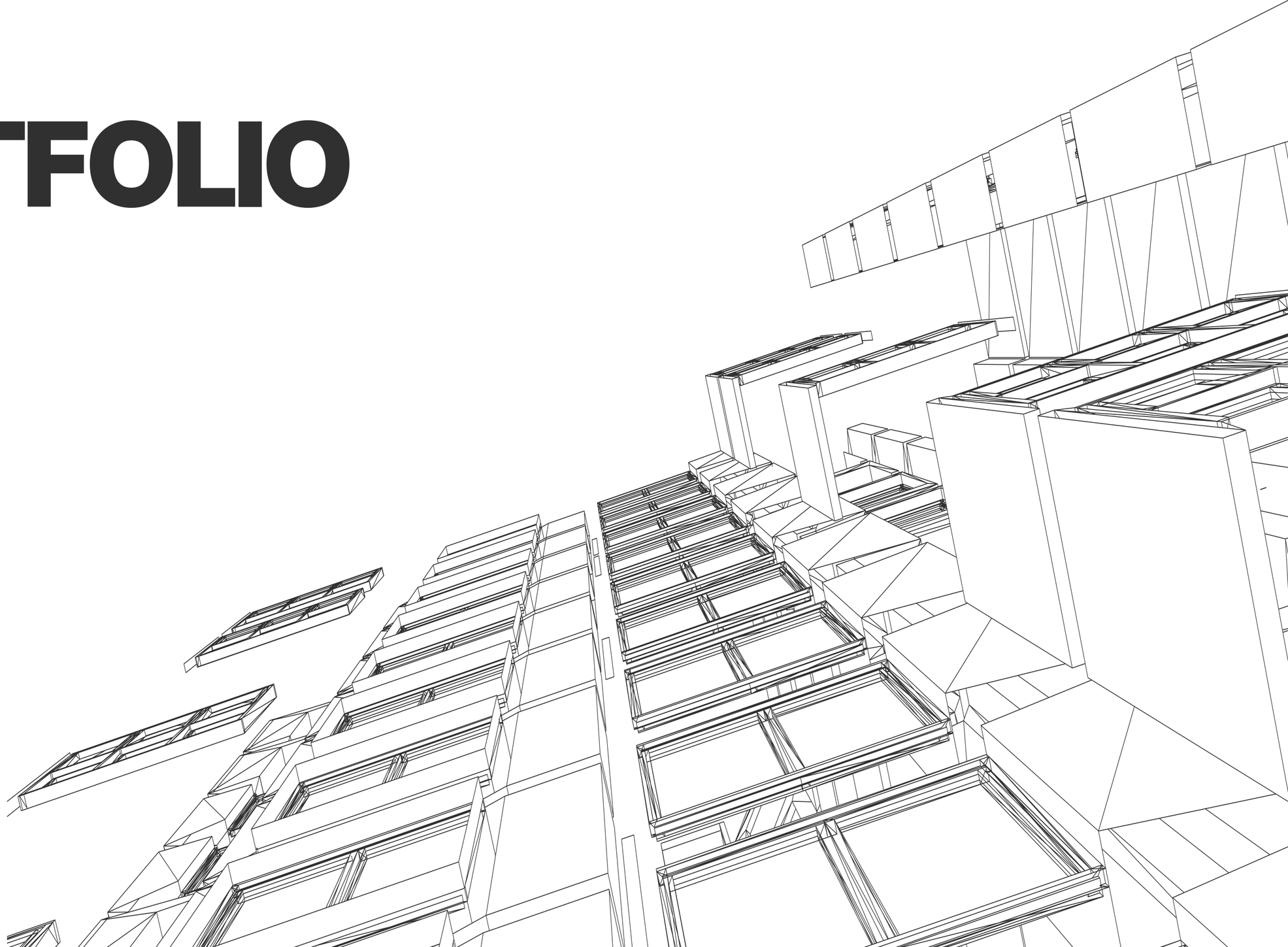
PORTFOLIO



BRYAN FLOREZ

CIVIL ENGINEER
DRAFTPERSON

Summary

Detail-oriented Civil Engineering Draftsperson graduate with strong AutoCAD skills and experience preparing site layouts, long sections and cross-sections in accordance with Australian Standards. Seeking an entry-level role within an Australian engineering consultancy to contribute accurate drafting and technical documentation. Committed to providing reliable and consistent support to engineering teams. Holds full working rights in Australia.

