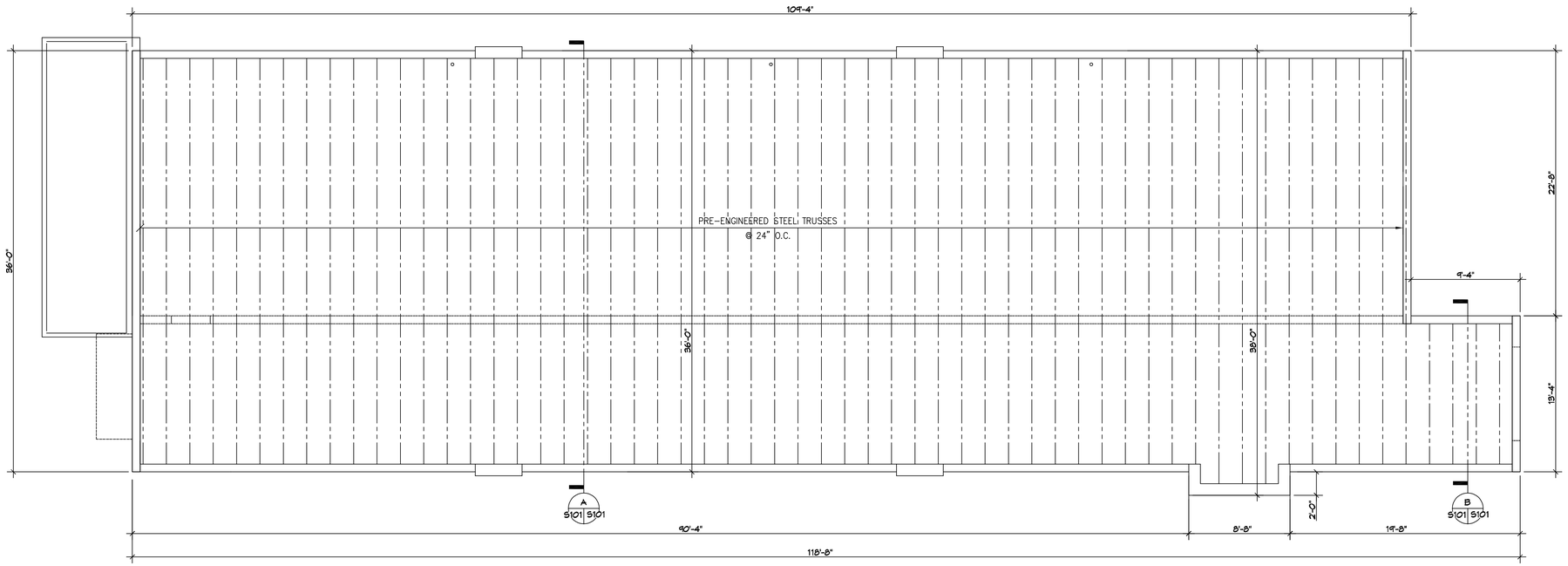
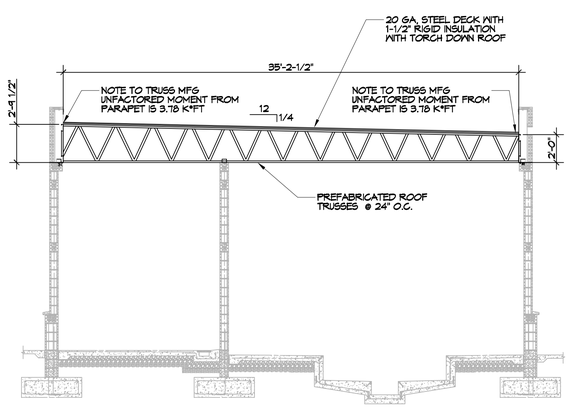


