

**GENERAL STRUCTURAL NOTES**

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO:
  - AISC 159 - STEEL CONSTRUCTION INSTITUTE
  - IBC 2009 - INTERNATIONAL BUILDING CODE 2009 IBC
  - ASCE 7-05 - MINIMUM DESIGN LOADS AND OTHER CRITICAL LOADS
  - ANSI/AIA/NAI/NOI-2005
2. DESIGN LOADS
- 2.1. GRAVITY ROOF DESIGN LOADS: 48 PSF BALANCED FLAT ROOF SNOW LOAD 20 PSF
- 2.2. LATERAL, WIND: V=90MPH, PER B.I=1.0, Kd=0.65, Kz=0.71, Kz1=1.0, Qp1=15.0 PSF, COMPONENTS AND CLADDING PRESSURES BASED ON ASCE 7-05 ROOF JOIST NET UPLIFT = 20PSF
- 2.3. LATERAL, SEISMIC: SDS=0.314, Sd1=0.25, I=1.0, SDC=II, R=1.5 (GMWA)

3. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS AND ALSO ANY CONDITIONS THAT PREVENT THE CONSTRUCTION OF THE WORK AS SHOWN ON THE CONSTRUCTION DRAWINGS.
4. ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
5. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ADDITIONAL SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS.
7. ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR (G.C.) AND ANY ENGINEER SHALL BE CONSIDERED TO BE THE ATTENTION OF THE ENGINEER AND SHALL BE RESPONSIBLE FOR VERIFYING THE AFFECTED PART OF THE WORK.
8. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON ANY DRAWING SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS.
9. ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND SHALL BE CONSIDERED UNRELIABLE UNTIL THE CONTRACTOR'S DIMENSIONAL REVIEW OF THE CONTRACTOR'S RESPONSE IS COMPLETE.

10. THE PROPOSED WORK IS CLASSIFIED AS A REPAIR TO TEST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING WORK AND SHALL BE RESPONSIBLE FOR NOTIFYING THE BUILDING TO ITS PRE-DAMAGED STATE USING SIMILAR CONSTRUCTION AND MATERIALS. ALL NEW STRUCTURAL ELEMENTS SHALL BE CONSIDERED AS NEW AND SHALL BE CONFORM WITH THE APPLICABLE SECTIONS OF THE 2009 IBC CODE.

**WOOD FRAMING NOTES**

1. STRUCTURAL LUMBER: NO. 2 SPRUCE-PINE-FIR OR BETTER - ALL DIMENSIONS PER 2009 IBC.
2. DESIGN CODES:
  - A. NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION BY THE NATIONAL FORESTRY PRODUCTS ASSOCIATION.
3. FASTENERS: COMPLY WITH RECOMMENDED FASTENING UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
4. ALL WAYS TO EXPOSED ROOFERS AND FT LUMBER TO BE 680 HOT DIPPED GALVANIZED 0.0270 OAK W/15. OK'S.
5. ALL SIMPSON PRODUCTS IN CONTACT WITH FT LUMBER TO BE 2"MAX (G.85 GALVANIZED) COATED.

**STRUCTURAL STEEL NOTES**

- PART 1 - GENERAL**
- 1.00 STANDARD SPECIFICATIONS
  - A. FABRICATION, ERECTION, AND WELDING IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY DESIGN AND PLASTIC DESIGN ADOPTED JUNE 1989, INCLUDING ALL PUBLISHED SUPPLEMENTS, A13.3.C.
  - B. WELDING IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, AWS D1.1, LATEST EDITION.
  - C. BOLTING OF STRUCTURAL JOINTS SHALL BE IN ACCORDANCE WITH AWS D3.08 OR AISC BOLT LATEST EDITION.

- 1.01 QUALIFICATIONS**
- A. WELDING PROCEDURES, WELDERS, WELDING OPERATIONS AND PERSONNEL QUALIFIED IN ACCORDANCE WITH AWS CODE.

