GENERAL NOTES

1.0 DIMENSIONS

1.1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METERS.

2.0 MATERIAL SPECIFICATIONS

2.1. UNLESS OTHERWISE NOTED IN THE DRAWING, ALL STRUCTURAL STEEL SHALL BE OF WELDABLE QUALITY CONFORMING TO STEEL GRADE S355 ACCORDING TO BS EN 10025, GRADE S355J2H ACCORDING TO BS EN 10210 AND COMPLY WITH EMPLOYER'S REQUIREMENTS UNLESS OTHERWISE NOTED.

2.2. BOLTS, NUTS AND WASHERS:

2.2.1. HIGH STRENGTH BOLTS (QUALITY 10.9), NUTS AND WASHERS SHALL CONFORM TO BS EN 14399 OR EQUIVALENT DIN 6914,6915,6916,6917,6918.

2.2.2. HIGH STRENGTH BOLTS (QUALITY 8.8), NUTS AND WASHERS SHALL CONFORM TO BS EN 14399 OR EQUIVALENT DIN 933,934,126.

2.2.3. BOLTS (QUALITY 4.6), NUTS AND WASHERS SHALL CONFORM TO BS EN 14399 OR EQUIVALENT DIN 7990,555,7989,434,435.

2.2.4. ONLY TESTED MATERIALS SHALL BE USED UNLESS WRITTEN AUTHORITY IS GRANTED FOR UNTESTED MATERIALS FOR CERTAIN PARTS.

2.3. WELDING

2.3.1. ELECTRODES FOR SHIELDED METAL ARC WELDING (MMAW) OF MILD STEEL SHALL CONFORM TO DIN EN 449 OR AWS EQUIVALENT. FOR ALL OTHER TYPES OF WELDING SUCH AS, SUBMERGED ARC WELDING (SAW) ETC., ELECTRODES, FLUX/FILLER MATERIALS SHALL CONFORM TO RELEVANT DIN OR AWS STANDARDS.

2.3.2. THE GRADE OF THE WELD METAL SHALL BE AT LEAST EQUAL TO THAT OF PARENT METAL AND BE AT LEAST EQUAL TO THOSE OF STEEL GRADE USED. MINIMUM THROAT TO BE 5mm UNLESS OTHERWISE NOTED.

2.4. ALL FLASHING, RIDGING, CORNER PIECES SHALL BE OF GALVANIZED STEEL SHEETS.

2.5. ALL ROOF CLADDING ARE SANDWICH PANEL UNLESS OTHERWISE NOTED.

2.6. ALL FIXING ACCESSORIES FOR LOUVER SHEETING SHALL BE OF GALVANIZED STEEL.

2.7. ALL FLOOR SHALL BE ALL GRATING WITH BEARING BARS (30MM X 3MM) & OPENING (30MM X 50MM) & TWISTED BARS 5 MM (U.O.N).

2.8. ALL PURLIN AND SIDE GIRT SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.

3.0 DESIGN AND DETAILING

3.1. UNLESS OTHERWISE STATED ALL PROVISIONS OF THE BRITISH CODE BS 5950 CODE OF PRACTICE FOR DESIGN AND SPECIFICATION PERTAINING TO DESIGN, DETAILING AND CONSTRUCTION SHALL APPLY. IN CASE SUITABLE BRITISH CODES AND STANDARDS ARE NOT AVAILABLE, ANY INTERNATIONAL CODES OR EQUIVALENT SHALL BE APPLICABLE.

3.2. FOR DETAILING AND CONSTRUCTION OF WELDED CONNECTIONS ALL PROVISIONS OF BS STANDARD OR EQUIVALENT AWS OR DIN 18800 – PART 1 AND SPECIFICATIONS PERTAINING TO DESIGN, DETAILING AND CONSTRUCTION SHALL APPLY.

3.3. ALL BOLTS ARE (8.8) EXCEPT OTHERWISE REQUIRED OR NOTED IN THE DRAWING.

3.4. ALL WELDS THICKNESS SHOULD BE (0.8 Tmin), NOT LESS THAN 5MM LEG SIZE CONTINUOUS FILLET AND FOR BUILT UP SECTION WELD THICKNESS SHOULD BE (0.5 Tmin) AND NOT LESS THAN 4MM LEG SIZE CONTINUOUS FILLET UNLESS OTHERWISE NOTED.

3.5. UNLESS OTHERWISE INDICATED IN THE DRAWING, THE LEG OF FILLET WELD ON THE TOE SIDE OF ANGLES OR PROFILES HAVING A THICKNESS EQUAL TO OR LESS THAN 6MM SHALL BE EQUAL TO THE THICKNESS OF THE MEMBER TOE MINUS 1mm.

3.6. THE LENGTH OF WELD SHOWN FOR ANGLES INDICATES MINIMUM DESIGNED LENGTH REQUIRED ON THE HEEL SIDE.

3.7. WHERE NO FASTNER IS INDICATED ON THE DRAWING FOR MEMBERS OF TRUSSES, BRACING OR ANY SUCH OTHER LATTICED MEMBERS, THE END CONNECTIONS SHALL BE DEVELOPED WITH MIN. 2 NOS. M20 BOLTS (GRADE 8.8) OR EQUIVALENT WELDING TO TRANSFER 5T LOAD.

3.8. IRRESPECTIVE OF WELDING LENGTHS ON THE DRAWING, FULL CONTACT LENGTH BETWEEN GUSSET PLATE AND MEMBERS SHALL BE WELDED IN ALL CASES UNLESS OTHERWISE NOTED.

3.9. BEFORE WELDING, ALL SURFACES IN THE WELD AREA AND THE CONTACT FACES SHALL BE PROPERLY CLEANED.

3.10. MEMBERS COMPOSED OF TWO ANGLES/CHANNELS BACK TO BACK ARE TO BE STITCHED TOGETHER ASSUMING COMPRESSIVE FORCE IN THE MEMBERS. THE INACCESSIBLE PARTS OF THE MEMBERS INCLUDING THE SEPARATORS ARE TO BE PAINTED PRIOR TO ASSEMBLY.

3.11. THE STEEL STRUCTURE WAS DESIGNED TO WITHSTAND THE FOLLOWING LOADS

1. D.L.
   - 1.1. O.W. OF STEEL STRUCTURE.
   - 1.2. O.W. OF CLADDING OR FLOORING.
2. – L.L.
   - 2.1. ROOF LIVE LOAD.
   - 2.2. MECH./ARCH./ELETRIC FEATURES

(LOADING SHOULD BE MADE ON THE MAIN STEEL STRUCTURAL ELEMENTS DIRECTLY).

3.12. ALL FIELD SPLICES SHALL BE DESIGNED TO SUSTAIN THE MAX. CAPACITY OF THE SECTION. THE CONTRACTOR SHALL PROVIDE THE EXACT LOCATION OF ALL FIELD SPLICES FOR THE ENGINEER'S APPROVAL.

4.0 SHOP CONSTRUCTION

4.1. ALL SHOP STEEL WORK SHALL BE OF WELDED CONSTRUCTION UNLESS OTHERWISE NOTED.

4.2. FOR AUTOMATIC/SEMI–AUTOMATIC WELDING, PROCEDURE TESTS FOR ESTABLISHING WELDING PARAMETERS SHALL BE CARRIED OUT PRIOR TO START OF ACTUAL WELDING.

4.3. RECOMMENDATIONS OF THE MANUFACTURER FOR PRESERVATION AND APPROPRIATE USE OF WELDING CONSUMABLES SHALL BE STRICTLY FOLLOWED.

4.4. DUE TO NON–AVAILABILITY OF REQUIRED LENGTH OF PLATES FOR ANY STRUCTURAL ELEMENT (EXCEPT FOR MEMBERS SUBJECTED TO REPETITIVE LOADS); FULL STRENGTH BUTT–WELDED SPLICES ARE TO BE PROVIDED. NON–DESTRUCTIVE TESTS SHALL BE PERFORMED 100%UT JOINTS/ACCORDING TO THE APPROVED QUALITY PLAN.

4.5. ALL BUTT WELDS SHALL BE OF FULL PENETRATION TESTED QUALITY ACCORDING TO THE QUALITY PLAN. BUTT–WELDED JOINTS IN PLATES SHALL BE DONE USING RUN–ON AND RUN–OFF PLATES; SUCH PLATES SHOULD BE CUT OFF AFTER WELDING AND THE EDGES GROUND FLUSH WITH THE PARENT PLATES.

4.6. BEFORE PUTTING THE SEALING RUN IN MANUAL METAL ARC BUTT WELDED JOINTS, THE ROOT RUN SHALL BE GOUGED OUT AND BACK–WELDED.

4.7. EDGE PREPARATION SEALING FOR MANUAL METAL ARC WELDING (MMAW) AND SUBMERGED ARC WELDING (SAW) SHALL CONFORM TO DIN 8551 PART 1 & DIN 8551 PART 4, RESPECTIVELY OR EQUIVALENT AWS STANDARDS.

4.8. GUIDANCE AND QUALITY LEVELS FOR IMPERFECTION FOR ARC WELDED CONNECTIONS SHALL BE ACCORDING TO BS STANDARD OR EQUIVALENT DIN.EN.25817 OR AWS.

