



# Building Permit Application

Howard County Maryland  
Department of Inspections, Licenses and Permits  
3430 Court House Drive  
Permits: 410-313-2455  
www.howardcountymd.gov

Date Received: NOV 17 2017 007 4 AM 8:48

Permit No.: B17-3648

Building Address: 5034-5036 Dorsey Hall Drive  
 City: Ellicott City State: MD Zip Code: 21044  
 Suite/Apt. # 105 SDP/WP/BA #: \_\_\_\_\_  
 Census Tract: \_\_\_\_\_ Subdivision: \_\_\_\_\_  
 Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: \_\_\_\_\_  
 Tax Map: \_\_\_\_\_ Parcel: \_\_\_\_\_ Grid: \_\_\_\_\_  
 Zoning: \_\_\_\_\_ Map Coordinates: \_\_\_\_\_ Lot Size: \_\_\_\_\_

Existing Use: B  
 Proposed Use: B  
 Estimated Construction Cost: \$ 10,000  
 Description of Work: Repair damaged floor trusses according to engineer specifications

Occupant/Tenant Name: Meyer and Anderson Dental  
 Was tenant space previously occupied?  Yes  No  
 Contact Name: Existing Tenant - See Property owner  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Property Owner's Name: Meyer and Anderson Dental  
 Address: 5036 Dorsey Hall Drive  
 City: Ellicott City State: MD Zip Code: 21042  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Applicant's Name & Mailing Address, (If other than stated herein)  
 Applicant's Name: Sheffield Construction - Christopher Haas  
 Address: 678 Ritchie Hwy  
 City: Severna Park State: MD Zip Code: 21146  
 Phone: 410 647-1185 Fax: \_\_\_\_\_  
 Email: chris@sheffieldconstruction.com

Contractor Company: Sheffield Construction Co  
 Contact Person: Christopher Haas  
 Address: 678 Ritchie Hwy  
 City: Severna Park State: MD Zip Code: 21146  
 License No.: 02109507  
 Phone: 410 647-1185 Fax: \_\_\_\_\_  
 Email: chris@sheffieldconstruction.com

Engineer/Architect Company: ETC  
 Responsible Design Prof.: Dylan St Leger  
 Address: 7165 Columbia Gateway Drive Suite B  
 City: Columbia State: MD Zip Code: 21045  
 Phone: 410 312-4761 Fax: \_\_\_\_\_  
 Email: dstleger@etc-web.com

Commercial Building Characteristics	Residential Building Characteristics
Height: _____	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories: <u>2</u>	Depth _____ Width _____
Gross area, sq. ft./floor: <u>2300</u>	1 <sup>st</sup> floor: _____
Area of construction (sq. ft.): <u>400</u>	2 <sup>nd</sup> floor: _____
Use group: <u>b</u>	Basement: _____
<u>Construction type:</u>	<input type="checkbox"/> Finished Basement
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade
<input checked="" type="checkbox"/> Wood Frame	No. of Bedrooms: _____
<input type="checkbox"/> State Certified Modular	<u>Multi-family Dwelling</u>
	No. of efficiency units: _____
	No. of 1 BR units: _____
	No. of 2 BR units: _____
	No. of 3 BR units: _____
	Other Structure: _____
	Dimensions: _____
<input type="checkbox"/> Roadside Tree Project Permit	Footings: _____
<input type="checkbox"/> Yes <input type="checkbox"/> No	Roof: _____
<input type="checkbox"/> Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities	
Electric:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Gas:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water Supply	
<input checked="" type="checkbox"/> Public	
<input type="checkbox"/> Private	
Sewage Disposal	
<input checked="" type="checkbox"/> Public	
<input type="checkbox"/> Private	
Heating System	
<input checked="" type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Grading Permit Number: _____	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Chris Haas  
 Email Address: chris@sheffieldconstruction.com  
 Title/Company: Project Manager

Print Name: Christopher Haas  
 Date: 10/16/17

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
\*\*PLEASE WRITE NEATLY & LEGIBLY\*\*

### FOR OFFICE USE ONLY

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>10/16/17</u>	<u>H. Oswald</u>

Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION	
Front:	
Rear:	
Side:	
Side St.:	
All minimum setbacks met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:	
SDP/Red-line approval date:	

Filing Fee	\$ <u>800.00</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub-Total Paid	\$
Balance Due	\$
Check	<u>#5781</u>

