

STRUCTURAL GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS. FURTHERMORE, THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE SAFETY OF ADJACENT PROPERTY AND THE PUBLIC.
2. NO PROVISIONS HAVE BEEN MADE FOR ANY TEMPORARY CONDITIONS THAT MAY ARISE DURING CONSTRUCTION PRIOR TO THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING, AND TEMPORARY BRACING DURING THE PROJECT.
3. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS THAT MAY AFFECT THE WORK. BECAUSE THIS PROJECT INVOLVES RETROFITTING AND MODIFICATIONS OF EXISTING STRUCTURES, THE CONTRACTOR SHALL TAKE THE NECESSARY MEASURE TO FIELD VERIFY EXISTING CONDITIONS AS SHOWN ON THE DRAWINGS.
4. ANY MODIFICATION OR ALTERATION OF THESE CONSTRUCTION DOCUMENTS OR CHANGES IN CONSTRUCTION FROM THE INTENT OF THESE DOCUMENTS BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL OF THE ENGINEER SHALL REMOVE ALL PROFESSIONAL AND LIABILITY RESPONSIBILITY ON THE PART OF THE ENGINEER. ALTERNATE CONNECTION DETAILS MAY BE USED IF SUBMITTED TO THE ENGINEER FOR REVIEW, AND ACCEPTANCE GRANTED.
5. DO NOT SCALE FROM THE DRAWINGS.

DESIGN CRITERIA

1. INTERNATIONAL BUILDING CODE, 2003 EDITION; INCLUDING CONSIDERATION OF CHAPTER 34, EXISTING BUILDINGS.

ADDRESS: 61 INDIA STREET, PORTLAND, MAINE
CITY CHART - BLOCK - LOT NUMBER 020-E021-001
ZONE B-2B

SLAB LIVE LOAD: MERCANTILE/OFFICE/RESIDENTIAL OCCUPANCY
GROUND FLOOR (MERCANTILE) 100 POUNDS PER SQUARE FOOT
SECOND FLOOR (OFFICE) 80 POUNDS PER SQUARE FOOT
THIRD FLOOR (RESIDENTIAL) 40 POUNDS PER SQUARE FOOT
FOURTH FLOOR (RESIDENTIAL) 40 POUNDS PER SQUARE FOOT

SNOW LOAD IS BASED UPON A GROUND SNOW LOAD OF 60 PSF;
NET FLAT ROOF SNOW LOAD IS 42 PSF.

WIND LOAD: PER IBC SECTION 1609.0/ASCE 7-02 CHAPTER 6

BASIC WIND SPEED, (3 SEC GUST)	100 mph
IMPORTANCE FACTOR I_w	1.00
EXPOSURE CATEGORY	B
BUILDING CLASSIFICATION	II
BASIC WIND PRESSURE	20 psf
COMPONENT/CLADDING PRESSURE	30 psf (VARIES)

SEISMIC LOAD: PER IBC SECTION 1615.0;
EARTHQUAKE DESIGN DATA PER SECTION 1616.3;

SEISMIC IMPORTANCE FACTOR, I_e	1.0
SEISMIC USE GROUP	I
SHORT-PERIOD RESPONSE ACCELERATION	0.37
1-SECOND RESPONSE ACCELERATION	0.10
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC FORCE-RESISTING SYSTEM	STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC WITH CONTRIBUTIONS FROM SHEAR WALLS
RESPONSE MODIFICATION FACTOR	3 (ICC Table 1617.6.2, type 8)
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE

LUMBER AND JOIST HANGERS

1. ALL COMPOSITE LUMBER USED ON THIS JOB SHALL BE VERSA-LAM MANUFACTURED BY BOISE ENGINEERED WOOD PRODUCTS. BENDING STRESS $F_b = 3100$ psi, ELASTIC MODULUS $E = 2,000$ ksi. FRAMING LUMBER USED FOR OTHER WALL AND ROUGH CARPENTRY APPLICATIONS SHALL BE SPRUCE-PINE-FIR NO. 2 OR BETTER, KILN DRIED TO A MOISTURE CONTENT OF LESS THAN 19 PERCENT.
2. ALL JOIST HANGERS, HURRICANE TIES, AND ATTACHMENT HARDWARE ARE TO BE AS SPECIFIED, MANUFACTURED BY SIMPSON STRONG-TIE. CONNECT ALL JOIST HANGERS PER SIMPSON STRONG-TIE REQUIREMENTS.
3. SPECIAL ATTENTION SHOULD BE TAKEN TO INSTALL FASTENERS AS INDICATED ON THE DRAWINGS.
4. NEW STRUCTURAL FRAMING INSTALLATION SHOULD OCCUR WHILE TEMPORARY SHORING IS IN PLACE.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK AND REINFORCING BAR DETAILS FOR THE SLAB SHALL CONFORM TO THE LATEST ACI STANDARDS, ACI 301 AND 318.
2. SLAB CONCRETE SHALL BE AIR-ENTRAINED, REINFORCED WITH FIBERMESH, AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 psi. WET CURE SLABS FOR SEVEN DAYS.
3. PLACE NO CONCRETE WITHOUT REVIEW AND APPROVAL OF THE REINFORCING AND EMBEDDED ITEMS BY THE CITY OR BY THE ENGINEER.
4. FIRMLY SECURE ALL EMBEDMENTS IN CONCRETE, INCLUDING ANCHOR BOLTS, BY TIE WIRE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT. VERIFY AND COORDINATE ALL DIMENSIONS AND LOCATIONS OF PIPE SLEEVES, ANCHOR BOLTS, RADIANT HEAT TUBING, AND OTHER EMBEDDED ITEMS AS REQUIRED.
5. ALL CONCRETE MATERIALS, REINFORCEMENT, AND FORMS SHALL BE FREE OF FROST OR DEBRIS.
6. CONSOLIDATE ALL CONCRETE WITH A VIBRATOR OR OTHER MEANS RECOMMENDED BY ACI 301.
7. SLAB WIRE REINFORCING SHALL BE ASTM A185. PROVIDE GRADE 60 REBAR AROUND INSIDE CORNERS.