BRYAN FLOREZ

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Mail bryan.florez18@gmail.com
Adress Brisbane, QLD

Educations

2024-2026 Diploma of Engineering
Technical Drafting & Civil Construction Design
2017-2022 Bachelor of Engineering
Industrial Engineering

Skills

- AutoCAD and 12d Model
- Structural Analysis and practical construction understandings
- Reinforced concrete design
- Steel structure design

Softwares

- AutoCAD
- SpaceGass
- 12d Model
- Microsoft Office

Langguage

English
Proeficient

Spanish
Native

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Detail Drawing Steel Structures
Trusses-Rafter



02
Reinforced Concrete
Column & Footing



03
Drainage & Pavement design
Culvert Drawings

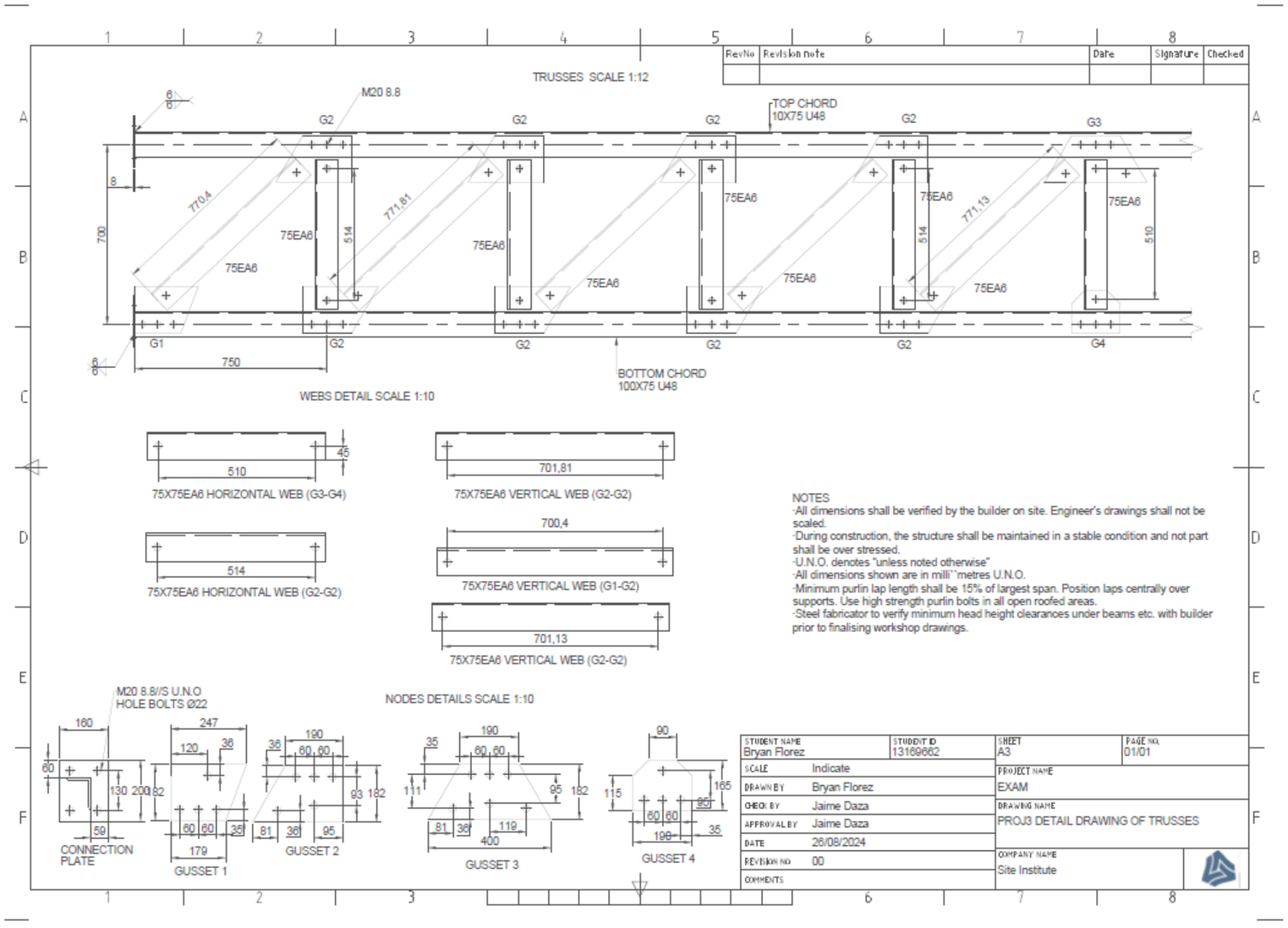


04
Road Signage Detailing
Signage Details



05
Structural Analysis
Reinforced Concrete & Steel

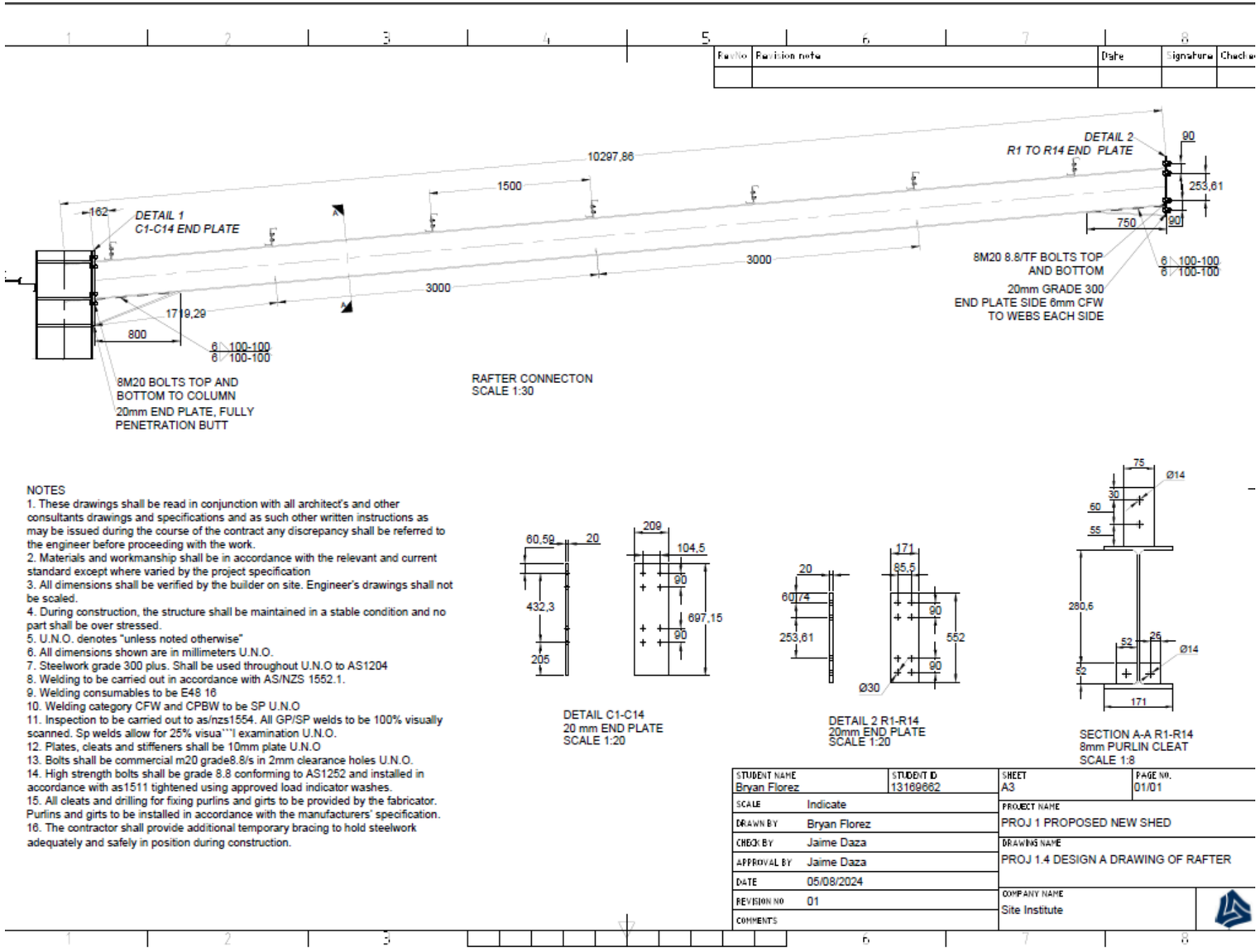
SPACE GASS



PROJECT - 01

STEEL TRUSS DETAILING

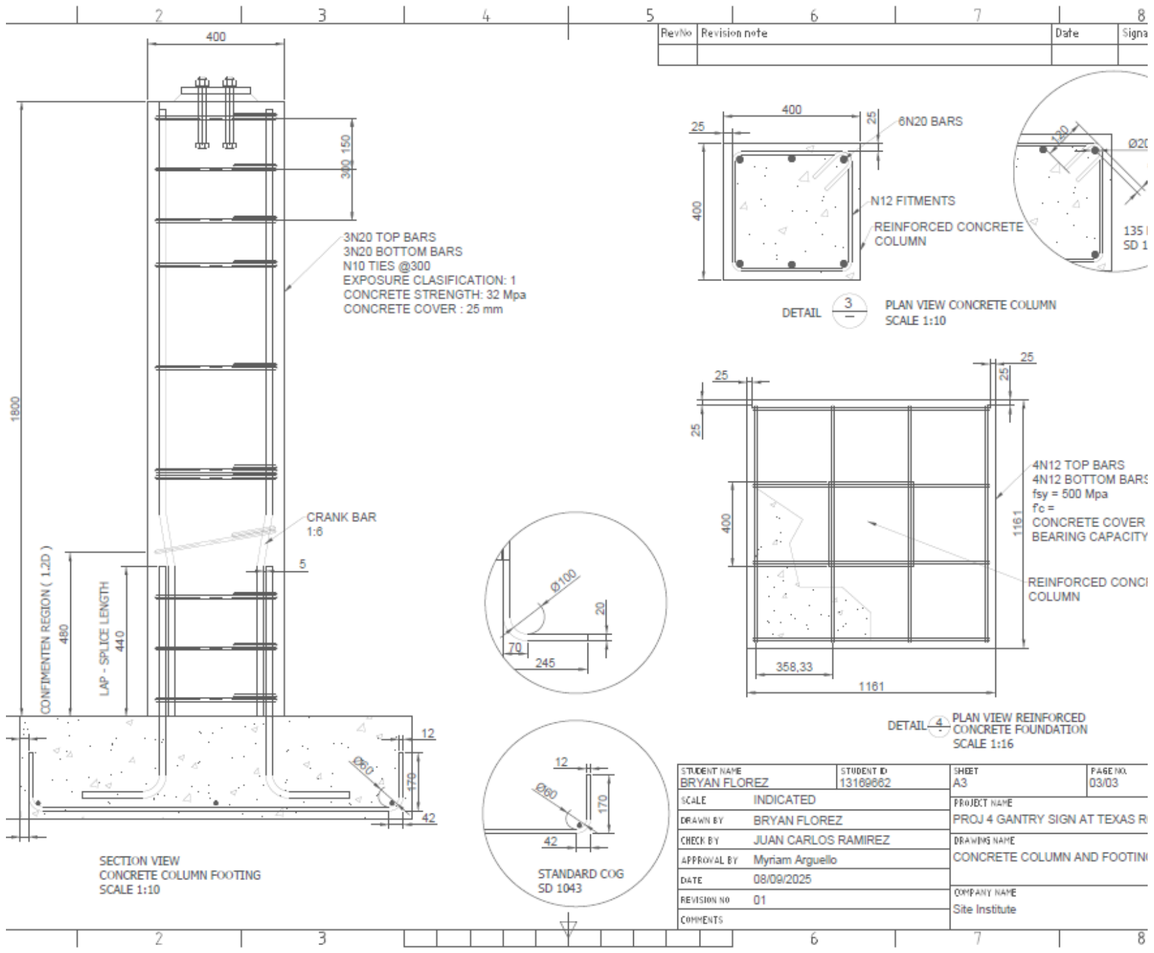
I developed the complete steel truss detailing package, including gusset plates, bolted connections, and node arrangements. The detailing was prepared to ensure structural integrity, efficient load distribution, and practical constructability. The final deliverables consisted of fabrication-ready drawings developed in accordance with structural design requirements and construction standards.



