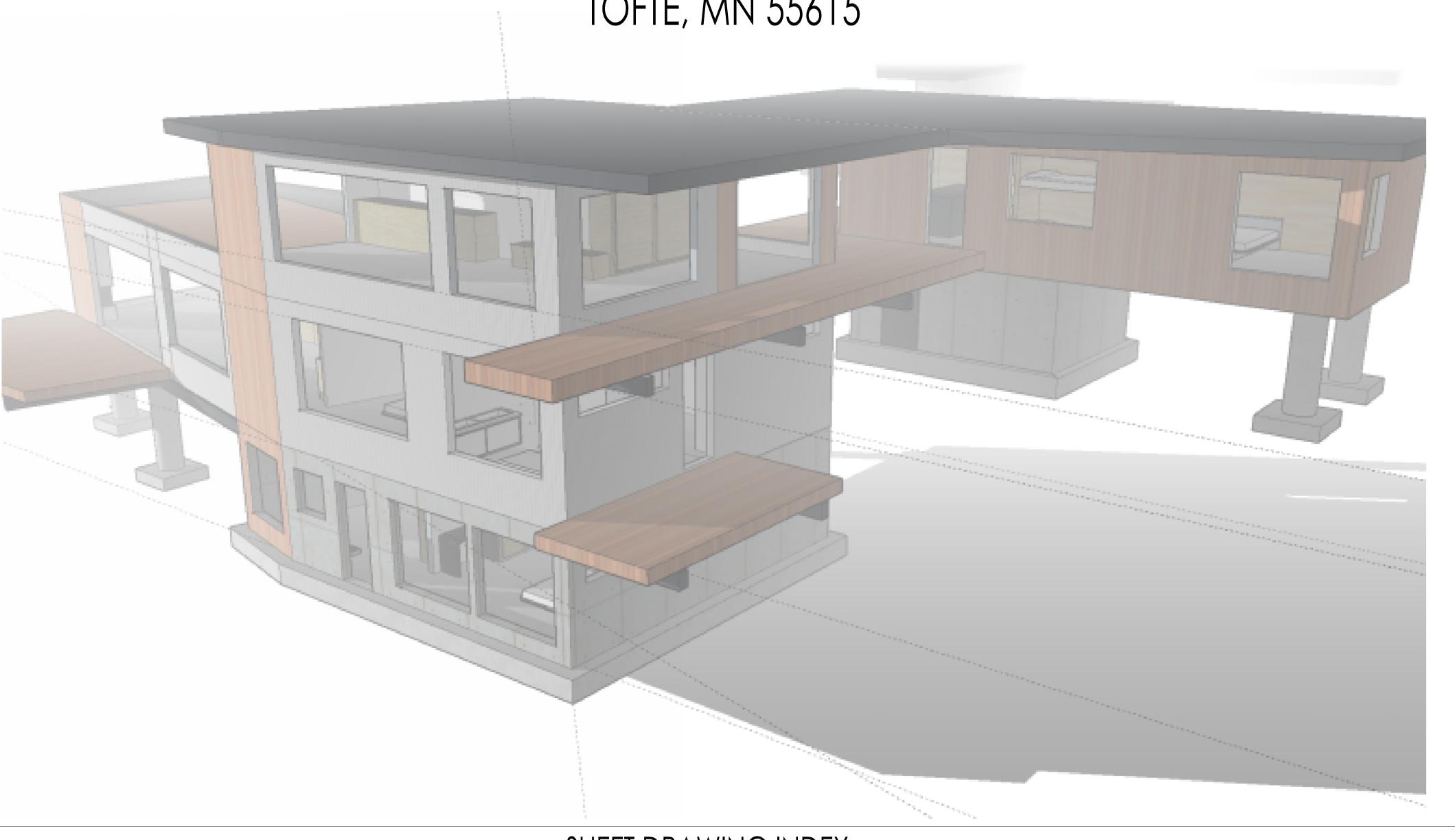
# MAHON / MORTRUDE

7106 W. HWY 61

TOFTE, MN 55615





| DRAWN BY: KYLE REVIEWED BY: CAMERON  | 1           | ISSUED FINAL PLANS              | 5/30/2019 |
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| REVIEWED BY:  CAMERON  DATE:  5/17/20  THIS DOCUMENT IS THE PROPERTY OF MORTARLESS SYSTEMS ENGINEERING, INC. AND MAY NOT BE USED, COPIED OR            | PROJECT NU  | MBER:                           | \$19-004  |
| DATE: 5/17/20  THIS DOCUMENT IS THE PROPERTY OF MORTARLESS SYSTEMS ENGINEERING, INC. AND MAY NOT BE USED, COPIED OR                                    | DRAWN BY:   |                                 | KYLE E    |
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| ENGINEERING, INC. AND MAY NOT BE USED, COPIED OR   | DATE:       |                                 | 5/17/201  |
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PROJECT NAME:

MAHON /

## MORTRUDE

TITLE SHEET

### SHEET DRAWING INDEX

| D0   | TITLE SHEET             | SO    | PROJECT SPECIFICATIONS    | \$1.4 | THIRD FLOOR FRAMING PLAN |
|------|-------------------------|-------|---------------------------|-------|--------------------------|
| D1.0 | FIRST LEVEL FLOOR PLAN  | SO.1  | PROJECT SCHEDULES         | \$1.5 | THIRD LEVEL FRAMING PLAN |
| D1.1 | SECOND LEVEL FLOOR PLAN | \$1.0 | FOUNDATION PLAN           | \$1.6 | ROOF FRAMING PLAN        |
| D1.2 | THIRD LEVEL FLOOR PLAN  | \$1.1 | FIRST LEVEL FRAMING PLAN  | \$2.0 | BUILDING CROSS SECTIONS  |
| D1.3 | ROOF PLAN               | \$1.2 | SECOND FLOOR FRAMING PLAN | \$2.1 | BUILDING CROSS SECTIONS  |
|      |                         | \$1.3 | SECOND LEVEL FRAMING PLAN | \$3.0 | BUILDING DETAILS         |



| 1           | ISSUED FINAL PLANS  | 5/30/2019   |
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| PROJECT NU  | l<br>MBER:  | \$19-004    |
| DRAWN BY:   |   | KYLE B      |
| REVIEWED BY | /·  | CAMERON R   |
| DATE:       |   | 5/17/2019   |
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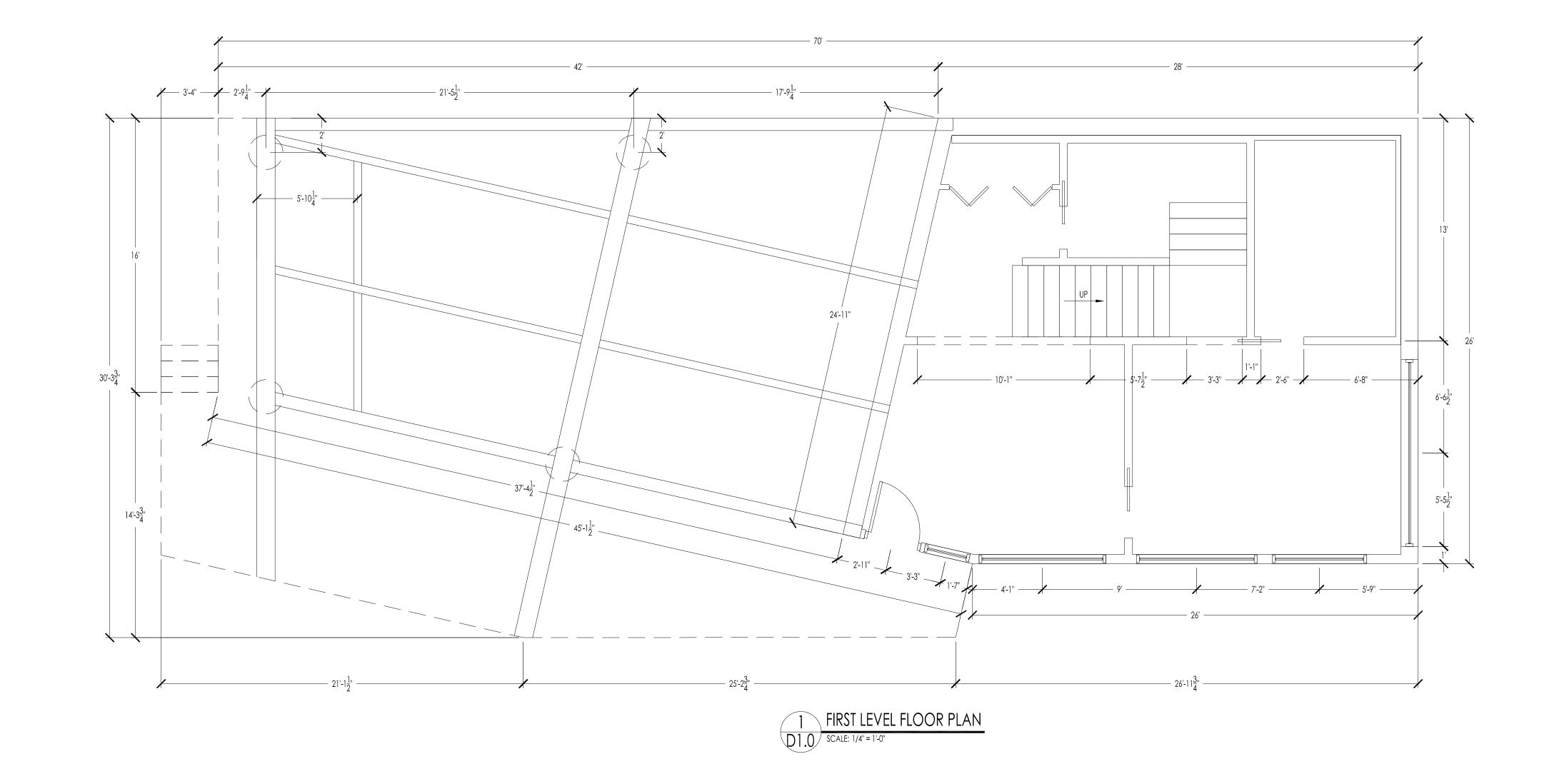
## MAHON / MORTRUDE

