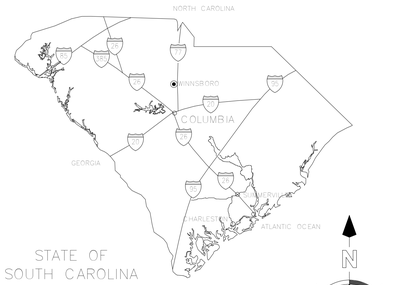
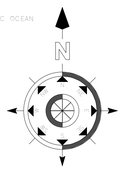
UNIVERSITY SOUTH CAROLINA
USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

CONSTRUCTION DOCUMENTS
MAY 31, 2013

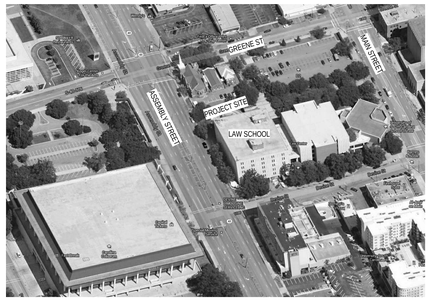
PROJECT NO: H27-Z010

STATE LOCATION MAP





VICINITY LOCATION MAP (7499 PARKLANE ROAD, COLUMBIA, SC)



APPLICABLE CODES

PROJECTS DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:

1. INTERNATIONAL BUILDING CODE, 2006 ED.
2. INTERNATIONAL FIRE CODE, 2006 ED.
3. INTERNATIONAL ENERGY CONSERVATION CODE, 2006 ED.
4. INTERNATIONAL FUEL GAS CODE, 2006 ED.
5. INTERNATIONAL MECHANICAL CODE, 2006 ED.
6. INTERNATIONAL PLUMBING CODE, 2006 ED.
7. ICC ELECTRICAL CODE, ADMINISTRATIVE PROVISIONS, 2000 ED. INCLUDING THE 2001 MODIFICATIONS
8. NATIONAL ELECTRICAL CODE, NFPA 70, 2008 ED.
9. NATIONAL ELECTRICAL SAFETY CODE, ANSI-C2-2008 ED.
10. STATE FIRE MARSHALL REGULATIONS, LATEST EDITION
11. SOUTH CAROLINA ELEVATOR CODE AND REGULATIONS, LATEST EDITION
12. ASHRAE/IESNA 90.1 - 2004, ENERGY EFFICIENT DESIGN OF NEW BUILDINGS
13. ICC/ANSI-A117.1 - 2003, ACCESSIBLE AND USABLE BUILDING AND FACILITIES

PROJECT ADD ALTERNATES

FOLLOWING IS A LIST OF THE ADD ALTERNATES INCLUDED WITHIN THESE DOCUMENTS:

ADD ALTERNATE #1: REPAIR AND PAINT PRECAST CONCRETE WALLS WITHIN PLAZA. REPAIRS CONSIST OF PATCHING AND REPAIR OF CONCRETE WALLS AND REFINISHING WITH PAINT. REFER TO SPECIFICATIONS.

INDEX OF DRAWINGS

MATERIAL DESIGNATIONS

COMPACTED EARTH	WOOD (ROUGH)
POUROUS FILL (STONE OR GRAVEL)	WOOD (FINISHED)
CONCRETE	PLYWOOD
CONCRETE MASONRY UNIT	BATT INSULATION
BRICK	GYPSUM BOARD
SAND, PLASTER, CEMENT, GROUT	RIGID INSULATION
STEEL	STONE VENEER

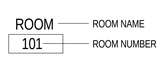
ABBREVIATIONS

∠	ANGLE	NIC	NOT IN CONTRACT
@	AT	NOM	NOMINAL
AFF	ABOVE FINISH FLOOR	NTS	NOT TO SCALE
ALUM	ALUMINUM	OC	ON CENTER
ARCH	ARCHITECTURAL	OD	OUTSIDE DIAMETER
BLKG	BLOCKING	OPNG	OPENING
℄	CENTER LINE	OPP	OPPOSITE
CJ	CONTROL JOINT	P	PAINT
CLG	CEILING	PL	PLATE, PROPERTY LINE
CTR	CENTER	PR	PAIR
CONC	CONCRETE	R, RAD	RADIUS
CMU	CONCRETE MASONRY UNIT	REQD	REQUIRED
CONT	CONTINUOUS	RD	ROOF DRAIN
DIA	DIAMETER	RO	ROUGH OPENING
DS	DOWNSPOUT	SF	SQUARE FEET
DWG	DRAWING	SIM	SIMILAR
EXT	EXTERIOR	SPEC	SPECIFICATIONS
EXIST	EXISTING	STD	STANDARD
EA	EACH	STR	STRUCTURAL
EJ	EXPANSION JOINT	SUSP	SUSPENDED
ELEC	ELECTRICAL	TBD	TO BE DETERMINED
EL	ELEVATION	TBS	TO BE SELECTED
ELEV	ELEVATOR	TOS	TOP OF STEEL
EQUIP	EQUIPMENT	TOP	TOP OF PLATE
EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
FIN	FINISH	UNO	UNLESS NOTED OTHERWISE
FD	FLOOR DRAIN	VERT	VERTICAL
FOF	FACE OF FINISH	VCT	VINYL COMPOSITION TILE
FOS	FACE OF STUD	W/	WITH
FR	FIRE RETARDANT	WC	WATER CLOSET
FV	FIELD VERIFY	WR	WATER RESISTANT
GA	GAUGE	WWF	WELDED WIRE FABRIC
GYP BD	GYPSUM BOARD	WD	WOOD
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		
HT	HEIGHT		
HVAC	HEATING VENTILATION AIR-CONDITIONING		
ID	INSIDE DIAMETER		
INSUL	INSULATION		
JT	JOINT		
LAV	LAVATORY		
MAX	MAXIMUM		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MO	MASONRY OPENING		

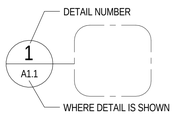
ARCHITECTURAL SYMBOLS

DRAWING TITLE REFERENCE

ROOM TAG REFERENCE



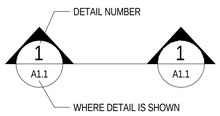
PLAN DETAIL REFERENCE



DOOR TAG REFERENCE

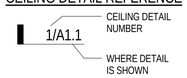
WINDOW/LOUVER TAG REFERENCE

BUILDING SECTION/WALL SECTION REFERENCE

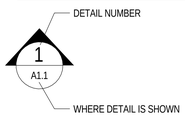


WALL TAG REFERENCE

CEILING DETAIL REFERENCE



EXTERIOR ELEVATION REFERENCE



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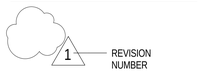

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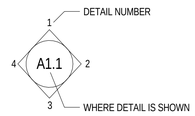

GENERAL CONSTRUCTION DOCUMENT NOTES

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 0547 p
803 779 4464 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal: STATE OF SOUTH CAROLINA — The Boudreaux Group, Inc. — Columbia, South Carolina — 8-77010 — REGISTERED ARCHITECTS

A/E Seal: STATE OF SOUTH CAROLINA — DAVID WIESENDANGER — Columbia, SC — No. 8727 — REGISTERED ARCHITECT

UNIVERSITY SOUTH CAROLINA
USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS
Law School Address:
701 Main Street
Columbia, South Carolina 29208

No.	Description	Date

Project Number H27.Z010
Drawn By Author
Checked By Checker
Date MAY 31, 2013

Drawing Title.
TITLE SHEET, CODE ANALYSIS, LOCATION MAP, SYMBOLS, INDEX OF DRAWINGS

Drawing No.
T1.1

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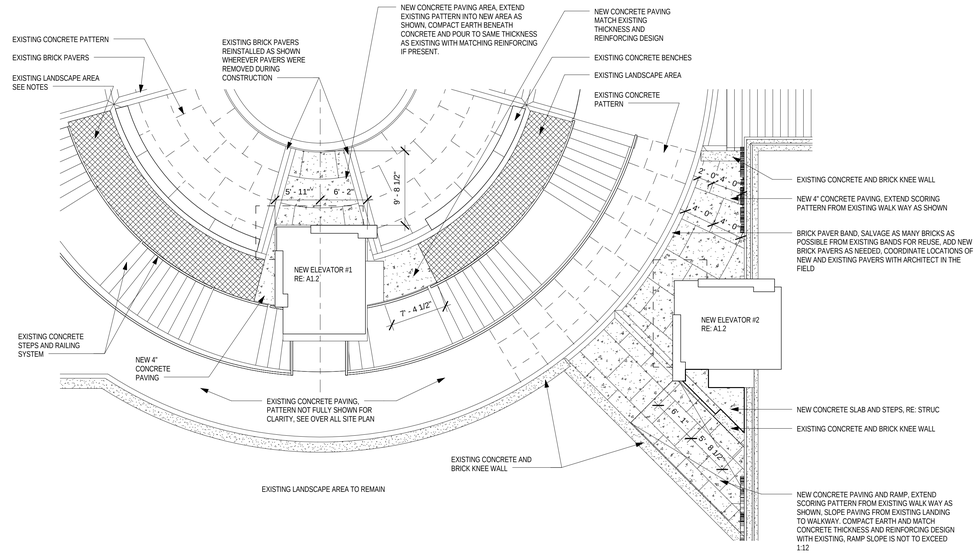
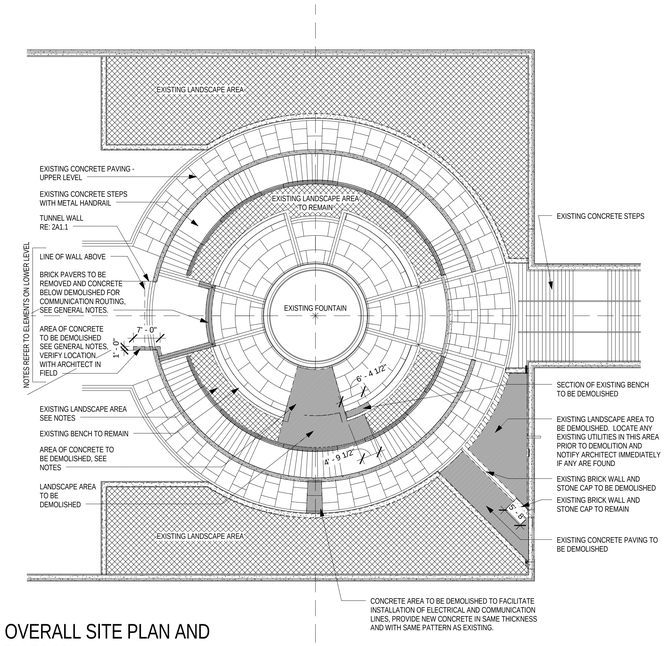


N

3 A1.1 ENLARGED SITE PLAN

1/8" = 1'-0"



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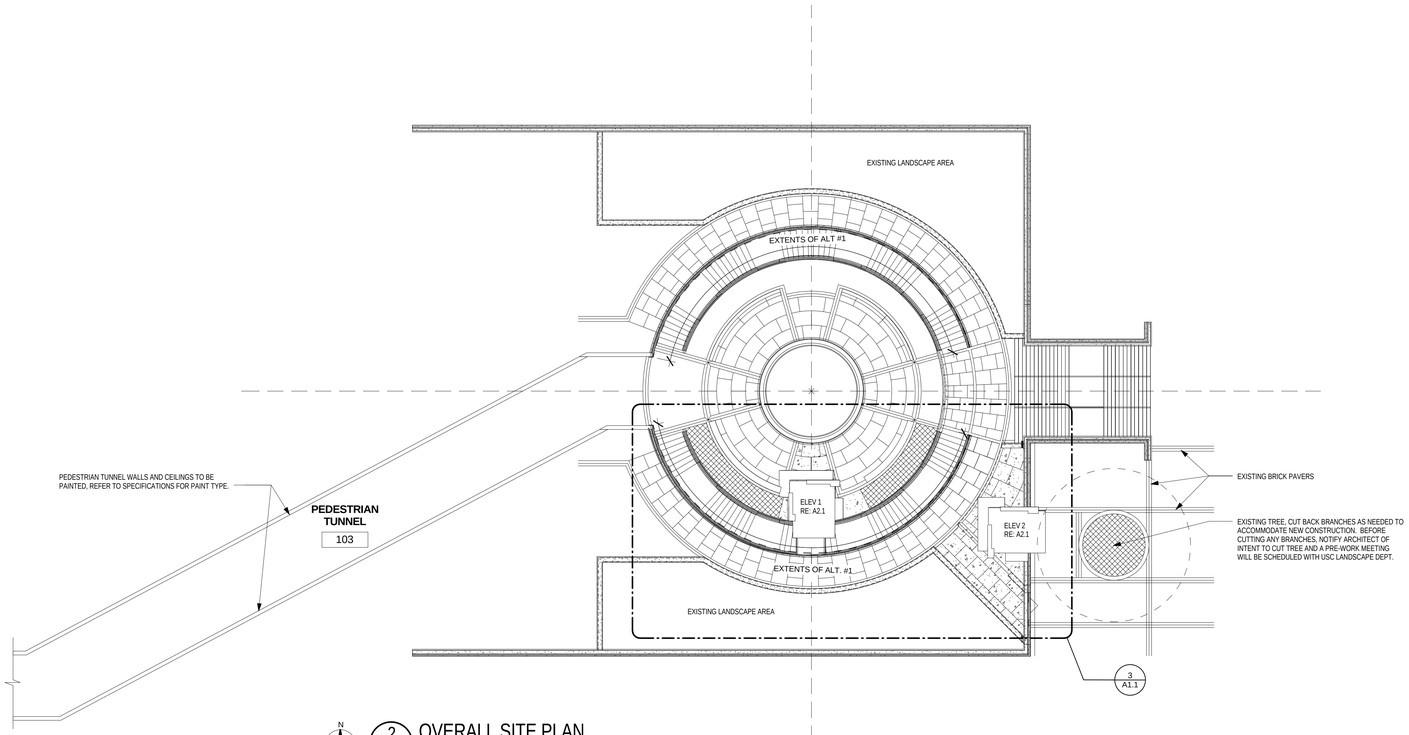
1 A1.1 EXISTING OVERALL SITE PLAN AND DEMOLITION PLAN

1/16" = 1'-0"

SITE PLAN GENERAL NOTES

1. BRICK PAVERS NOTED TO BE REMOVED ARE TO BE SALVAGED AND SAVED FOR REINSTALLATION ON PROJECT.
2. AREAS OF CONCRETE, LANDSCAPE AREAS, AND BRICK PAVERS SHOWN TO BE DEMOLISHED MAY BE REDUCED AT THE CONTRACTORS OPTION, BUT NO ADDITIONAL FUNDS WILL BE GIVEN FOR ADDITIONAL CONCRETE DEMOLITION REQUIRED TO COMPLETE ANY SCOPE OF WORK NOTED IN THESE DOCUMENTS. CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK PRIOR TO BIDDING WITH REGARD TO AREAS WHICH MAY NEED ADDITIONAL DEMOLITION IN ORDER TO COMPLETE THE WORK IN THESE DOCUMENTS.
3. EXISTING LANDSCAPE AREAS SHOWN TO REMAIN ARE TO BE EITHER PROTECTED OR AT THE CONTRACTORS OPTION, PLANTING MATERIAL REMOVED AND REINSTALLED IN KIND AT THE COMPLETION OF THE PROJECT. LANDSCAPING REQUIRED TO BE REMOVED IN ORDER FOR ROUTING OF UTILITIES IS TO BE CAREFULLY REMOVED AND TEMPORARILY LOCATED IN ORDER FOR REINSTALLATION. CONTRACTOR HAS THE OPTION TO COMPLETELY DEMOLISH LANDSCAPING AND PROVIDE AND INSTALL REPLACEMENT PLANT MATERIAL IN KIND. ALL LANDSCAPE BEDS AFFECTED BY CONSTRUCTION ARE TO BE RETURNED TO THEIR CURRENT CONDITION AFTER WORK IS COMPLETED.
4. COORDINATE EXACT LOCATION OF CONDUITS WHICH WILL BE EXPOSED WITH ARCHITECT PRIOR TO INSTALLATION.
5. RELOCATE ANY SIGNAGE DISTURBED BY CONSTRUCTION. COORDINATE WITH ARCHITECT FOR NEW LOCATIONS.



N

2 A1.1 OVERALL SITE PLAN

1/16" = 1'-0"

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 0547 p
803 779 7464 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal

The Boudreaux Group, Inc.
Columbia, South Carolina
B-7701c
STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS

A/E Seal

DAVID WIESENBERGER
Columbia, SC
No. 8727
STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT

UNIVERSITY SOUTH CAROLINA

USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

Law School Address:
701 Main Street
Columbia, South Carolina 29208

No.	Description	Date

Project Number
HZT-20110
Drawn By
Author
Checked By
Checker
Date
MAY 31, 2013

Drawing Title.
OVERALL SITE PLAN

Drawing No.
A1.1

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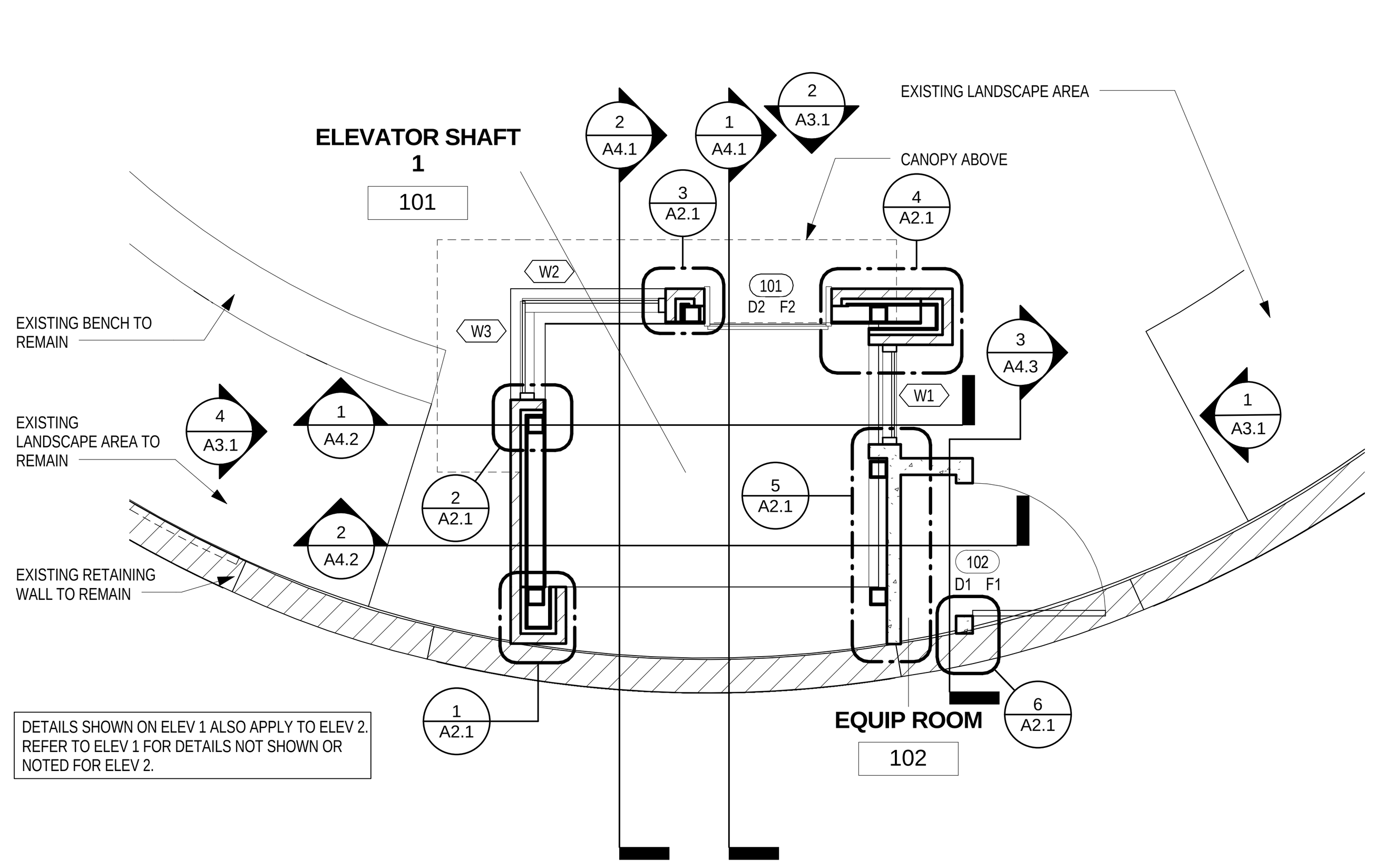
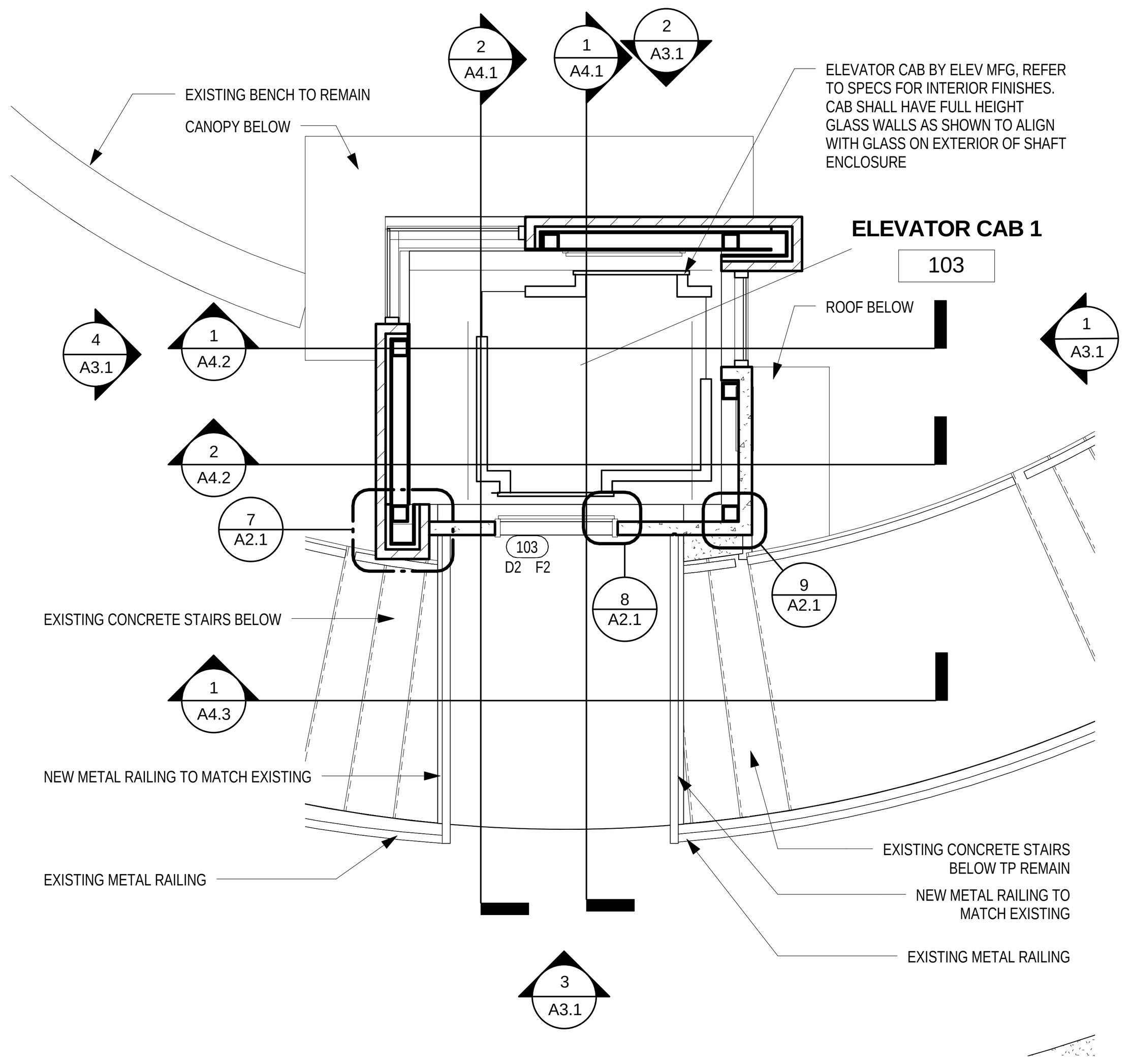
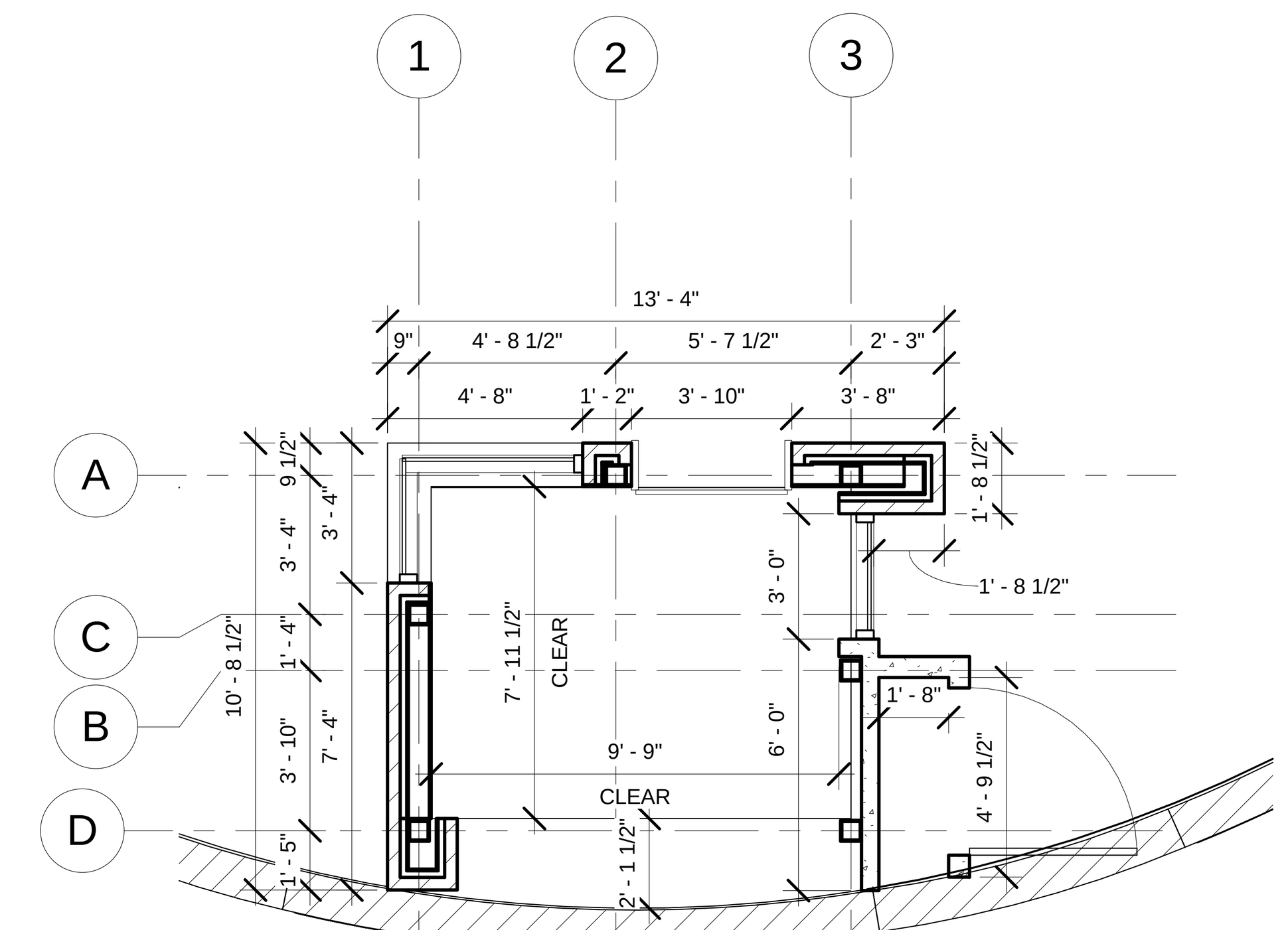


