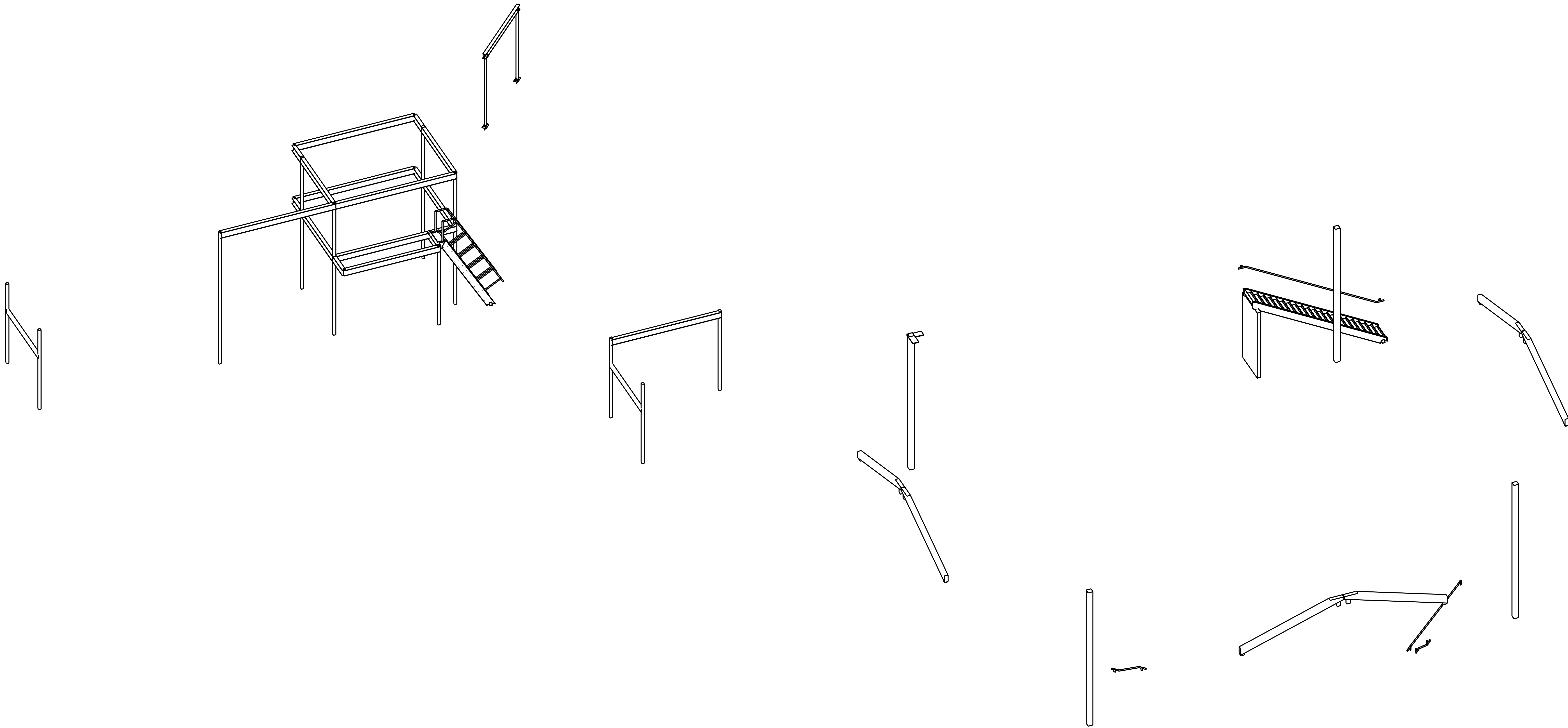


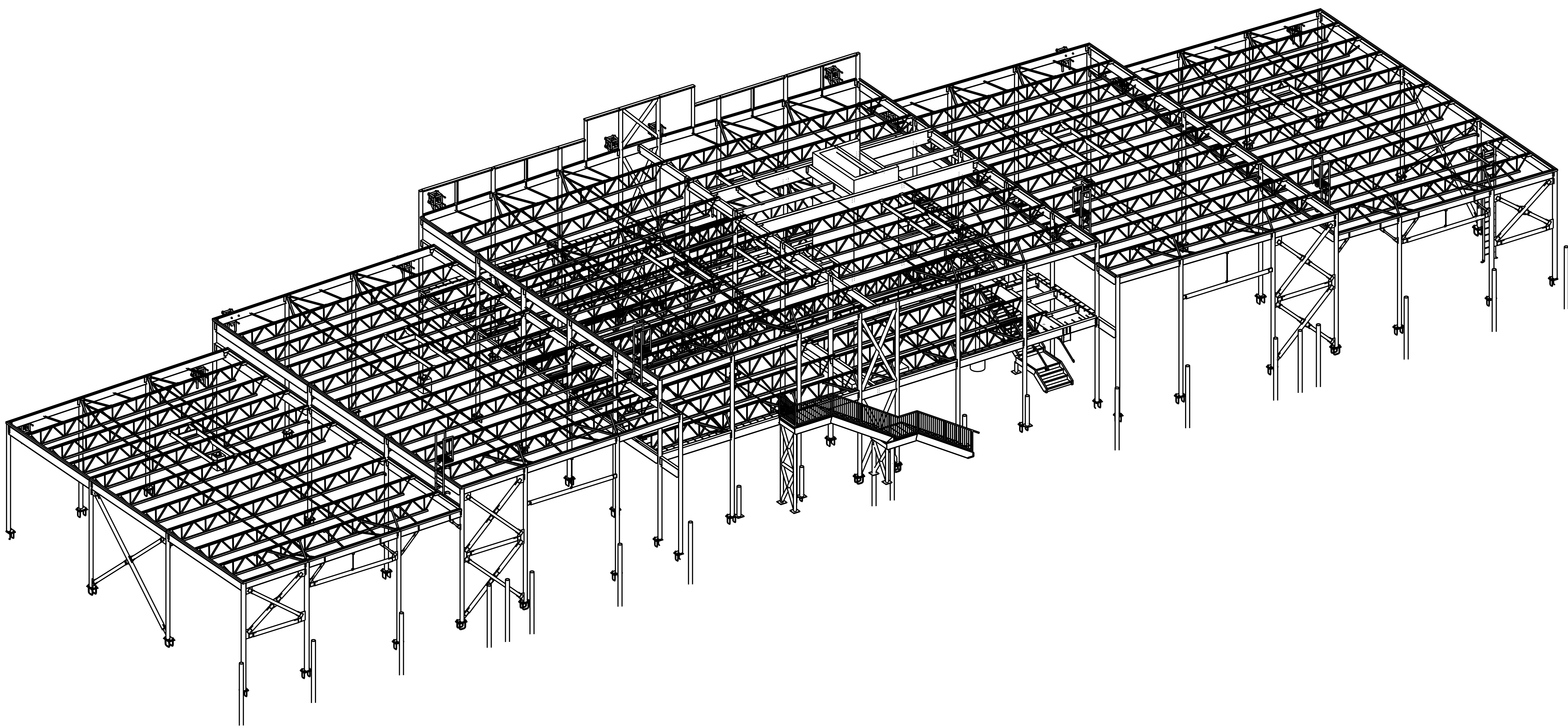
STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



3D

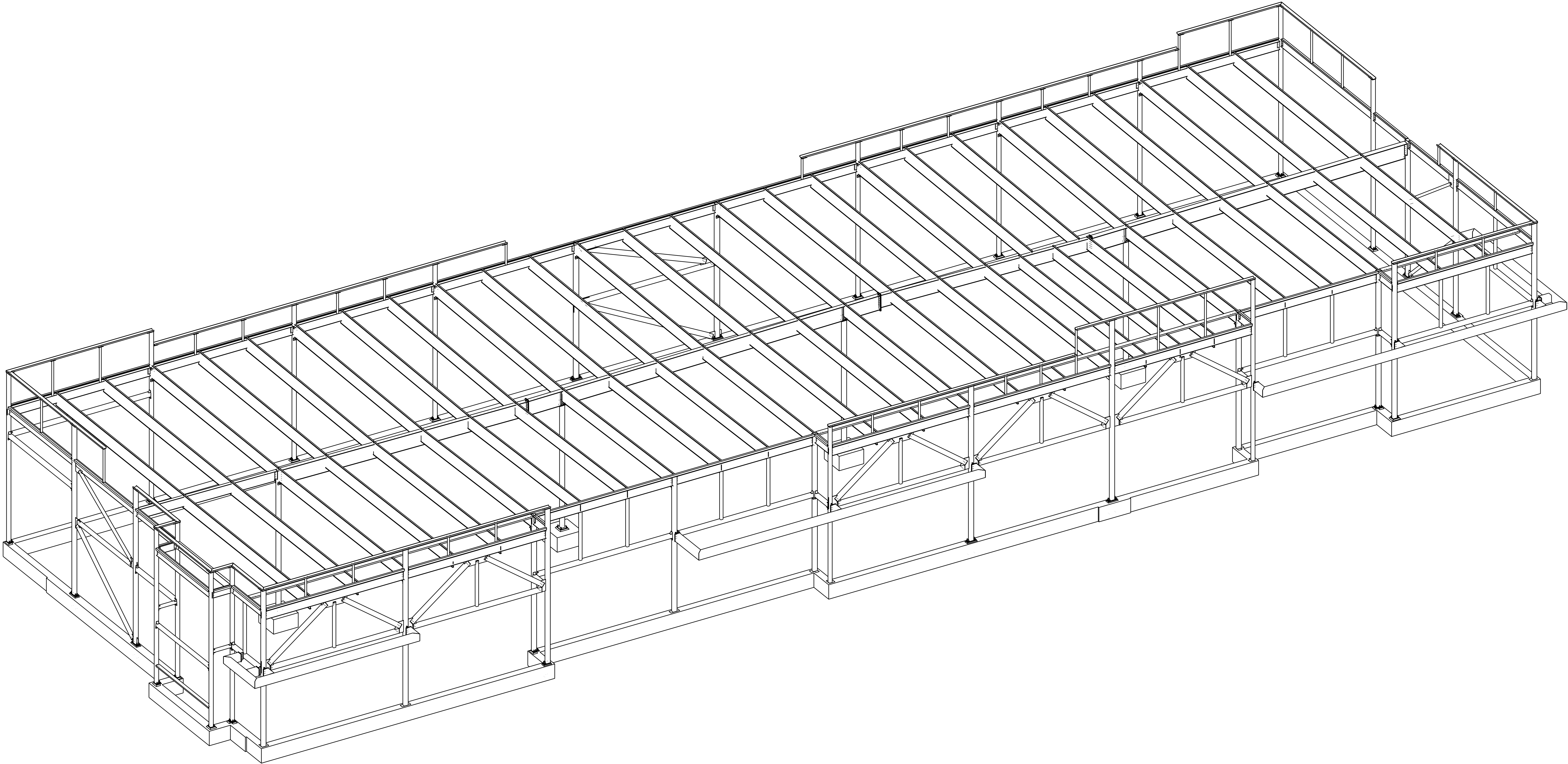
SMALL MISC AND LIGHT STRUCTURAL JOB FOR
STRUCTURAL STEEL PORTION OF A LARGE CHURCH

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



3d

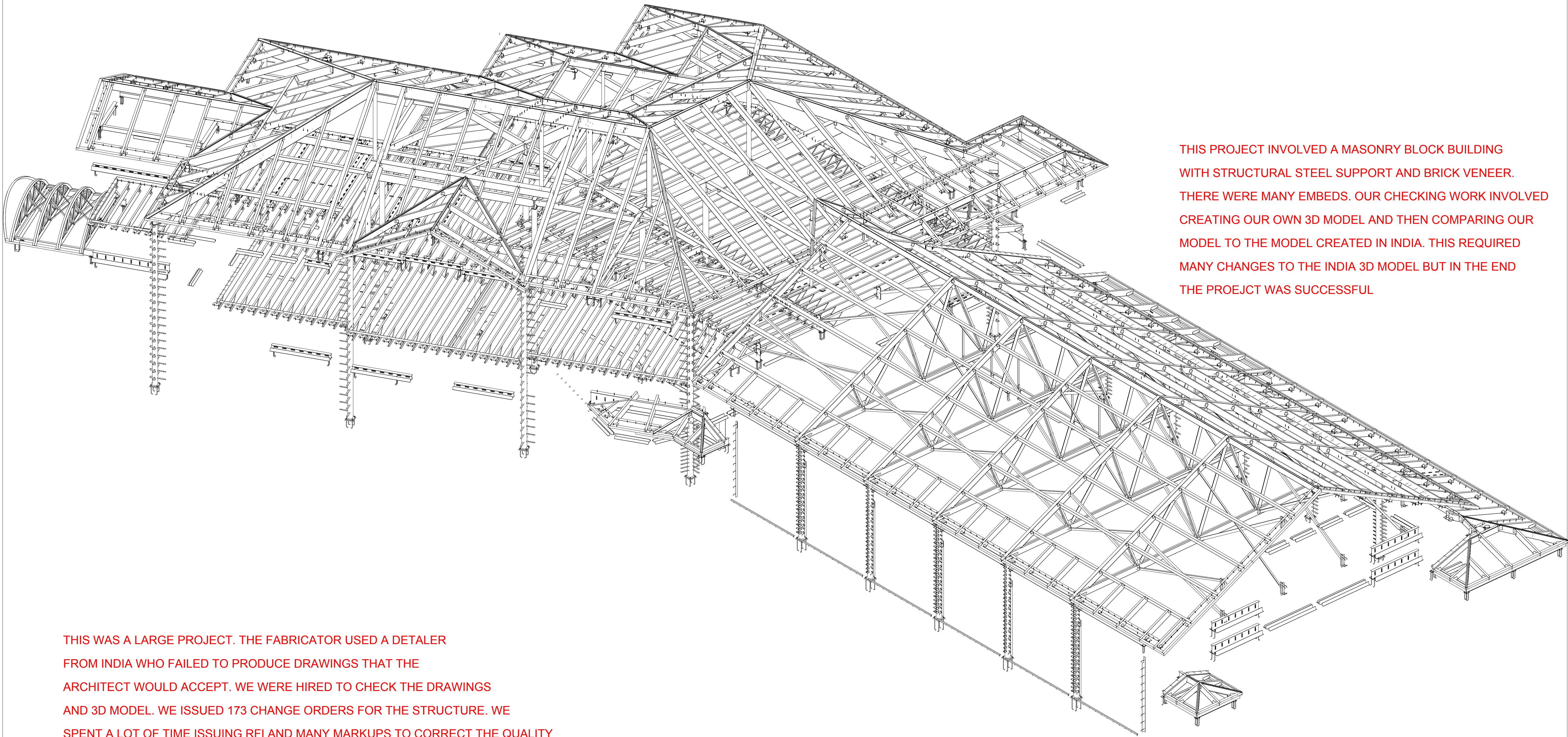
THIS PROJECT REQUIRED A VERY LARGE AMOUNT OF CHECKING AS THE
CENTER/MID SECTION OF THE BUILDING WAS CHANGED 3 TIMES BY THE OWNER.
THE STAIRS WERE CHANGED TWICE. THE DOUBLE MODELLING SYSTEM WE USE
PRODUCED EXCELLENT ACCURACY



3D VIEW

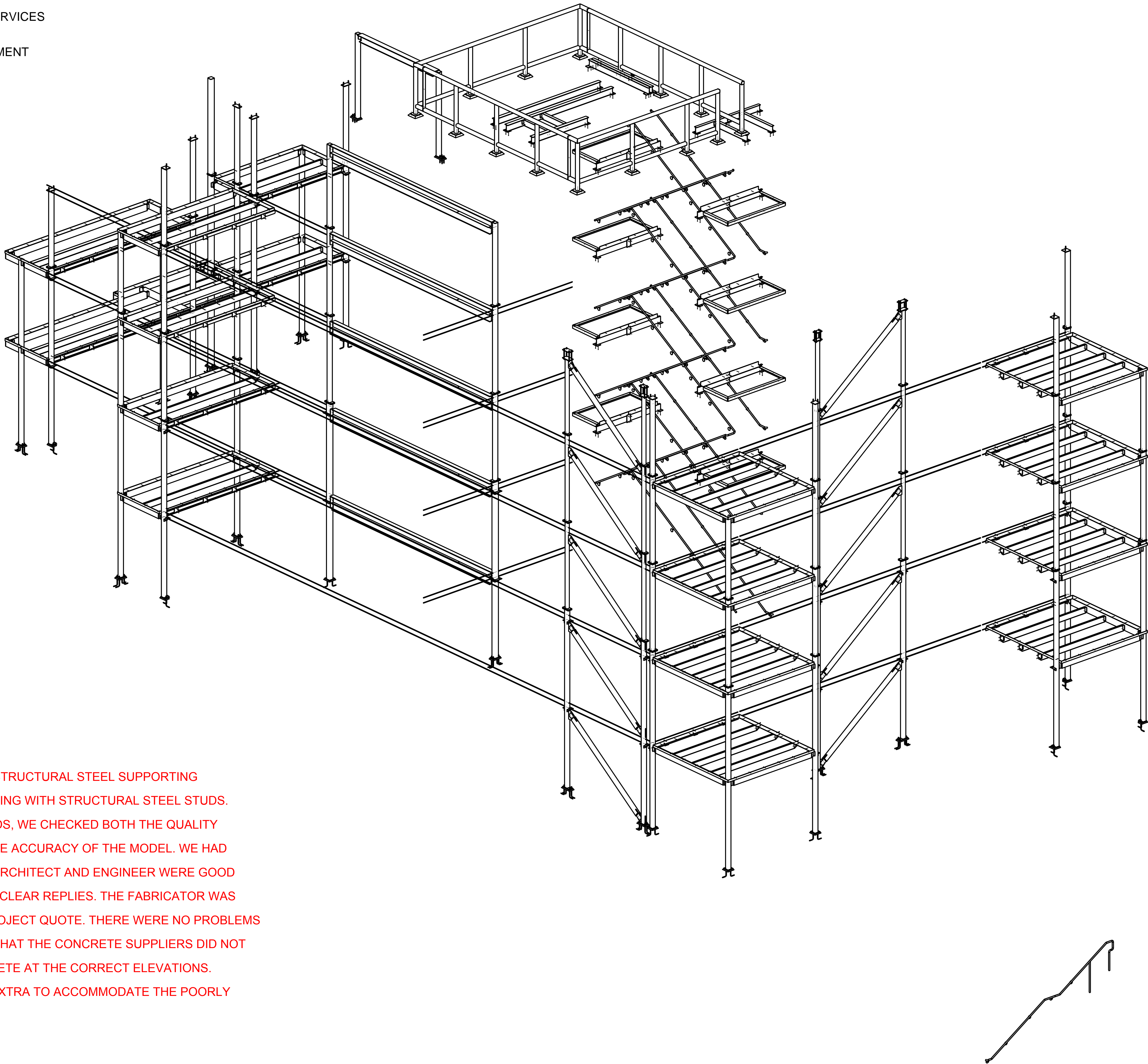
SMALL COMMERICAL RETAIL BUILDING- PROJECT INCLUDED
STRUCTURAL STEEL AND JOIST

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT

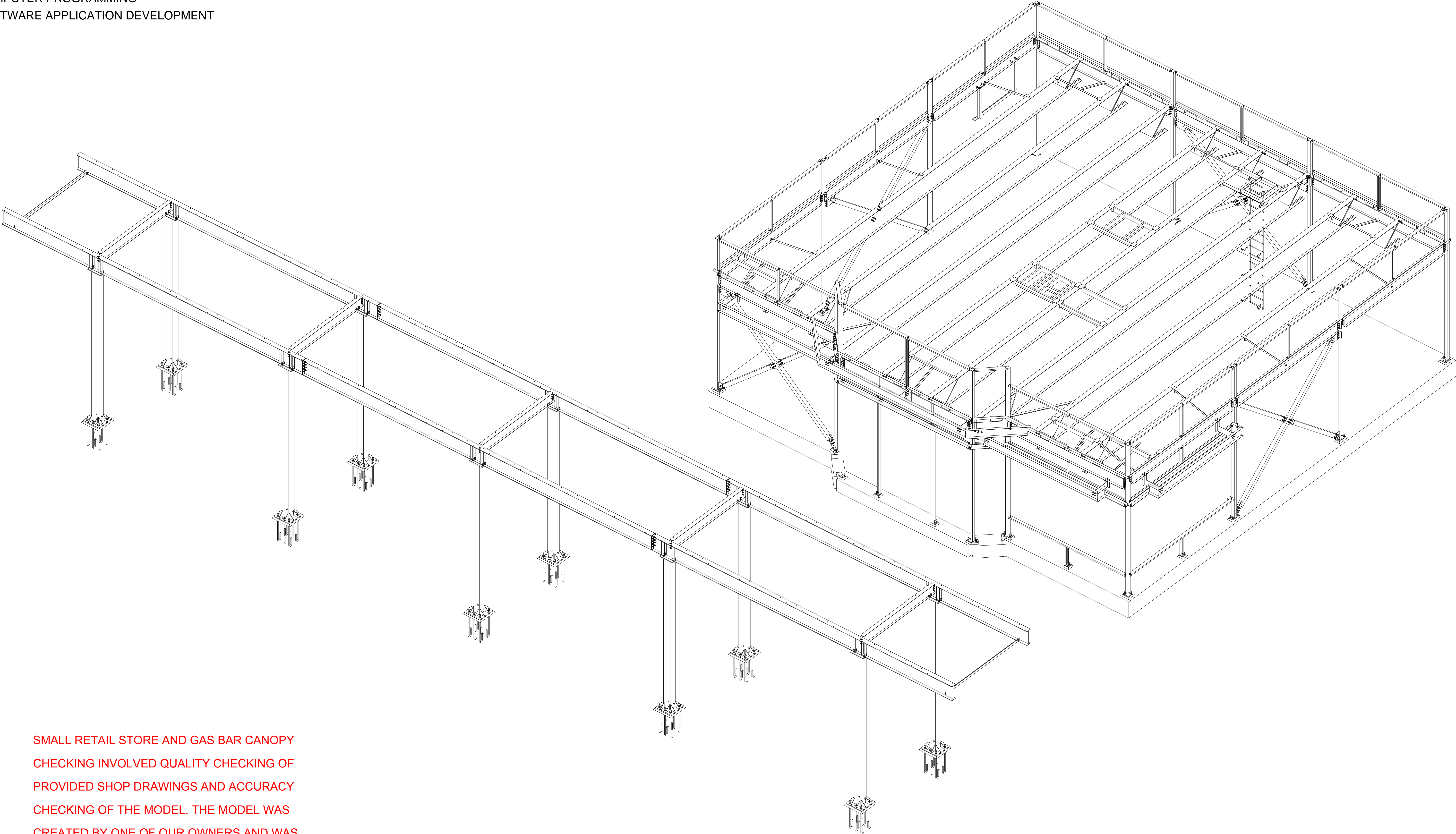


THIS PROJECT INVOLVED A MASONRY BLOCK BUILDING WITH STRUCTURAL STEEL SUPPORT AND BRICK VENEER. THERE WERE MANY EMBEDS. OUR CHECKING WORK INVOLVED CREATING OUR OWN 3D MODEL AND THEN COMPARING OUR MODEL TO THE MODEL CREATED IN INDIA. THIS REQUIRED MANY CHANGES TO THE INDIA 3D MODEL BUT IN THE END THE PROEJCT WAS SUCCESSFUL

THIS WAS A LARGE PROJECT. THE FABRICATOR USED A DETALER FROM INDIA WHO FAILED TO PRODUCE DRAWINGS THAT THE ARCHITECT WOULD ACCEPT. WE WERE HIRED TO CHECK THE DRAWINGS AND 3D MODEL. WE ISSUED 173 CHANGE ORDERS FOR THE STRUCTURE. WE SPENT A LOT OF TIME ISSUING RFI AND MANY MARKUPS TO CORRECT THE QUALITY OF THE DRAWINGS. THE ORIGINAL DETAILERS FROM INDIA WERE FIRED FROM THE PROEJCT AND THE FABRICATOR HIRED ANOTHER DETAILER FROM INDIA. WE WORKED WITH THESE DETAILERS UNTIL THE PROJECT WAS PERFECT. THE FABRICATOR WAS PAID FOR 100% OF THE PROJECT QUOTE.