1 OVERALL ROOF FRAMING PLAN

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

CARWASH PLAN

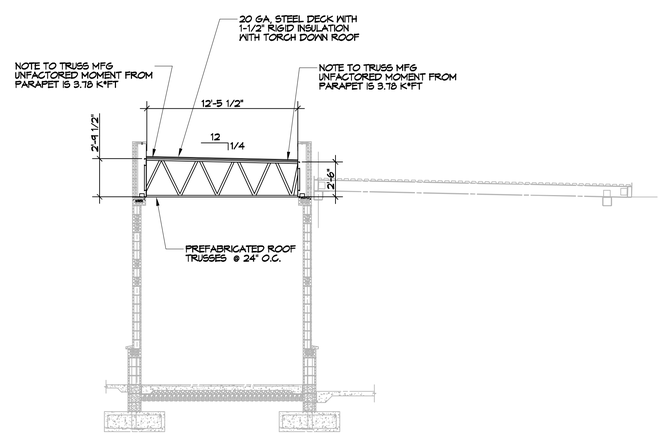


A SECTION

S101|A101

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

BUILDING SECTION



B SECTION

S101|A101

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

BUILDING SECTION

DESIGN DATA

1. Design Codes – (All latest editions unless noted otherwise.)
   - International Building Codes (IBC 2018)
   - American Society of Civil Engineers (ASCE 7–16) Minimum Design Loads for Buildings and Other Structures
   - American Concrete Institute (ACI)
   - American Institute of Steel Construction (AISC)
   - American Welding Society (AWS)
   - American Iron and Steel Institute Specifications for the Design of Cold Formed Steel Structural Members (AISI)
   - National Design Specification for Wood Construction (ANSI/AF&PA NDS–2001)
   - Steel Deck Institute (SDI)
2. Design Loads (IBC & ASCE7)
   - Dead Load Design Data
     - Roof — 20 psf
     - Exterior Stud Wall — Self Weight
     - Exterior CMU Wall — Self Weight
   - Live Load Design Data
     - Slab–On–Grade — 100 psf
   - Live Roof Load Design Data
     - Roof (Sloped) — 20 psf
     - Roof (Flat) — 20 psf
   - Wind Design Data
     - Risk Category — II
     - Velocity — 160mph
     - Wind Exposure Category — C
     - Internal Pressure Coefficient, GC_{pi} — 0.18±
   - Snow Design Data
     - Importance Factor for Snow, I_s — 1.0
     - Ground Snow Load, P_g — 0 psf
     - Exposure Coefficient C_e — 1.0
     - Thermal Factor C_t — 1.0
     - Roof Slope Factor, C_s — 1.0
     - Flat Roof Snow Load P_f — 0 psf
   - Seismic Criteria
     - Risk Category — II
     - Seismic Importance Factor, I_E — 1.0
     - Site Soil Class — E
     - Mapped Spectral Response Coefficients — S_s = 0.0956 / S_1 = 0.059; S_{ds} = 0.153 / S_{d1} = 0.165
     - Seismic Design Category — C
     - Basic Seismic Force Resisting System — Ordinary Masonry Reinforced Shear Wall
     - Design Base Shear — 0.0306W
     - Seismic Response Coefficient, C_S — 0.03
     - Response Modifications Factor, R — 5.0
     - Analysis Procedure — Equivalent Lateral Force
   - Deflection and Drift Limitations
   - Roof/Floor Members
     - — L/360
     - — L/240
   - Building Drift — H/600
   - Max Wall Deflection — L/600
   - Story Drift (Seismic) — 0.025 h_{sx}

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#	DESCRIPTION	REVISIONS	DATE

SEAL:

BRIAN A. MISTICH
LICENSED PROFESSIONAL ENGINEER
20971
STATE OF MISSISSIPPI

A NEW CARWASH FOR

CHEEKY MONKEY

11252 LORRAINE RD
GULFPORT, MISSISSIPPI 39503

JOB No: 2024 | DATE: 03-18-24

DRAWN BY: CKD | CHECKED BY: BAM

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SHEET TITLE:
ROOF FRAMING PLAN

DRAWING NUMBER:

S101

SHEET No: 1 of 1