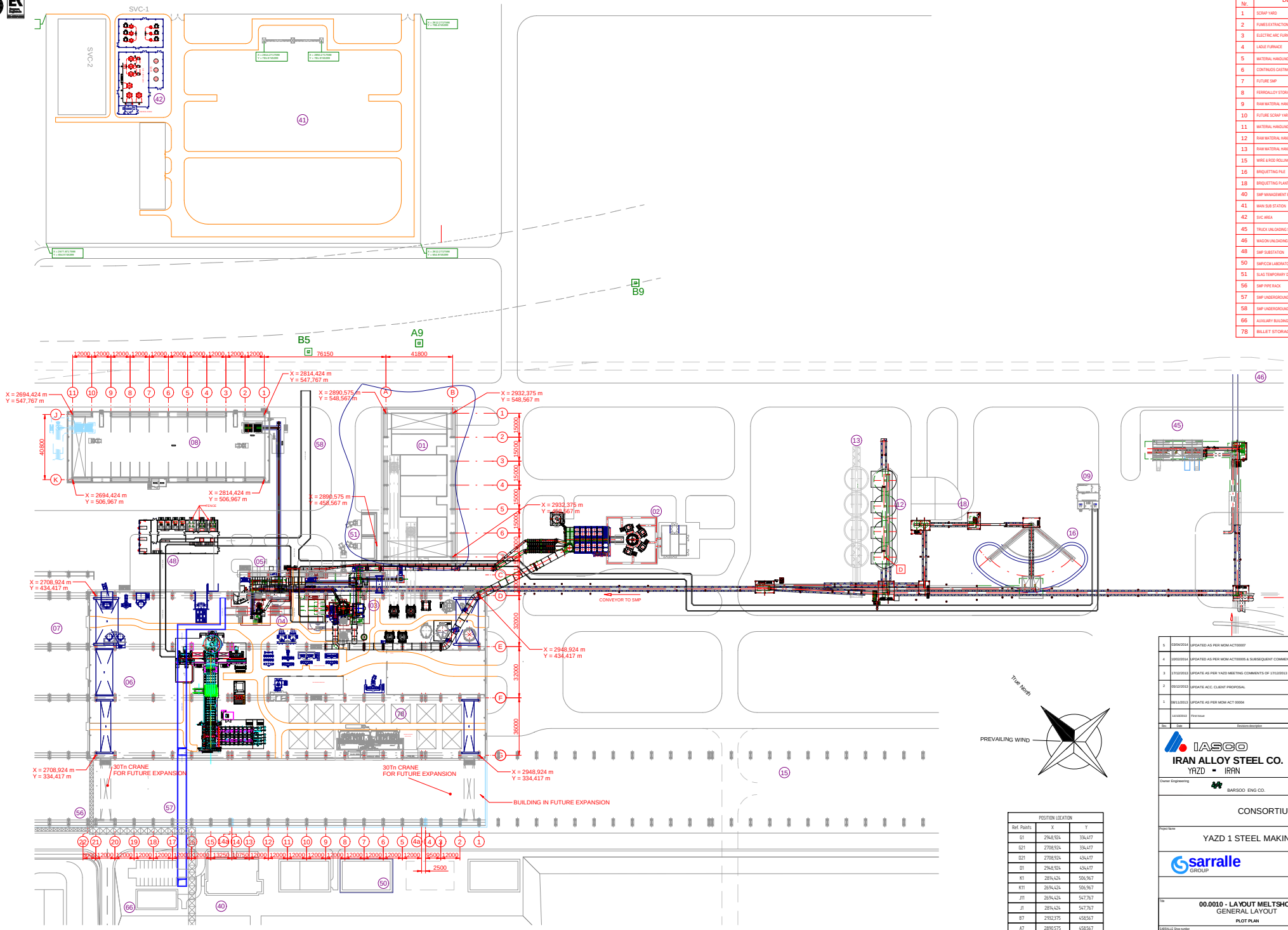


ITEM. Nr.	DESCRIPTION
1	SCRAP YARD
2	FUMES EXTRACTION SYSTEM
3	ELECTRIC ARC FURNACE
4	LADLE FURNACE
5	MATERIAL HANDLING SYSTEM
6	CONTINUOS CASTING MACHINE
7	FUTURE SMP
8	FERROALLOY STORAGE YARD
9	RAW MATERIAL HANDLING OFFICE - DRI
10	FUTURE SCRAP YARD
11	MATERIAL HANDLING OFFICE
12	RAW MATERIAL HANDLING PLANT
13	RAW MATERIAL HANDLING PLANT - FUTURE EXPANSION
15	WIRE & ROD ROLLING MILL
16	BRIQUETTING PILE
18	BRIQUETTING PLANT
40	SMP MANAGEMENT BUILDING
41	MAIN SUB STATION
42	SVC AREA
45	TRUCK UNLOADING STATION
46	WAGON UNLOADING STATION
48	SMP SUBSTATION
50	SMP/CCM LABORATORY
51	SLAG TEMPORARY DISPOSAL AREA
56	SMP PIPE RACK
57	SMP UNDERGROUND GALLERY - WATER PIPING
58	SMP UNDERGROUND GALLERY - POWER CABLES
66	AUXILIARY BUILDINGS MAIN MECHANICAL & ELECTRICAL ROOM
78	BILLET STORAGE

POSITION LOCATION		
Ref. Points	X	Y
G1	2948,924	334,477
G21	2708,924	334,477
D21	2708,924	434,477
D1	2948,924	434,477
K1	2814,424	506,967
K11	2694,424	506,967
J11	2694,424	547,767
J1	2814,424	547,767
B7	2932,375	458,567
A7	2890,575	458,567
A1	2890,575	548,567
B1	2932,375	548,567

5	03/04/2014	UPDATED AS PER MOM ACT00007	J.G. A.	J. G.	J. G.
4	10/02/2014	UPDATED AS PER MOM ACT00005 & SUBSEQUENT COMMENTS ABOUT IT	J.G. A.	J. G.	J. G.
3	17/12/2013	UPDATE AS PER YAZD MEETING COMMENTS OF 17/12/2013	J.G. A.	J. G.	J. G.
2	05/12/2013	UPDATE ACC. CLIENT PROPOSAL	J.G. A.	J. G.	J. G.
1	08/11/2013	UPDATE AS PER MOM ACT 00004	J.G. A.	J. G.	J. G.
	14/10/2013	First Issue	J.G.	J. G.	J. G.
No.	Date	Revisions description	Drawn by	Verified by	Reviewed by

IASCO
IRAN ALLOY STEEL CO.
YAZD - IRAN
Owner Engineering
BARSOO ENG CO.
APPROVED (Stamp)

CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (kg) (Kgm²)

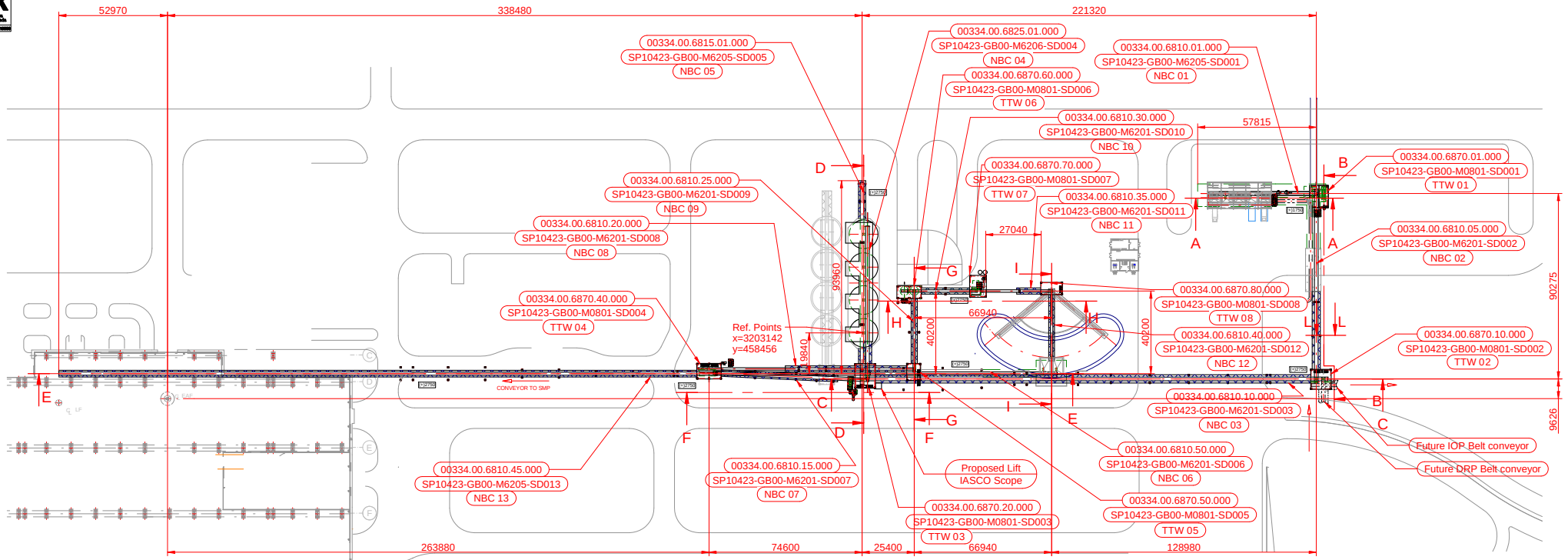
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00.0010 - LAYOUT MELTSHOP
GENERAL LAYOUT
PLOT PLAN

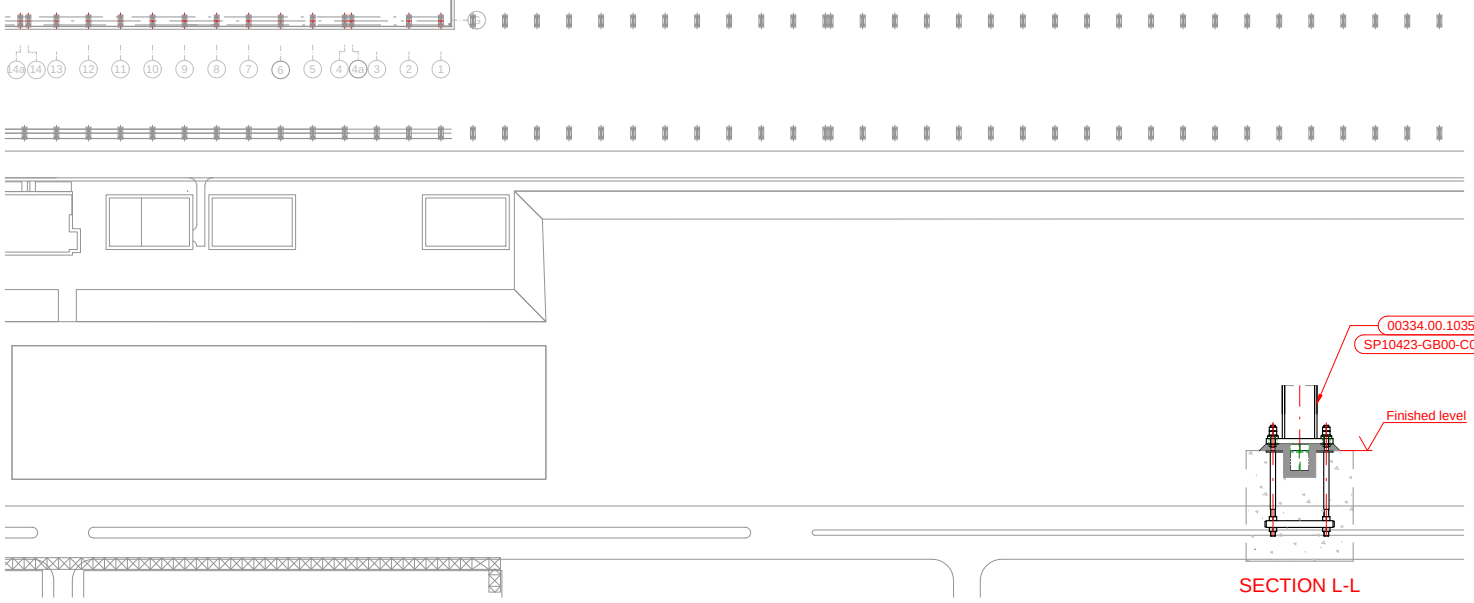
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SARRALLE Shop number
00334.00.0010.01.000
Revision 5

OWNER dwg number
Revision 5
No. of sheets 1
Sheet 1 Follow

File nr





SECTION L-L

Rev.	Date	Revisions description	Drawn by	Verified by	Reviewed by
5	26/06/2014	Update with detail engeneering	S.Z. 26/06/2014	J. G. 26/06/2014	J. G. 26/06/2014
4	19/06/2014	Update as per mom ACT00010	S.Z. 19/06/2014	J. G. 19/06/2014	J. G. 19/06/2014
3	29/05/2014	Update as per mom ACT00009	S.Z. 29/05/2014	J. G. 29/05/2014	J. G. 29/05/2014
2	28/02/2014	Update with groung level and basic engeneering	S.Z. 28/02/2014	J. G. 28/02/2014	J. G. 28/02/2014
1	31/01/2014	Update as per mom ACT00005	S.Z. 31/01/2014	J. G. 31/01/2014	J. G. 31/01/2014
	05/12/2013	First Issue	S.Z. 05/12/2013	J. G. 05/12/2013	J. G. 05/12/2013

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YAZD - IRAN

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BARSOO ENG CO.

CONSORTIUM

Project Name

YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr: SP10423

Obtained from

Replaces

Family code/Machine code

Weight (Kg) | J (Kgm²)

00.1015 - MHS LAYOUT

RMH LAYOUT

ASSEMBLY

Scale: 1:1000

SARRALLE Shop number: 00334.00.1015.01.000

Revision: 5

Format

Nr. of sheets: 9

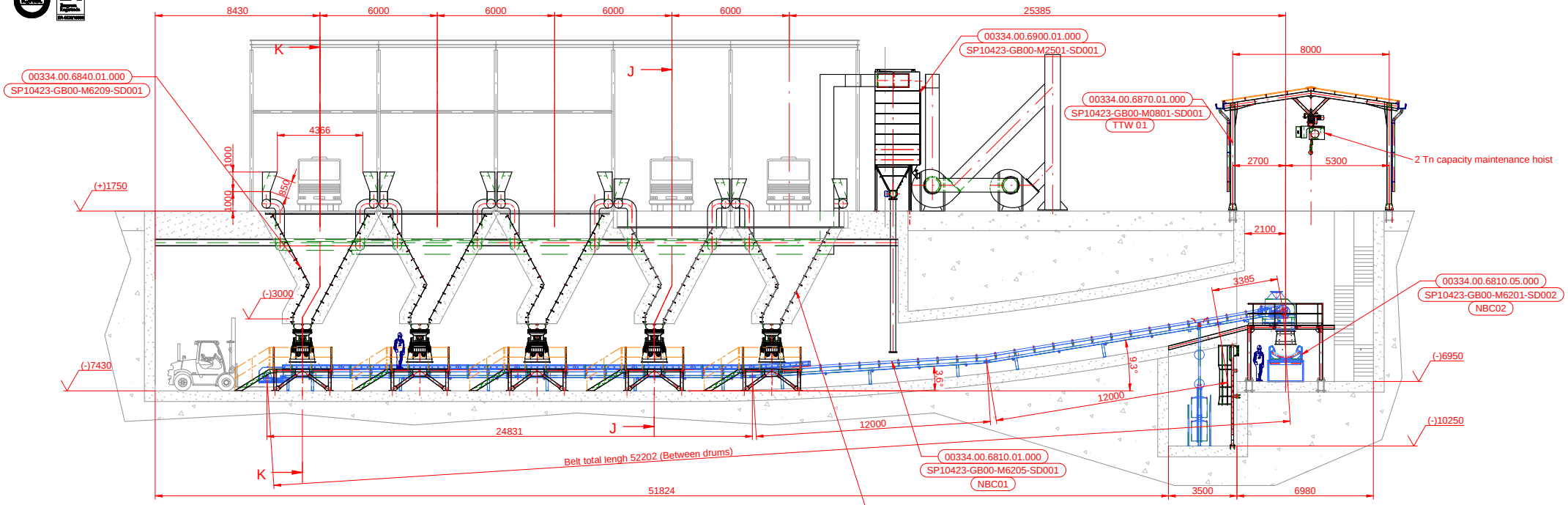
OWNER dwg number

Revision: 5

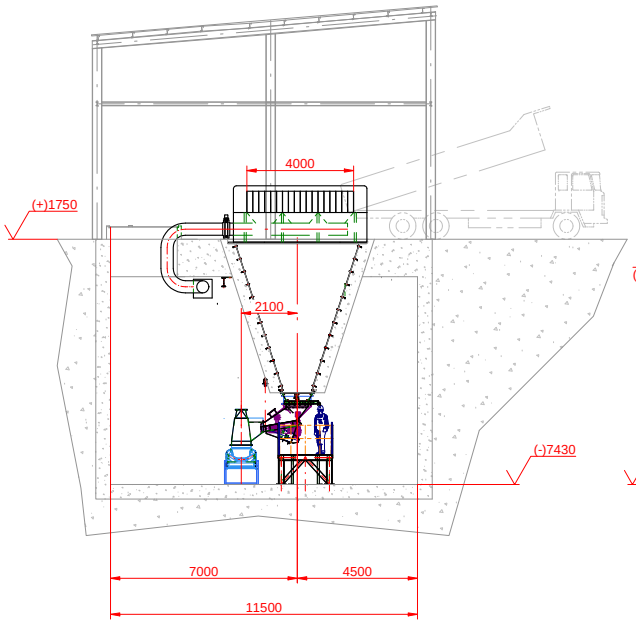
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File nr

