

# EXTERIOR EGRESS STAIR

## 2990 E. GRAND BLVD. | DETROIT

### PROJECT TEAM

**CLIENT:**  
EXHIBIT 3000  
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ARCHITECTURE & DESIGN  
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**STRUCTURAL ENGINEER:**  
SIW ENGINEERING  
Contact: Steven Whitican  
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Phone: (810) 292-9258

### GENERAL PROJECT INFORMATION

**PURPOSE OF THIS FILING:**  
The purpose of this filing is to obtain a construction permit for the proposed egress stair tower and wheelchair ramp. The existing building and its future uses are not a part of the proposed scope of work.

**PROJECT DESCRIPTION:**  
**Nature of Project**  
The proposed project is an exterior steel egress stair which will replace the former wooden egress stair that was in disrepair and, therefore, was removed last year. The new egress stair will reestablish a second means of egress for all floors of the existing building at 2990 E. Grand Blvd. In addition to being built of non-combustible material, the proposed stair will offer wider travel paths and door openings than the former wood stair did, so as to afford all future uses of the building with code compliant means of egress. The stair is separated from the building by the building's existing multi wythe brick masonry exterior wall which has a fire rating of greater than 2 hours. A new ADA compliant wheelchair ramp will also be added to the exterior of the building providing handicap accessibility to the building for the first time.

**Scope of Work**  
The proposed scope of work includes: The demolition of the deteriorated CMU exterior retaining wall that forms the sunken stairwell down to the basement level, and its replacement with a new concrete retaining wall. The pouring of new concrete footings to support the proposed egress stair structure. The construction of a new steel framed egress stair tower serving all floors. The cladding of this open-air egress stair tower with perforated sheet metal to provide wind and rain screening and the addition of a corrugated metal roof to shed rain. The construction of a new ADA compliant wheelchair ramp. The interior of the building is not a part of this scope.

### ZONING REQUIREMENTS

**LOCAL AUTHORITY:** City of Detroit  
**LOCAL ORDINANCE:** Detroit Zoning Ordinance

**ZONING CLASSIFICATION:** B-4: General Business District  
**USE CLASSIFICATION:** (§ 50-9-106) N/A (scope does not address interior of building)

**REQUIRED SETBACKS:** (§ 50-13-45)  
Front: none required  
Sides: none required  
Rear: none required

**LOT COVERAGE:** (§ 50-13-45) no requirement

**FLOOR AREA RATIO:** (§ 50-13-45) no requirement

**MINIMUM LOT SIZE:** (§ 50-13-45)  
Area: none required  
Width: none required

**MAXIMUM HEIGHT:** (§ 50-13-45)  
Existing Height: 43 ft. existing building

### STRUCTURAL CODE REQUIREMENTS

See structural drawing: S-100 & S-003

### BUILDING CODE REQUIREMENTS

**GOVERNING CODES:**  
2015 Michigan Building Code (MBC)

**ALLOWABLE HEIGHTS AND AREAS:** (MBC Tables 504.3; 504.4; 506.2)  
Construction Type: 3B  
Allowable Height Above Grade: 55 ft.  
Actual Height Above Grade: 43 ft. (existing)  
Allowable Stories Above Grade: 3 Stories (existing)  
Actual Stories Above Grade: 3 Stories (existing)

**REQUIRED FIRE RESISTANCE RATINGS:** (MBC Tables 601; 602)  
Construction Type: 3B  
Primary Structural Frame: 0 hrs.  
Exterior Bearing Walls: 2 hrs.  
Interior Bearing Walls: 0 hrs.  
Exterior Non-Bearing Walls: 0 hrs.  
Interior Non-Bearing Walls: 0 hrs.  
Floor Construction: 0 hrs.  
Roof Construction: 0 hrs.  
Exterior Fire Separation: 0 hrs.

**MEANS OF EGRESS**  
Egress Capacity: (MBC § 1005.3.1; 1005.3.2)  
Min. Door Width Allowed: 32 in. (MBC § 1010.1.1)  
Door Width Provided: 48 in.  
Min. Stair Width Allowed: 36 in. (MBC § 1011.2-1) (Occ. load < 50)  
Stair Width Provided: 40 in.  
Min. Ramp Width Allowed: 36 in. (MBC § 1011.2-1) (Occ. load < 50)  
Min. Ramp Width per ADA: 48 in.  
Ramp Width Provided: 60 in.

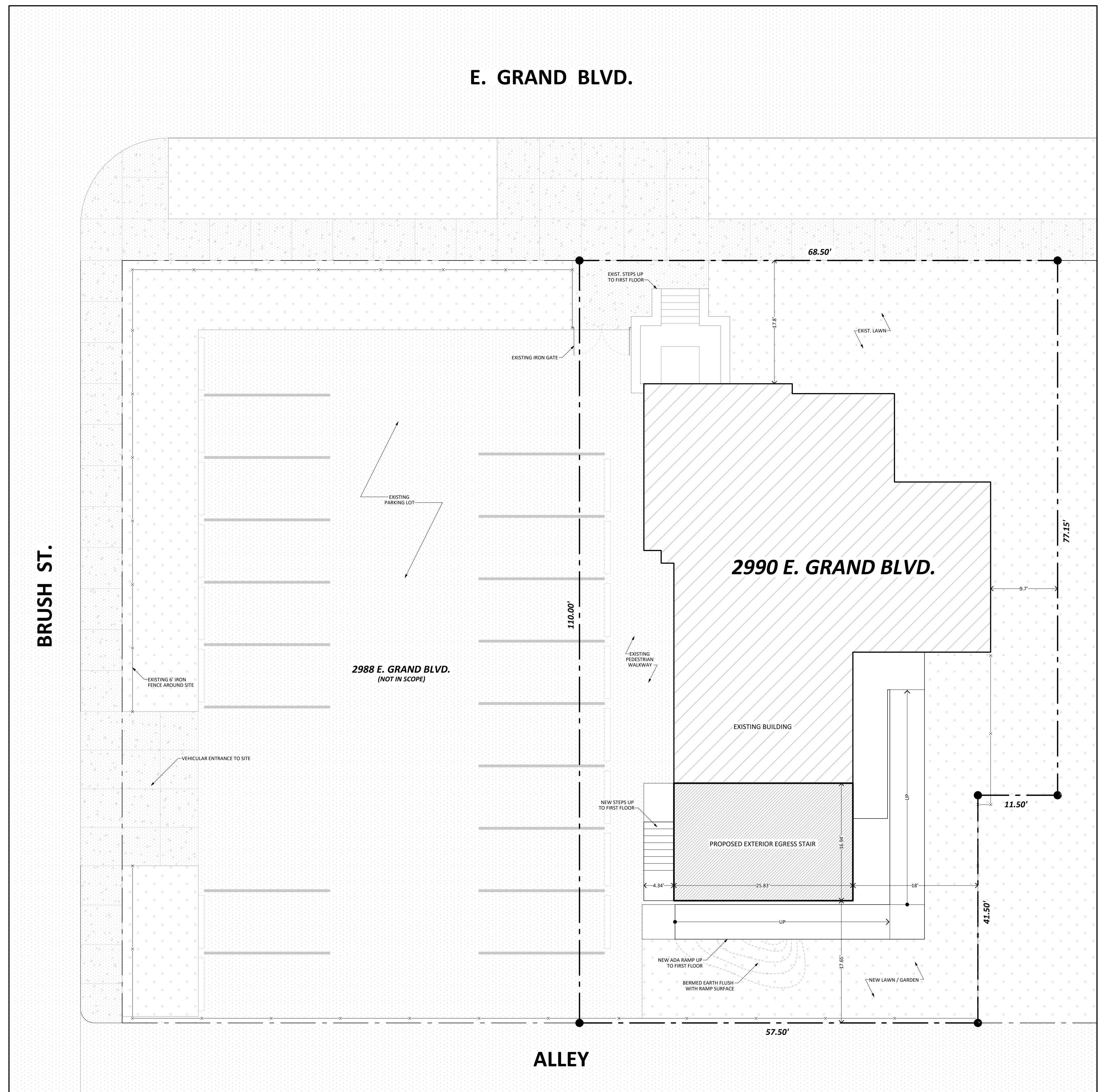
**Accessible Means of Egress:**  
None in Existing Buildings (MRCB § 410.6 → MBC § 1009.1-1)

### DRAWING SYMBOLS LEGEND

GRAPHIC	DESCRIPTION
	BUILDING SECTION MARKER
	DETAIL SECTION MARKER
	DETAIL MARKER
	EXTERIOR ELEVATION MARKER
	INTERIOR ELEVATION MARKER
	STRUCTURAL GRID LINE MARKER
	DOOR TAG
	MATERIAL TAG
	ELEVATION MARKER
	RAMP/STAIR SLOPE & DIRECTION INDICATOR

### SHEET INDEX

SHEET	TITLE	SCALE	ISSUED FOR PERMIT SET	CONSTRUCTION SET
<b>ARCHITECTURAL</b>				
A-001	TITLE SHEET, CODE SUMMARY & SITE PLAN	AS NOTED	●	●
A-100	EXISTING PLANS	1/4" = 1'-0"	●	●
A-101	EXISTING ELEVATIONS & SECTIONS	1/4" = 1'-0"	●	●
A-200	PROPOSED FOUNDATION PLAN	1/2" = 1'-0"	●	●
A-201	PROPOSED FIRST FLOOR PLAN & PROJECT SCHEDULES	1/2" = 1'-0"	●	●
A-202	PROPOSED SECOND FLOOR PLAN	1/2" = 1'-0"	●	●
A-203	PROPOSED THIRD FLOOR PLAN	1/2" = 1'-0"	●	●
A-204	PROPOSED ROOF PLAN	1/2" = 1'-0"	●	●
A-300	PROPOSED NORTH-SOUTH SECTION	1/2" = 1'-0"	●	●
A-400	PROPOSED EAST ELEVATION	1/2" = 1'-0"	●	●
A-401	PROPOSED NORTH ELEVATION	1/2" = 1'-0"	●	●
A-402	PROPOSED WEST ELEVATION	1/2" = 1'-0"	●	●
A-400	FOUNDATION DETAILS	1" = 1'-0" U.O.N.	●	●
A-601	RAMP DETAILS	1" = 1'-0" U.O.N.	●	●
A-602	GRADE TO 1ST FLOOR STAIR DETAILS	AS NOTED	●	●
A-603	FIRST TO SECOND FLOOR STAIR DETAILS	AS NOTED	●	●
A-604	SECOND TO THIRD FLOOR STAIR DETAILS	AS NOTED	●	●
A-605	HANDRAIL & GUARDRAIL DETAILS	AS NOTED	●	●
A-606	ROOF DETAILS	3" = 1'-0" U.O.N.	●	●
A-607	ROOF DETAILS CONTINUED	3" = 1'-0" U.O.N.	●	●
A-608	DOOR DETAILS	AS NOTED	●	●
<b>STRUCTURAL</b>				
S-001	LOADS & CODES	AS NOTED	●	●
S-003	GENERAL NOTES & INSPECTIONS	AS NOTED	●	●
S-101	ROOF FRAMING PLAN	AS NOTED	●	●
S-102	SECOND & THIRD FLOOR FRAMING PLANS	AS NOTED	●	●
S-103	GROUND FLOOR FRAMING PLAN	AS NOTED	●	●
S-104	FOUNDATION PLAN	AS NOTED	●	●
S-201	FOUNDATION DETAILS & SECTIONS	AS NOTED	●	●
S-202	ADDITIONAL DETAILS	AS NOTED	●	●
A-001	ADDITIONAL DETAILS CONT.	AS NOTED	●	●



**LOT BOUNDARY**  
(SCOPE OF PROJECT)

**ADJOINING LOT LINE**  
(NOT IN SCOPE)

**FENCE**

**CONCRETE SURFACE**

**ASPHALT SURFACE**

**VEGETATED SURFACE**

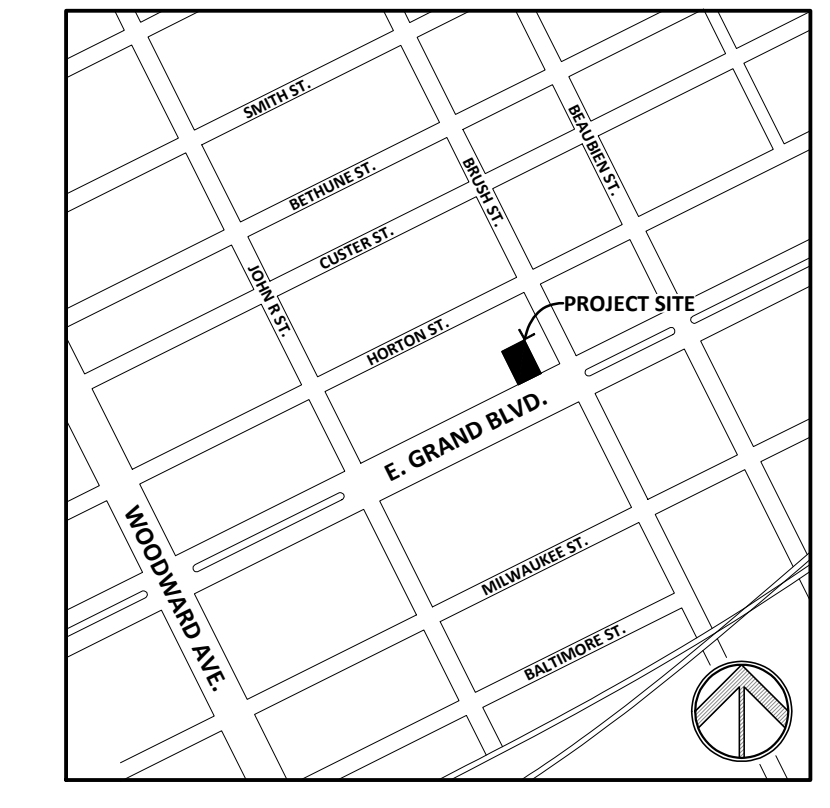
**EXISTING BUILDING**

**PROPOSED EXTERIOR EGRESS STAIR**

**PARCEL LEGAL DESCRIPTION:**  
N E GRAND BLVD S 77.15 FT OF E 19.60 FT OF W 42.10 FT 21 E 7.9 FT 21 W 41.00 FT 22 ATKINSONS L7 P33 PLATS, W C R 1/100 68.50 IRREG

SCALE: 1/8" = 1'-0"

**CONTEXT PLAN**  
N.T.S.

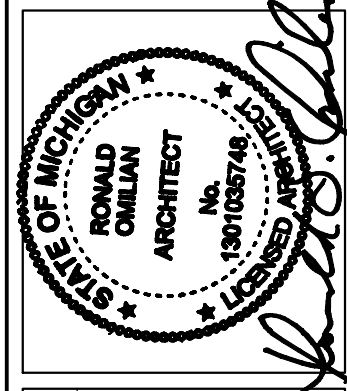


3 PROPOSED SITE PLAN  
1/8" = 1'-0"

2 CONTEXT PLAN  
N.T.S.

1 PROJECT RENDERING  
N.T.S.

REMARKS:  
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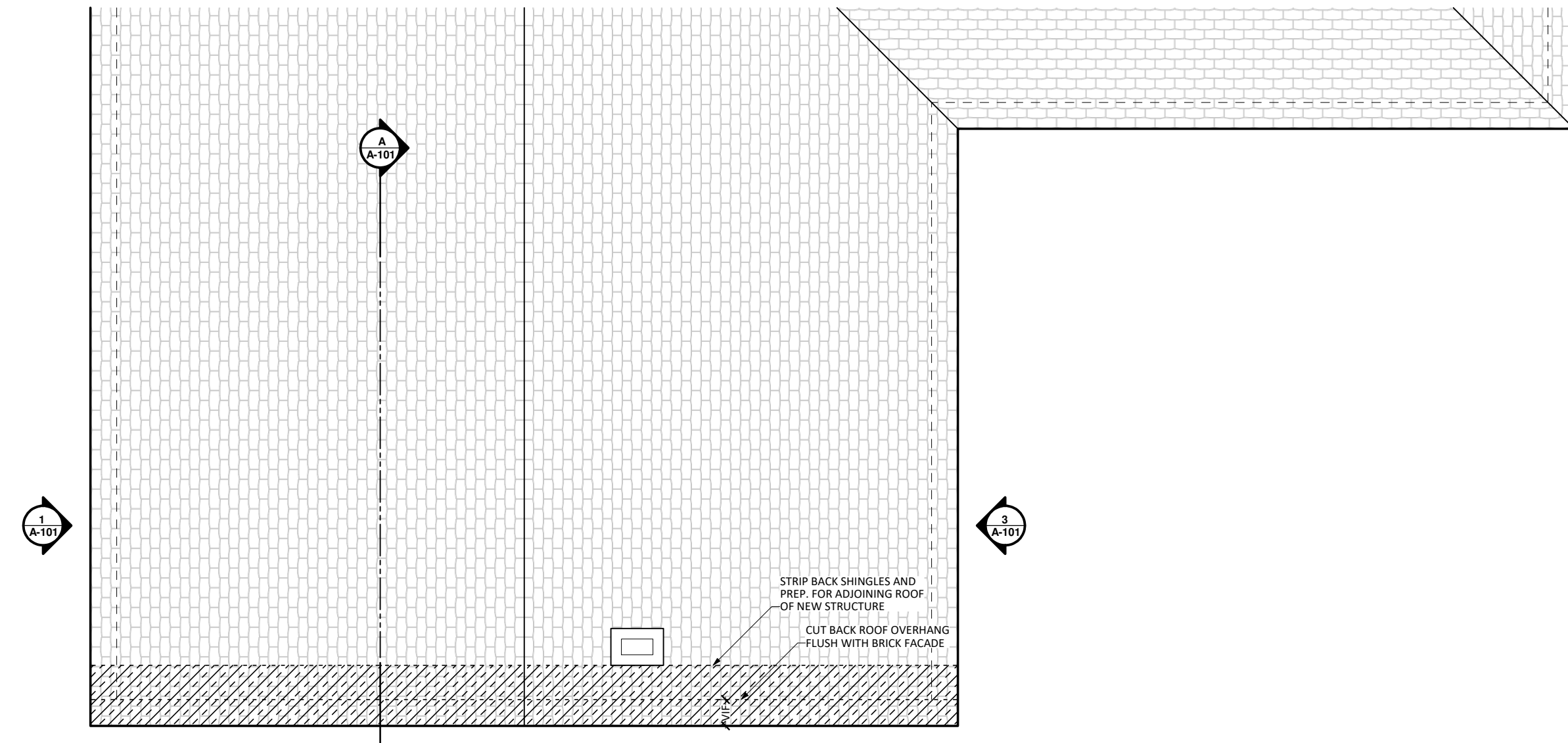
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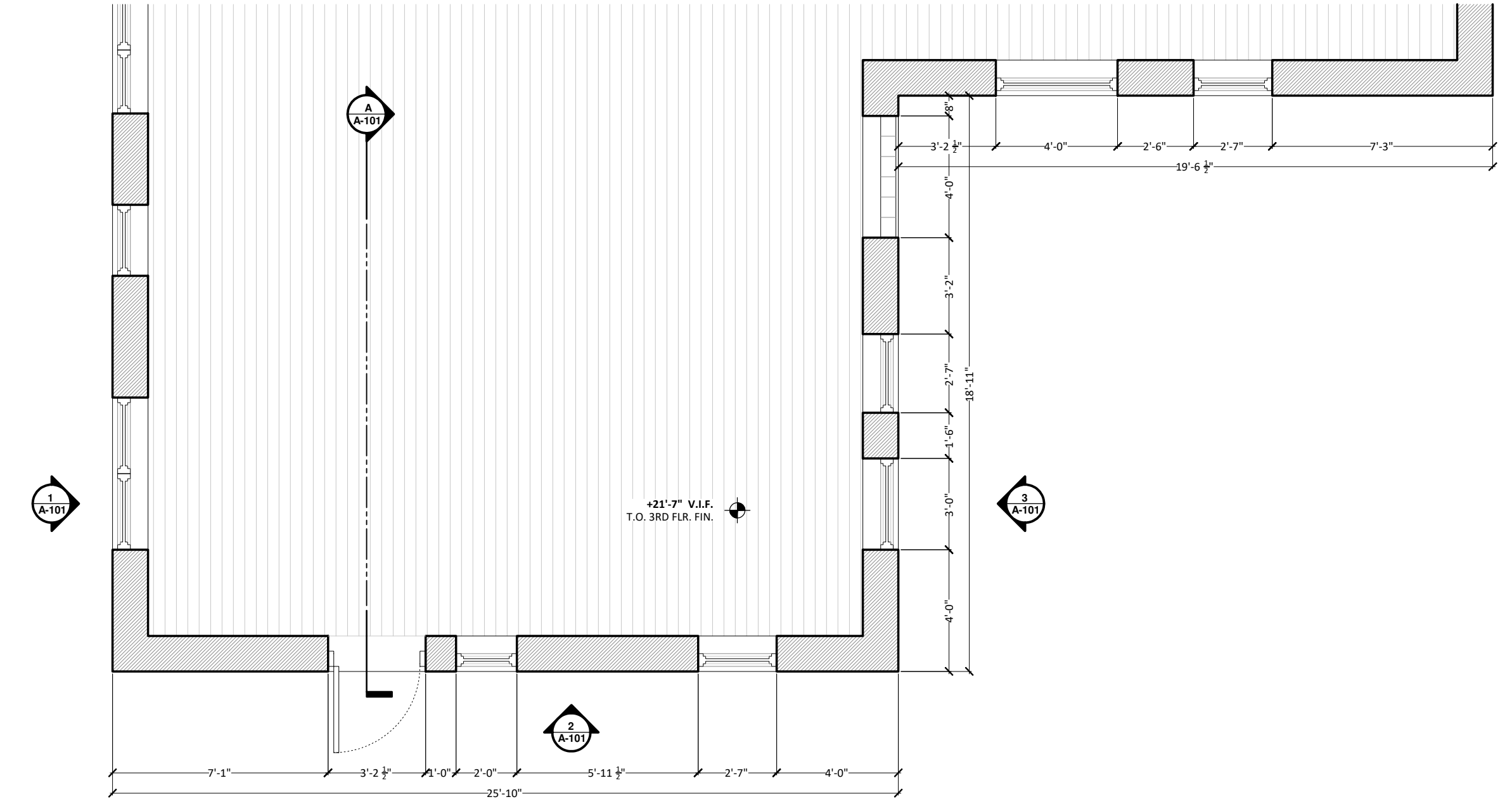
**2990 E. GRAND BOULEVARD**  
DETROIT, MI 48202