- 1.02 SUBMITTALS**
- INTENTIONALLY LEFT BLANK

- 1.03 PRODUCT HANDLING**
- A. STORE STRUCTURAL STEEL MEMBERS AT THE PROJECT SITE ABOVE GROUND ON PATIFORMS, SKIDS, OR OTHER SUPPORTS.
  - B. PROTECT STEEL FROM CORROSION.

**PART 2 - PRODUCTS**

- 2.01 MATERIALS**
- A. STEEL W/ND SHAPES - AISC A992
  - B. STEEL PLATE - AISC A572 GR. 50
  - C. STRUCTURAL TUBES AND COLLARS - ASTM A500-46, GRADE B
  - D. STRUCTURAL PIPE - ASTM A53, TYPE E, GRADE B
  - E. STRUCTURAL BOLTS - 3/4" ASTM A325, TYPE 1 OR 2
  - F. ANCHOR BOLTS - ASTM A-307, GRADE A.
  - G. TENSORED ROD - ASTM A36.
  - H. ELECTRODES

**PART 3 - EXECUTION**

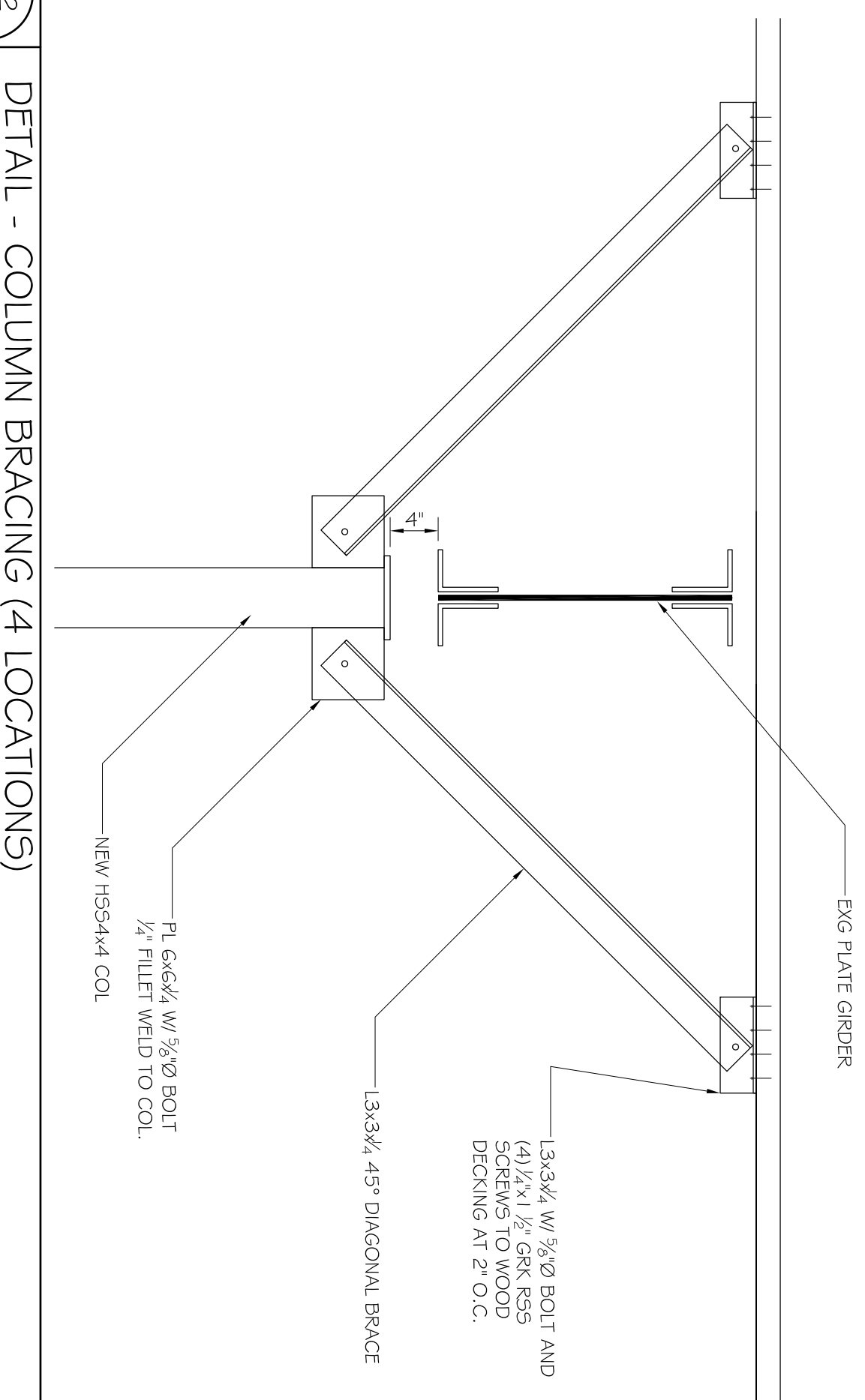
- 3.01 FABRICATION**
- A. FABRICATE STRUCTURAL STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND THIS SECTION OF THE SPECIFICATIONS.