4.9. ALL GAS–CUT FACES SHALL CONFORM TO AT LEAST QUALITY CLASS 1 AND SHALL BE APPROVED BY THE ENGINEER.

4.10. HOLES FOR BOLTS SHALL ONLY BE DRILLED FOR PLATE THICKNESS BIGGER THAN 12MM AND PUNISHING FOR OTHER PLATE THICKNESS UNLESS NOTED.

4.11. LAMINATION TEST SHALL BE PERFORMED FOR PLATES 40mm OR THICKER.

4.12. MACHINED SURFACES OF STEEL MEMBERS (WHERE NECESSARY) SHALL BE PREPARED TO ENSURE FULL CONTACT AFTER ASSEMBLY.

5.0 SITE CONSTRUCTION

5.1. ALL SITE CONNECTIONS FOR SECONDARY MEMBERS SUCH AS RAFTER, BRACING, POSTS, LADDERS ETC. SHALL BE DEVELOPED WITH GRADE 4.6 BOLTS UNLESS OTHERWISE INDICATED IN THE DRAWING.

5.2. ALL OTHER CONNECTIONS SHALL BE OF GRADE 8.8 BOLTS UNLESS OTHERWISE MENTIONED IN THE DRAWING.

5.3. ALL SITE SPLICES SHALL BE DEVELOPED WITH SUITABLE COVER PLATES AND H.S.B. GRADE 10.9 UNLESS OTHERWISE NOTED OR SHOWN IN THE DRAWING.

6.0 PAINTING

ALL SURFACES OF IRON AND STEEL WORK SHALL BE PAINTED AS FOLLOWS IN ACCORDANCE WITH PROJECT AND PAINT SYSTEM SHALL BE A COMPLETE FROM MANUFACTURE APPROVED FROM THE ENGINEER: –

6.1. IN WORKSHOP:

6.1.1. Sand Blast cleaning (SA 2½) prior to painting (acc. ISO 8501–1)

6.1.2. THREE COATS OF EPOXY PAINT AS FOLLOWS:
ONE COAT EPOXY ZINC RICH WITH 50μM D.F.T.
ONE INTERMEDIATE COAT H.B. EPOXY WITH 125μM D.F.T.
ONE FINISH COAT POLYURETHANE WITH 50μM D.F.T.
THE COATING TO BE EXECUTED WITH AIRLESS SPRAY EQUIPMENT IN A DUST FREE AREA.
TOTAL DRY THICKNESS 225 μm.

6.1.1. Sand Blast cleaning (SA 2½) prior to painting (acc. ISO 8501–1)

6.1.2. THREE COATS OF EPOXY PAINT AS FOLLOWS (FOR WAREHOUSE AND ADMINISTRATION BUILDING):
ONE COAT EPOXY ZINC RICH WITH 50μM D.F.T.
ONE INTERMEDIATE COAT OF INTUMESCENT PAINT WITH 60/120–MINUTE FIRE RATING FOR WAREHOUSE
ONE FINISH COAT POLYURETHANE WITH 50μM D.F.T.
THE COATING TO BE EXECUTED WITH AIRLESS SPRAY EQUIPMENT IN A DUST FREE AREA.

6.1.1. Sand Blast cleaning (SA 2½) prior to painting (acc. ISO 8501–1)

6.1.2. THREE COATS OF EPOXY PAINT AS FOLLOWS (FOR HAZARD BUILDING):
ONE COAT EPOXY ZINC RICH WITH 50μM D.F.T.
ONE INTERMEDIATE COAT OF INTUMESCENT PAINT WITH 120–MINUTE FIRE RATING
ONE FINISH COAT POLYURETHANE WITH 50μM D.F.T.
THE COATING TO BE EXECUTED WITH AIRLESS SPRAY EQUIPMENT IN A DUST FREE AREA.

6.2. AT SITE:

6.2.1. CLEANING.

6.2.2. TOUCH–UP OF DAMAGES DUE TO TRANSPORT AND ERECTION WORKS, WITH IF NECESSARY, THE PRIMER, INTERMEDIATE AND FINAL COAT TO ACHIEVE THE REQUESTED PROTECTION.

6.3. SURFACES NOT TO BE PAINTED

a. SURFACES TO BE IN CONTACT WITH CONCRETE OR MORTAR U.O.N.
b. CONTACT SURFACES OF MEMBERS TO BE JOINED BY HIGH STRENGTH BOLTS OF FRICTION TYPE.

7.0 GENERAL

7.1. BOLTS OF GRADE 10.9 SHALL BE TIGHTENED WITH 100% OF THE TORQUE TO ACHIEVE FULL TENSILE CAPACITY OF THE BOLTS UNLESS OTHERWISE NOTED IN THE DRAWING.

7.2. ALL CONNECTIONS ARE TO BE DEVELOPED AS PER THE DETAILS AND LOADS SHOWN IN THE DRAWINGS.

7.3. ALL BS STANDARD CODES AND SPECIFICATIONS SHALL BE THE LATEST PUBLISHED EDITION THEREOF.

7.4. ALL SIDE AND GABLE STEEL WORK ARE TO BE MADE OF BOLTED CONNECTION WITH PROVISION FOR EASE OF DISMANTLING AND REUSE, IF REQUIRED.

7.5. ALL HOLES FOR STEEL BOLTS SHALL BE IN ACCORDANCE WITH THE BS STANDARD CODE OF PRACTICE, UNLESS OTHERWISE NOTED.

7.6. THE DIAMETER OF HOLES SHALL BE LARGER THAN NOMINAL DIAMETER OF BOLTS , IN ACCORDANCE WITH THE BS STANDARD CODE REQUIREMENTS.

7.7. FRAME DIMENSIONS AND LOCATIONS GIVEN ON CONTRACT DRAWINGS SHOUD BE CHECKED WITH ARCHITECTURAL DRAWINGS AND AS BUILT SITE CONDITIONS PRIOR TO FABRICATION.

7.8. ALL COMPONENTS OF ROOF AND INTERMEDIATE ROOF BEAMS, LONGITUDINAL ROOF GIRDERS, AS WELL AS COLUMNS SHALL SHOULD BE CHECKED FOR DIMENSIONS AND STRAIGHTNESS, ...ETC. TO SATISFY THE ALLOWABLE TOLERANCES DUE TO FABRICATION AND ERECTION.

8.0 LEGEND

01	AXIS NUMBER
(+10.000)	TOP OF CONCRETE LEVEL IN PLAN
(+10.000)	LEVEL IN ELEVATION
A	REVISION MARK
	BREAK LINE
	SETTING OUT POINT
	OPENING
	REINFORCED CONCRETE
	PLAIN CONCRETE
	EXPANSION JOINTS
1 DWG. No. / 1 DWG. No.	SECTION MARK (WHERE SECTION IS SHOWN ON A DIFFERENT DRAWING)
1 / 1	SECTION MARK (WHERE SECTION IS SHOWN ON THE SAME DRAWING)
A DWG. No.	ELEVATION MARK (WHERE ELEVATION IS SHOWN ON A DIFFERENT DRAWING)
PN N	NORTH POINT (PN – PLANT NORTH)
B DWG. No.	DETAIL MARK
A DWG.No. ELEVATION 1:50 DWG. No. WHERE ELEVATION MARK IS CALLED UP	SUB–TITLE FOR ELEVATION
1 DWG.No. SECTION 1:50 DWG. No. WHERE SECTION MARK IS CALLED UP	SUB–TITLE FOR SECTION
B DWG.No. DETAIL 1:50 DWG. No. WHERE DETAIL MARK IS CALLED UP	SUB–TITLE FOR DETAIL
T.O.S.	TOP OF STEEL
B.O.S.	BOTTOM OF STEEL
T.O.G.	TOP OF GRATING
T.O.C.	TOP OF CONCRETE
F.F.L	FINISHED FLOOR LEVEL
S.O.G	TOP OF SLAB ON GRADE

NO.	DATE	DESCRIPTION	DESIGNED BY	DECKED BY	APPROVED BY
R7					
R6					
R5					
R4					
R3					
R2					
0	30-06-20	ISSUED FOR APPROVAL	A.SAID	A.SAID	M.HELMY

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CLIENT: NatPharm — Access to Affordable Quality Medicines

