

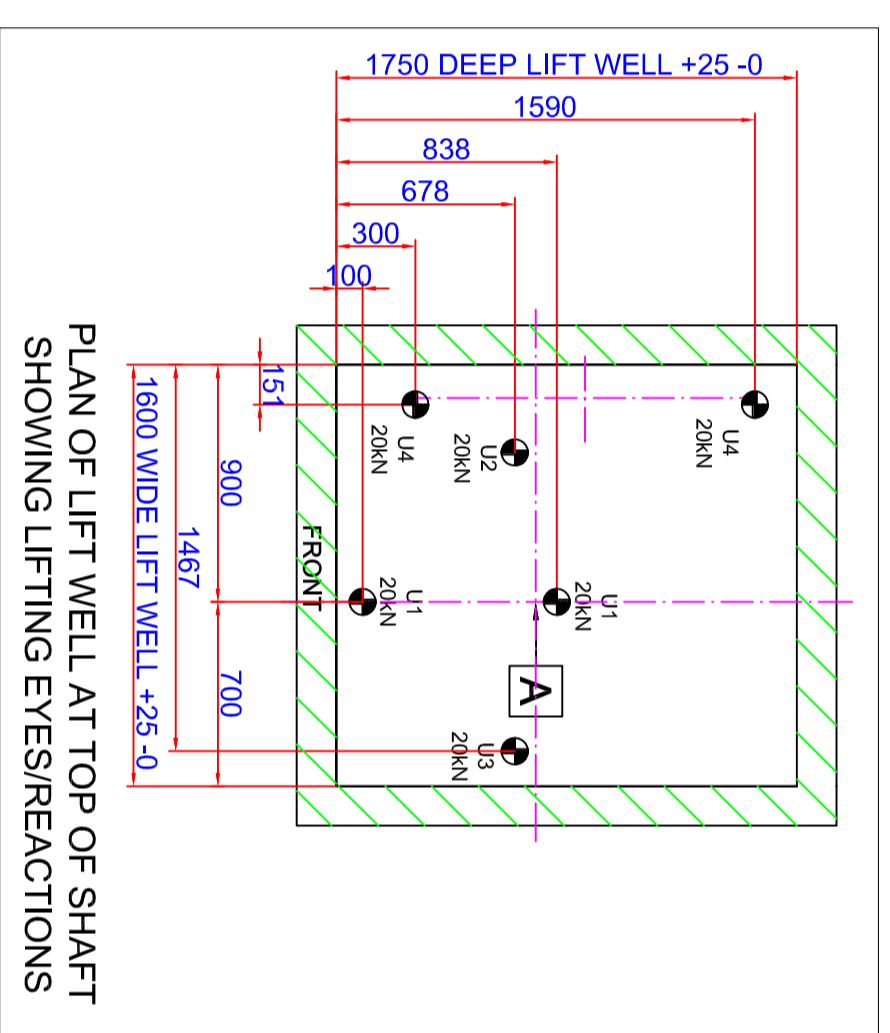
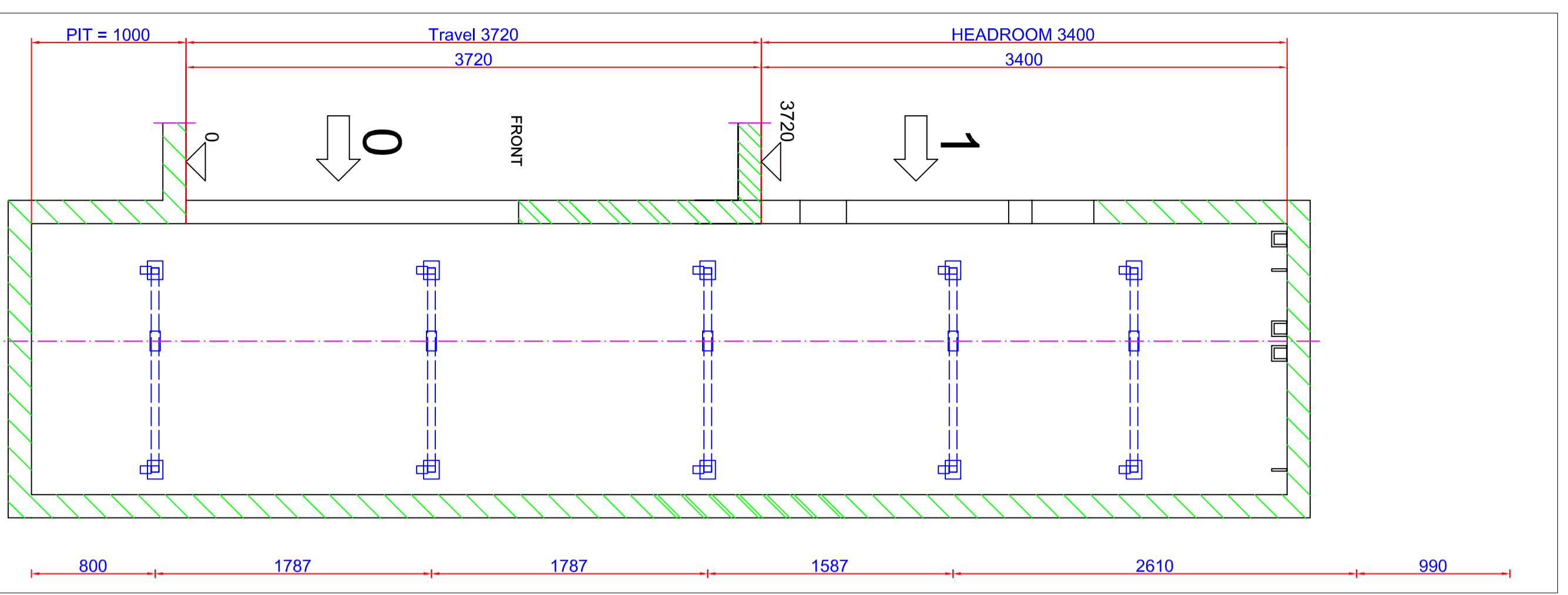
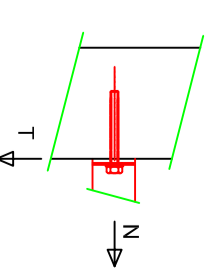
SHAFT CONSTRUCTION ALL 'BY BUILDER'
THE LIFT SHAFT IS TO BE BUILT FROM (MINIMUM) 140mm THICK C35 REINFORCED CONCRETE OR (MINIMUM) 140mm THICK HIGH DENSITY NON-AERATED BLOCKS WITH A MINIMUM STRENGTH OF 10 N/mm². THE SHAFT MUST BE ABLE TO WITHSTAND THE APPLIED LOADS AS SHOWN ON THIS DRAWING.
AT THE TOP OF THE LIFT SHAFT LIFTING EYES ARE REQUIRED FOR INSTALLATION REFER TO DETAILS ON THIS DRAWING FOR VARIOUS METHODS OF FIXING

SUSPENDED METHOD	LOCATION	SHL (kN)	LIFT PIT BASE REACTIONS (kN)	GUIDE BRACKET FIXINGS REACTIONS (kN)
MATERIAL LIFTING	U1	20	P11 15500	N 1500
CAR GUIDE RAILS AND COUNTERWEIGHT RAILS	U2	20	P12 60000	T 2000
	U3	20	P13 23500	
	U4	20	P17 12000	
	U5	20		

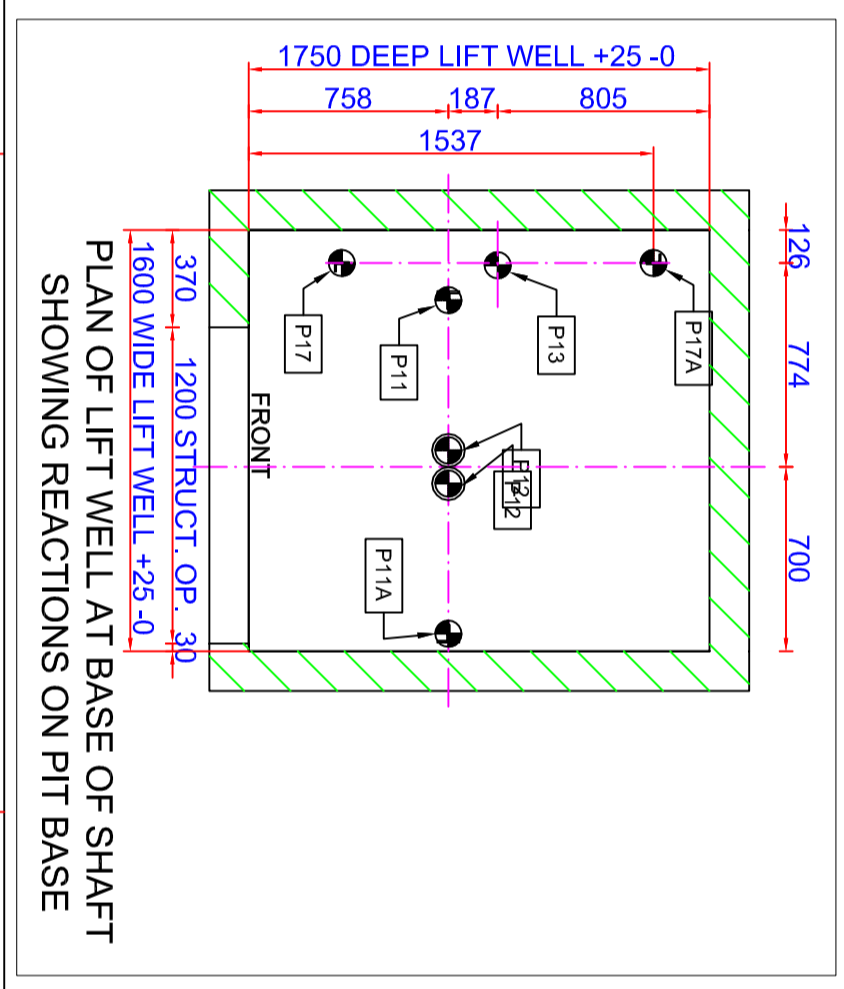
ATTENDANCES AND MAKING GOOD - ALL 'BY BUILDER'