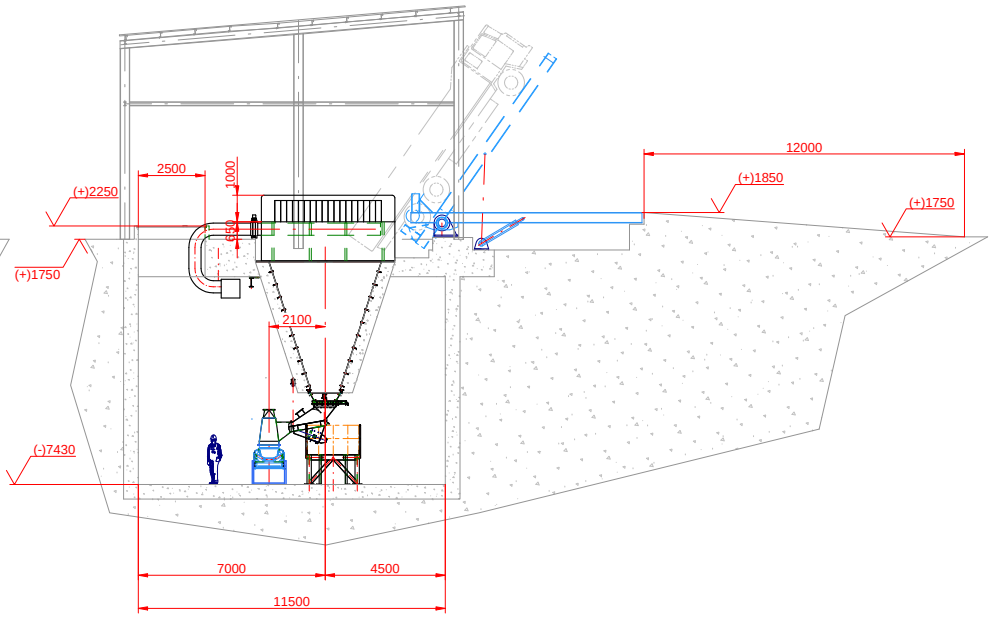
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SECTION A-A
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SECTION K-K
1:100



SECTION J-J
1:100

(+)0000 REF. LEVEL CORRESPONDS TO ABSOLUTE REF. (+) 127275

Rev.	Date	Revisions description	Drawn by	Verified by	Reviewed by
5	26/06/2014	Update with detail engeneering	S.Z. 26/06/2014	J. G. 26/06/2014	J. G. 26/06/2014
4	19/06/2014	Update as per mom ACT00010	S.Z. 19/06/2014	J. G. 19/06/2014	J. G. 19/06/2014
3	29/05/2014	Update as per mom ACT00009	S.Z. 29/05/2014	J. G. 29/05/2014	J. G. 29/05/2014
2	28/02/2014	Update with groung level and basic engeneering	S.Z. 28/02/2014	J. G. 28/02/2014	J. G. 28/02/2014
1	31/01/2014	Update as per mom ACT00005	S.Z. 31/01/2014	J. G. 31/01/2014	J. G. 31/01/2014
	05/12/2013	First Issue	S.Z. 05/12/2013	J. G. 05/12/2013	J. G. 05/12/2013

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BARSOO ENG CO.

CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg)
J (Kgm²)

00.1015 - MHS LAYOUT
RMH LAYOUT
SECTION VIEW

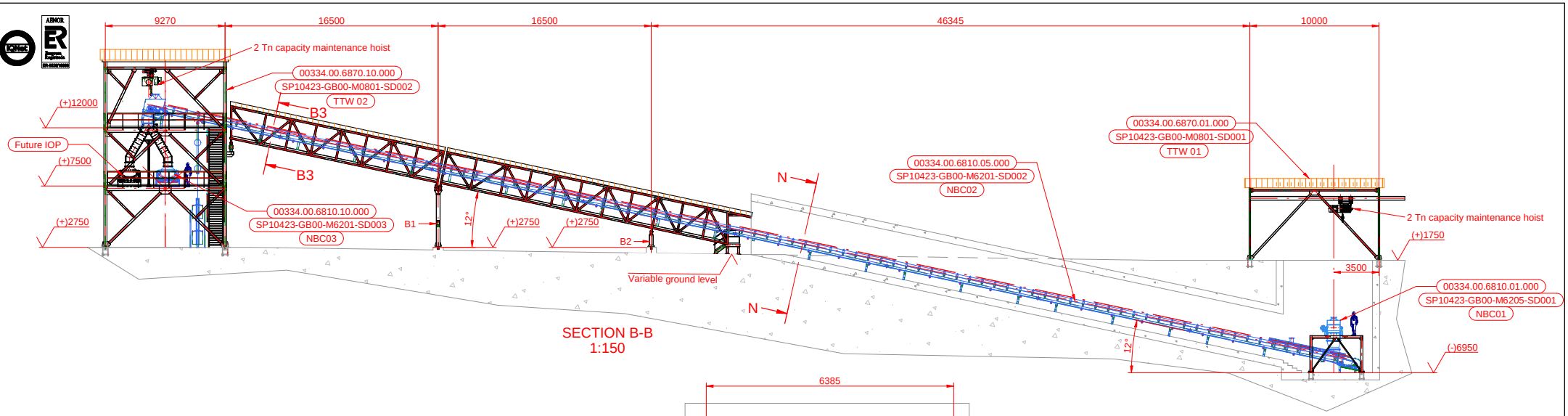
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Nr. of sheets 9
Sheet 2 Follow

SARRALLE Shop number 00334.00.1015.01.000-2
Revision 5

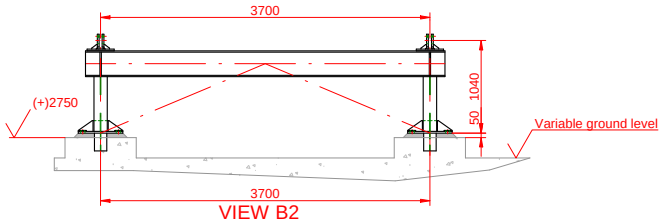
OWNER dwg number
Revision 5

File nr

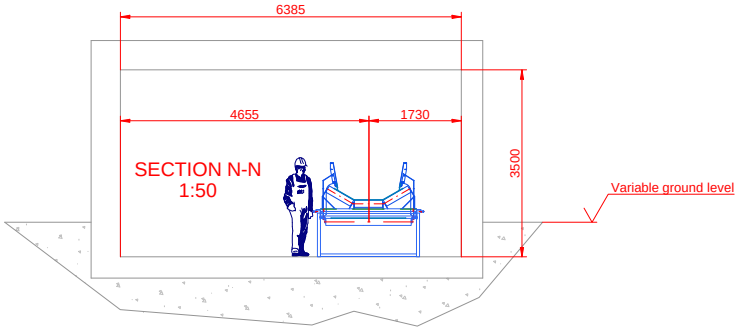
Copyright reserved



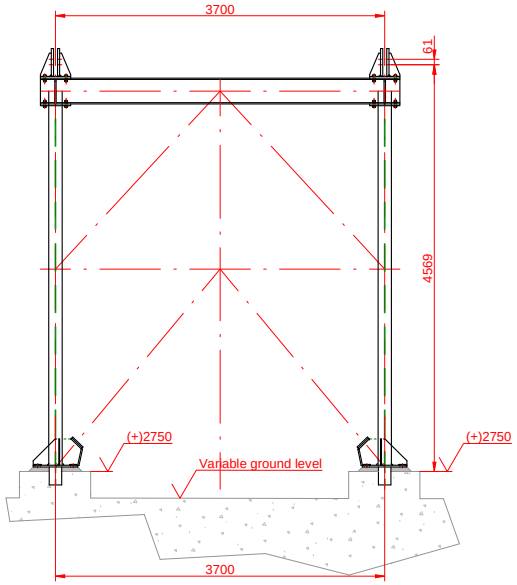
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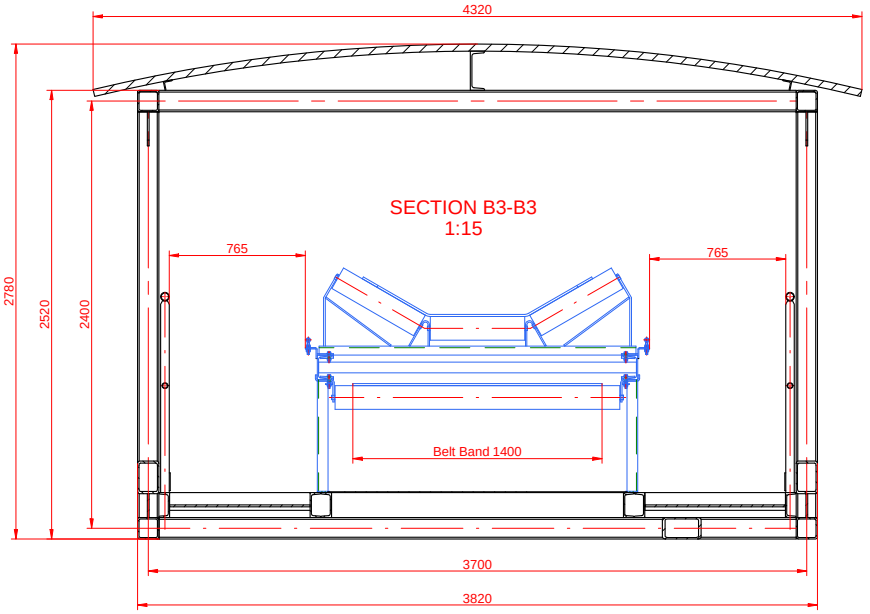
VIEW B2
1:30



SECTION N-N
1:50



VIEW B1
1:30



SECTION B3-B3
1:15

(+)0000 REF. LEVEL CORRESPONDS TO ABSOLUTE REF. (+) 127275

Rev.	Date	Revisions description	Drawn by	Verified by	Reviewed by
5	26/06/2014	Update with detail engeneering	S.Z. 26/06/2014	J. G. 26/06/2014	J. G. 26/06/2014
4	19/06/2014	Update as per mom ACT00010	S.Z. 19/06/2014	J. G. 19/06/2014	J. G. 19/06/2014
3	29/05/2014	Update as per mom ACT00009	S.Z. 29/05/2014	J. G. 29/05/2014	J. G. 29/05/2014
2	28/02/2014	Update with groung level and basic engeneering	S.Z. 28/02/2014	J. G. 28/02/2014	J. G. 28/02/2014
1	31/01/2014	Update as per mom ACT00005	S.Z. 31/01/2014	J. G. 31/01/2014	J. G. 31/01/2014
	05/12/2013	First Issue	S.Z. 05/12/2013	J. G. 05/12/2013	J. G. 05/12/2013

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BARSOO ENG CO.

CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg)
J (Kgm²)

00.1015 - MHS LAYOUT
RMH LAYOUT
SECTION VIEW

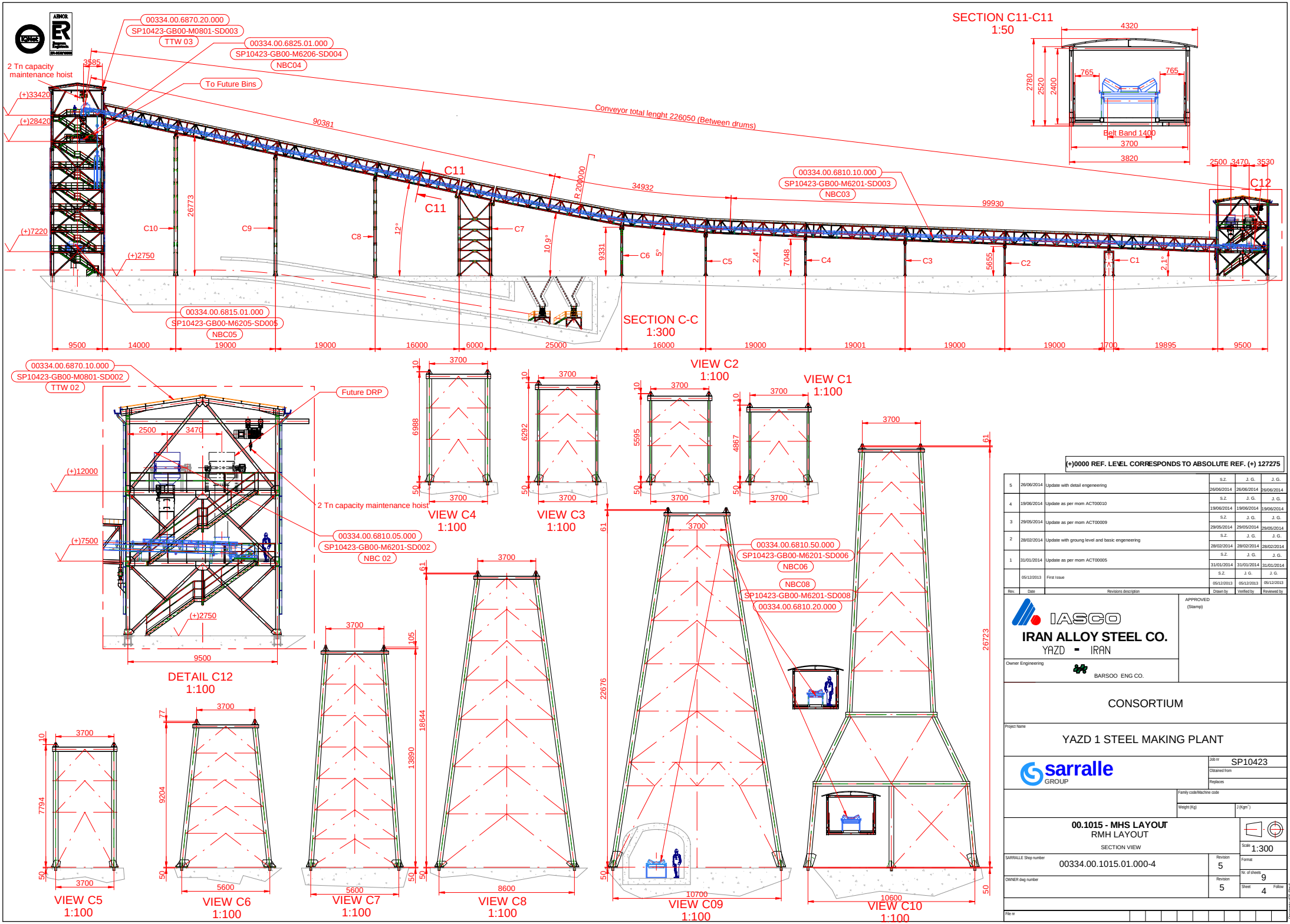
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Nr. of sheets 9
Sheet 3 Follow

