

POS	DESCRIPCION
1	CAJA METALICA DE LA PRENSA CIZALLA
2	ESTRUCTURA DELA CIZALLA
3	CENTRAL HIDRAULICA
4	INTERCAMBIADORES DE CALOR
5	TABLERO APARATOS ELECTRICOS
6	CHUTE DE DESCARGA
7	TOLVA DE ALIMENTACION DE CHATARRA
8	ESCALERA GATO

DIBUJO :	OMAR BAILON LOPEZ	ESCALA:	MAQUINA CIZALLA VEZZANI
DISEÑO :	OMAR BAILON LOPEZ	S.E.	
APROBO :	OMAR BAILON LOPEZ	FECHA:	
			20-07-10



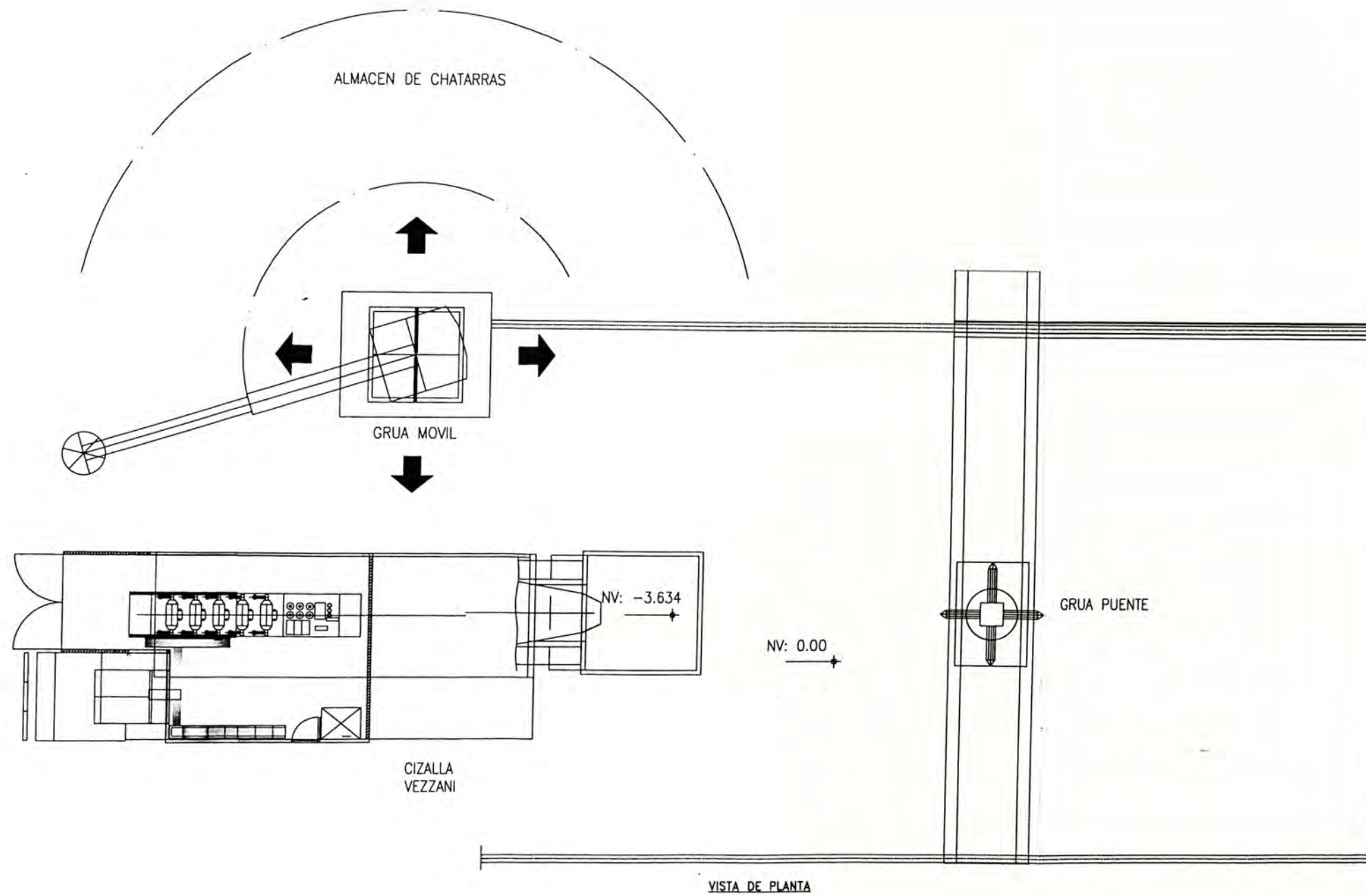
UNIVERSIDAD NACIONAL DE INGENIERIA  
FACULTAD DE INGENIERIA MECANICA  
ESCUELA DE INGENIERIA MECANICA


PLANO N° 1

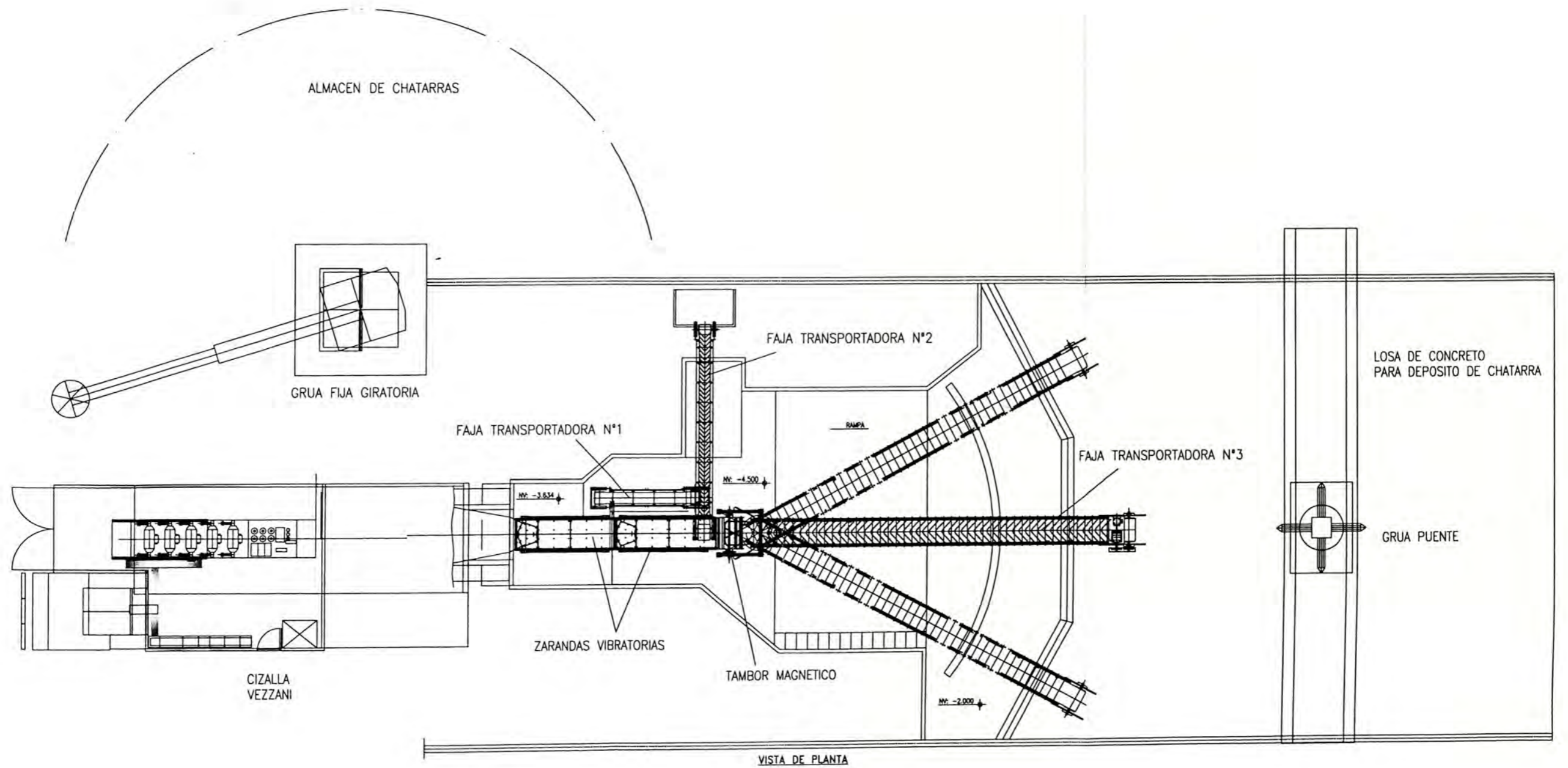
SUSTITUYE A :


SUSTITUIDO POR:

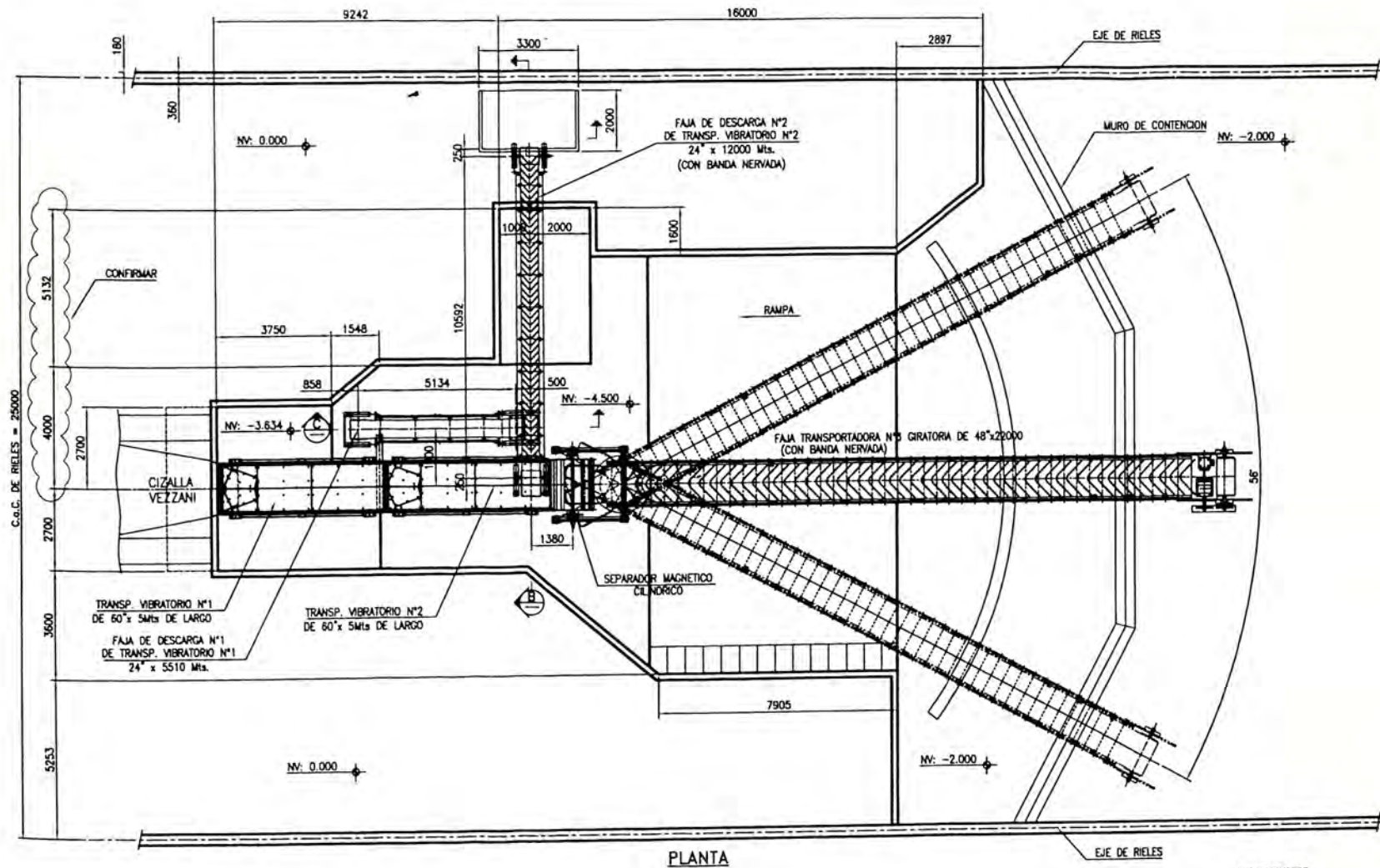
N°1



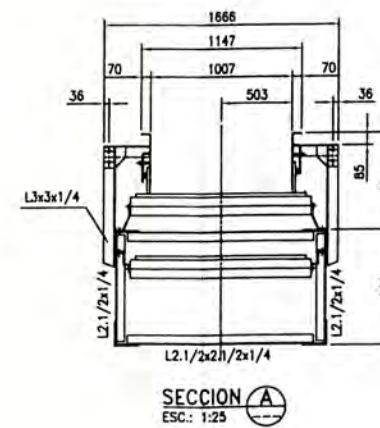
DIBUJO :	OMAR BAILON LOPEZ	ESCALA: S.E.	ESTADO ACTUAL DE LA PLANTA DE CIZALLAMIENTO
DISEÑO :	OMAR BAILON LOPEZ		
APROBO :	OMAR BAILON LOPEZ	FECHA: 20-07-10	
	UNIVERSIDAD NACIONAL DE INGENIERIA	PLANO N° 2	N°2
	FACULTAD DE INGENIERIA MECANICA	SUSTITUYE A :	
	ESCUELA DE INGENIERIA MECANICA	SUSTITUIDO POR:	



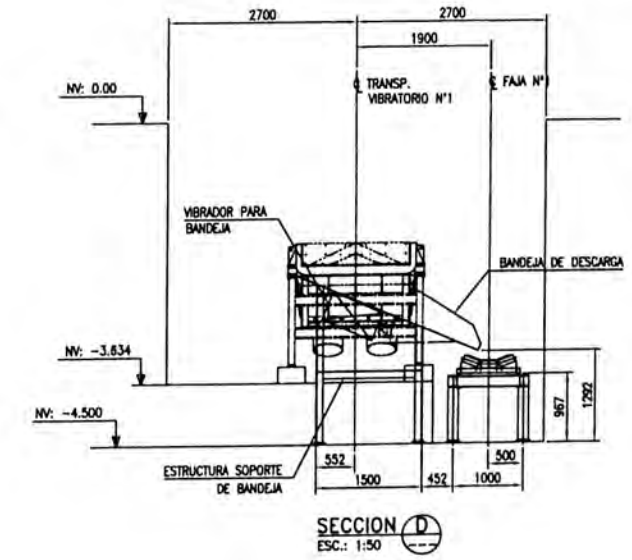
DIBUJO :	OMAR BAILON LOPEZ	ESCALA:	MEJORA PROPUESTA PARA LA PLANTA DE CIZALLAMIENTO
DISEÑO :	OMAR BAILON LOPEZ	S.E.	
APROBO :	OMAR BAILON LOPEZ	FECHA: 20-07-10	
	UNIVERSIDAD NACIONAL DE INGENIERIA	PLANO N° 3	N°3
	FACULTAD DE INGENIERIA MECANICA	SUSTITUYE A :	
	ESCUELA DE INGENIERIA MECANICA	SUSTITUIDO POR:	



