

STRUCTURAL DESIGN

DESIGN LOADS

Importance Factors: Wind (W) 1.0
Snow (S) 1.0
Seismic (E) 1.0
Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 100 psf
Snow Load: 10 psf

Wind Load: Basic Wind Speed 110 mph (ASCE-7-98)
Exposure Category B
Wind Borne Shears (for HMFRS) V= 1.6 K Y= 1.4 K

SEISMIC DESIGN CATEGORY A
Compliance with Section 1616.4 only? Yes No
SEISMIC DESIGN CATEGORY B, C, & D0
Provide the following Seismic Design Parameters

Seismic Use Group 1
Spectral Response Acceleration S_s = 0.2120 S₁ = 0.0997
Site Classification B
Basic structure system (check one)
 Building Frame Dual w / Special Moment Frame
 Moment Frame Dual w / Intermediate R/C or Special Steel
 Inverted Pendulum

Seismic base shear V_s = 1.2K Y = 0.59 K
Analysis Procedure Simplified Equivalent Lateral Force
Architectural, Mechanical, Components anchored? YES

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) N/A pf
Presumptive Bearing capacity 2000 pf
Pile size, type, and capacity N/A

STRUCTURAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL SYSTEMS AND COMPONENTS INCLUDING ROOF SYSTEMS, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CONTAINERS, OFFSET LOAD BEARING WALLS, PER & GIRDERS SYSTEM AND FOUNDATIONS.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2009 EDITION OF THE INTERNATIONAL RESIDENTIAL BUILDING CODE PLUS ALL LOCAL CODES AND REGULATIONS.
- DESIGN LOADS