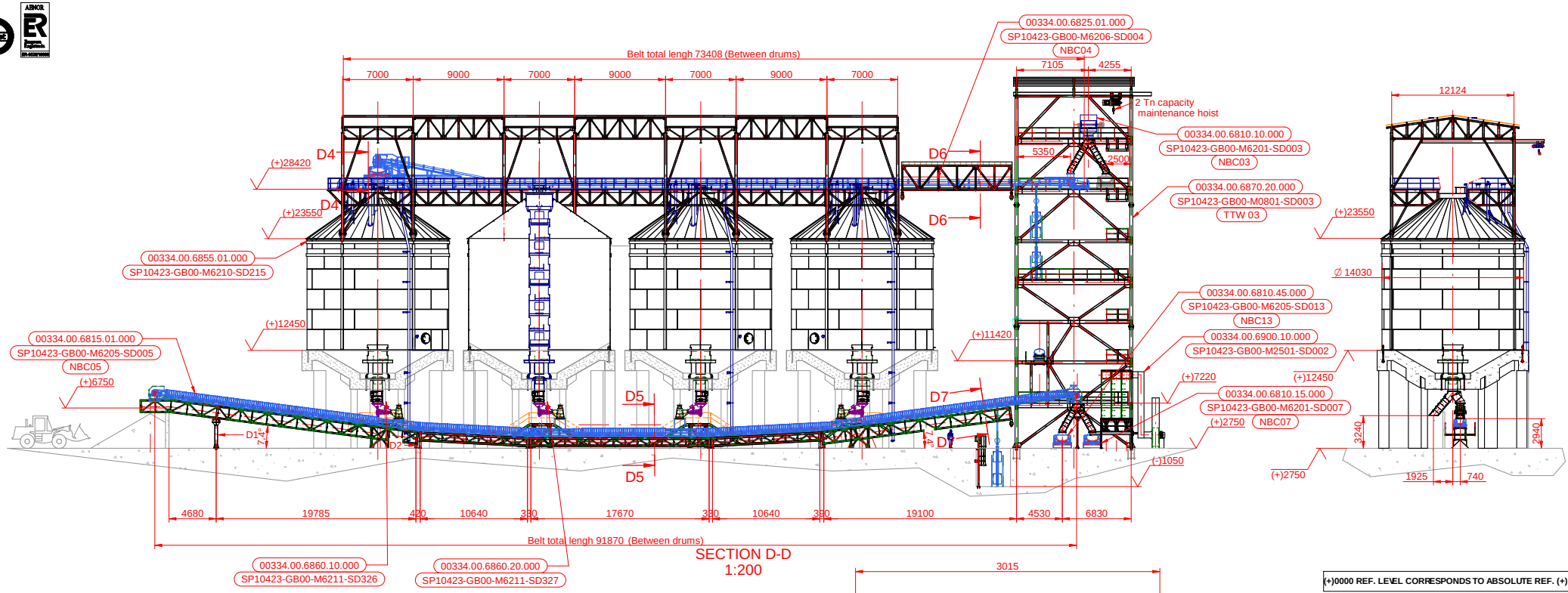
SARRALLE Shop number 00334.00.1015.01.000-3
Revision 5

OWNER dwg number
Revision 5

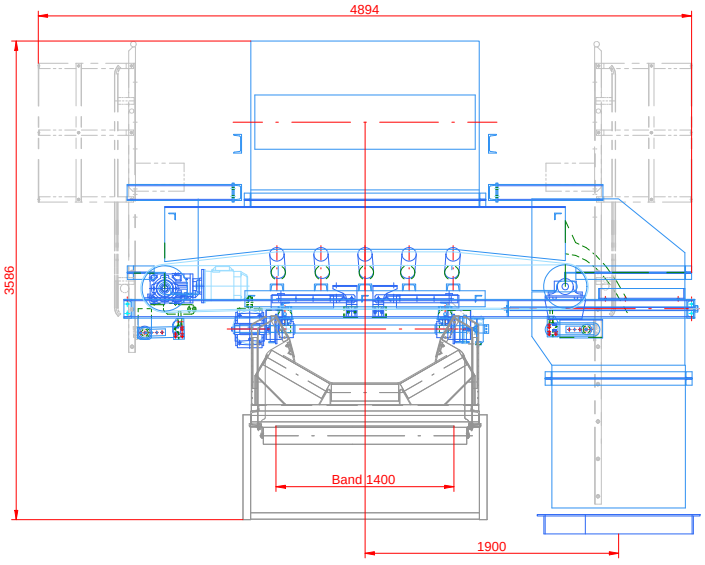
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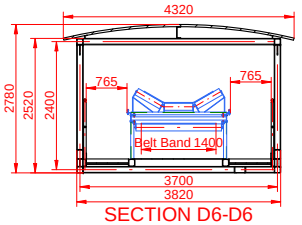

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SP10423-GB00-M0801-SD003
TTW 03
00334.00.6825.01.000
SP10423-GB00-M6206-SD004
NBC04
2 Tn capacity maintenance hoist
To Future Bins
Conveyor total lenght 226050 (Between drums)
90381
34932
99930
R 200000
C11
C12
C10
C9
C8
C7
C6
C5
C4
C3
C2
C1
12°
10.9°
5°
2.4°
2.1°
26773
9331
7048
5655
(+)33420
(+)28420
(+)7220
(+)2750
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NBC05
00334.00.6810.10.000
SP10423-GB00-M6201-SD003
NBC03
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14000
19000
19000
16000
6000
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16000
19000
19001
19000
19000
1700
19895
9500
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765
2780
2520
2400
Belt Band 1400
3700
3820
2500
3470
3530
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SP10423-GB00-M0801-SD002
TTW 02
Future DRP
2500
3470
(+)12000
(+)7500
(+)2750
2 Tn capacity maintenance hoist
00334.00.6810.05.000
SP10423-GB00-M6201-SD002
NBC 02
9500
DETAIL C12
1:100
VIEW C2
1:100
VIEW C1
1:100
VIEW C4
1:100
VIEW C3
1:100
3700
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NBC06
NBC08
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5600
8600
10700
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VIEW C5
1:100
VIEW C6
1:100
VIEW C7
1:100
VIEW C8
1:100
VIEW C09
1:100
VIEW C10
1:100
(+)0000 REF. LEVEL CORRESPONDS TO ABSOLUTE REF. (+) 127275
5 26/06/2014 Update with detail engeneering S.Z. 26/06/2014 J. G. 26/06/2014 J. G. 26/06/2014
4 19/06/2014 Update as per mom ACT00010 S.Z. 19/06/2014 J. G. 19/06/2014 J. G. 19/06/2014
3 29/05/2014 Update as per mom ACT00009 S.Z. 29/05/2014 J. G. 29/05/2014 J. G. 29/05/2014
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1 31/01/2014 Update as per mom ACT00005 S.Z. 31/01/2014 J. G. 31/01/2014 J. G. 31/01/2014
Rev. Date Revisions description Drawn by Verified by Reviewed by
IASCO
IRAN ALLOY STEEL CO.
YAZD - IRAN
APPROVED
(Stamp)
Owner Engineering
BARSOO ENG CO.
CONSORTIUM
Project Name
YAZD 1 STEEL MAKING PLANT
sarralle GROUP
Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg)
J (Kgm²)
00.1015 - MHS LAYOUT
RMH LAYOUT
SECTION VIEW
Scale 1:300
SARRALLE Shop number 00334.00.1015.01.000-4
Revision 5
Format
Nr. of sheets 9
OWNER dwg number
Revision 5
Sheet 4 Follow
File nr



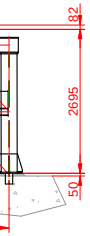
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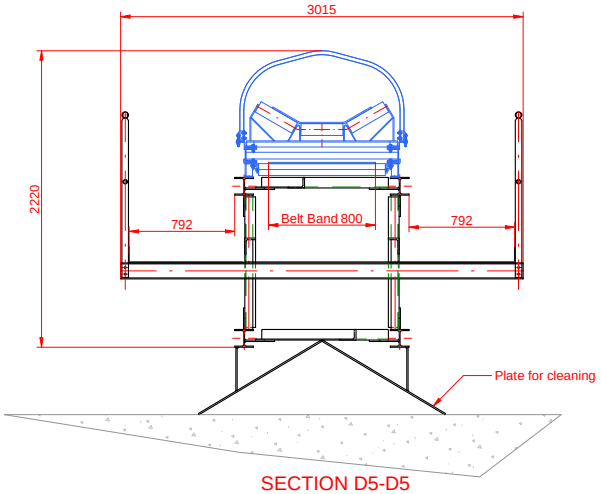
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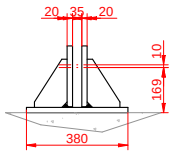
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SECTION D1
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SECTION D5-D5
1:20



VIEW D2
1:10

(+)0000 REF. LEVEL CORRESPONDS TO ABSOLUTE REF. (+) 127275

Rev.	Date	Revisions description	Drawn by	Verified by	Reviewed by
5	26/06/2014	Update with detail engeneering	S.Z. 26/06/2014	J. G. 26/06/2014	J. G. 26/06/2014
4	19/06/2014	Update as per mom ACT00010	S.Z. 19/06/2014	J. G. 19/06/2014	J. G. 19/06/2014
3	29/05/2014	Update as per mom ACT00009	S.Z. 29/05/2014	J. G. 29/05/2014	J. G. 29/05/2014
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1	31/01/2014	Update as per mom ACT00005	S.Z. 31/01/2014	J. G. 31/01/2014	J. G. 31/01/2014
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YAZD - IRAN

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Owner Engineering
BARSOO ENG CO.

CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg)
J (Kgm²)

00.1015 - MHS LAYOUT
RMH LAYOUT
SECTION VIEW

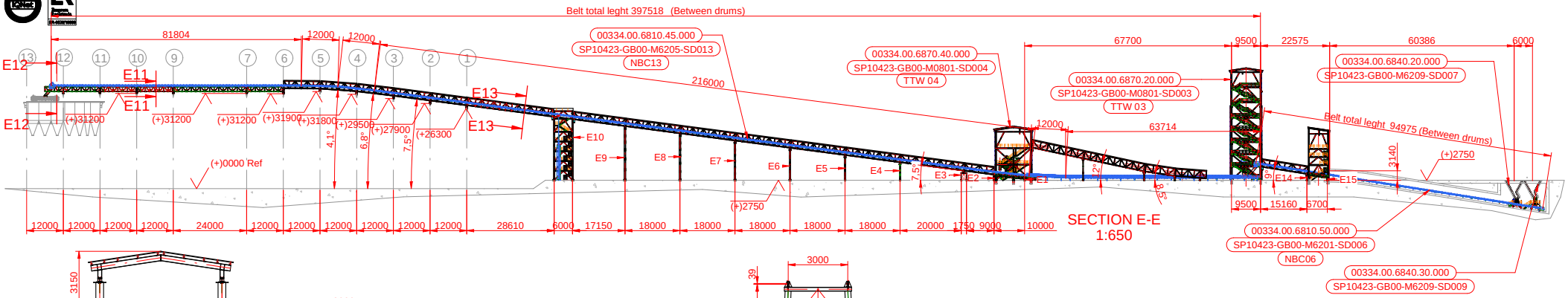
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Format
Nr. of sheets 9
Sheet 5 Follow

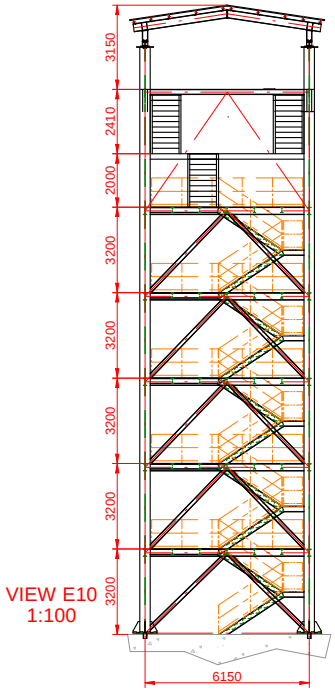
SARRALLE Shop number
00334.00.1015.01.000-5
Revision 5

OWNER dwg number
Revision 5

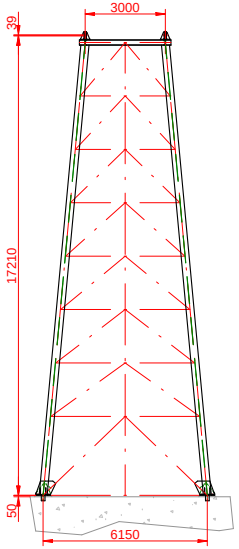
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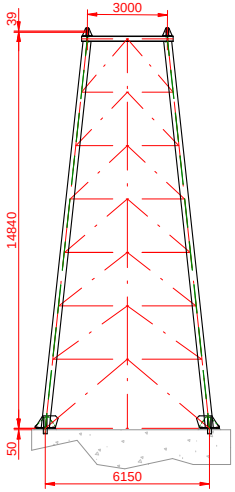




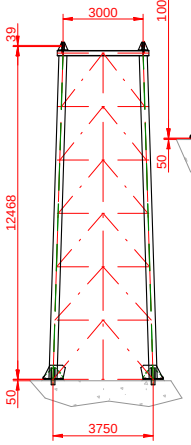
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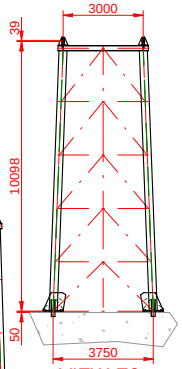
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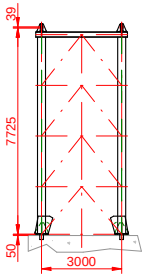
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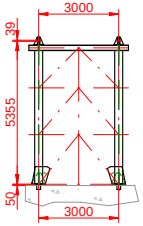
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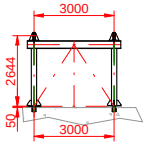
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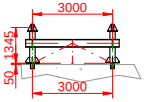
VIEW E5
1:100



VIEW E4
1:100



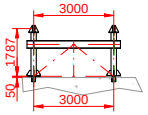
VIEW E3
1:100



VIEW E2
1:100



VIEW E1
1:100



VIEW E14
1:100



VIEW E15
1:50

(+)0000 REF. LEVEL CORRESPONDS TO ABSOLUTE REF. (+) 127275

Rev.	Date	Revisions description	Drawn by	Verified by	Reviewed by
5	26/06/2014	Update with detail engeneering	S.Z. 26/06/2014	J. G. 26/06/2014	J. G. 26/06/2014
4	19/06/2014	Update as per mom ACT00010	S.Z. 19/06/2014	J. G. 19/06/2014	J. G. 19/06/2014
3	29/05/2014	Update as per mom ACT00009	S.Z. 29/05/2014	J. G. 29/05/2014	J. G. 29/05/2014
2	28/02/2014	Update with groung level and basic engeneering	S.Z. 28/02/2014	J. G. 28/02/2014	J. G. 28/02/2014
1	31/01/2014	Update as per mom ACT00005	S.Z. 31/01/2014	J. G. 31/01/2014	J. G. 31/01/2014
	05/12/2013	First Issue	S.Z. 05/12/2013	J. G. 05/12/2013	J. G. 05/12/2013

IASCO
IRAN ALLOY STEEL CO.
YAZD - IRAN

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Owner Engineering
BARSOO ENG CO.

CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg)
J (Kgm²)

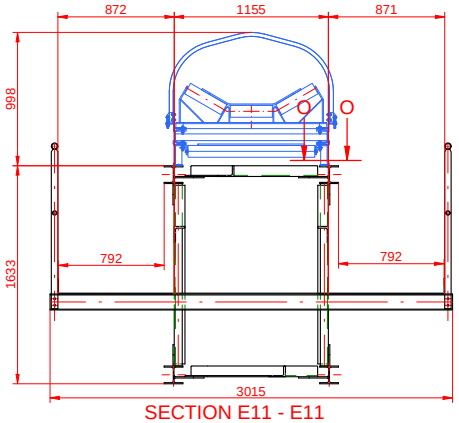
00.1015 - MHS LAYOUT
RMH LAYOUT
SECTION VIEW

Scale 1:650
Format
Nr. of sheets 9
Sheet 6 Follow

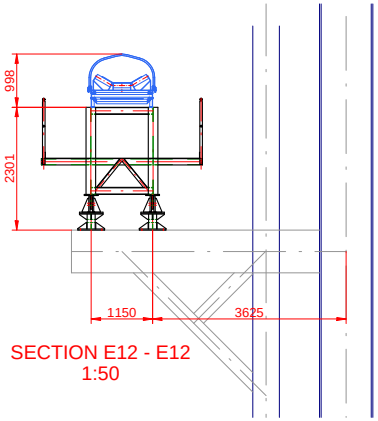
SARRALLE Shop number 00334.00.1015.01.000-6
Revision 5

OWNER dwg number
Revision 5

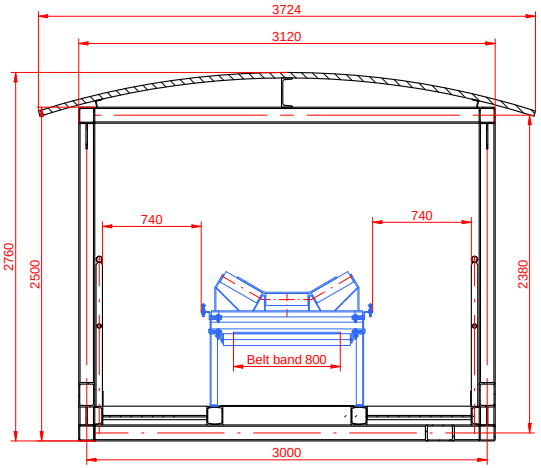
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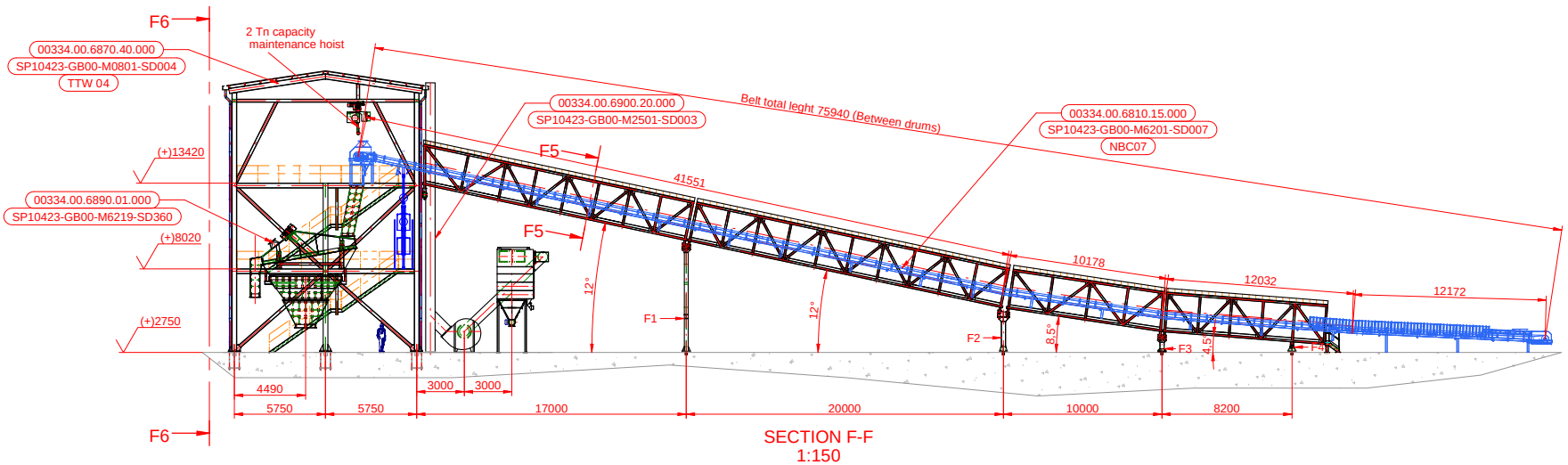
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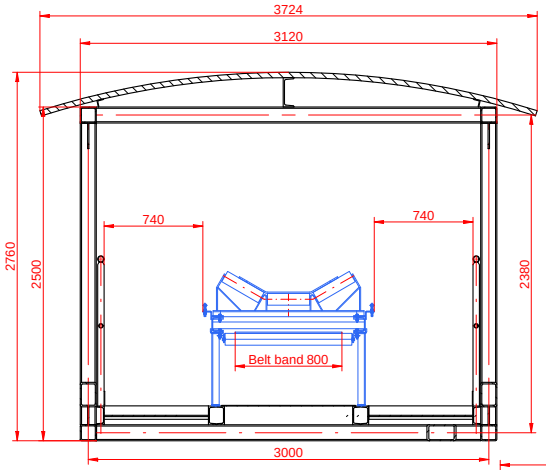
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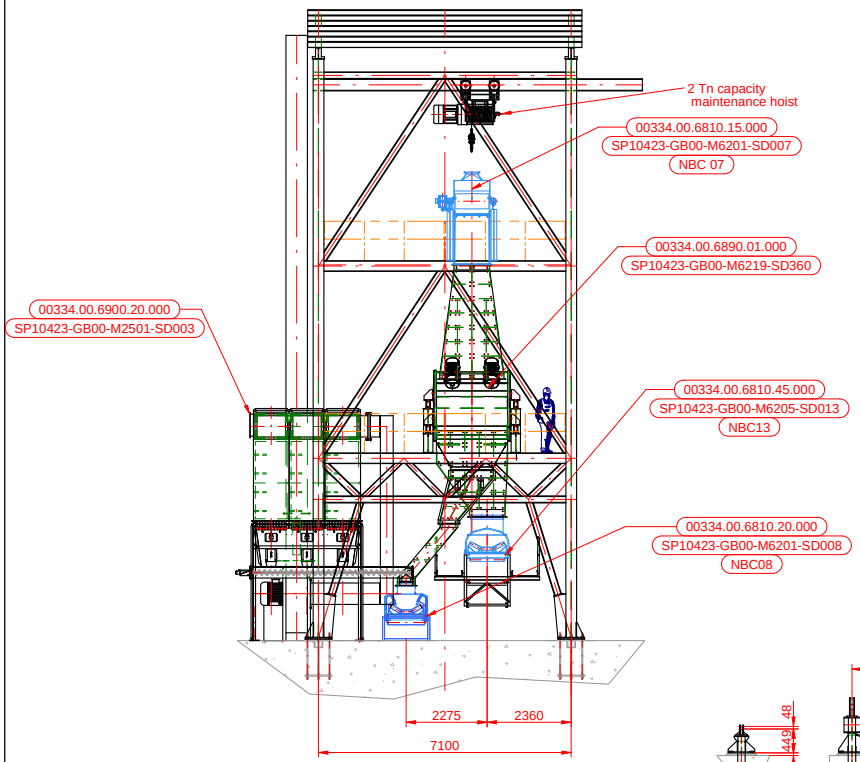
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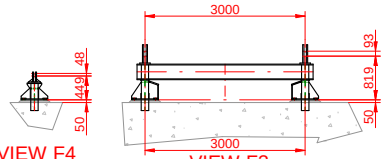
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SECTION F5-F5
1:20

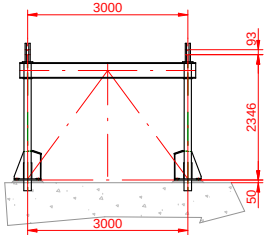


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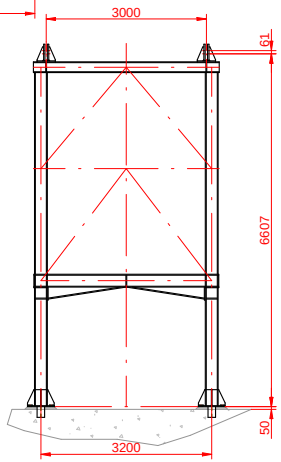


VIEW F4
1:50

VIEW F3
1:50



VIEW F2
1:50



VIEW F1
1:50

(+)0000 REF. LEVEL CORRESPONDS TO ABSOLUTE REF. (+) 127275

Rev.	Date	Revisions description	Drawn by	Verified by	Reviewed by
5	26/06/2014	Update with detail engeneering	S.Z. 26/06/2014	J. G. 26/06/2014	J. G. 26/06/2014
4	19/06/2014	Update as per mom ACT00010	S.Z. 19/06/2014	J. G. 19/06/2014	J. G. 19/06/2014
3	29/05/2014	Update as per mom ACT00009	S.Z. 29/05/2014	J. G. 29/05/2014	J. G. 29/05/2014
2	28/02/2014	Update with groung level and basic engeneering	S.Z. 28/02/2014	J. G. 28/02/2014	J. G. 28/02/2014
1	31/01/2014	Update as per mom ACT00005	S.Z. 31/01/2014	J. G. 31/01/2014	J. G. 31/01/2014
	05/12/2013	First issue	S.Z. 05/12/2013	J. G. 05/12/2013	J. G. 05/12/2013

IASCO
IRAN ALLOY STEEL CO.
YAZD - IRAN

APPROVED
(Stamp)

Owner Engineering
BARSOO ENG CO.

CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg)
J (Kgm²)

00.1015 - MHS LAYOUT
RMH LAYOUT
SECTION VIEW

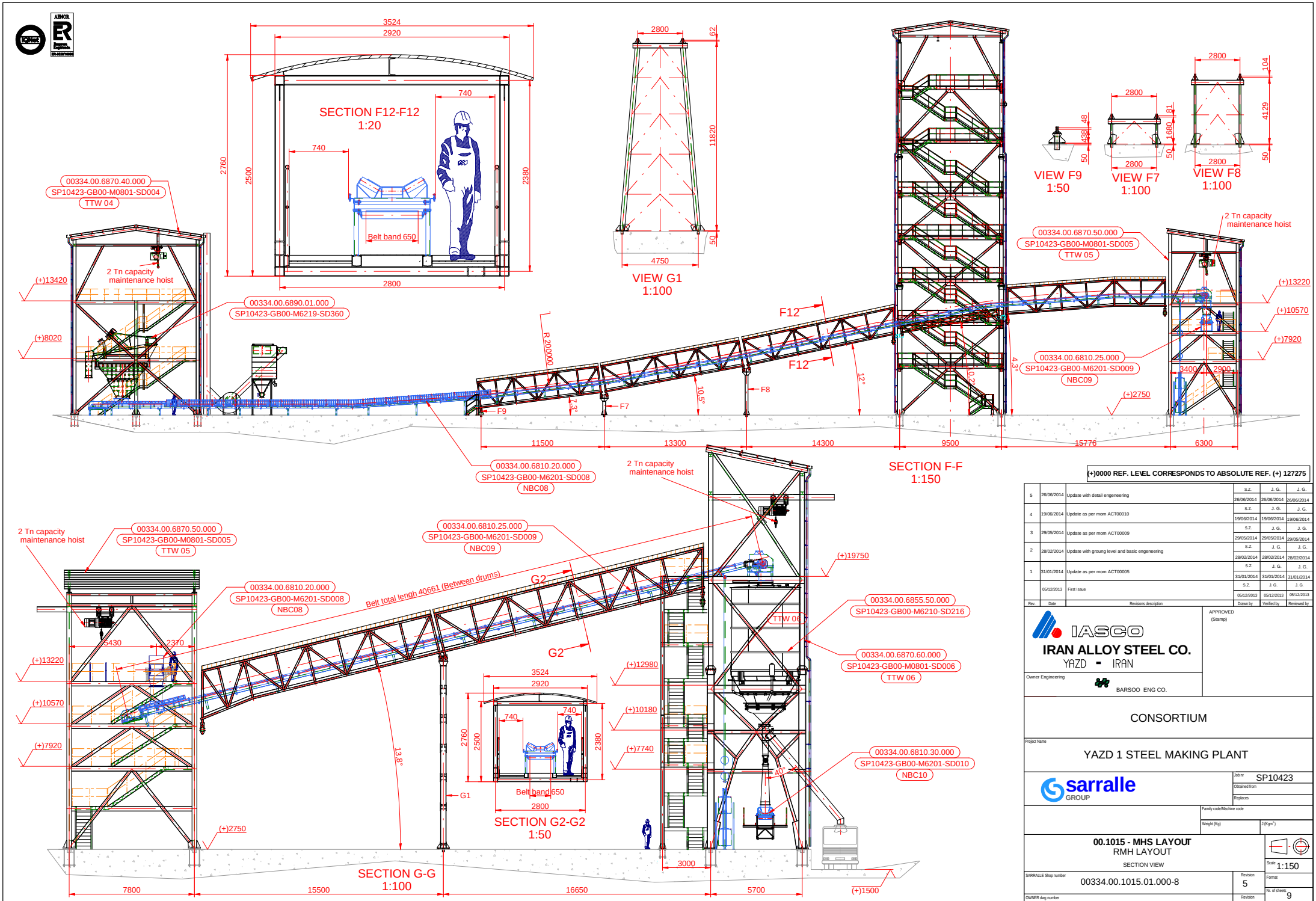
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Nr. of sheets 9
Sheet 7 Follow

SARRALLE Shop number 00334.00.1015.01.000-7
Revision 5

OWNER dwg number
Revision 5

File nr

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Rev.	Date	Revisions description	Drawn by	Verified by	Reviewed by
5	26/06/2014	Update with detail engeneering	S.Z. 26/06/2014	J. G. 26/06/2014	J. G. 26/06/2014
4	19/06/2014	Update as per mom ACT00010	S.Z. 19/06/2014	J. G. 19/06/2014	J. G. 19/06/2014
3	29/05/2014	Update as per mom ACT00009	S.Z. 29/05/2014	J. G. 29/05/2014	J. G. 29/05/2014
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	05/12/2013	First Issue	S.Z. 05/12/2013	J. G. 05/12/2013	J. G. 05/12/2013

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YAZD - IRAN

Owner Engineering
BARSOO ENG CO.