PROJECT - 01

STEEL RAFTER DETAILING

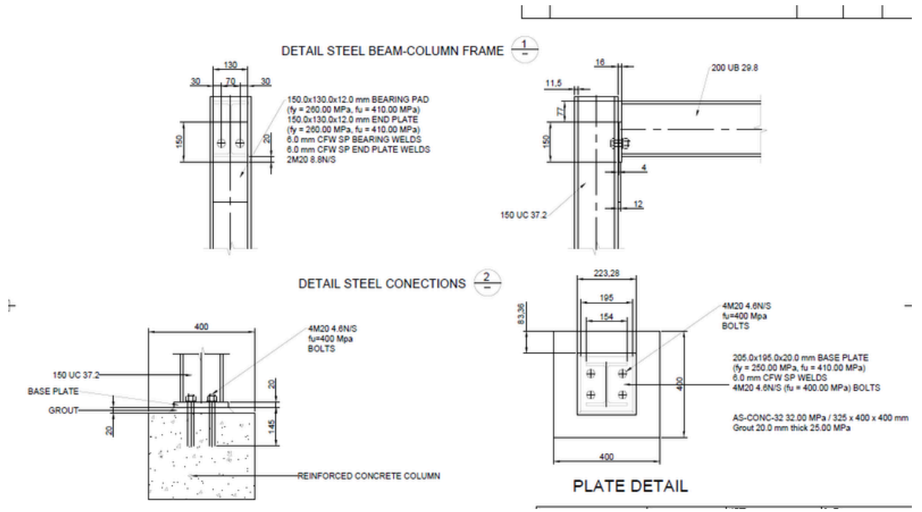
I developed the structural detailing of a steel rafter connection system for an industrial shed structure, including end plate configurations, bolted beam-column connections, weld specifications, and purlin cleat arrangements. The drawings incorporated sectional views, fabrication dimensions, connection details, bolt layouts, and construction notes in accordance with structural steel drafting standards and AS 4100 requirements. The final outcome was a coordinated set of fabrication-ready structural drawings developed to ensure constructability, connection integrity, and efficient on-site installation.