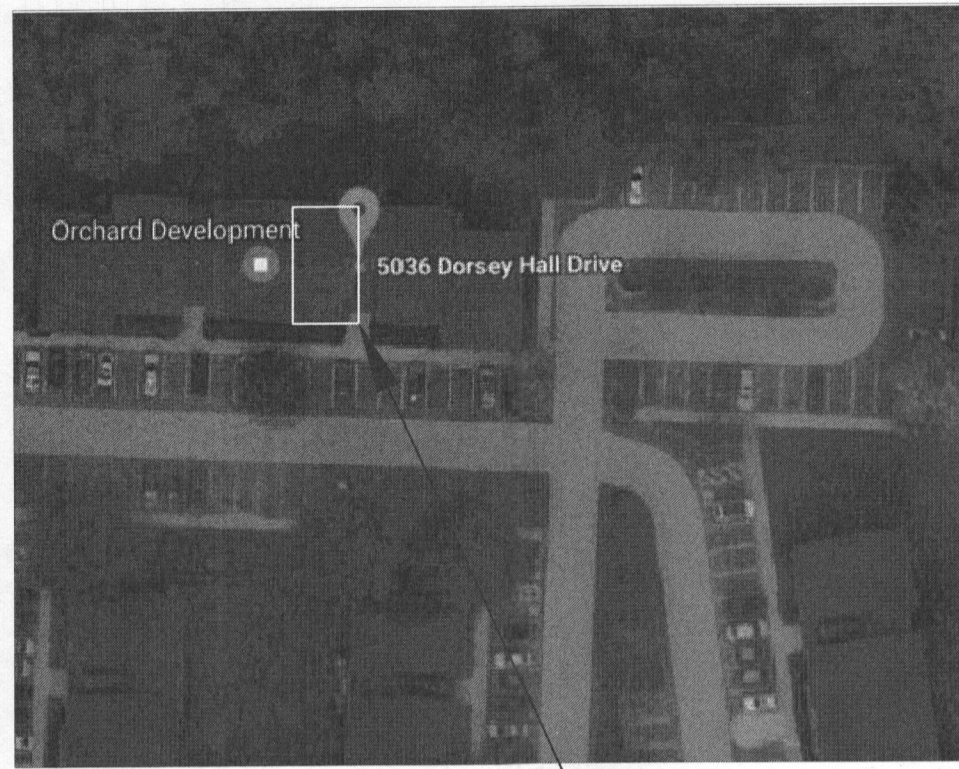
# MEYER & ANDERSON DENTAL

## COLUMBIA, MARYLAND

### FLOOR TRUSS REPAIR DESIGN

ETC PROJECT M7-3125

**SITE MAP:**



PROJECT  
LOCATION

**PROJECT DESCRIPTION**

PROPERTY OWNER: MEYER AND ANDERSON DENTAL  
5036 DORSEY HALL DRIVE, SUITE 105  
COLUMBIA, MARYLAND 21044

ADDRESS: 5034 DORSEY HALL DRIVE &  
5036 DORSEY HALL DRIVE, SUITE 105  
COLUMBIA, MARYLAND 21044

COUNTY: HOWARD

DISTRICT: 02

TAX MAP: 0030

SUBDIVISION: 0000

**CODE ANALYSIS**

CODE: IBC 2015  
IEBC 2015

OCCUPANCY GROUP: B

SEPARATED MIXED USED: N/A

# OF STORIES ABOVE GRADE: 2

UNIFORM LIVE LOAD: 100 PSF

GROUND SNOW LOAD: 20 PSF

BASIC WIND SPEED: 115 MPH

SEISMIC DESIGN CATEGORY: D

SITE CLASS: D

**LIST OF DRAWINGS:**

COVER PAGE ..... C-0  
 NOTES PAGE ..... C-1  
 TRUSS REPAIR PLAN..... R-1  
 TRUSS REPAIR DETAILS..... R-2

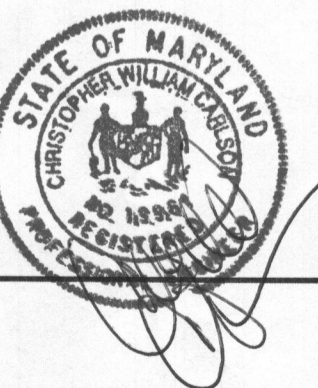
**NOTES:**

**SCOPE OF WORK:**

1. INSTALL TEMPORARY SHORING AND RIGGING TO SUPPORT AND JACK UP FLOOR TRUSSES IN REPAIR AREA TO LEVEL CONDITION, AS APPROVED BY THE ENGINEER.
2. PLACE PROTECTION OVER ALL INTERIOR SURFACES TO PREVENT DAMAGE AND CONTAIN DUST TO WORK AREA.
3. REMOVE AND DISPOSE OF OFFSITE, ALL DEBRIS INCLUDING 5/8" DRYWALL, FURRING CHANNEL, INSULATION AND DROP CEILING COMPONENTS
4. TEMPORARILY DISCONNECT, RELOCATE AND RECONNECT EXISTING ELECTRICAL, HVAC AND PLUMBING EQUIPMENT AS REQUIRED TO PERFORM THE WORK.
5. INSTALL NEW 2X4 SPLICES AT ALL TRUSSES WITH RUPTURED BOTTOM CHORD GUSSET PLATES AS INDICATED ON DRAWING R-1 AND IN ACCORDANCE WITH DETAILS 1 & 2 /R-2.
5. INSTALL NEW 2X4 SPLICES AT ALL DOUBLE TRUSSES WITH RUPTURED BOTTOM CHORD GUSSET PLATES AS INDICATED ON DRAWING R-1 AND IN ACCORDANCE WITH DETAILS 6 & 7 /R-2.
6. INSTALL PLYWOOD REPAIR PLATES AT DEFECTIVE/DISPLACED EXISTING STEEL GUSSET PLATE CONNECTIONS AND AT CRACKED DIAGONAL MEMBERS, AS INDICATED ON 1/R-1 AND IN ACCORDANCE WITH DETAILS 6 & 7/R-2.
7. INSTALL NEW DRYWALL AND ASSOCIATED COMPONENTS (INSULATION, FURRING CHANNEL, DRYWALL, TAPE AND JOINT COMPOUND, ETC.), IN REPAIR AREA, IN ACCORDANCE WITH INDUSTRY STANDARDS.
8. INSTALL NEW DROP CEILING AND ASSOCIATED COMPONENTS IN KIND, (IN REPAIR AREA) IN ACCORDANCE WITH INDUSTRY STANDARDS.
9. REMOVE TEMPORARY SHORING AFTER ALL STRUCTURAL REPAIRS ARE COMPLETE.
10. CLEAN WORK AREA OF CONSTRUCTION DEBRIS AND DUST AT COMPLETION OF PROJECT.

