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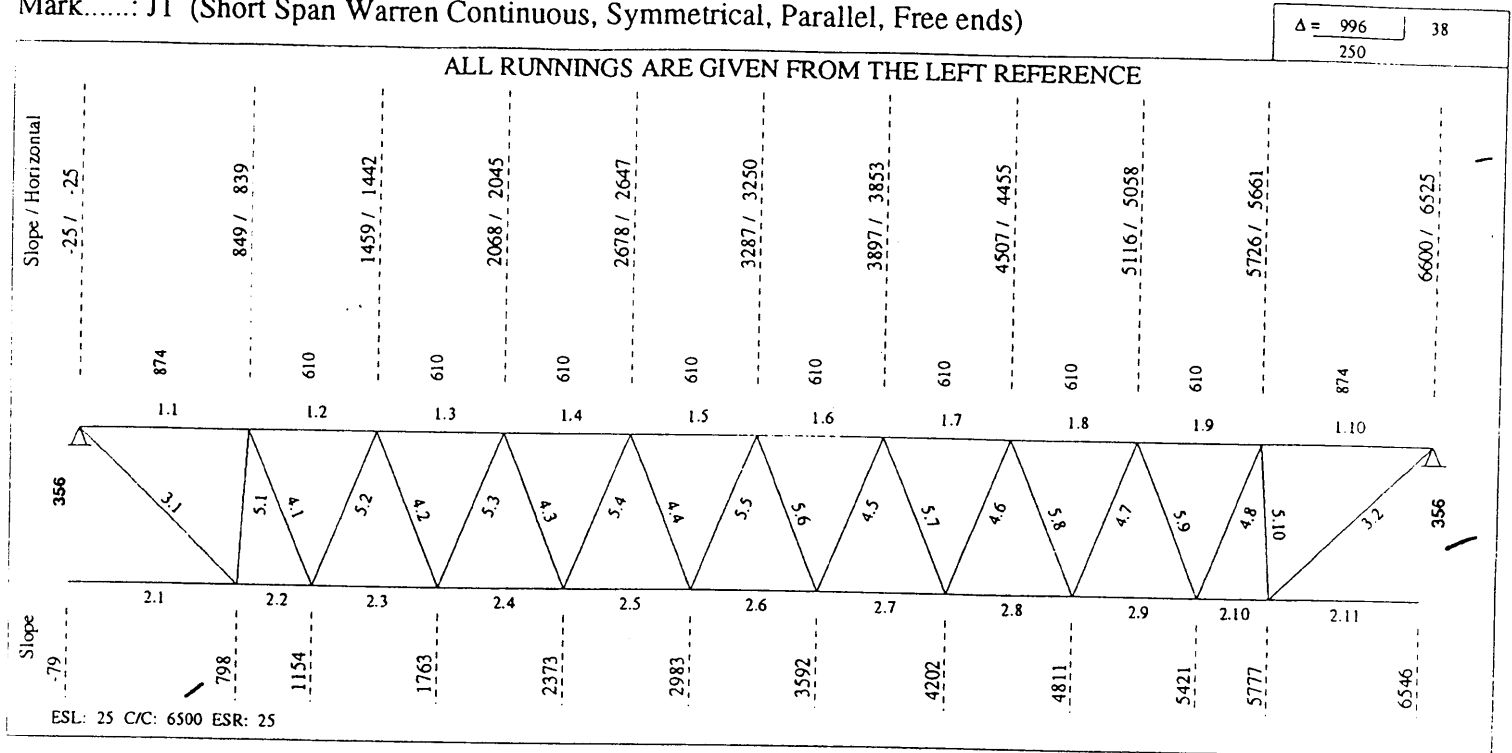
05/06/30

15:48:53

Project: Iqaluit WWTP Plant Conversion

JOIST CALCULATION ACCORDING TO S16-01 & S136 CODES

Mark.....: J1 (Short Span Warren Continuous, Symmetrical, Parallel, Free ends)