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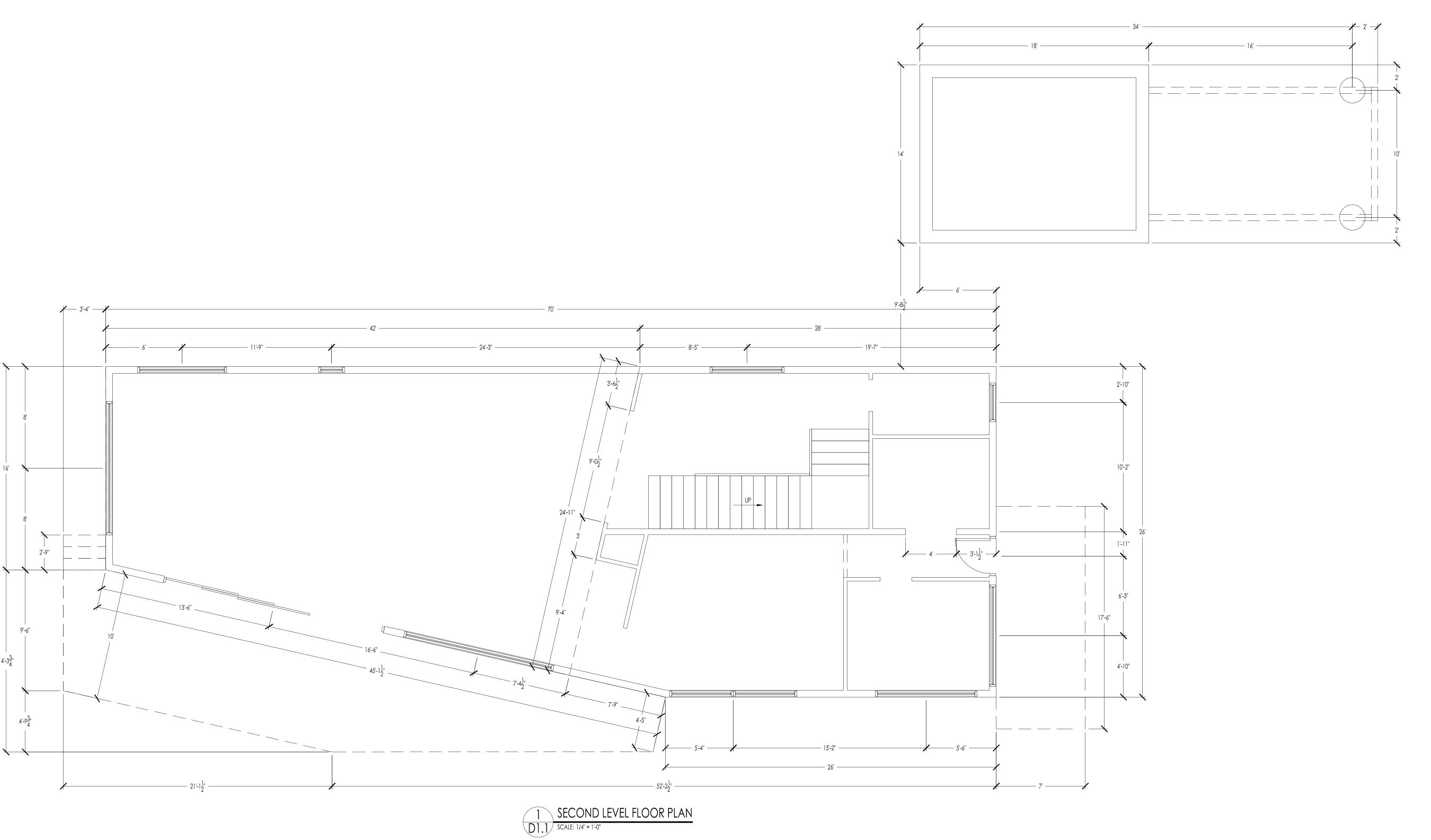
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FIRST LEVEL FLOOR PLAN

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| REV. NO.    | REVISION           | DATE      |
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| DRAWN BY:   |                    | KYLE      |
| REVIEWED BY | ··                 | CAMERON   |

DATE: 5/17/2019

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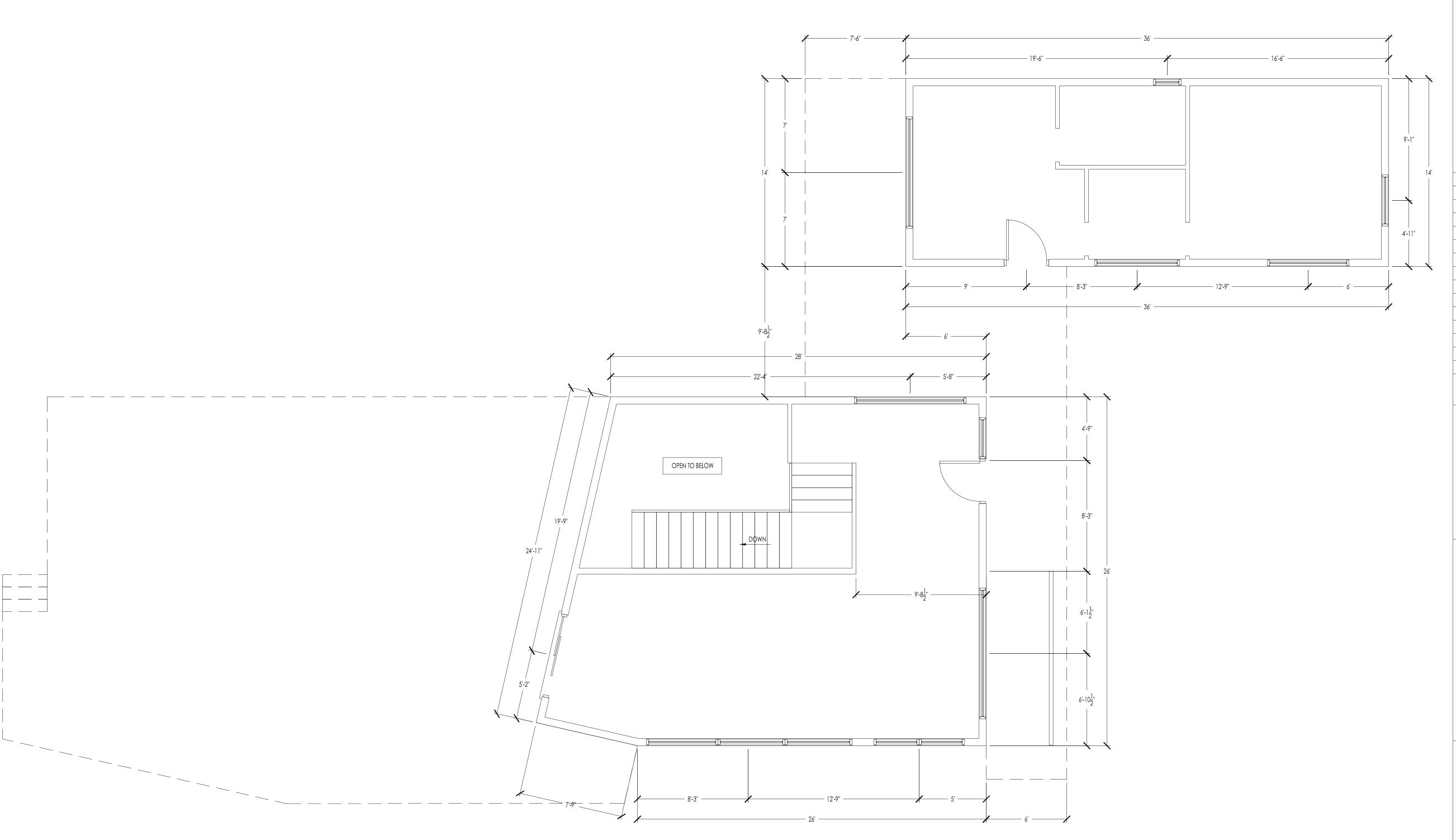
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SECOND LEVEL FLOOR PLAN

SHEET NUMBER:





1 THIRD LEVEL FLOOR PLAN
D1.2 SCALE: 1/4" = 1'-0"

REV. NO. REVISION DATE

1 ISSUED FINAL PLANS 5/30/2019

PROJECT NUMBER: S19-0041

DRAWN BY: KYLE B.

REVIEWED BY:

CAMERON R.