**RECEIVED**  
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 DIVISION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 19961, EXPIRATION DATE: 02/27/2019



5036 DORSEY HALL DRIVE, SUITE 105  
COLUMBIA, MARYLAND

MEYER & ANDERSON DENTAL  
5036 DORSEY HALL DRIVE, SUITE 105  
COLUMBIA, MARYLAND

COVER PAGE

REV	DATE
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**ETC**  
 Engineering and Technical Consultants, Inc.  
 7165 Columbia Gateway Drive, Suite B, Columbia, Maryland 21046  
 410.312.4761 410.312.0462

SCALE: AS NOTED PROJECT NO. M7-3125 DATE: 07/03/17  
 APPROVED BY: CHRISTOPHER W. CARLSON, P.E. DRAWING NUMBER  
 DRAWN BY: DJS C-0

**STRUCTURAL NOTES**

CODE: International Building Code – 2015  
 International Existing Building Code – 2015

**GENERAL**

1. Provide all labor, material, equipment and miscellaneous items including but not limited to clips, inserts, ties, anchor straps, hangers, bolts, and other fasteners required to complete the work.
2. All field measurements must be verified by the Contractor before starting work and/or ordering materials. Any discrepancy shall be brought to the attention of the Engineer.
3. The Contractor shall be solely responsible for site safety, and the stability of all new, temporary, and existing structures, walls, slabs, etc. during the construction phase.

**EXISTING CONDITIONS**

1. The drawings may reflect information provided by others and/or existing conditions that have been surveyed and/or documented to the greatest possible extent but not verified. It shall be the Contractor's responsibility to fully coordinate the work, including, but not necessarily limited to, the verification of all existing conditions shown in the drawings, coordination of all necessary building trades, etc. Any and all conditions that are mis-represented in these documents, or any conditions that are not shown but warrant the attention of the Engineer, shall be immediately brought to the attention of the Engineer.
2. Means and methods of construction and temporary shoring and bracing of the existing structure(s) are the sole responsibility of the Contractor. The Engineer may include phasing, sequencing, shoring requirements, etc. in the Construction Documents to alert, assist, or otherwise dictate procedural requirements that may be necessary to properly implement the structural portion of the work or that may be required to insure building stability; however, the Contractor shall properly coordinate these requirements and shall remain completely and solely responsible for erecting the building structure in a safe and timely manner.
3. Unless otherwise indicated, it has been assumed that the existing structure(s) are in serviceable condition. The Contractor shall immediately notify the Engineer of any and all areas of structural distress (including, but not limited to, cracks, spalling, etc.) not indicated in the Structural Drawings. The Contractor shall not proceed with work in such areas without direction from the Engineer.
4. The Contractor is to provide all necessary shoring to perform the work, as designed by a registered professional engineer in the State of Maryland. The Contractor is to submit shoring design and calculations to Engineer for approval.
5. The Contractor is to jack up existing displaced members to be re-used as required to obtain a level, plumb and square structure.
6. All dimensions indicated on drawings shall be field verified by the Contractor prior to shop fabrication of any materials. All existing conditions and members indicated on drawings shall be field verified by contractor prior to starting work. Any discrepancies shall be immediately brought to the attention of the Engineer.

**WOOD FRAMING**

1. Dimensional lumber for truss repairs shall be Southern Pine No.1 dense or equal with the following minimum properties: Fb = 2000 psi; E = 1,800,000 psi; Fc = 2000 psi.
2. Plywood sheathing for truss repairs shall be 1" thick minimum and be structural 1, stress grade S-3.
3. Lumber in contact with masonry or concrete shall be pressure treated against decay.
4. Provide approved heavy duty framing anchors at all double truss bottom chord repairs as manufactured by TECO, Simpson, etc.
5. Framing lumber shall have 19% maximum moisture content.

**DRYWALL CEILING COMPONENTS**

1. Gypsum Board Products shall be Fire-Resistive Rated Assemblies of 5/8 inch thick, UL labeled, conforming to ICC ES Report for Type C and, conforming to the general provisions of ASTM C1396.
  - 1.1. Wall board shall be USG Sheetrock® Brand Firecode® C Gypsum Panels, Manufactured by United States Gypsum (USG), or equivalent, and installed in accordance with manufacturer's recommendations.
2. Drywall tape shall be USG Sheetrock® Brand Paper Joint Tape manufactured by USG, or equivalent, and installed in accordance with manufacturer's recommendations.
3. Drywall joint compound shall be USG Sheetrock® Brand All Purpose Joint Compound manufactured by USG, or equivalent, and installed in accordance with manufacturer's recommendations and the specifications.
4. Furring channel shall be formed of No. 25 MSG Galvanized steel and installed in accordance with manufacturer's recommendations and the specifications.
5. Steel wire ties shall be formed of No. 18 SWG Galvanized steel and installed in accordance with manufacturer's recommendations and the specifications.
6. Drywall Screws shall be 1 in. long, Type S ,9/64 in. diameter, self-drilling, self-tapping and, bugle head and installed in accordance with manufacturer's recommendations and the specifications.

