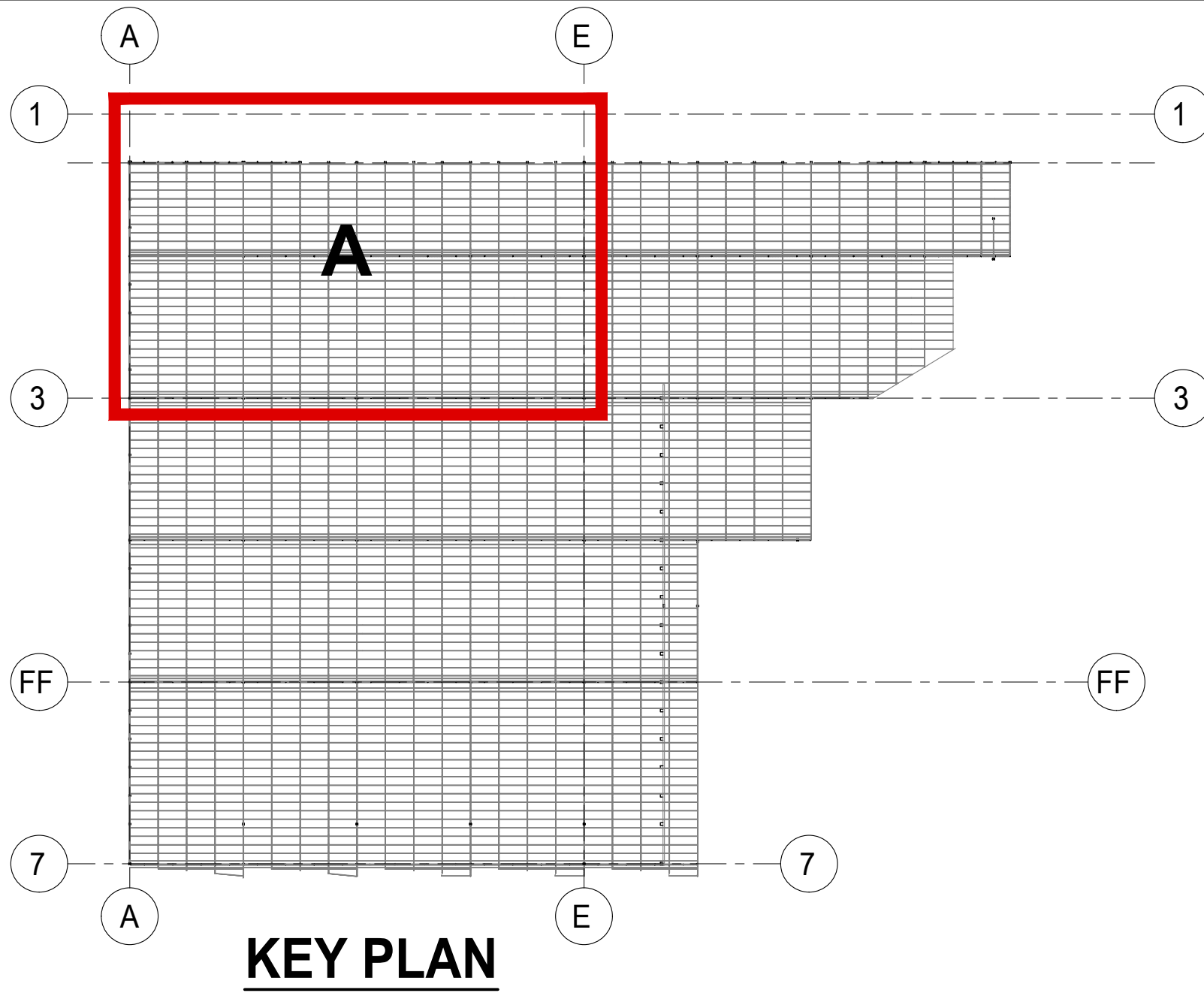


ROOF LAYOUT - BLOCK A
SCALE 1: 100



1. STRUCTURAL STEEL NOTES
- 1.1 ALL STEEL WORK TO BE MANUFACTURED IN ACCORDANCE WITH SANS 1200-1:1980
 - 1.2 U.N.O. ALL STEEL WORK TO BE GRADE 300MA AND COMPLY WITH REQUIREMENTS OF SANS 1431
 - 1.3 THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE ARCHITECT'S DRAWINGS AND CHECKED AGAINST SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER.
 - 1.4 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FINAL VERIFICATION OF ALL STEEL WORK DIMENSIONS BEFORE MANUFACTURING ANY COMPONENT ON OR OFF SITE.
 - 1.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SHOP DETAILS. THE ENGINEER WILL REQUIRE 5 WORKING DAYS FOR APPROVAL OF THE DRAWINGS.
 - 1.6 POSITION OF ALL HD BOLTS TO BE CHECKED BEFORE BRINGING FABRICATED STEEL ON SITE.
 - 1.7 ALL GUSSETS, CLEATS TO BE A MINIMUM OF 8mm PLATE UNLESS SHOWN OTHERWISE.
 - 1.8 GUTTERS ARE TO BE WATER TESTED TO ENSURE ALL JOINTS ARE WATER TIGHT.
 - 1.9 CENTER OF GRAVITY OF TRUSS AND GIRDER MEMBERS AT A JOINT TO INTERSECT AT A SINGLE NODE POINT.
 - 1.10 NO PUNCHING OF HOLES WILL BE PERMITTED.
 - 1.11 ALL BOLTS SHALL BE M20 G4.8 U.N.O.
 - 1.12 FLAME CUTTING OF HOLES WILL NOT BE PERMITTED.
 - 1.13 FLAME CUTTING OF HOLES IN EXISTING STEEL WORK WILL NOT BE PERMITTED WITHOUT CLIENT'S PRIOR PERMISSION.
 - 1.14 WELDING SHALL BE DONE BY OR UNDER THE SUPERVISION OF CODED WELDERS.
 - 1.15 ALL WELDS TO BE 5mm FW CONTINUOUS U.N.O.
2. SURFACE PROTECTION :
- 2.1 WIRE BRUSH TO ST2
 - 2.2 ONE COAT SIGMA SIGAMARINE MULTIPRIMER DFT 35 MICRON
 - 2.3 ONE COAT UNIVERSAL UNDERCOAT TO SABS 881 TYPE 2 DFT 30 MICRON
 - 2.4 ONE COAT GLOSS ENAMEL TO SANS 630 TYPE 1 DFT 30 MICRON
 - 2.5 FINAL COLOR TO BE CONFIRMED BY CLIENT.

