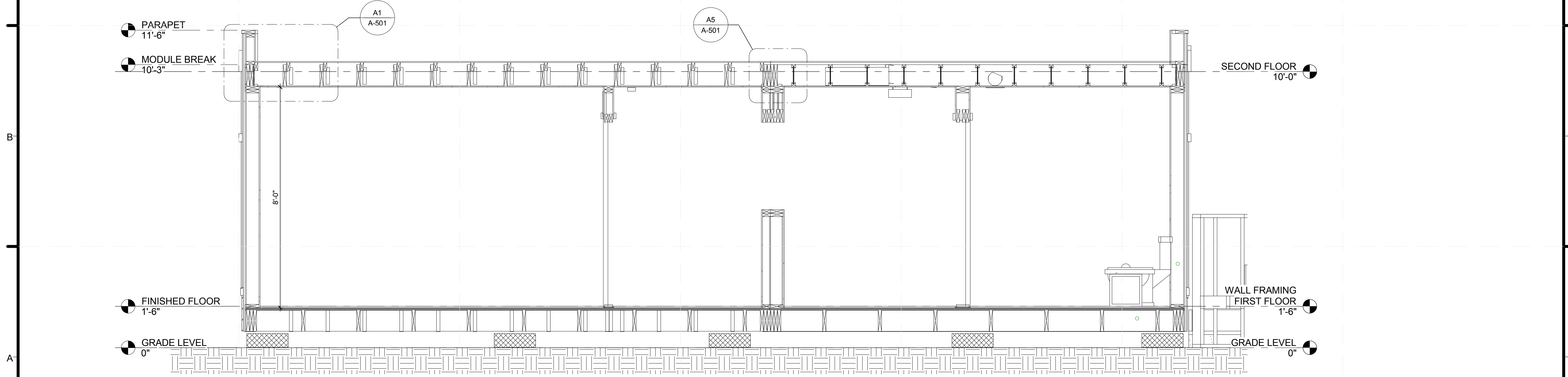
SHEET INDEX

**A-301**

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**C1 BUILDING SECTION LOOKING NORTH1**  
1/2" = 1'-0"



**A1 Section 10**  
1/2" = 1'-0"

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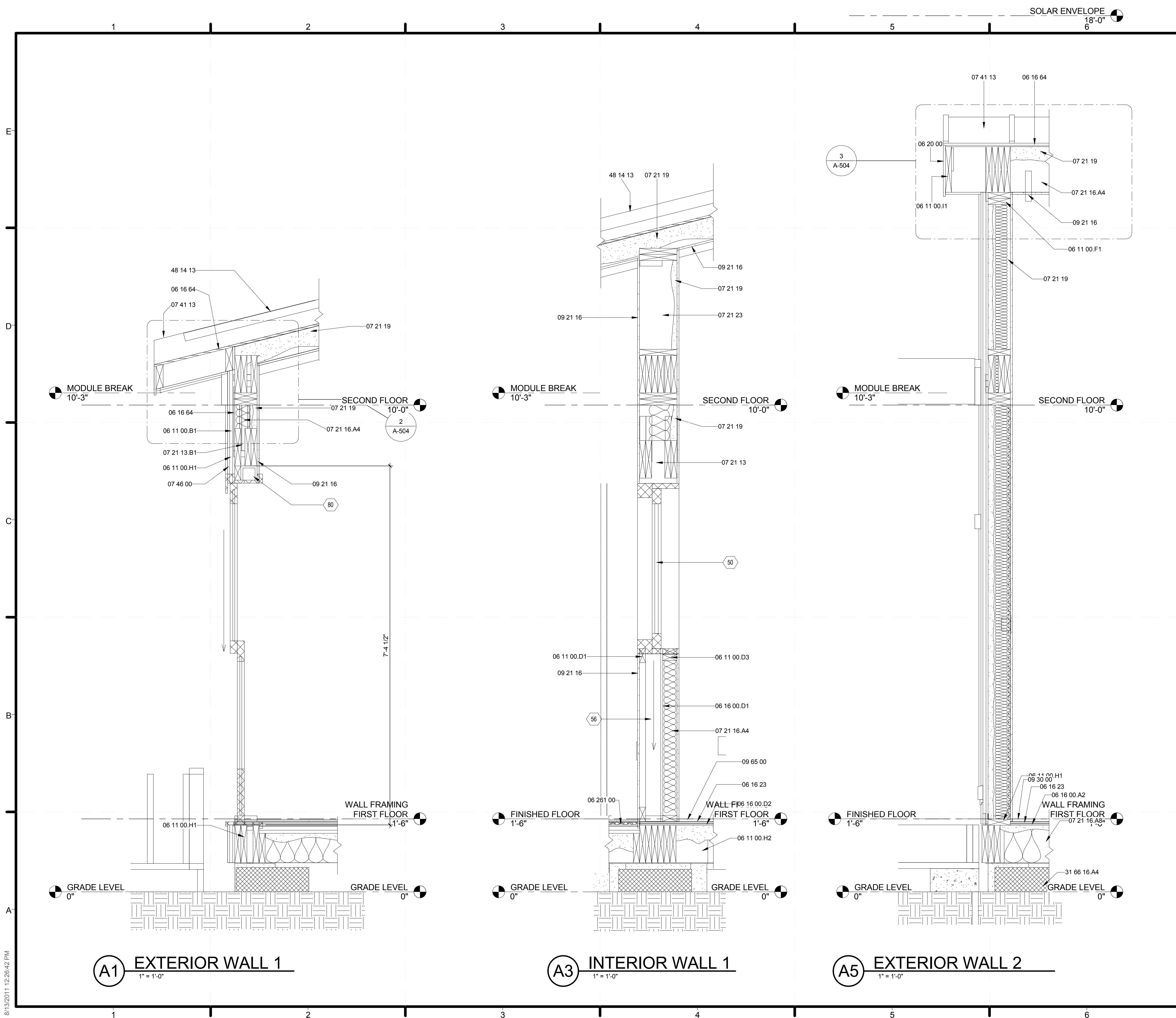
SHEET TITLE  
**BUILDING SECTIONS**

SHEET INDEX

**A-302**

8/13/2011 12:28:39 PM





**GENERAL SHEET NOTES**

1. SEE STRUCTURAL DRAWINGS FOR CONFIRMATION OF STRUCTURAL MEMBER PLACEMENT
2. SEE STRUCTURAL DRAWINGS FOR CONFIRMATION OF CONCRETE FOOTING SIZES AND POSITION
3. ALL EXTERIOR WALLS TO HAVE 4 MIL PLASTIC VAPOR RETARDER ON INTERIOR SIDE OF STUD.
4. INSTALL PHASE CHANGE MATERIAL ON INTERIOR OF EAST AND WEST SUNSPACE WALLS BEGINNING AT SUBFLOOR UP TO 9'0"
5. BUILDING PAPER APPLIED TO INTERIOR OF SUNSPACE WALLS
- 6.

**REFERENCE KEYNOTES**

06 11 00.B1	1 X 3 FURRING STRIPS
06 11 00.D1	2X4
06 11 00.D3	2X4 FRAMING
06 11 00.F1	2X6
06 11 00.H1	2X10
06 11 00.H2	2X10 JOISTS
06 11 00.I1	2X12
06 16 00.A2	3/8" GYPSUM SHEATHING
06 16 00.D1	PLYWOOD SHEATHING
06 16 00.D2	PLYWOOD SUBFLOOR
06 16 23	SUBFLOORING
06 16 64	7/16" ZIP PANEL WALL SHEATHING
06 20 00	FINISH CARPENTRY
06 261 00	FIBERGLASS REINFORCED PLASTIC (FRP) FABRICATIONS - PULTRUDED PEDESTRIAN GRATING
07 21 13	BOARD INSULATION
07 21 13.B1	1/2" RIGID INSULATION
07 21 16.A4	R-19 BATT INSULATION
07 21 16.A8	R-30 BATT INSULATION
07 21 19	FOAMED-IN PLACE INSULATION
07 21 23	BLOWN INSULATION
07 41 13	METAL ROOF PANELS
07 46 00	1/2" MDO PLYWOOD SIDING
09 21 16	GYPSUM BOARD ASSEMBLIES
09 30 00	TILING
09 65 00	RESILIENT FLOORING
31 66 16.A4	10"X24" PRECAST CONCRETE
48 14 13	SOLAR ENERGY COLLECTORS

**SHEET KEYNOTES**

34	2 X WOOD FLOOR JOIST 06 10 00 SEE STRUCTURAL
36	2 X WOOD RAFTER 06 10 00 SEE STRUCTURAL
39	1/4" CORK FLOOR TILES 09 65 20
40	1/8" CERAMIC TILE 09 30 36
46	CONCRETE FOOTING SEE STRUCTURAL
50	MOTORIZED POCKET WINDOW SEE A 311 SECTION 3
56	POCKET FOR MOTORIZED WINDOW
80	SLOPED WALKWAY

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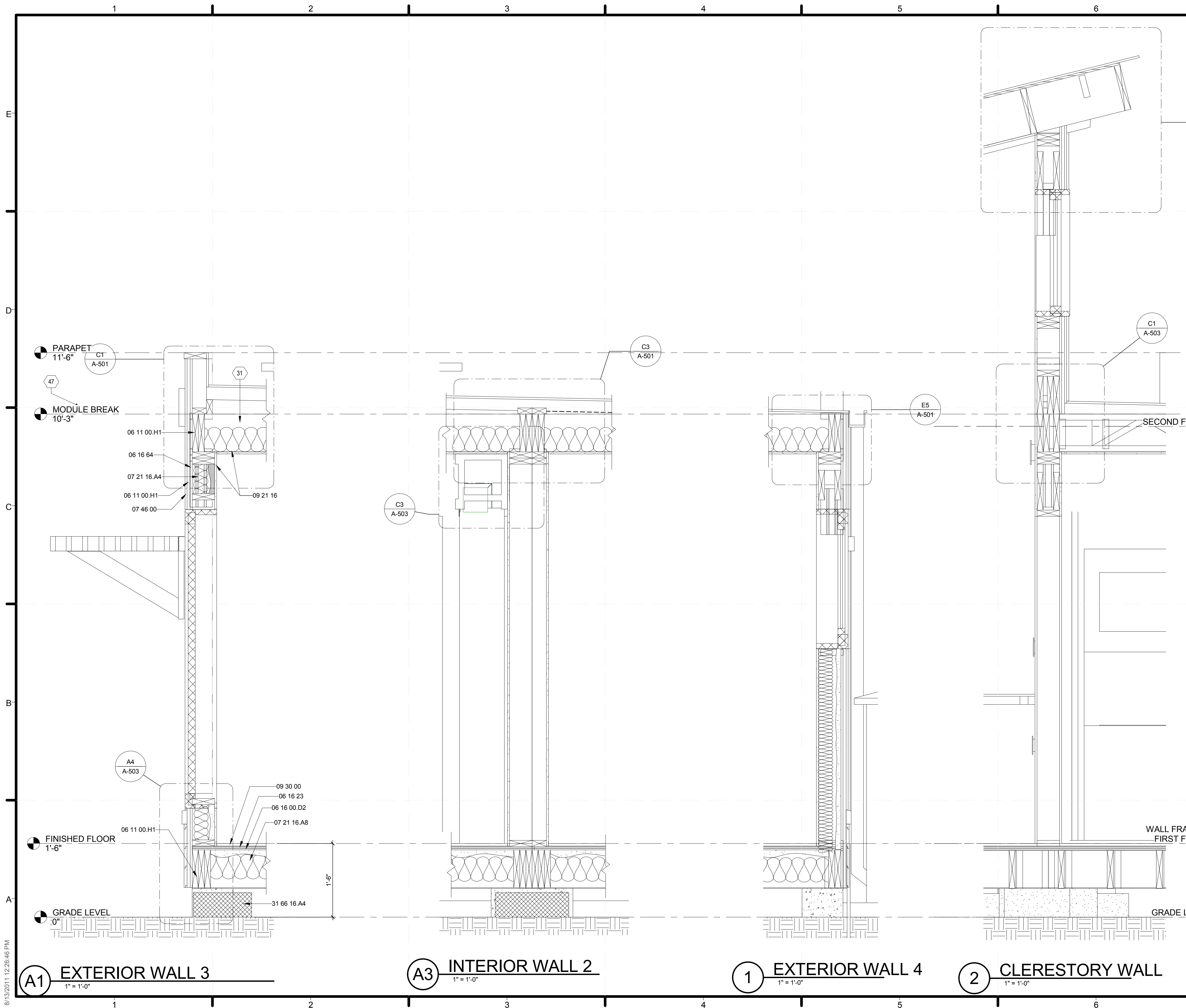
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SHEET TITLE  
**WALL SECTIONS**

SHEET INDEX

**A-311**



**GENERAL SHEET NOTES**

1. SEE STRUCTURAL DRAWINGS FOR CONFIRMATION OF STRUCTURAL MEMBER PLACEMENT
2. SEE STRUCTURAL DRAWINGS FOR CONFIRMATION OF CONCRETE FOOTING SIZES AND POSITION
3. ALL EXTERIOR WALLS TO HAVE 4 MIL PLASTIC VAPOR RETARDER ON INTERIOR SIDE OF STUD.

**SHEET KEYNOTES**

31	6" SPRAY FOAM INSULATION 07 21 19
47	1" X 12" CEDAR CORNICE, STAINED

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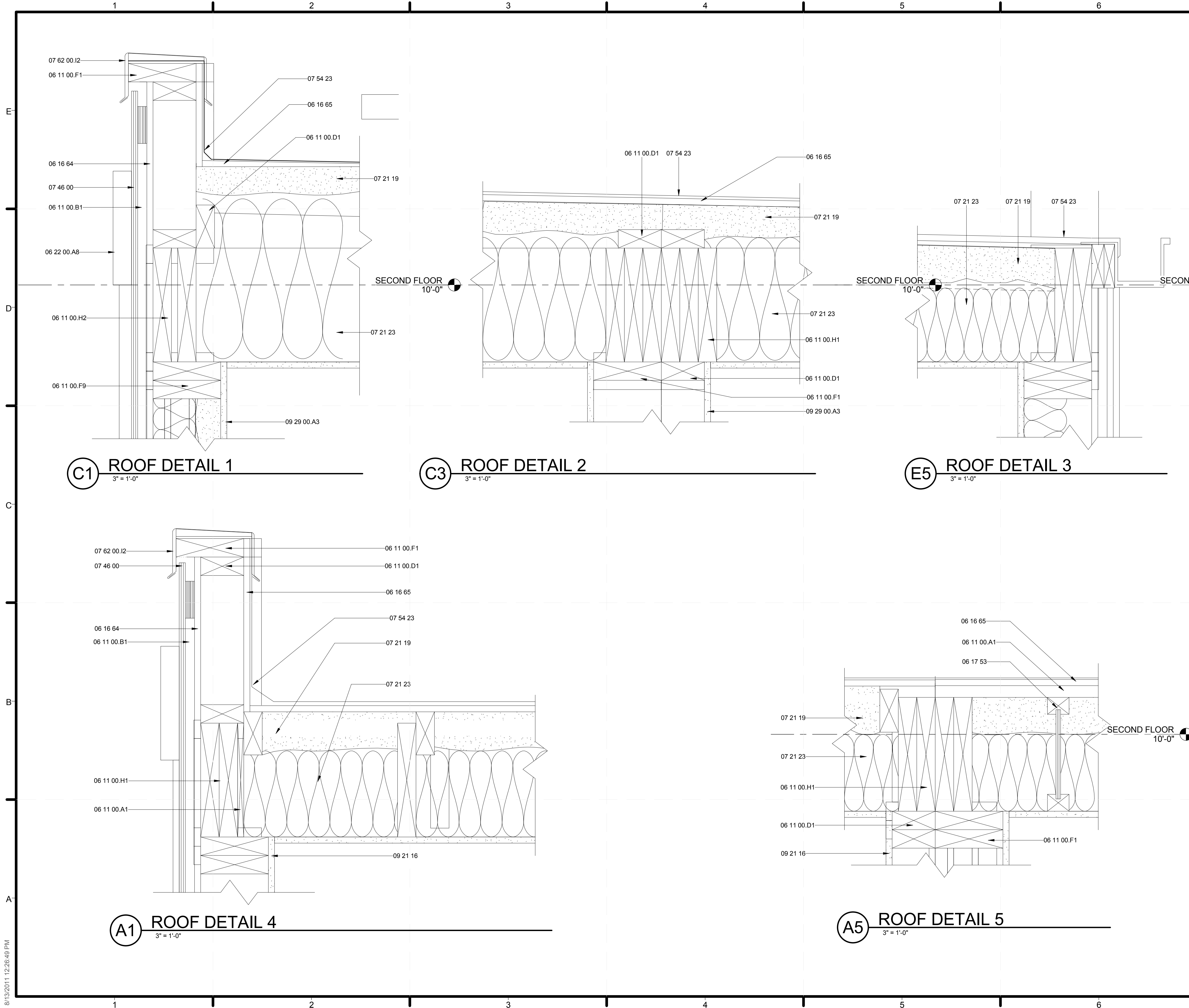
SHEET TITLE  
**WALL SECTIONS**

SHEET INDEX

**A-312**

8/13/2011 12:28:46 PM





**REFERENCE KEYNOTES**

06 11 00.A1	BLOCKING
06 11 00.B1	1 X 3 FURRING STRIPS
06 11 00.D1	2X4
06 11 00.F1	2X6
06 11 00.F9	2X6 JOISTS
06 11 00.H1	2X10
06 11 00.H2	2X10 JOISTS
06 16 64	7/16" ZIP PANEL WALL SHEATHING
06 16 65	1/2" ZIP PANEL ROOF SHEATHING
06 17 53	SHOP-FABRICATED WOOD TRUSSES
06 22 00.A8	1X10 WOOD TRIM
07 21 19	FOAMED-IN PLACE INSULATION
07 21 23	BLOWN INSULATION
07 46 00	1/2" MDO PLYWOOD SIDING
07 54 23	THERMOPLASTIC-POLYOLEFIN ROOFING
07 62 00.I2	7" COPING
07 71 00.A1	GUTTER
09 21 16	GYPSUM BOARD ASSEMBLIES
09 29 00.A3	1/2" GYPSUM WALLBOARD

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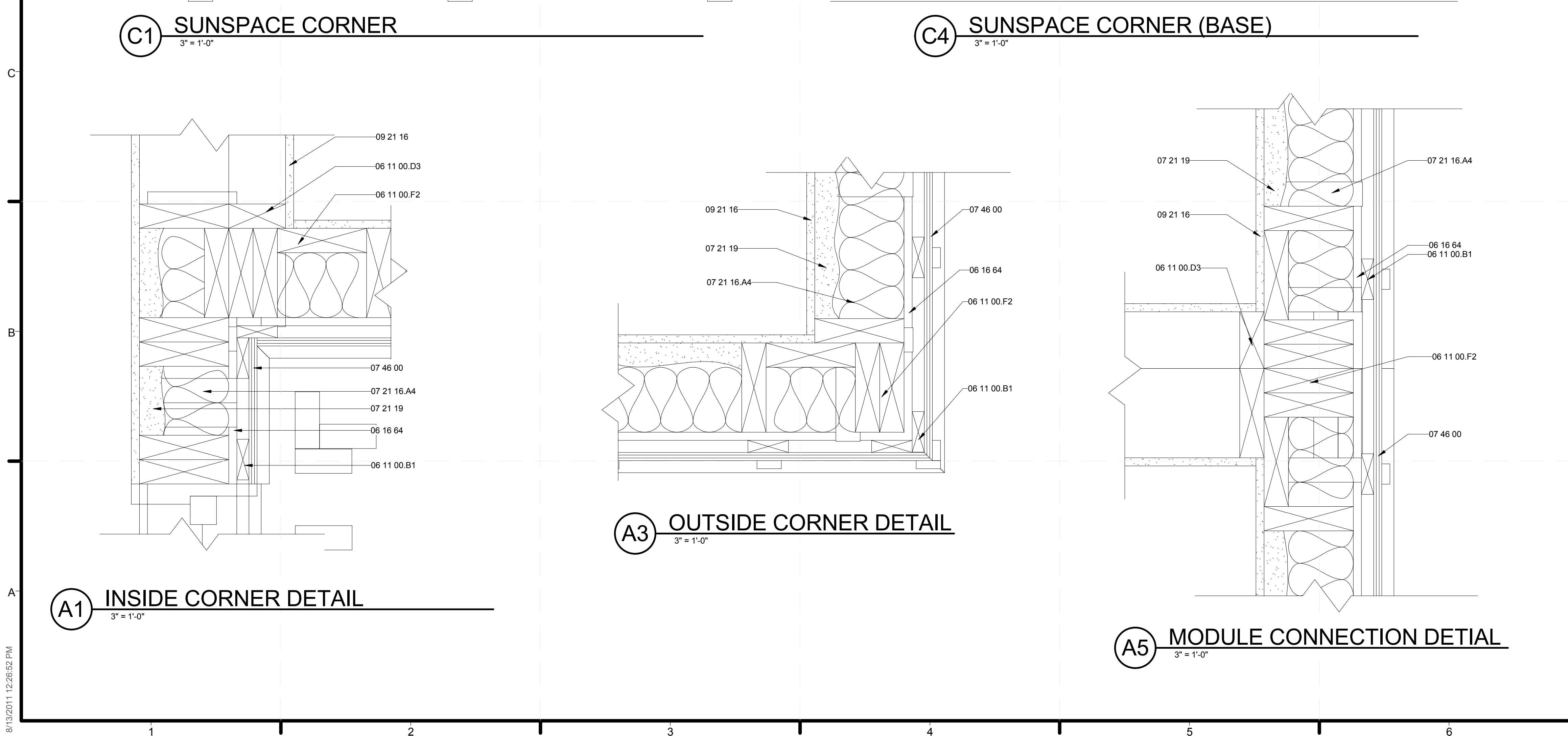
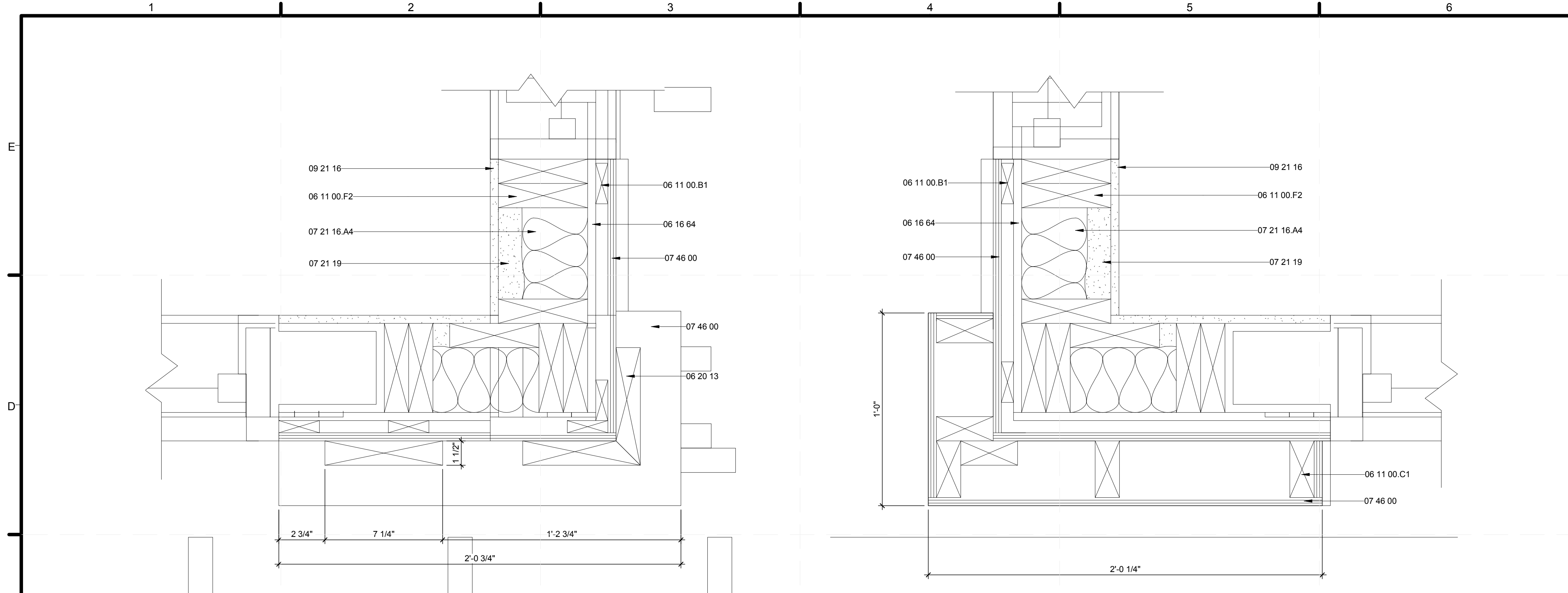
SHEET TITLE  
**ROOF DETAILS**

SHEET INDEX

**A-501**

8/13/2011 12:28:49 PM





GENERAL SHEET NOTES	
1.	INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2.	WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.

REFERENCE KEYNOTES	
06 11 00.B1	1 X 3 FURRING STRIPS
06 11 00.C1	2X3
06 11 00.D3	2X4 FRAMING
06 11 00.F2	2X6 FRAMING
06 16 64	7/16" ZIP PANEL WALL SHEATHING
06 20 13	EXTERIOR FINISH CARPENTRY
07 21 16.A4	R-19 BATT INSULATION
07 21 19	FOAMED-IN PLACE INSULATION
07 46 00	1/2" MDO PLYWOOD SIDING
09 21 16	GYPSUM BOARD ASSEMBLIES

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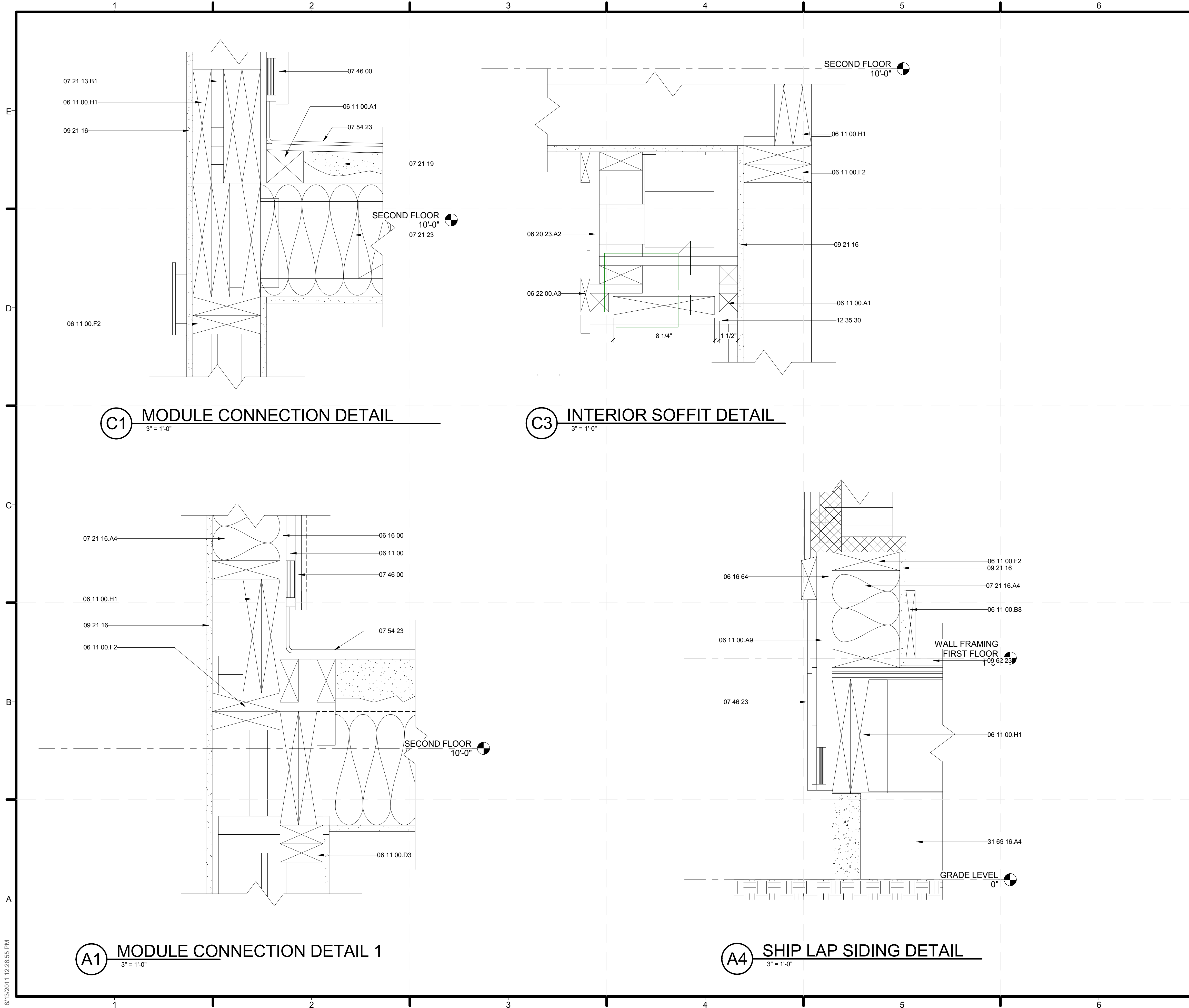
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**PLAN DETAILS**

SHEET TITLE  
**PLAN DETAILS**

SHEET INDEX  
**A-502**

8/13/2011 12:28:52 PM



**GENERAL SHEET NOTES**

1. INTERIOR AND EXTERIOR WALLS DIMENSIONED TO FACE OF STUD.
2. WINDOWS AND DOORS DIMENSIONED TO CENTERLINE.

**REFERENCE KEYNOTES**

06 11 00	WOOD FRAMING
06 11 00.A1	BLOCKING
06 11 00.A9	FURRING
06 11 00.B8	1X6
06 11 00.D3	2X4 FRAMING
06 11 00.F2	2X6 FRAMING
06 11 00.H1	2X10
06 16 00	SHEATHING
06 16 64	7/16" ZIP PANEL WALL SHEATHING
06 20 23.A2	INTERIOR FINISH CARPENTRY
06 22 00.A3	1X3 WOOD TRIM
07 21 13.B1	1/2" RIGID INSULATION
07 21 16.A4	R-19 BATT INSULATION
07 21 19	FOAMED-IN PLACE INSULATION
07 21 23	BLOWN INSULATION
07 46 00	1/2" MDO PLYWOOD SIDING
07 46 23	WOOD SIDING
07 54 23	THERMOPLASTIC-POLYOLEFIN ROOFING
09 21 16	GYPSUM BOARD ASSEMBLIES
09 62 23	BAMBOO FLOORING
12 35 30	RESIDENTIAL CASEWORK
31 65 16.A4	10"X24" PRECAST CONCRETE

**SHEET KEYNOTES**

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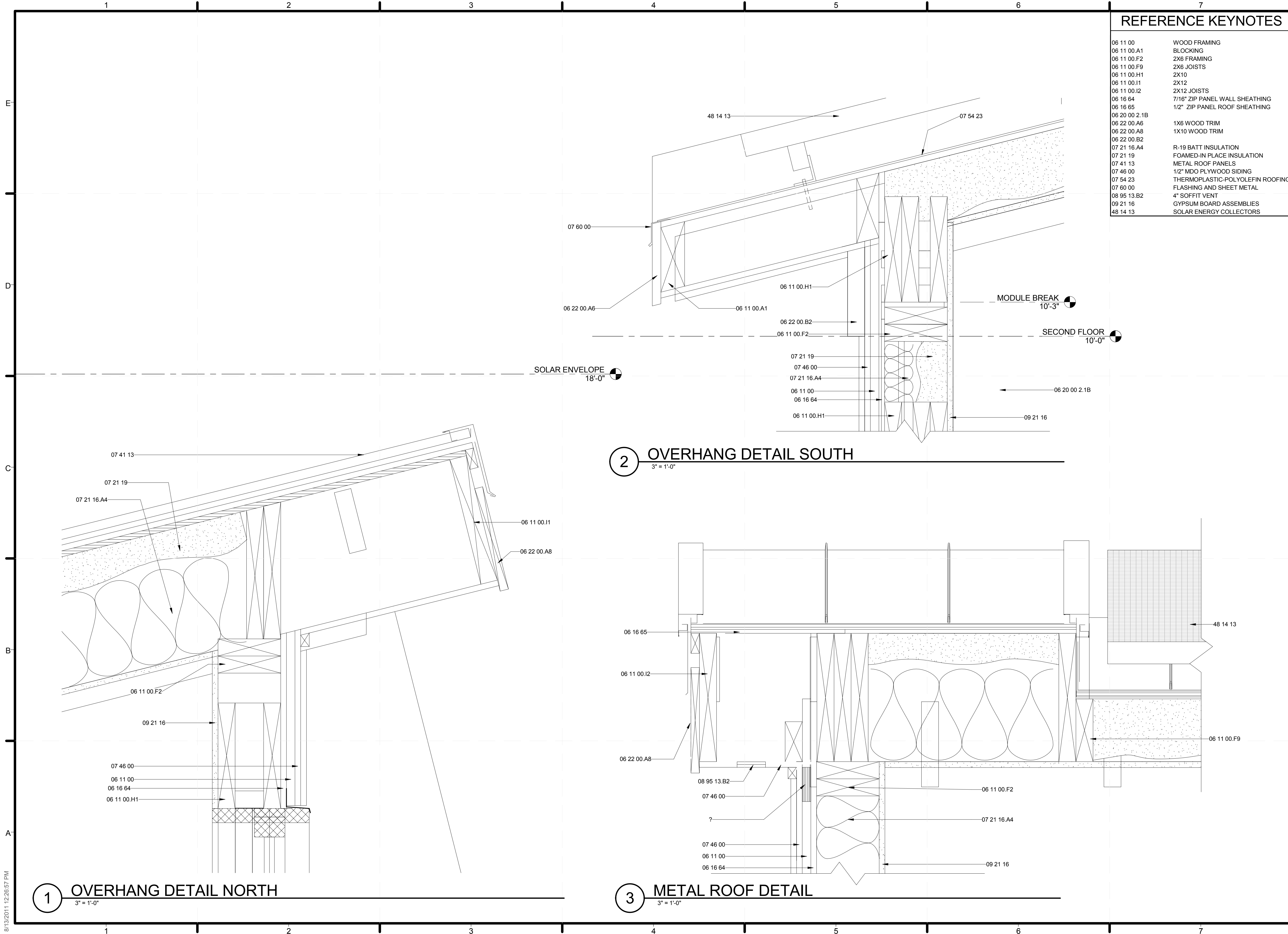
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**SECTION DETAILS**

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**SECTION DETAILS**  
SHEET INDEX

**A-503**

8/13/2011 12:28:55 PM





**REFERENCE KEYNOTES**

06 11 00	WOOD FRAMING
06 11 00.A1	BLOCKING
06 11 00.F2	2X6 FRAMING
06 11 00.F9	2X6 JOISTS
06 11 00.H1	2X10
06 11 00.I1	2X12
06 11 00.I2	2X12 JOISTS
06 16 64	7/16" ZIP PANEL WALL SHEATHING
06 16 65	1/2" ZIP PANEL ROOF SHEATHING
06 20 00.2.1B	
06 22 00.A6	1X6 WOOD TRIM
06 22 00.A8	1X10 WOOD TRIM
06 22 00.B2	
07 21 16.A4	R-19 BATT INSULATION
07 21 19	FOAMED-IN PLACE INSULATION
07 41 13	METAL ROOF PANELS
07 46 00	1/2" MDO PLYWOOD SIDING
07 54 23	THERMOPLASTIC-POLYOLEFIN ROOFING
07 60 00	FLASHING AND SHEET METAL
08 95 13.B2	4" SOFFIT VENT
09 21 16	GYPSUM BOARD ASSEMBLIES
48 14 13	SOLAR ENERGY COLLECTORS

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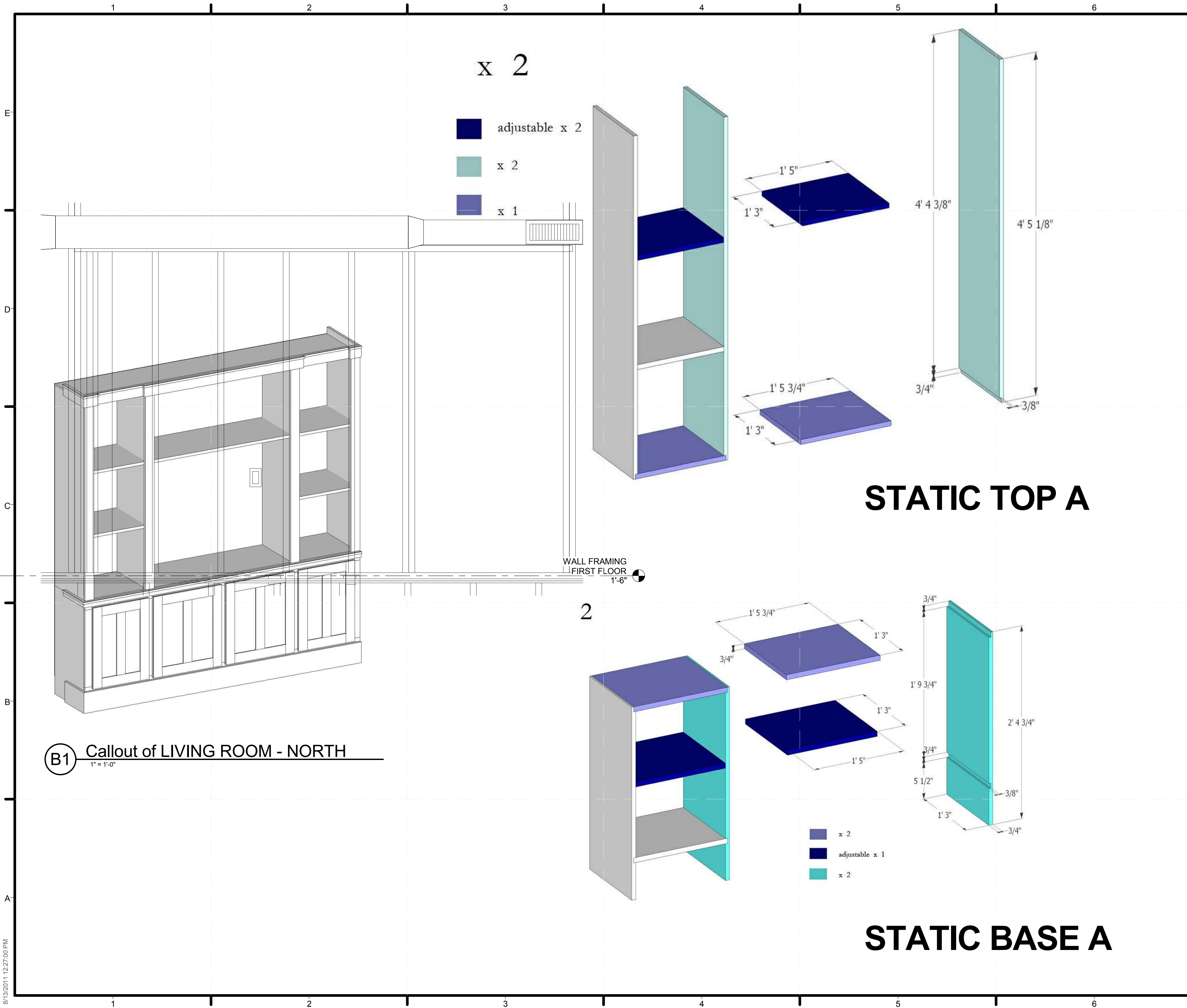
SHEET TITLE  
**SLOPED ROOF DETAILS**

SHEET INDEX

**A-504**

8/13/2011 12:28:57 PM





**GENERAL SHEET NOTES**

1. MATERIAL IS MDO.
2. ALL 1' 5" WIDE SHELVES ARE ADJUSTABLE.

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**A-601**

8/13/2011 12:27:00 PM



**GENERAL SHEET NOTES**

1. MATERIAL IS MDO.
2. ALL 3' 4" WIDE SHELVES ARE ADJUSTABLE.

**TEAM TIDEWATER VIP**  
 Old Dominion University and Hampton

**unit**  
 unit si

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 Environmental Old Dominion University  
 Kaufman Hall Norfolk, VA

