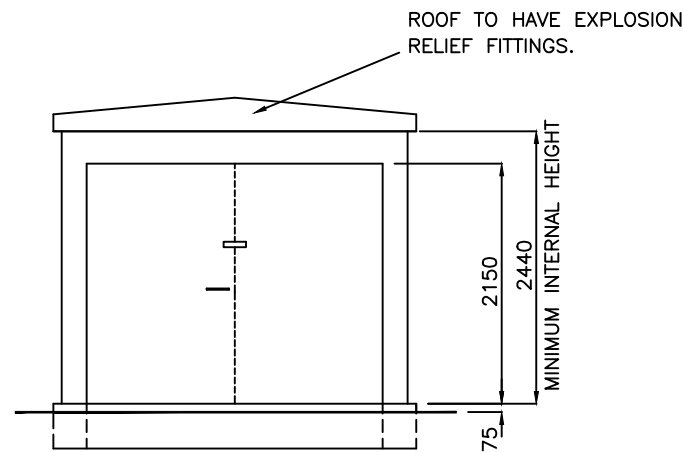
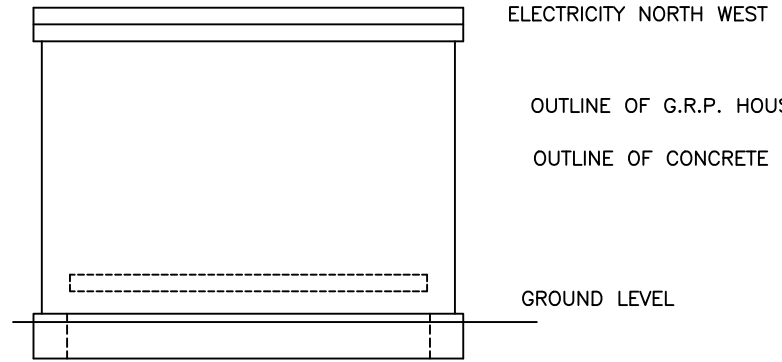
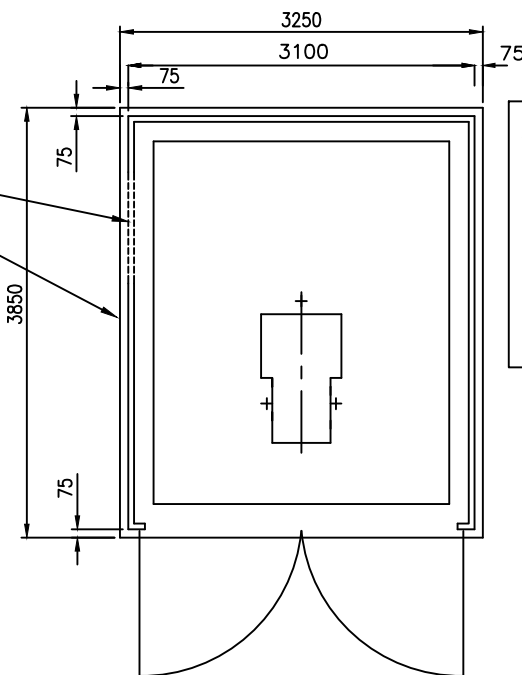




FRONT ELEVATION



SIDE ELEVATION



PLAN

GENERAL SPECIFICATION FOR GRP HOUSING ENCLOSURE

1. SUPPLIED/PURCHASED FROM NOMINATED SUPPLIER, UNDER FRAMEWORK AGREEMENT.
2. DETAILS INCLUDING DOOR LOCKING SPECIFICATION ALL AS IN ES 301.
3. LOWER LEVEL VENTILATION MUST BE APPROVED BY ELECTRICITY NORTH WEST LIMITED & EQUIVALENT TO TOTAL AIR FLOW OF 0.75Metres² (FOR DETAILED SPECIFICATION SEE ENGINEERING SPECIFICATION 301)

NOTES:

CONCRETE FOR PLINTH AND RING BEAM TO BE 1:2:4 MIX OF ORDINARY PORTLAND CEMENT
CONCRETE 35N/mm² (28 DAY STRENGTH).
20mm AGGREGATE SHALL BE PLACED & COMPACTED WITHIN ADEQUATE FORMWORK TO ENSURE THAT THE TOP SURFACES ARE TRUE TO PLANE WITH FLOOR TO HAVE STEEL FLOAT FINISH TO CLOSE TOLERANCE OF +/-3mm IN 3m.
NO DRILLING TO TAKE PLACE WITHIN 28 DAYS OF CASTING.
NO PERCUSSION DRILLS TO BE USED UNLESS ROTARY DRILLS.
DO NOT OVER-TIGHTEN BOLTS.
TYPICAL MAX WEIGHT OF PLANT = 1500Kg.
PLINTH SHALL HAVE TYPICAL MIN DEPTH OF 1000mm. HOWEVER, THE PLINTH MUST BE SUITABLE WITH RESPECT TO GROUND CONDITIONS AND LOADING. THE LEVEL OF THE RING BEAM TO BE AGREED ON SITE WITH THE ENGINEER IN CHARGE PRIOR TO CONSTRUCTING SHUTTERING.