1 A1.2 ENLARGED PLAN LOWER PLAZA - ELEV 1
1/4" = 1'-0"



2 A1.2 ENLARGED MID LEVEL PLAN - ELEV 1
1/4" = 1'-0"



9 A1.2 DIMENSION PLAN ELEV 1 - LOWER PLAZA
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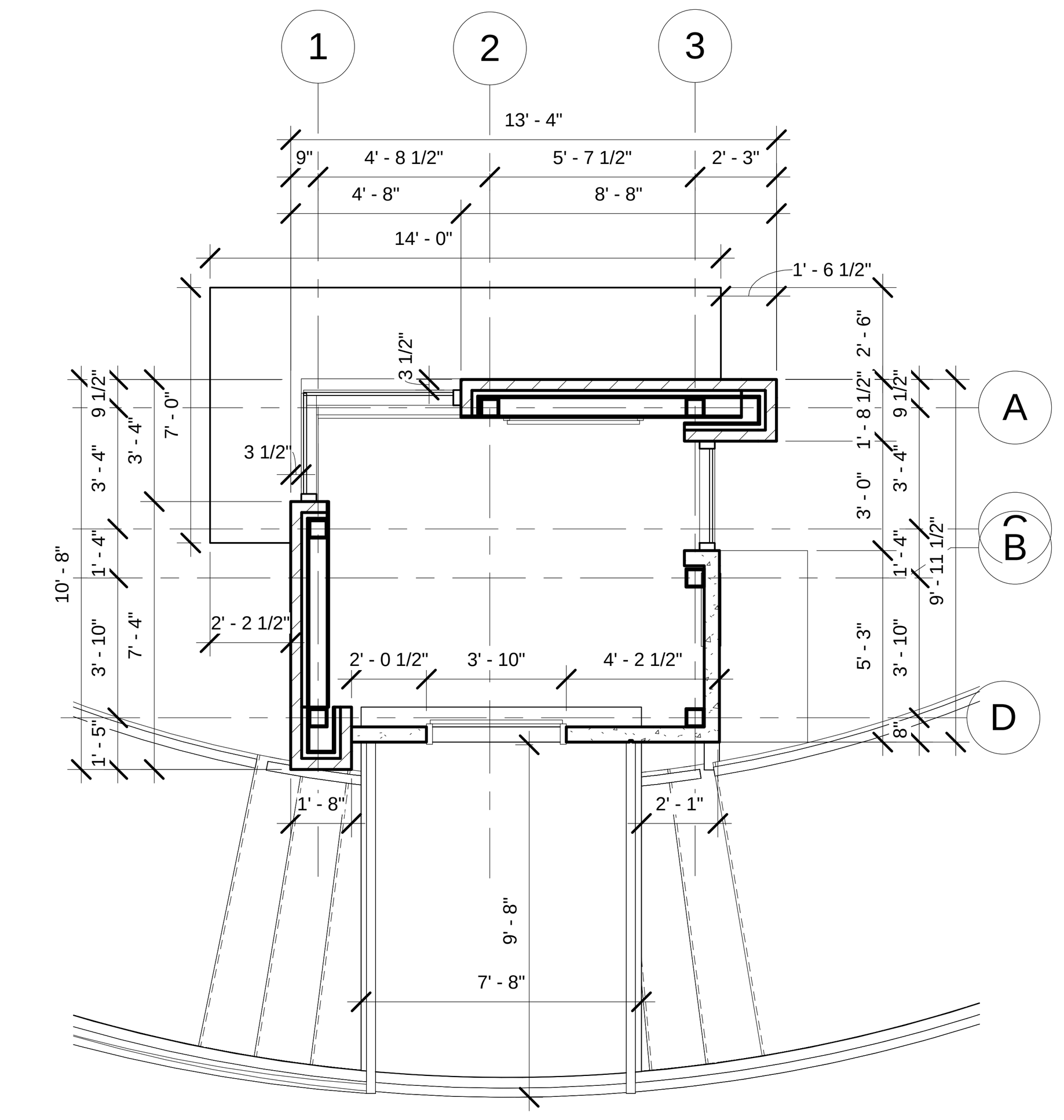
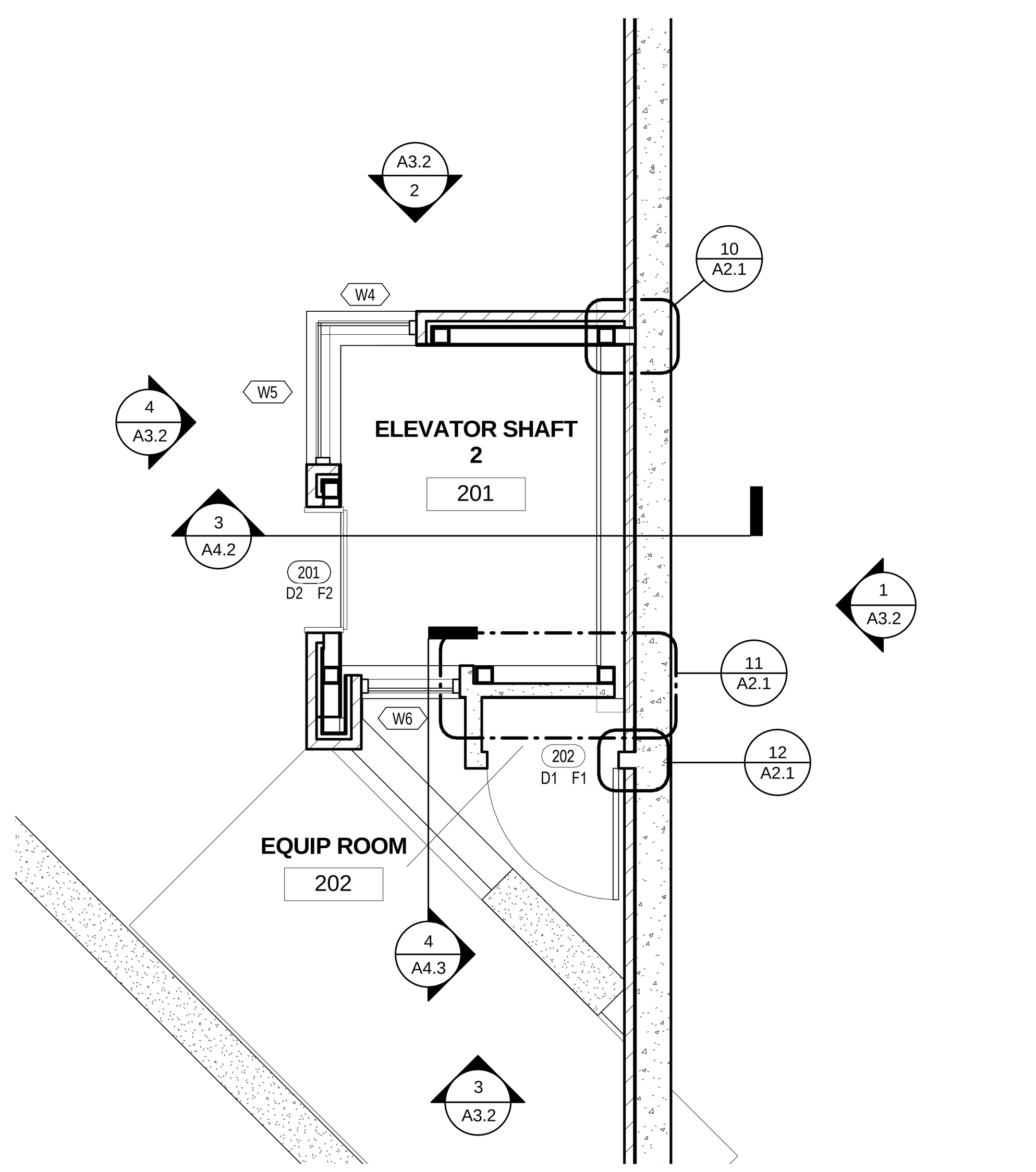
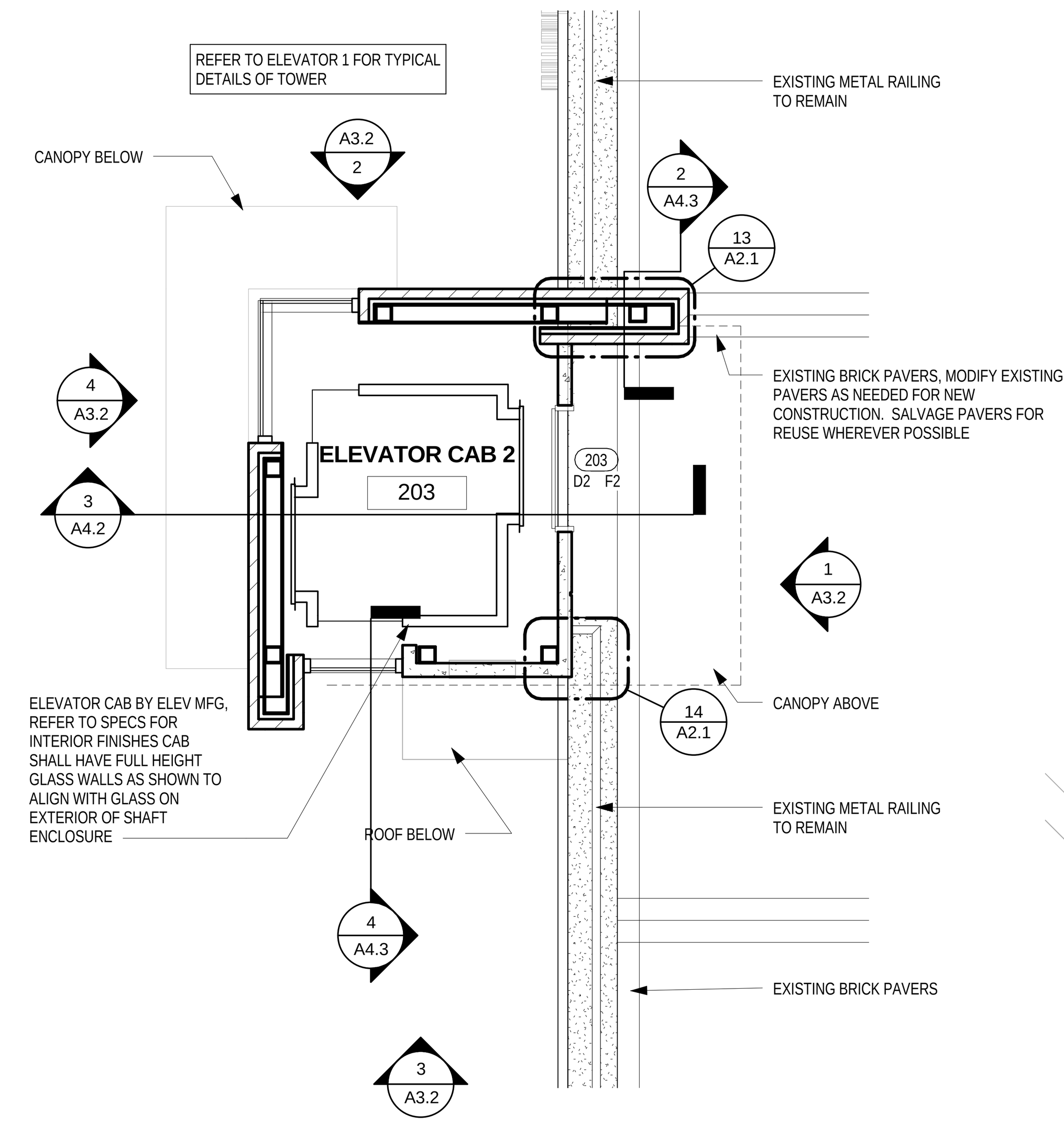


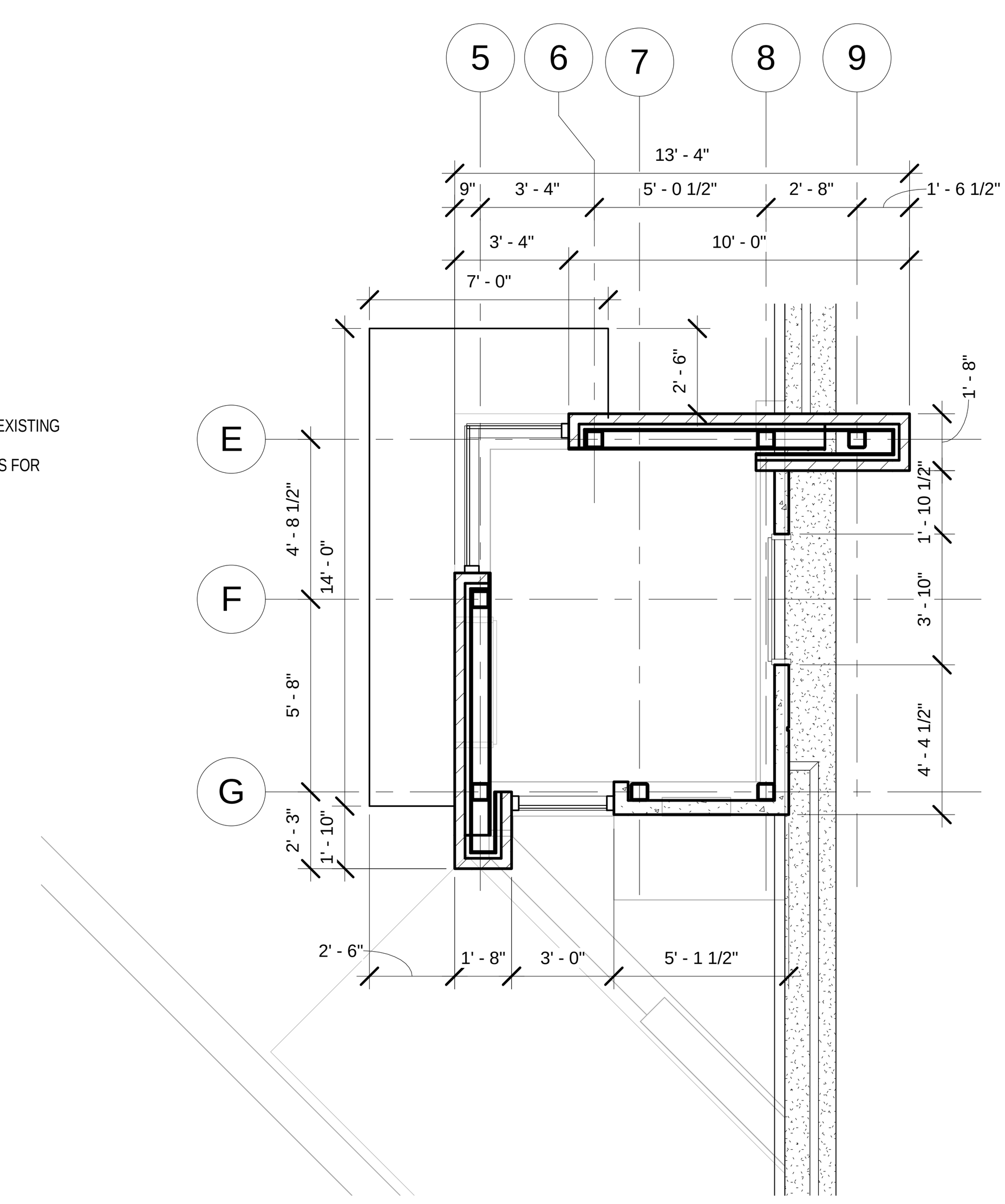
10 A1.2 DIMENSION PLAN ELEV 1 - MID LEVEL
1/4" = 1'-0"



3 A1.2 ENLARGED MID LEVEL PLAN - ELEV 2
1/4" = 1'-0"



4 A1.2 ENLARGED UPPER PLAZA PLAN - ELEV 2
1/4" = 1'-0"



11 A1.2 DIMENSION PLAN ELEV 2 - UPPER PLAZA
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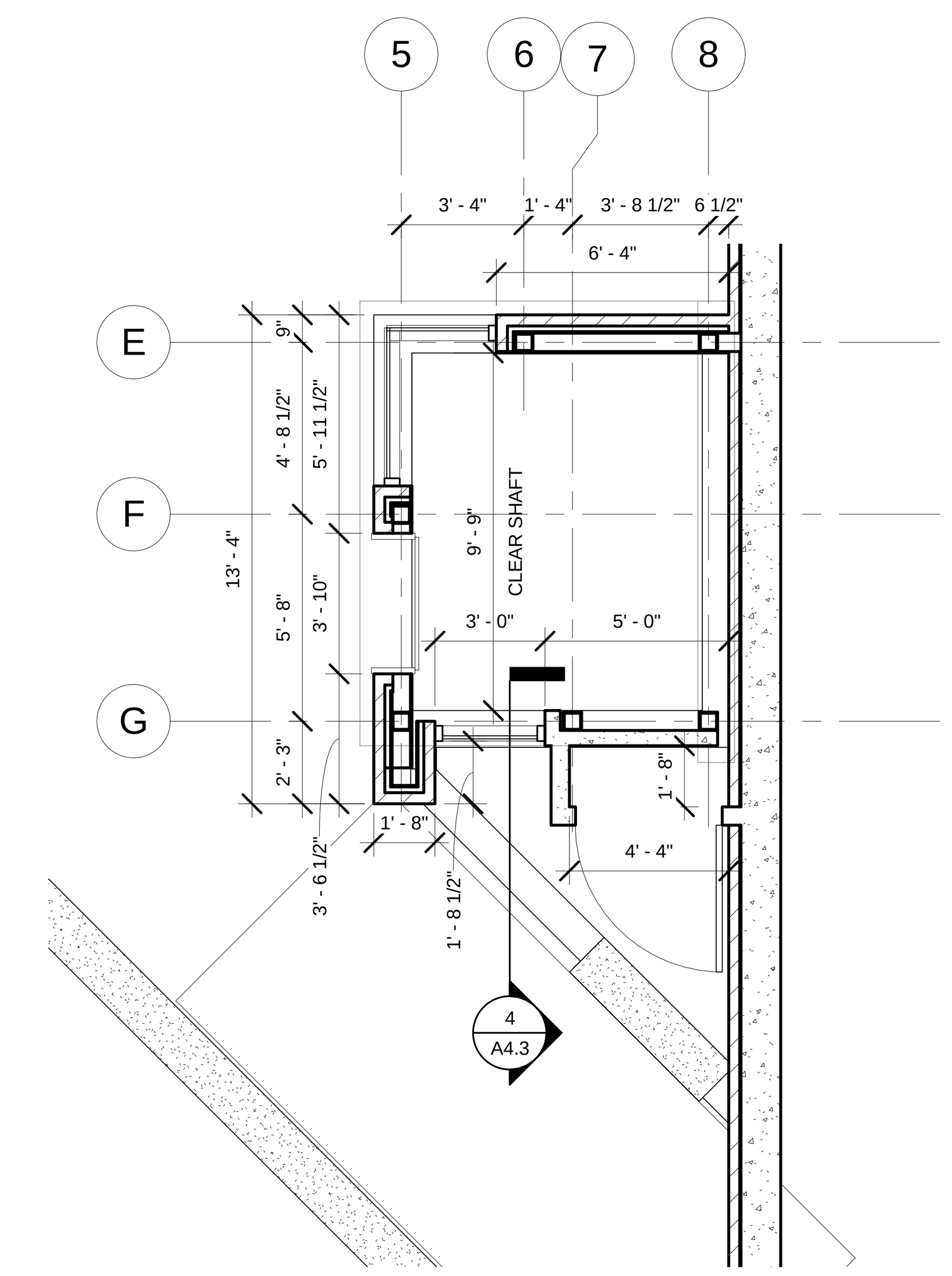
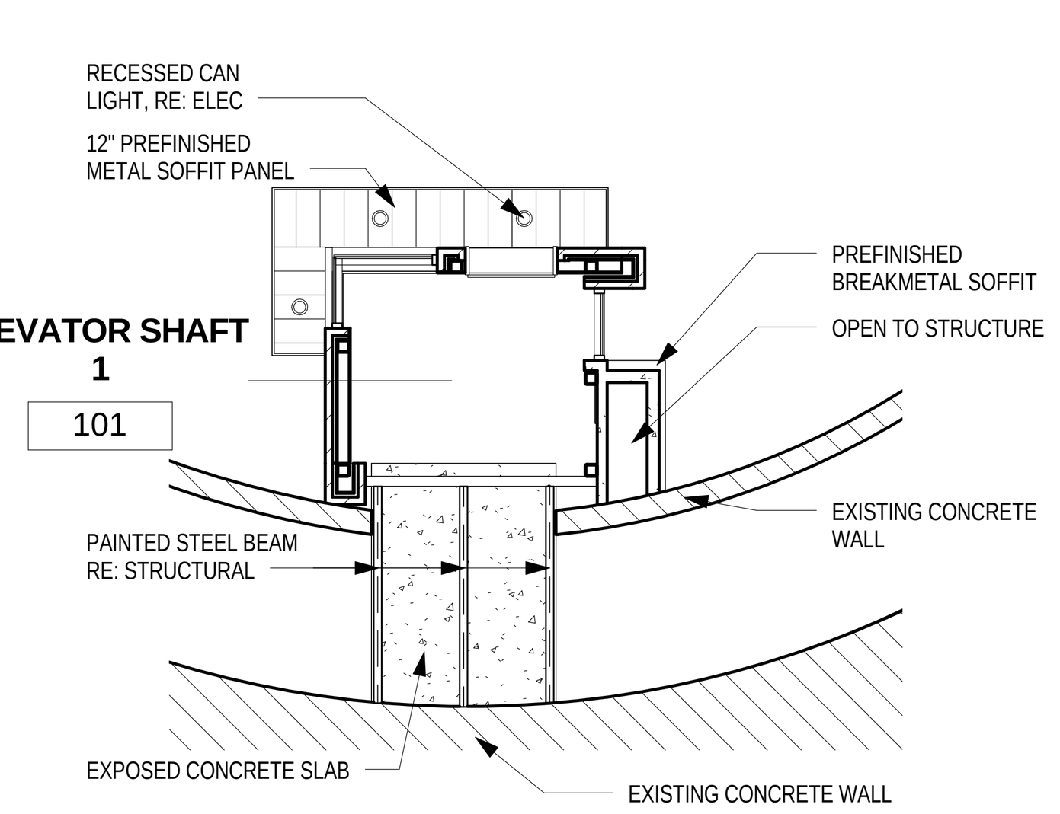
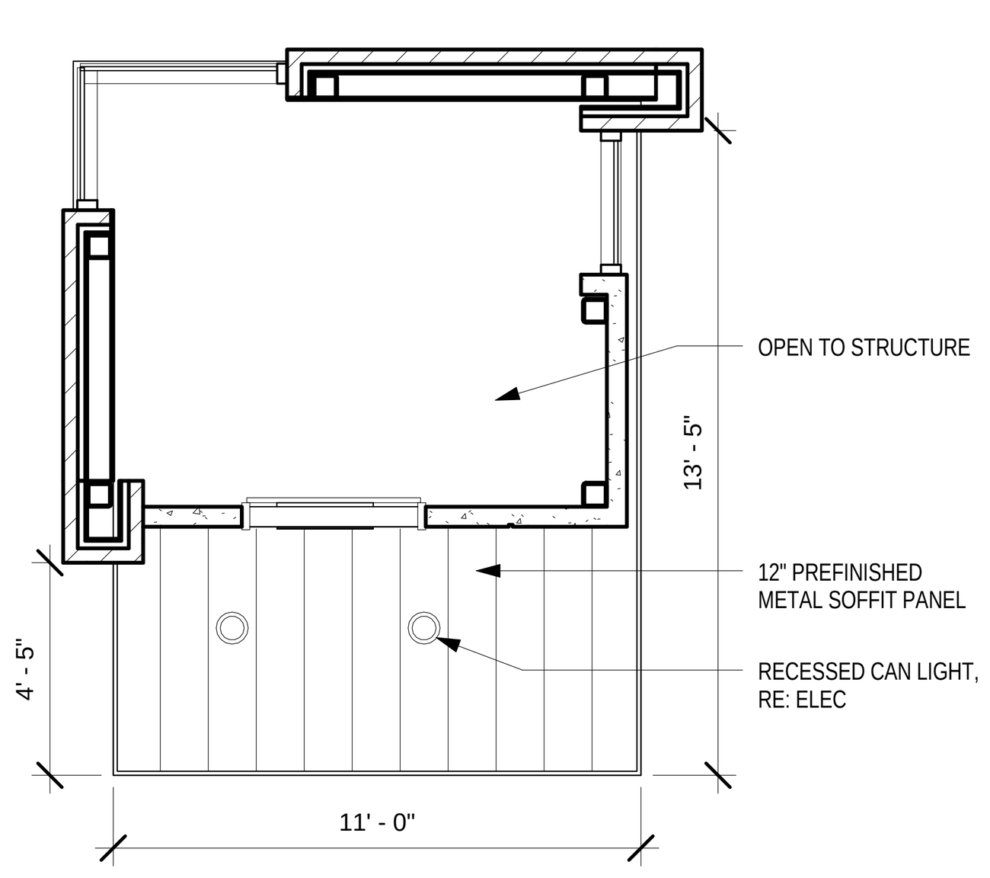


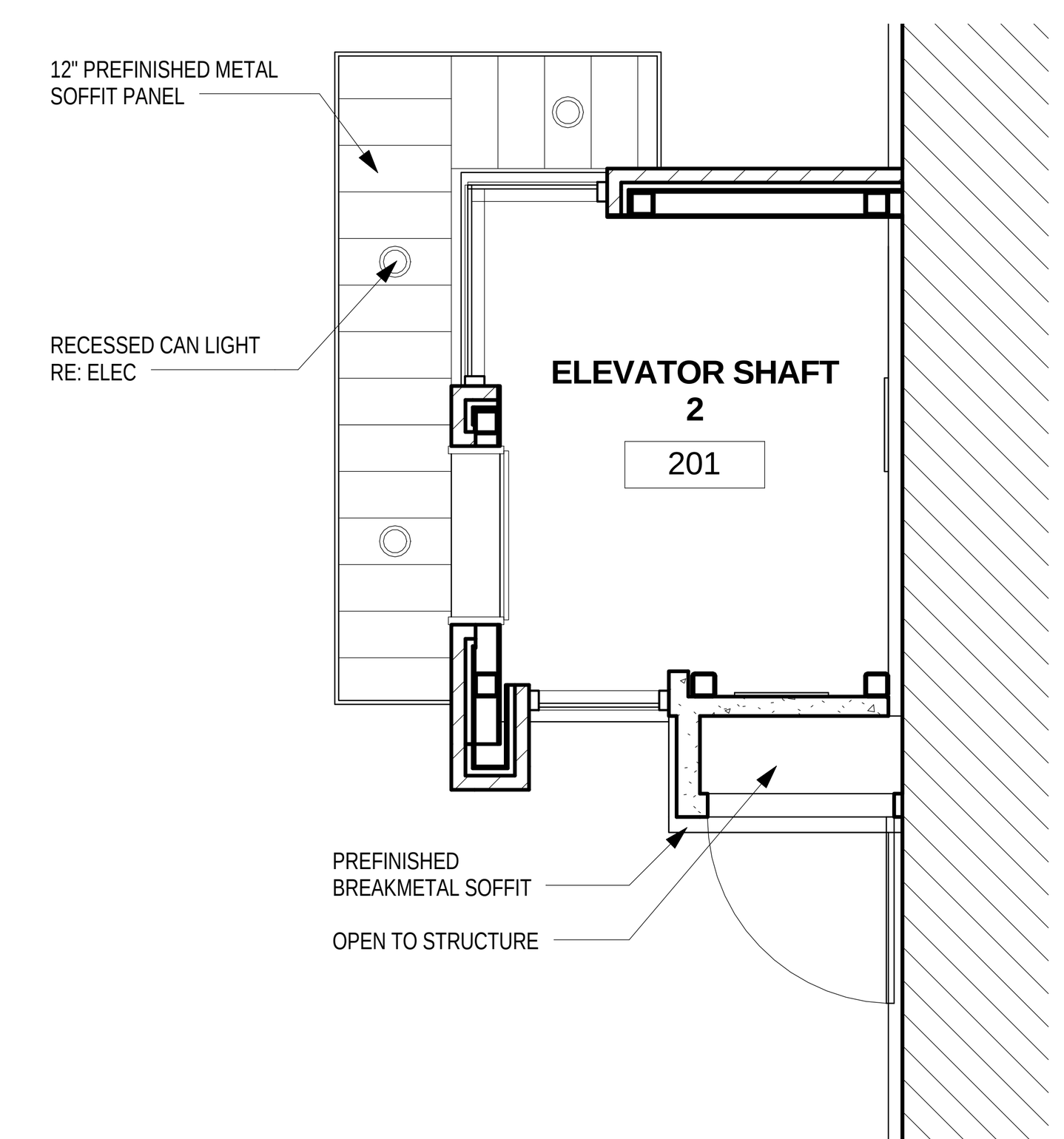
12 A1.2 DIMENSION PLAN ELEV 2 - MID LEVEL
1/4" = 1'-0"



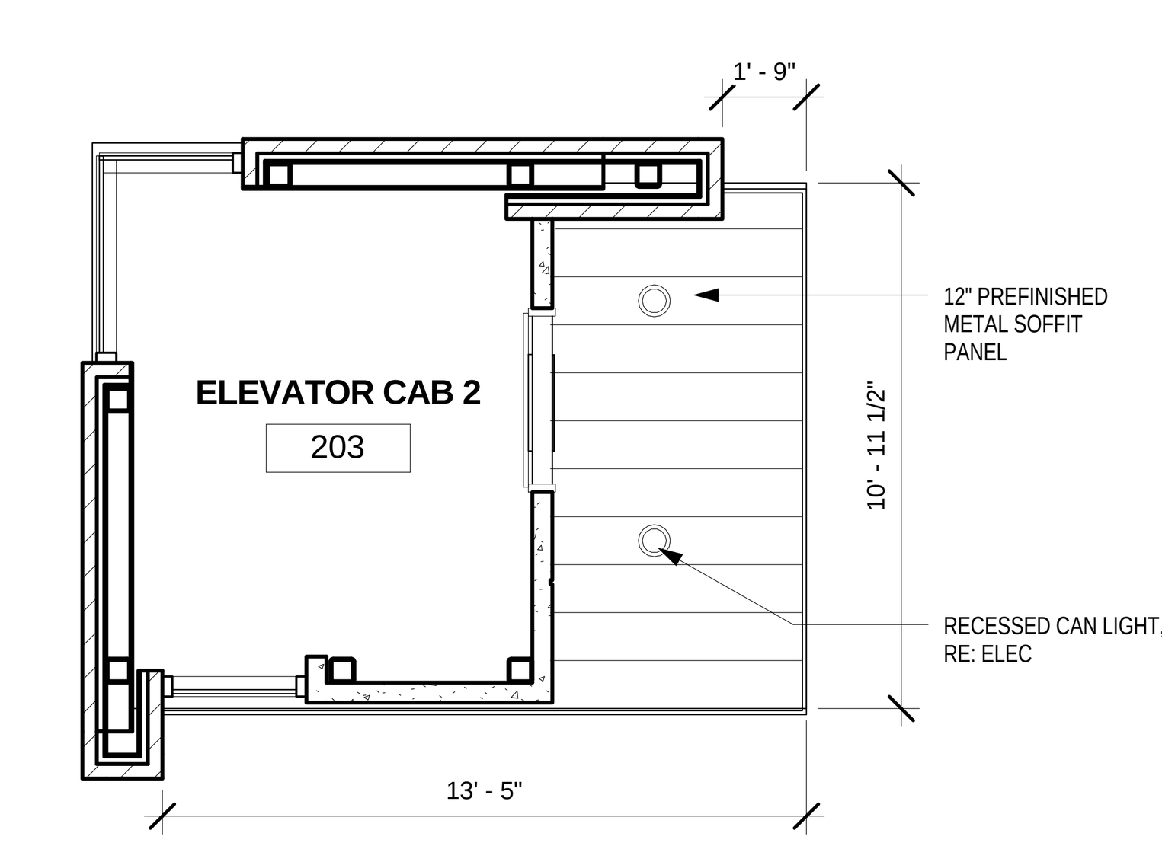
5 A1.2 ELEV 1 - REFLECTED CEILING PLAN LOWER LEVEL
1/8" = 1'-0"



6 A1.2 ELEV 1 - REFLECTED CEILING PLAN MID LEVEL
1/4" = 1'-0"



7 A1.2 ELEV 2 - REFLECTED CEILING PLAN MID LEVEL
1/4" = 1'-0"



8 A1.2 ELEV 2 - REFLECTED CEILING PLAN UPPER LEVEL
1/4" = 1'-0"

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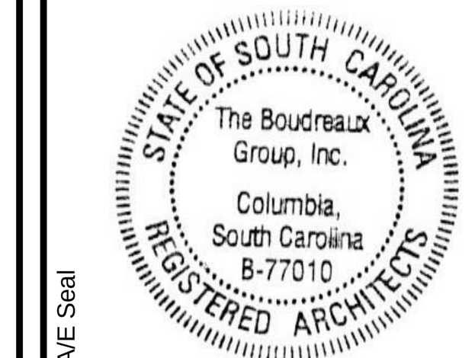
The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 8695
Columbia, SC 29202
803 799 0247 p
803 771 6844 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal



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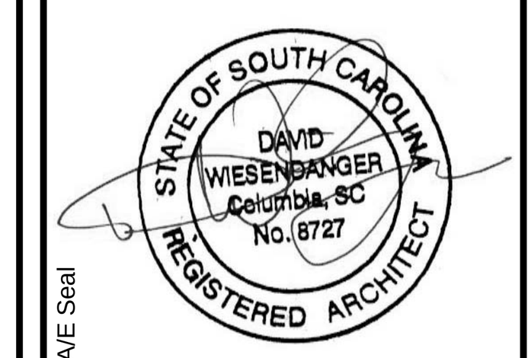


UNIVERSITY SOUTH CAROLINA

USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

Law School Address:
701 Main Street
Columbia, South Carolina 29208

No.	Description	Date

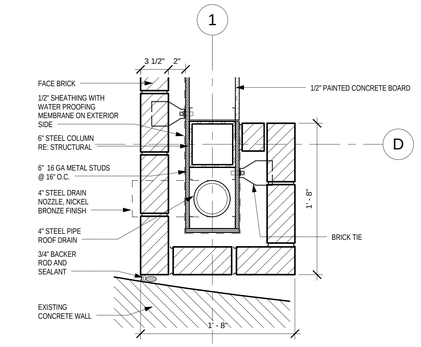
Project Number
H27-2010
Drawn By
Author
Checked By
Checker
Date
MAY 31, 2013

Drawing Title:

FLOOR PLANS, DIMENSION PLANS, REFLECTED CEILING PLANS

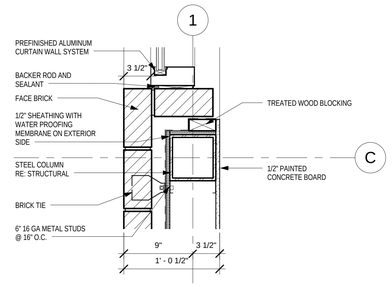
Drawing No.