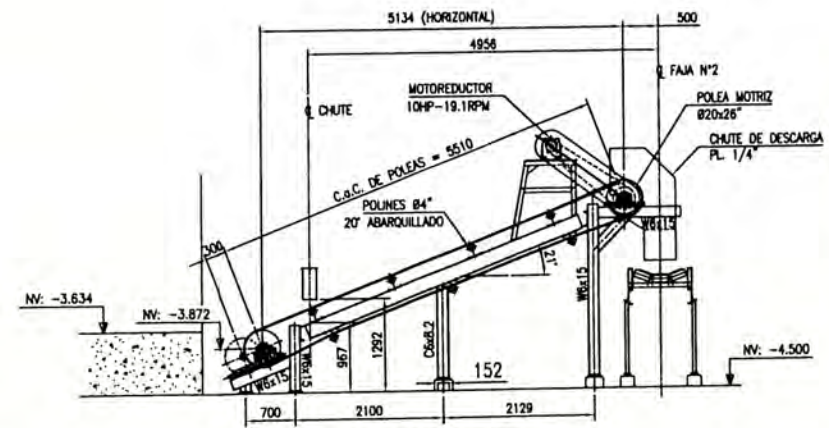
PLANTA



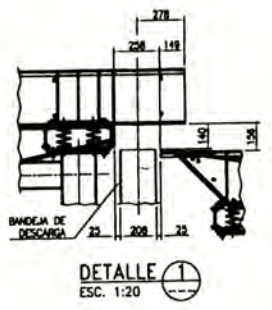
SECCION A  
ESC.: 1:25



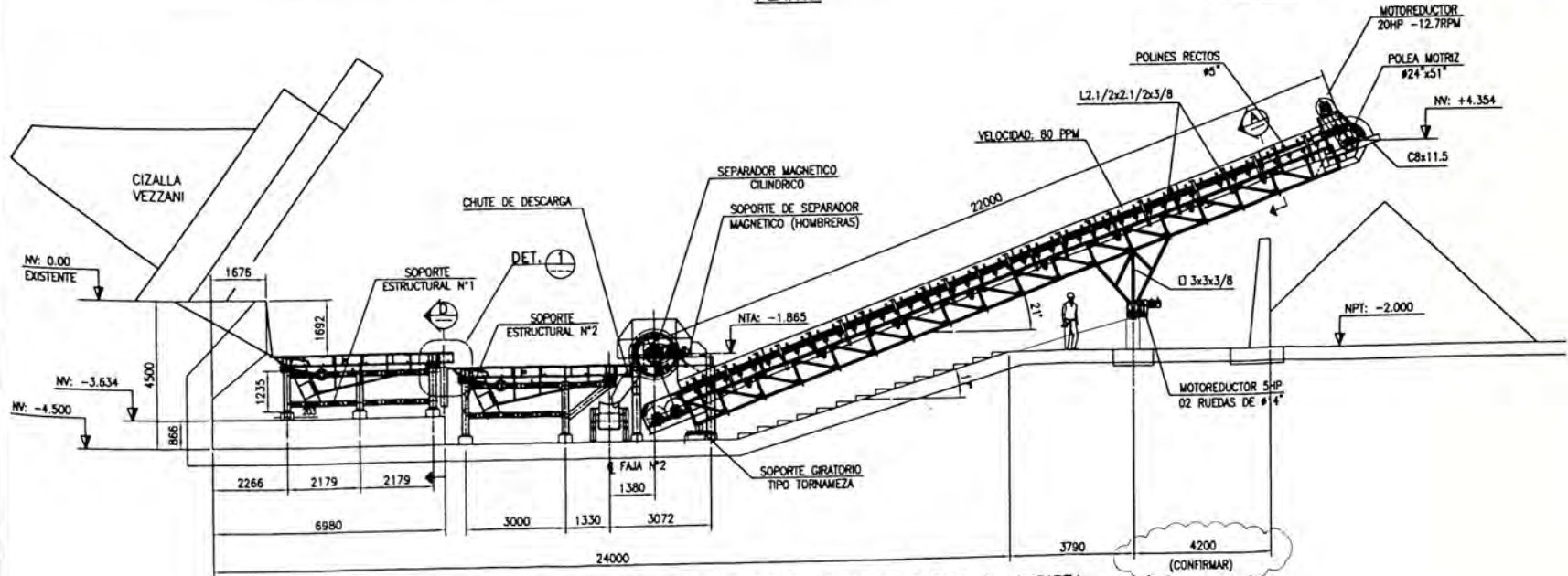
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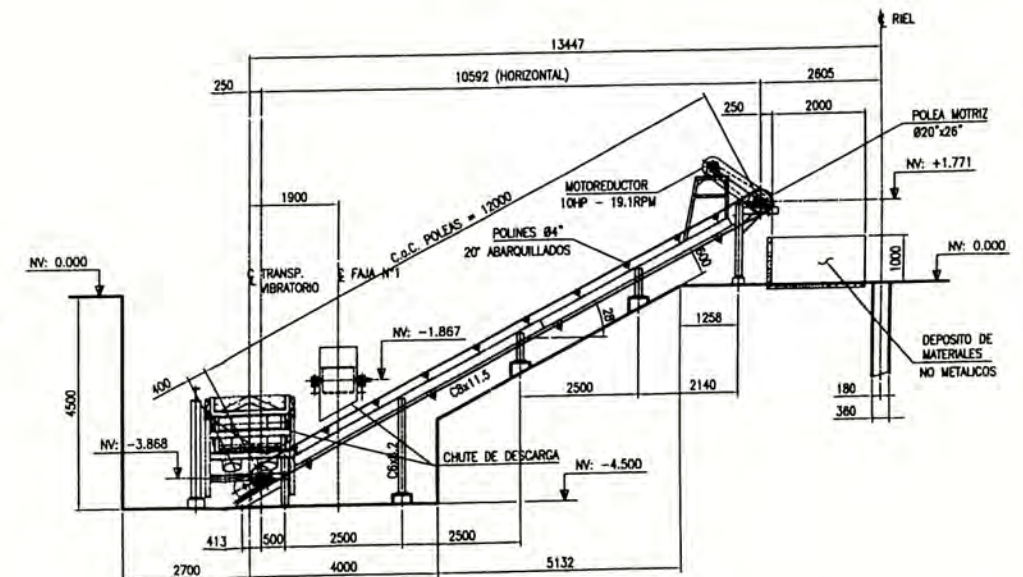
SECCION C  
ESC.: 1:50



DETALLE 1  
ESC.: 1:20



ELEVACION-REVAMPING, SISTEMA DE ALIMENTACION Y LIMPIEZA  
ESCALA: 1:100



SECCION B  
ESC.: 1:75

NOTAS GENERALES:  
1. DIMENSIONES EN mm. ELEVACIONES EN m.  
2. MATERIAL: ACERO ESTRUCTURAL ASTM-A36.  
3. PERFILES DE CONEXION: CALIDAD ASTM-A325.  
4. SOLDADURA: FILETE DE 3/16" MIN. (S.I.C.) Y CON ELECTRODO AWS E70XX.  
5. LA PINTURA SERA DE ACUERDO A LAS ESP. TECNICAS.  
6. INDICACION DE MARCA: [ ]

REVISIONES	DESCRIPCION	POR	APROB.	FECHA
F	SE MODIFICA SEGUN INDICACION DEL CUENTE	A.F.	C.C.	22.04.08
D	SE MODIFICA SEGUN INDICACION DEL CUENTE	A.F.	C.C.	17.04.08
C	SE MODIFICA SEGUN INDICACION DEL CUENTE	A.F.	C.C.	14.04.08
B	SE MODIFICA SEGUN INDICACION DEL CUENTE	A.F.	C.C.	08.04.08
A	EMITIDO PARA REVISION	E.CH.	C.C.	22.02.08

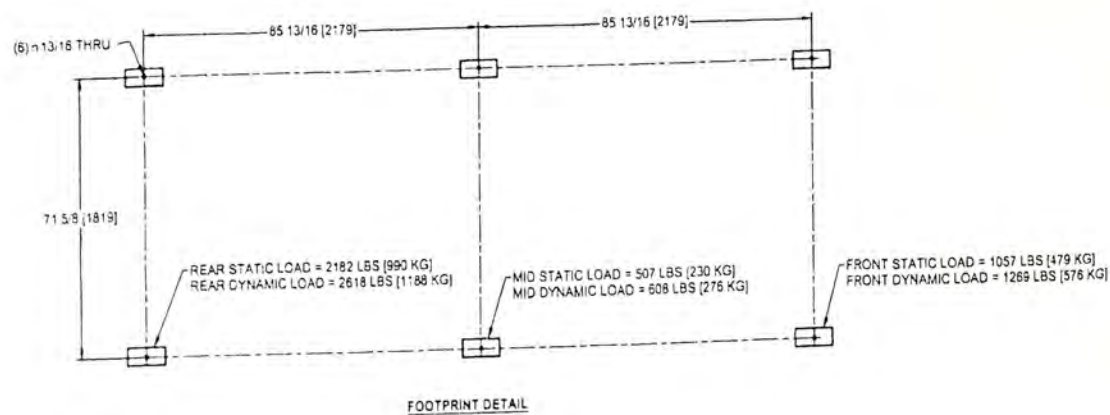
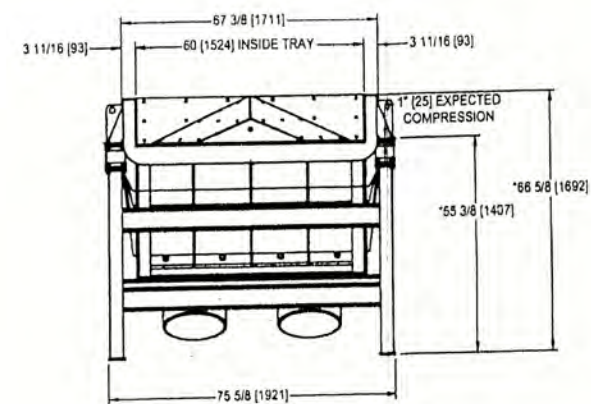
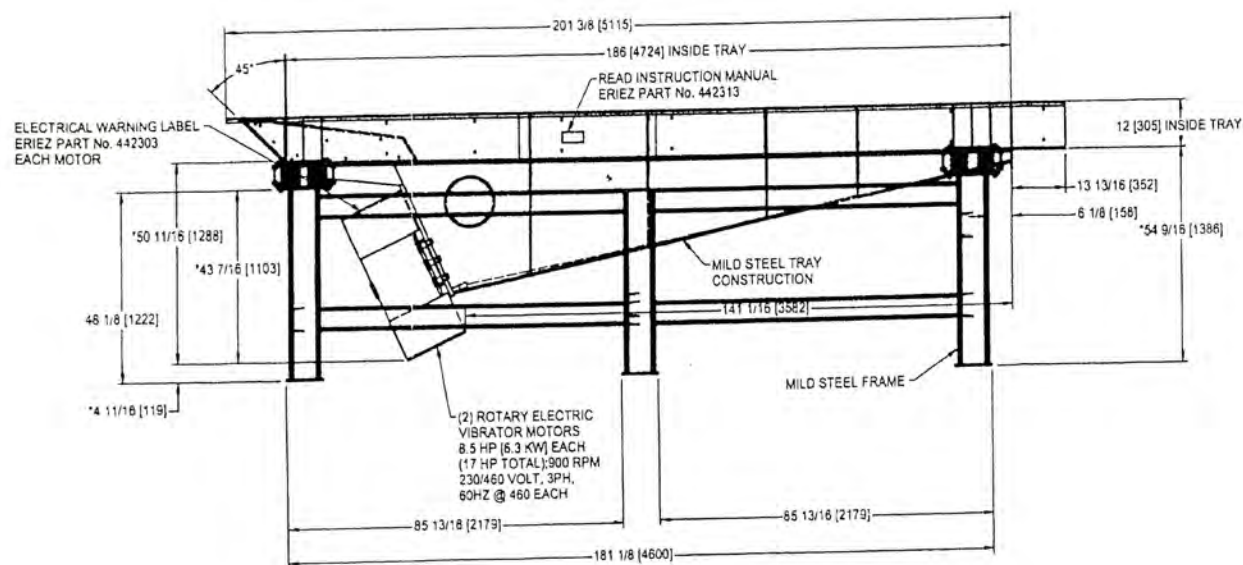
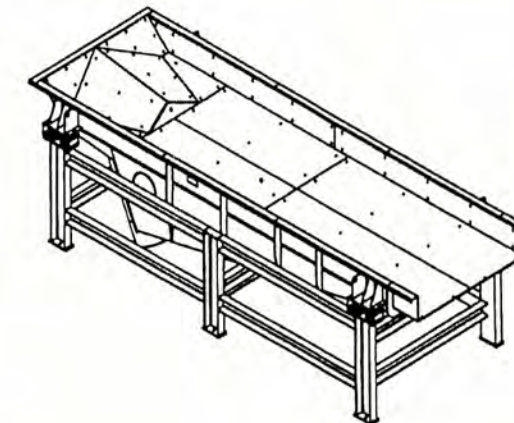
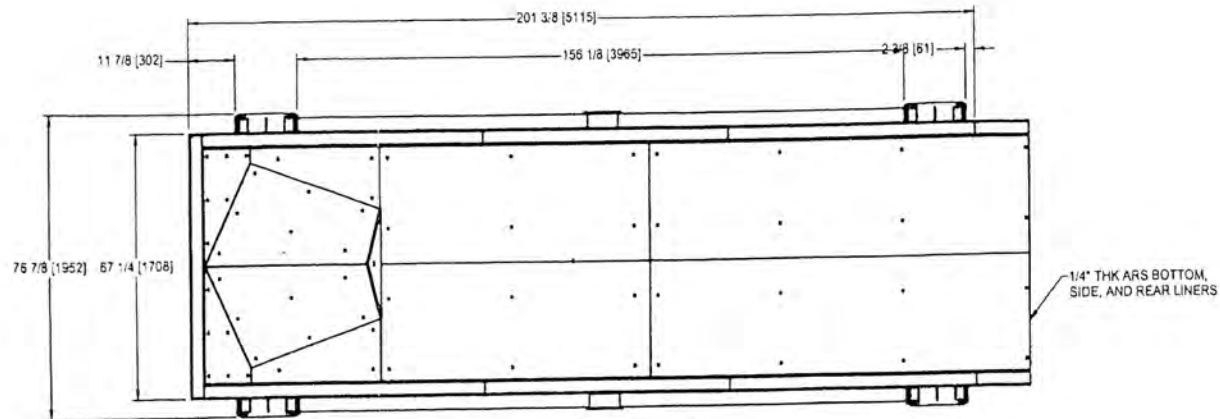
REFERENCIAS	N DE PLANO	REFERENCIA