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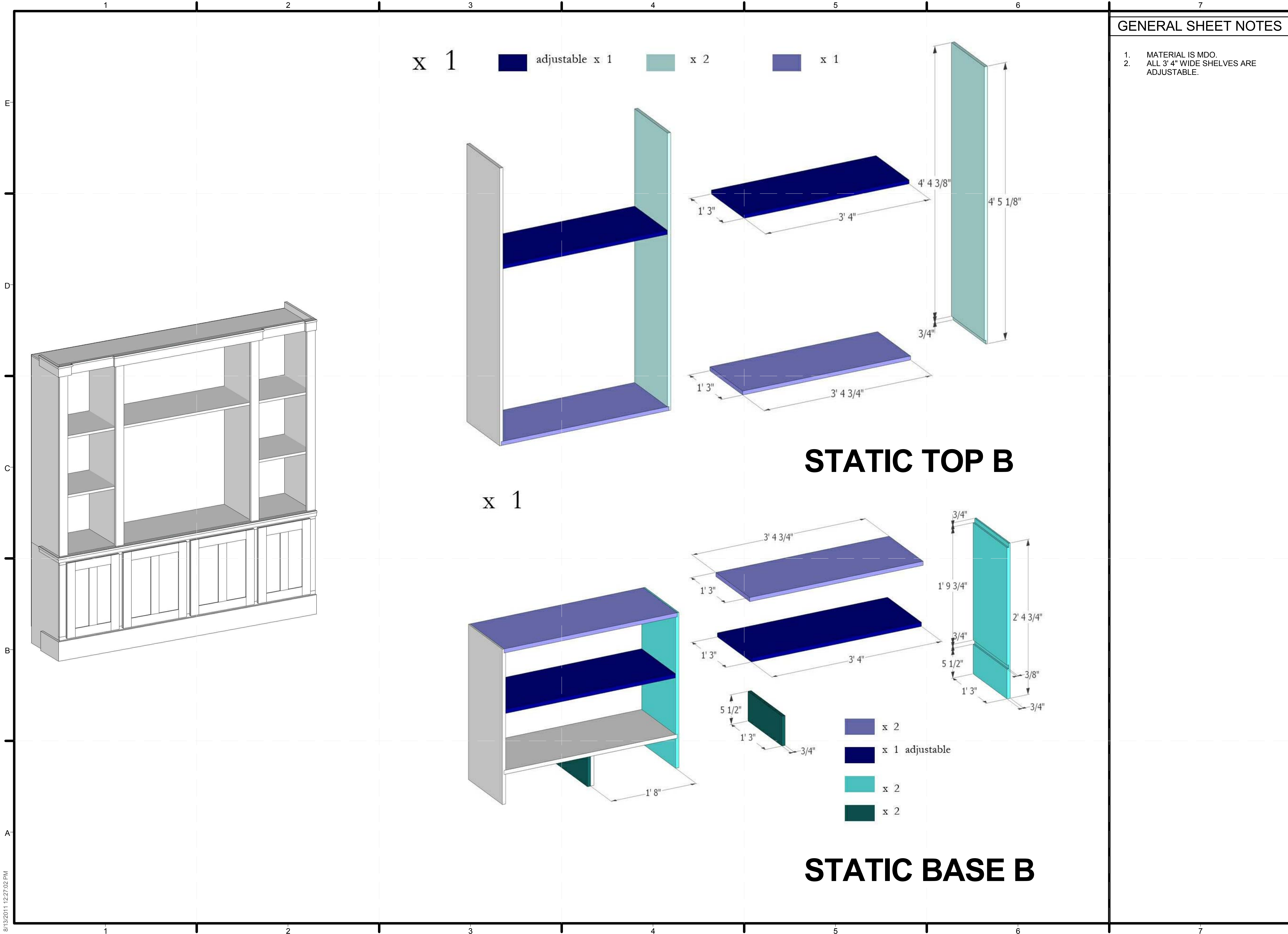
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GENERAL SHEET NOTES

1. MATERIAL IS MDO.

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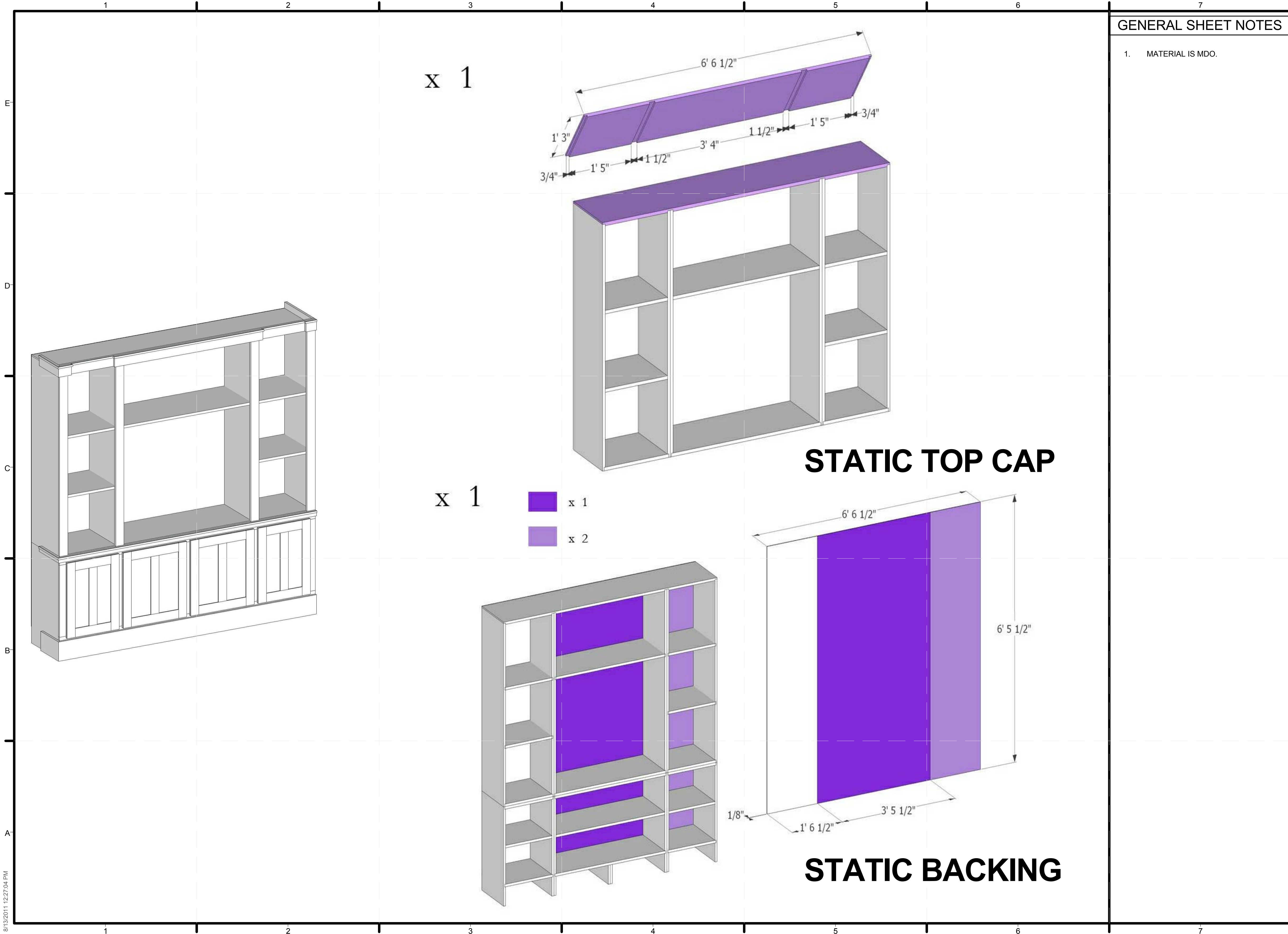
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A-603



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GENERAL SHEET NOTES

1. MATERIAL IS MDO.
2. CABINET DOORS ARE MDO WITH POPLAR TRIM.

TEAM TIDEWATER VIP  
Old Dominion University and Hampton



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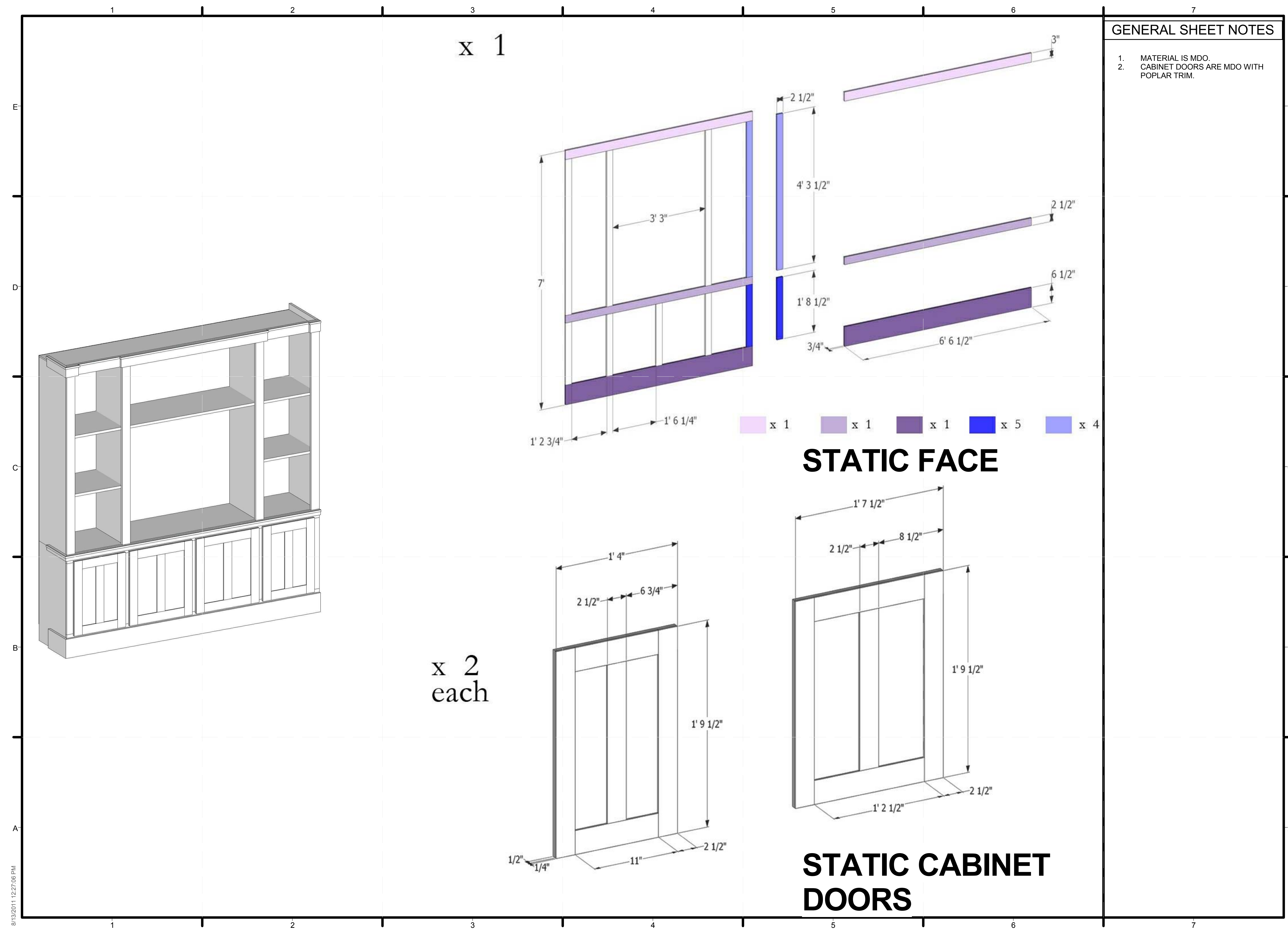
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CASEWORK

A-604



x 1

x 2  
each

STATIC FACE

STATIC CABINET DOORS

8/13/2011 12:27:06 PM



GENERAL SHEET NOTES

- 1. ALL TRIM MATERIAL IS POPLAR.

TEAM TIDEWATER VINTAGE  
Old Dominion University and Hampton University

unit  
si

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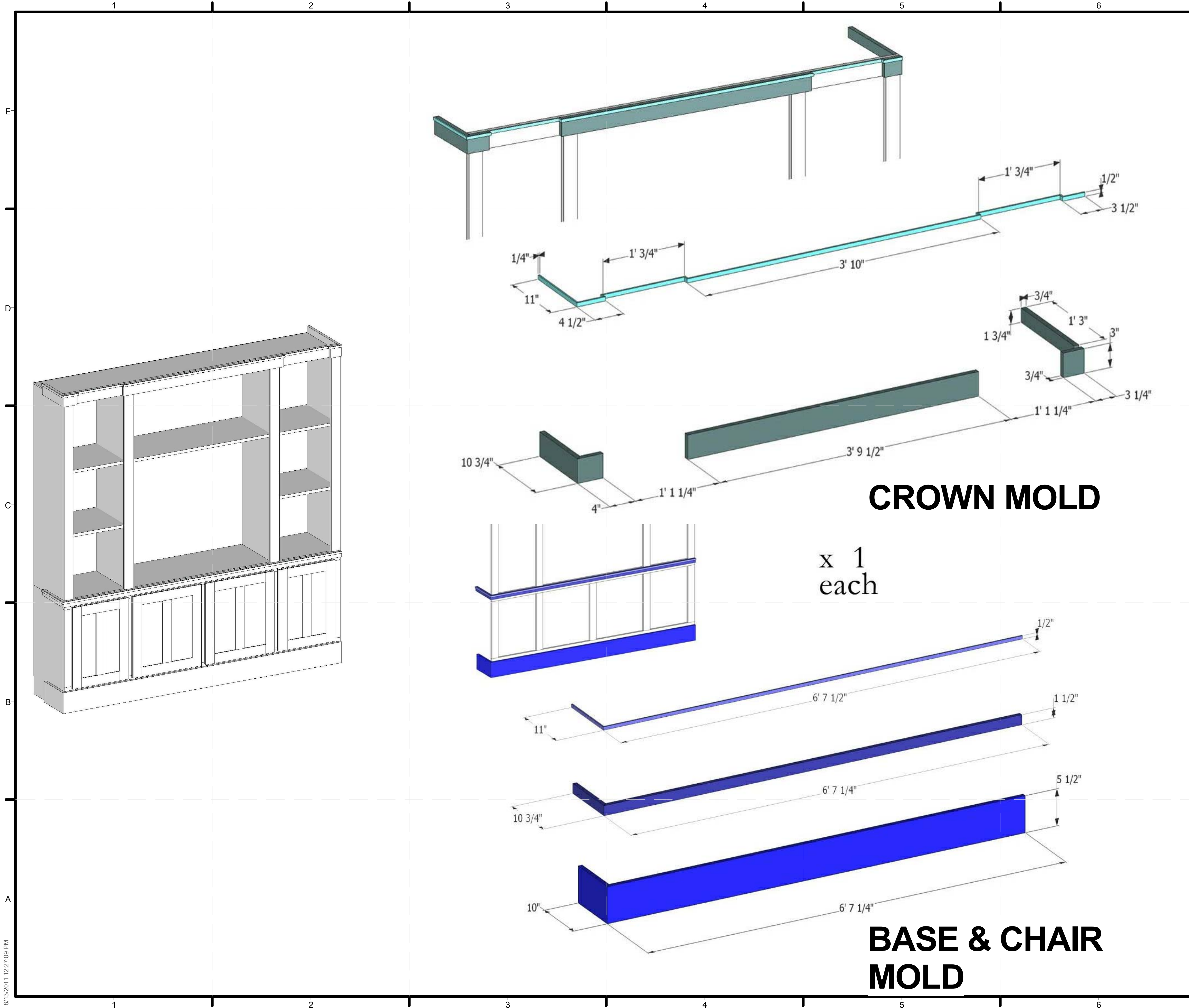
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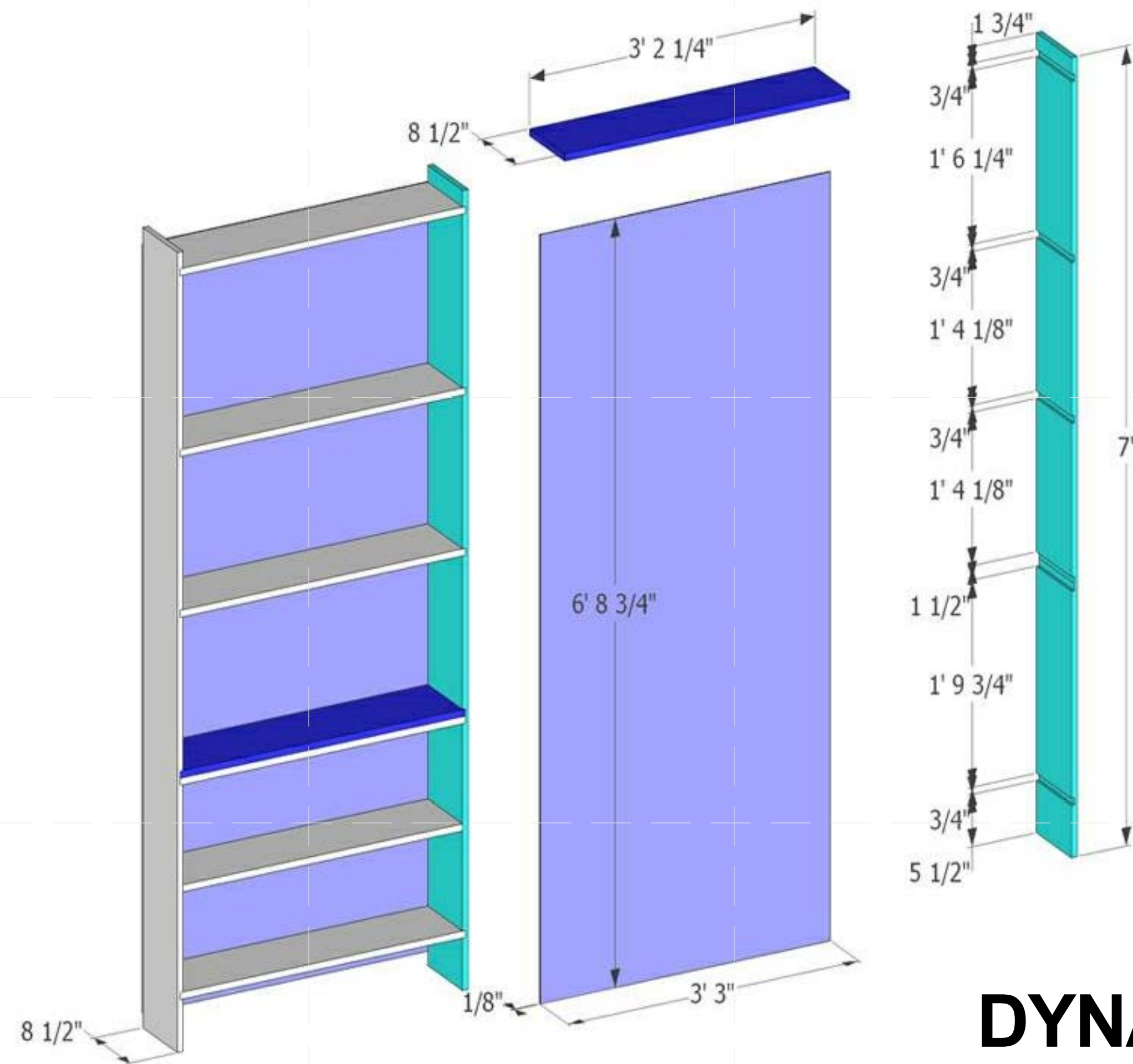
CASEWORK

A-605



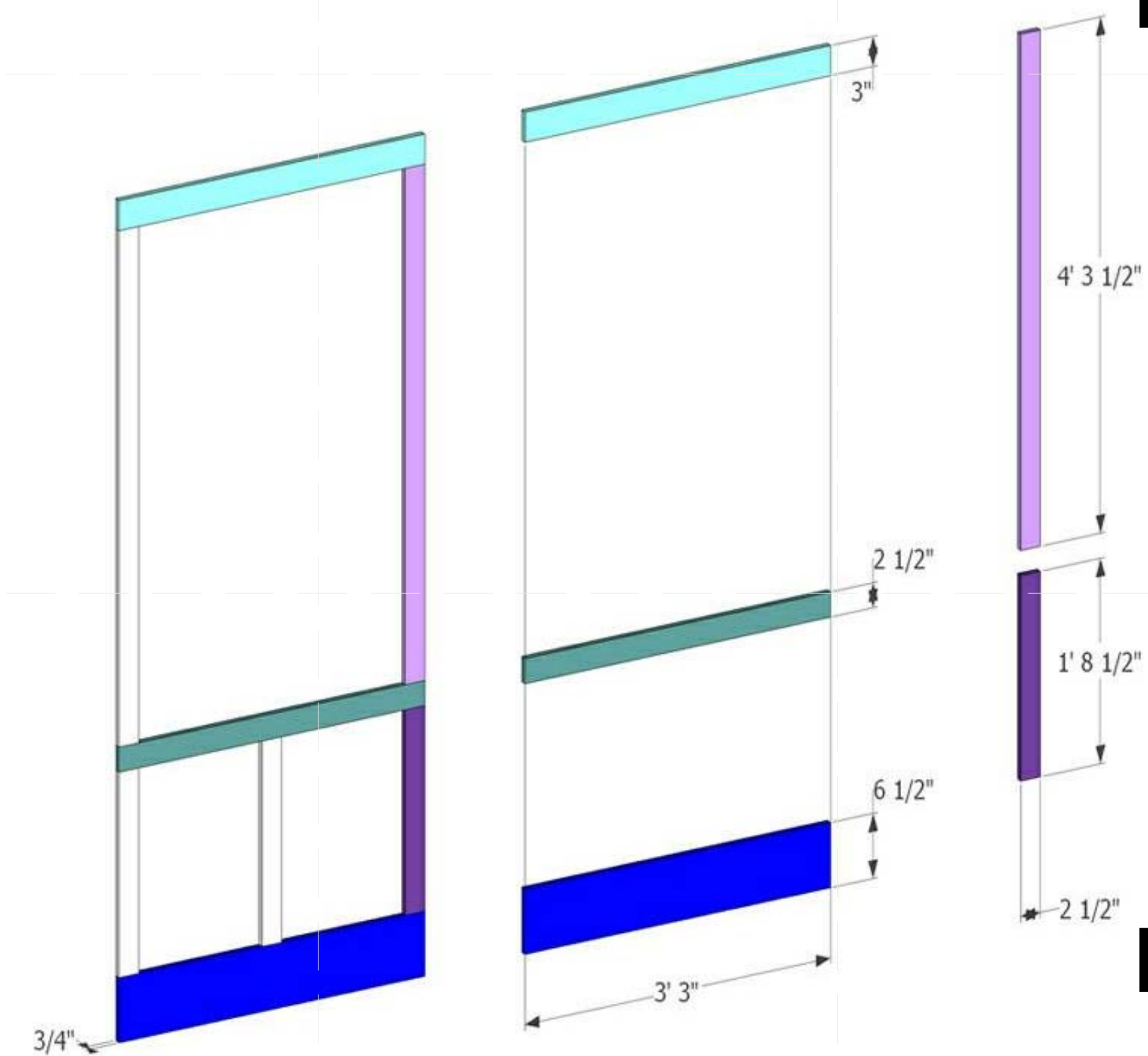
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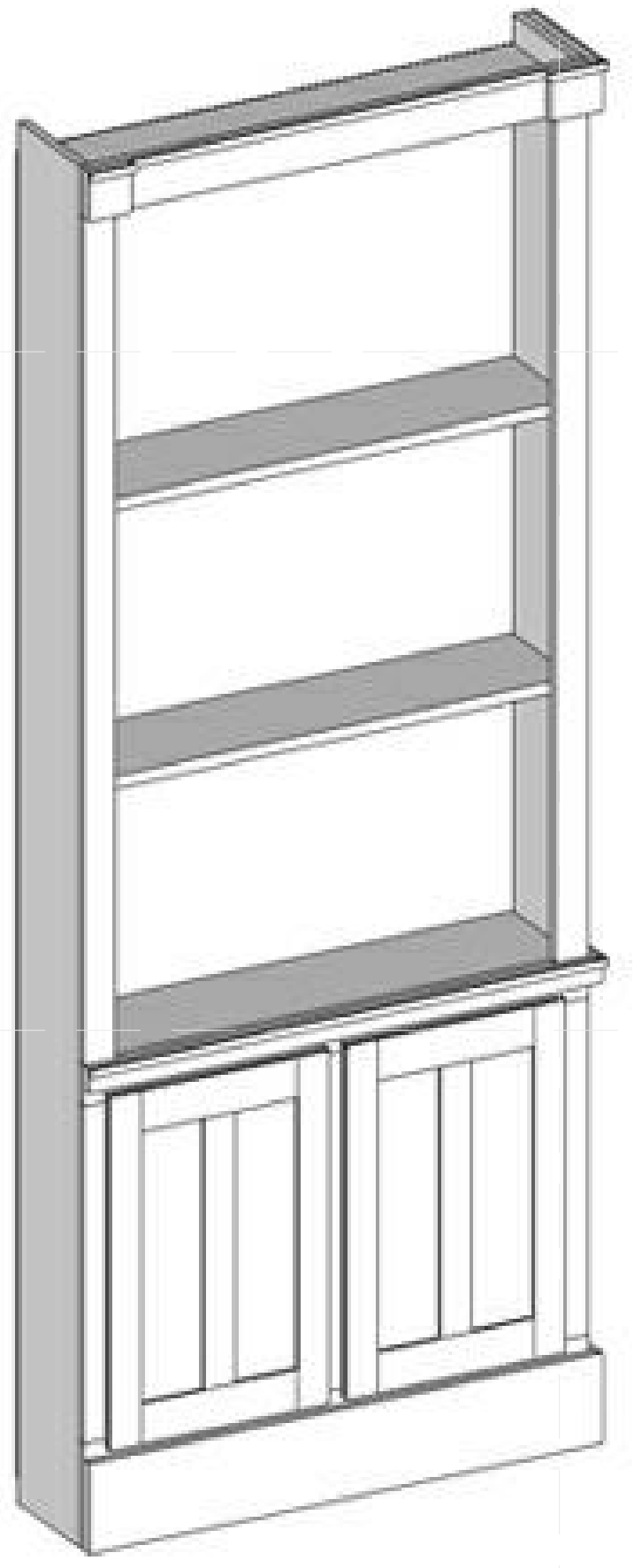
# DYNAMIC FRAME, SHELVES, AND BACKING

- X 1
- X 7
- X 2



# DYNAMIC FACE

- X 1
- X 1
- X 1
- X 2
- X 3



## GENERAL SHEET NOTES

1. MATERIAL IS MDO.

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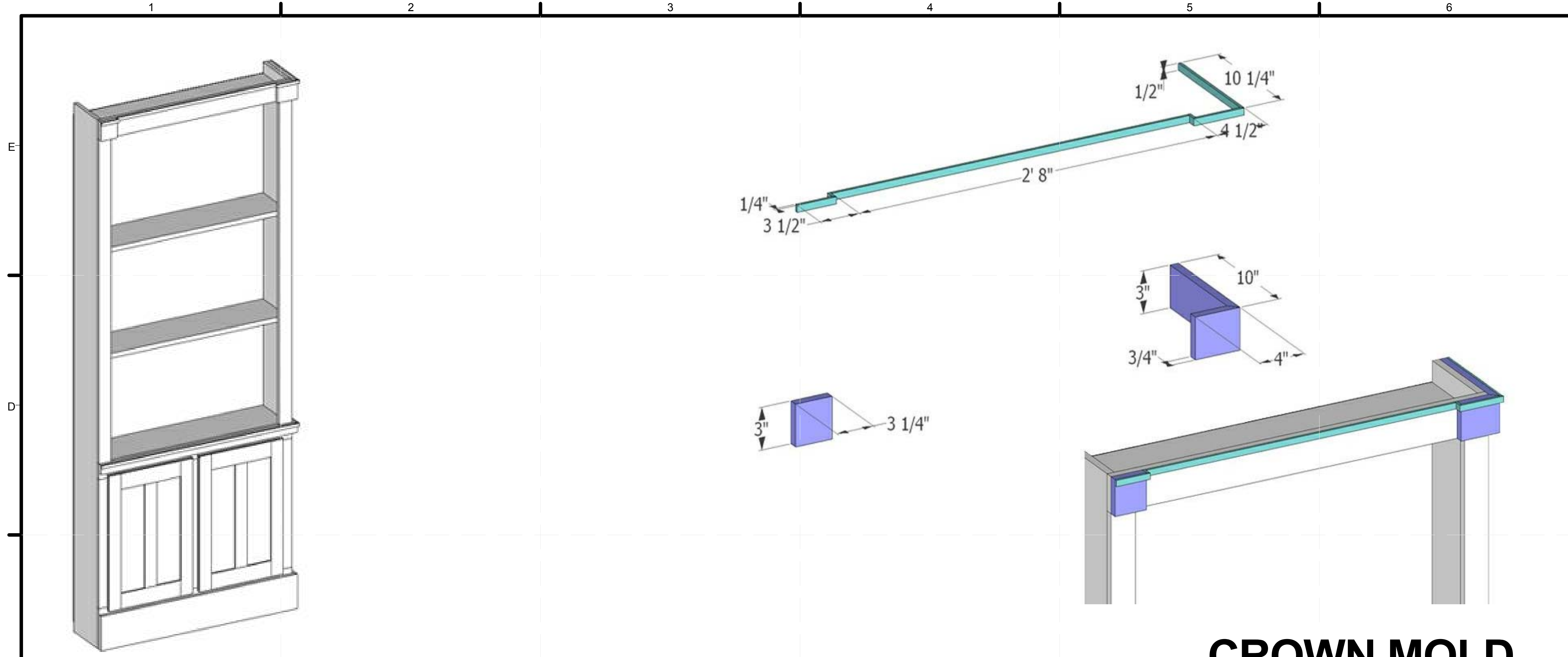
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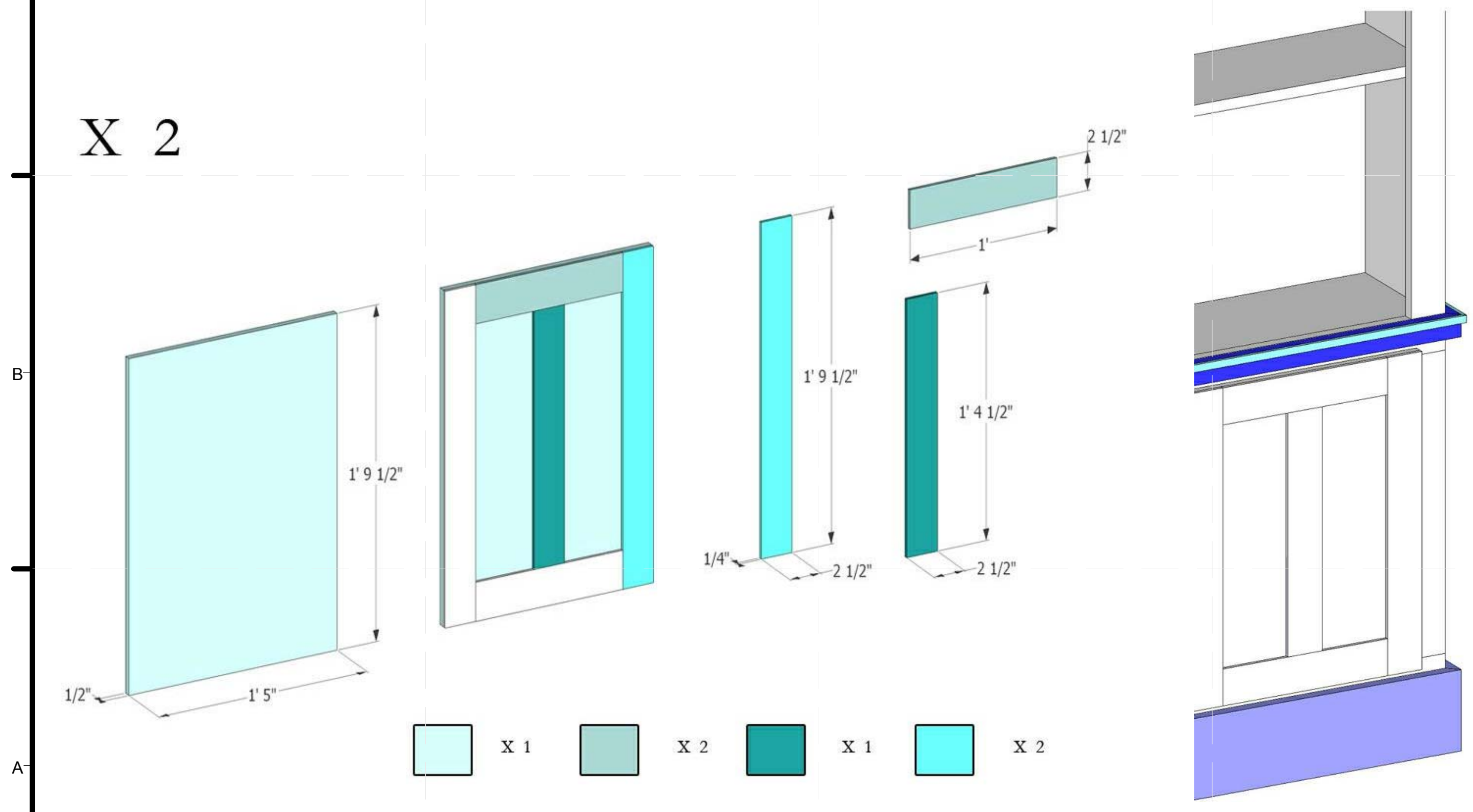
SHEET TITLE  
**CASEWORK**

SHEET INDEX  
**A-606**

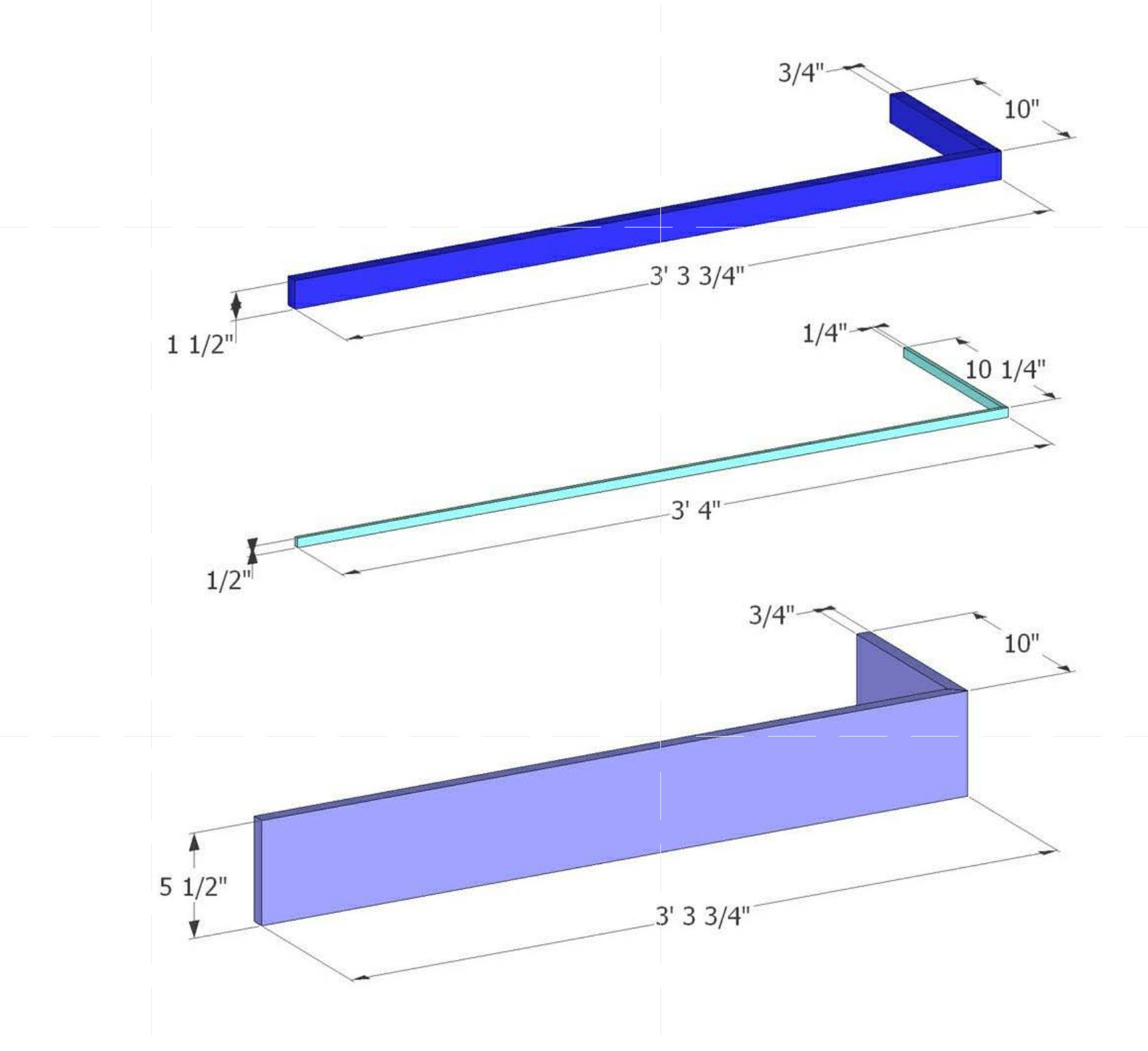




**CROWN MOLD**



**CABINET DOORS**



**BASE & CHAIR MOLD**

**GENERAL SHEET NOTES**

- ALL TRIM MATERIAL IS POPLAR.
- CABINET DOORS ARE MDO WITH POPLAR TRIM.