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(Stamp)

CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg) J (Kgm²)

00.1015 - MHS LAYOUT
RMH LAYOUT
SECTION VIEW

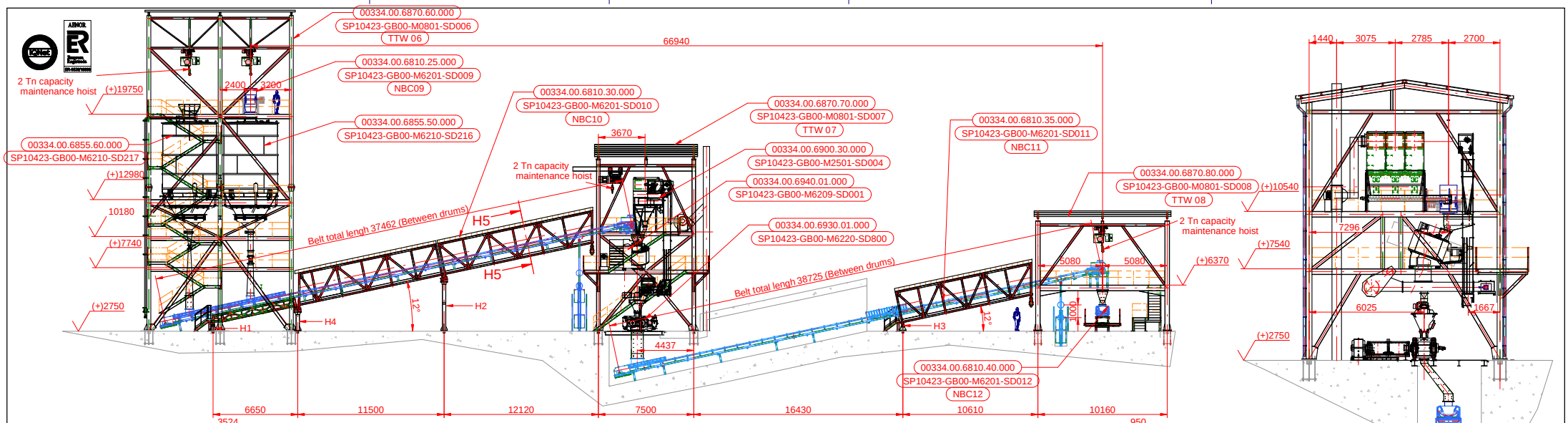
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Nr. of sheets 9
Sheet 8 Follow

SARRALLE Shop number 00334.00.1015.01.000-8
Revision 5

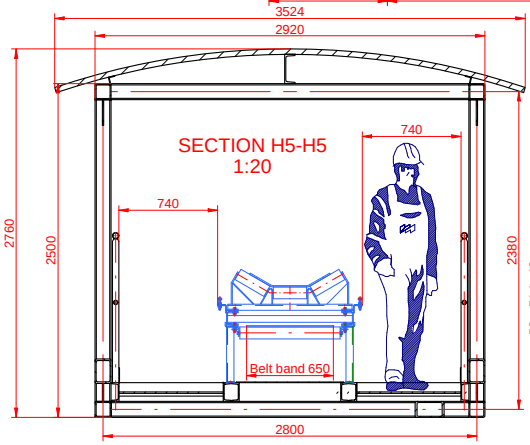
OWNER dwg number
Revision 5

File nr

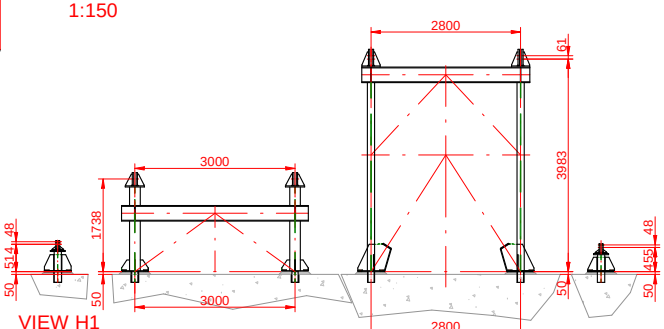
Copyright SARRALLE



SECTION H-H
1:150



SECTION H5-H5
1:20

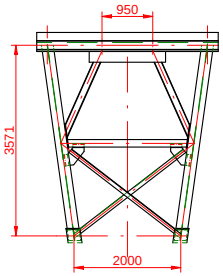


VIEW H1
1:50

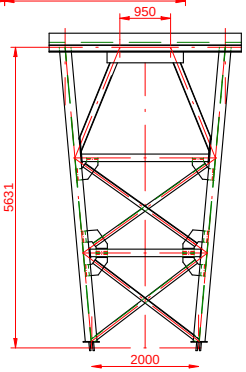
VIEW H4
1:50

VIEW H2
1:50

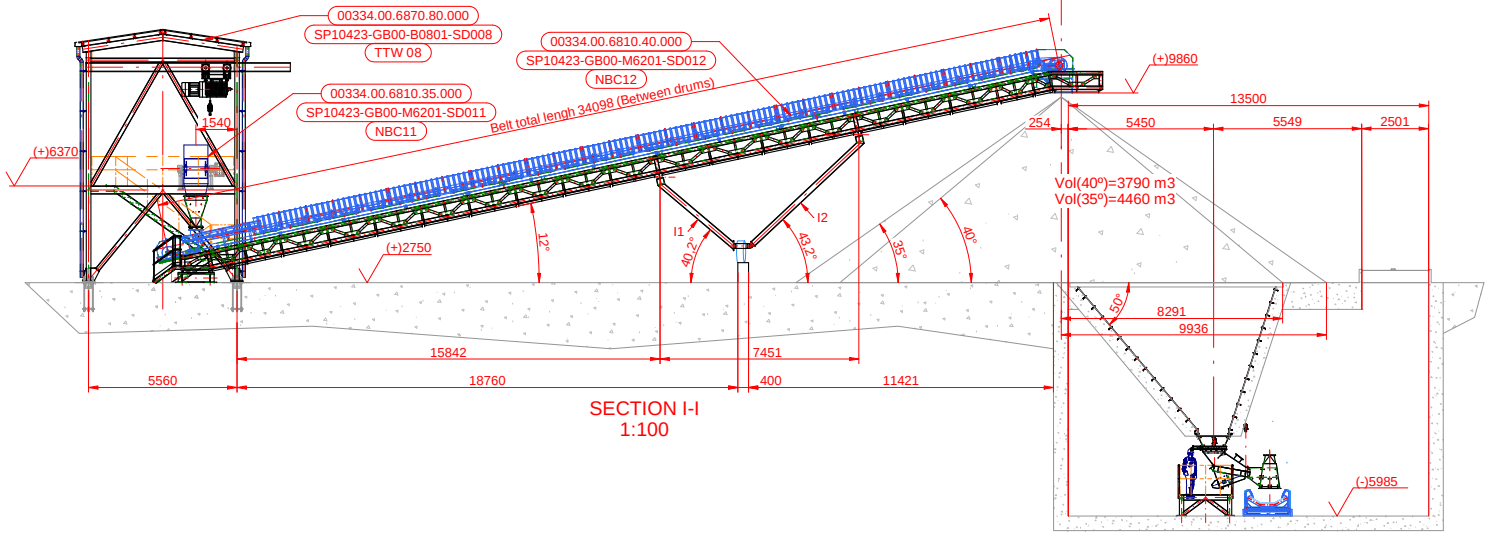
SECTION H3
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VIEW I1
1:50



VIEW I2
1:50



SECTION I-I
1:100

(+)0000 REF. LEVEL CORRESPONDS TO ABSOLUTE REF. (+) 127275

Rev.	Date	Revisions description	Drawn by	Verified by	Reviewed by
5	26/06/2014	Update with detail engeneering	S.Z. 26/06/2014	J. G. 26/06/2014	J. G. 26/06/2014
4	19/06/2014	Update as per mom ACT00010	S.Z. 19/06/2014	J. G. 19/06/2014	J. G. 19/06/2014
3	29/05/2014	Update as per mom ACT00009	S.Z. 29/05/2014	J. G. 29/05/2014	J. G. 29/05/2014
2	28/02/2014	Update with groung level and basic engeneering	S.Z. 28/02/2014	J. G. 28/02/2014	J. G. 28/02/2014
1	31/01/2014	Update as per mom ACT00005	S.Z. 31/01/2014	J. G. 31/01/2014	J. G. 31/01/2014
	05/12/2013	First Issue	S.Z. 05/12/2013	J. G. 05/12/2013	J. G. 05/12/2013

IASCO
IRAN ALLOY STEEL CO.
YAZD - IRAN

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(Stamp)

Owner Engineering
BARSOO ENG CO.

CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg)
J (Kgm²)

00.1015 - MHS LAYOUT
RMH LAYOUT
SECCTION VIEW

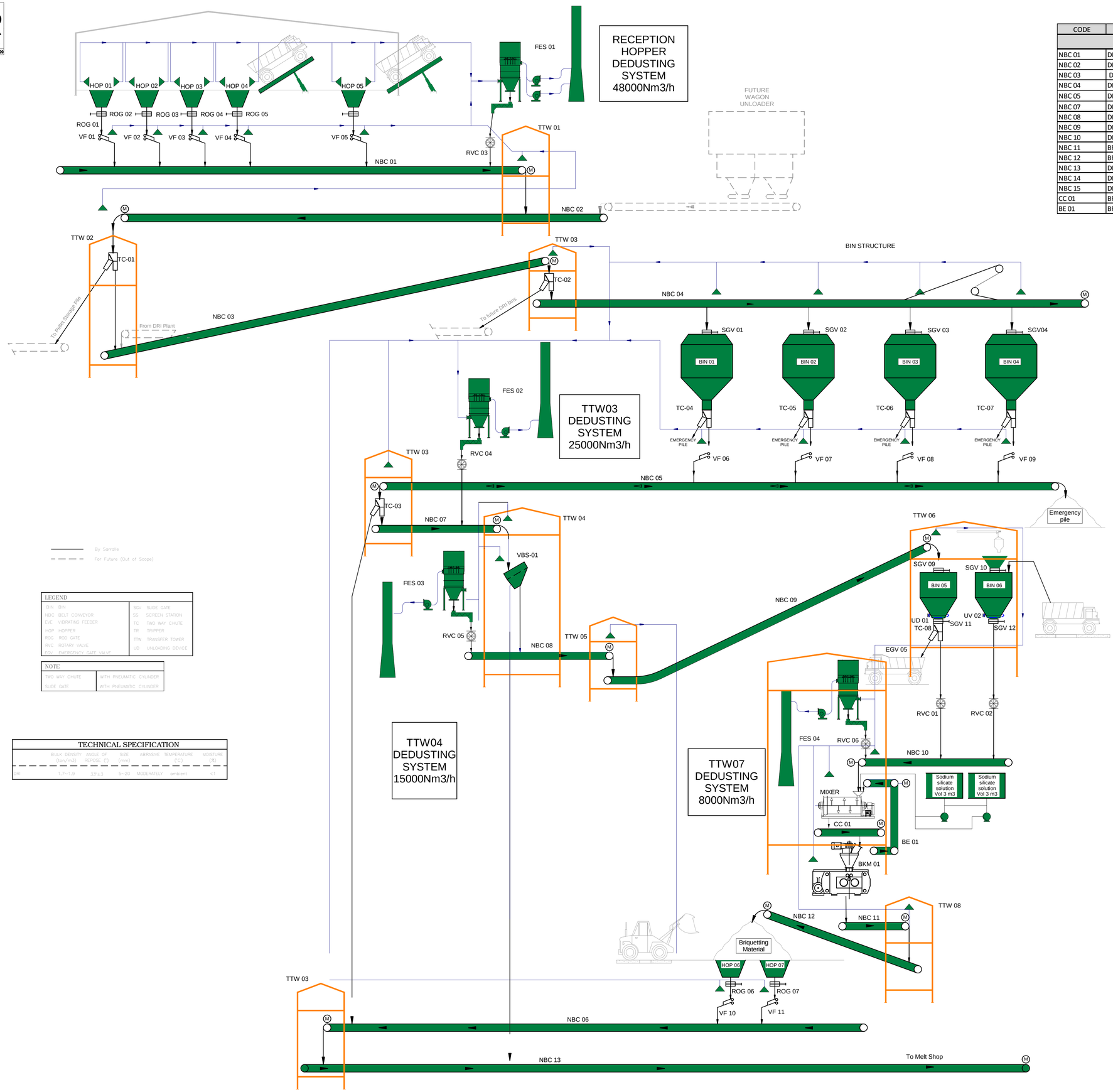
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Nr. of sheets 9
Sheet 9 Follow

SARRALLE Shop number 00334.00.1015.01.000-9
Revision 5

OWNER dwg number
Revision 5

File nr

Drawing size A1 (ISO 5457:1999)



By Sarralle

For Future (Out of Scope)

LEGEND			
BIN	BIN	SGV	SLIDE GATE
NBC	BELT CONVEYOR	SS	SCREEN STATION
EVE	VIBRATING FEEDER	TC	TWO WAY CHUTE
HOP	HOPPER	TR	TRIPPER
ROG	ROD GATE	TTW	TRANSFER TOWER
RVC	ROTARY VALVE	UD	UNLOADING DEVICE
EGV	EMERGENCY GATE VALVE		

NOTE	
TWO WAY CHUTE	WITH PNEUMATIC CYLINDER
SLIDE GATE	WITH PNEUMATIC CYLINDER

TECHNICAL SPECIFICATION						
	BULK DENSITY (ton/m3)	ANGLE OF REPOSE (°)	SIZE (mm)	ABRASIVE	TEMPERATURE (°C)	MOISTURE (%)
DRI	1,7~1,9	33°±3	5~20	MODERATELY	ambient	<1

CODE	EQUIPMENT	CAPACITY (t/h)	LENGTH (m)	WIDTH (mm)	GRAIN SIZE (mm)
CONVEYORS					
NBC 01	DRI BELT CONVEYOR	600	52	800	6,4 - 25
NBC 02	DRI BELT CONVEYOR	1500	95,2	1400	6,4 - 25
NBC 03	DRI BELT CONVEYOR	1500	226,6	1400	6,4 - 25
NBC 04	DRI TRIPPER BELT CONVEYOR	1500	73,4	1400	6,4 - 25
NBC 05	DRI REVERSIBLE BELT CONVEYOR	500	94,26	800	6,4 - 25
NBC 07	DRI BELT CONVEYOR	500	75,8	800	6,4 - 25
NBC 08	DRI FINES BELT CONVEYOR	20	104,6	650	0 - 6,3
NBC 09	DRI FINES BELT CONVEYOR	20	39,6	650	0 - 6,3
NBC 10	DRI FINES BELT CONVEYOR	20	42,2	650	0 - 6,3
NBC 11	BRIQUETTE STORAGE CONVEYOR	20	31,7	650	44x38x20
NBC 12	BRIQUETTE STORAGE CONVEYOR	20	34,7	650	44x38x20
NBC 13	DRI / BRIQUETTE BELT CONVEYOR	500	486	800	44x38x20
NBC 14	DRI FINES OR LIME BELT CONVEYOR	20	4	650	0 - 6,3
NBC 15	DRI FINES OR LIME BELT CONVEYOR	20	4	650	0 - 6,3
CC 01	BRIQUETTING MIX CHAIN CONVEYOR	22	6	400	0-6,3
BE 01	BRIQUETYTING MIX BUCKET ELEVATOR	2	11,8	400	0-6,3

CODE	EQUIPMENT	QUANTITY	CAPACITY (m3)
HOPPERS&BINS			
BIN 01 - 04	DRI BIN	4	2000
BIN - 05	DRI FINES BIN	1	80
BIN - 06	LIME BIN	1	80
HOP 01 - 03	TRUCK UNLOADING HOPPER	3	30
HOP 04 - 05	HYDRAULIC TRUCK UNLOADING HOPPER	2	30
HOP 06 - 07	HBI LOADING HOPPER	1	30

CODE	EQUIPMENT	QUANTITY	CAPACITY (t/h)
MACHINES			
VF 01 - 05	FIXED SPEED VIBRO FEEDER	5	300
VF 06 - 09	VVVF VIBRO FEEDER	4	300
VF 10 - 11	VVVF VIBRO FEEDER	2	300
VBS 01	VIBRO SCREENER	1	500
MIXER	MIXER	1	20
BKM 01	COLD BRIQUETTING MACHINE	1	16

Rev.	Date	Revisions description	Drawn by	Checked by	Approved by
3	26/05/2014	UPDATE AS PER MOM ACT 00009	S.Z. 26/05/2014	J. G. 26/05/2014	J. G. 26/05/2014
2	30/01/2014	UPTADE AS PER MOM ACT 00005	U.L. 30/01/2014	J. G. 30/01/2014	J. G. 30/01/2014
1	05/12/2013	First Issue	S.Z. 05/12/2013	J. G. 05/12/2013	J. G. 05/12/2013

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IRAN ALLOY STEEL CO.

YAZD - IRAN

Owner Engineering

BARSOO ENG CO.