STRUCTURAL STEEL

1. THIS PROJECT INCORPORATES THE USE OF RECYCLED STRUCTURAL STEEL TUBE COLUMNS AND CHANNELS WITH NEW STRUCTURAL STEEL GIRDERS. STRUCTURAL STEEL TUBE COLUMNS ARE ASSUMED TO BE ASTM A53 PER AGE AND TYPE. STRUCTURAL STEEL CHANNELS ARE ASSUMED TO BE ASTM A36 PER AGE AND TYPE. RECYCLED STRUCTURAL STEEL WAS SALVAGED FROM A MEZZANINE AT NAUTICA IN ROCKLAND, ME.
2. UNLESS NOTED, STRUCTURAL STEEL SHALL BE ASTM A36, $F_y = 36$ ksi. UNLESS NOTED, NEW A36 STRUCTURAL STEEL SHALL BE PRIMED WITH A ZINC-RICH PRIMER.
3. WELDED CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF AWS D1.1, STRUCTURAL WELDING CODE FOR PROCEDURES, APPEARANCE, QUALITY OF WELDS, AND METHODS USED IN CONNECTING WELDING WORK. WELDING ELECTRODES SHALL BE CLASS E70XX.
4. ALL COLUMN BASES PLACED ON CONCRETE SHALL BE SET ON A $\frac{1}{4}$ " LEVELING PLATE WHICH SHALL BE SET ON TOP OF A MINIMUM $\frac{3}{4}$ " OF NON-SHRINK GROUT. ANCHOR BOLTS SHALL BE SET BY A TEMPLATE.
5. SHOP-PRIME ALL STEEL GIRDERS. SURFACE PREPARATION SHALL BE IN COMPLIANCE WITH SSPEC-SP3. PRIMER SHALL BE TNEMEC 90-97 GRAY PRIMER, WITH A MINIMUM THICKNESS OF 2.0 mils OR APPROVED EQUAL. APPLICATION AND TOUCH-UP SHALL BE IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. BOLTED FIELD CONNECTIONS SHALL BE PERFORMED USING A325-N BOLTS. ANCHOR BOLTS SHALL BE $\frac{3}{4}$ " A307 UNLESS OTHERWISE NOTED.

RESURGENCE

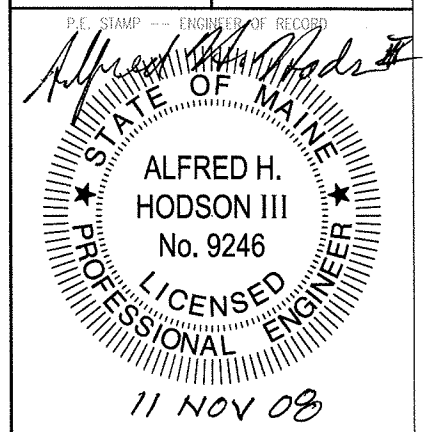
ENGINEERING & PRESERVATION, INC.
132 BRENTWOOD STREET
PORTLAND, ME 04103
V/F (207) 773-4880
RESURGENCE@VERIZON.NET

CLIENT: PEARL PROPERTIES
61 INDIA STREET
PORTLAND, ME 04101

DATE: 11 NOV 08
SCALE: AS NOTED

DRAWN BY: A. HODSON
CHECKED BY: A. HODSON

PROJECT NUMBER: 08-003
CAD FILE: 61INDIABBS.DWG



PROJECT: 61 INDIA STREET
LIVERY
STRUCTURAL STABILIZATION

DRAWING NUMBER:

S0.0

SHEET 1 OF 9

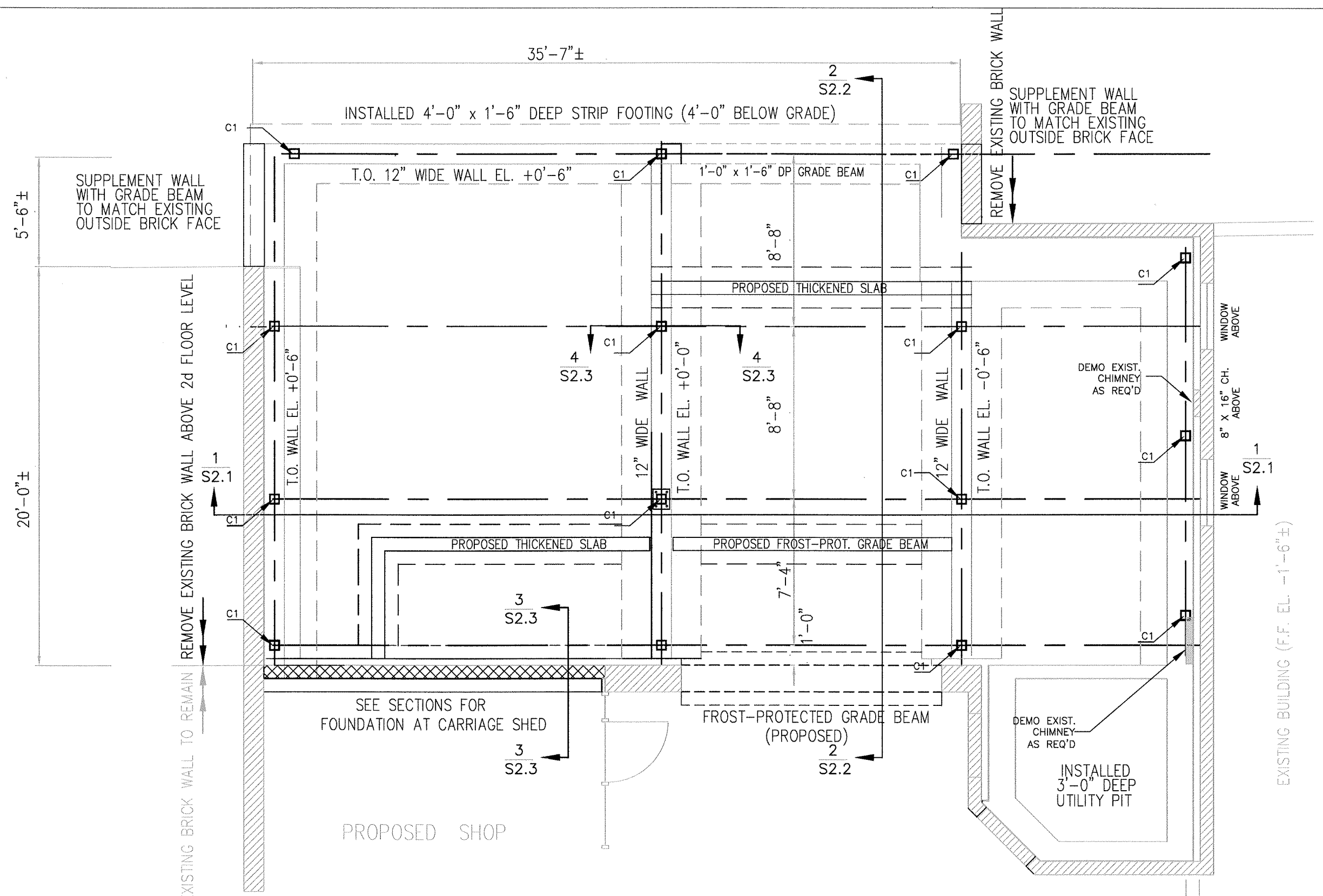
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DRAWN BY: A. HODSON	CHECKED BY: A. HODSON
PROJECT NUMBER: 08-003	CAD FILE S1.1 NOV08.DWG