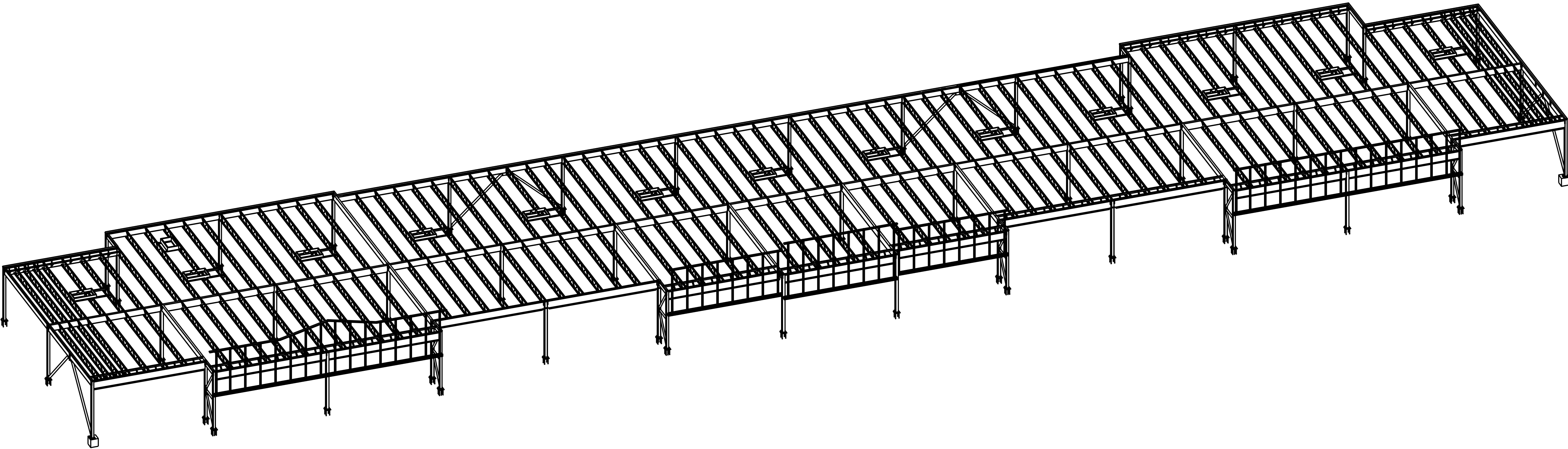


THIS PROJECT INVOLVED STRUCTURAL STEEL SUPPORTING COMFLOOR AND INTERACTING WITH STRUCTURAL STEEL STUDS. THERE WERE MANY EMBEDS, WE CHECKED BOTH THE QUALITY OF THE DRAWINGS AND THE ACCURACY OF THE MODEL. WE HAD TO ISSUE 20 RFI BUT THE ARCHITECT AND ENGINEER WERE GOOD TO PROVIDE PROMPT AND CLEAR REPLIES. THE FABRICATOR WAS PAID FOR 100% OF THE PROJECT QUOTE. THERE WERE NO PROBLEMS AT THE JOB SITE EXCEPT THAT THE CONCRETE SUPPLIERS DID NOT PLACE ALL OF THE CONCRETE AT THE CORRECT ELEVATIONS. THE ERECTOR WAS PAID EXTRA TO ACCOMMODATE THE POORLY PLACED CONCRETE.



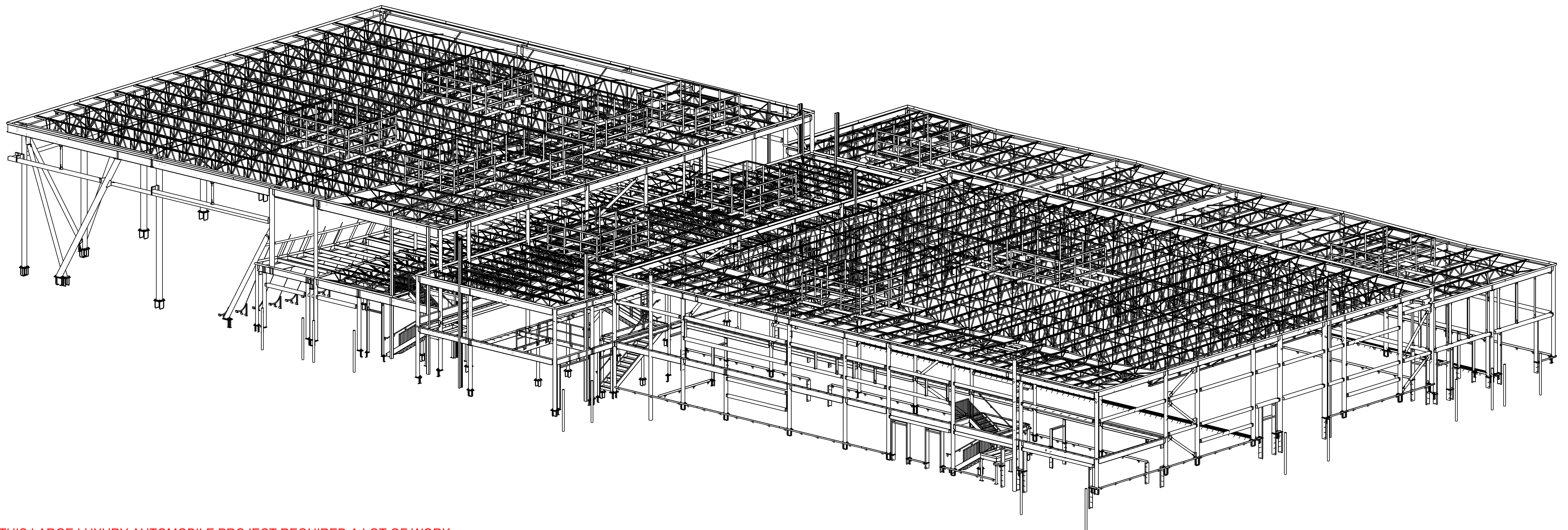
SMALL RETAIL STORE AND GAS BAR CANOPY
CHECKING INVOLVED QUALITY CHECKING OF
PROVIDED SHOP DRAWINGS AND ACCURACY
CHECKING OF THE MODEL. THE MODEL WAS
CREATED BY ONE OF OUR OWNERS AND WAS
WELL COMPLETED, THIS WAS AN EASY PROJECT.

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



3d

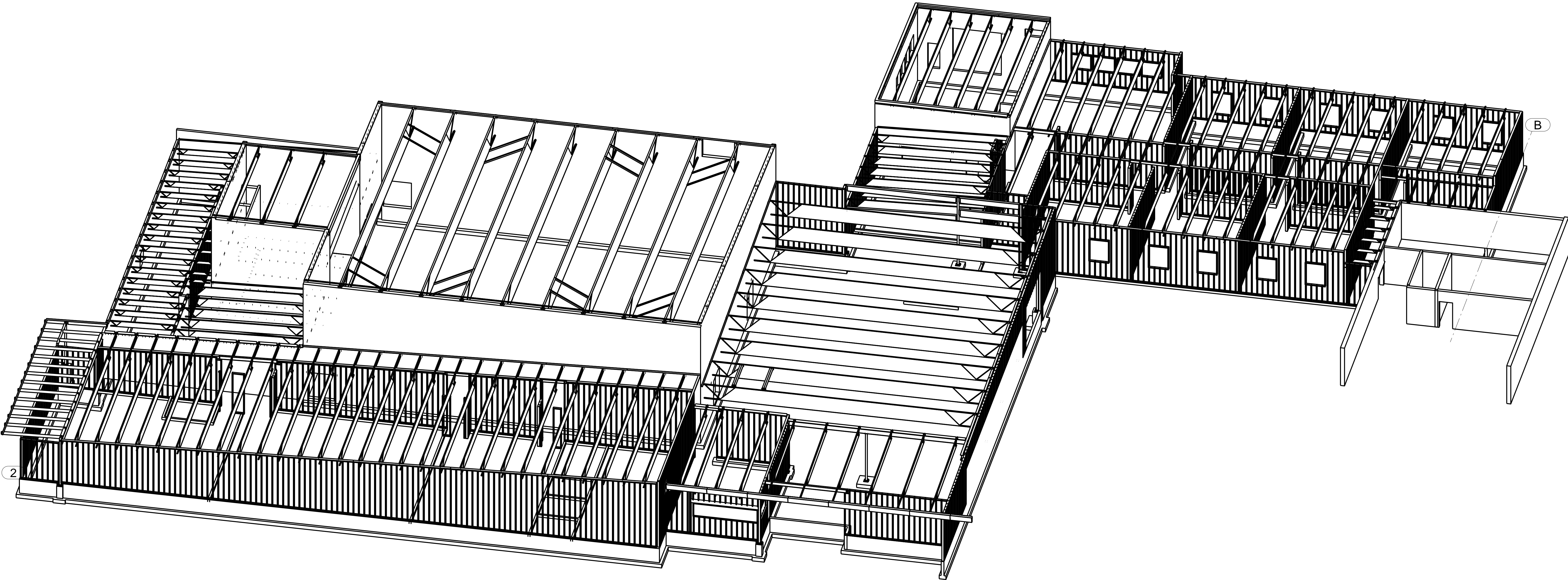
THIS COMMERCIAL RETAIL SHOPPING BUILDING REQUIRED
NORMAL QUALITY CHECKING OF LAYOUT, ASSEMBLY AND
PART DRAWINGS, A COMPARISON MODEL WAS CREATED
TO INSURE THE ACCURACY OF THE MODEL PRODUCING THE
DRAWINGS. SIX RFI WERE ISSUED.



3D-VIEW

THIS LARGE LUXURY AUTOMOBILE PROJECT REQUIRED A LOT OF WORK. SEVENTY SIX RFI WERE ISSUED. THIS WAS THE LAST PROJECT THAT THE ENGINEER WAS GOING TO DO BEFORE HE RETIRED, SINCE HIS STAFF KNEW THAT THEIR JOBS WERE CLOSE TO BEING OVER, ALL OF THE DRAFTING TECHNICIANS QUIT AND LEFT FOR WORK WITH OTHER ENGINEERS BEFORE THE PROJECT WAS OVER. THE INCOMPLETE STRUCTURAL DESIGN DRAWNGS WERE FULL OF SERIOUS MISTAKES. OUR WORK OF CHECKING THE MODEL AND WRITING RFI SAVED THE PROJECT. THE FABRICATOR AND GENERAL CONTRACTOR WERE VERY HAPPY. THE BUILDING HAD TIGHT DEADLINES THAT HAD TO BE MET AND OUR WORK ALLOWED THE STRUCTURAL STEEL PORTION OF THE JOB TO SUCCEED.

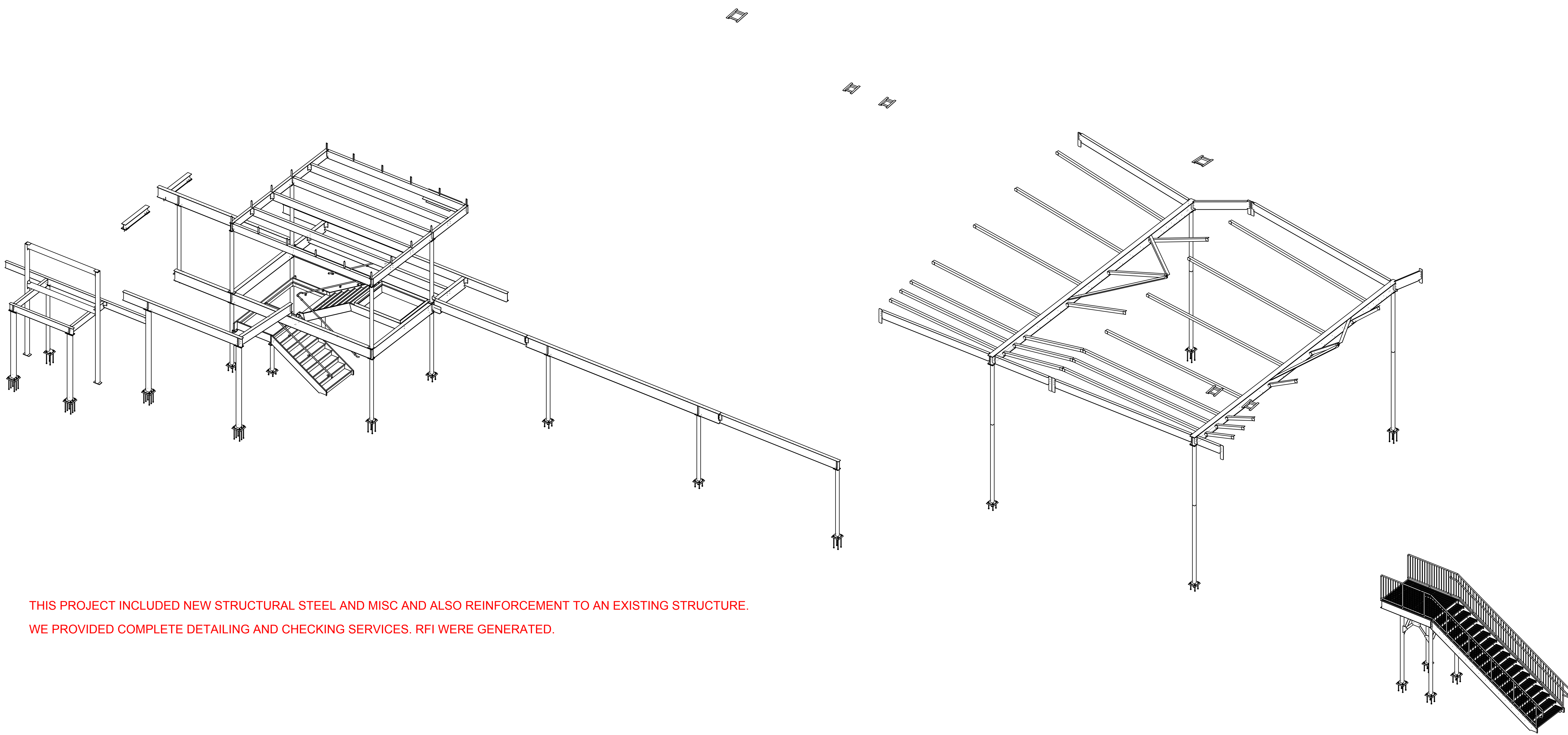
STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



3D_view

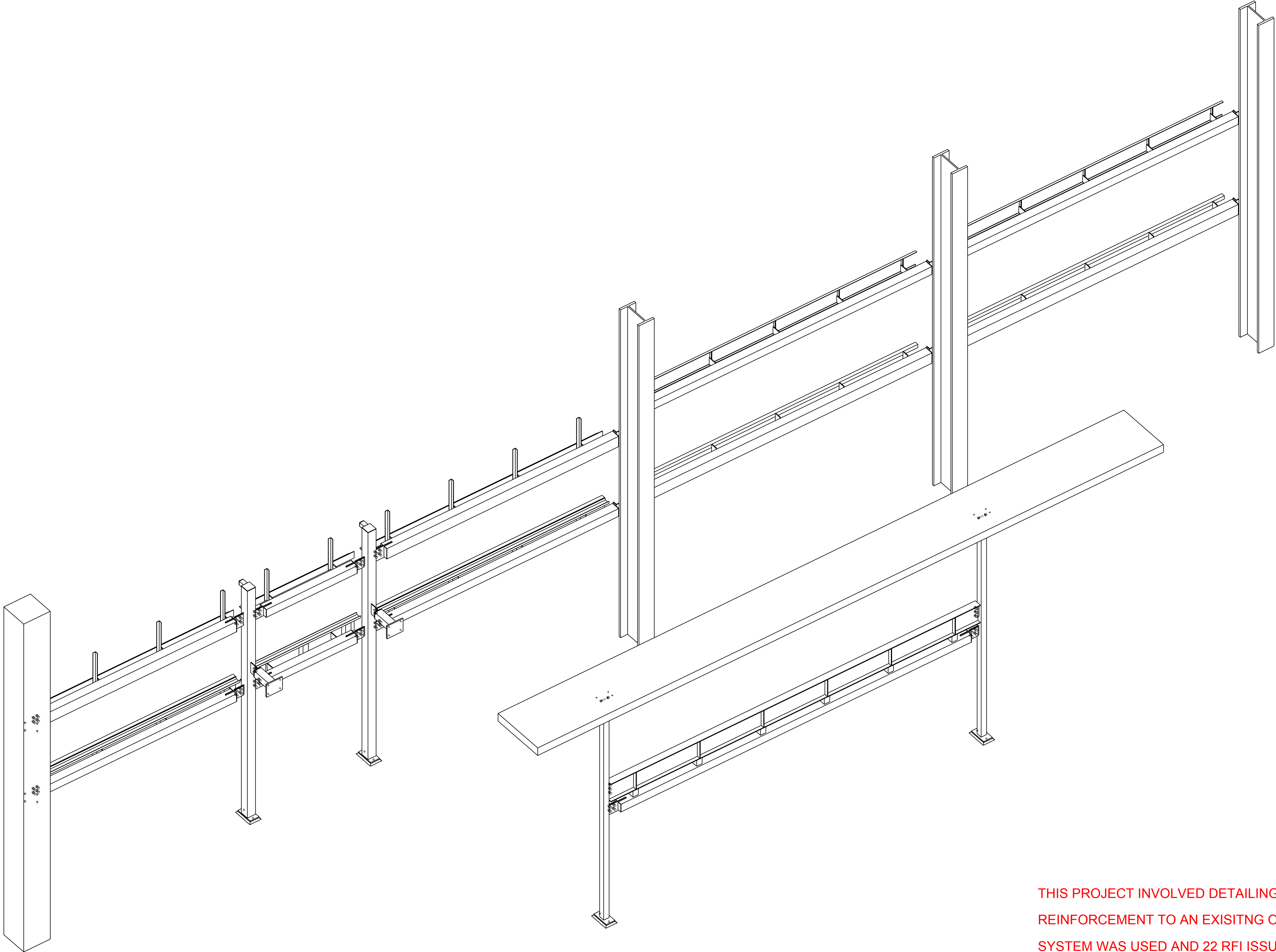
WE PROVIDED CHECKING AND RFI SERVICES FOR THIS COMBINATION
OF NEW STRUCTURAL STEEL AND REINFORCEMENT TO EXISTING STRUCTURE
THE JOB REQUIRED 19 RFI AND SOME OF THE RFI RESPONSES WERE NOT CLEAR
SO FOLLOWUP ACTION NEEDED BE TAKEN.
AS WITH MOST OF OUR PROJECTS THE ORIGINAL DETAILERS PROVIDED A 3D MODEL,
WE CREATED OUR OWN 3D MODEL AND THEN USED OUR COMPARISON METHODS TO
ENSURE THE MODEL ACCURACY AS WELL AS QUALITY CHECKING OF DRAWINGS.