LOADING CONDITIONS

(THE SHOWN VALUES ARE REAL)

DEAD LOAD 2.40 kN/m
1.60 kN/m² x 1.50 m

LIVE LOAD ... 3.60 kN/m
2.40 Kn/m² x 1.50 m

(REAL) DEFLECTION

Allowed deflection under live load	=	27.19	mm (L/ 240)
Calculated deflection under service live load	=	15.54	mm (L/ 415)
Allowed deflection under total load	=	35.83	mm (L/ 180)
Calculated deflection under service total load ...	=	25.90	mm (L/ 249)
Joist inertia	=	25.83	x10 ⁶ mm ⁴
Required camber	=	13.25	mm
Use of the joist	Roof		

REVIEWED ACCORDING TO THE
REQUIREMENTS OF THE GENERAL
CONDITIONS OF THE CONTRACT.
ANY ACTION INDICATED IS SUBJECT
TO THESE REQUIREMENTS.

- ☒ NO EXCEPTIONS TAKEN
☐ MAKE NOTED CORRECTIONS
☐ REVISE & RESUBMIT
☐ REJECTED

DATE NU BY JULY 14/05
EARTH TECH (CANADA) INC.

KUDLIK CONSTRUCTION LTD
P.O. BOX 727, 1519 FEDERAL ROAD
IGUALUIT, NUNAVUT X0A 0H0
PHONE: (867) 979-1168
FAX: (867) 979-1168



7/7/2005

DS. 06.30

----- F O R C E S I N M E M B E R S [Kn] -----

(THE SHOWN FORCES ARE FACTORED)

(Fy = 380 MPa U/N)

(Eff. depth = 334.43 mm)

Left Reaction = 27.09/ 0.00 Kn

Right Reaction = 27.09/ 0.00 Kn

REQUIRED MATERIAL

x = tied at mid-length

Slend.

Util.

Length

REQUIRED WELD

Eff. Throat - Ea. Side

Remarks

Top Chord

1.1	0.00	-57.87	LL 1 1/2 x 0.157	z 101	0.97	874	
1.2	0.00	-76.43	do	z 75	0.94	610	
1.3	0.00	-102.99	do	z 75	0.94	do	
1.4	0.00	-120.43 x	do	xx 47	0.77	do	
1.5	0.00	-128.74 x	do	xx 47	0.83	do	
1.6	0.00	-127.93 x	do	xx 47	0.82	do	
1.7	0.00	-118.00 x	do	xx 47	0.76	do	
1.8	0.00	-98.94	do	z 75	0.91	do	
1.9	0.00	-70.76	do	z 75	0.91	610	
1.10	0.00	-50.29	LL 1 1/2 x 0.157	z 101	0.91	874	

Bottom Chord

2.1	0.00	0.00	LL 1 3/8 x 0.118	z 110	0.43	878	
2.2	57.63	0.00	do	z 47	0.67	356	
2.3	89.56	0.00	do	z 81	0.84	610	
2.4	112.37	0.00	do	z 81	0.95	do	
2.5	126.06	0.00	do	z 81	0.98	do	
2.6	130.62	0.00	do	z 81	0.98	do	
2.7	126.06	0.00	do	z 81	0.98	do	
8	112.37	0.00	do	z 81	0.95	do	
9	89.56	0.00	do	z 81	0.84	610	
2.10	57.63	0.00	do	z 47	0.67	356	
2.11	0.00	0.00	LL 1 3/8 x 0.118	z 95	0.43	769	

End Diagonal

3.1	55.93	0.00	BR 5/8 (50W)	z 214	0.91	851	3.00 - 43
3.2	55.93	0.00	BR 5/8 (50W)	z 214	0.91	851	3.00 - 43