A1.2



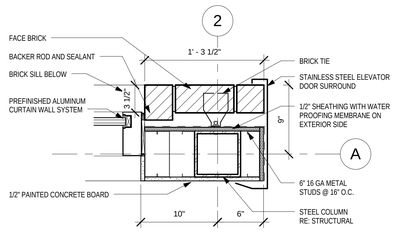
1 A2.1 — DETAIL AT BRICK WING WALL - ELEV 1

1 1/2" = 1'-0"



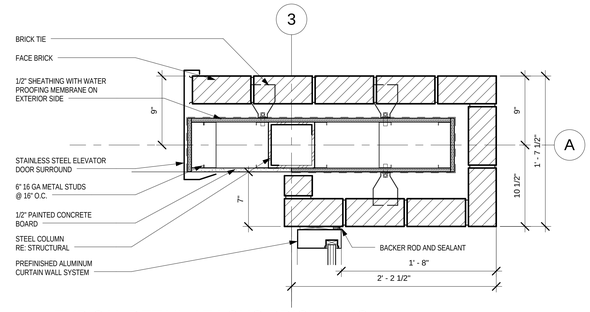
2 A2.1 — TYPICAL DETAIL AT CURTAINWALL JAMB

1 1/2" = 1'-0"



3 A2.1 — DETAIL AT CURTAIN WALL JAMB AND ELEVATOR DOOR

1 1/2" = 1'-0"



4 A2.1 — TYPICAL DETAIL AT LONG BRICK WING WALL

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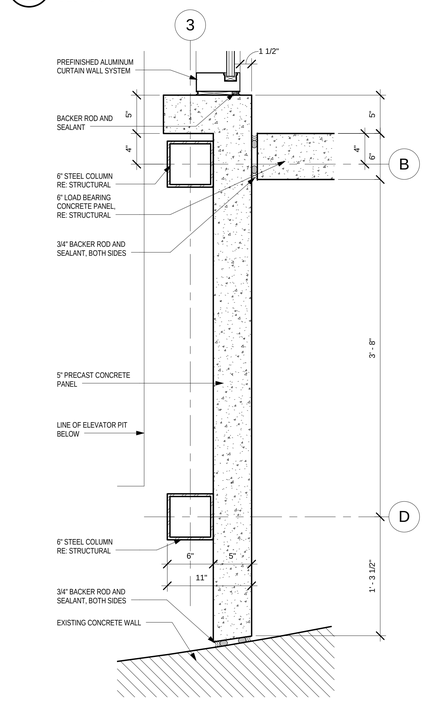
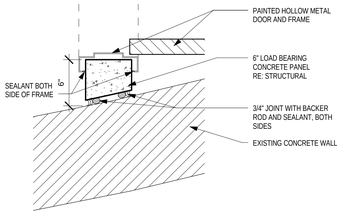


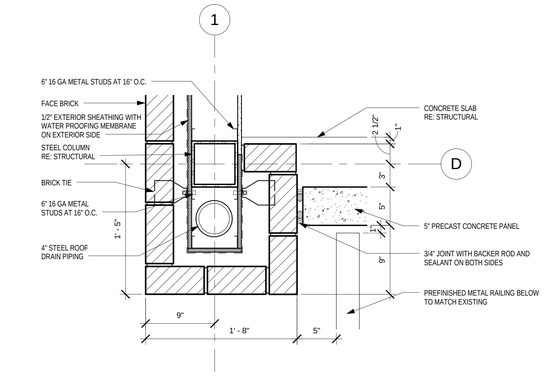
5 A2.1 — DETAIL AT PRECAST CONCRETE PANEL AND EXISTING WALL

1 1/2" = 1'-0"



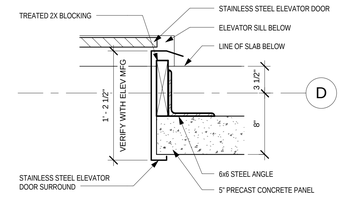
6 A2.1 — DETAIL AT DOOR JAMB IN PRECAST PANEL

1 1/2" = 1'-0"



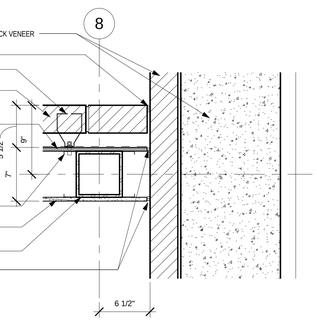
7 A2.1 — TYP. DETAIL AT BRICK WING WALL - MID LEVEL

1 1/2" = 1'-0"



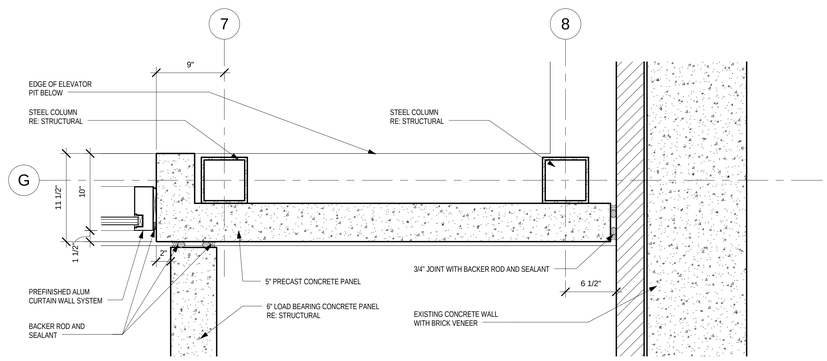
8 A2.1 — ELEVATOR DOOR JAMB DETAIL IN PRECAST PANEL

1 1/2" = 1'-0"



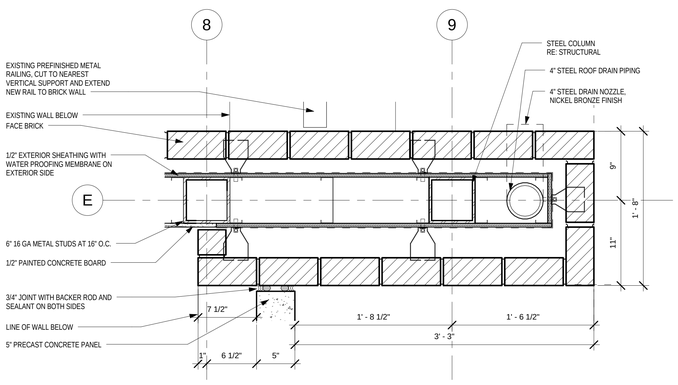
10 A2.1 — DETAIL AT BRICK INTERSECTION OF EXISTING WALL - ELEV 2

1 1/2" = 1'-0"



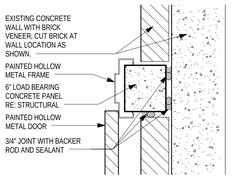
11 A2.1 — DETAIL AT PRECAST PANEL AND EXISTING WALL - ELEV 2

1 1/2" = 1'-0"



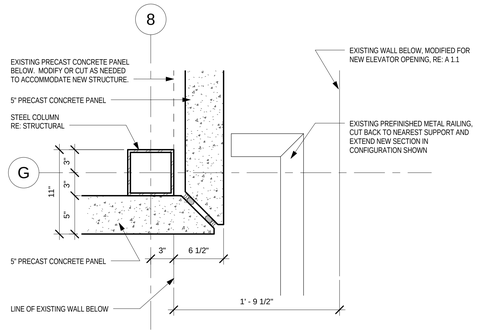
13 A2.1 — DETAIL ELEV 2 WING WALL - UPPER PLAZA

1 1/2" = 1'-0"



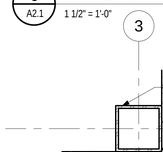
12 A2.1 — DETAIL AT DOOR JAMB IN PRECAST WALL

1 1/2" = 1'-0"



14 A2.1 — PRECAST CORNER DETAIL - ELEV 2 UPPER LEVEL

1 1/2" = 1'-0"



9 A2.1 — TYP. PRECAST CORNER

1 1/2" = 1'-0"

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The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 0547 p
803 771 7484 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

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UNIVERSITY SOUTH CAROLINA

USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

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701 Main Street
Columbia, South Carolina 29208

No.	Description	Date

Project Number
HA77.0010
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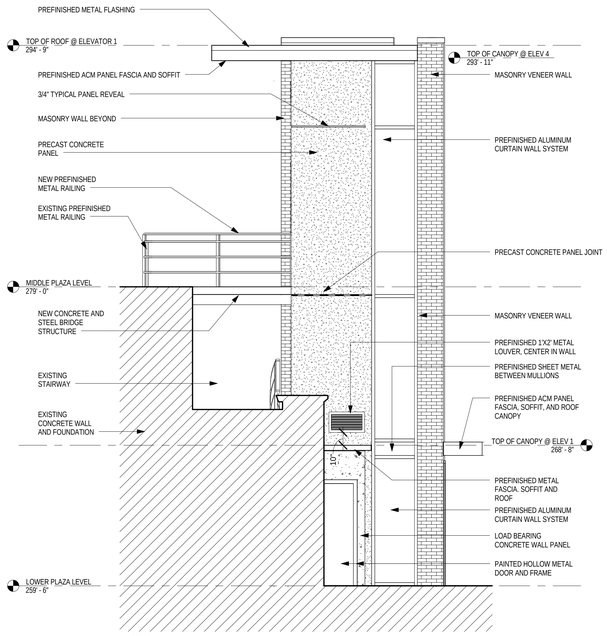
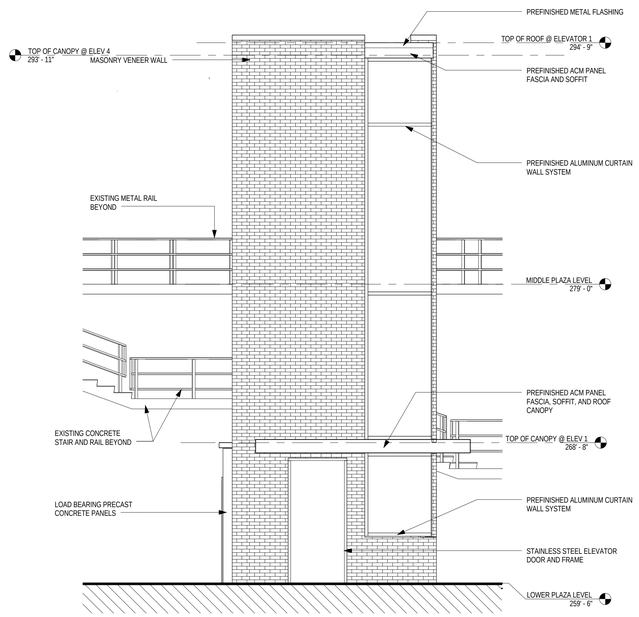
Drawing Title.
PLAN DETAILS

Drawing No.
A2.1



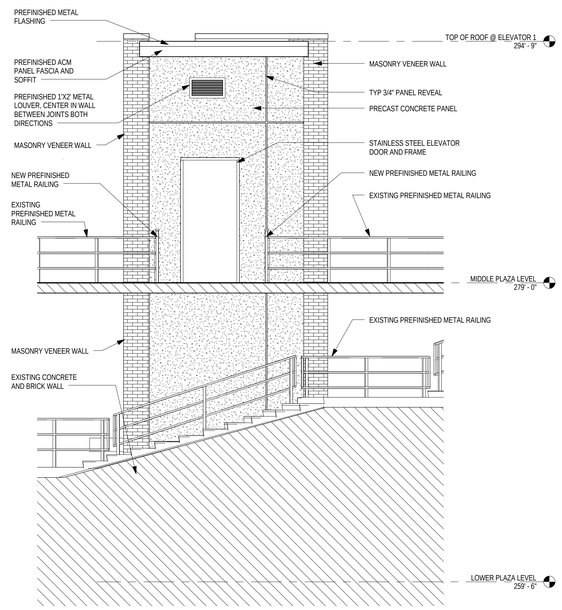
1 A3.1 EAST ELEVATION ELEVATOR 1

1/4" = 1'-0"



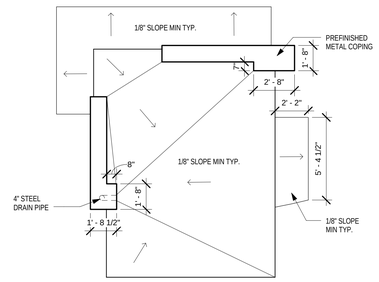
2 A3.1 NORTH ELEVATION ELEVATOR 1

1/4" = 1'-0"



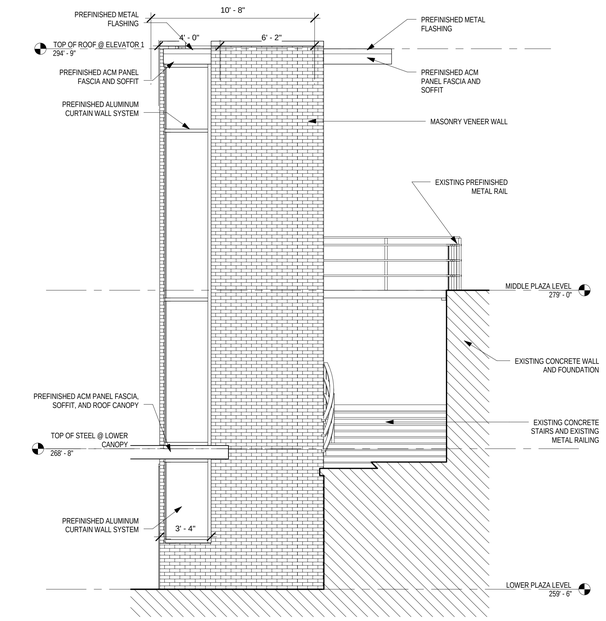
3 A3.1 SOUTH ELEVATION ELEVATOR 1

1/4" = 1'-0"



5 A3.1 ELEVATOR 1 ROOF PLAN

1/4" = 1'-0"



4 A3.1 WEST ELEVATION ELEVATOR 1

1/4" = 1'-0"

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 9547 P
803 779 7464 F
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal

STATE OF SOUTH CAROLINA
The Boudreaux Group, Inc.
Columbia, South Carolina
C-7701C
REGISTERED ARCHITECTS

A/E Seal

STATE OF SOUTH CAROLINA
DAVID WIESENBERGER
Columbia, SC
No. 8727
REGISTERED ARCHITECT

UNIVERSITY SOUTH CAROLINA

USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

Law School Addition
701 Main Street
Columbia, South Carolina 29208

No.	Description	Date

Project Number
12-27-2010
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ELEVATIONS - ELEVATOR 1

Drawing No.

A3.1

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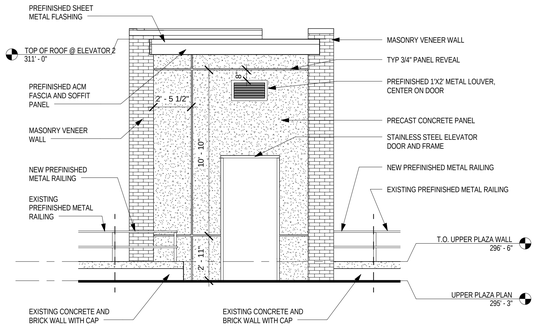
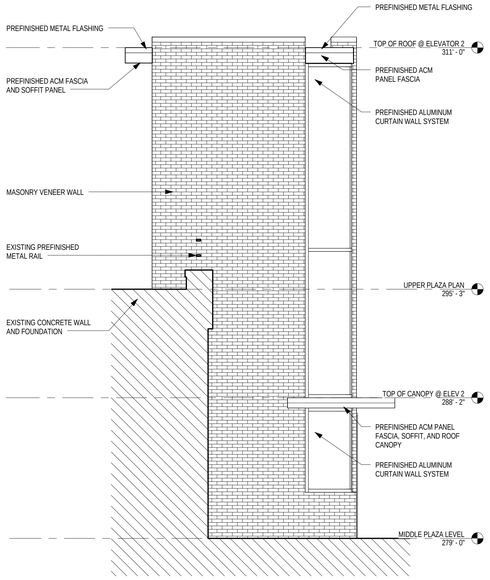


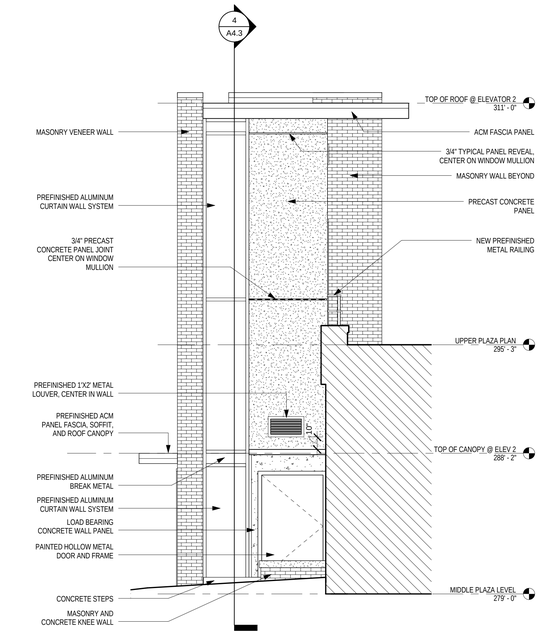
1 A3.2 EAST ELEVATION - ELEVATOR 2

1/4" = 1'-0"



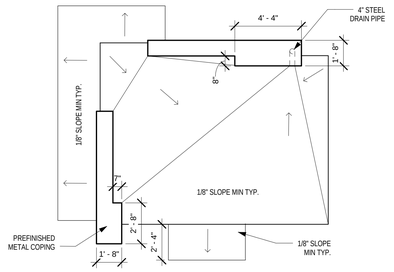
2 A3.2 NORTH ELEVATION - ELEVATOR 2

1/4" = 1'-0"



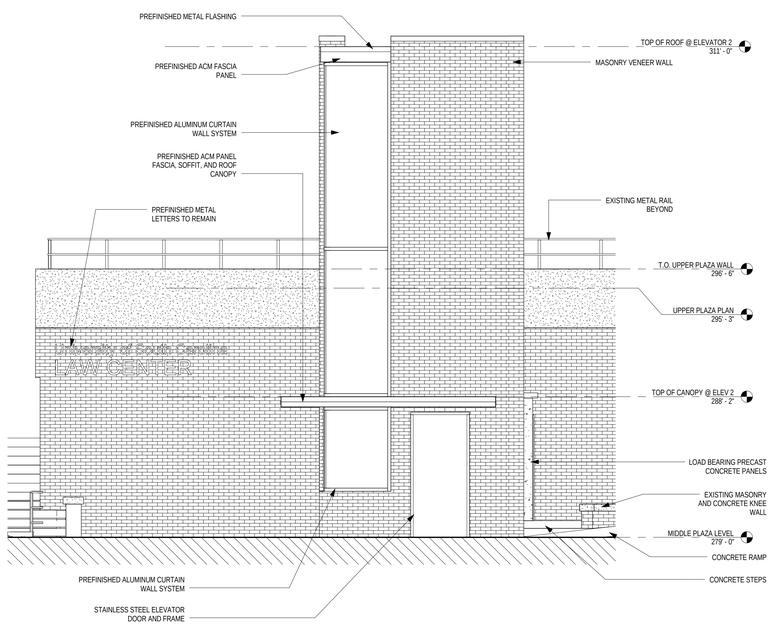
3 A3.2 SOUTH ELEVATION ELEVATOR 2

1/4" = 1'-0"



5 A3.2 ELEVATOR 2 ROOF PLAN

1/4" = 1'-0"



4 A3.2 WEST ELEVATION - ELEVATOR 2

1/4" = 1'-0"

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 0547 p
803 779 0644 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

AE Seal

STATE OF SOUTH CAROLINA
The Boudreaux Group, Inc.
Columbia, South Carolina
C-7701C
REGISTERED ARCHITECTS

AE Seal

STATE OF SOUTH CAROLINA
DAVID WIESENGANGER
Columbia, SC
No. 8727
REGISTERED ARCHITECT

UNIVERSITY SOUTH CAROLINA

USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

Law School Address:
701 Main Street
Columbia, South Carolina 29208

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ELEVATIONS - ELEVATOR 2

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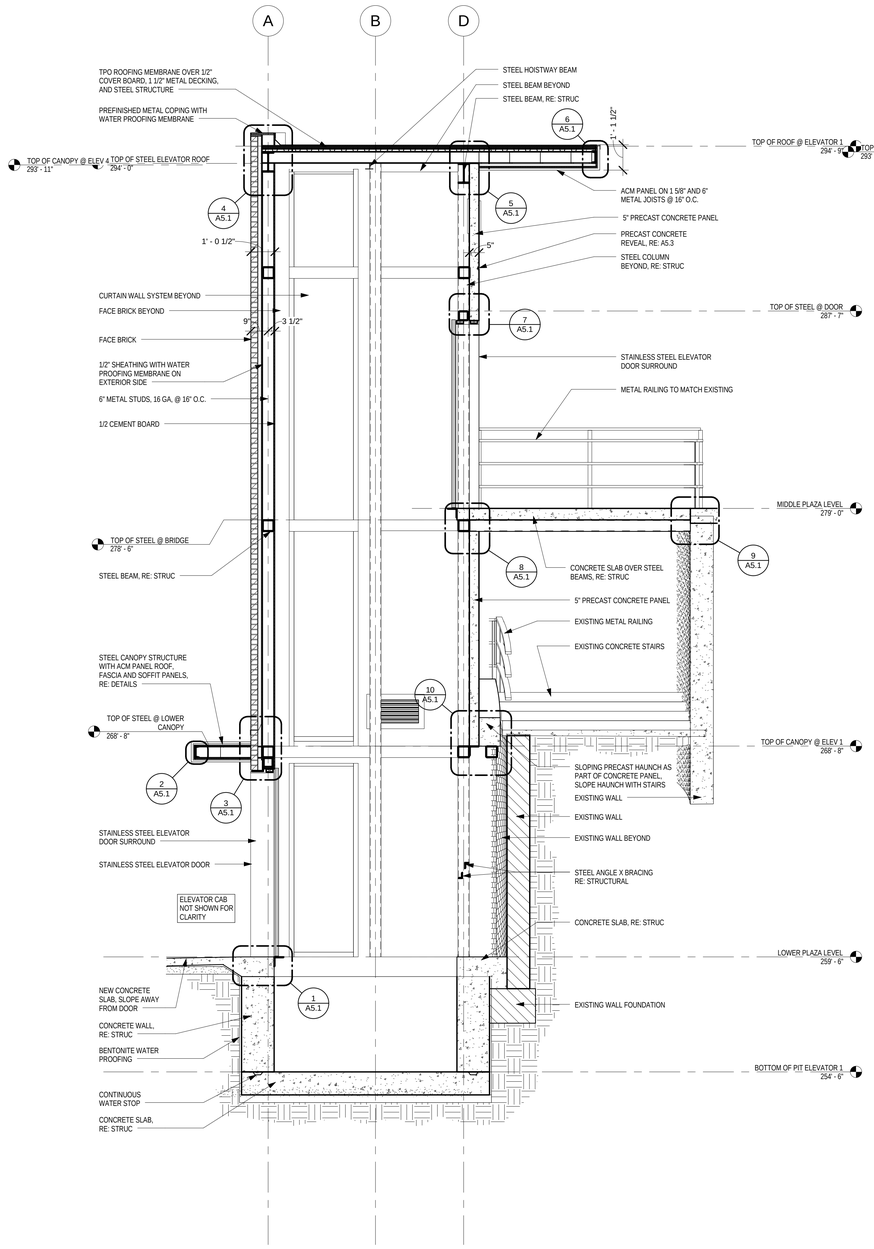
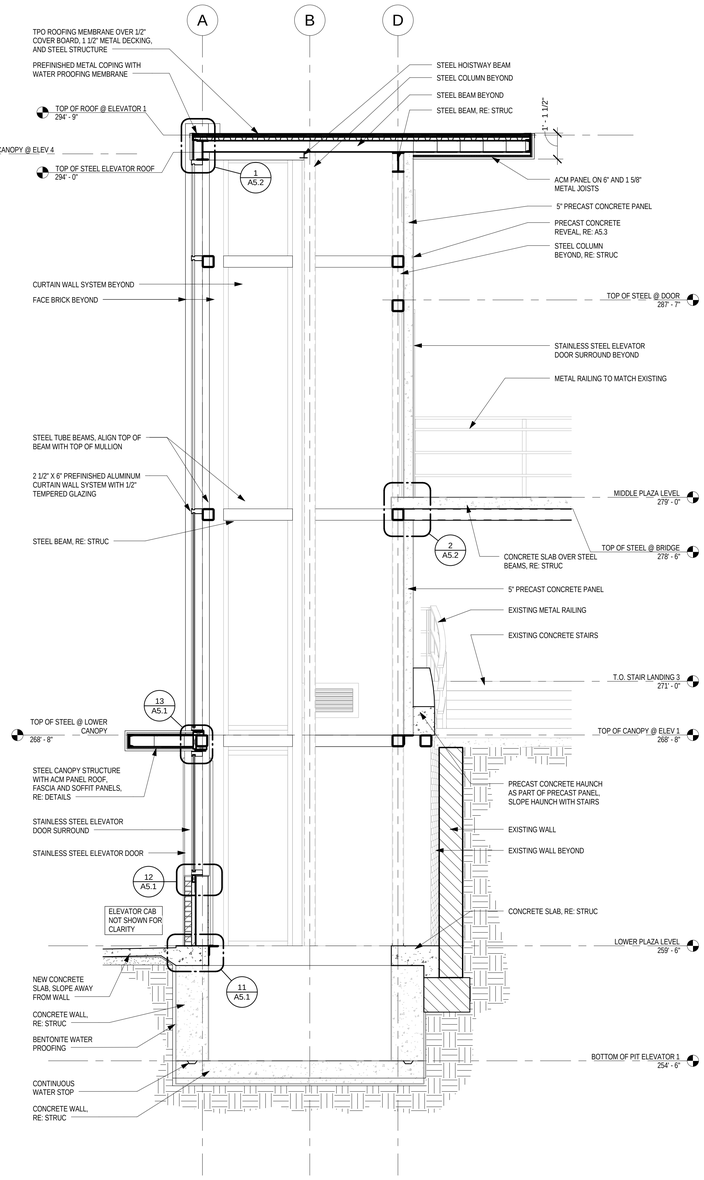


1 A4.1 WALL SECTION 1 AT ELEVATOR 1

3/8" = 1'-0"



2 A4.1 WALL SECTION 2 AT ELEVATOR 1

3/8" = 1'-0"

The Boudreaux Group

1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 9547 p
803 779 4464 f
info@boudreauxgroup.com

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STATE OF SOUTH CAROLINA
The Boudreaux Group, Inc.
Columbia, South Carolina
C-7701c
REGISTERED ARCHITECTS

A/E Seal

STATE OF SOUTH CAROLINA
DAVID WIESENBANGER
Columbia, SC
No. 8727
REGISTERED ARCHITECT

UNIVERSITY SOUTH CAROLINA
USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

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WALL SECTIONS

Drawing No.

A4.1

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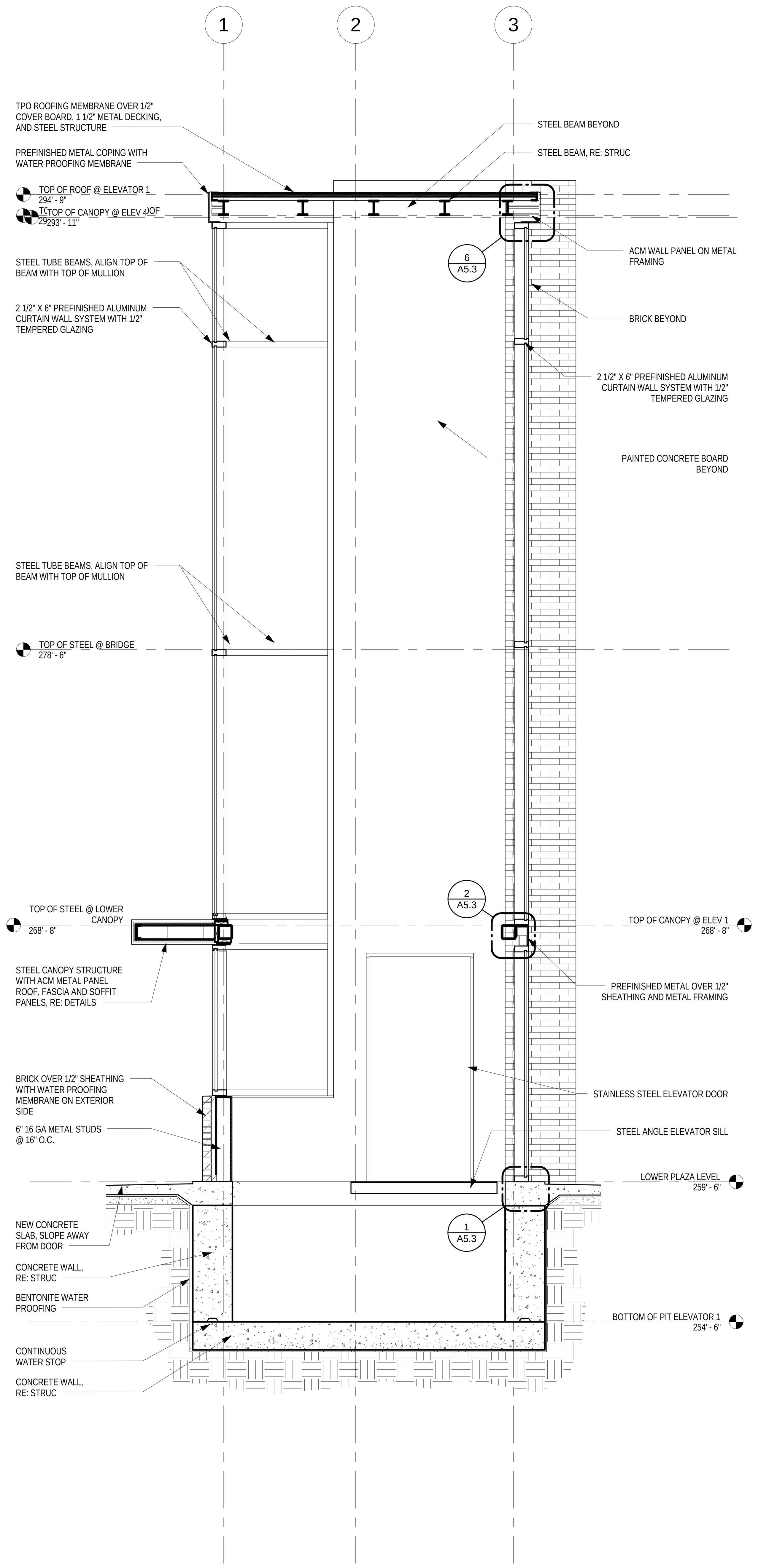
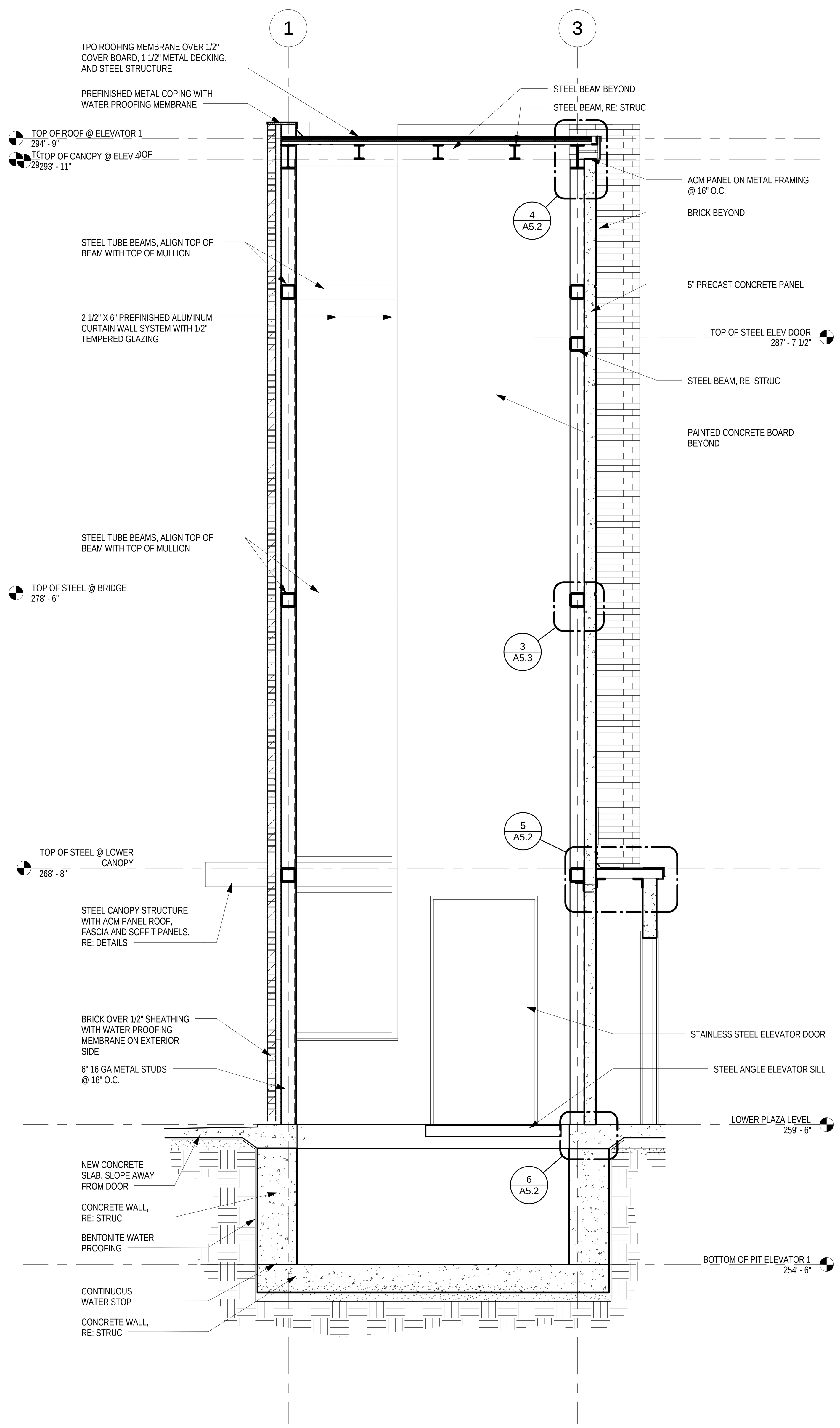
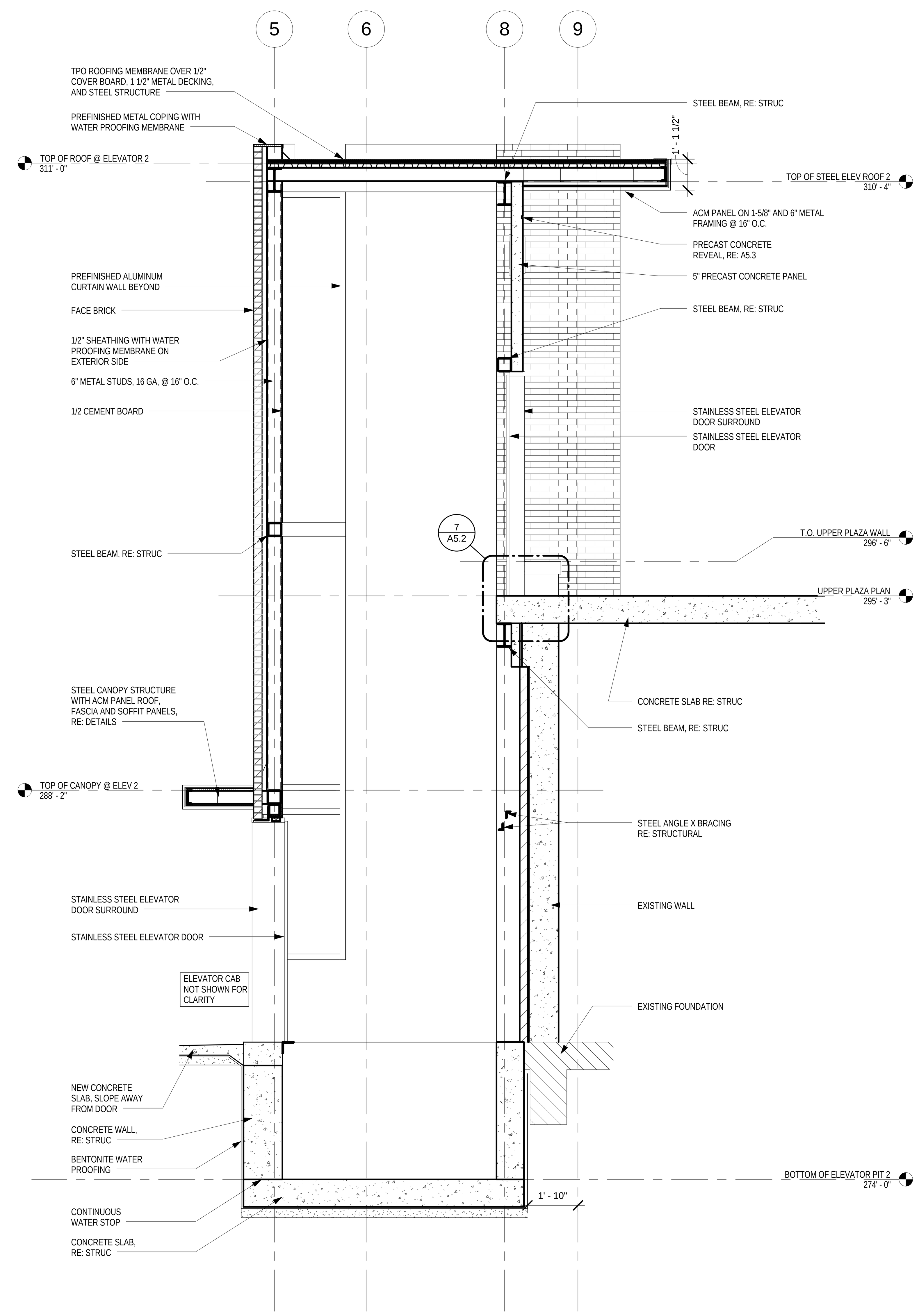