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



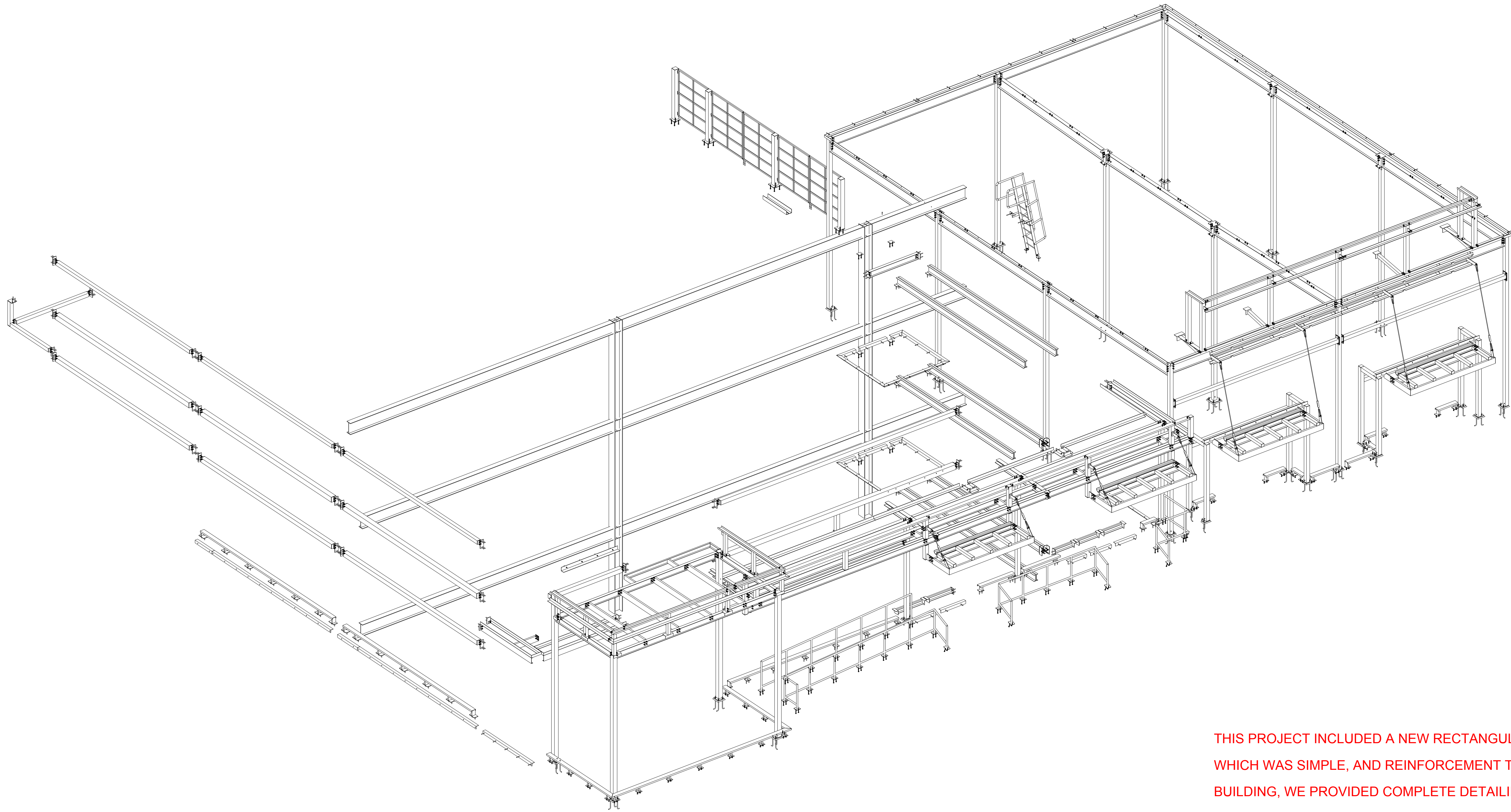
THIS PROJECT INCLUDED NEW STRUCTURAL STEEL AND MISC AND ALSO REINFORCEMENT TO AN EXISTING STRUCTURE.
WE PROVIDED COMPLETE DETAILING AND CHECKING SERVICES. RFI WERE GENERATED.

3D_view



1 3d view

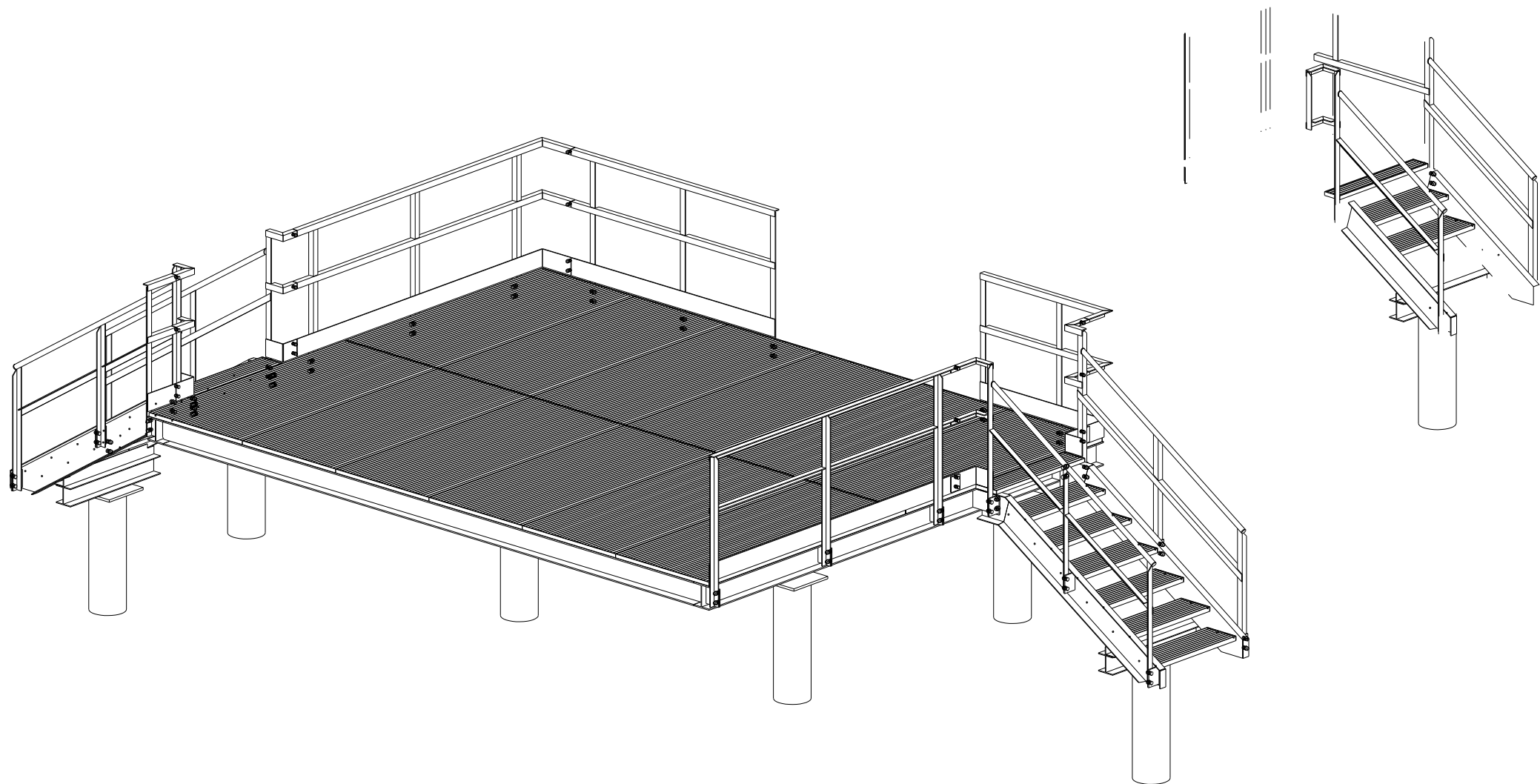
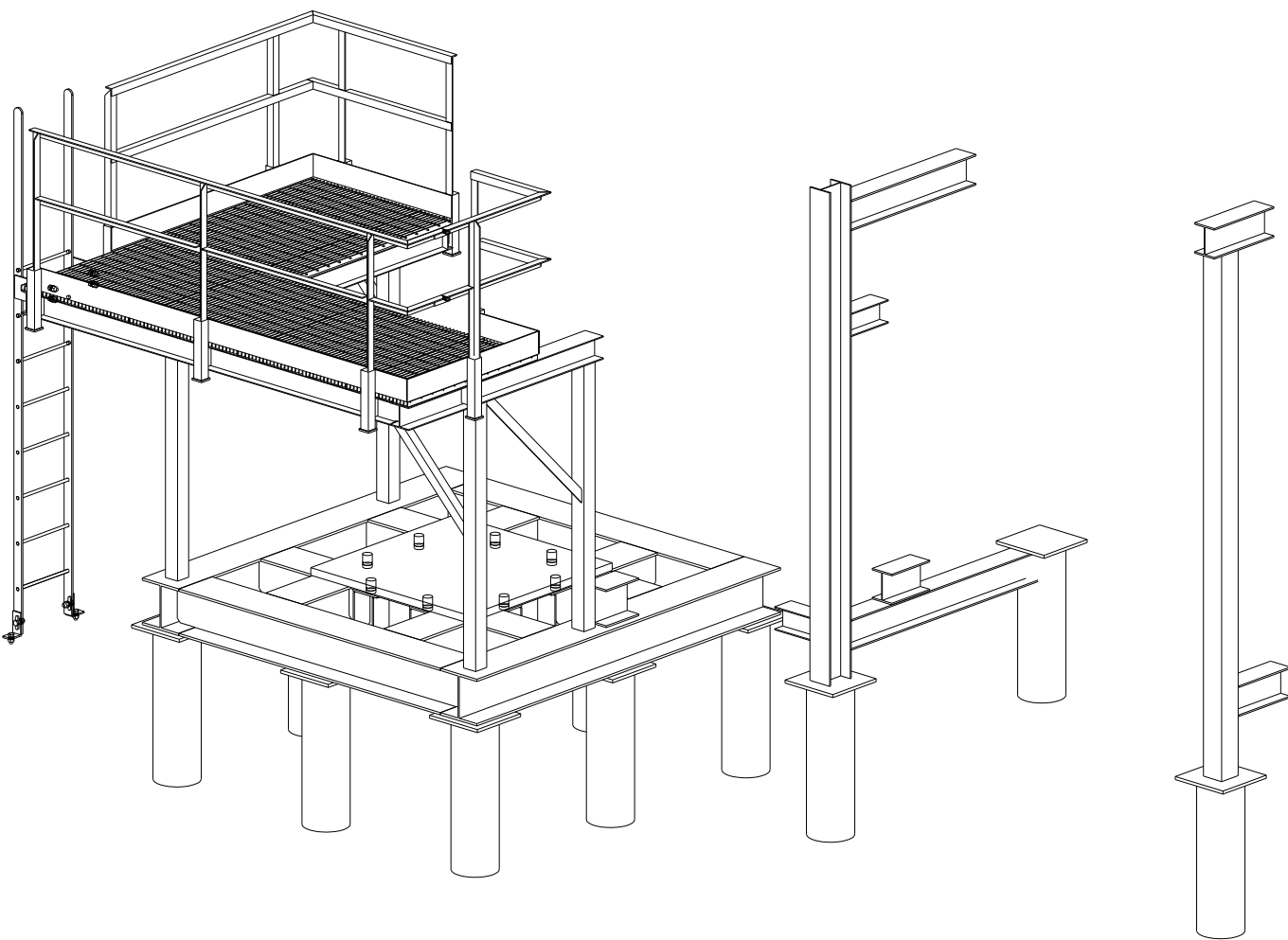
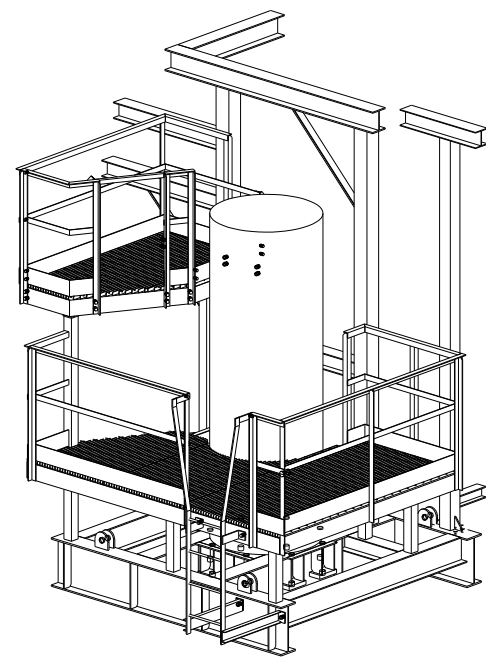
THIS PROJECT INVOLVED DETAILING AND CHECKING FOR
REINFORCEMENT TO AN EXISITNG OFFICE TOWER . THE DOUBLE MODEL
SYSTEM WAS USED AND 22 RFI ISSUED AS THE DESIGN DRAWINGS
DID NOT INCLUDE ACCURATE DIMENSIONS



1 3D View

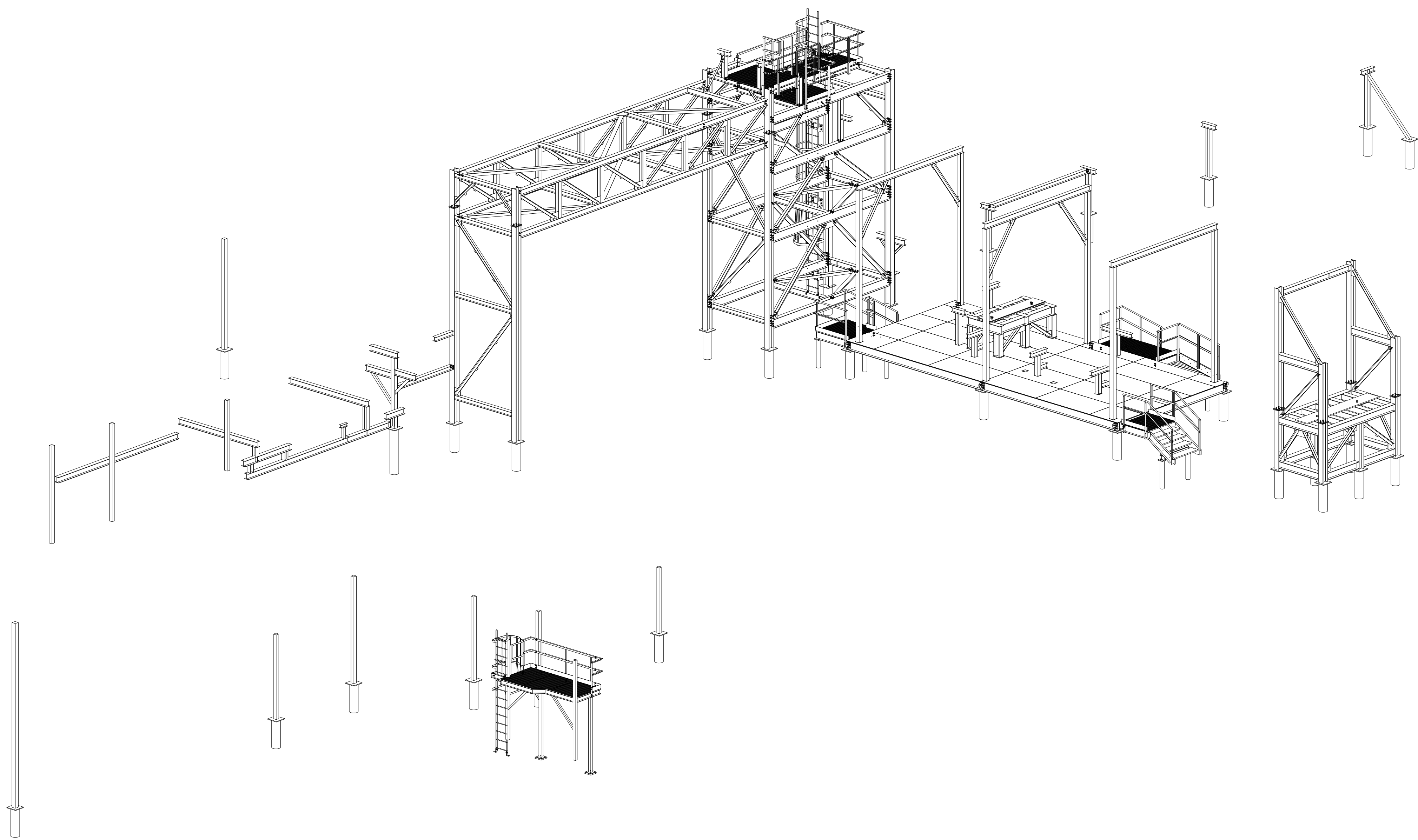
THIS PROJECT INCLUDED A NEW RECTANGULAR BUILDING WHICH WAS SIMPLE, AND REINFORCEMENT TO AN EXISTING OFFICE BUILDING, WE PROVIDED COMPLETE DETAILING, CHECKING AND RFI GENERATION SERVICE, THE REINFORCEMENT PORTION OF THE BUILDING WAS DIFFICULT AND WAS 100% SUCCESSFUL.

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT

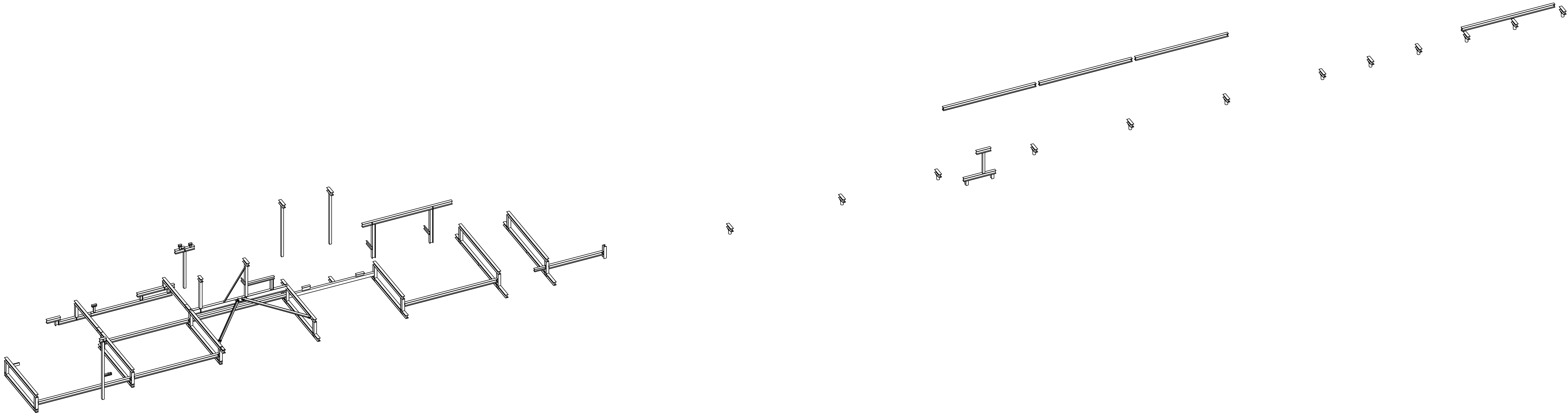


WE PROVIDED CHECKING SERVICES ONLY FOR THESE OIL PLATFORM STRUCTURES
WE GENERATED A 3D COMPARISON MODEL TO INSURE THE ACCURACY OF THE
DRAWINGS. QUALITY CHECKING OF DRAWINGS WAS PROVIDED.

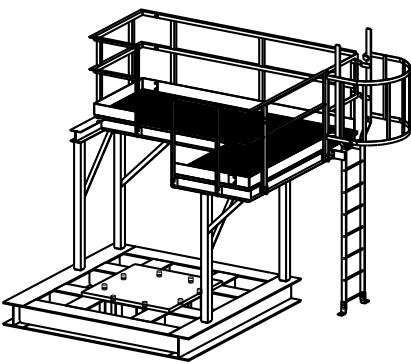
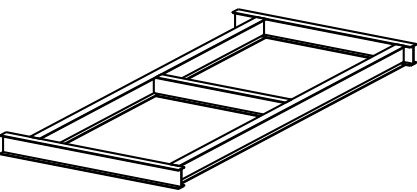
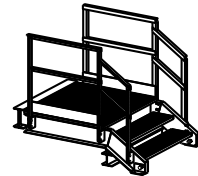
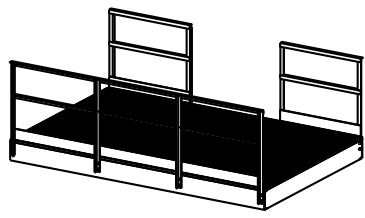
STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT

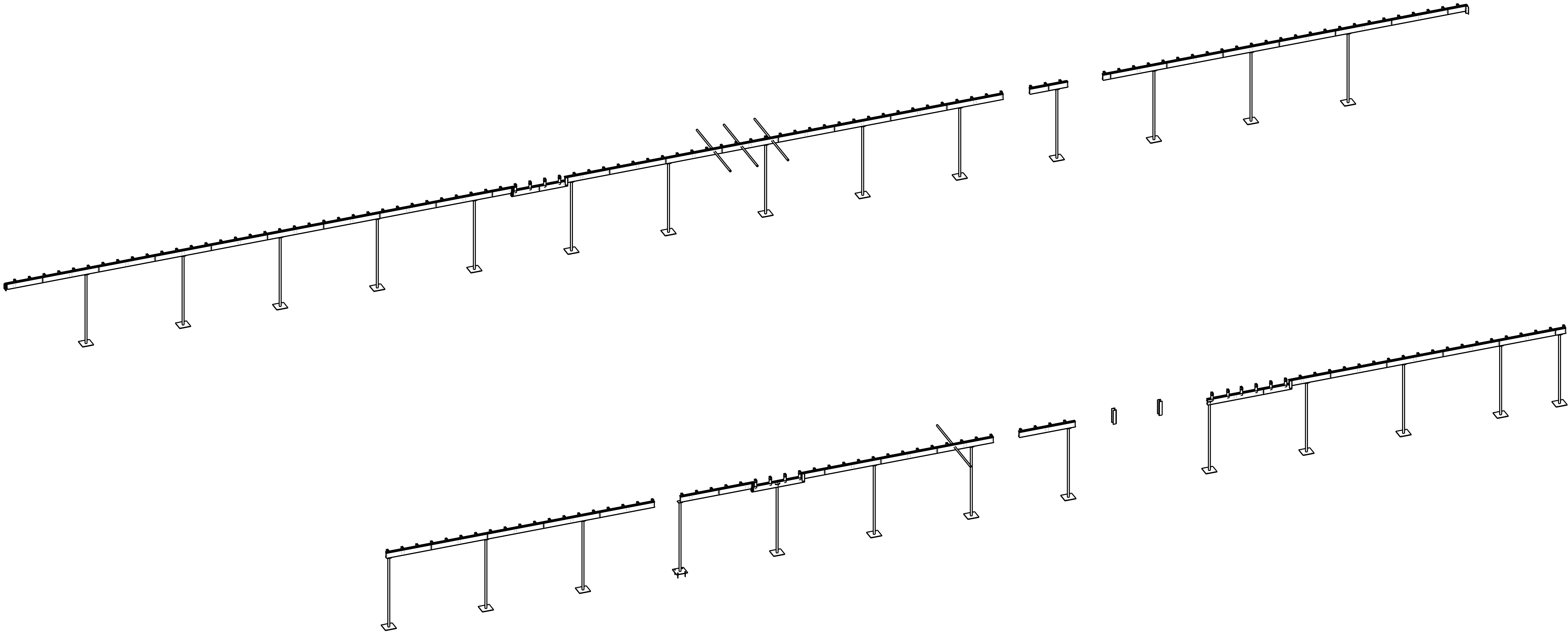


WE PROVIDED RFI GENERATION, MODEL ACCURACY CHECKING
AND DRAWINGS CHECKING FOR THESE OIL RELATED PLATFORMS.