P.E. STAMP -- ENGINEER OF RECORD

ALFRED H. HODSON III
 No. 9246
 LICENSED PROFESSIONAL ENGINEER
 11 NOV 08

PROJECT: 61 INDIA STREET
 LIVERY
 STRUCTURAL STABILIZATION

ISSUED FOR PERMIT
 04 SEPTEMBER 2008
 REVISED 11 NOVEMBER 2008



1 FOUNDATION PLAN – EXISTING CONDITION AND ADDITIONAL WORK

SCALE: 3/16" = 1'-0"

- NOTE 1: SLAB TO BE 4" CONCRETE SLAB ON GRADE WITH FIBERMESH. TOP OF SLAB EL. 0'-0". TIE OVER OR INTO WALLS AS REQUIRED.
- NOTE 2: IN-PLACE CONCRETE WORK IS SHOWN IN SCREENED PEN; PROPOSED CONCRETE WORK IN DARK PEN.
- NOTE 3: PROVIDE SAWCUT SLAB CONTROL JOINTS AT 12'-0" O.C. EACH WAY OR AS DESIGNATED BY ENGINEER.
- NOTE 4: SEE SHEET G1.5, KEY S01, FOR SLAB-ON-GRADE ASSEMBLY, INCLUDING RADON MITIGATION.

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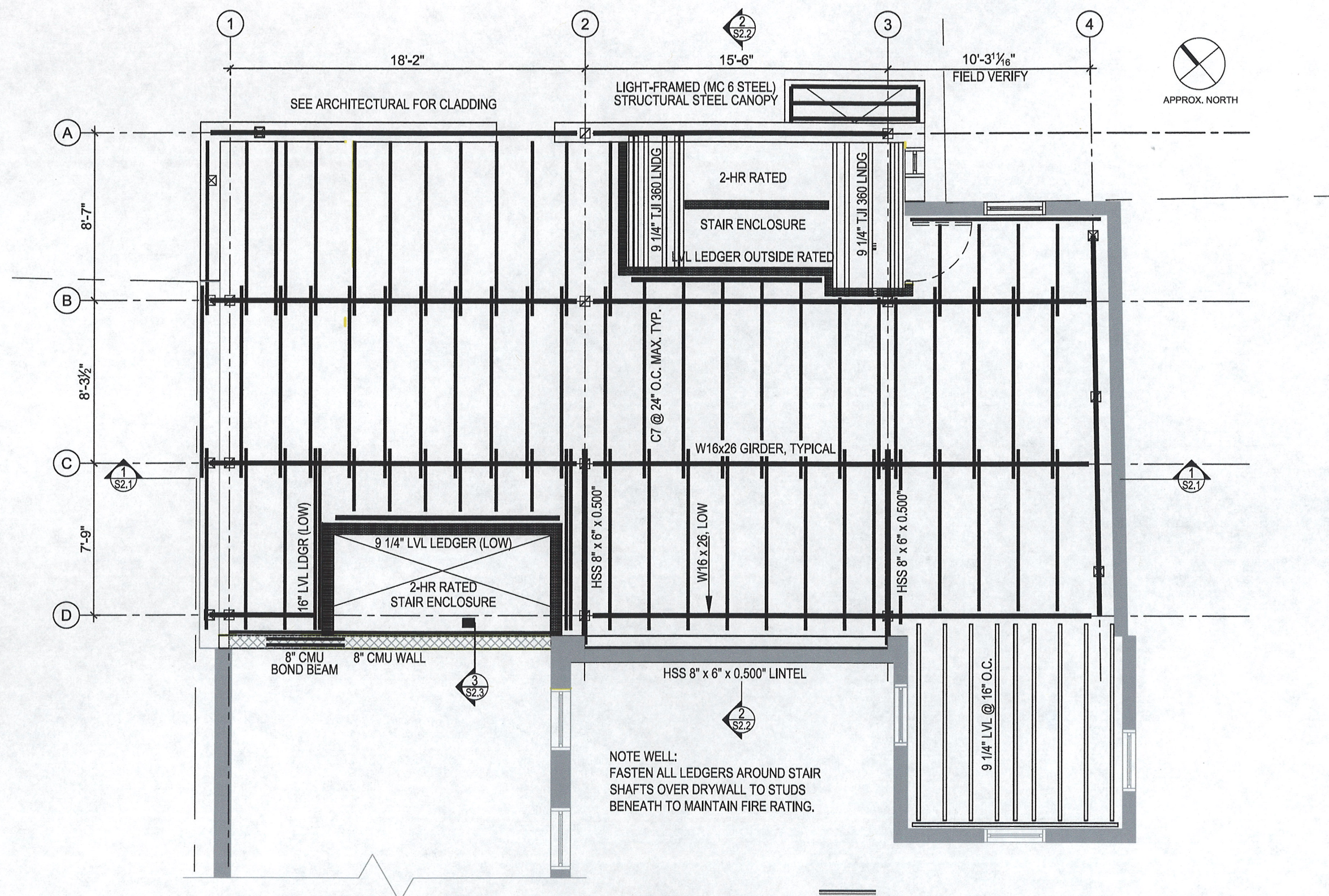
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NOTE WELL:
 FASTEN ALL LEDGERS AROUND STAIR
 SHAFTS OVER DRYWALL TO STUDS
 BENEATH TO MAINTAIN FIRE RATING.