CLIENTE: **EQUIMAG S.A.A.**

TITULO: **SIDER PERU S.A. REVAMPING SIST. DE ALIMENTACION Y LIMPIEZA (ALT-A)**

CONSTRUCTION, ENGINEERING, MANAGEMENT, PROCURE

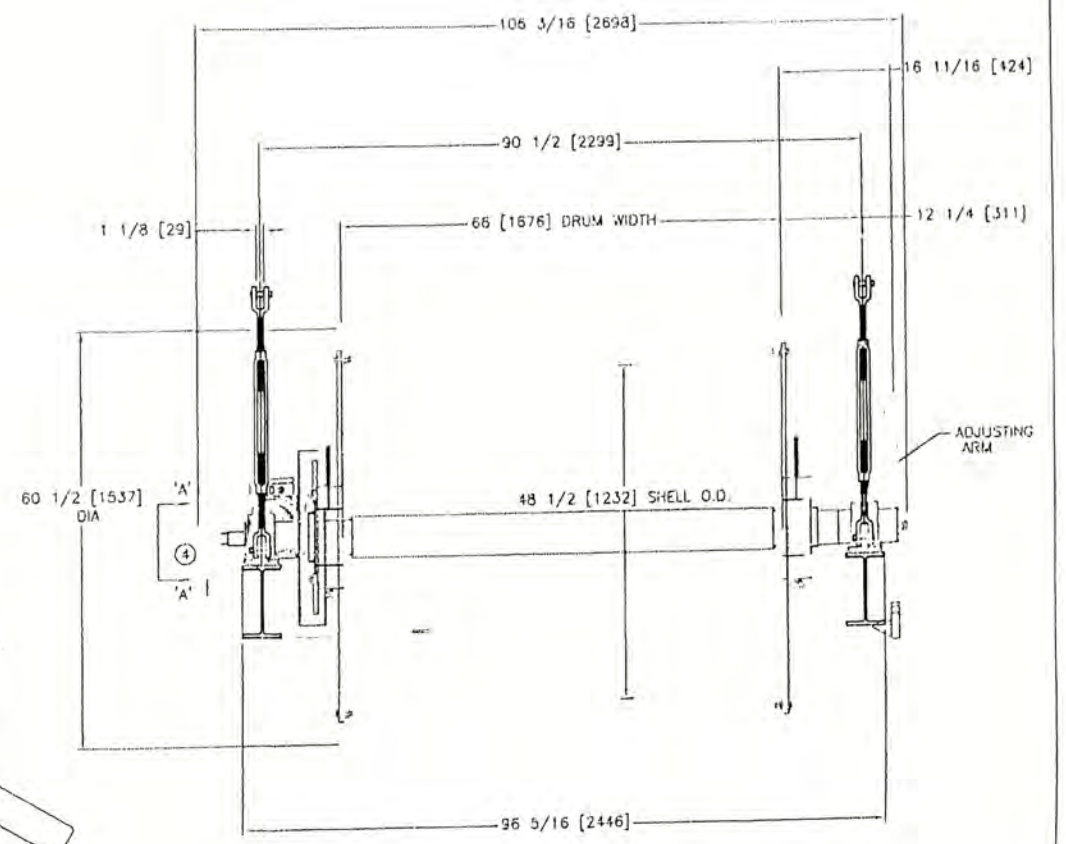
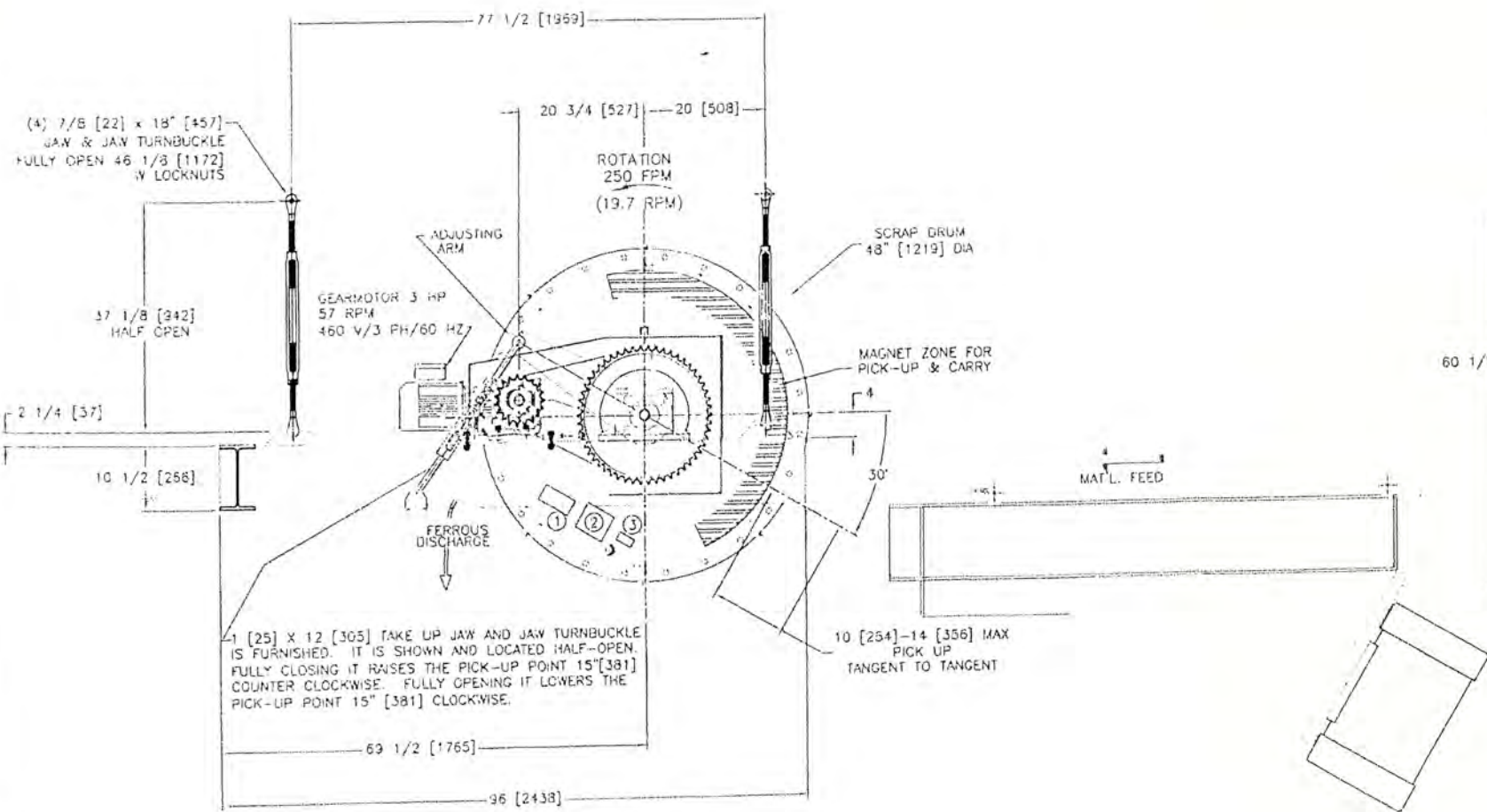
ESTE PLANO Y LA INFORMACION CONTENIDA EN EL SON PROPIEDAD DE CEMPROTECH S.A.C. SU USO Y REPRODUCCION SIN AUTORIZACION, ESTA PROHIBIDA.	N° D.T.:
DISEÑADO	5007
DIBUJADO E.C.H.	22.02.08
REVISADO S.ZARAMA	22.02.08
APROBADO H.TOVAR	22.02.08
N° DE PLANO:	IND.
<b>OT-EQ-AG-001</b>	