SCALE: 1/2" = 1'-0"  
SHEET SIZE: 24" x 36"  
**A-001**  
CODE NOTES, SITE PLAN,  
SHEET INDEX & SYMBOLS LEGEND

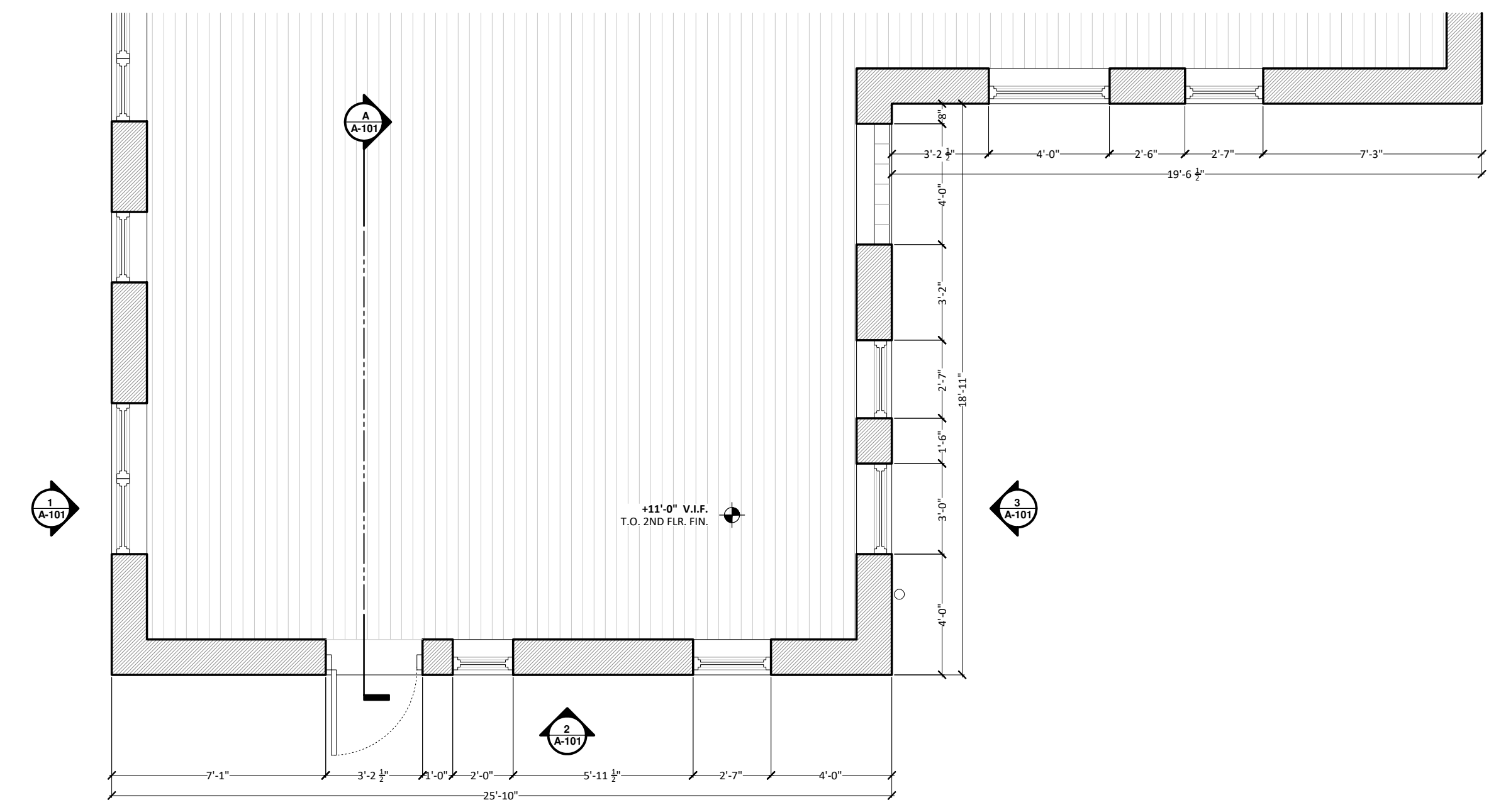




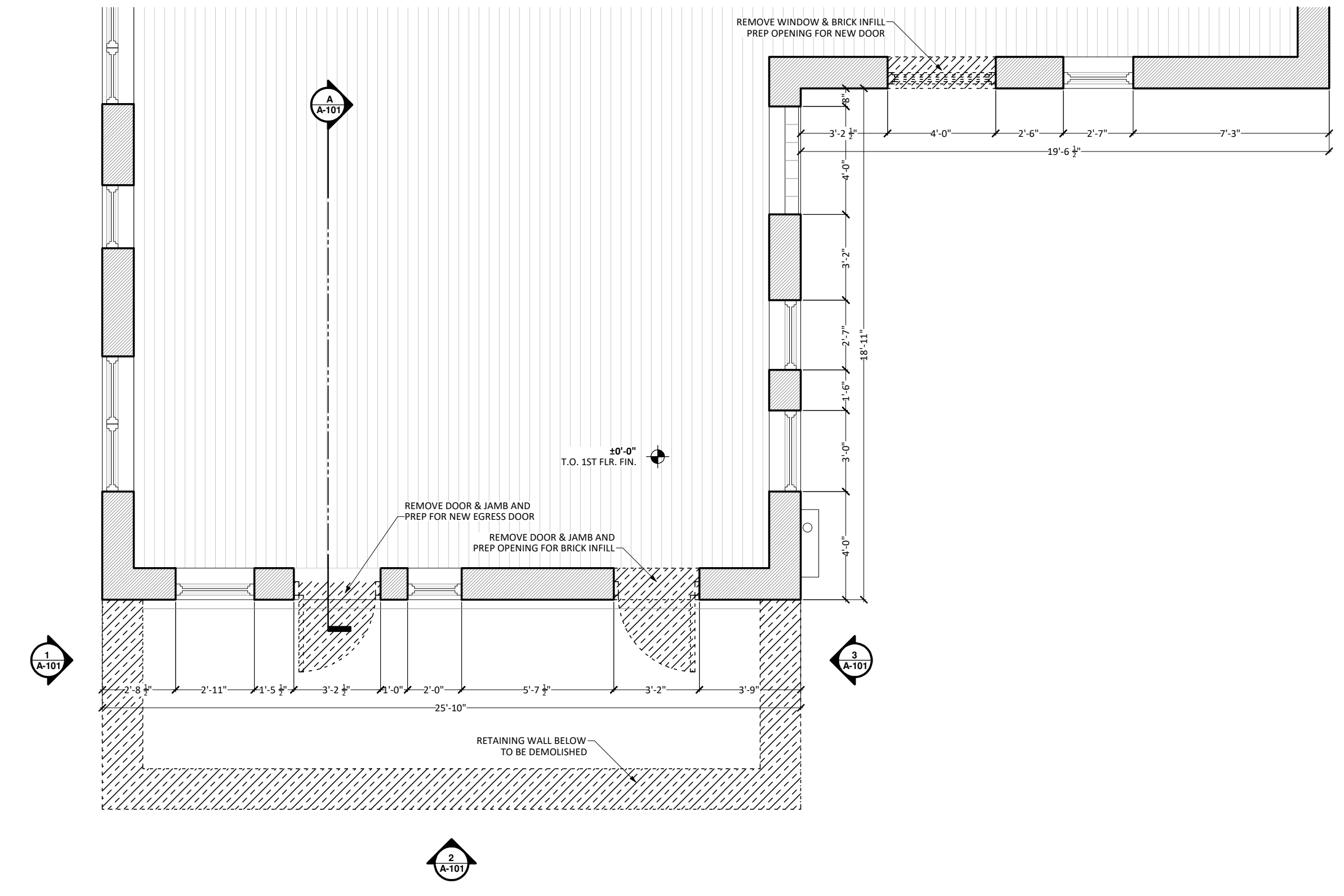
**4 PARTIAL ROOF PLAN**  
1/4" = 1'-0"



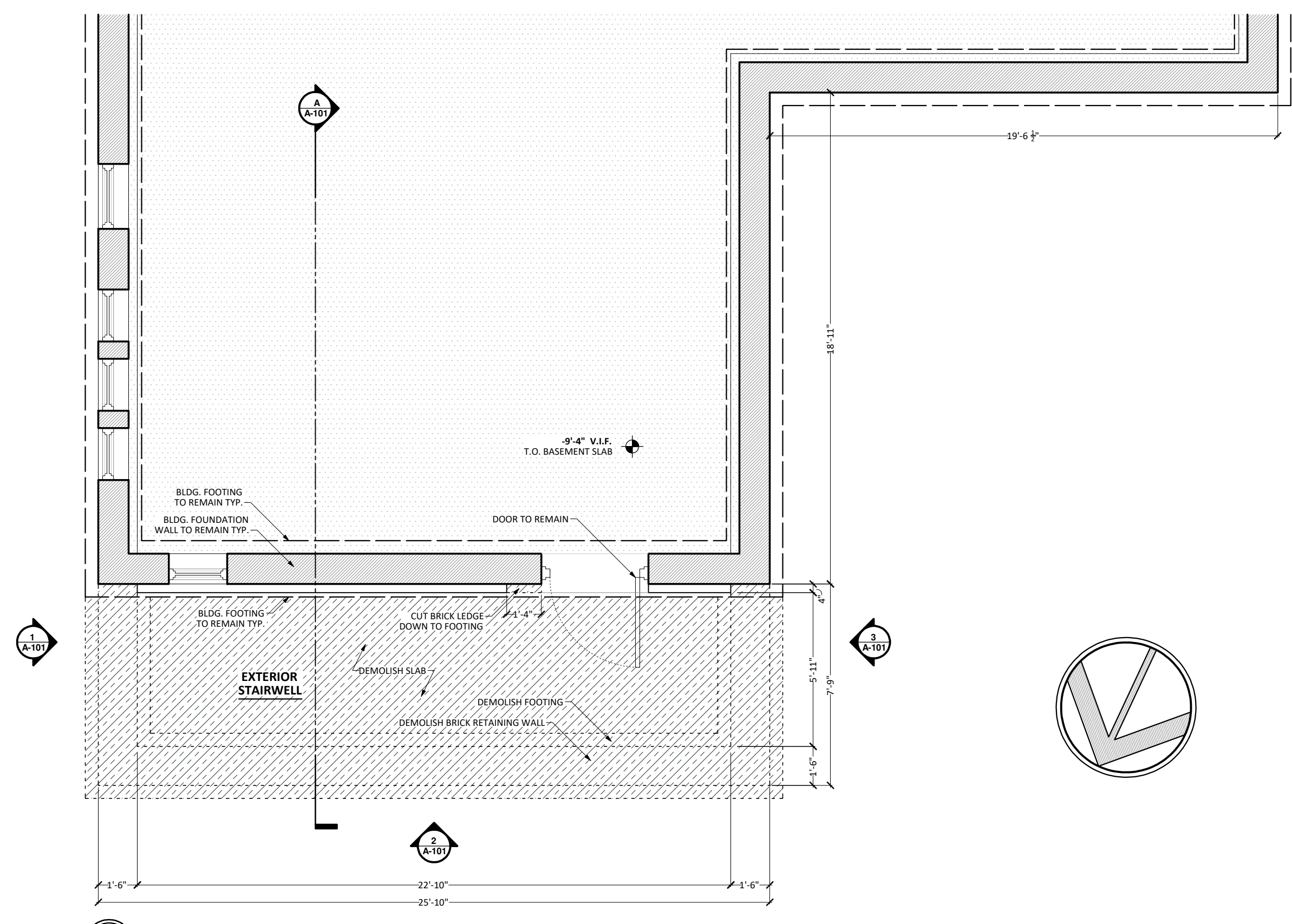
**3 PARTIAL 3RD FLOOR PLAN**  
1/4" = 1'-0"



**2 PARTIAL 2ND FLOOR PLAN**  
1/4" = 1'-0"



**1 PARTIAL 1ST FLOOR PLAN**  
1/4" = 1'-0"



**0 PARTIAL BASEMENT PLAN**  
1/4" = 1'-0"

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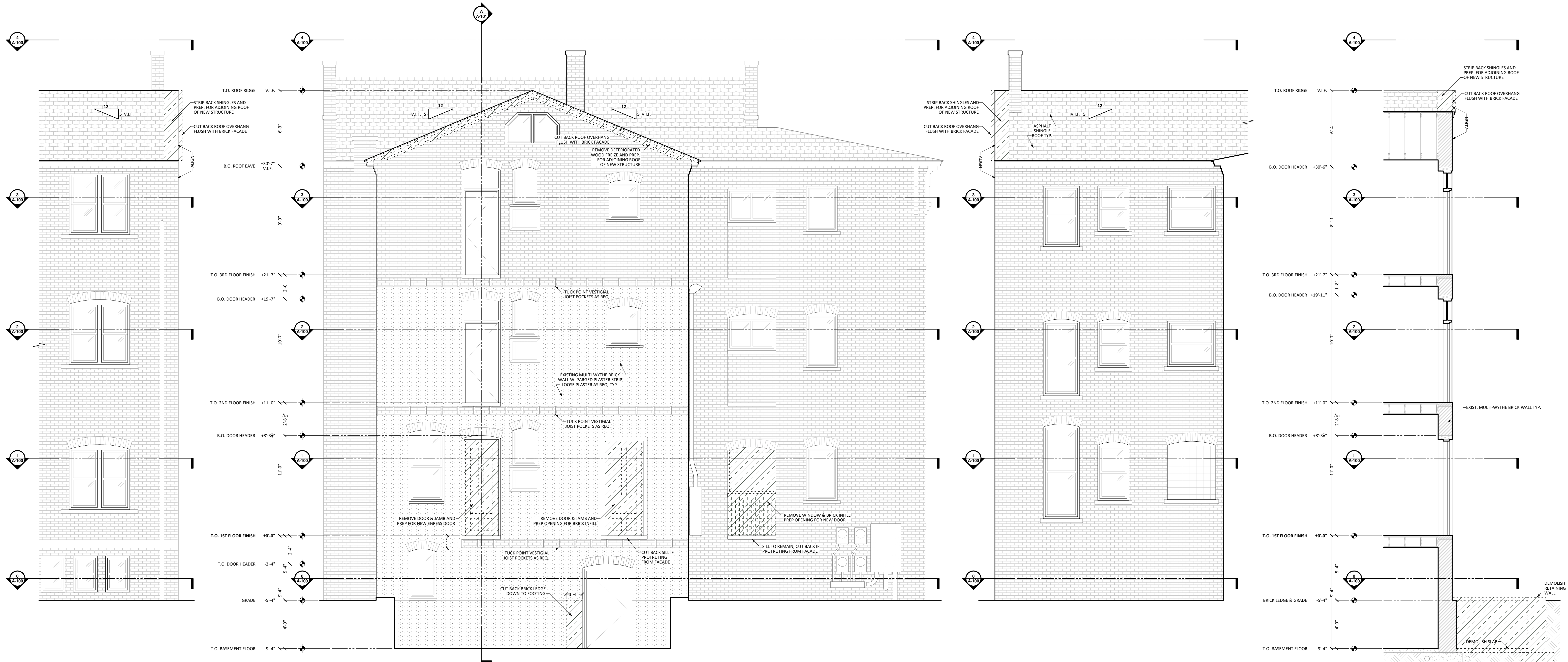
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SCALE: 1/4" = 1'-0"  
SHEET SIZE: 24" x 36"

**A-100**  
EXISTING PARTIAL PLANS



**1** PARTIAL EAST ELEVATION (FACING LOT)  
1/4" = 1'-0"

**2** PARTIAL NORTH ELEVATION (REAR FAÇADE)  
1/4" = 1'-0"

**3** PARTIAL WEST ELEVATION  
1/4" = 1'-0"

**A** PARTIAL SECTION THROUGH REAR FAÇADE  
1/4" = 1'-0"

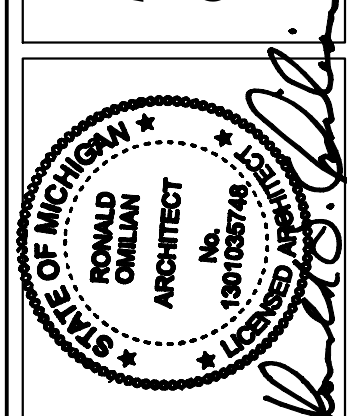
**A-101**  
EXISTING ELEVATIONS & SECTION

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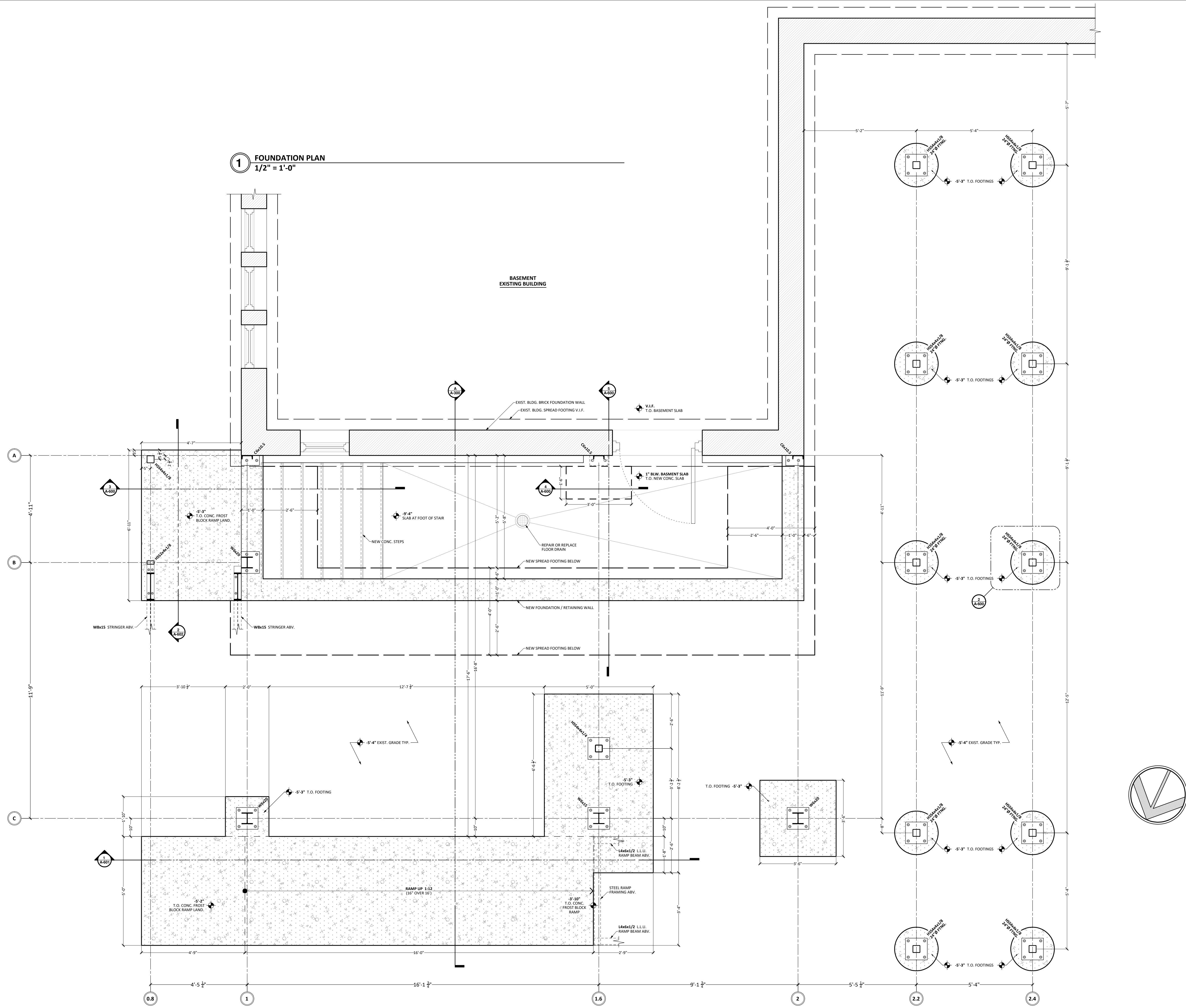
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**1 FOUNDATION PLAN**  
1/2" = 1'-0"



MARK	EGRESS	ACCESSIBLE	SIZE	SWING	STYLE	MAT. / FINISH	STATUS	SOURCE	HARWARE	LOCATION	FUNCTION	REMARKS
1	YES	NOT REG.	48" x 100"	RIGHT HAND	HINGED	CORTEN STEEL	NEW	FABRICATOR	P, D, C	SOUTHEAST ENTRY AT GRADE	MAIN ENTRANCE	
2	NO	NOT REG.	54" x 100"	LEFT HAND	HINGED	CORTEN STEEL	NEW	FABRICATOR	P, D, C	SOUTHWEST ENTRY AT GRADE	MAIN ENTRANCE ADDTL.	
3	NO	YES	48" x 120"	RIGHT HAND	HINGED	CORTEN STEEL	NEW	FABRICATOR	D, C	SOUTHWEST ENTRY AT 1ST FLR.	MAIN ENTRANCE ADDTL.	
4	YES	YES	36" x 96"	RIGHT HAND	HINGED	STEEL / PAINTED	NEW DOOR EXIST. OPENING	PREFAB	P, D, C	1ST FLOOR	ENTRY TO EXIST. BLDG.	
5	NO	NOT REG.	44" x 84"	LEFT HAND	HINGED	STEEL / PAINTED	NEW DOOR EXIST. OPENING	PREFAB	D, C	1ST FLOOR OF RAMP	SERVICE ENTRANCE	

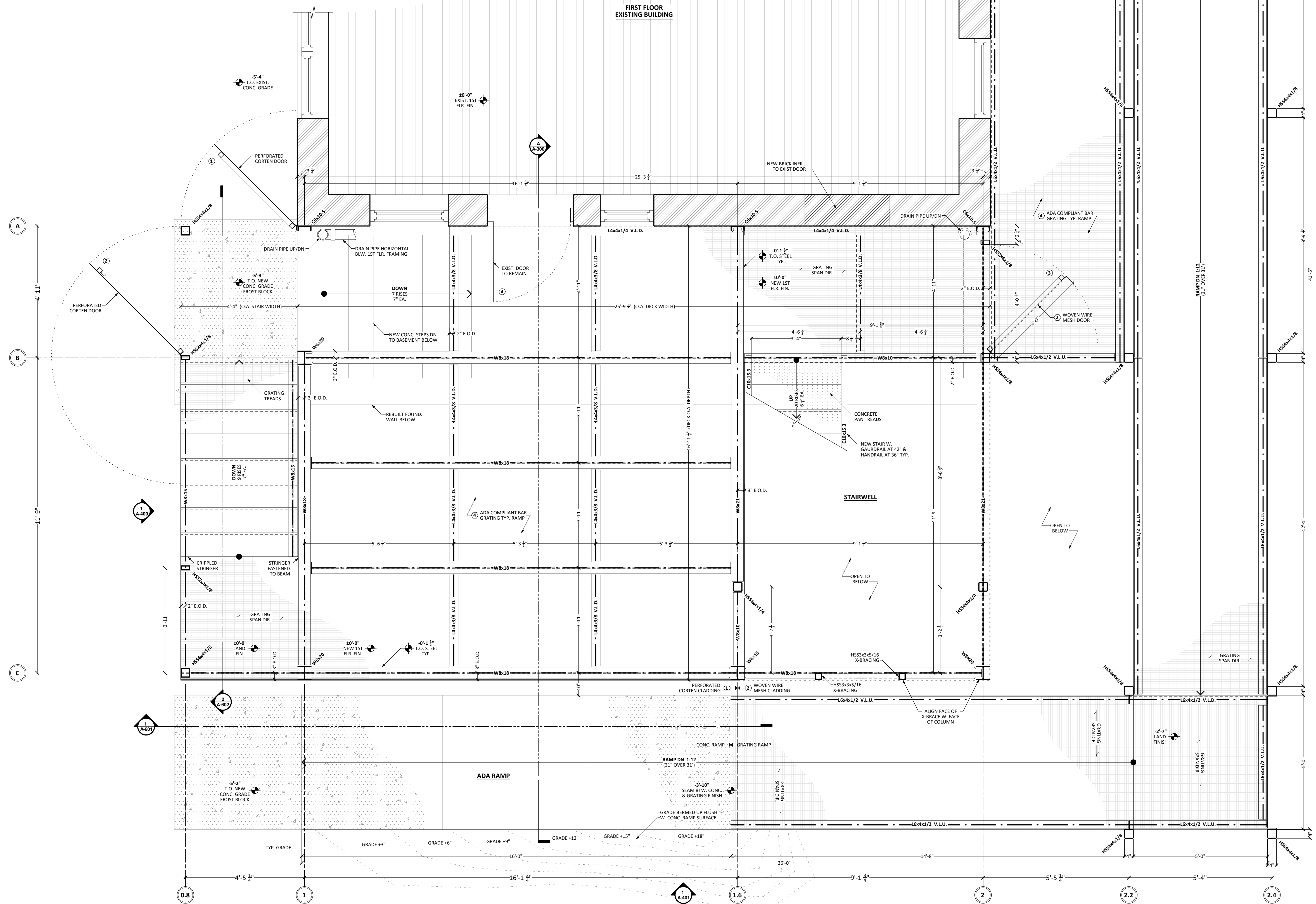
HARDWARE KEY	
MARK	MEANING
P	PANIC HARDWARE
D	DEADBOLT
M	MAUFACT. HARDWARE
C	SELF-CLOSING