AS-BUILT DRAWINGS

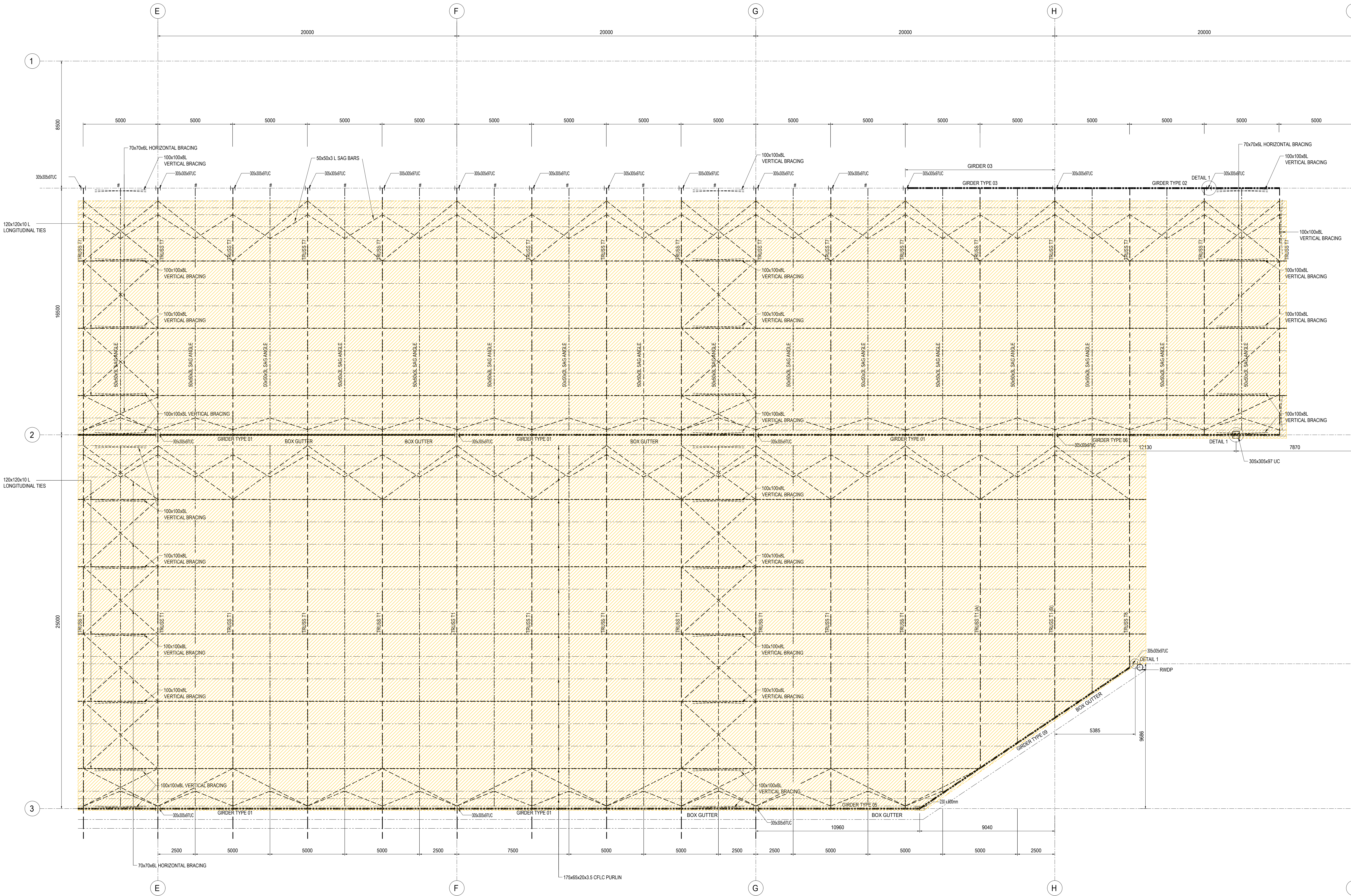
No.	Description / Revisions	Date
1	AS-BUILT DRAWINGS	2022/10/13

NAKO
ILISO
ENGINEERS • PROJECT MANAGERS • ENVIRONMENTAL MANAGERS

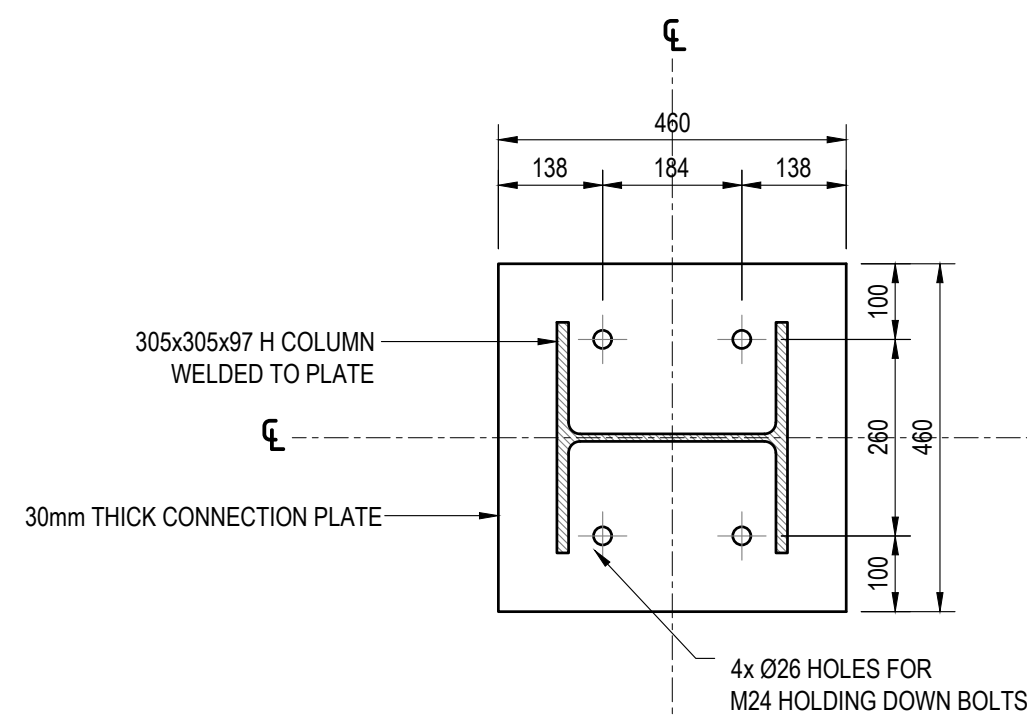
ILISO HOUSE
102 Park Drive, St. Georges Park
P.O. Box 5885, Walmer, 6005
E-mail: iliso@iliso.com