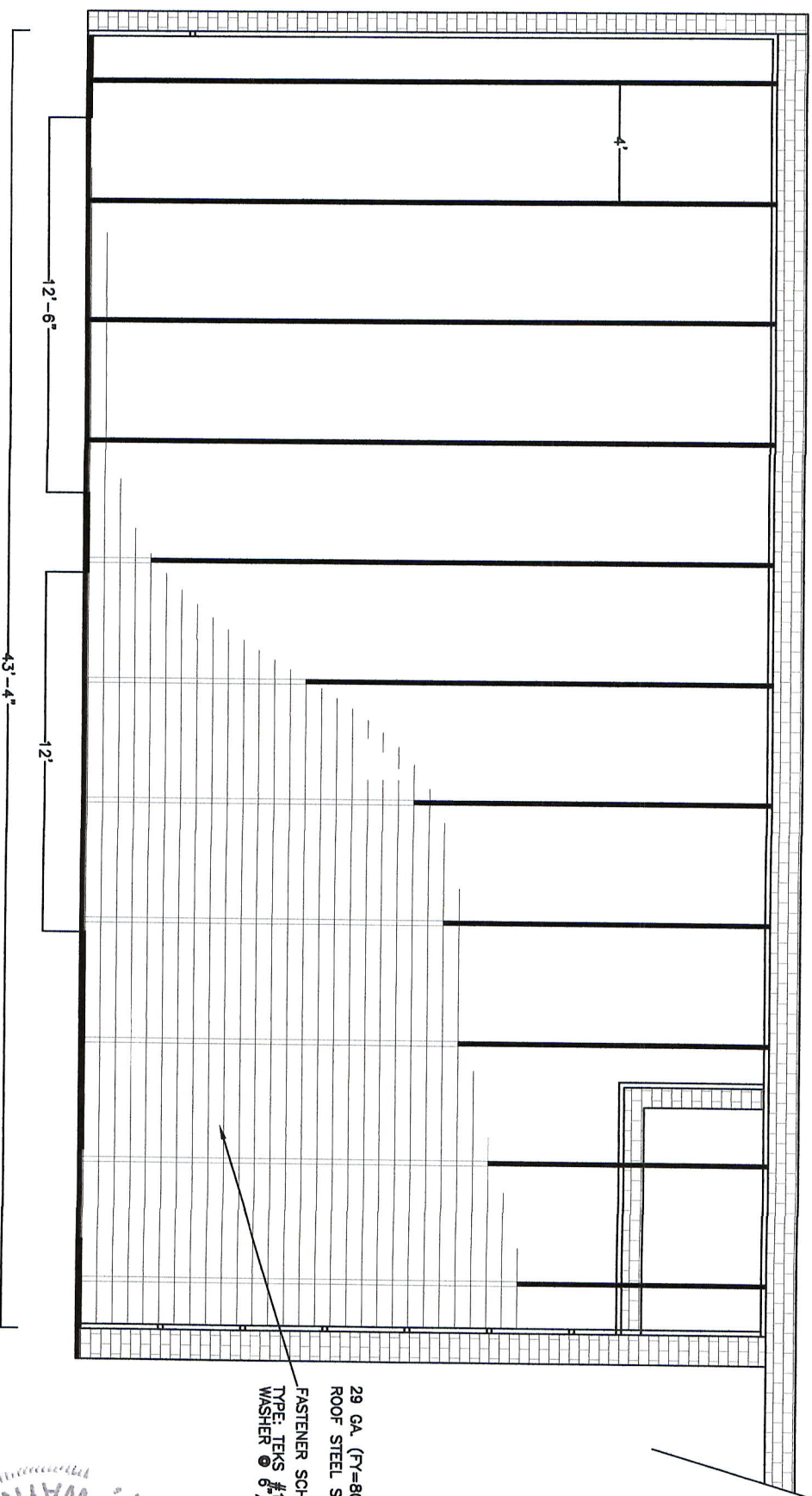
DESIGN LOAD	DEAD LOAD (psf)	DEFLECTION (DL+LL)
FLOOR (PRIMARY DWELLING)	100	N/A
ROOF	20	L/240
WIND	15.8 (BASED ON 100 MPH WIND VELOCITY)	
- ALLOWABLE SOIL PRESSURE = 2000 PSF.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 4-INCHES UNLESS OTHER WISE NOTED (U/M).
- ALL BEAMS, GIRDERS SHALL HAVE A MINIMUM BEARING LENGTH OF 1'-3/4-INCHES.
- ALL STRUCTURAL TUBING SHALL BE GRADE B TUBING AND SHALL CONFORM TO ASTM A500 STANDARDS.

29 GA. (FY=80 KSI)
ROOF STEEL SHEATHING
FASTENER SCHD.
TYPE: TEKS #1 2x1" SCREWS W/NEOPRENE/STEEL WASHER @ 8"/C OF CORNER PANEL AND 8"/C