### 2 DOOR SCHEDULE

MARK	TYPE	LOCATION(S)	STATUS	DIMENSIONS	MANUFACTURER	MODEL #	FINISH	REMARKS
1	REFORMED CORTEN SHEET METAL	FAÇADE CLADDING (SEE ELEVATIONS)	NEW	11 GA.	N.A.	N.A.	NATURAL PATINA	PERFORATED OPENINGS SHALL BE LESS THAN 4"Ø WHERE BLW. 42" A.F.F. & LESS THAN 9"Ø WHERE ABV. 42" A.F.F.
2	WOVEN WIRE MESH	FAÇADE CLADDING (SEE ELEVATIONS)	NEW	T.B.D.	T.B.D.	T.B.D.	PAINTED, COLOR T.B.D.	WIRE SPACING SHALL BE LESS THAN 4"Ø
3	TYPICAL BAR GRATING	SECOND & THIRD FLOOR DECKS	NEW	1-1/2" DEEP x 1-1/2" SPACING	T.B.D.	T.B.D.	PAINTED, COLOR T.B.D.	FASTEN TO FRAMING PER MFG. SPECS. / COPE AROUND COLUMNS, PLUMBING STACKS ETC.
4	ADA COMPLIANT BAR GRATING	FIRST FLOOR DECK, STEPS & RAMP	NEW	1-1/2" DEEP x 1-1/2" SPACING	T.B.D.	T.B.D.	PAINTED, COLOR T.B.D.	FASTEN TO FRAMING PER MFG. SPECS. / COPE AROUND COLUMNS, PLUMBING STACKS ETC.
5	STANDING SEAM METAL ROOFING	ROOF (SEE PLAN)	NEW	1-1/2" HIGH x 18" O.C.	N.A.	N.A.	CLEAR LACQUER	SEE: A-606 & A-607
6	POLYCARBONATE ROOF PANEL SYSTEM	ROOF (SEE PLAN)	NEW	16mm (5/8") THICK x 18" O.C.	LEXAN™ OR SIMILAR	16mm	U.V. COATING	SEE: A-606 & A-607

### 3 MATERIAL SCHEDULE

### 1 1ST FLOOR PLAN 1/2" = 1'-0"



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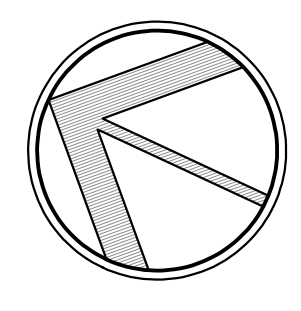
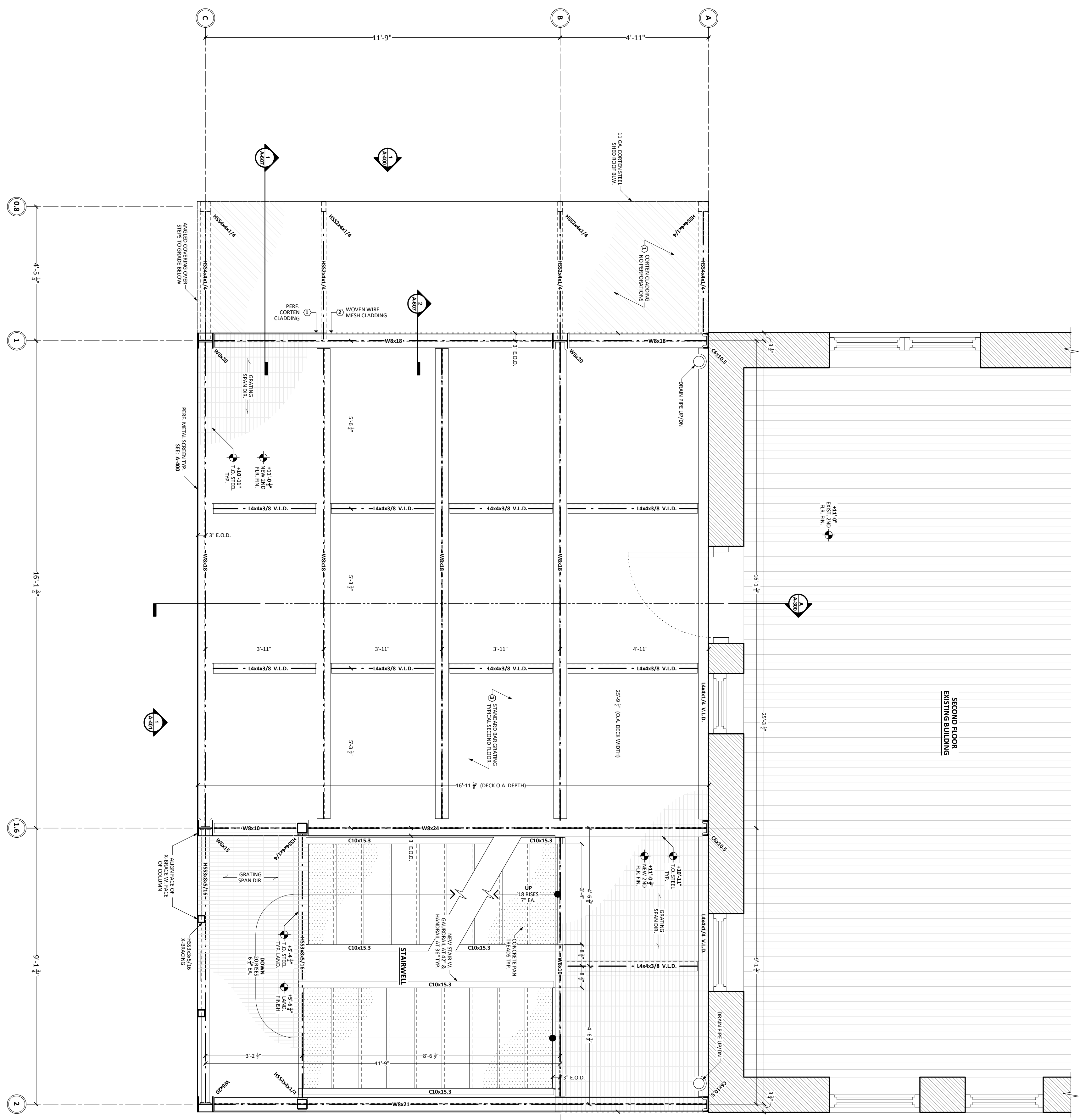
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 DATE: 08/25/2023  
 REV: A

**A-201**  
 SCALE: 1/2" = 1'-0"  
 SHEET SIZE: 24" x 36"  
**PROPOSED 1ST FLOOR FRAMING PLAN**



**1** 2ND FLOOR PLAN  
1/2" = 1'-0"



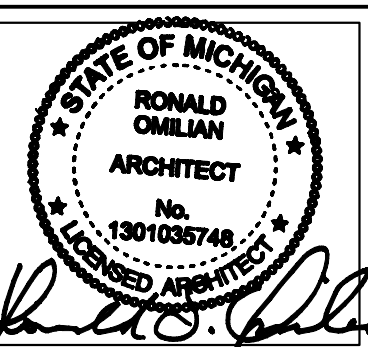
**A-202**  
SCALE: 1/2" = 1'-0"  
SHEET SIZE: 24" x 36"  
PROPOSED 2ND FLOOR FRAMING PLAN

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DETROIT, MI 48202

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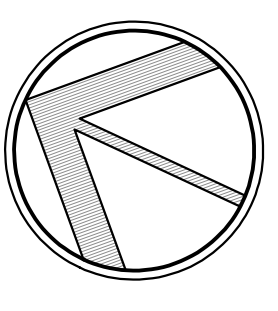
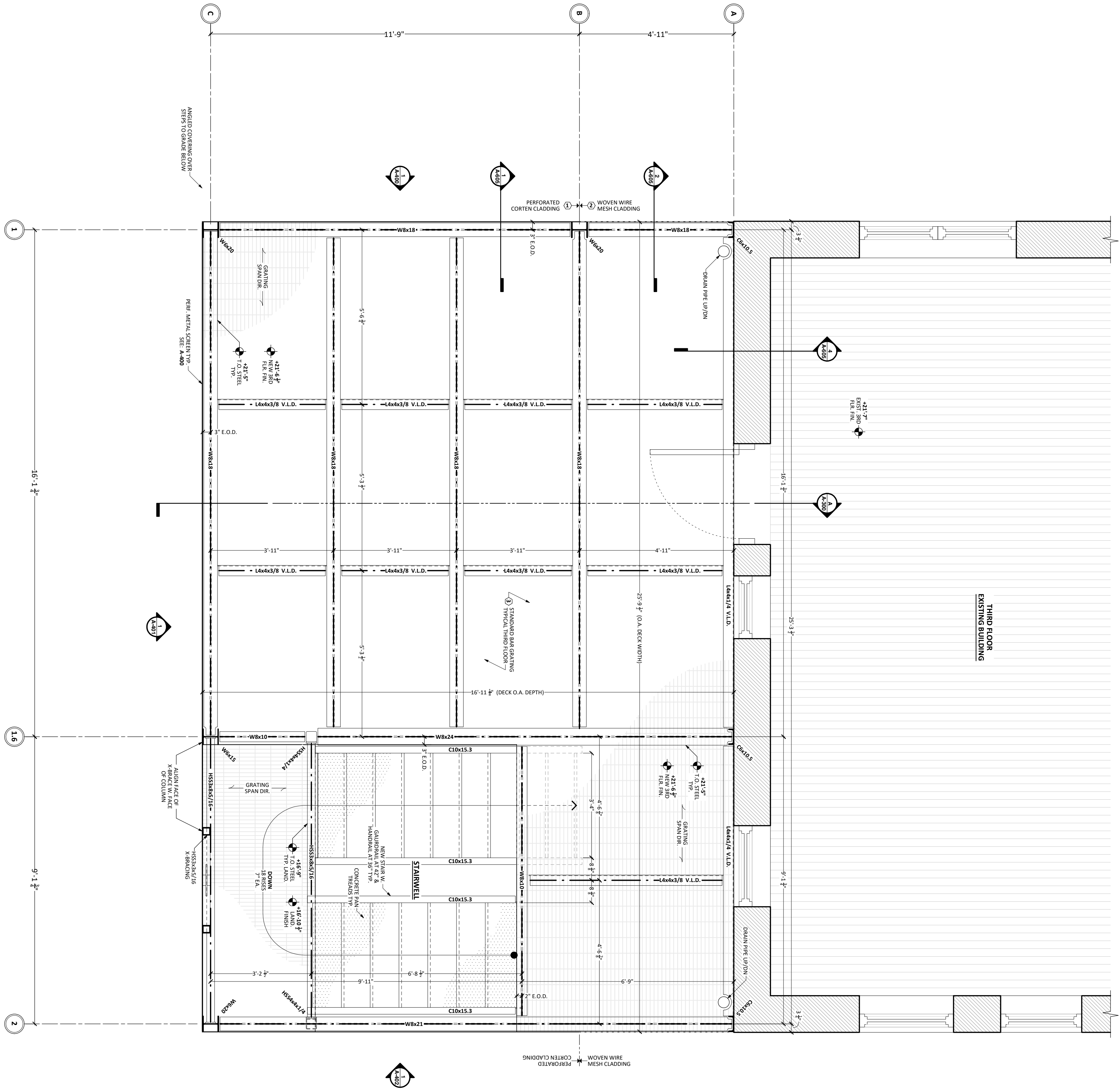
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**1** 3RD FLOOR PLAN  
1/2" = 1'-0"



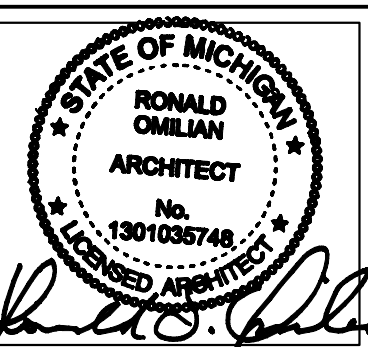
**A-203**  
SCALE: 1/2" = 1'-0"  
SHEET SIZE: 24" x 36"  
PROPOSED 3RD FLOOR FRAMING PLAN

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DETROIT, MI 48202

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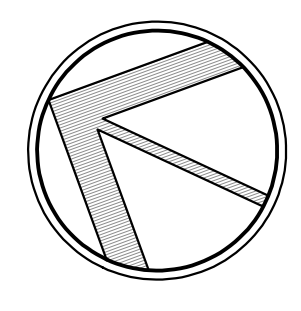
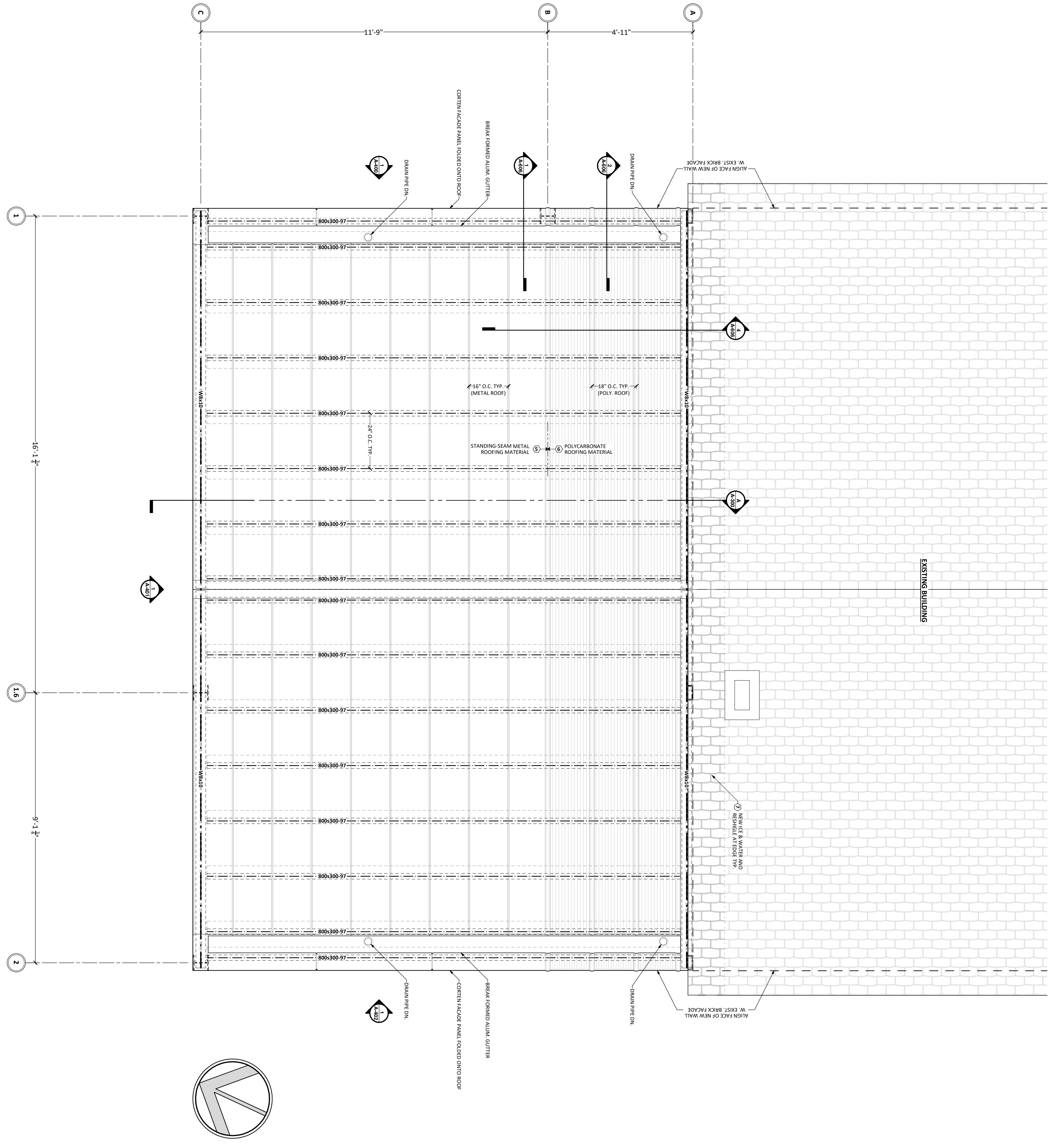
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**2** ROOF PLAN  
1/2" = 1'-0"



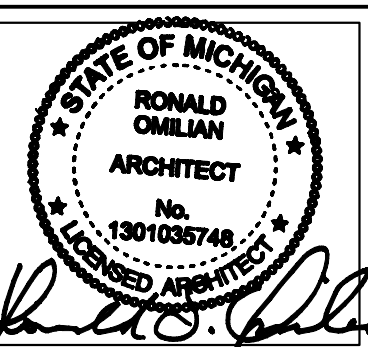
**A-204**  
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PROPOSED ROOF FRAMING PLAN

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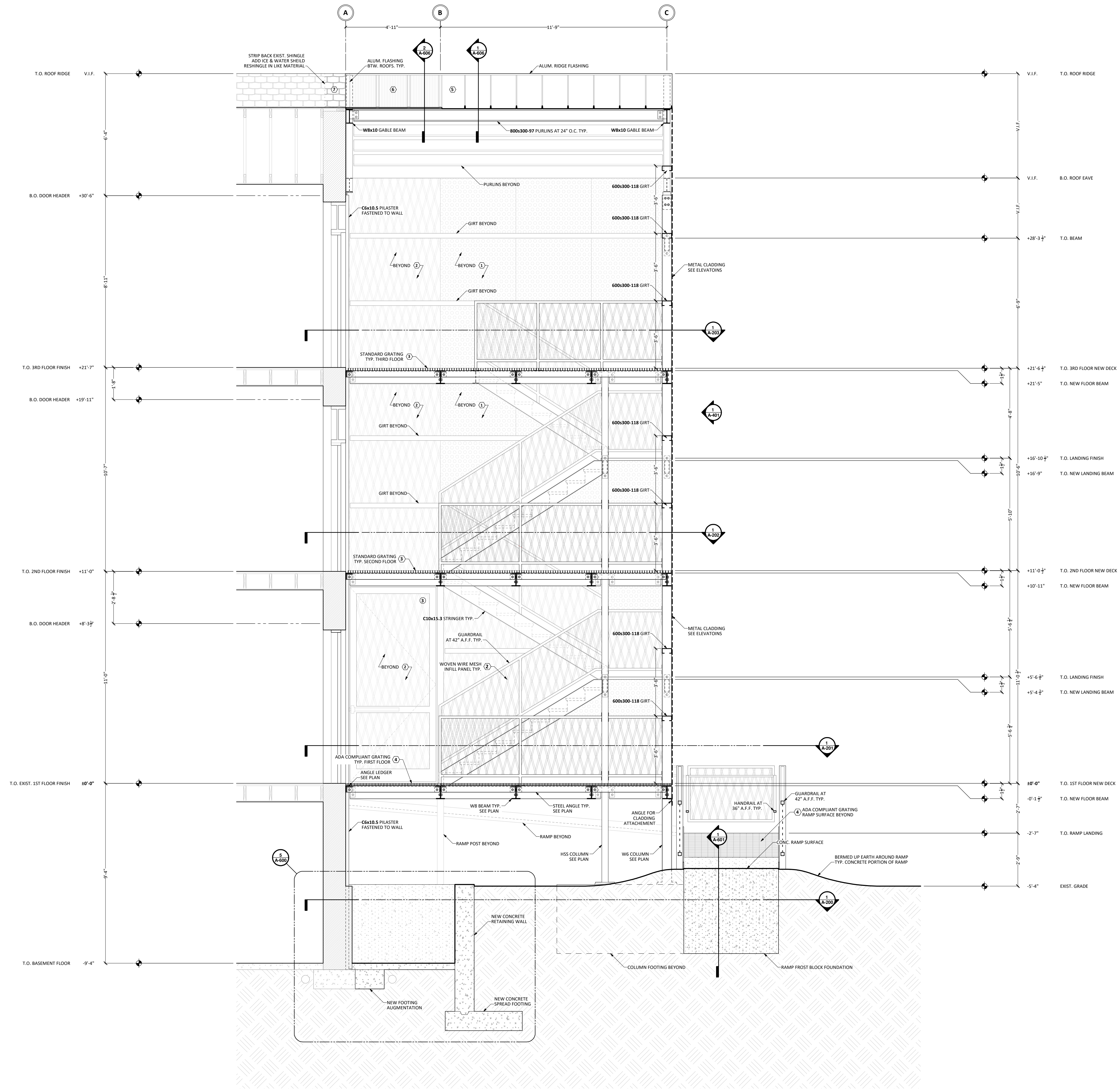
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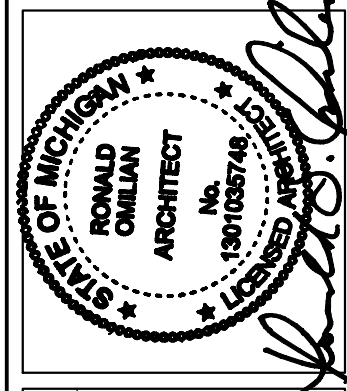


REMARKS:  
**PERMIT SET 100%**  
(NOT FOR CONSTRUCTION)