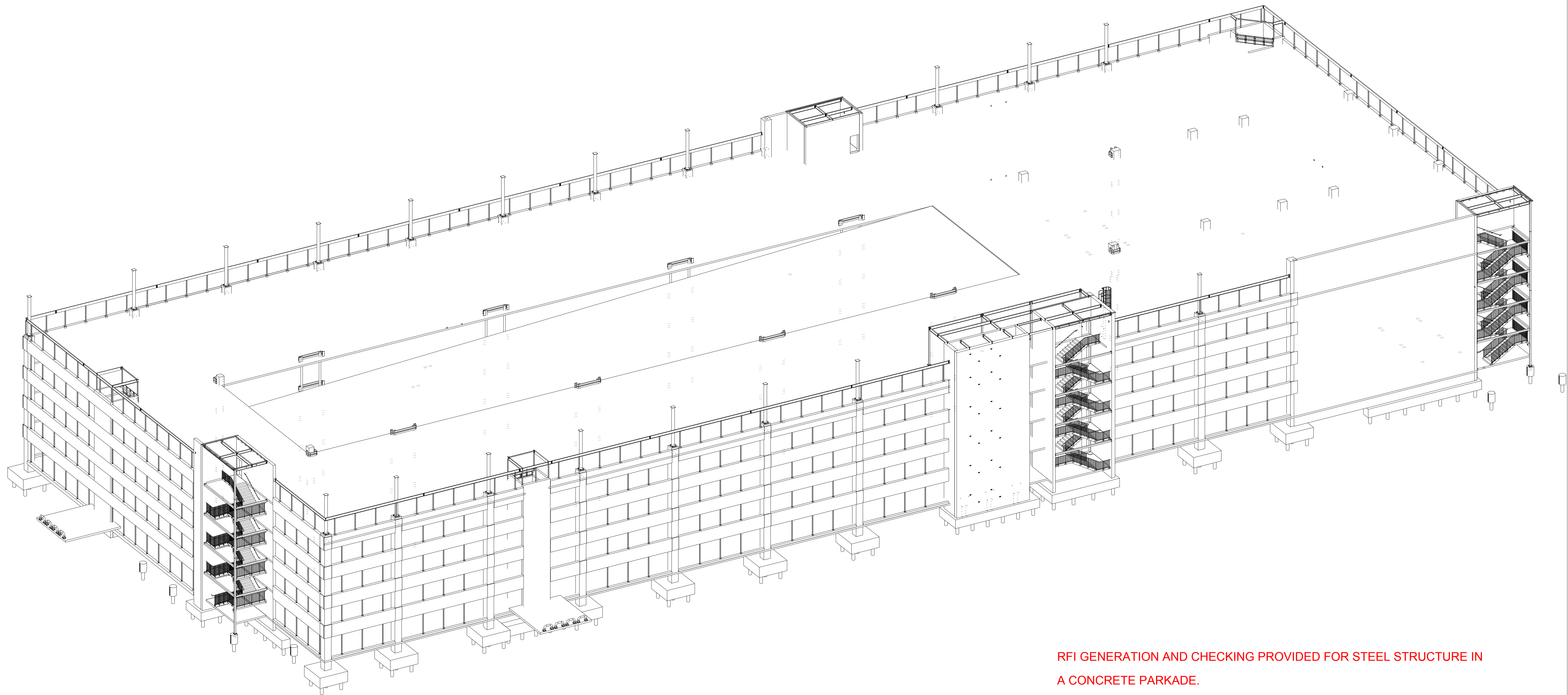
CHECKING PROVIDED FOR OIL RELATED STRUCTURE.



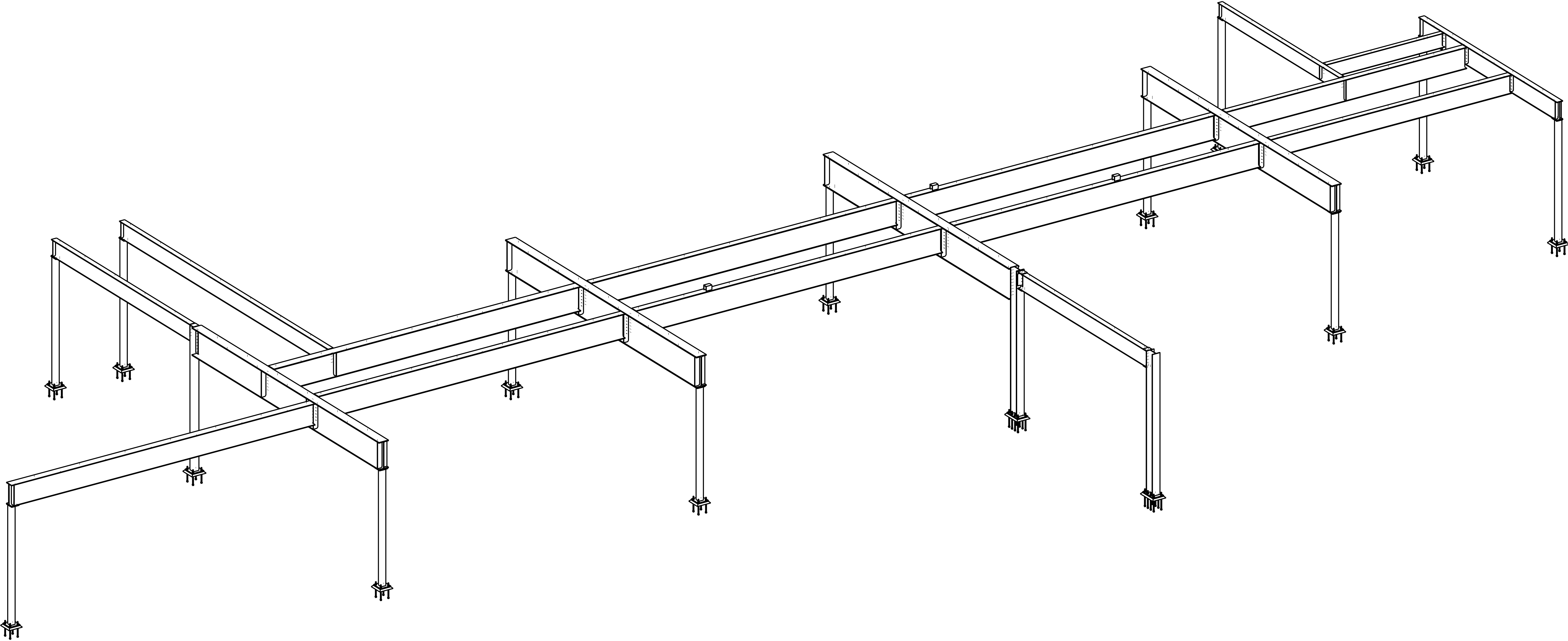


3D view

COMPLETE DETAILING AND CHECKING SERVICES PROVIDED FOR BASEMENT
REINFORCEMENT.

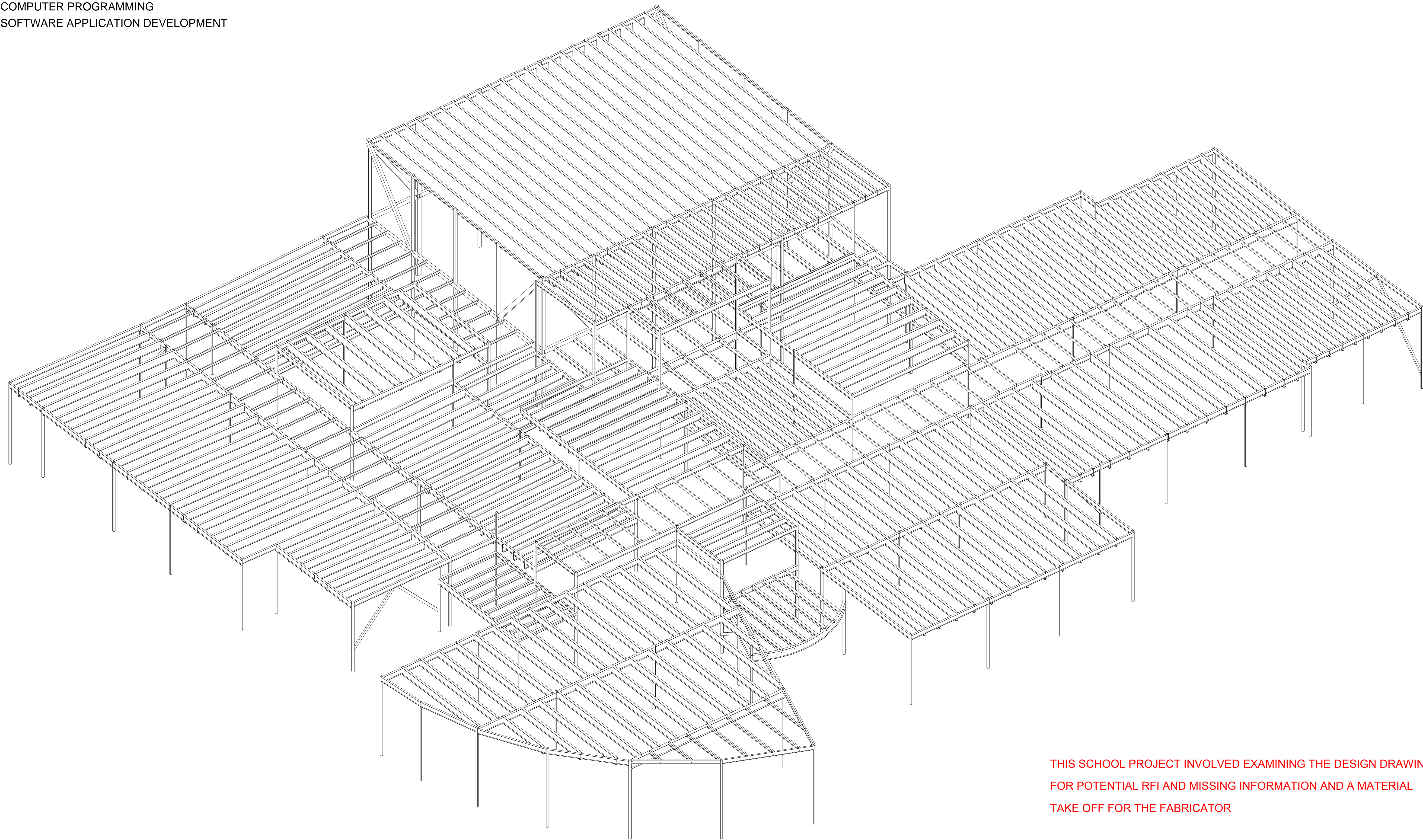


RFI GENERATION AND CHECKING PROVIDED FOR STEEL STRUCTURE IN
A CONCRETE PARKADE.



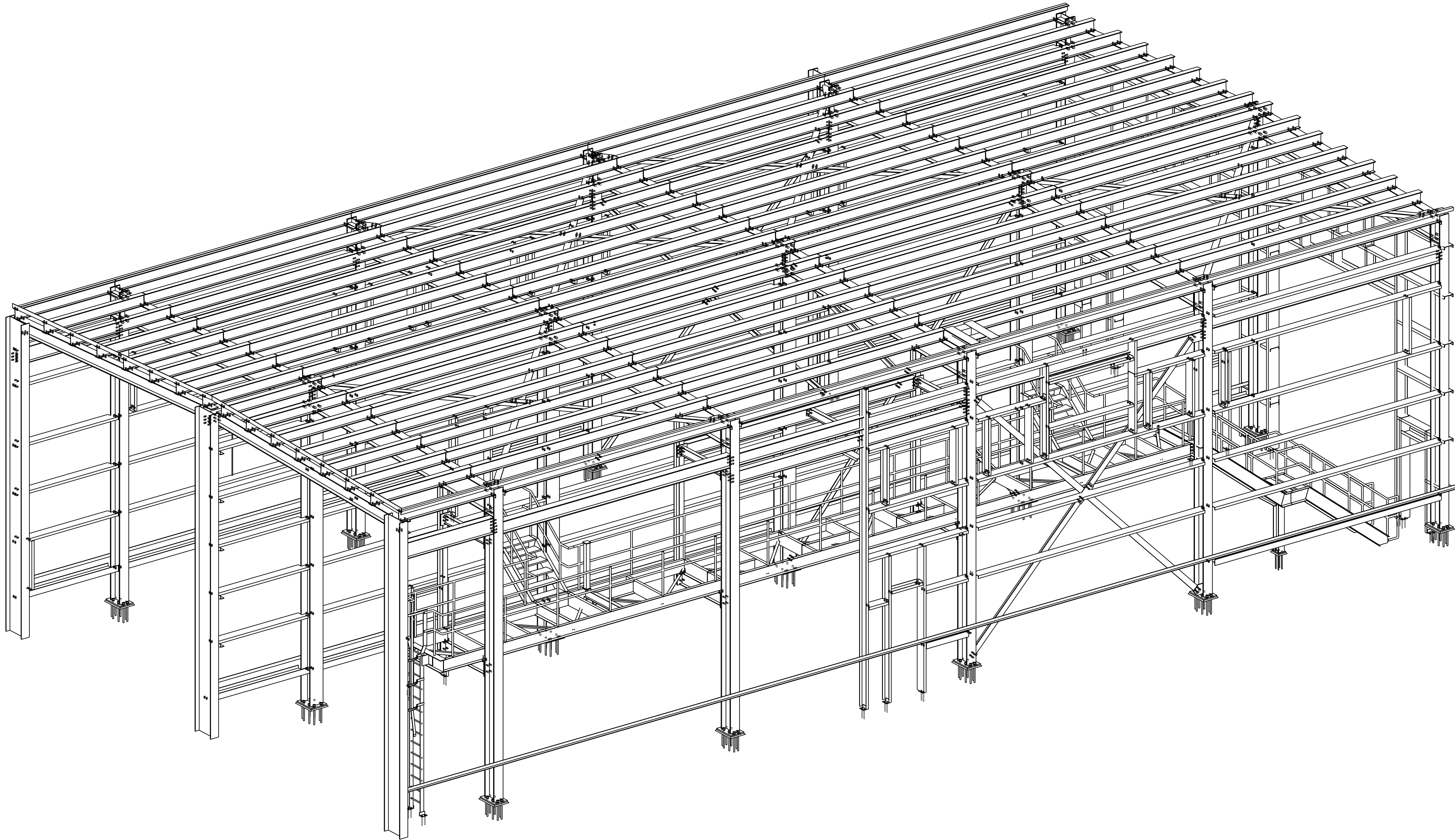
COMPLETE DETAILING AND CHECKING SERVICES PROVIDED
FOR BUILDING FOUNDATION.

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



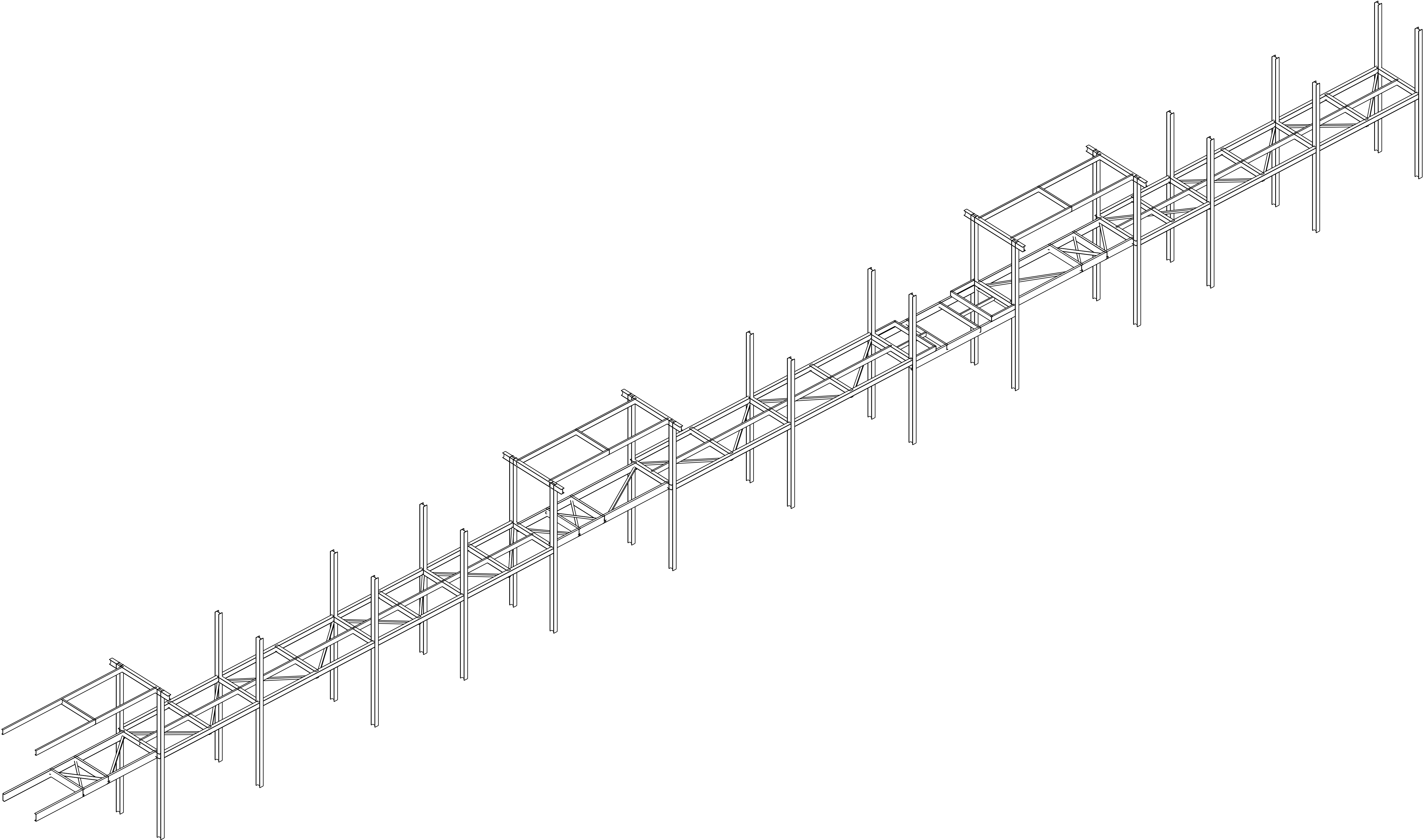
THIS SCHOOL PROJECT INVOLVED EXAMINING THE DESIGN DRAWINGS
FOR POTENTIAL RFI AND MISSING INFORMATION AND A MATERIAL
TAKE OFF FOR THE FABRICATOR