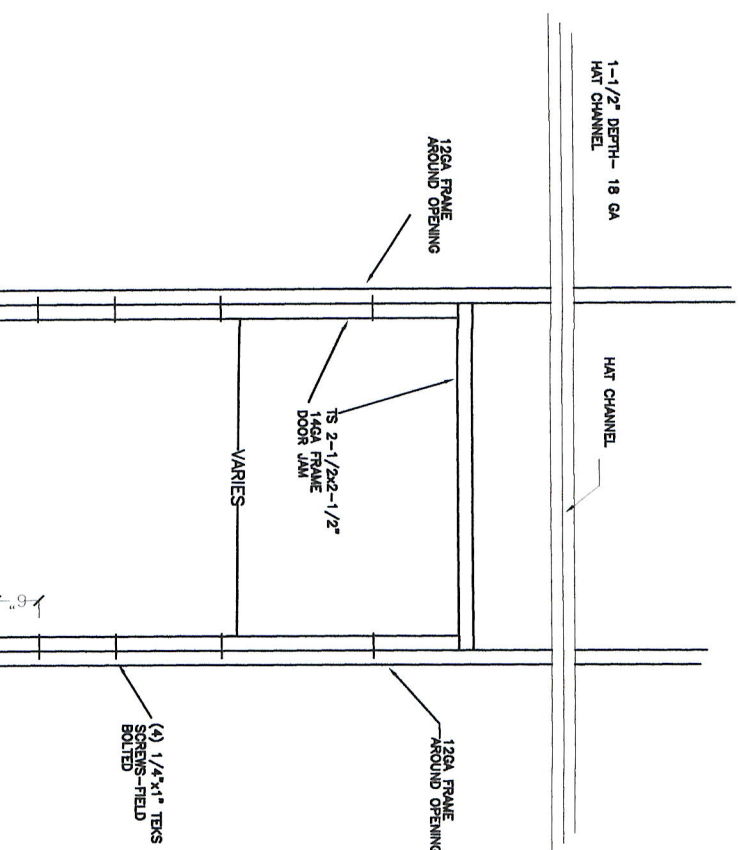


ATTACH DECKING TO BEAMS IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS
DECKING SHALL HAVE A MINIMUM CAPACITY OF 20 LBS./SQ. FT.

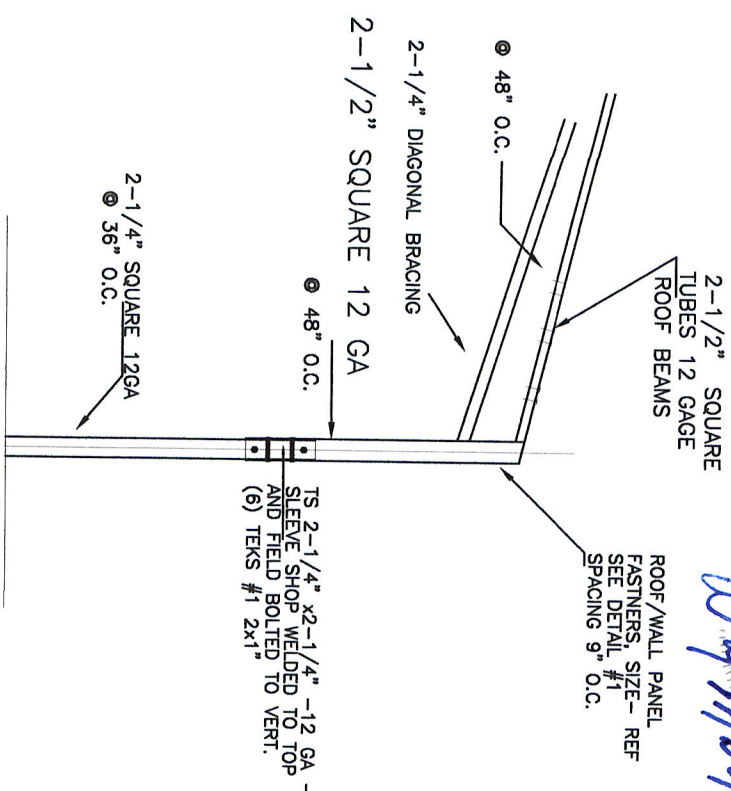
SCALE : NOT TO SCALE



TYPICAL ROOF FRAMING PLAN
SCALE NTS



TYPICAL MAN DOOR FRAMING
SCALE 1/4"=1'