DATE:

5/17/2019

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PROJECT NAME:

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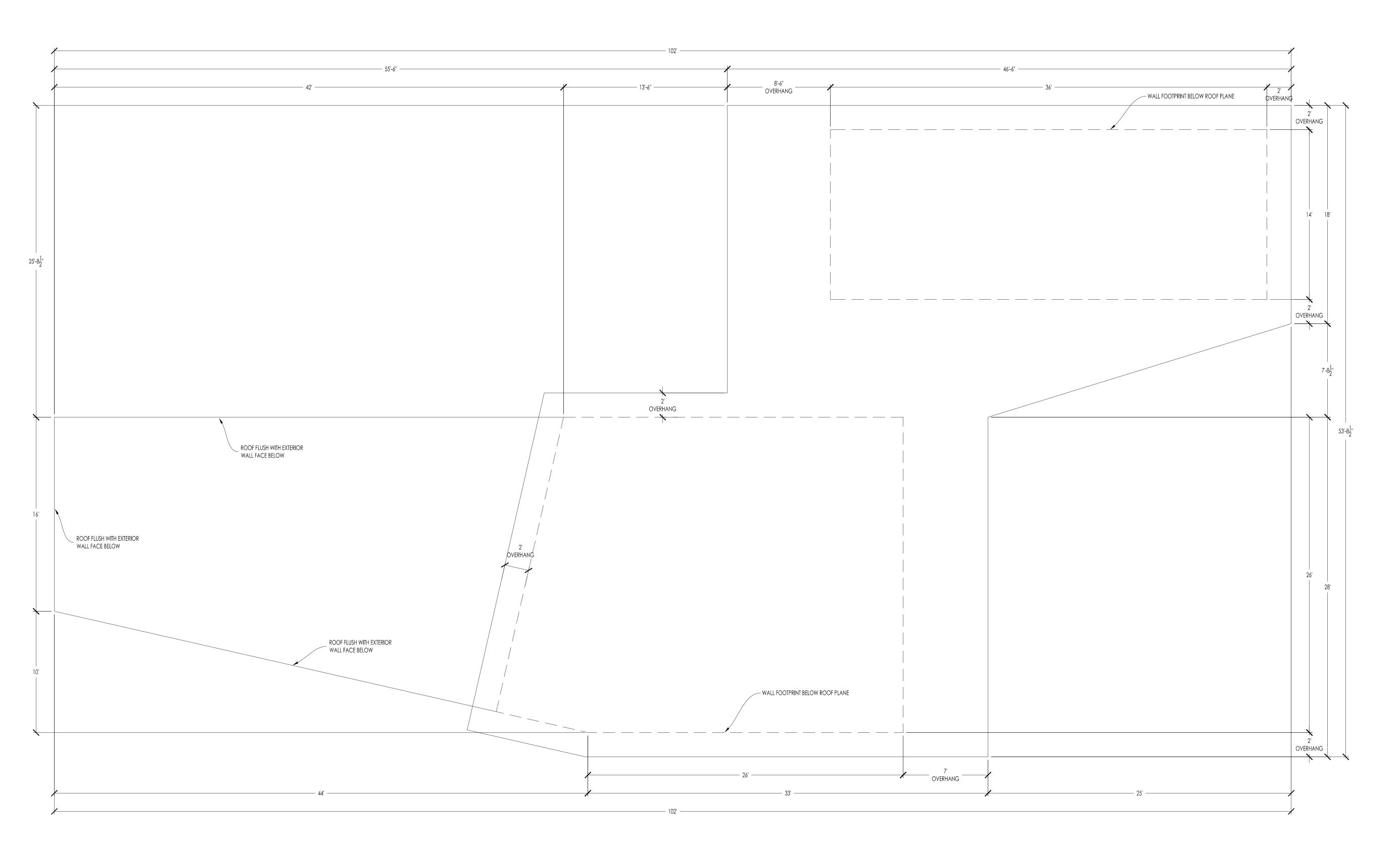
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SHEET NUMBER:

FIRST LEVEL

FLOOR PLAN

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1 ROOF PLAN
D1.3 SCALE: 1/4" = 1'-0"

| REV. NO.    | REVISION           | DATE    |
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| 1           | ISSUED FINAL PLANS | 5/30/20 |
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| DRAWN BY:   |                    | KY      |
| REVIEWED BY |                    | CAMERO  |

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PROJECT NAME:

MAHON / MORTRUDE

MINNESOTA

TOFTE
SHEET NUMBER:

**ROOF PLAN** 

SHEET NUMBER:

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INTERNATIONAL BUILDING CODE 2015 EDITION WITH STATE OF MN AMENDMENTS (IBC 2015)
                AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARDS 7 2010 EDITION (ASCE7-10)
                AMERICAN CONCRETE INSTITUTE 318-14 (ACI)
               NATIONAL DESIGN SPECIFICATION FOR WOOD DESIGN 2015 (NDS)
  1.2. LOADS
               LATERAL LOAD
      1.2.1.1.
                      WIND LOAD
                            NOMINAL WIND SPEED: V_{ASD} = 89 \text{ MPH } (3 \text{ SECOND GUSTS})
                            ULTIMATE WIND SPEED: V<sub>ULT</sub> = 115 MPH (3 SECOND WIND GUSTS)
                             WIND EXPOSURE: D
                            RISK CATEGORY: II
                            IMPORTANCE FACTOR: I_W = 1.0
      1.2.1.2.
                   SEISMIC LOAD
                            IMPORTANCE FACTOR = I_E = 1.0
                            SEISMIC DESIGN CATEGORY = II
                            SPECTRAL RESPONSE: S_S = 0.042, S_1 = 0.016
                            SPECTRAL RESPONSE COEFF: SD_S = 0.045, SD_1 = 0.025
                            SITE CLASS: B
    1.2.2.
              LIVE LOAD
                     ROOF CONSTRUCTION LOAD: 20 PSF
      1.2.2.2.
                      FLOOR LOAD: 40 PSF
               SNOW LOAD
      1.2.3.1.
                    BALANCED LOAD
                            GROUND SNOW LOAD: P_a = 60 PSF
                            IMPORTANCE FACTOR: I_s = 1.0
                            EXPOSURE FACTOR: C<sub>e</sub> = 0.9
                             THERMAL FACTOR: C_t = 1.0
                            SLOPE FACTOR: C_s = 1.0
                            ROOF SNOW LOAD: P_f = 39 PSF
                    UNBALANCED SNOW LOAD
                             ***SEE ROOF LOADING PLAN IF APPLICABLE***
    1.2.4. DEAD LOAD
                    ROOF LOAD
                            TOP CHORD: 10 PSF
                            BOTTOM CHORD: 10 PSF (INTERIOR) & 5 PSF (EXTERIOR)
                             LL DEFLECTION LIMITS = L/240
                            TL DEFLECTION LIMITS = L/360
      1.3.4.2.
                    FLOOR LOAD
                             TOP CHORD: 23 PSF (INTERIOR) & 10 PSF (EXTERIOR)
                             BOTTOM CHORD: 10 PSF (INTERIOR) & 5 PSF (EXTERIOR)
                            LL DEFLECTION LIMITS = L/240
                            TL DEFLECTION LIMITS = L/480
2. GENERAL CONSTRUCTION
           PRIOR TO STARTING WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
```

1. <u>DESIGN CRITERIA</u>

1.1. CODES & MANUALS

- 2.1. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS, SITE ELEVATIONS, DIMENSIONS AND CONDITIONS
- 2.2. REFERENCE STANDARDS, UNLESS NOTED OTHERWISE (U.N.O.), SHALL BE THE CURRENT EDITION, IF APPLICABLE.
- 2.3. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.
- 2.4. TEMPORARY BRACING, SHORING AND DEWATERING TO BE THE RESPONSIBILITY OF CONTRACTOR.
- 2.5. NO PENETRATIONS TO BE PLACED WITHIN STRUCTURAL MEMBERS PRIOR TO APPROVAL OF THE STRUCTURAL ENGINEER.
- THE STRUCTURE SHALL NOT BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN
- CANTILEVER BEAMS WILL CREEP OVER TIME. IT IS LIKELY THAT MAXIMUM DEFLECTION LIMITS WILL BE REACHED. AS
- SUCH, AESTHETIC STRAINS WILL LIKELY BE DEMONSTRATED.

### SHOP DRAWINGS

- 3.1. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
- PRIOR TO SUBMITTAL, CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE SHOP DRAWINGS PRIOR TO SUBMITTING THE THE ENGINEER.
- 3.3. THE ENGINEER'S REVIEW OF SHOP DRAWINGS ARE FOR GENERAL CONFORMANCE OF THE DESIGN CONCEPT.
- SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAIL SCHEDULES, PROCEDURES AND DIAGRAMS FOR THE FABRICATION AND ASSEMBLY OF STRUCTURAL MEMBERS.
- 3.5. ERECTION PLANS ARE THE RESPONSIBILITY OF THE FABRICATOR.

### 4. <u>FOUNDATIONS</u>

- 4.1. ALLOWABLE BEARING CAPACITY:
- BEARING VALUE TO BE VERIFIED BY GEOTECHNICAL ENGINEER (SITE OBSERVED BY MSE ON 5/20/2019).
- 4.2. FOOTINGS AND FOUNDATION SHALL NOT BE EARTH FORMED.
- FOOTING AND FOUNDATION EXCAVATIONS SHALL BE FREE OF DELETERIOUS MATERIAL AND WATER PRIOR TO PLACING CONCRETE.
- 4.4. BACKFILL SHALL BE COMPACTED BY MECHANICAL MEANS.
- 4.5. BACKFILL AND COMPACTION SHALL BE INSPECTED AND CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER. REPORTS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD. IF AN INSPECTION AND REPORT IS NOT COMPLETED, CONTRACTOR / OWNER SHALL TAKE FULL RESPONSIBILITY TO ENSURE PROPER BACKFILL COMPACTION.
- BACKFILL SHALL BE PLACED IN ALTERNATING LIFTS ON EACH SIDE OF THE FOUNDATION WALLS TO MAINTAIN STABILITY OF FOUNDATION WALLS.
- PROTECT FOUNDATIONS EXCAVATIONS FROM FROST. DO NOT PLACE CONCRETE ON FROZEN GROUND.
- 4.8. MINIMUM OF 8" COMPACTED GRANULAR SUBGRADE BELOW SLABS.

### 5. <u>CONCRETE</u>

- 5.1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) CODES AND SPECIFICATIONS, LATEST EDITION.
- 5.2. CONCRETE COVER FOR STEEL REINFORCEMENT SHALL BE AS SHOWN ON THE DRAWINGS. COVER DISTANCES NOT
- 5.3. ALL VERTICAL BARS MUST BE EXTENDED TO WITHIN 3" OF THE TOP AND BOTTOM OF THE FOUNDATION WALLS, U.N.O.
- REINFORCING STEEL LAP SPLICE OF HORIZONTAL BARS WITHIN FOUNDATION WALLS AND FOOTINGS SHALL BE 53 x DIA BAR (IN TENSION) AND 30 x DIA BAR (IN COMPRESSION).
- 5.5. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI301 (LATEST EDITION).
- ALL CONCRETE REINFORCEMENT STEEL SHALL MEET ASTM SPECIFICATION A615, GRADE 60. ALL REINFORCING STEEL SIZES, SPACING, DIMENSIONS, LOCATIONS, ETC. SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS.