STEEL DETAILING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



1 3D

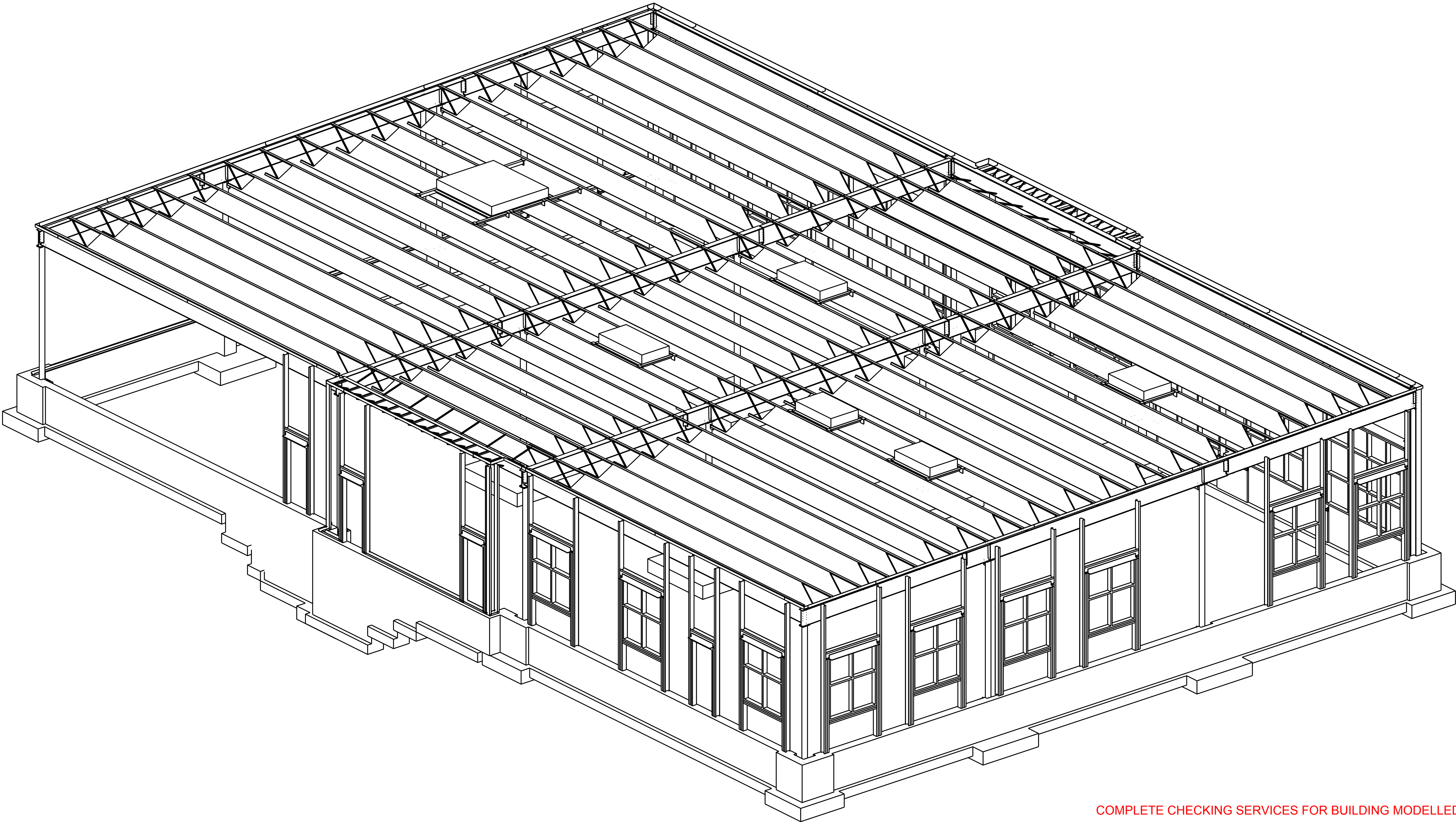
COMPLETE CHECKING AND DETAILING SERVICES FOR
A RAIL CAR LOADOUT FACILITY



3D VIEW

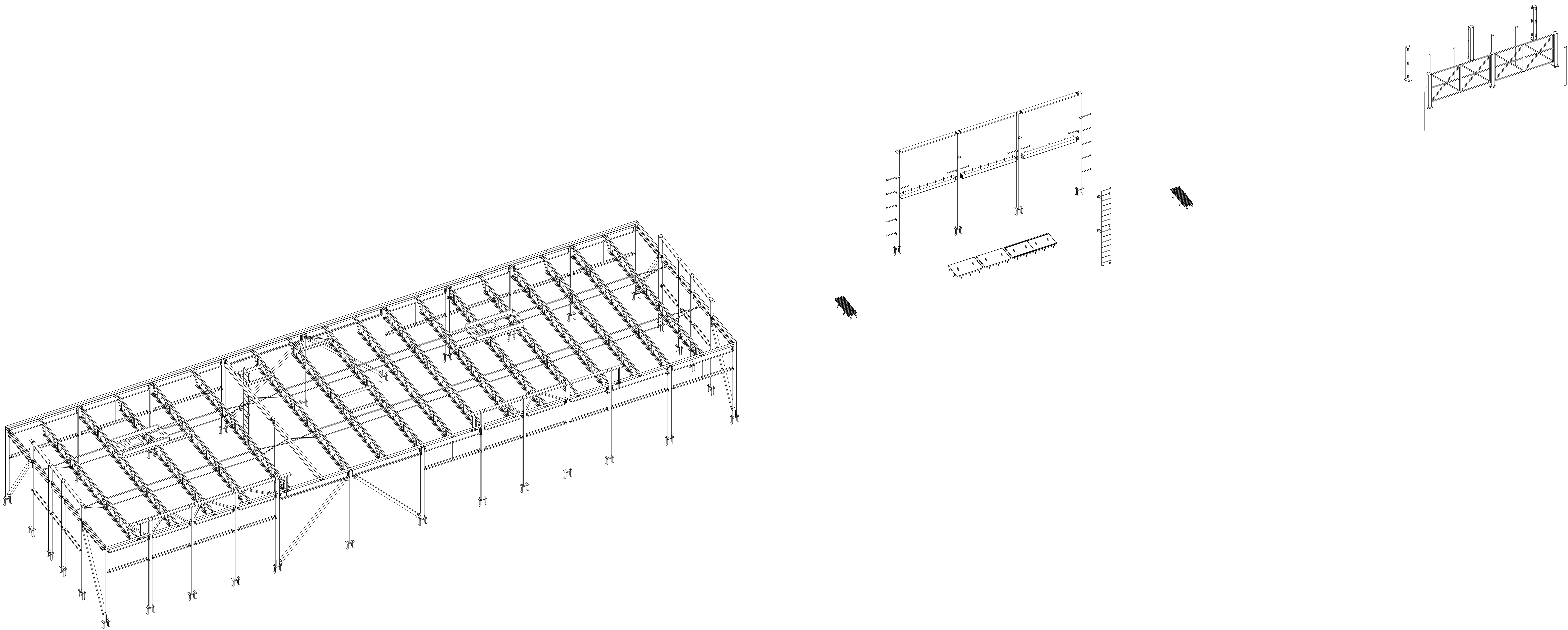
COMPLETE DETAILING AND CHECKING FOR PIPE RACKS
WHEN WE ARE DETAILING THE COMPLETE PROJECT WE
STILL USE THE DOUBLE MODEL SYSTEM AND COMPARISON
TECHNIQUES.

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



3D_view

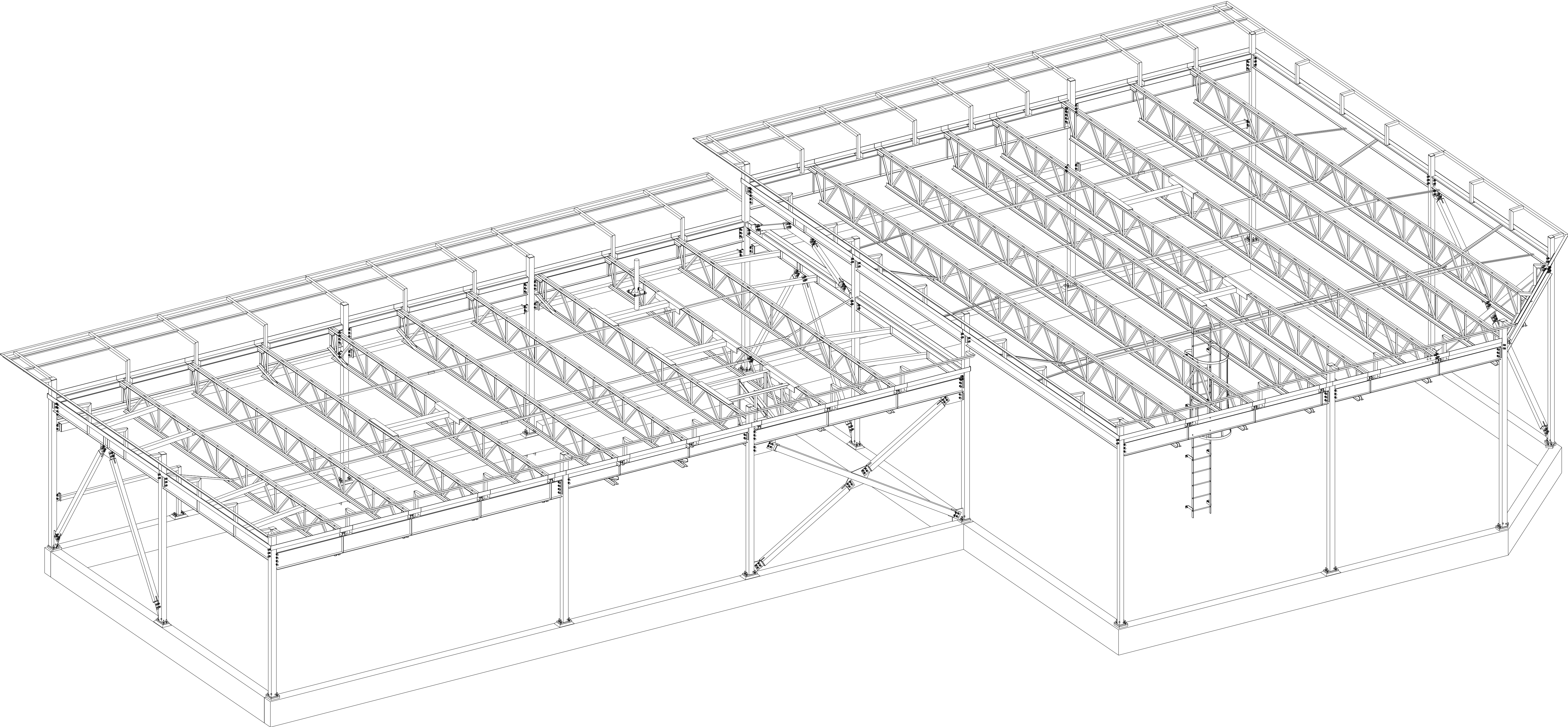
COMPLETE CHECKING SERVICES FOR BUILDING MODELLED
IN INDIA. QUALITY CHECKING OF DRAWINGS WAS NEEDED
TO PROVIDE CLEAR COMMUNICATION TO SHOP WORKERS.
AFTER WE CREATED A COMPARISON MODEL, THERE WERE ONLY
ABOUT 6 CHANGE NOTICES REQUIRED, BUT THE DRAWINGS HAD
MANY MARKUPS.



1 3D VIEW

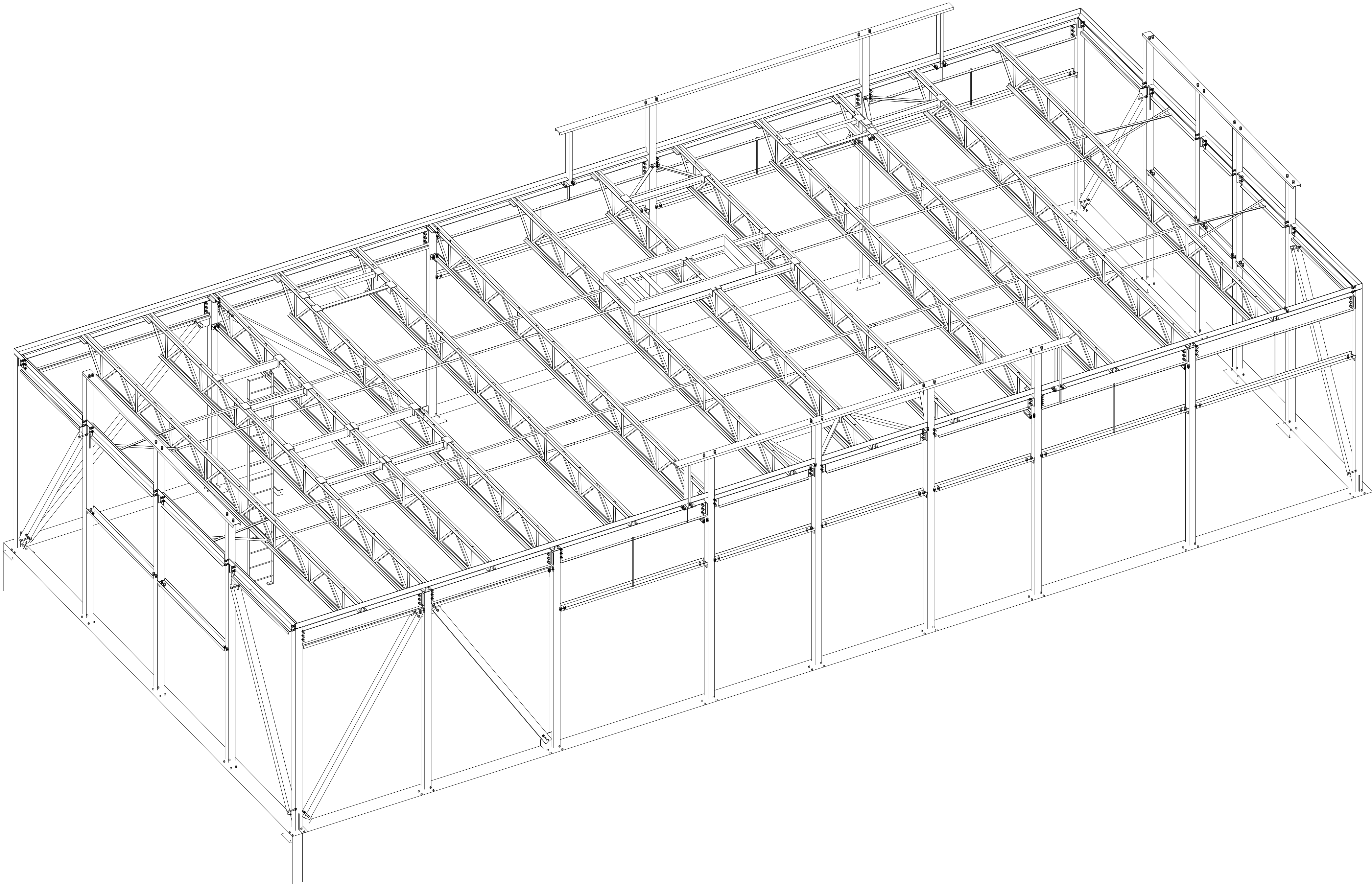
COMPLETE DETAILING SERVICES FOR
GAS BAR RETAIL STORE AND CARWASH.
A COMPARISON AND MAIN MODEL WERE
GENERATED . THE PROJECT WAS 100%
ACCURATE

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



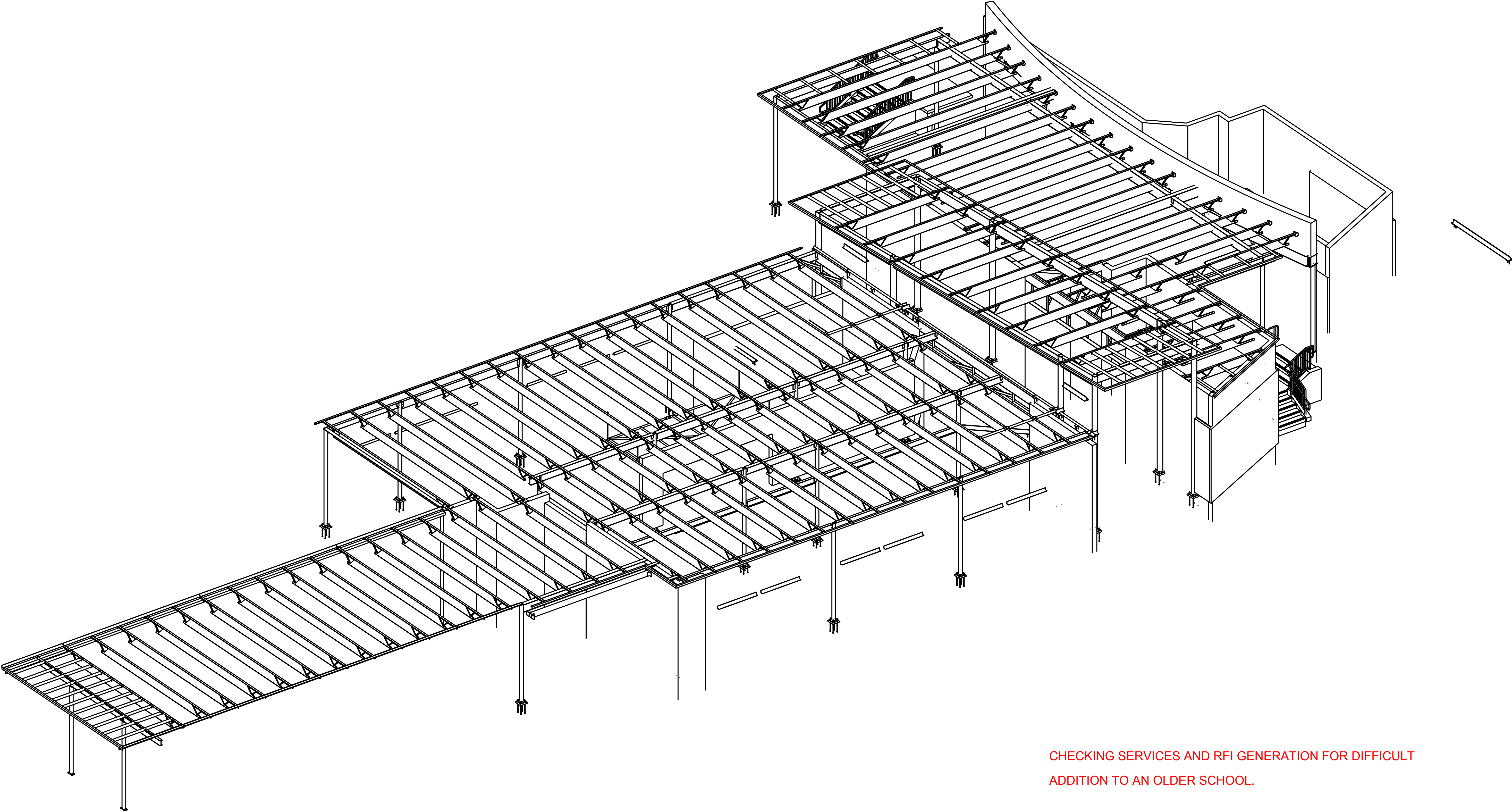
1 3d

COMPLETE DETAILING AND CHECKING
FOR RETAIL STORE



1 3D VIEW

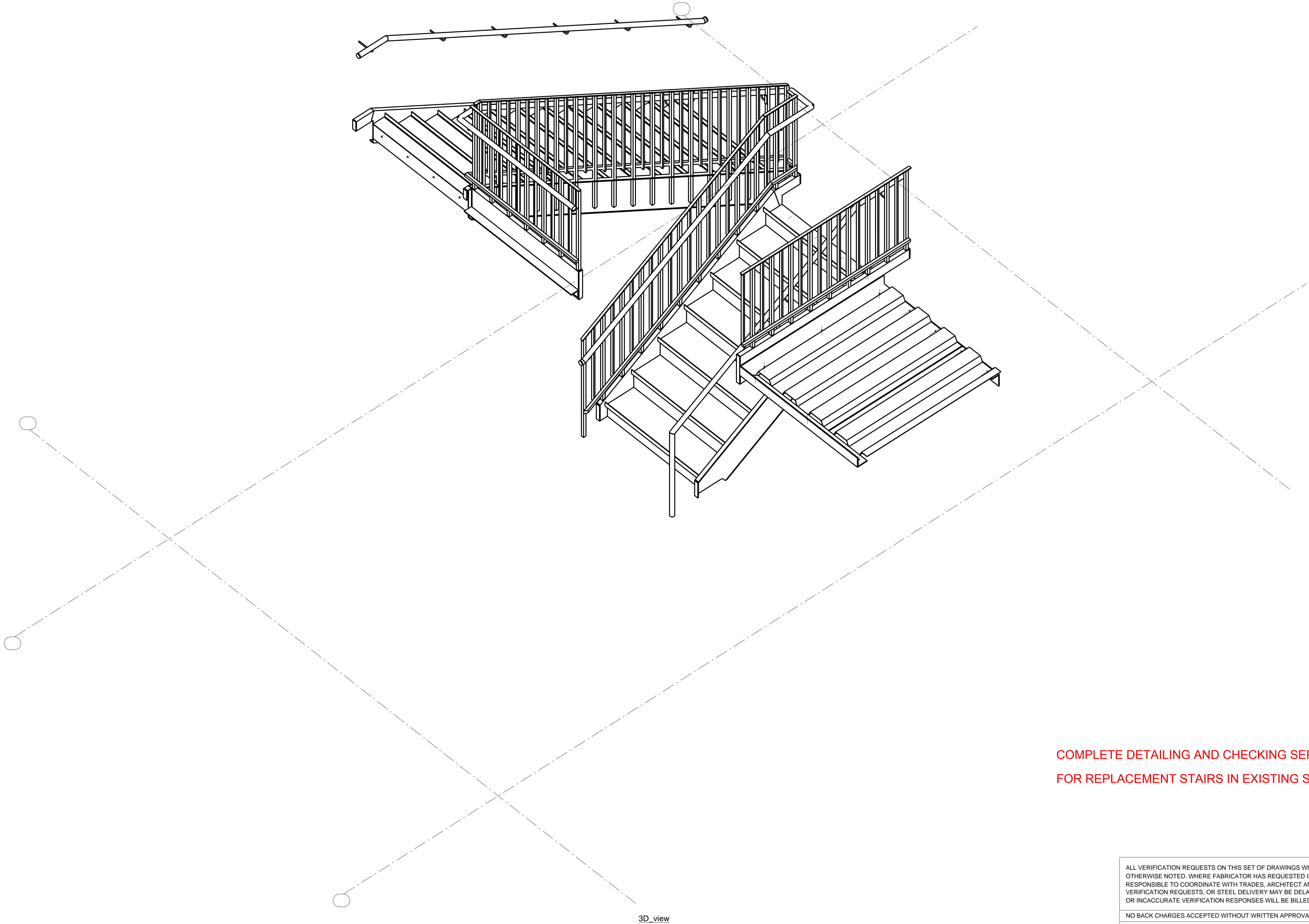
COMPLETE DETAILING AND CHECKING
SMALL RETAIL STORE'



CHECKING SERVICES AND RFI GENERATION FOR DIFFICULT
ADDITION TO AN OLDER SCHOOL.