APPROVED (Stamp)

CONSORTIUM

Project Name

YAZD 1 STEEL MAKING PLANT

sarralle

Job nr SP10423

Obtained from

Replaces

Family code/Machine code

Weight (Kg) | J (Kgm²)

00.6284 - MHS TECHNOLOGICAL P&I DIAGRAM

RMH - TECHNOLOGICAL PFD

RMH GENERAL SCHEME

Scale 1:1

Format A1

Nr. of sheets 1

SARRALLE Shop number 00334.00.6284.01.000

Revision 03

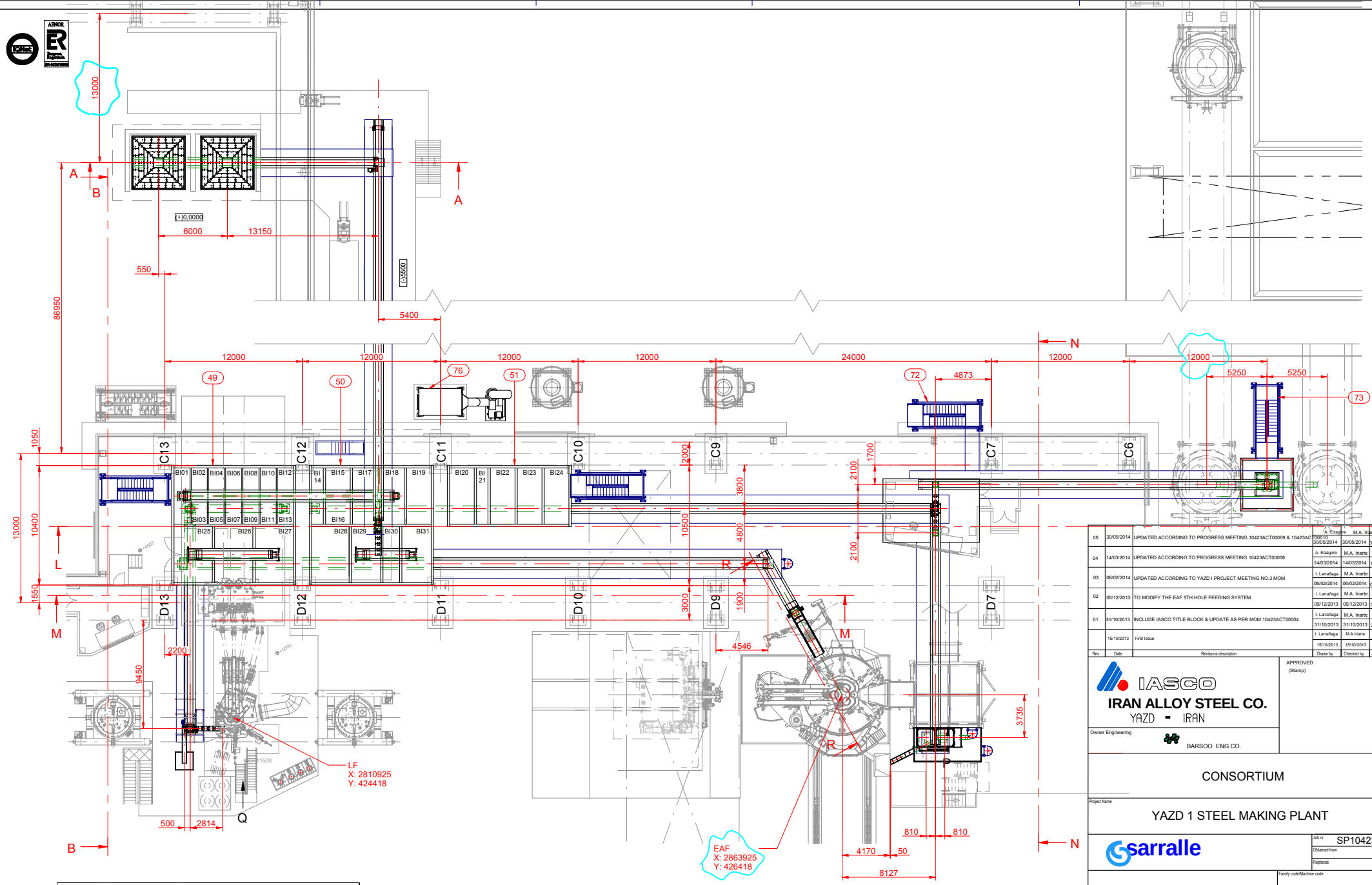
OWNER dwg number SP10423-GB00-K0100-SD002-03_001

Revision 03

Sheet 1 Follow

SP10423-GB00-K0100-SD002-03_001

Documento nº20 /Rev.6



FLUID DISTRIBUTION		
ITEM	PART NUMBER	DESCRIPTION
3	10423.3055.01.000	MHS PNEUMATICS
4	10423.3062.01.000	MHS DRI SILOS INERTIZING SYSTEM
9	10423.6282.01.000	MHS PNEUMATIC P&I DIAGRAM
78	10423.6282.02.000	MHS NITROGEN P&I DIAGRAM
10	10423.6284.01.000	MHS TECHNOLOGICAL P&I DIAGRAM
79	10423.6289.01.000	FES TECHNOLOGICAL P&I DIAGRAM

ELECTRIC CONFIGURATION		
ITEM	PART NUMBER	DESCRIPTION
11	10423.6305.01.000	MHS - PLC APPLICATION SOFTWARE
12	10423.6405.01.000	MHS - HMI APPLICATION SOFTWARE
13	10423.6515.01.000	MHS - CABLES & ERECTION MATERIAL
80	10423.6995.01.000	MHS CONTROL ELEMENTS

DOCUMENTATION		
ITEM	PART NUMBER	DESCRIPTION
5	10423.6075.01.000	MHS I/O PLC SCHEMES
6	10423.6105.01.000	MHS SINGLE LINE DIAGRAM
7	10423.6105.02.000	MHS ELECTRICAL SCHEMES
8	10423.6205.01.000	MHS SENSOR & MOTOR LIST
14	10423.6525.01.000	MHS FUNCTIONAL DESRIPTION

Rev.	Date	Revisions description	Drawn by	Checked by	Approved by
05	30/05/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00009 & 10423AC T00010	A. Elzagire	M.A. Iriarte	M.A. Iriarte
			30/05/2014	30/05/2014	30/05/2014
04	14/03/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00006	A. Elzagire	M.A. Iriarte	M.A. Iriarte
			14/03/2014	14/03/2014	14/03/2014
03	06/02/2014	UPDATED ACCORDING TO YAZD I PROJECT MEETING NO.3 MOM	I. Larrañaga	M.A. Iriarte	M.A. Iriarte
			06/02/2014	06/02/2014	06/02/2014
02	05/12/2013	TO MODIFY THE EAF 5TH HOLE FEEDING SYSTEM	I. Larrañaga	M.A. Iriarte	M.A. Iriarte
			05/12/2013	05/12/2013	05/12/2013
01	31/10/2013	INCLUDE IASCO TITLE BLOCK & UPDATE AS PER MOM 10423ACT00004	I. Larrañaga	M.A. Iriarte	M.A Iriarte
			31/10/2013	31/10/2013	31/10/2013
	15/10/2013	First Issue	I. Larrañaga	M.A Iriarte	M.A Iriarte
			15/10/2013	15/10/2013	15/10/2013

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Project Name
YAZD 1 STEEL MAKING PLANT

sarralle

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg) 1524.691
J (Kgm²)

1015 - MHS LAYOUT
INSIDE STEEL PLANT
TOP VIEW

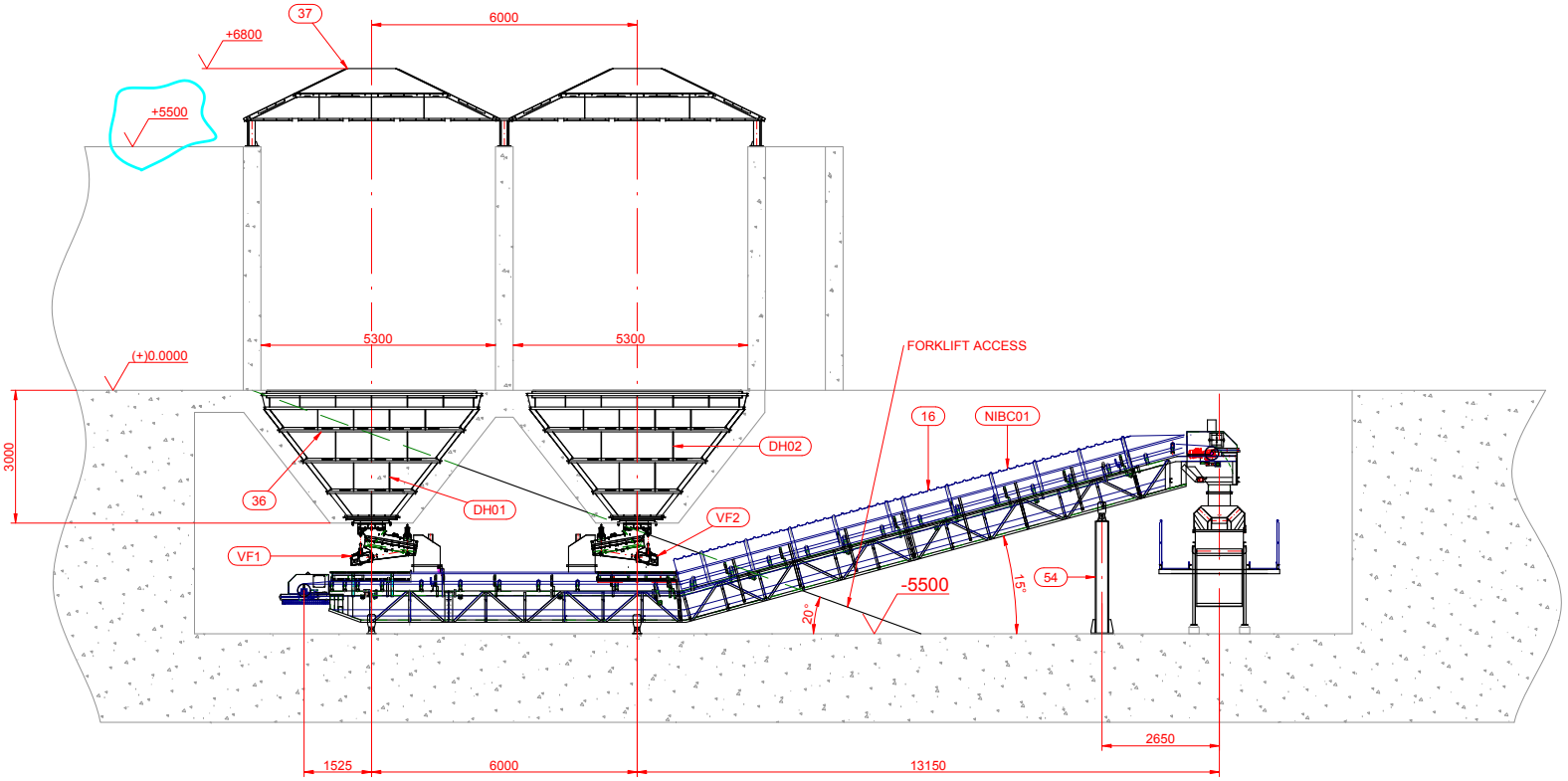
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Nr. of sheets 6
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SARRALLE Shop number 10423.1015.01.000
Revision 05

OWNER dwg number
Revision 05

File nr

Issued for construction



SECTION A-A
1:60

Rev.	Date	Revisions description	Drawn by	Checked by	Approved by
05	30/05/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00009 & 10423ACT00010	A. Elzagire 30/05/2014	M.A. Iriarte 30/05/2014	M.A. Iriarte 30/05/2014
04	14/03/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00006	A. Elzagire 14/03/2014	M.A. Iriarte 14/03/2014	M.A. Iriarte 14/03/2014
03	06/02/2014	UPDATED ACCORDING TO YAZD I PROJECT MEETING NO.3 MOM	I. Larrañaga 06/02/2014	M.A. Iriarte 06/02/2014	M.A. Iriarte 06/02/2014
02	05/12/2013	TO MODIFY THE EAF 5TH HOLE FEEDING SYSTEM	I. Larrañaga 05/12/2013	M.A. Iriarte 05/12/2013	M.A. Iriarte 05/12/2013
01	31/10/2013	INCLUDE IASCO TITLE BLOCK & UPDATE AS PER MOM 10423ACT00004	I. Larrañaga 31/10/2013	M.A.Iriarte 31/10/2013	M.A Iriarte 31/10/2013
	15/10/2013	First Issue	I. Larrañaga 15/10/2013	M.A.Iriarte 15/10/2013	M.A Iriarte 15/10/2013

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Job nr SP10423
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Replaces
Family code/Machine code
Weight (Kg) 1524.691
J (Kgm²)

1015 - MHS LAYOUT
INSIDE STEEL PLANT
DETAILS

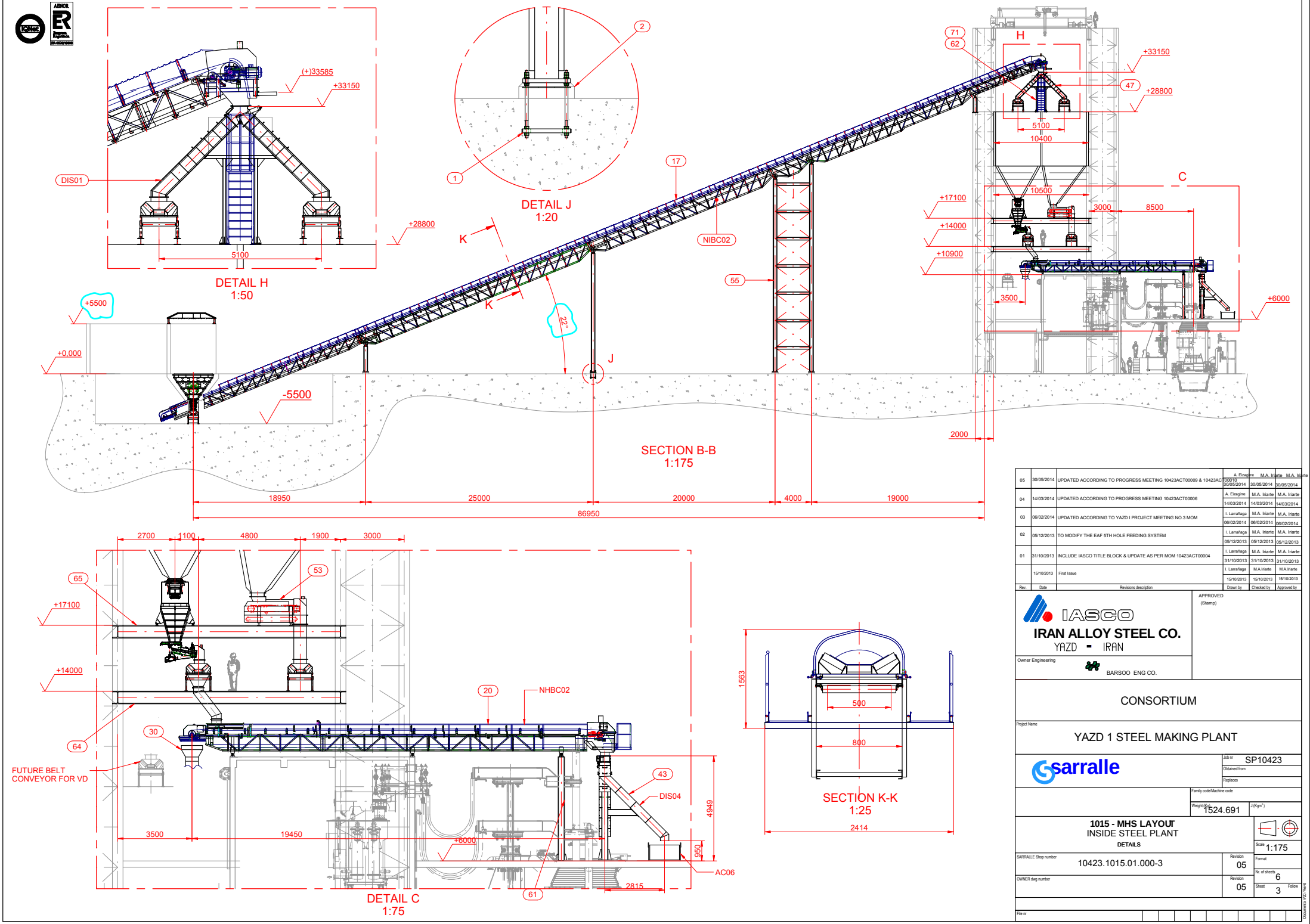
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Nr. of sheets 6
Sheet 2 Follow

SARRALLE Shop number 10423.1015.01.000-2
Revision 05

OWNER dwg number
Revision 05

File nr

Drawing not to be scaled



Rev.	Date	Revisions description	Drawn by	Checked by	Approved by
05	30/05/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00009 & 10423ACT00010	A. Elzagire 30/05/2014	M.A. Iriarte 30/05/2014	M.A. Iriarte 30/05/2014
04	14/03/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00006	A. Elzagire 14/03/2014	M.A. Iriarte 14/03/2014	M.A. Iriarte 14/03/2014
03	06/02/2014	UPDATED ACCORDING TO YAZD I PROJECT MEETING NO.3 MOM	I. Larrañaga 06/02/2014	M.A. Iriarte 06/02/2014	M.A. Iriarte 06/02/2014
02	05/12/2013	TO MODIFY THE EAF 5TH HOLE FEEDING SYSTEM	I. Larrañaga 05/12/2013	M.A. Iriarte 05/12/2013	M.A. Iriarte 05/12/2013
01	31/10/2013	INCLUDE IASCO TITLE BLOCK & UPDATE AS PER MOM 10423ACT00004	I. Larrañaga 31/10/2013	M.A. Iriarte 31/10/2013	M.A. Iriarte 31/10/2013
	15/10/2013	First Issue	I. Larrañaga 15/10/2013	M.A.Iriarte 15/10/2013	M.A Iriarte 15/10/2013