- PROVIDE ADEQUATE SUPPORT BARS AND ACCESSORIES TO HOLD REINFORCEMENT BARS FIRMLY IN PLACE TO SPECIFIED COVERS.
- CONTRACTOR SHALL COORDINATE THE TESTING AND INSPECTION SERVICES, BY OTHERS, IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE TESTING OR INSPECTION AGENCY FOR THE REQUIRED WORK TO ALLOW ALLOCATION OF PERSONNEL. THE COST OF ANY RETESTING OR ADDITIONAL INSPECTIONS, AS A RESULT OF UNINSPECTED WORK, FAILED TESTS, OR REJECTED WORK, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5.9. CONCRETE MIX DESIGNS SHALL BE BY AN INDEPENDENT TESTING LABORATORY.
- 5.9.1. CONCRETE STRENGTH (f'c @ 28 DAYS)
- FOOTINGS, PIERS & FOUNDATIONS STEM WALLS = 4,000 PSI
- COLUMNS = 4,000 PSI
- 5.9.2. MAXIMUM WATER / CEMENT RATIO = 0.55
- ALL EXTERIOR CONCRETE, PERMANENTLY EXPOSED TO WEATHER, SHALL BE AIR ENTRAINED TO GIVE THE CONCRETE AN AIR CONTENT OF 4% - 6% BY VOLUME. NATURALLY OCCURRING AIR CONTENT SHALL NOT

6.1. GLU-LAMINATED (GLU-LAM) TIMBERS PROPERTIES, MINIMUM

EXCEED 3% FOR NON-AIR ENTRAINED MIXES.

- 6.1.1. 24F V4 1.8E DF
- LAMINATED VENEER LUMBER (LVL) PROPERTIES, MINIMUM
- 6.2.1. E = 1,900,000 PSI
- 6.2.2. Fb = 2,600 PSI
- 6.2.3. Fv = 285 PSI
- 6.3. ALL SHEATHING SHALL BE APA RATED.
- CUTTING, NOTCHING, OR DRILLING OF BEAMS OR JOISTS SHALL BE PERMITTED ONLY AS DETAILED OR APPROVED BY
- 6.5. ALL NAILING SHALL CONFORM TO THE NAILING SCHEDULE LOCATED IN THE IBC TABLE 2304.9.1, U.N.O.
- SILL PLATES SHALL BE BOLTED TO FOUNDATION WALLS W/ $\frac{1}{2}$ " Ø HOT DIPPED GALVANIZED ANCHOR BOLTS @ 4' O.C. BOLTS SHALL EXTEND A MINIMUM OF 10" INTO FOUNDATION, EACH SILL PLATE TO HAVE A MINIMUM OF TWO BOLTS WITH ONE BOLT LOCATED WITHIN 12" OF EACH END OF EACH PIECE.
- 7. MANUFACTURED WOOD TRUSSES
- 7.1. WOOD TRUSS DESIGN SHALL BE DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF IBC WOOD SECTION 2303.4.
- 7.2. LOCATIONS FOR LATERAL RESTRAINT SHALL BE IDENTIFIED ON THE TRUSS DRAWINGS.
- 7.3. TRUSS BRIDGING, BRACING, AND/OR BLOCKING PER TRUSS MANUFACTURER.
- 7.4. SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL, SHOWING THE ERECTION PLAN, ALL BEARING CONDITIONS AND CONNECTIONS FOR THE WOOD TRUSSES. CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER SHALL BE REQUIRED FOR ALL WOOD TRUSSES.
- 7.5. WOOD TRUSS SUPPLIER SHALL DETAIL ALL TRUSS BEARINGS SO AS NOT TO EXCEED BEARING CAPACITY OF SUPPORTING PLATES.



Rochester, MN 55906

(507) 535-3526

| 1           | ISSUED FINAL PLANS            | 5/30/2019     |
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| PROJECT NU  | MBER:                         | \$19-0041     |
| DRAWN BY:   |                               | KYLE B.       |
| REVIEWED BY | /·                            | CAMERON R.    |
| DATE:       |                               | 5/17/2019     |
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REVISION

PROJECT NAME:

MAHON / MORTRUDE

SHEET NUMBER:

MINNESOTA

PROJECT NOTES

SHEET NUMBER:

| MARK  | DESCRIPTION                    | SHEATHING<br>REQUIREMENT          | FASTENER TYPE                                     | FASTENING PATTERN                       | TOTAL SHEAR<br>(UNFACTORED) | LENGTH                          | HOLD-DOWN FORCE<br>EACH END<br>(UNFACTORED) | HOLD-DOWN                       |
|-------|--------------------------------|-----------------------------------|---|---|-----------------------------|---------------------------------|---|---------------------------------|
| SW100 | SPF #2 2x6 16" O.C.<br>BLOCKED | 7/6" SHEATHING (ONE SIDE)         | 8d NAILS  | 4" O.C. (PERIMETER) & 12" O.C. (FIEILD) | 4275 LBS                    | 18'-0" (PERFORATED)             | -   |                                 |
| SW101 | SPF #2 2x4 16" O.C.<br>BLOCKED | 7/6" SHEATHING (ONE<br>SIDE)      | 8d NAILS  | 4" O.C. (PERIMETER) & 12" O.C. (FIEILD) | 8600 LBS                    | 12'-3"                          | 5620 LBS                                    | SIMPSON HDU5-SDS2               |
| SW102 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 2400 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW200 | SPF #2 2x6 16" O.C.<br>BLOCKED | ½" GYPSUM (BOTH SIDES)            | NO. 6 TYPE S OR W<br>FRYWALL SCREWS 11/4"<br>LONG | 6" O.C. (PERIMETER) & 12" O.C. (FIEILD) | 3100 LBS                    | 20'-9"                          | _   |                                 |
| SW201 | SPF #2 2x4 16" O.C.<br>BLOCKED | 7/6" SHEATHING (ONE SIDE)         | 8d NAILS  | 4" O.C. (PERIMETER) & 12" O.C. (FIEILD) | 6200 LBS                    | 9'-3"                           | 6050 LBS                                    | SIMPSON HDU5-SDS2               |
| SW202 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 1875 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW204 | SPF #2 2x6 16" O.C.<br>BLOCKED | 7/6" SHEATHING (BOTH SIDES)       | 8d NAILS  | 4" O.C. (PERIMETER) & 12" O.C. (FIEILD) | 4000 LBS                    | 3'-0"                           | 9340 LBS                                    | SIMPSON HDU8-SDS2               |
| SW205 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 1750 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW206 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 3900 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW300 | SPF #2 2x6 16" O.C.<br>BLOCKED | $\frac{1}{2}$ " GYPSUM (ONE SIDE) | NO. 6 TYPE S OR W<br>FRYWALL SCREWS 11/4"<br>LONG | 6" O.C. (PERIMETER) & 12" O.C. (FIEILD) | 1540 LBS                    | 20'-9"                          | _   |                                 |