3d_view

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



3D view

COMPLETE DETAILING AND CHECKING SERVICES
FOR REPLACEMENT STAIRS IN EXISTING SCHOOL

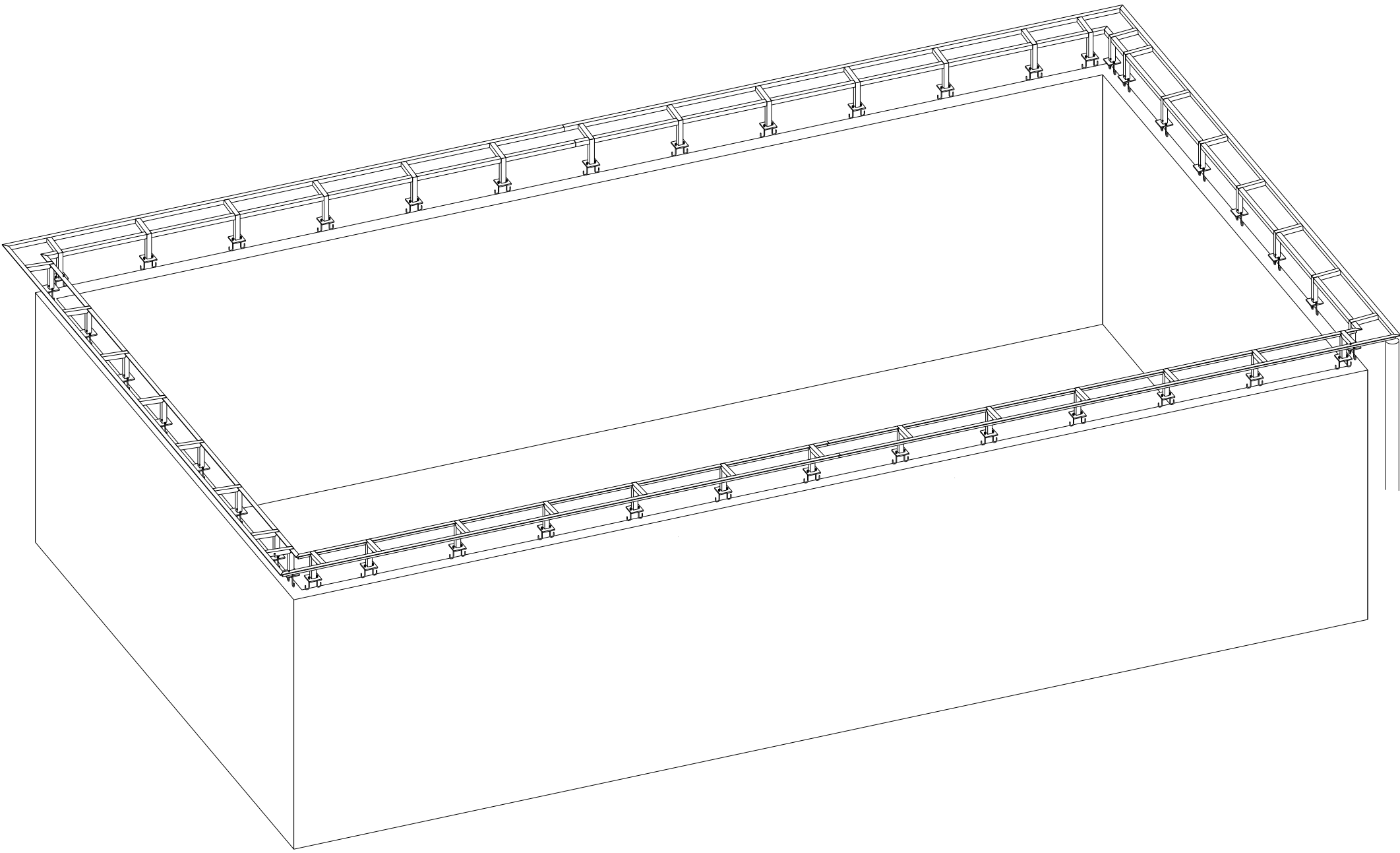
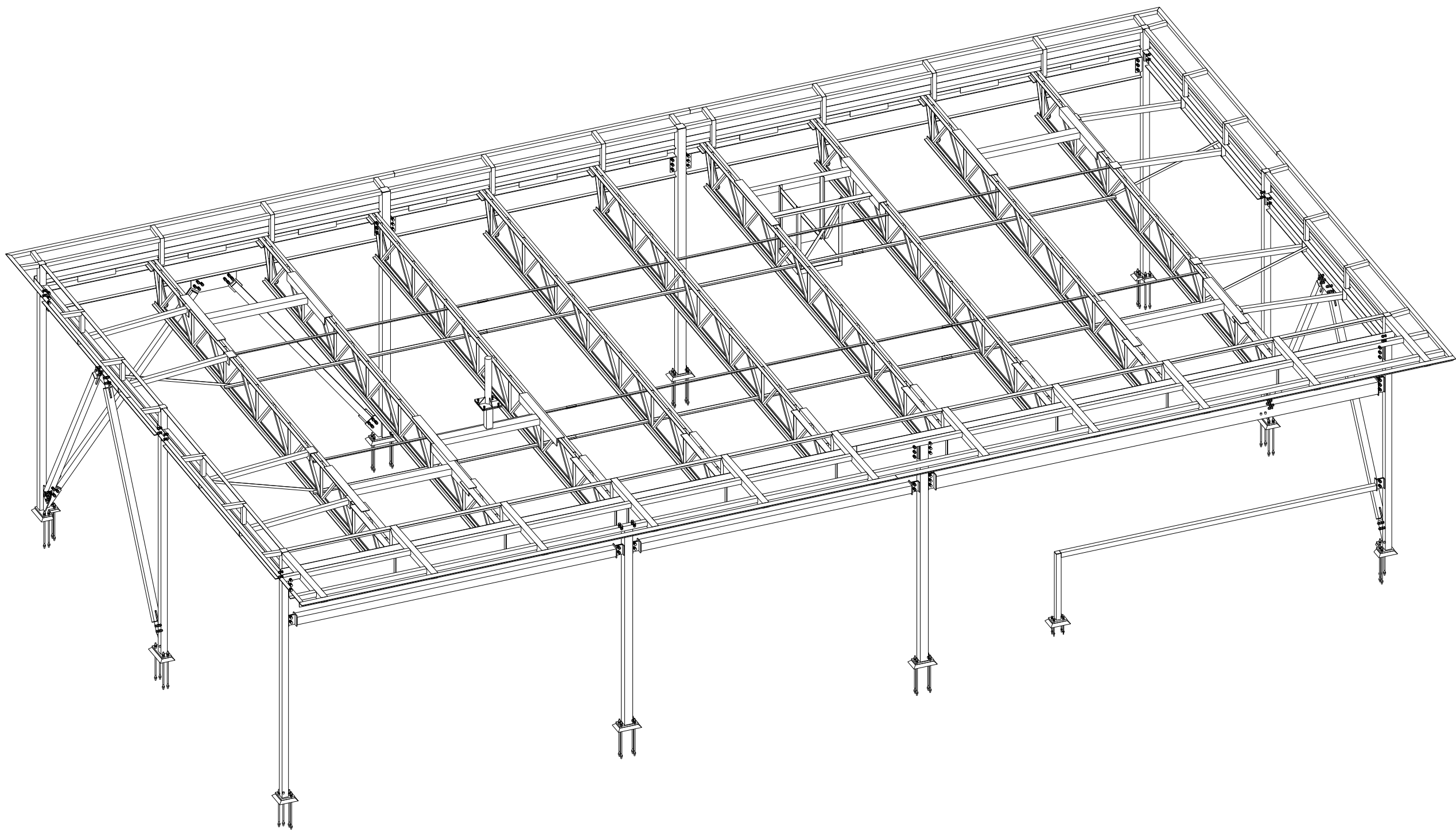
ALL VERIFICATION REQUESTS ON THIS SET OF DRAWINGS WILL BE ASSUMED CORRECT AS SHOWN UNLESS OTHERWISE NOTED. WHERE FABRICATOR HAS REQUESTED INFORMATION TO BE PROVIDED, CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH TRADES, ARCHITECT AND ENGINEER AS REQ'D TO COMPLETE VERIFICATION REQUESTS, OR STEEL DELIVERY MAY BE DELAYED. ANY REFRICATION COST DO TO INCOMPLETE OR INCACCURATE VERIFICATION RESPONSES WILL BE BILLED AS EXTRA TO THE GENERAL CONTRACTOR.

NO BACK CHARGES ACCEPTED WITHOUT WRITTEN APPROVAL FROM
REPRODUCTION OR FABRICATION FROM THIS DRAWING IS NOT PERMITTED WITHOUT WRITTEN PERMISSION FROM

| | | | | | |
|--------------|-------|-------------|----------------------------|---------|-------|
| ISSUED FOR: | DATE: | PROJECT: | LIDGERWOOD SCHOOL ADDITION | DRAWN: | DATE: |
| APPROVAL: | | LOCATION: | LIDGERWOOD ND | JOB No. | |
| RESUBMITTAL: | | ENGINEER: | | SH. No. | |
| PURCHASING: | | CONTRACTOR: | | | |
| FABRICATION: | | | | | |
| JOB USE: | | | | | |

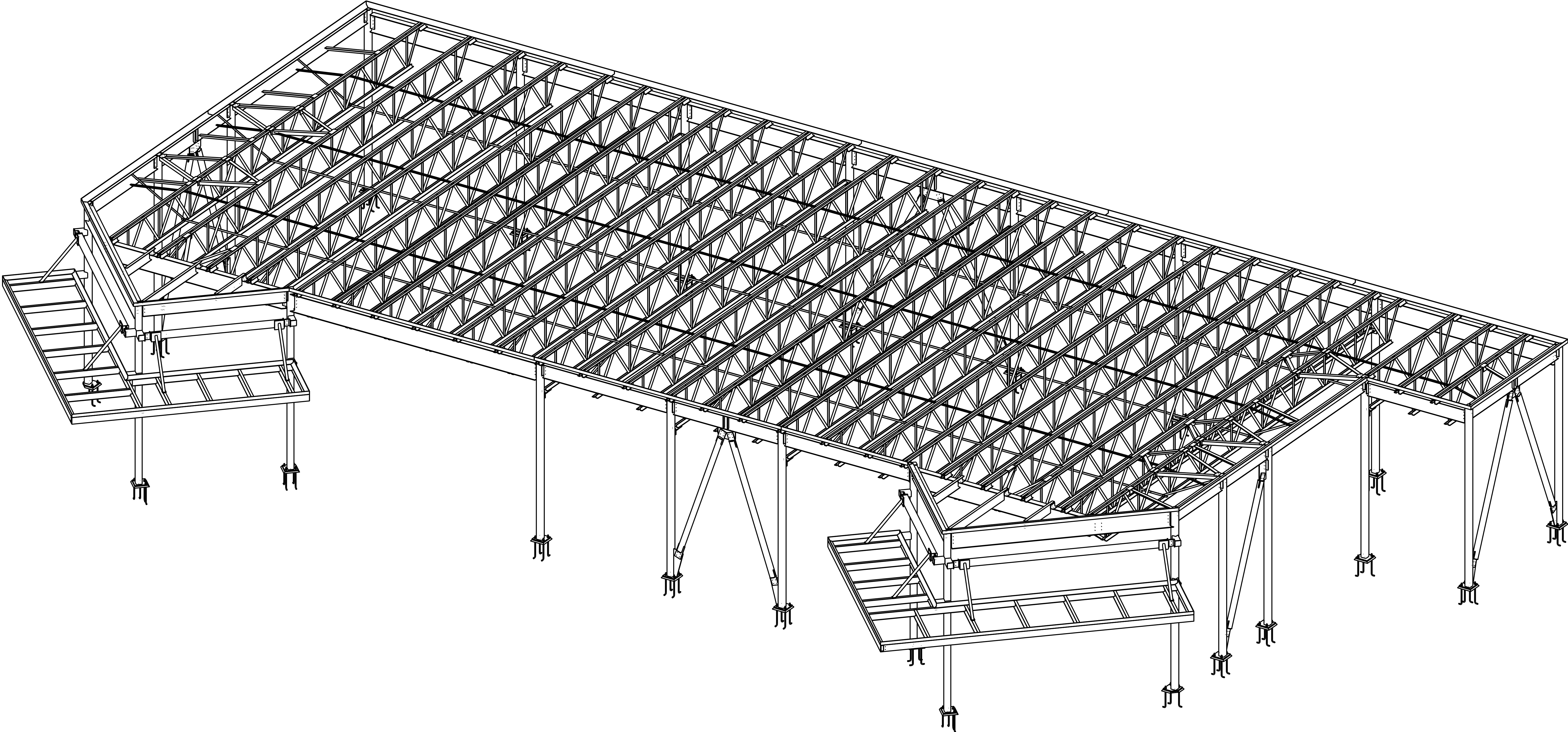
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LDGWD
S1