ASSEMBLY NOTES:  
ESTIMATED STROKE = 0.375 INCH  
ESTIMATED WEIGHT = 9283 LBS [4202 KG]  
STATIC LOAD = 9283 LBS [4202 KG]  
DYNAMIC LOAD = 11115.6 LBS [5042.4 KG]  
EXPECTED COMPRESSION = 1"

\*\*\* DENOTES SPRING @ FREE HEIGHT  
THIS IS A TUNED DEVICE. DIMENSIONS MARKED WITH AN  
ASTERISK (\*) ARE DETERMINED AT ASSEMBLY. PLEASE NOTE  
WHEN DESIGNING, CONSTRUCTING, SUPPORTING OR LOCATING  
RELATED EQUIPMENT THAT THESE DIMENSIONS MAY VARY"

<b>ERIEZ</b>	
<small>WORLD AUTHORITY IN ADVANCED TECHNOLOGY FOR MAGNETIC VIBRA FEED AND METAL DETECTION APPLICATIONS WORLD HEADQUARTERS, ENH, PA, USA</small>	
OUTLINE	
TITLE FOR 60 X 200 X 12 MS TRAY W/ 14" SS END W/ ARS LINERS BRUTE FORCE FEEDER	
DR BY JVS	DATE 3/12/08
ORDER # 197879	SCALE 3/8"
ER #	NOTICE - THIS DRAWING AND THE PRINCIPLE OF DESIGN ARE THE PROPERTY OF AND PROPRIETARY TO ERIEZ
1N-200802205	DRAWING NUMBER
INCHES (MILLIMETERS)	<b>4R -200802933</b>

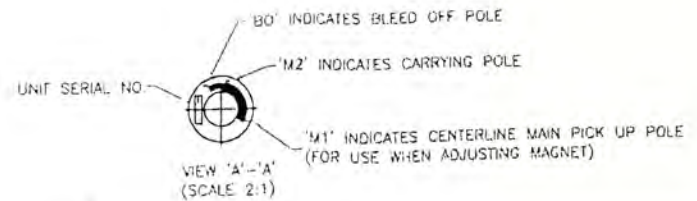


1 [25] X 12 [305] TAKE UP JAW AND JAW TURNBUCKLE IS FURNISHED. IT IS SHOWN AND LOCATED HALF-OPEN. FULLY CLOSING IT RAISES THE PICK-UP POINT 15" [381] COUNTER CLOCKWISE. FULLY OPENING IT LOWERS THE PICK-UP POINT 15" [381] CLOCKWISE.

10 [254]-14 [356] MAX PICK UP TANGENT TO TANGENT

APPROX. WEIGHT DRUM --- 9,900 LBS (4490 KG)  
 APPROX. WEIGHT DRUM W/ DRIVE PACKAGE & FRAME - 11100 LBS (5035 KG)  
 POWER --- 7160 WATTS @ 230 V.D.C.  
 UNIT PAINTED ERIEZ GRAY

- HAZARD LABELS
- 1) READ INSTRUCTION MANUAL STK. NO. 442313 (2) REQ'D (1) EA. SIDE
  - 2) MAGNETIC FIELD STK. NO. 442276 (2) REQ'D. (1) EA. SIDE
  - 3) WARNING CRUSH MAGNETIC FORCE STK. NO. 443061 (2) REQ'D (1) EA. SIDE
  - 4) WARNING ELECTRICAL SHOCK STK. NO. 442303

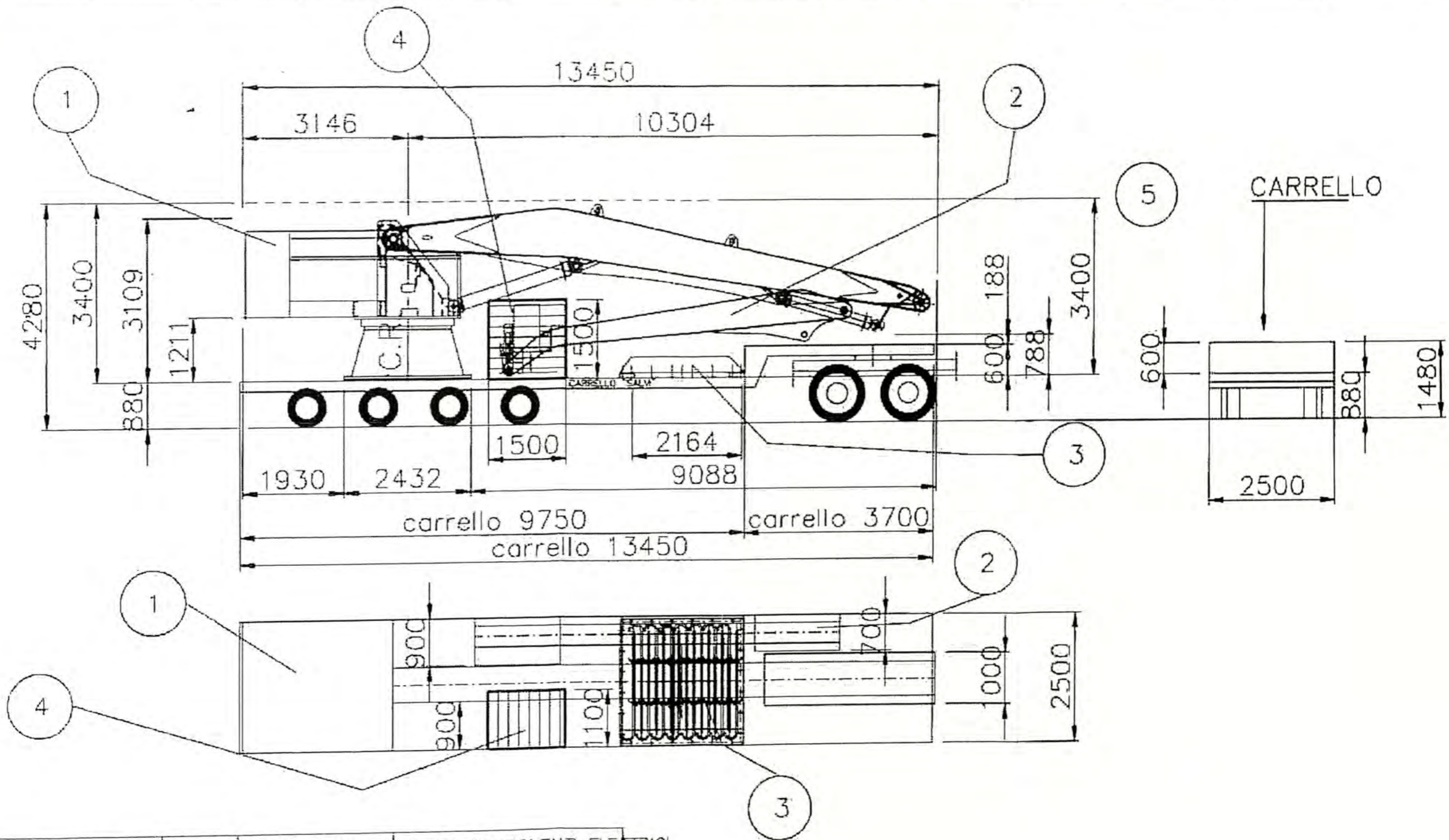


NOTE:  
 CHUTES, HOPPERS, CONVEYOR DRIVE PULLEY ETC. WITHIN 4 FT. [1219] OF MAGNETIC ELEMENT TO BE NON-MAGNETIC MATERIAL. (BY OTHERS)