PROCEDURE FOR SAFE SITE ACCESS TO BE CONFIRMED WITH LOCAL EIA OFFICE BUILDER TO MAKE AVAILABLE DRY, LOCKED AND PROTECTED STORAGE SPACE ADJACENT TO THE LIFT SHAFT.
BUILDER TO ESTABLISH A PERMANENT DATUM LINE ON THE INSIDE OF THE WELL AT ALL LEVELS FROM WHICH THE LIFT ENGINEER CAN ESTABLISH THE FINISHED FLOOR LEVELS

DRILL & FIX
HILTI TYPE ANCHORS TO BE USED FOR DRILLING AND FIXING OF LIFT EQUIPMENT. WORK TO BE CARRIED OUT BY EIA ENGINEERS.
USE HILTI M12 HSA x 100 LONG.
IF BLOCKWORK IS USED THE DISTANCE FROM EDGE OF THE BLOCK SHOULD BE 100mm MINIMUM.



NOTE! LIFTING EYES OR LIFTING BEAMS WITH LOOPS ARE AVAILABLE FROM: CONSTRUCTION FIXING SYSTEMS
TEL: 01491 576466 - FAX 01491 578166 - EMAIL sales@cfs-fixings.co.uk



VALIDITY OF LAYOUT TO BE VERIFIED AT TIME OF ORDER
DO NOT SCALE THIS DRAWING

FOR AND ON BEHALF OF EXPRESS LIFTS ALLIANCE
DATE: _____

EXPRESS
Lifts Alliance
Group

ATRIUM
Model: -COMM/WEIGHT= M03AF

805-mk-1EN-TL0300RPMU5-THEFT

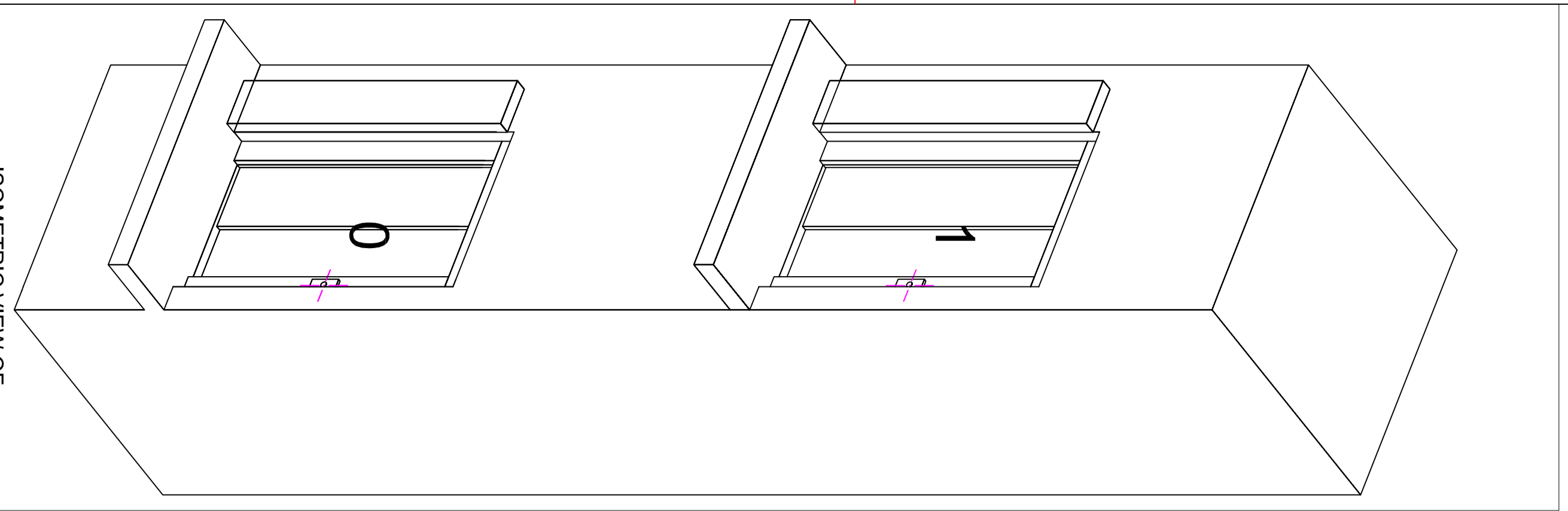
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NAME : ZS Medzladonocká
ADDRESS : parc. č. 1564/02, 3, 4, 5, 5b, 15633/7, 8, 9, 10, 24, 95, k. ú. Ružinov, obec Bratislava - Ružinov, SO 01 - Záhradná štvrť

CUSTOMER
NAME : Vypracoval: Ing. Martin Tíkl Ing. Peter Šivák, PhD.
ADDRESS : ZS Medzladonocká

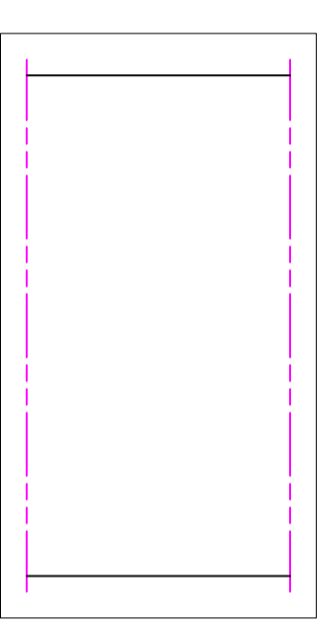
NEG. No. : G3NG189X/01101
Cont. No. :
DUTY :
PERSONS : 8
SPEED : .1 m/s
DB VERSION : 12.5
TP VERSION : 2.6