TYPICAL COLUMN TO ROOF BEAM DETAIL
SCALE : NTS

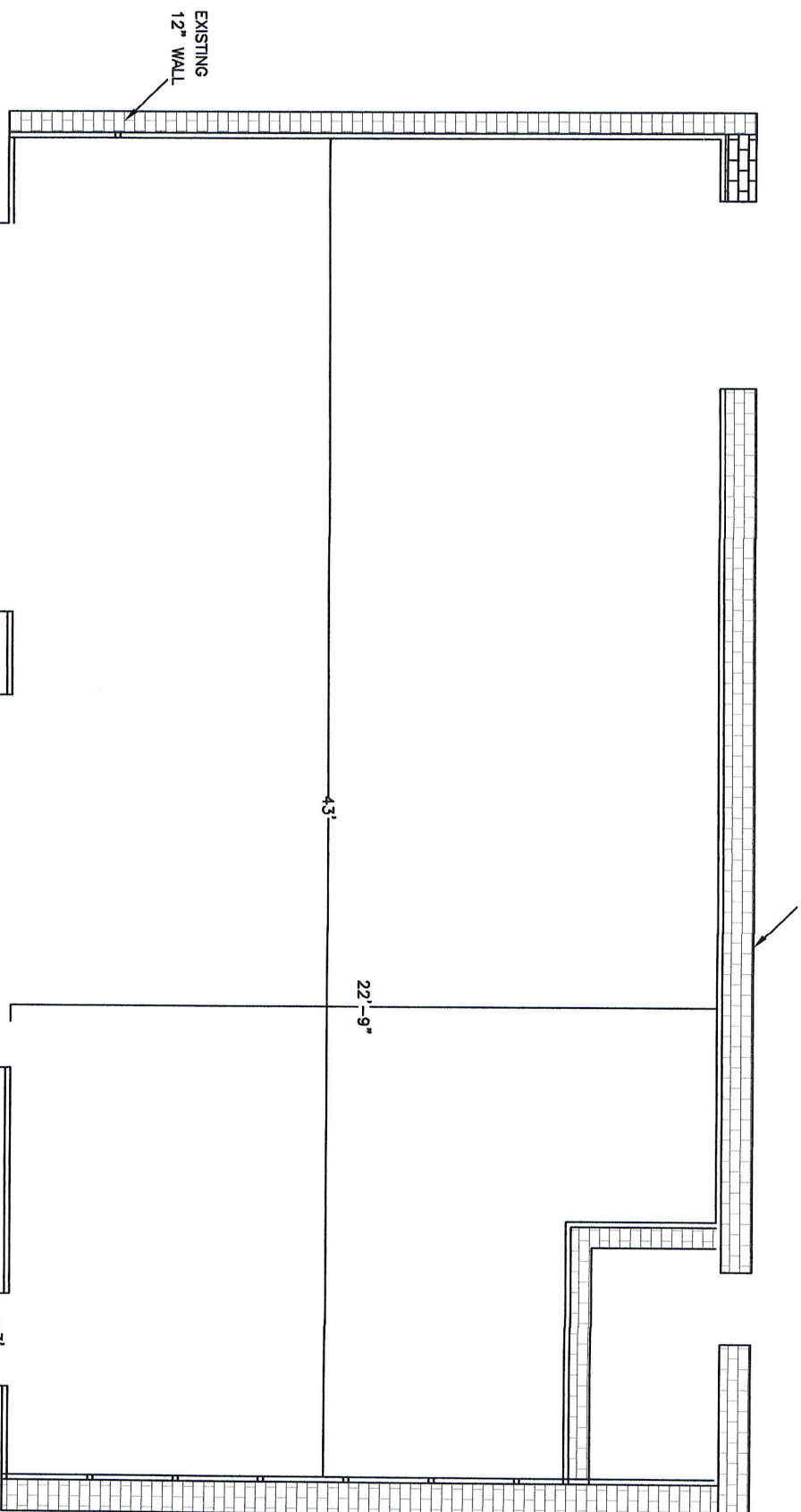


ROOF/WALL PANEL FASTENERS, SIZE- REF SEE DETAIL #1 SPACING 9" O.C.