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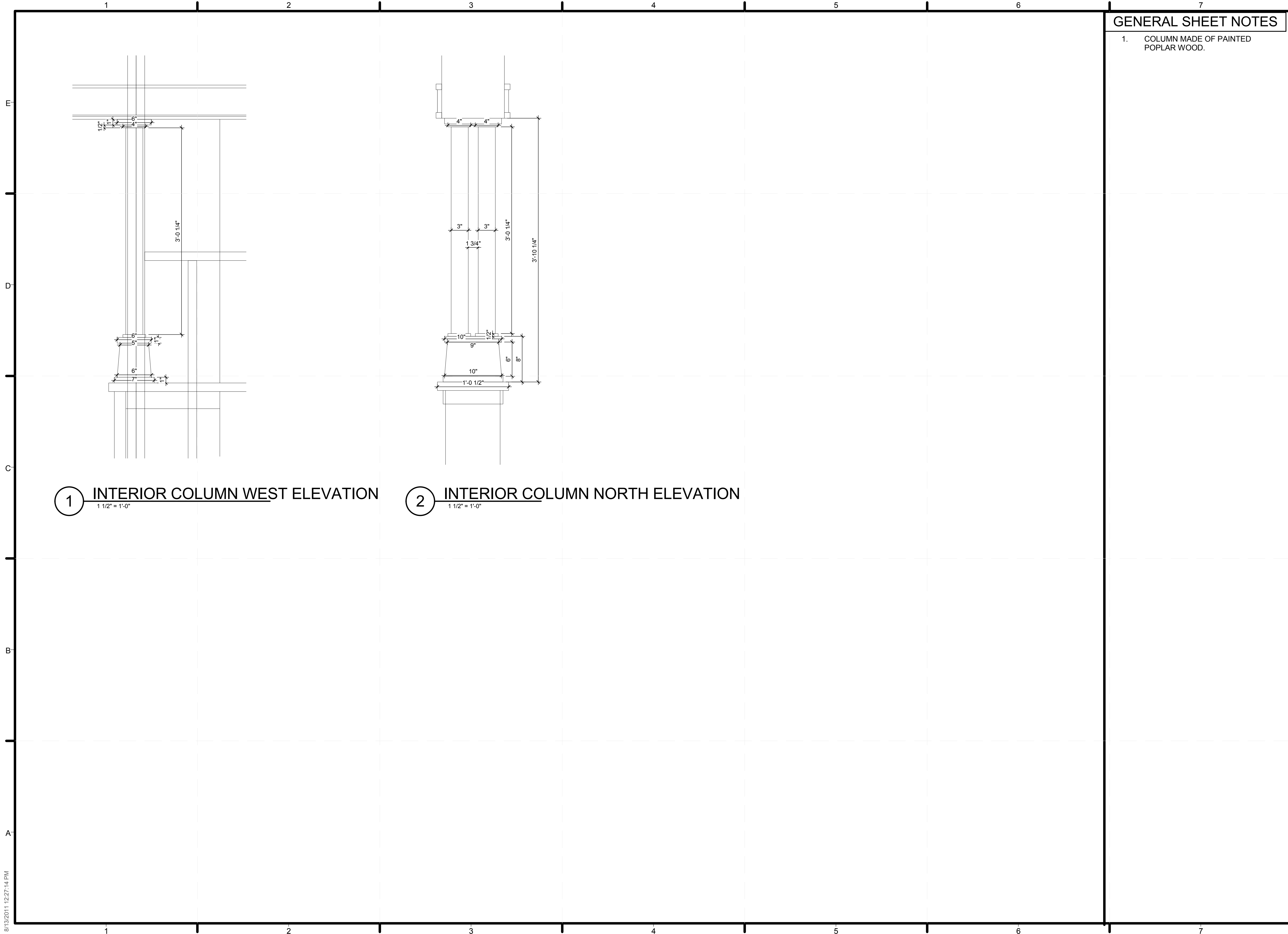
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**CASEWORK**

SHEET INDEX  
**A-607**

**TEAM TIDEWATER VIRGINIA**  
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1 INTERIOR COLUMN WEST ELEVATION  
1 1/2" = 1'-0"

2 INTERIOR COLUMN NORTH ELEVATION  
1 1/2" = 1'-0"

GENERAL SHEET NOTES

1. COLUMN MADE OF PAINTED POPLAR WOOD.

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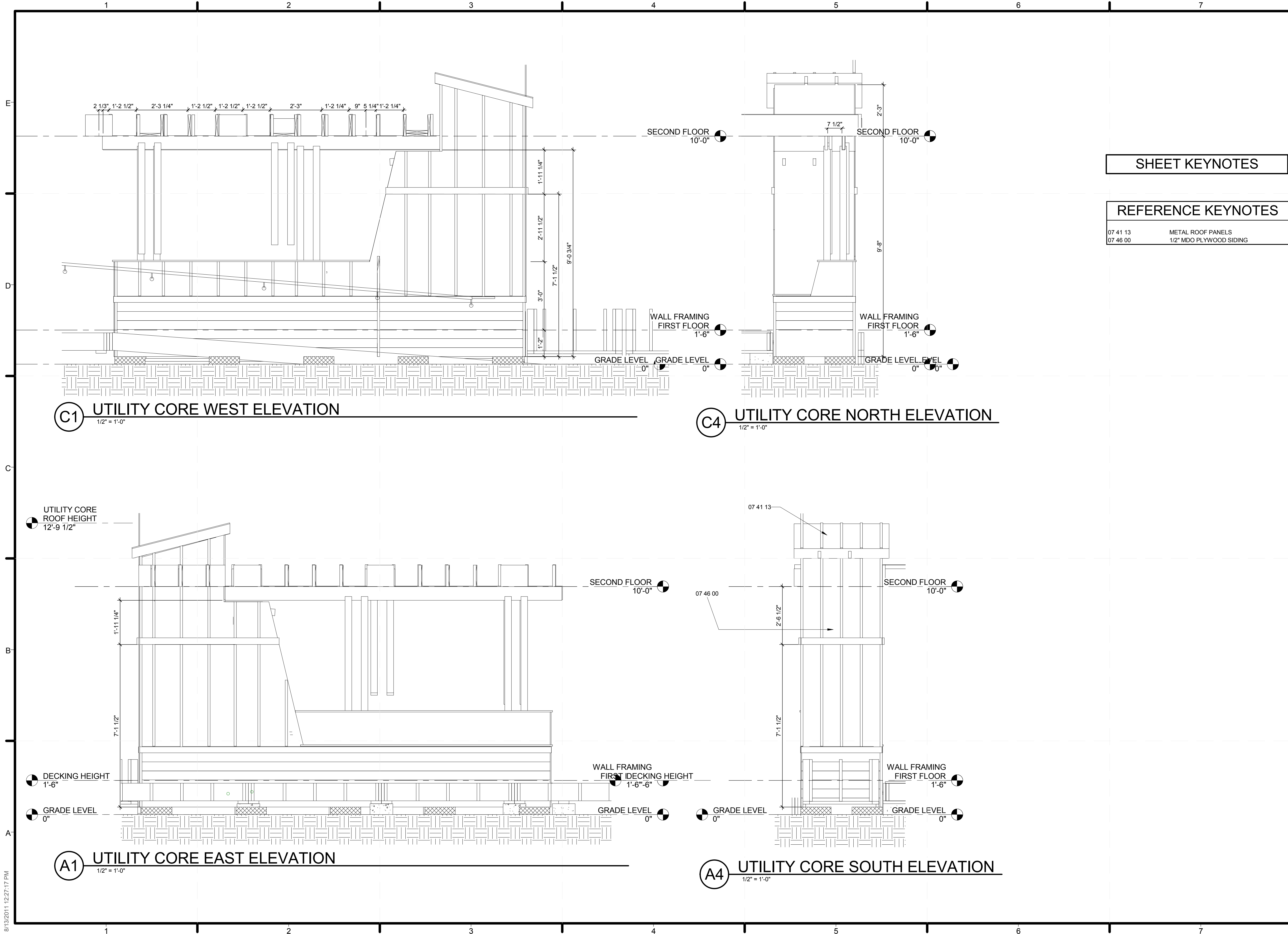
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**CASEWORK**

SHEET INDEX  
**A-608**





**SHEET KEYNOTES**

**REFERENCE KEYNOTES**

07 41 13	METAL ROOF PANELS
07 46 00	1/2" MDO PLYWOOD SIDING

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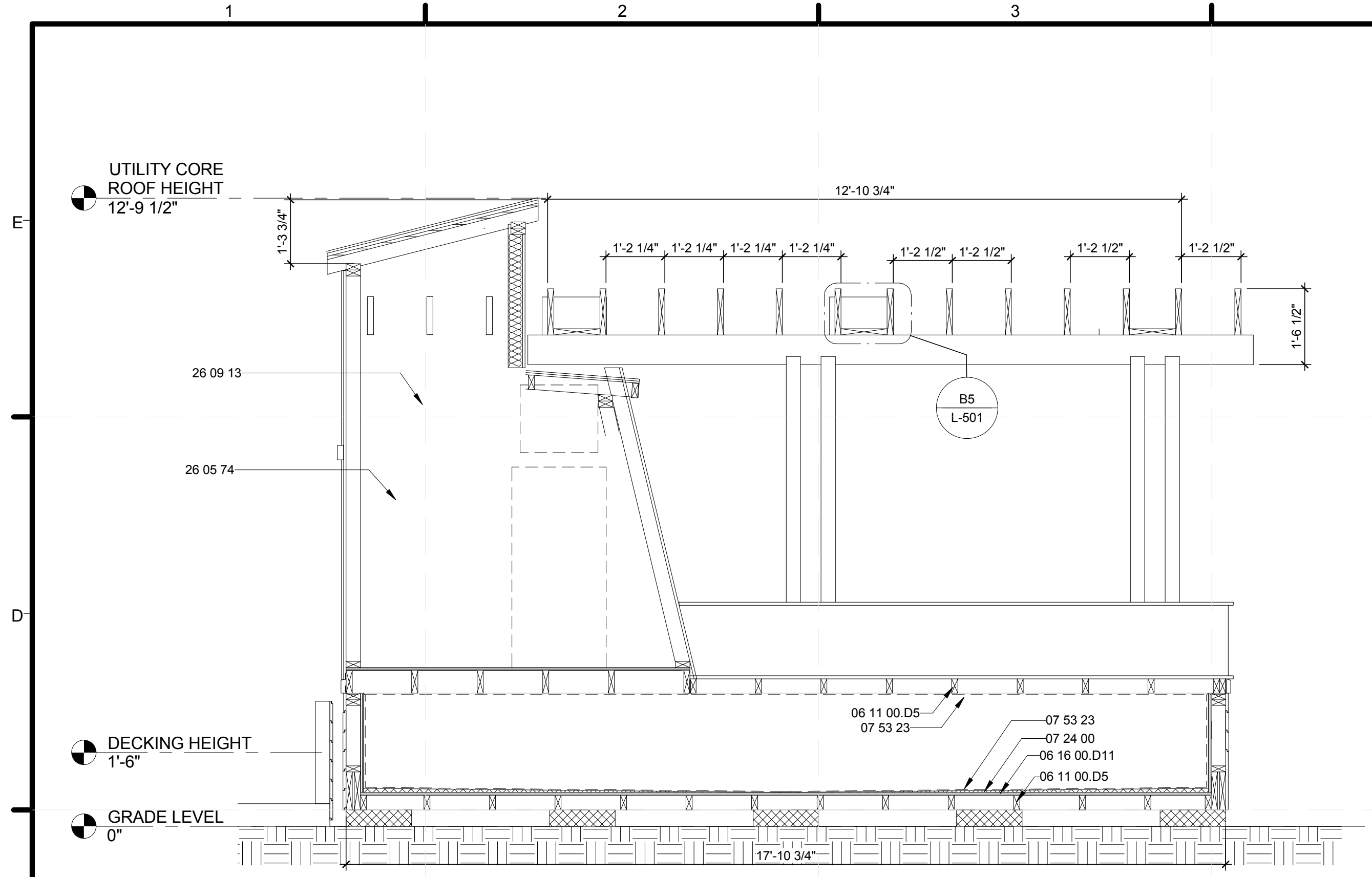
LOT NUMBER:	LOT NUMBER
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COMPONENT  
**UTILITY CORE ELEVATIONS**

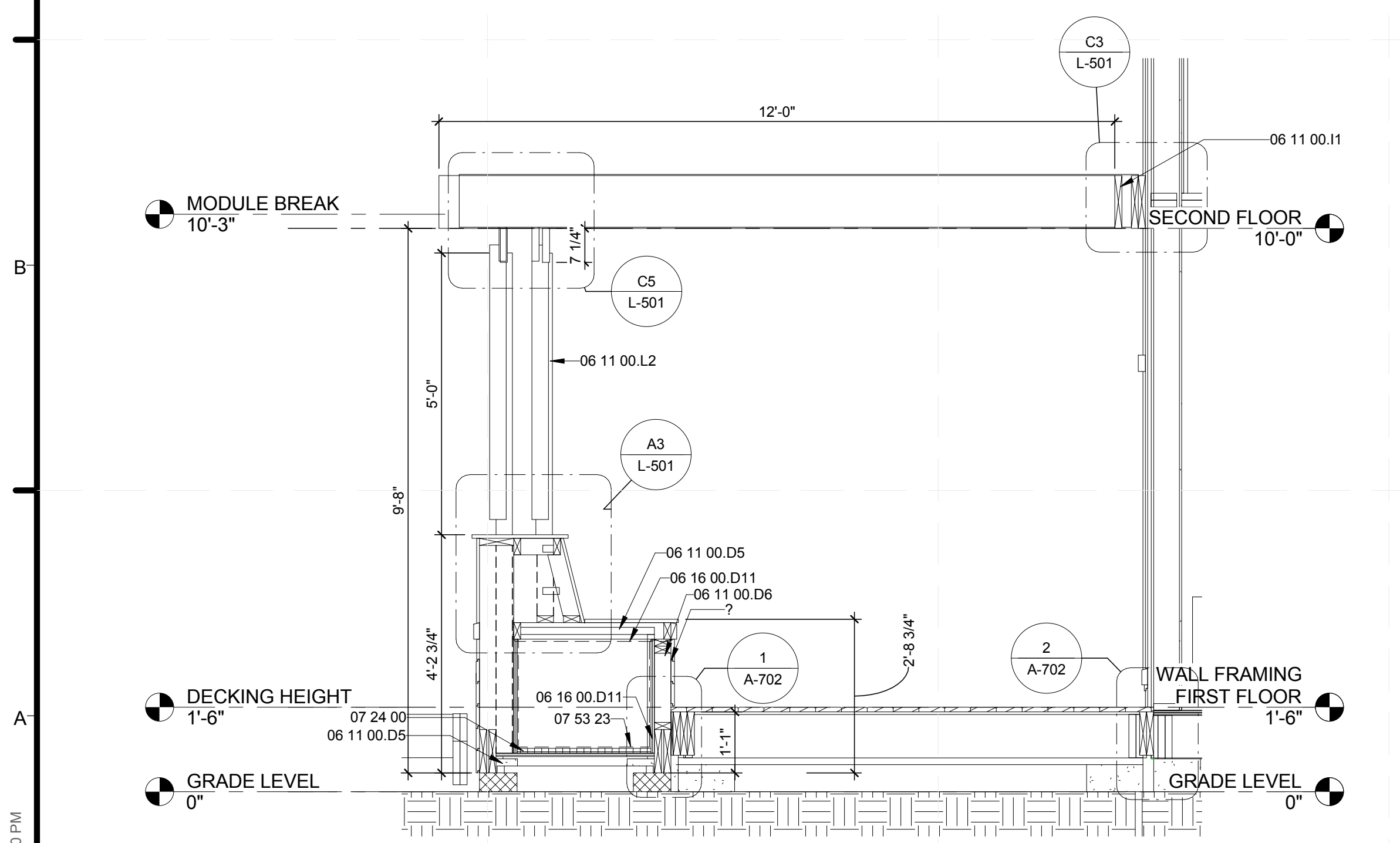
SHEET TITLE  
**UTILITY CORE ELEVATIONS**  
SHEET INDEX

**A-701**

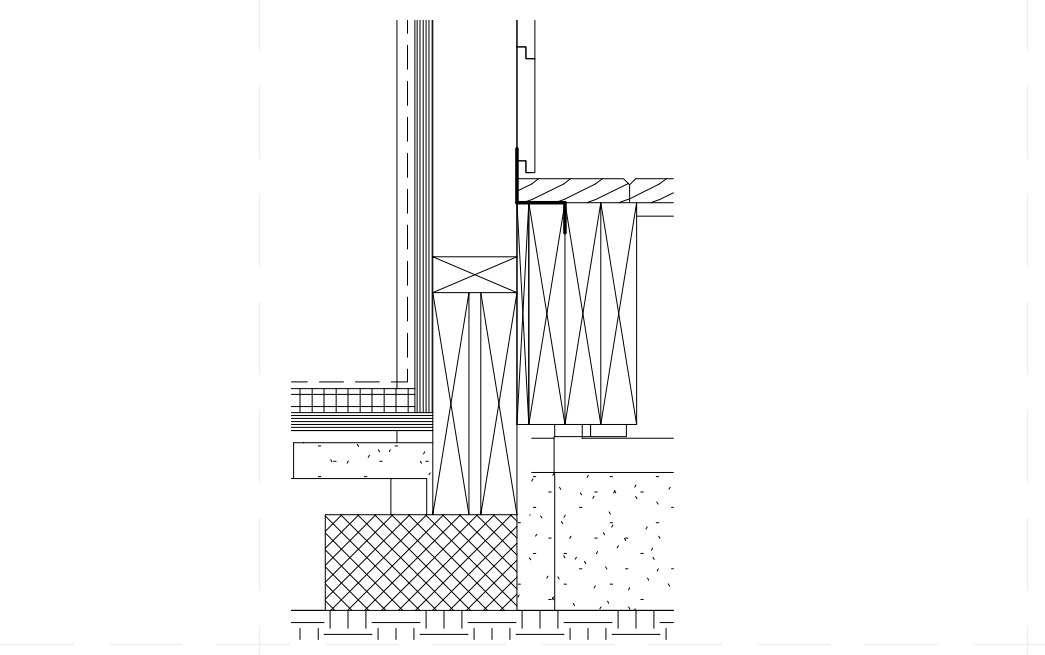
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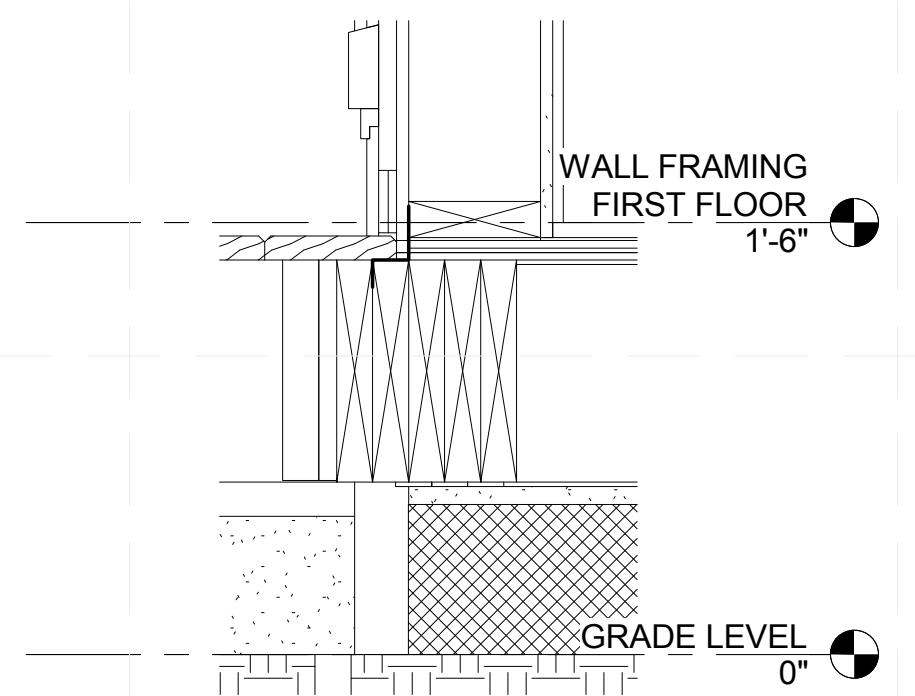
**C5** UTILITY CORE SECTION 4  
1/2" = 1'-0"



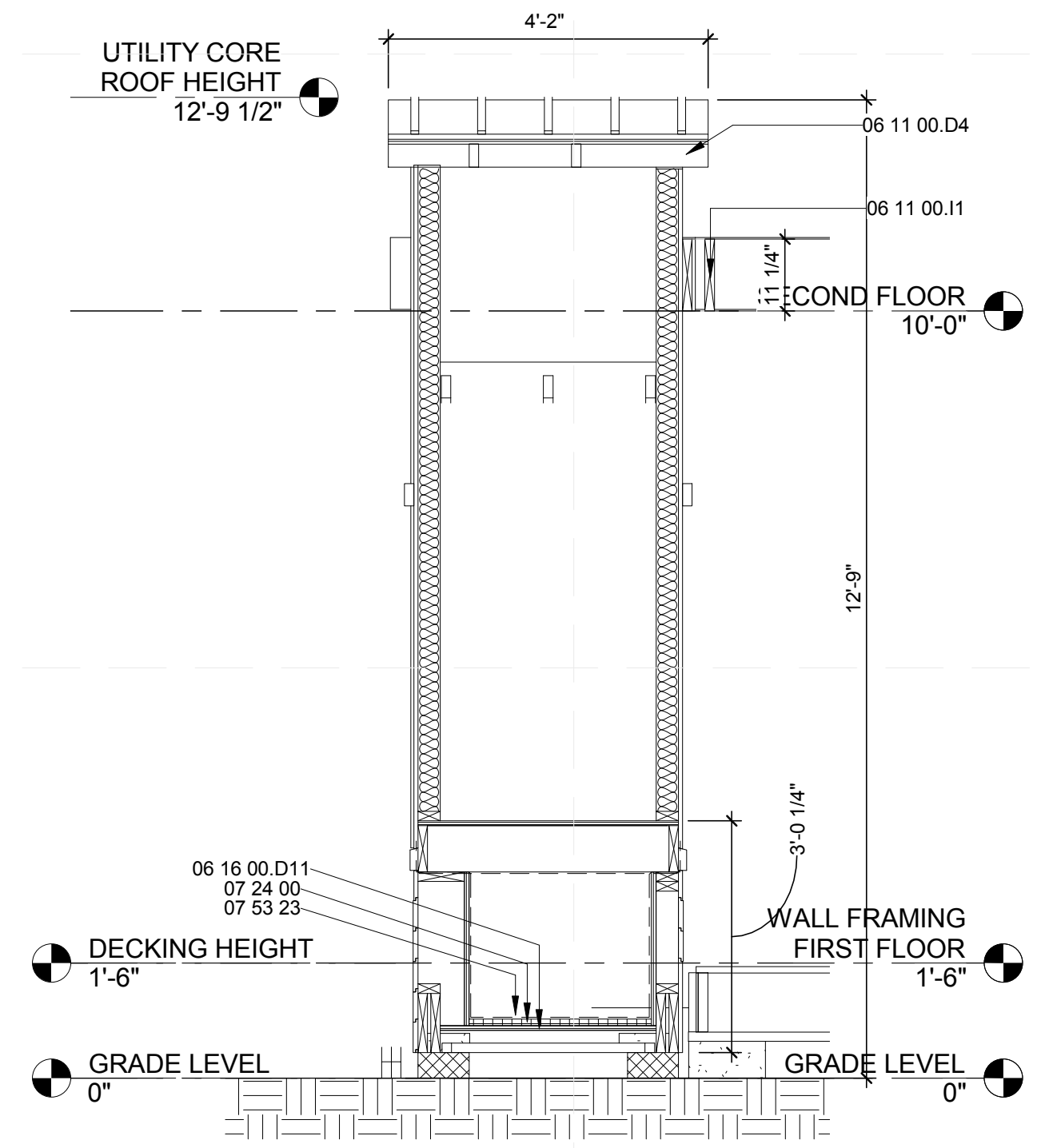
**A3** UTILITY CORE SECTION 3  
1/2" = 1'-0"



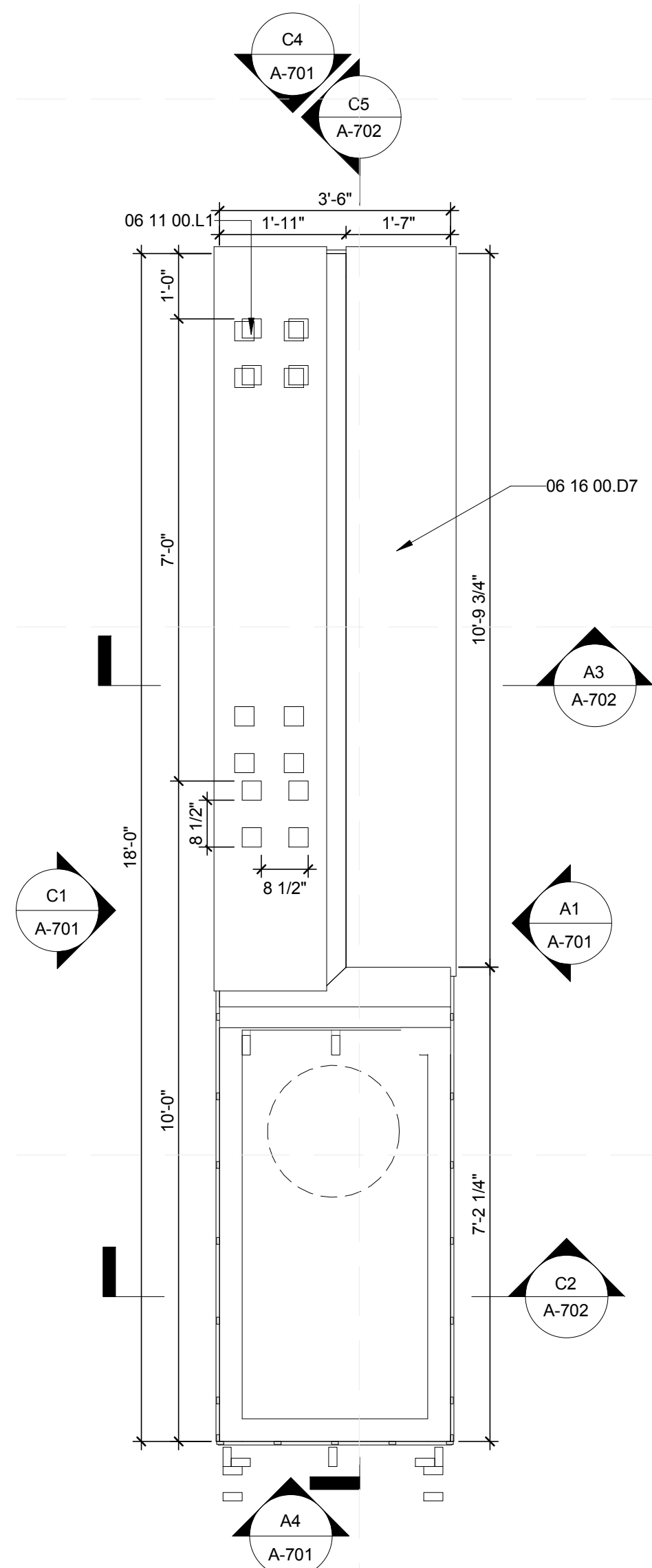
**1** DECK/CORE CONNECTION  
1 1/2" = 1'-0"



**2** HOUSE/DECKING CONNECTION -TYP.  
1 1/2" = 1'-0"



**C2** UTILITY CORE SECTION 1  
1/2" = 1'-0"



**A1** UTILITY CORE PLAN  
1/2" = 1'-0"

**GENERAL SHEET NOTES**

- UTILITY CORE AND MAIN HOUSE STRUCTURE WILL BE LOWERED ONTO A DOUBLE BOTTOM PLATE THAT IS NOT SHOWN
- 60 MIL EPDM MEMBRANE AT BASE OF UTILITY CORE MUST BE A CONTINUOUS SHEET. MAY NOT BE PENETRATED AT ANY POINT BY FASTENERS. BASE OF CORE MUST BE SLOPED AT A MINIMUM SLOPE OF 1/8" PER FOOT

**REFERENCE KEYNOTES**

06 11 00.D4	2X4 FRAMING @ 12" O.C.
06 11 00.D5	2X4 FRAMING @ 16" O.C.
06 11 00.D6	2X4 FRAMING @ 24" O.C.
06 11 00.I1	2X12
06 11 00.L1	4X4
06 11 00.L2	4X4 POST
06 16 00.D7	1/2" EXTERIOR GRADE PLYWOOD
06 16 00.D11	3/4" PLYWOOD
07 24 00	EXTERIOR INSULATION AND FINISH SYSTEMS
07 53 23	ETHYLENE-PROPYLENE-DIENE-MONOMER ROOFING
26 05 74	GRID DISCONNECT
26 09 13	ELECTRICAL POWER MONITORING AND CONTROL
48 19 16	ELECTRICAL POWER GENERATION INVERTERS

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COMPONENT  
**UTILITY CORE SECTIONS**

SHEET TITLE  
**UTILITY CORE SECTIONS**

SHEET INDEX  
**A-702**





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COMPONENT

SCHEDULES

SHEET TITLE

SCHEDULES

SHEET INDEX

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DOOR SCHEDULE

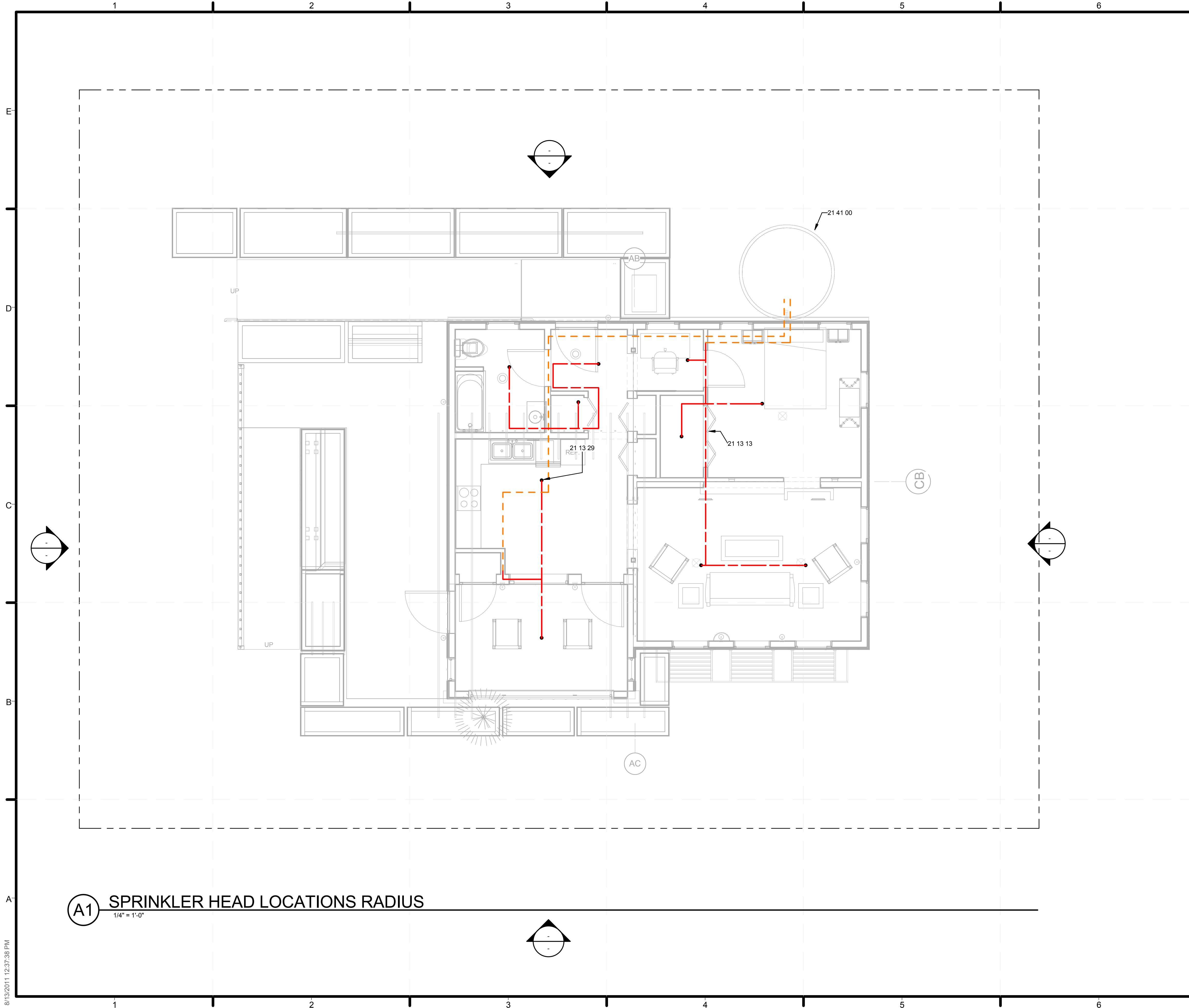
Mark	MANUFACTURER	Count	MODEL	FRAME TYPE	FIRE RATING	DETAILS			Height	Width	Finish	Comments
						HEAD	JAMB	SILL				
101	HENSELSTONE	1	N/A	VINYL	CLASS A	Z Series	Z Series	Z Series	6'-10 3/4"	3'-5 1/2"	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)	LEFT SIDE HINGE
102	HENSELSTONE	1	N/A	VINYL	CLASS A	Z Series	Z Series	Z Series	6'-10 3/4"	3'-0"	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)	LEFT SIDE HINGE
103	HENSELSTONE	1	N/A	VINYL	CLASS A	Z Series	Z Series	Z Series	6'-10 3/4"	3'-5 1/2"	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)	RIGHT SIDE HINGE
106	INTERIOR DOORS DIRECT	1	5555	WOOD	NOT-RATED				6'-9 1/8"	2'-8"	POPLAR WOOD UNFINISHED	RIGHT SIDE HINGE
107	INTERIOR DOORS DIRECT	1	5000	WOOD	NOT-RATED				6'-8 7/8"	3'-0"	POPLAR WOOD UNFINISHED	RIGHT SIDE HINGE
108	HENSELSTONE	1	N/A	VINYL	CLASS A	Z Series	Z Series	Z Series	6'-10 3/4"	3'-5 1/2"	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)	RIGHT SIDE HINGE
109	INTERIOR DOORS DIRECT	1	5000	WOOD	NOT-RATED				6'-9 1/2"	3'-0"	POPLAR WOOD UNFINISHED	RIGHT SIDE HINGE
110	INTERIOR DOORS DIRECT	1	N/A	WOOD	NOT-RATED				6'-9 3/4"	5'-0"	POPLAR WOOD UNFINISHED	(1) RIGHT & (1) LEFT HINGE
113	INTERIOR DOORS DIRECT	1	5555	WOOD	NOT-RATED				6'-9 1/8"	2'-8"	POPLAR WOOD UNFINISHED	RIGHT SIDE HINGE
114	INTERIOR DOORS DIRECT	1	5555	WOOD	NOT-RATED				6'-9 1/8"	2'-8"	POPLAR WOOD UNFINISHED	LEFT SIDE HINGE

ROOM SCHEDULE

ROOM NO	ROOM NAME	FINISH			PAINT					Perimeter	Ceiling Height	Comments
		WALL	CLG	FLOOR	N	S	E	W	CLG			
1	SUNSPACE	1/2" GYP	1/2" GYP, PAINTED	CERAMIC TILE	BENJAMIN MOORE COPLEY GRAY	BENJAMIN MOORE COPLEY GRAY	BENJAMIN MOORE COPLEY GRAY	BENJAMIN MOORE COPLEY GRAY	BENJAMIN MOORE ANTIQUE WHITE	45'-3 1/2"	8'-0"	SEE DRAWINGS FOR ADDITIONAL TRIM
2	CLOSET 1	1/2" GYP	1/2" GYP, PAINTED	CERAMIC TILE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	10'-9 1/2"	7'-0"	
3	KITCHEN	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ANTIQUE WHITE/ BIG BEND BEIGE EGGSHELL	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	49'-10 1/2"	14'-0"	SEE DRAWINGS FOR ADDITIONAL TRIM
4	BATHROOM	1/2" GYP	1/2" GYP, PAINTED	CERAMIC TILE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	35'-9"	8'-0"	SEE DRAWING FOR ADDITIONAL TRIM
5	LAUNDRY	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	11'-4"	8'-0"	
6	FOYER	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	29'-1"	8'-0"	SEE DRAWINGS FOR ADDITIONAL TRIM
7	CLOSET 2	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	9'-11 1/2"	6'-10"	
8	CLOSET	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	9'-11 1/2"	6'-10"	
9	CLOSET 4	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	20'-3 1/2"	8'-0"	
10	WORKSPACE	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	20'-8"	8'-0"	SEE DRAWINGS FOR ADDITIONAL TRIM
11	BEDROOM	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ANTIQUE WHITE/ BIG BEND BEIGE EGGSHELL	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	48'-11"	8'-0"	SEE DRAWING FOR ADDITIONAL TRIM
12	LIVING ROOM	1/2" GYP	1/2" GYP, PAINTED	BAMBOO SLATS	BENJAMIN MOORE ANTIQUE WHITE/ BIG BEND BEIGE EGGSHELL	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE/ADOBE BEIGE	BENJAMIN MOORE ANTIQUE WHITE	61'-2 1/2"	8'-0"	SEE DRAWING FOR ADDITIONAL TRIM

WINDOW SCHEDULE

MARK	ROUGH OPENING		TYPE	MANUFACTURER	MODEL	MATERIAL	FINISH	DETAIL			GLAZING		HEAD HEIGHT	COMMENTS	Count
	WIDTH	HEIGHT						HEAD	JAMB	SILL	THICKNESS	TYPE			
201	11'-7"	7'-5 1/2"	MOTORIZED TWO PART WINDOW	HENSELSTONE		VINYL	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)				TRIPLE		7'-4"		1
202	1'-11"	7'-1"	SMALL MOTORIZED TWO PART WINDOW	HENSELSTONE		VINYL	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)				TRIPLE		7'-1"		2
203	4'-10"	3'-6"	MOTORIZED SLIDING WINDOW	HENSELSTONE		VINYL	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)				TRIPLE		6'-10 3/4"		1
204	2'-9"	2'-10 1/8"	OPERABLE	HENSELSTONE		VINYL	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)				TRIPLE		6'-9 3/4"		4
205	3'-0"	6'-1"	OPERABLE	HENSELSTONE		VINYL	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)				TRIPLE		6'-9 5/8"		6
206	12'-1"	2'-7"	CLEARSTORY WINDOW	HENSELSTONE		VINYL	49122 ANTHRAXITGRAUMATT (AHLNICH RAL 7001)				TRIPLE		3'-3 7/8"		1



**GENERAL SHEET NOTES**

1. WATER SUPPLY FOR FIRE SUPPRESSION IS THE CISTERN
2. THE WATER LEVEL IN THE CISTERN WILL NOT BE ABLE TO FALL BELOW 250 GAL

**REFERENCE KEYNOTES**

21 13 13	WET-PIPE SPRINKLER SYSTEMS
21 13 29	WATER SPRAY FIXED SYSTEMS
21 41 00	STORAGE TANKS FOR FIRE-SUPPRESSION WATER

**LEGEND**

- FIRE SUPPRESSION LINES IN CEILING
- FIRE SUPPRESSION LINES UNDER HOUSE

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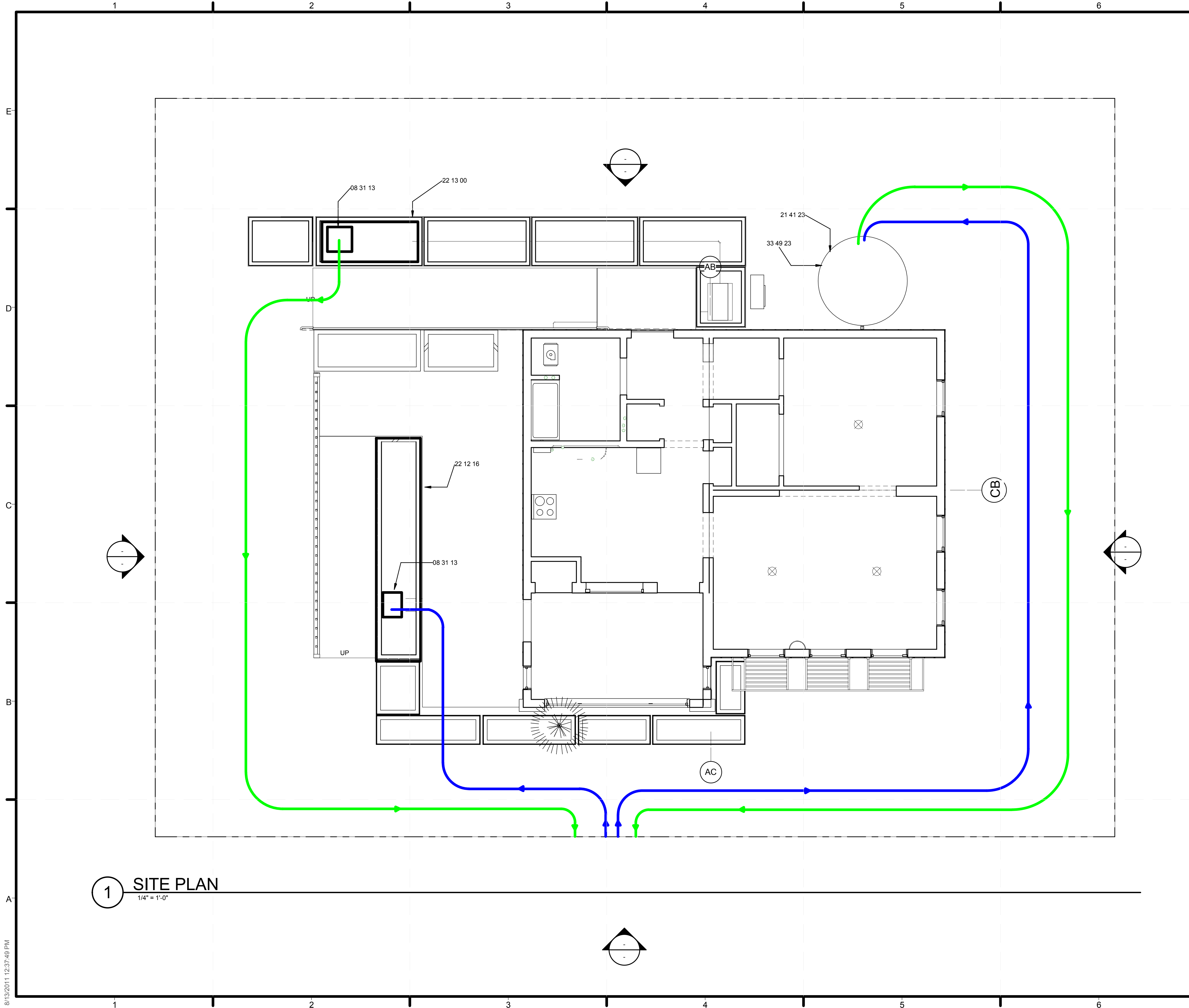
SHEET TITLE  
**FIRE SUPPRESSION SPRINKLERS**

SHEET INDEX

**F-101**

8/13/2011 12:37:38 PM





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

GENERAL SHEET NOTES

1. THE CISTERN WILL DOUBLE AS THE FIRE SUPPRESSION SUPPLY. WATER LEVELS WILL NOT BE ABLE TO DROP BELOW 250 GAL
2. THERE ARE TWO WATER DELIVERY POINTS: THE SUPPLY TANK AND THE FIRE SUPPRESSION TANK/ CISTERN
3. THERE ARE TWO WATER REMOVAL POINTS: THE SANITARY RETURN TANK AND THE FIRE SUPPRESSION TANK/ CISTERN
4. THE CISTERN WILL REQUIRE 250 GAL. TO BE FILLED FIRST AND REMOVED LAST.
5. THE SUPPLY TANK WILL REQUIRE 515 GAL. TO BE FILLED SECOND.
6. THE RETURN TANK WILL BE EMPTIED FIRST OF 515 GALS
7. EACH TANK WILL HAVE A 5" DIAMETER OPENING AND OVER 12" OF CLEARANCE ABOVE FOR ACCESS.