BUILDERS WORK DRAWING - SHAFT

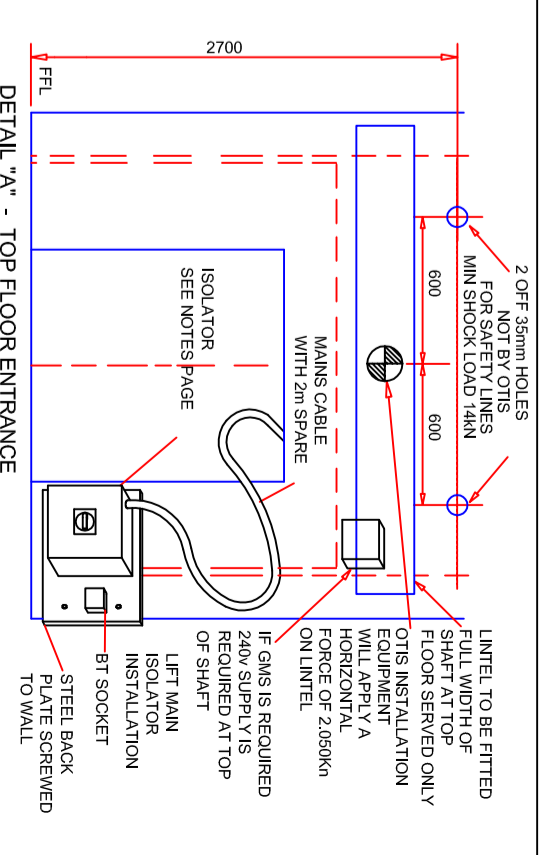
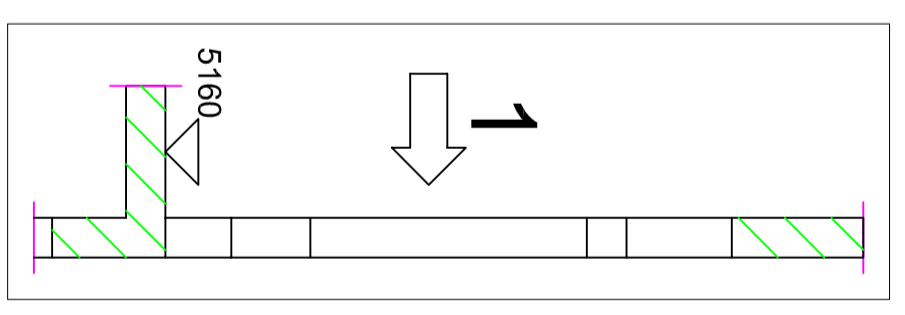
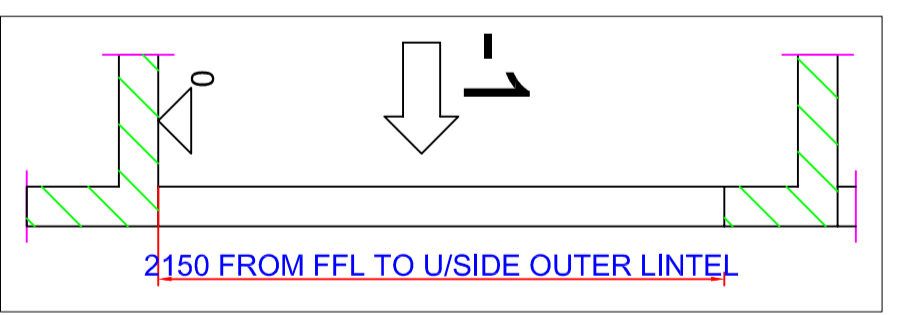
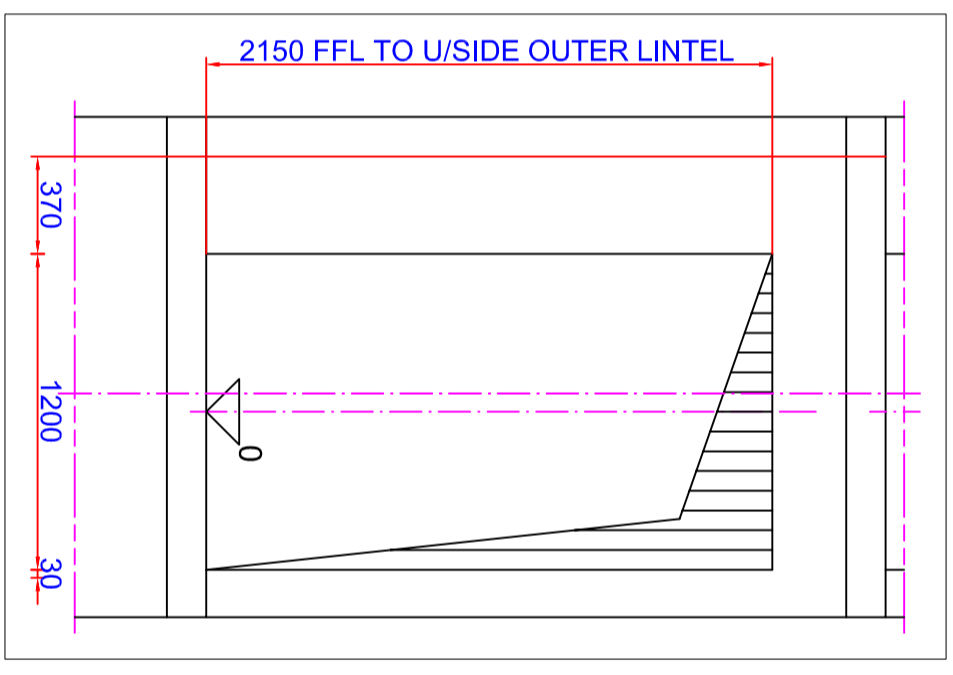
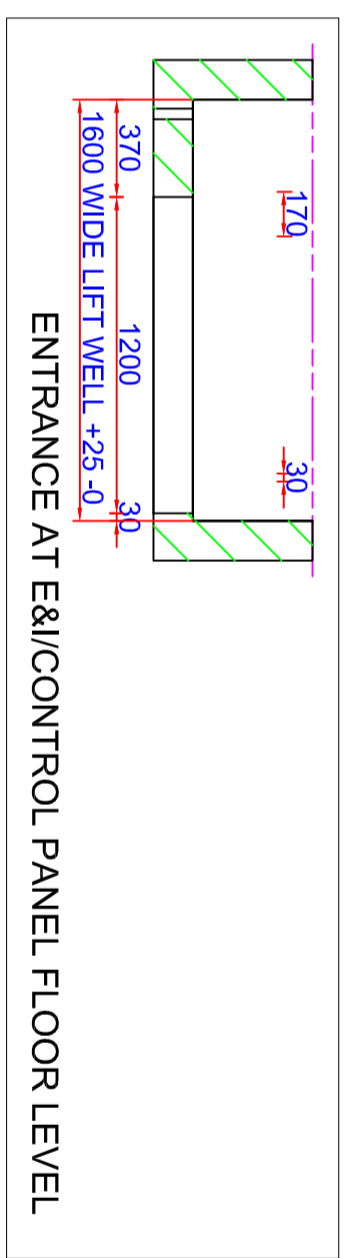
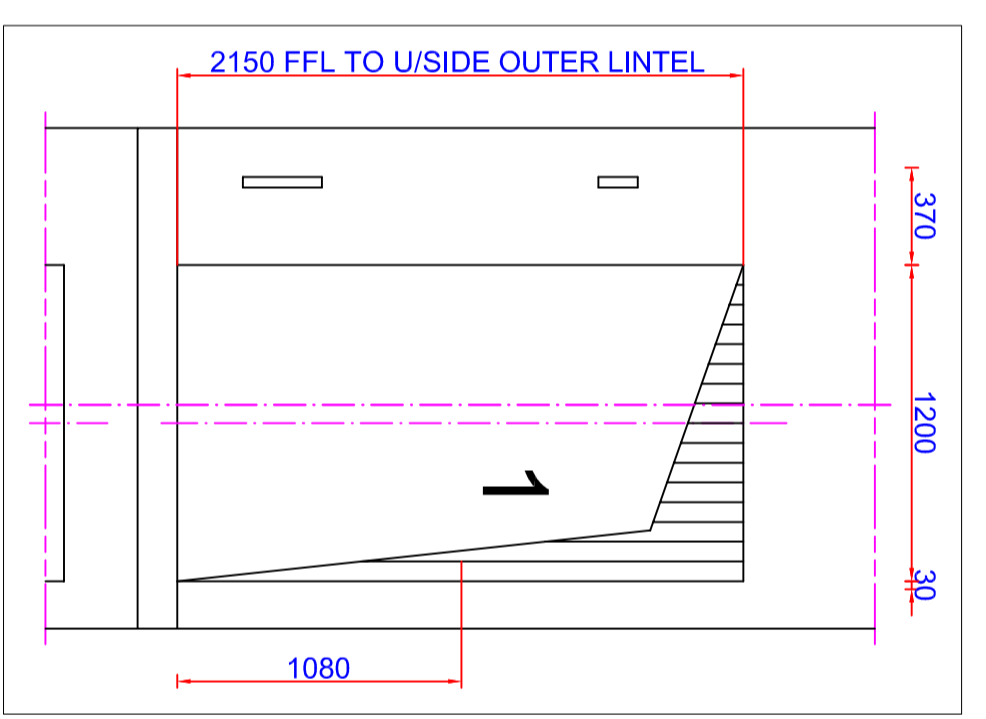
Drawn By	Drawing Number	Sheet No.
Checked By	G3NG189X/01101	1-4
Print Date		REVISION
Contact No.		