MAIN CONSULTANT: COSMOS-E

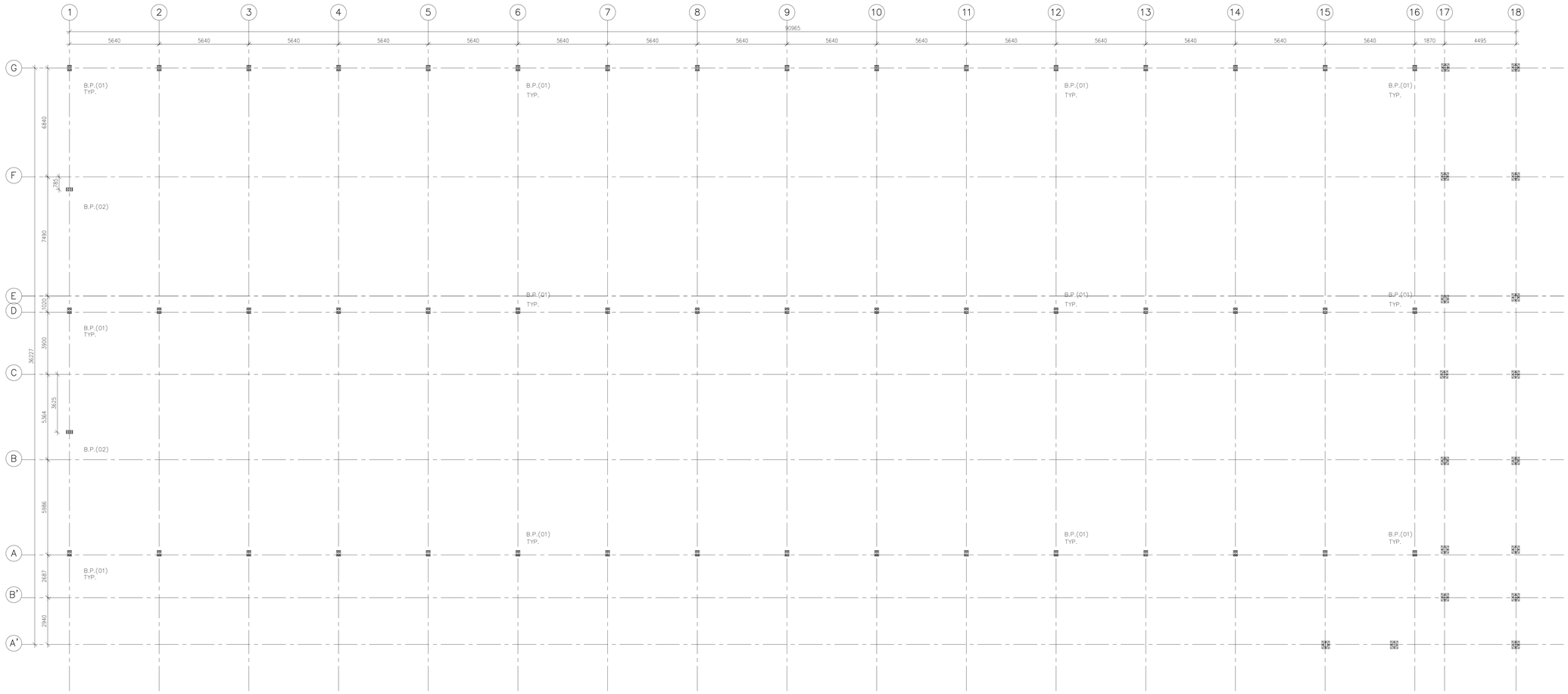
LOCAL CONSULTANT: NYIKA ENGINEERING & TECHNICAL SERVICES (PVT) LTD

PROJECT TITLE: ZIMBABWE (MUTARE) MEDICAL WAREHOUSE

DRAWING TITLE: GENERAL NOTES & DETAILS FOR STEEL STRUCTURE

PROJECT NO. Z2016 | SCALE: NTS

DRAWING NO. Z2016-000-SDE-001-0
PROJECT NUMBER | BUILDING NO. | DOC. DESCRIPTION | DOC. NUMBER | REV.

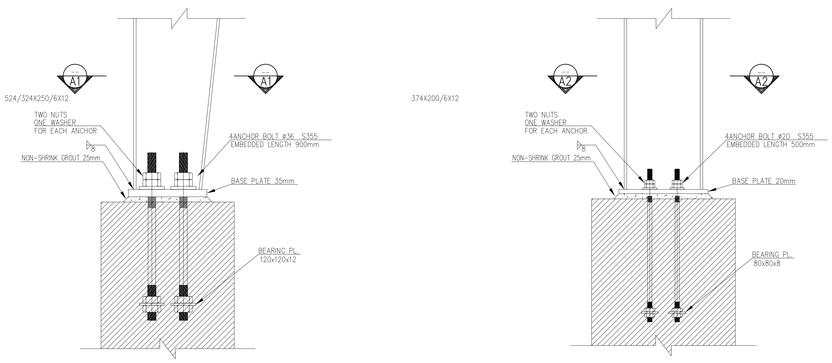


BASE PLATE PLAN
SCALE 1:100

GENERAL NOTES :-

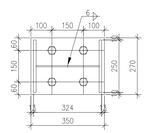
1-ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METERS.
2-ALL PLANS LAYOUT ARE HORIZONTAL PROJECTION VEIWS.
3-DO NOT SCALE ANY DIMENSIONS FROM DRAWINGS.
4-ALL STRUCTURAL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH SPECIFICATIONS, ARCHITECTURAL AND MECHANICAL DRAWINGS.
5-ALL B.U.S.,HOLLOW SECTIONS AND CONNECTION PLATES ARE STEEL S355 (U.O.N.).
6-FINAL DESIGN DRAWINGS SHOULD BE COORDINATED WITH FINAL ARCH. AND MEP BEFORE CONSTRUCTION.

GUIDE DRAWING ONLY



BASE PL.(1)
SCALE 1:10

BASE PL.(2)
SCALE 1:10



A1 SECTION
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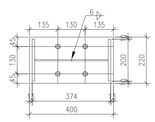

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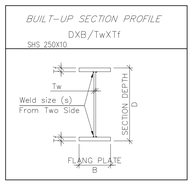

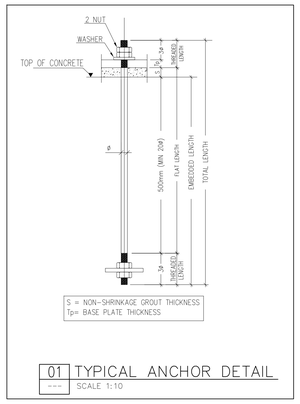

01 TYPICAL ANCHOR DETAIL
SCALE 1:10

INDEX	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
R1	16-07-20	ISSUED FOR TENDER	A.RAHMANY	A.SAID	M.HELMY
0	30-06-20	ISSUED FOR APPROVAL	A.RAHMANY	A.SAID	M.HELMY

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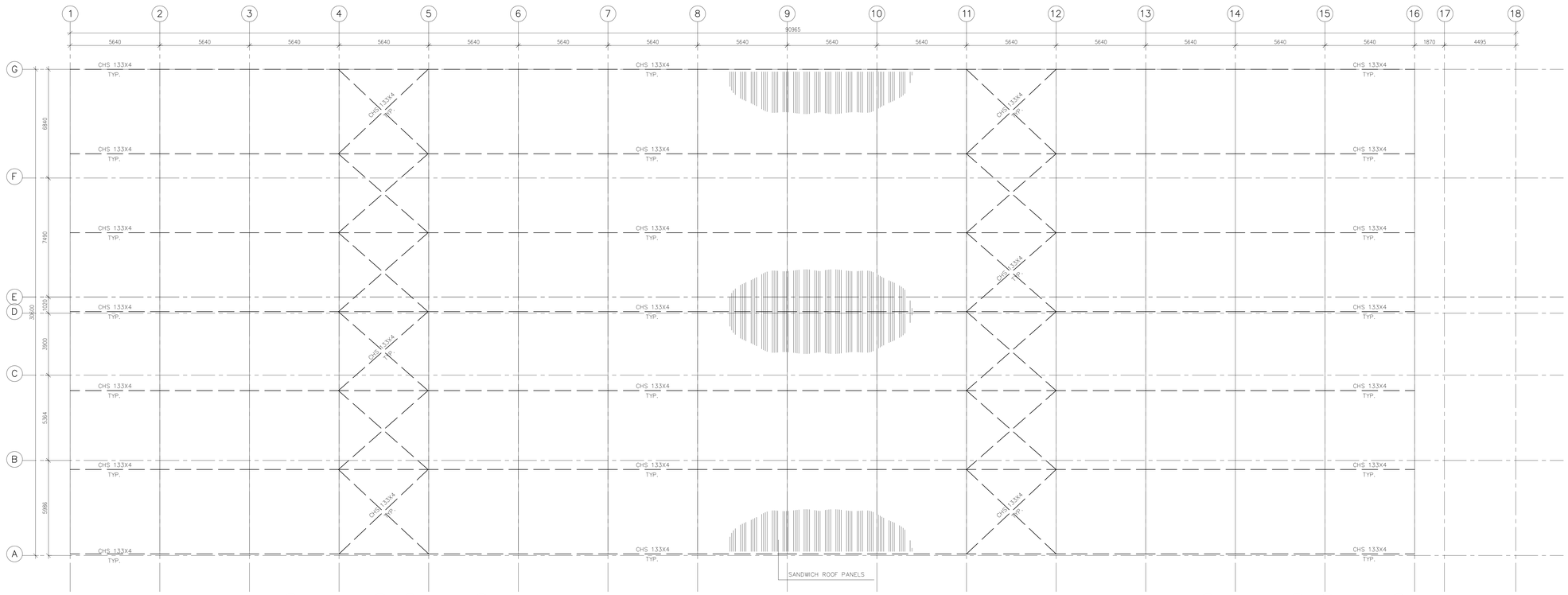
PROJECT TITLE
ZIMBABWE (MUTARE) MEDICAL WAREHOUSE PROJECT

DRAWING TITLE
BASE PLATE PLAN GENERAL LAYOUT

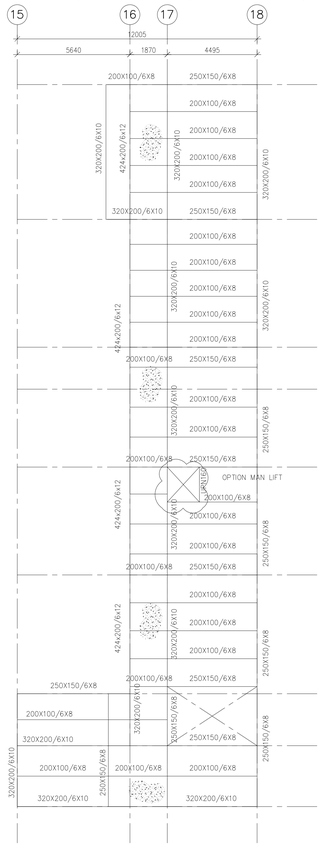
PROJECT NO. Z2016
SCALE: 1:100

DRAWING NO. Z2016-100-SDE-001-1
PROJECT NUMBER | BUILDING NO. | DOC. DESCRIPTION | DOC. NUMBER | REV.