Diagonal Towards End

4.1	23.37	0.00	BR 11/16 (50W)	z 107	0.32	469	4.00 - 16
4.2	17.25	0.00	do	z 107	0.23	do	do
4.3	11.33	0.00	do	z 107	0.15	do	do
4.4	5.60	-0.44	do	z 107	0.08	do	do
4.5	5.60	-0.44	do	z 107	0.08	do	do
4.6	11.33	0.00	do	z 107	0.15	do	do
4.7	17.25	0.00	do	z 107	0.23	do	do
4.8	23.37	0.00	BR 11/16 (50W)	z 107	0.32	469	4.00 - 16

Diagonal Towards Center

5.1	0.00	-23.64	BR 5/8 (50W)	z 91	0.93	360	3.00 - 18
5.2	0.00	-23.37	BR 11/16 (50W)	z 107	0.81	469	4.00 - 16
5.3	0.00	-17.25	do	z 107	0.60	do	do
5.4	0.00	-11.33	do	z 107	0.39	do	do
5.5	0.44	-5.60	do	z 107	0.19	do	do
5.6	0.44	-5.60	do	z 107	0.19	do	do
5.7	0.00	-11.33	do	z 107	0.39	do	do
5.8	0.00	-17.25	do	z 107	0.60	do	do
5.9	0.00	-23.37	BR 11/16 (50W)	z 107	0.81	469	4.00 - 16
5.10	0.00	-23.64	BR 5/8 (50W)	z 91	0.93	360	3.00 - 18

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----- BRIDGING -----

Maximum spacing between rows of bridging

@ Top Chord:	3824.48 ==>	1 Row(s) Minimum	Laterals supports
@ Bottom Chord:	5037.36 ==>	1 Row(s) Minimum	Deck (304.8)
			Acc. to the code

POSITION

@ Top Chord	@ Bottom Chord
3287.64 (3250)	3287.64 (3250)

Fabrication code unless noted

V3.6.3.2

-LL = 2 angles short legs back to back, BL = 2 angles welded in box, BR = Round bar
 -U = 1 U profile, UU = 2 U profiles one inside the other, -CL = Crimped angle

The welding length of web members is calculated according to non continuous joints.
 It is shorter for continuous joints.