ISOMETRIC VIEW OF FRONT OF LIFT SHAFT

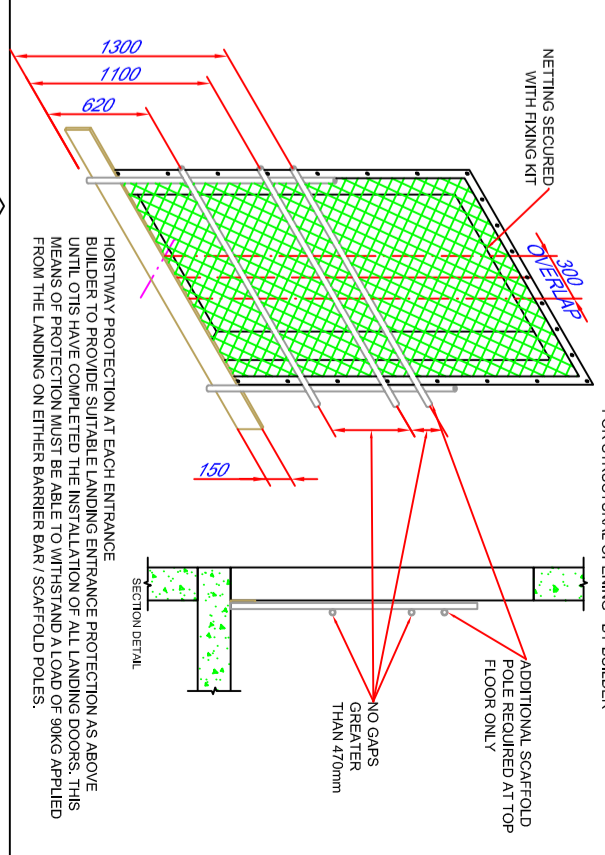


TYPICAL ENTRANCE DETAIL AT OTHER FLOOR LEVELS

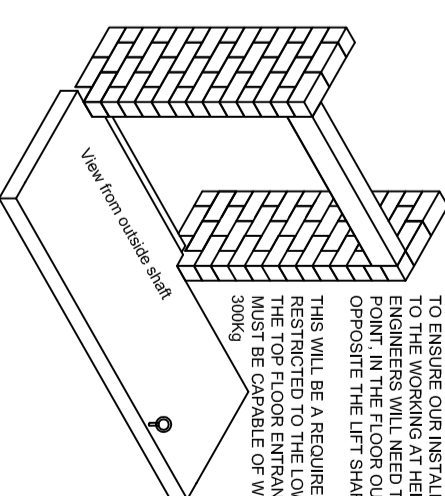


1. THE MAINS CABLE TO THE ISOLATOR SHALL BE PROVIDED WITH 2m OF SPARE CABLE, TO ENABLE IT TO BE RELOCATED WITHIN THE LIFT SHAFT, AFTER THE LIFT IS INSTALLED. THE ISOLATOR SHALL BE TEMPORARILY INSTALLED ON A STEEL BACK PLATE AS SHOWN.
2. THE FINAL POSITION OF THE ISOLATOR IN THE SHAFT, MUST NOT BE HIGHER THAN 1.2 METRES ABOVE FFL. THIS WILL ENSURE IT IS ACCESSIBLE FROM THE TOP OF THE CAR, WHEN THE CAR IS ON THE MAINTENANCE 'UP' TEST LIMIT.
3. THE STANDARD BT SOCKET REFERRED TO IN NOTE 2 (GENERAL NOTES) SHOULD ALSO BE FASTENED TO THIS PLATE.

ENTRANCE PROTECTION
FOR STRUCTURAL OPENING - BY BUILDER

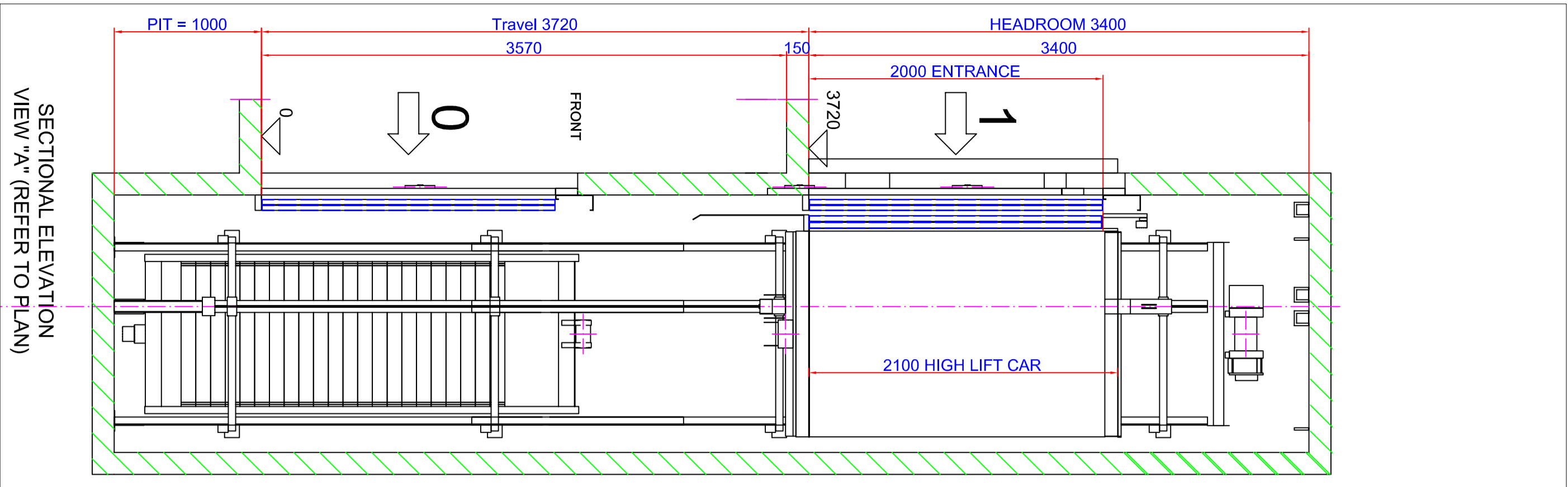


TO ENSURE OUR INSTALLATION PROCESS CONCERNS THE SAFETY OF ALL PERSONS INVOLVED, ENGINEERS WILL NEED TO DRILL A 19MM ANCHORAGE POINT IN THE FLOOR OUTSIDE, OR IN THE WALL OPPOSITE THE LIFT SHAFT ENTRANCES. THIS WILL BE A REQUIREMENT AT BUT NOT RESTRICTED TO THE LOWEST NEXT TO LOWEST AND THE TOP FLOOR ENTRANCES. THIS ANCHORAGE POINT MUST BE CAPABLE OF WITHSTANDING A LOAD OF 300kg