**1** PROPOSED NORTH-SOUTH SECTION  
 3/8" = 1'-0"

REMARKS:  
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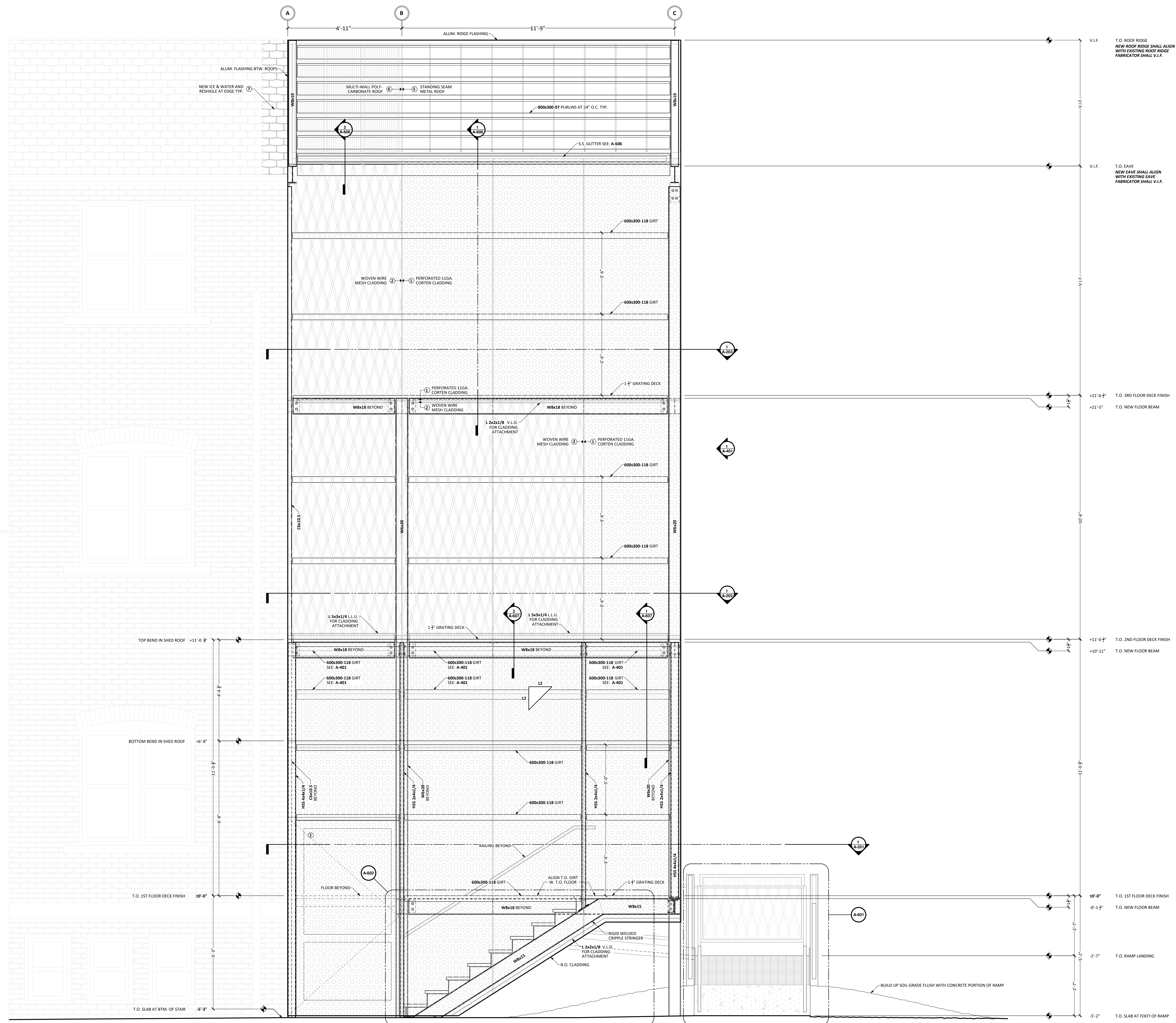
**OMILIAN & MORIN**  
 ARCHITECTURE & DESIGN, LLC  
 41 BURBROUGHS ST. SUITE 200P | DETROIT, MI 48202

ISSUED BY:	DATE:	REV. #:
ANTHONY MORIN	08/25/2023	

**2990 E. GRAND BOULEVARD**  
 DETROIT, MI 48202

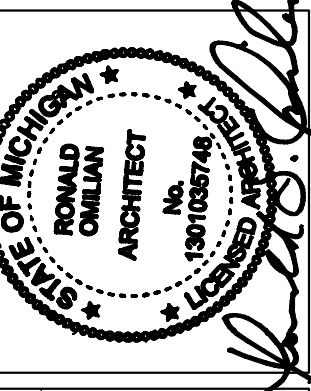
SCALE: 3/8" = 1'-0"  
 SHEET SIZE: 24" x 36"  
**A-300**  
 PROPOSED NORTH - SOUTH SECTION





**1** EAST ELEVATION  
1/2" = 1'-0"

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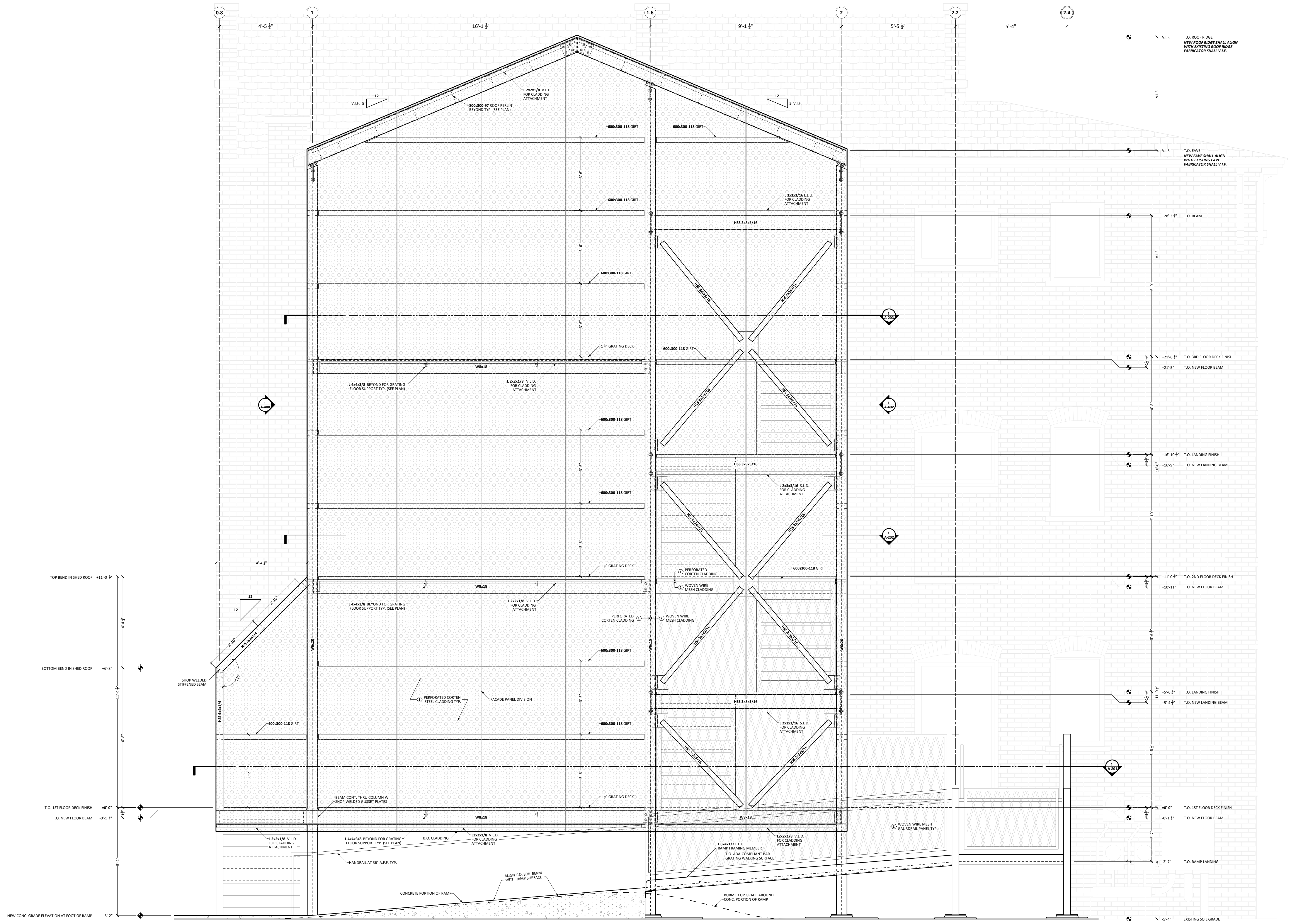
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ISSUED BY:	DATE:	REV. #:
ANTHONY MORIN	08 / 25 / 2023	

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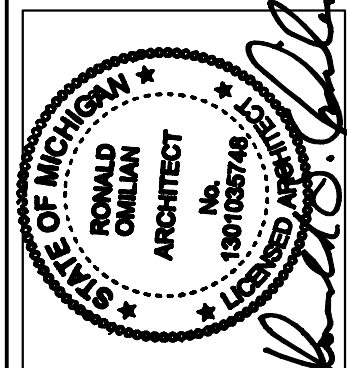
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 SCALE: 1/2" = 1'-0"  
 SHEET SIZE: 24" x 36"  
**PROPOSED EAST ELEVATION**





**1** NORTH ELEVATION  
1/2" = 1'-0"

REMARKS:  
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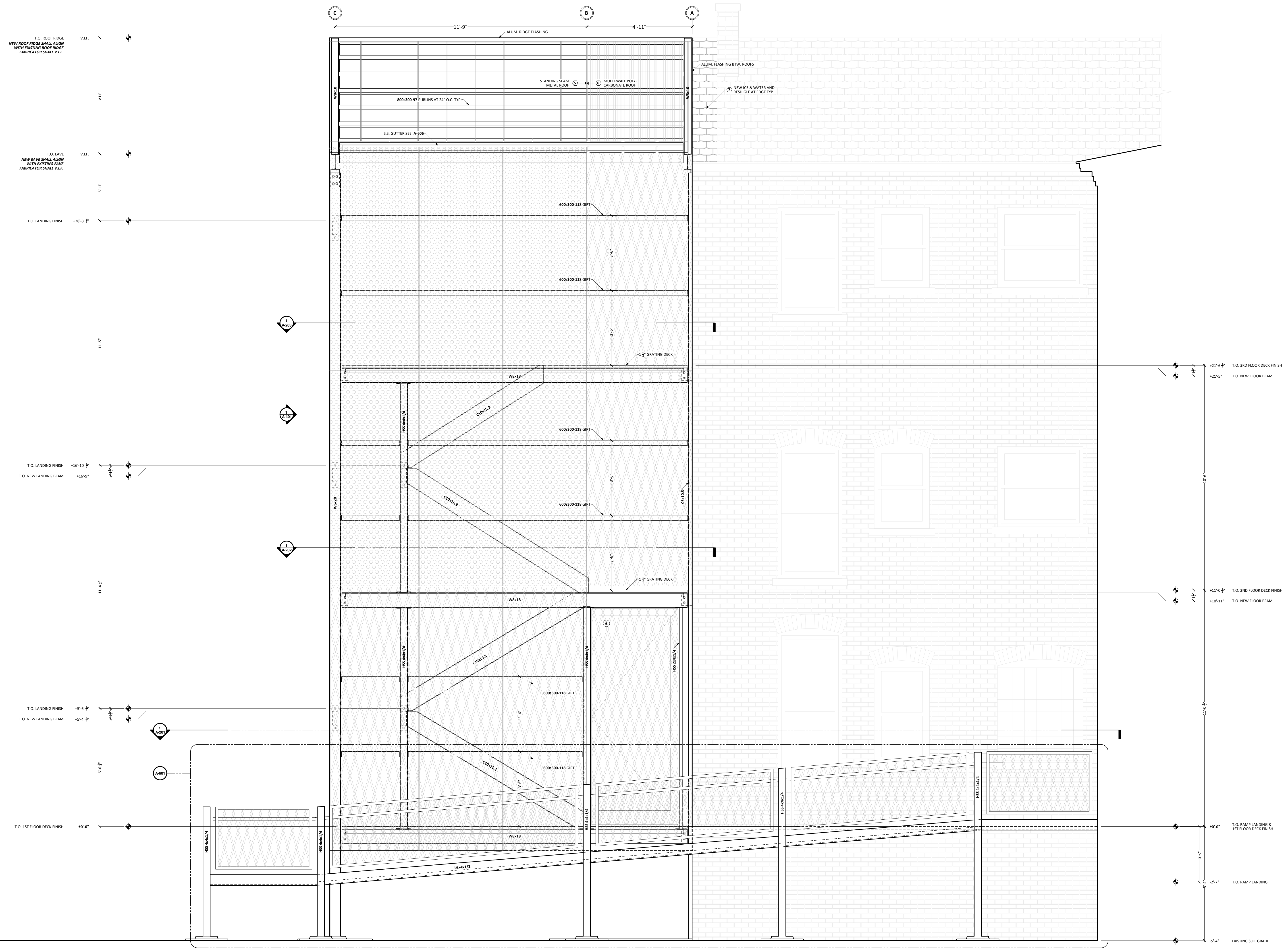
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ISSUED BY:	DATE:	REV #:
ANTHONY MORIN	08/25/2023	

**2990 E. GRAND BOULEVARD**  
 DETROIT, MI 48202

SCALE: 1/2" = 1'-0"  
 SHEET SIZE: 24" x 36"  
**A-401**  
 PROPOSED NORTH ELEVATION





T.O. ROOF RIDGE  
NEW ROOF RIDGE SHALL ALIGN  
WITH EXISTING ROOF RIDGE  
FABRICATOR SHALL V.F.F.

T.O. EAVE  
NEW EAVE SHALL ALIGN  
WITH EXISTING EAVE  
FABRICATOR SHALL V.F.F.

T.O. LANDING FINISH  
+28'-3"

T.O. LANDING FINISH  
+16'-10"  
T.O. NEW LANDING BEAM  
+16'-9"

T.O. LANDING FINISH  
+5'-6"  
T.O. NEW LANDING BEAM  
+5'-4"

T.O. 1ST FLOOR DECK FINISH  
10'-0"

**1** WEST ELEVATION  
1/2" = 1'-0"

REMARKS:  
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ISSUED BY: ANTHONY MORIN  
DATE: 08/25/2023

SCALE: 1/2" = 1'-0"  
SHEET SIZE: 24" x 36"

**A-402**  
PROPOSED WEST ELEVATION

## ENGINEERING DESIGN DATA

- 1) FOR ROOF AND FLOOR LOADS SEE DIAGRAMS
- 2) SNOW LOAD CRITERIA
  - a)  $p_g = 20$  psf
  - b)  $C_e = 0.9$
  - c)  $C_d = 1.0$
  - d)  $L = 1.0$
  - e)  $p_s = 12.6$  psf
  - f)  $p_m = 20$  psf
- 3) WIND LOAD CRITERIA
  - a)  $V = 115$  mph
  - b)  $K_{zt} = 1.0$
  - c)  $K_d = 0.85$
  - d)  $G = 0.85$
  - e)  $V_{adj} = 90.85$
- 4) SEISMIC LOAD CRITERIA
  - a)  $S_s = 0.092$
  - b)  $S_1 = 0.046$
  - c)  $F_a = 1.6$
  - d)  $F_v = 2.4$
  - e)  $S_{MS} = 0.147$
  - f)  $S_{M1} = 0.111$
  - g)  $S_{DS} = 0.098$
  - h)  $S_{D1} = 0.074$
  - i)  $T_s = 12$
  - j)  $PGA = 0.042$
  - k)  $PGAM = 0.068$
- 5) FLOOD DESIGN DATA  
N/A
- 6) SOILS DATA  
FOUNDATIONS DESIGNED FOR SOIL BEARING CAPACITY OF 2000 PSF. TEST TO VERIFY

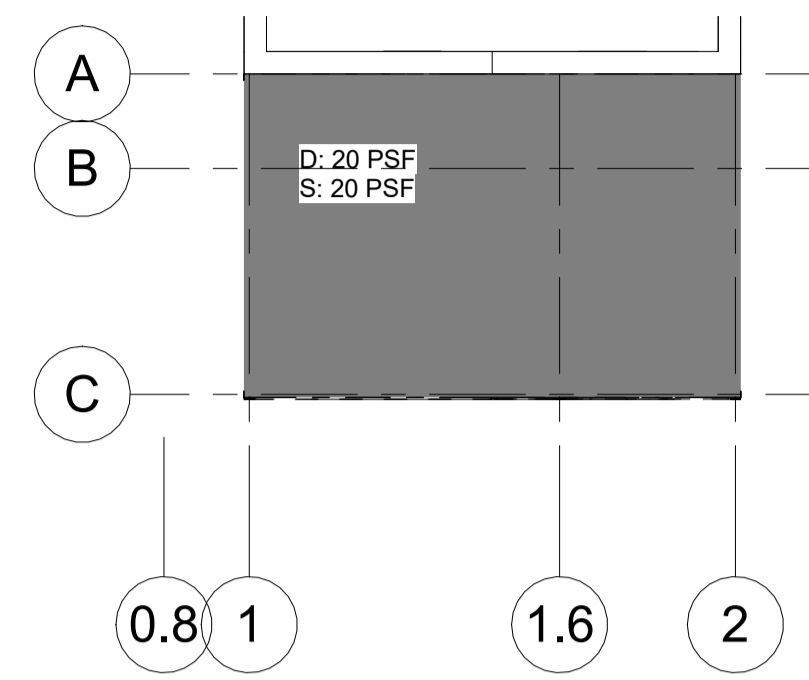
## APPLICABLE CODES

- 2015 MBC (GENERAL BUILDING CODES)
- IBC 2018 (GENERAL BUILDING CODES)
- ASCE 7-10 (LOADS)
- AISC 360-16 (STEEL)
- ACI 318-19 (CONCRETE)

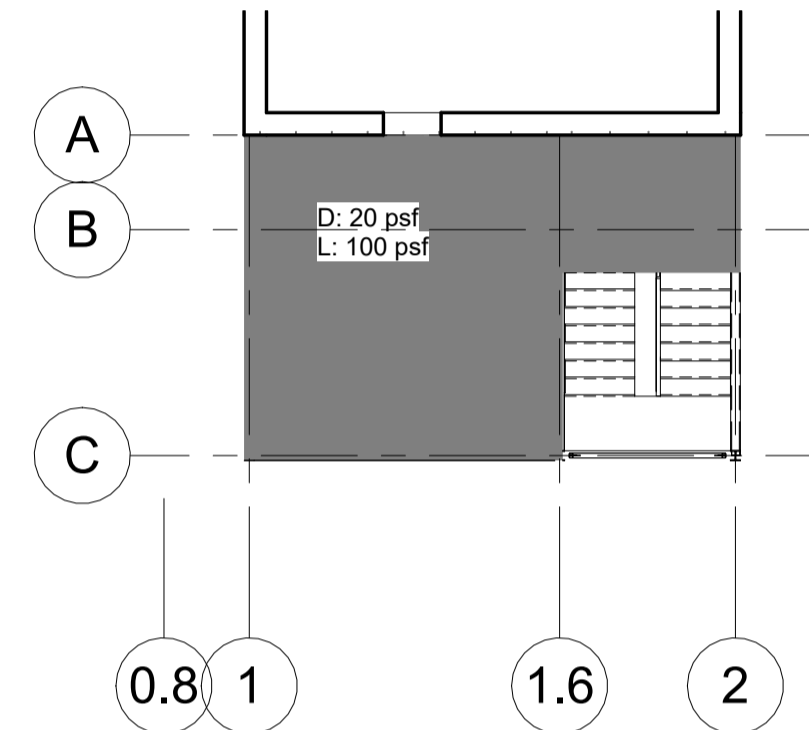
### Sheet List

Sheet Number	Sheet Name
S-104	FOUNDATION PLAN
S-101	ROOF FRAMING PLAN
S-103	FIRST FLOOR FRAMING
S-102	THIRD FLOOR FRAMING
S-202	ADDITIONAL DETAILS
S-201	FOUNDATION SECTIONS & DETAILS
S-001	LOADS AND CODES
S-003	GENERAL NOTES AND INSPECTIONS
S-401	ADDITIONAL DETAILS

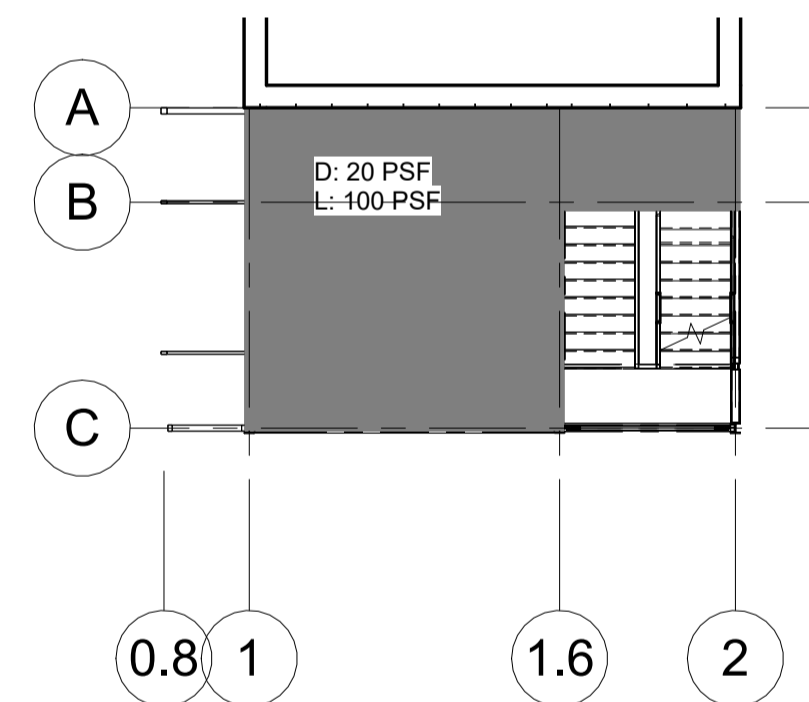
## DIAPHRAGM LOADING DIAGRAMS



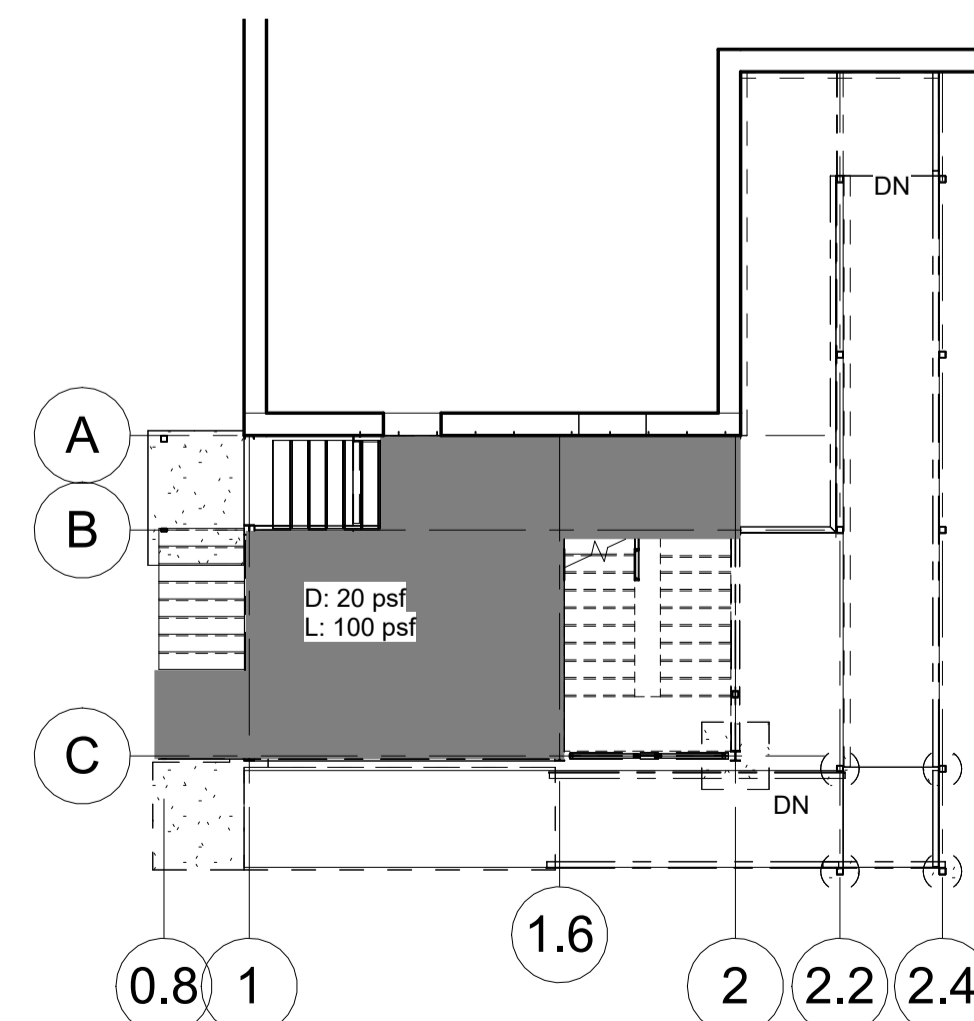
1 ROOF LOADING DIAGRAM  
1" = 10'-0"