Tel: 041 - 582 3056
Fax: 041 - 582 3057
www.iliso.com

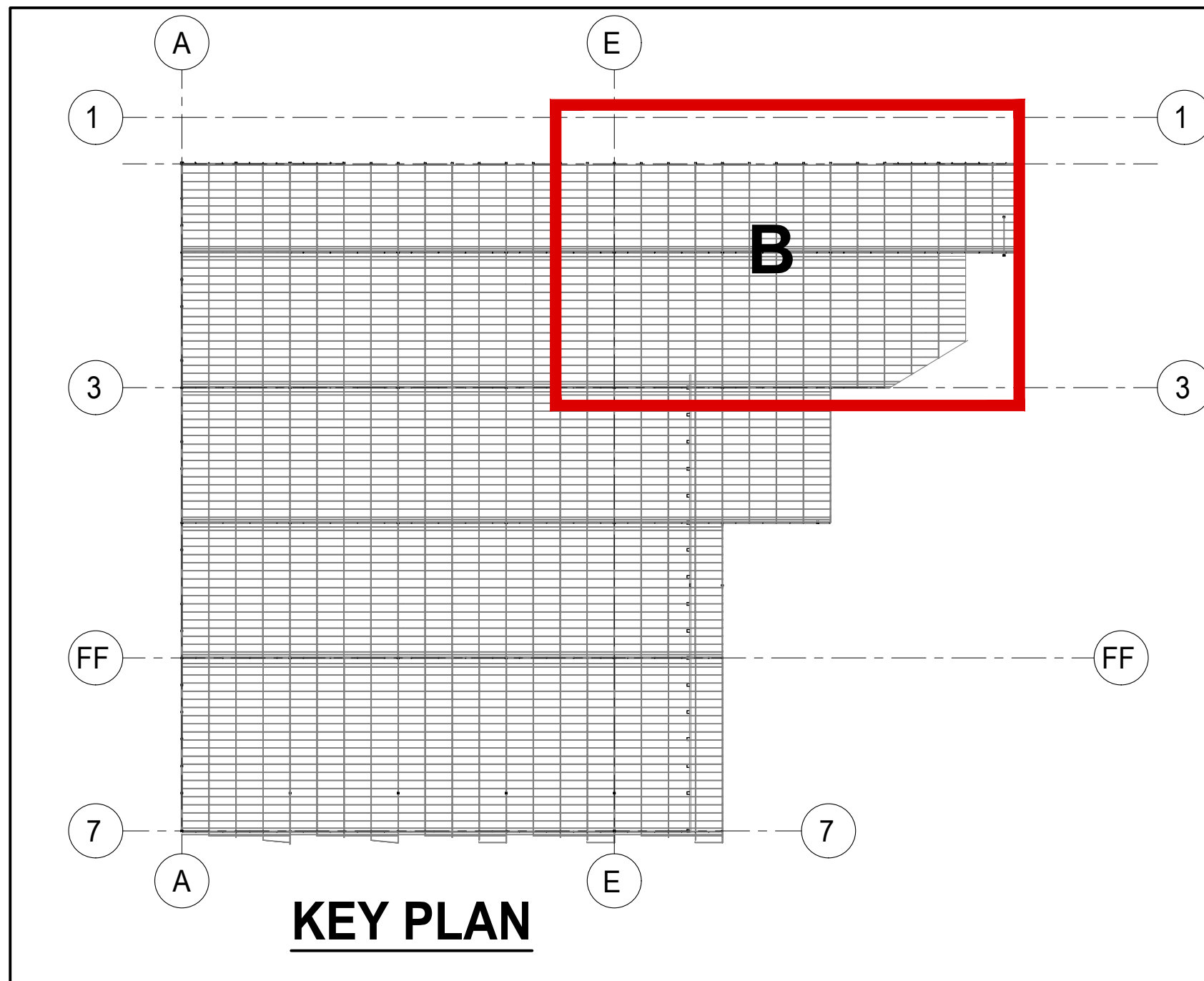
COMPUTER FILE NAME			
DATE	2020/10/13	CLIENT	
SCALE	AS SHOWN	FOR ILISO CONSULTING	
DESIGNED BY	ON & DD	PROJECT ENGINEER	
CHECKED BY	RM	TF & JS	
DRAWN BY	GETEKEN DEUR	RM/DD	
CHECKED BY	MAKESSEN DEUR		
QUALITY CHECKS	CONTENT AND ACCURACY	DESIGN COMPLIANCE	PROJECT COMPLIANCE
PROJECT			
AEROKLASDUYS AUTO HUB			
TITLE			
STEEL ROOF LAYOUT- BLOCK A			
PAPER SIZE	PROJECT NO.	DRWG. NO.	REV.
A0	2020141	S-003	Z



ROOF LAYOUT - BLOCK B
SCALE 1 : 100



DETAIL 1 - PLAN
SCALE 1:10



KEY PLAN

1. STRUCTURAL STEEL NOTES
- 1.1 ALL STEEL WORK TO BE MANUFACTURED IN ACCORDANCE WITH SANS 1200H-1980
 - 1.2 U.N.O. ALL STEEL WORK TO BE GRADE 300MA AND COMPLY WITH REQUIREMENTS OF SANS 1431
 - 1.3 THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE ARCHITECT'S DRAWINGS AND CHECKED AGAINST SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER.
 - 1.4 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FINAL VERIFICATION OF ALL STEEL WORK DIMENSIONS BEFORE MANUFACTURING ANY COMPONENT ON OR OFF SITE.
 - 1.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SHOP DETAILS. THE ENGINEER WILL REQUIRE 5 WORKING DAYS FOR APPROVAL OF THE DRAWINGS.
 - 1.6 POSITION OF ALL HD BOLTS TO BE CHECKED BEFORE BRINGING FABRICATED STEEL ON SITE.
 - 1.7 ALL GUSSETS, CLISTS TO BE MINIMUM OF 8mm PLATE UNLESS SHOWN OTHERWISE.
 - 1.8 GUTTERS ARE TO BE WATER TESTED TO ENSURE ALL JOINTS ARE WATER TIGHT.
 - 1.9 CENTER OF GRAVITY OF TRUSS AND GIRDER MEMBERS AT A JOINT TO INTERSECT AT A SINGLE JOINT POINT.
 - 1.10 NO PUNCHING OF HOLES WILL BE PERMITTED.
 - 1.11 ALL BOLTS SHALL BE M20 G4.8 U.N.O.
 - 1.12 FLAME CUTTING OF HOLES WILL NOT BE PERMITTED.
 - 1.13 FLAME CUTTING OF HOLES IN EXISTING STEEL WORK WILL NOT BE PERMITTED WITHOUT CLIENT'S PRIOR PERMISSION.
 - 1.14 WELDING SHALL BE DONE BY OR UNDER THE SUPERVISION OF CODED WELDERS.
 - 1.15 ALL WELDS TO BE 5mm FW CONTINUOUS U.N.O.
2. SURFACE PROTECTION :
- 2.1 WIRE BRUSH TO ST2
 - 2.2 ONE COAT SIGMA SIGAMARINE MULTIPRIMER DFT 35 MICRON
 - 2.3 ONE COAT UNIVERSAL UNDERCOAT TO SABS 881 TYPE 2 DFT 30 MICRON
 - 2.4 ONE COAT GLOSS ENAMEL TO SANS 630 TYPE 1 DFT 30 MICRON
 - 2.5 FINAL COLOR TO BE CONFIRMED BY CLIENT.