**3.02 ERECTION**

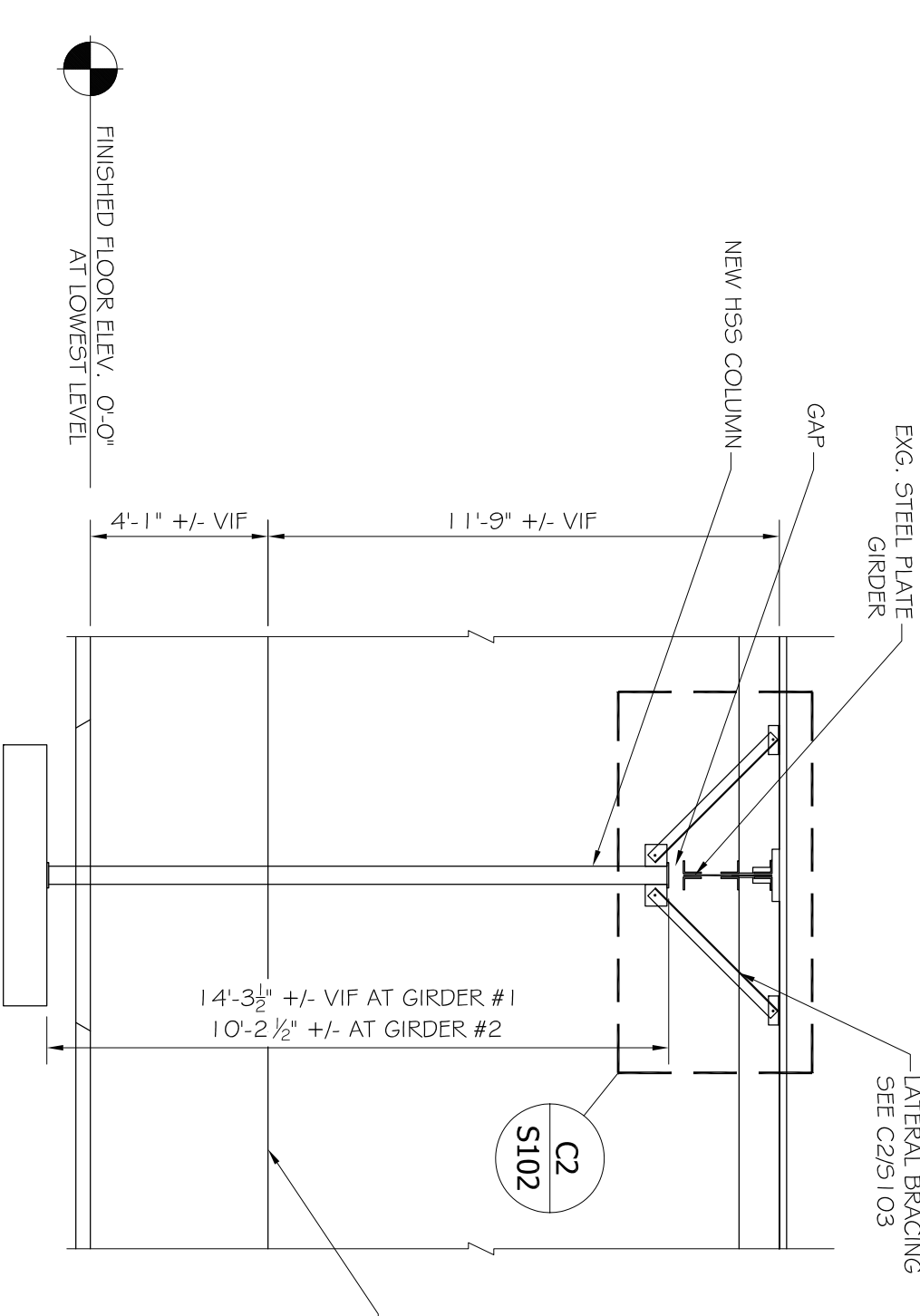
- A. THE STRUCTURAL METAL SHALL BE ERECTED PLUMB AND TRUE TO THE LINES AND EVALUATIONS INDICATED ON THE DRAWINGS.
- B. ERECTION TOLERANCES SHALL BE WITHIN THE LIMITS SPECIFIED IN SECTION 7.11 OF THE AWS CODE OF STANDARD PRACTICE.
- C. TEMPORARY CONNECTIONS SHALL BE ADEQUATE TO SAFELY SUPPORT ALL DEAD LOAD AND ERECTION IMPROD STRESSES.
- D. TEMPORARY BRACING SHALL BE PROVIDED WHERE NECESSARY TO HOLD THE STEEL IN A HORIZONTAL AND VERTICAL PLANE UNTIL PERMANENT BOLTING HAS BEEN COMPLETED.
- E. BOLTS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BROUGHT TO TIGHT CONDITION. ALL PILES OF BOLTS IN FULL CONTACT IN ACCORDANCE WITH SECTION OF THIS SPECIFICATION.
- F. PLACEMENT OF HOLES BY DRILLING WITH A TORCH SHALL NOT BE ALLOWED. ALL STEEL WITH BURST HOLE ENLARGEMENTS SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