2 SECOND FLOOR FRAMING PLAN
 3/16" = 1'-0"

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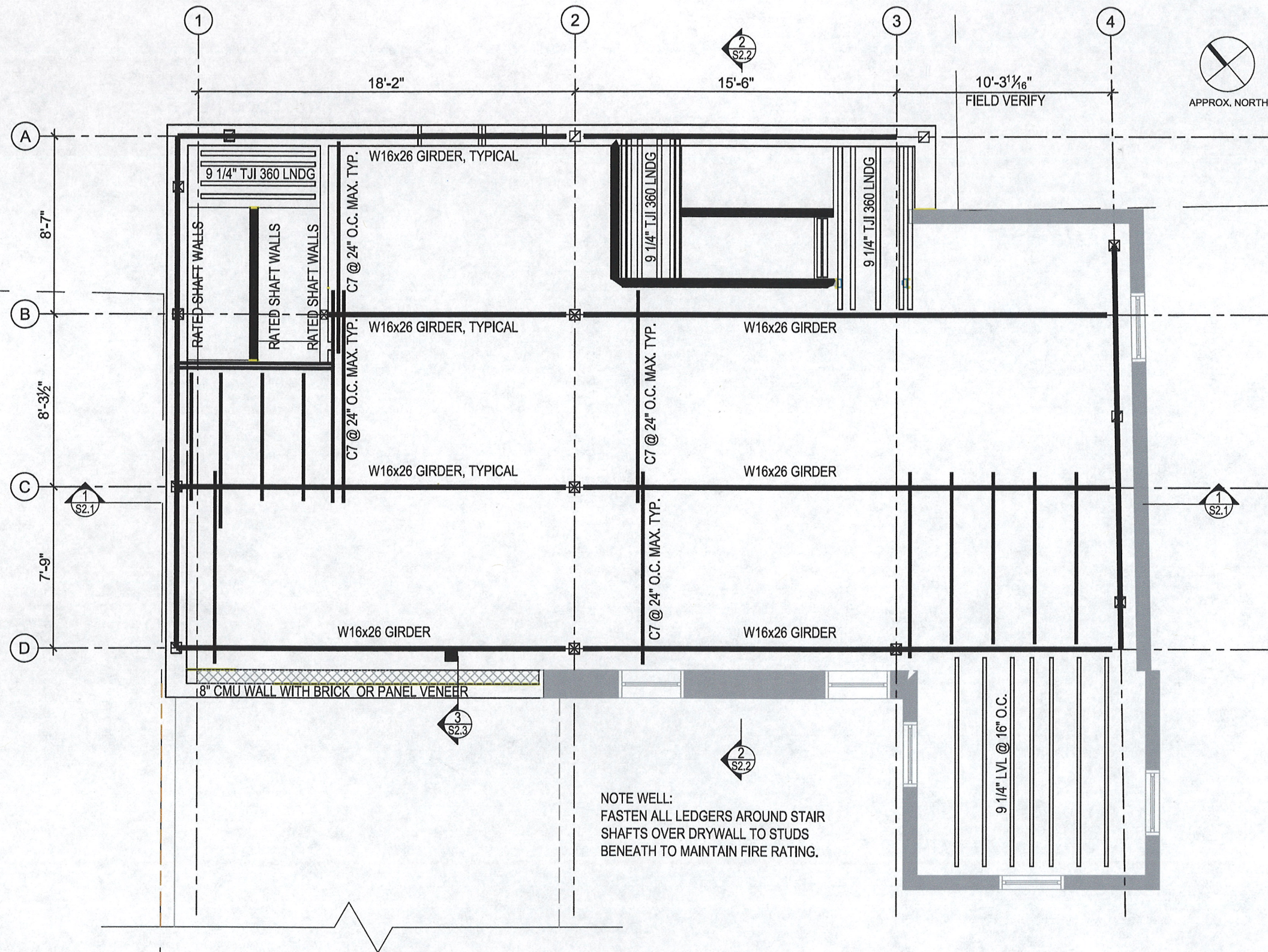
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 ALFRED H. HODSON III
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DRAWING NUMBER:
S1.3
 SHEET 4 OF 9



NOTE WELL:
 FASTEN ALL LEDGERS AROUND STAIR
 SHAFTS OVER DRYWALL TO STUDS
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3 THIRD FLOOR FRAMING PLAN
 3/16" = 1'-0"