= 152x152x23 H
EAVES BEAM

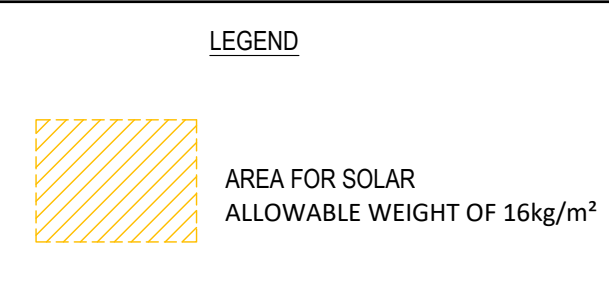
LEGEND
AREA FOR SOLAR
ALLOWABLE WEIGHT OF 16kg/m²

AS-BUILT DRAWINGS

No.	Description / Remarks	Date
1	AS-BUILT DRAWINGS	2022/03/08

NAKO ILISO
ENGINEERS * PROJECT MANAGERS * ENVIRONMENTAL MANAGERS
ILISO HOUSE
102 Park Drive, St. George's Park
P.O. Box 5885, Walmer, 6005
E-mail : iliso@iliso.com
Tel: 041 - 582 3056
Fax: 041 - 582 3057
www.iliso.com

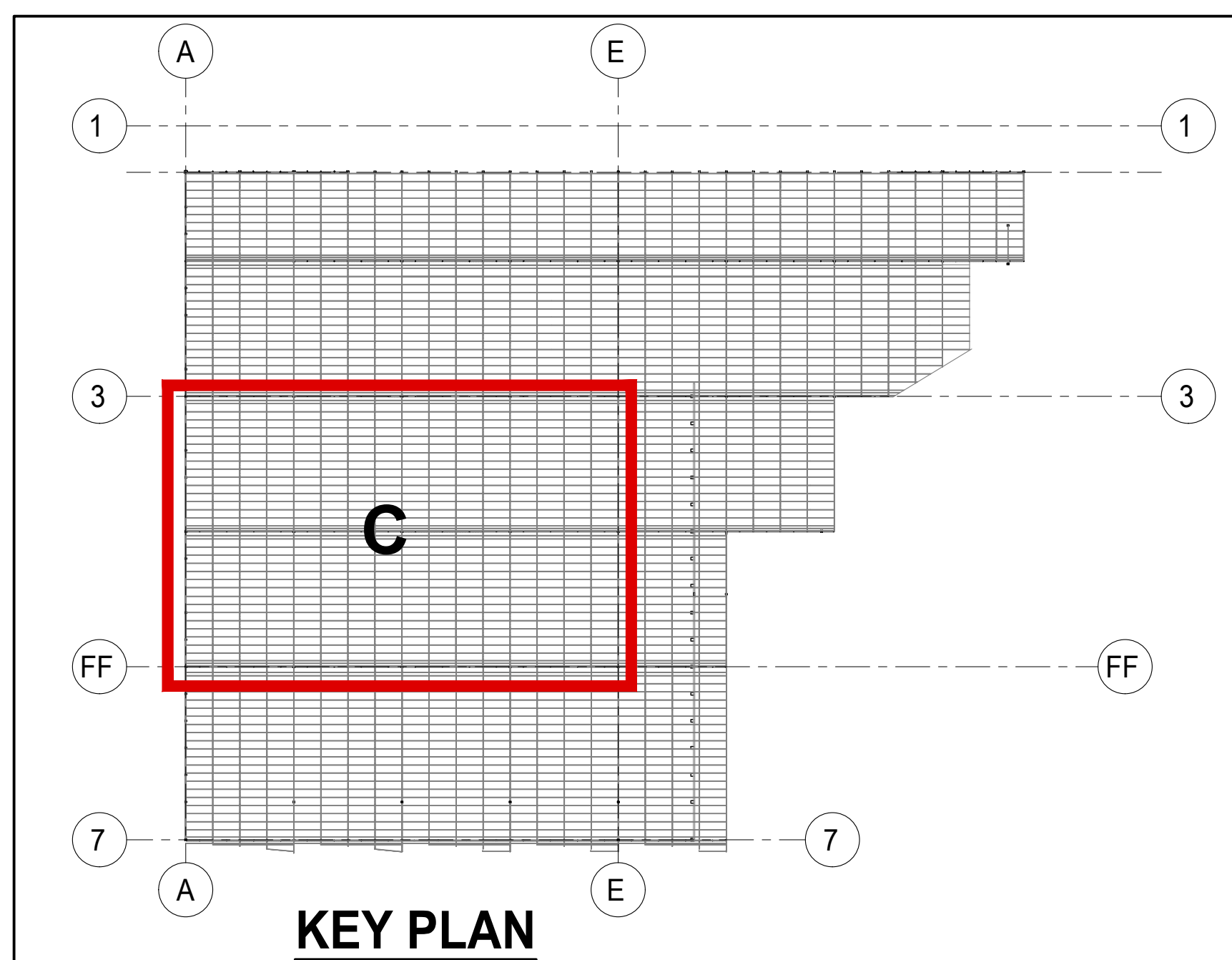
COMPUTER FILE NAME	DATE	SCALE	SKAL	DESIGNED BY	CHECKED BY	DRAWN BY	CHECKED BY	QUALITY CHECKS	PROJECT	TITLE	PAPER SIZE	PROJECT NO.	DRWG. NO.	REV.
	2020/10/13	AS SHOWN		ON & DD	FOR ILISO CONSULTING	MM	TF & JS	MM	AEROKLASDUYS AUTO HUB	STEEL ROOF LAYOUT- BLOCK B	A0	2020141	S-004	Z



1. ALL STEEL WORK TO BE MANUFACTURED IN ACCORDANCE WITH SANS 10000-1990
2. U.N.O. ALL STEEL WORK TO BE GRADE S355W AND COMPLY WITH REQUIREMENTS OF SANS 10162
3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE ARCHITECT'S DRAWINGS AND CHECKED AGAINST THE SAME
4. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER
5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FINAL VERIFICATION OF ALL STEEL WORK DIMENSIONS BEFORE MANUFACTURING ANY COMPONENT ON OR OFF SITE
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF SHORT DETAILS. THE ENGINEER WILL REQUIRE 5 WORKING DAYS FOR APPROVAL OF THE DRAWINGS.
7. ALL JOINTS SHALL BE CHECKED BEFORE BRINKING FABRICATED STEEL ON SITE.
8. ALL GUSSETS, CLATS TO BE A MINIMUM OF 10MM THICKNESS UNLESS OTHERWISE SPECIFIED
9. ALL GUTTERS ARE TO BE WATER TESTED TO ENSURE ALL JOINTS ARE WATER TIGHT.
10. CENTER OF GRAVITY OF TRUSS AND SINGLE MEMBERS AT A JOINT TO INTERSECT AT A SINGLE NODE POINT.
11. NO PUNCHING OF HOLES WILL BE PERMITTED
12. ALL BOLTS SHALL BE M20 G4.8 U N O
13. FLAME CUTTING OF HOLES WILL NOT BE USED
14. FLAME CUTTING OF HOLES IN EXISTING STEEL WORK WILL NOT BE PERMITTED
15. WELDING SHALL BE IN ACCORDANCE WITH SANS 10162
16. WELDING SHALL BE DONE BY, OR UNDER THE SUPERVISION OF CODED WELDERS ALL JOINTS TO BE 6mm FW CONTINUOUS U.N.O.
17. SURFACE PROTECTION:
 - 2.1 WIRE BRUSH TO ST2
 - 2.2 ONE COAT SIGMA SIGMARINE MULTIPRIMER OF 65 MICRONS
 - 2.3 ONE COAT UNIVERSAL UNDERCOAT TO SABS 681 TYPE 2 DFT 300 MICRON
 - 2.4 ONE COAT GLOSS ENAMEL TO SANS 635 TYPE 1
 - 2.5 FINAL COLOR TO BE CONFIRMED BY CLIENT.