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5036 DORSEY HALL DRIVE, SUITE 105  
 COLUMBIA, MARYLAND

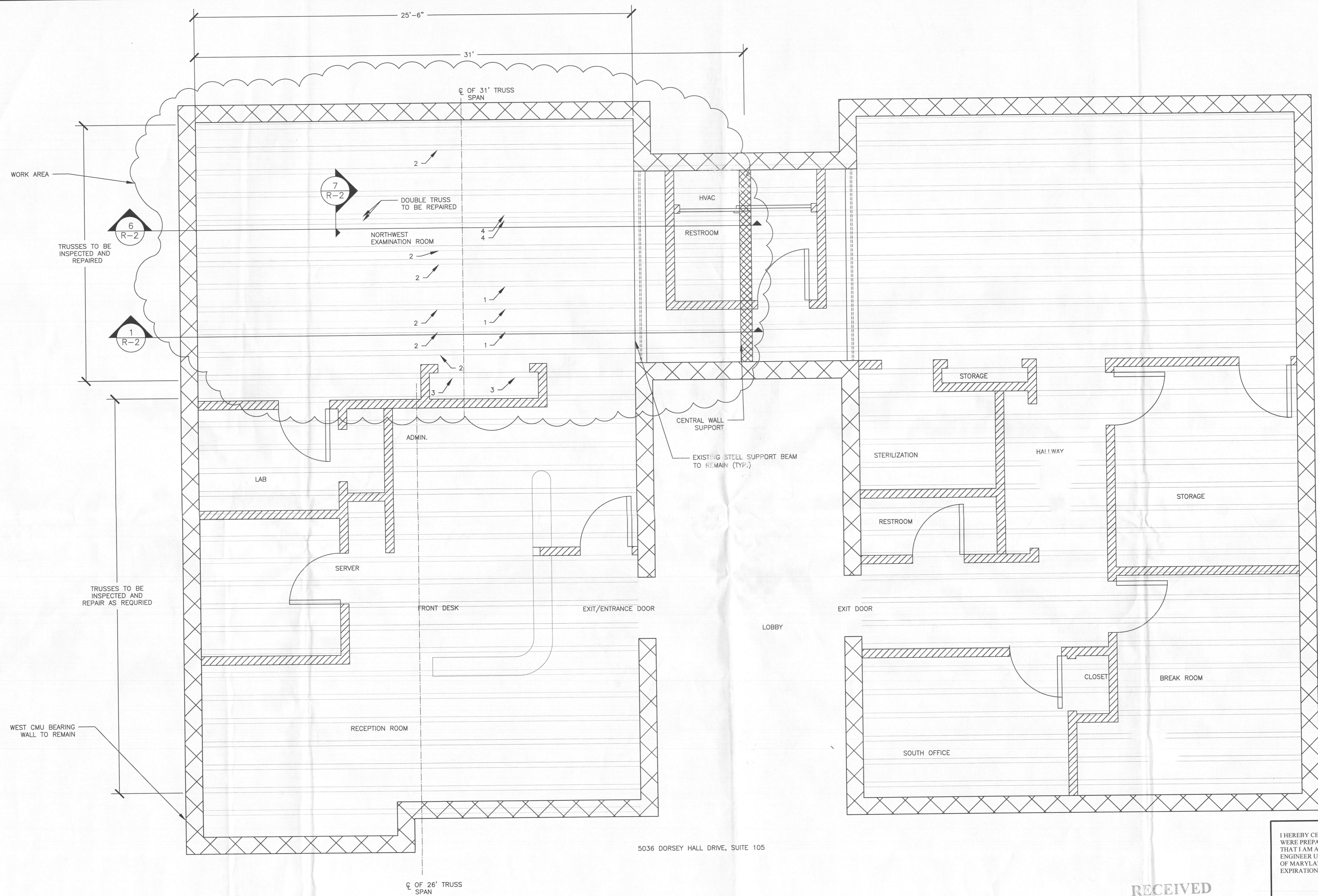
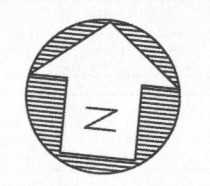
MEYER & ANDERSON DENTAL  
 5036 DORSEY HALL DRIVE, SUITE 105  
 COLUMBIA, MARYLAND

NOTES PAGE

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SCALE: AS NOTED PROJECT NO. M7-3125 DATE: 07/03/17  
 APPROVED BY: CHRISTOPHER W. CARLSON, P.E. DRAWING NUMBER  
 DRAWN BY: DJS C-1



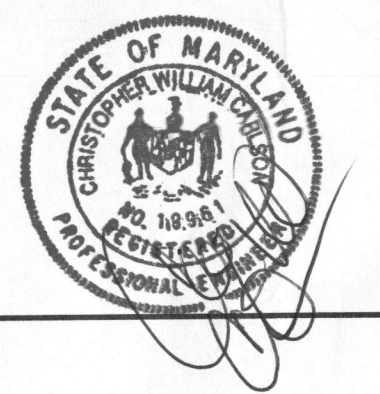
- LEGEND:
- 1 = FAILED GUSSET PLATE AT BOTTOM TRUSS CHORD. SEE 1 & 2/R-2 FOR REPAIR DETAILS.
  - 2 = DAMAGED VERTICAL 2X4-TO-TOP CHORD GUSSET PLATE. SEE 3/R-2 FOR REPAIR DETAILS.
  - 3 = CRACK IN DIAGONAL TRUSS MEMBER. SEE 4/R-2 FOR REPAIR DETAILS.
  - 4 = FAILED GUSSET PLATE AT BOTTOM CHORD OF DOUBLE TRUSS. SEE 6 & 7/R-2 FOR REPAIR DETAILS.