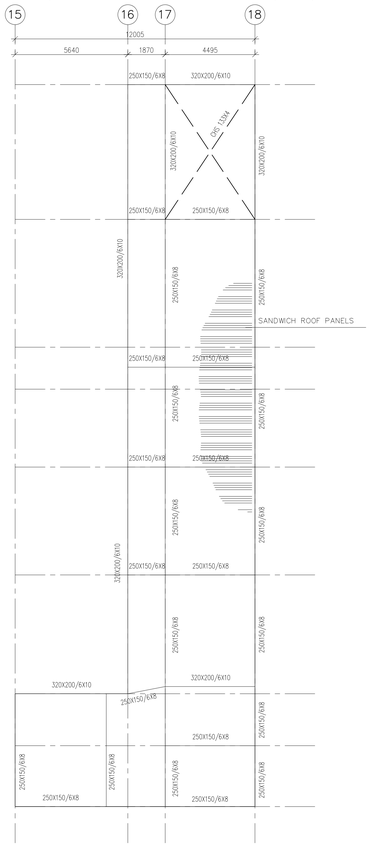
GUIDE DRAWING ONLY



WAREHOUSE ROOF FRAMING PLAN
SCALE 1:100



FRAMING PLAN AT LEVEL (+4.00)
SCALE 1:100



ROOF FRAMING PLAN
SCALE 1:100

INDEX	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
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0	30-06-20	ISSUED FOR APPROVAL	A.RAHMANY	A.SAID	M.HELMY

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PROJECT TITLE
ZIMBABWE (MUTARE) MEDICAL WAREHOUSE PROJECT

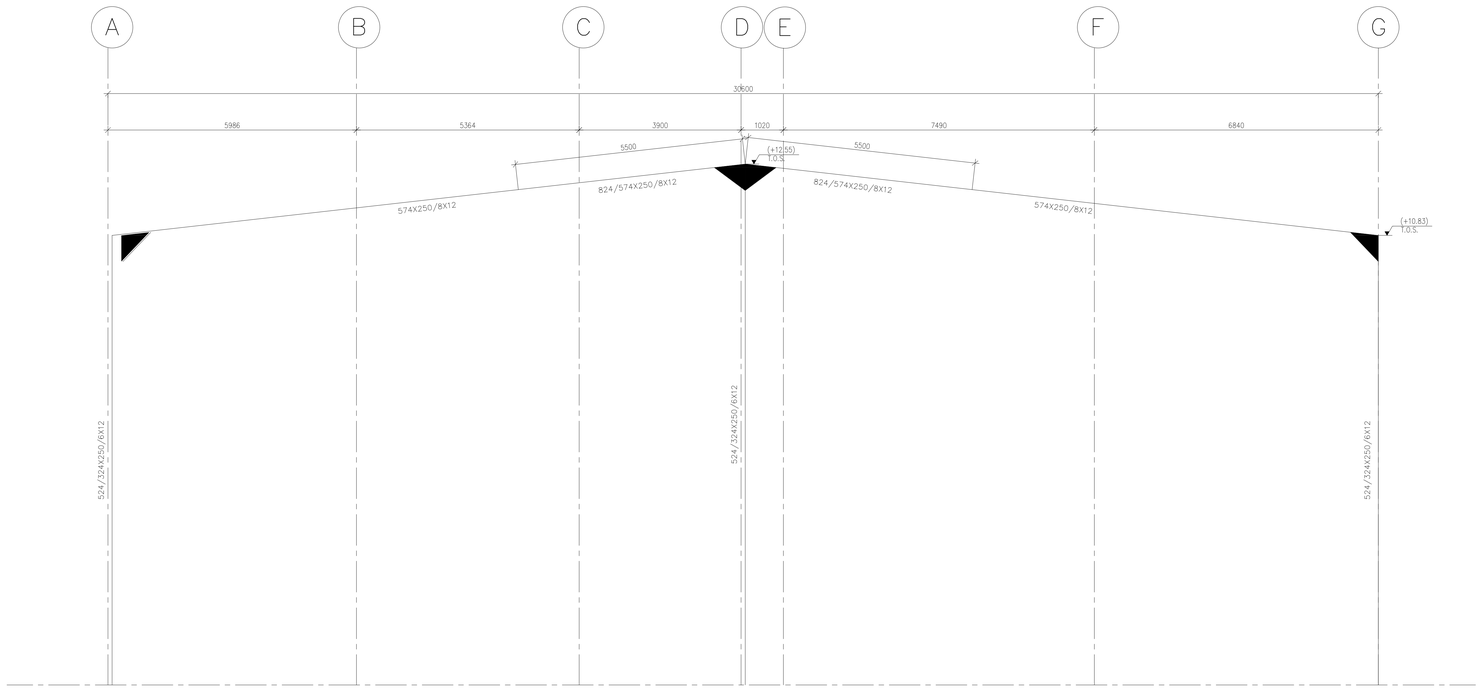
DRAWING TITLE
PLAN VIEWS

PROJECT NO. Z2016

SCALE: 1:100

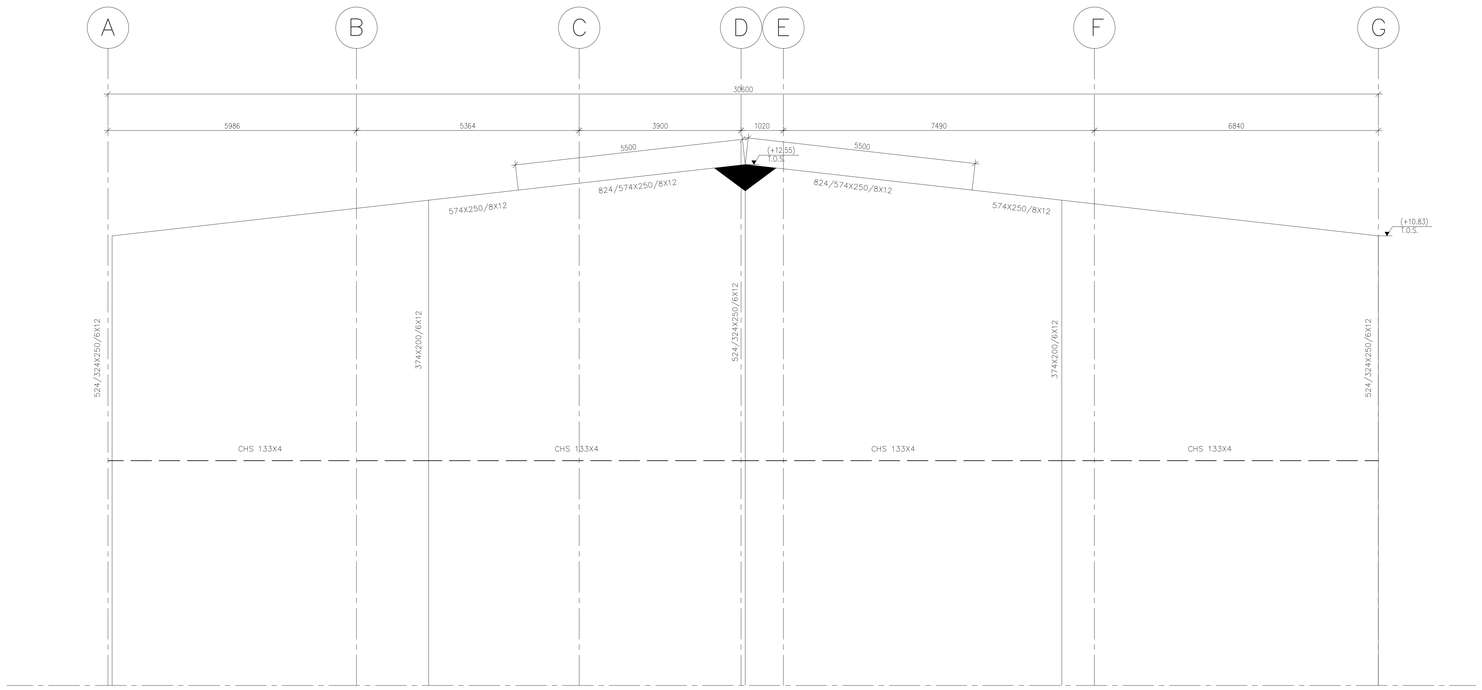
DRAWING NO. Z2016-100-SDE-002-1
PROJECT NUMBER | BUILDING NO. | DOC. DESCRIPTION | DOC. NUMBER | REV.