REFERENCE KEYNOTES

08 31 13	ACCESS DOORS AND FRAMES
21 41 23	GROUND SUCTION STORAGE TANKS FOR FIRE-SUPPRESSION WATER
22 12 16	FACILITY ELEVATED, POTABLE-WATER STORAGE TANKS
22 13 00	FACILITY SANITARY SEWERAGE
33 49 23	STORM DRAINAGE WATER RETENTION STRUCTURES

LEGEND

- SUPPLY HOSE
- REMOVAL HOSE

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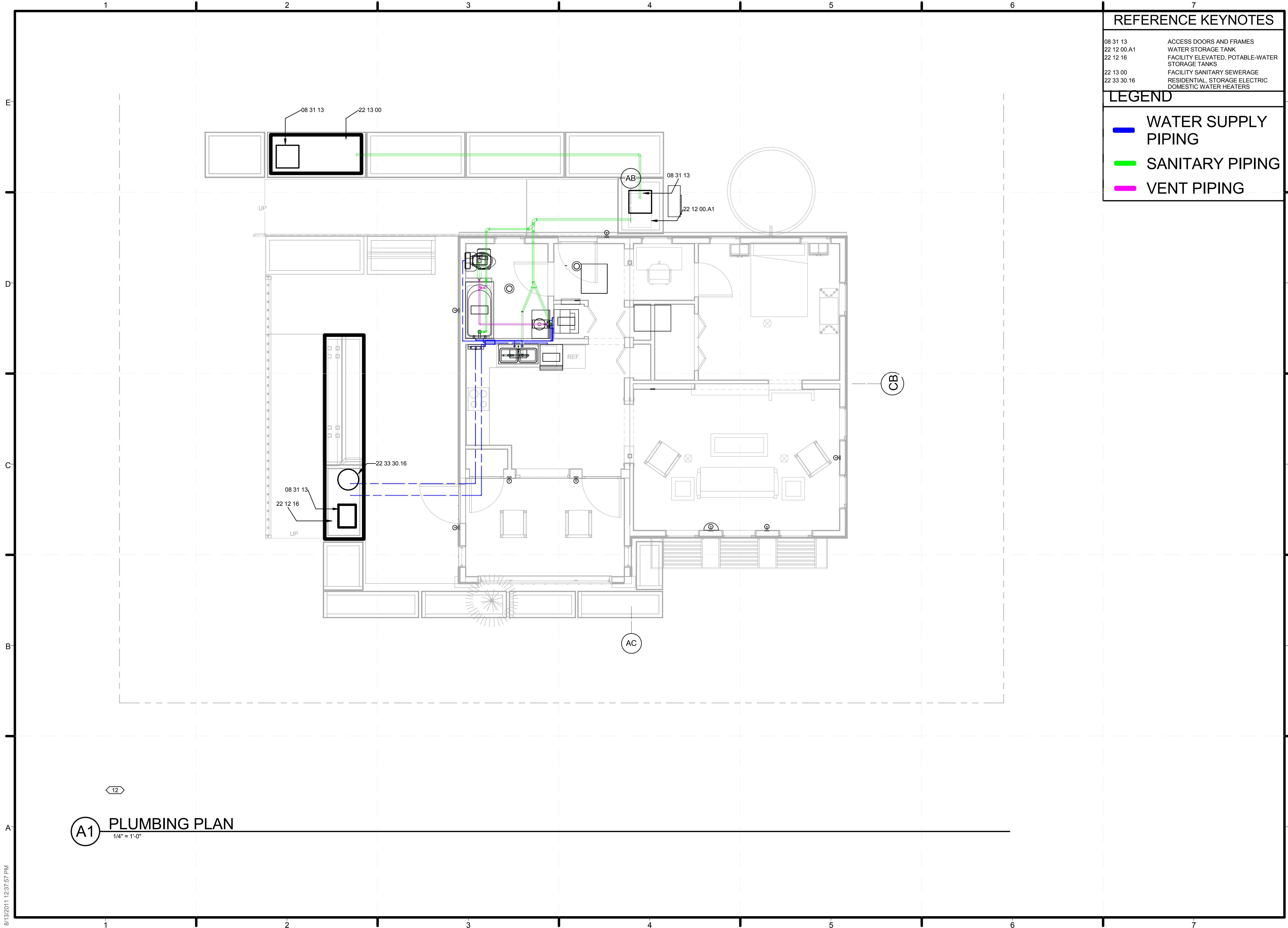
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SHEET TITLE  
**DELIVERY AND REMOVAL SCHEMATIC**  
SHEET INDEX

**P-101**

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**REFERENCE KEYNOTES**

08 31 13	ACCESS DOORS AND FRAMES
22 12 00.A1	WATER STORAGE TANK
22 12 16	FACILITY ELEVATED, POTABLE-WATER STORAGE TANKS
22 13 00	FACILITY SANITARY SEWERAGE
22 33 30.16	RESIDENTIAL, STORAGE ELECTRIC DOMESTIC WATER HEATERS

**LEGEND**

- WATER SUPPLY PIPING
- SANITARY PIPING
- VENT PIPING

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SHEET TITLE  
**PLUMBING SCHEMATIC**

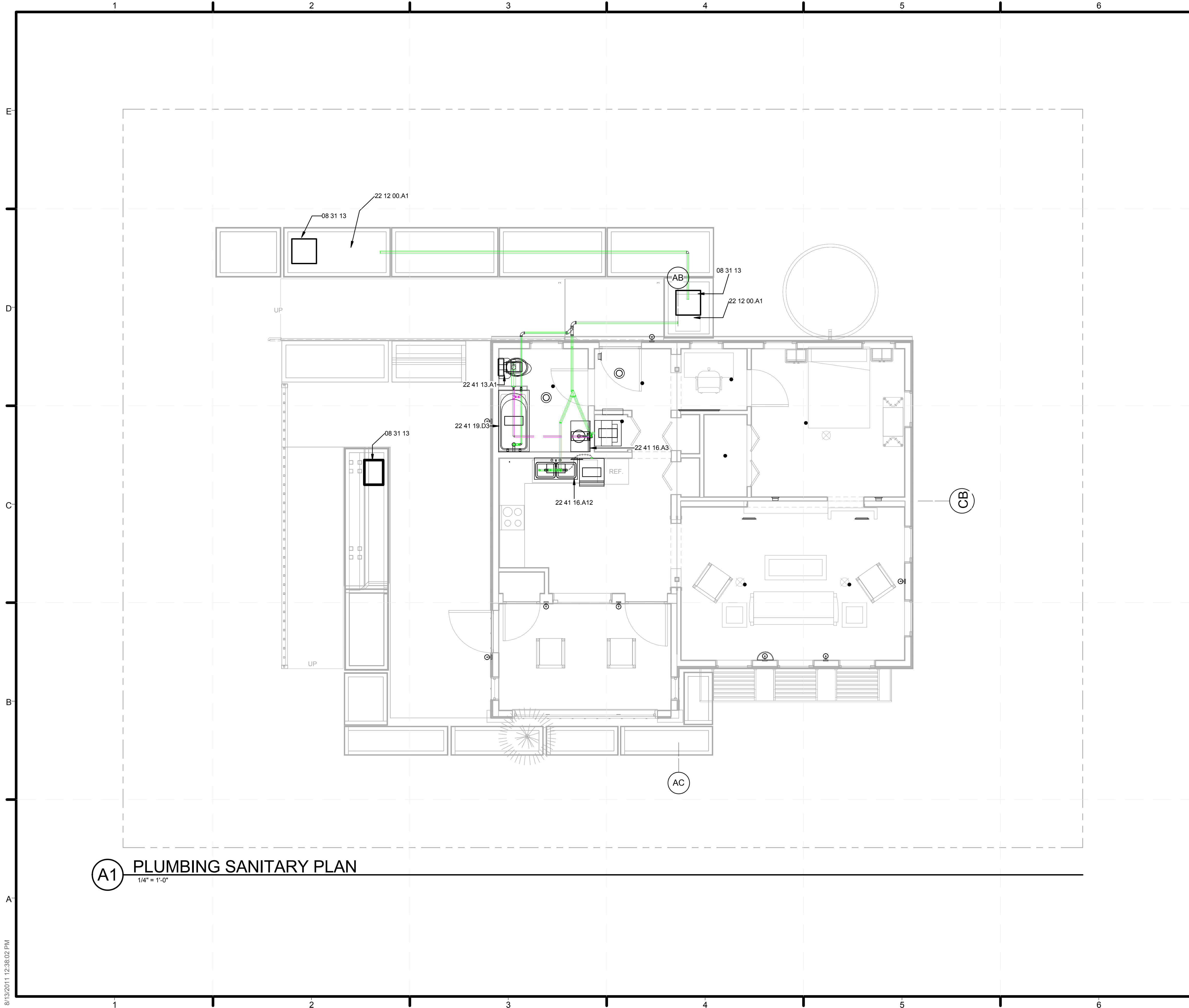
SHEET INDEX

**P-102**

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

8/13/2011 12:37:57 PM





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

**GENERAL SHEET NOTES**

1. ALL WASTEWATER WILL FLOW DIRECTLY TO RETURN TANK FOR COMPETITION

**REFERENCE KEYNOTES**

08 31 13	ACCESS DOORS AND FRAMES
22 12 00.A1	WATER STORAGE TANK
22 41 13.A1	WATER CLOSET
22 41 16.A3	LAVATORY
22 41 16.A12	S.S. TWO COMPARTMENT SINK
22 41 19.D3	PRE-FABRICATED TUB AND SHOWER

**LEGEND**

- RETURN PIPING
- VENT PIPING

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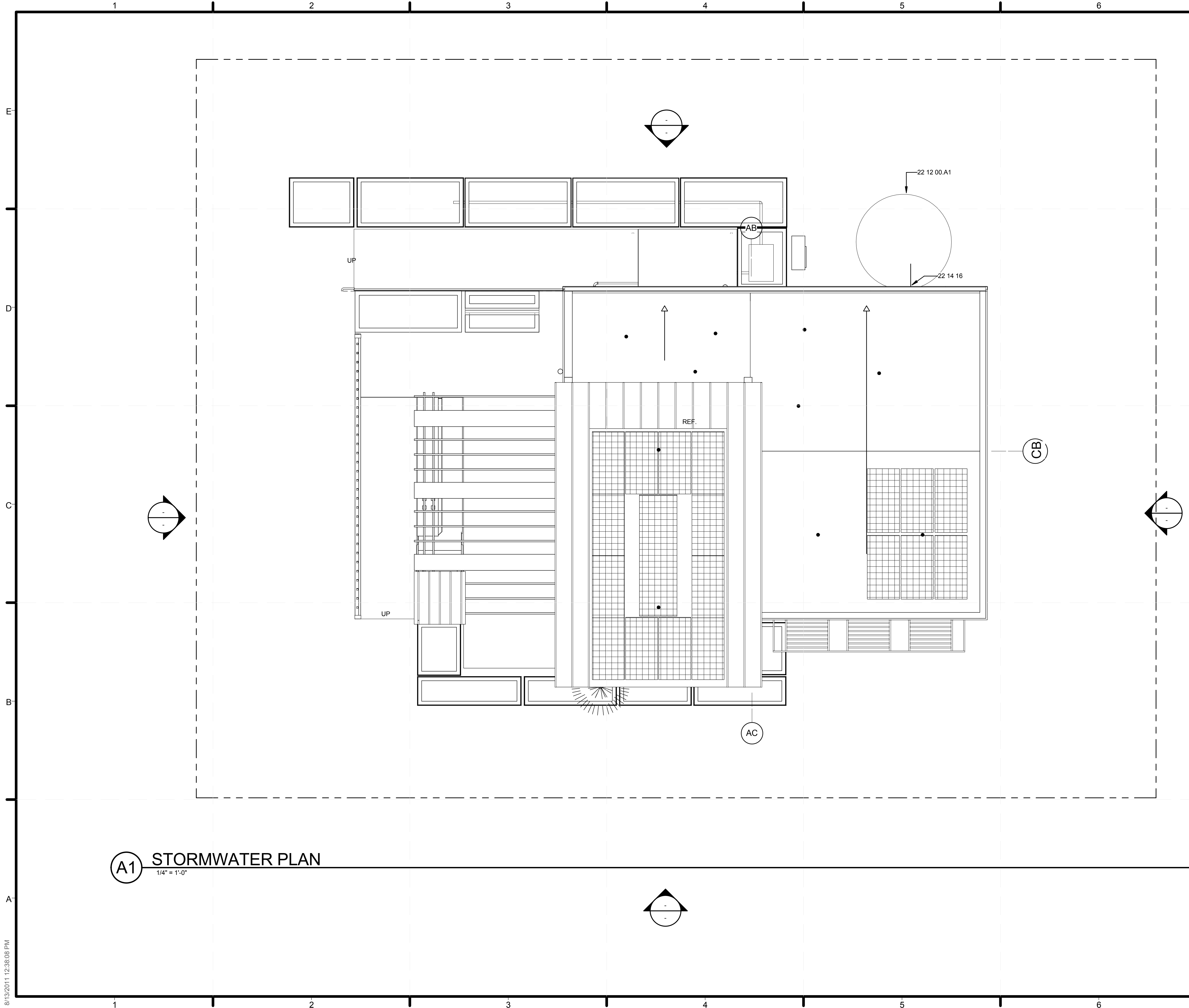
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SHEET TITLE  
**DOMESTIC RETURN**

SHEET INDEX

**P-103**

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**GENERAL SHEET NOTES**

1. ALL RAINWATER FROM FLAT ROOF TO DRAIN TO NORTH WALL OF BUILDING
2. GUTTER ALONG NORTH WALL OF BUILDING FUNNELS WATER TOWARDS RAINWATER LEADER DRANING TO CISTERN

**REFERENCE KEYNOTES**

22 12 00.A1 WATER STORAGE TANK  
 22 14 16 RAINWATER LEADERS

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SHEET TITLE  
**STORMWATER SYSTEM**

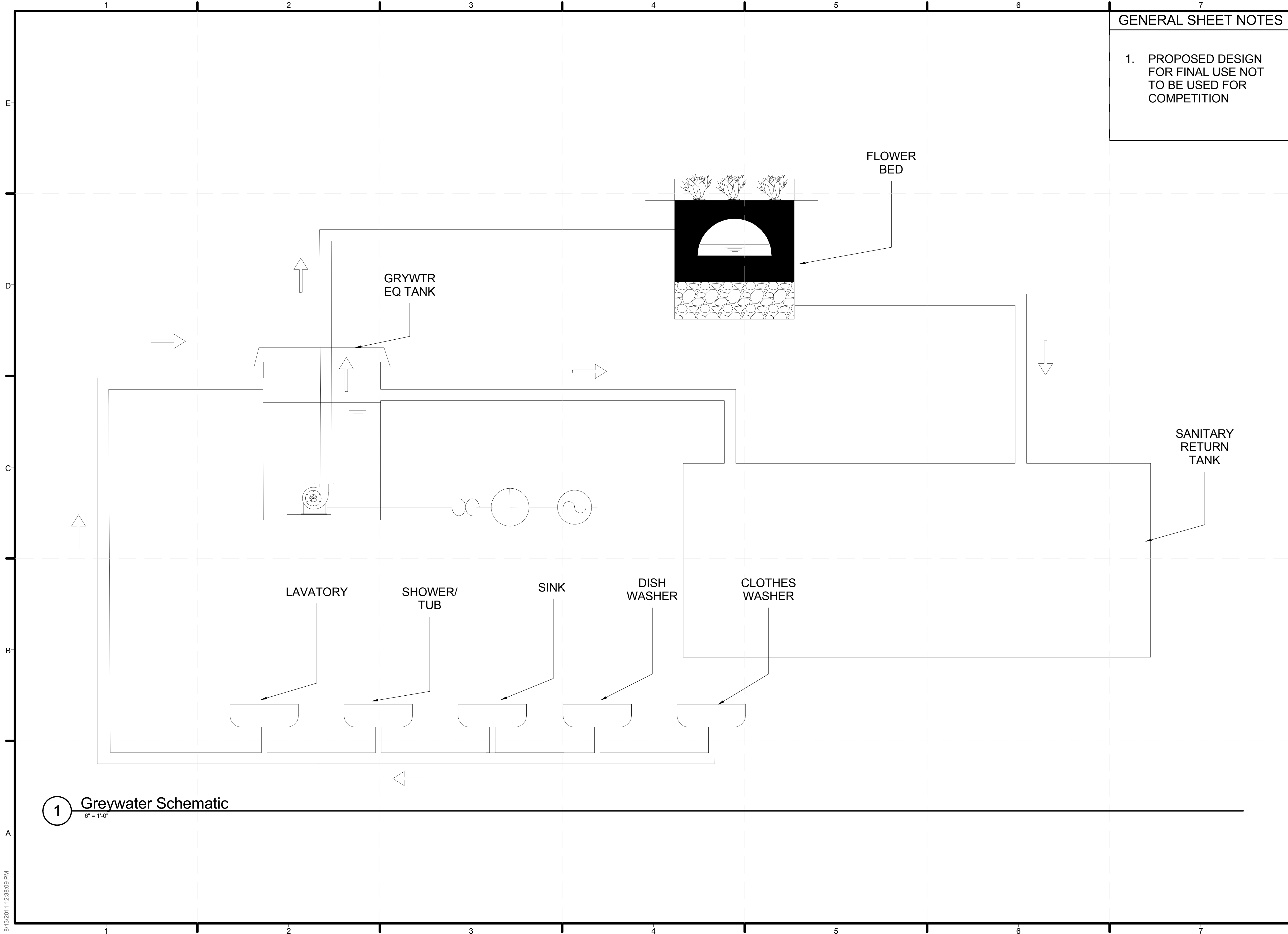
SHEET INDEX

**P-104**

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

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**GENERAL SHEET NOTES**

1. PROPOSED DESIGN FOR FINAL USE NOT TO BE USED FOR COMPETITION



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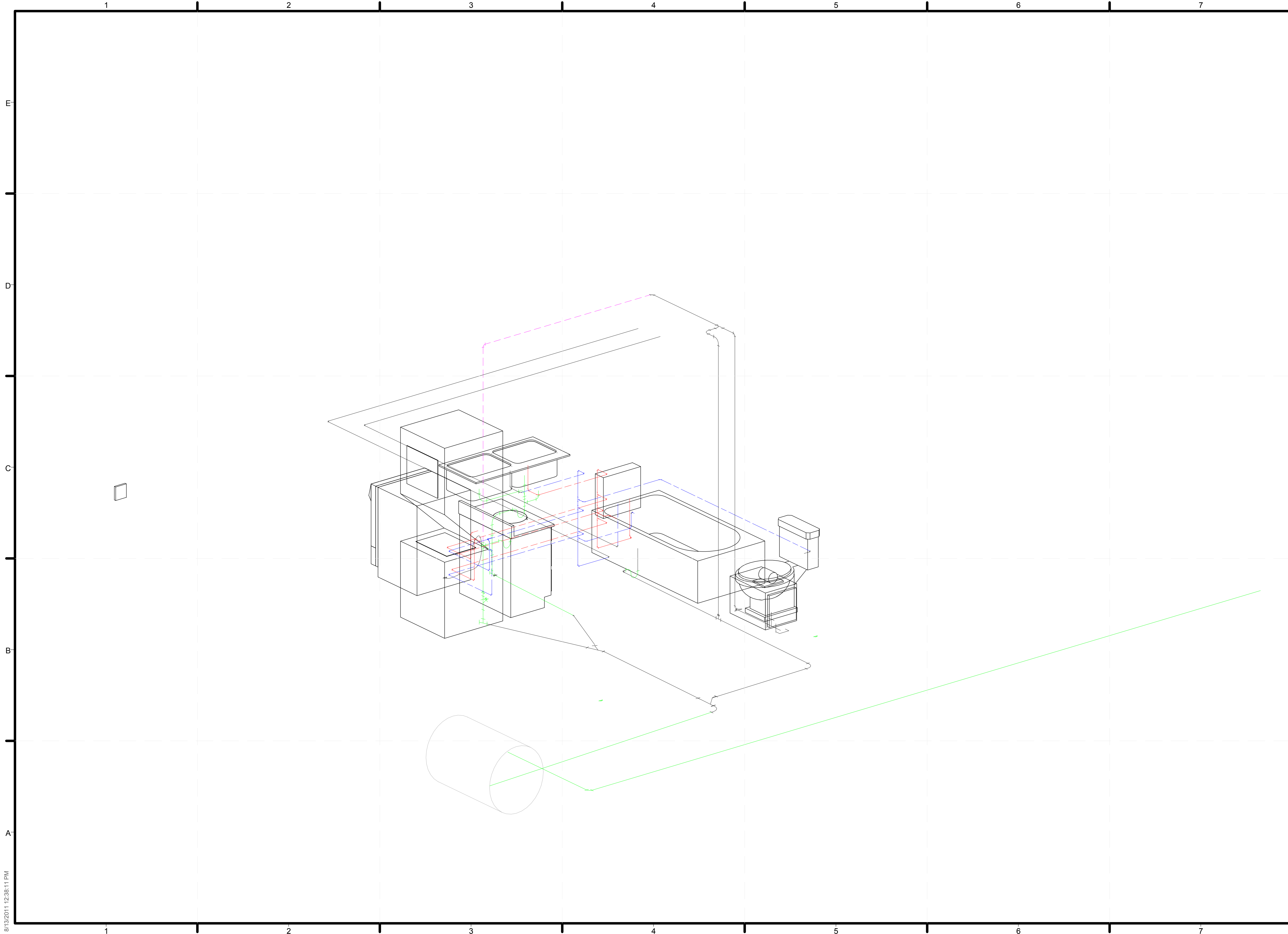
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SHEET TITLE  
**GREYWATER SCHEMATIC**

SHEET INDEX  
**P-601**

1 Greywater Schematic  
6" = 1'-0"

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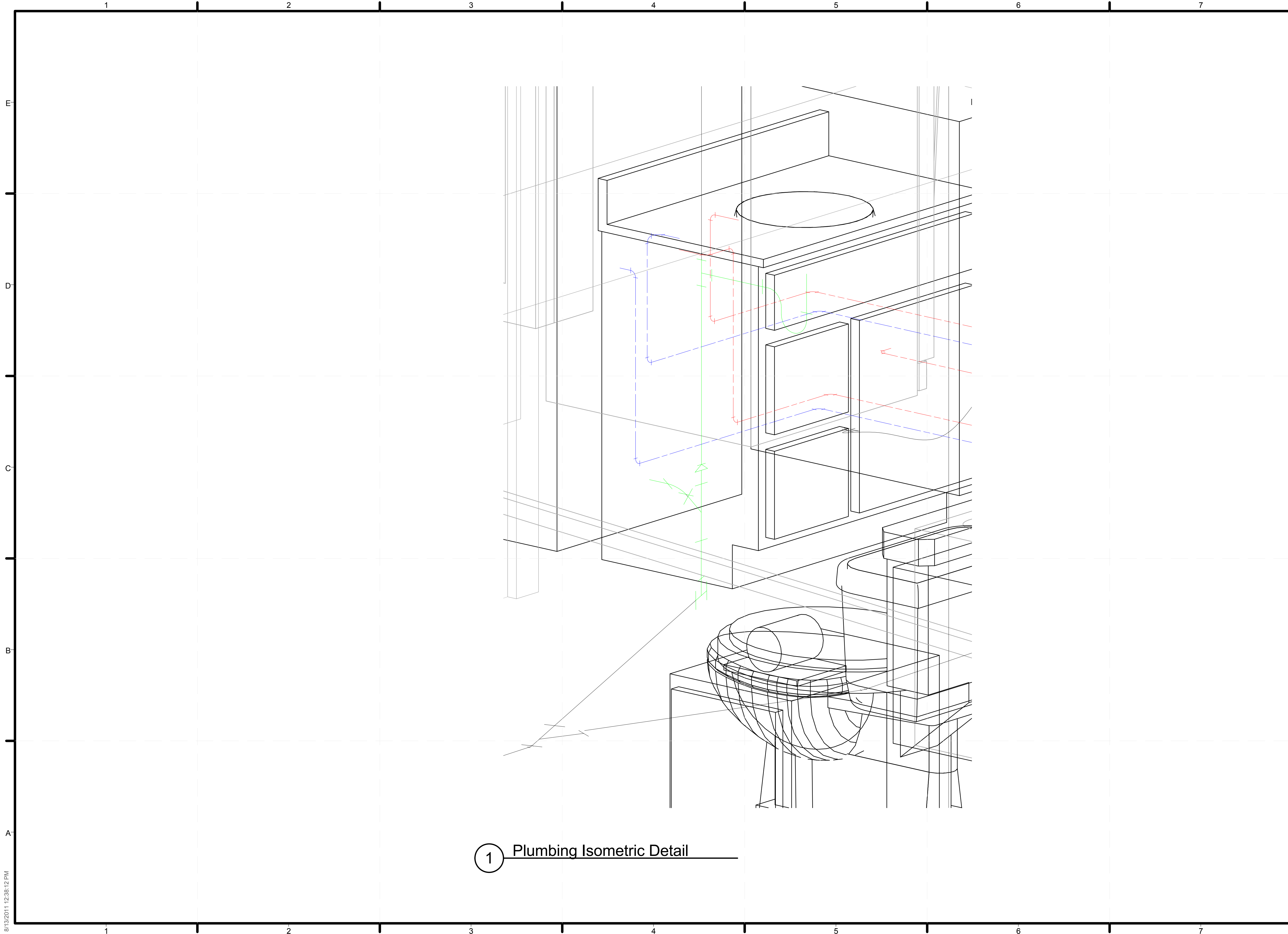
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SHEET TITLE  
**PLUMBING  
ISOMETRIC PRIMARY**

SHEET INDEX

**P-901**



1 Plumbing Isometric Detail

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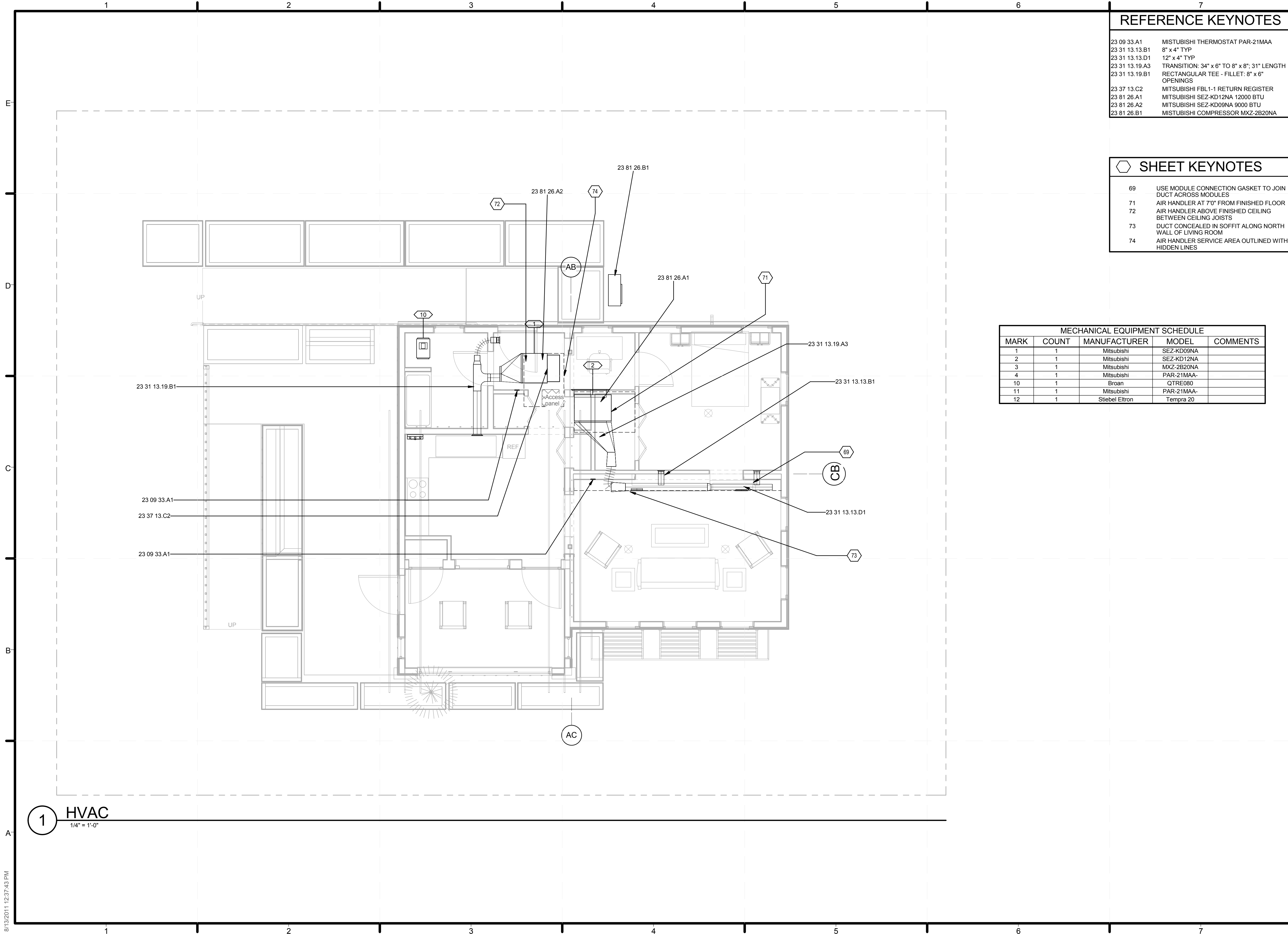
SHEET TITLE  
**PLUMBING ISOMETRIC DETAIL**

SHEET INDEX

**P-902**

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**REFERENCE KEYNOTES**

23 09 33.A1	MITSUBISHI THERMOSTAT PAR-21MAA
23 31 13.13.B1	8" x 4" TYP
23 31 13.13.D1	12" x 4" TYP
23 31 13.19.A3	TRANSITION: 34" x 6" TO 8" x 8"; 31" LENGTH
23 31 13.19.B1	RECTANGULAR TEE - FILLET: 8" x 6" OPENINGS
23 37 13.C2	MITSUBISHI FBL-1-1 RETURN REGISTER
23 81 26.A1	MITSUBISHI SEZ-KD12NA 12000 BTU
23 81 26.A2	MITSUBISHI SEZ-KD09NA 9000 BTU
23 81 26.B1	MITSUBISHI COMPRESSOR MXZ-2B20NA

**SHEET KEYNOTES**

69	USE MODULE CONNECTION GASKET TO JOIN DUCT ACROSS MODULES
71	AIR HANDLER AT 70" FROM FINISHED FLOOR
72	AIR HANDLER ABOVE FINISHED CEILING BETWEEN CEILING JOISTS
73	DUCT CONCEALED IN SOFFIT ALONG NORTH WALL OF LIVING ROOM
74	AIR HANDLER SERVICE AREA OUTLINED WITH HIDDEN LINES

MECHANICAL EQUIPMENT SCHEDULE				
MARK	COUNT	MANUFACTURER	MODEL	COMMENTS
1	1	Mitsubishi	SEZ-KD09NA	
2	1	Mitsubishi	SEZ-KD12NA	
3	1	Mitsubishi	MXZ-2B20NA	
4	1	Mitsubishi	PAR-21MAA-	
10	1	Broan	QTRE080	
11	1	Mitsubishi	PAR-21MAA-	
12	1	Stiebel Eltron	Tempra 20	

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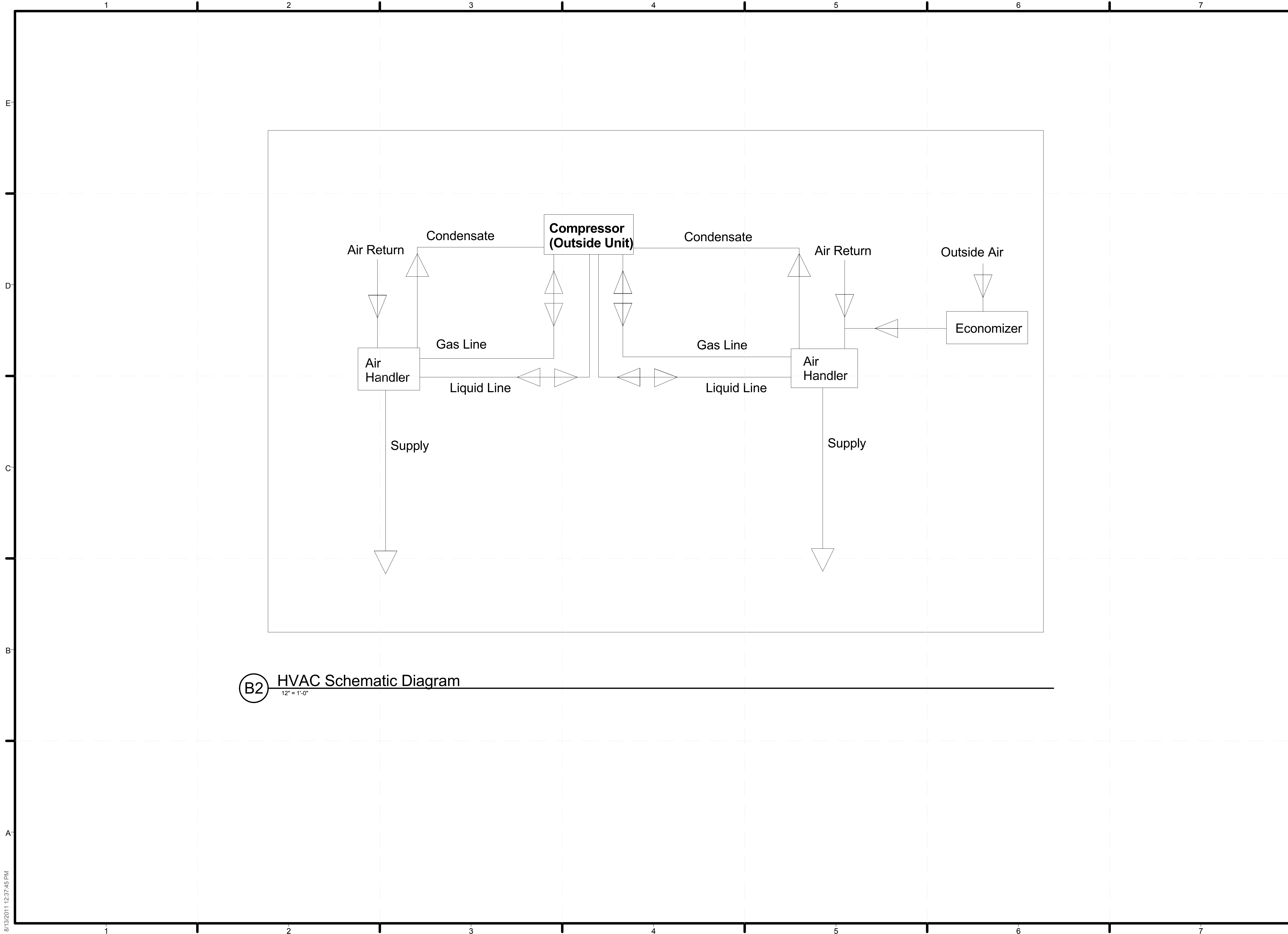
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SHEET TITLE  
**HVAC EQUIPMENT AND DISTRIBUTION PLAN**  
SHEET INDEX

**M-101**

8/13/2011 12:37:43 PM



**B2** HVAC Schematic Diagram  
12" = 1'-0"

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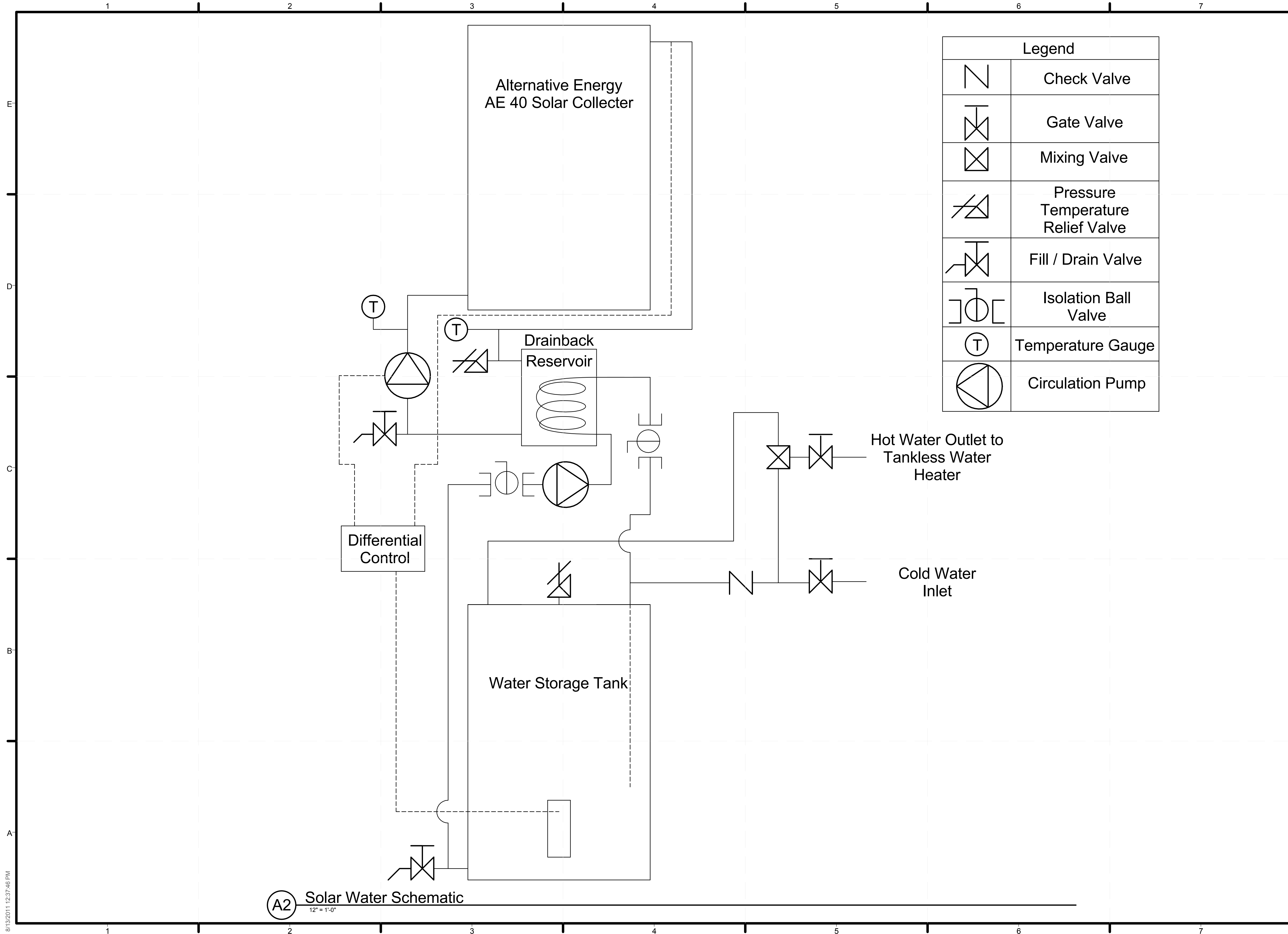
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SHEET TITLE  
**HVAC DIAGRAMS**

SHEET INDEX

**M-602**

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Legend	
	Check Valve
	Gate Valve
	Mixing Valve
	Pressure Temperature Relief Valve
	Fill / Drain Valve
	Isolation Ball Valve
	Temperature Gauge
	Circulation Pump

(A2) Solar Water Schematic  
12" = 1'-0"

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**SOLAR WATER DIAGRAMS**

SHEET INDEX

**M-603**

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# PANEL BOX CIRCUIT SCHEDULE

*WIRE WITH GROUND ALL CIRCUITS							
BREAKER SPACE	CRT #	AMP / WIRE	REMARKS	REMARKS	AMP / WIRE	CRT #	BREAKER SPACE
1	26	60 AMP 8-2 W/G	220V ELEC. WATER HTR	240V ELEC. DRYER	30 AMP 10-3 W/G	22	2
3							4
5							6
7	30	60 AMP 8-2 W/G	220V ELEC. WATER HTR	CLOTHES WASHER	20 AMP 12-2 W/G	24	8
9	16	50 AMP 6-3 W/G	220V ELECT. RANGE	MICROWAVE	20 AMP 12-2 W/G	19	10
11				BATH RECP - GFI	20 AMP 12-2 W/G	3	12
13	25	15 AMP 12-3 W/G	HVAC COMPRESSOR	KITCH. C/TOP - GFI	20 AMP 12-2 W/G	9	14
15				MOTORS	20 AMP 12-2 W/G	6	16
17	10	15 AMP 12-3 W/G	SPARE	REFRIG/APPLIANCE	20 AMP 12-2 W/G	7	18
19				LIVING ROOM LIGHTS	20 AMP 12-2 W/G	37	20
21	29	15 AMP 12-2 W/G	WATER SUPPLY PUMP	LIV ROOM RECP AFCI	20 AMP 12-2 W/G	1	22
23	12	15 AMP 12-2 W/G	UTILITY CORE	KITCH. C/TOP - GFI	20 AMP 12-2 W/G	8	24
25	23	15 AMP 12-2 W/G	FIRE PUMP	EXTERIOR RECP - GFI	15 AMP 14-2 W/G	13	26
27	14	15 AMP 12-2 W/G	GREY/RAIN PUMP	BATH LIGHTS AFCI	15 AMP 14-2 W/G	5	28
29	33	15 AMP 12-3 W/G	HALLWAY LIGHT	KITCHEN LIGHTS	15 AMP 14-2 W/G	5	30
31				SUNROOM AFCI	15 AMP 14-2 W/G	2	32
33	18	20 AMP 12-2 W/G	DISHWASHER	BEDROOM - AFCI	15 AMP 14-2 W/G	11	34
35				SMOKE DETECTOR	15 AMP 14-2 W/G	4	36
37				SURGE PROTECTOR	AC SURGE	34	38
39							40
41		15 AMP 14-2 W/G	GT-2000 INVERTER	GT-3000 INVERTER	20 AMP 12-2 W/G		42

\*NOTE: WHEN ONE SMOKE DETECTOR IS ACTIVATED, ALL DETECTORS ARE ACTIVATED.