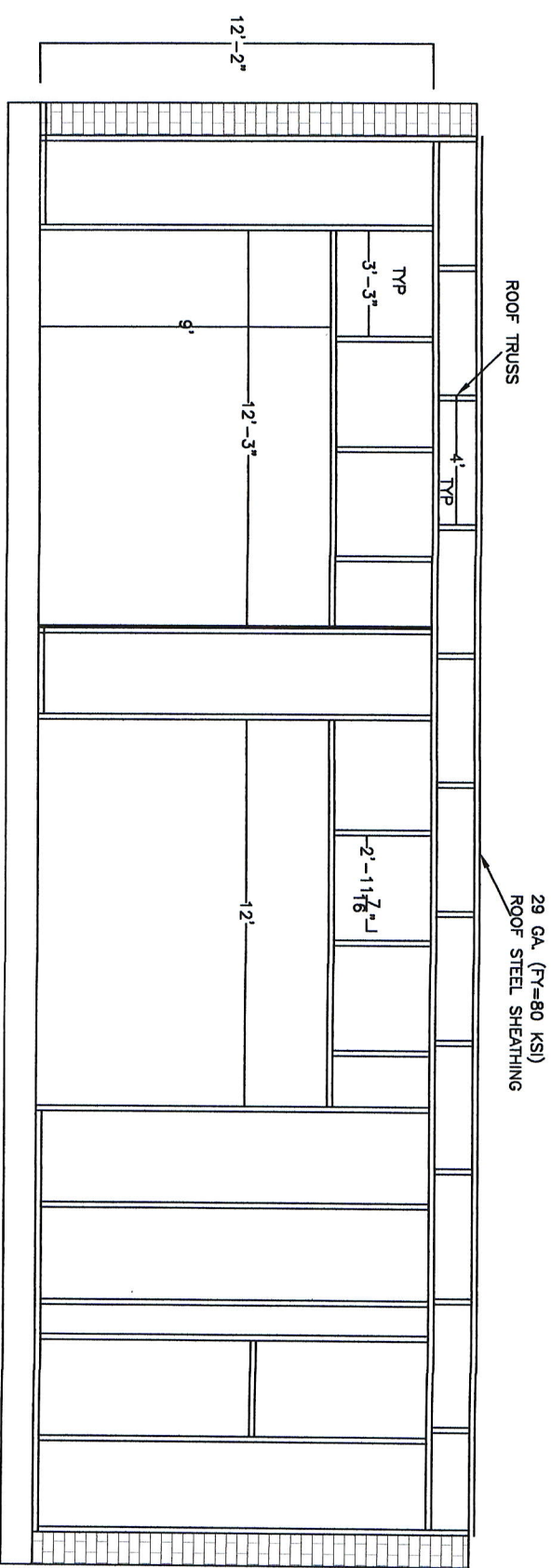
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WAYNE R. DASHFIELD, PE
 421-B BRIGHT LEAF BLVD.
 919-934-0961