1 A4.2 WALL SECTION 3 AT ELEVATOR 1
3/8" = 1'-0"



2 A4.2 WALL SECTION 4 AT ELEVATOR 1
3/8" = 1'-0"



3 A4.2 WALL SECTION 1 AT ELEVATOR 2
3/8" = 1'-0"

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 8695
Columbia, SC 29202
803 799 0247 p
803 771 6844 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

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UNIVERSITY SOUTH CAROLINA

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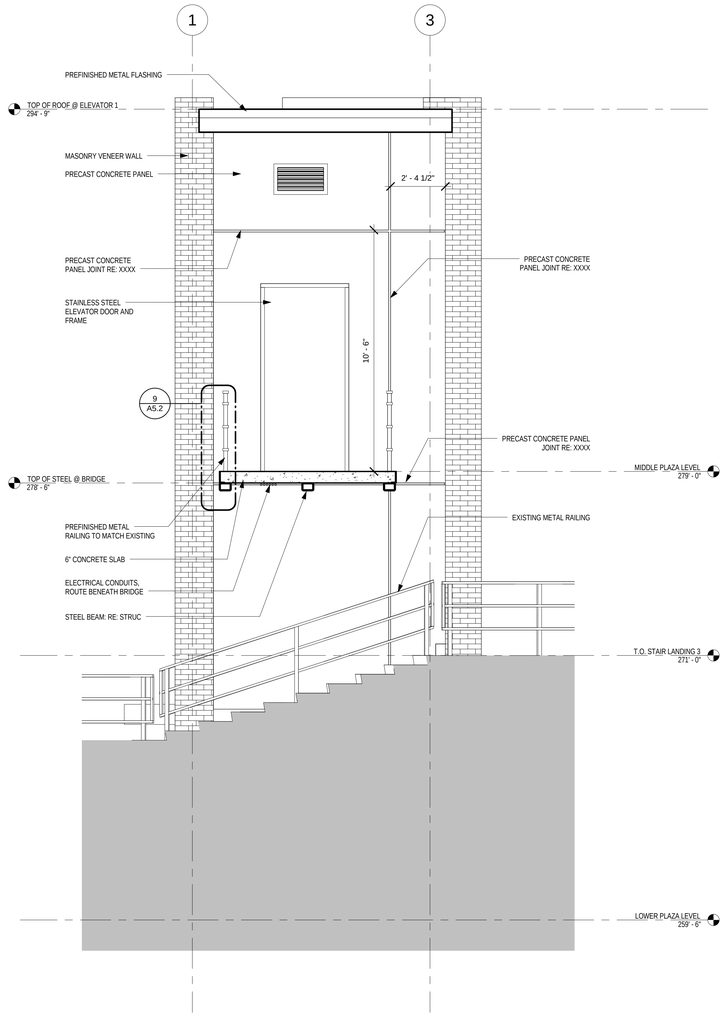
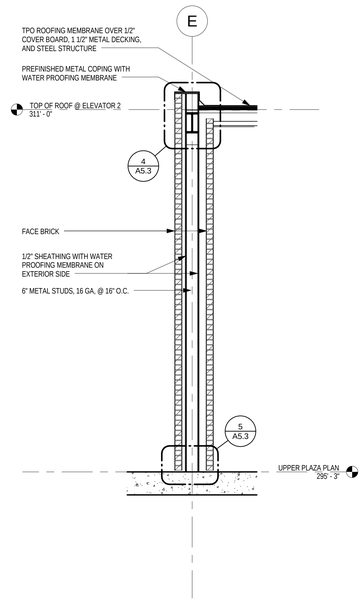


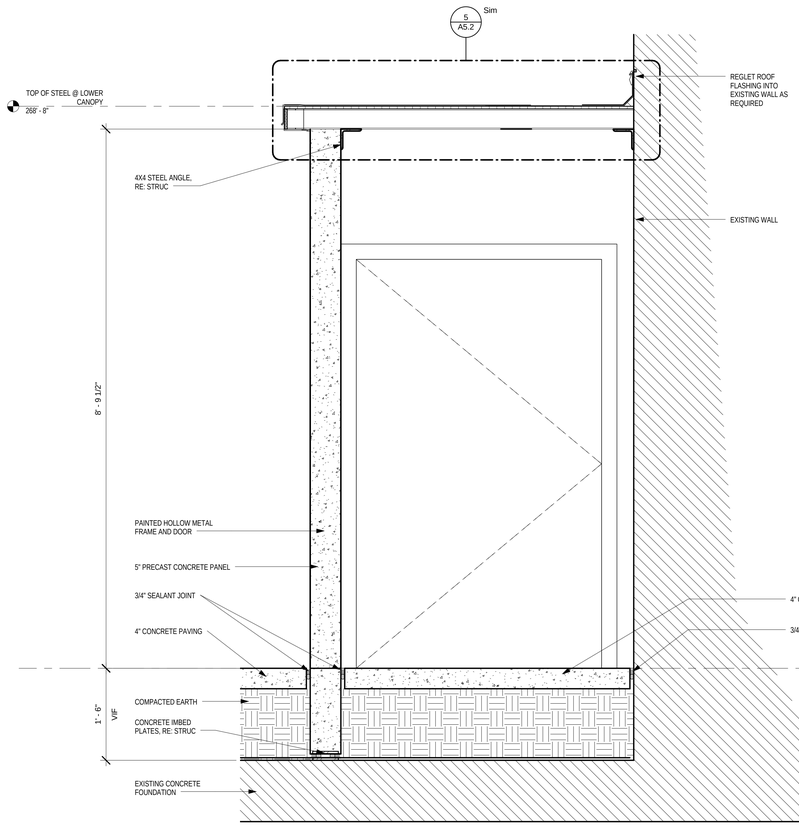
1 A4.3 WALL SECTION 5 AT ELEVATOR 1

3/8" = 1'-0"



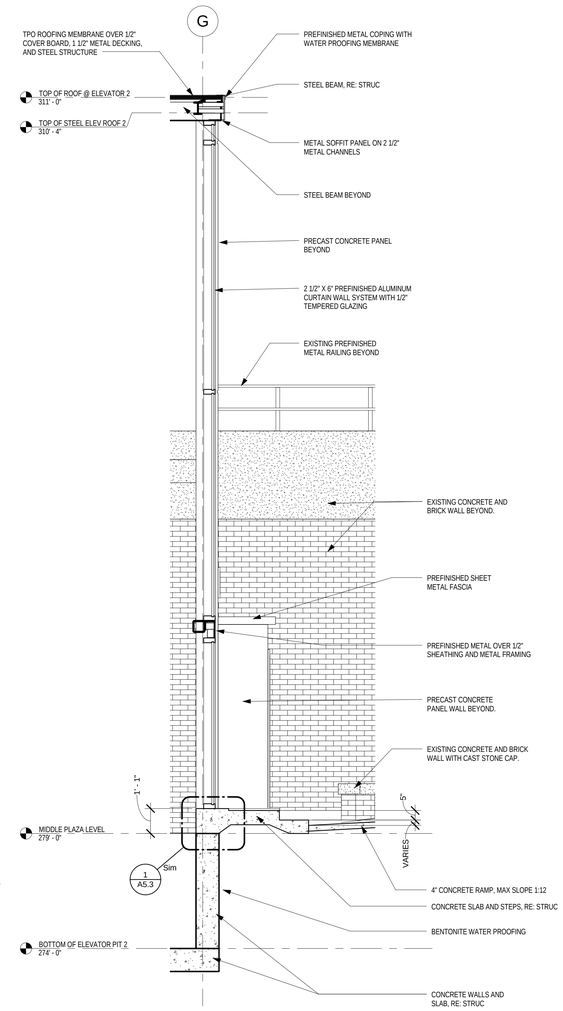
2 A4.3 WALL SECTION 2 AT ELEVATOR 2

3/8" = 1'-0"



3 A4.3 WALL SECTION AT ELEVATOR EQUIPMENT CLOSET

1" = 1'-0"



4 A4.3 WALL SECTION 3 AT ELEVATOR 2 - SOUTH WALL

3/8" = 1'-0"

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1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 9547 p
803 779 7644 f
info@boudreauxgroup.com

Interdisciplinary Design Architecture Interiors Planning

A/E Seal

STATE OF SOUTH CAROLINA
The Boudreaux Group, Inc.
Columbia, South Carolina
C-7701c
REGISTERED ARCHITECTS

A/E Seal

STATE OF SOUTH CAROLINA
DAVID WIESENGANGER
Columbia, SC
No. 8727
REGISTERED ARCHITECT

UNIVERSITY SOUTH CAROLINA

USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

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701 Main Street
Columbia, South Carolina 29208

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WALL SECTIONS

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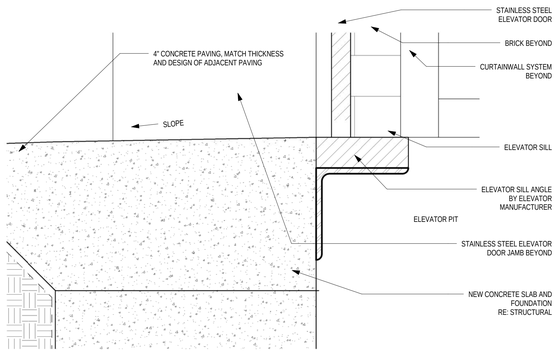
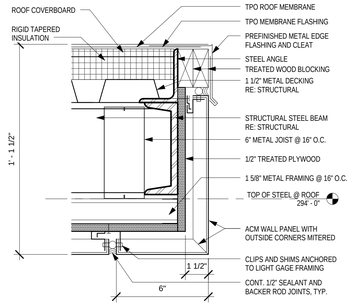
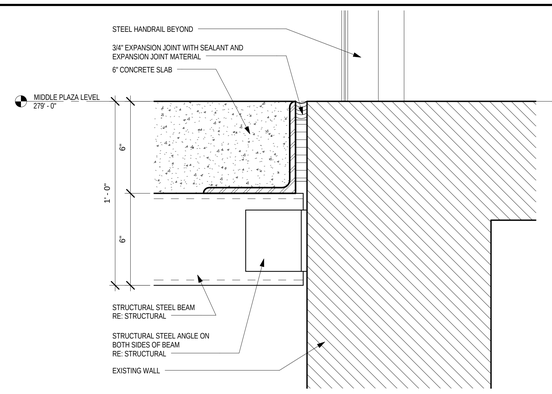
A4.3



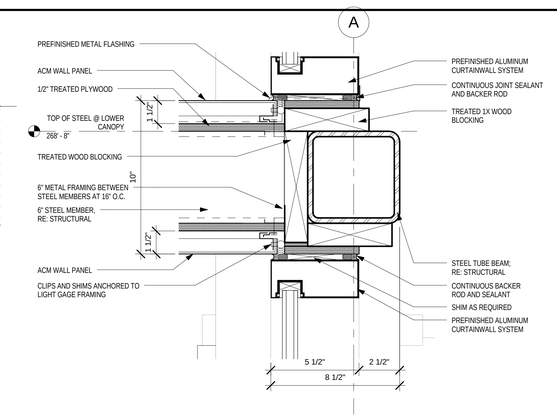
1 A5.1 SECTION DETAIL AT ELEVATOR SILL
3" = 1'-0"



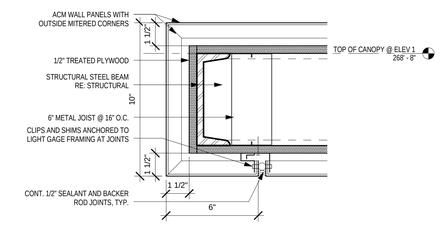
6 A5.1 SECTION DETAIL AT ROOF CANOPY EDGE
3" = 1'-0"



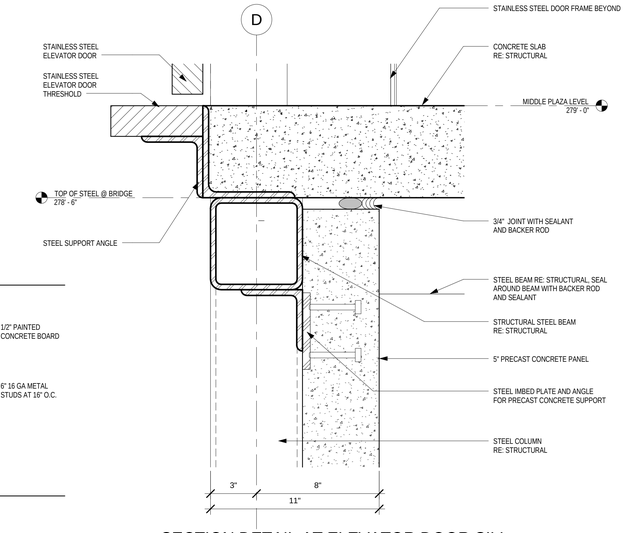
9 A5.1 SECTION DETAIL AT WALKWAY CONNECTION - ELEV 1
3" = 1'-0"



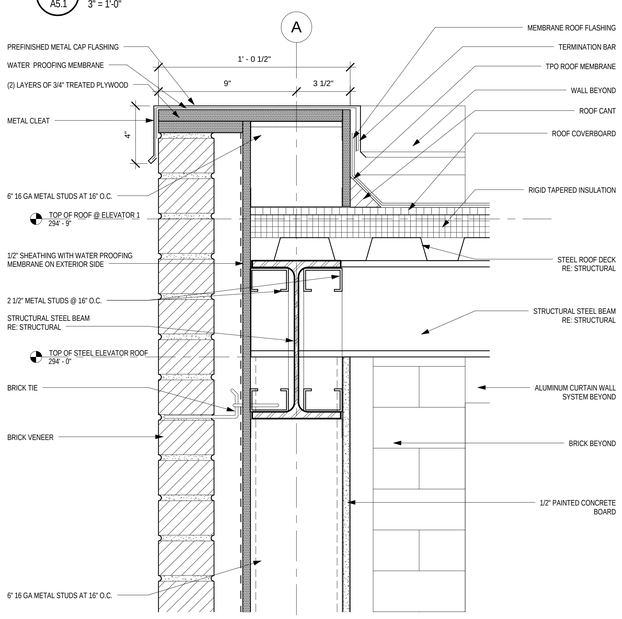
13 A5.1 SECTION DETAIL AT CANOPY AND CURTAIN WALL
3" = 1'-0"



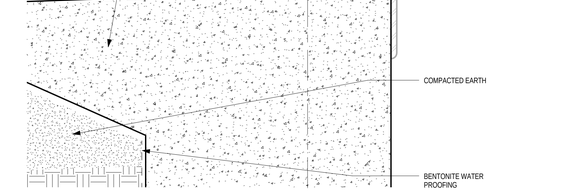
2 A5.1 SECTION DETAIL AT CANOPY EDGE
3" = 1'-0"



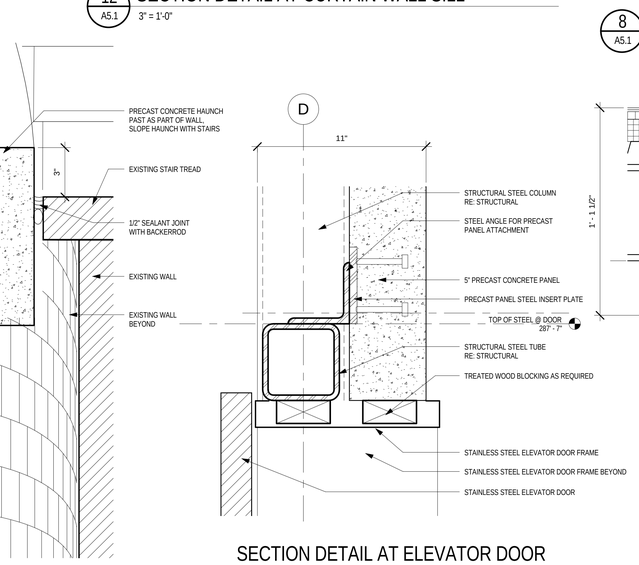
8 A5.1 SECTION DETAIL AT ELEVATOR DOOR SILL, MIDDLE LEVEL
3" = 1'-0"



3 A5.1 SECTION DETAIL AT ELEV DOOR HEAD IN BRICK WALL
3" = 1'-0"

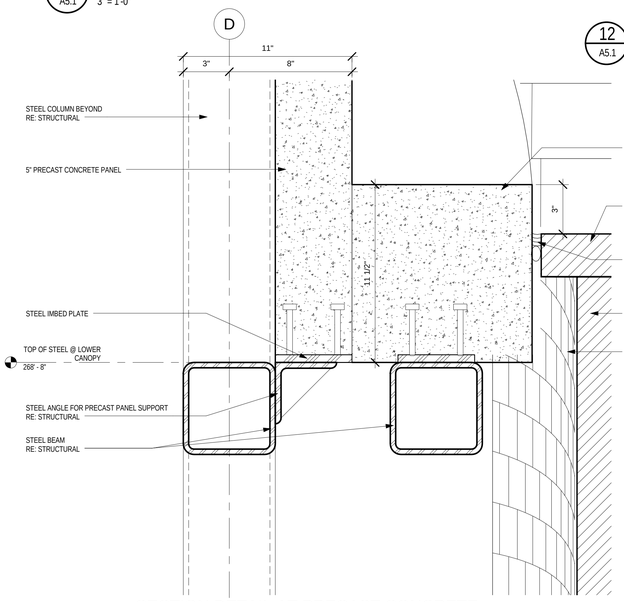


11 A5.1 SECTION DETAIL AT BRICK WALL BASE
3" = 1'-0"



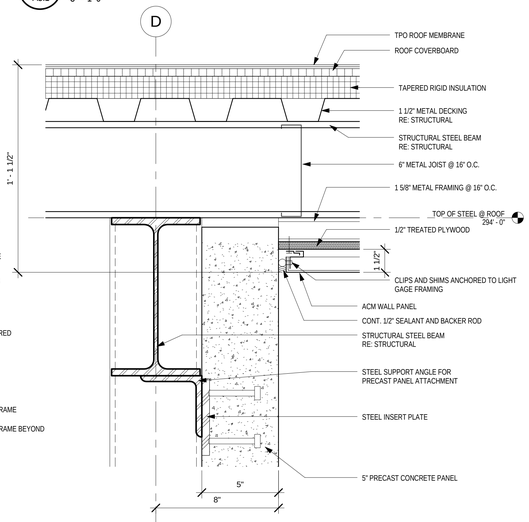
12 A5.1 SECTION DETAIL AT CURTAIN WALL SILL
3" = 1'-0"

4 A5.1 SECTION DETAIL AT ROOF EDGE
3" = 1'-0"



10 A5.1 SECTION DETAIL AT PRECAST CONCRETE HAUNCH
3" = 1'-0"

7 A5.1 SECTION DETAIL AT ELEVATOR DOOR HEAD IN PRECAST WALL
3" = 1'-0"



5 A5.1 SECTION DETAIL AT PRECAST / ROOF INTERSECTION
3" = 1'-0"

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 0547 p
803 799 0544 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

AE Seal
STATE OF SOUTH CAROLINA
The Boudreaux Group, Inc.
Columbia, South Carolina
B-7701c
REGISTERED ARCHITECTS

AE Seal
STATE OF SOUTH CAROLINA
DAVID WIESENBANGER
Columbia, SC
No. 8727
REGISTERED ARCHITECT

UNIVERSITY SOUTH CAROLINA
USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS
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701 Main Street
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SECTION DETAILS

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A5.1

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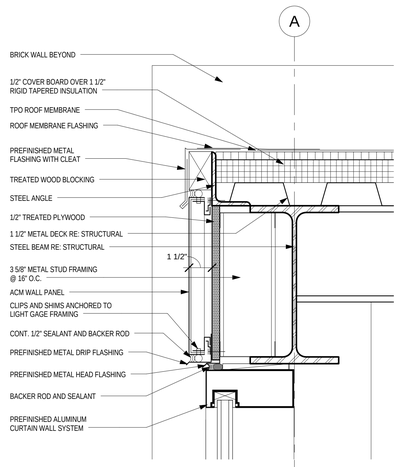
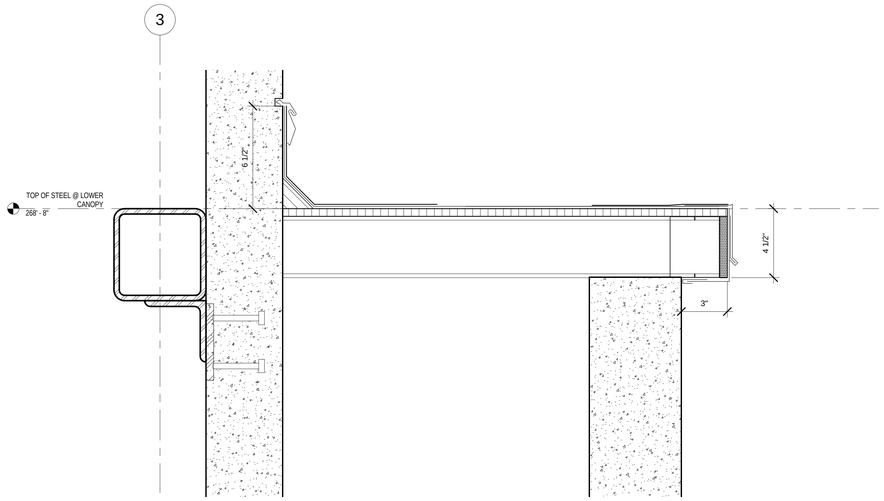


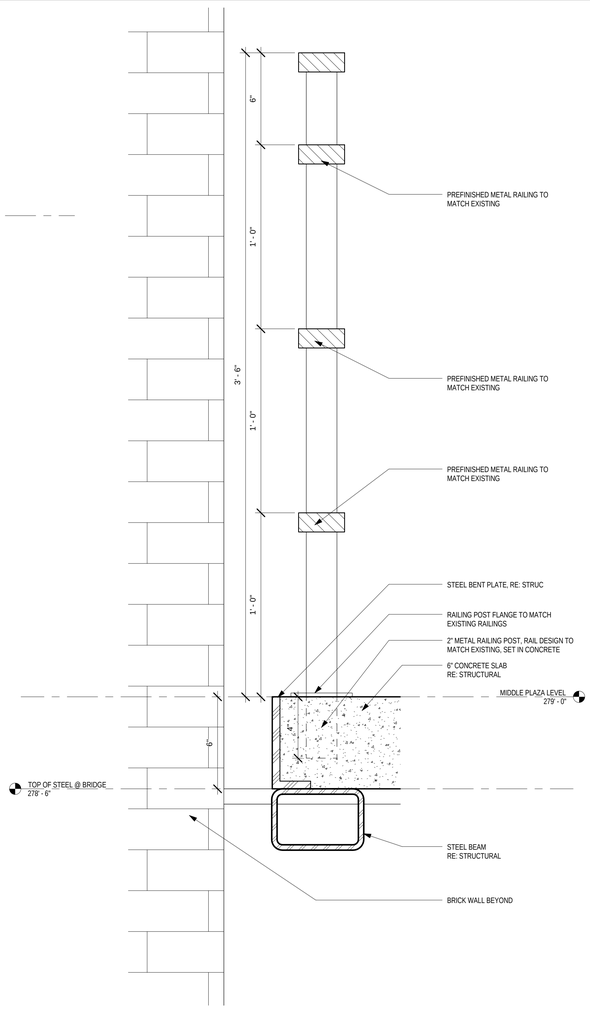
SECTION DETAIL AT ROOF EDGE AND CURTAIN WALL HEAD

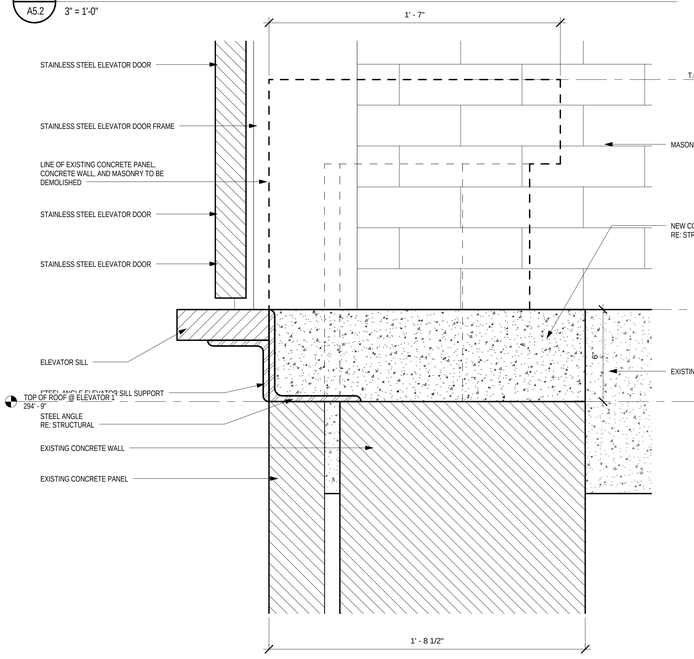
1 / A5.2 — 3" = 1'-0"



SECTION DETAIL AT ELEVATOR CLOSET ROOF

5 / A5.2 — 3" = 1'-0"





SECTION DETAIL AT PRECAST CONCRETE WALL BASE

6 / A5.2 — 3" = 1'-0"

SECTION DETAIL AT MID LEVEL BRIDGE PRECAST WALL BASE

2 / A5.2 — 3" = 1'-0"

SECTION DETAIL AT UPPER LEVEL ELEVATOR SILL

7 / A5.2 — 3" = 1'-0"

SECTION DETAIIL AT EDGE OF BRIDGE

9 / A5.2 — 3" = 1'-0"

SECTION DETAIL AT ROOF EDGE AND PRECAST WALL

4 / A5.2 — 3" = 1'-0"

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The Boudreaux Group

1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 0547 p
803 779 7464 f
info@boudreauxgroup.com

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A/E Seal

STATE OF SOUTH CAROLINA
The Boudreaux Group, Inc.
Columbia, South Carolina
C-7701C
REGISTERED ARCHITECTS

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STATE OF SOUTH CAROLINA
DAVID WIESENGANGER
Columbia, SC
No. 8727
REGISTERED ARCHITECT

UNIVERSITY SOUTH CAROLINA

USC ELEVATOR INSTALLATION AND TUNNEL IMPROVEMENTS

Law School Address:
701 Main Street
Columbia, South Carolina 29208

No.	Description	Date

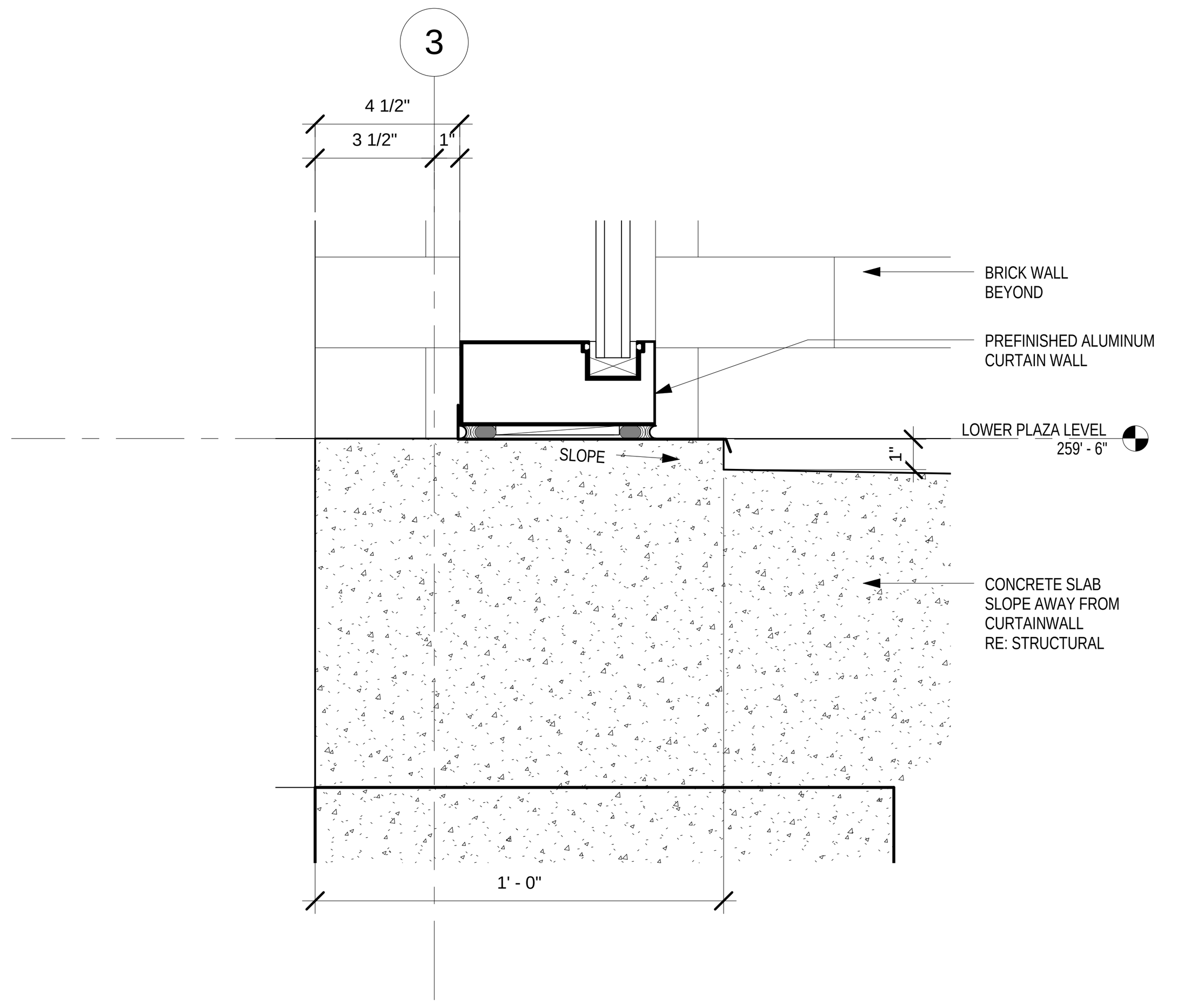
Project Number
HRT-2010
Drawn By
Author
Checked By
Checker
Date
MAY 31, 2013

Drawing Title.