2 THIRD FLOOR LOADING  
1" = 10'-0"



3 SECOND FLOOR LOADING  
1" = 10'-0"



4 FIRST FLOOR LOADING  
1" = 10'-0"

-NOTE-  
D: 20 psf LOADING ON STAIRWAYS  
L: 100 psf LOADING ON STAIRWAYS  
50 pif DISTRIBUTED LOAD OR 200 lbf POINT LOAD ON HANDRAILS

**SJW**  
Engineering LLC

REVISIONS:  
CLIENT REVIEW: 7-25-2023  
CONSTRUCTION DOC.: 8-16-2023

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### CUSTOMER DATA

2900 E. GRAND BLVD  
DETROIT, MI 48202

### PROJECT NO:

SJW 2023 0167

### DRAWN

J.NECELIS

### CHECKED

S. WHITICAN PhD PE

### APPROVED

### SCALE

AS INDICATED

### DATE

07/24/23

### SHEET NO.

S-001

### LOADS AND CODES





**CMU GENERAL NOTES**

1. CODES AND STANDARDS:
  - a. COMPLY WITH PROVISIONS OF FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN OR SPECIFIED:
    - 1) ACI 530-14, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
    - 2) ACI 530.1-14, SPECIFICATIONS FOR MASONRY STRUCTURES.
2. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND IMPLEMENTATION OF ALL TEMPORARY SHORING.
3. MATERIALS
  - a. CONCRETE MASONRY UNITS:
    - 1) ASTM C90, MINIMUM COMPRESSIVE STRENGTH ON THE NET AREA AS INDICATED IN REINFORCED HOLLOW CONCRETE MASONRY GENERAL NOTES.
    - 2) FOR ALIGNMENT OF CELLS TO RECEIVE REINFORCEMENT AND GROUT, BLOCK SHALL BE 2-CELL UNITS, WITH A RECOMMENDED OPEN END AT ONE SIDE.
  - b. MORTAR:
    - 1) PORTLAND CEMENT LIME MORTAR OR MASONRY CEMENT MORTAR, IN ACCORDANCE WITH ASTM C 270, TYPE S.
  - c. GROUT:
    - 1) COMPLY WITH ASTM C 476.
    - 2) UNLESS OTHERWISE INDICATED, USE TYPE (FINE OR COARSE) SLUMP: 8 TO 11 INCHES, IN ACCORDANCE WITH ASTM C 143.
  - d. REINFORCEMENT BARS:
    - 1) PROVIDE GRADE ASTM A 615 - GRADE 60, DEFORMED, EXCEPT AS OTHERWISE INDICATED.
    - 2) SHOP-FABRICATE REINFORCEMENT BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.
    - 3) REINFORCING:  $f_y=60,000$  PSI WITH A MIN. LAP OF 48 BAR DIAMETERS
4. ANCHOR REINFORCED MASONRY WORK TO SUPPORTING STRUCTURE AS INDICATED.
5. UNLESS OTHERWISE NOTED, PROVIDE L5X3-1/2X5/16 L.L.V LINTEL FOR OPENINGS UP TO 60" WIDE.

**STRUCTURAL STEEL GENERAL NOTES**

1. WELDS TO BE CONDUCTED BY CERTIFIED WELDER, WELDING MATERIALS AND METHODS MUST COMPLY WITH AWS CODE.
2. ANCHOR BOLTS, ANCHOR RODS PER DRAWINGS.
3. ALL STEEL ELEMENTS TO BE PAINTED OR PRIMED WITH RUST INHIBITING PAINT OR PRIMER. WELDED OR FIREPROOFED SURFACES TO BE FREE OF PAINT.
4. SHOP DRAWINGS TO BE PROVIDED OF ALL STRUCTURAL STEEL, INCLUDING CONNECTIONS AND ATTACHMENTS.
5. SHOP DETAILS, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CURRENT AISC "SPECIFICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND AISC "DETAILING FOR STEEL CONSTRUCTION".
6. STRUCTURAL STEEL SHALL CONFORM TO THE YIELD STRENGTH ( $F_y$ ) LISTED BELOW:
  - a. W, WT SHAPES, ASTM A992 50 KSI
  - b. HSS SQUARE AND RECTANGULAR, ASTM A500 GR B 46 KSI
  - c. HSS ROUND, ASTM A500 GR B 42 KSI
  - d. PIPE, ASTM A53 GR B 35 KSI
  - e. ALL OTHER PLATES AND SHAPES, U.O.N., ASTM A36 36 KSI
7. ANGLES ASSUMED LONG LEG VERTICAL (LLV) UNLESS OTHERWISE NOTED.
8. WELDS ON THIS PROJECT TO BE 4/16" FILLET WELDS MIN. FULL WELD. FOR WELDS LONGER THAN 8", SKIP WELD 2" / 12" ENSURE BOTH ENDS OF PLATES ARE WELDED WHEN SKIP WELDING

**CONCRETE**

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:
  - a. FOUNDATIONS, GRADE BEAMS, TRENCH FOOTINGS: 3000 PSI
  - b. SLAB ON GRADE: 4000 PSI
2. CONCRETE BAR REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615 (60,000 PSI YIELD).
3. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A-1064, AND SHALL BE FURNISHED AND PLACED IN FLAT SHEETS.
4. UNLESS OTHERWISE NOTED, CONCRETE WORK SHALL CONFORM TO THE ACI STANDARD "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-19) AND THE ACI "DETAILING MANUAL" (SP-66 2004 EDITION).
5. WALLS AND PIERS SHALL BE DOWELED TO FOOTINGS. WALL & PIER DOWELS SHALL BE SAME SIZE AS WALL AND PIER VERTICAL REINFORCING U.O.N.
6. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS.
7. MINIMUM CONCRETE COVER SHALL BE (UNLESS OTHERWISE NOTED):
  - a. UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING BOTTOMS): 3"
  - b. SLABS ON GRADE (TOP COVER): 3/4"
  - c. FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (GRADE BEAMS, WALLS, ETC.): 2"
  - d. PIER VERTICAL REINFORCING OR TIES: 1-1/2"
  - e. INTERIOR AND EXTERIOR STRUCTURAL SLABS: 1"
  - f. INTERIOR WALL SURFACES 1"
  - g. IN ALL CASES, CLEARANCE NOT LESS THAN THE DIAMETER OF THE BARS.
8. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES, AND HOOKED AT DISCONTINUOUS ENDS.

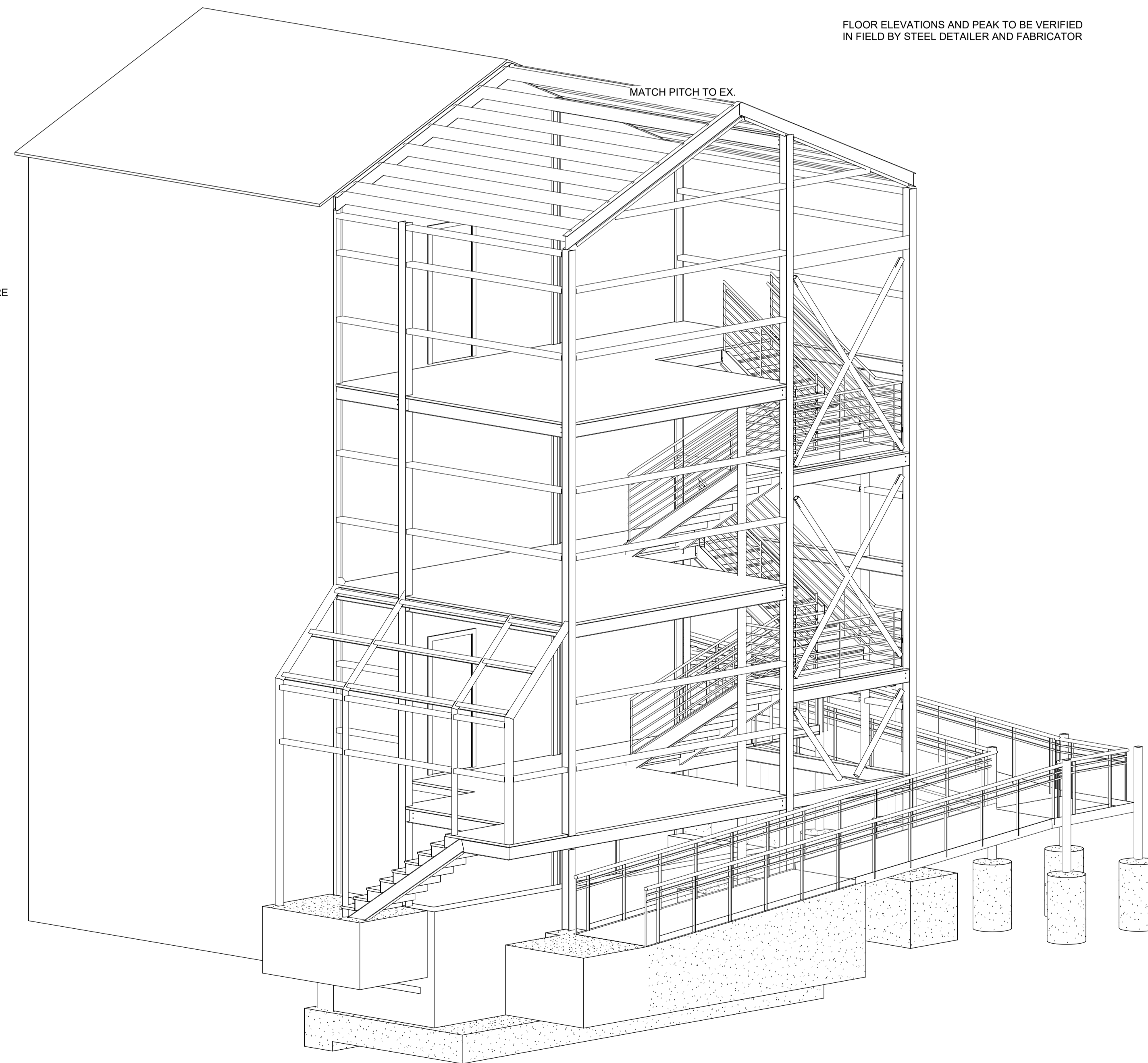
**DELEGATED DESIGN**

THE FOLLOWING ITEMS ARE FOR DELEGATED DESIGN

- a. STRUCTURAL PRECAST CONCRETE WALL PANELS
- b. STRUCTURAL PRECAST CONCRETE TEMPORARY BRACING
- c. STRUCTURAL STEEL CONNECTIONS
- d. COLD FORMED METAL FRAMING

**SPECIAL INSPECTION**

1. WORK CONSTRUCTED SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY TO ENSURE COMPLIANCE WITH THE REQUIREMENTS SHOWN ON THE DRAWINGS.



REVISIONS:

CLIENT REVIEW:	7-25-2023
CONSTRUCTION DOC.:	8-16-2023

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**CUSTOMER DATA**

2900 E. GRAND BLVD  
DETROIT, MI 48202

**PROJECT NO.:**

SJW 2023 0167

**DRAWN**

J.NECELIS

**CHECKED**

S. WHITICAN PhD PE

**APPROVED**

**SCALE**

AS INDICATED

**DATE**

07/24/23

**SHEET NO.**

S-003

**GENERAL NOTES AND INSPECTIONS**



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CLIENT REVIEW: 7-25-2023  
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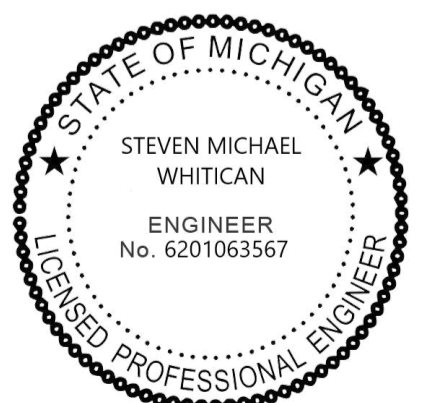
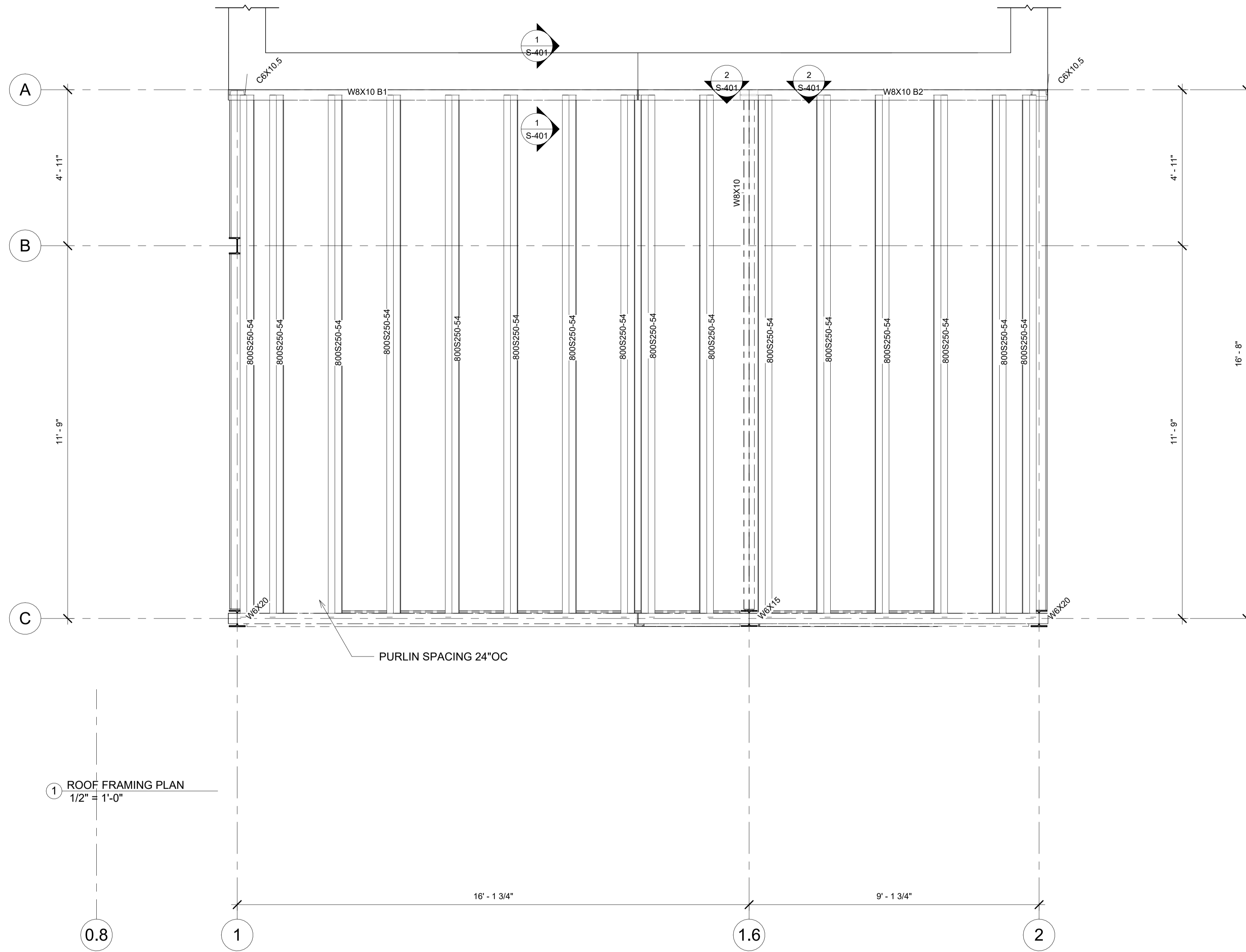
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6/2/2023

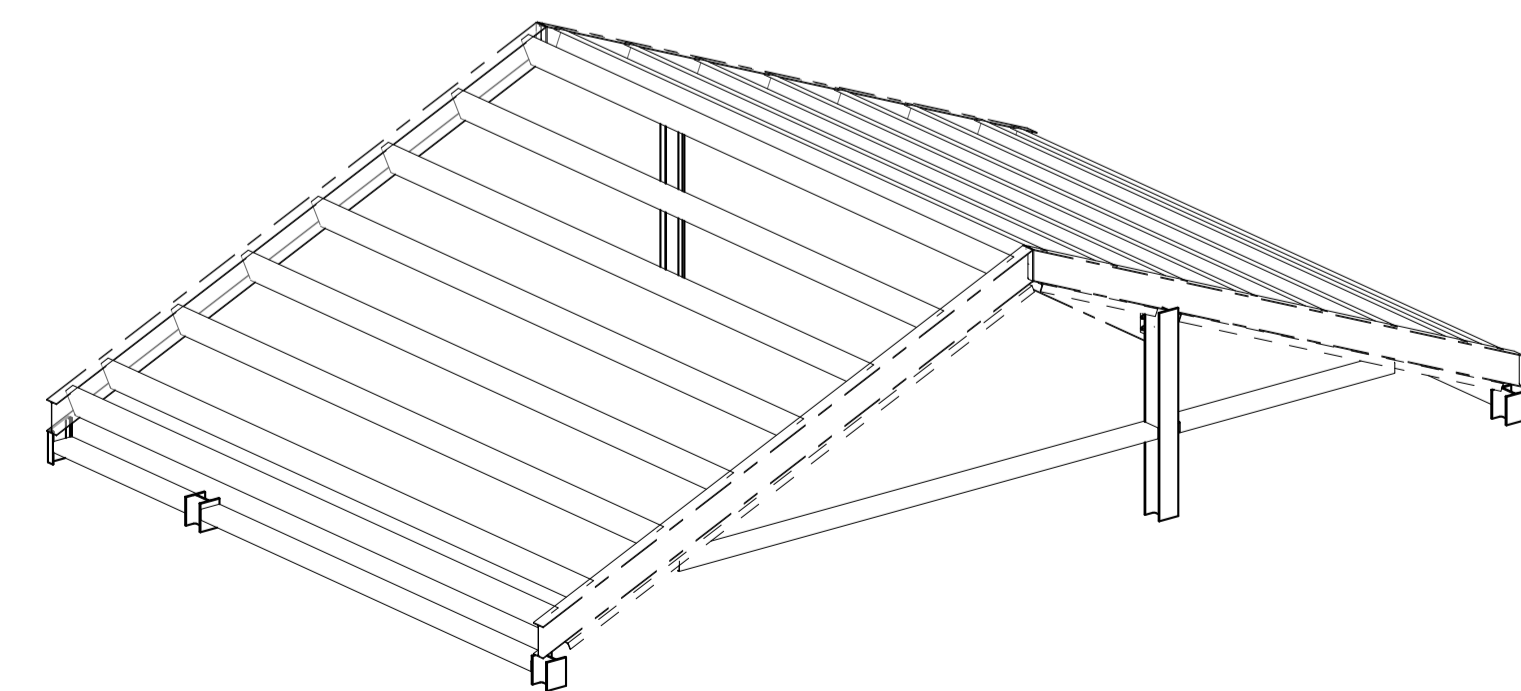
SHEET NO.