GUIDE DRAWING ONLY



TYPICAL FRAME ELEVATION

SCALE 1:50



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INDEX	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
R1	16-07-20	ISSUED FOR TENDER	A.RAHMANY	A.SAID	M.HELMY
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PROJECT TITLE

ZIMBABWE (MUTARE) MEDICAL WAREHOUSE PROJECT

DRAWING TITLE

MAIN FRAMING ELEVATION

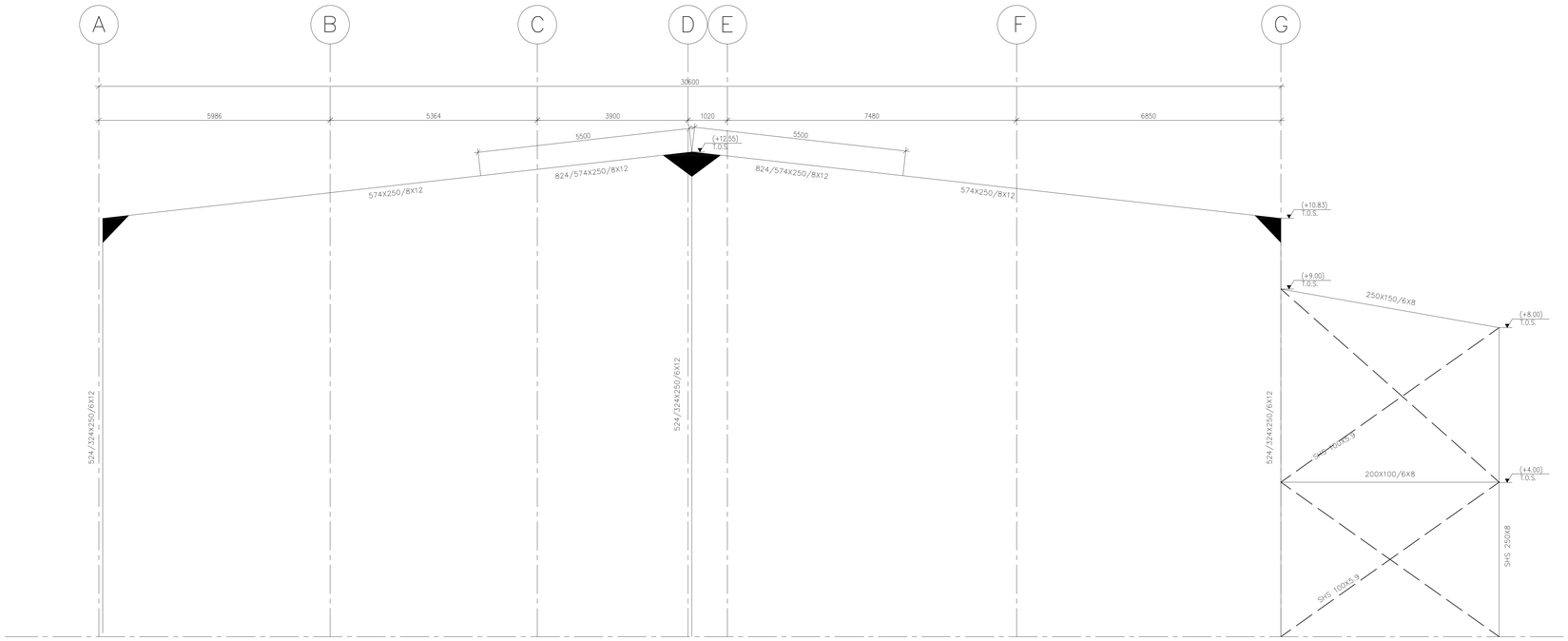
PROJECT NO. Z2016

SCALE: 1:50

DRAWING NO. Z2016-100-SDE-003-1

PROJECT NUMBER | BUILDING NO. | DOC. DESCRIPTION | DOC. NUMBER | REV.

GUIDE DRAWING ONLY



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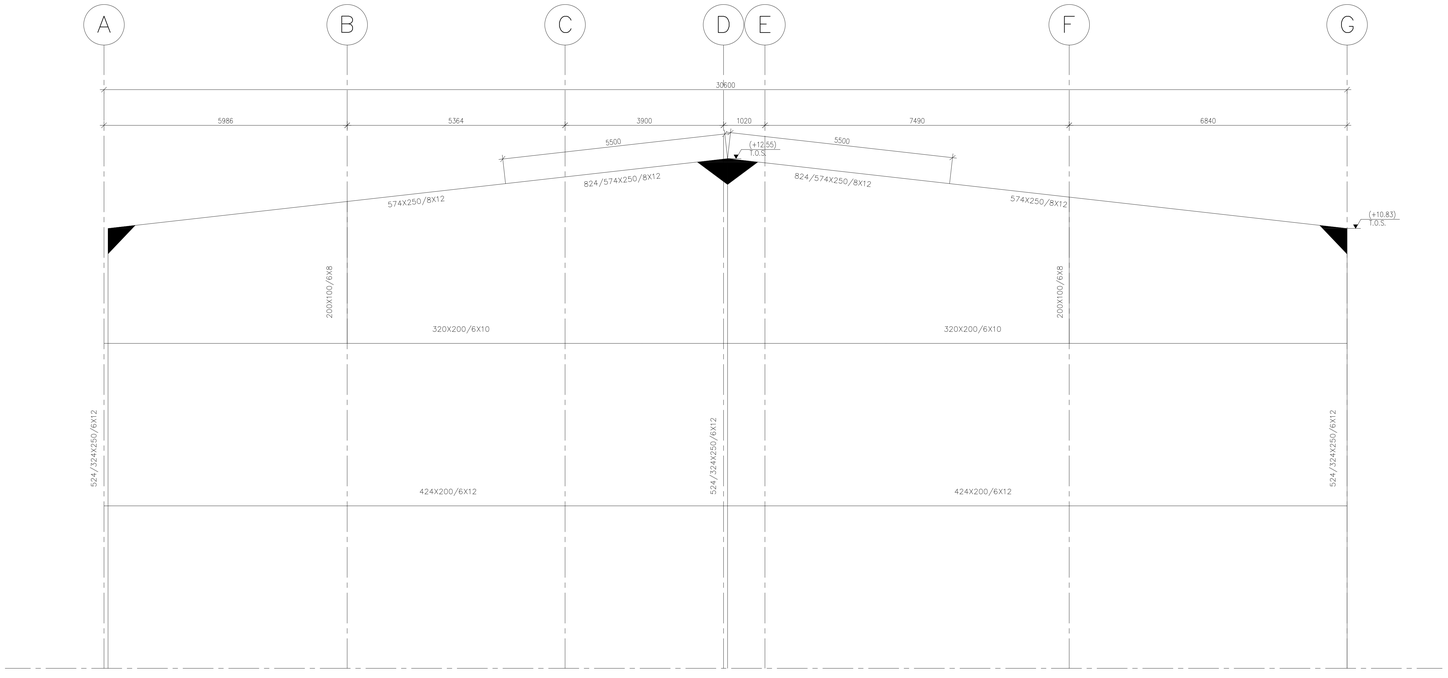

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UNDP NatPharm Access to Affordable Quality Medicines