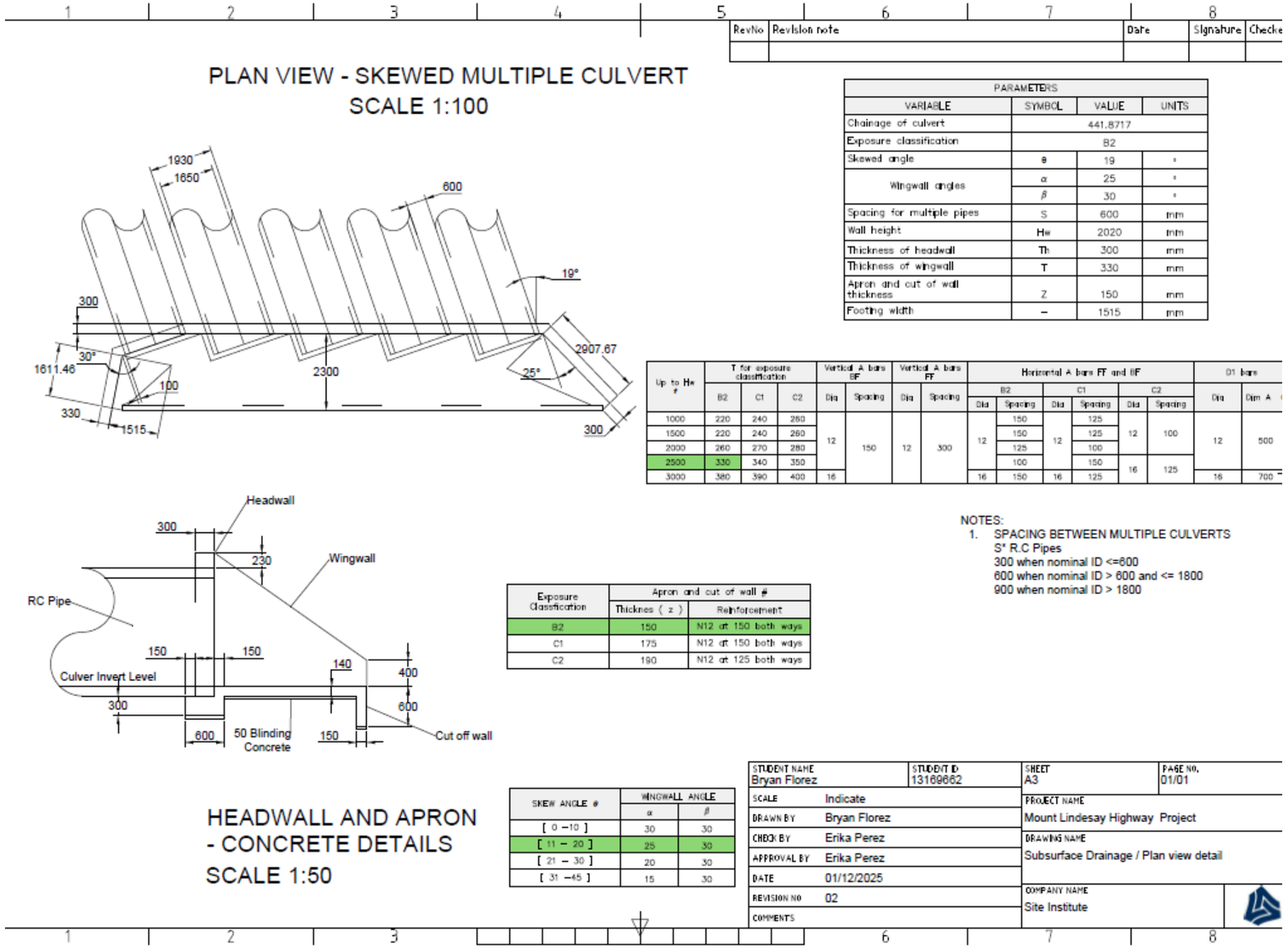


PROJECT - 02

CONCRETE COLUMN AND FOOTING DETAILS

I prepared the reinforcement detailing for the reinforced concrete column and footing system, including reinforcement layouts, stirrup spacing, confinement regions, lap splice lengths, and anchorage requirements in accordance with Australian Standard AS 3600. The drawings incorporated section views, footing reinforcement arrangements, standard hook and cog details, concrete cover specifications, and fitment configurations to ensure structural compliance and constructability. The final outcome was a coordinated set of clear, standardized, and construction-ready structural drawings aligned with industry drafting practices and reinforced concrete detailing standards.





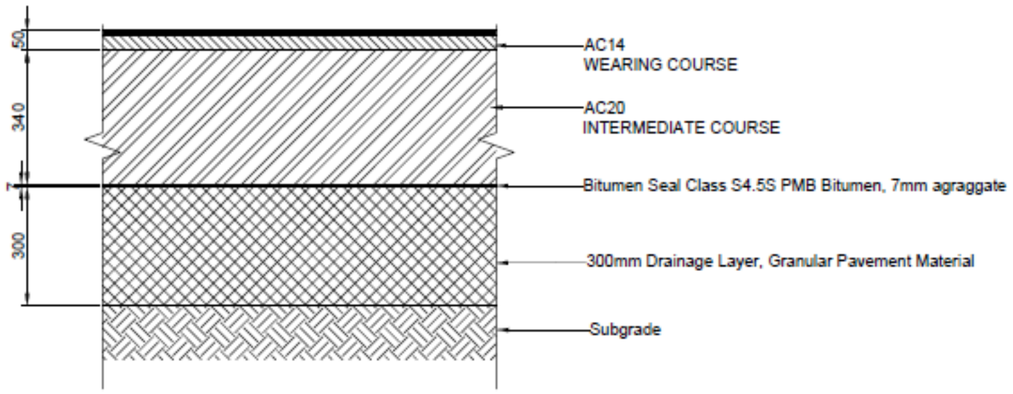
PROJECT - 03

DRAINAGE & PAVEMENT DESIGNS

I developed the design and detailing of a skewed multiple culvert drainage system and pavement structure using hydraulic, geometric, and traffic engineering parameters representative of real transport infrastructure conditions. The project included hydraulic assessment to determine culvert configuration, flow conditions, wingwall geometry, and headwall detailing, as well as pavement design based on CBR values and Equivalent Standard Axle (ESA) loading requirements. The drawings incorporated plan views, sectional detailing, reinforcement specifications, apron and cutoff wall configurations, and construction parameters aligned with Australian civil infrastructure drafting standards. The final outcome was an integrated and construction-oriented drainage and pavement solution developed to satisfy engineering performance, durability, and constructability requirements.