5036 DORSEY HALL DRIVE, SUITE 105

1 REPAIR PLAN-EXISTING FLOOR TRUSSES  
R-1 SCALE: 3/8" = 1'-0"

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COLUMBIA, MARYLAND

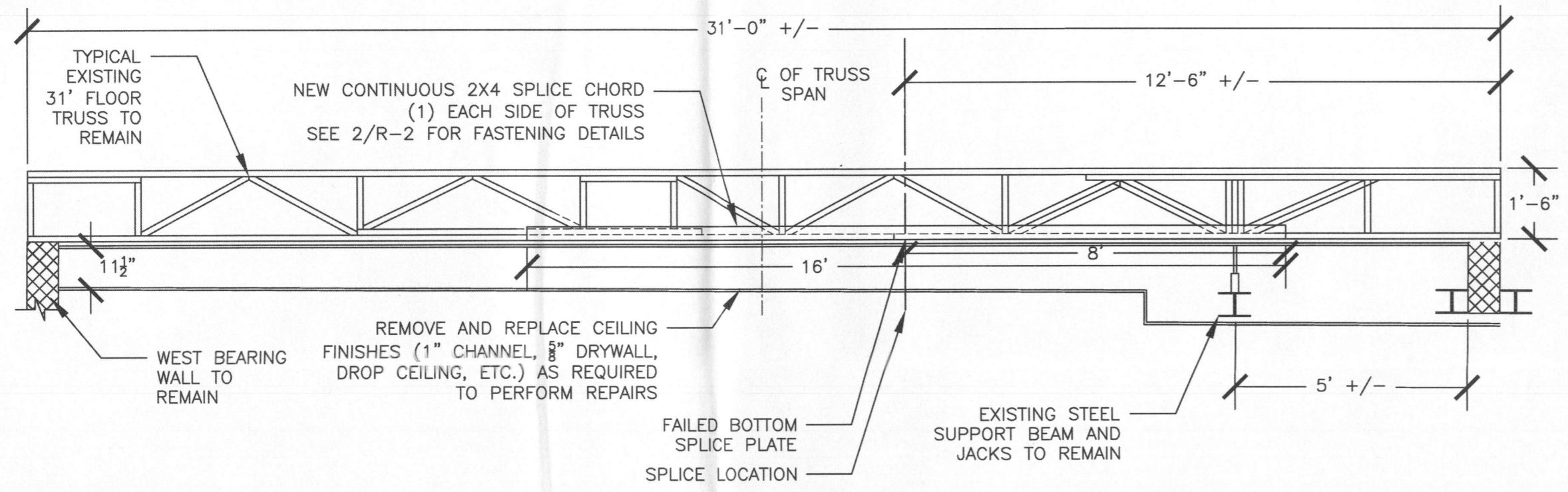
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COLUMBIA, MARYLAND

TRUSS REPAIR PLAN

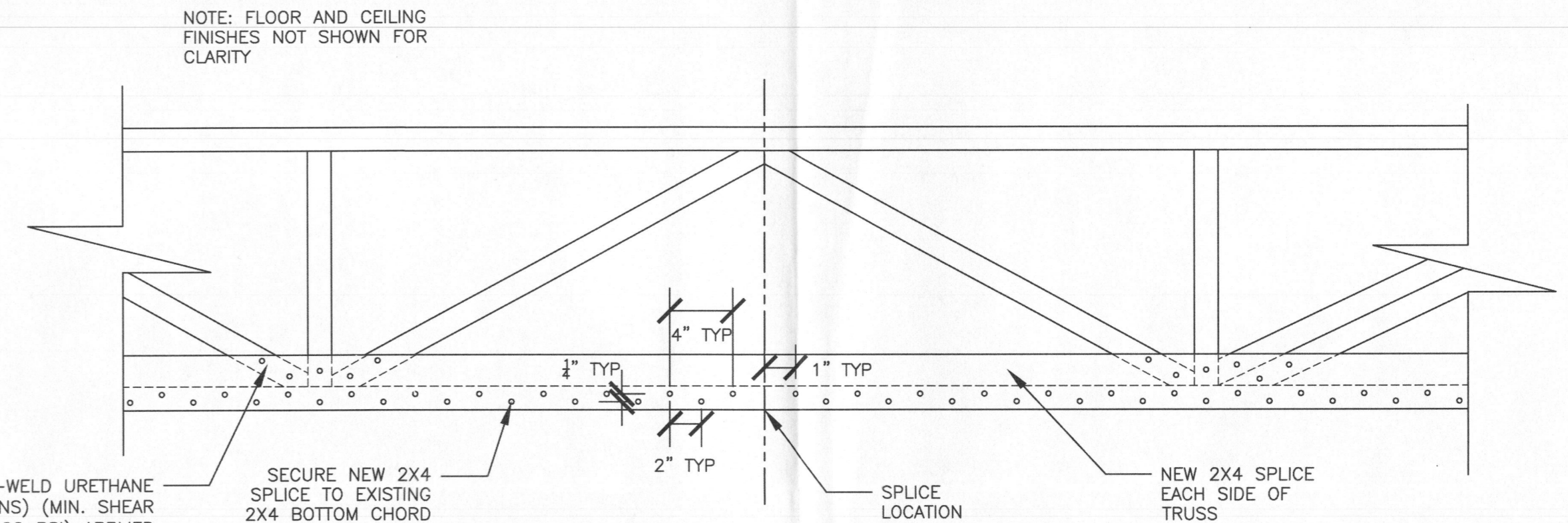
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**ETC**  
Engineering and Technical Consultants, Inc.  
7165 Columbia Gateway Drive, Suite B, Columbia, Maryland 21046  
410.312.4751 410.312.0482