S-101

ROOF FRAMING PLAN

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



3 ROOF



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DRAWN

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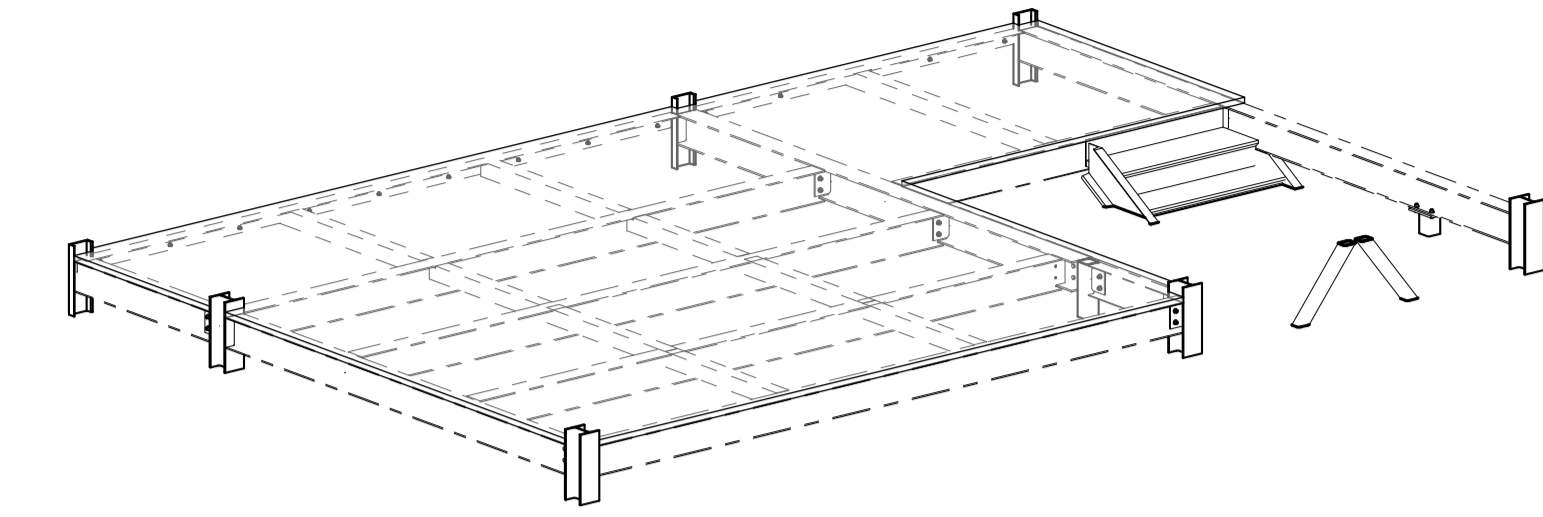
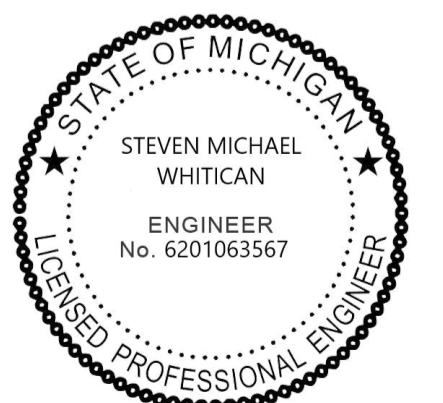
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5/25/2023

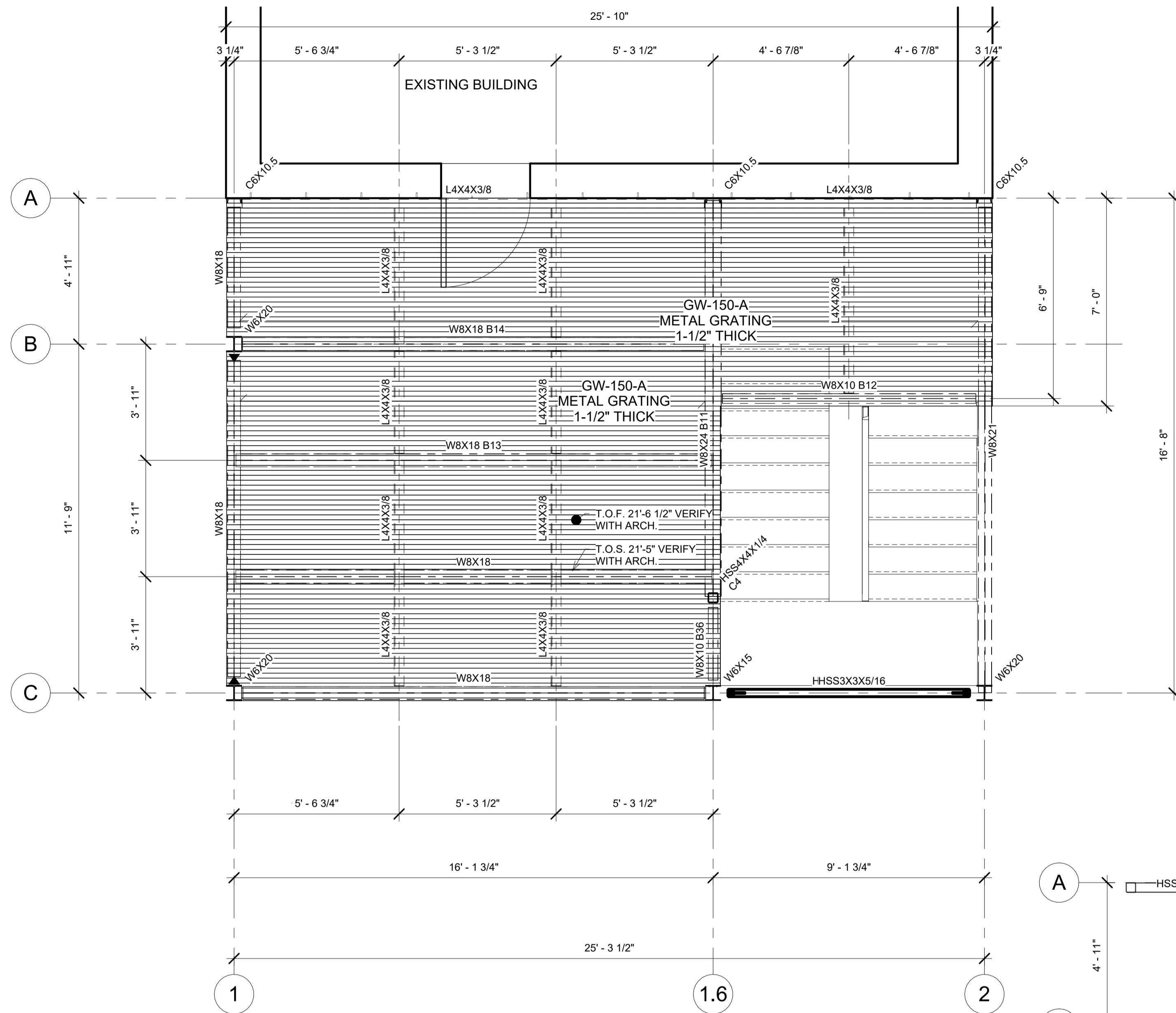
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S-102

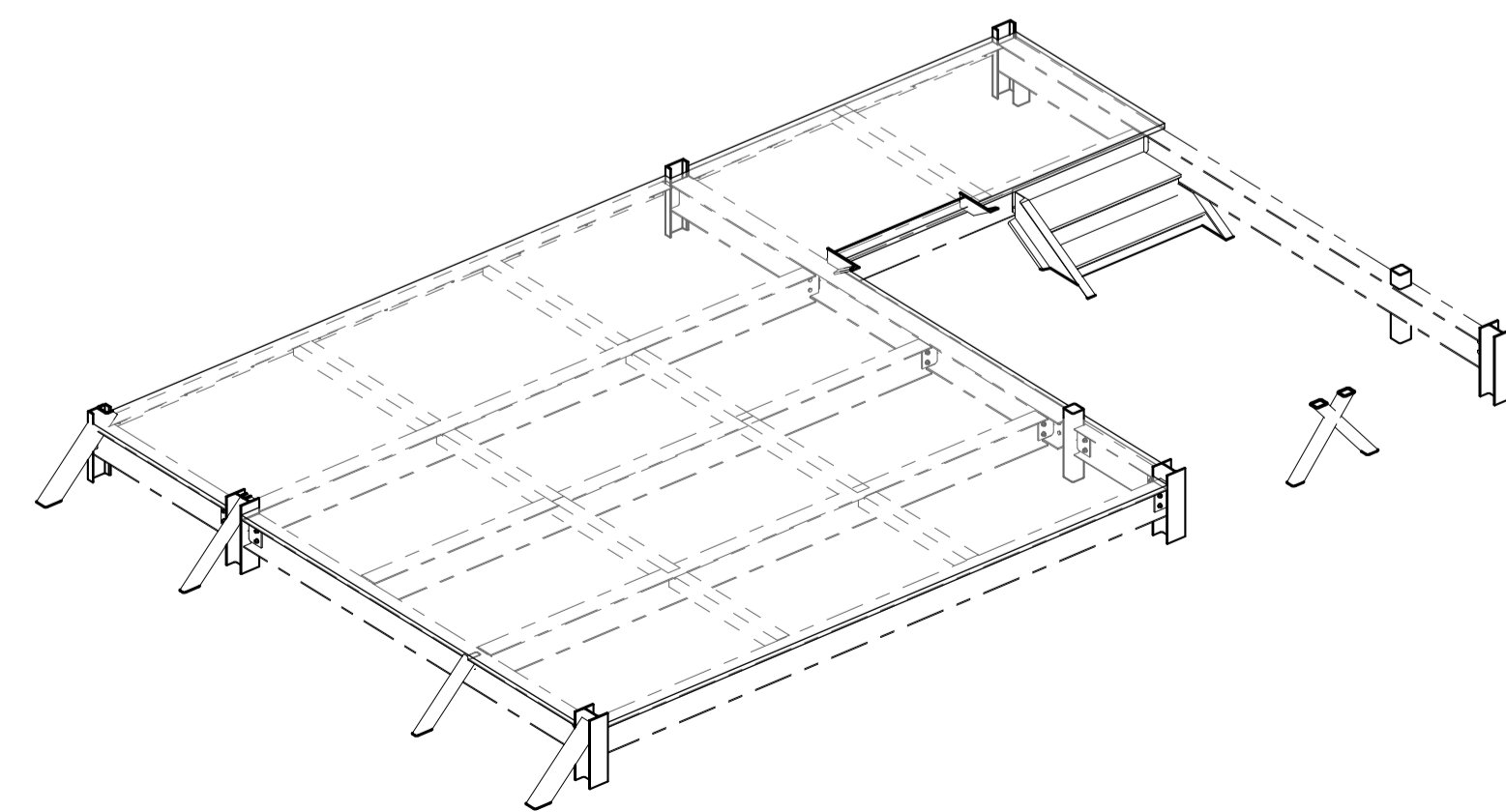
THIRD FLOOR  
FRAMING



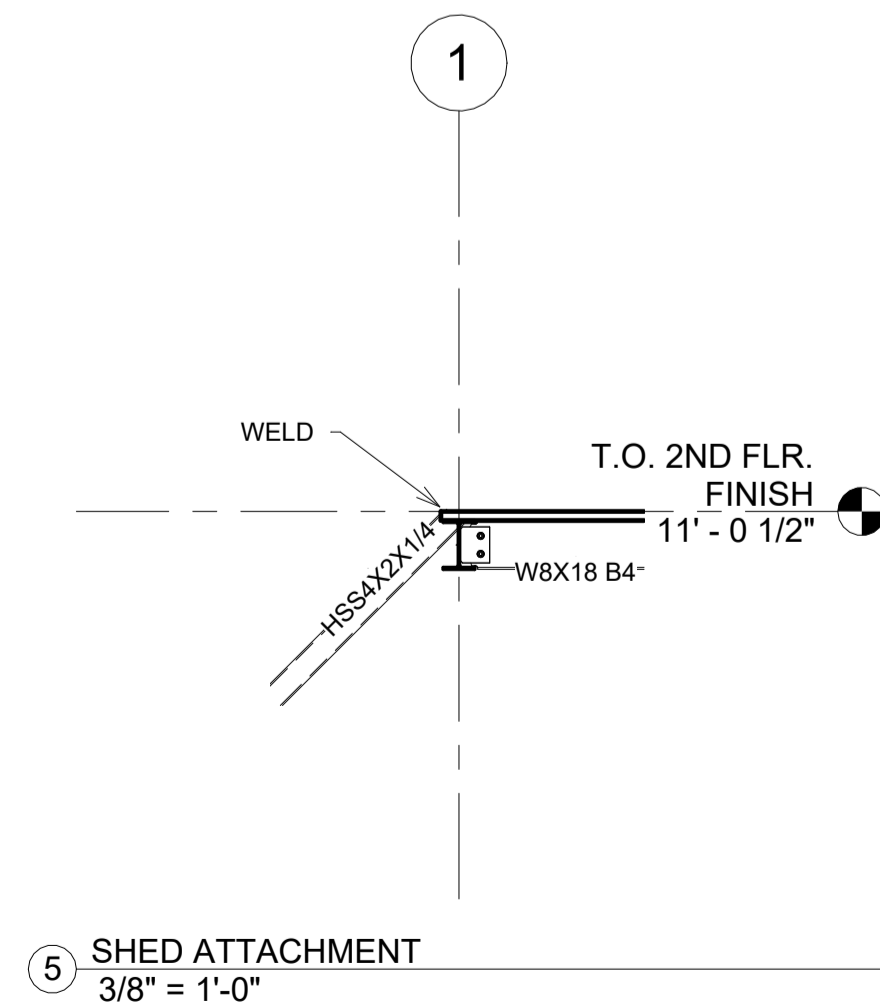
④ THIRD LEVEL



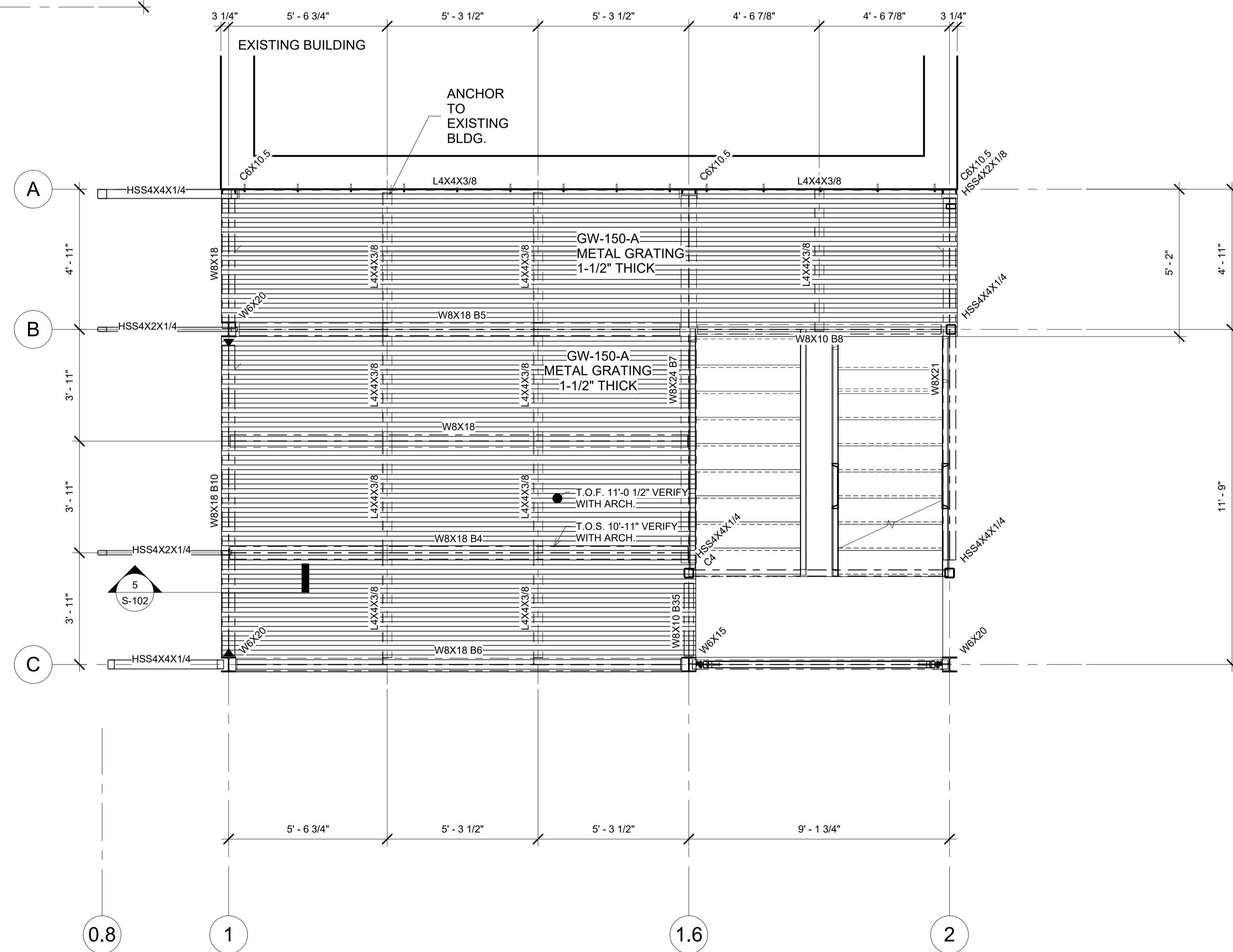
① T.O. 3RD FLR. FINISH  
3/8" = 1'-0"



③ SECOND LEVEL



⑤ SHED ATTACHMENT  
3/8" = 1'-0"



② T.O. 2ND FLR. FINISH  
3/8" = 1'-0"





REVISIONS:  
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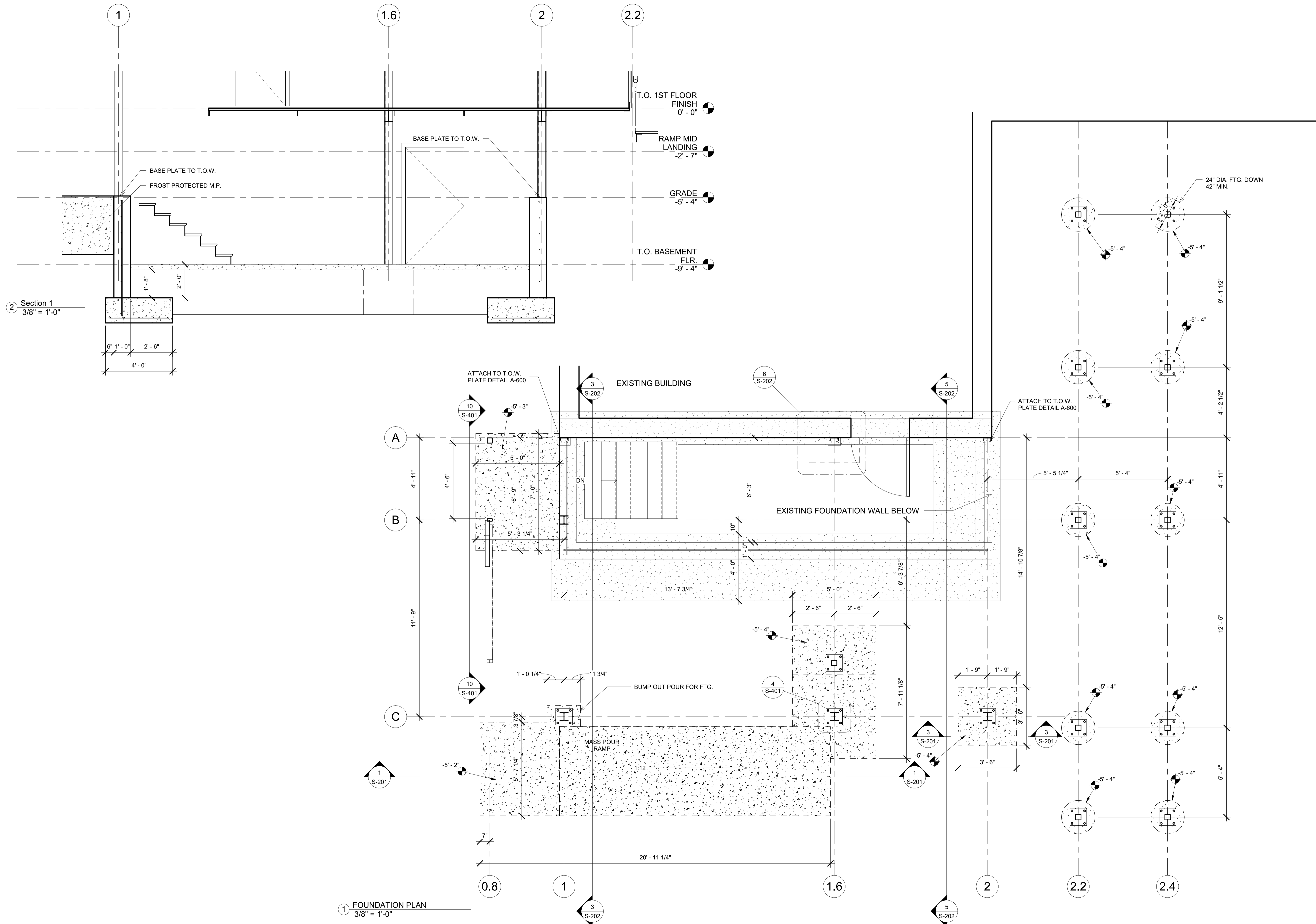
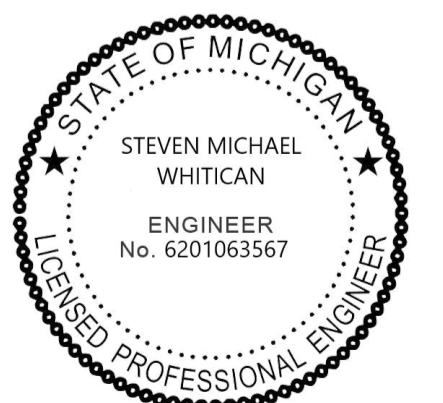
DATE

6/2/2023

SHEET NO.

S-104

FOUNDATION PLAN



1 FOUNDATION PLAN  
3/8" = 1'-0"

2 Section 1  
3/8" = 1'-0"

REVISIONS:  
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SCALE

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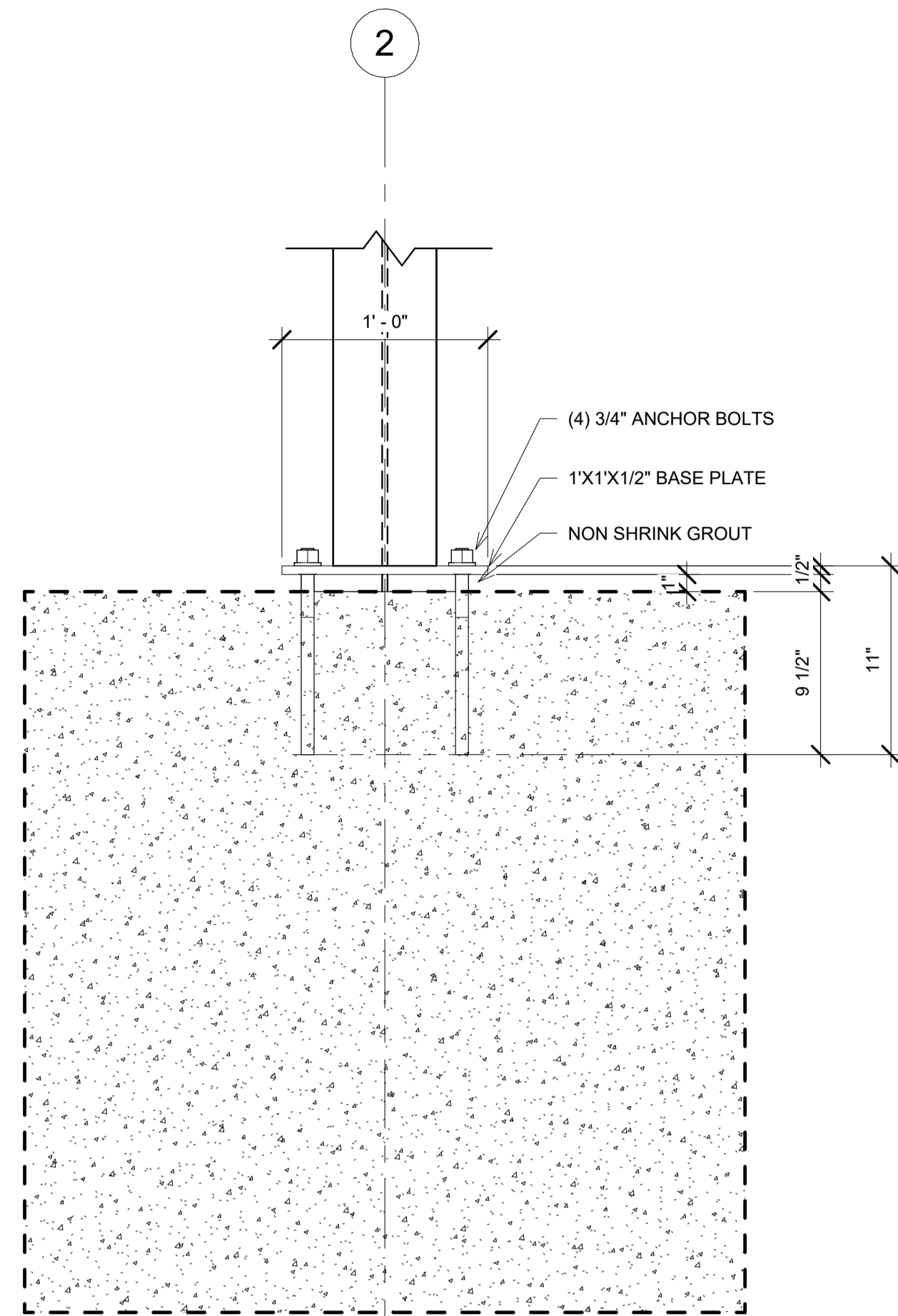
DATE

6/2/2023

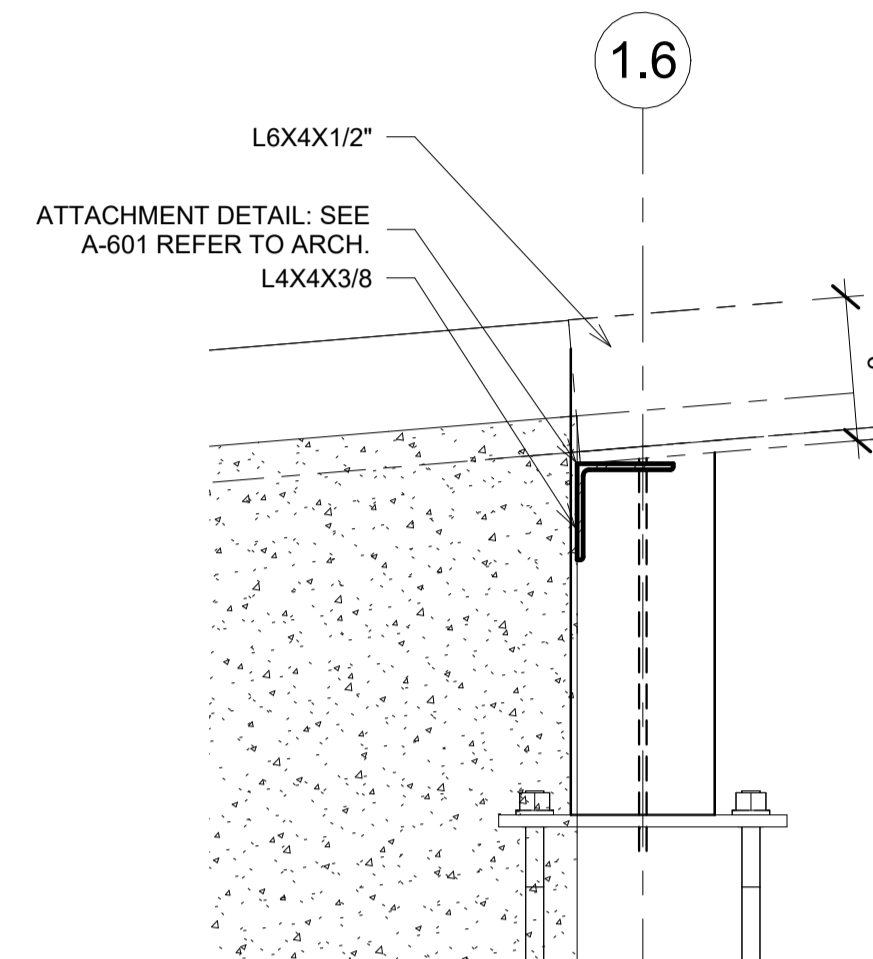
SHEET NO.