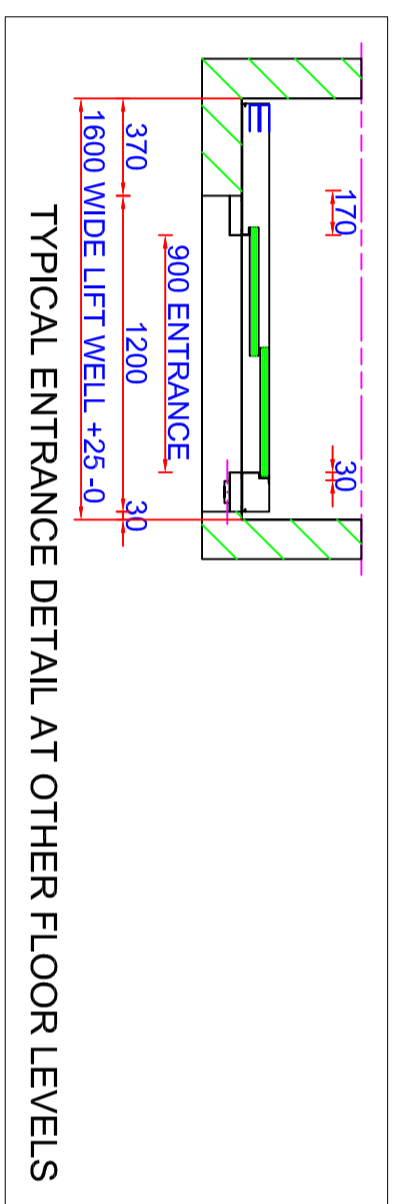
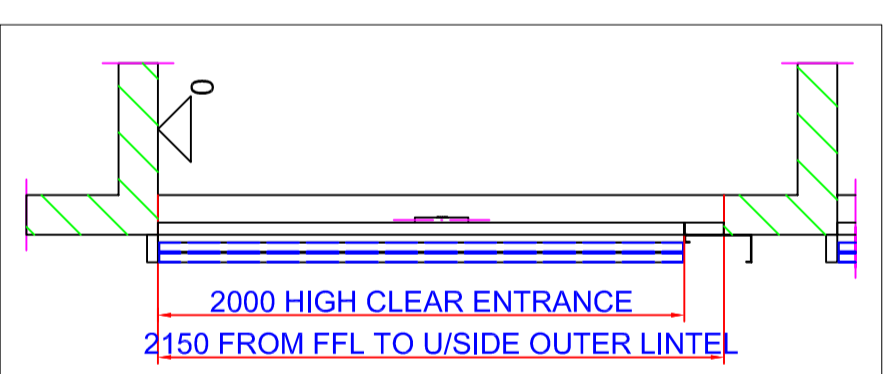
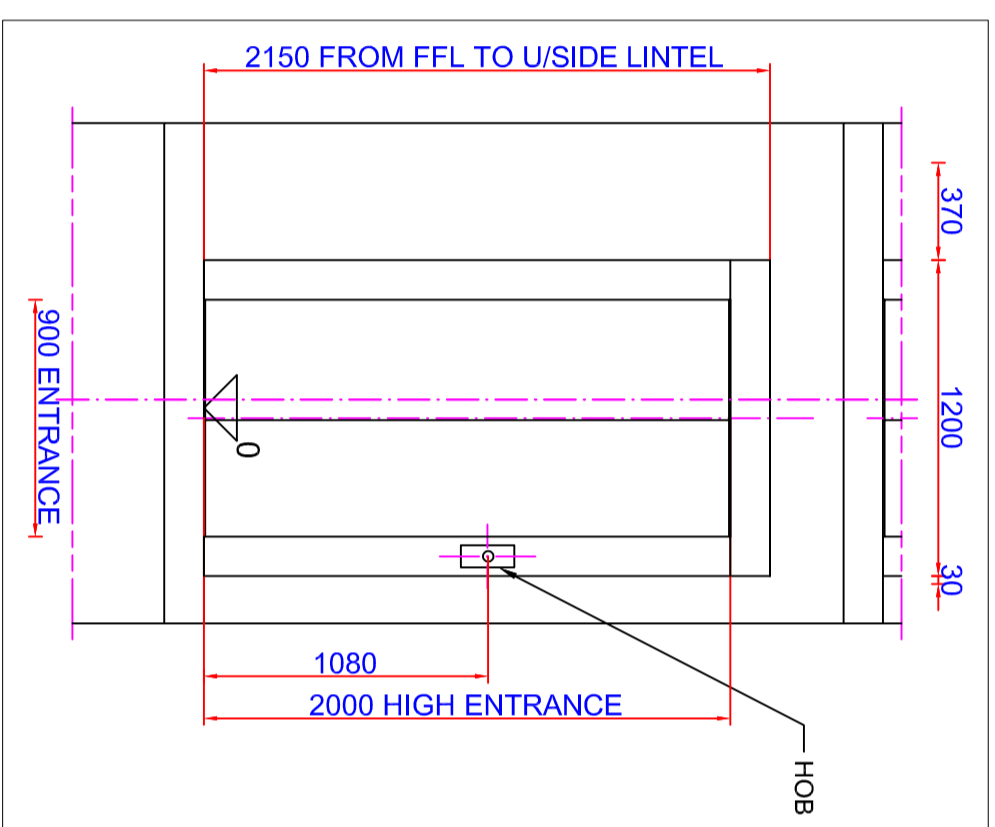
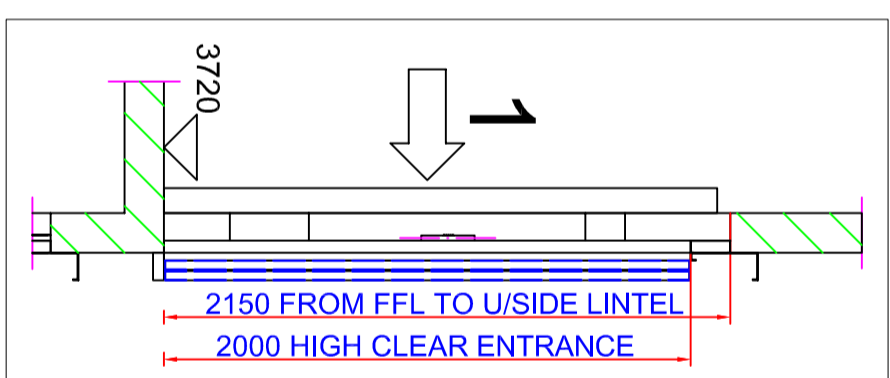
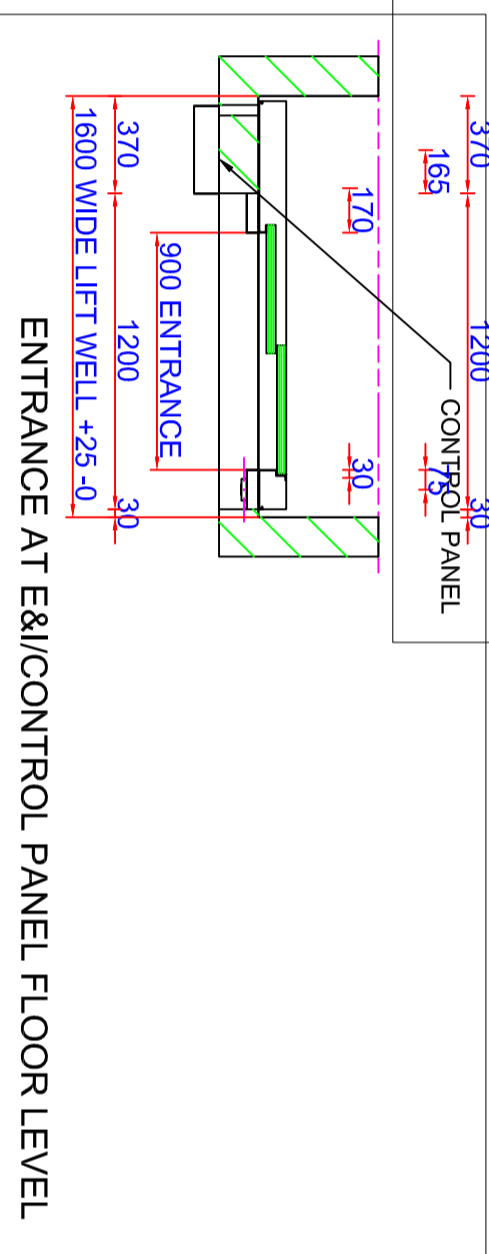
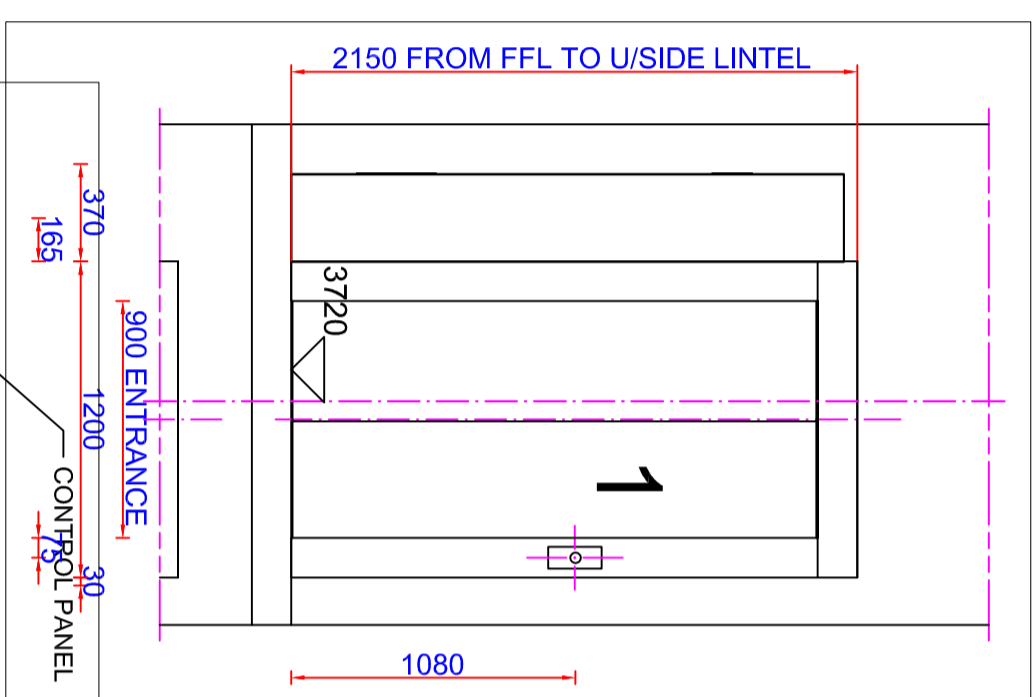