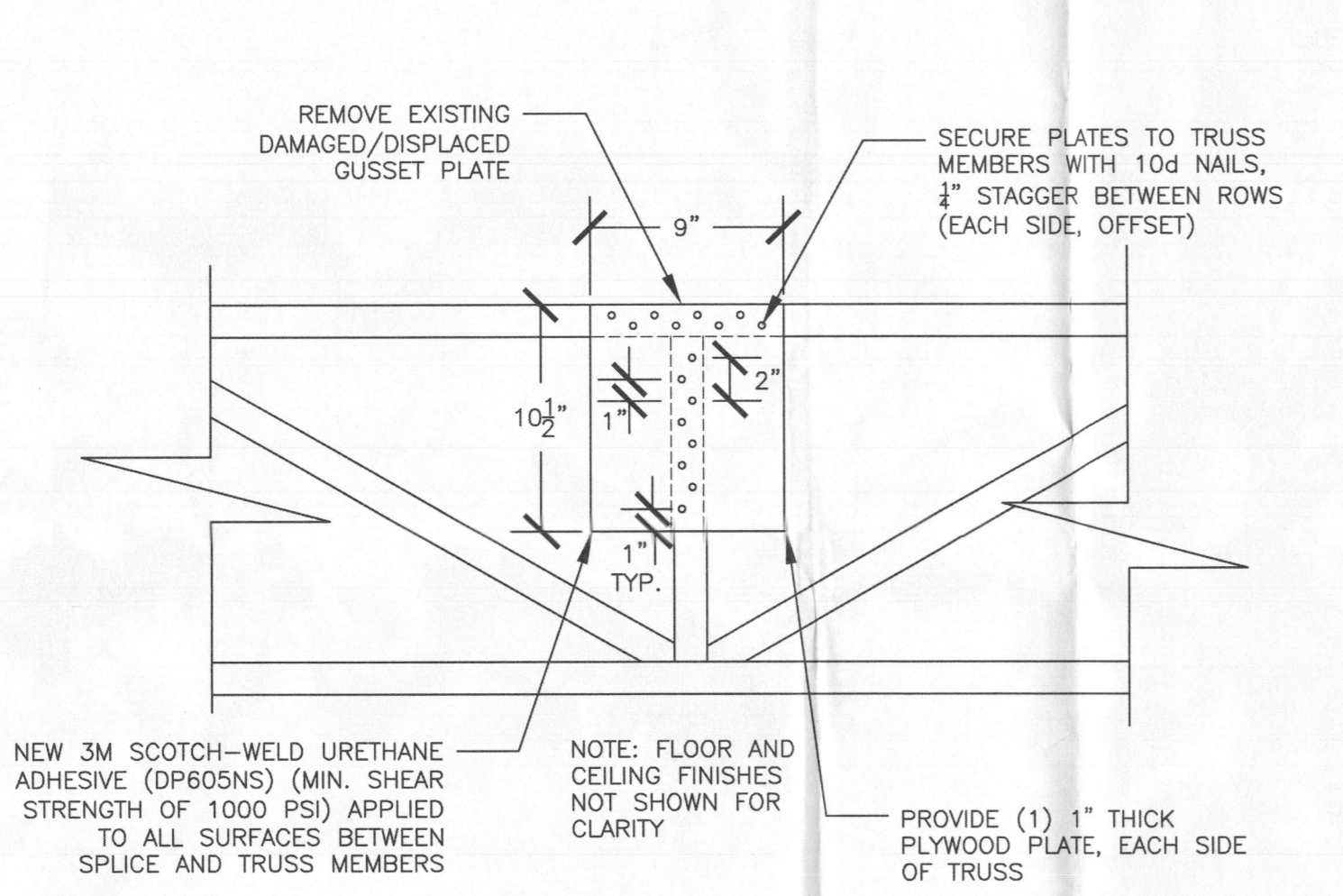
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APPROVED BY: CHRISTOPHER W. CARLSON, P.E. DRAWING NUMBER  
DRAWN BY: DJS R-1



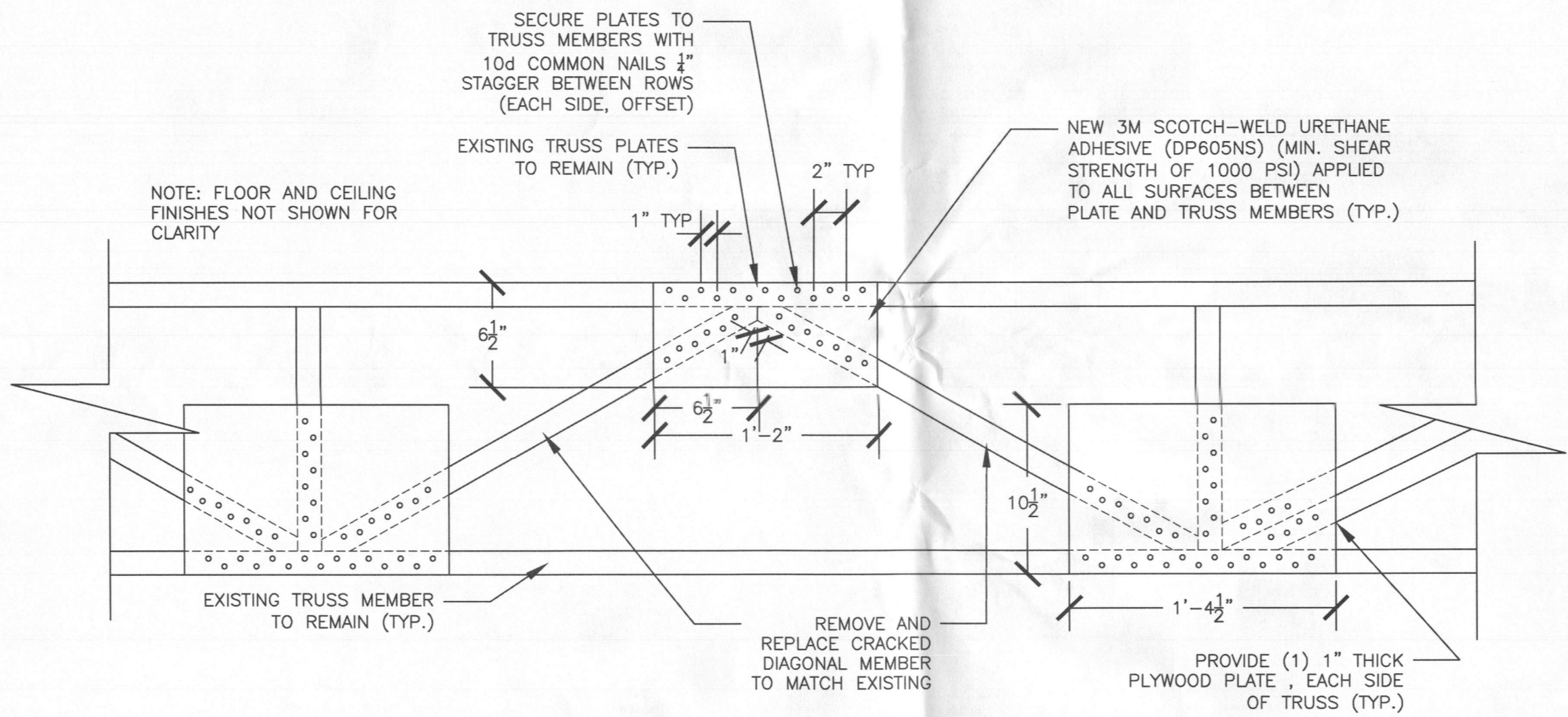
1 TYPICAL 31' TRUSS STRENGTHENING  
R-2 DETAILS SCALE: 3/8"=1'-0"