**3.03 PAINTING**

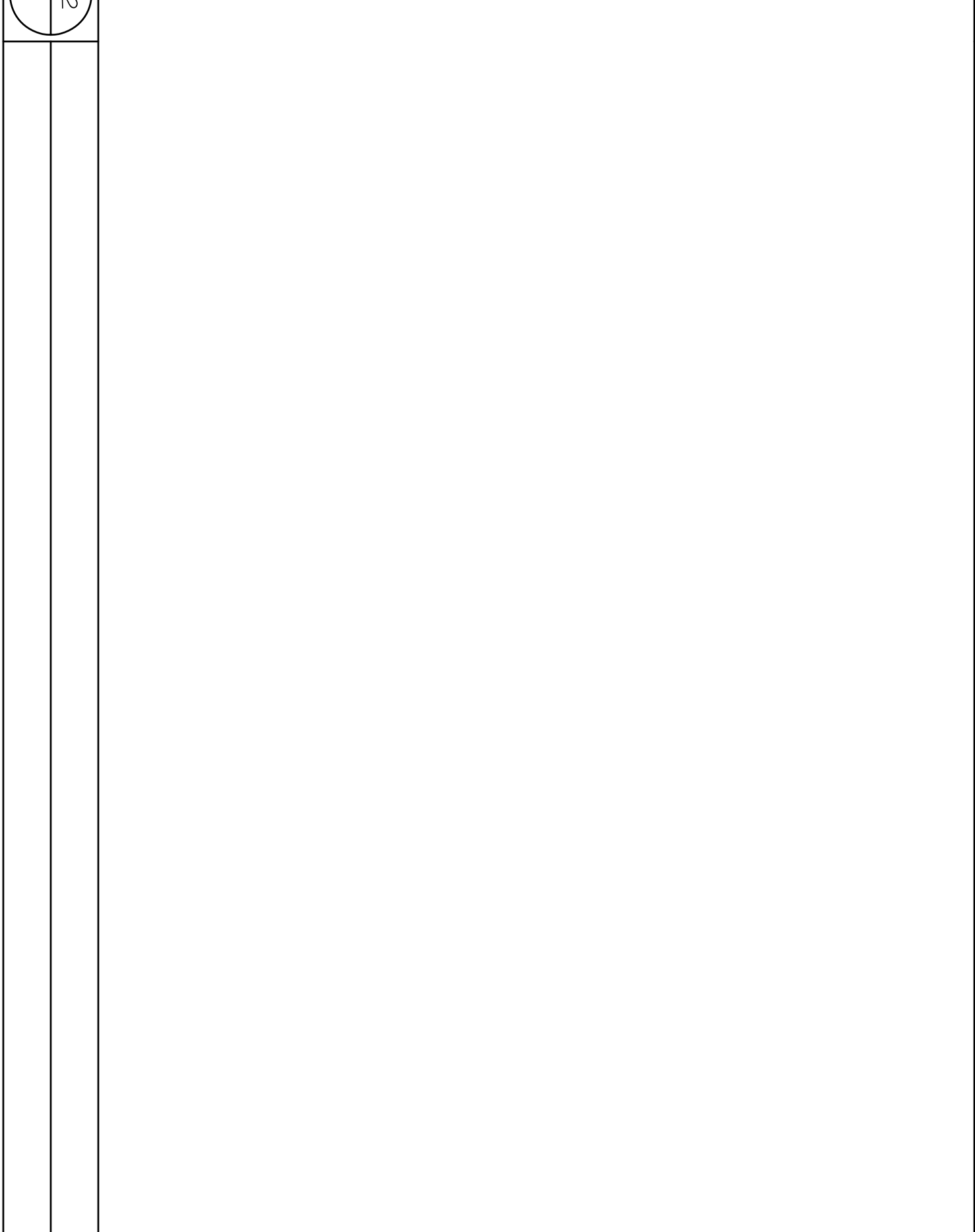
- A. SHOP PAINT PREPARED SURFACES OF ALL STEEL WORK WITH FABRICATORS STANDARD Rust Inhibitive Paint, MINIMUM 5.0 MIL THICKNESS, COMPATIBLE WITH BRST COAT.
- B. SURFACE PREPARE ALL FABRICATED STEEL TO RECEIVE SHOP PAINT, IDENTIFIED BY CONDITION OF PROTECTANT AT TIME OF PAINTING.