2. SURFACE PROTECTION :
2.1 WIRE BRUSH TO ST2
2.2 ONE COAT SIGMA SIGMARINE MULTIPRIMER
DFT 35 MICRON
2.3 ONE COAT UNIVERSAL UNDERCOAT TO
SABS 681 TYPE 2 DFT 30 MICRON
2.4 ONE COAT GLOSS ENAMEL TO SANS 630
TYPE 1 DFT 30 MICRON
2.5 FINAL COLOR TO BE CONFIRMED BY CLIENT.

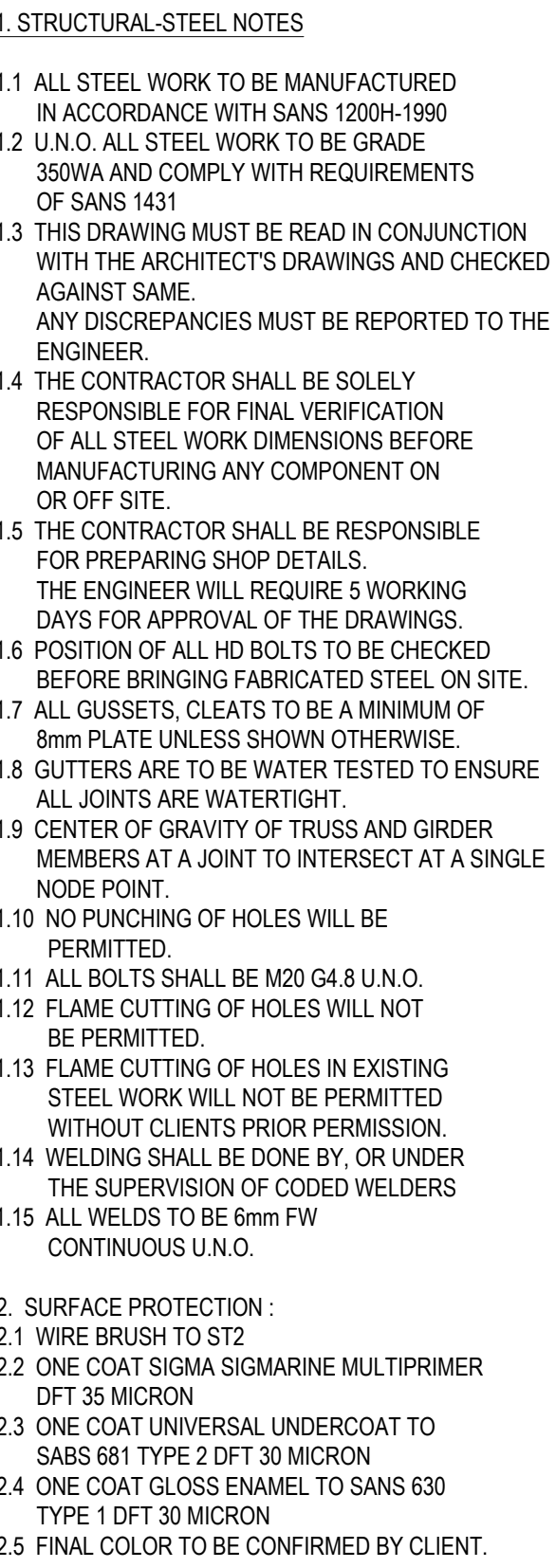
SCALE 1 : 100



Z	AS-BUILT DRAWING	2022/02/08
No.	Description / Revisions	Date

ILISO HOUSE
102 Park Drive, St Georges Park
P.O. Box 5888, Walmer, 6065
E-mail : ilisopec@iliso.com
Tel: 041 - 582 3056
Fax: 041 - 582 3057
www.iliso.com

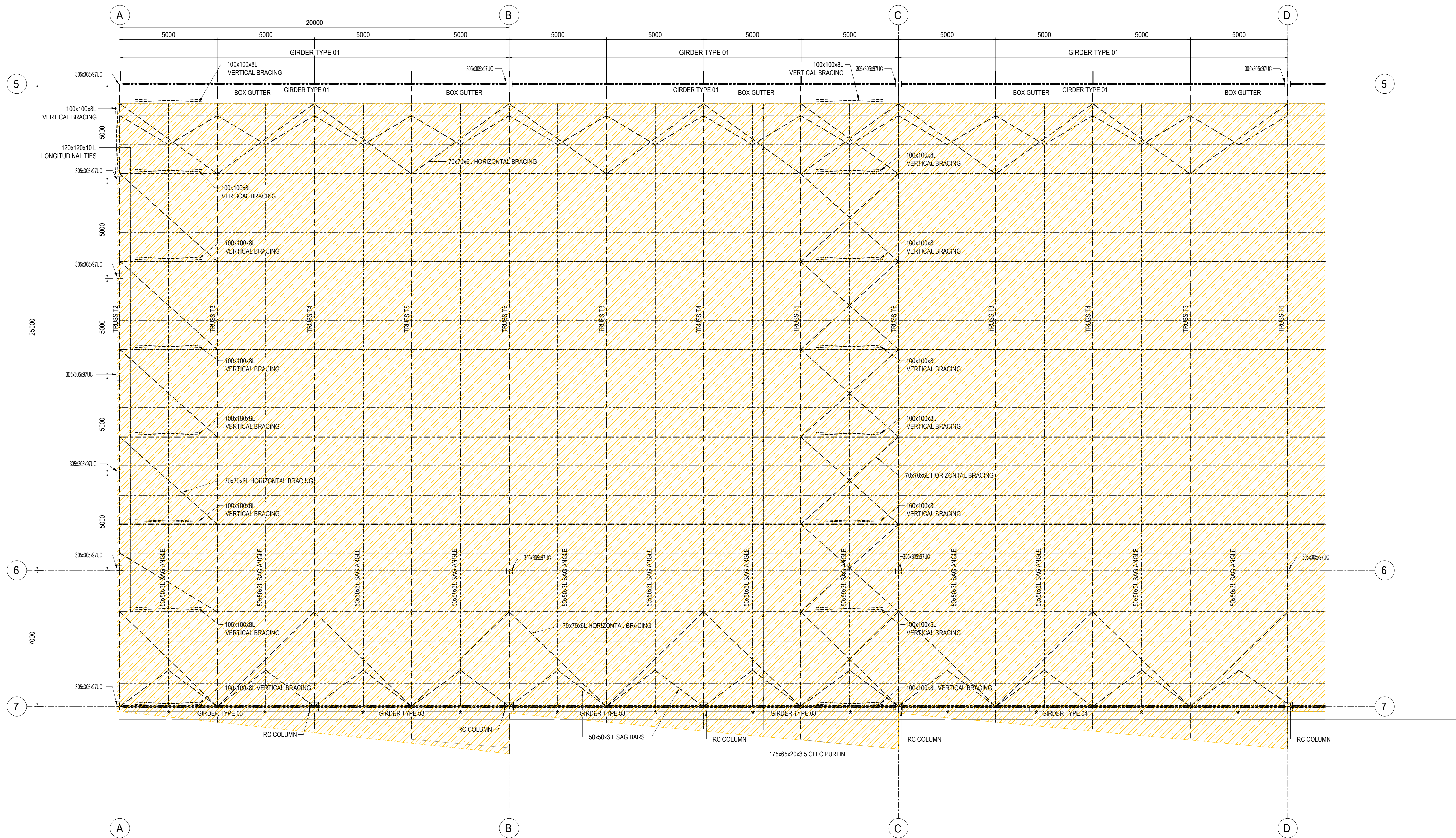
COMPUTER FILE NAME				
DATE 2000/10/13		CLIENT		
SCALE AS SHOWN		FOR ELBO CONSULTING		
DESIGNED BY ONTWERP DEUR				
CHECKED BY NADESEN DEUR				
DRAWN BY GETEKEN DEUR				
CHECKED BY NADESEN DEUR		PROJECT ENGINEER		
QUALITY CHECKS		CONTENT AND ACCURACY	DESIGN COMPLIANCE	PROJECT COMPLIANCE
PROJECT				
<p style="text-align: center;">AEROKLASDUYS AUTO HUB</p>				
TITLE				
STEEL ROOF LAYOUT- BLOCK C				
PAPER SIZE A0	PROJECT NO. 2020141	DRWG. NO. S-005	REV. Z	