NOTE:  
 ALLOW ± 6" [152] HORIZONTAL ADJUSTMENT IN SUPPORT FOR TURNBUCKLES TO OPTIMIZE DRUM LOCATION & RECOVERY

CHECK BACK  
 DATE  
 BY  
 CHECK BACK  
 DATE

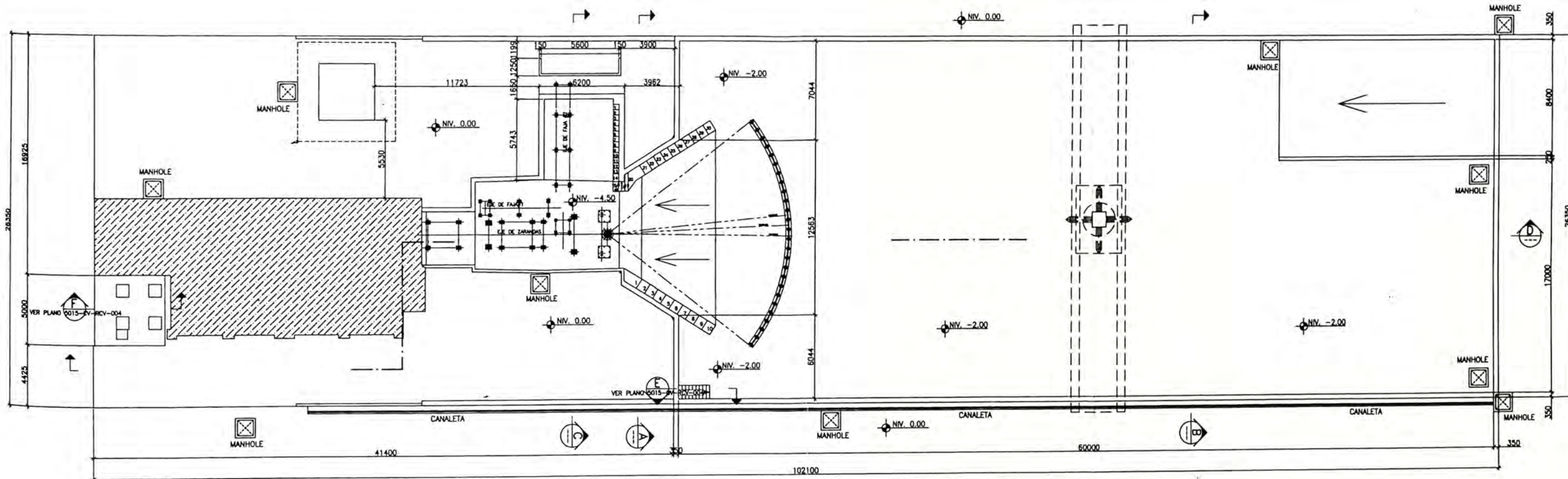
<b>ERIEZ</b> WORLD LEADER IN ADVANCED TECHNOLOGY FOR MAGNETIC SEPARATION AND METAL DETECTION APPLICATIONS WORLD HEADQUARTERS, ERIZ, PA, USA	
OUTLINE	
TITLE ELECTRO ACITATOR DRUM 48X66 (8) WIPERS 3"	
FOR 1/4 S.K. SHEL 8" SILE DRUMS #/ DRIVE & DRIVE PULLEY	
DRY CEN	DATE 3/24/2008 APPROVED:
ORDER # 197925	SCALE DO NOT SCALE 4R-200702519
E.R. # XA	NOTICE--THIS DRAWING AND THE PRINCIPLE OF DESIGN ARE THE PROPERTY OF AND PROPRIETARY TO ERIEZ
4R-200802332	DRAWING NUMBER
INCHES (MILLIMETERS)	4 R - 200802782



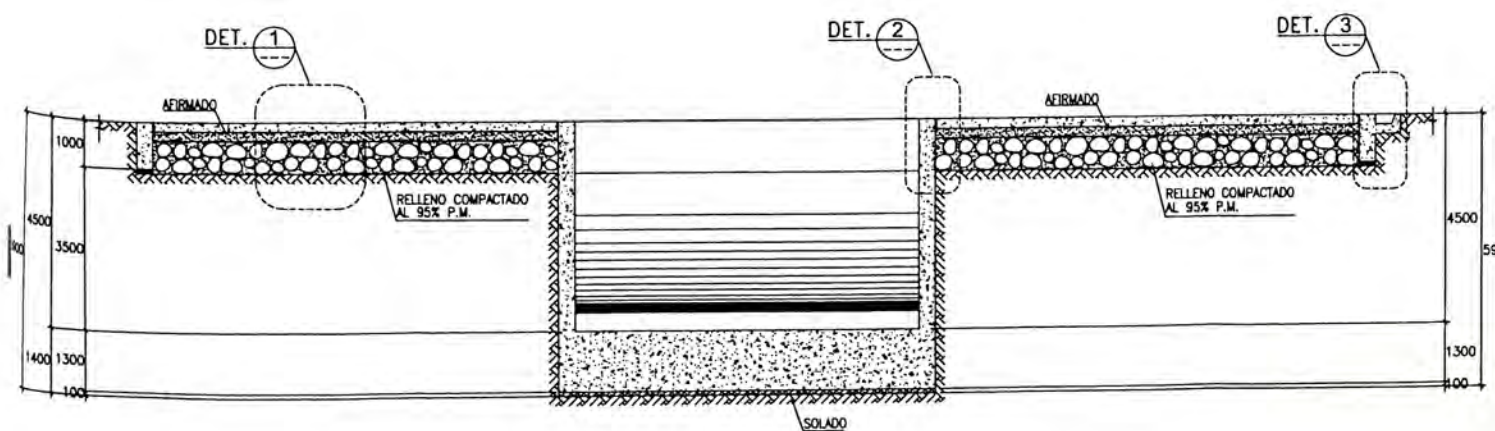
POS.	NOME DEL COLLO	PESO Kg	DIMENSIONI mm	PARTI COMPONENTI ELETTRICI
1	- BASAMENTO CON RAILLA - TORRETTA GIREVOLE CON - 9000 Kg DI ZAVORRA - CILINDRO PRIMARIO - CILINDRO SECONDARIO	30600	13450 LUNGHEZZA 2500 LARGHEZZA 3400 ALTEZZA	MOTORI ELETTRICI COLLETTORE ELETTRICO
2	BRACCIO SECONDARIO + CAVALLOTTO	1800	7100 LUNGHEZZA 900 LARGHEZZA 1200 ALTEZZA	/
3	- DIMA DI BASE CON TRAMME	2000	2450 LUNGHEZZA 2450 LARGHEZZA 400 ALTEZZA	/
4	CASSA POSTO COMANDI	300	1500 LUNGHEZZA 1100 LARGHEZZA 1500 ALTEZZA	- ROSTO DI COMANDO CON - 40 m DI CAVO

PESO TOTALE DELLA SPEDIZIONE KG. 34000 CIRCA

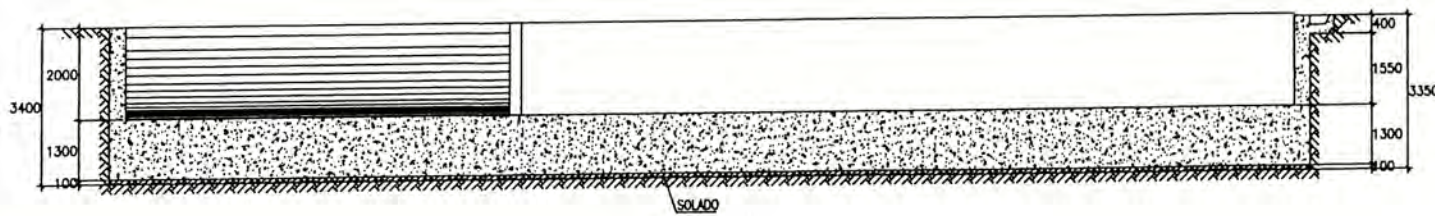
M. Codice	Pos.	Pecci	Denominazione	Materiale	Riferimento	Peso
<b>EUROMEC</b> srl EUROHYDROMEC ISOmec  ISORELLA (85) ITALIA Tel. 030882230 - Fax. 030882228			Denominazione: <b>SPEDIZIONE GRU FISSA</b> GF 55/16		<b>Disegno N°</b> 08640125-R	
			Disegnato: <b>Maurizio</b> Controllo:	Scala: <b>1:80</b> Data: <b>27/03/83</b>		
DIRITTI RISERVATI A TERMINI DI LEGGE - VIETATA LA RIPRODUZIONE E COMUNICAZIONE A TERZI						