⚡ SINGLE REMOTE SWITCH	☎ TELEPHONE JACK	⚡ DUPLEX OUTLET	☎ WALL SCONCE LIGHT	☎ EXHAUST FAN
⚡ THREE WAY SWITCH	📺 TELEVISION/CABLE	⚡ QUAD OUTLET	☎ CEILING FIXTURE	☎ EXHAUST FAN-LIGHT
⚡ FOUR WAY SWITCH	📡 DATA JACK	⚡ SWITCHED OUTLET (TOP ONLY)	☎ PULL CHAIN FIXTURE	☎ EXHAUST FAN-LIGHT-HEAT
⚡ DOOR JAMB SWITCH	🔊 SPEAKER	☎ WEATHER PROOF OUTLET	☎ RECESSED FIXTURE	☎ MOTOR-WINDOW 20 AMP SUPPLY
☎ DIMMER SWITCH	🌡 THERMOSTAT	☎ GROUND FAULT OUTLET	☎ FLUORESCENT FIXTURE	☎ MOTOR-Water Pump
☎ SOUND CONTROL	🔔 CHIME LOCATION	☎ 220V OUTLET	☎ RECESSED EYE BALL	☎ Security System Termination at Control Box in Laundry Room
☎ SMOKE DETECTOR	⚡ ELECTRIC PANEL IN BSMT	☎ FLOOR OUTLET	☎ UNDER CABINET FIXTURE	☎ Occupancy Sensor
☎ SMOKE/CO DETECTOR	⚡ ELECTRIC PANEL	☎ CENTRAL VAC	☎ UNDER CABINET FIXTURE	

ELECTRICAL HEIGHTS		
OUTLETS		
STANDARD WALL	12" TO BTM OF BOX (UNLESS CUSTOMER REQUESTS OTHERWISE)	
KITCHEN	46" TO BTM OF BOX	
VANITY/PEDESTAL	40" TO BTM OF BOX	
SWITCHES		
STANDARD WALL	42" TO BTM OF BOX	
KITCHEN/BATH	LINE UP W/ OUTLET IF ON THE SAME WALL, OTHERWISE 42" TO BTM OF BOX	
LIGHTS		
VANITY	84" TO CENTER OF FIXTURE	
SCONCE	PER PLAN	

GENERAL NOTES:  
 1. HEIGHTS ARE ALWAYS FROM TOP OF SUBFLOOR. THE HEIGHTS WILL NOT BE ADJUSTED FOR FLOORING.  
 2. "HIGH ON CABINET" NOTE MEANS THAT OUTLET WILL BE WITHIN 12" OF COUNTERTOP  
 3. ALL 125V 15A & 20A RECEPPTS TO BE LISTED AS TAMPER RESISTANT

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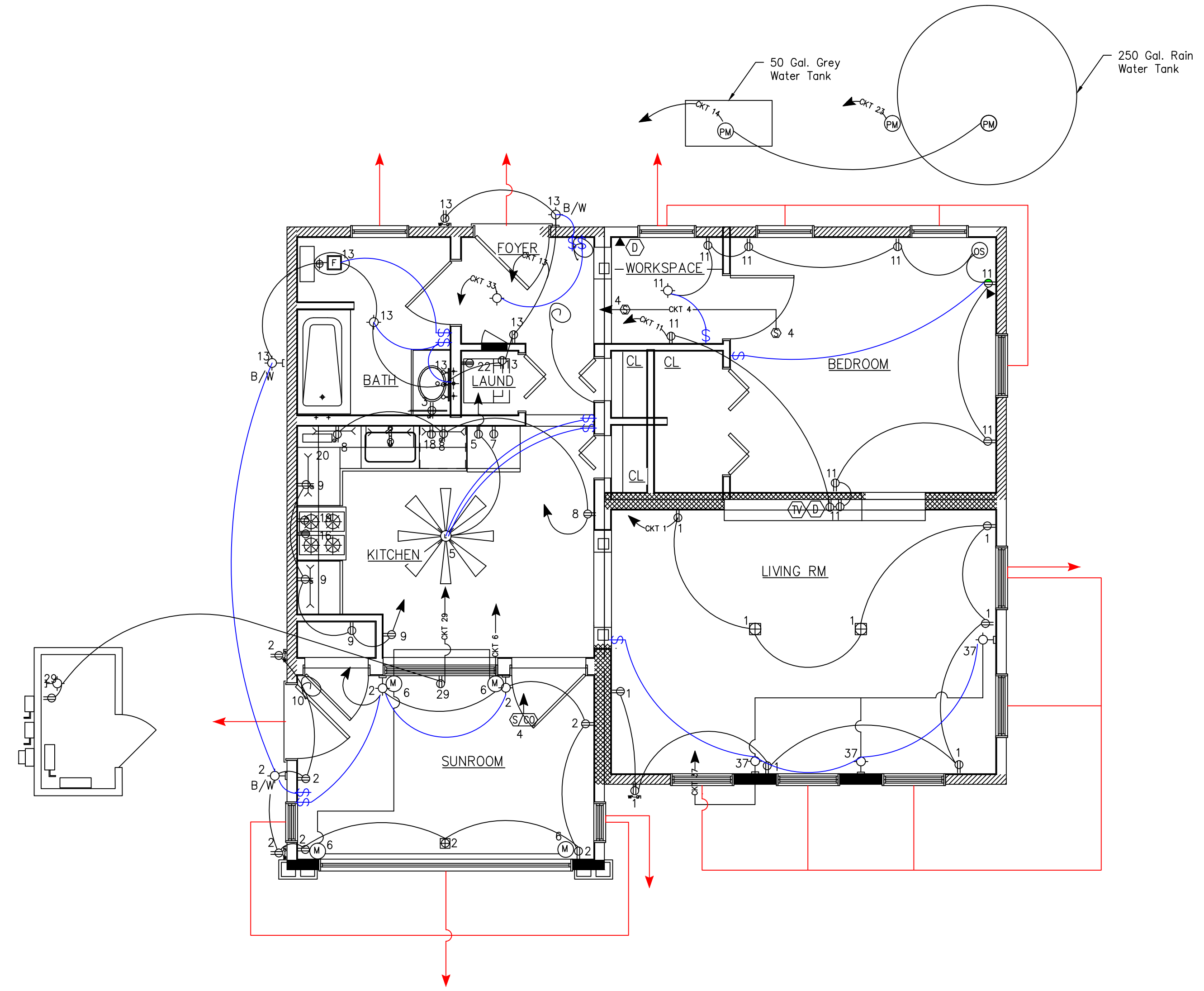
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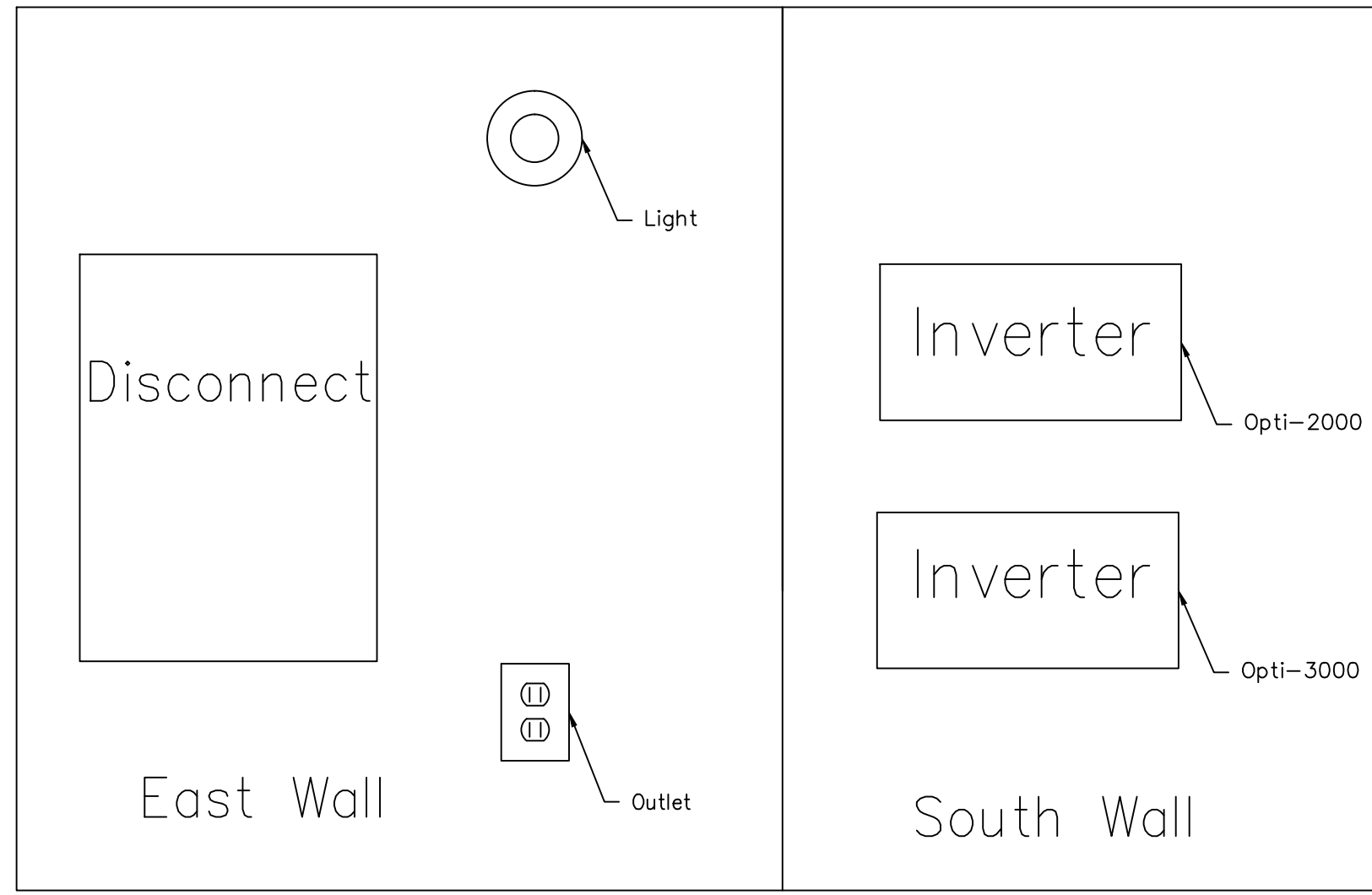
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# ELECTRICAL DISTRIBUTION PLAN

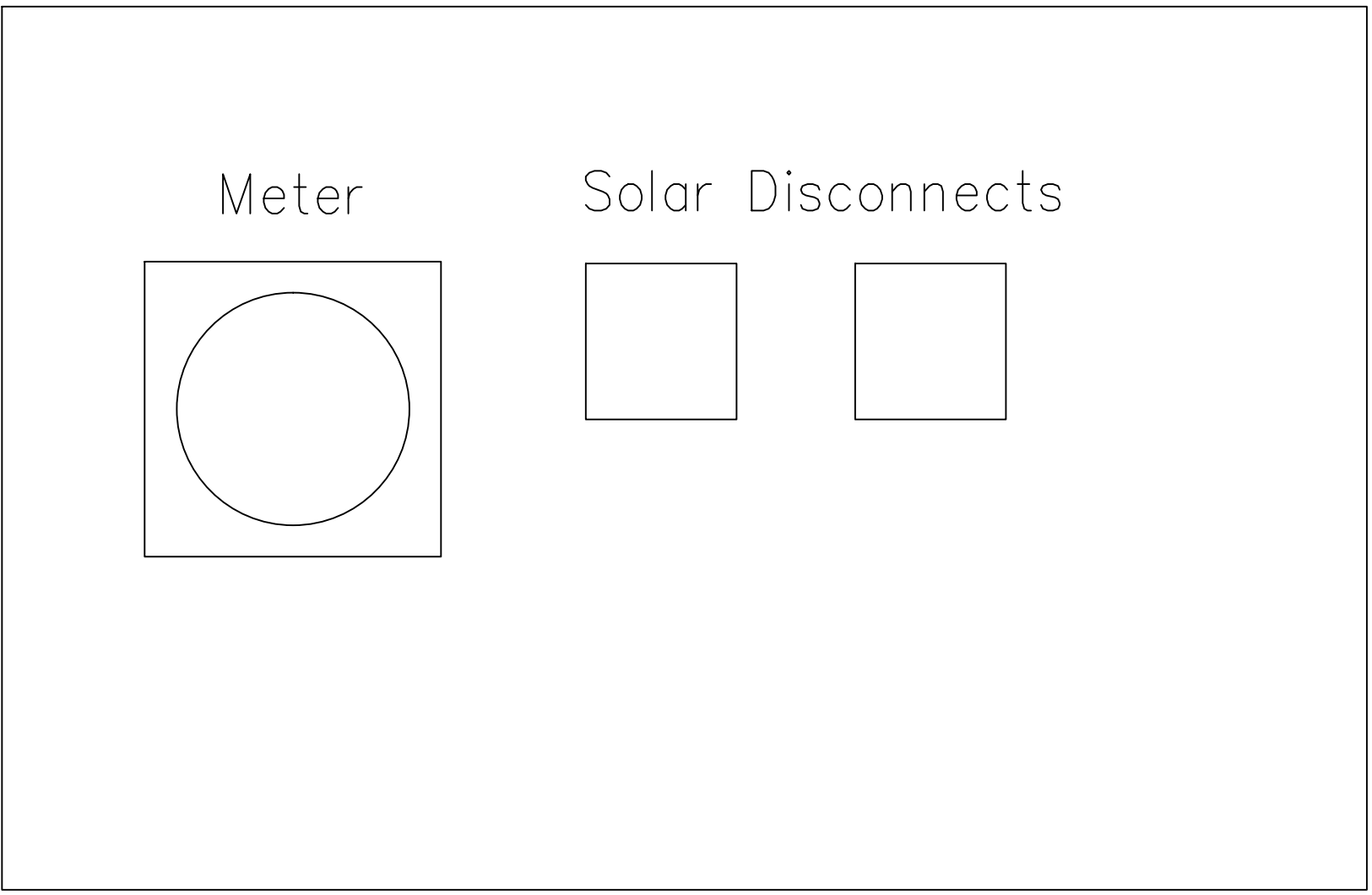
E-101



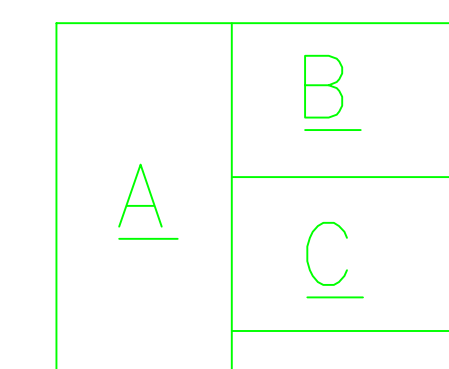
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 1/4"=1'-0"

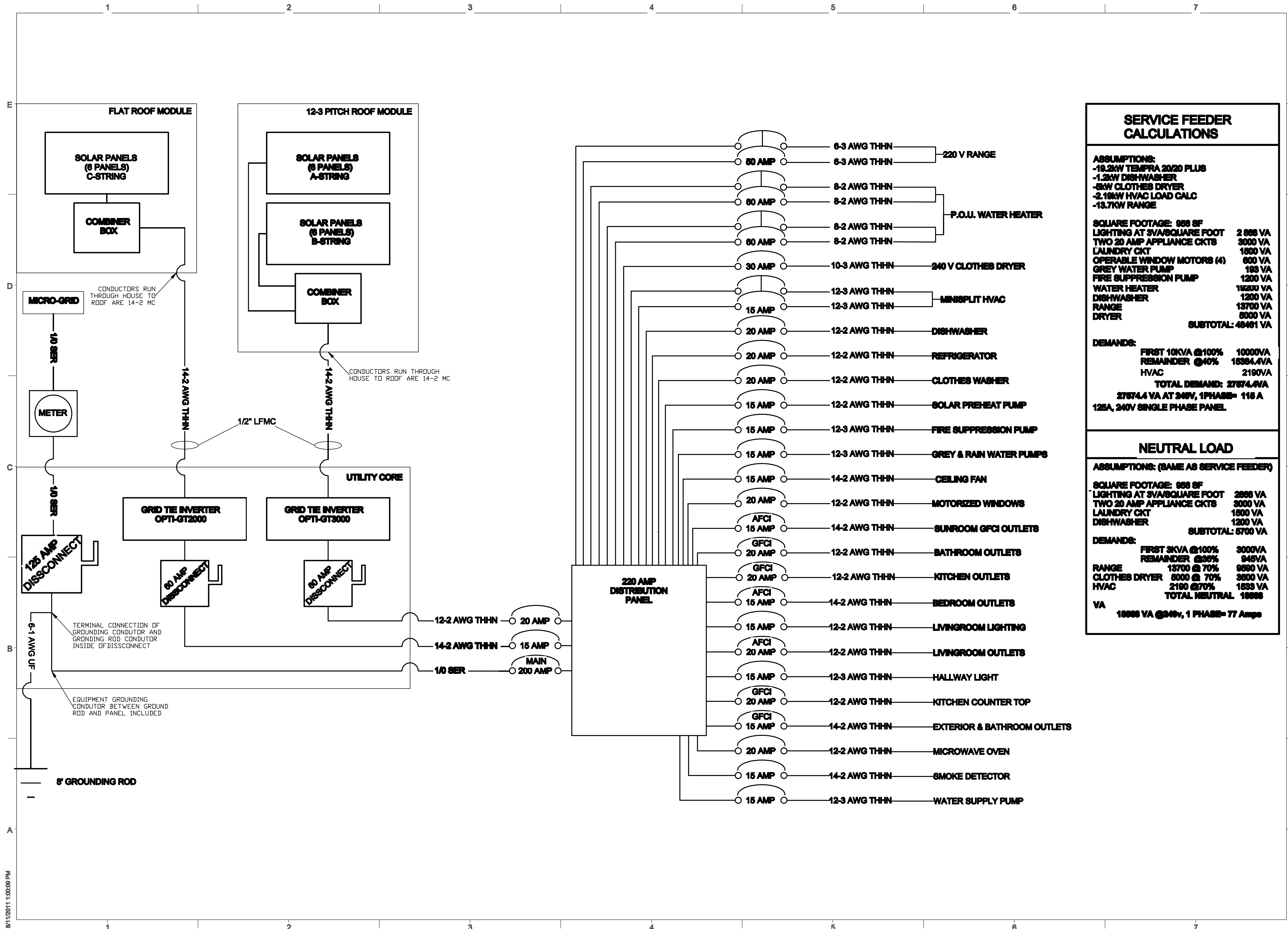


1 Utility Core Elevation Interior  
 NTS



1 Utility Core Elevation Exterior  
 NTS





### SERVICE FEEDER CALCULATIONS

**ASSUMPTIONS:**  
 -19.2kW TEMFRA 2020 PLUS  
 -1.2kW DISHWASHER  
 -5kW CLOTHES DRYER  
 -2.19kW HVAC LOAD CALC  
 -13.7kW RANGE

SQUARE FOOTAGE: 966 SF	2 888 VA
LIGHTING AT 3VA/SQUARE FOOT	3000 VA
TWO 20 AMP APPLIANCE CKTS	1800 VA
LAUNDRY CKT	600 VA
OPERABLE WINDOW MOTORS (4)	193 VA
GREY WATER PUMP	1200 VA
FIRE SUPPRESSION PUMP	18300 VA
WATER HEATER	1200 VA
DISHWASHER	13700 VA
RANGE	5000 VA
DRYER	
<b>SUBTOTAL:</b>	<b>48461 VA</b>

**DEMANDS:**  
 FIRST 10KVA @100% 10000VA  
 REMAINDER @40% 16384.4VA  
 HVAC 2190VA  
**TOTAL DEMAND: 27674.4VA**  
 27674.4 VA AT 240V, 1PHASE= 116 A  
 125A, 240V SINGLE PHASE PANEL

### NEUTRAL LOAD

**ASSUMPTIONS: (SAME AS SERVICE FEEDER)**

SQUARE FOOTAGE: 966 SF	2888 VA
LIGHTING AT 3VA/SQUARE FOOT	3000 VA
TWO 20 AMP APPLIANCE CKTS	1800 VA
LAUNDRY CKT	1200 VA
DISHWASHER	
<b>SUBTOTAL:</b>	<b>6700 VA</b>

**DEMANDS:**  
 FIRST 3KVA @100% 3000VA  
 REMAINDER @50% 948VA

RANGE 13700 @ 70%	9590 VA
CLOTHES DRYER 5000 @ 70%	3500 VA
HVAC 2190 @70%	1533 VA
<b>TOTAL NEUTRAL</b>	<b>18623 VA</b>

18623 VA @240v, 1 PHASE= 77 Amps

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SHEET TITLE  
**ONE LINE DIAGRAM**

SHEET INDEX

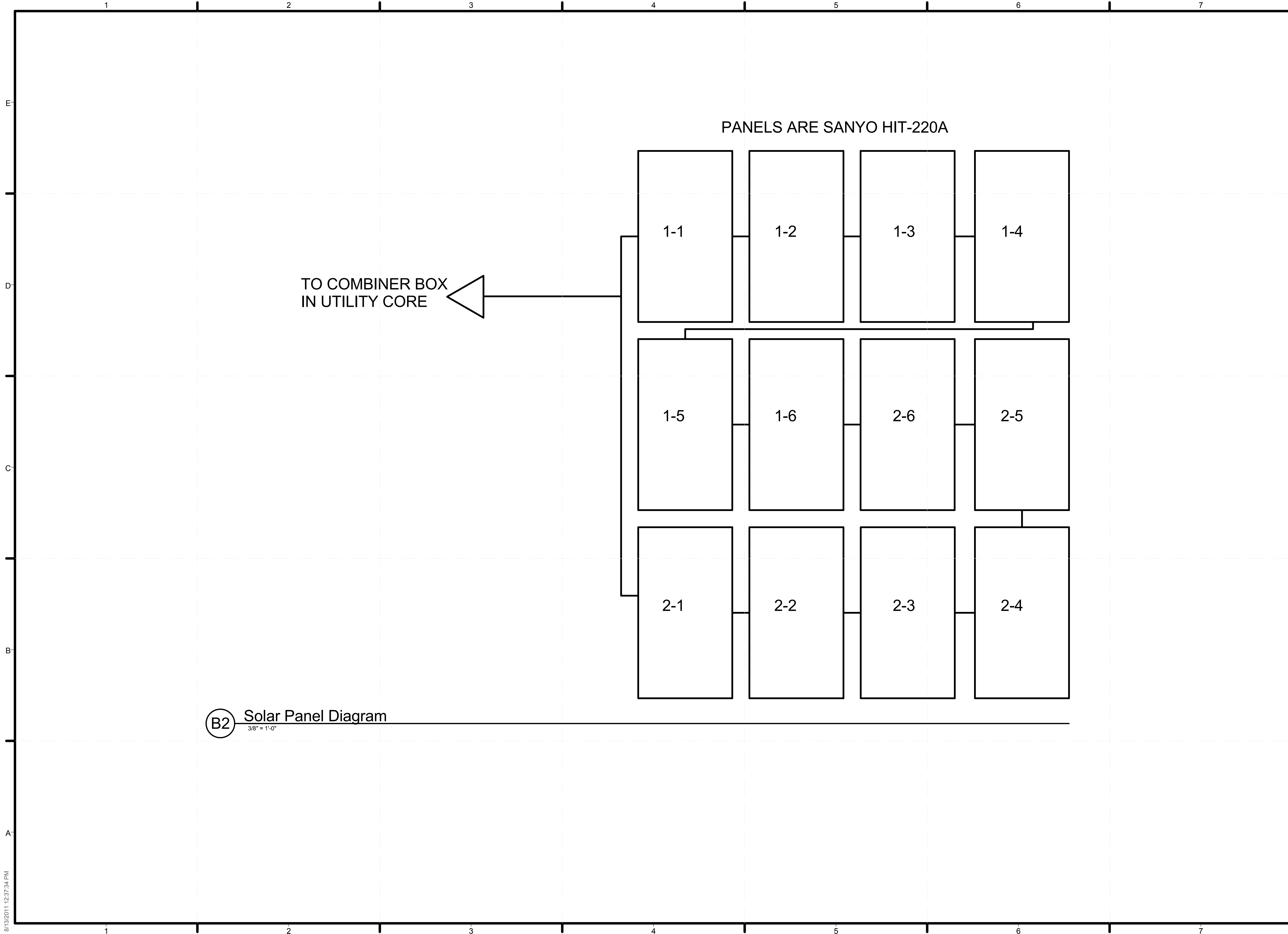
**E-601**

8/11/2011 1:00:09 PM









**B2** Solar Panel Diagram  
3/8" = 1'-0"



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Old Dominion University  
Kaufman Hall, Room 135  
Norfolk, VA 23529-0241

CONTACT: [WWW.TEAMTIDEWATERVA.ORG](http://WWW.TEAMTIDEWATERVA.ORG)

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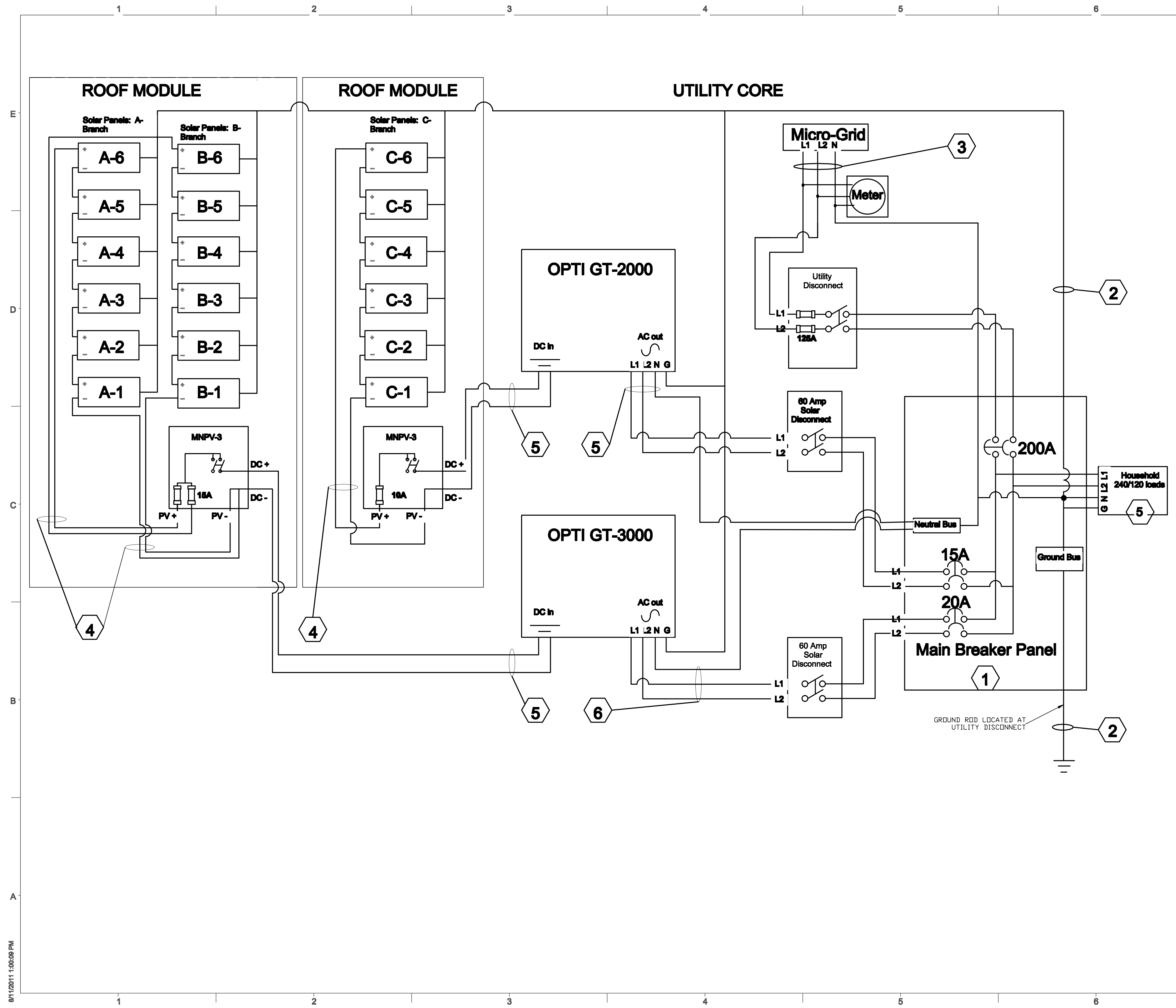
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SHEET TITLE  
**SOLAR PANEL  
DIAGRAM**

SHEET INDEX  
**E-603**



**GENERAL SHEET NOTES**

1. PV ARRAY A & B CONSISTS OF SANYO HIT-220W PANELS
2. PV ARRAY C CONSISTS OF BOSCH M60 230W PANELS
3. GRID TIE INVERTERS ARE THE OPTI GT-2000 AND GT-3000
4. NEUTRAL BUS BONDED TO GROUND BUS IN MAIN BREAKER PANEL DENOTED BY ELECTRICAL NODE.
5. WIRES DENOTED L1 ARE BLACK, L2 ARE RED.
6. NEC 2008 COMPLIANT

**SHEET KEYNOTES**

- 1 MAIN BREAKER PANEL CH-248200E 240/120Vac, 200A, 25kAIC. LOAD CENTER IS A 200A LC, LOAD CALCULATED <125A
- 2 #8 AWG THWN-2,
- 3 1/0 SER
- 4 PANEL MANUFACTURER PROVIDED WIRE
- 5 14 AWG THWN-2, IN 1/2" LFMC OUTSIDE & MC INSIDE HOUSE
- 6 12 AWG THWN-2,

**DC CALCULATIONS**

1.  $I_{sc} = 5.65A$ , (SANYO STRING)  
 $5.65A + 5.65A = 11.12A$   
 $156\% \text{ OF } 11.12A = 17.35A$   
 FUSE 20A.
2.  $I_{sc} = 8.3A$ , (BOSCH STRING)  
 $156\% \text{ OF } I_{sc} = 14.976A$   
 FUSES 15A.
3. PER TABLE 310.16, 75°C RATED CABLE  
 14 AWG REQUIRED FOR A, B & C
4. SANYO  $V_{oc} = 52.3V$   
 STRING =  $52.3V \times 6 = 313.8V$   
 TEMP CORRECTION  
 $313.8V \times 1.14 = 357.7V$
5. BOSCH  $V_{oc} = 36.5V$   
 STRING =  $36.5V \times 6 = 219V$   
 TEMP CORRECTION  
 $219V \times 1.14 = 249.66V$

**AC CALCULATIONS**

- INVERTER TO MAIN PANEL  
 GT 2000: 125%  $9.8A = 12A$   
 BACKFED BREAKER SIZE: 15A  
 WIRE SIZE: 14 AWG
- GT 3000: 125%  $14.4A = 18A$   
 BACKFED BREAKER SIZE: 20A  
 WIRE SIZE: 12 AWG

**GROUNDING CALCULATIONS**

- PER NEC: SOLE POINT CONNECTION TO GROUNDING ELECTRODE NEED NOT BE LARGER THAN 6 AWG. 6 AWG SELECTED
- DC GROUND: 6 AWG  
 AC GROUND: 6 AWG

TEAM TIDEWATER VIRGINIA  
 Old Dominion University and Hampton University



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**THREE-LINE DIAGRAM**

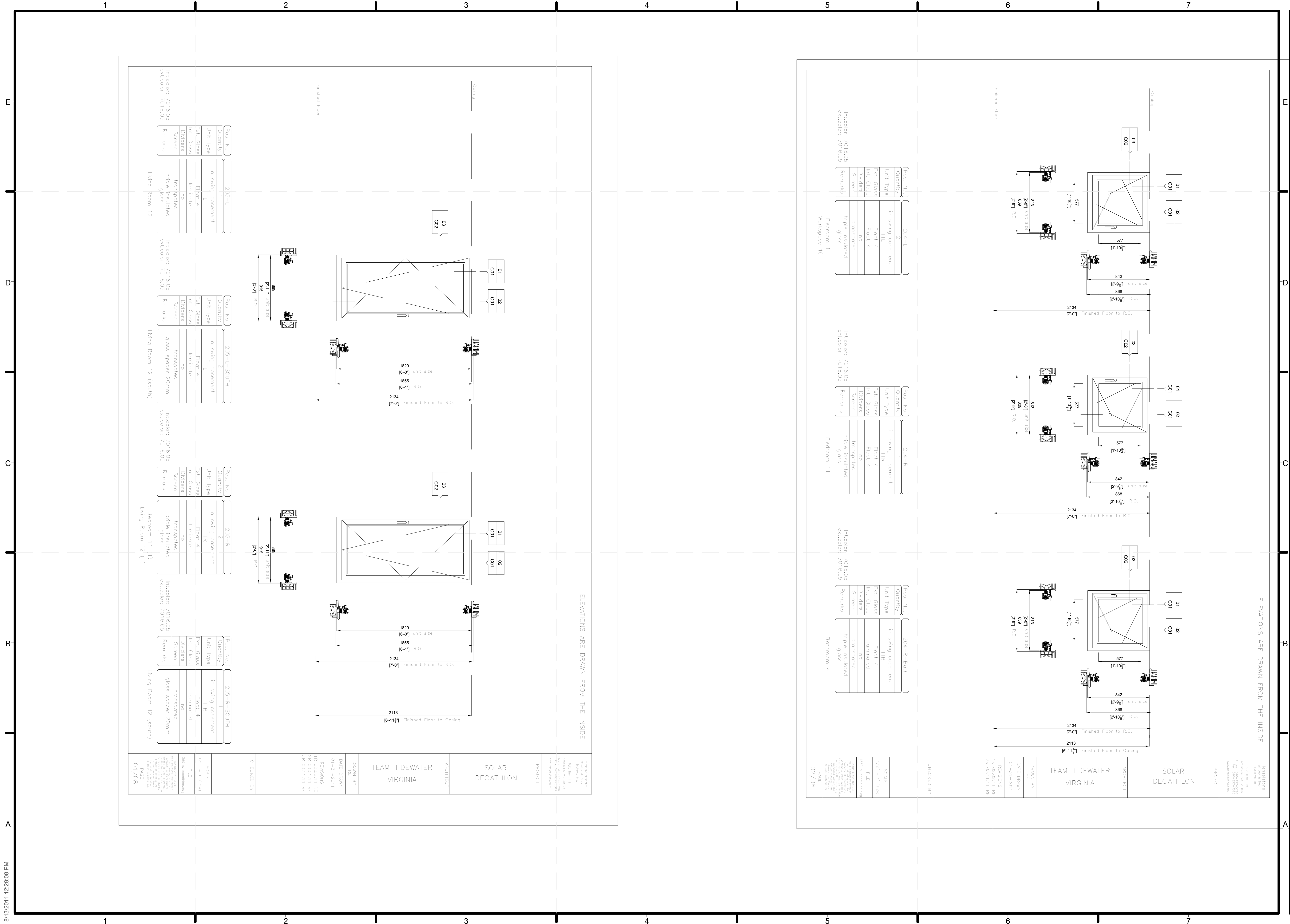
SHEET INDEX

**E-604**

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ELEVATIONS ARE DRAWN FROM THE INSIDE

Room No.	Quantity	Unit Type	In swing casement	Ext. Glass	Int. Glass	Dividers	Screen	Remarks
205-L	1	TTL	no	tempered	tempered	no	no	triple insulated glass
205-L-SOUTH	2	TTL	no	tempered	tempered	no	no	glass spacer 20mm
205-R	2	TTR	no	tempered	tempered	no	no	triple insulated glass
205-R-SOUTH	1	TTR	no	tempered	tempered	no	no	glass spacer 20mm

Inset color: 2016.05  
 ext. color: 2016.05  
 Living Room 12  
 Living Room 12 (south)

ELEVATIONS ARE DRAWN FROM THE INSIDE

Room No.	Quantity	Unit Type	In swing casement	Ext. Glass	Int. Glass	Dividers	Screen	Remarks
204-L	2	TTL	no	tempered	tempered	no	no	triple insulated glass
204-R	1	TTR	no	tempered	tempered	no	no	triple insulated glass
204-R-Bath	1	TTR	no	tempered	tempered	no	no	triple insulated glass

Inset color: 2016.05  
 ext. color: 2016.05  
 Restroom 10  
 Bedroom 11  
 Bedroom 11  
 Bathroom 4

HENSELSTONE ARCHITECTURE  
 1500 N. BRISTOL AVE.  
 SUITE 100  
 NORFOLK, VA 23510  
 TEL: 757.637.1111  
 WWW.HENSELSTONE.COM

PROJECT: SOLAR DECATHLON  
 ARCHITECT: TEAM TIDEWATER VIRGINIA  
 DRAWN BY: DATE DRAWN: 01-31-2011  
 REVISIONS: R 02/04/11 RE 2/8 03/11/11 RE 3/8 03/11/11 RE

SCALE: 1/2" = 1'-0"  
 FILE: 1500 N. BRISTOL AVE.  
 SHEET: Z-101  
 DATE: 02/08



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SHEET TITLE  
**HENSELSTONE SHOP DRAWINGS**