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CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle

Job nr SP10423
Obtained from
Replaces
Family code/Machine code
Weight (Kg) 1524.691
J (Kgm²)

1015 - MHS LAYOUT
INSIDE STEEL PLANT
DETAILS

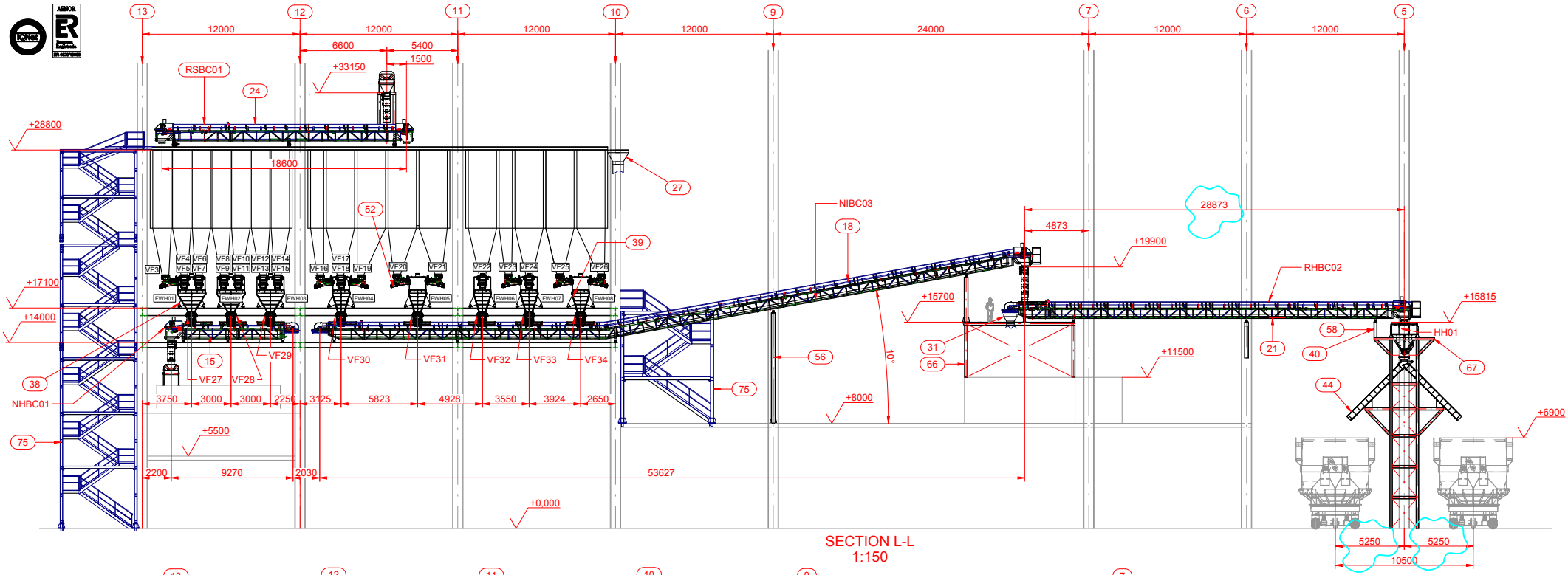
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SARRALLE Shop number 10423.1015.01.000-3
Revision 05

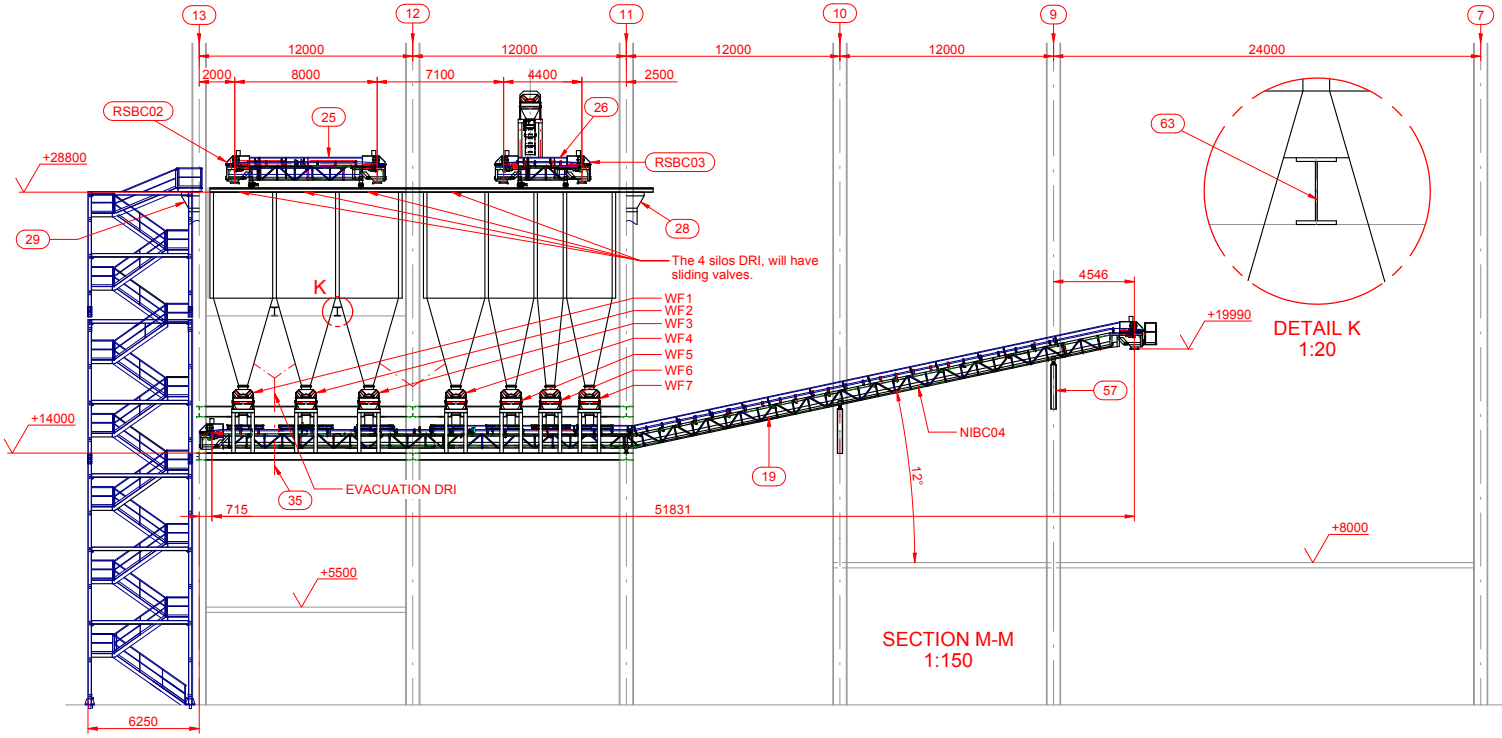
OWNER dwg number
Revision 05

File nr

Issued for construction



SECTION L-L
1:150



SECTION M-M
1:150

DETAIL K
1:20

Rev.	Date	Revisions description	Drawn by	Checked by	Approved by
05	30/05/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00009 & 10423AC00010	A. Elzagire	M.A. Iriarte	M.A. Iriarte
			30/05/2014	30/05/2014	30/05/2014
04	14/03/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00006	A. Elzagire	M.A. Iriarte	M.A. Iriarte
			14/03/2014	14/03/2014	14/03/2014
03	06/02/2014	UPDATED ACCORDING TO YAZD I PROJECT MEETING NO.3 MOM	I. Larrañaga	M.A. Iriarte	M.A. Iriarte
			06/02/2014	06/02/2014	06/02/2014
02	05/12/2013	TO MODIFY THE EAF 5TH HOLE FEEDING SYSTEM	I. Larrañaga	M.A. Iriarte	M.A. Iriarte
			05/12/2013	05/12/2013	05/12/2013
01	31/10/2013	INCLUDE IASCO TITLE BLOCK & UPDATE AS PER MOM 10423ACT00004	I. Larrañaga	M.A. Iriarte	M.A. Iriarte
			31/10/2013	31/10/2013	31/10/2013
	15/10/2013	First Issue	I. Larrañaga	M.A.Iriarte	M.A Iriarte
			15/10/2013	15/10/2013	15/10/2013

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sarralle

Job nr SP10423
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1015 - MHS LAYOUT
INSIDE STEEL PLANT
DETAILS

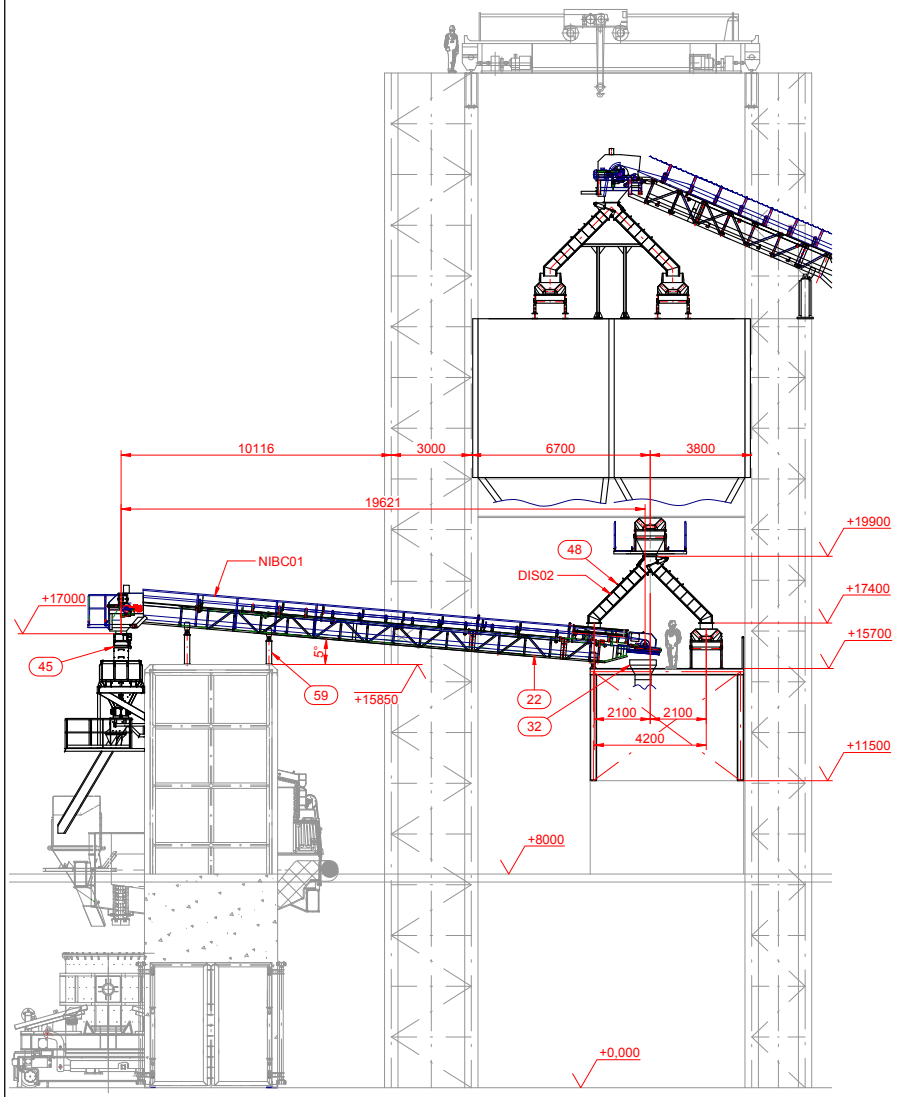
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SARRALLE Shop number 10423.1015.01.000-4
Revision 05

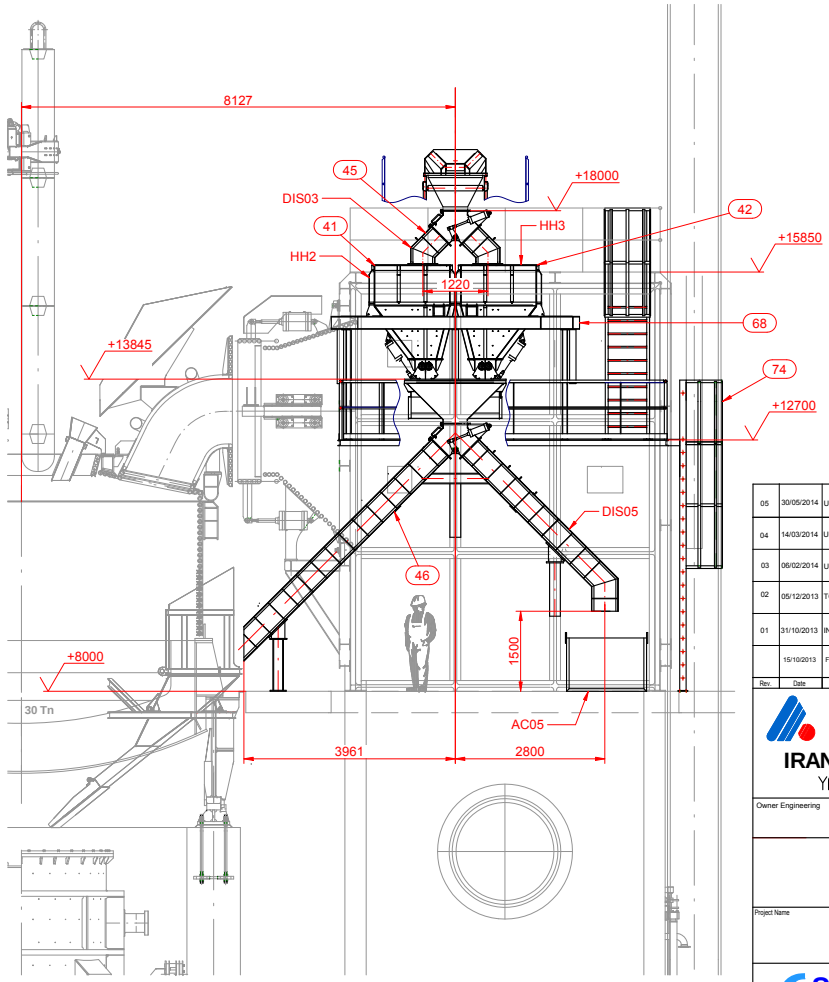
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Revision 05

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SECTION N-N
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Rev.	Date	Revisions description	Drawn by	Checked by	Approved by
05	30/05/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00009 & 10423ACT00010	A. Elzagire 30/05/2014	M.A. Iriarte 30/05/2014	M.A. Iriarte 30/05/2014
04	14/03/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00006	A. Elzagire 14/03/2014	M.A. Iriarte 14/03/2014	M.A. Iriarte 14/03/2014
03	06/02/2014	UPDATED ACCORDING TO YAZD I PROJECT MEETING NO.3 MOM	I. Larrañaga 06/02/2014	M.A. Iriarte 06/02/2014	M.A. Iriarte 06/02/2014
02	05/12/2013	TO MODIFY THE EAF 5TH HOLE FEEDING SYSTEM	I. Larrañaga 05/12/2013	M.A. Iriarte 05/12/2013	M.A. Iriarte 05/12/2013
01	31/10/2013	INCLUDE IASCO TITLE BLOCK & UPDATE AS PER MOM 10423ACT00004	I. Larrañaga 31/10/2013	M.A.Iriarte 31/10/2013	M.A Iriarte 31/10/2013
	15/10/2013	First Issue	I. Larrañaga 15/10/2013	M.A.Iriarte 15/10/2013	M.A Iriarte 15/10/2013