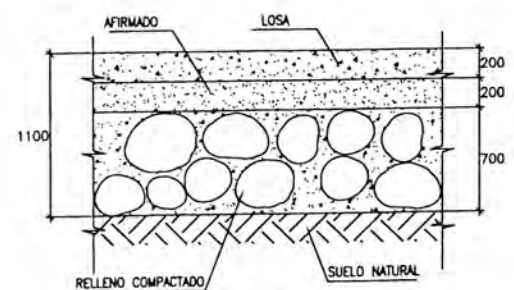
PLANTA  
ESCALA : 1:150



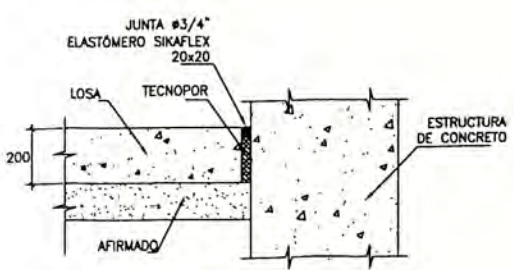
SECCION A  
ESCALA 5/E



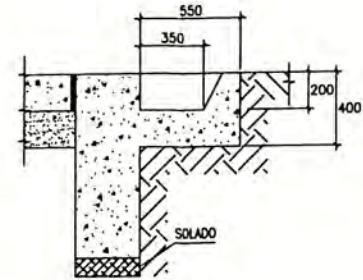
SECCION B  
ESCALA 5/E



DETALLE 1  
ESCALA : 1:25



DETALLE 2  
(TÍPICO)  
ESCALA : 1:10



DETALLE 3  
(TÍPICO)  
ESCALA : 1:10

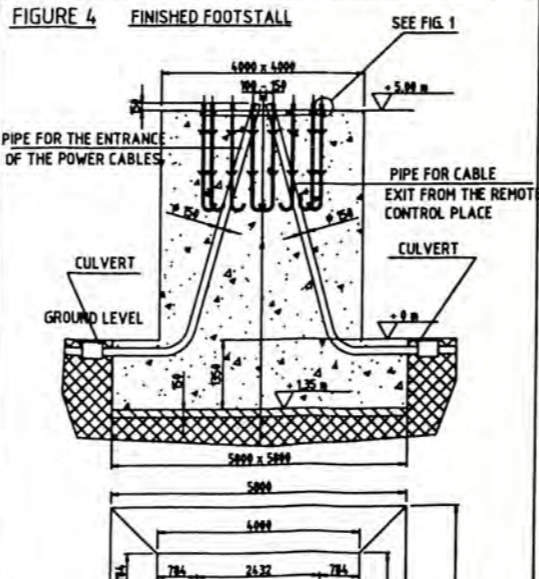
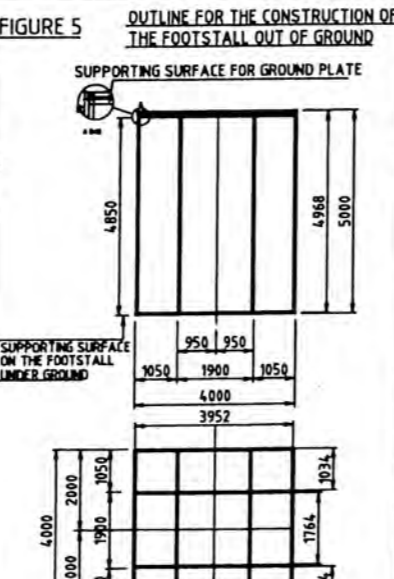
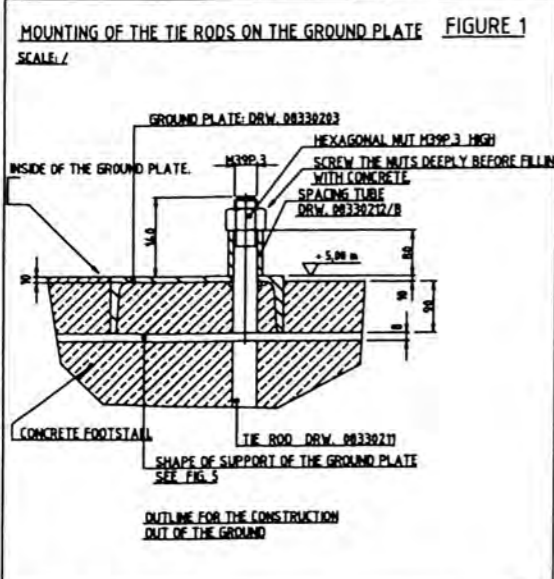
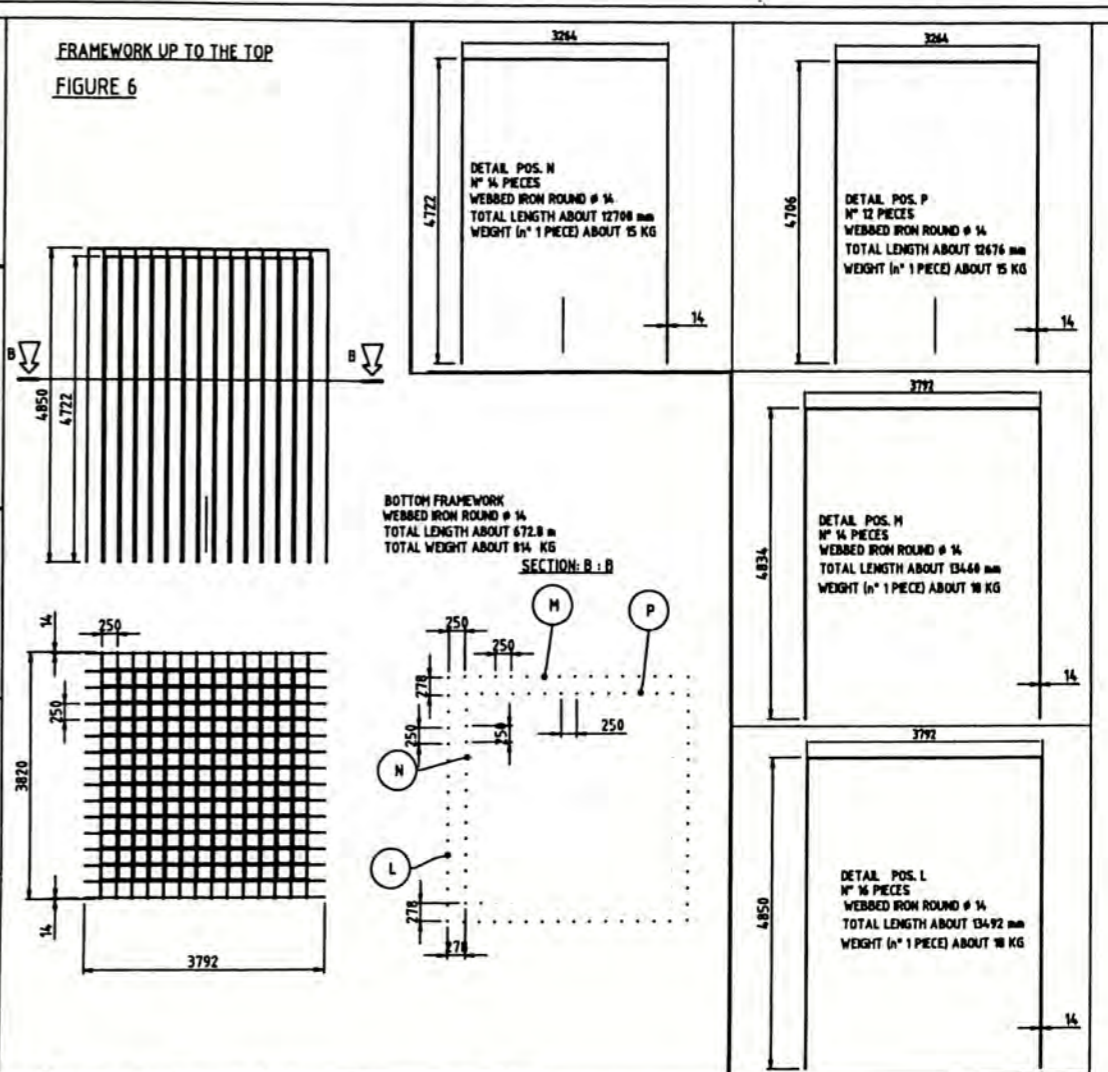
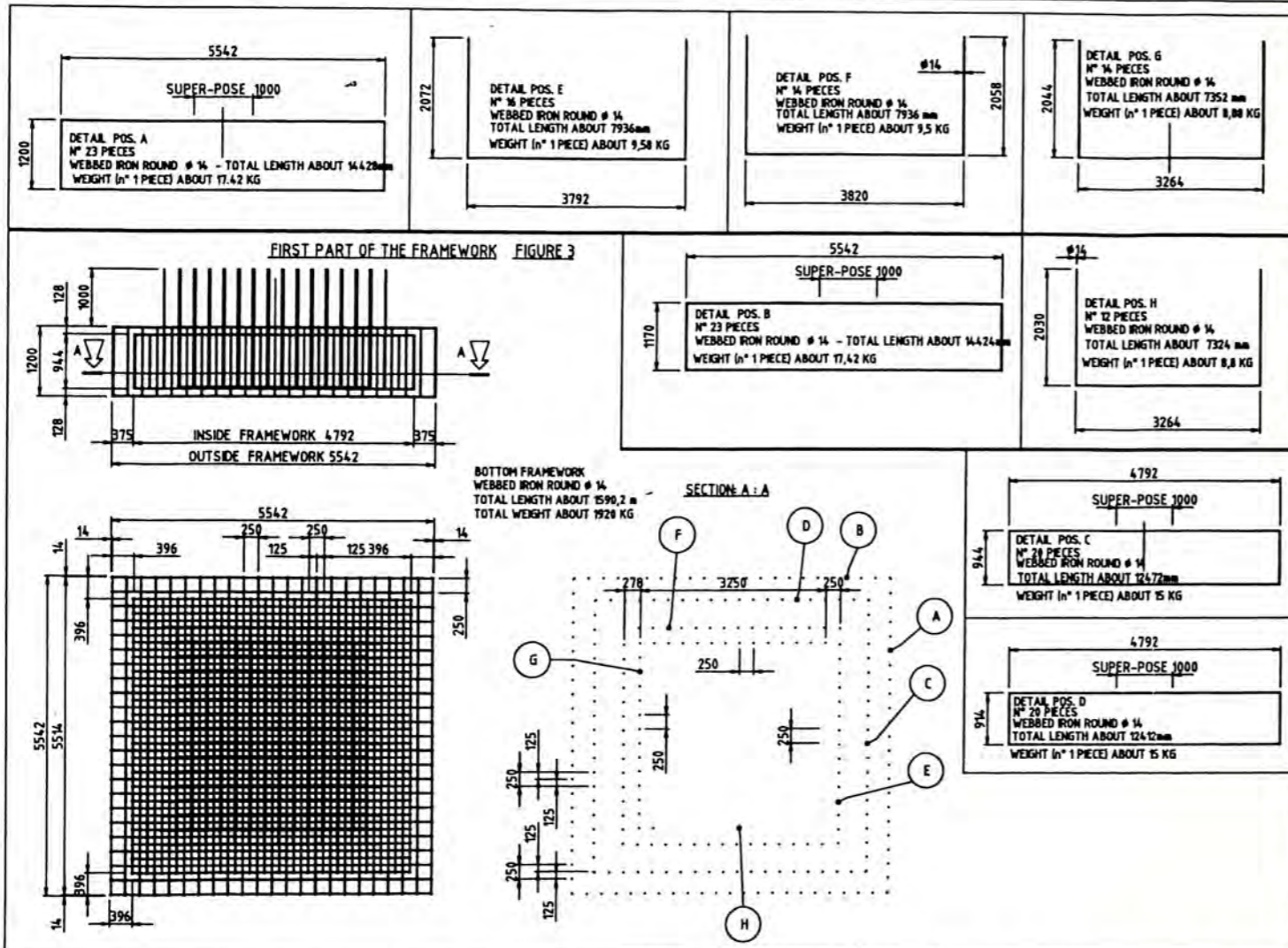
REVISIONES				REFERENCIAS			
REV.	DESCRIPCION	POR	APROB.	FECHA	N.º DE PLANO	REFERENCIA	
0	AS BUILT	D.A.	F.P.	16.02.09			