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PROJECT TITLE

ZIMBABWE (MUTARE) MEDICAL WAREHOUSE PROJECT

DRAWING TITLE

FRAMING ELEVATION @ AXES 15&16

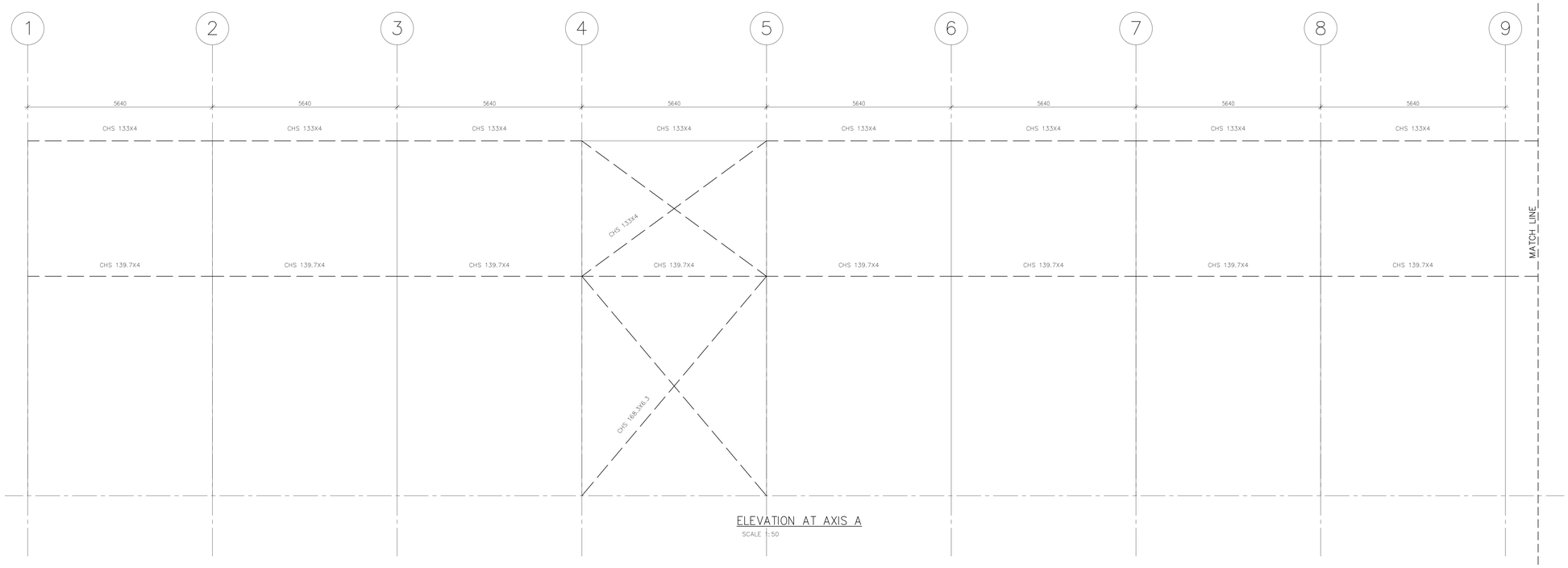
PROJECT NO. Z2016

SCALE: 1:50

DRAWING NO. Z2016-100-SDE-0004-1

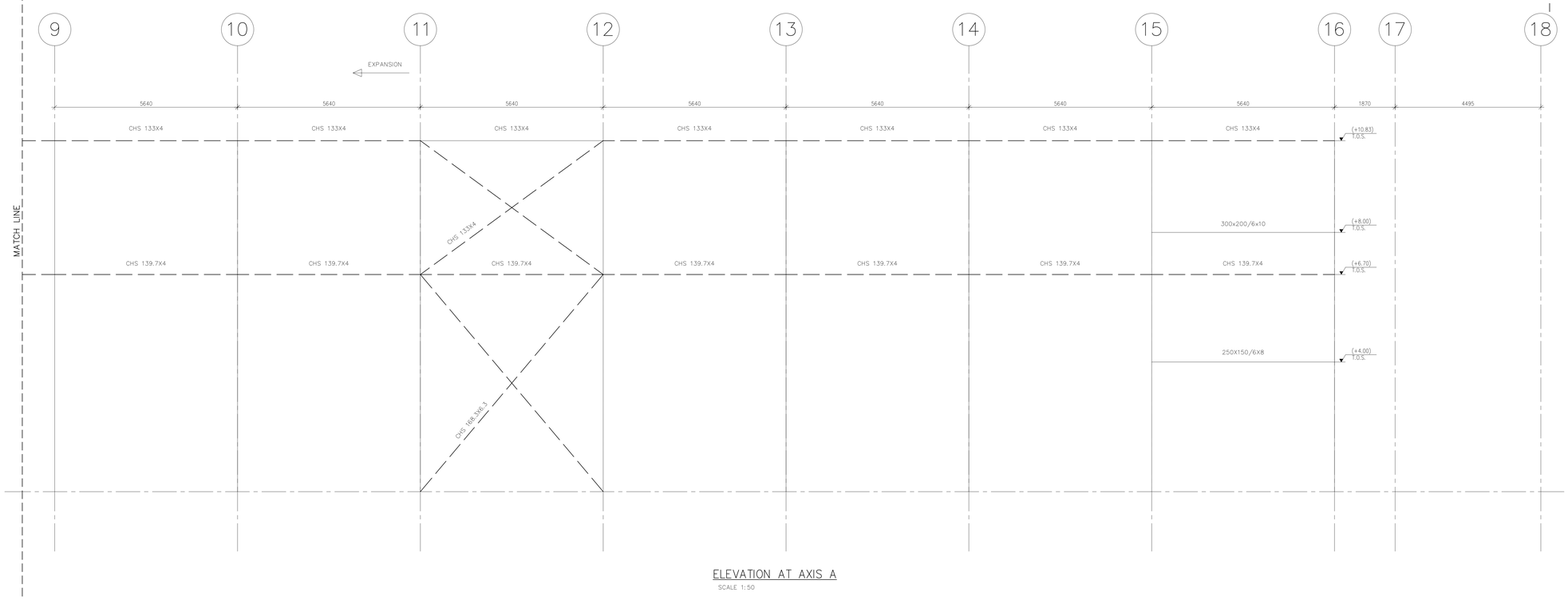
PROJECT NUMBER | BUILDING NO. | DOC. DESCRIPTION | DOC. NUMBER | REV.

GUIDE DRAWING ONLY



ELEVATION AT AXIS A

SCALE 1:50



ELEVATION AT AXIS A

SCALE 1:50

INDEX	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
R1	16-07-20	ISSUED FOR TENDER	A.RAHMANY	A.SAID	M.HELMY
0	30-06-20	ISSUED FOR APPROVAL	A.RAHMANY	A.SAID	M.HELMY