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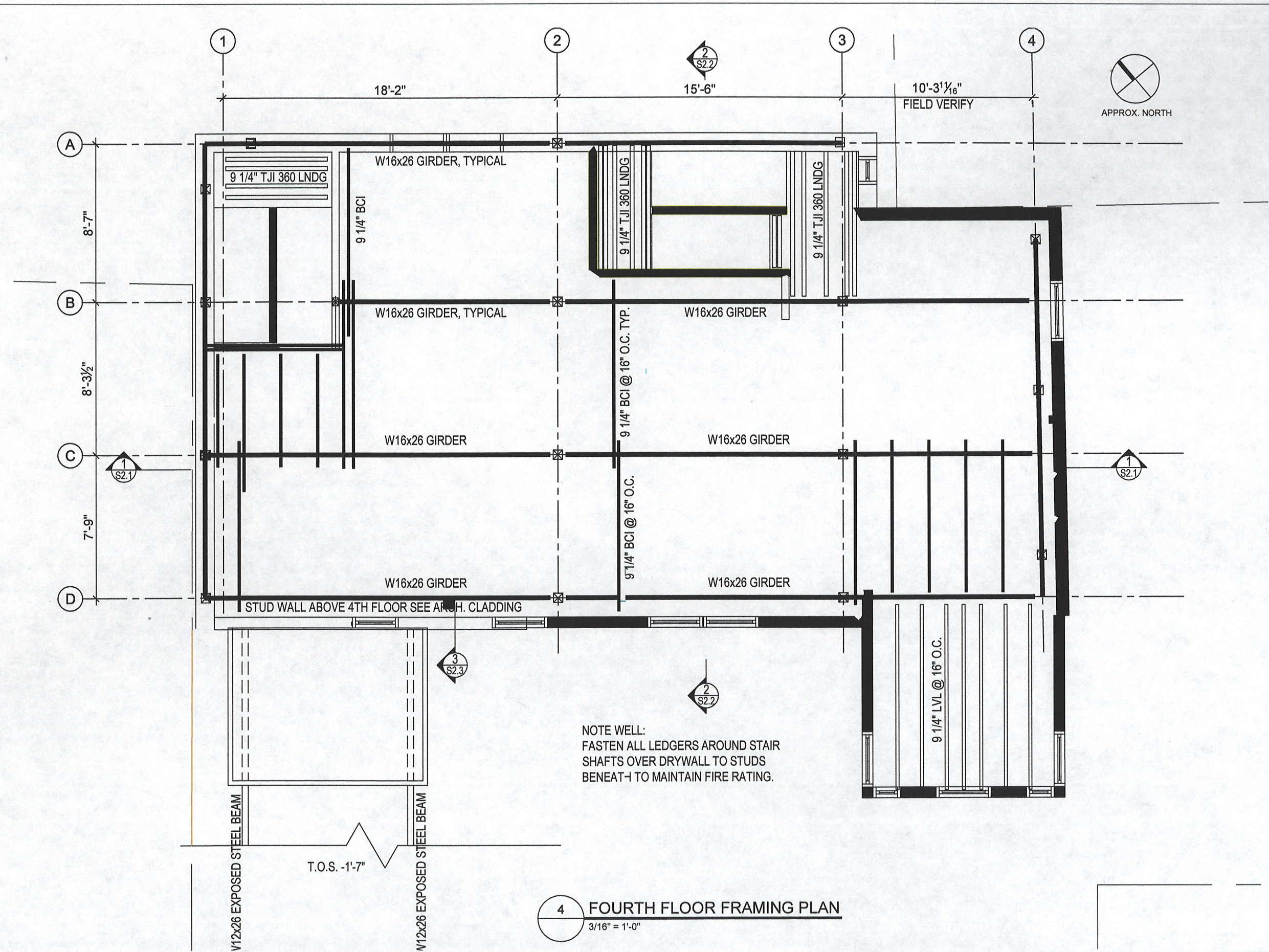
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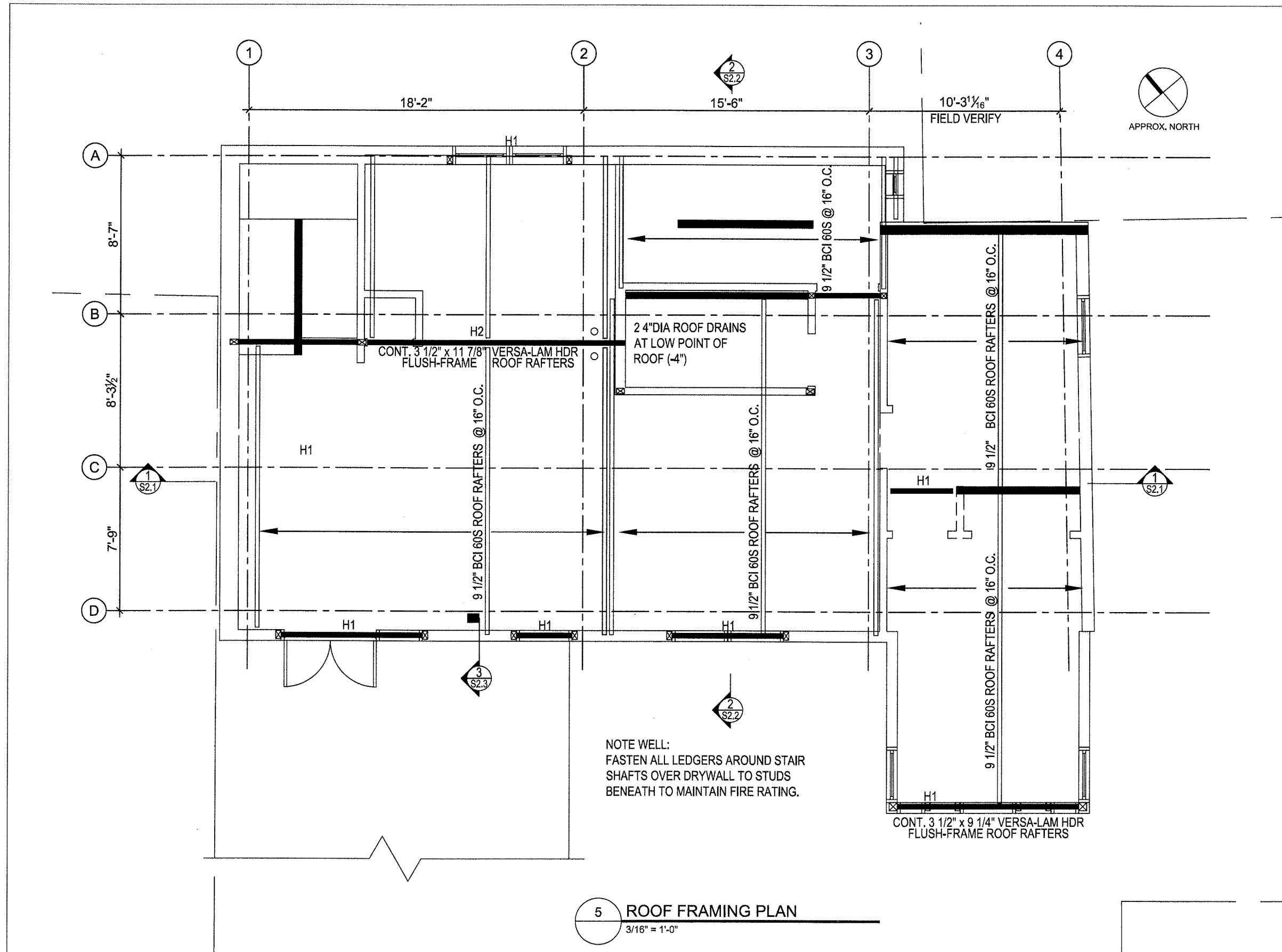
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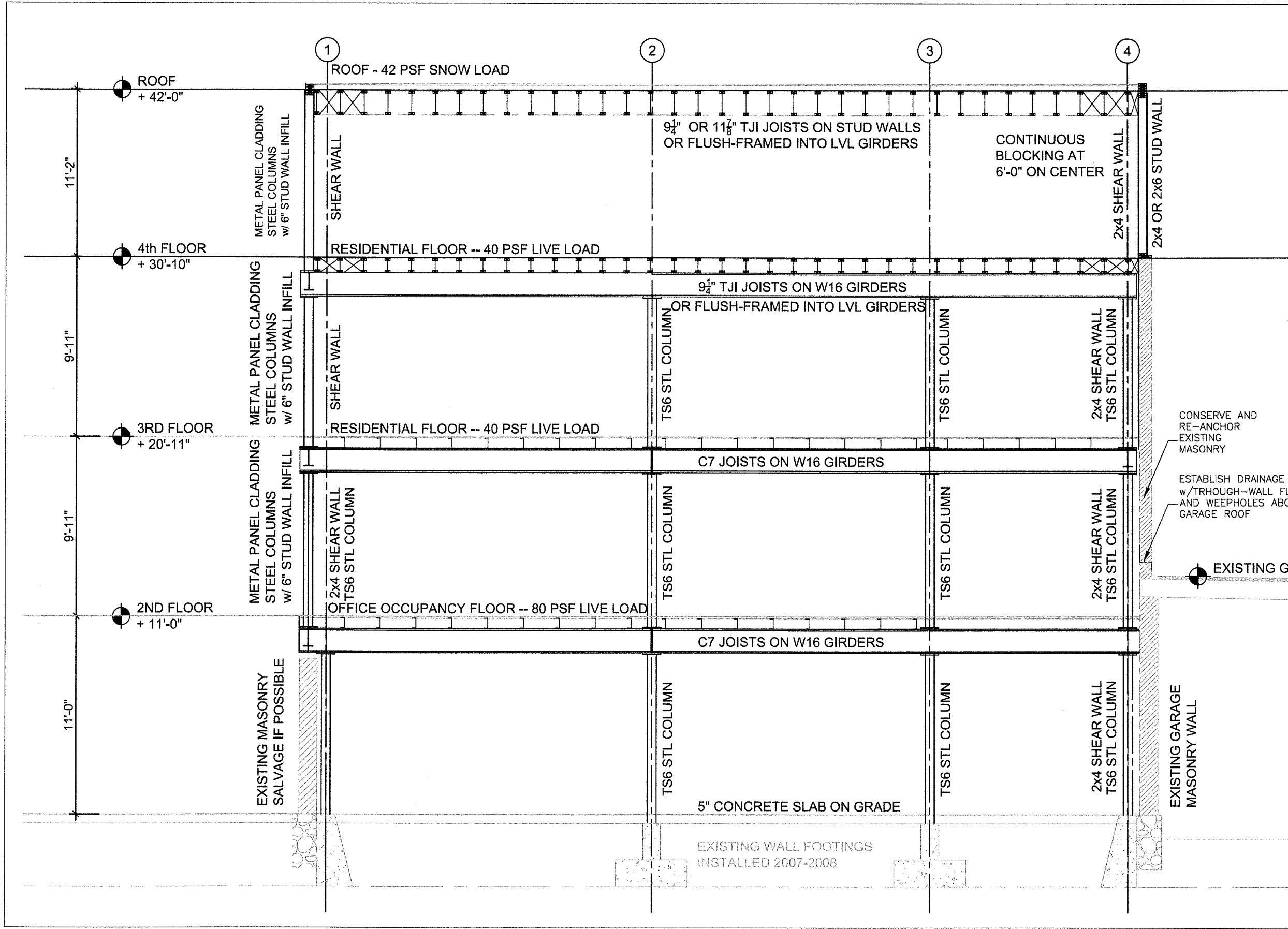
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1 "C" LINE SECTION
 3/16" = 1'-0"