SHEET INDEX

**Z-101**





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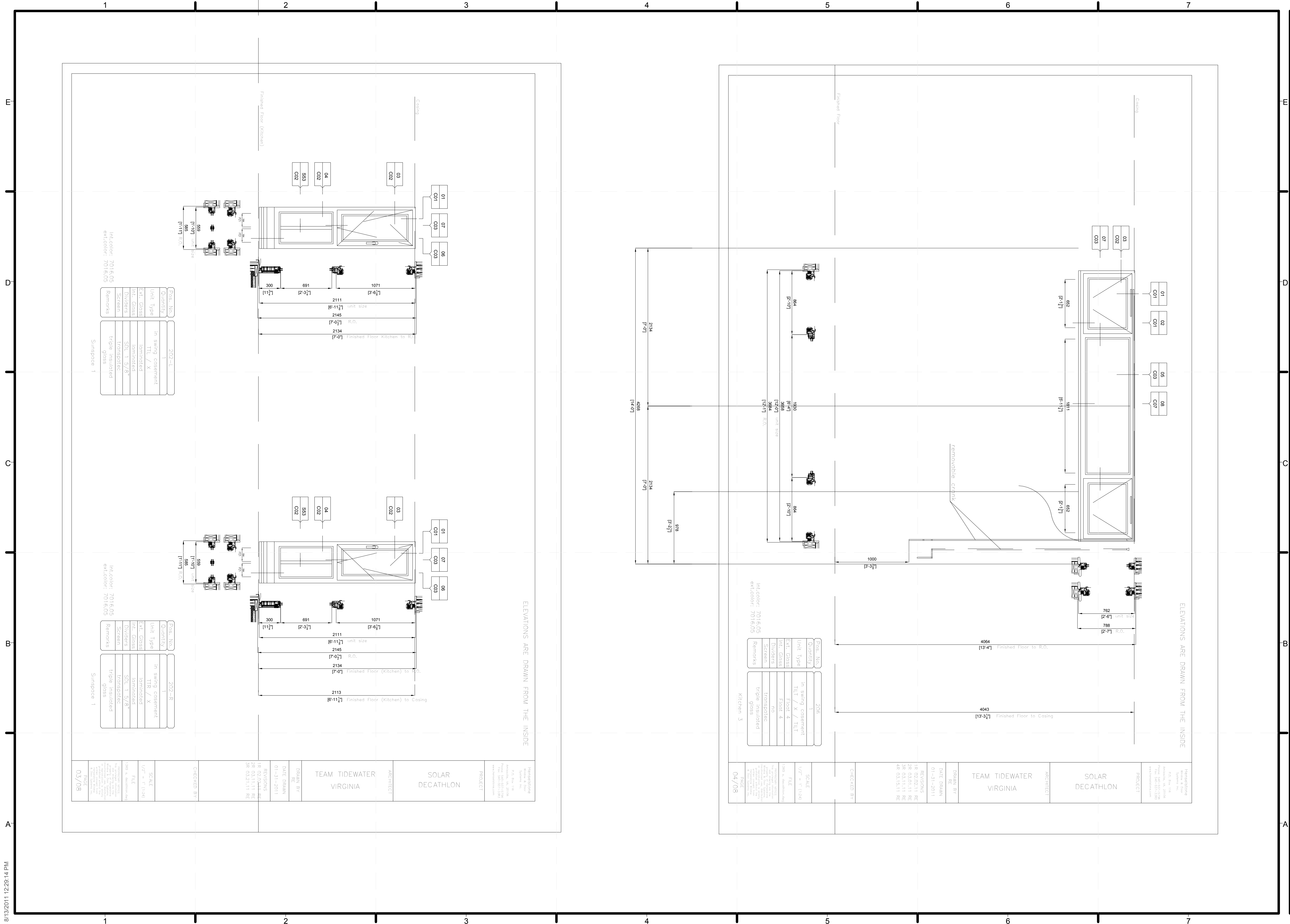
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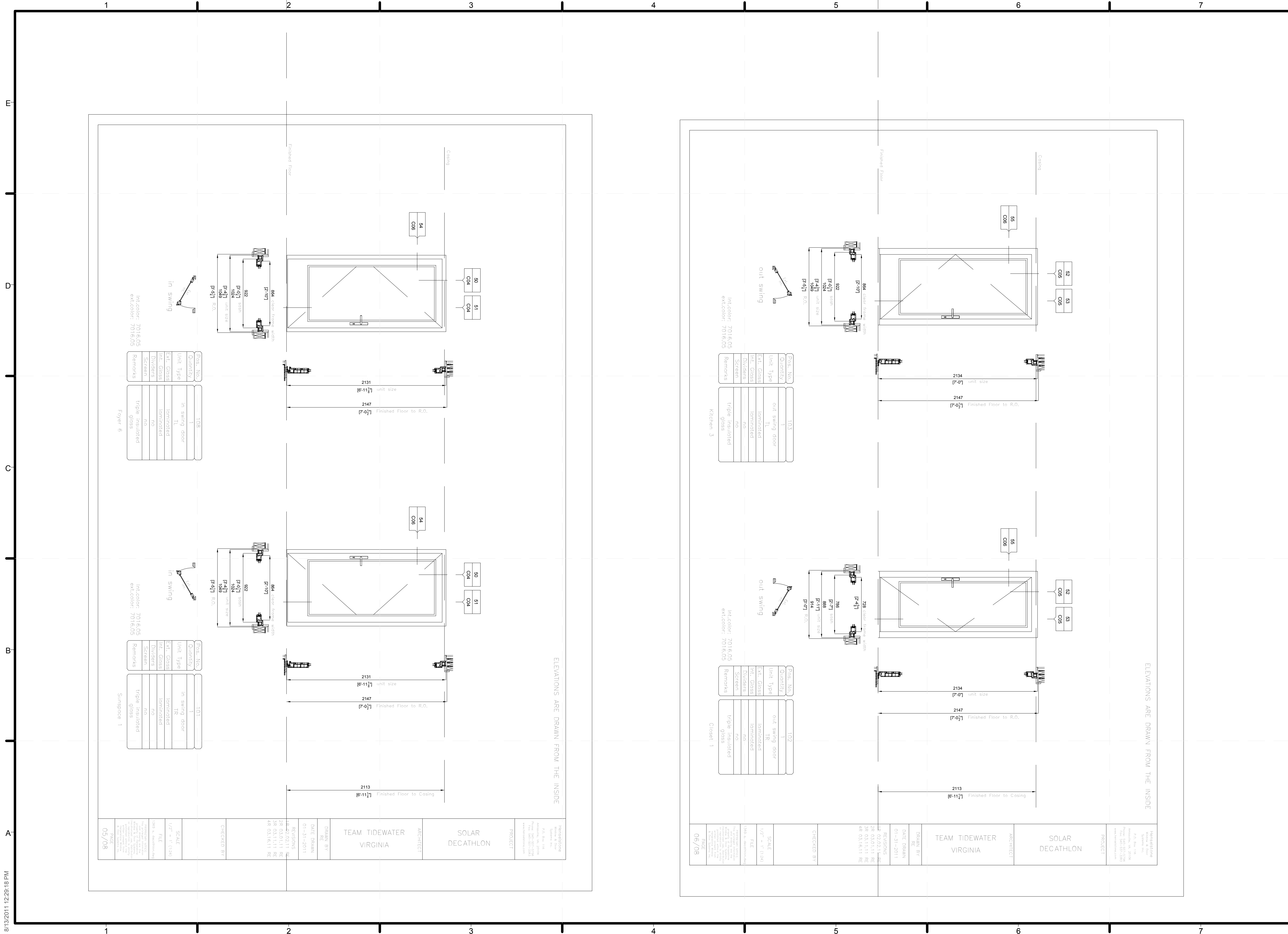
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**Z-102**





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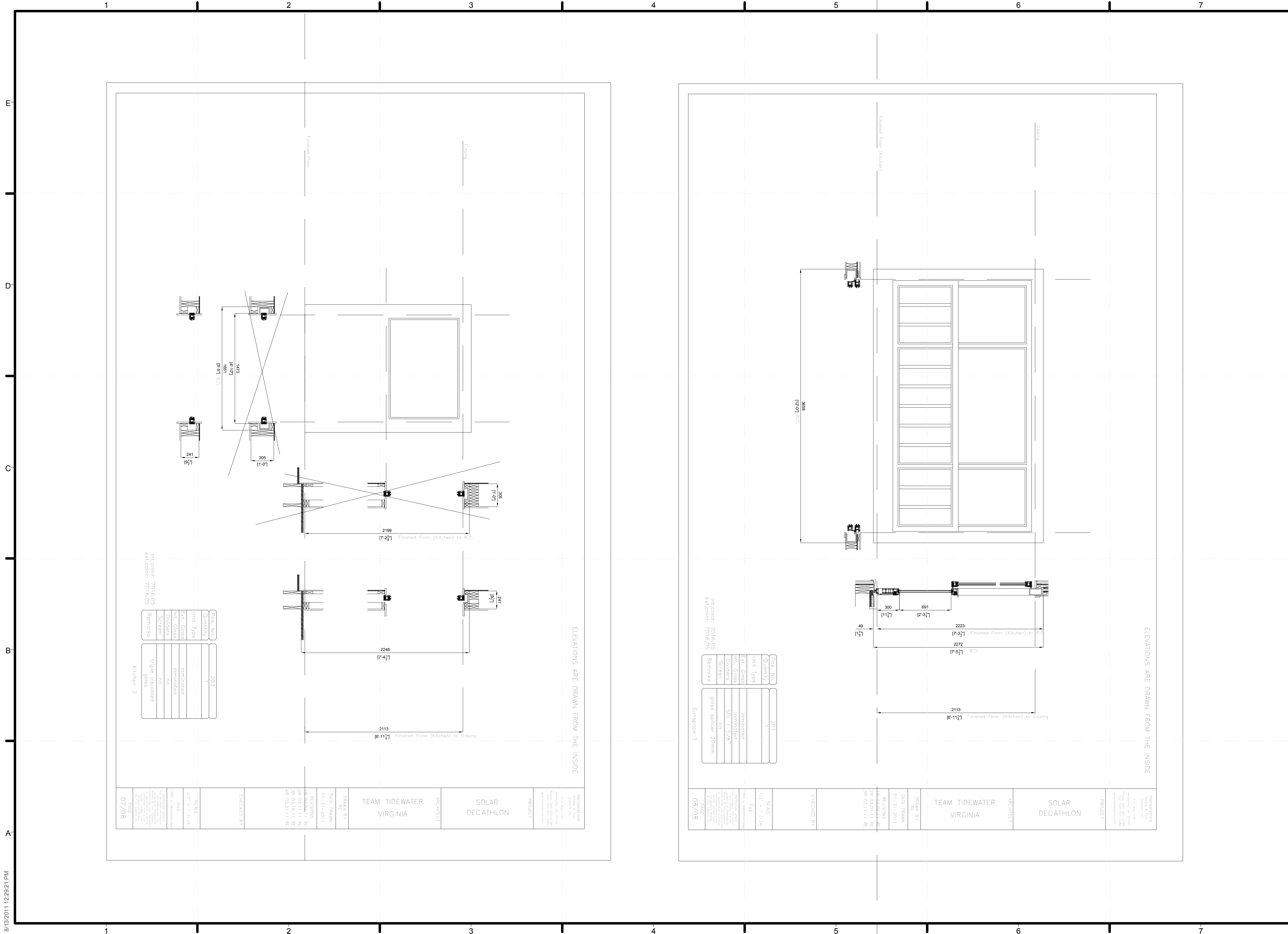
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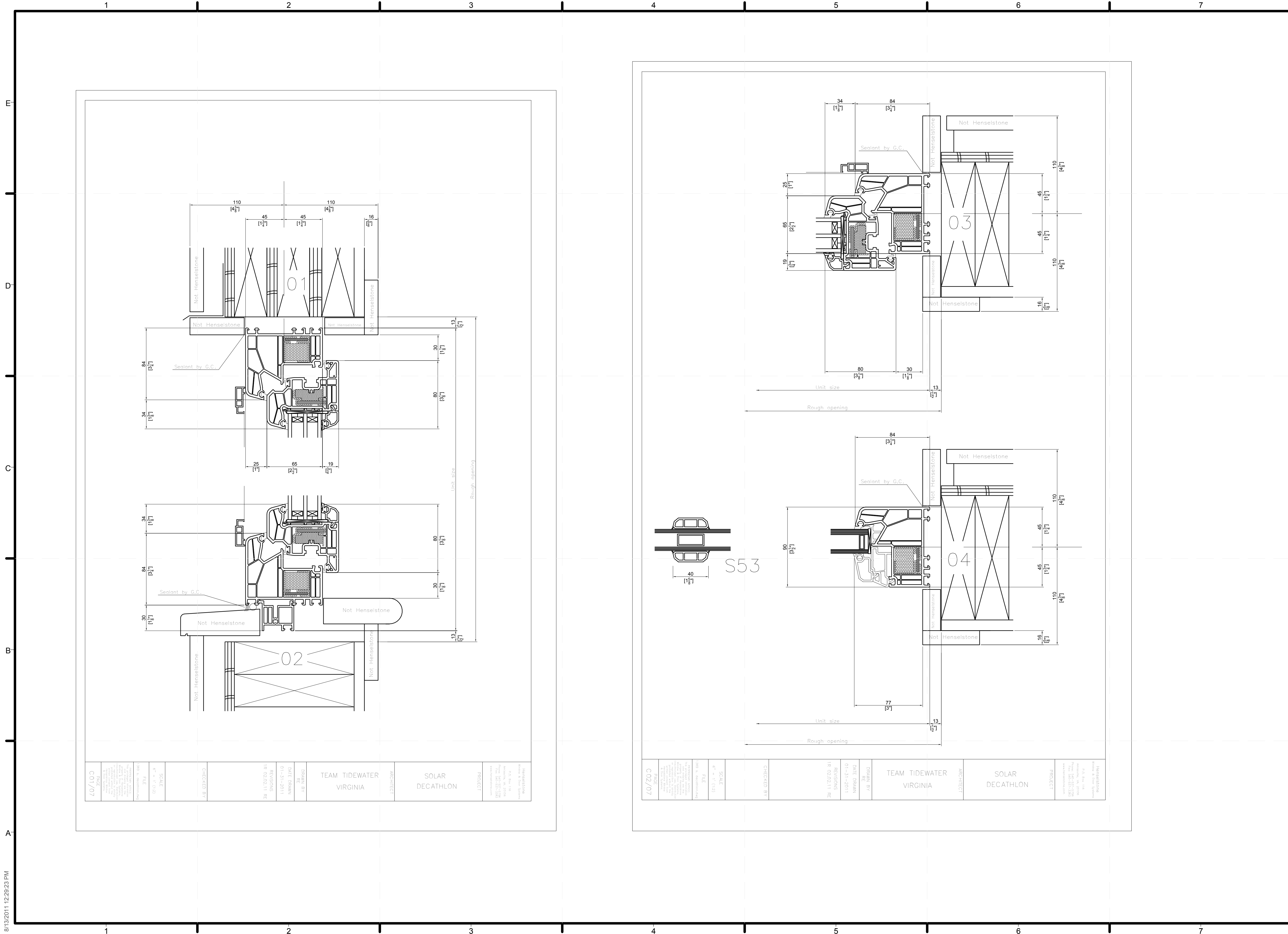
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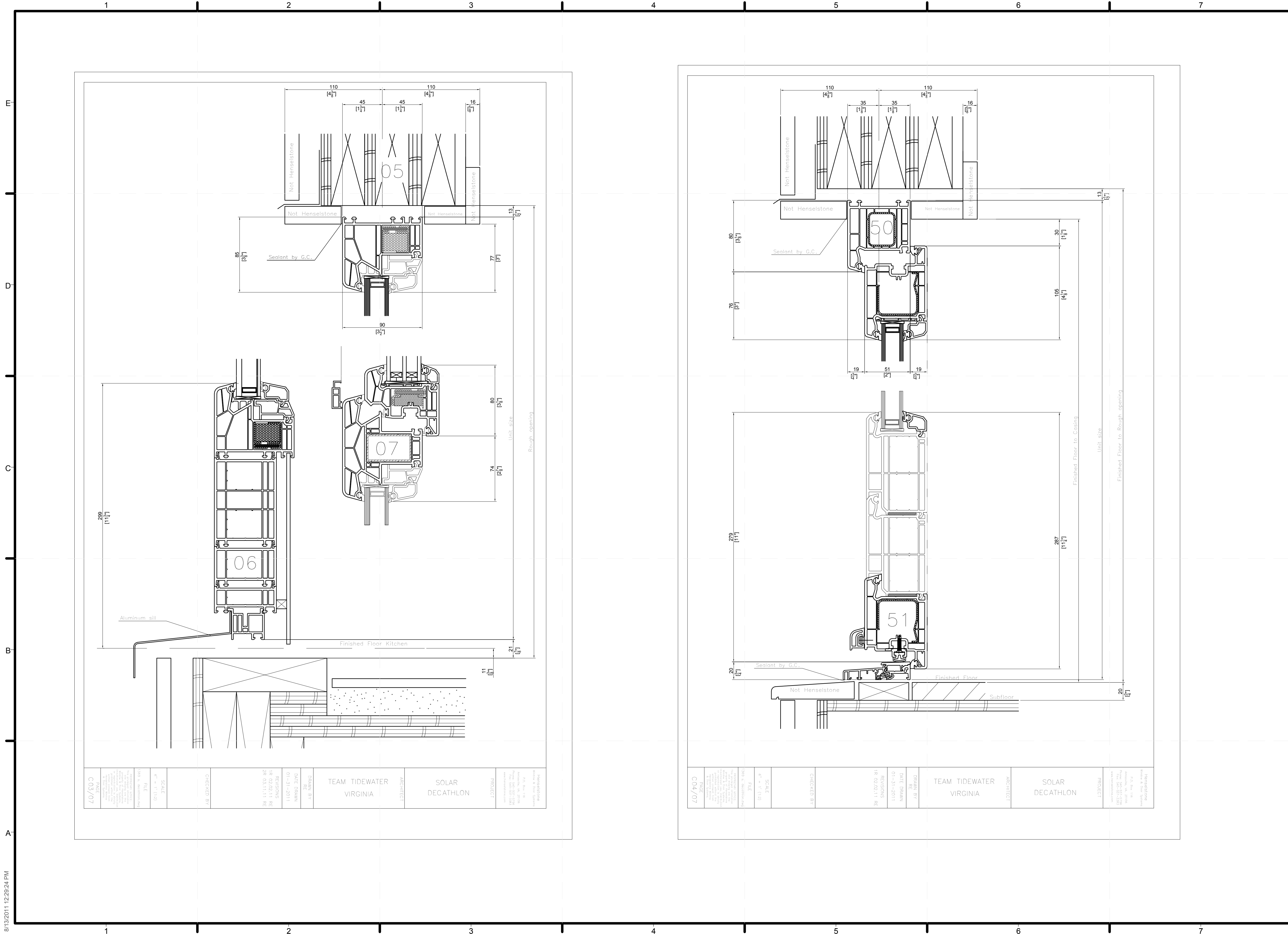
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**Z-105**



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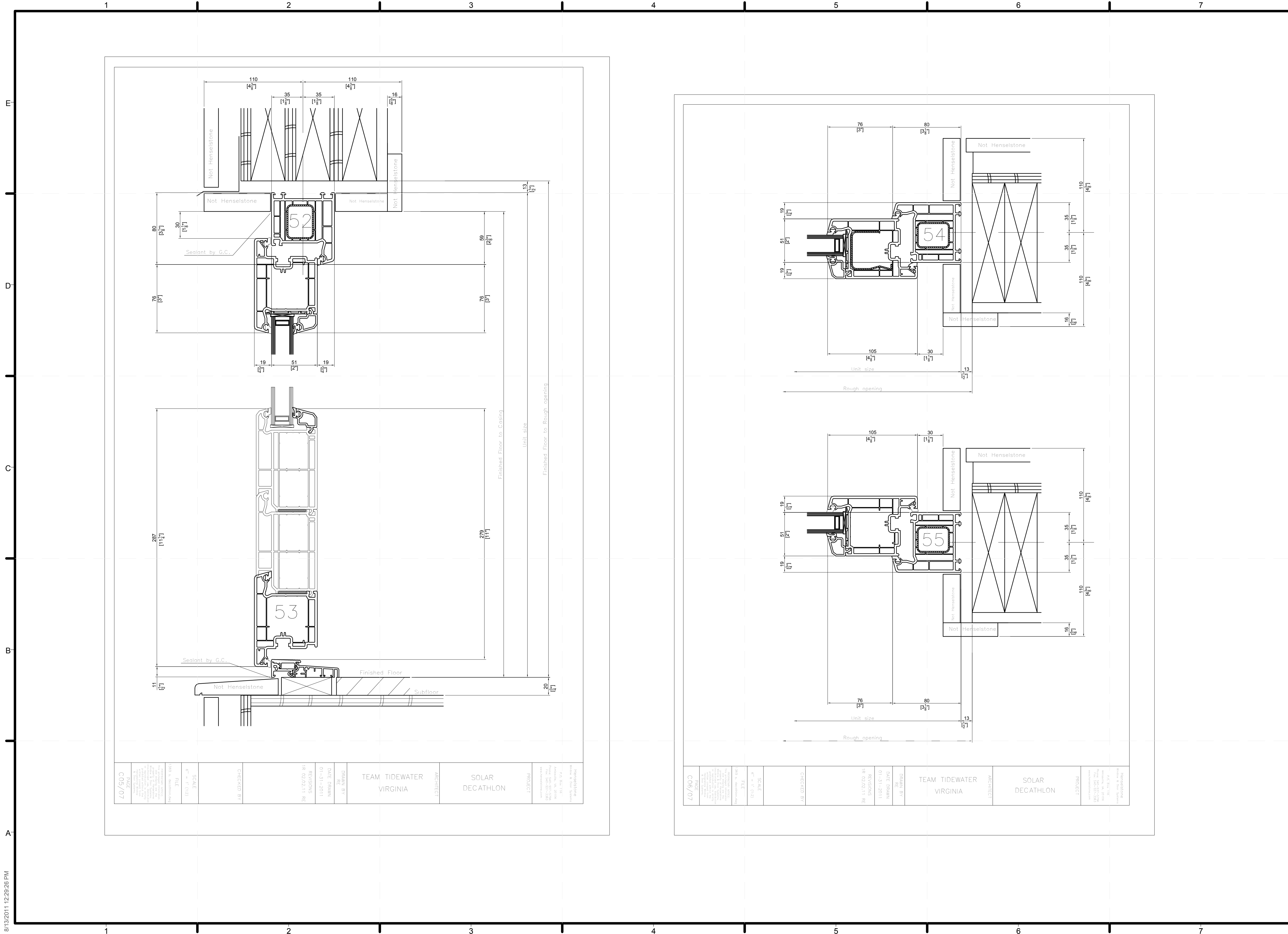
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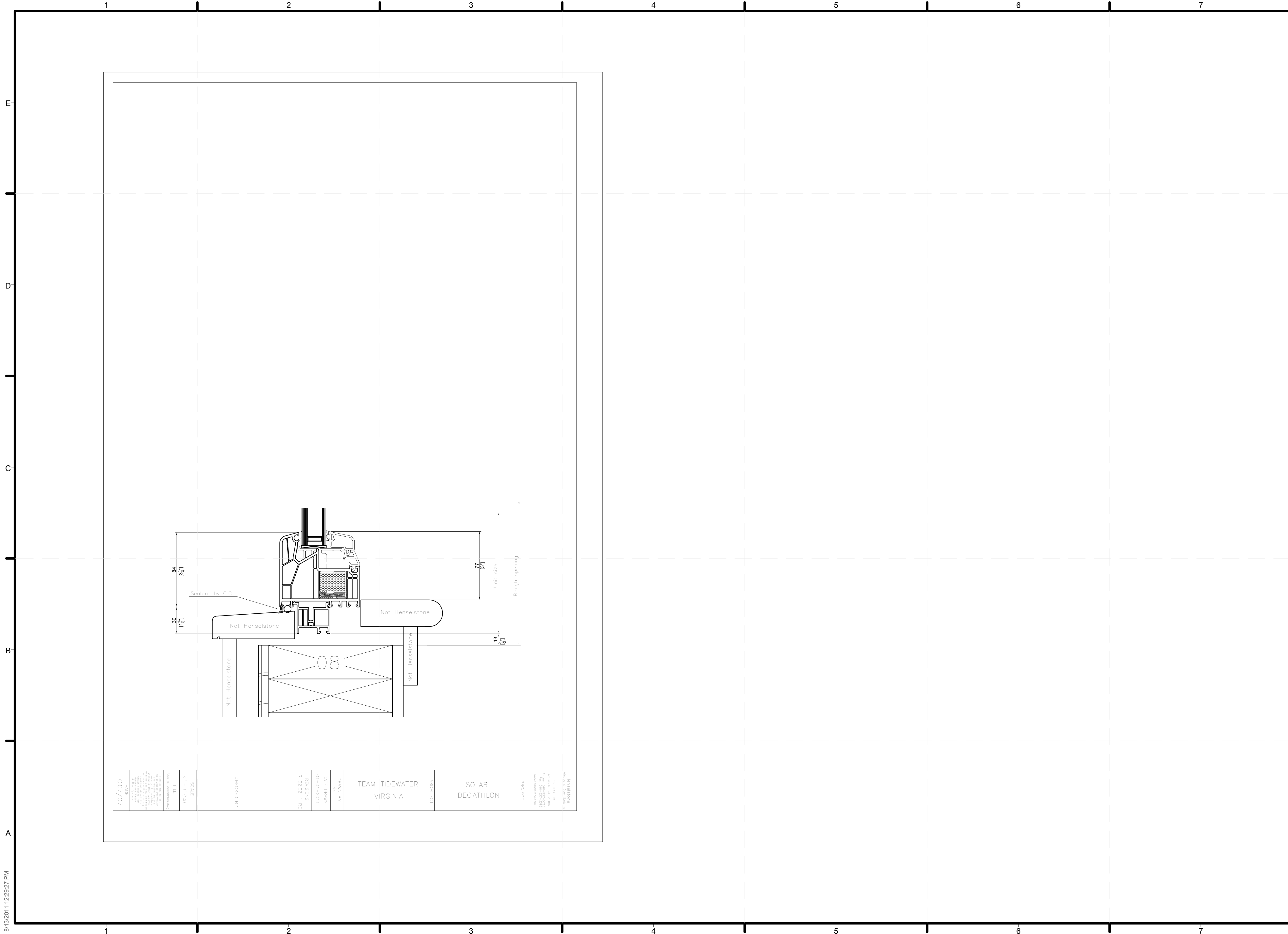
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SHEET INDEX

**Z-107**





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**Z-108**



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18/03/2011 11:20:11 AM CTIVE PROJECTS\SOLAR DECATHLON HOUSE\SHEET\A0.0 COVER SHEET.DWG

1

2

3

4

5

6

7

A

B

C

D

E

CODES

2006 VIRGINIA UNIFORM STATEWIDE BUILDING CODE TO DESIGN CODES

2009 INTERNATIONAL RESIDENTIAL CODE

2009 NATIONAL ELECTRICAL CODE

2006 INTERNATIONAL ENERGY CONSERVATION CODE

ROOF VENTILATION

E 456/300 = 3.14 SQ. FT. REQUIRED SOFFIT AND EAVE

40.2 LF x 1.3 PLF = 111.9 SQ.FT.

111.9 x 0.09125 = 9.7 SQ.FT.

RIDGE VENT: 0 LF x 0.175 = 0.0 SQ. FT.

TOTAL VENTILATION: 9.7 SQ.FT. + 0.0 SQ.FT. = 9.7 SQ. FT. PROVIDED EXCEEDS REQUIREMENT BY 0.5 SQ.FT.

CONSTRUCTION TYPE

CONSTRUCTION TYPE: V-B (WOOD FRAME)

DESIGN LIVE LOADS

ROOF: 20 PSF

PORCH ROOFS (BY BUILDER): 20 PSF

GROUND SNOW LOAD: 10 PSF

WALL: 34 PSF

FLOORS: FIRST FLOOR: 50 PSF

SECOND FLOOR: 40 PSF

ATTIC: 20 PSF

(STORAGE ONLY)

STAIRS: 40 PSF

WIND LOAD: 100 MPH EXP C (95EC)

D SEISMIC ZONE: A

MINIMUM WINDON DP RATING: ---

OCCUPANCY CLASSIFICATION

USE GROUP: R5 (SINGLE FAMILY)

SITE LOCATION

CITY: Norfolk

COUNTY: ---

STATE: Virginia

SQUARE FOOTAGE

FINISHED BASEMENT SQ FT: --- S.F.

1st FLOOR SQUARE FOOTAGE: 456 S.F.

2nd FLOOR SQUARE FOOTAGE: --- S.F.

TOTAL SQUARE FOOTAGE: 456.0 S.F.

APPLIANCES & EQUIPMENT


C 1. REFRIGERATOR TO BE SUPPLIED AND SITE INSTALLED BY OTHERS.

2. HVAC UNIT TO BE SUPPLIED AND SITE INSTALLED BY OTHERS PER ALL STATE AND/OR LOCAL CODES GOVERNING SUCH ITEMS.

3. WATER HEATERS SUPPLIED AND INSTALLED BY OTHERS ON-SITE PER ALL STATE AND/OR LOCAL CODES GOVERNING SUCH ITEMS.

4. WASHER / DRYER SUPPLIED AND SITE INSTALLED BY OTHERS PER ALL STATE AND/OR LOCAL CODES GOVERNING SUCH ITEMS.

5. COMMUNICATION BOX (IF NOT SHOWN ON PLAN) TO BE SUPPLIED AND INSTALLED ON-SITE BY OTHERS



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Linthicum, MD 21040  
ph (410) 694-0091  
fx (410) 694-0799

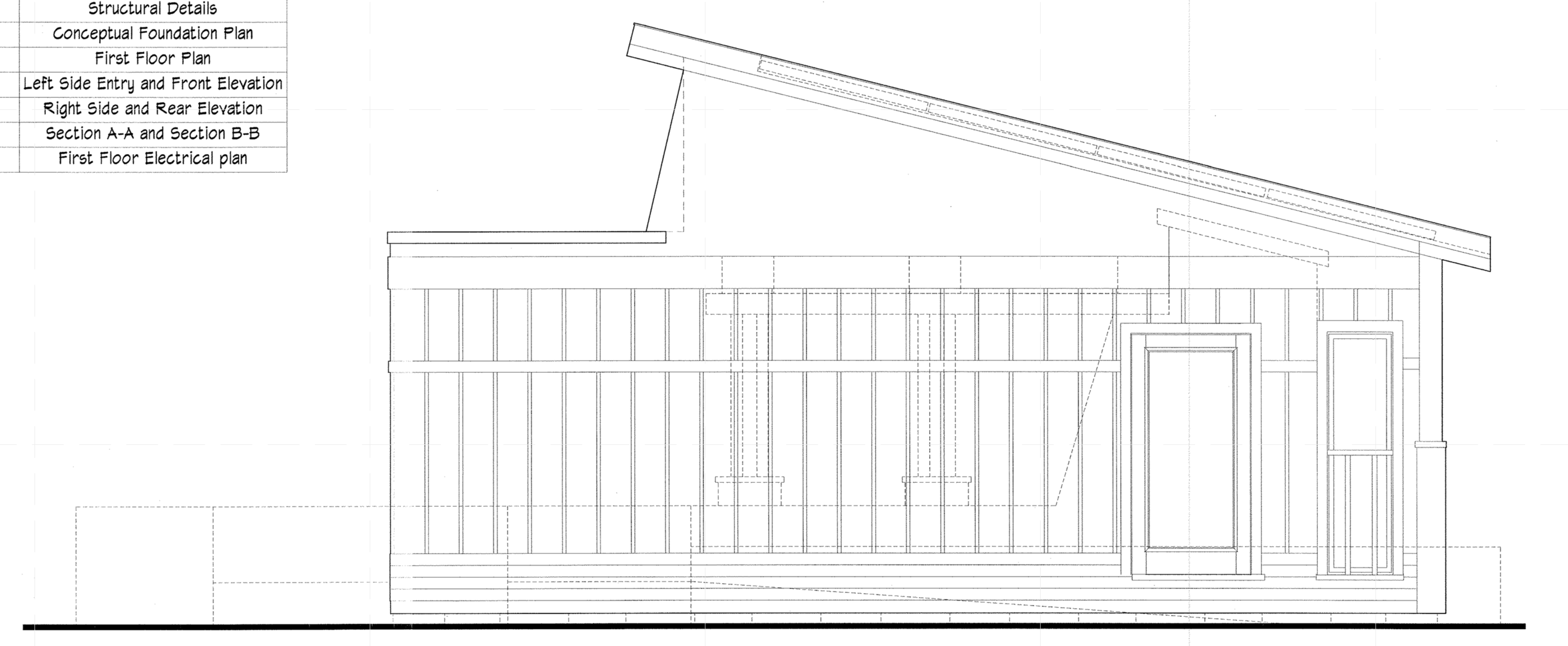
MANUFACTURING PLANT ADDRESS: 526 Runville Rd  
Baltimore, PA 16629  
ph (814) 395-0266  
fx (814) 395-0494

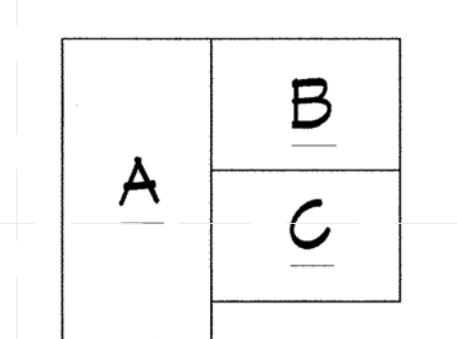
# Solar Decathlon House

## Virginia SUBMITTAL

Sheet List Table

Sheet Number	Sheet Title
A0.0	Cover Sheet
A0.1	Structural Details
A1.0	Conceptual Foundation Plan
A2.1	First Floor Plan
A3.1	Left Side Entry and Front Elevation
A3.2	Right Side and Rear Elevation
A5.1	Section A-A and Section B-B
E2.1	First Floor Electrical plan





MODULAR KEY PLAN

NOTES


1 THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY SYSTEM AND SEWER SYSTEM IF THESE SERVICES ARE AVAILABLE.

2 WIND BORNE DEBRIS PROTECTION PROVIDED ONSITE BY OTHERS WHEN APPLICABLE

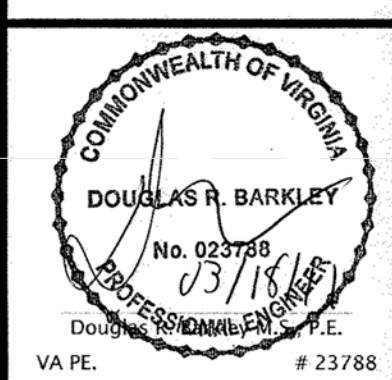
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- FOUNDATION
- FOUNDATION CONNECTIONS
- HEATING SYSTEM
- EXTERIOR LIGHT FIXTURES
- PLUMBING CONNECTIONS
- STAIRS TO GRADE
- DECKS, PORCHES, AND PORCH ROOFS
- ATTIC ELECTRICAL
- HOT WATER HEATERS
- GAS LINES



1302 Concourse Drive  
Suite 202  
Linthicum, MD 21090  
(410) 694-0091  
(410) 694-0799 Fax



PRODUCTION APPROVAL SEAL

REV	DATE	DESCRIPTION
031611	---	---
0314/1	---	Provided and sent to Engineering
0314/1	---	Customer redlines revised
031611	---	Customer redlines revised
031611	---	Engineering

CUSTOMER REDLINES: ---

CUSTOMER REVISIONS: ---

PLANT REVISIONS: ---

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Norfolk, Virginia, ---

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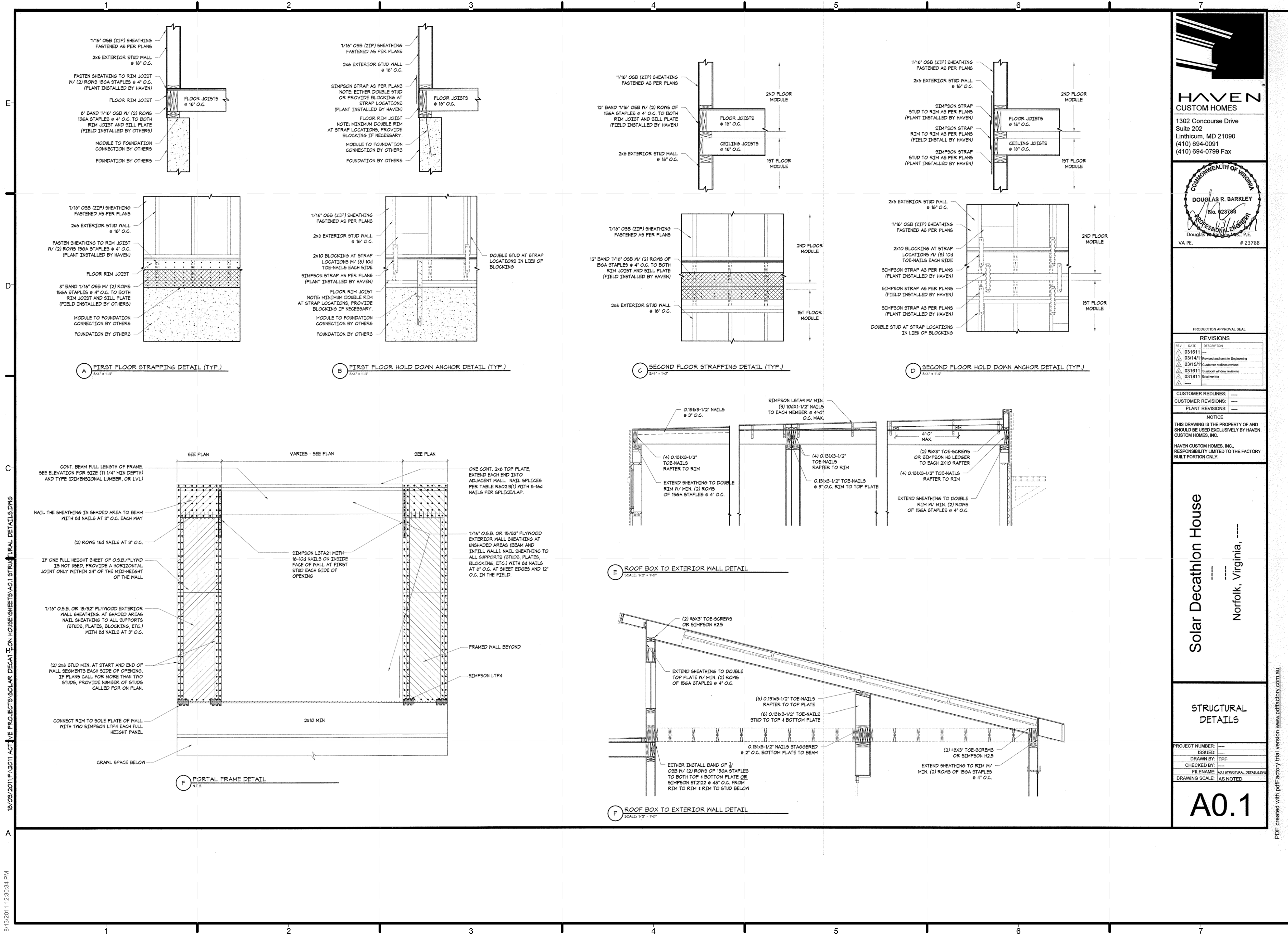
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**Z-109**

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 1302 Concourse Drive  
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COMMONWEALTH OF VIRGINIA  
**DOUGLAS R. BARKLEY**  
 No. 023785  
 PROFESSIONAL ENGINEER  
 Douglas R. Barkley, P.E.  
 VA PE. # 23788

PRODUCTION APPROVAL SEAL

REV	DATE	DESCRIPTION
031611		
031417		Revised and sent to Engineering
031511		Customer review, revised
031611		Customer review, revised
031811		Engineering