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PROJECT TITLE

ZIMBABWE (MUTARE) MEDICAL WAREHOUSE PROJECT

DRAWING TITLE

SECTION @ AXIS A

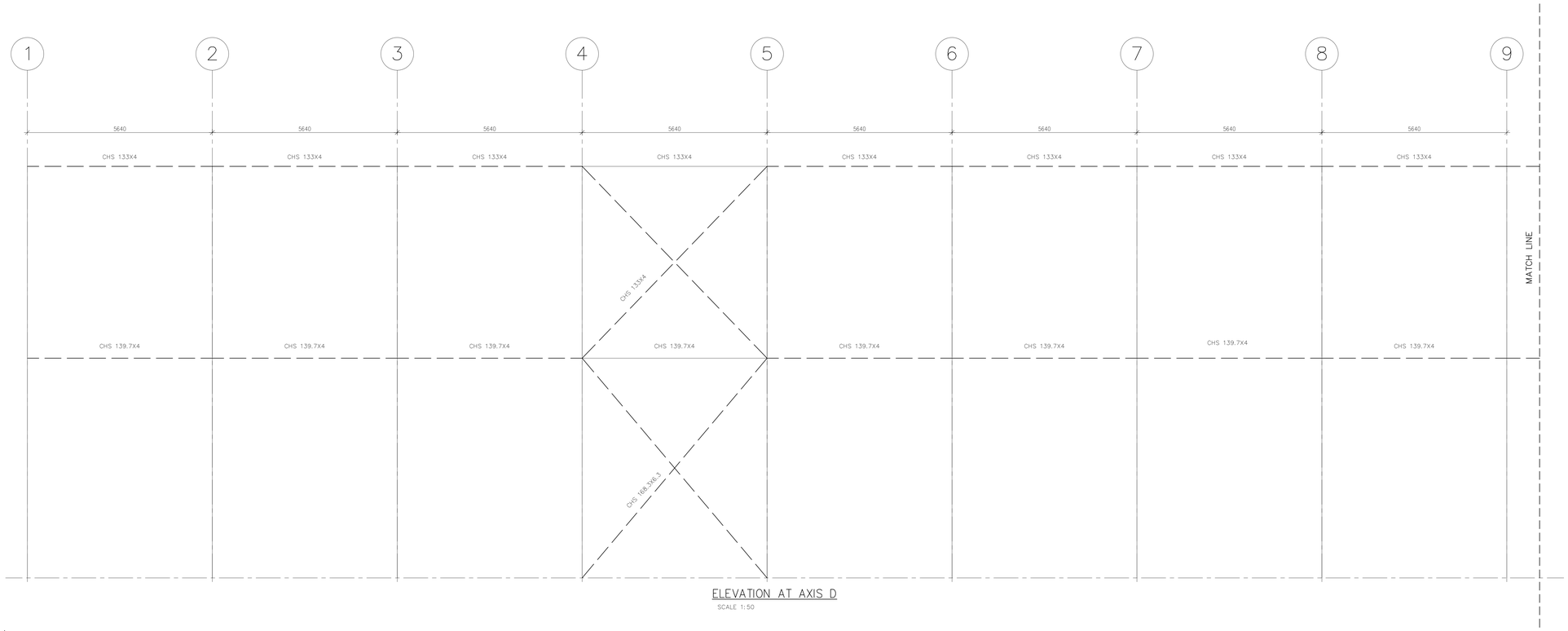
PROJECT NO. Z2016

SCALE: 1:50

DRAWING NO. Z2016-100-SDE-005-1

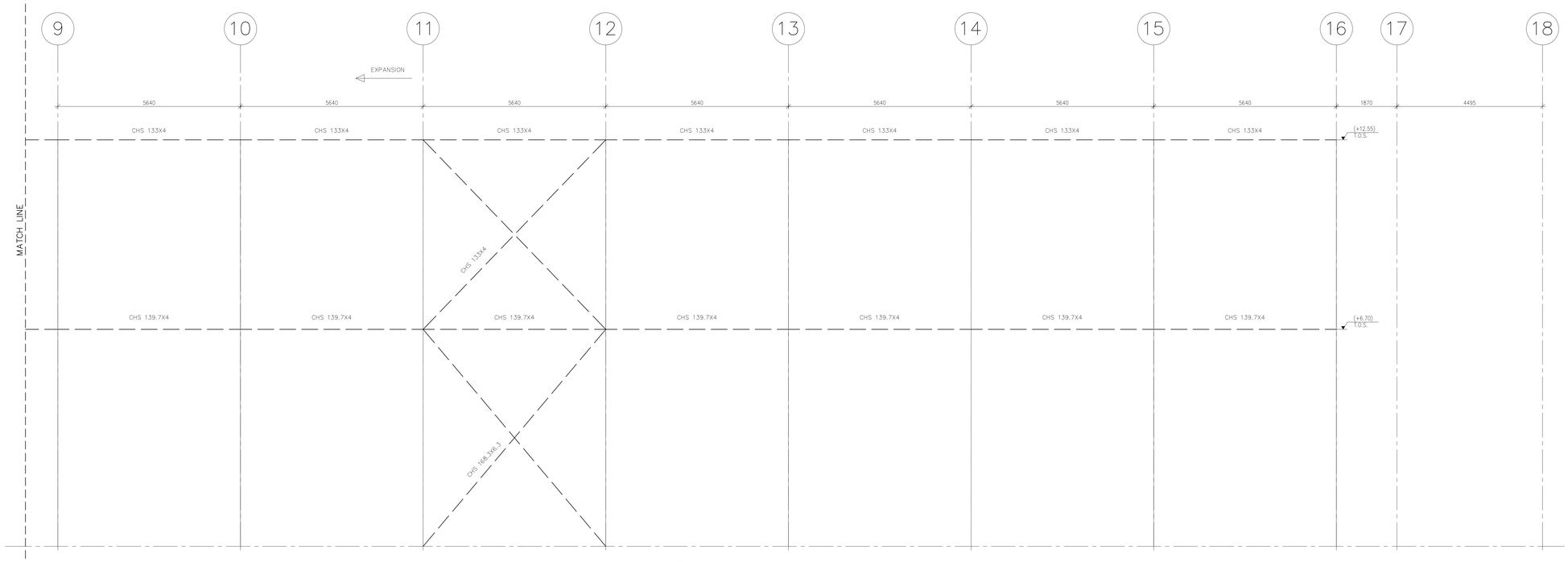
PROJECT NUMBER — BUILDING NO. — DOC. DESCRIPTION — DOC. NUMBER — REV.

GUIDE DRAWING ONLY



ELEVATION AT AXIS D

SCALE 1:50



ELEVATION AT AXIS D

SCALE 1:50

INDEX	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
R1	16-07-20	ISSUED FOR TENDER	A.RAHMANY	A.SAID	M.HELMY
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PROJECT TITLE

ZIMBABWE (MUTARE) MEDICAL WAREHOUSE PROJECT

DRAWING TITLE

SECTION @ AXIS D

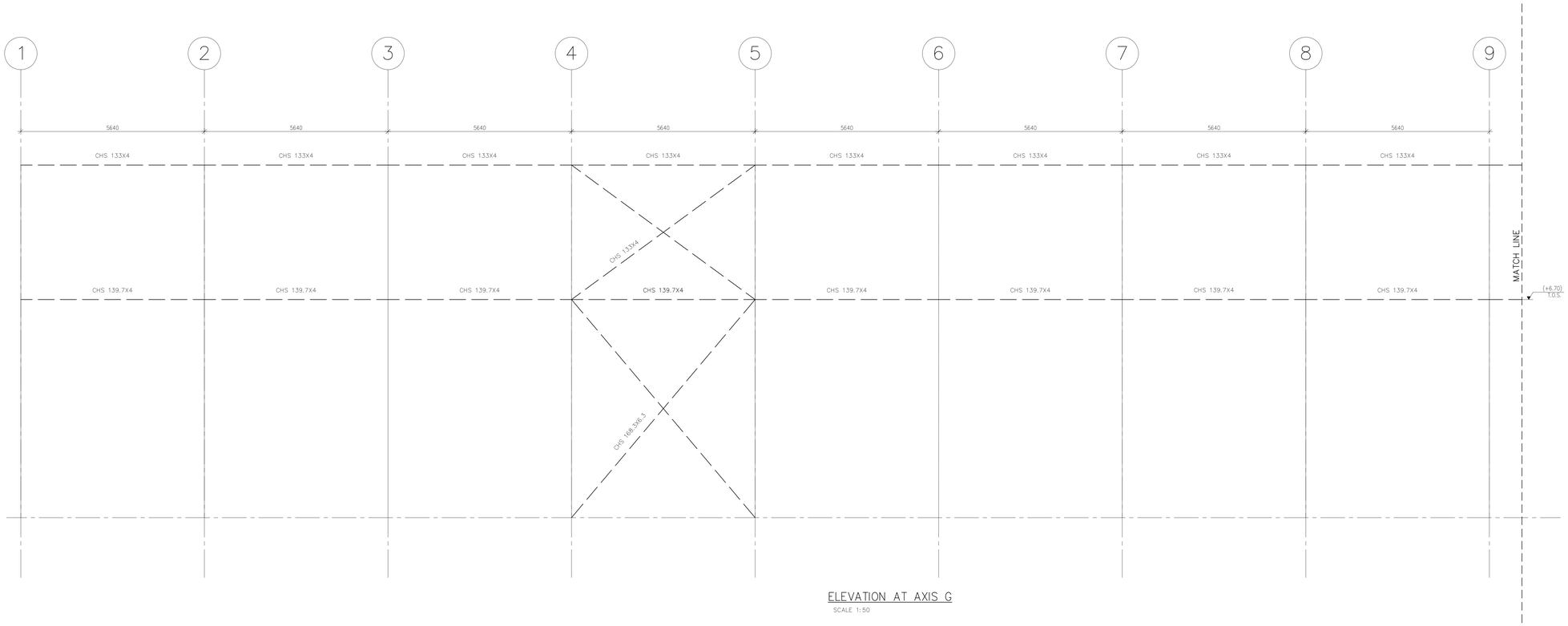
PROJECT NO. Z2016

SCALE: 1:50

DRAWING NO. Z2016-100-SDE-006-1

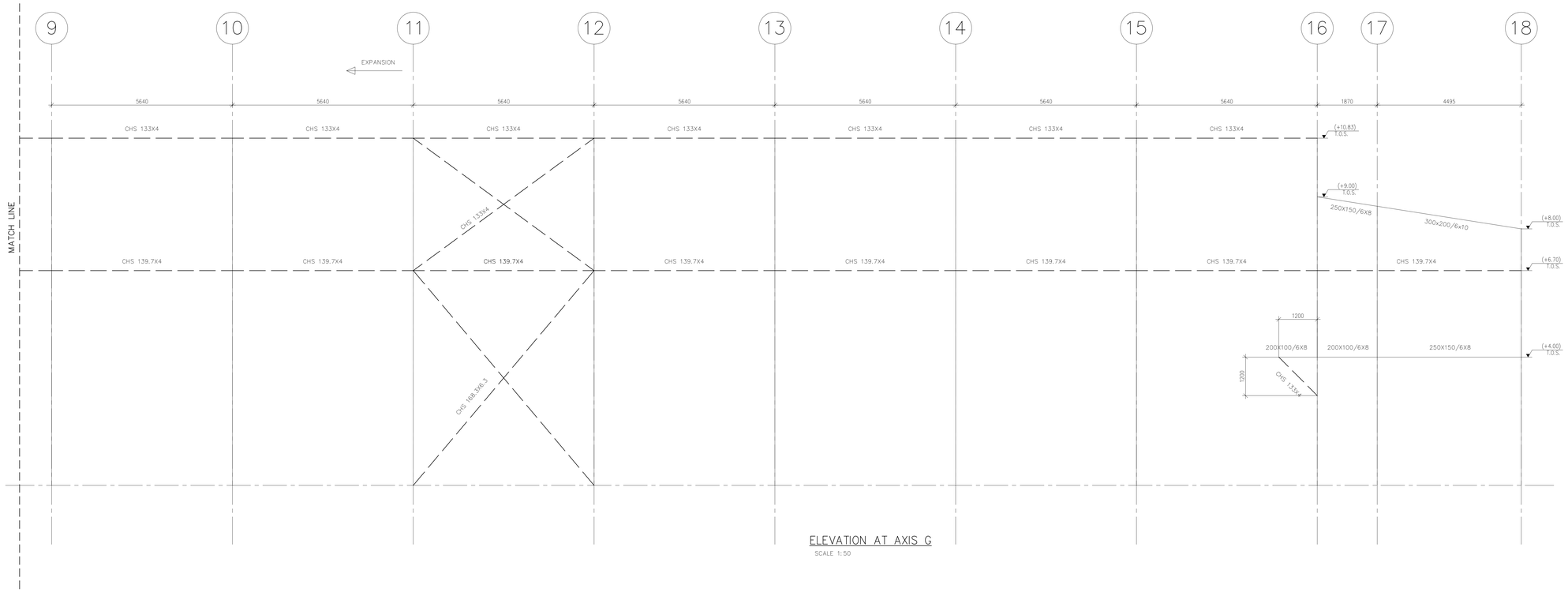
PROJECT NUMBER | BUILDING NO. | DOC. DESCRIPTION | DOC. NUMBER | REV.