S-201

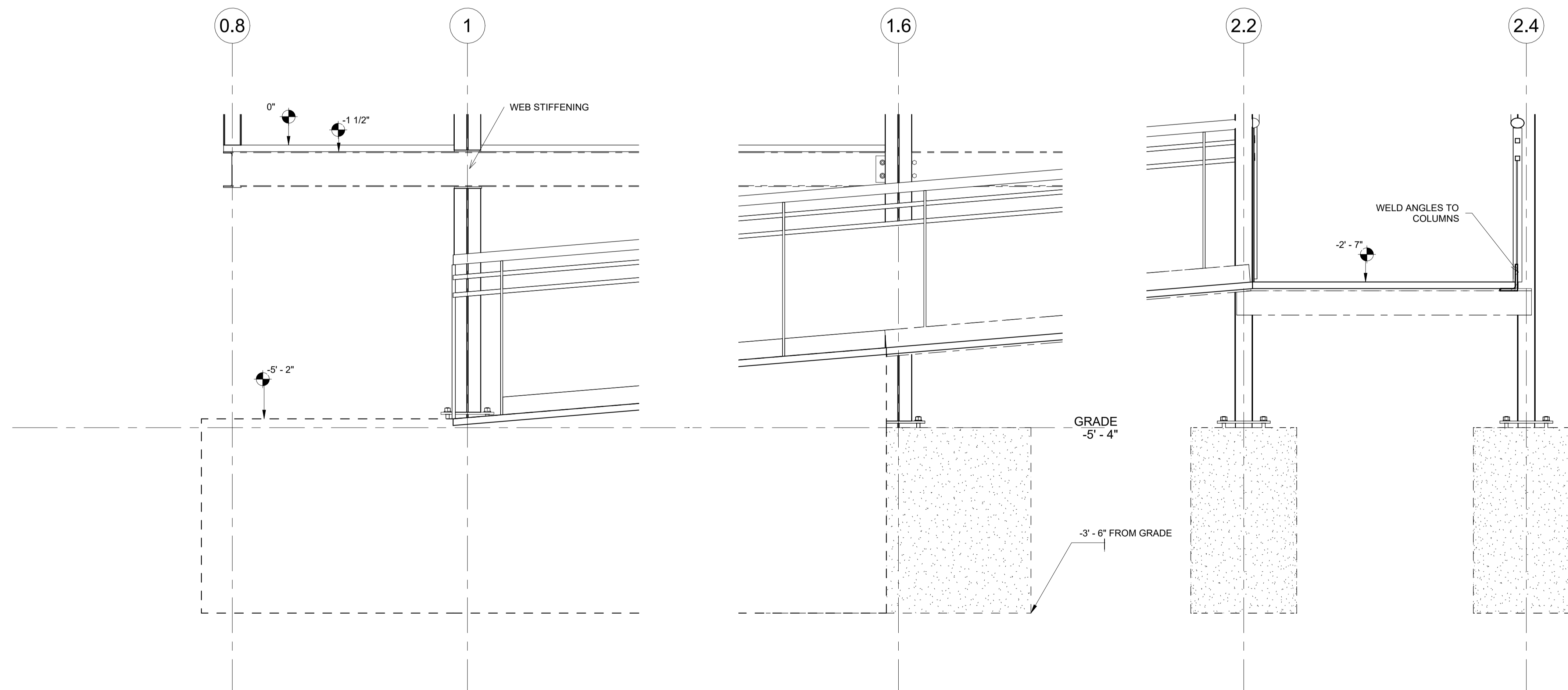
FOUNDATION  
SECTIONS & DETAILS

③ TYP COL. ATTACHMENT  
1 1/2" = 1'-0"



④ DETAIL @ RAMP EMBEDMENT  
1 1/2" = 1'-0"



① SECTION @ MASS POUR RAMP  
3/4" = 1'-0"



REVISIONS:  
CLIENT REVIEW: 7-25-2023  
CONSTRUCTION DOC.: 8-16-2023

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CUSTOMER DATA

2900 E. GRAND BLVD  
DETROIT, MI 48202

PROJECT NO:

SJW 2023 0167

DRAWN

J.NECELIS

CHECKED

S. WHITICAN PhD PE

APPROVED

SCALE

AS INDICATED

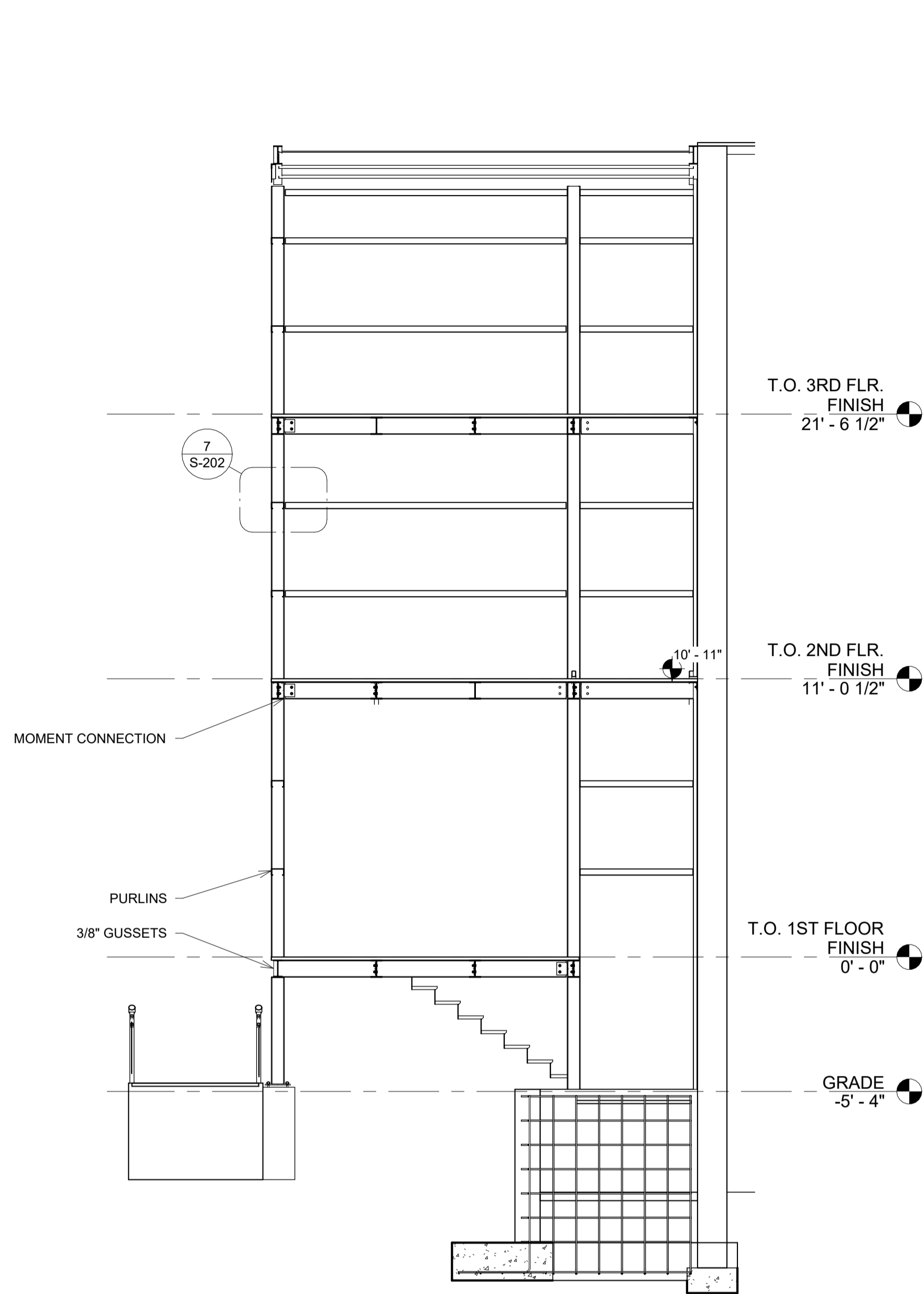
DATE

6/9/2023

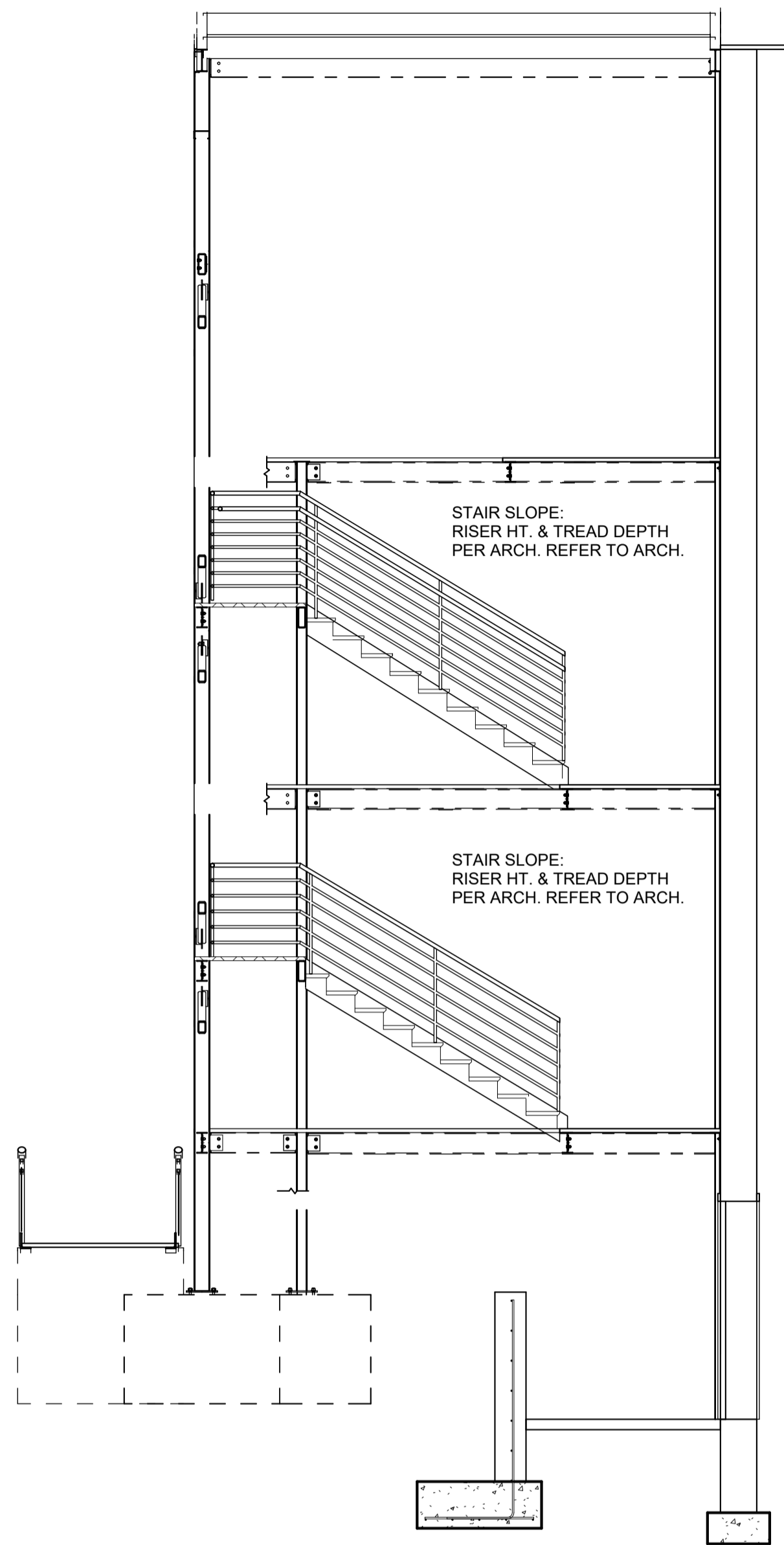
SHEET NO.

S-202

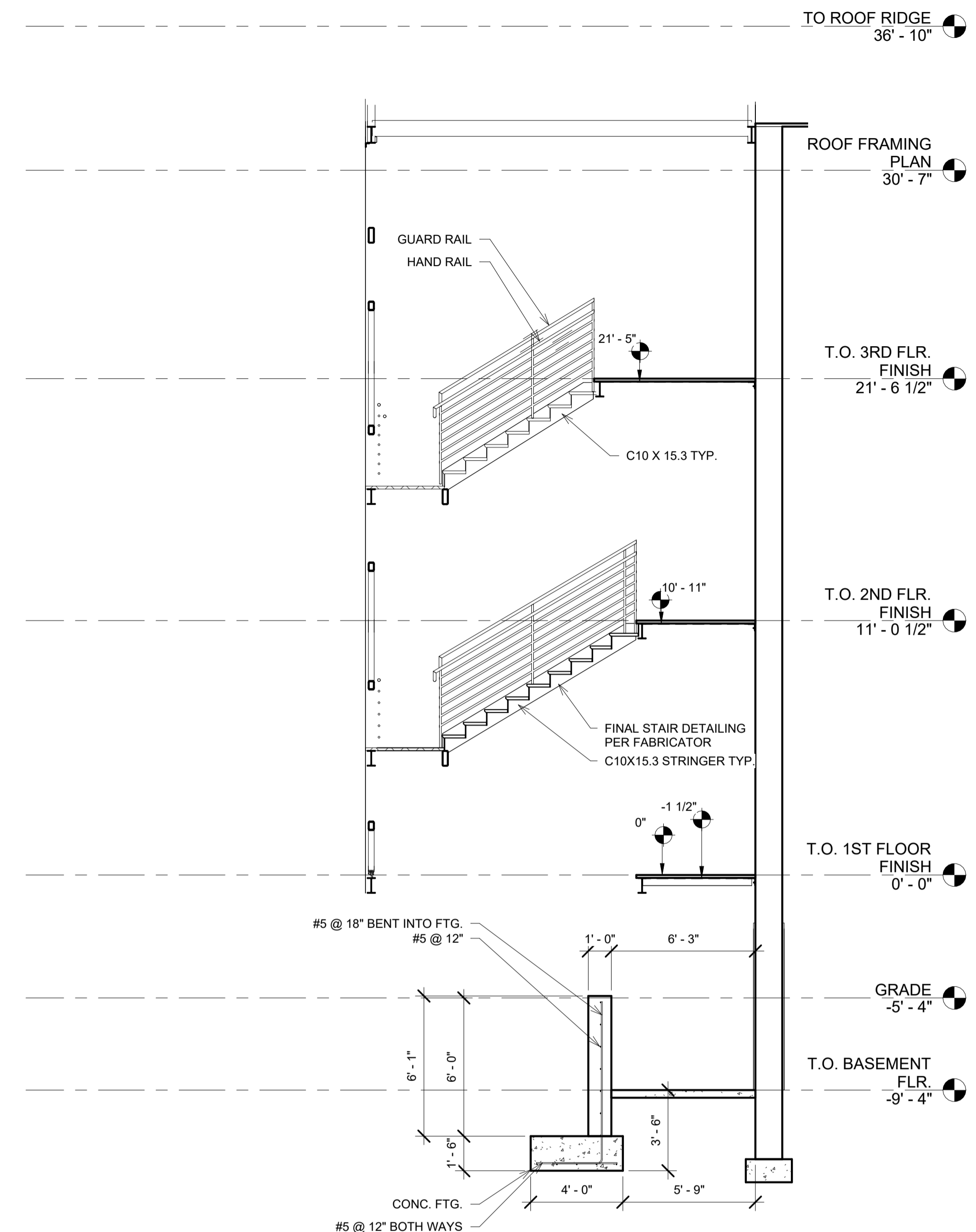
ADDITIONAL DETAILS

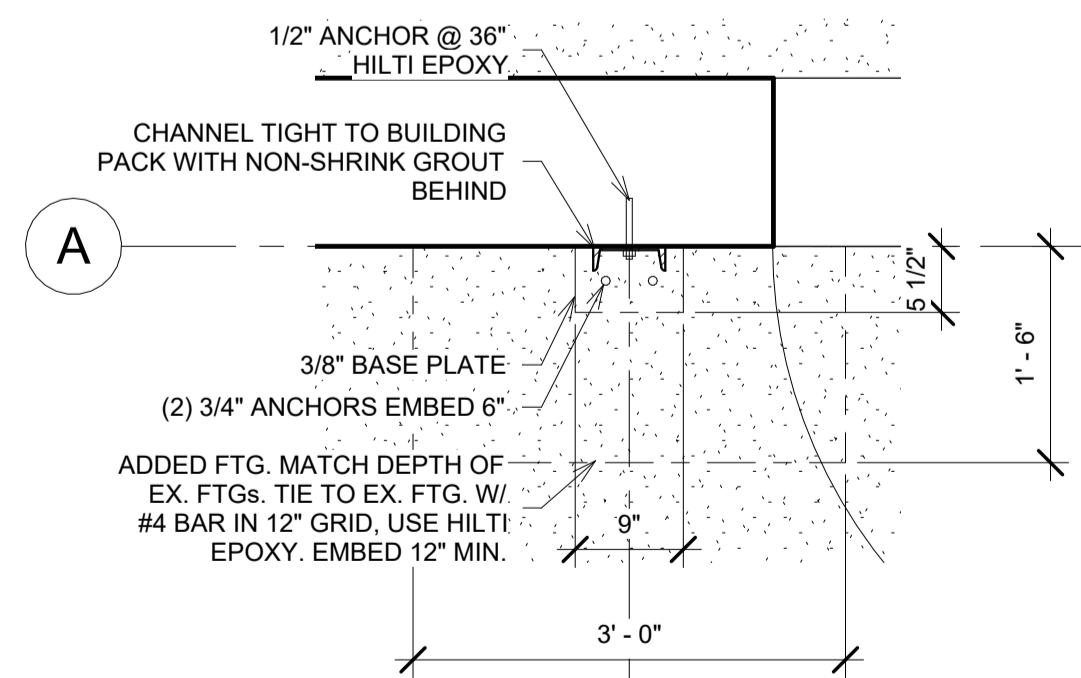
3 EXTERIOR WALL  
1/4" = 1'-0"



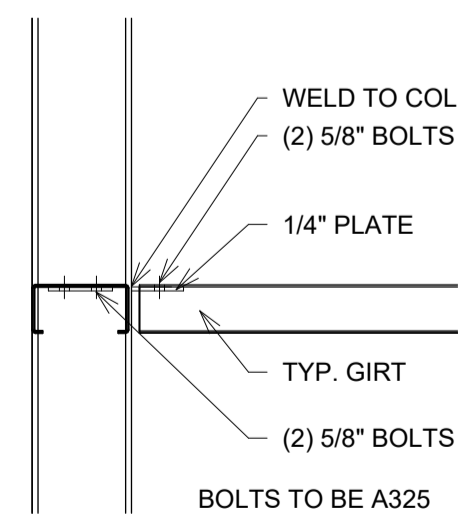
2 SECTION @ STAIR LANDING  
1/4" = 1'-0"