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 Norfolk, Virginia, ---

**STRUCTURAL DETAILS**

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**HAVEN SHOP DRAWINGS**

**Z-110**

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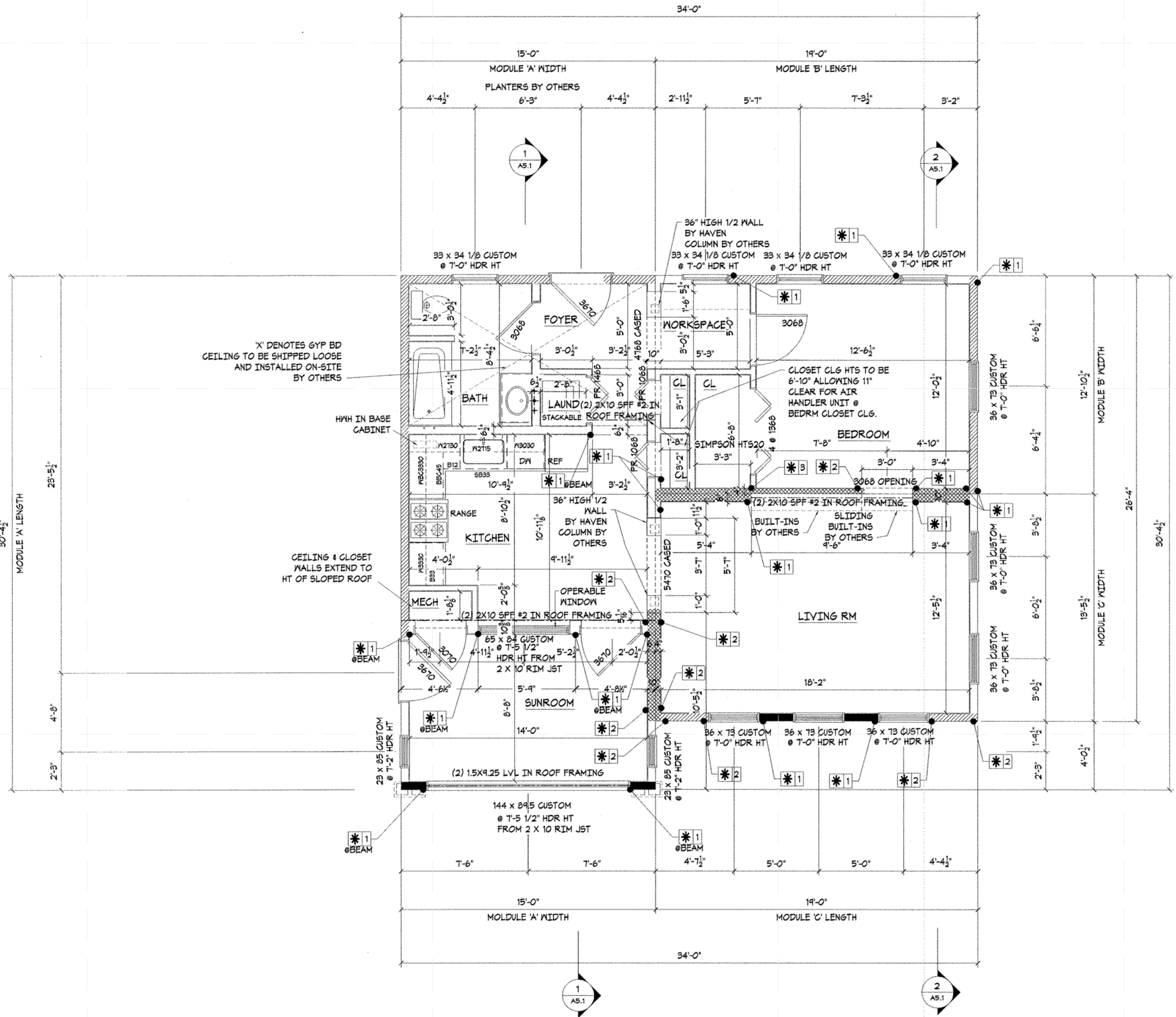




Window Schedule													
Quantity	Model #	Rough Opening Width	Rough Opening Height	Type	Manufacturer	Light	Vent	Tempered	Impact	DP Required	DP Provided	Egress	Remarks
1	144 x 84.5 CUSTOM	12'-0"	7'-5 1/2"	Picture	By Others						A		Sunroom, RO from top of 2 x 10 rim joist
1	145 x 31 Custom	12'-1"	2'-7"	Picture	By Others						A		Clerestory Window
2	23 x 85 CUSTOM	1'-11"	7'-1"	Double Hung	By Others						A		Sunroom
4	39 x 34 1/8 CUSTOM	2'-4"	2'-10 1/8"	Awning	By Others						A		Bath/Workspace/Bedroom
6	36 x 78 CUSTOM	3'-0"	6'-1"	Double Hung	By Others						A		Bedroom/Living Rm
1	65 x 84 CUSTOM	5'-5"	7'-4 1/2"	Double Hung	By Others						A		Sunroom/Kitchen, RO from top of 2 x 10 rim joist

First Floor Door Schedule										
Location	Quantity	Door Size	Description	Rough Opening Width	Rough Opening Height	Manufacturer	DP Required	DP Provided	Egress	Remarks
Exterior	1	3'-6" x 7'-0"	Hinged - Single	3'-5 1/4"	7'-0 1/2"	Henselstone				Entry/By Others
Interior	1	3'-6" x 7'-0"	Hinged - Single	3'-5 1/4"	7'-0 1/2"	Henselstone				Foyer By Others
Interior	4	1'-3" x 6'-8"	Double Bifold doors	5'-2"	6'-11"					Bedrm Closet
Interior	2	2 @ 1'-0" x 6'-8"	Single Bifold door	2'-2"	6'-11"					Closets
Interior	2	2 @ 1'-4" x 6'-8"	Single Bifold door	2'-10"	6'-11"					Laundry Rm
Interior	1	3'-0" x 6'-8"	Single hinged door	3'-2"	6'-11"					Bath
Interior	1	3'-0" x 6'-8"	Single hinged door	3'-2"	6'-11"					Bedroom
Interior	1	3'-0" x 7'-0"	Single hinged door	3'	7'-0 1/2"	Henselstone				Sunroom
Interior	1	3'-6" x 7'-0"	Single hinged door	3'-5 1/4"	7'-0 1/2"	Henselstone				Sunroom/Kitchen

2 CLERESTORY WINDOWS ABOVE KITCHEN



1 FIRST FLOOR PLAN

NOTE: ALL WINDOWS PROVIDED BY OTHERS  
ROUGH OPENING DIMENSIONS TBD

**FLOOR PLAN SHEET NOTES:**

- ALL DIMENSIONS MEASURED AS HAVEN STANDARD, FROM DRYWALL TO DRYWALL
- ALL FIRST FLOOR WALLS @ 8'-0" FROM SUBFLOOR TO FINISHED CEILING
- ALL FIRST FLOOR WINDOW HEADER HEIGHTS @ 7'-0" FROM SUBFLOOR UNLESS NOTED OTHERWISE
- ALL INTERIOR DOORS ALONG MARRIAGE LINES TO BE SHIPPED LOOSE & INSTALLED ON-SITE BY OTHERS
- ALL OPENINGS ARE ASSUMED DRYWALL OPENINGS, UNLESS NOTED OTHERWISE
- ALL WINDOW SILL LESS THAN 24" A.F.F. AND 12" ABOVE FINISH GRADE SHALL OPEN LESS THAN 4" OR HAVE A INSTALLED FALL PREVENTION DEVICE THAT COMPLIES WITH THE ASTM F 2006 OR F 2090 (BY OTHERS)

**ENGINEERING NOTES & SYMBOLS:**

**EXTERIOR SHEAR WALLS:**

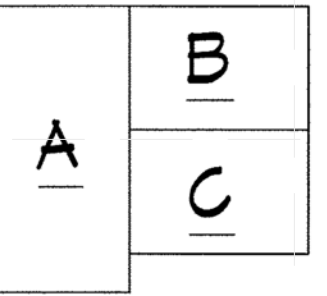
- 1/16" OSB (ZIP PANEL) SHEATHING IV 15 GA. STAPLES @ 3" O.C. EDGE SPACING & 8" O.C. FIELD SPACING.
- 1/16" OSB (ZIP PANEL) SHEATHING IV 8d NAILS @ 3" O.C. EDGE SPACING & 8" O.C. FIELD SPACING.
- \*\* FOR FIRE RATED ASSEMBLIES SUBSTITUTE 8x12" WOOD SCREWS @ 3" O.C. EDGE SPACING & 8" O.C. FIELD SPACING.
- \*\* PROVIDE BLOCKING @ ALL SHEATHING EDGES.


**INTERIOR SHEAR WALLS:**

- 1/2" GYPSUM BOTH SIDES OF WALL IV 8x1 1/2" SCREWS @ 4" O.C. EDGE SPACING & 8" O.C. FIELD SPACING PLUS CAPACITY OF FOAMSEAL ADHESIVE (ONE SIDE OF WALL).
- 1/16" OSB (ZIP PANEL) SHEATHING IV 8d NAILS @ 3" O.C. EDGE SPACING & 8" O.C. FIELD SPACING ONE SIDE OF WALL IV 1/2" GYPSUM.
- \*\* FOR FIRE RATED ASSEMBLIES SUBSTITUTE 5/8" GYP. IV 1/2" WOOD SCREWS @ 3" O.C. EDGE SPACING & 8" O.C. FIELD SPACING.

**PORTAL FRAME WALL BRACING:**

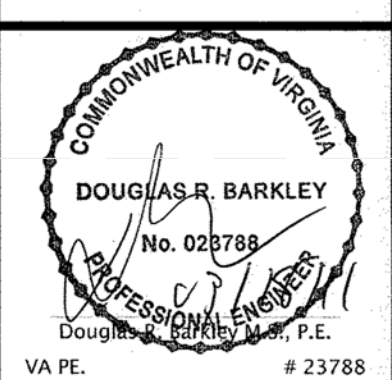
- SEE STRUCTURAL DETAIL SHEETS FOR PORTAL FRAME WALL DETAILS & INFORMATION.
- \* SIMPSON ST2122 STRAP OR 3/8" LAG BOLT IV SIMPSON SPH4/B STRAP. DOUBLE STUDS OR BLOCKING @ EA. HOLD DOWN LOCATION. (PLANT INSTALLED)
- ▲ SIMPSON ST2215 STRAP. DOUBLE STUDS OR BLOCKING @ EA. HOLD DOWN LOCATION. (PLANT INSTALLED)
- MULTIPLE LAG BOLTS TO BE SPACED 12" APART.
- DOUBLE FLOOR JOIST TO BE INSTALLED BENEATH ALL INTERIOR SHEAR WALLS.
- (4) PLY MARRIAGE WALL BEAMS TO BE GLUED & EACH MEMBER TO BE FASTENED TO THE ADJACENT MEMBER IV 8d NAILS TOP & BOTTOM @ 5" FIELD SPACING & 2" EDGE SPACING.
- SEE STRUCTURAL DETAIL SHEETS FOR STRAPPING & HOLD DOWN DETAILS.





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DOUGLAS R. BARKLEY  
No. 028788  
PROFESSIONAL ENGINEER  
Douglas R. Barkley, P.E.  
VA PE. # 23788

PRODUCTION APPROVAL SEAL

REV	DATE	DESCRIPTION
031811		
031411		Revised and sent to Engineering
031511		Customer mailbox revised
031811		Revised with other revisions
031811		Engineering

CUSTOMER REDLINES: ---  
CUSTOMER REVISIONS: ---  
PLANT REVISIONS: ---

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Norfolk, Virginia, ----

**FIRST FLOOR PLAN**

PROJECT NUMBER: ---  
ISSUED: ---  
DRAWN BY: TPF  
CHECKED BY: ---  
FILENAME: A2.1 FIRST FLOOR PLAN.DWG  
DRAWING SCALE: AS NOTED

**A2.1**

TEAM TIDEWATER VIRGINIA  
Old Dominion University and Hampton University



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SHEET TITLE  
**HAVEN SHOP DRAWINGS**

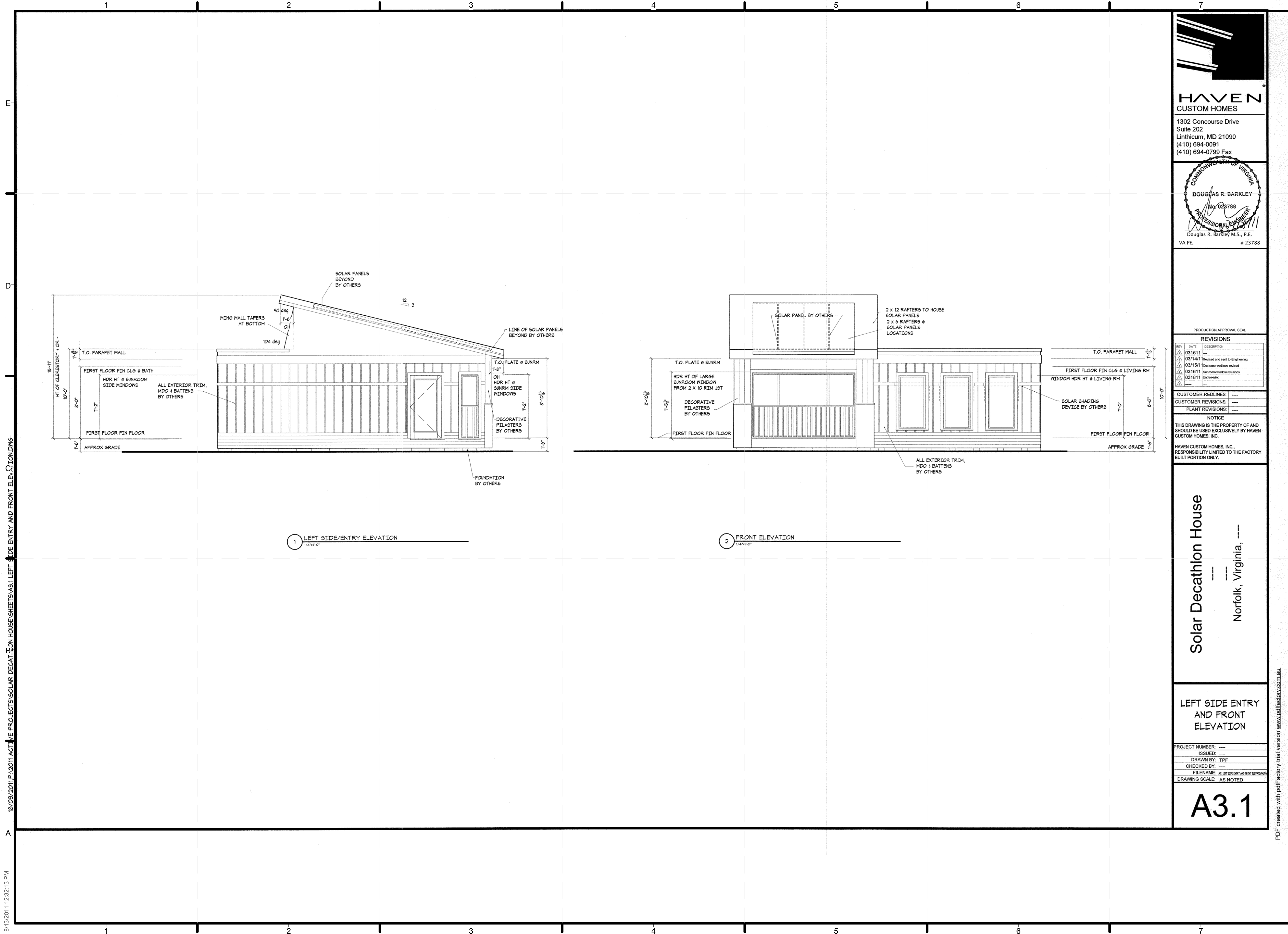
SHEET INDEX

**Z-112**

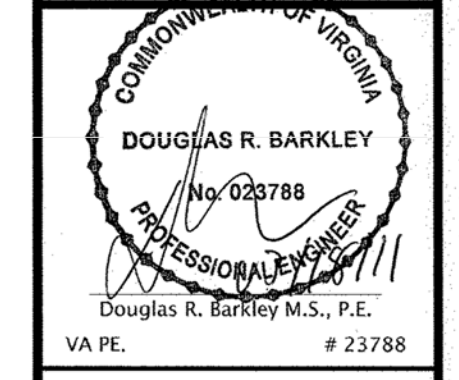
18/03/2011 12:31:40 PM 8/13/2011 12:31:40 PM

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031611		Issued
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031511		Customer redlines revised
031611		Customer redlines revised
031811		Engineering

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LEFT SIDE ENTRY AND FRONT ELEVATION

PROJECT NUMBER: ---  
ISSUED: ---  
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CHECKED BY: ---  
FILENAME: ---  
DRAWING SCALE: AS NOTED

**A3.1**

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SHEET TITLE  
**HAVEN SHOP DRAWINGS**

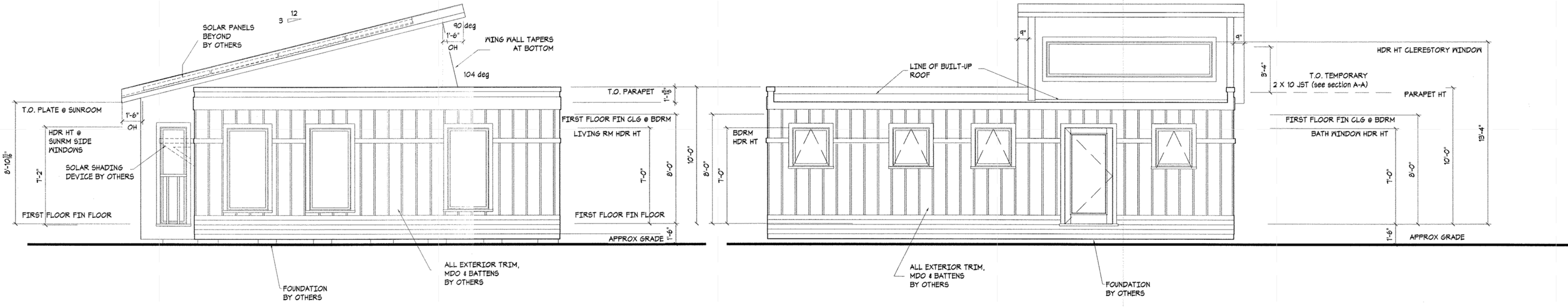
SHEET INDEX  
**Z-113**

8/13/2011 12:32:13 PM 18/09/2011 10:01 AM THE PROJECT'S SOLAR DECATHLON HOUSE SHEETS AS 1 LEFT SIDE ENTRY AND FRONT ELEVATIONS

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8/13/2011 12:33:00 PM 18/08/2011 1:30:11 ACTIVE PROJECTS\SOLAR DECATHLON HOUSES\SHEET\A3.2 RIGHT SIDE AND REAR ELEVATIONS



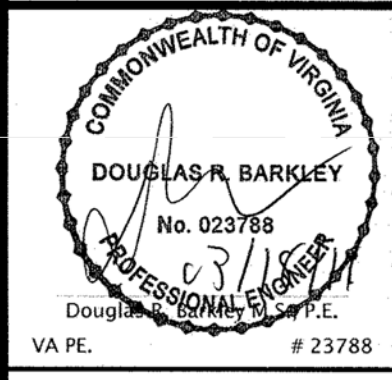
1 RIGHT SIDE ELEVATION  
1/4"=1'-0"

2 REAR ELEVATION  
1/4"=1'-0"



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**DOUGLAS R. BARKLEY**  
No. 023788  
PROFESSIONAL ENGINEER  
Douglas R. Barkley, P.E.  
VA PE. # 23788

REV	DATE	DESCRIPTION
031611		
031411		Revised and sent to Engineering
031511		Customer redline revised
031611		Customer window revisions
031811		Engineering

CUSTOMER REDLINES: ---  
CUSTOMER REVISIONS: ---  
PLANT REVISIONS: ---

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RIGHT SIDE AND REAR ELEVATION

PROJECT NUMBER:	---
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CHECKED BY:	---
FILENAME:	A3.2 RIGHT SIDE AND REAR ELEVATIONS
DRAWING SCALE:	AS NOTED

# A3.2

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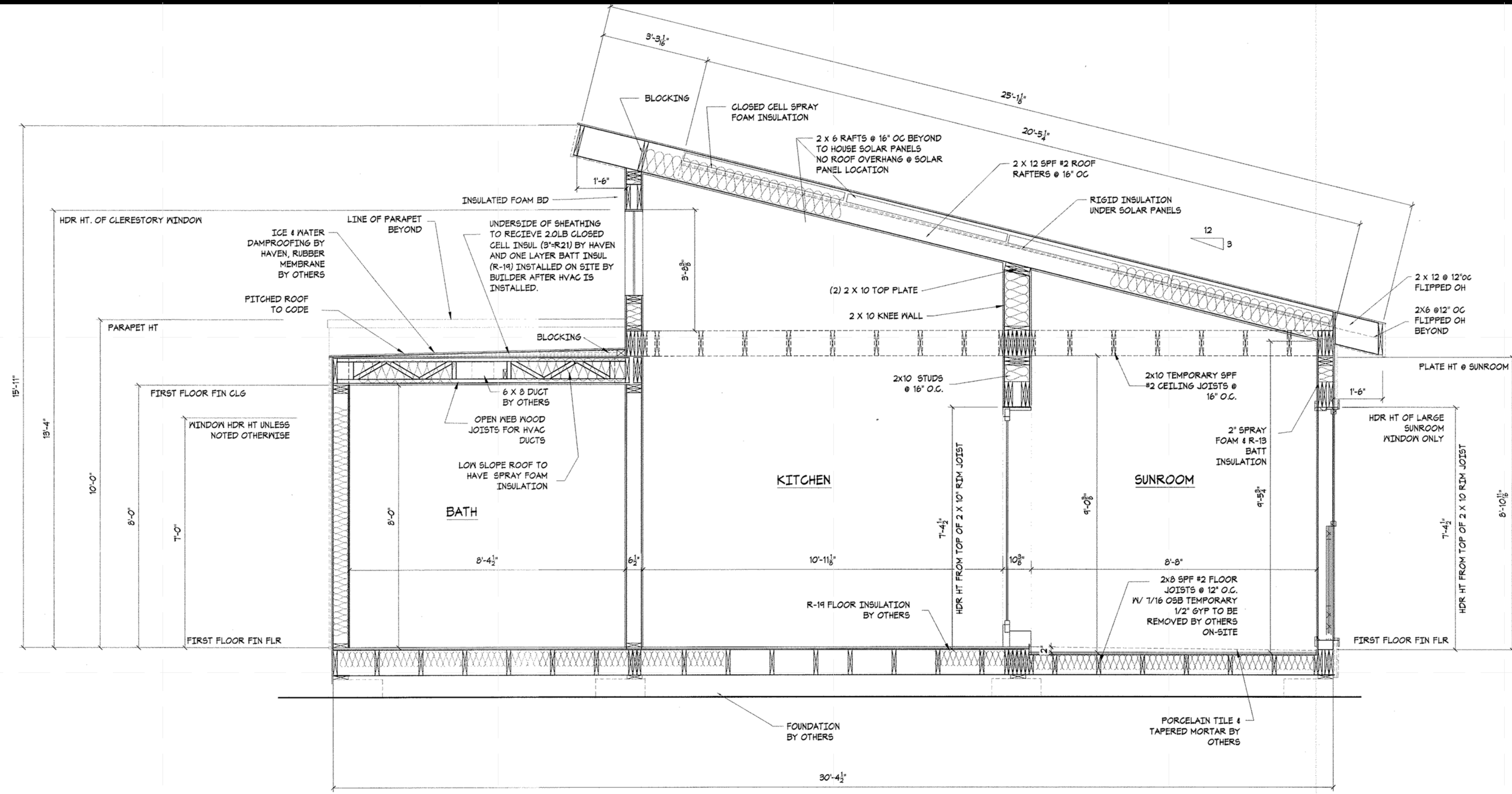
SHEET TITLE  
**HAVEN SHOP DRAWINGS**

SHEET INDEX

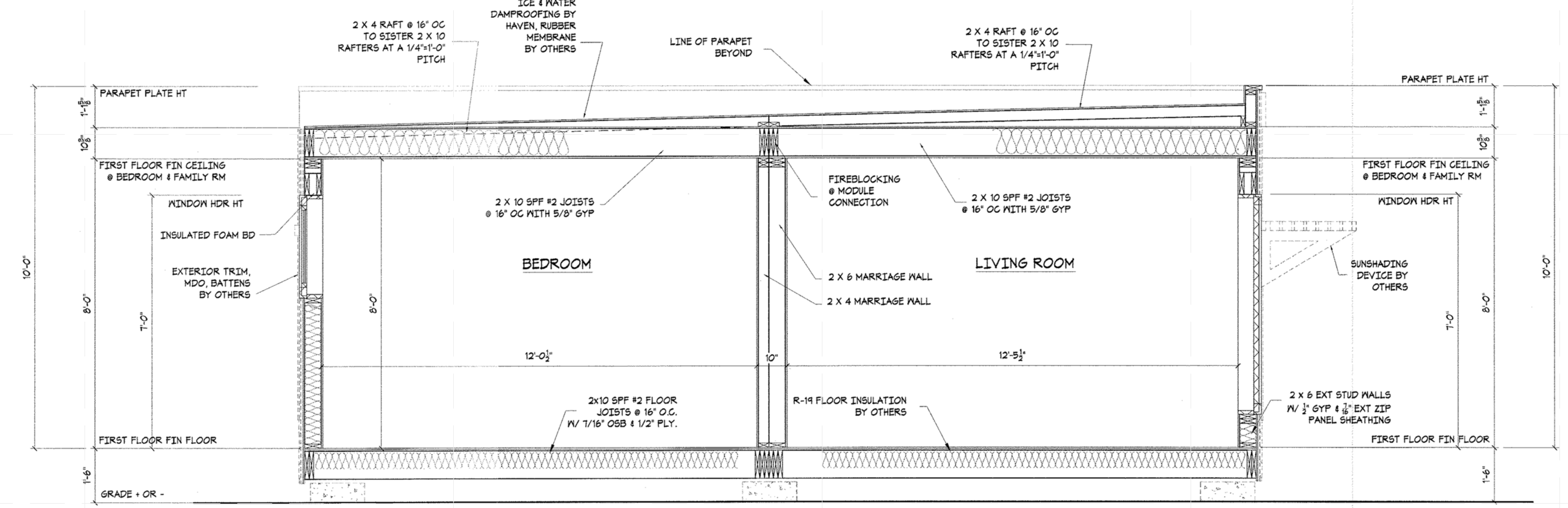
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8/13/2011 12:33:37 PM 18/09/2011 1:30:11 ACTIVE PROJECT/SOLAR DECATHLON HOUSE SHEETS V.1 SECTION A-A.DWG



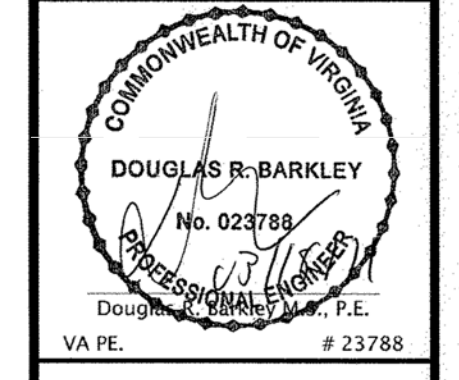
1 SECTION A-A  
1/2"=1'-0"



2 SECTION B-B  
1/2"=1'-0"



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REVISIONS  
REV. DATE DESCRIPTION  
031611  
03/14/11  
031511  
031611  
031811

REV	DATE	DESCRIPTION
031611		
03/14/11		Revised and sent to Engineering
031511		Customer address revised
031611		Sunroom window revisions
031811		Engineering

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CUSTOMER REVISIONS: ---  
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SECTION A-A AND SECTION B-B  
PROJECT NUMBER: ---  
ISSUED: ---  
DRAWN BY: TPF  
CHECKED BY: ---  
FILENAME: A5.1 SECTION A-A.DWG  
DRAWING SCALE: AS NOTED

**A5.1**

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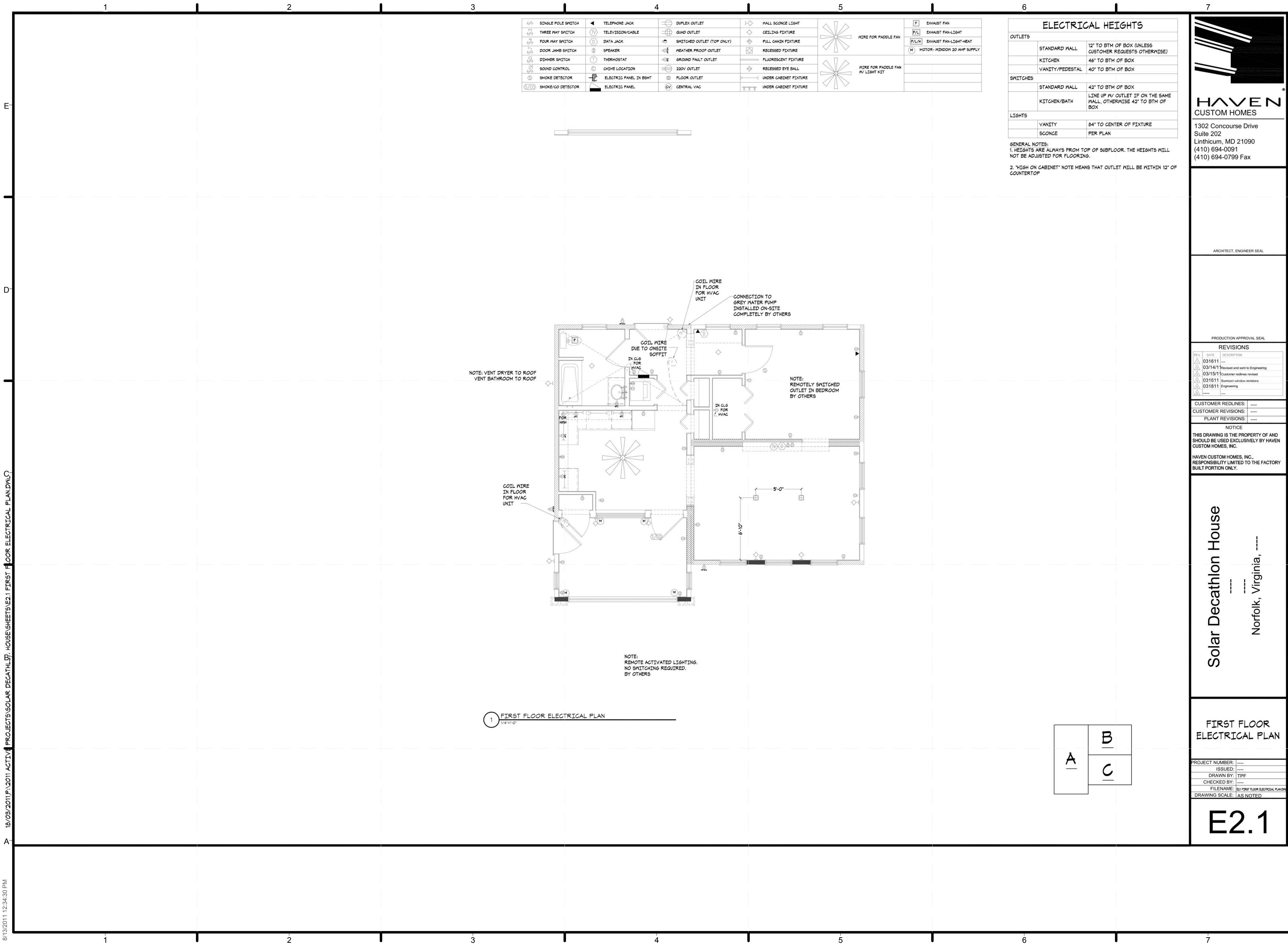
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SHEET TITLE  
**HAVEN SHOP DRAWINGS**

SHEET INDEX  
**Z-115**

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1	SINGLE POLE SWITCH	1	TELEPHONE JACK	1	DUPLEX OUTLET	1	WALL SCONCE LIGHT	1	EXHAUST FAN
2	THREE WAY SWITCH	2	TELEVISION/CABLE	2	GUARD OUTLET	2	CEILING FIXTURE	2	EXHAUST FAN-LIGHT
3	FOUR WAY SWITCH	3	DATA JACK	3	SWITCHED OUTLET (TOP ONLY)	3	PULL CHAIN FIXTURE	3	EXHAUST FAN-LIGHT-HEAT
4	DOOR JAMB SWITCH	4	SPEAKER	4	WEATHER PROOF OUTLET	4	RECESSED FIXTURE	4	MOTOR-INDOOR 20 AMP SUPPLY
5	DOORER SWITCH	5	THERMOSTAT	5	GROUND FAULT OUTLET	5	FLUORESCENT FIXTURE	5	
6	SOUND CONTROL	6	CHIME LOCATION	6	220V OUTLET	6	RECESSED EYE BALL	6	
7	SMOKE DETECTOR	7	ELECTRIC PANEL IN BSMT	7	FLOOR OUTLET	7	UNDER CABINET FIXTURE	7	
8	SMOKE/CO DETECTOR	8	ELECTRIC PANEL	8	CENTRAL VAC	8	UNDER CABINET FIXTURE	8	

ELECTRICAL HEIGHTS	
OUTLETS	
STANDARD WALL	12" TO BTM OF BOX (UNLESS CUSTOMER REQUESTS OTHERWISE)
KITCHEN	46" TO BTM OF BOX
VANITY/PEDESTAL	40" TO BTM OF BOX
SWITCHES	
STANDARD WALL	42" TO BTM OF BOX
KITCHEN/BATH	LINE UP W/ OUTLET IF ON THE SAME WALL, OTHERWISE 42" TO BTM OF BOX
LIGHTS	
VANITY	84" TO CENTER OF FIXTURE
SCONCE	PER PLAN

GENERAL NOTES:  
 1. HEIGHTS ARE ALWAYS FROM TOP OF SUBFLOOR. THE HEIGHTS WILL NOT BE ADJUSTED FOR FLOORING.  
 2. "HIGH ON CABINET" NOTE MEANS THAT OUTLET WILL BE WITHIN 12" OF COUNTERTOP

1 FIRST FLOOR ELECTRICAL PLAN  
 1/4"=1'-0"

A B  
 C

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ARCHITECT, ENGINEER SEAL

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REV	DATE	DESCRIPTION
031611		
03/14/11		Revised and sent to Engineering
03/15/11		Customer redlines revised
03/16/11		Bedroom window revisions
03/18/11		Engineering

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 CUSTOMER REVISIONS: ---  
 PLANT REVISIONS: ---  
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FIRST FLOOR ELECTRICAL PLAN

PROJECT NUMBER	---
ISSUED	---
DRAWN BY:	TPF
CHECKED BY:	---
FILENAME:	01 FIRST FLOOR ELECTRICAL PLAN
DRAWING SCALE:	AS NOTED

**E2.1**

**TEAM TIDEWATER VIRGINIA**  
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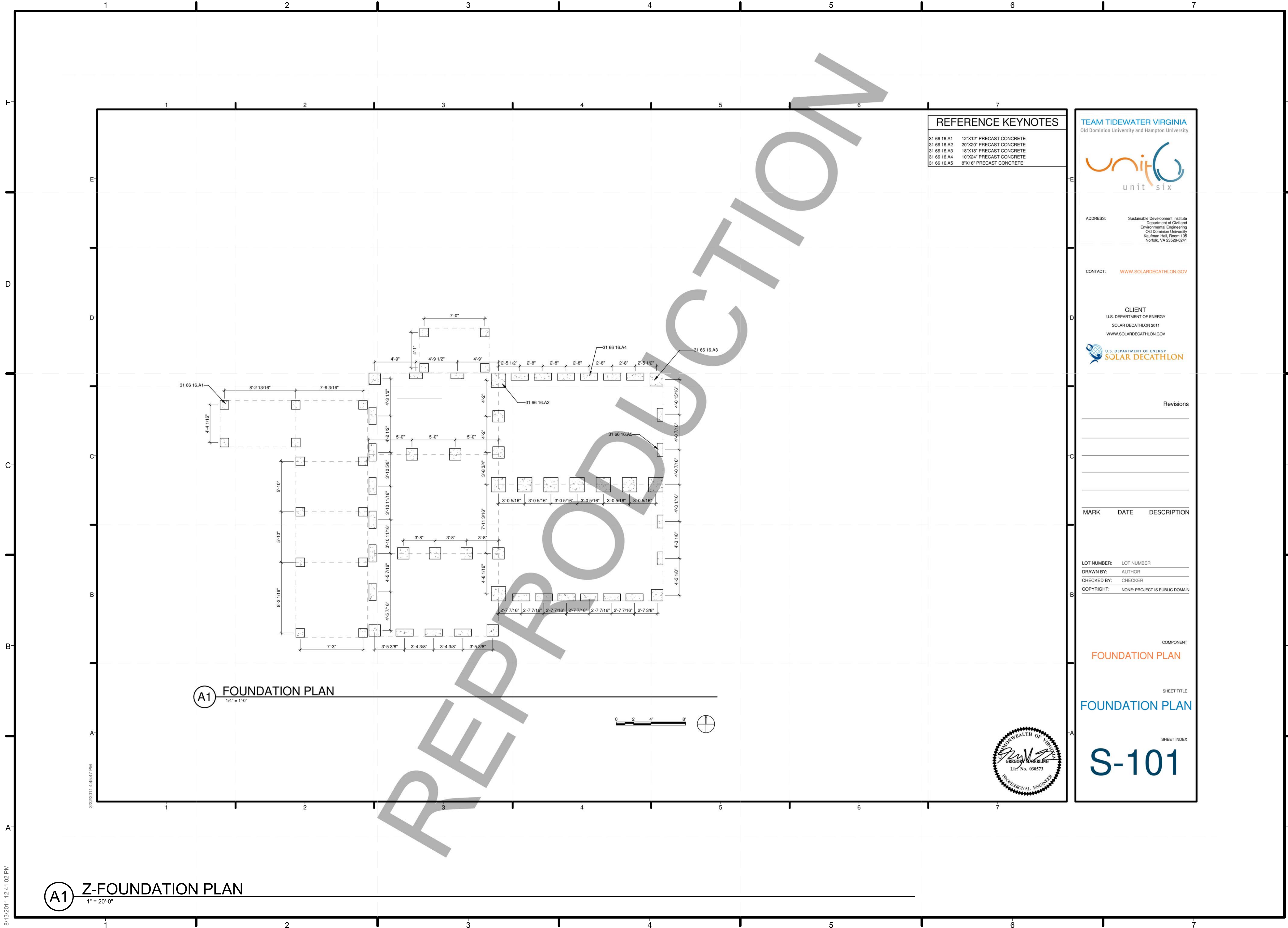
SHEET TITLE  
**HAVEN SHOP DRAWINGS**

SHEET INDEX

**Z-116**

8/13/2011 12:34:30 PM 18/03/2011 12:34:30 PM PROJECT\SOLAR DECATHLON\HOUSE SHEETS\E2.1 FIRST FLOOR ELECTRICAL PLAN.DWG





**REFERENCE KEYNOTES**

- 31 66 16.A1 12"x12" PRECAST CONCRETE
- 31 66 16.A2 20"x20" PRECAST CONCRETE
- 31 66 16.A3 18"x18" PRECAST CONCRETE
- 31 66 16.A4 10"x24" PRECAST CONCRETE
- 31 66 16.A5 8"x16" PRECAST CONCRETE

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COMPONENT  
**FOUNDATION PLAN**

SHEET TITLE  
**FOUNDATION PLAN**

SHEET INDEX  
**S-101**



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



**(A1) Z-FOUNDATION PLAN**  
1" = 20'-0"

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SHEET TITLE  
**FOUNDATION PLAN**