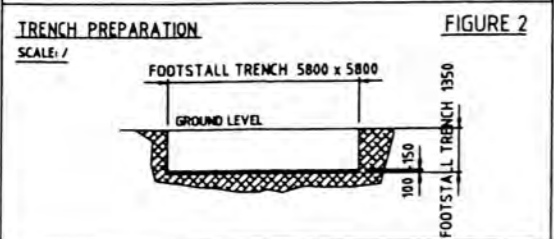
CLIENTE :		SIDER PERU-GERDAU	
TITULO :			
REVAMPING CIZALLA VEZZANI		PLANTA GENERAL	
ARQUITECTURA - SECCION A Y SECCION B			
DISEÑADO F. PALMA		07.07.08	
DIBUJADO D. ARCE		07.07.08	
REVISADO F. PALMA		07.07.08	
APROBADO			
N.º DE PLANO :		5015-CW-RCV-001	
N.º O.T. :		5015	
N.º REV :		IND.	

ESTE PLANO Y LA INFORMACION CONTENIDA EN EL SON PROPIEDAD DE CEMPROTECH S.A.C. SU USO Y REPRODUCCION SIN AUTORIZACION ESTA PROHIBIDA.

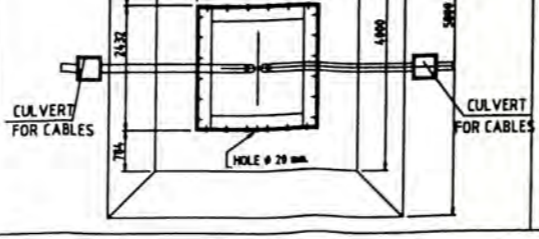




- Construction of the concrete footstall for stationary crane type GF 46/12**
- IMPORTANT -**  
DESIGN & CARRYING OUT OF THE FOUNDATION BASEMENT ARE ON THE BUYER'S ACCOUNT. THE INSTRUCTIONS GIVEN IN THE FOLLOWING PLAN ARE JUST AS AN INDICATION. EUROMECC S.R.L. REFUSES ALL RESPONSIBILITY COMING FROM A WRONG DESIGN OR MAKING OF THE FOUNDATION BASEMENT.
- 1) Prepare a trench with dimensions 5,8 x 5,8 m and depth 1,35 m from ground level (Fig.2).
  - 2) Perform a layer on the trench ground with pebble - gravel and cement for 0,15 m. thickness (Fig.2).
  - 3) Perform on site or aside the first part of the framework. It has to be well placed and strongly tied. Iron rounds must stick out even 1 m. from the ground level. (Fig. 3)
  - 4) Place No. 2 plastic pipes having 150 mm Ø, from the external culverts and oriented towards the top of the footstall in the middle of the crane base. (Fig. 4).
  - 5) Perform casting up to the ground level, paying attention to distribute the concrete uniformly. Take care that the framework, the culverts and the pipes do not move under casting pressure. First casting: 40 m³ equal to 84 tonn approx.
  - 6) Prepare aside the outline of the upper part of the footstall, which must have externally the exact shape of the parallelepiped, and in the upper part serves to place the ground plate and relevant tie rods. (Fig.5).
  - 7) Place the outline on the dry casted part, and tie it up strongly because it must support the side wall boards.
  - 8) Close the 4 sides (leaving a man passage for workers to be closed before casting). Perform completely the framework up to the top. (Fig. 6).
  - 9) Place the ground plate on the outline, checking tie rods top sticking (Fig. 1), the fixing of the spacers and the tightening of the nuts.
  - 10) Elongate the 2 plastic pipes up to the centre of the ground plate and let them stick out 150 mm approx., from the top. Put in the pipes an iron wire to pull electric cables from the culvert to the top. (Fig. 4).
  - 11) Check carefully the ground plate planarity and tie rods perpendicularity. Check framework ties. Check that connecting iron rounds are well tied up to the rods. Perform casting for 2 m. uniformly. Check well the ground plate planarity, then perform a second casting (complete parallelepiped). (80 m³ equal to 168 tonn approx.).
  - 12) Same days later go ahead with casting up to the top. Check well the ground plate planarity and tie rods perpendicularity. Pay attention to upper finishing. The ground plate must stick out from casting on the external side only (Fig. 1). Do not dirty nuts and rods threads. Wash them with water, then oil them. Fit on the port-hole side of the crane a fixing system for a ladder.
  - 13) 20 days later take all boards away, clean well the ground plate of the crane base; when unscrewing the nuts, check that threads are not damaged. Fit the side ladder to make the access to the footstall easier for the final crane fixing. Volume of the used concrete: 40-80 = 120 m³ equal to 252 tonn approx.
- NOTE:** on the top of the ground plate there's a reference hole (Ø 20 mm -Fig.4), which represents the passage port-hole of the crane basement. This hole must be placed in the orientation point for the access of the staff charged with the maintenance, and it's also the wall where to fit the access ladder.
- Arrange inside the footstall a pipe Ø 80 to collect the rain water on the top of the footstall.
- ASSEMBLY DRAWING** of the 5,00 m. high footstall from the ground level with mounted crane:



- 60x60 L SHAPE SP. 8 mm  
UNI EU 54
- TOTAL LENGTH 98,6-100 m  
WEIGHT: 758 KG
- TOP SHAPE AND BOTTOM SHAPE No. 8 PIECES -LONG SHAPE TO SUPPORT GROUND PLATE I - No. 2 PIECES 3952 mm. LONG
- VERTICAL SHAPE No. 12 PIECES 4968 mm. LONG
- MEDIUM SHAPE TO SUPPORT GROUND PLATE I - No. 2 PIECES 1764 mm. LONG
- SHORT SHAPE TO SUPPORT GROUND PLATE I - No. 4 PIECES 1034 mm. LONG



Il. Codice	Pos.	Quant.	Dimensione	Materiali	Stato	Prezzo
<b>CONSTRUCTION OF THE CONCRETE FOOTSTALL WITH FRAMEWORK FOR STATIONARY CRANES</b>						
TYPE: GF46/12 - GF52/16						
ISORELLA						Disegno N°
LONGO						GF46/12
1:20						08480112
08/97/98						
DIRTTA INVENZIONI A VERBA DI LEGGE - VIETA LA RIPRODUZIONE E COMUNICAZIONE A TERZI						