VALIDITY OF LAYOUT TO BE VERIFIED AT TIME OF ORDER
DO NOT SCALE THIS DRAWING

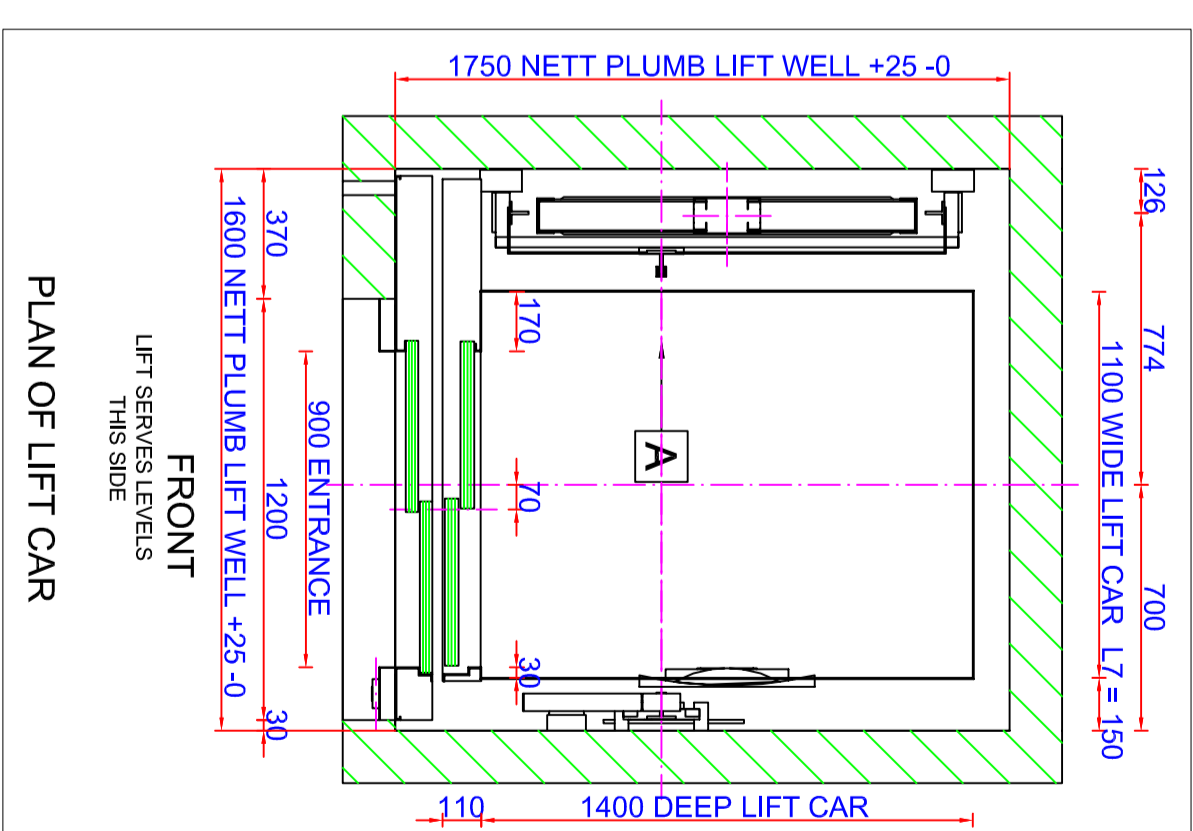
<p>Model: -COUNTERWEIGHT-HOUSE</p>			
<p>PROJECT : ZS Medzilaborcká</p>		<p>NEG. No. : G3NG189X01/01</p>	
<p>NAME : ZS Medzilaborcká</p>		<p>Cont. No. :</p>	
<p>ADDRESS : parc. č. 1564/023,4,5,56, 15638/7,8,9,10,94,95, k.ú. Ružinov, obec Bratislava - Ružinov, SO/0-Zakladná stola</p>			
<p>CUSTOMER : Vypracoval: Ing. Martin TIK Ing. Peter Šivon, PhD.</p>		<p>NAME : ZS Medzilaborcká</p>	
<p>ADDRESS : ZS Medzilaborcká</p>		<p>DUTY : 630 Kg</p>	
<p>PERSONS : 8</p>		<p>SPEED : 1 m/s</p>	
<p>DP VERSION LD2016</p>		<p>DB VERSION 12.5.</p>	
<p>IFP VERSION 2.8</p>		<p>IFP VERSION 2.8</p>	
<p>Title: BUILDERS WORK DRAWING - ENTRANCE</p>			
<p>Drawn By : _____</p>	<p>Checked By : _____</p>	<p>Project No. : G3NG189X01/01</p>	<p>Sheet No. : 24</p>
<p>Contract No. : _____</p>	<p>Revision : _____</p>	<p>Date : _____</p>	<p>REVISION : _____</p>



SECTIONAL ELEVATION VIEW "A" (REFER TO PLAN)

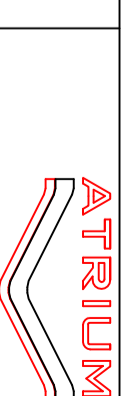


TYPICAL ENTRANCE DETAIL AT OTHER FLOOR LEVELS



PLAN OF LIFT CAR
FRONT
LIFT SERVES LEVELS THIS SIDE

VALIDITY OF LAYOUT TO BE VERIFIED AT TIME OF ORDER
DO NOT SCALE THIS DRAWING



Model: - COUNTERWEIGHT=VCSAF

PROJECT
NAME : ZS Machlabscekd
ADDRESS : parc. 6, 15940/2, 3,4,5,58, 153387,8,9,10,94,95,
K. U. Ruzhkov, obee Bratislava - Ruzhkov
SO 01 - Zakladna škola

CUSTOMER
NAME : Vypracoval: Ing. Martin TKI Ing. Peter Šivoň, PhD.
ADDRESS : ZS Machlabscekd

NEG. No. : G3NG189X0101
Cont. No. :
DUTY : 630 Kg
PERSONS : 8
SPEED : 1 m/s
DIP VERSION LD0106
DIB VERSION 12.5
TIP VERSION 2.6

GENERAL LIFT LAYOUT

Drawn By :
Checked By :
Project Date :
Drawing Number : G3NG189X0101
Sheet No. : 3-4
REVISION : 2.6

1 Electrical Requirements

- Builder will provide a permanent electrical power supply at an early stage as specified below and in our contract. This is required for installation purposes.
- There shall be provided "by others" a 3 phase, earth & neutral 400VAC, 50 Hz, electrical supply cable installed, phased, tested and terminated in a lockable rotary 6 pole unfused isolator Eaton T5B-3-83421/4/SVB. The supply shall have the capacity for the load detailed below. All supply cables should be calculated in accordance with BS7671. The maximum volt drop permitted on the supply cable, due to the lift starting current given in the table below must not exceed 2.5% of nominal voltage measured at the lockable non fused isolator. The supply cable shall enter the lift shaft at the top and be brought out on to the landing adjacent to lift entrance, at the floor where the control panel is located (See layout drawing sheet 2, for location of control panel). The supply cable, to the isolator shall be provided with 2m of spare cable to enable it to be relocated within the lift shaft when the lift is installed. The isolator shall be temporarily installed on a steel back-plate (See layout drawing sheet 2, detail A).
- If a temporary power supply is used at any time to provide a supply to the lift, it must be suitably rated to absorb the Regen power produced by the lift.
- There shall be provided "by others" a temporary 110V AC power supply and lighting for use during the installation of the lift equipment
- ELA will provide single and 3 phase protection within the lift control equipment as stated below. This will provide overload protection of the equipment and supply. ELA will derive the single-phase load from the 3-phase supply. The 3-phase supply cable shall be suitable to carry the currents stated below. Suitable short circuit protection of the supply cable shall be provided "by others". This protection shall provide full discrimination from the ELA overload protection device.

LOAD TYPE	STARTING CURRENT	FULL LOAD CURRENT	OVERLOAD DEVICE	MOTOR
LIFT EQUIPMENT	10.2 Amps	7.5 Amps	16 Amps	3.9 KW
LIGHTING			10 SGL PHASE MCB TYPE "B"	

ELA will provide and install permanent shaft lighting and pit socket in accordance with the requirements of EN81-20

2 Communication services requirements

- There shall be provided "by others" an analogue telephone line installed, tested and terminated in a standard BT socket. This telephone cable shall enter the lift shaft at the top floor below the landing control panel. It shall have a free length of 2m to enable the final position to be determined by the lift installer.
- Note! If using GSM in place of a fixed landline the following is to be provided
- There shall be provided "by others" a 25mm hole at the top of the lift shaft for the GSM antenna (to outside of building or into roof space), to achieve a GSM signal strength of -85dbm (max) or better. GSM is to be fed by a 240v supply "by others" at top of shaft. This must be in place prior to testing of the lift.
- An alarm bell is no longer required by EN81-20 but a two-way means of communication is a legal requirement. To meet this requirement Otis will provide a Remote Elevator Monitoring system (REM).
- For this to operate you are required to have installed a working telephone line described above. This must be in place prior to testing of the lift.

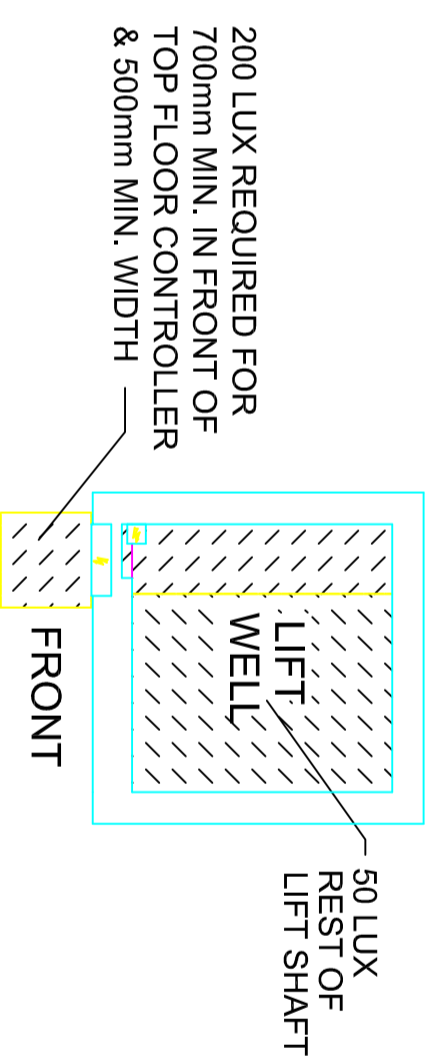
3 Environmental Requirements

There shall be provided "by others" lighting at all landing entrances. This shall be sufficient to ensure a minimum of 50 Lux at floor level, in the vicinity of each landing entrance. In addition, at the landing where the controller is located, there shall be provided by others, lighting to ensure a minimum of 200 Lux, at floor level, in the vicinity of the controller (see sketch)