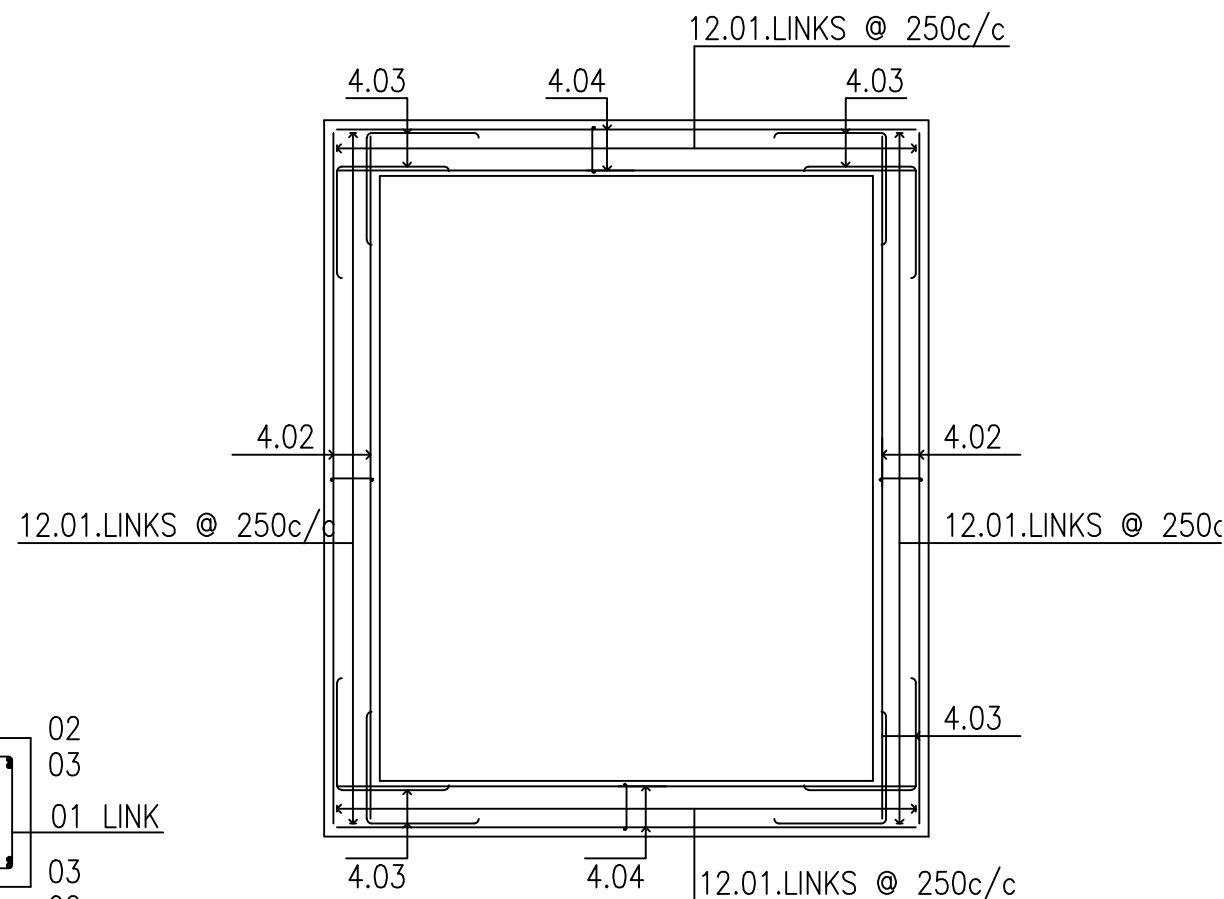
COMPOUND TO BE BACK-FILLED AFTER INSTALLATION OF CABLES WITH SAND AND 75mm TOP LAYER OF 14-20mm LIMESTONE CHIPPINGS.

GRP HOUSING TO BE FROM ELECTRICITY NORTH WEST APPROVED SUPPLIER. DOORS TO HAVE HASP & STAPLE TO ACCEPT ELECTRICITY NORTH WEST PADLOCKS. LEFT HAND DOOR TO BE FIRST OPENING LEAF

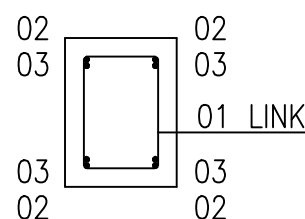
FOUNDATIONS TO BE TAKEN DOWN TO GROUND THAT IS SUFFICIENTLY FIRM TO PROVIDE PHYSICAL SUPPORT TO THE STRUCTURE. SITE PHOTO'S TO BE TAKEN INDICATING EVIDENCE OF FOUNDATION DEPTH WHERE INCREASED DIG IS GREATER THAN 400MM. THESE WILL BE PROVIDED FOR PAYMENT AND AUDIT PURPOSES.