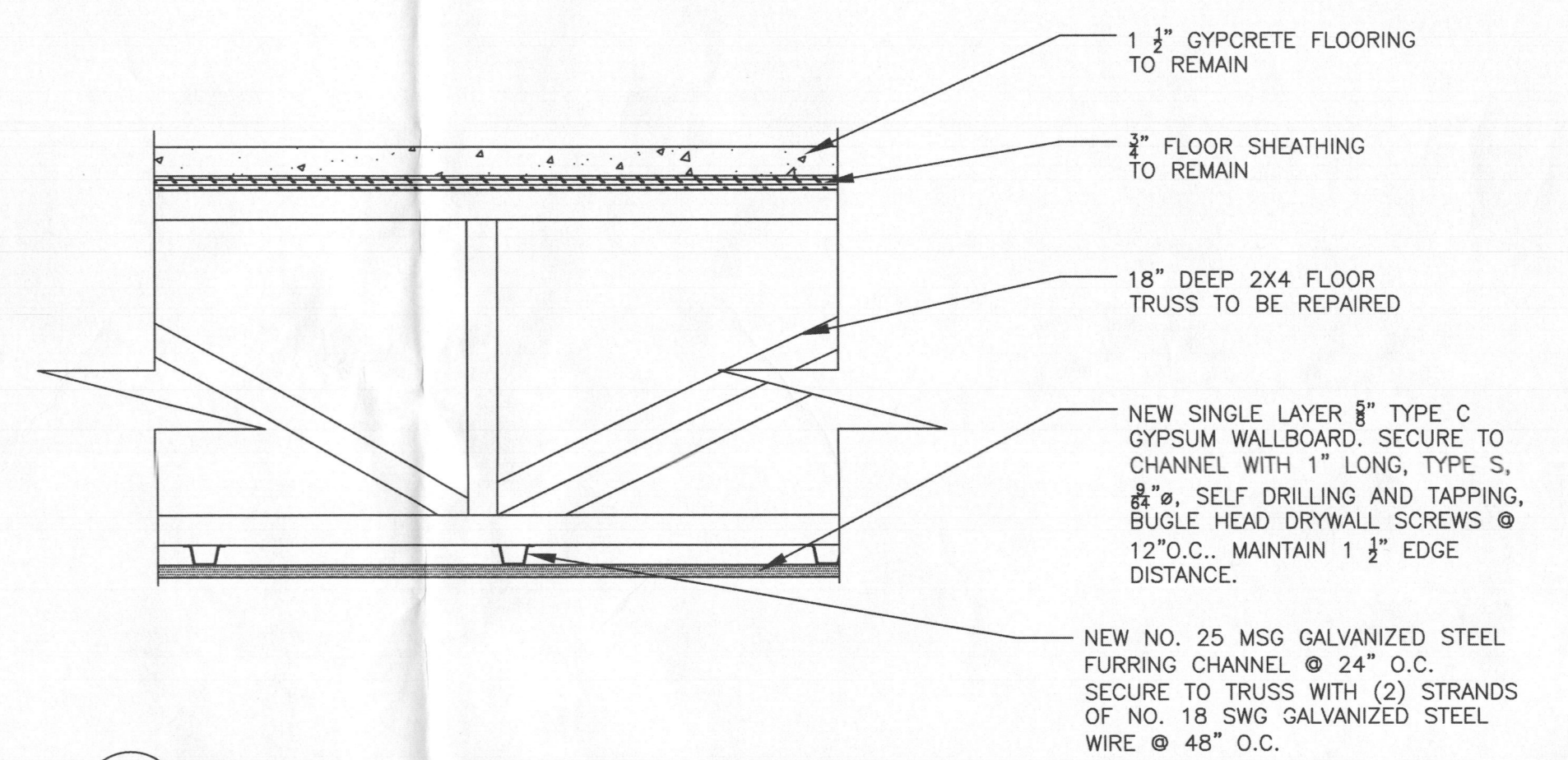
2 LOWER CHORD SPLICE PLATE FASTENING DETAILS  
R-2 SCALE: 1 1/2"=1'-0"