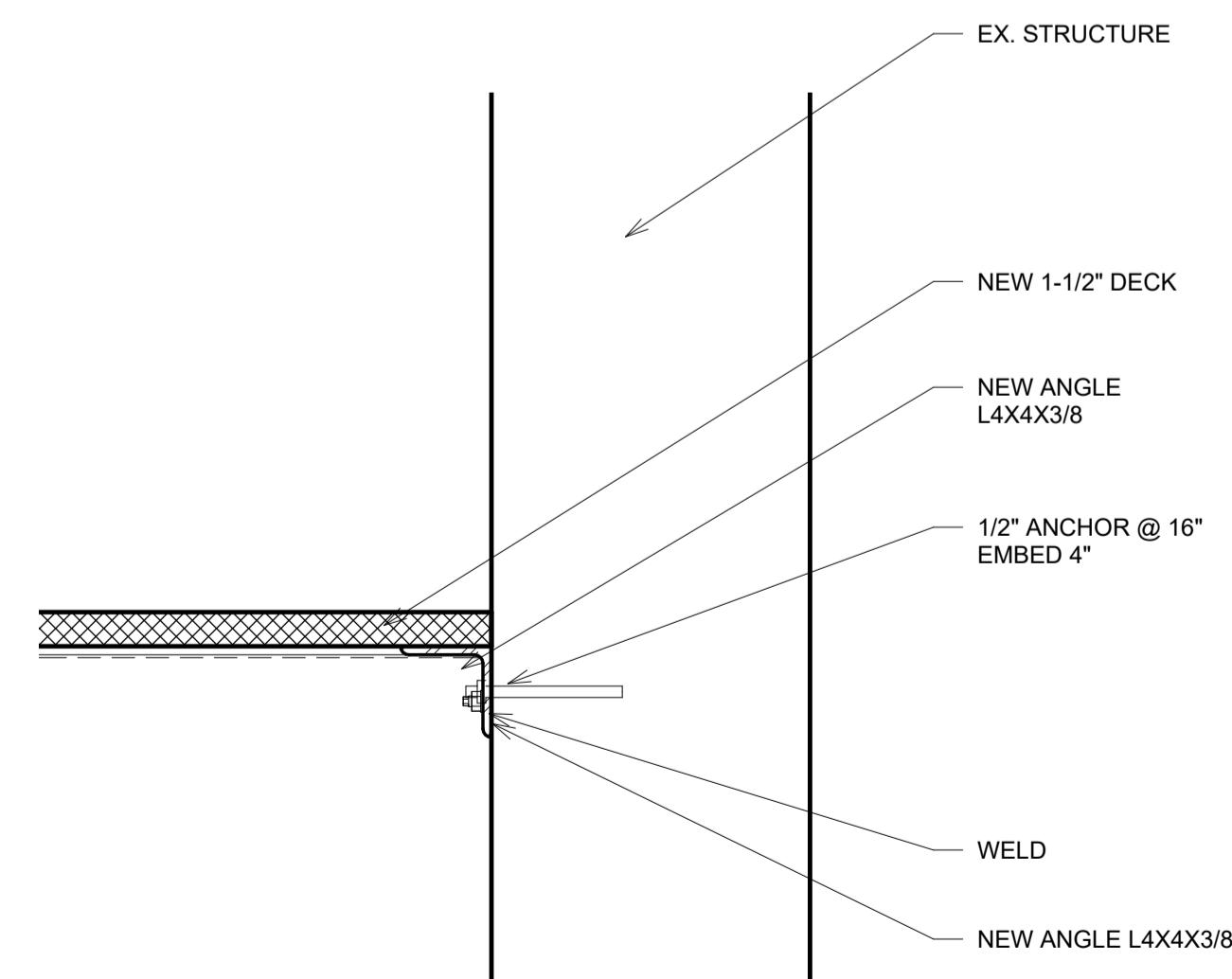
5 STAIR SECTION  
1/4" = 1'-0"



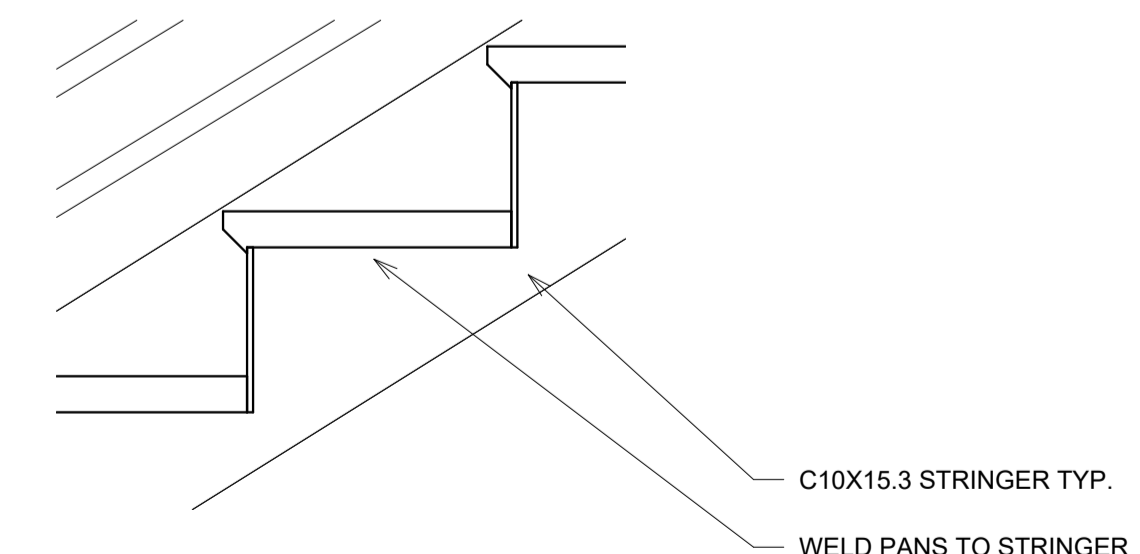
6 CHANNEL FOOTING MODIFICATION  
3/4" = 1'-0"



7 GIRT CONNECTION  
1" = 1'-0"



1 CONNECTION @ BUILDING  
1 1/2" = 1'-0"



4 STAIR DTL.  
1 1/2" = 1'-0"

REVISIONS:  
CLIENT REVIEW: 7-25-2023  
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PROJECT NO:

SJW 2023 0167

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SCALE

AS INDICATED

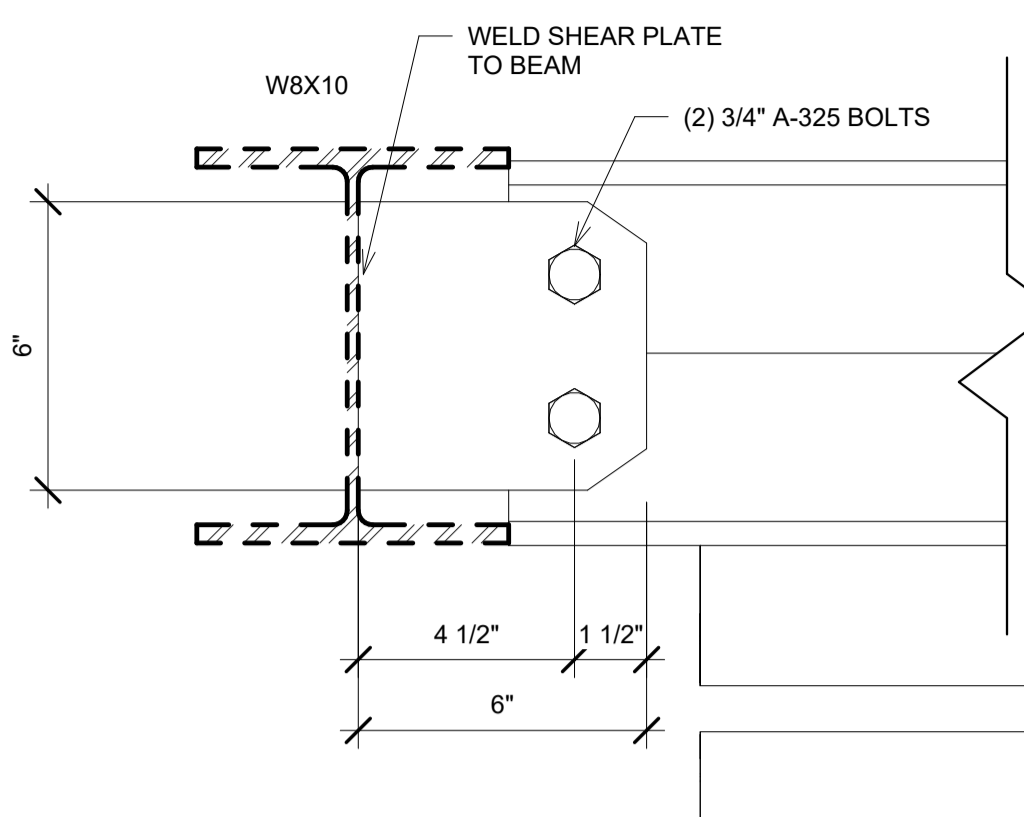
DATE

6/9/2023

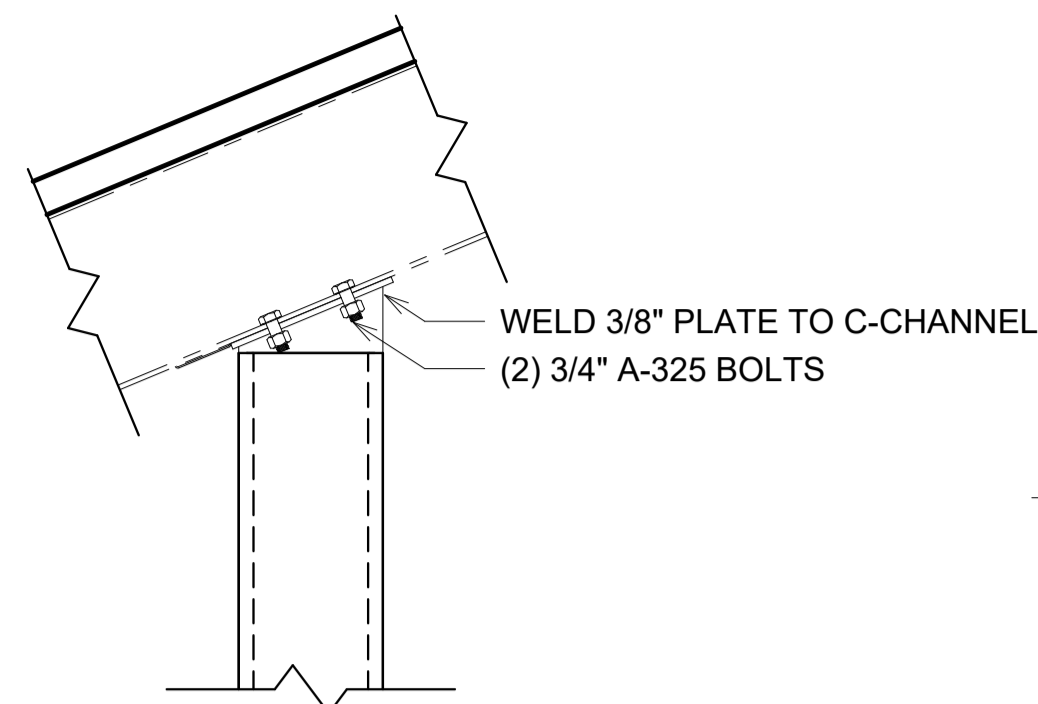
SHEET NO.

S-401

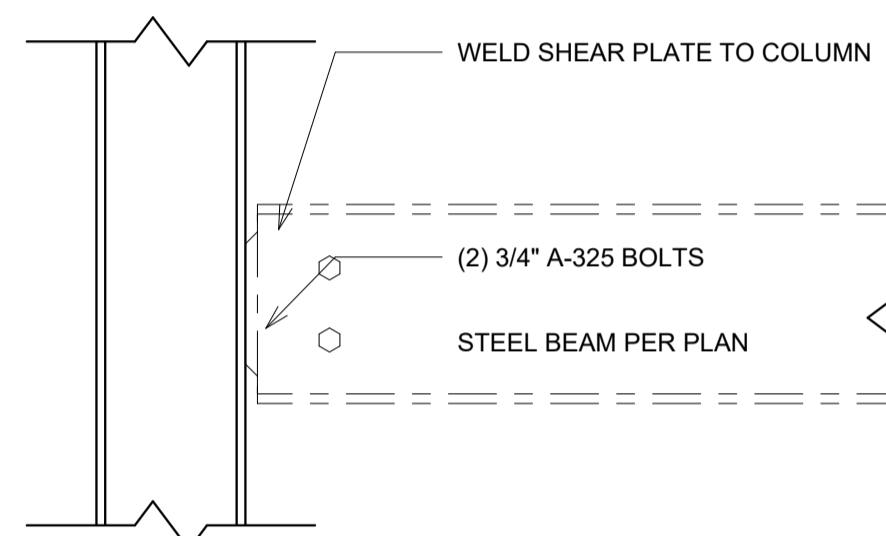
ADDITIONAL DETAILS



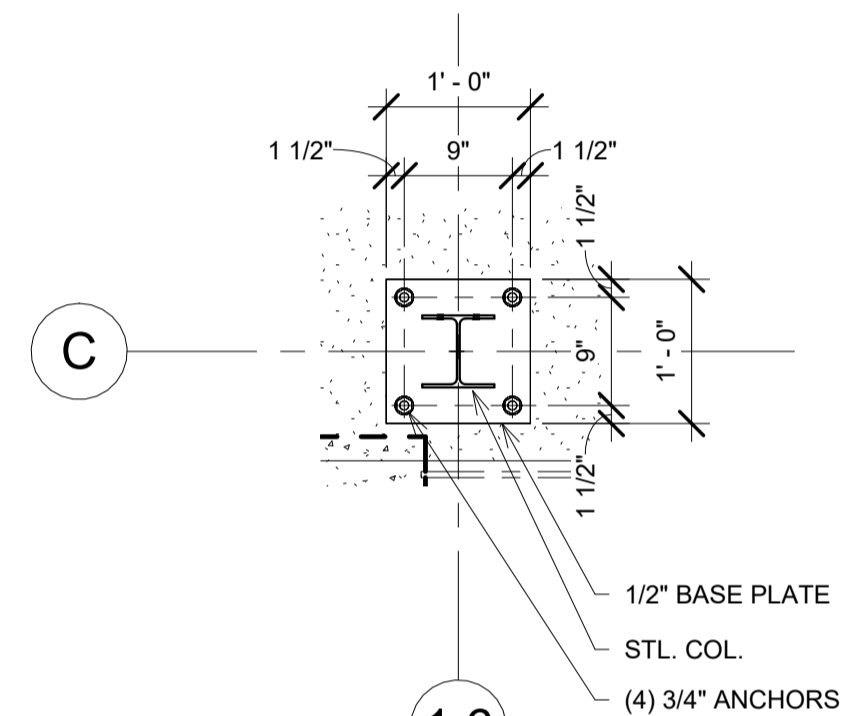
1 Z-PURLIN TO BEAM CONNECTION  
3\"/>



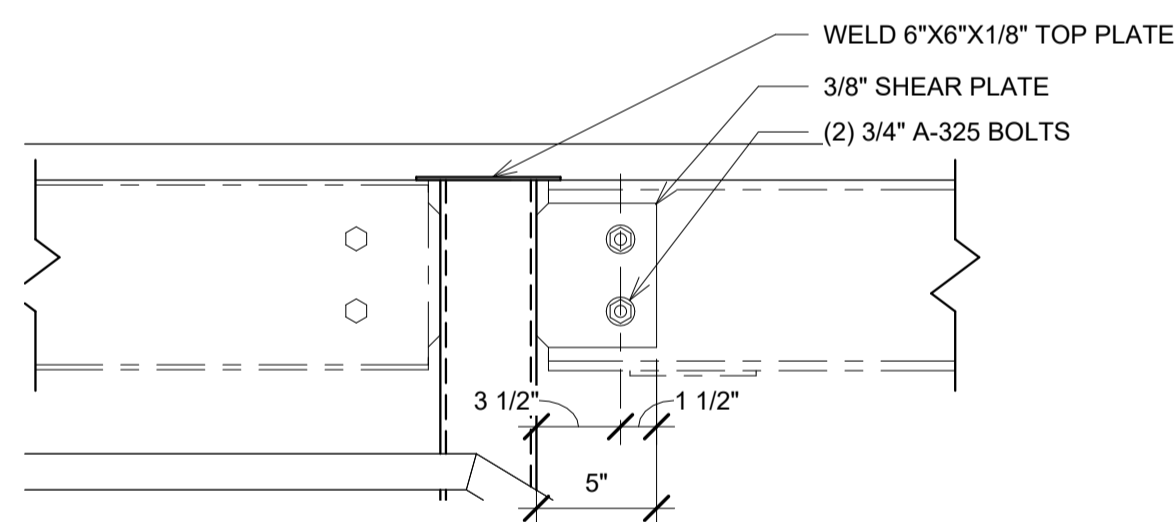
2 C-CHANNEL TO BEAM CONNECTION  
1 1/2\"/>



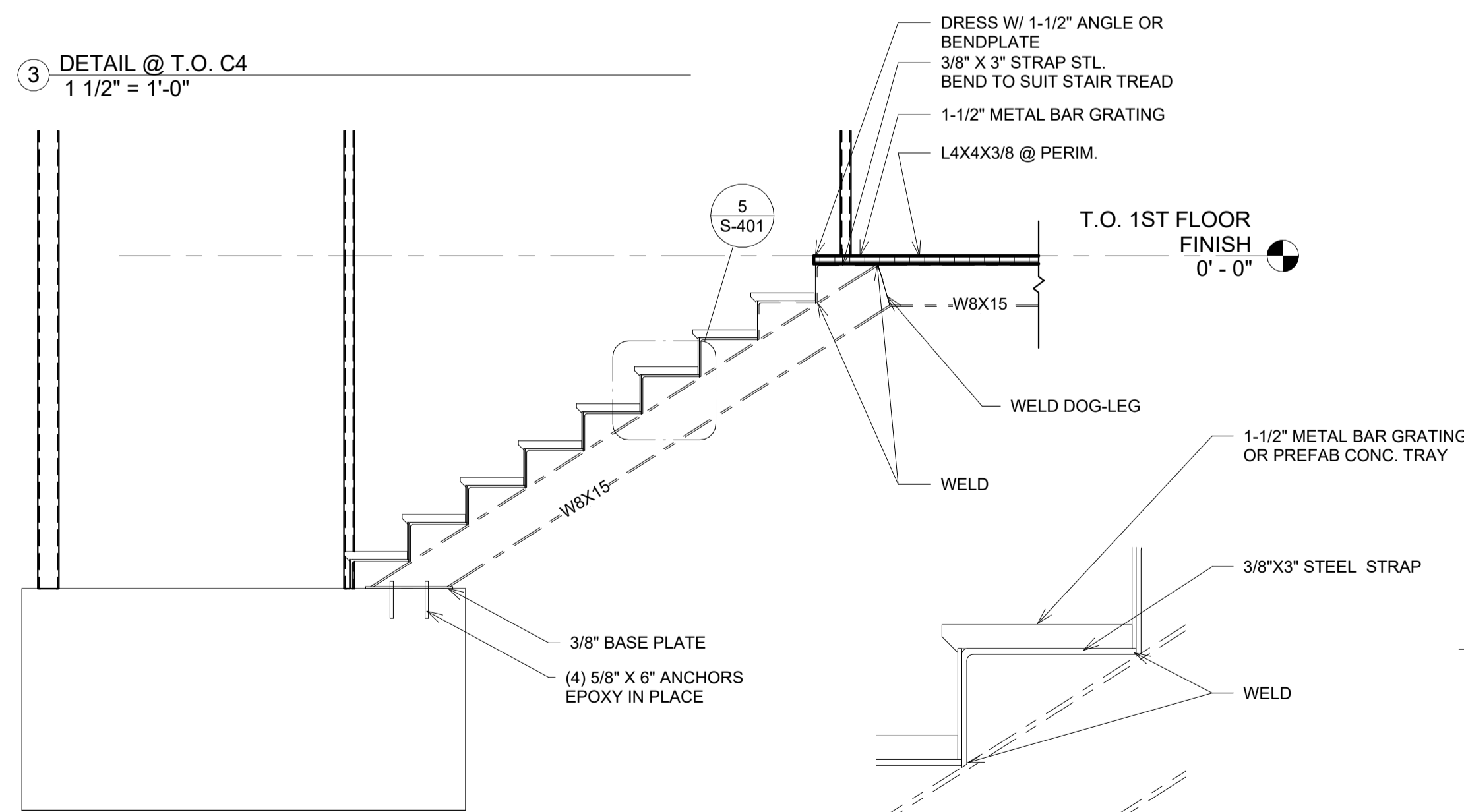
6 SHEAR PLATE AT COLUMN (WEB CONNECTION)  
1 1/2\"/>



4 BASE PLATE DESIGN  
3/4\"/>

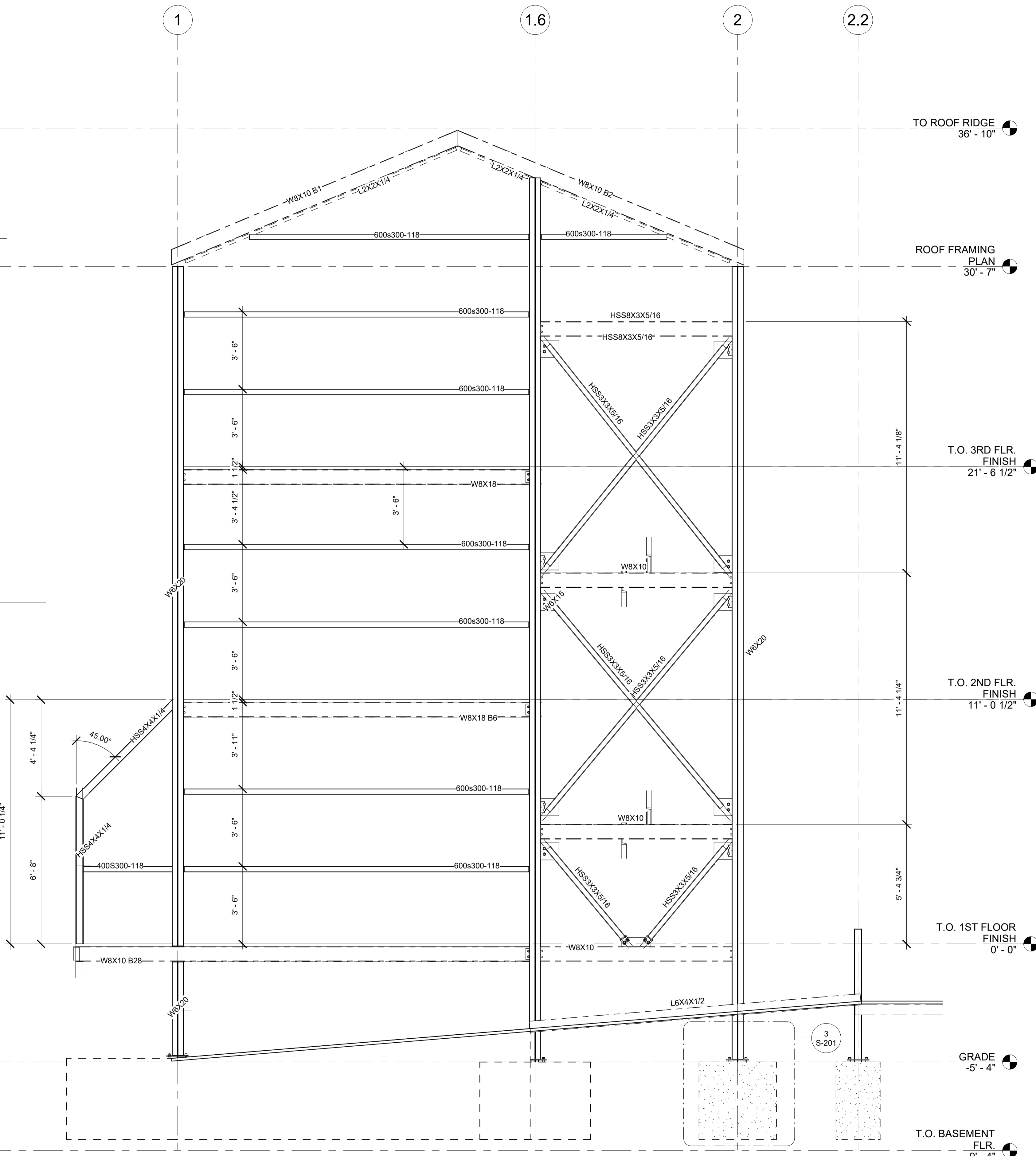


3 DETAIL @ T.O. C4  
1 1/2\"/>



5 DETAIL @ CANTALIEVER STAIR  
1 1/2\"/>

10 SECTION @ CANTALIEVER STAIR  
1/2\"/>



7 SECTION @ STAIRTOWER  
3/8\"/>