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ELECTRICITY NORTH WEST ELECTRICAL SPECIFICATION REF. 400 D 5 AND ALL ASSOCIATED WORKS MUST COMPLY WITH THIS INFORMATION AND DETAIL IN FULL.

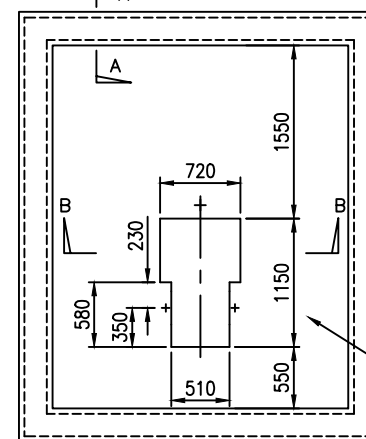
THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ELECTRICITY NORTH WEST ES 301 & ES 352 AND ALL ASSOCIATED WORKS MUST COMPLY WITH THIS INFORMATION AND DETAIL IN FULL.



PLAN ON REINFORCED BEAM

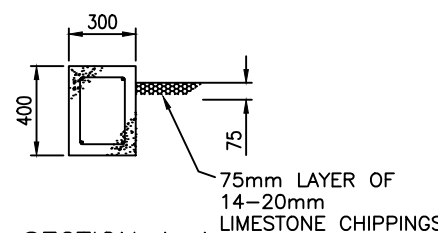


TYPICAL CROSS SECTION

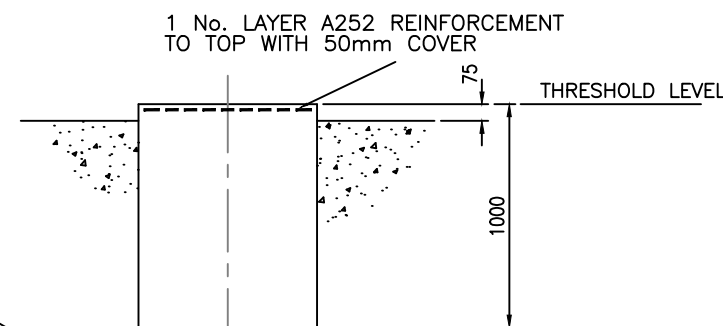


FOUNDATION PLAN

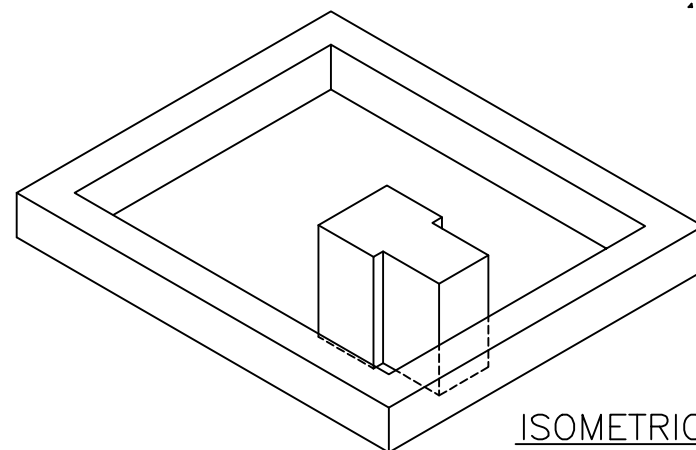
CABLE AREA TO BE BACKFILLED WITH SAND, WELL CONSOLIDATED WITH 75mm LAYER OF 14-20mm LIMESTONE CHIPPINGS. ALL TO BE COMPLETED AFTER INSTALLATION OF ALL CABLES.



SECTION A-A



SECTION B-B



ISOMETRIC FOUNDATION VIEW

BENDING SCHEDULE							
BAR NAME	BAR MK	TYPE & SIZE	LENGTH OF BAR	A	B	SHAPE CODE	TOTAL No
LINK	01	T6	1200	300	200	60	48
STRAIGHT	02	T10	3666			20	8
STRAIGHT	04	T10	3110			20	8
CORNER	03	T10	1200	600		37	16

revisions

A	EQUIPMENT MOVED TO GIVE 15m ³	08/12/03
B	ELECTRICAL NOTES ADDED	10/03/04
C	LAYER REINFORCEMENT TO PLINTH, NOTE CHANGES	
	SWITCHGEAR BASE 750mm DEEP	16/01/06
D	ELECTRICAL NOTES ADDED	30/10/06
E	REVISED	28/12/06
F	REVISED	12/06/09
G	REVISED	28/04/10

PR1 PROPOSED REVISION TO BE APPROVED Aug 14

Electricity north west

drawn

approved G.H.SMITH date 14/11/03

CONSTRUCTION DETAILS FOR STANDARD G.R.P.

SUBSTATION WITH MERLIN GERIN RN2C WITH MU2 METERING UNIT

scale DO NOT SCALE

site

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scheme number

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drawing number sheet

ES352-A2-025/02 PR