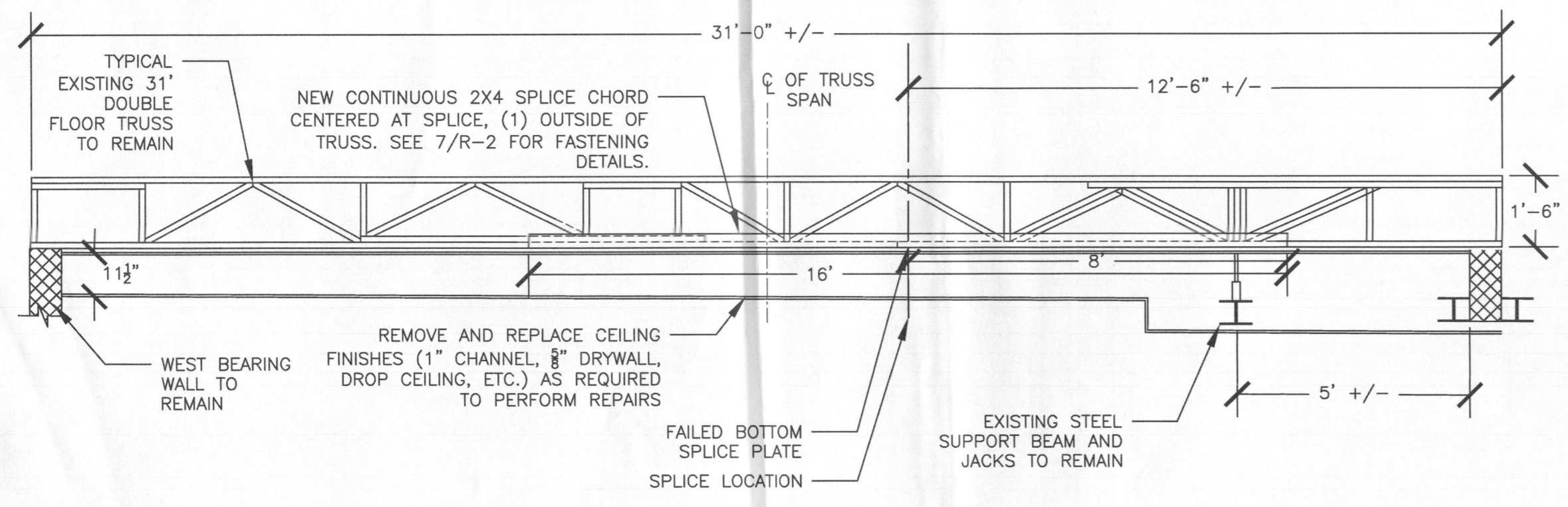
3 TYPICAL VERTICAL-TO-TOP CHORD PLATE REPAIR  
R-2 SCALE: 1 1/2"=1'-0"



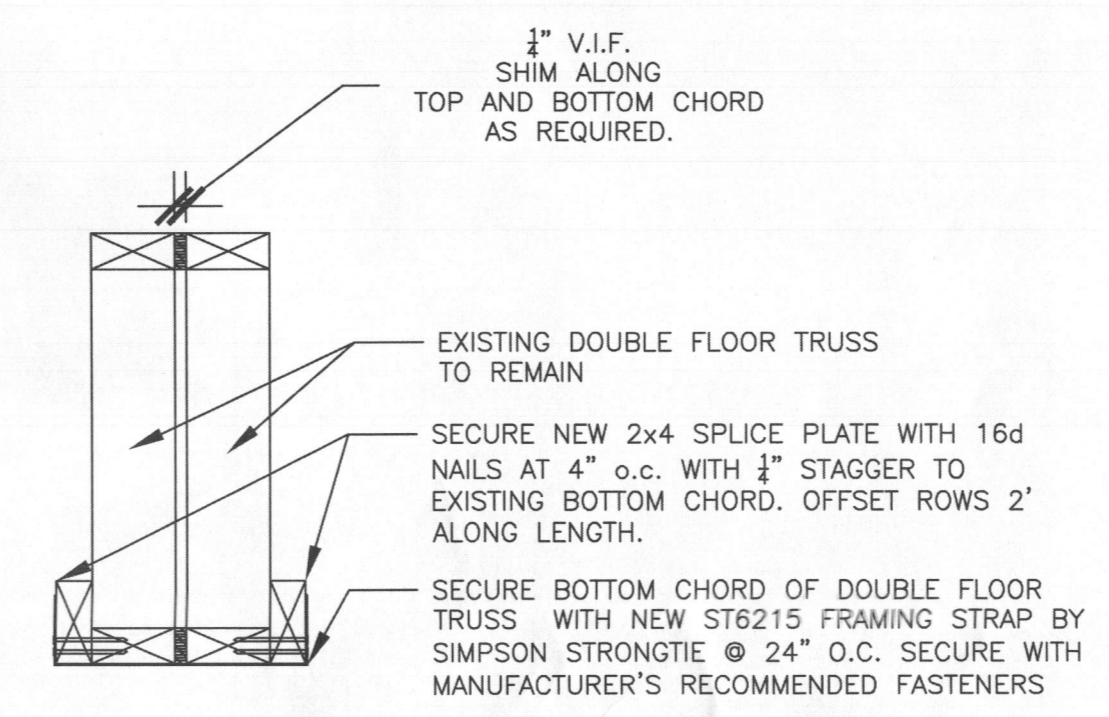
4 TYPICAL DIAGONAL MEMBER REPAIR  
R-2 SCALE: 1 1/2"=1'-0"



5 TYPICAL UL-L528 REPAIR (1 HOUR RATED ASSEMBLY)  
R-2 SCALE: 1 1/2"=1'-0"



6 TYPICAL 31' DOUBLE TRUSS STRENGTHENING DETAILS  
R-2 SCALE: 3/8"=1'-0"



7 DOUBLE TRUSS STRENGTHENING DETAIL  
R-2 SCALE: 1 1/2"=1'-0"

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STATE OF MARYLAND  
CHRISTOPHER WILLIAMS  
PROFESSIONAL ENGINEER

5036 DORSEY HALL DRIVE, SUITE 105  
COLUMBIA, MARYLAND

MEYER & ANDERSON DENTAL  
5036 DORSEY HALL DRIVE, SUITE 105  
COLUMBIA, MARYLAND

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**ETC**  
Engineering and Technical Consultants, Inc.  
7165 Columbia Gateway Drive, Suite B, Columbia, Maryland 21042  
410.312.4751 | 410.312.0482

TRUSS REPAIR DETAILS

SCALE: AS NOTED PROJECT NO. M7-3125 DATE: 07/03/17  
APPROVED BY: CHRISTOPHER W. CARLSON, P.E. DRAWING NUMBER  
DRAWN BY: DJS R-2