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1015 - MHS LAYOUT
INSIDE STEEL PLANT
DETAILS

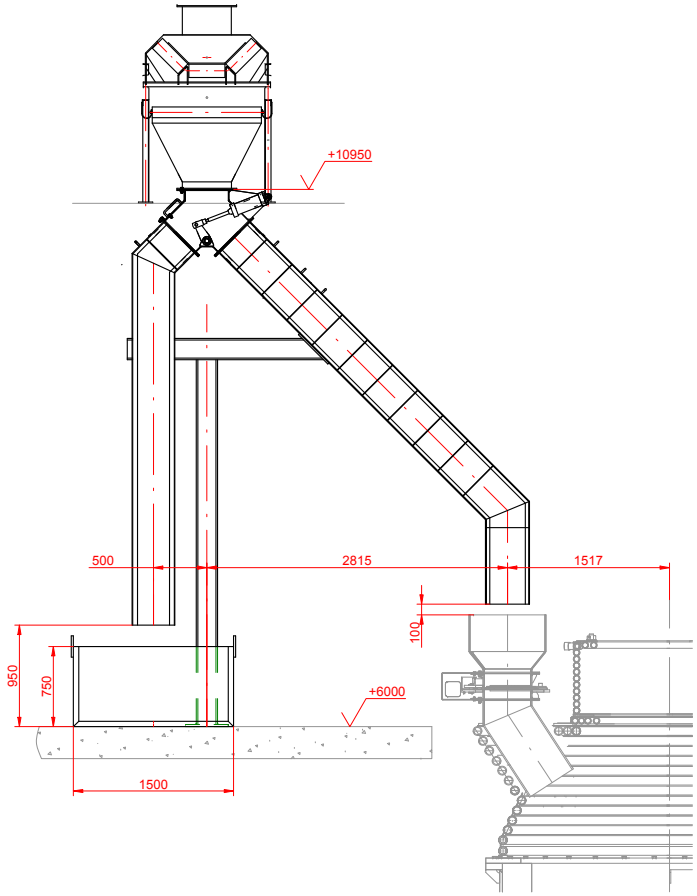
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SARRALLE Shop number 10423.1015.01.000-5
Revision 05

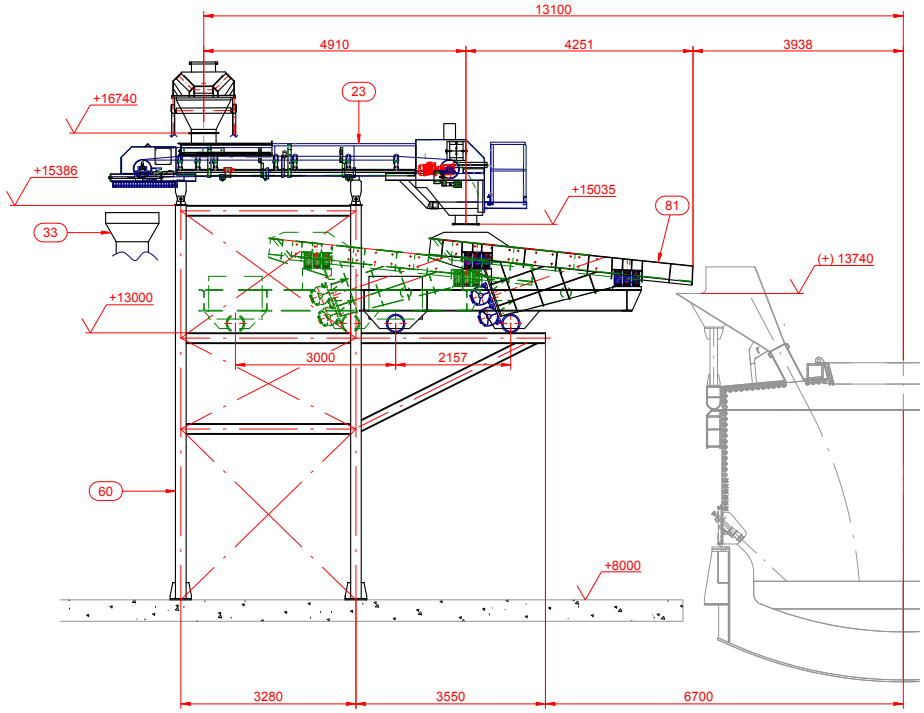
OWNER dwg number
Revision 05

File nr

Document type drawing



VIEW Q
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SECTION R-R
1:50

Rev.	Date	Revisions description	Drawn by	Checked by	Approved by
05	30/05/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00009 & 10423ACT00010	A. Elzagire 30/05/2014	M.A. Iriarte 30/05/2014	M.A. Iriarte 30/05/2014
04	14/03/2014	UPDATED ACCORDING TO PROGRESS MEETING 10423ACT00006	A. Elzagire 14/03/2014	M.A. Iriarte 14/03/2014	M.A. Iriarte 14/03/2014
03	06/02/2014	UPDATED ACCORDING TO YAZD I PROJECT MEETING NO.3 MOM	I. Larrañaga 06/02/2014	M.A. Iriarte 06/02/2014	M.A. Iriarte 06/02/2014
02	05/12/2013	TO MODIFY THE EAF 5TH HOLE FEEDING SYSTEM	I. Larrañaga 05/12/2013	M.A. Iriarte 05/12/2013	M.A. Iriarte 05/12/2013
01	31/10/2013	INCLUDE IASCO TITLE BLOCK & UPDATE AS PER MOM 10423ACT00004	I. Larrañaga 31/10/2013	M.A.Iriarte 31/10/2013	M.A Iriarte 31/10/2013
	15/10/2013	First Issue	I. Larrañaga 15/10/2013	M.A.Iriarte 15/10/2013	M.A Iriarte 15/10/2013

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INSIDE STEEL PLANT
DETAILS

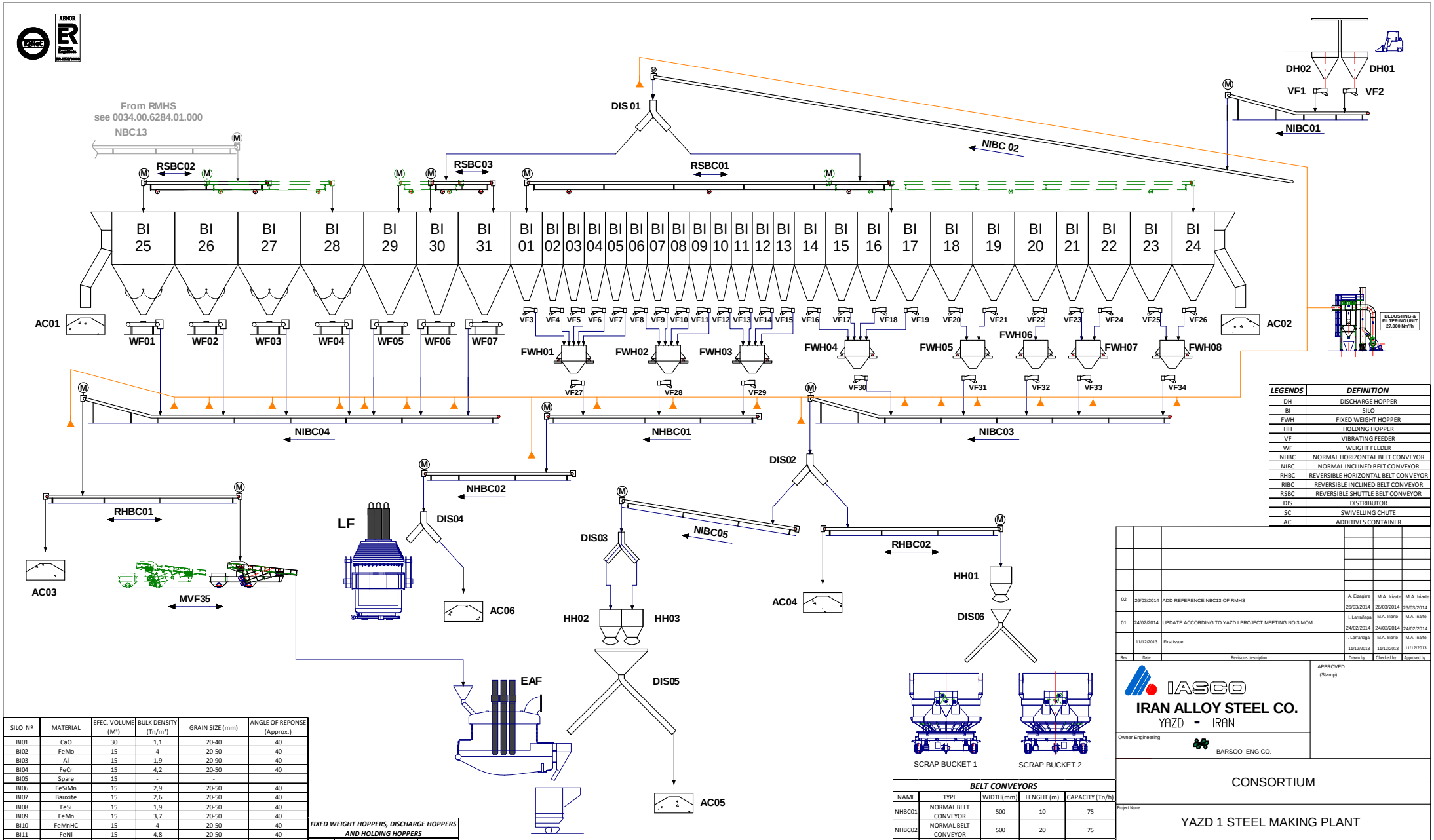
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Nr. of sheets 6
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SARRALLE Shop number 10423.1015.01.000-6
Revision 05

OWNER dwg number
Revision 05

File nr

Document type drawing



LEGENDS	DEFINITION
DH	DISCHARGE HOPPER
BI	SILO
FWH	FIXED WEIGHT HOPPER
HH	HOLDING HOPPER
VF	VIBRATING FEEDER
WF	WEIGHT FEEDER
NHBC	NORMAL HORIZONTAL BELT CONVEYOR
NIBC	NORMAL INCLINED BELT CONVEYOR
RHBC	REVERSIBLE HORIZONTAL BELT CONVEYOR
RIBC	REVERSIBLE INCLINED BELT CONVEYOR
RSBC	REVERSIBLE SHUTTLE BELT CONVEYOR
DIS	DISTRIBUTOR
SC	SWIVELLING CHUTE
AC	ADDITIVES CONTAINER

SILO Nº	MATERIAL	EFEC. VOLUME (M³)	BULK DENSITY (Tn/m³)	GRAIN SIZE (mm)	ANGLE OF REPONSE (Approx.)
BI01	CaO	30	1,1	20-40	40
BI02	FeMo	15	4	20-50	40
BI03	Al	15	1,9	20-90	40
BI04	FeCr	15	4,2	20-50	40
BI05	Spare	15	-	-	
BI06	FeSiMn	15	2,9	20-50	40
BI07	Bauxite	15	2,6	20-50	40
BI08	FeSi	15	1,9	20-50	40
BI09	FeMn	15	3,7	20-50	40
BI10	FeMnHC	15	4	20-50	40
BI11	FeNi	15	4,8	20-50	40
BI12	Carbon	15	0,8	20-80	40
BI13	FeSi	15	1,9	20-50	40
BI14	FeMo	30	4	20-50	40
BI15	Dolomite	30	1,6	20-50	40
BI16	Lime	30	1	20-50	37
BI17	CaO	60	1,1	20-40	40
BI18	FeNi	60	4,8	20-50	40
BI19	FeCr	60	4,2	20-50	40
BI20	FeMn	60	3,7	20-50	40
BI21	Carbon	30	0,8	20-80	40
BI22	FeSiMn	60	2,9	20-50	40
BI23	FeSi	60	1,9	20-50	40
BI24	Carbon	60	0,8	20-80	40
BI25	DRI	100	1,7 - 1,9	44 x 38 x 20	33
BI26	DRI	100	1,7 - 1,9	44 x 38 x 20	33
BI27	DRI	100	1,7 - 1,9	44 x 38 x 20	33
BI28	DRI	100	1,7 - 1,9	44 x 38 x 20	33
BI29	Dolomite	80	1,6	20-50	40
BI30	Carbon	50	0,8	20-80	40
BI31	Lime	80	1	20-50	37

FIXED WEIGHT HOPPERS, DISCHARGE HOPPERS AND HOLDING HOPPERS		
NAME	MATERIAL	EFEC. VOLUME (M³)
FWH01	CaO, Al, Ferro-Alloy	1,5
FWH02	Bauxite, Ferro-Alloy	1,5
FWH03	Carbon, Ferro-Alloy	1,5
FWH04	FeMo, Dolomite, Lime, CaO	1,5
FWH05	Dolomite, Ferro-Alloy	1,5
FWH06	FeMn	1,5
FWH07	Carbon, FeSiMn	1,5
FWH08	Carbon, FeSi	1,5
DH1	CaO, Al, Bauxite, Carbon, Dolomite,Lime, Ferro-Alloy	25
DH2	CaO, Al, Bauxite, Carbon, Dolomite,Lime, Ferro-Alloy	25
HH1	Dolomite, Lime, CaO, Carbon, Ferro-Alloy	3
HH2	Dolomite, Lime, CaO, Carbon, Ferro-Alloy	1,5
HH3	Dolomite, Lime, CaO, Carbon, Ferro-Alloy	1,5

WEIGHT FEEDERS			
NAME	WIDTH(mm)	LENGHT (m)	CAPACITY (Tn/h)
WF1 - WF4	1000	2000	100
WF5 - WF7	650	2000	50

VIBRO FEEDERS		
NAME	TYPE	CAPACITY (Tn/h)
VF1 - VF2	ELECTROMAGNETIC	50
VF3 - VF26	ELECTROMAGNETIC	40
VF27 - VF34	ELECTROMECHANICAL	100
MVF35	ELECTROMECHANICAL	250

BELT CONVEYORS				
NAME	TYPE	WIDTH(mm)	LENGHT (m)	CAPACITY (Tn/h)
NHBC01	NORMAL BELT CONVEYOR	500	10	75
NHBC02	NORMAL BELT CONVEYOR	500	20	75
NIBC01	NORMAL BELT CONVEYOR	500	9(0°) + 13(15°)	100
NIBC02	NORMAL BELT CONVEYOR	500	109(21°)	100
NIBC03	NORMAL BELT CONVEYOR	500	22(0°) + 33(10°)	75
NIBC04	NORMAL BELT CONVEYOR	650	24(0°) + 29(12°)	250
NIBC05	REVERSIBLE BELT CONVEYOR	500	20	75
RHBC01	REVERSIBLE BELT CONVEYOR	650	7	250
RHBC02	REVERSIBLE BELT CONVEYOR	500	29	75
RSBC01	REVERSIBLE SHUTTLE BELT CONVEYOR	500	19	100
RSBC02	REVERSIBLE SHUTTLE BELT CONVEYOR	800	8	500
RSBC03	REVERSIBLE SHUTTLE BELT CONVEYOR	500	5	100

Rev.	Date	Revisions description	Drawn by	Checked by	Approved by
02	26/03/2014	ADD REFERENCE NBC13 OF RMHS	A. Eizagirre 26/03/2014	M.A. Iriarte 26/03/2014	M.A. Iriarte 26/03/2014
01	24/02/2014	UPDATE ACCORDING TO YAZD I PROJECT MEETING NO.3 MOM	I. Larrañaga 24/02/2014	M.A. Iriarte 24/02/2014	M.A. Iriarte 24/02/2014
	11/12/2013	First Issue	I. Larrañaga 11/12/2013	M.A. Iriarte 11/12/2013	M.A. Iriarte 11/12/2013

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CONSORTIUM

Project Name
YAZD 1 STEEL MAKING PLANT

sarralle GROUP

Job nr SP10423
Obtained from
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Weight (Kg) J (Kgm²)

6284 - MHS TECHNOLOGICAL P&I DIAGRAM
MHS GENERAL SCHEME

Scale 1:250
Format
Nr. of sheets 1
Sheet 1 Follow

SARRALLE Shop number 10423.6284.01.000
Revision 02
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Revision 02
File nr

Drawing type: GENERAL