| SW301 | SPF #2 2x4 16" O.C.<br>BLOCKED | ½" GYPSUM (BOTH SIDES)            | NO. 6 TYPE S OR W<br>FRYWALL SCREWS 11/4"<br>LONG | 4" O.C. (PERIMETER) & 16" O.C. (FIEILD) | 3100 LBS                    | 8'-3"                           | 3010 LBS                                    | SIMPSON HDU2-SDS:               |
| SW302 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 950 LBS                     | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW303 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 1750 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW304 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 2450 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW305 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 860 LBS                     | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW306 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 1390 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW307 | SPF #2 2x4 16" O.C.<br>BLOCKED | ½" GYPSUM (BOTH SIDES)            | NO. 6 TYPE S OR W<br>FRYWALL SCREWS 11/4"<br>LONG | 4" O.C. (PERIMETER) & 16" O.C. (FIEILD) | 3070 LBS                    | 10'-2"                          | 2460 LBS                                    | SIMPSON HDU2-SDS2               |
| SW308 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 1010 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW309 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 1950 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |
| SW310 | SIP PANEL                      | DESIGNED BY SIP<br>MANUFACTURER   | DESIGNED BY SIP<br>MANUFACTURER                   | DESIGNED BY SIP<br>MANUFACTURER         | 1010 LBS                    | DESIGNED BY SIP<br>MANUFACTURER | DESIGNED BY SIP<br>MANUFACTURER             | DESIGNED BY SIP<br>MANUFACTURER |

|      |                                | BEAM/HEADER SCHEDULE   |                                |   |
|------|--------------------------------|--|--------------------------------|---|
| MARK | size/description               | HANGERS  | TOP OF BEAM ELEVATION          | COMMENTS  |
| B100 | 3 PLY 1¾" x 14" LVL            |  | 108'-11½"                      | 4 PLY SPF #2 2x6 JACK STUDS EACH END  |
| B101 | TRT 5½" x 12" GLU-LAM          |  | 108'-0"                        | GLU-LAM EMBEDED IN SIP PANEL @ EXTERIOR WALL. SIP MANUFACTURER TO DESIGN STRUCTURAL COLUMN WITHIN SIP PANEL |
| B102 | TRT 8¾" x 18" GLU-LAM          | SEE \$1.1  | 107'-11½"                      |   |
| B103 | TRT 123/4" x 24" GLU-LAM       | SIMPSON VGT (EACH SIDE @ EACH<br>CONCRETE SUPPORT)   | 107'-111/4"                    | MOISTURE BARRIER REQUIRED @ WOOD TO CONCRETE CONNECTION   |
| B104 | TRT 5½" x 15" GLU-LAM          | SIMPSON MGU5.50-SDS (@ GLU-LAM)<br>SIMPSON MGU5.50-SDSxSKL13 &<br>MSGU5.0-SDSxSKR13 (SKEWED LOCATIONS) | 107'-111/4"                    |   |
| B105 | TRT 5½" x 12" GLU-LAM          |  | 108'-0"                        | GLU-LAM EMBEDED IN SIP PANEL @ EXTERIOR WALL. SIP MANUFACTURER TO DESIGN STRUCTURAL COLUMN WITHIN SIP PANEL |
| B200 | TRT 4 PLY SP SS 2x12           |  | 108'-11½"                      |   |
| B201 | 2 PLY SPF #2 2×12              |  | 108'-111/4"                    |   |
| B202 | 7½" x 15" GLU-LAM              |  | 118'-103/4"                    | SHIM TOP OF GLU-LAM 3/4" @ 2x12 STICK<br>FRAMING TO MATCH ADJACENT FLOOR<br>PANEL                           |
| B204 | 5½" x 12 GLU-LAM               |  | 118'-103'/4"                   |   |
| B205 | 2 PLY SPF #2 2x12              | SIMPSON HU212-2 (EACH END)   | 108'-1111/4"                   |   |
| B206 | 2 PLY SPF #2 2x12              | SIMPSON HU212-2xSKR13 (@ SKEW)<br>SIMPSON HU212-2  | 108'-11½"                      |   |
| B207 | 2 PLY SPF #2 2x12              | SIMPSON HU212-2 (@ BEAM)   | 108'-11½"                      |   |
| B300 | 2 PLY 13/4" x 20" LVL          | SIMPSON HUC416 (@ SIP PANEL)   | 119'-10"                       | RECESSED IN TO FLOOR SYSTEM   |
| B301 | DESIGNED BY SIP MANUFACTURER   | DESIGNED BY SIP MANUFACTURER   | DESIGNED BY SIP MANUFACTURER   | RECESSED IN SIP PANEL   |
| B302 | DESIGNED BY TRUSS MANUFACTURER | DESIGNED BY TRUSS MANUFACTURER   | DESIGNED BY TRUSS MANUFACTURER | RECESSED IN TO FLOOR SYSTEM   |
| B303 | DESIGNED BY TRUSS MANUFACTURER | DESIGNED BY TRUSS MANUFACTURER   | DESIGNED BY TRUSS MANUFACTURER | RECESSED IN TO FLOOR SYSTEM   |
| B400 | 3 PLY SPF #2 2x12              | SIMPSON HU210-3 (EACH END)   | 128'-8½"                       |   |
| H100 | DESIGNED BY SIP MANUFACTURER   |  | -                              |   |
| H101 | REINFORCED CONCRETE            |  | -                              | SEE 7/\$3.0   |
| H200 | DESIGNED BY SIP MANUFACTURER   |  | -                              |   |
| H201 | 2 PLY SPF #2 2x8               |  | ABOVE DOOR OPENING             | (1) SPF #2 2x4 JACK & KING STUD EACH<br>END   |
| H300 | DESIGNED BY SIP MANUFACTURER   |  |                                |   |

|        | FLOC   | DR JOISTS/RIMS/LEDGERS/TRUSS SCHEDULE                    |                       |  |
|--------|--|--|-----------------------|--|
| MARK   | size/description   | HANGERS  | TOP OF BEAM ELEVATION | COMMENTS   |
| BLK200 | SPF #2 2x12 BLOCKING   |  | 108'-11½"             |  |
| FT300  | 20" FLOOR TRUSS BY COMPONENT SUPPLIER                            | DESIGNED BY COMPONENT SUPPLIER                           | 119'-10"              | 24" O.C. MAX SPACING   |