FULL DEPTH ASPHALT PAVEMENT DETAIL

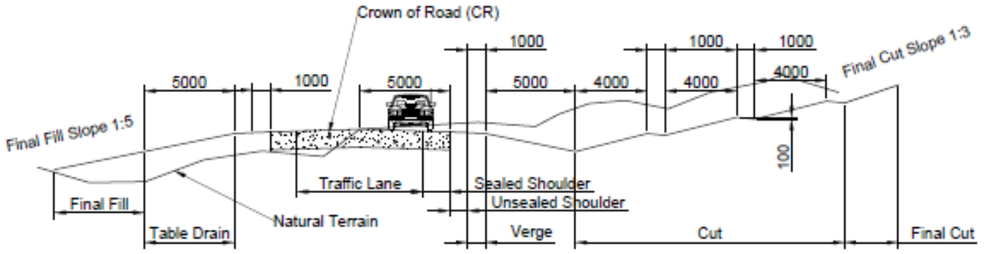
SCALE 1:12



AADT = 4142 (10.5% HV)
Design Traffic = 8.540E+06 ESA
Subgrade CBR = 4%

ROAD CROSS SECTION

SCALE 1:250



ROAD EMBANKMENT (FILL)

ROAD CUTTING

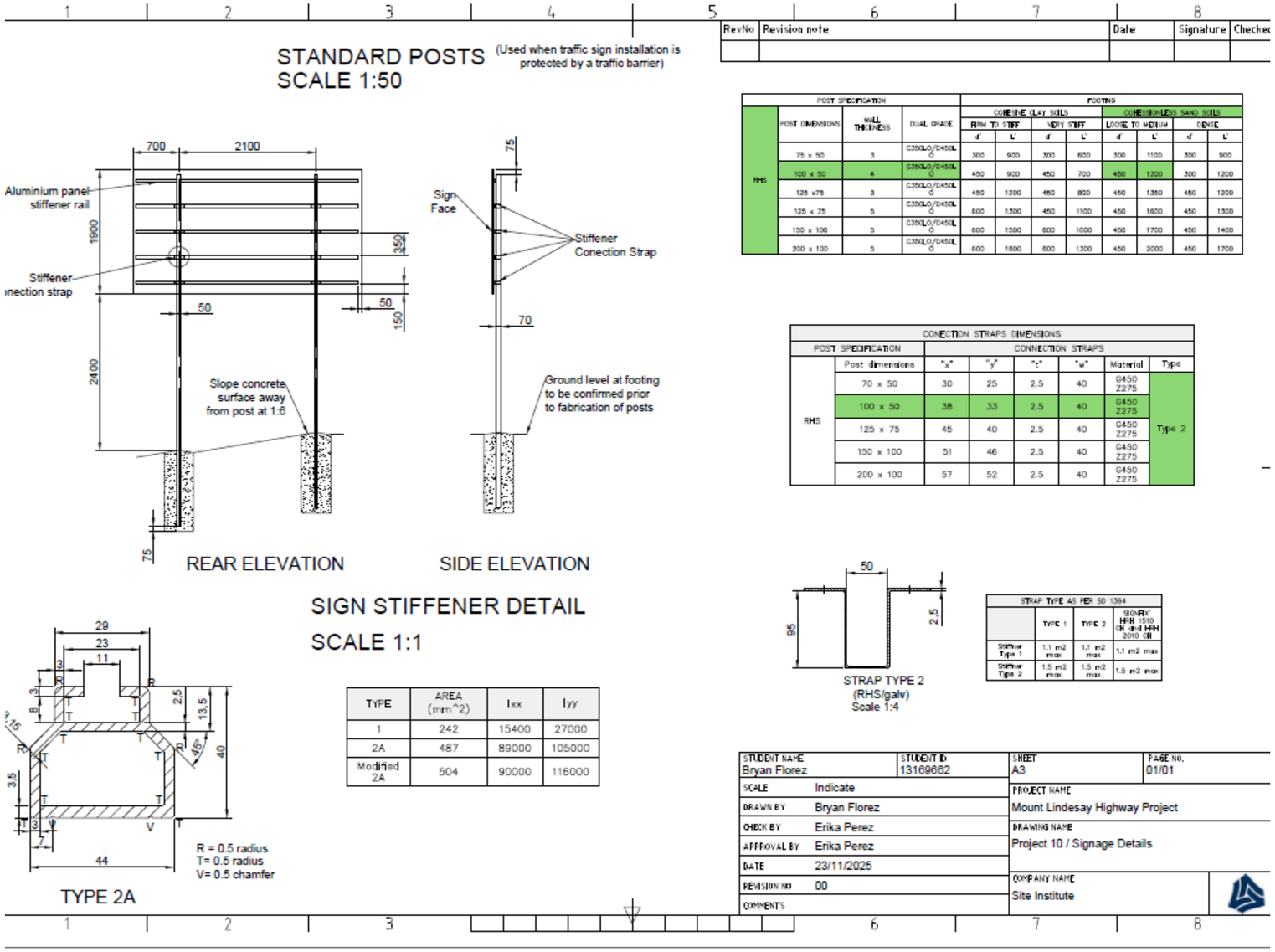
PROJECT - 03

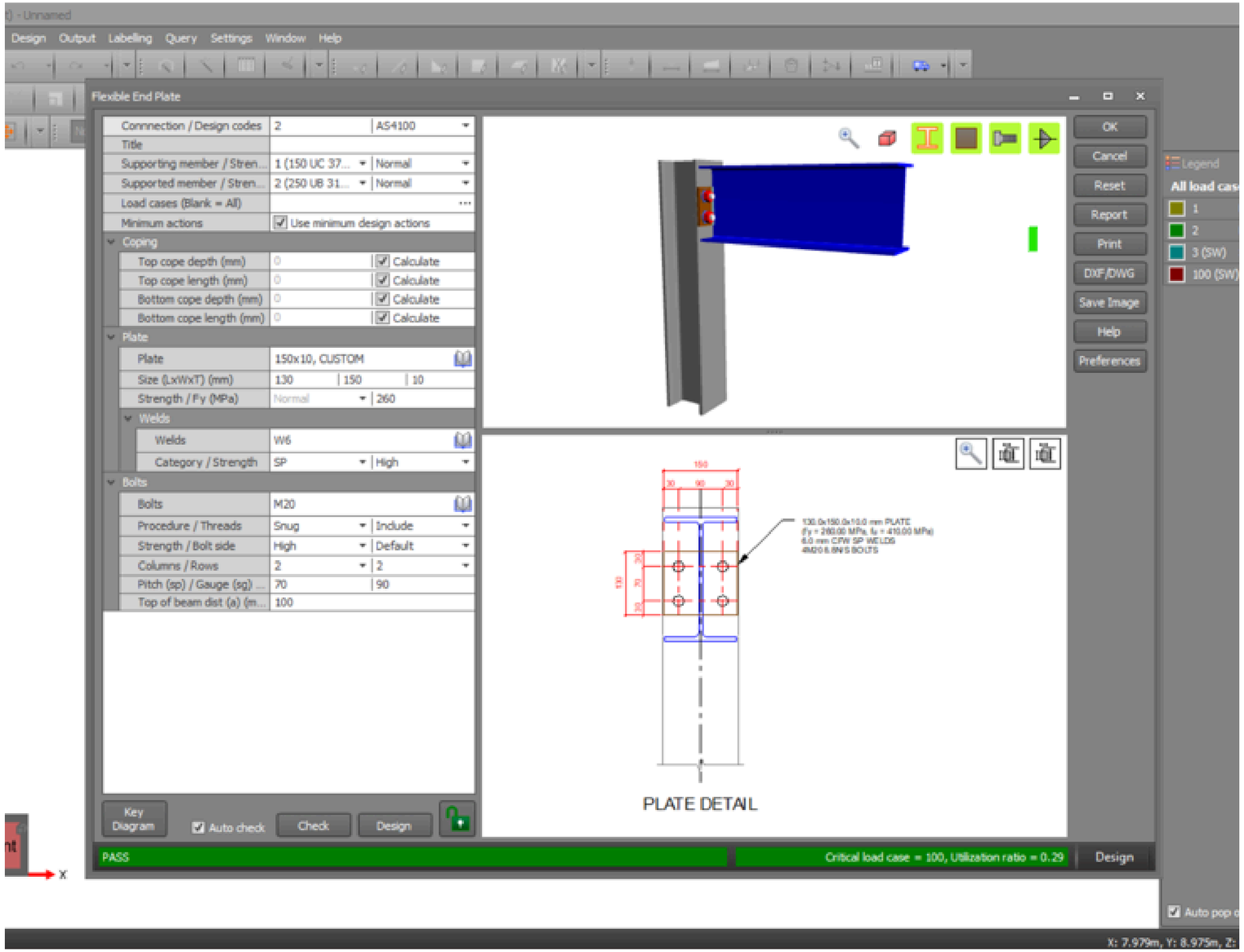
I developed the geometric and pavement detailing for a rural road corridor, including road cross sections, embankment and cutting configurations, drainage elements, and full-depth asphalt pavement composition. The pavement design was based on traffic loading, ESA requirements, and subgrade CBR values to define the appropriate pavement structure and layer thicknesses. The final drawings incorporated roadway geometry, pavement specifications, and construction details aligned with civil infrastructure drafting standards and practical road design requirements.