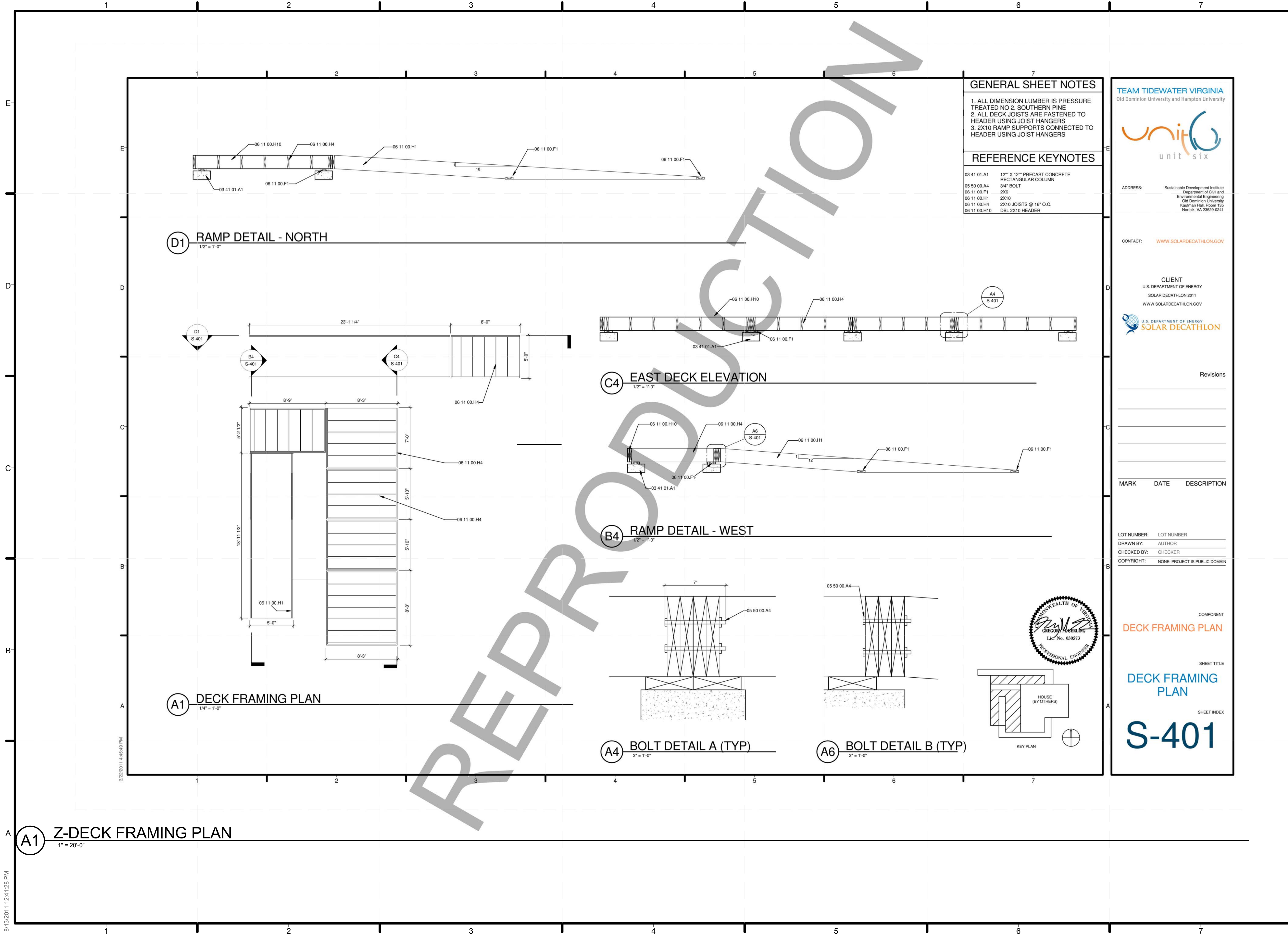
SHEET INDEX

**Z-201**

8/13/2011 12:41:02 PM

3/22/2011 4:56:47 PM





**GENERAL SHEET NOTES**

1. ALL DIMENSION LUMBER IS PRESSURE TREATED NO 2 SOUTHERN PINE
2. ALL DECK JOISTS ARE FASTENED TO HEADER USING JOIST HANGERS
3. 2X10 RAMP SUPPORTS CONNECTED TO HEADER USING JOIST HANGERS

**REFERENCE KEYNOTES**

03 41 01 A1	12" X 12" PRECAST CONCRETE RECTANGULAR COLUMN
05 50 00 A4	3/4" BOLT
06 11 00 F1	2X8
06 11 00 H1	2X10
06 11 00 H4	2X10 JOISTS @ 16" O.C.
06 11 00 H10	DBL 2X10 HEADER

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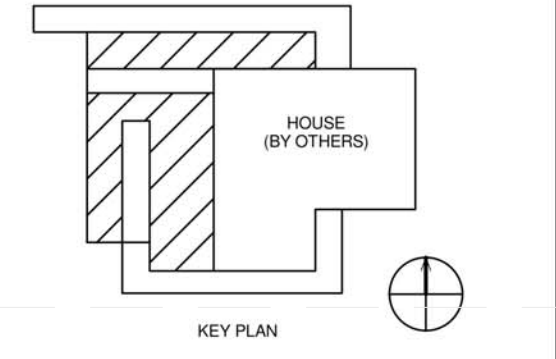
MARK	DATE	DESCRIPTION

LOT NUMBER: LOT NUMBER  
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COMPONENT  
**DECK FRAMING PLAN**

SHEET TITLE  
**DECK FRAMING PLAN**

SHEET INDEX  
**S-401**



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COMPONENT  
**DECK FRAMING PLAN**

SHEET TITLE  
**DECK FRAMING PLAN**

SHEET INDEX  
**S-401**

SHEET TITLE  
**DECK FRAMING PLAN**

SHEET INDEX

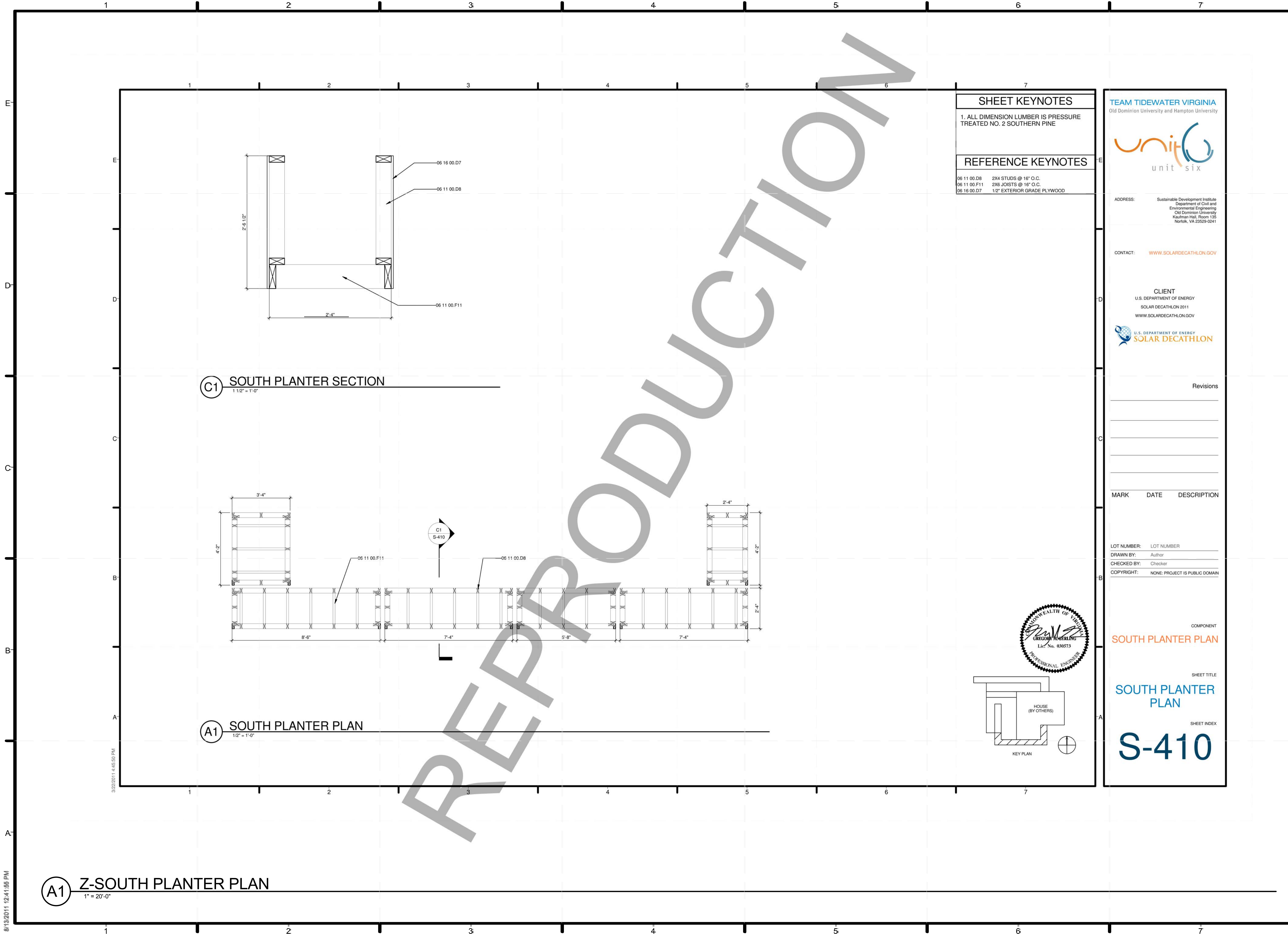
**Z-202**

**A1 Z-DECK FRAMING PLAN**  
1" = 20'-0"

8/13/2011 12:41:28 PM

3/22/2011 4:55:40 PM





SHEET KEYNOTES	
1. ALL DIMENSION LUMBER IS PRESSURE TREATED NO. 2 SOUTHERN PINE	
REFERENCE KEYNOTES	
06 11 00.D8	2X4 STUDS @ 16" O.C.
06 11 00.F11	2X6 JOISTS @ 16" O.C.
06 16 00.D7	1/2" EXTERIOR GRADE PLYWOOD

**TEAM TIDEWATER VIRGINIA**  
Old Dominion University and Hampton University

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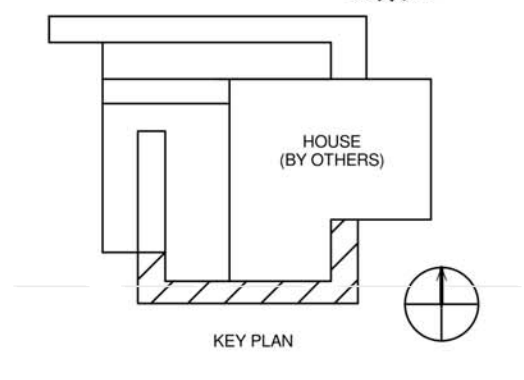


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COMPONENT  
**SOUTH PLANTER PLAN**

SHEET TITLE  
**SOUTH PLANTER PLAN**

SHEET INDEX  
**S-410**

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SHEET TITLE:  
**SOUTH PLANTER PLAN**

SHEET INDEX:

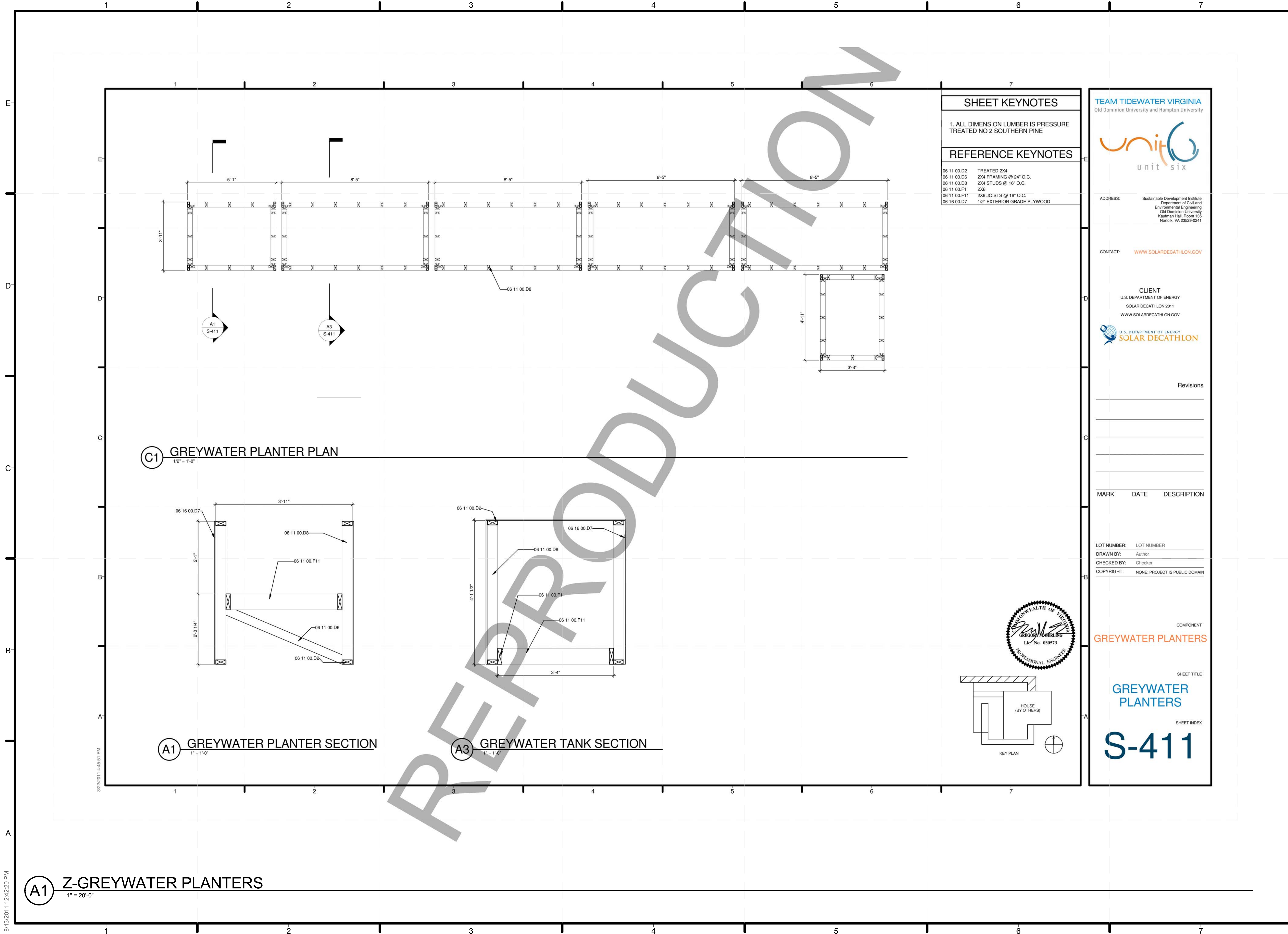
**Z-203**

**A1 Z-SOUTH PLANTER PLAN**  
1" = 20'-0"

8/13/2011 12:41:05 PM

REPRODUCTION





SHEET KEYNOTES	
1. ALL DIMENSION LUMBER IS PRESSURE TREATED NO 2 SOUTHERN PINE	
REFERENCE KEYNOTES	
06 11 00.D2	TREATED 2X4
06 11 00.D6	2X4 FRAMING @ 24" O.C.
06 11 00.D8	2X4 STUDS @ 16" O.C.
06 11 00.F1	2X6
06 11 00.F11	2X6 JOISTS @ 16" O.C.
06 16 00.D7	1/2" EXTERIOR GRADE PLYWOOD

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COMPONENT  
**GREYWATER PLANTERS**

SHEET TITLE  
**GREYWATER PLANTERS**

SHEET INDEX  
**S-411**

KEY PLAN



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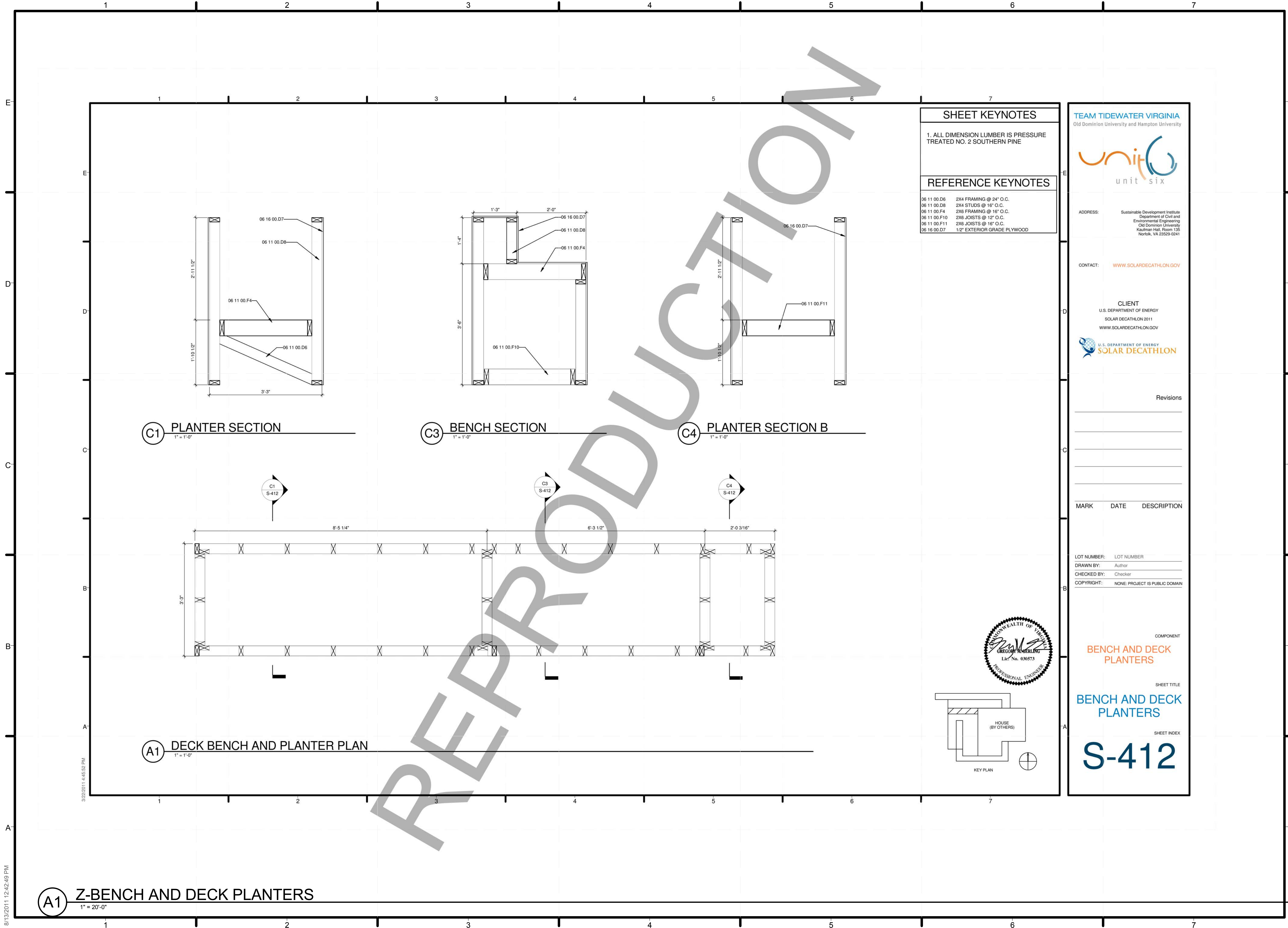
SHEET TITLE  
**GREYWATER PLANTERS**

SHEET INDEX  
**Z-204**

8/13/2011 12:42:20 PM

3/22/2011 4:45:51 PM





**SHEET KEYNOTES**

1. ALL DIMENSION LUMBER IS PRESSURE TREATED NO. 2 SOUTHERN PINE

**REFERENCE KEYNOTES**

06 11 00.D6	2X4 FRAMING @ 24" O.C.
06 11 00.D8	2X4 STUDS @ 16" O.C.
06 11 00.F4	2X6 FRAMING @ 16" O.C.
06 11 00.F10	2X6 JOISTS @ 12" O.C.
06 11 00.F11	2X6 JOISTS @ 16" O.C.
06 16 00.D7	1/2" EXTERIOR GRADE PLYWOOD

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COMPONENT  
**BENCH AND DECK PLANTERS**

SHEET TITLE  
**BENCH AND DECK PLANTERS**

SHEET INDEX  
**S-412**

PROFESSIONAL ENGINEER  
STATE OF VIRGINIA  
CREATED: 8/13/2011 12:42:49 PM  
Lic. No. 030573

HOUSE (BY OTHERS)  
KEY PLAN

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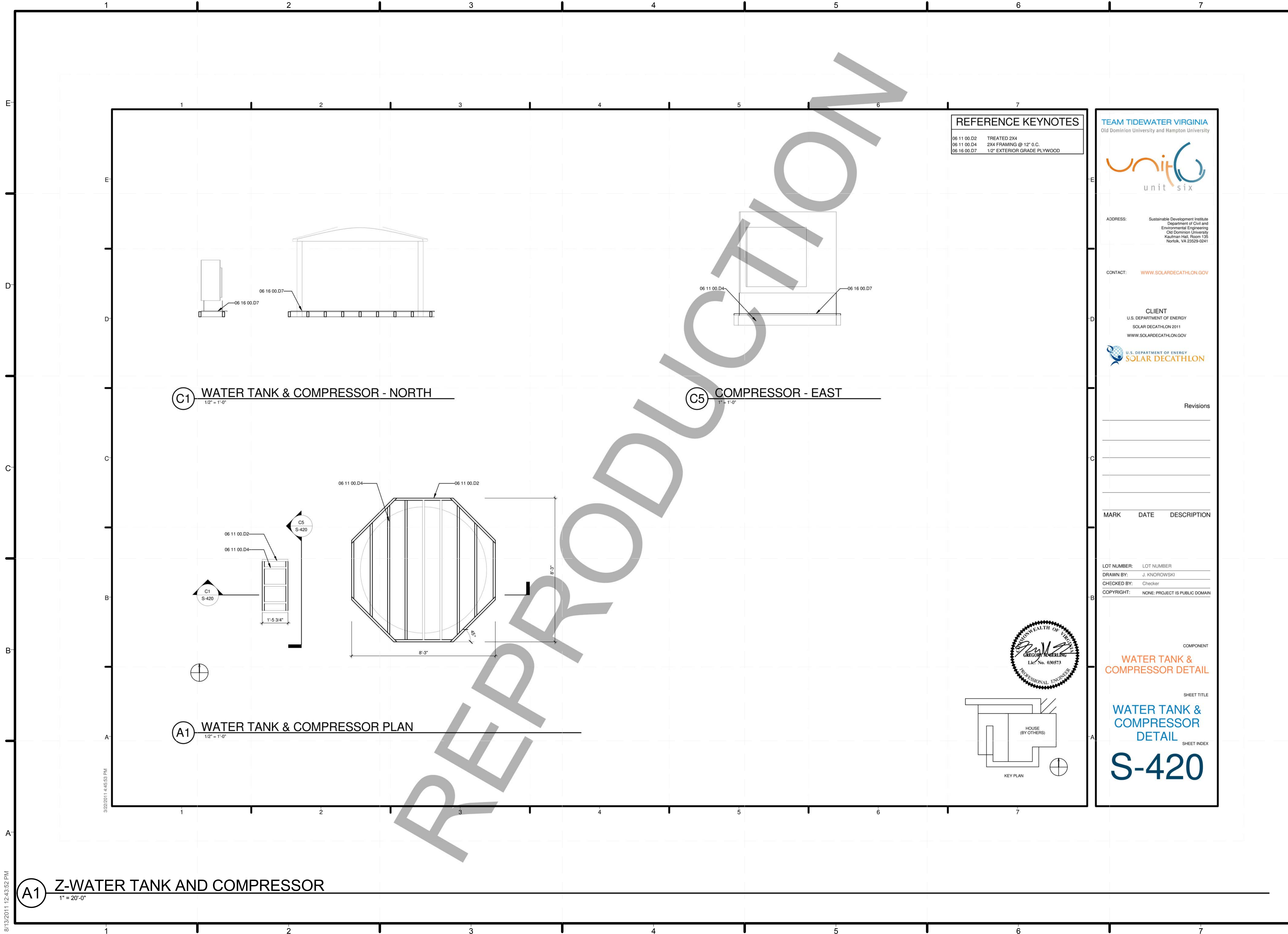
SHEET TITLE  
**BENCH AND DECK PLANTERS**

SHEET INDEX  
**Z-205**

8/13/2011 12:42:49 PM

**(A1) Z-BENCH AND DECK PLANTERS**  
1" = 20'-0"





**REFERENCE KEYNOTES**

06 11 00.D2	TREATED 2X4
06 11 00.D4	2X4 FRAMING @ 12" O.C.
06 16 00.D7	1/2" EXTERIOR GRADE PLYWOOD

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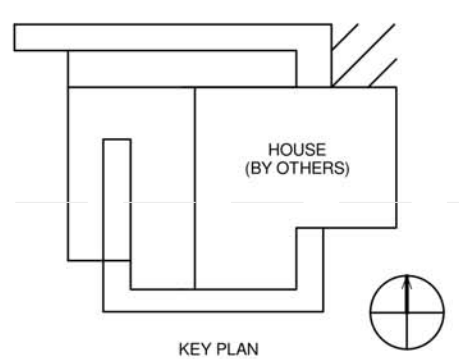
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COMPONENT  
**WATER TANK & COMPRESSOR DETAIL**

SHEET TITLE  
**WATER TANK & COMPRESSOR DETAIL**

SHEET INDEX  
**S-420**

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SHEET TITLE  
**WATER TANK & COMPRESSOR**

SHEET INDEX

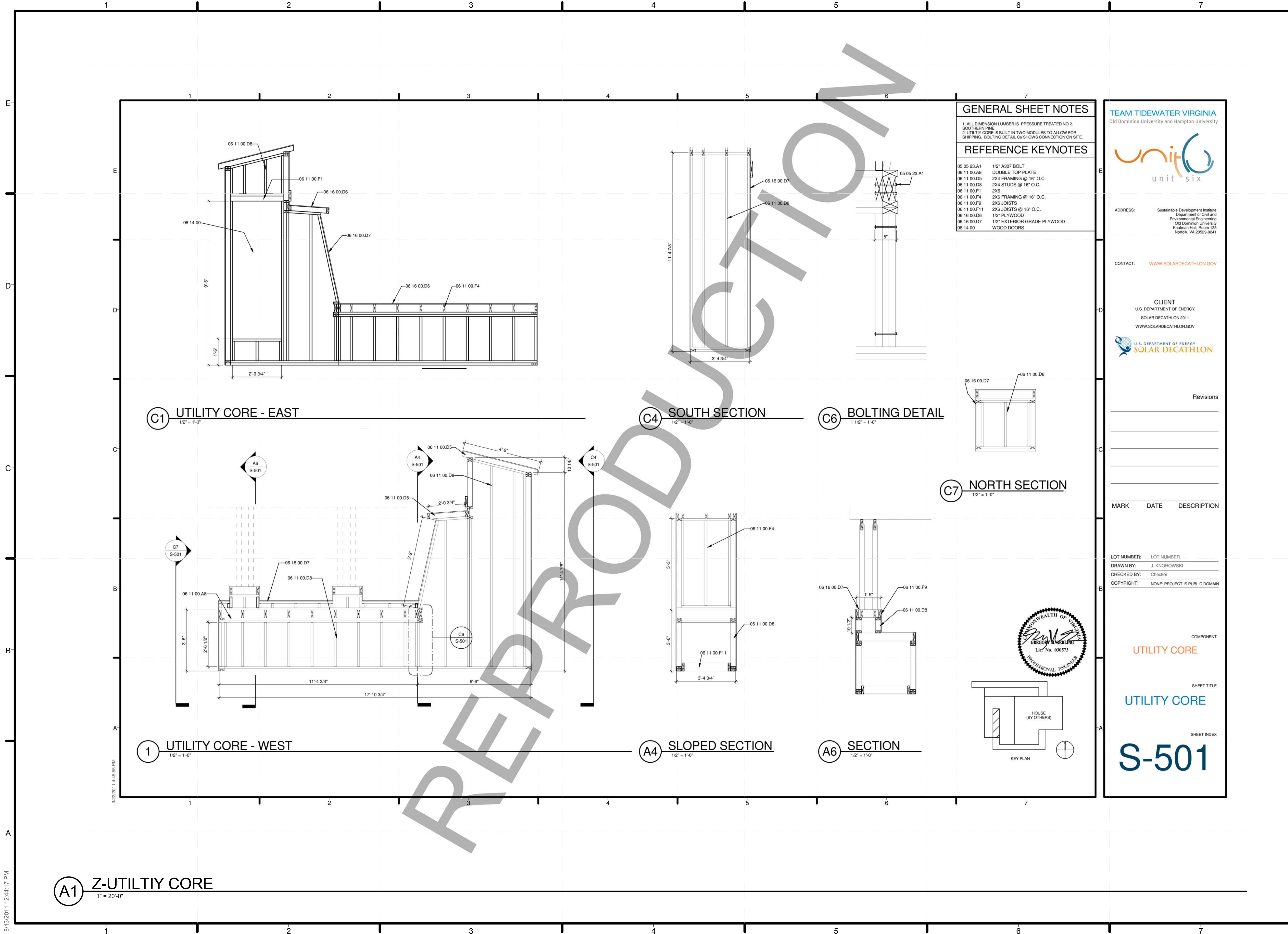
**Z-206**

**A1 Z-WATER TANK AND COMPRESSOR**  
1" = 20'-0"

8/13/2011 12:43:52 PM

3/22/2011 4:45:53 PM





**GENERAL SHEET NOTES**

1. ALL DIMENSION LUMBER IS PRESSURE TREATED NO 2 SOUTHERN PINE  
 2. UTILITY CORE IS BUILT IN TWO MODULES TO ALLOW FOR SHIPPING. BOLTING DETAIL C6 SHOWS CONNECTION ON SITE.

**REFERENCE KEYNOTES**

- 05 05 23 A1 1/2" A307 BOLT
- 06 11 00 A8 DOUBLE TOP PLATE
- 06 11 00 D5 2X4 FRAMING @ 16" O.C.
- 06 11 00 D8 2X4 STUDS @ 16" O.C.
- 06 11 00 F1 2X6
- 06 11 00 F4 2X6 FRAMING @ 16" O.C.
- 06 11 00 F9 2X6 JOISTS
- 06 11 00 F11 2X6 JOISTS @ 16" O.C.
- 06 16 00 D6 1/2" PLYWOOD
- 06 16 00 D7 1/2" EXTERIOR GRADE PLYWOOD
- 06 14 00 WOOD DOORS

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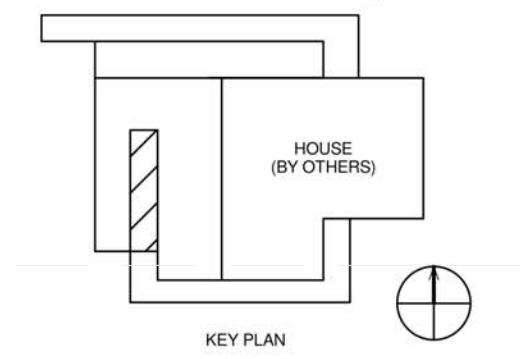
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COMPONENT  
**UTILITY CORE**

SHEET TITLE  
**UTILITY CORE**

SHEET INDEX  
**S-501**

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SHEET TITLE  
**UTILITY CORE**

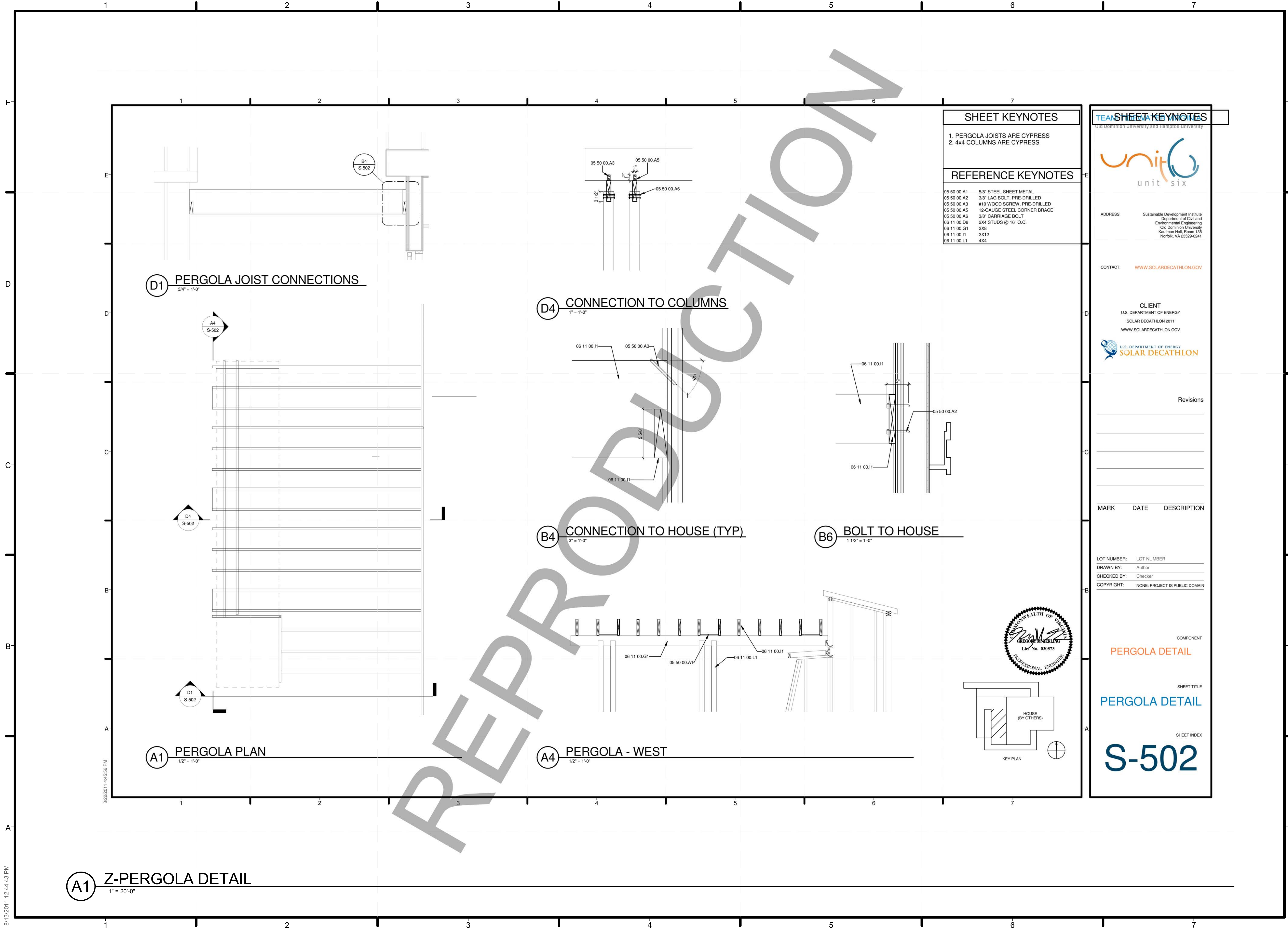
SHEET INDEX

**Z-207**

**A1 Z-UTILITY CORE**  
 1" = 20'-0"

8/13/2011 12:44:17 PM





SHEET KEYNOTES	
1. PERGOLA JOISTS ARE CYPRESS	
2. 4x4 COLUMNS ARE CYPRESS	
REFERENCE KEYNOTES	
05 50 00.A1	5/8" STEEL SHEET METAL
05 50 00.A2	3/8" LAG BOLT, PRE-DRILLED
05 50 00.A3	#10 WOOD SCREW, PRE-DRILLED
05 50 00.A5	12-GAUGE STEEL CORNER BRACE
05 50 00.A6	3/8" CARRIAGE BOLT
06 11 00.D8	2X4 STUDS @ 16" O.C.
06 11 00.G1	2X8
06 11 00.I1	2X12
06 11 00.L1	4X4

**TEAM SHEET KEYNOTES**  
Old Dominion University and Hampton University

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COMPONENT  
**PERGOLA DETAIL**

SHEET TITLE  
**PERGOLA DETAIL**

SHEET INDEX  
**S-502**

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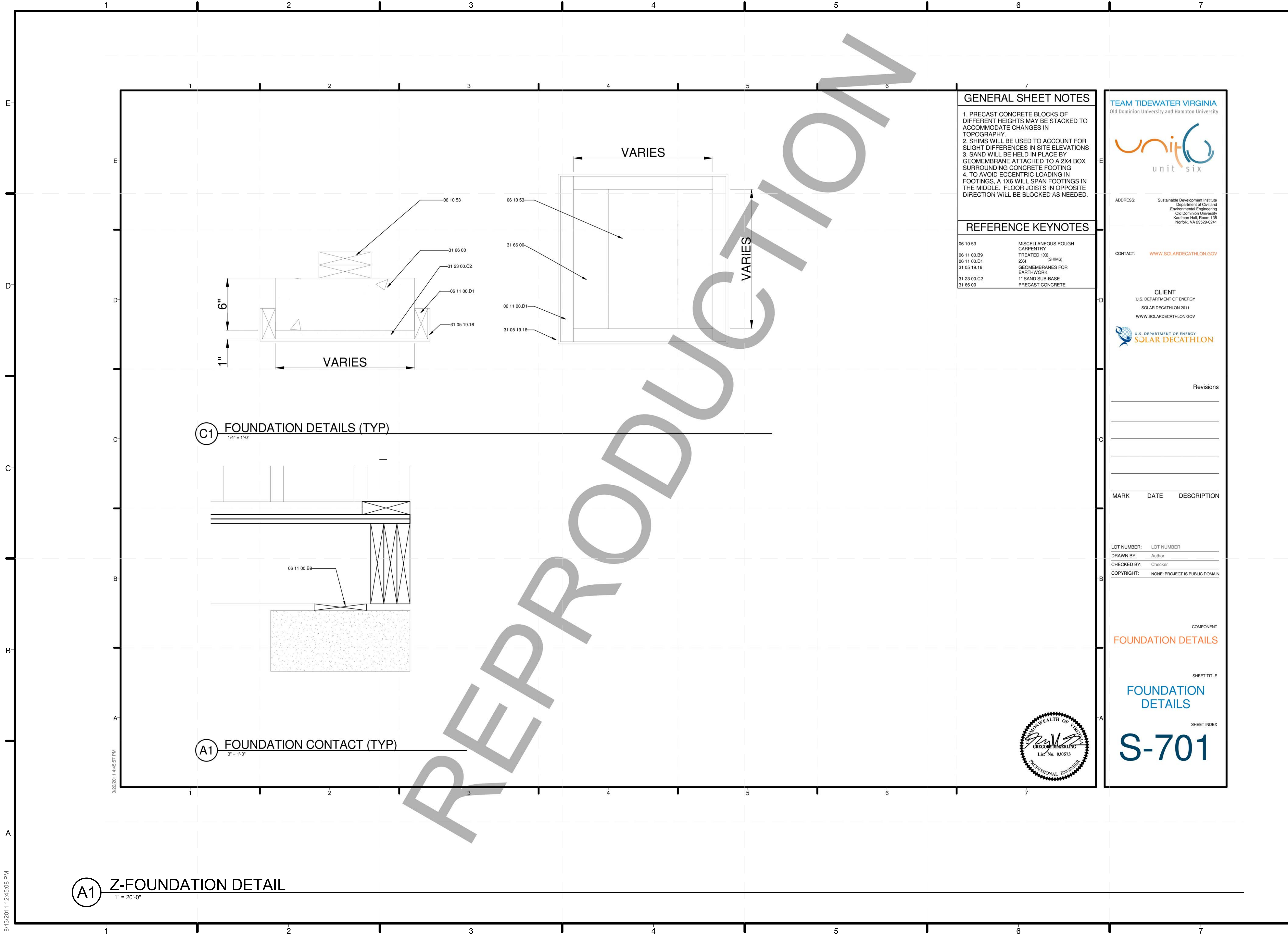
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SHEET TITLE  
**PERGOLA DETAIL**

SHEET INDEX  
**Z-208**

8/13/2011 12:44:43 PM





**(C1) FOUNDATION DETAILS (TYP)**  
1/4" = 1'-0"

**(A1) FOUNDATION CONTACT (TYP)**  
3" = 1'-0"

**(A1) Z-FOUNDATION DETAIL**  
1" = 20'-0"

**GENERAL SHEET NOTES**

1. PRECAST CONCRETE BLOCKS OF DIFFERENT HEIGHTS MAY BE STACKED TO ACCOMMODATE CHANGES IN TOPOGRAPHY.
2. SHIMS WILL BE USED TO ACCOUNT FOR SLIGHT DIFFERENCES IN SITE ELEVATIONS
3. SAND WILL BE HELD IN PLACE BY GEOMEMBRANE ATTACHED TO A 2X4 BOX SURROUNDING CONCRETE FOOTING
4. TO AVOID ECCENTRIC LOADING IN FOOTINGS, A 1X6 WILL SPAN FOOTINGS IN THE MIDDLE. FLOOR JOISTS IN OPPOSITE DIRECTION WILL BE BLOCKED AS NEEDED.

**REFERENCE KEYNOTES**

06 10 53	MISCELLANEOUS ROUGH CARPENTRY
06 11 00.B9	TREATED 1X6
06 11 00.D1	2X4 SHIMS
31 05 19.16	GEOMEMBRANES FOR EARTHWORK
31 23 00.C2	1" SAND SUB-BASE
31 66 00	PRECAST CONCRETE

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COMPONENT  
**FOUNDATION DETAILS**

SHEET TITLE  
**FOUNDATION DETAILS**

SHEET INDEX  
**S-701**



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SHEET TITLE  
**FOUNDATION DETAILS**

SHEET INDEX

**Z-209**

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