| J200   | TRT SP SS 2x12 12" O.C. (2 PLY @<br>REQUIRED JOISTS LENGTH >22') | SIMPSON H2.5A (@GLU-LAM)<br>SIMPSON JB212A (@ SP BEAM)   | 108'-101/2"           | FASTEN TO ADJACENT JOIST W/ 2 ROWS<br>SDS25300 SCREWS 12" O.C. @ 2 PLY<br>JOISTS |
| J201   | TRT SP SS 2×12 12" O.C.  | SIMPSON HU212xSKL13 (@ BEAM)                             | 108'-1111/4"          |  |
| J202   | SPF #2 2x12 16" O.C.   | SIMPSON JB212A (@ BEAM)                                  | 108'-111/4"           |  |
| J203   | TRT SP SS 2x12 16" O.C.  | SIMPSON H2.5A (@GLU-LAM)                                 | 108'-1111/4"          |  |
| J204   | 2 PLY TRT SP SS 2x12 12" O.C.                                    | SIMPSON HU212-2xSKL13 (@ BEAM)                           | 108'-1111/4"          |  |
| J300   | TRT SP SS 2x12 JOISTS 16" O.C.                                   |  | 119'-10"              |  |
|        |  |  |                       |  |
|        |  |  |                       |  |
| J300   | TRT SP SS 2x12 JOISTS 16" O.C.                                   | SIMPSON H2.5A (@GLU-LAM)<br>SIMPSON JB212A (@ SP LEDGER) | 119'-10"              |  |
| J301   | SPF #2 2x12 JOISTS 16" O.C.                                      |  | 119'-103'/4"          |  |
| J400   | SPF #2 2x10 16" O.C.   | SIMPSON JB212A (EACH END)                                | 128'-8½"              |  |
| J401   | SPF #2 2x10 24" O.C.   |  | 128'-8½"              | OVERHANG DESIGNED BY SIP<br>MANUFACTURER   |
| J402   | SPF #2 2x10 24" O.C.   | SIMPSON JB212A (EACH END)                                | 128'-8½"              |  |
| L200   | TRT SP SS 2x12   |  | 108'-10½"             | FASTEN TO ADJACENT STRUCTURE W/ 2<br>ROWS SDS25300 SCREWS 12" O.C.               |
| L300   | TRT SP SS 2x12   |  | 119'-10"              | FASTEN TO ADJACENT STRUCTURE w/ 2<br>ROWS SDS25300 SCREWS 12" O.C.               |
| R200   | 2 PLY TRT SP SS 2x12   |  | 108'-10½"             |  |
| R201   | SPF #2 2x12  |  | 108'-111/4"           |  |
| R202   | TRT SP SS 2x12   |  | 108'-111/4"           |  |
| R203   | TRT SP SS 2x12   |  | 108'-10½"             |  |
| R300   | TRT SP SS 2x12   |  | 119'-10"              |  |
| R301   | SPF #2 2x12  |  | 119'-103/4"           |  |

|         |  | SIP PANEL STRUCTURAL MEMBER |                       |                     |
|---------|--|-----------------------------|-----------------------|---------------------|
| MARK    | SIZE/DESCRIPTION                               | HANGERS                     | TOP OF BEAM ELEVATION | COMMENTS            |
| SPS200  | PANEL SPLINE PER SIP MANUFACTURER              |                             | 108'-11½"             |                     |
| SP\$201 | 2 PLY SPF #2 2x12                              |                             | 108'-11½"             |                     |
| SPS202  | PANEL PERIMETER LUMBER PER SIP<br>MANUFACTURER |                             | 108'-111/4"           |                     |
| SPS203  | SPF #2 2x12                                    |                             | 108'-111/4"           | 4' O.C. MAX SPACING |
| SPS300  | 2 PLY SP MSR2400f-2.0E 2x12                    |                             | 119'-103⁄4"           | 4' O.C. MAX SPACING |
| SP\$301 | PANEL PERIMETER LUMBER PER SIP<br>MANUFACTURER |                             | 119'-10¾"             |                     |
| SPS302  | 2 PLY 1¾" x 18" LVL                            |                             | 119'-2"               | 8' O.C. MAX SPACING |
| SPS303  | 2 PLY 1¾" x 18" LVL                            |                             | 119'-2"               | 4' O.C. MAX SPACING |
| SPS304  | PANEL PERIMETER LUMBER PER SIP<br>MANUFACTURER |                             | 119'-2"               |                     |
| SPS400  | 3 PLY SP MSR2400f-2.0E 2x10                    |                             | 128'-81/2"            | 4' O.C. MAX SPACING |
| SPS401  | 2 PLY SP MSR2400f-2.0E 2x10                    |                             | 128'-81/2"            | 4' O.C. MAX SPACING |
| SPS402  | PANEL PERIMETER LUMBER PER SIP<br>MANUFACTURER |                             | 128'-81/2"            |                     |
| SPS403  | 4 PLY 1¾" x 9¾" LVL                            | SEE \$1.6                   | 128'-8½"              |                     |

| SPS = STRUCTURAL PANEL SPLINE (SIP MANUFACTURER TO DESIGN ALL CONNECTIONS WITHIN SIP PANELS & CONNECTIONS WITHIN SIP PANELS WITHIN S | TIONS TO ADJACENT STRUCTURE) |
|--|------------------------------|
| ALL SIP STRUCTURAL MEMBERS TO BE VERIFIED BY SIP MANUFACTURER TO ENSURE PROPER MEMBER/PA   | NEL INTERACTION              |

|       | INTERIOR BEARING      | G WALL SCHEDULE   |  |
|-------|-----------------------|---|--|
| MARK  | DESCRIPTION           | VERTICAL LOAD   | NOTES  |
| BW100 | SPF #2 2x6 @ 16" O.C. | SNOW LOAD = 494 PLF<br>DEAD LOAD = 260 PLF                          | SEE SHEAR WALL<br>SCHEDULE FOR WA<br>SHEATHING<br>REQUIREMENTS |
| BW101 | SPF #2 2x4 @ 16" O.C. | FLOOR LOAD = 180 PLF<br>DEAD LOAD = 149 PLF                         |  |
| BW200 | SPF #2 2x6 @ 16" O.C. | SNOW LOAD = 494 PLF<br>DEAD LOAD = 555 PLF<br>FLOOR LOAD = 260 PLF  | SEE SHEAR WALL<br>SCHEDULE FOR WA<br>SHEATHING<br>REQUIREMENTS |
| BW300 | SPF #2 2x6 @ 16" O.C. | SNOW LOAD = 494 PLF<br>DEAD LOAD = 1075 PLF<br>FLOOR LOAD = 780 PLF | SEE SHEAR WALL<br>SCHEDULE FOR WA<br>SHEATHING<br>REQUIREMENTS |