EXISTING

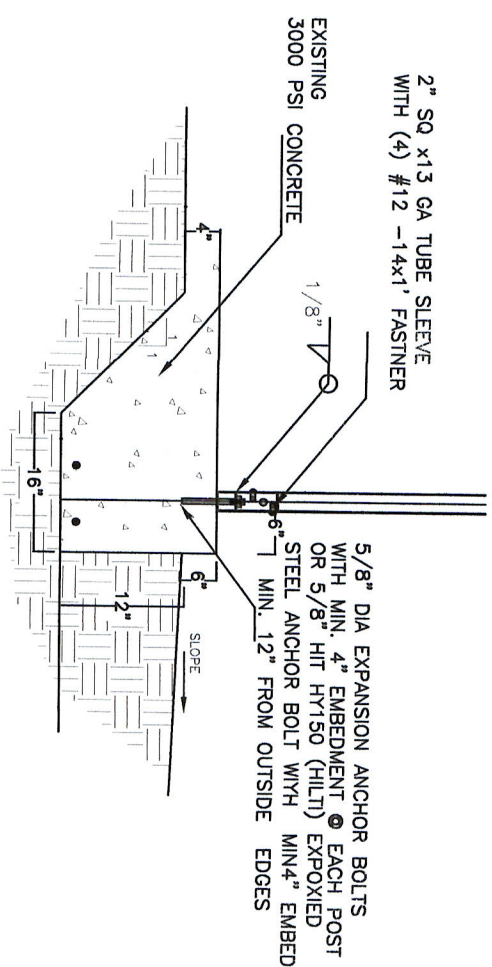


EXISTING FLOOR PLAN
 SCALE NTS

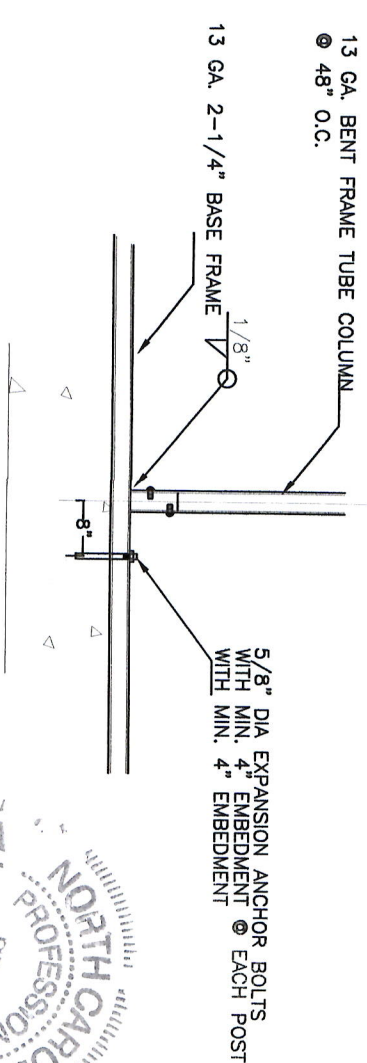


TYPICAL FRONT FRAMING PLAN
 SCALE NTS

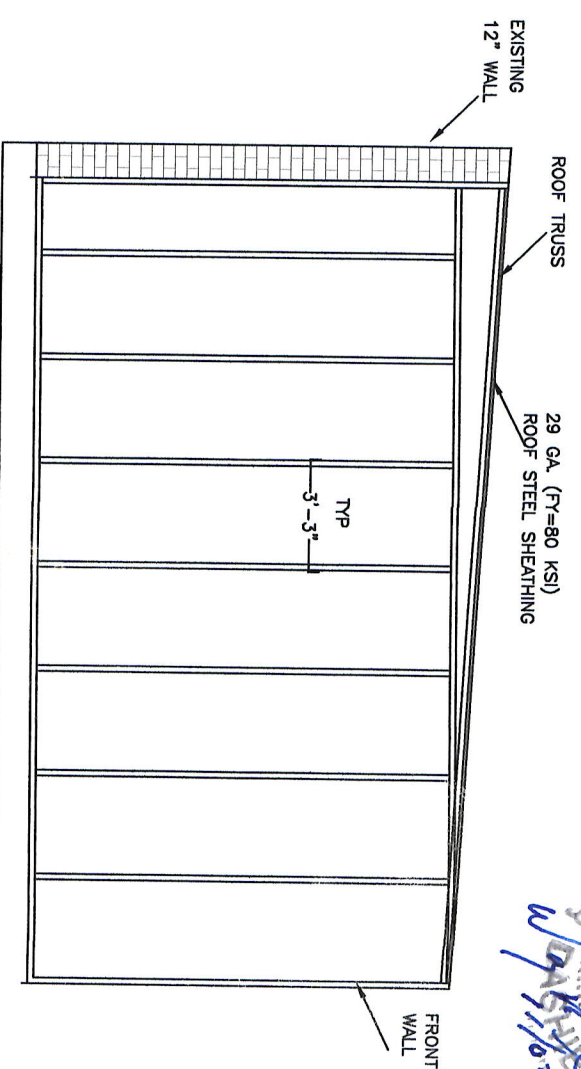
COATS AUTO ADDITION
 34 NORTH MCKINLEY STREET
 COATS, NC
 919-934-0961



FOOTING DETAIL
 SCALE 1/2"=1'



FOOTING DETAIL
 SCALE 1/2"=1'



TYPICAL SIDE FRAMING PLAN
 SCALE NTS