SCALE 1 : 100

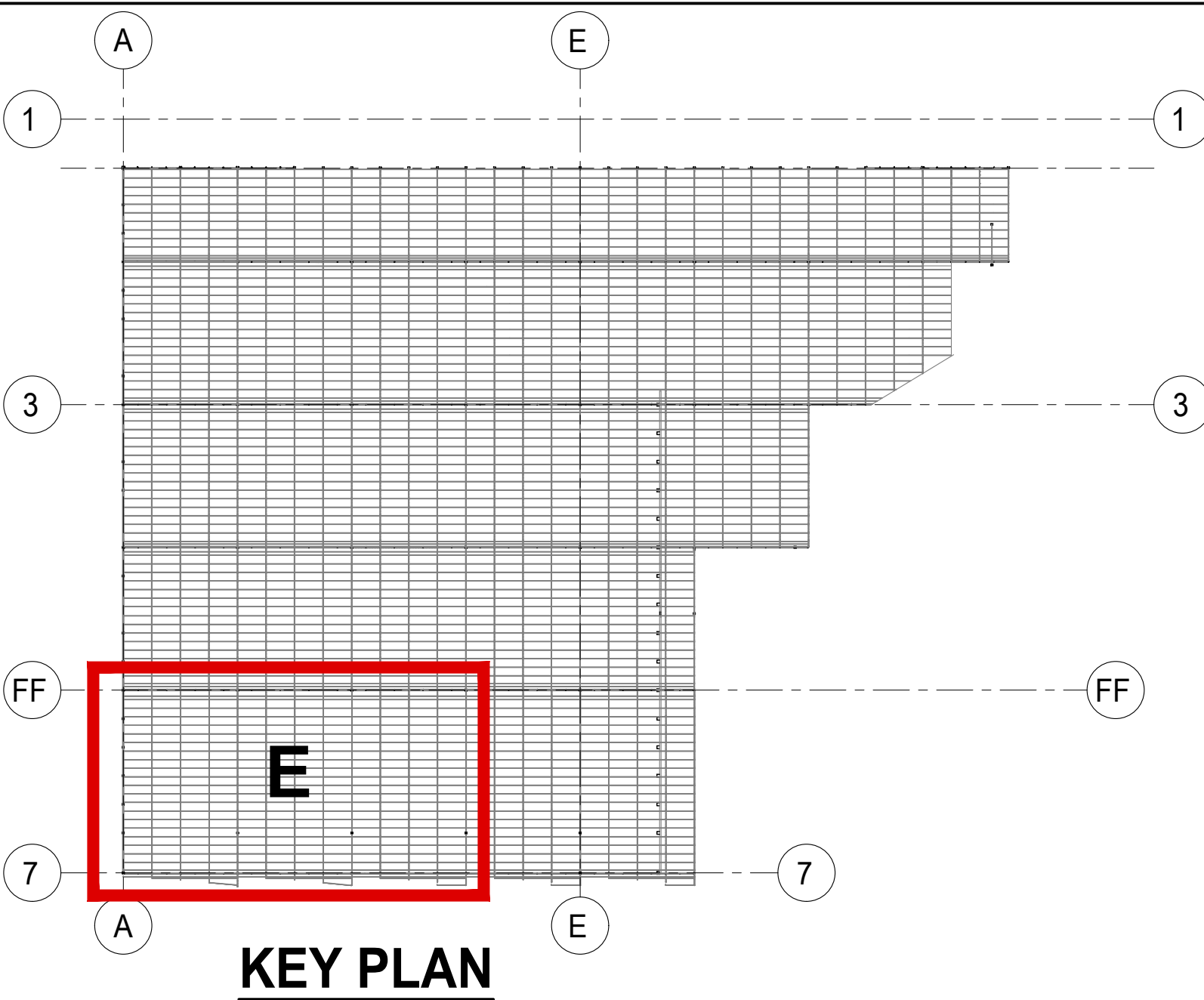


COMPUTER FILE NAME			
DATE DATE	2020/01/13	CLIENT	
DESIGNED BY SCALE	AS SHOWN	FOR ILISO CONSULTING	
CHECKED BY UNIVERSITY DEUR	OK & DD		
CHECKED BY NAESIEN DEUR	RM	PROJECT ENGINEER	
DESIGN BY GETKEN DEUR	TY & JS		
CHECKED BY NAESIEN DEUR	RALDO	DESIGN COMPLIANCE	PROJECT COMPLIANCE
QUALITY CHECKS	CONTENT AND ACCURACY		
PROJECT			
<p style="text-align: center;">AEROKLASDUYS</p> <p style="text-align: center;">AUTO HUB</p>			
<p>TITLE</p> <p style="text-align: center;">STEEL ROOF LAYOUT- BLOCK D</p>			
PAPER SIZE A0	PROJECT NO. 2020141	DRWG. NO. S-006	REV. Z