| CONNECTION                        | FASTENING                              | LOCATIONS  |
|-----------------------------------|--|--|
| JOIST TO SILL OR GIRDER           | (3) 8d COMMON NAILS                    | TOE NAIL   |
| BRIDGING TO JOIST                 | (2) 8d COMMON NAILS                    | TOE NAIL EACH END                                    |
|                                   | (2) 16d COMMON NAILS (JOIST)           |  |
| SILL PLATE TO JOIST/BLOCKING      | 16d COMMON NAILS 8" O.C.<br>(BLOCKING) | FACE NAIL  |
| TOP PLATE TO STUD                 | (2) 16d COMMON NAILS                   | END NAIL   |
| 27112 70 2111 21 177              | (2) 16d COMMON NAILS                   | END NAIL   |
| STUD TO SILL PLATE                | (4) 8d COMMON NAILS                    | TOE NAIL   |
| MULTIPLE PLY STUDS                | 16d COMMON NAILS @ 24" O.C.            | FACE NAIL  |
| DOUBLE TOP PLATES                 | 16d COMMON NAILS @ 16" O.C.            | FACE NAIL  |
|                                   | (8) 16d COMMON NAILS                   | LAP SPLICE   |
| JOIST BLOCKING TO TOP PLATE       | (3) 8d COMMON NAILS                    | TOE NAIL   |
| RIM TO TOP PLATE                  | 8d COMMON NAILS 8" O.C.                | TOE NAIL   |
| TOP PLATES (LAPS & INTERSECTIONS) | (2) 16d COMMON NAILS                   | FACE NAIL  |
| HEADER TO STUD                    | (4) 8d COMMON NAILS                    | TOE NAIL   |
| BUILT-UP CORNER STUDS             | 16d COMMON NAILS 24" O.C.              | FACE NAIL  |
| BILLIT LID CIDDEDS & DEVIVE       | 20d COMMON 32" O.C.                    | FACE NAIL (TOP & BOTTOM STAGGERED ON OPPOSITE SIDES) |
| BUILT-UP GIRDERS & BEAMS          | (2) 20d COMMON                         | FACE NAIL @ ENDS & EACH SPLIC                        |

| HANGER FASTENING SCHEDULE |                               |   |  |
|---------------------------|-------------------------------|---|--|
| DESCRIPTION               | FASTENING @ SUPPORT MEMBET    | FASTENING @ CARRIED MEMBER                  |  |
| JB212A                    | (6) 0.162 x 3½"               | (2) 0.148 x 1½"                             |  |
| SIMPSON HUC210-2          | (18) 0.162 x 3½"              | (10) 0.148 x 3"                             |  |
| SIMPSON HUC210-3          | (18) 0.162 × 3½"              | (10) 0.148 x 3"                             |  |
| SIMPSON H6                | (8) 0.131 x 2½"               | (8) 0.131 x 2 <sup>1</sup> / <sub>2</sub> " |  |
| SIMPSON DTT2Z-SDS         | (1) ½" ANCHOR                 | (8) 1/4" x 21/2" SDS                        |  |
| SIMPSON HDU5-SDS2.5       | (1) <sup>5</sup> %" ANCHOR    | (14) ½" x 2½" SDS                           |  |
| SIMPSON DTT1Z             | (1) 3%" ANCHOR                | (8) 0.148 x 1 <sup>1</sup> / <sub>2</sub> " |  |
| SIMPSON H2.5A             | (5) 0.131 x 1½"               | (5) 0.131 x 2 <sup>1</sup> / <sub>2</sub> " |  |
| SIMPSON HUC416            | (26) 0.162 x 3½"              | (12) 0.148 x 3"                             |  |
| SIMPSON HU212             | (10) 0.162 x 3½"              | (6) 0.148 x 1 <sup>1</sup> / <sub>2</sub> " |  |
| SIMPSON HU212-2           | (22) 0.162 x 3½"              | (10) 0.148 x 3"                             |  |
| SIMPSON HUC416            | (26) 0.162 x 3½"              | (12) 0.148 x 3"                             |  |
| SIMPSON VGT               | (1) 5/8" ANCHOR (TO CONCRETE) | (16) ½" × 3" SDS                            |  |
| SIMPSON MGU5.50-SDS       | (24) ½" x 2½" SDS             | (16) ½" x 2½" SDS                           |  |
| SIMPSON HHGU9.00-SDS      | (44) ½" x 2½" SDS             | (28) ½" x 2½" SDS                           |  |
| SIMPSON EG9               | (4) 1" BOLTS                  | (2) 1" BOLTS                                |  |
| SIMPSON HDU2-SDS2.5       | (1) <sup>5</sup> %" ANCHOR    | (6) 1/4" x 21/2" SDS                        |  |
| SIMPSON HDU8-SDS2.5       | (1) ½" ANCHOR                 | (20) ½" x 2½" SDS                           |  |



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| PROJECT NUMBER: |                    | \$19-0041  |
| DRAWN BY:       |                    | KYLE B.    |
| REVIEWED BY     | ··                 | CAMERON R. |
| DATE:           |                    | 5/17/2019  |

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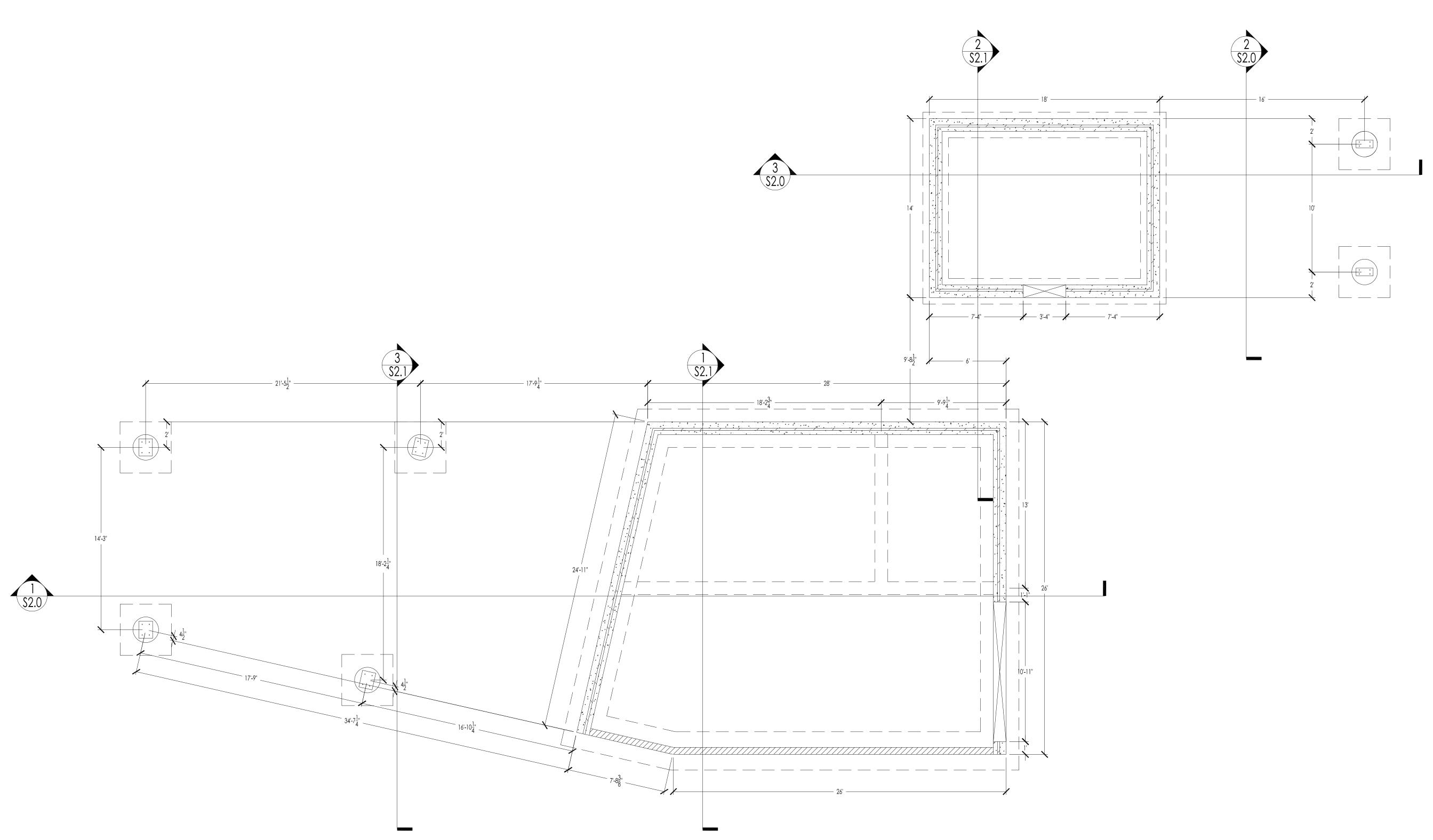
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FOUNDATION PLAN
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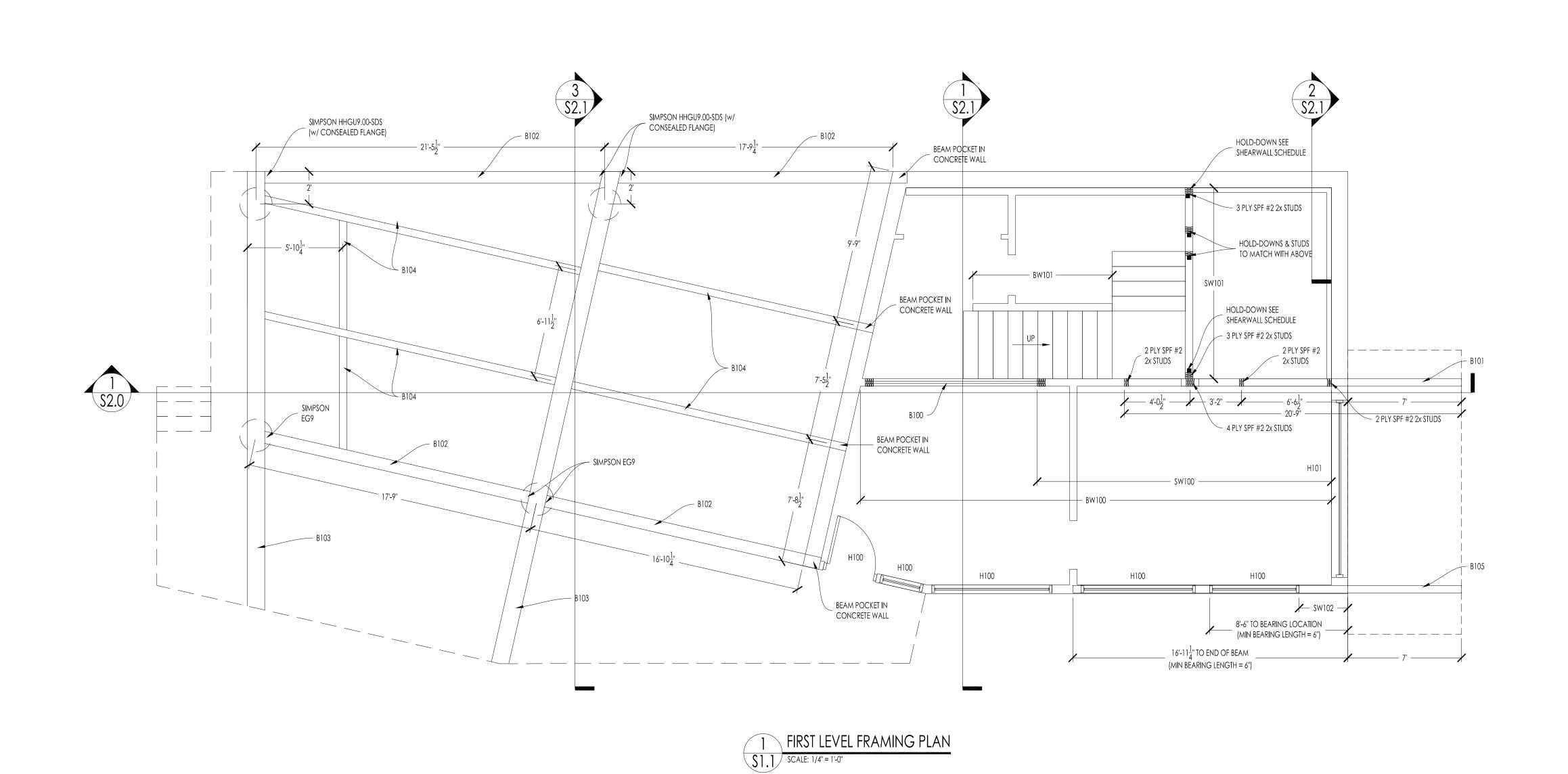
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| PROJECT NUMBER:        |                    | \$19-0041  |
| DRAWN BY: REVIEWED BY: |                    | KYLE B.    |
|                        |                    | CAMERON R. |
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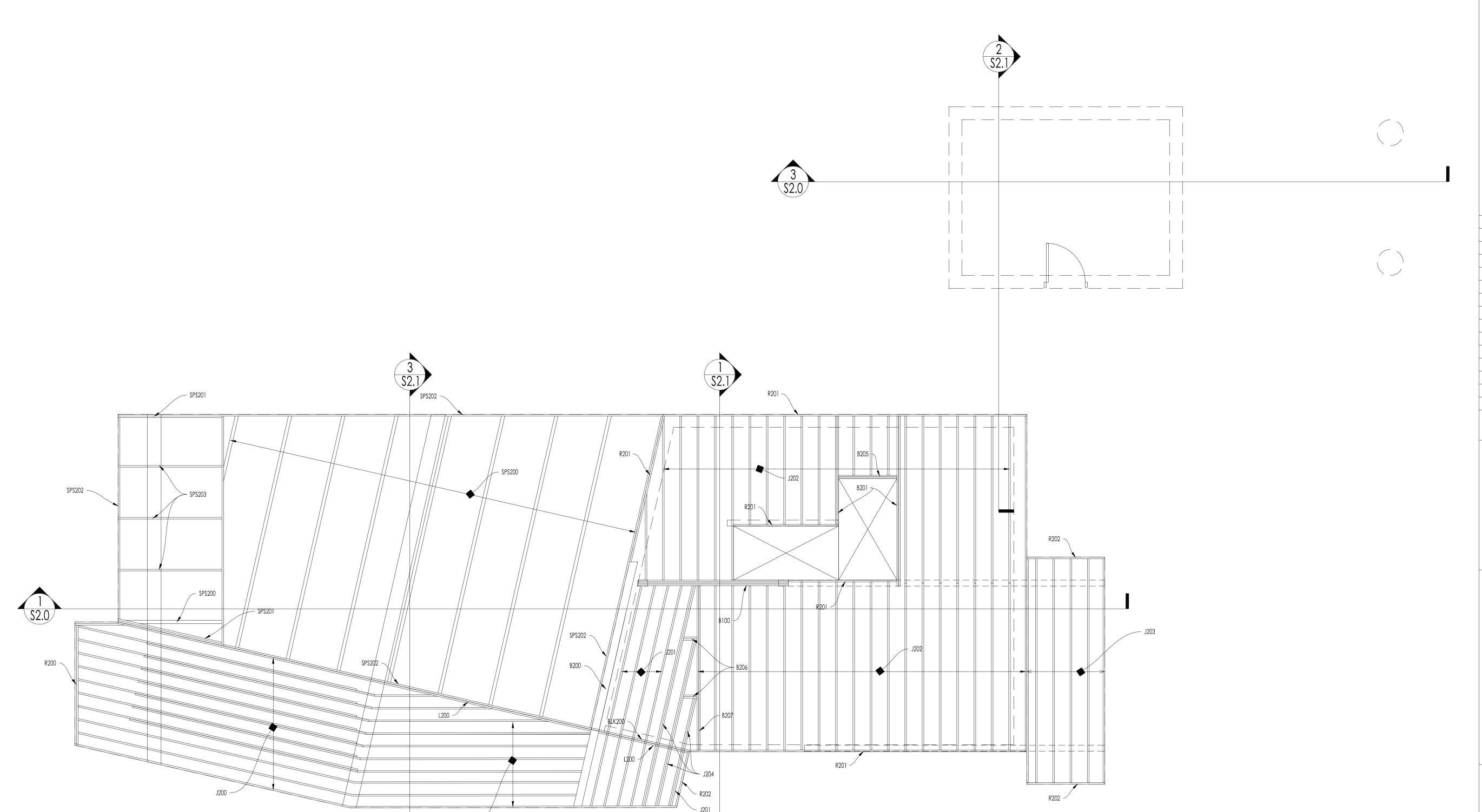
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FIRST LEVEL FRAMING PLAN

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SECOND FLOOR FRAMING PLAN

\$1.2 | SCALE: 1/4" = 1'-0"

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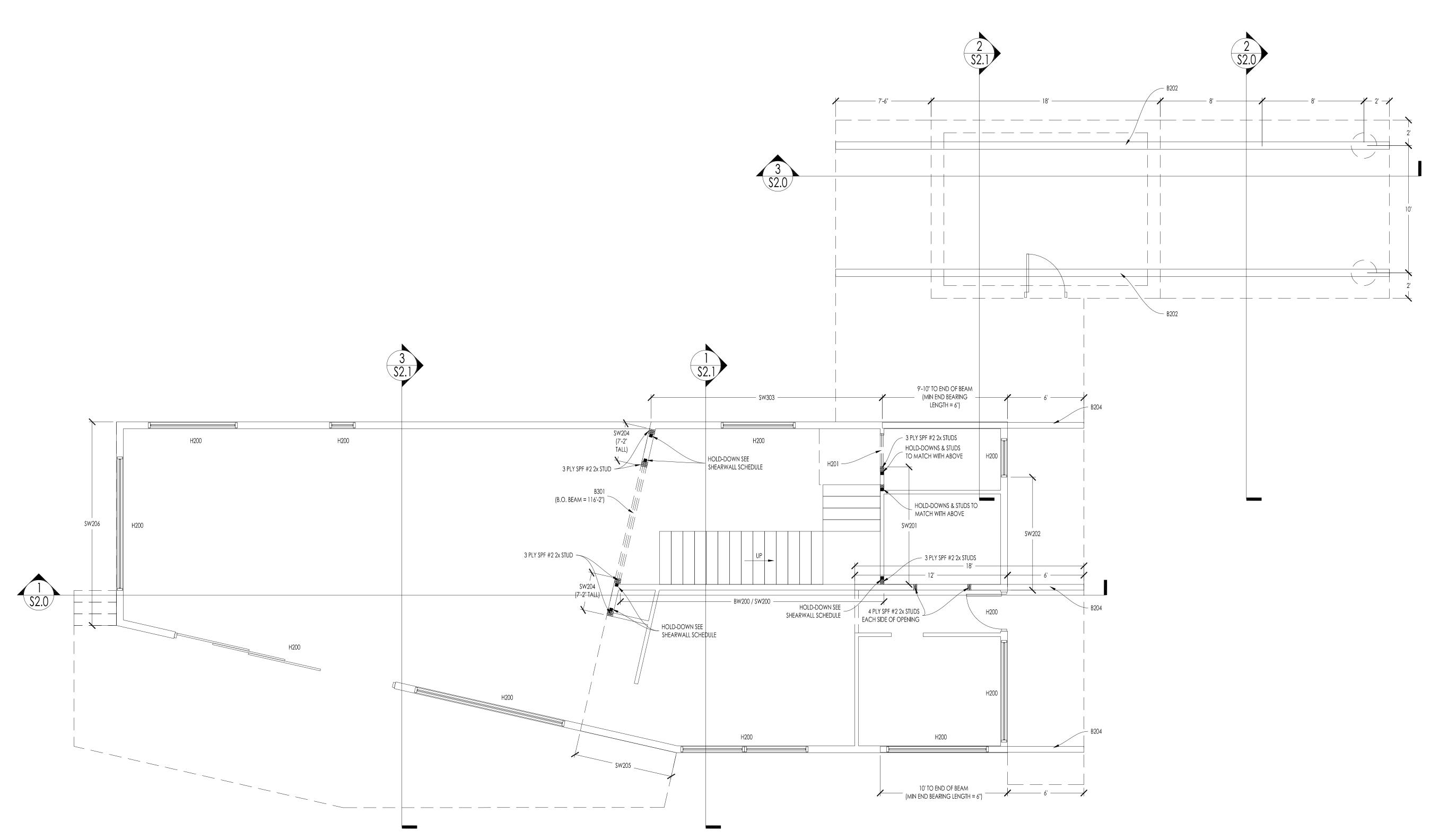
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| REVIEWED  | BY:                | CAMERON R |

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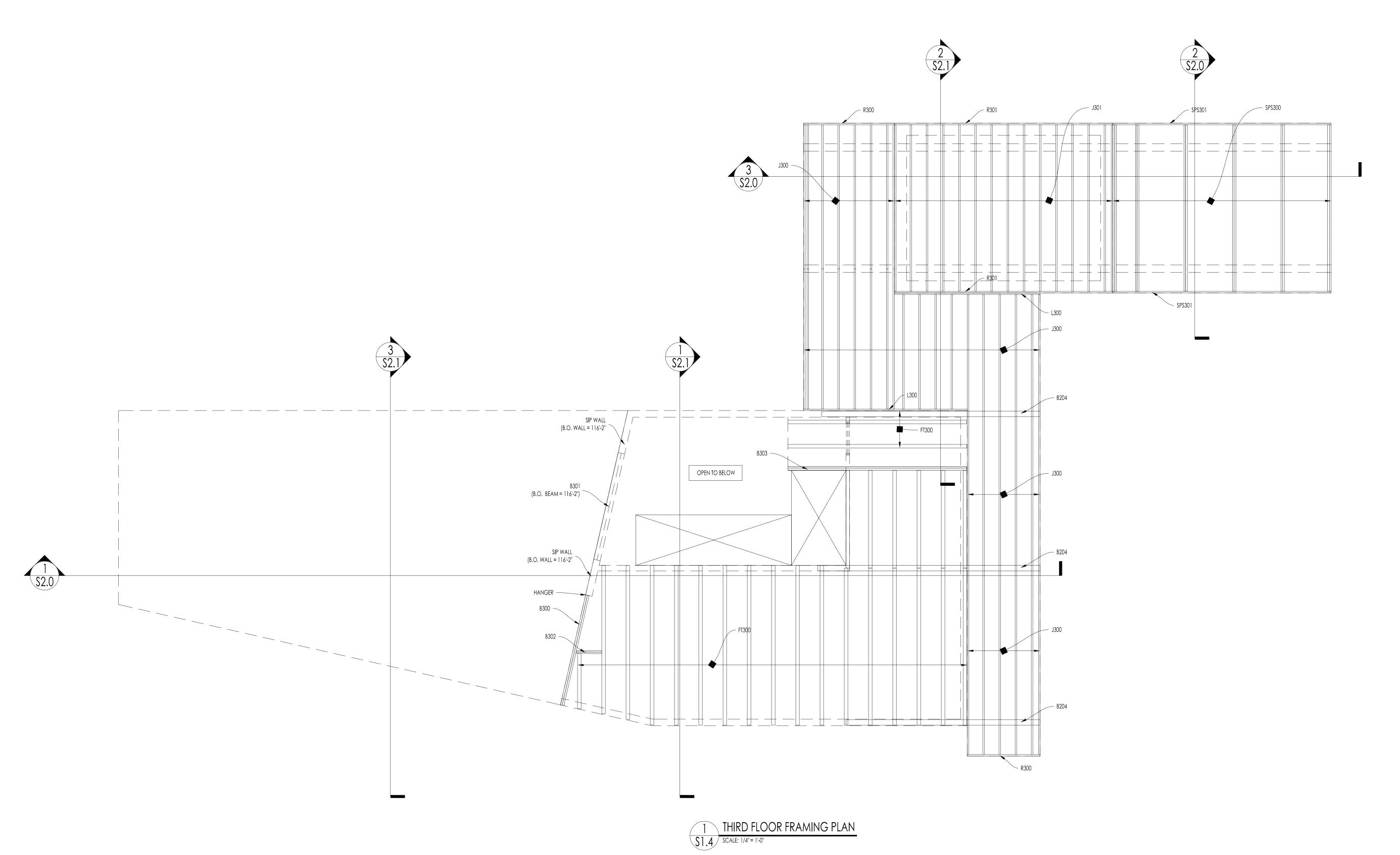
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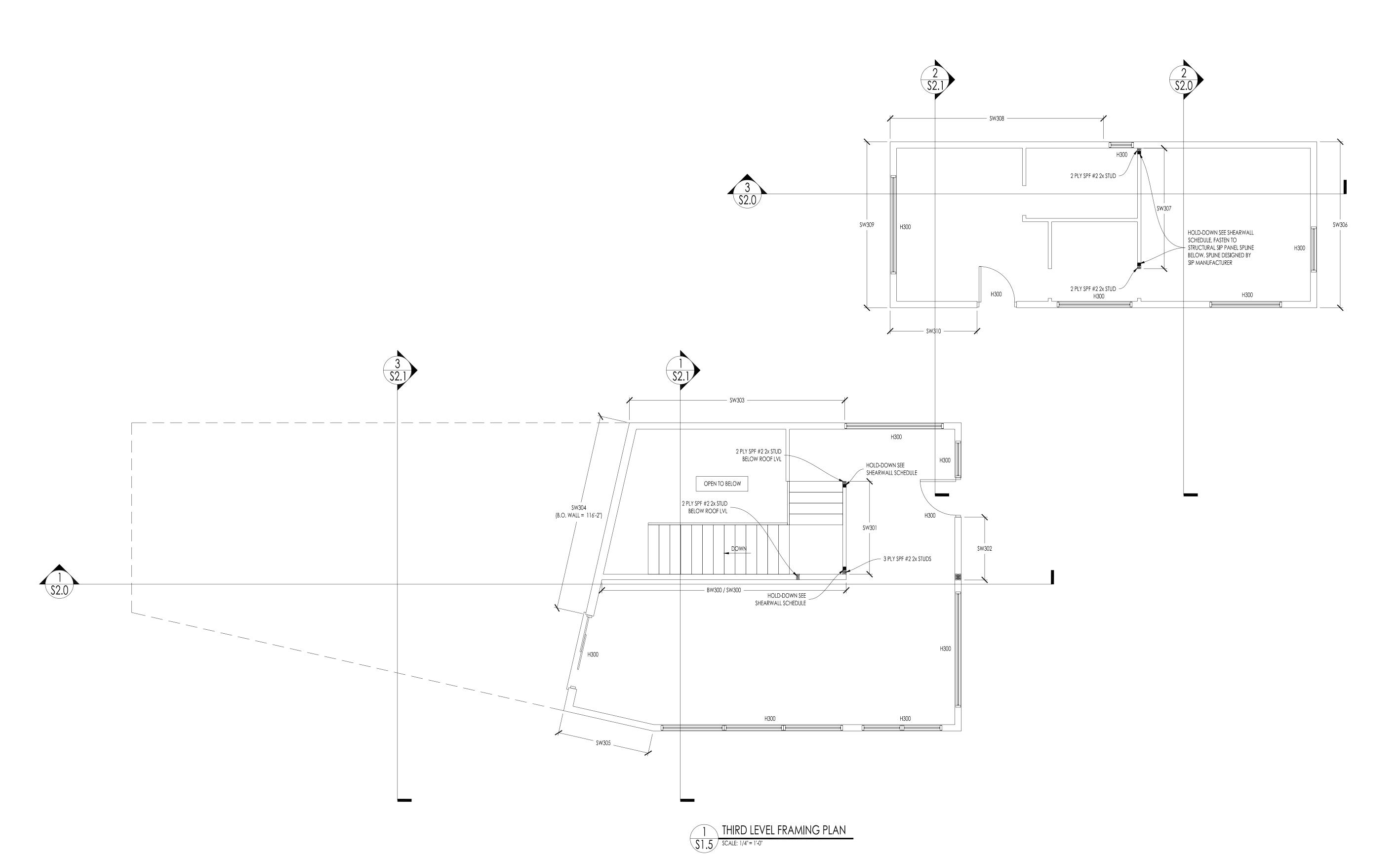
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