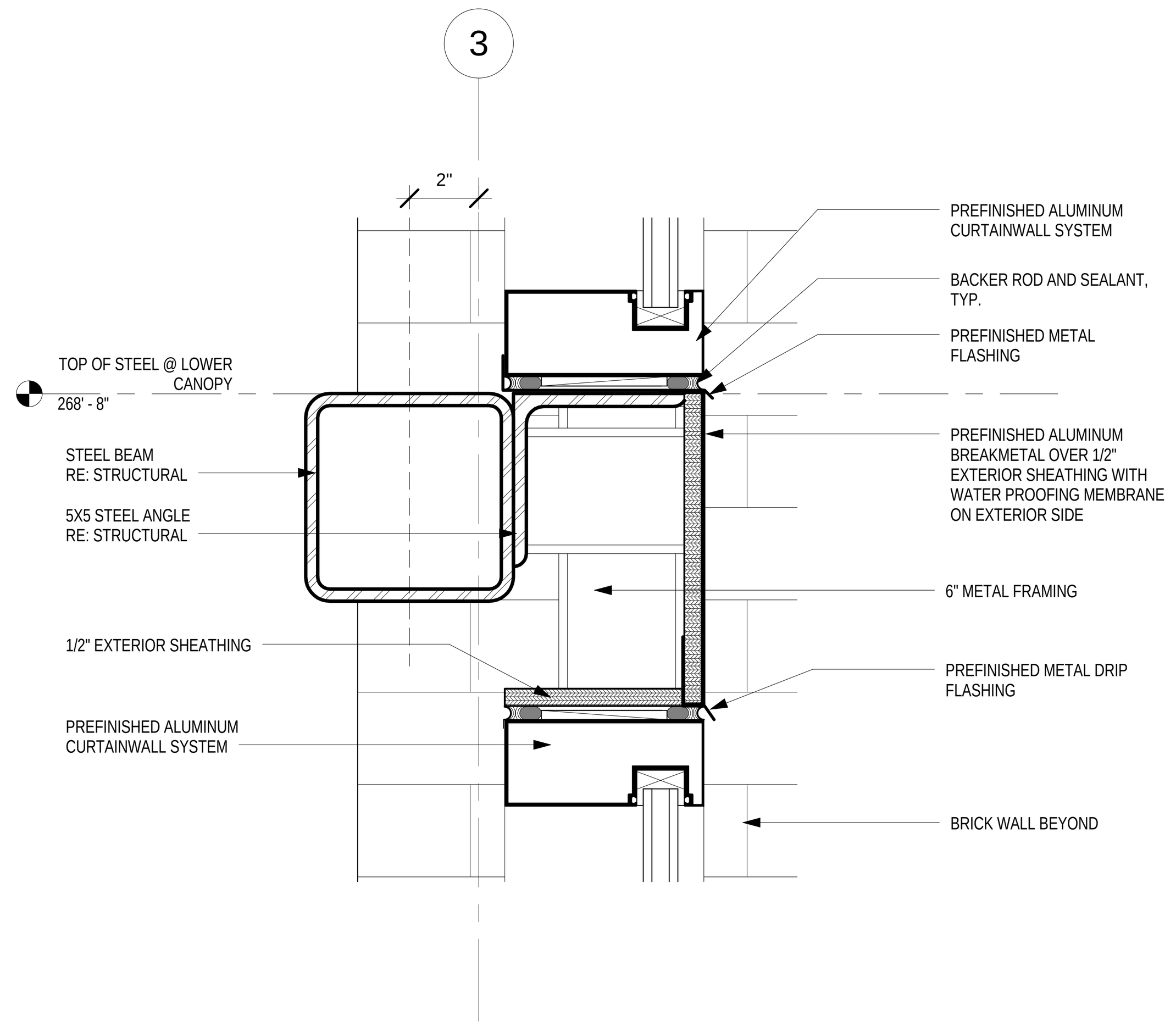
SECTION DETAILS

Drawing No.

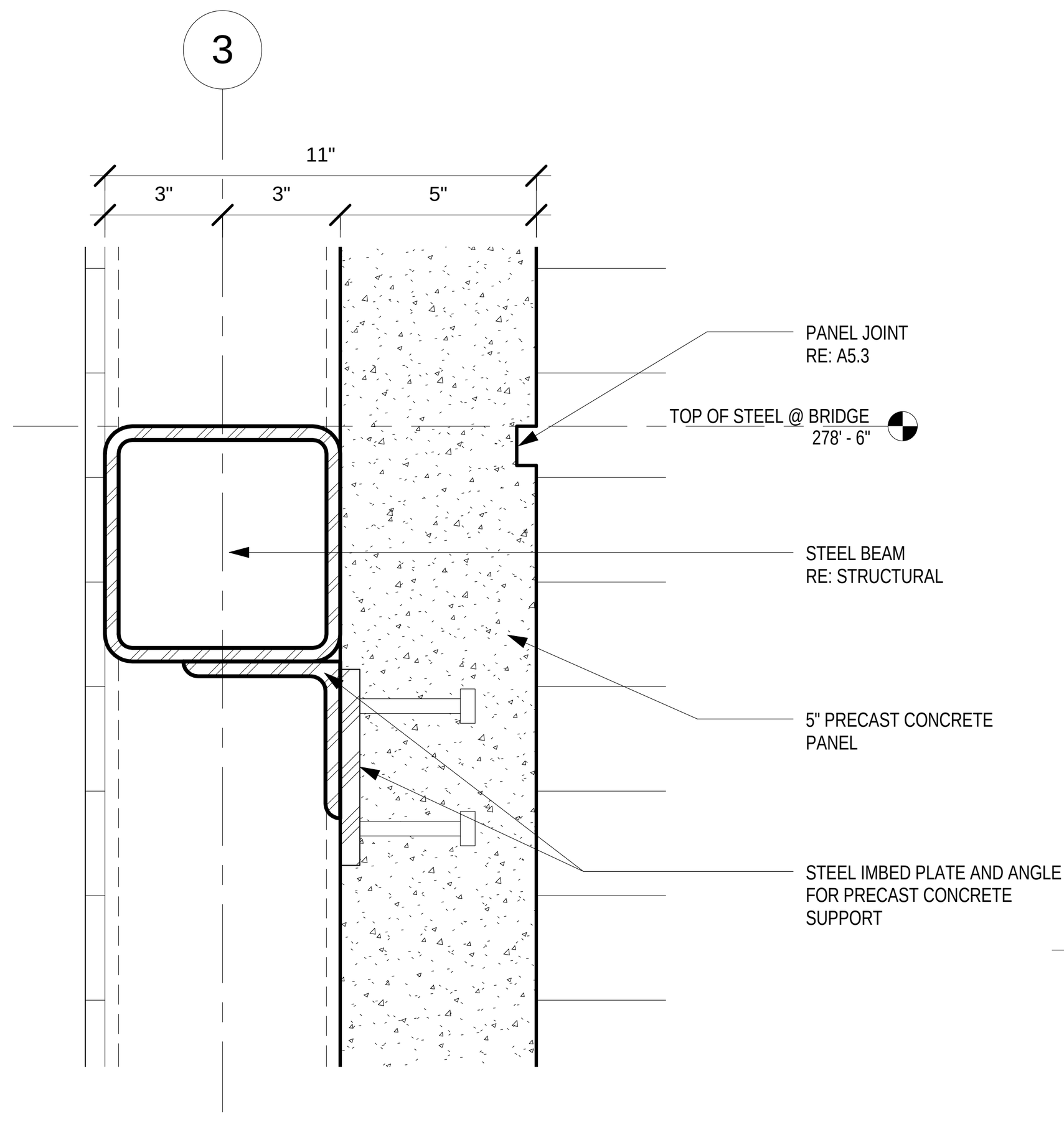
A5.2



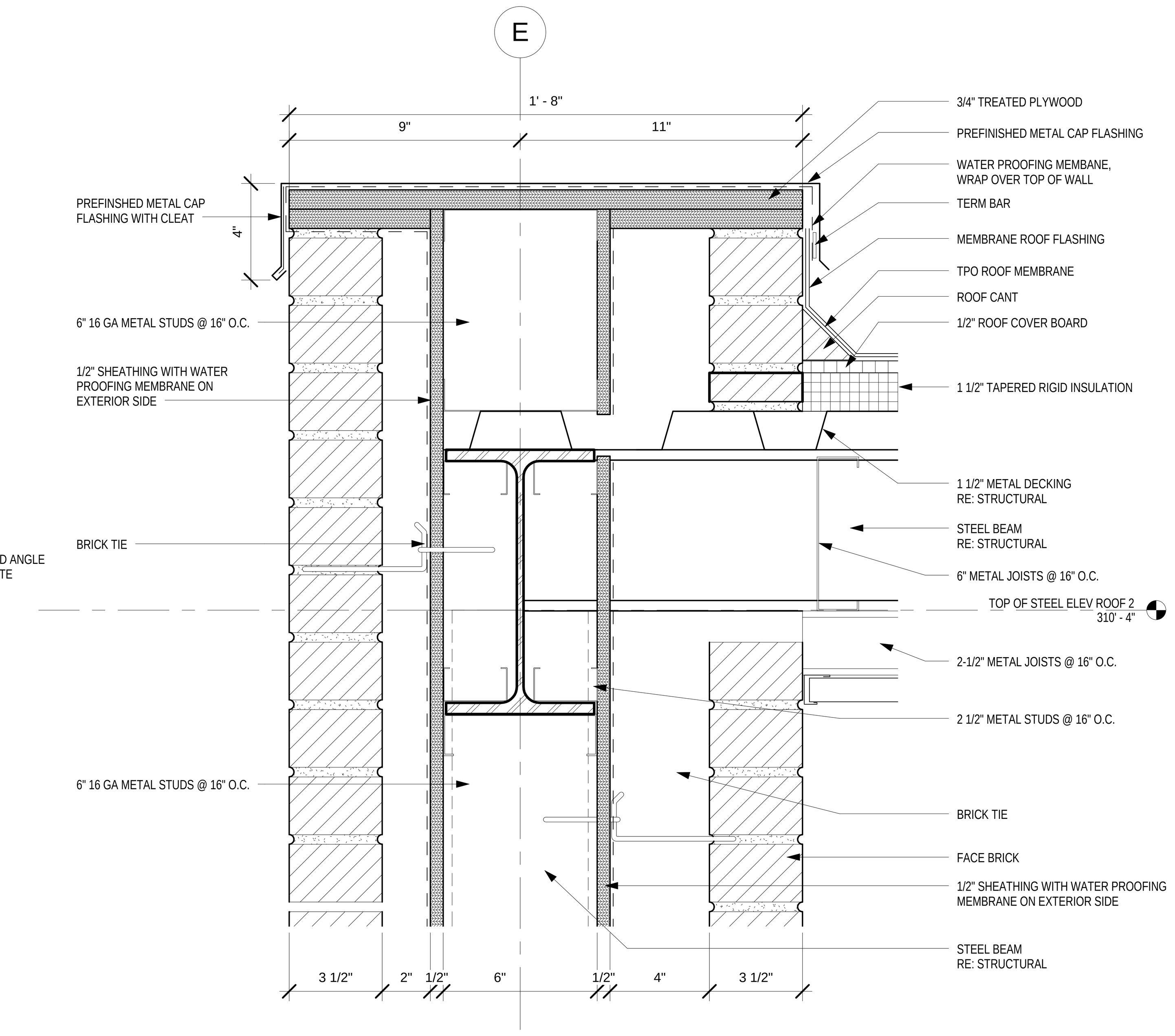
1 A5.3 SECTION DETAIL AT CURTAINWALL BASE
3" = 1'-0"



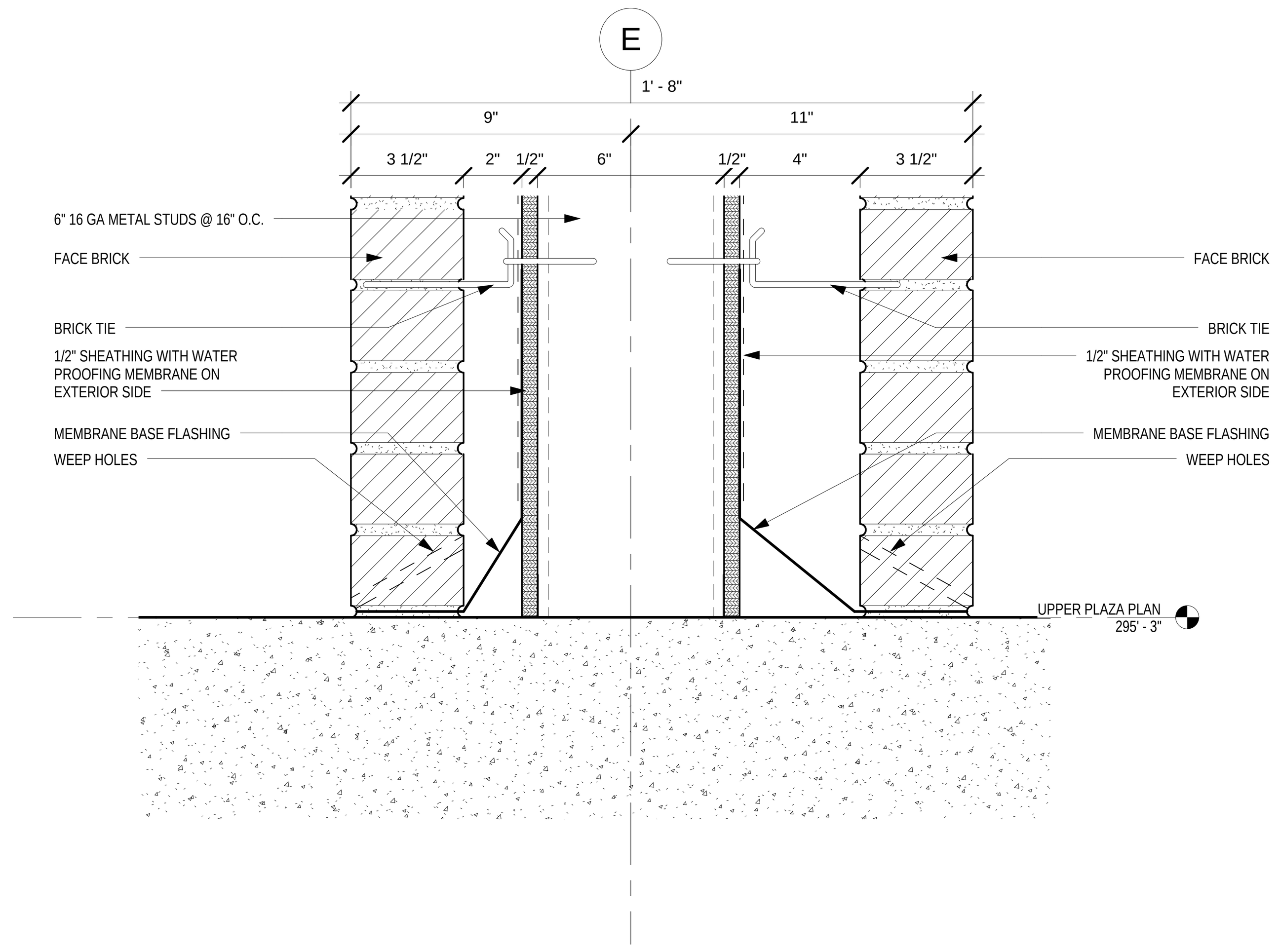
2 A5.3 SECTION DETAIL AT METAL FASCIA PANEL AND CURTAIN WALL SYSTEM
3" = 1'-0"



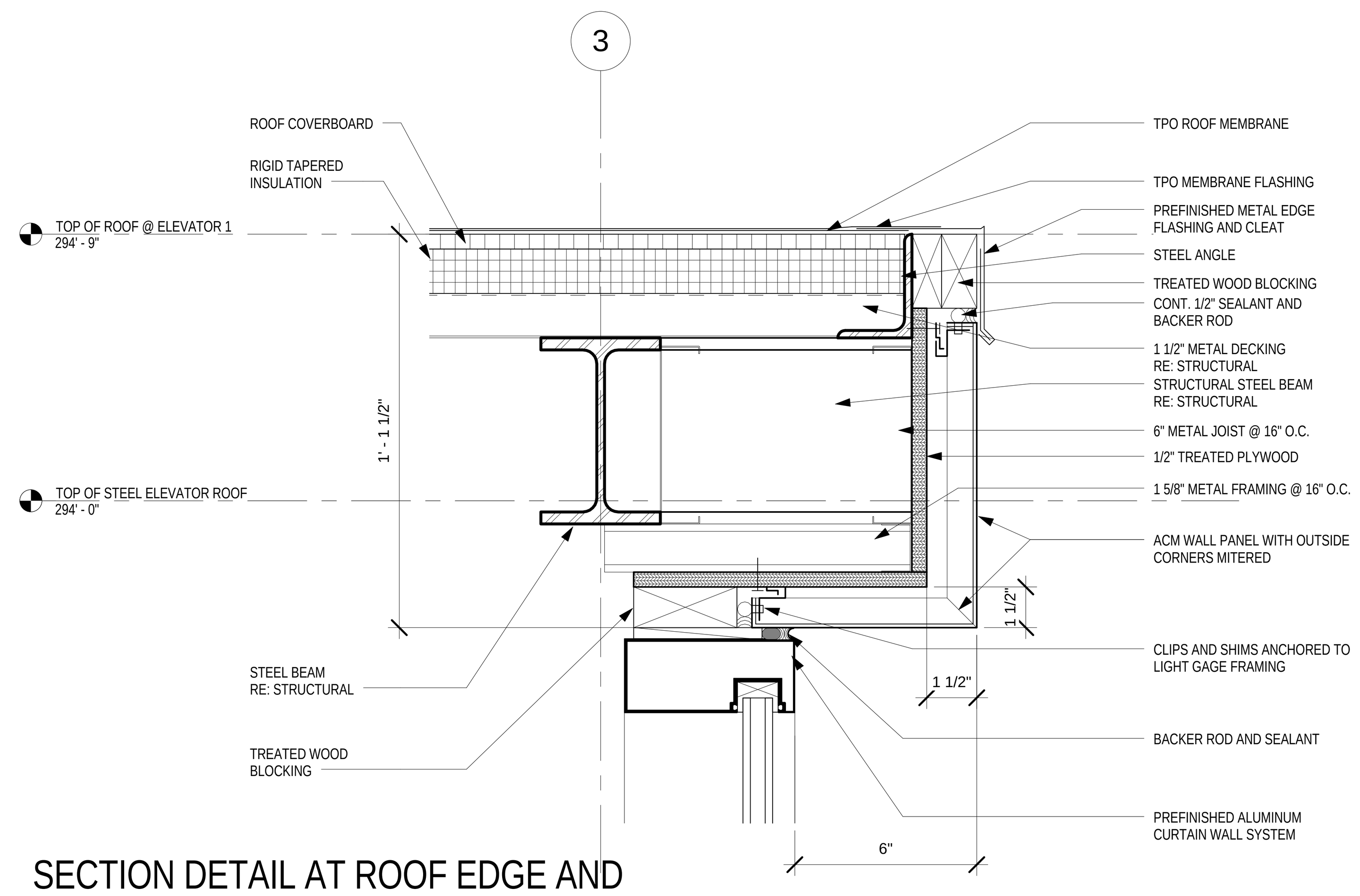
3 A5.3 SECTION DETAIL AT PRECAST PANEL SUPPORT
3" = 1'-0"



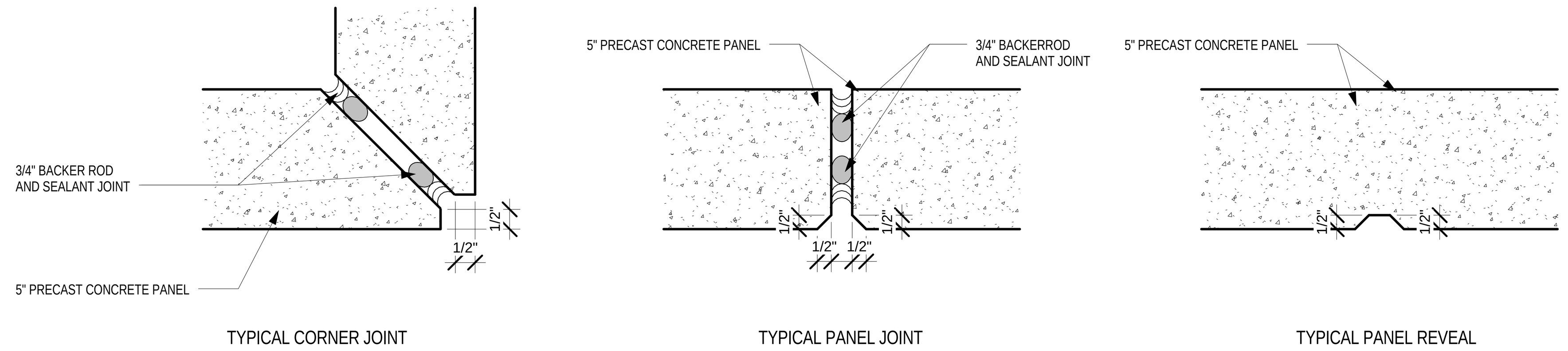
4 A5.3 SECTION DETAIL AT BRICK WING WALL ROOF UPPER LEVEL
3" = 1'-0"



5 A5.3 SECTION DETAIL AT BRICK WING WALL BASE UPPER LEVEL
3" = 1'-0"



6 A5.3 SECTION DETAIL AT ROOF EDGE AND CURTAIN WALL HEAD
3" = 1'-0"



7 A5.3 TYP. PRECAST DETAILS
3" = 1'-0"

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The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 8695
Columbia, SC 29250
803 799 0247 p
803 771 6844 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal
STATE OF SOUTH CAROLINA
The Boudreaux Group, Inc.
Columbia, South Carolina
B-77010
REGISTERED ARCHITECTS

A/E Seal
STATE OF SOUTH CAROLINA
DAVID WIESENBERGER
Columbia, SC
No. 6727
REGISTERED ARCHITECT

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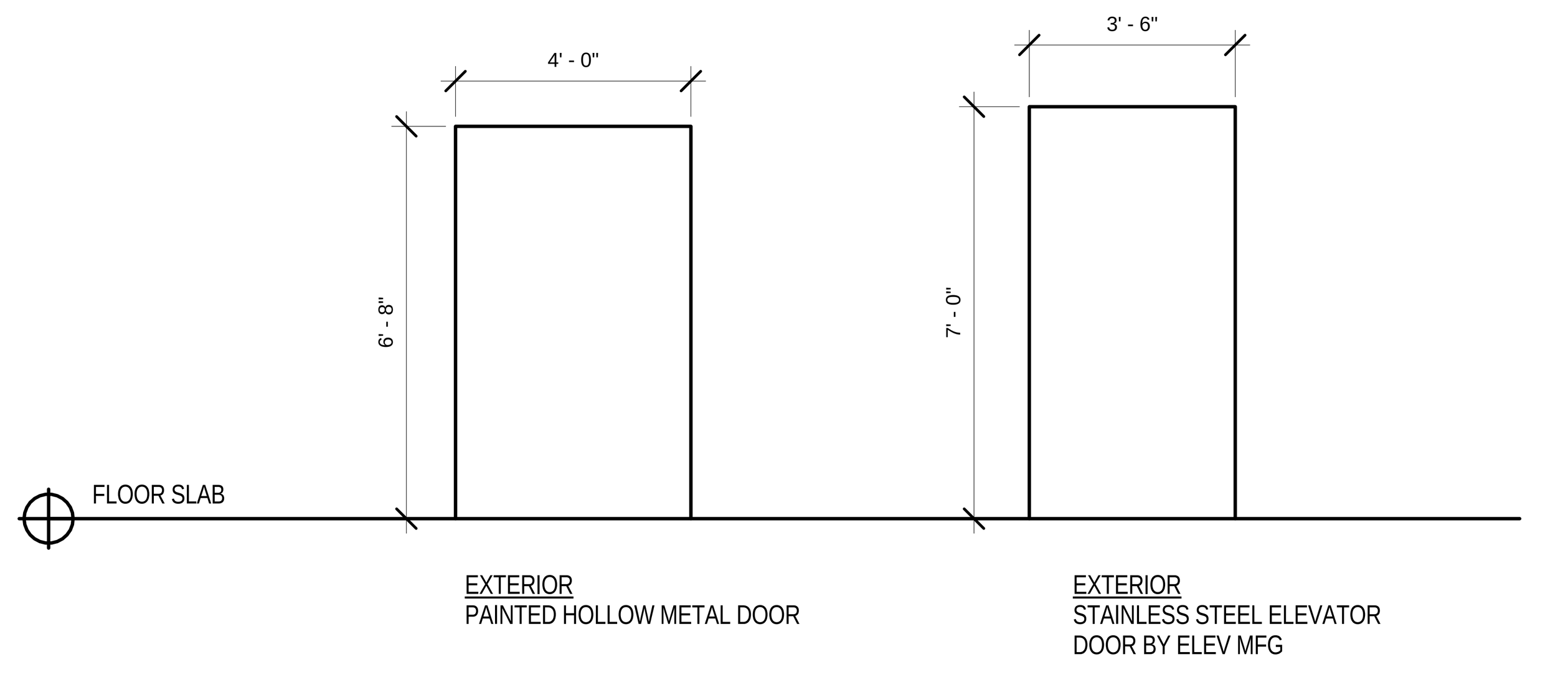
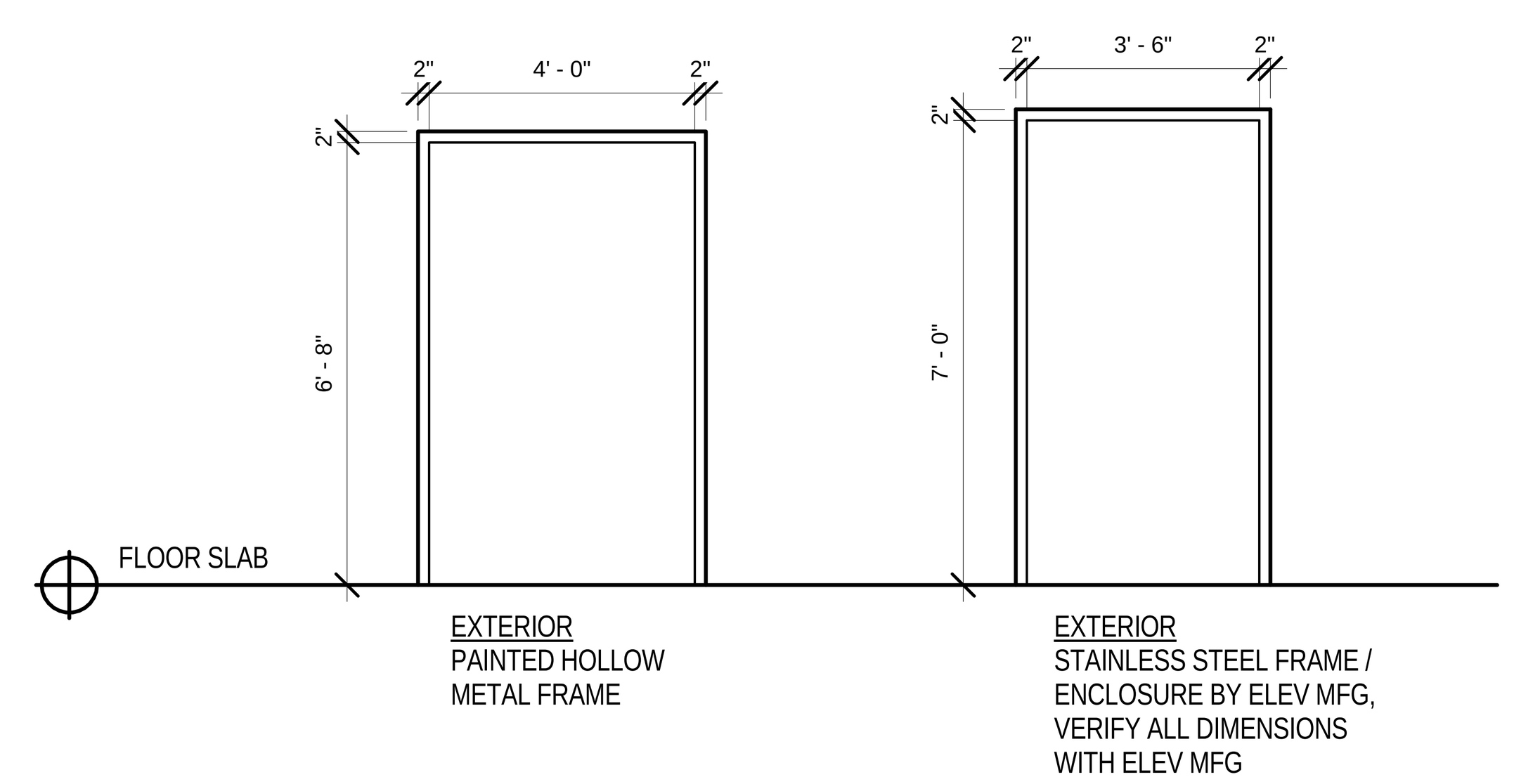
SECTION DETAILS

Drawing No.
A5.3



DOOR ELEVATIONS

3/8" = 1'-0"

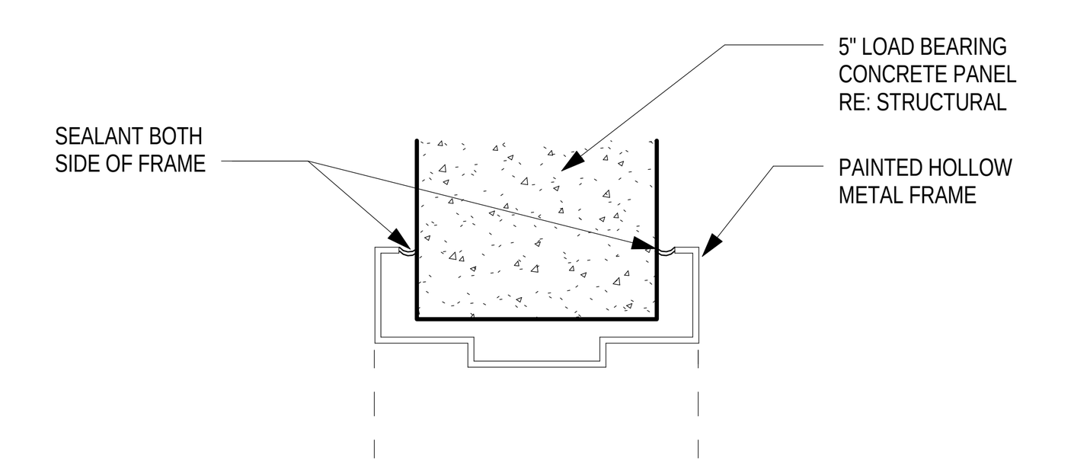


FRAME ELEVATIONS

3/8" = 1'-0"

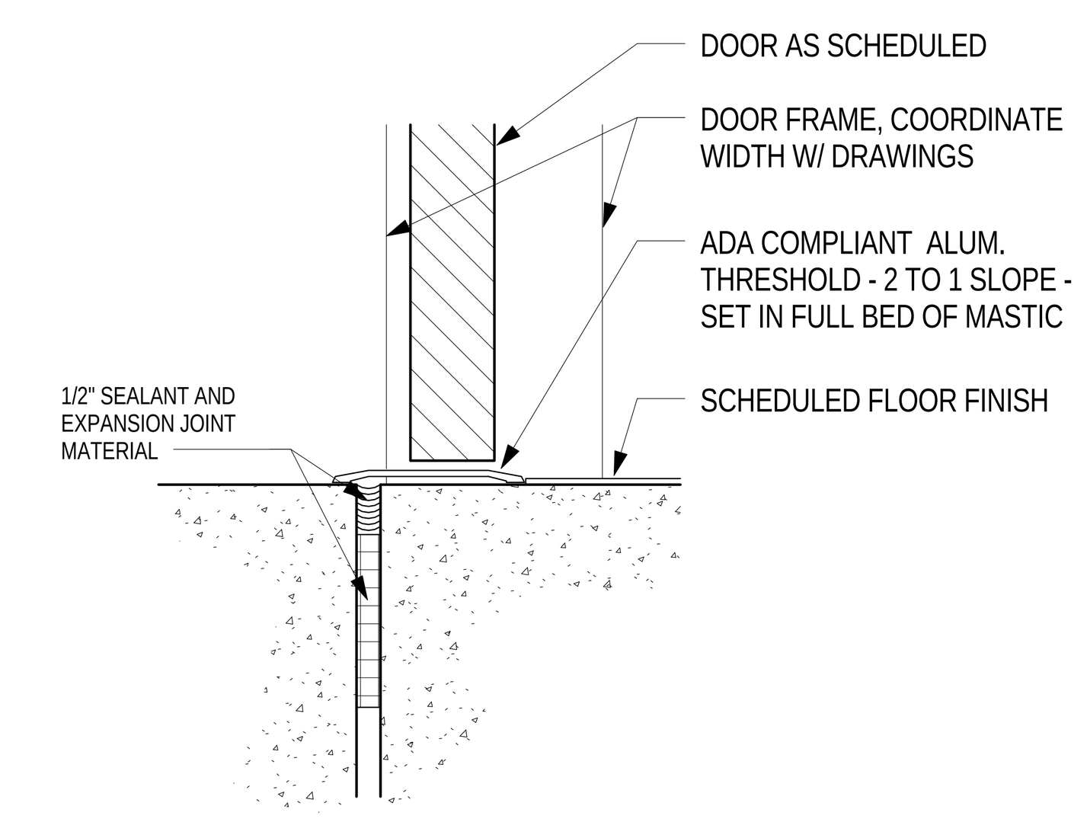
DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	FRAME TYPE	FRAME HEAD	FRAME JAMB	FRAME SILL	FIRE RATING	HDWR	REMARKS
102	4' - 0"	6' - 8"	D1	F1	2A6.1	6A2.1	3A6.1	NA		
202	4' - 0"	6' - 8"	D1	F1	2A6.1	6A2.1	3A6.1	NA		
101	3'-6"	7'-0"	D2	F2	3A5.1	3A2.1	1A5.1	NA		DOOR, FRAME, HARDWARE BY ELEV MFG
103	3'-6"	7'-0"	D2	F2	7A5.1	8A2.1	8A5.1	NA		DOOR, FRAME, HARDWARE BY ELEV MFG
201	3'-6"	7'-0"	D2	F2	3A5.1	3A2.1	1A5.1	NA		DOOR, FRAME, HARDWARE BY ELEV MFG
203	3'-6"	7'-0"	D2	F2	7A5.1	8A2.1	8A5.1	NA		DOOR, FRAME, HARDWARE BY ELEV MFG