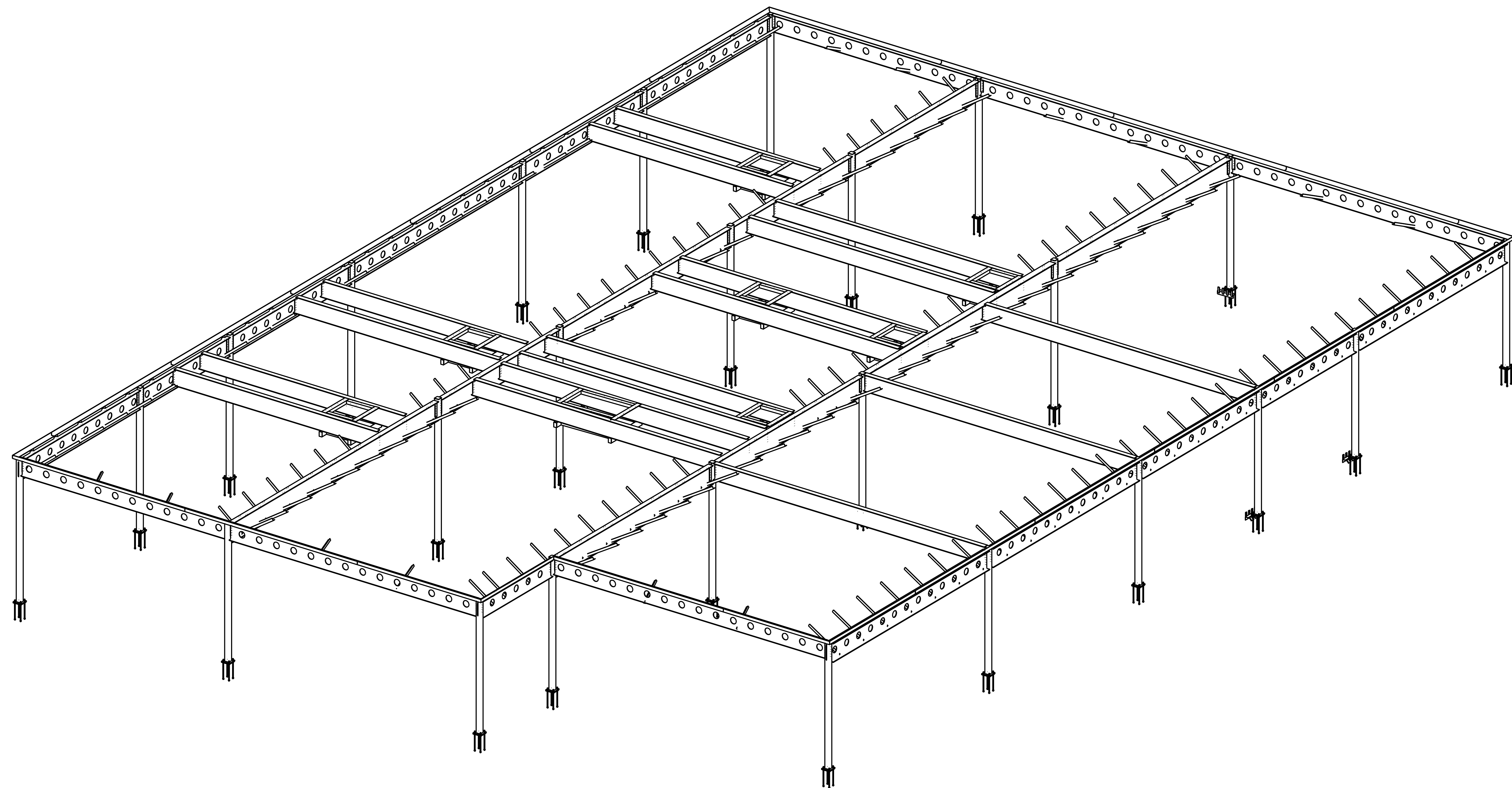
COMPLETE DETAILING AND CHECKING
FOR SMALL GAS BAR AND CAR WASH

STEEL DETAILING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



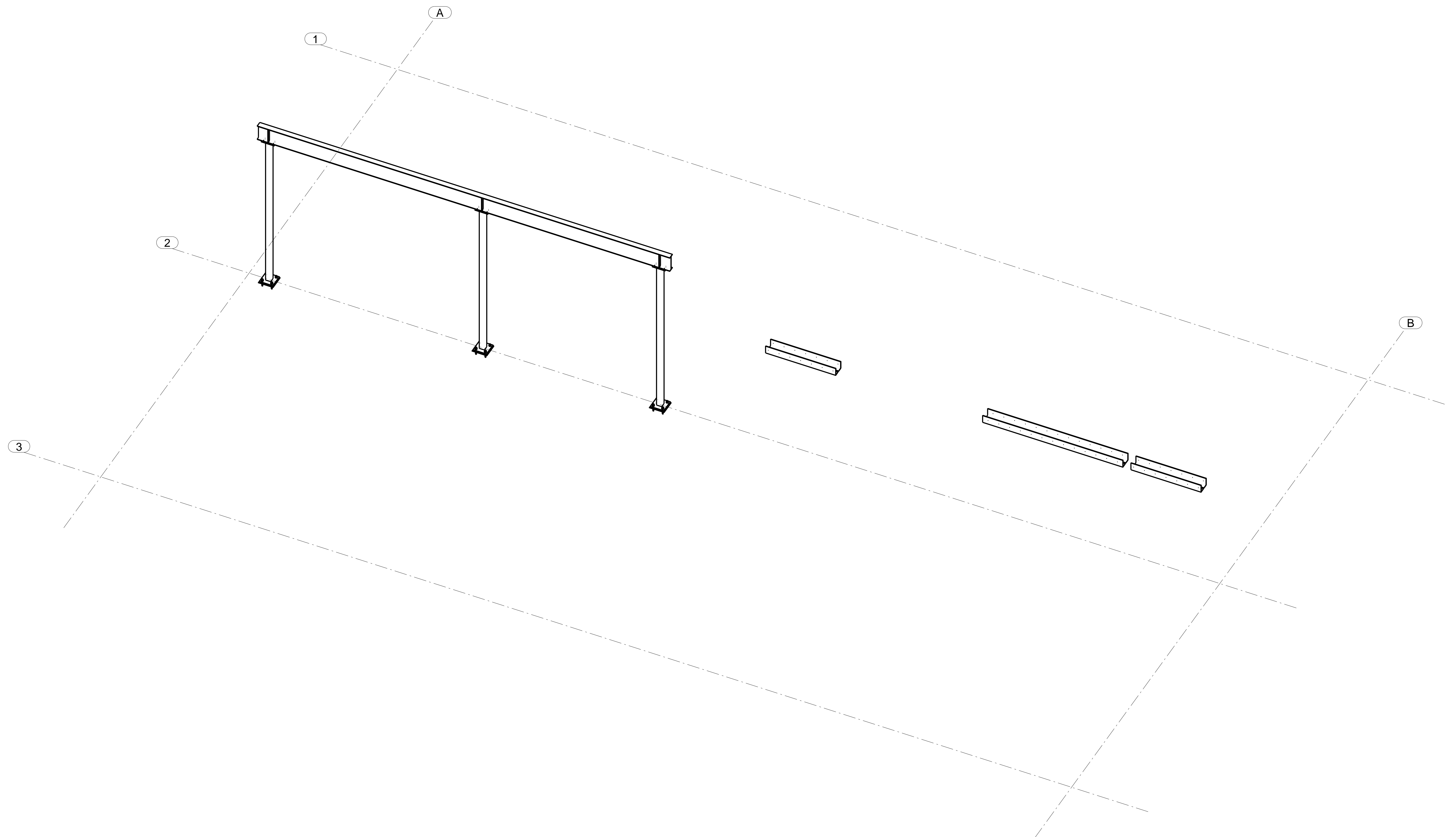
3D VIEW

COMPLETE CHECKING AND DETAILING AND RFI GENERATION
FOR SMALL SHOP AND OFFICE COMBINATION

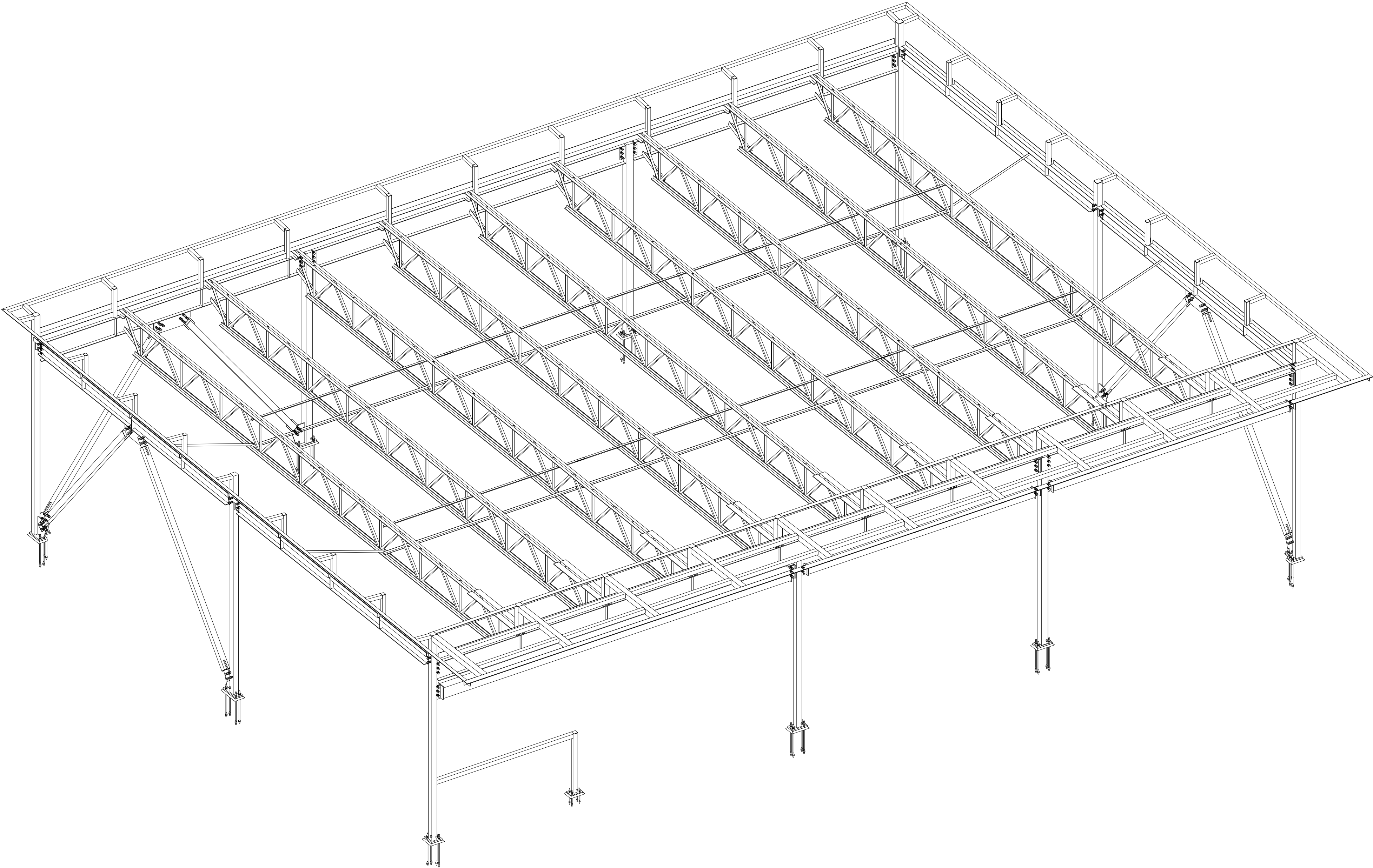


3d_VIEW

DRAWINGS CHECKING AND RFI GENERATION
FOR STRUCTURAL STEEL COMPONENT OF
CONCRETE AND BLOCK BUILDING



STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



1 3d

COMPLETE DETAILING AND CHECKING
FOR SMALL GAS BAR STORE

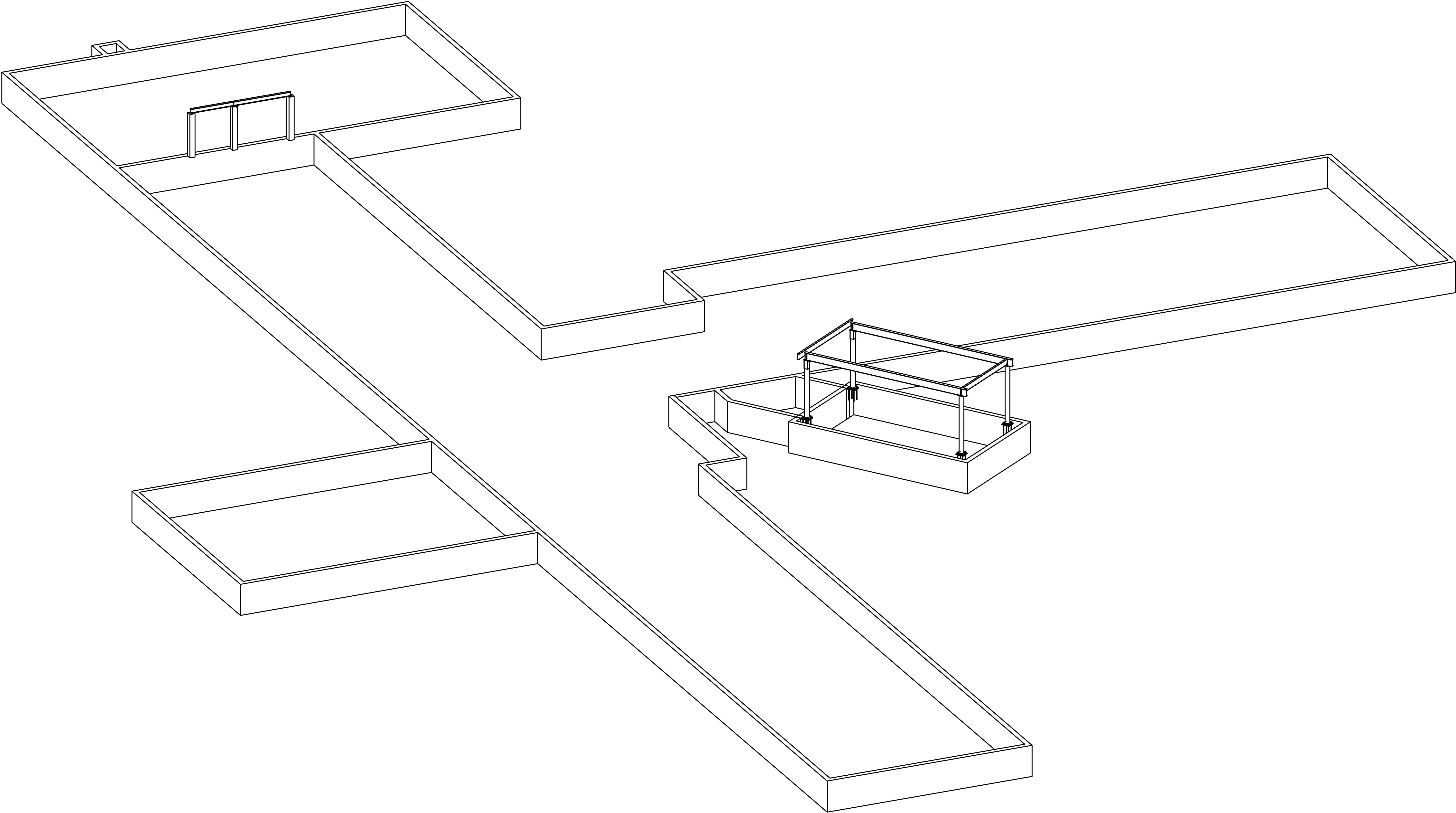
STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



3D

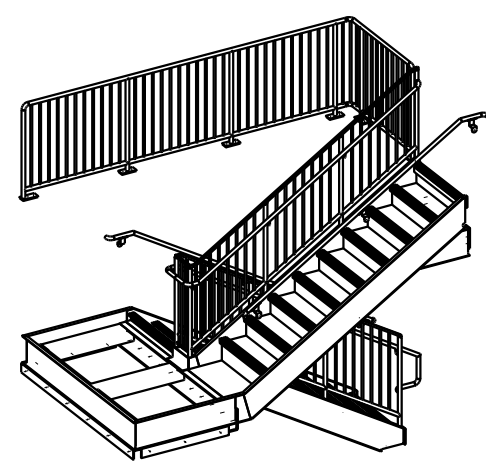
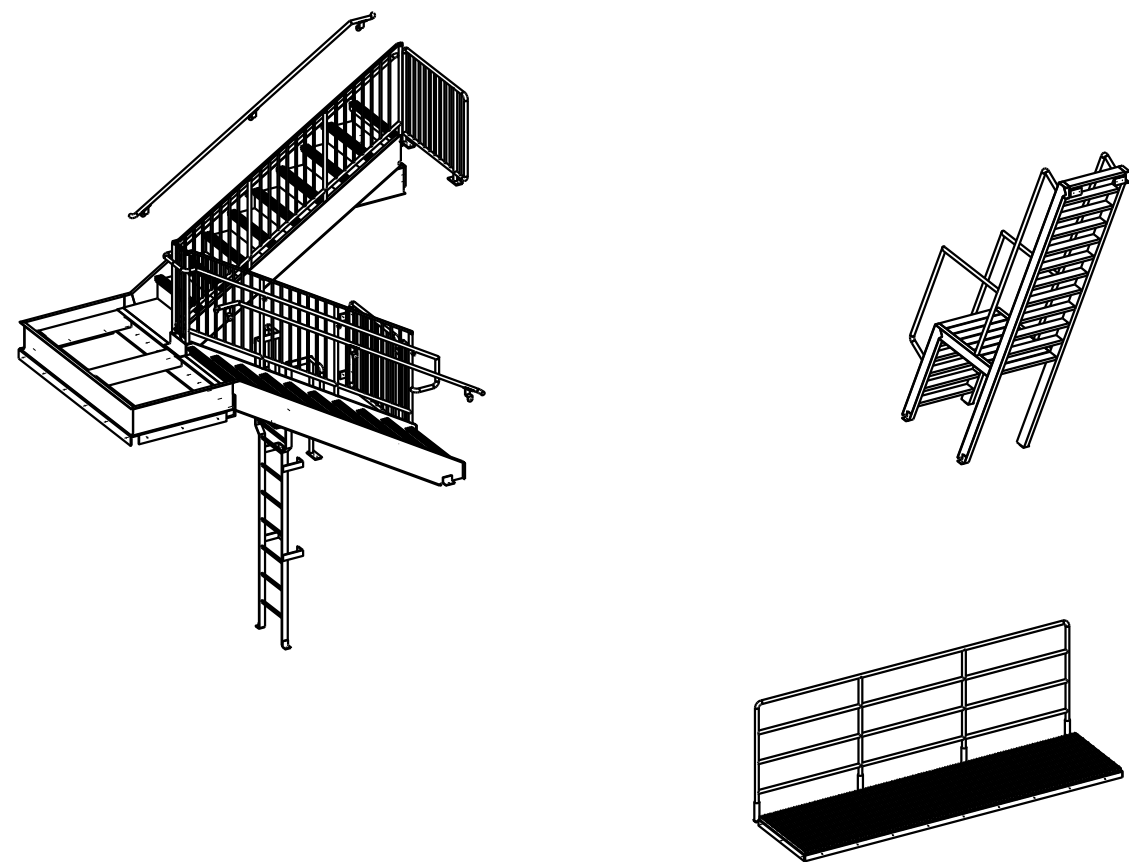
COMPLETE CHECKING AND DETAILING
FOR MISC PROJECT

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT

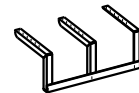
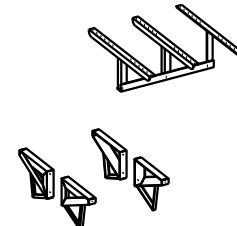
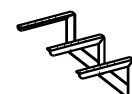
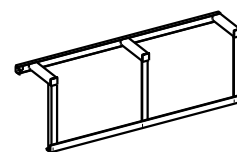
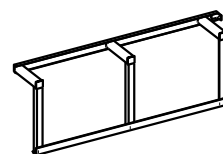


3d_view

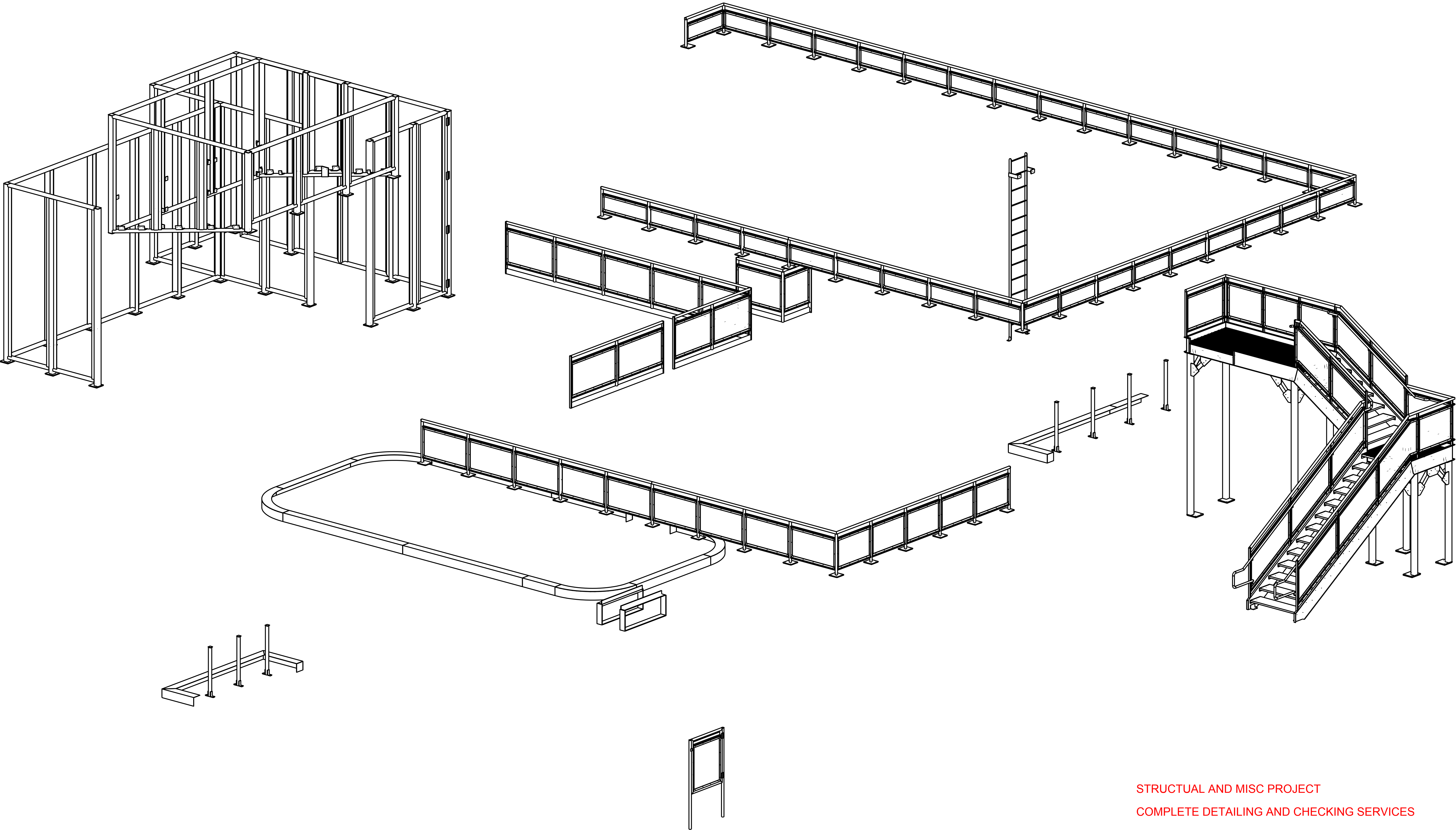
COMPLETE CHECKING AND DETAILING
FOR SMALL REINFORCEMENT PROJECT



3d_view



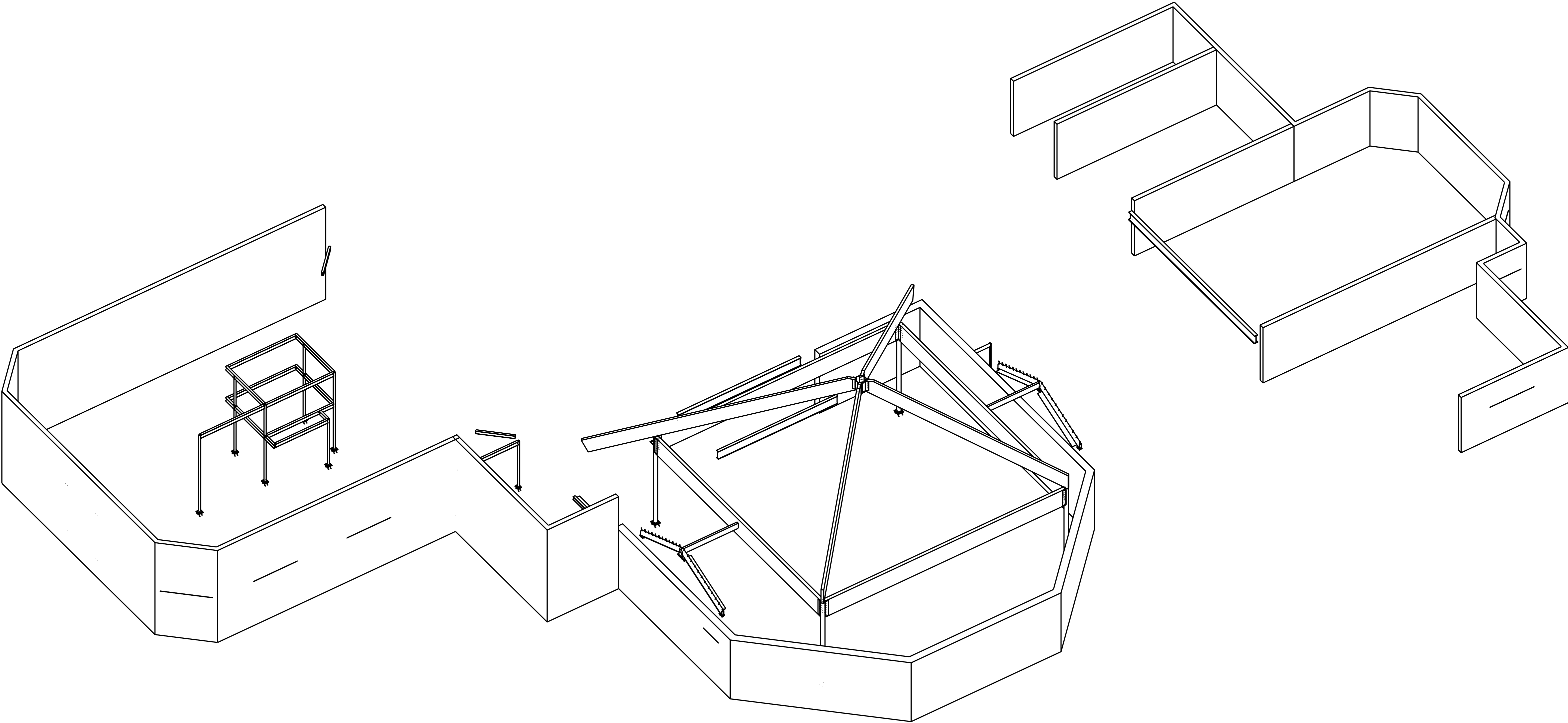
RFI GENERATION AND DETAILING FOR DIFFICULT
MISC PROJECT. THE DESIGN DRAWINGS DID NOT CONTAIN
NEEDED INFORMATION AND THE RFI RESPONSES WERE
INCOMPLETE. THIS WAS VERY DIFFICULT