GUIDE DRAWING ONLY



ELEVATION AT AXIS G

SCALE 1:50



ELEVATION AT AXIS G

SCALE 1:50

NO.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY
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0	30-06-20	ISSUED FOR APPROVAL	A.RAHMANY	A.SAID	M.HELMY

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PROJECT TITLE

ZIMBABWE (MUTARE) MEDICAL WAREHOUSE PROJECT

DRAWING TITLE

SECTION @ AXIS G

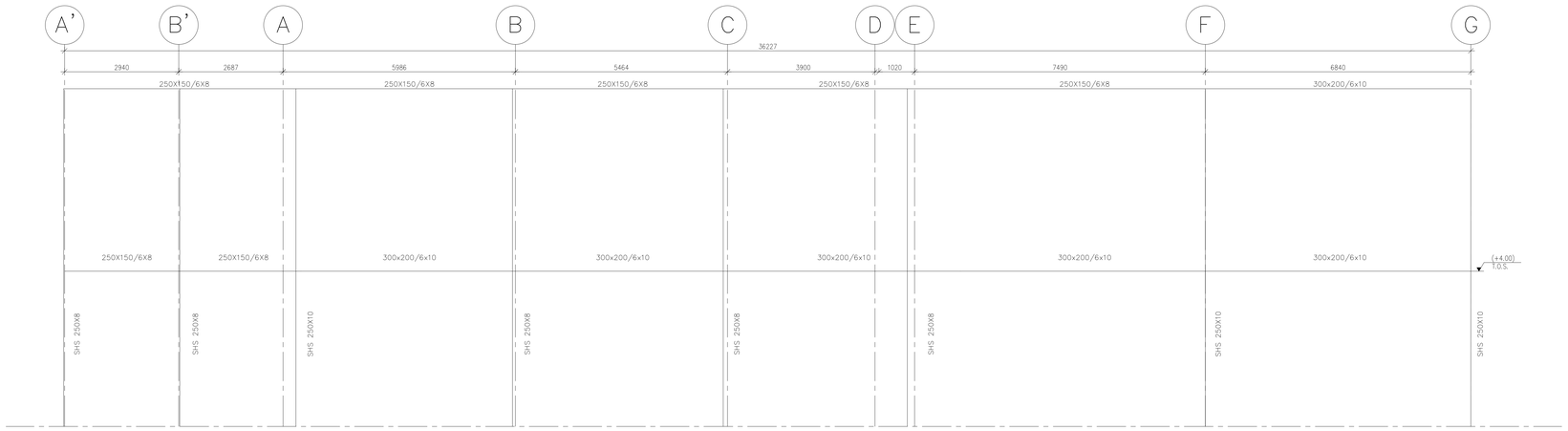
PROJECT NO. Z2016

SCALE: 1:50

DRAWING NO. Z2016-100-SDE-007-1

PROJECT NUMBER — BUILDING NO. — DOC. DESCRIPTION — DOC. NUMBER — REV.

GUIDE DRAWING ONLY



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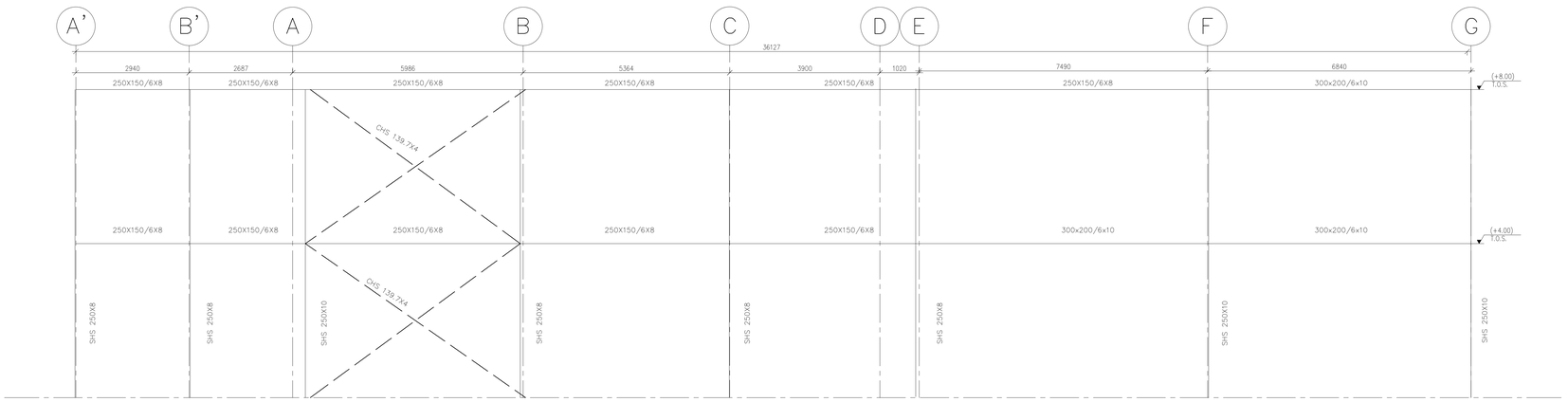
SCALE 1:50



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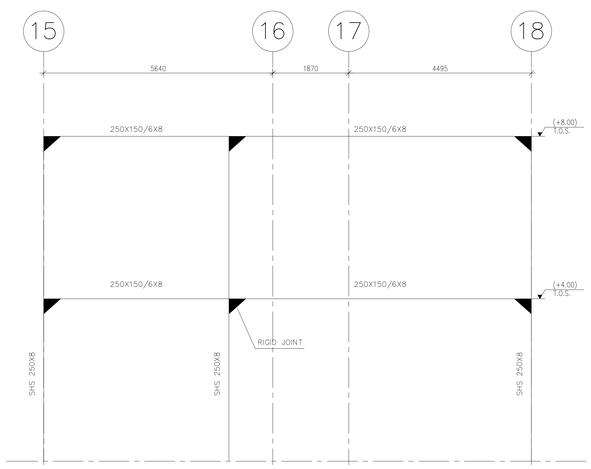

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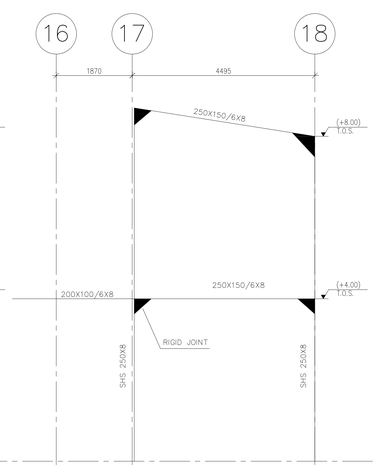

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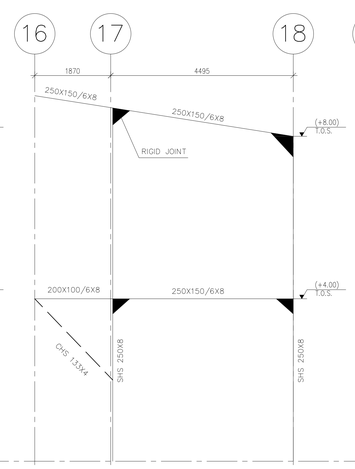

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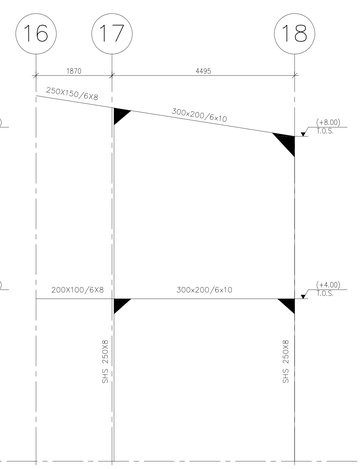

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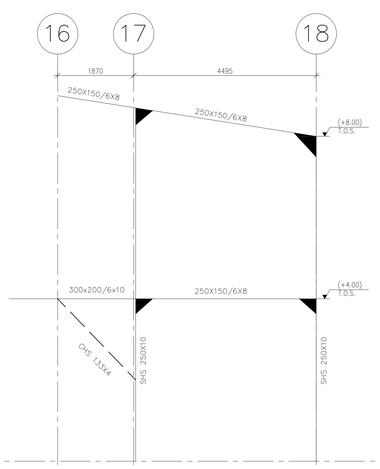
SCALE 1:50



FRAME AT AXIS (F)
SCALE 1:50

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PROJECT TITLE
ZIMBABWE (MUTARE) MEDICAL WAREHOUSE PROJECT

DRAWING TITLE
SECTIONS

PROJECT NO. Z2016
SCALE: 1:50

DRAWING NO. Z2016-100-SDE-008-1
PROJECT NUMBER | BUILDING NO. | DOC. DESCRIPTION | DOC. NUMBER | REV.