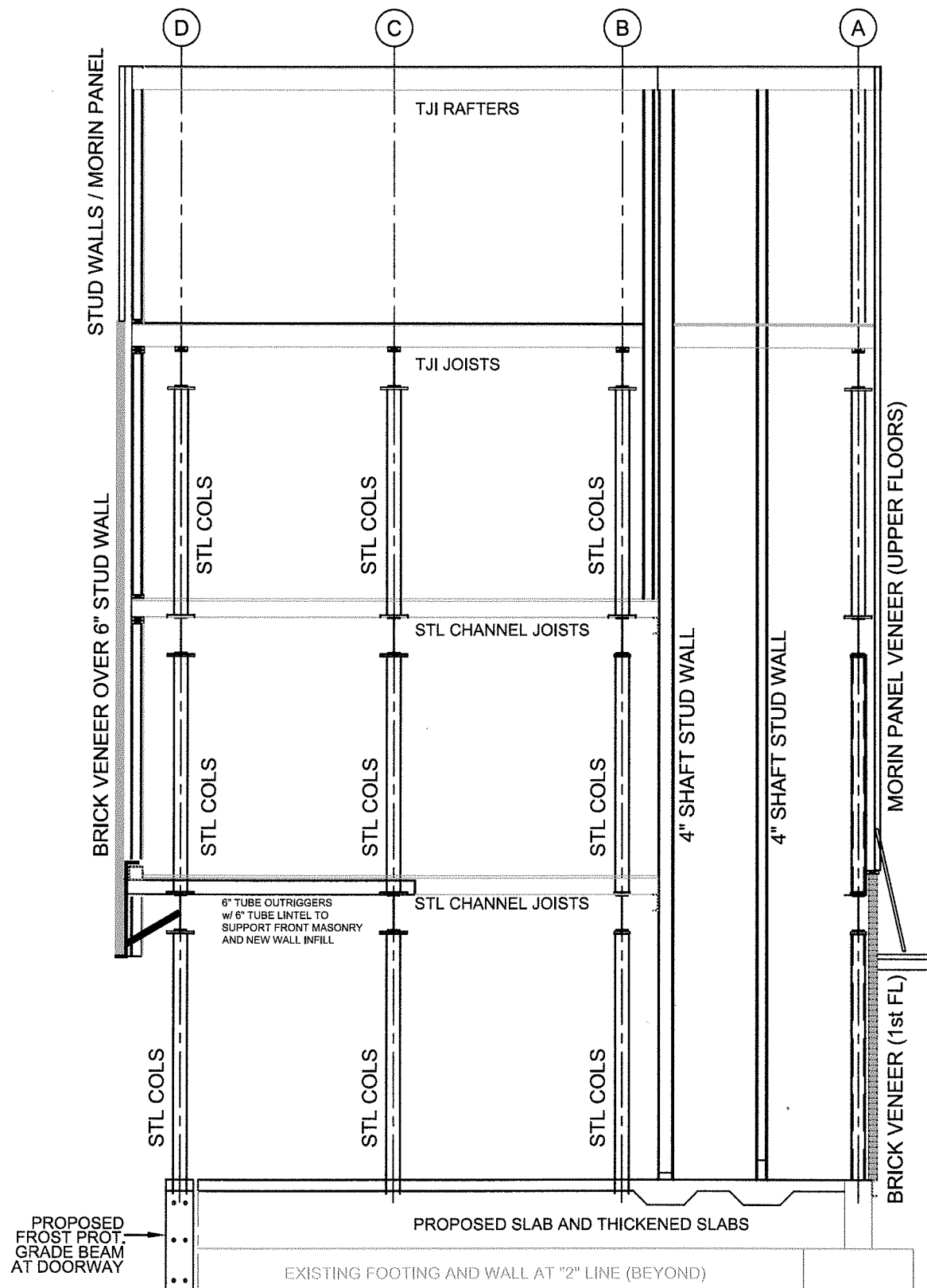
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S2.1
 SHEET 7 OF 9