3D_view

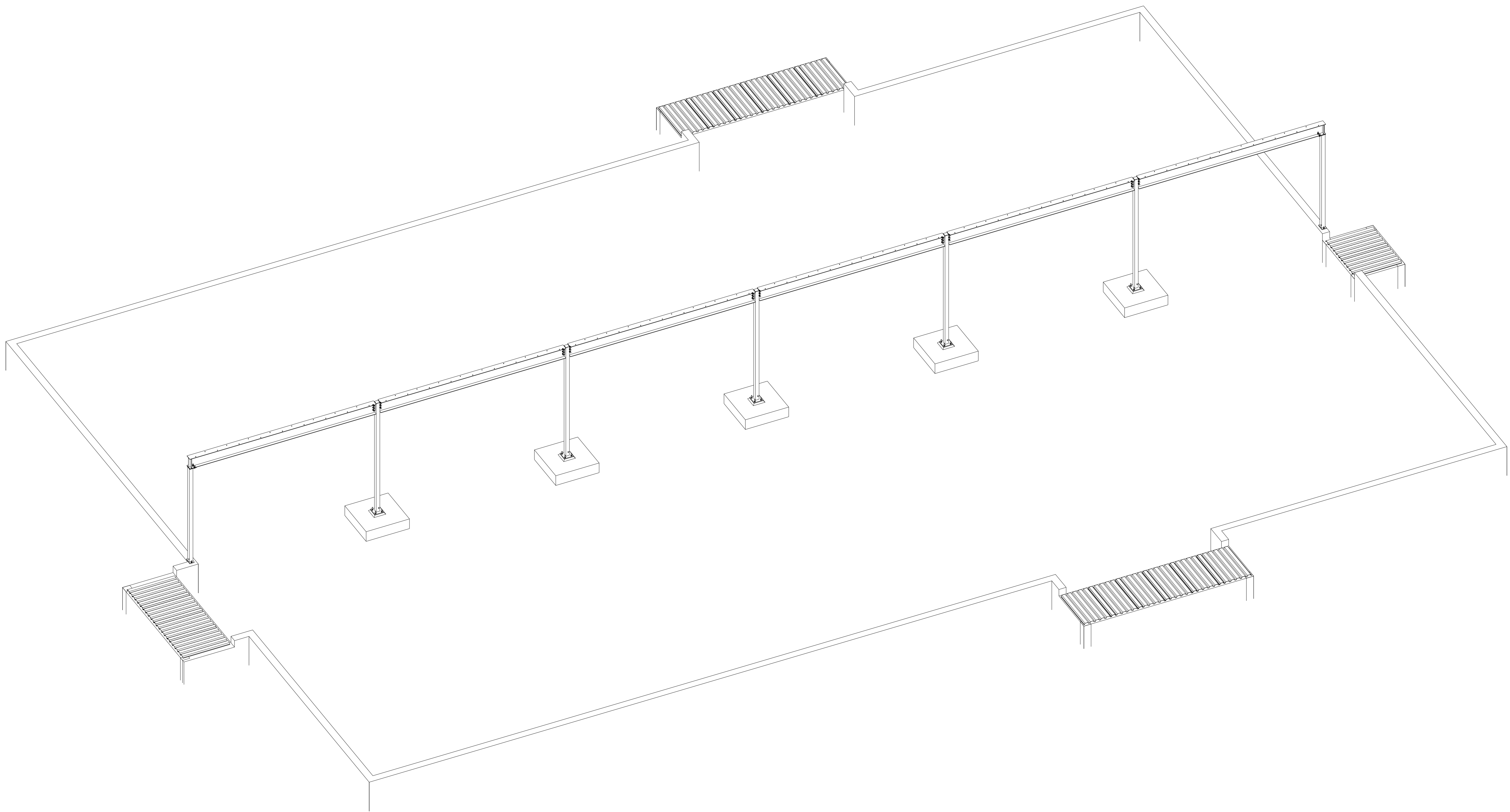
STRUCTUAL AND MISC PROJECT
COMPLETE DETAILING AND CHECKING SERVICES

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



3d

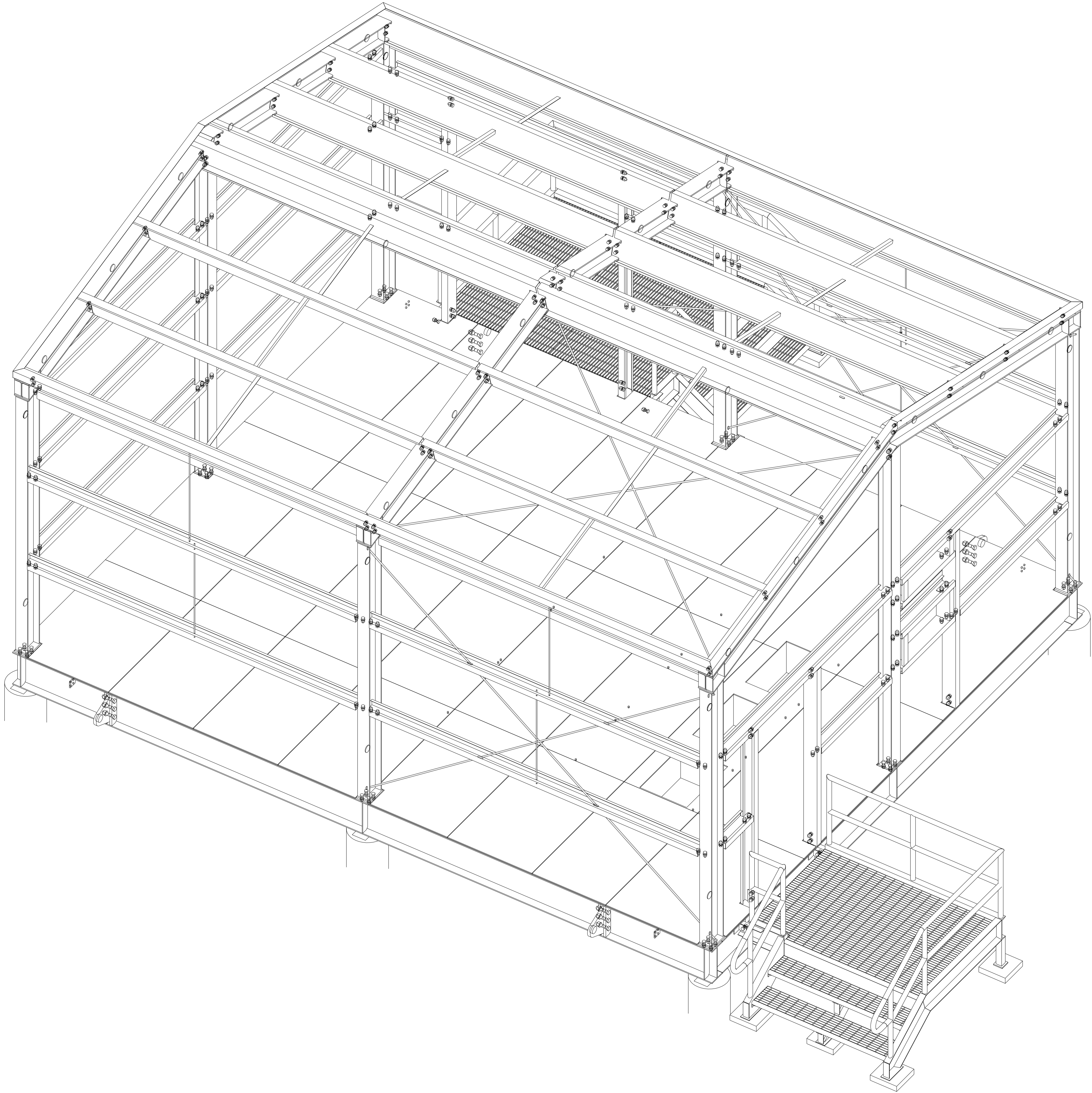
COMPLETE DETAILING AND CHECKING
FOR THE SUPPORT STRUCTURE FOR A NEW CHURCH



1 3D VIEW

SIMPLE REINFORCEMENT STRUCTURE

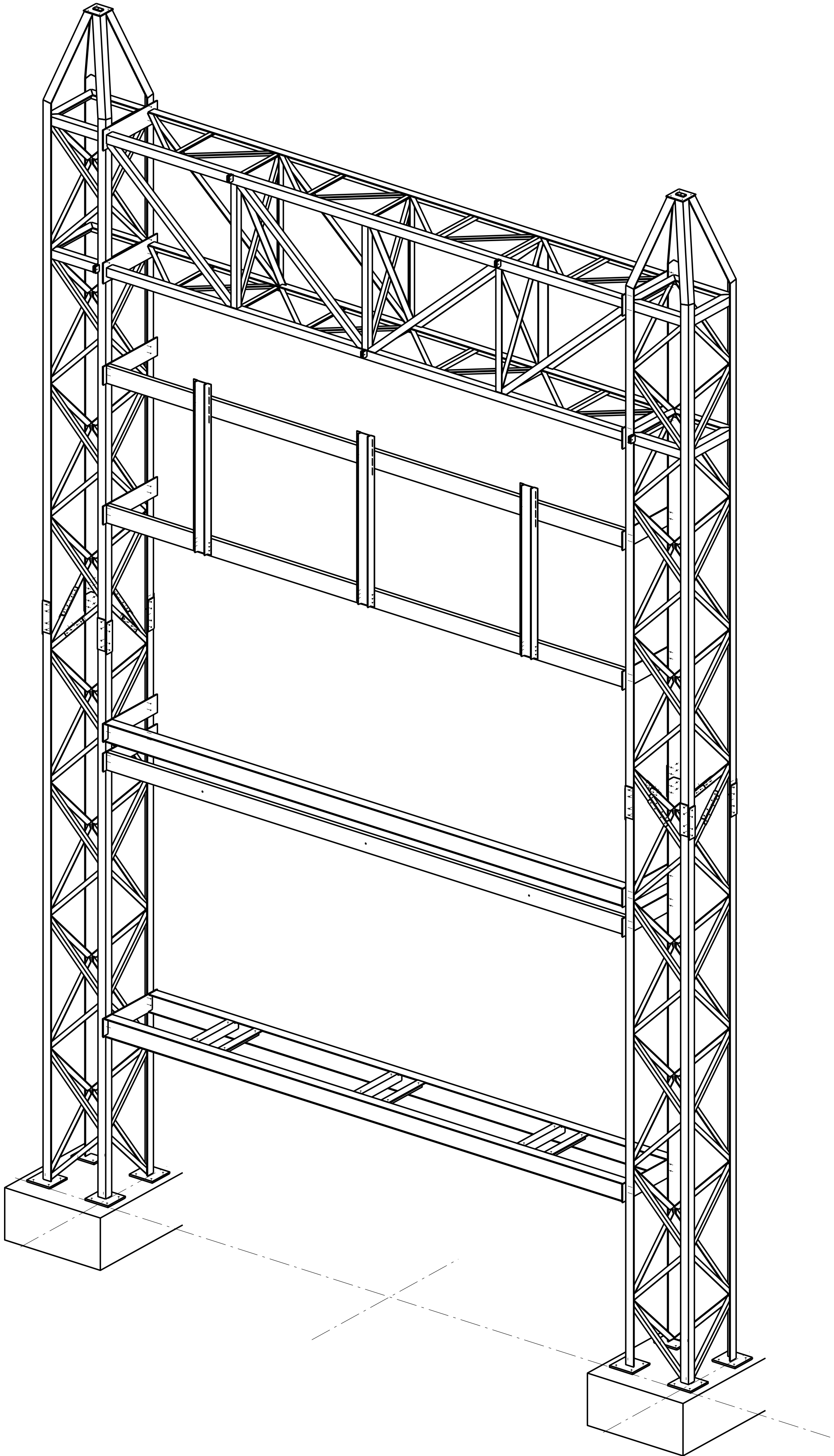
STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



1 3D VIEW

COMPLETE CHECKING AND DETAILING
AND RFI GENERATION FOR SMALL BUILDING
ON STEEL SKID

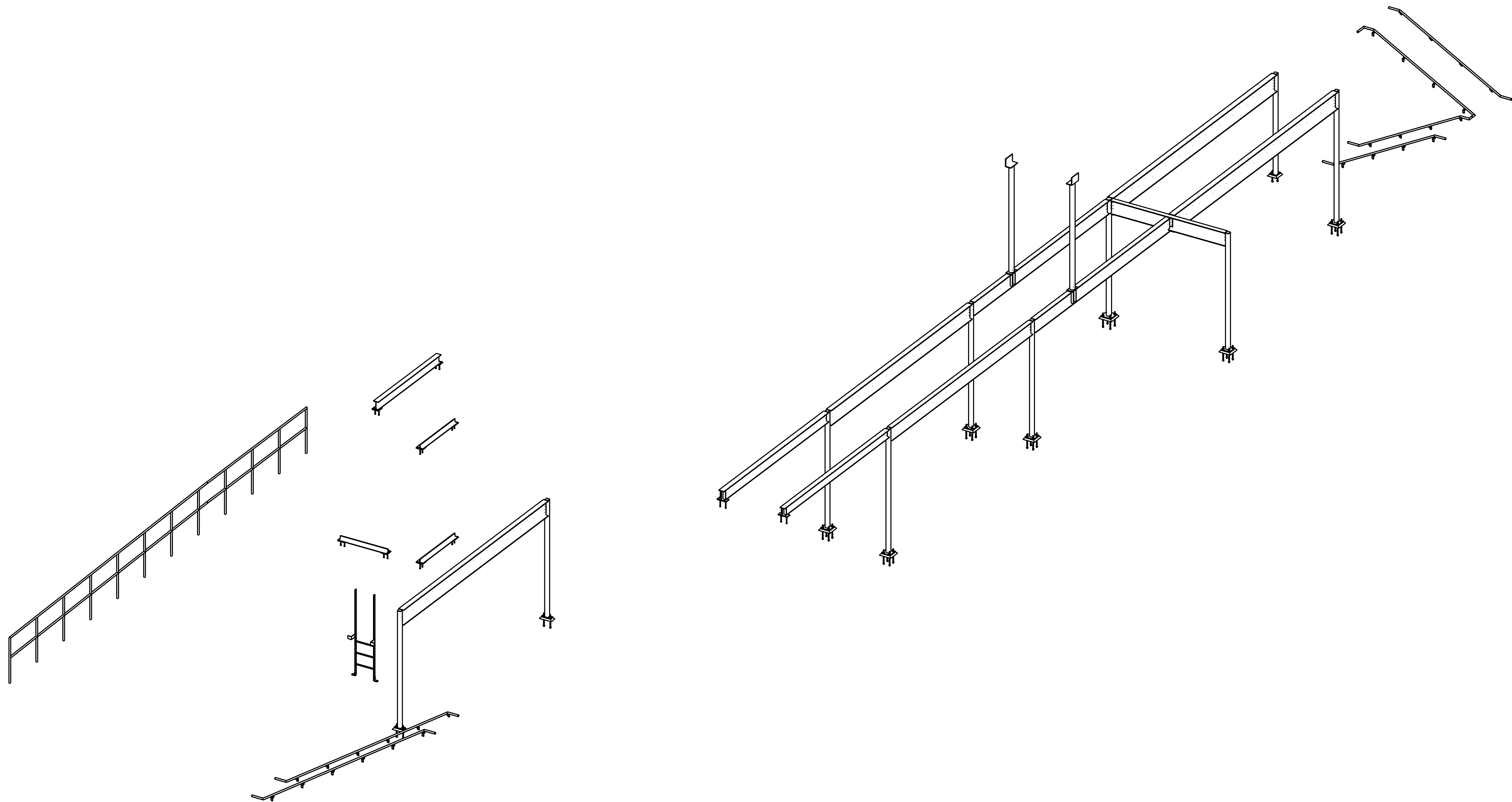
STEEL DETAILING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT



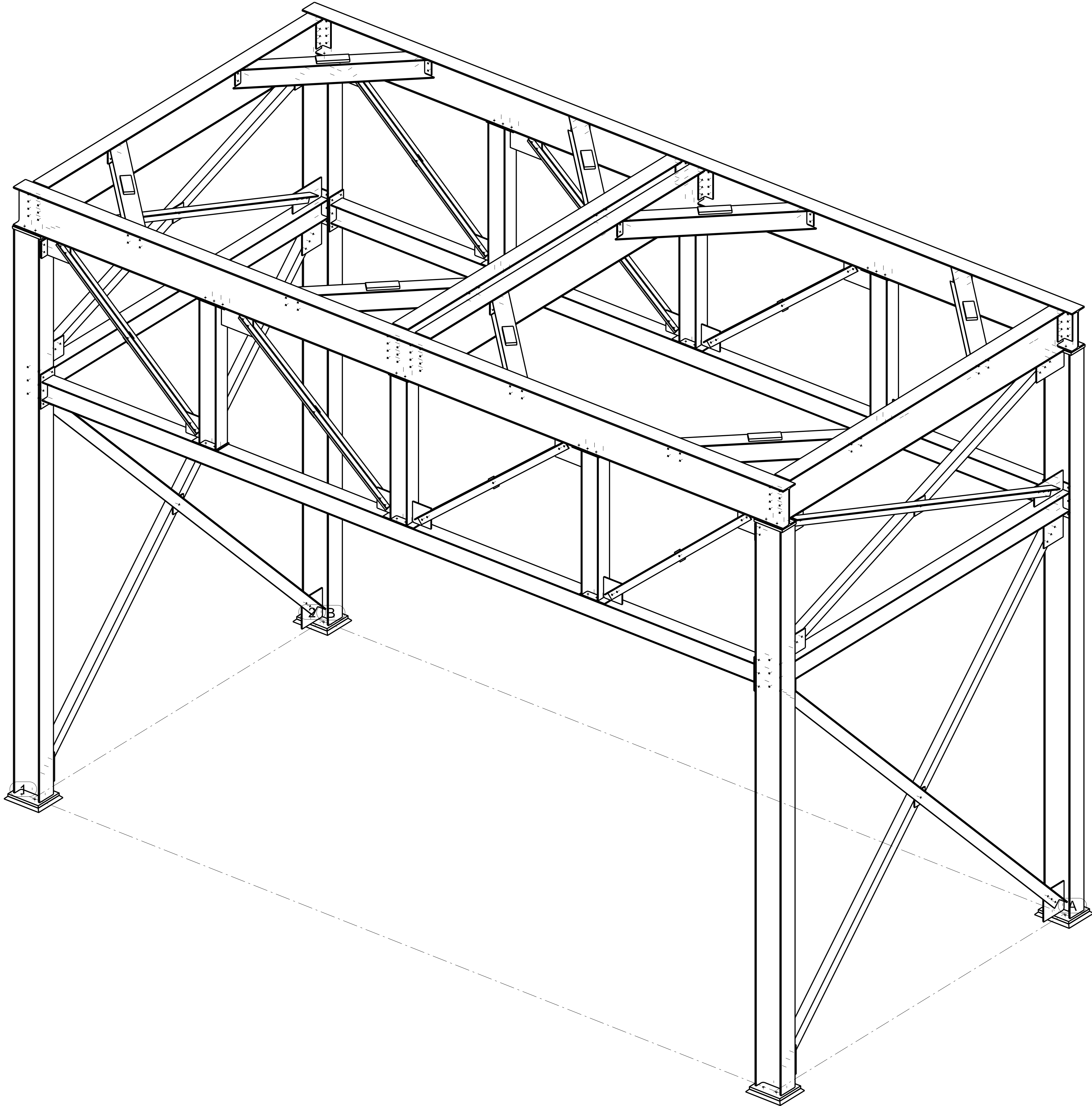
3D view

COMPLETE DETAILING AND CHECKING AND RFI
GENERATION FOR SUPPORT STRUCTURE USED
IN A STEEL PROCESSING PLANT

STEEL DETALING AND CHECKING SERVICES
COMPUTER PROGRAMMING
SOFTWARE APPLICATION DEVELOPMENT

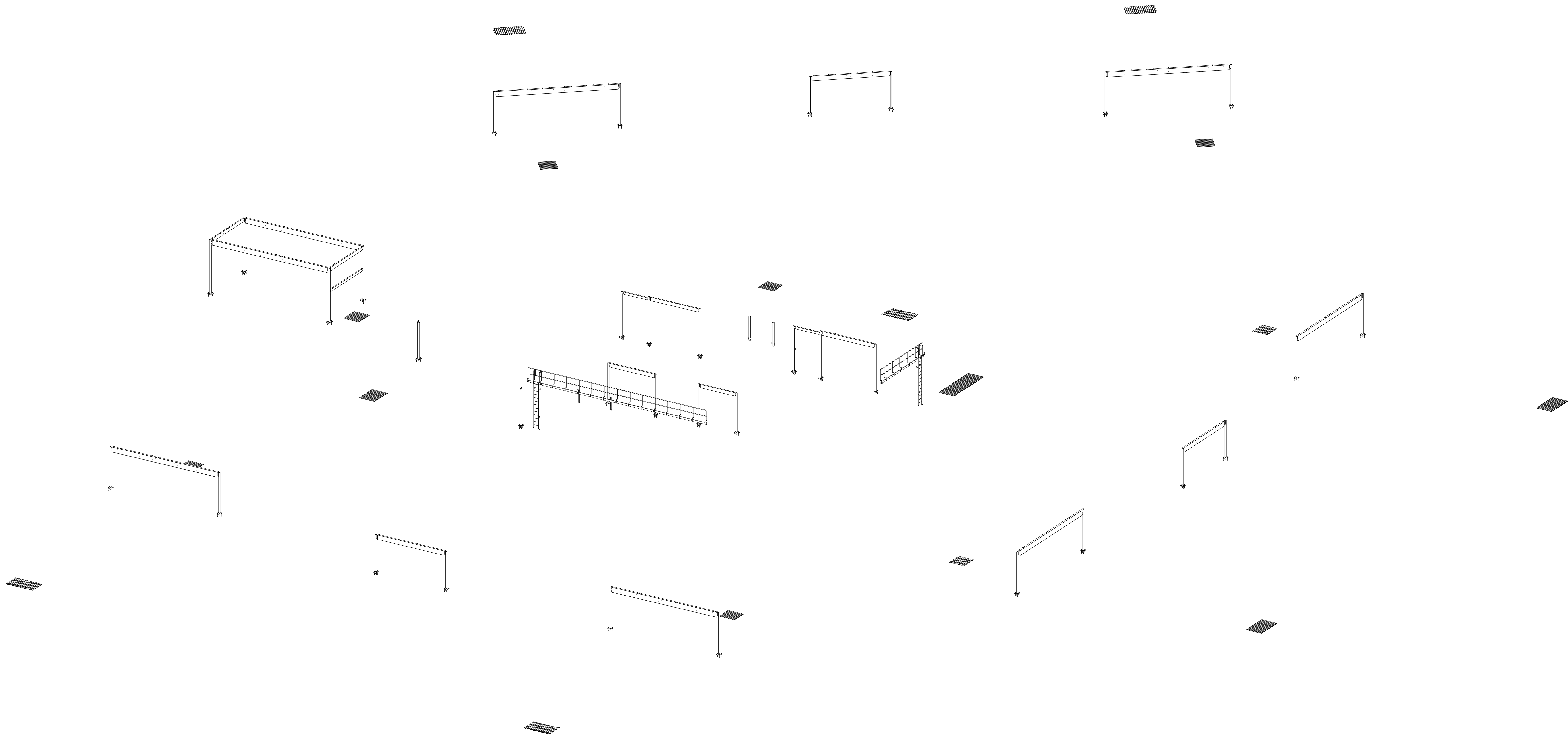


COMPLETE DETAILING AND CHECKING
FOR SMALL STRUCTURAL STEEL AND MISC
PROJECT, EVEN WHEN WE WORK ON SMALL PROJECTS
A COMPARISON MODEL IS GENERATED TO ASSURE
ACCURACY



3D_view

COMPLETE DETAILING AND CHECKING
FOR SMALL PLATFORM,



3D VIEW

COMPLETE RFI GENERATION AND DETAILING AND CHECKING
FOR SUPPORT STRUCTURE AND MISC FOR SENIORS LODGE