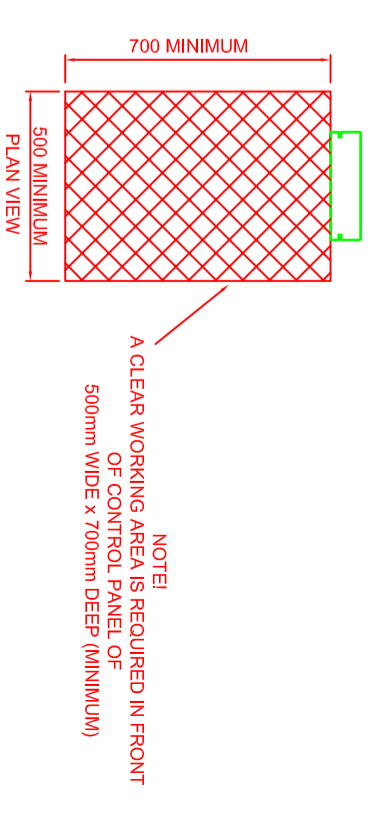
The hoistway temperature is to be maintained between +5°C and +40°C. Heat output from the lift equipment in KJs =

4 General Notes

- Equipment quoted is designed for internal application only. Where equipment is not directly exposed to the elements.
- In accordance with building regulation Part B and lift regulation 1997 it is not permitted to have a lift opening direct into an apartment. It must be possible to access lift landing doors at all times from the landing side with out passing through private premises. This is required for fire and other emergency situations.
- The primary power supply (and secondary power supply when applicable) must have the facility to absorb the regenerative power generated by the lift installation. Maximum regenerative power = KW