ROOF
+ 42'-0"

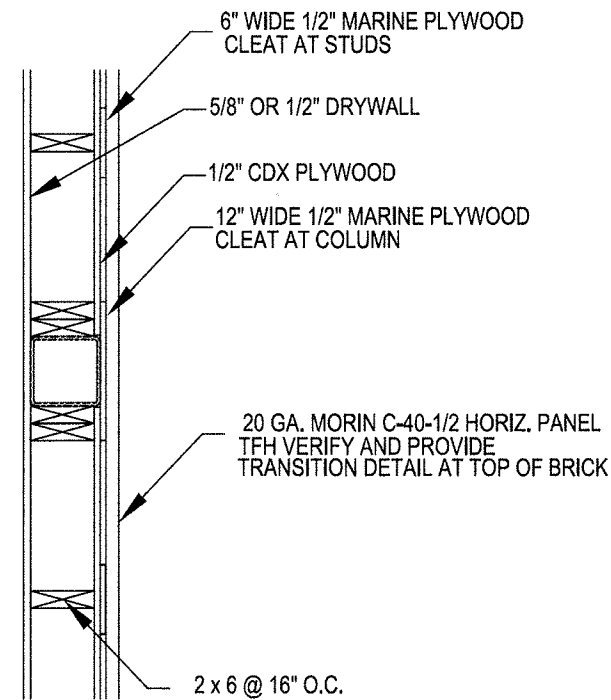
4th FLOOR
+ 30'-10"

3RD FLOOR
+ 20'-11"

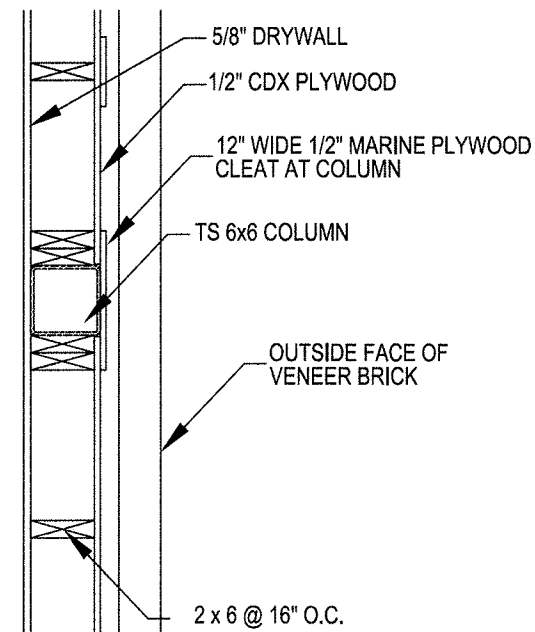
2ND FLOOR
+ 11'-0"