* = PFC 100x50
EAVES BEAM

ROOF LAYOUT - BLOCK E
SCALE 1 : 100



LEGEND

AREA FOR SOLAR
ALLOWABLE WEIGHT OF 16kg/m²

1. STRUCTURAL STEEL NOTES
- 1.1 ALL STEEL WORK TO BE MANUFACTURED IN ACCORDANCE WITH SANS 1200-1:1990
 - 1.2 U.N.O. ALL STEEL WORK TO BE GRADE 300MA AND COMPLY WITH REQUIREMENTS OF SANS 1431
 - 1.3 THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE ARCHITECT'S DRAWINGS AND CHECKED AGAINST SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER.
 - 1.4 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FINAL VERIFICATION OF ALL STEEL WORK DIMENSIONS BEFORE MANUFACTURING ANY COMPONENT ON OR OFF SITE.
 - 1.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SHOP DETAILS. THE ENGINEER WILL REQUIRE 5 WORKING DAYS FOR APPROVAL OF THE DRAWINGS.
 - 1.6 POSITION OF ALL HD BOLTS TO BE CHECKED BEFORE BRINGING FABRICATED STEEL ON SITE.
 - 1.7 ALL GUSSETS, CLETS TO BE A MINIMUM OF 8mm PLATE UNLESS SHOWN OTHERWISE.
 - 1.8 GUTTERS ARE TO BE WATER TESTED TO ENSURE ALL JOINTS ARE WATERTIGHT.
 - 1.9 CENTER OF GRAVITY OF TRUSS AND GIRDER MEMBERS AT A JOINT TO INTERSECT AT A SINGLE NODE POINT.
 - 1.10 NO PUNCHING OF HOLES WILL BE PERMITTED.
 - 1.11 ALL BOLTS SHALL BE M20 G4.8 U.N.O.
 - 1.12 FLAME CUTTING OF HOLES WILL NOT BE PERMITTED.
 - 1.13 FLAME CUTTING OF HOLES IN EXISTING STEEL WORK WILL NOT BE PERMITTED WITHOUT CLIENT'S PRIOR PERMISSION.
 - 1.14 WELDINGS SHALL BE DONE BY OR UNDER THE SUPERVISION OF CODED WELDERS.
 - 1.15 ALL WELDS TO BE 5mm FW CONTINUOUS U.N.O.
2. SURFACE PROTECTION :
- 2.1 WIRE BRUSH TO ST2
 - 2.2 ONE COAT SIGMA SIGMARINE MULTIPRIMER DFT 35 MICRON
 - 2.3 ONE COAT UNIVERSAL UNDERCOAT TO SABS 681 TYPE 2 DFT 30 MICRON
 - 2.4 ONE COAT GLOSS ENAMEL TO SANS 630 TYPE 1 DFT 30 MICRON
 - 2.5 FINAL COLOR TO BE CONFIRMED BY CLIENT.