PROJECT - 04

ROAD SIGNAGE DETAILING

I developed the structural detailing and drafting documentation for a roadside signage system, including standard posts, stiffener connections, footing arrangements, and fabrication details. The drawings incorporated rear and side elevations, connection strap specifications, post schedules, and sign stiffener sections to ensure structural stability, constructability, and compliance with transport infrastructure drafting practices. The final outcome was a coordinated set of clear and fabrication-ready drawings developed to support accurate manufacturing and efficient on-site installation.

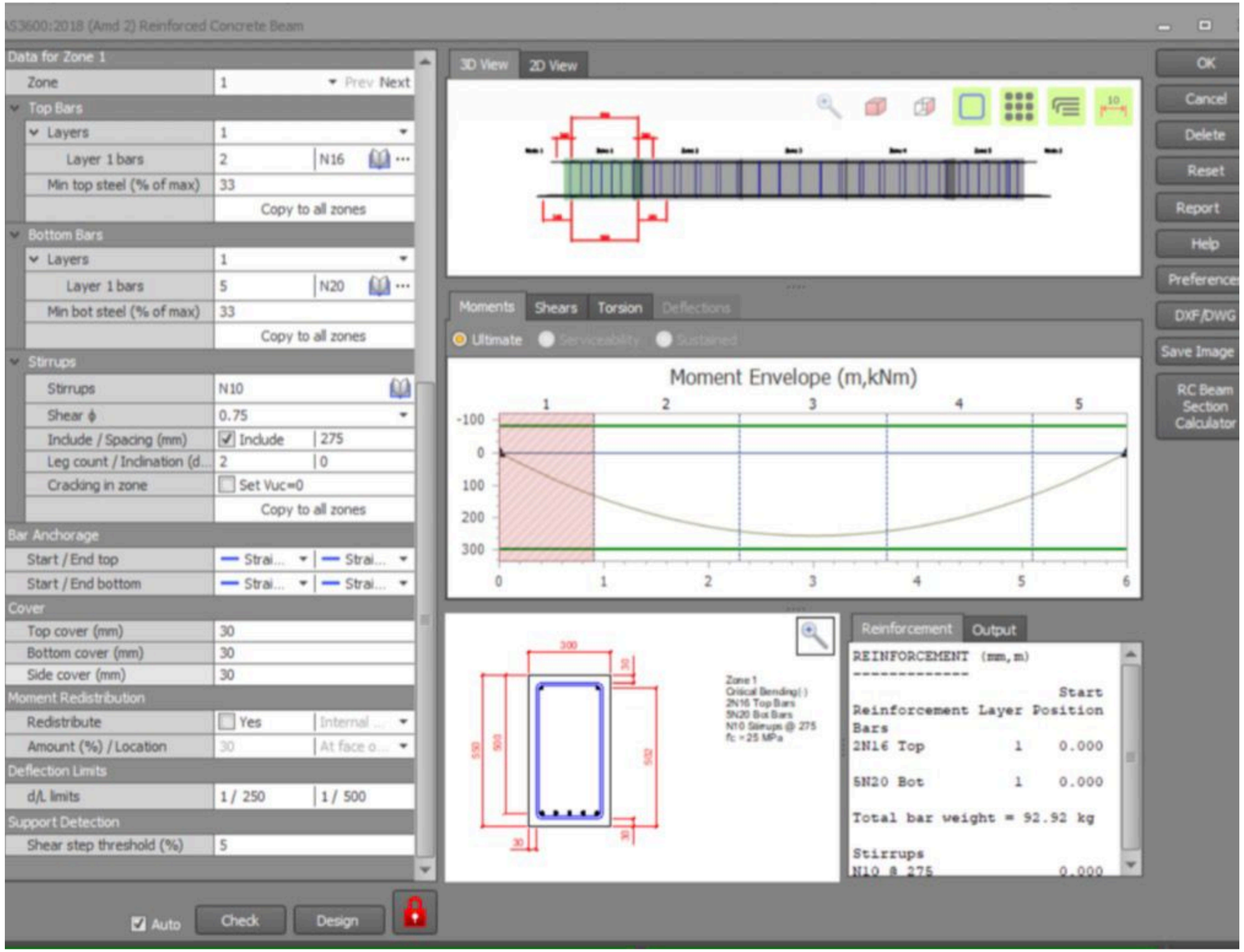




PROJECT - 05

STEEL TRUSS CONECTION ANALYSIS

I conducted the structural analysis of a steel truss using SpaceGass, assessing deflections under calculated load cases and reviewing the behaviour of key connections. Based on the analysis results, I determined appropriate member sizes, connection arrangements, and bolt requirements to achieve structural performance and alignment with Australian Standards. This process established the design basis for the subsequent detailing and documentation stage.



PROJECT - 05

REINFORCED CONCRETE STRUCTURAL ANALYSIS

I carried out the structural analysis of a reinforced concrete column and footing system, focusing on the verification of reinforcement requirements, stirrup spacing, and load-resisting behaviour under applied design actions. The analysis allowed me to assess the structural performance of the system and establish the design criteria used to develop the final construction drawings.



BUILDING MY CAREER THROUGH TECHNICAL DESIGN

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