2 SECTION THROUGH BUILDING AT ARCHWAY
3/16" = 1'-0"



NEW BACK WALL AT UPPER FL.
PLAN VIEW

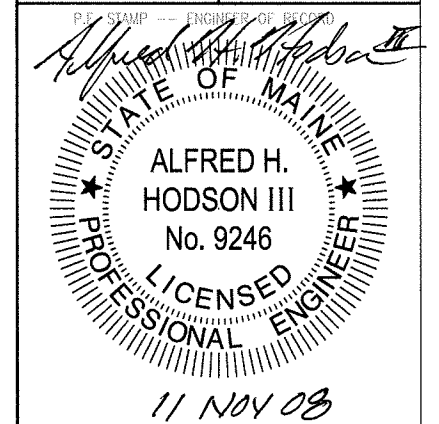


NEW BACK WALL AT 1ST FL.
PLAN VIEW

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SHEET 8 OF 9

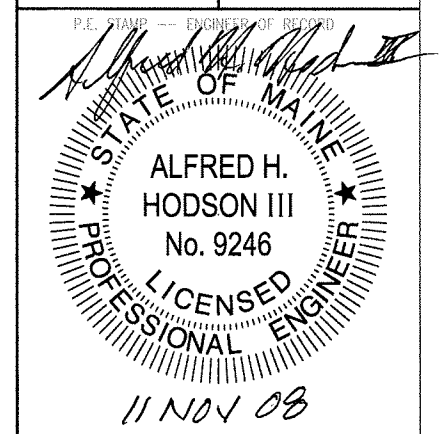
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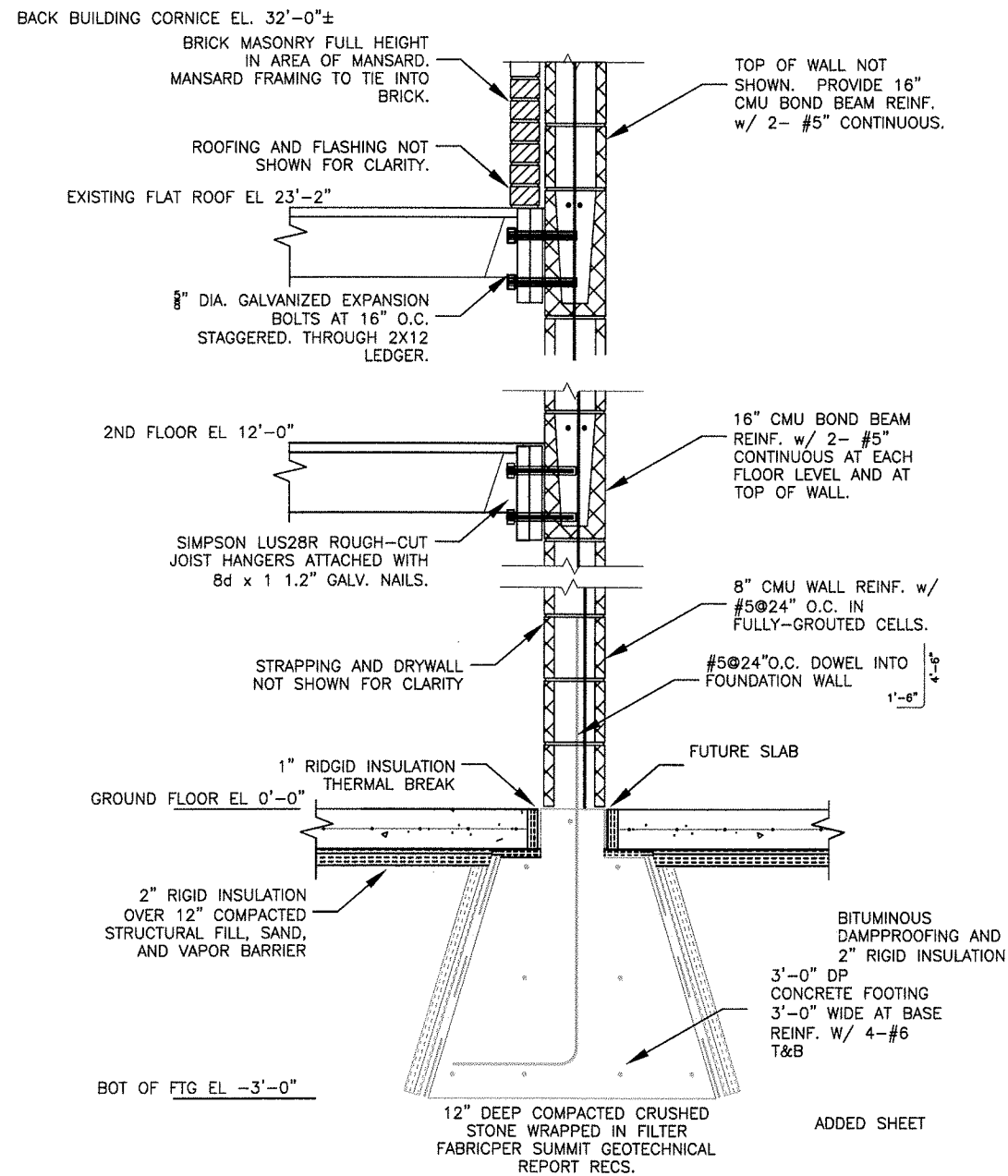
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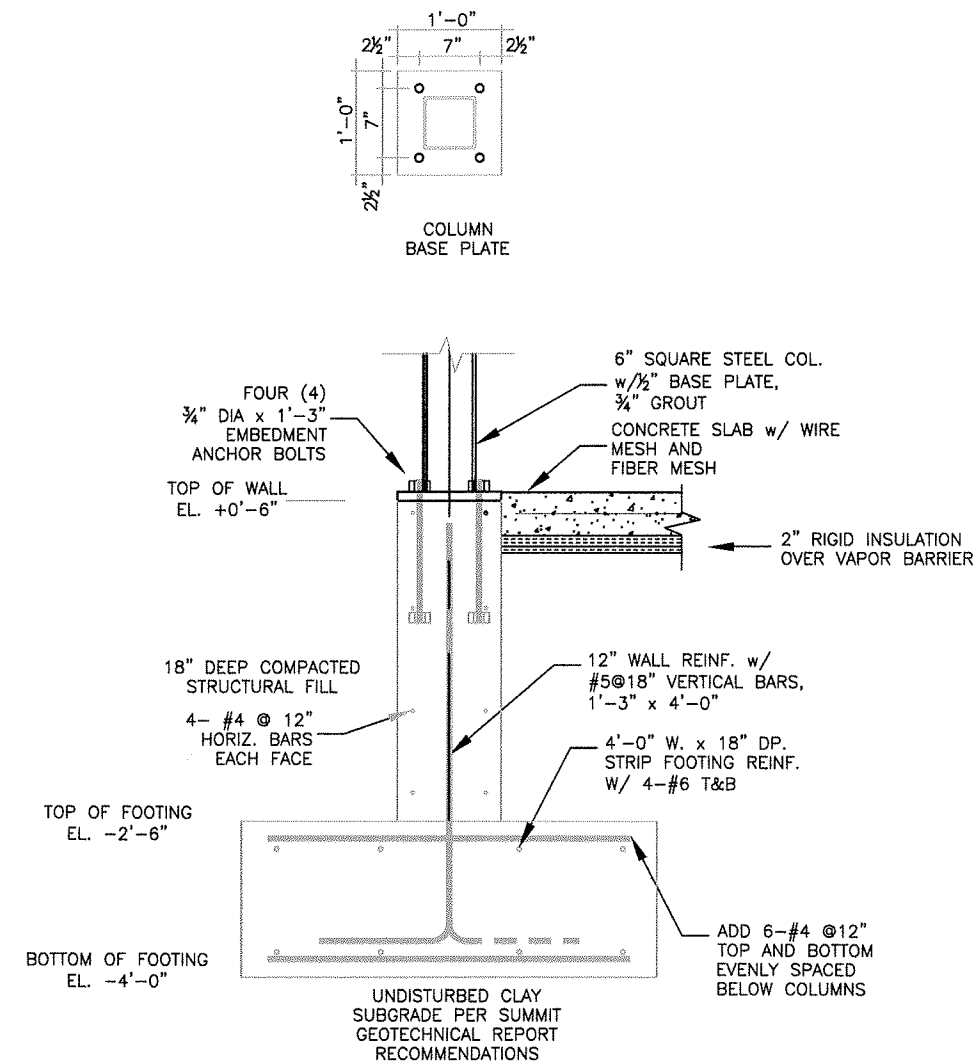


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3 SECTION THROUGH MASONRY FIREWALL
 3/4" = 1'-0" NOTE: FOOTING PLACED OCTOBER 2007



4 TYPICAL STRIP FOOTING
 3/4" = 1'-0" NOTE: FOOTING PLACED JAN 2008

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 SHEET 9 OF 9