2 PRECAST DOOR HEAD DETAIL

A6.1 3" = 1'-0"



3 PRECAST DOOR THRESHOLD

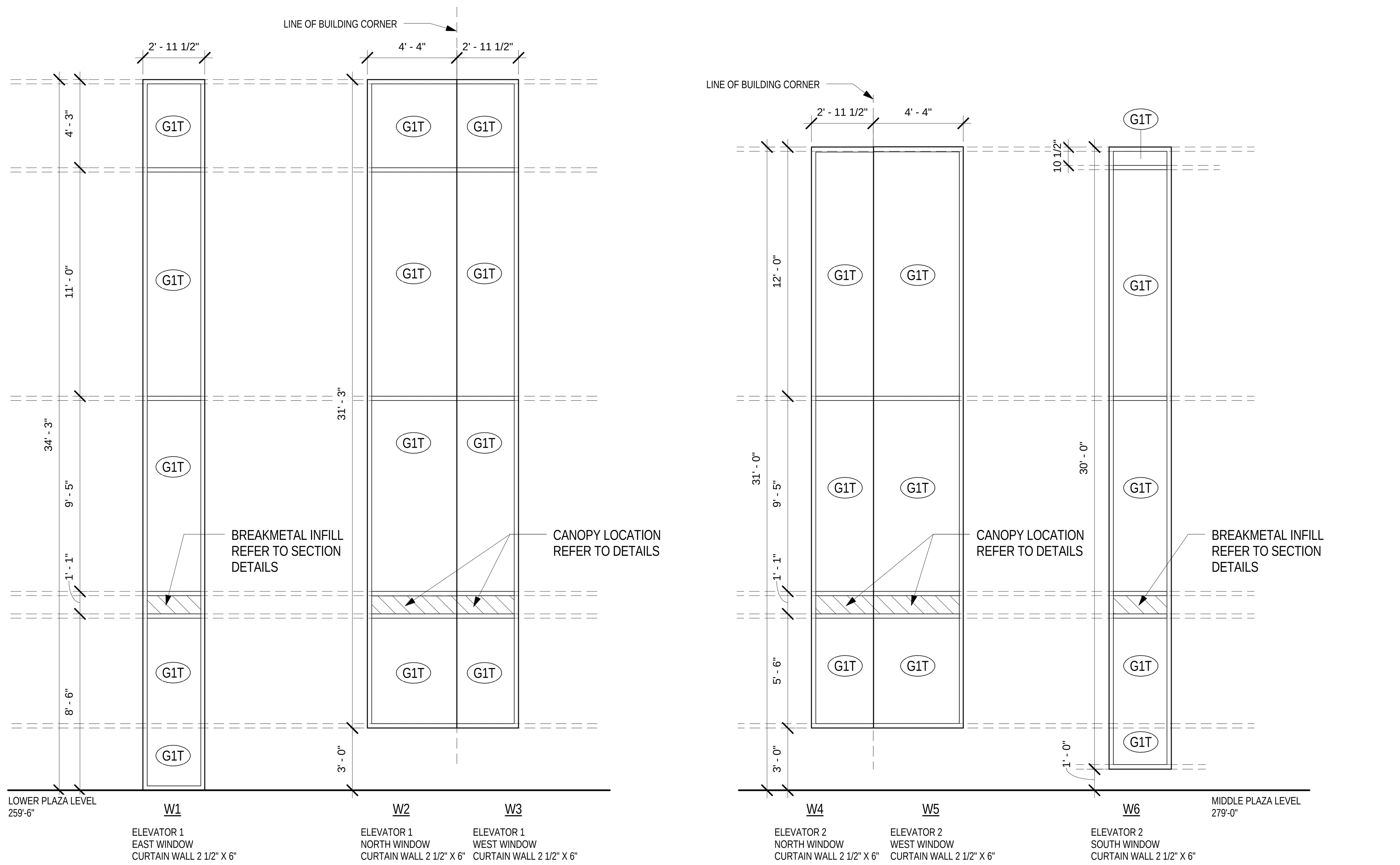
A6.1 3" = 1'-0"

WINDOW SCHEDULE

MARK	TYPE MARK	WIDTH	HEIGHT	HEAD	JAMB	SILL	SILL HEIGHT	COMMENTS
W1	W1	2'-11 1/2"	34'-3"	6A5.3	4A2.1 / 5A2.1	1A5.3	0'-0"	
W2	W2	4'-4"	31'-3"	1A5.2	3A2.1	12A5.1	3'-0"	
W3	W3	2'-11 1/2"	31'-3"	1A5.2	2A2.1	12A5.1	3'-0"	
W4	W4	2'-11 1/2"	31'-0"	1A5.2	2A2.1	12A5.1	3'-0"	
W5	W5	4'-4"	31'-0"	1A5.2	3A2.1	12A5.1	3'-0"	
W6	W6	2'-11 1/2"	30'-0"	6A5.3	4A2.1 / 5A2.1	1A5.3 SIM	1'-0"	

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISHES: FLOOR	FLOOR FINISHES: BASE	WALL FINISHES: NORTH	WALL FINISHES: EAST	WALL FINISHES: SOUTH	WALL FINISHES: WEST	CEILING FINISH	REMARKS
LOWER PLAZA LEVEL									
101	ELEVATOR SHAFT 1	CONC	NONE	PAINT	PAINT	PAINT	PAINT	OPEN / PAINT	
102	EQUIP ROOM	CONC	NONE	PAINT	PAINT	PAINT	PAINT	OPEN	
MIDDLE PLAZA LEVEL									
103	ELEVATOR CAB 1		STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINELSS STEEL	ALL FINISHES BY ELEV MFG
201	ELEVATOR SHAFT 2	CONC	NONE	PAINT	PAINT	PAINT	PAINT	OPEN / PAINT	
202	EQUIP ROOM	CONC	NONE	PAINT	PAINT	PAINT	PAINT	OPEN	
UPPER PLAZA PLAN									
203	ELEVATOR CAB 2		STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINELSS STEEL	ALL FINISHES BY ELEV MFG
OVERALL SITE PLAN									
103	PEDESTRIAN TUNNEL	EXISTING	NONE	PAINT	PAINT	PAINT	PAINT	PAINT	EXISTING WALLS AND CEILING TO BE PAINTED



1 WINDOW ELEVATIONS

A6.1 1/4" = 1'-0"

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The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 2695
Columbia, SC 29250
803 799 0247 p
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Drawing Title:
DOOR, WINDOW, FINISH SCHEDULES AND DETAILS

Drawing No.
A6.1

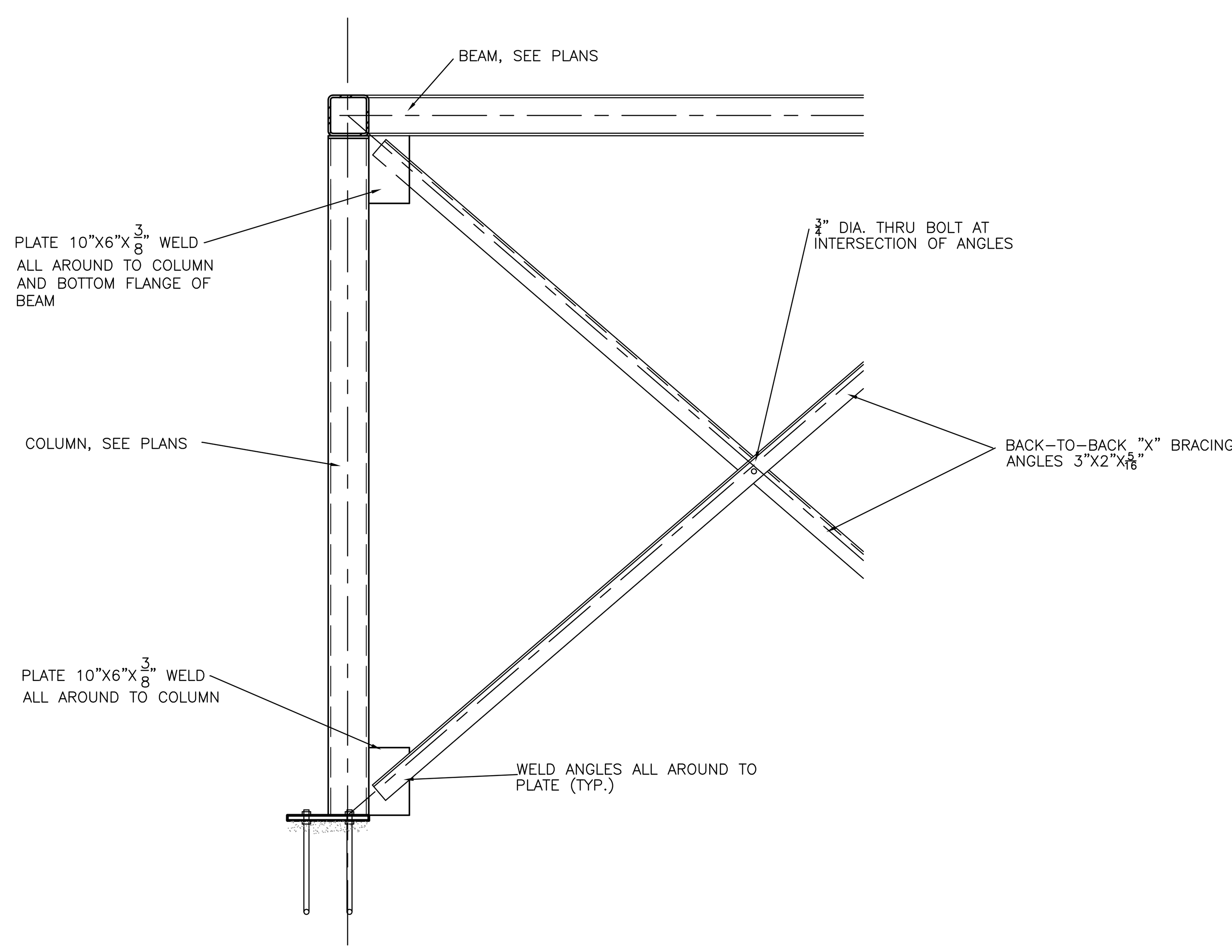
GENERAL NOTES:

1. BUILDING CODE – IBC 2006

2. LOADS:
   A. LIVE: ....100 PSF
   B. DEAD: ACTUAL WEIGHTS OF MATERIALS, EQUIPMENT
   D.WIND DESIGN DATA
      (1) BASIC WIND SPEED – 100 MPH
      (2) WIND IMPORTANCE FACTOR Iw=1.0, EXPOSURE C.
   E. EARTHQUAKE DESIGN DATA
      (1) SEISMIC IMPOTANCE FACTOR I=1.0, OCCUPANCY CATEGORY II
      (2) SS=.55, S1=.15
      (3) SITE CLASS D (ASSUMED)
      (4) SDS=.51, SD1=.2
      (5) SEISMIC DESIGN CATEGORY "D"
      (6) BUILDING FRAME SYSTEM – ORDINARY STEEL CONCENTRICALLY BRACED FRAMES AND ORDINARY PRECAST SHEARWALLS
      (7) DESIGN BASE SHEAR V = 4 KIPS
      (8) CS=.157
      (9) R=3.25
      (10) EQUIVALENT LATERAL FORCE PROCEDURE
3. CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
   a. NORMAL WEIGHT (150 PCF) 4000 PSI FOR ALL CONCRETE AND MISCELLANEOUS CONCRETE.
4. ALL REINFORCING BARS TO HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
5. CONCRETE FORMWORK:
   a. ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI STANDARD 347 RECOMMENDED PRACTICE FOR CONCRETE FORMWORK.
   b. RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL FORM, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOAD, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
   c. TOLERANCE: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO ACI STANDARD 117, STANDARD TOLERANCE FOR CONCRETE CONSTRUCTION AND MATERIALS. THE CONTRACTOR SHALL ENGAGE A LICENSED SURVEYOR TO VERIFY THAT WORK IS WITHIN SPECIFIED TOLERANCES.
   d. ALL PERMANENTLY VISIBLE EDGES OF CONCRETE SHALL HAVE A 3/4" CONTINUOUS CHAMFER. THIS INCLUDES ALL SLABS, BEAMS, COLUMNS, AND WALLS.
6. CHECK WITH VARIOUS TRADES FOR SLEEVES, OPENINGS, CONDUITS, ETC. BEFORE POURING CONCRETE.
7. ALL WALLS (CONCRETE OR MASONRY) EXPOSED TO SOIL ON ONE SIDE SHALL BE THOROUGHLY WATERPROOFED.
8. ALL CONCRETE WALLS, BEAMS, RAILS, ETC. SHALL HAVE CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT, UNLESS NOTED OTHERWISE.
9. PROVIDE AND INSTALL ALL PLATES, ANGLES, REINFORCING, ETC., EMBEDDED IN CAST-IN-PLACE CONCRETE.
10. VERIFY LOCATIONS OF ALL WALLS, OPENINGS, DEPRESSIONS, CHAMFERS, BRICK LEDGES, ANCHOR SLOTS, REGLETS, ETC. WITH ARCHITECTURAL DRAWINGS.
11. VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
12. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
13. SEE ARCHITECTURAL DRAWINGS FOR EXTREMITIES OF CONCRETE SLABS.
14. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS BEFORE ANY FABRICATION HAS STARTED.
15. PROVIDE AND INSTALL ALL TEMPORARY BRACING AS REQUIRED FOR SAFETY/STABILITY OF THE STRUCTURE UNTIL STRUCTURE IS COMPLETE.
16. ALL CONCRETE SLABS ON GRADE TO BE 6" THICK REINFORCED WITH WWF 6 X 6– W2.0 X W2.0 (UNLESS NOTED OTHERWISE).
17. ALL CONCRETE SLABS TO SLOPE TO FLOOR DRAINS, IN ROOMS OR AREAS THAT HAVE FLOOR DRAINS. SEE ARCHITECTURAL PLANS AND PLUMBING PLANS FOR LOCATIONS.
18. NOTE THAT THE MECHANICAL EQUIPMENT SHOWN ON THE STRUCTURAL DRAWINGS IS FOR GENERAL INFORMATION ONLY. DO NOT LOCATE THE EQUIPMENT FROM THE STRUCTURAL DRAWINGS. SEE MECHANICAL DRAWINGS FOR LOCATIONS. RE-SPACE AND LOCATE DOUBLE JOIST ETC. AS NECESSARY TO SUIT EQUIPMENT SELECTED. BUILDING CONTRACTOR SHALL COORDINATE DIMENSIONS AND LOCATIONS OF ANGLE FRAMES AND STRUCTURAL SUPPORT FOR MECHANICAL EQUIPMENT AND HOLES IN ROOFS AND FLOOR SLABS WITH MECHANICAL CONTRACTOR AND EQUIPMENT SUPPLIER.
19. CONTRACTOR SHALL VISIT SITE TO BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AND SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, FRAMING CONDITIONS, AND CONNECTIONS BEFORE BEGINNING CONSTRUCTION OR ANY FABRICATION.
20. WHERE DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.
21. STRUCTURAL STEEL:
   a. STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS, UNLESS NOTED OTHERWISE ON PLANS:
      i. ALL ROLLED ANGLES, CHANNELS, PLATES, BARS A-36(Fy=36ksi) MATERIAL FOR ALL BRACING RODS SHALL BE ASTM-572, GRADE. 50.
      ii. ALL ROLLED W SHAPES, BEAMS, COLUMNS A-992(Fy=50ksi)
      iii. ALL BASE PLATES AND ANCHOR BOLTS (UNLESS NOTED OTHERWISE) A-36(Fy=36ksi)
      iv. STRUCTURAL STEEL PIPE ------------- A-53(Fy=35ksi)
      v. STRUCTURAL STEEL TUBE ------------- A-500(Fy=46ksi)
   b. BOLTED CONNECTIONS:
      i. ALL CONNECTIONS (UNLESS NOTED OTHERWISE) SHALL BE MADE WITH 3/4" DIAMETER A-325X OR A-490X BOLTS.
      ii. OVERSIZE OR LONG SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON STRUCTURAL PLANS.
      iii. THE SHOP DRAWINGS SHALL CLEARLY INDICATE THE TYPE OF BOLTS USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.
      iv. THE FOLLOWING MINIMUM STANDARDS APPLY:
         (1) MINIMUM PLATE THICKNESS = 3/8"
         (2) MINIMUM BOLT DIAMETER = 3/4"
         (3) MINIMUM WELD = 3/16" THICK THROAT
         (4) MINIMUM DESIGN LOAD ON ANY CONNECTION = 15kips
   c. WELDED CONNECTIONS:
      i. ALL SHOP AND FIELD WELDING SHALL CONFORM TO ASW STRUCTURAL WELDING CODE-STEEL, ANSI/AWS – D1.1
      ii. MINIMUM WELD = 3/16" THICK THROAT
   d. SPLICING OF STRUCTURAL STEEL WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVED OF THE ENGINEER.
   e. BEAM CONNECTIONS:
      i. DESIGN CONNECTIONS FOR ROOF BEAM TO BEAM AND/OR BEAM TO COLUMN TO SUPPORT 60% PERCENT OF THE UNIFORM CAPACITY SHOWN IN AISC "TABLES FOR ALLOWABLE LOADS ON BEAMS" FOR THE GIVEN SECTION AND SPAN UNLESS NOTED OTHERWISE OR REQUIRED.
      ii. DESIGN CONNECTIONS FOR COMPOSITE BEAM TO BEAM AND/OR BEAM TO COLUMN TO SUPPORT 75% PERCENT OF THE UNIFORM CAPACITY SHOWN IN AISC "TABLES FOR ALLOWABLE LOADS ON BEAMS" FOR THE GIVEN SECTION AND SPAN UNLESS NOTED OTHERWISE OR REQUIRED.
   f. GALVANIZING: HOT-DIP GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL ITEMS AND THEIR CONNECTIONS PERMANENTLY EXPOSED TO WEATHER. EXAMINE DRAWINGS FOR OTHER ITEMS TO BE GALVANIZED.
   g. CHANNEL – ANGLE SYSTEM (MISCELLANEOUS STEEL)
      i. MITER AND WELD ANGLES TOGETHER AT CORNERS.
   h. MISCELLANEOUS STEEL
      i. IF NOT SHOWN ON CONTRACT DOCUMENTS PROVIDE A CONTINUOUS 1/4" WELD FOR ALL FIELD WELDS ON MISCELLANEOUS CONNECTIONS.
22. AFTER STEEL BEARING PLATES HAVE BEEN PROPERLY LOCATED AND ALIGNED, GROUT PLATES SOLIDLY WITH GROUT WORKED UNDER STEEL TO COMPLETELY FILL SPACE.
23. WELD ALL STEEL BEAMS, LINTELS, AND JOISTS TO BEARING PLATES AFTER DEAD LOADS ARE IN PLACE.
24. ALL WEDGE ANCHORS AT MASONRY WALLS TO HAVE A MINIMUM EMBEDMENT OF 6".
25. PROVIDE 4" x 4" x 1/4" ANGLE FRAME (SPANNING BETWEEN JOISTS OR OTHER STRUCTURE) FOR ROOF DRAINS, EQUIPMENT, OR OPENINGS IN ROOF CAUSED BY EQUIPMENT NOT SHOWN ON STRUCTURAL DRAWINGS.
26. PROVIDE ANGLES 4" x 4" x 1/4" SPANNING BETWEEN JOISTS (WELD TO TOP CHORDS OF JOISTS) AT ROOFTOP MECHANICAL UNITS TO SUPPORT CURB.
27. DO NOT SHOP-PRIME STRUCTURAL STEEL THAT IS TO RECEIVE SPRAY-ON FIREPROOFING MATERIAL.
28. ALL REINFORCING SPLICES SHALL HAVE A TENSION SPLICE LENGTH UNLESS NOTED OR SPECIFIED OTHERWISE.
29. DO NOT HANG ANY PIPING, DUCTWORK, OR EQUIPMENT FROM THE ROOF OR FLOOR DECK.
30. STEEL ROOF DECK: (PROVIDE FACTORY PRIME FINISH OVER G90 GALVANIZED FINISH ON BOTTOM SIDE FOR ALL EXPOSED DECKING)
   a. ALL STEEL ROOF DECK SHALL BE 1 1/2" DEEP 22 GAGE TYPE "B" ROOF DECK – GALVANIZED – G90 AS MANUFACTURED BY CONSOLIDATED SYSTEMS INC. OR APPROVED EQUAL.
   b. ROOF DECK SHALL BE PLACED IN AT LEAST TWO SPAN SEGMENTS. NO SINGLE SPAN CONDITIONS SHALL BE USED.
   c. STEEL DECK SHALL CONFORM TO ASTM A653 STRUCTURAL QUALITY GRADE "33" FOR GALVANIZED DECK. MINIMUM YIELD STRENGTH SHALL BE 33,000 PSI.
   d. STEEL DECK SHALL BE GALVANIZED WITH A PROTECTIVE ZINC COATING CONFORMING TO ASTM 924 – G90.
   e. ATTACHMENT:
      i. SEE SPECS
      ii. PROVIDE A MINIMUM END BEARING OF 2" OVER SUPPORTS.
      iii. END LAPS OF SHEETS SHALL BE A MINIMUM OF TWO INCHES AND SHALL OCCUR OVER SUPPORTS.
31. REVIEW OF SUBMITTAL AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENTS DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS, AND SUPPLIERS.
32. THE DESIGN OF PREENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, SUPPLIER, AND ITS DESIGN ENGINEER, LICENSED IN THE PROJECT STATE. SUBMITTAL OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND OR SIZES OF MEMBERS, SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS. SEE SPECIFIC SECTIONS OF GENERAL NOTES ABOVE AND SPECIFICATIONS FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND IT'S LICENSED ENGINEER.
33. DRAWINGS INDICATE GENERAL ARRANGEMENT AND DIMENSIONS AND ARE, GENERALLY, DRAWN TO SCALE. HOWEVER, SCALE DIMENSIONS SHALL NOT BE USED. OBTAIN DIMENSIONS FROM ARCHITECT, WHEN NOT GIVEN IN FIGURES. REFER TO THE ARCHITECT AND ENGINEER ANY INCONSISTENCIES FOUND.
34. WHERE A CONFLICT EXISTS BETWEEN STRUCTURAL AND ARCHITECTURAL, USE STRUCTURAL FOR ITEMS RELATING TO STRUCTURAL STRENGTH SUCH AS VERTICAL REINFORCING IN MASONRY WALLS, FOOTING SIZE, FOOTING ELEVATION, REINFORCING, MEMBER SIZE, ETC.
35. ALL TUBE STEEL TO TUBE STEEL CONNECTIONS SHALL BE 80% PARTIAL PENETRATION WELDS.
36. CRACK FILLER: IF CRACK REPAIRS IN CONCRETE SLABS BECOME NECESSARY UNDER THE TERMS OF THESE NOTES, USE CRACK-FILL 4 MADE BY METZGER/MCGUIRE (FOLLOW THE MANUFACTURER'S RECOMMENDATIONS). INSPECT THE FLOOR AFTER 90 DAYS, AND REPAIR ANY CRACK THAT IS MORE THAN 1/32" WIDE.
37. JOINTS (FILL ALL JOINTS IN CONCRETE SLABS WITH MM-80 EPOXY JOINT FILLER BY METZGER/MCGUIRE).
   a. CONSTRUCTION JOINTS:
      i. LOCATE CONSTRUCTION JOINTS IN STRICT ACCORDANCE WITH THE DRAWINGS. DO NOT ADD OR DELETE CONSTRUCTION JOINTS WITHOUT THE ARCHITECT'S APPROVAL. SHAPE: MAKE ALL CONSTRUCTION JOINTS AS PLAIN, VERTICAL BUTT JOINTS WITH SHARP, SQUARE EDGES. DO NOT TOOL. WHEN MAKING THE SECOND POUR, DO NOT LET MORTAR BUILD UP ON THE FIRST POUR.
   b. FILLING:
      i. WAIT AT LEAST 90 DAYS. CHASE THE JOINT WITH A CONCRETE SAW. AT CONSTRUCTION JOINTS, CUT 1" DEEP. AT SAWCUT CONTROL JOINTS, CUT AS DEEP AS THE ORIGINAL JOINT. BLOW THE JOINT CLEAN WITH COMPRESSED AIR. USE BACKER ROD TO MAKE A VERTICAL DAM AT EACH END OF THE LENGTH TO BE FILLED. DO NOT USE BACKER ROD AT THE BOTTOM OF THE JOINT. FILL THE JOINT WITH SEMI-RIGID EPOXY. LEAVE THE SURFACE SLIGHTLY CROWNED. IF THERE IS A PROBLEM WITH THE EPOXY LEAKING OUT THE BOTTOM OF THE JOINT, LINE THE JOINT WITH A HARD PLASTIC ROD DRIVEN DOWN TO THE BOTTOM OF THE SAWCUT. AFTER THE EPOXY HAS HARDENED, SAND IT FLUSH WITH A BELT SANDER.
   c. SAWCUT CONTROL JOINTS – METHOD OF SAWING:
      i. SAW JOINTS WITH EITHER A STANDARD WET-CUTTING CONCRETE SAW OR A SOFT-CUT SAW. TIMING: SAW JOINTS AS SOON AS THE CONCRETE CAN STAND SAWING WITHOUT DISLODGING PARTICLES OF COARSE AGGREGATE. DEPTH: IF USING A WET-CUTTING SAW, CUT JOINTS 2" DEEP.
38. LIGHT GAUGE EXTERIOR WALL STUDS:
   A. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
   B. FIELD DETERMINE ACTUAL LENGTHS OF STUDS AND FRAMING CONDITIONS.
   C. FASTEN STUDS TO SUPPORTING STRUCTURE WITH "HILTI" SELF DRILLING SCREWS TYPE 12-24 x 7/8" HWH WITH #4 POINT.
   D. NUMBER OF SCREWS AT EACH CONNECTION SHALL BE AS REQUIRED TO RESIST THE LOADING DETERMINED BY DESIGN.
   E. THE STRUCTURAL DESIGN OF THE WALL SYSTEM SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. DESIGN CALCULATIONS SEALED BY THE REGISTERED ENGINEER SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER RECORD ONLY. STUDS THAT SUPPORT MASONRY SHALL BE DESIGNED FOR A MAXIMUM LATERAL AND VERTICAL DEFLECTION OF L/600.
   F. ALL STUDS TO BE A MINIMUM 600 S 200-54 AS MANUFACTURED BY A LISTED SSMA MEMBER, MAXIMUM SPACING SHALL BE 16".
   G. ALL METAL COMPONENTS 16 GAGE OR THICKER TO HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
   H. ALL METAL COMPONENTS 16 GAGE OR THINNER TO HAVE A MINIMUM YIELD STRENGTH OF 40 KSI.
   I. ALL CLIP ANGLES AND METAL CHANNELS TO BE 14 GAGE, FASTENED TO STUDS AND STRUCTURAL STEEL WITH A MINIMUM OF FOUR "HILTI" SELF DRILLING SCREWS TYPE 12-24 x 7/8" HWH WITH #4 POINT.
   J. ALL SCREWS FOR ATTACHMENT TO STEEL SECTIONS TO BE "HILTI" SELF DRILLING SCREWS TYPE 12-24 x 7/8" HWH WITH #4 POINT IF NOT NOTED. ALL SCREWS FOR ATTACHMENT OF LIGHT GAGE TO LIGHT GAGE TO BE "HILTI" SELF DRILLING SCREWS TYPE 12-14 x 7/8" HWH WITH #4 POINT IF NOT NOTED.
   K. ALL COMPONENTS TO BE AS MANUFACTURED BY A LISTED SSMA MEMBER
39. PROVIDE TS 6"X4"X5/16" RAIL SUPPORT COLUMN FOR ELEVATOR SELECTED COORDINATE WITH ELEVATOR SUPPLIER THE NUMBER OF COLUMNS REQUIRED AND THE LOCATIONS OF COLUMNS. PROVIDE BASE PLATE AND CONNECTIONS TO BEAMS TO SUIT ELEVATOR SELECTED (IF REQ'D. BY ELEVATOR MANUFACTURER).