AS-BUILT DRAWINGS

No.	Description / Revisions	Date
1	AS-BUILT DRAWINGS	2022/10/03

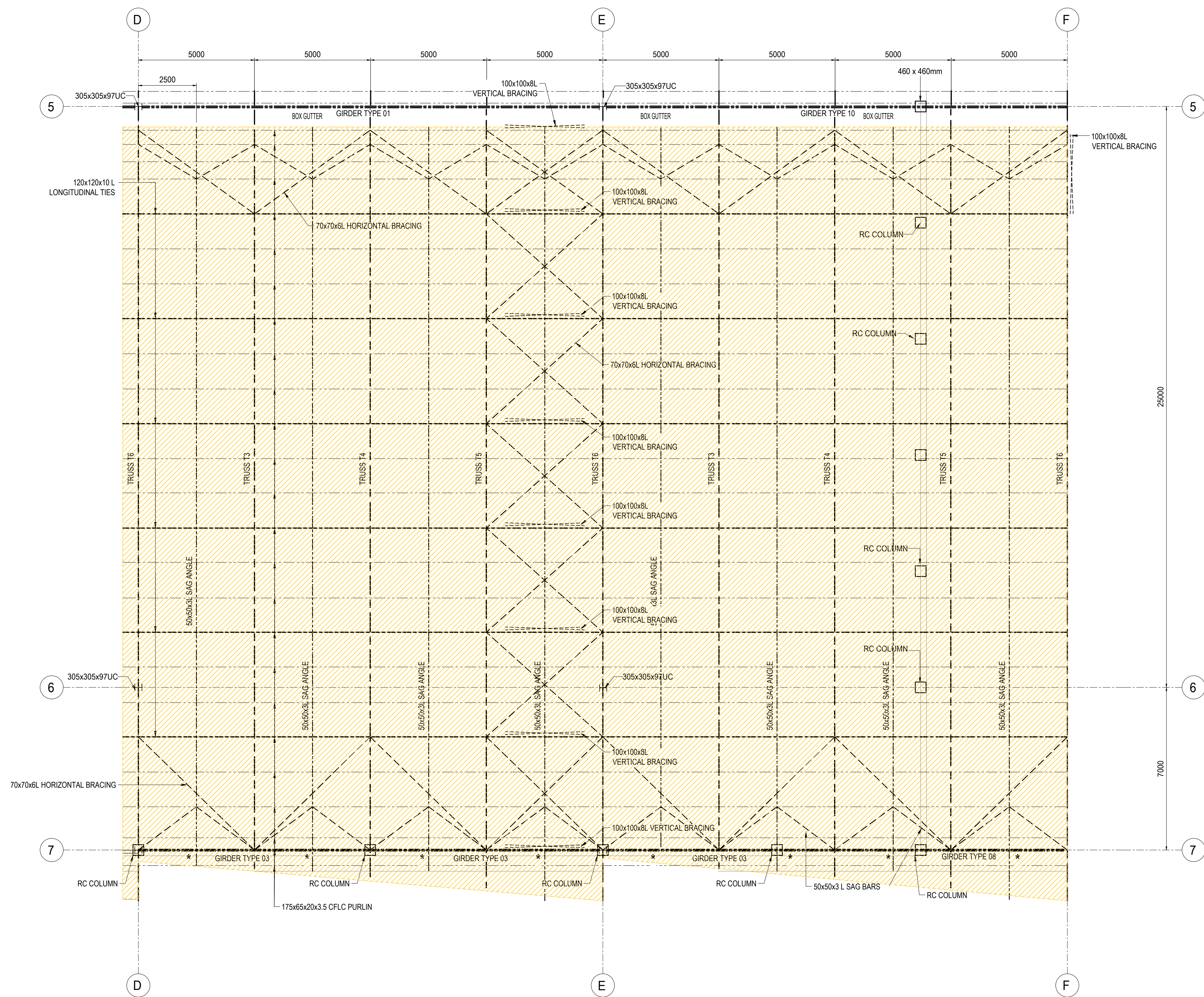
NAKO
ILISO

ENGINEERS • PROJECT MANAGERS • ENVIRONMENTAL MANAGERS

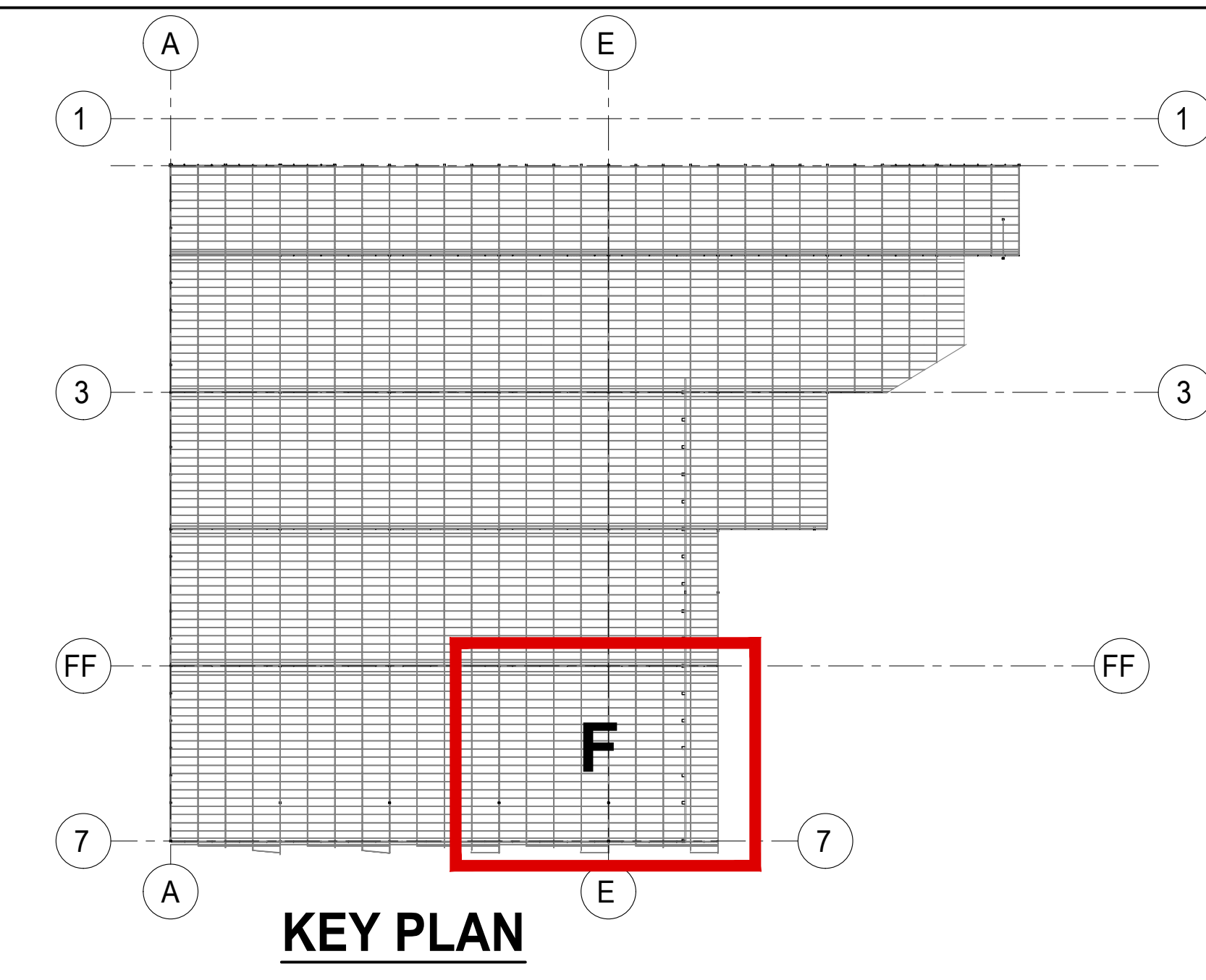
ILISO HOUSE
102 Park Drive, St Georges Park
P.O. Box 5885, Walmer, 6005
E-mail : iliso@iliso.com

Tel: 041 - 582 3586
Fax: 041 - 582 3007
www.iliso.com

COMPUTER FILE NAME			
DATE	2020/10/13	CLIENT	
SCALE	AS SHOWN		
DESIGNED BY	DN & DD	FOR ILISO CONSULTING	
CHECKED BY	RM		
DRAWN BY	TF & JS	PROJECT ENGINEER	
CHECKED BY	RM/DD		
QUALITY CHECKS	CONTENT AND ACCURACY	DESIGN COMPLIANCE	PROJECT COMPLIANCE
PROJECT			
AEROKLASDUYS AUTO HUB			
TITLE			
STEEL ROOF LAYOUT- BLOCK E			
PAPER SIZE	PROJECT NO.	DRWG. NO.	REV.
A0	2020141	S-007	Z



ROOF LAYOUT - BLOCK F
SCALE 1 : 100



KEY PLAN

LEGEND

AREA FOR SOLAR
ALLOWABLE WEIGHT OF 16kg/m²

* = PFC 100x20
EAVES BEAM

1. STRUCTURAL STEEL NOTES
- 1.1 ALL STEEL WORK TO BE MANUFACTURED IN ACCORDANCE WITH SANS 1200H-1980
 - 1.2 U.N.O. ALL STEEL WORK TO BE GRADE 350MA AND COMPLY WITH REQUIREMENTS OF SANS 1431
 - 1.3 THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE ARCHITECT'S DRAWINGS AND CHECKED AGAINST SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER.
 - 1.4 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FINAL VERIFICATION OF ALL STEEL WORK DIMENSIONS BEFORE MANUFACTURING ANY COMPONENT ON OR OFF SITE.
 - 1.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SHOP DETAILS. THE ENGINEER WILL REQUIRE 5 WORKING DAYS FOR APPROVAL OF THE DRAWINGS.
 - 1.6 POSITION OF ALL HD BOLTS TO BE CHECKED BEFORE BRINGING FABRICATED STEEL ON SITE.
 - 1.7 ALL GUSSETS, CLEATS TO BE A MINIMUM OF 8mm PLATE UNLESS SHOWN OTHERWISE.
 - 1.8 GUTTERS ARE TO BE WATER TESTED TO ENSURE ALL JOINTS ARE WATERTIGHT.
 - 1.9 CENTER OF GRAVITY OF TRUSS AND GIRDER MEMBERS AT A JOINT TO INTERSECT AT A SINGLE NODE POINT.
 - 1.10 NO PUNCHING OF HOLES WILL BE PERMITTED.
 - 1.11 ALL BOLTS SHALL BE M20 G4.8 U.N.O.
 - 1.12 FLAME CUTTING OF HOLES WILL NOT BE PERMITTED.
 - 1.13 FLAME CUTTING OF HOLES IN EXISTING STEEL WORK WILL NOT BE PERMITTED WITHOUT CLIENT'S PRIOR PERMISSION.
 - 1.14 WELDING SHALL BE DONE BY OR UNDER THE SUPERVISION OF CODED WELDERS.
 - 1.15 ALL WELDS TO BE 5mm FW CONTINUOUS U.N.O.
2. SURFACE PROTECTION :
- 2.1 WIRE BRUSH TO ST2
 - 2.2 ONE COAT SIGMA SIGMARINE MULTIPRIMER DFT 35 MICRON
 - 2.3 ONE COAT UNIVERSAL UNDERCOAT TO SABS 881 TYPE 2 DFT 30 MICRON
 - 2.4 ONE COAT GLOSS ENAMEL TO SANS 630 TYPE 1 DFT 30 MICRON
 - 2.5 FINAL COLOR TO BE CONFIRMED BY CLIENT.

AS-BUILT DRAWINGS

No.	Description / Revisions	Date
1	AS-BUILT DRAWINGS	2022/03/08

NAKO
ILISO
ENGINEERS • PROJECT MANAGERS • ENVIRONMENTAL MANAGERS

ILISO HOUSE
102 Park Drive, St Georges Park
P.O. Box 5885, Walmer, 6005
E-mail : iliso@iliso.com

Tel: 041 - 582 3056
Fax: 041 - 582 3057
www.iliso.com

COMPUTER FILE NAME			
DATE	2020/10/13	CLIENT	
SCALE	AS SHOWN	FOR ILISO CONSULTING	
DESIGNED BY	DN & DD	PROJECT ENGINEER	
CHECKED BY	RM	PROJECT ENGINEER	
DRAWN BY	TF & JS	PROJECT ENGINEER	
CHECKED BY	RM/DD	PROJECT ENGINEER	
QUALITY CHECKS	CONTENT AND ACCURACY	DESIGN COMPLIANCE	PROJECT COMPLIANCE
PROJECT			
AEROKLASDUYS AUTO HUB			
TITLE			
STEEL ROOF LAYOUT- BLOCK F			
PAPER SIZE	PROJECT NO.	DRWG. NO.	REV.
A0	2020141	S-008	Z