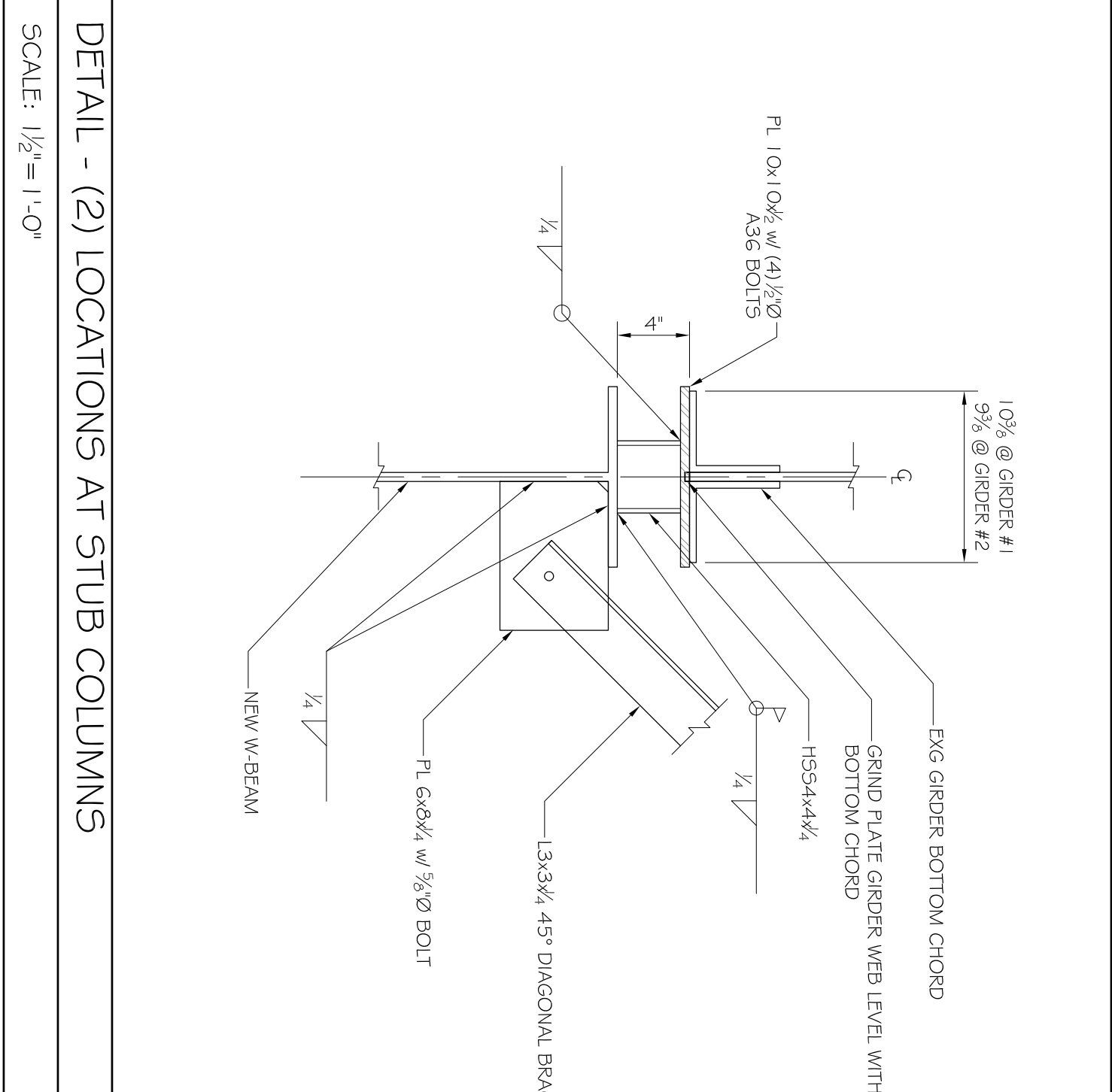
**DETAIL - COLUMN BRACING (4 LOCATIONS)**  
SCALE: 3/8" = 1'-0"



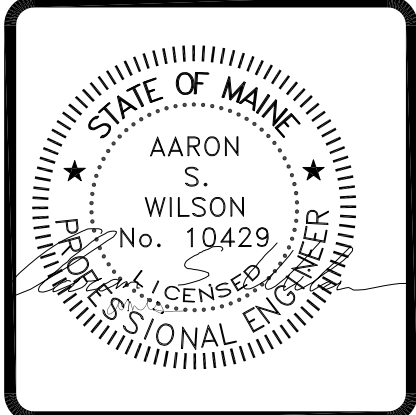
**SECTION AT NEW COLUMN (4 LOCATIONS)**  
SCALE: 1/4" = 1'-0"



**DETAIL - (2) LOCATIONS AT STUB COLUMNS**  
SCALE: 1/2" = 1'-0"



**DETAIL AT BEAM BRACING**  
SCALE: NTS



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PROPERTY OWNER:  
GILBERT COMBES  
141 PROSPECT STREET  
PORTLAND, ME 04103

**PROJECT: 52 CANCO RD. PORTLAND, MAINE**  
FOR:

SHEET TITLE:  
**DETAILS - CODE UPGRADES  
ISSUED FOR PERMITTING**

REVISIONS		DATE
No.	BY	DESCRIPTION

DATE: 4-6-15  
SCALE: AS NOTED  
DESIGN BY: ASW  
DRAWN BY: RSC  
FILE #: 15040-A101.DWG  
PROJECT NUMBER:  
**15040**  
SHEET NO.:  
**S102**