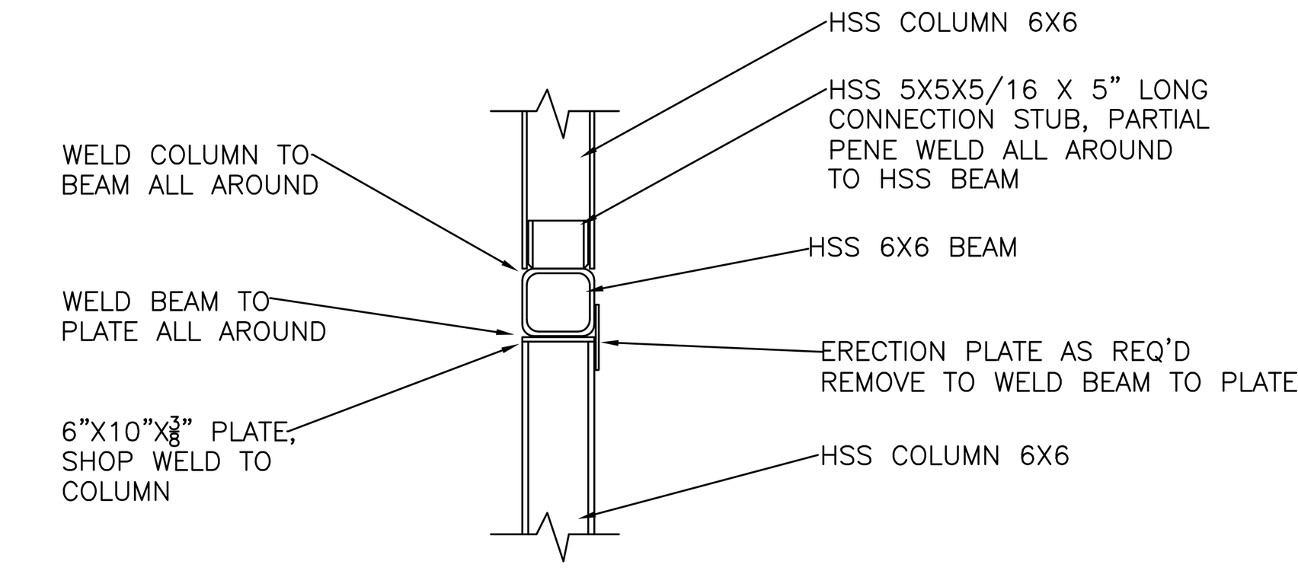
SOIL NOTES:

1. ASSUMED BEARING CAPACITY OF 2500 PSF
   GENERAL CONTRACTOR TO VERIFY IN FIELD THAT THIS CAPACITY IS ACHIEVED.



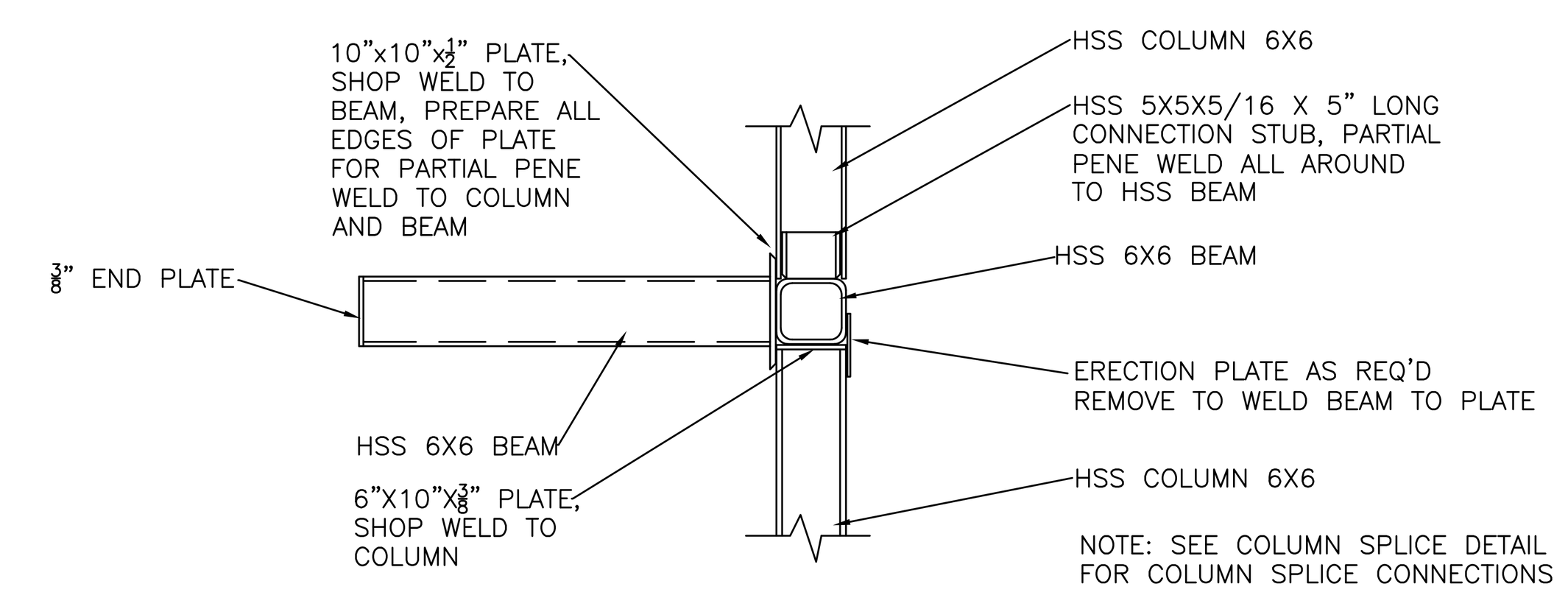
TYPICAL "X" BRACING DETAIL

NOT TO SCALE



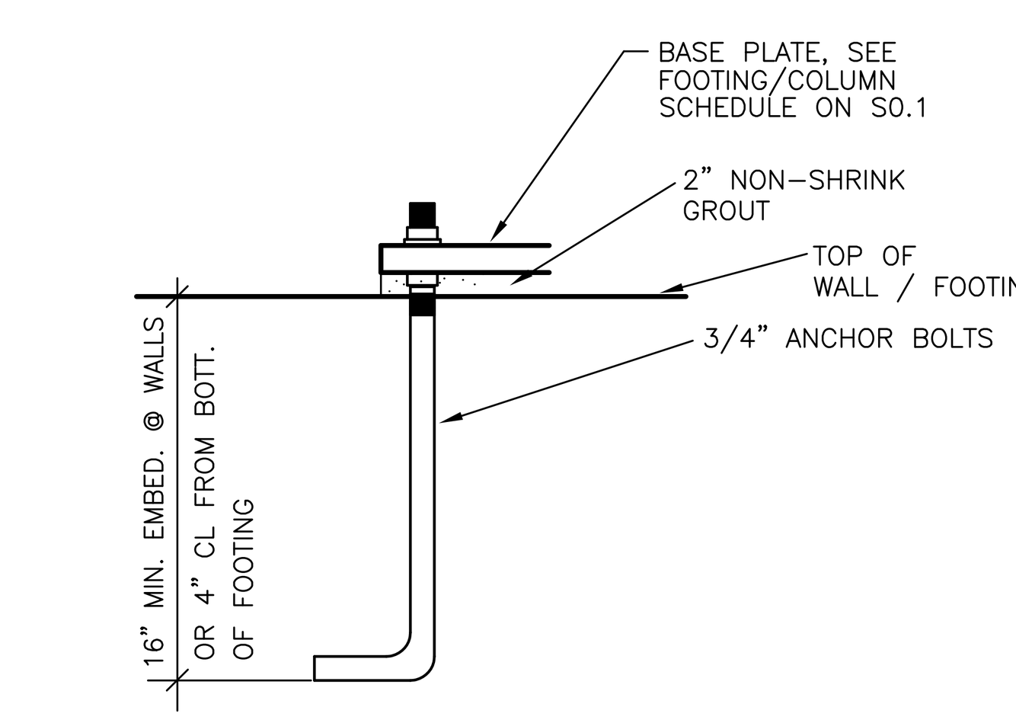
TYPICAL COLUMN SPLICE

NOT TO SCALE



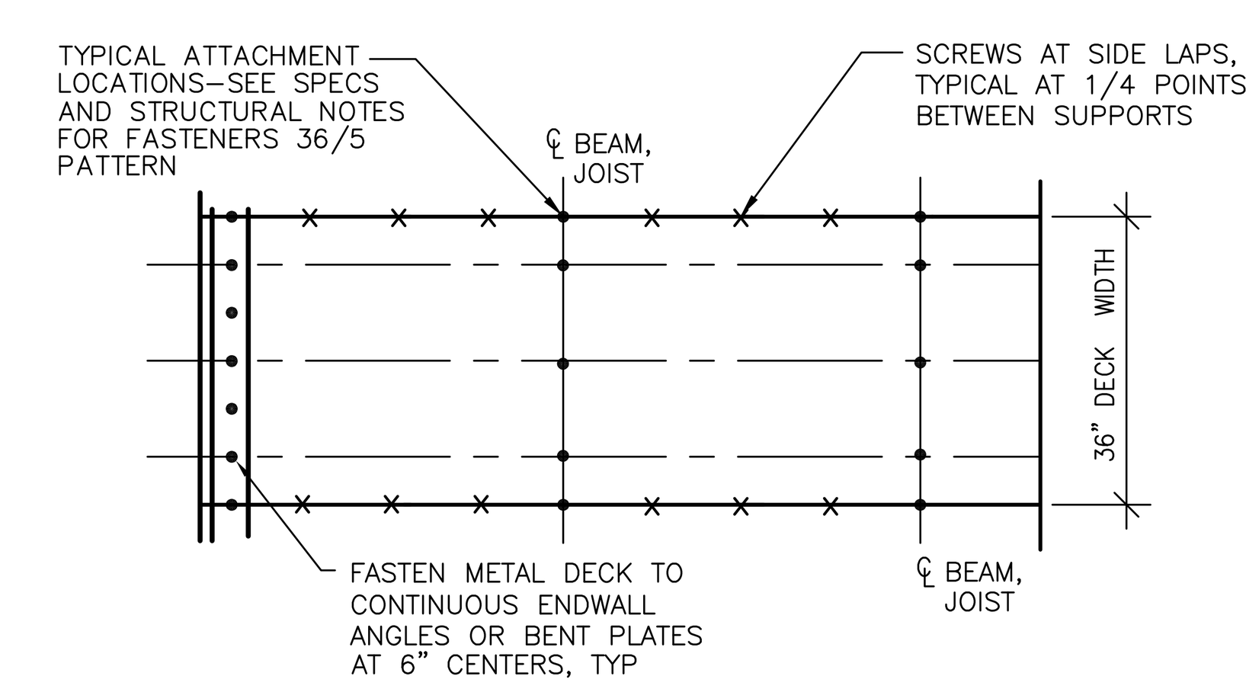
TYPICAL MOMENT CONNECTION

NOT TO SCALE



TYPICAL ANCHOR BOLT EMBEDMENT

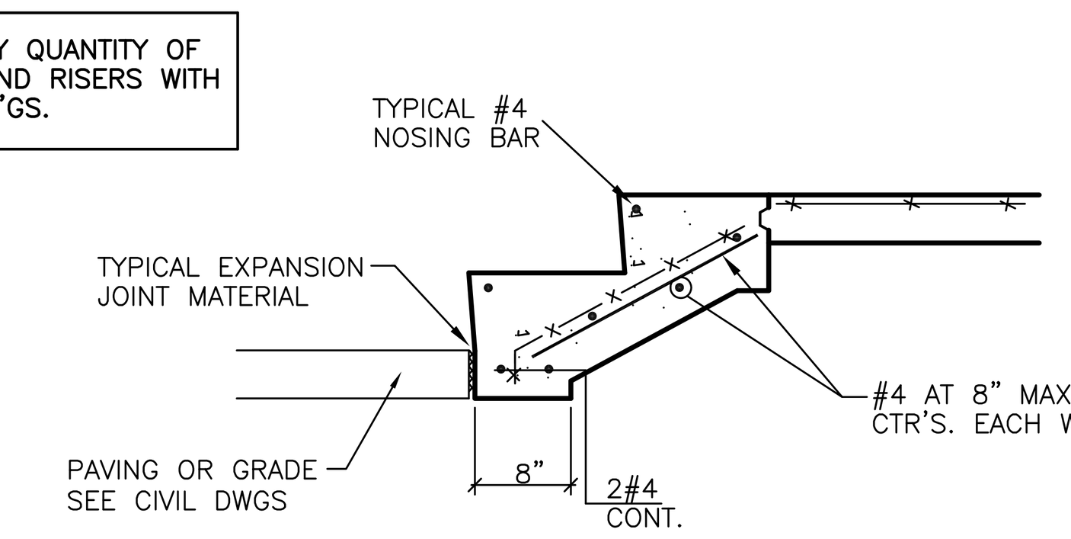
NOT TO SCALE



TYPICAL METAL DECK ATTACHMENT DETAIL – TYPE "B" DECK

NOT TO SCALE

NOTE: VERIFY QUANTITY OF TREADS AND RISERS WITH ARCH. DW'GS.



TYPICAL CONCRETE STAIR

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

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 799 0247 p
803 771 6844 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal

A/E Seal

MABRY ENGINEERING ASSOCIATES, INC. No. C03489 — SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION

UNIVERSITY SOUTH CAROLINA

USC LAW PLAZA ELEVATOR ADDITION

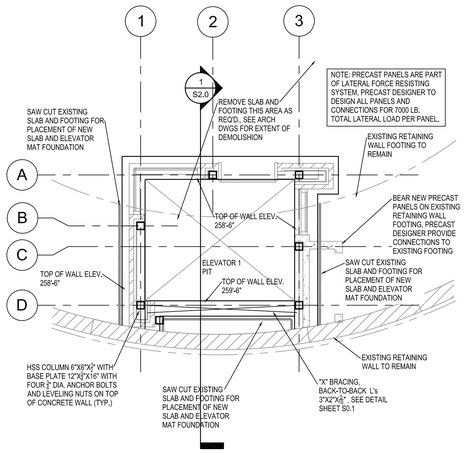
No.	Description	Date

Project Number: H27-Z010
Drawn By: GMH
Checked By: AAS
Date: 5-31-2013

Drawing Title.
STRUCTURAL NOTES and DETAILS

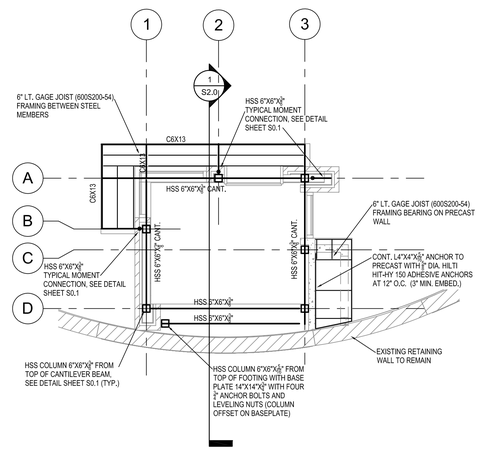
Drawing No.
S0.1

5/3/2013 3:25:16 PM



1 S1.0 FOUNDATION PLAN - ELEVATOR 1

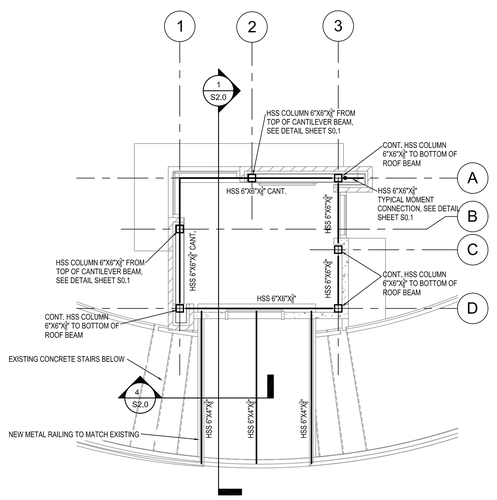
1/4" = 1'-0"



2 S1.0 CANOPY FRAMING PLAN - ELEVATOR 1

1/4" = 1'-0"

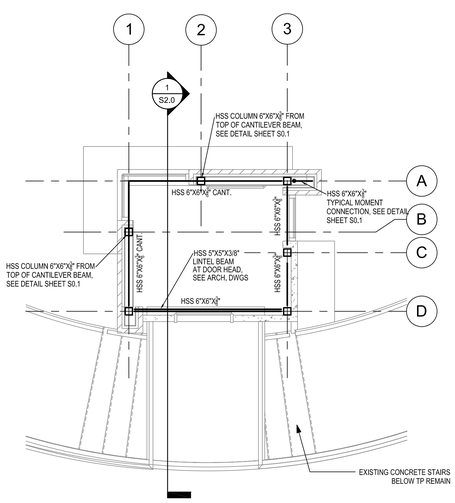
ELEVATION 268'-8"



3 S1.0 MIDDLE PLAZA BRIDGE FRAMING PLAN - ELEVATOR 1

1/4" = 1'-0"

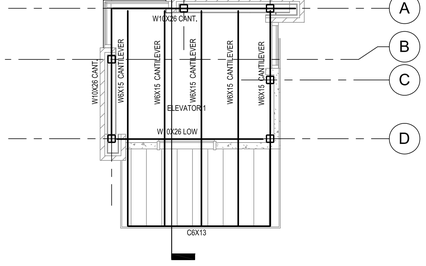
ELEVATION 279'-0"



4 S1.0 FRAMING PLAN - ELEVATOR 1

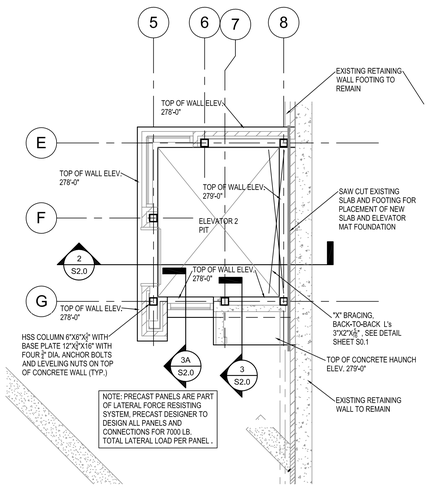
1/4" = 1'-0"

ELEVATION 289'-6"



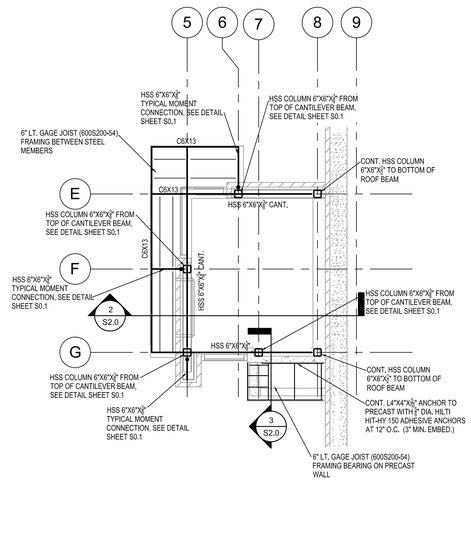
5 S1.0 ROOF FRAMING PLAN - ELEV ATOR 1

1/4" = 1'-0"



6 S1.0 FOUNDATION PLAN - ELEV 2

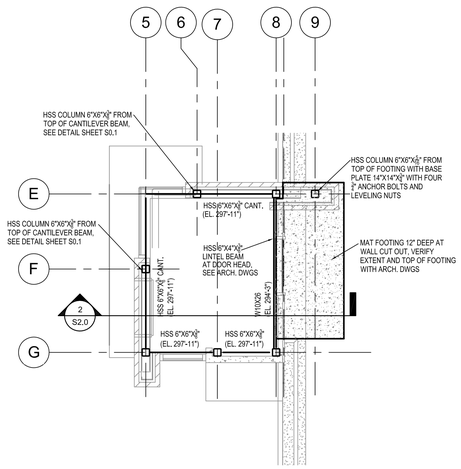
1/4" = 1'-0"



7 S1.0 CANOPY FRAMING PLAN - ELEV 2

1/4" = 1'-0"

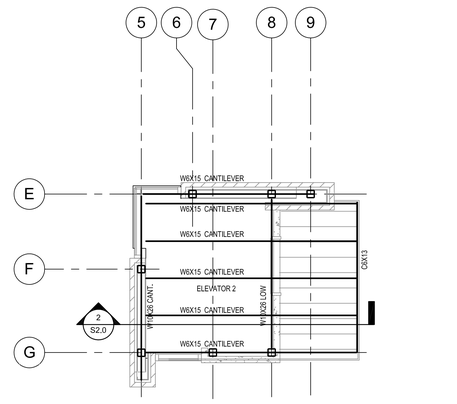
TOP OF STEEL ELEV. 288'-1"



8 S1.0 FRAMING PLAN - ELEV 2

1/4" = 1'-0"

TOP OF STEEL ELEV. 297'-11" U.N.O.



9 S1.0 ROOF FRAMING PLAN - ELEVATOR 2

1/4" = 1'-0"

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The Boudreaux Group
1330 Lady St., Suite 300 (29201)
P.O. Box 5905
Columbia, SC 29250
803 799 0211 P
803 771 6844 F
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 17417
STATE

A/E Seal

SOUTH CAROLINA
MABRY ENGINEERING ASSOCIATES, INC.
No. C03489
CERTIFICATE OF AUTHORIZATION

UNIVERSITY OF SOUTH CAROLINA

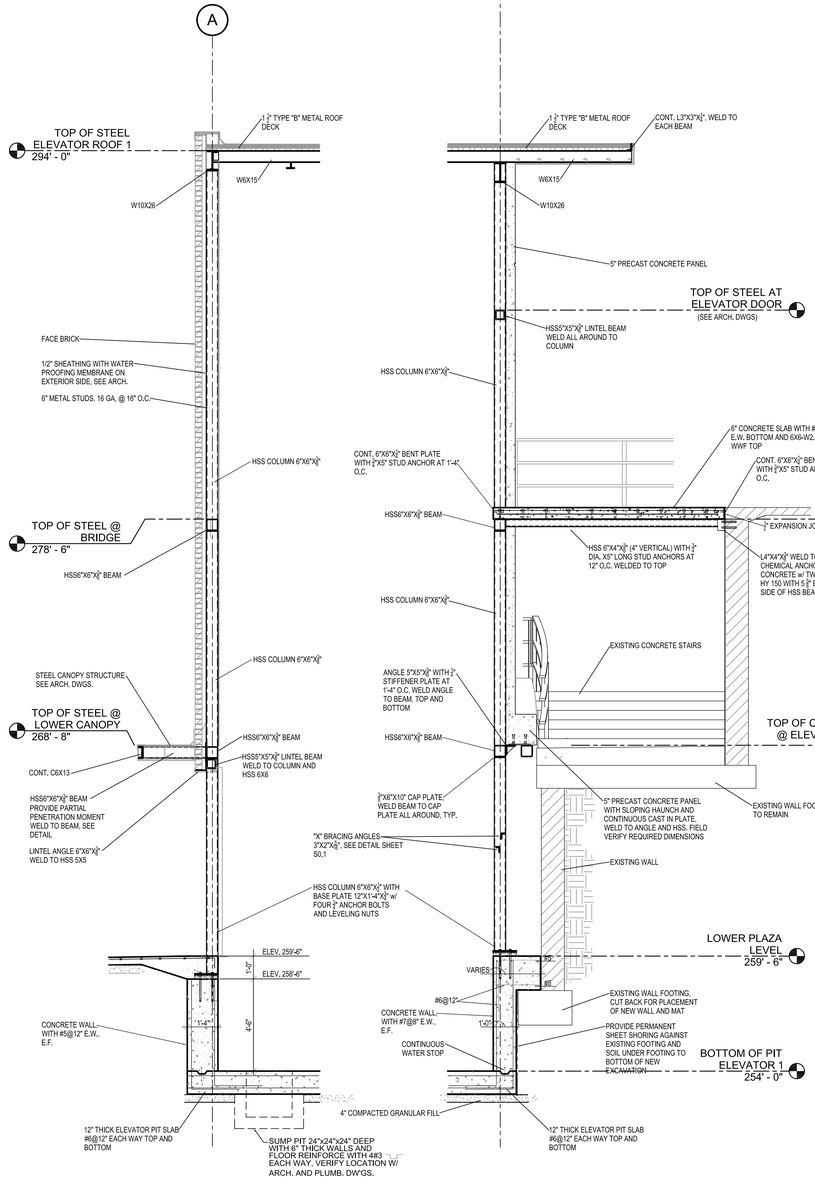
USC LAW PLAZA ELEVATOR ADDITION

No.	Description	Date

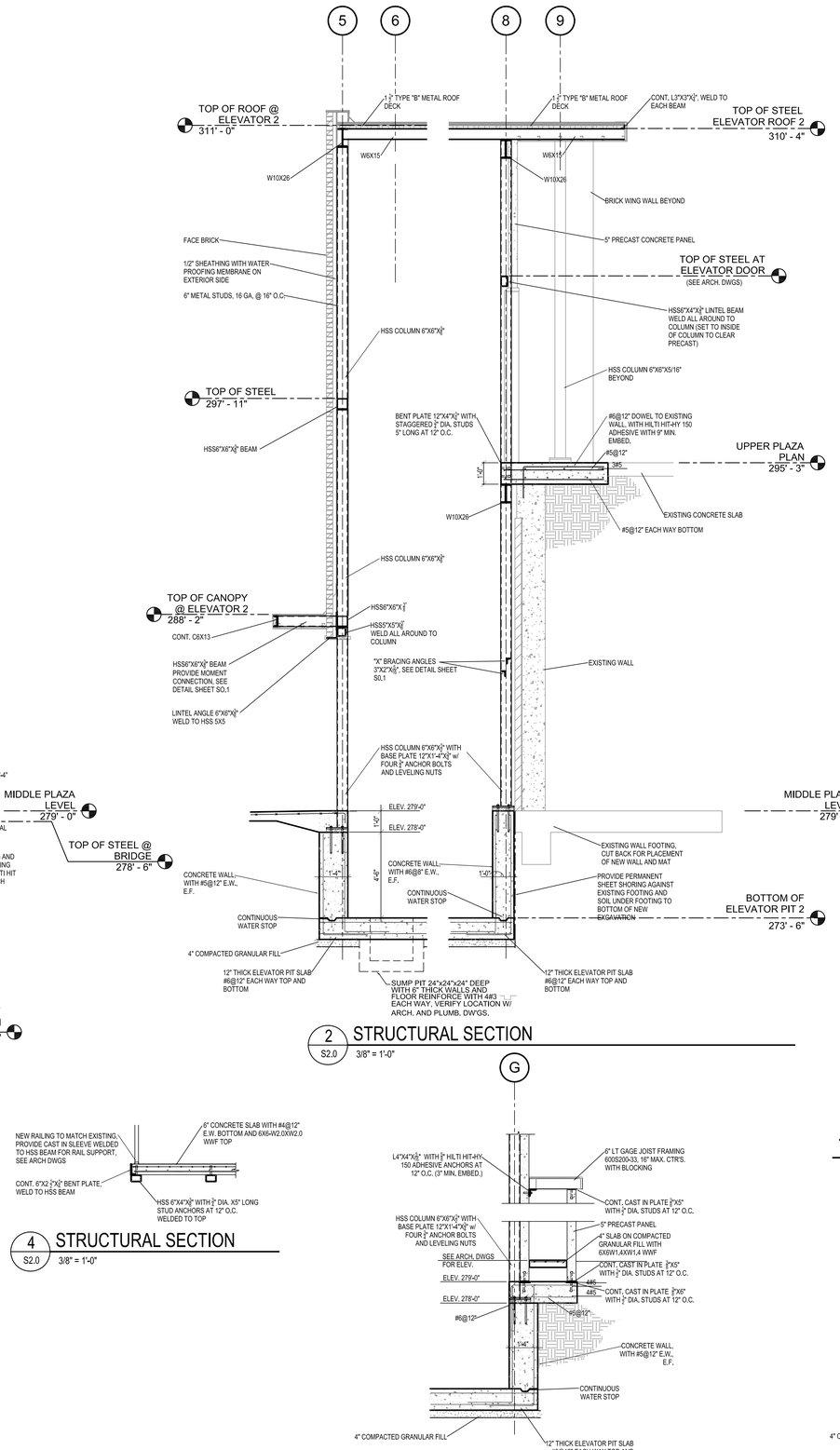
Project Number H27.Z010
Drawn By GMH
Checked By AAS
Date 5-31-2013

Drawing Title. STRUCTURAL PLANS

Drawing No. S1.0



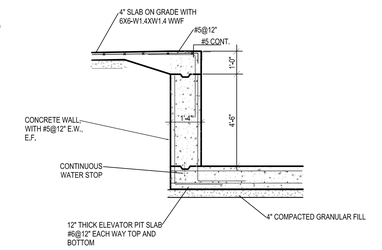
1 S2.0 STRUCTURAL SECTION
3/8" = 1'-0"



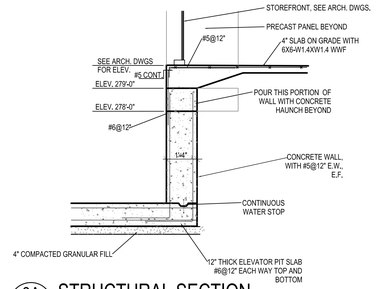
2 S2.0 STRUCTURAL SECTION
3/8" = 1'-0"

4 S2.0 STRUCTURAL SECTION
3/8" = 1'-0"

3 S2.0 STRUCTURAL SECTION
3/8" = 1'-0"



TYPICAL ELEVATOR PIT and NEW SLAB
3/8" = 1'-0"



3A S2.0 STRUCTURAL SECTION
3/8" = 1'-0"

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The Boudreaux Group
Interdisciplinary Design Architecture Interiors Planning
1330 Lady St., Suite 300 (29201)
P.O. Box 1965
Columbia, SC 29250
803 799 0247 P
803 771 6844 F
info@theboudreaugroup.com

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 17457
CHRISTOPHER A. LITTRELL
5/17/13
A/E Seal

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
MABRY ENGINEERING ASSOCIATES, INC.
No. C03489
A/E Seal

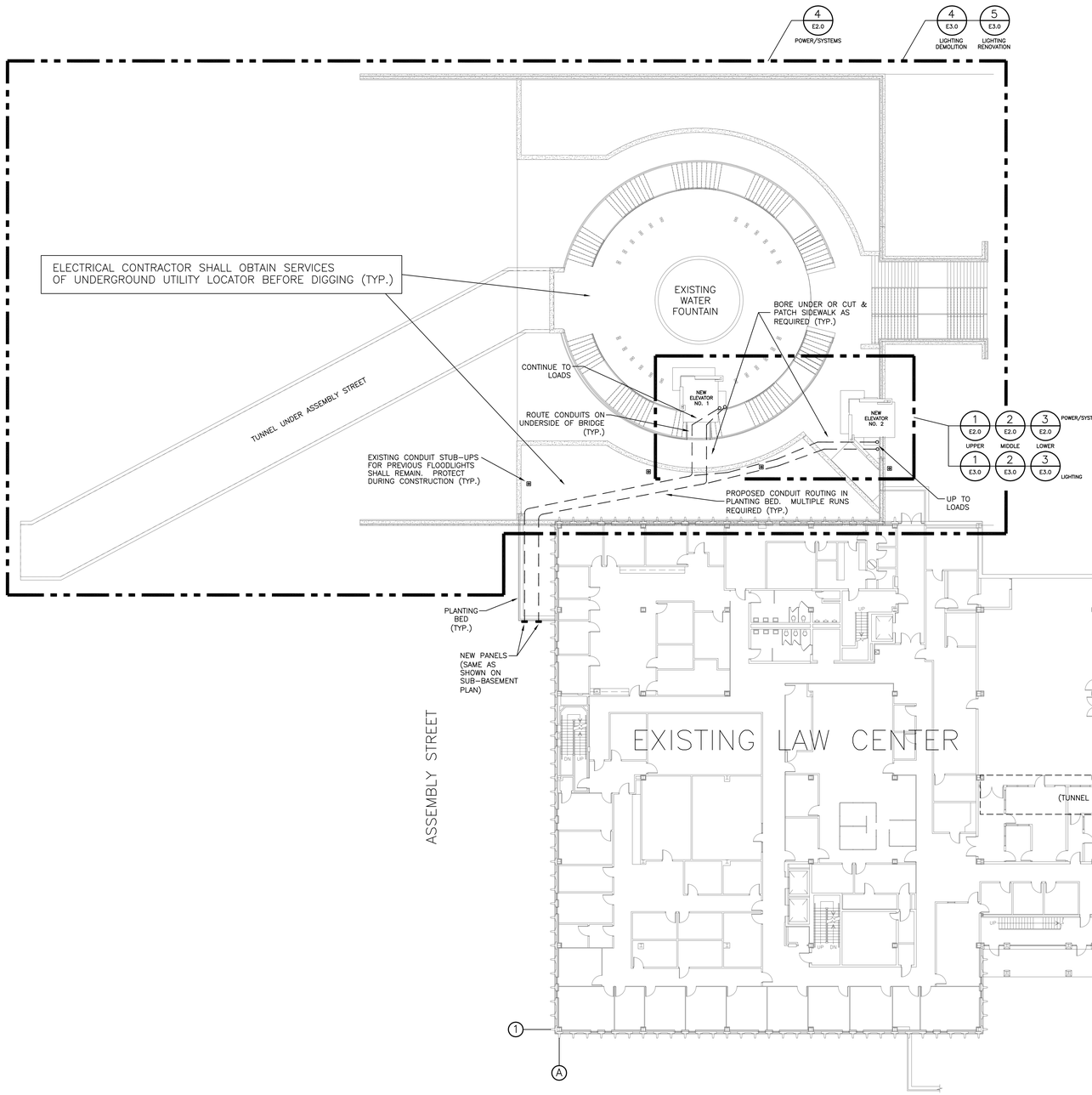
UNIVERSITY SOUTH CAROLINA
USC LAW PLAZA ELEVATOR ADDITION

No.	Description	Date

Project Number
H27-2010
Drawn By
DMH
Checked By
AAS
Date
5-31-2013

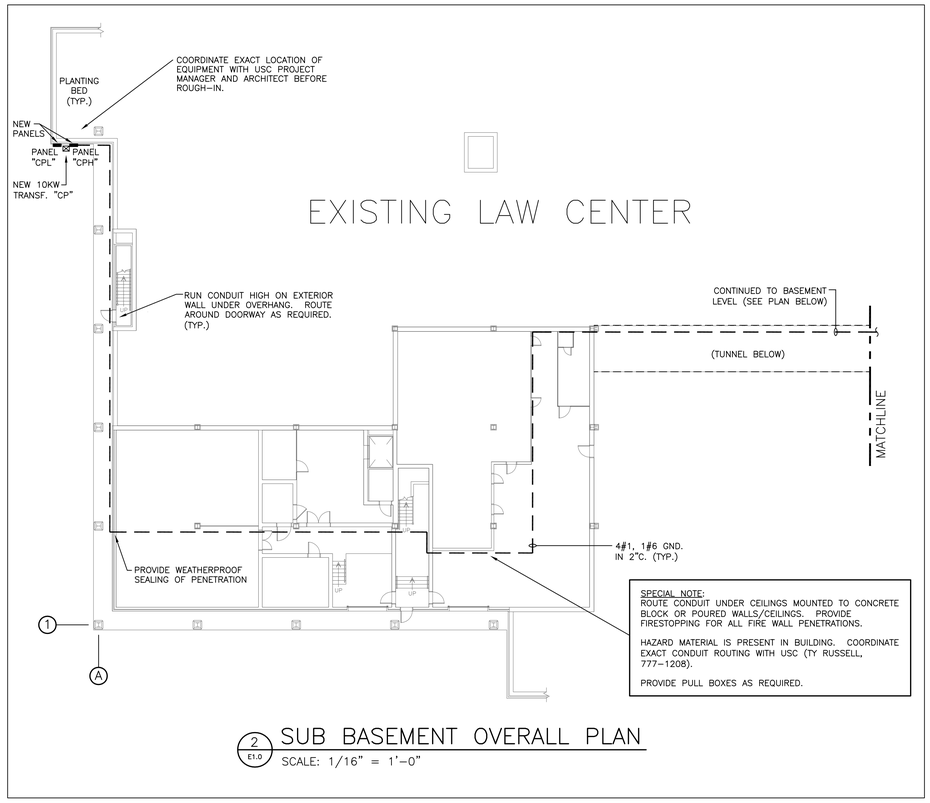
Drawing Title.
STRUCTURAL SECTIONS

Drawing No.
S2.0



1 E1.0 BASEMENT OVERALL PLAN

SCALE: 1/16" = 1'-0"



2 E1.0 SUB BASEMENT OVERALL PLAN

SCALE: 1/16" = 1'-0"

ELECTRICAL DRAWING INDEX	
E1.0	OVERALL ELECTRICAL PLANS
E2.0	POWER/SYSTEMS RENOVATION PLANS
E3.0	LIGHTING DEMOLITION & RENOVATION PLANS
E4.0	SINGLE LINE DIAGRAMS & PANEL SCHEDULES

N
PLAN NORTH

1/16"=1'-0" 4 0 4 16 32 scale feet

AB21301

BEA BELKA ENGINEERING ASSOCIATES, INC.
7 CLUSTERS COURT, SUITE 201
COLUMBIA, SOUTH CAROLINA 29210
(803) 731-0650 fax (803) 731-2880
EMAIL: CEStringfield@bellsouth.net

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 3695
Columbia, SC 29230
803 771 0555 p
803 771 0844 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal: SOUTH CAROLINA BELKA ENGINEERING ASSOC. INC. No. C00953 CERTIFICATE OF AUTHORIZATION

A/E Seal: SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 12465 KEVIN L. BELKA 3-12-13

UNIVERSITY SOUTH CAROLINA

USC LAW PLAZA ELEVATOR ADDITION

ASSEMBLY STREET

No.	Description	Date

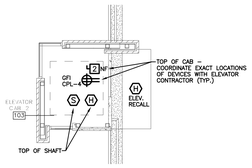
Project Number H27-Z0110 CP00349475/ FM00406639
Drawn By JJS
Checked By CES
Date 31 MAY 2013

Drawing Title.