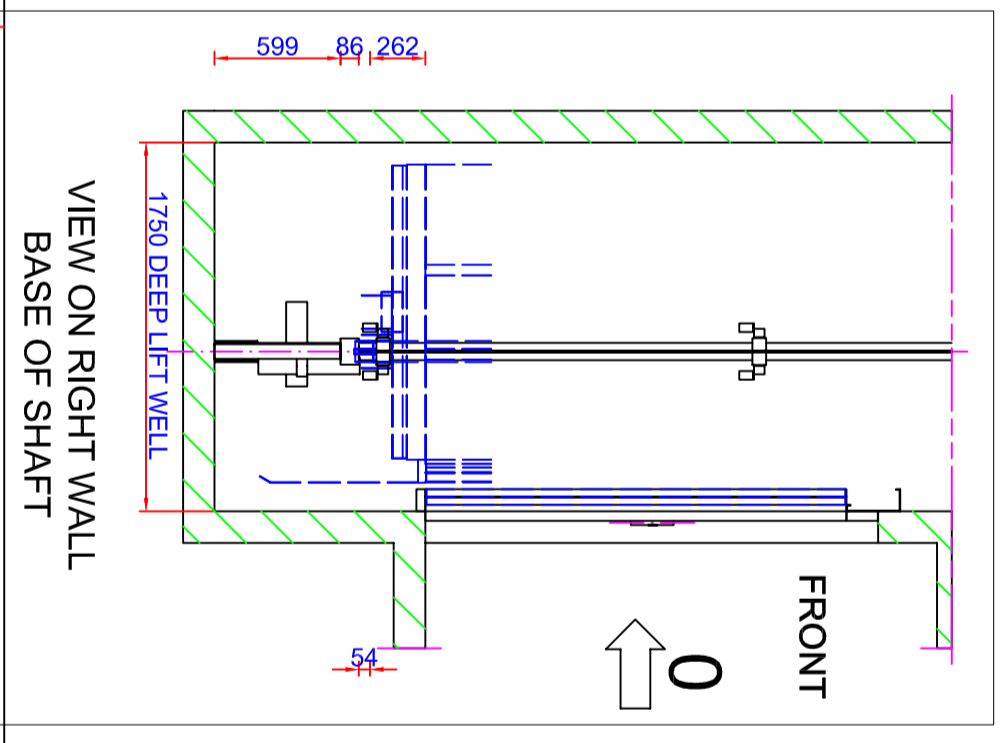
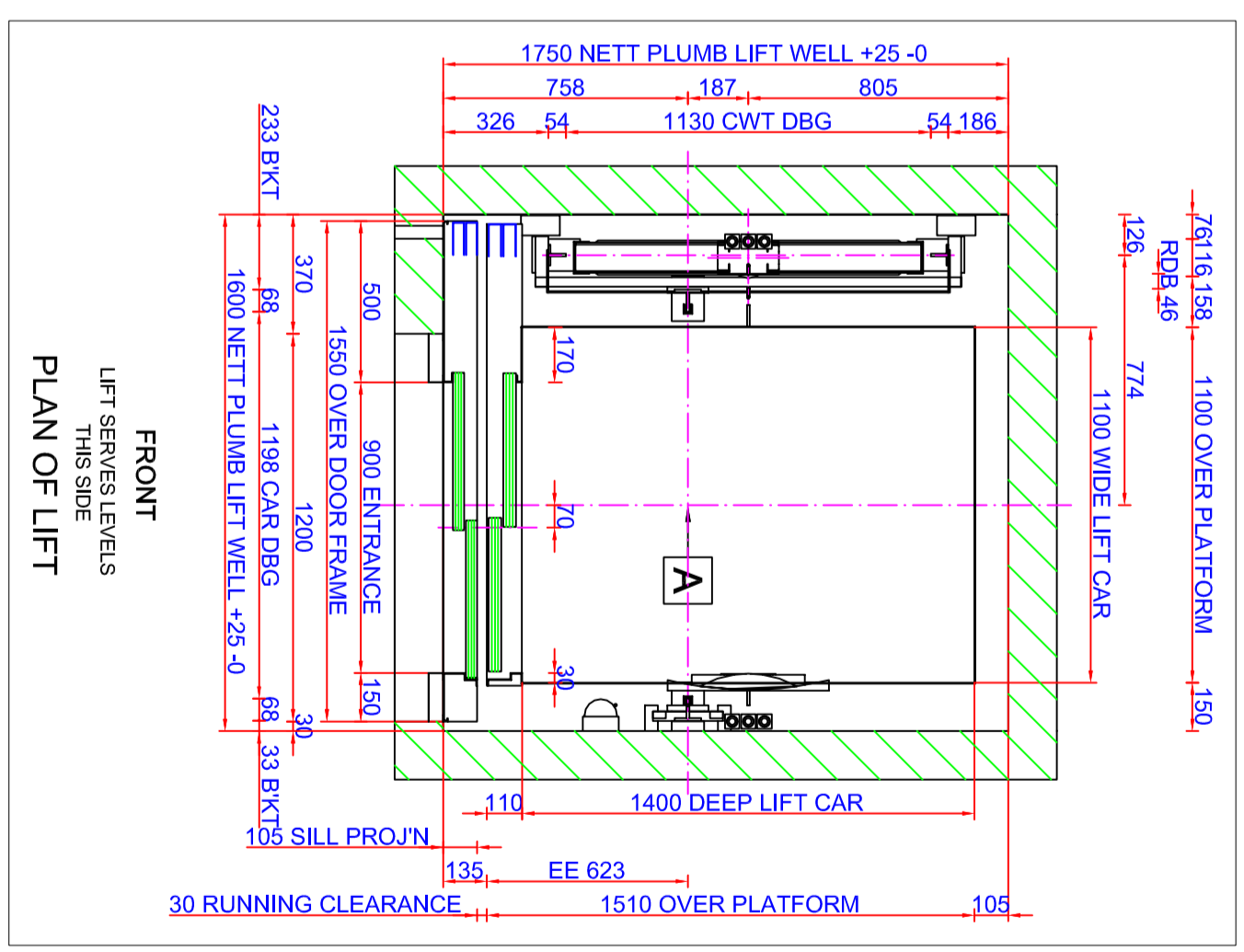
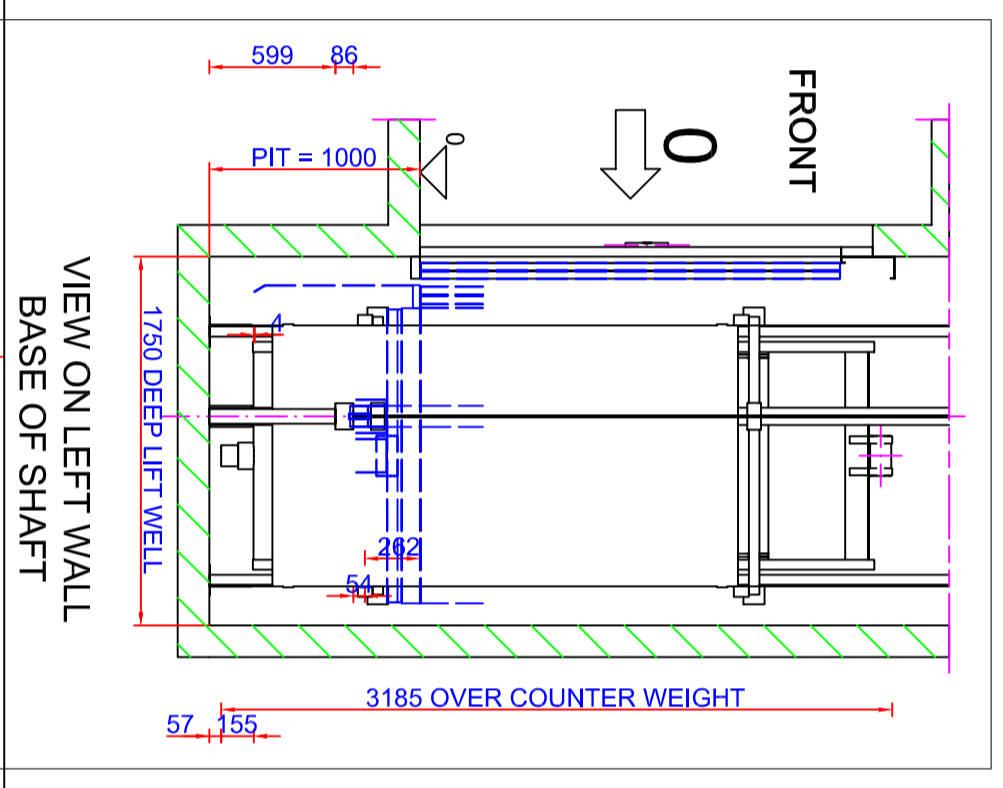
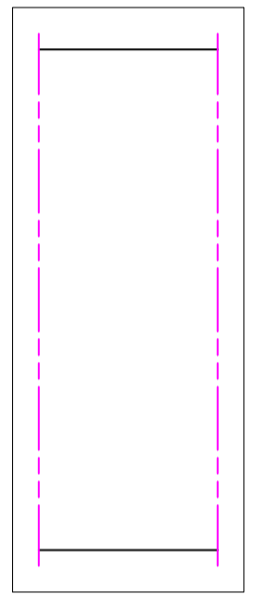
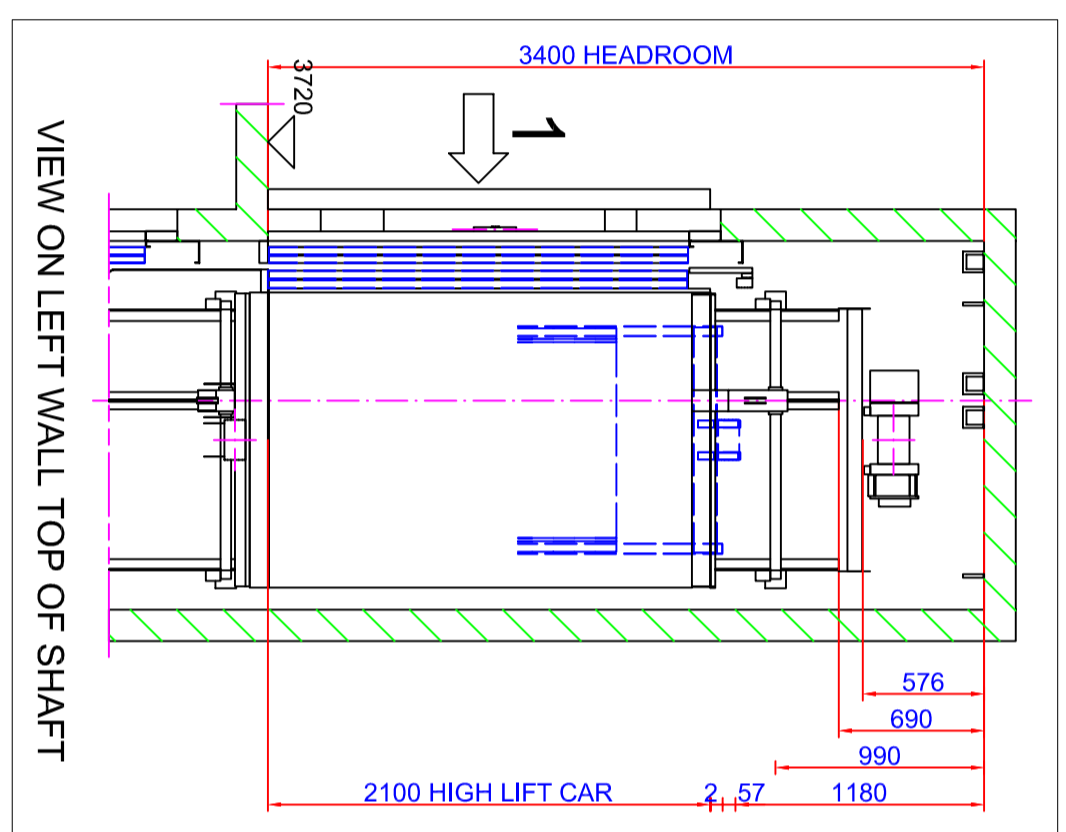
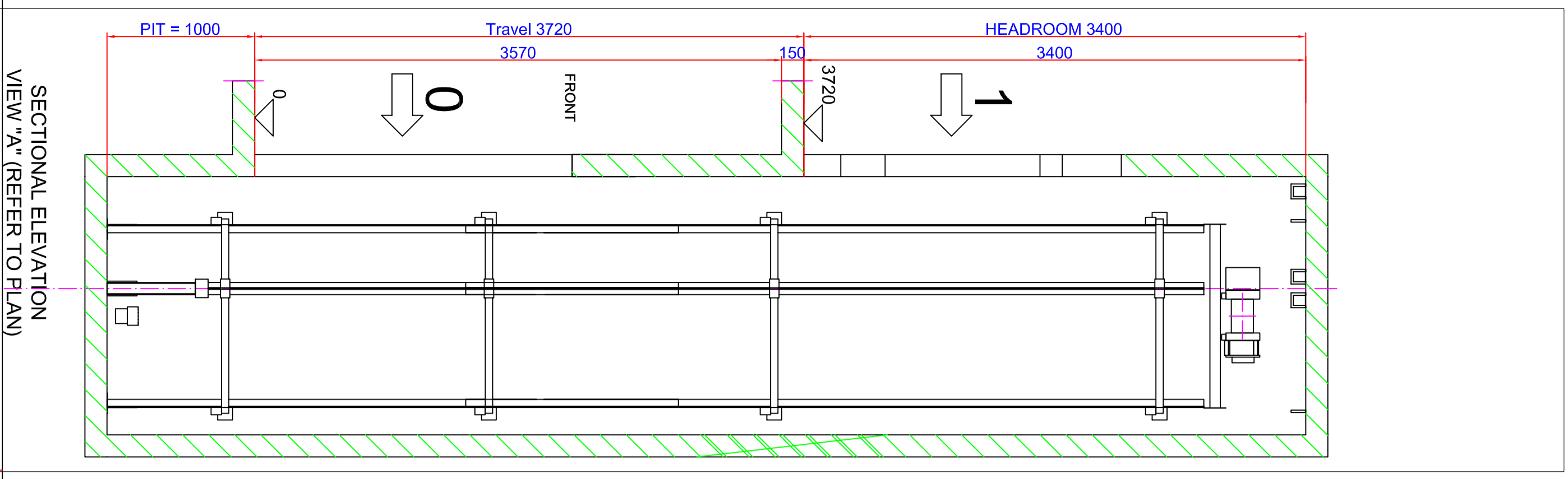


MINIMUM LUX REQUIREMENTS



VALIDITY OF LAYOUT TO BE VERIFIED AT TIME OF ORDER
DO NOT SCALE THIS DRAWING

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CUSTOMER NAME : Vypracoval: Ing. Martin Trtl Ing. Peter Sivoni PhD. ADDRESS : ZS Medzlaborecká	
NEG. No. : G3NG189X01/01 Cont. No. : DUTY : : 630 Kg PERSONS : 8 SPEED : : 1 m/s D/F VERSION IJ2016 : 12.5. I/P VERSION : 2.8	
GENERAL NOTES	
Drawn By	Drawing Number
Checked By	G3NG189X01/01
Printed Date	
Contact No	Sheet No. 4-4 REVISION



For Information Only

Date		Revision	
Model:			
PROJECT : ZS Mediaborecká NAME : ZS Mediaborecká ADDRESS : parc. č. 1564/02,3,4,5,88, 15638/7,8,9,10,94,95, k.ú. Ružinov, obec Bratislava – Ružinov SO 01 - Zákonná sídla CUSTOMER : Vypracoval: Ing. Martin TIK Ing. Peter Štovič, PhD. ADDRESS : ZS Mediaborecká			
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DUTY : 630 Kg		PERSONS : 8	
SPEED : 1 m/s		D/P VERSION L202016	
D/P VERSION : 12.5.		I/P VERSION : 2.6	
OTIS INSTALLATION DRAWING			
Drawn By :	Drawing Number :	Sheet No. :	REVISION :
Checked By :	INF G3NG189X01/01	1-1	
Printed Date :			
Contact No :			