OVERALL ELECTRICAL PLANS

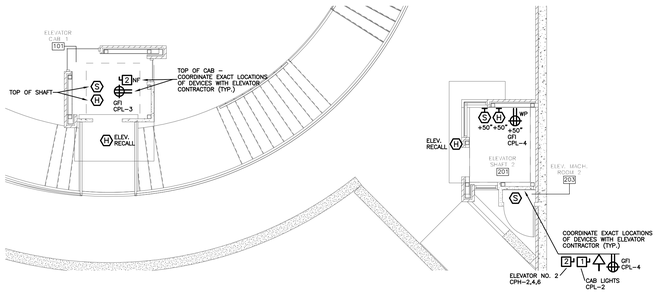
Drawing No.

E1.0



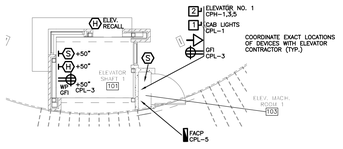
1 E2.0 UPPER PLAZA LEVEL POWER/SYSTEMS PLAN

SCALE: 1/8" = 1'–0"



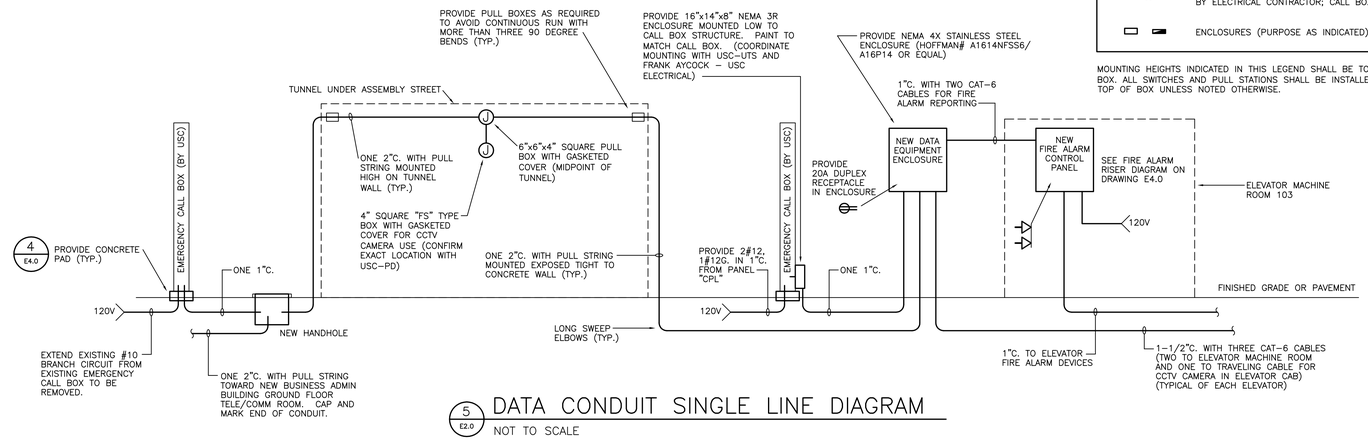
2 E2.0 MIDDLE PLAZA LEVEL POWER/SYSTEMS PLAN

SCALE: 1/8" = 1'–0"



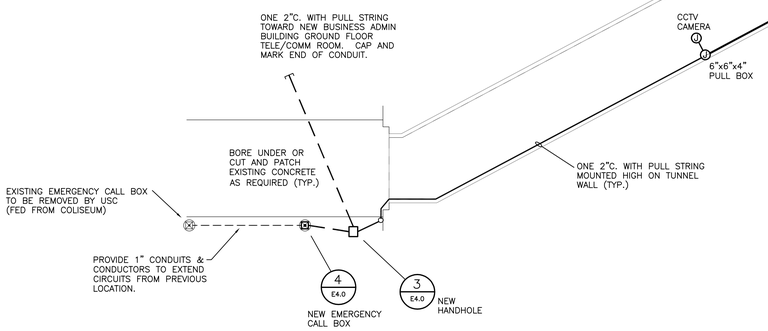
3 E2.0 LOWER PLAZA LEVEL POWER/SYSTEMS PLAN

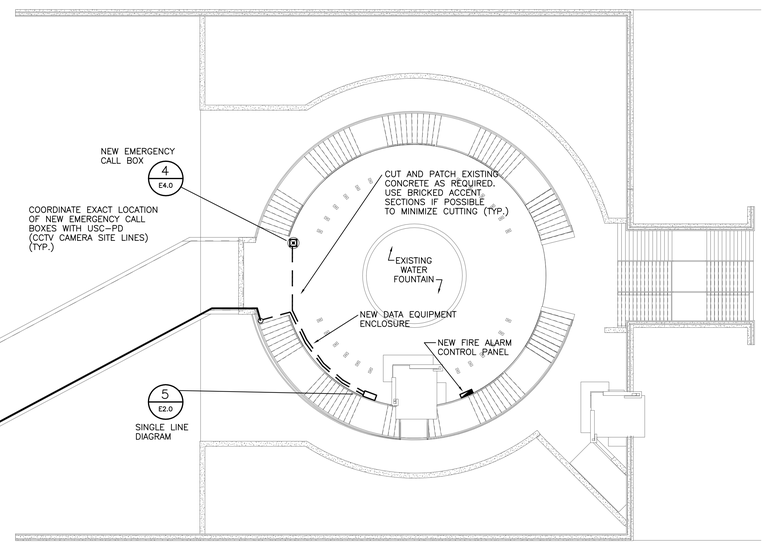
SCALE: 1/8" = 1'–0"



5 E2.0 DATA CONDUIT SINGLE LINE DIAGRAM

NOT TO SCALE





4 E2.0 SITE & TUNNEL POWER/SYSTEMS RENOVATION PLAN

SCALE: 1/16" = 1'–0"

DISCONNECT SWITCH SCHEDULE				
ID	AMPS.	POLES	VOLTAGE	NEMA ENCLOSURE
1	30	2	240V	1
2	60	3	480V	1

ALL SWITCHES SHALL BE GENERAL DUTY TYPE, FUSIBLE UNLESS NOTED WITH "NF" (NON–FUSIBLE)

POWER/SYSTEMS SYMBOL LEGEND

- CPL–12 / GFI / WP — 20 AMP DUPLEX RECEPTACLE, FLUSH MOUNTED IN WALL AT 42" AFF UNLESS NOTED OTHERWISE. (LETTER–NUMBER DENOTES PANEL–CIRCUIT) (GFI = GROUND FAULT INTERRUPTER) (WP = WEATHERPROOF METALLIC "IN–USE" TYPE COVER)
- VOICE/DATA OUTLET, FLUSH MOUNTED IN WALL AT 42" AFF UNLESS NOTED OTHERWISE. PROVIDE A 4" SQUARE x 2" DEEP STEEL BOX WITH SINGLE–GANG PLASTER RING AND BLANK PLASTIC/PHENOLIC WALLPLATE.
- NF — ELECTRICAL SAFETY DISCONNECT SWITCH. PROVIDE SWITCH WITH RATINGS WITH RATINGS AS INDICATED IN THE DISCONNECT SWITCH SCHEDULE SHOWN ON THIS SHEET. SURFACE MOUNT SWITCH ON WALL AT LOCATION WHERE SWITCH HAS PROPER CLEARANCE IN ACCORDANCE WITH NEC.
- S — PHOTOELECTRIC SPOT–TYPE SMOKE DETECTOR. WALL MOUNTED IN ELEVATOR PIT.
- S — PHOTOELECTRIC SPOT–TYPE SMOKE DETECTOR. SEMI–FLUSH MOUNT DETECTOR IN CEILING.
- M — 135 DEGREE SPOT–TYPE HEAT DETECTOR, FIXED TEMPERATURE, WALL MOUNTED IN ELEVATOR PIT.
- M — 135 DEGREE SPOT–TYPE HEAT DETECTOR, FIXED TEMPERATURE. SEMI–FLUSH MOUNT DETECTOR IN CEILING.
- EMERGENCY CALL BOX (FOUNDATION, CONDUITS AND POWER BY ELECTRICAL CONTRACTOR; CALL BOX PROVIDED BY USC)
- ENCLOSURES (PURPOSE AS INDICATED)

MOUNTING HEIGHTS INDICATED IN THIS LEGEND SHALL BE TO CENTERLINE OF DEVICE BOX. ALL SWITCHES AND PULL STATIONS SHALL BE INSTALLED TO BE 48" AFF TO TOP OF BOX UNLESS NOTED OTHERWISE.

PLAN NORTH

1/8"=1'–0" scale 4 0 4 8 16 feet

1/16"=1'–0" scale 4 0 4 16 32 feet

AB21301

BEA BELKA ENGINEERING ASSOCIATES, INC.
7 CLUSTERS COURT, SUITE 201
COLUMBIA, SOUTH CAROLINA 29210
(803) 731–0650 fax (803) 731–2880
EMAIL: CEStringfield@bellsouth.net

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 771 7689
803 771 6844
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

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AE Seal: SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 12465 — 3-12-13 — KEVIN L. BELKA

UNIVERSITY SOUTH CAROLINA

USC LAW PLAZA ELEVATOR ADDITION

ASSEMBLY STREET

Project Number	H27-Z010 CP00349475/ FM00406639
Drawn By	JJS
Checked By	CES
Date	31 MAY 2013

No.	Description	Date

Drawing Title.

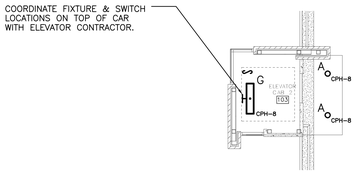
POWER/SYSTEMS RENOVATION PLANS

Drawing No.

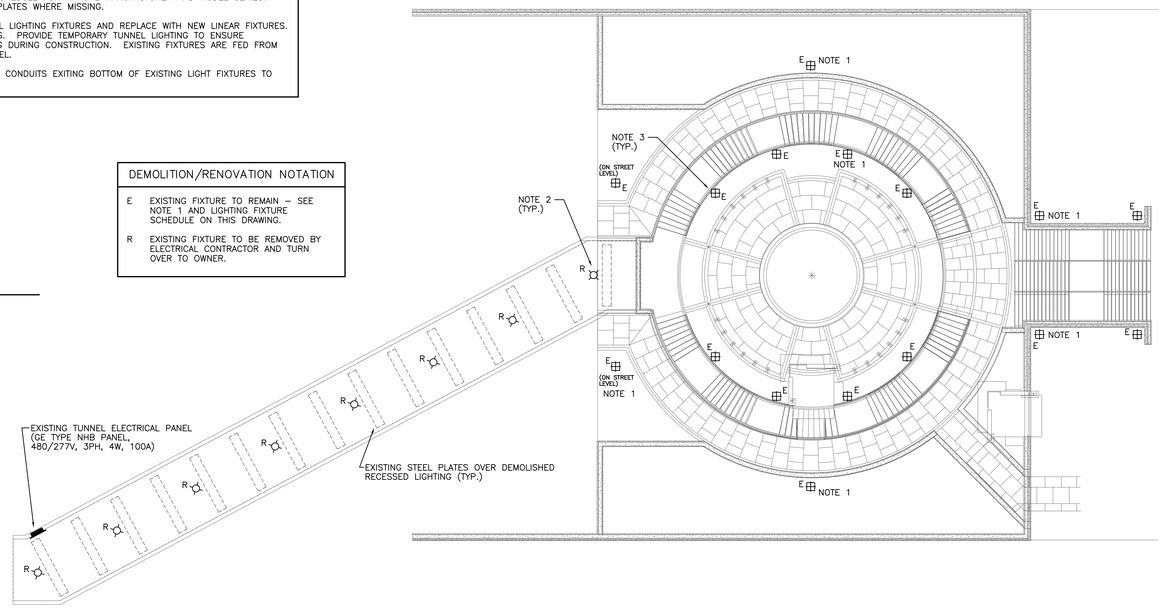
E2.0

LIGHTING NOTES
1. REPLACE EXISTING DAMAGED CONE SHAPED ACRYLIC LENS IN THIS EXISTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE MANUFACTURER AND MODEL SERIES. PROVIDE BLANK COVER PLATES WHERE MISSING.
2. REMOVE EXISTING TUNNEL LIGHTING FIXTURES AND REPLACE WITH NEW LINEAR FIXTURES. REUSE EXISTING CIRCUITS. PROVIDE TEMPORARY TUNNEL LIGHTING TO ENSURE SECURITY LEVEL LIGHTING DURING CONSTRUCTION. EXISTING FIXTURES ARE FED FROM TUNNEL ELECTRICAL PANEL.
3. PAINT EXISTING EXPOSED CONDUITS EXITING BOTTOM OF EXISTING LIGHT FIXTURES TO MATCH WALLS.

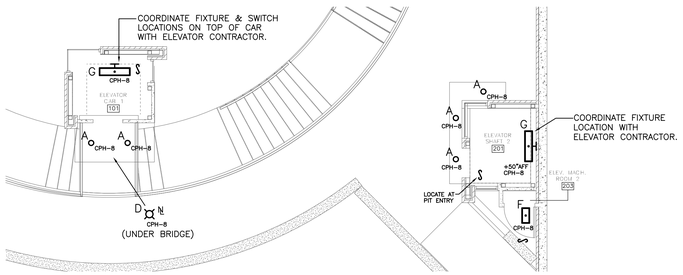
DEMOLITION/RENOVATION NOTATION	
E	EXISTING FIXTURE TO REMAIN – SEE NOTE 1 AND LIGHTING FIXTURE SCHEDULE ON THIS DRAWING.
R	EXISTING FIXTURE TO BE REMOVED BY ELECTRICAL CONTRACTOR AND TURN OVER TO OWNER.



1 E3.0 UPPER PLAZA LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'–0"



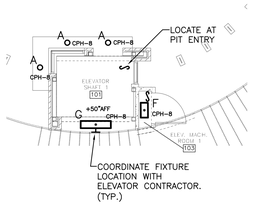
4 E3.0 SITE & TUNNEL LIGHTING DEMOLITION PLAN
SCALE: 1/16" = 1'–0"



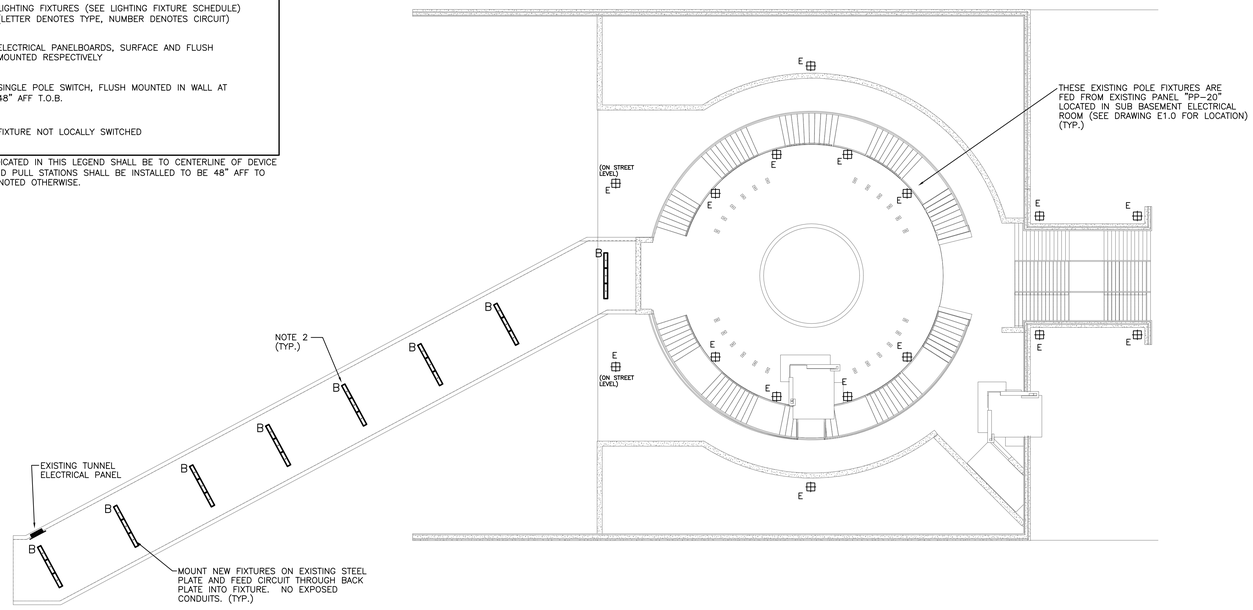
2 E3.0 MIDDLE PLAZA LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'–0"

LIGHTING SYMBOL LEGEND	
A 12	LIGHTING FIXTURES (SEE LIGHTING FIXTURE SCHEDULE) (LETTER DENOTES TYPE, NUMBER DENOTES CIRCUIT)
	ELECTRICAL PANELBOARDS, SURFACE AND FLUSH MOUNTED RESPECTIVELY
S	SINGLE POLE SWITCH, FLUSH MOUNTED IN WALL AT 48" AFF T.O.B.
N	FIXTURE NOT LOCALLY SWITCHED

MOUNTING HEIGHTS INDICATED IN THIS LEGEND SHALL BE TO CENTERLINE OF DEVICE BOX. ALL SWITCHES AND PULL STATIONS SHALL BE INSTALLED TO BE 48" AFF TO TOP OF BOX UNLESS NOTED OTHERWISE.



3 E3.0 LOWER PLAZA LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'–0"



5 E3.0 SITE & TUNNEL LIGHTING RENOVATION PLAN
SCALE: 1/16" = 1'–0"

LIGHTING FIXTURE SCHEDULE								
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	OPTICAL ELEMENT	MOUNTING	VOLTS	LAMPS
○	A	6" FLUORESCENT DOWNLIGHT, VANDAL RESISTANT FIXTURE, IP65 RATED	KIRLIN	LRV–08472	NONE	RECESSED	277	L.E.D. 3000 LUMENS, 4000K
▭	B	THREE 4' L.E.D. VANDAL RESISTANT FIXTURES (MOUNTED END–TO–END)	KENALL	TES5 48 50L40K DV PSH AC	ACRYLIC LENS	CEILING	277	L.E.D. 4000 LUMENS, 4000K
⌑	D	11" SQUARE L.E.D. CEILING FIXTURE	KENALL	MS11FL PIA MB 18L40K DV	ACRYLIC LENS	CEILING	277	L.E.D. 3000 LUMENS, 4000K
⊞	E	EXISTING POLE MOUNTED FIXTURE (SPAULDING CONCORD SERIES). REPLACE ALL DAMAGED PARTS (INCLUDING CONE ACRYLIC LENS) AND MAKE PLUMB/OPERATIONAL. CLEAN & PROVIDE NEW LAMPS.				POLE	277	1 – 150W MH
▭	F	2' FLUORESCENT CEILING FIXTURE	KENALL	R5 48 217 IS 1 DV .156 WL	.156 ACRYLIC LENS	CEILING	277	2–F17T8/TL741/ALTO
▭	G	4' FLUORESCENT VANDAL RESISTANT FIXTURE	KENALL	R5 48 232 IS 1 DV .156 WL	.156 ACRYLIC LENS	PIT WALL OR ON TOP OF CAB	277	2–F32T8/ADV841/ XEW/ALTO 25 WATT

NOTE: LAMP DESCRIPTIONS ARE PHILIPS CATALOG NUMBERS (UNLESS NOTED OTHERWISE) OR APPROVED EQUAL.

N
PLAN NORTH

1/8"=1'–0" scale: 4 0 4 8 16 feet

1/16"=1'–0" scale: 4 0 4 16 32 feet

AB21301

BEA BELKA ENGINEERING ASSOCIATES, INC.
7 CLUSTERS COURT, SUITE 201
COLUMBIA, SOUTH CAROLINA 29210
(803) 731–0650 fax (803) 731–2880
EMAIL: CEStringfield@bellsouth.net

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 771 7689 p
803 771 6844 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

A/E Seal: SOUTH CAROLINA BELKA ENGINEERING ASSOC. INC. No. C00953 CERTIFICATE OF AUTHORIZATION

A/E Seal: REGISTERED PROFESSIONAL ENGINEER No. 12465 KEVIN L. BELKA 3-12-13

UNIVERSITY SOUTH CAROLINA

USC LAW PLAZA ELEVATOR ADDITION

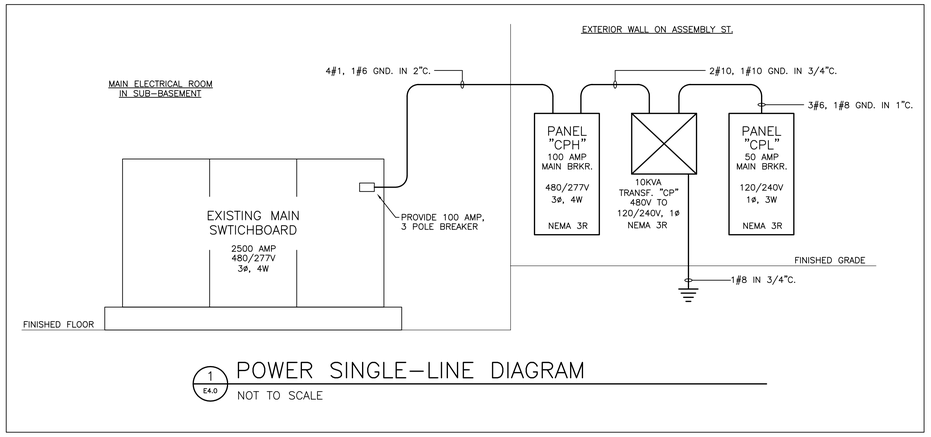
ASSEMBLY STREET

No.	Description	Date

Project Number H27-Z0110 CP00349475/ FM00406639
Drawn By JJS
Checked By CES
Date 31 MAY 2013

Drawing Title: LIGHTING DEMOLITION & RENOVATION PLANS

Drawing No. E3.0



1 E4.0 POWER SINGLE-LINE DIAGRAM

NOT TO SCALE

480/277V, 3 PH., 4W, 60 HZ
100 AMP MAIN BREAKER
SURFACE MOUNTED
35,000 A.I.C. SYM. (MINIMUM)

PANEL "CPH"

NEMA 3R ENCLOSURE

LOADS SERVED	BKR. AMP	LOAD KVA	CKT. NO.	(S / N)	CKT. NO.	LOAD KVA	BKR. AMP	LOADS SERVED
		6.1	1		2	6.1		
(3) ELEVATOR #1	45	6.1	3		4	6.1	45	ELEVATOR #2 (3)
		6.1	5		6	6.1		
(2) PANEL "CPL" (VIA TRANSF. "CP")	50	2.4	7		8	2.0	20	ELEV. AREA LIGHTING (1)
		1.7	9		10	–	20	SPARE
SPARE	20	–	11		12	–	20	SPARE
SPACE	–	–	13		14	–	–	SPACE
SPACE	–	–	15		16	–	–	SPACE
SPACE	–	–	17		18	–	–	SPACE
SPACE	–	–	19		20	–	–	SPACE
SPACE	–	–	21		22	–	–	SPACE
SPACE	–	–	23		24	–	–	SPACE

CONNECTED LOADS (KVA)
øA 16.6 øB 13.9 øC 12.2

TOTAL LOADS (KVA)
42.7

(1) 2#10, 1#10 GND. IN 3/4"C.
(2) 2#10, 1#10 GND. IN 3/4"C.
(3) 3#4, 1#8 GND. IN 1-1/4"C.

120/240V, 1 PH., 3W, 60 HZ
50 AMP MAIN BREAKER
SURFACE MOUNTED
10,000 A.I.C. SYM. (MINIMUM)

PANEL "CPL"

NEMA 3R ENCLOSURE

LOADS SERVED	BKR. AMP	LOAD KVA	CKT. NO.	(S / N)	CKT. NO.	LOAD KVA	BKR. AMP	LOADS SERVED
CAB LIGHTS (ELEV. #1)	20	0.5	1		2	0.5	20	CAB LIGHTS (ELEV. #2)
RECEPTACLES (ELEV. #1)	20	0.6	3		4	0.6	20	RECEPTACLES (ELEV. #2)
FIRE ALARM PANEL	20	1.0	5		6	0.4	20	DATA EQUIPMENT ENCLOSURE
EMERGENCY CALL BOX	20	0.5	7		8	–	20	SPARE
SPARE	20	–	9		10	–	20	SPARE
SPARE	20	–	11		12	–	20	SPARE

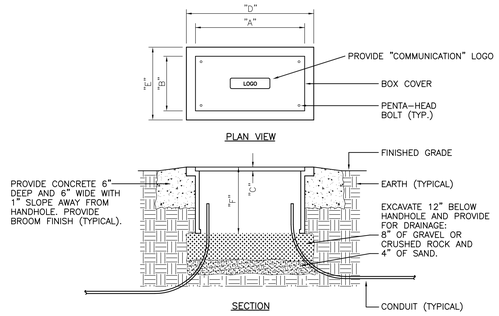
CONNECTED LOADS (KVA)
øA 2.4 øB 1.7

TOTAL LOADS (KVA)
4.1

ALL BRANCH CIRCUITS SHALL BE 2#10, 1#10 GND. IN 3/4"C. IN THIS PANEL.

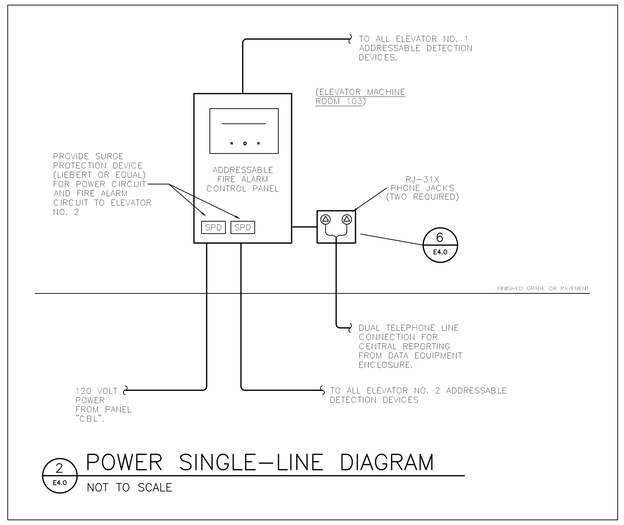
HANDHOLE NO.	BOX MODEL NO.	COVER MODEL NO.	PENTA BOLT NO.	DIMENSIONS				
				"A"	"B"	"C"	"D"	"E"
HH-1	PC1118BG12	PC1118CG17 (ELECTRIC)	UH0389AA (4 REQUIRED/BOX)	18.5"	11.5"	.75"	20.5"	13.5"	12.5"

NOTE: HANDHOLE MODEL NUMBERS IN SCHEDULE ARE QUAZITE (PHOENIX, ROC-340-30KG) OR PRIOR APPROVED EQUAL. BOXES AND COVERS SHALL BE GREEN IN COLOR WITH LOGOS AS INDICATED BY PART NUMBER.



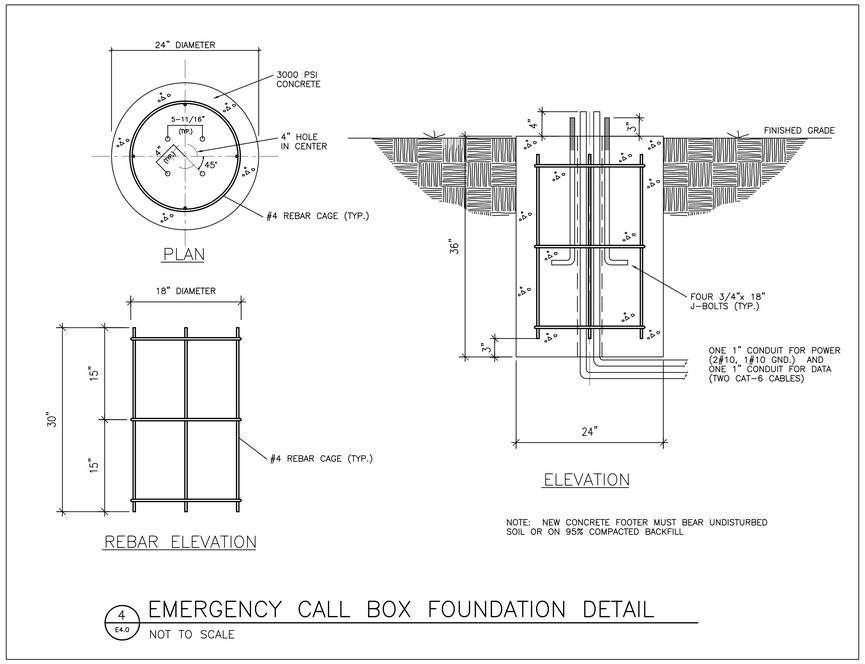
3 E4.0 HANDHOLE DETAIL

NOT TO SCALE



2 E4.0 POWER SINGLE-LINE DIAGRAM

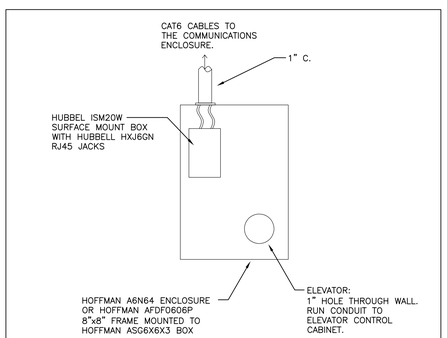
NOT TO SCALE



NOTE: NEW CONCRETE FOOTER MUST BEAR UNDISTURBED SOIL OR ON 95% COMPACTED BACKFILL

4 E4.0 EMERGENCY CALL BOX FOUNDATION DETAIL

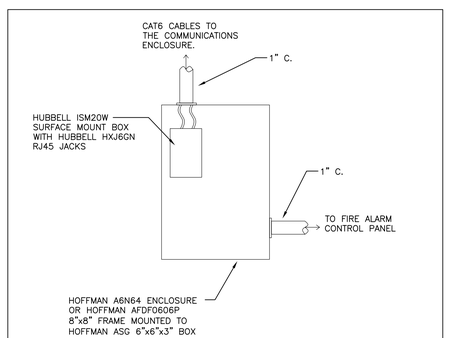
NOT TO SCALE



ELEVATOR CONTROL PANEL DETAIL

5 E4.0

NOT TO SCALE



FIRE ALARM PANEL DETAIL

6 E4.0

NOT TO SCALE

ELEVATOR CONTROL PANEL NOTES
SURFACE MOUNTED ENCLOSURE SHALL BE INSTALLED ON WALL OF ELEVATOR MACHINE ROOM, NEXT TO THE DOOR. ONE 1" CONDUIT SHALL BE CONNECTED TO THE ELEVATOR CONTROL CABINET.

FIRE ALARM CONTROL PANEL NOTES
SURFACE MOUNTED ENCLOSURE SHALL BE INSTALLED 4' TO 5' AFF ADJACENT TO CONTROL PANEL. ONE 1" CONDUIT SHALL CONNECT ENCLOSURE TO ALARM CONTROL PANEL AND ONE 1" CONDUIT SHALL BE STUBBED ABOVE CEILING. CAT6 CABLING SHALL BE RUN FROM ENCLOSURE TO NEAREST DATA ROOM.

The Boudreaux Group
1330 Lady St., Suite 500 (29201)
P.O. Box 5695
Columbia, SC 29250
803 771 7000 tel
803 771 6844 f
info@boudreauxgroup.com
Interdisciplinary Design Architecture Interiors Planning

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KEVIN L. BELKA
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USC LAW PLAZA ELEVATOR ADDITION

ASSEMBLY STREET

No.	Description	Date

Project Number H27-Z010 CP00349475/ FM00406639
Drawn By JJS
Checked By CES
Date 31 MAY 2013

Drawing Title.

SINGLE LINE DIAGRAMS & PANEL SCHEDULES

Drawing No.

E4.0

AB21301

BEA BELKA ENGINEERING ASSOCIATES, INC.
7 CLUSTERS COURT, SUITE 201
COLUMBIA, SOUTH CAROLINA 29210
(803) 731-0650 fax (803) 731-2880
EMAIL: CEStringfield@bellsouth.net