Projets no.: F03913
 67 / 72

Designer: Marianne Berthelot
 Area to Paint: 4.48 m2

Shop: Les aciers Canam -- St-Gedeon [Production]
 Material Sort: Weight

LP

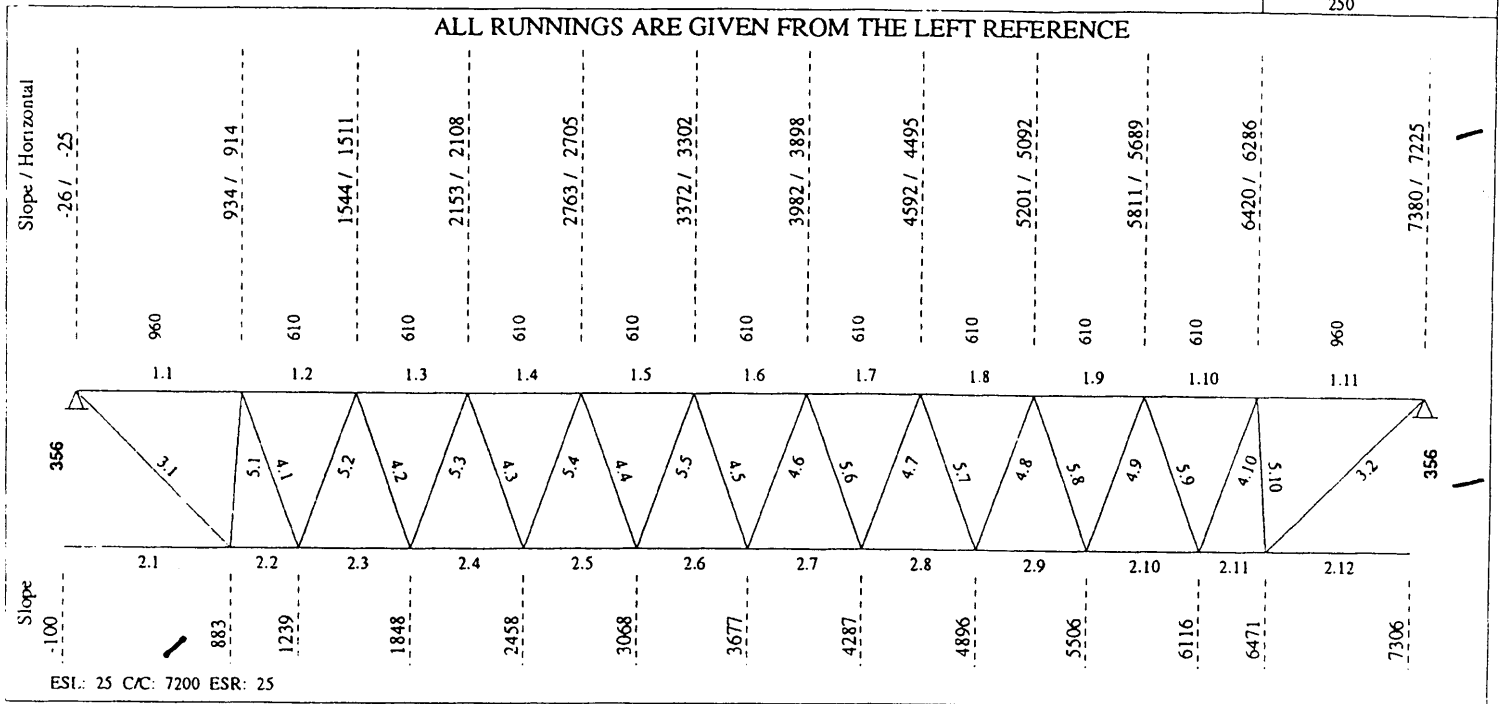
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Project: Iqualuit WWTP Plant Conversion

JOIST CALCULATION ACCORDING TO S16-01 & S136 CODES

Mark.....: J2 (Short Span Warren Continuous, Symmetrical, Parallel, Free ends)

$\Delta = \frac{1510}{250}$ 52



LOADING CONDITIONS
(THE SHOWN VALUES ARE REAL)

DEAD LOAD 2.40 kN/m
1.60 Kn/m² x 1.50 m

LIVE LOAD ... 3.60 kN/m
2.40 Kn/m² x 1.50 m

(REAL) DEFLECTION

Allowed deflection under live load	=	30.44 mm (L/ 240)
Calculated deflection under service live load	=	20.03 mm (L/ 357)
Allowed deflection under total load	=	39.72 mm (L/ 180)
Calculated deflection under service total load ...	=	33.41 mm (L/ 214)
Joist inertia	=	29.32 x10 ⁶ mm ⁴
Required camber	=	14.81 mm
Use of the joist		Roof

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05-06-30

----- F O R C E S I N M E M B E R S [Kn] -----

(THE SHOWN FORCES ARE FACTORED)

(Fy = 380 MPa U/N)

(Eff. depth = 332.06 mm)

Left Reaction = 30.03/ 0.00 Kn

Right Reaction = 30.03/ 0.00 Kn

No	Tension	Compres.	REQUIRED MATERIAL x = tied at mid-length	Slend.	Util.	Length	REQUIRED WELD Eff. Throat-Ea. Side	Remarks
Top Chord								
1.1	0.00	-72.24	x	LL 1 5/8 x 0.157	xx 64	0.98	960	
1.2	0.00	-92.84		do	z 69	0.98	610	
1.3	0.00	-123.27		do	z 69	0.95	do	
1.4	0.00	-144.70	x	do	xx 43	0.82	do	
1.5	0.00	-157.12	x	do	xx 43	0.89	do	
1.6	0.00	-160.53	x	do	xx 43	0.91	do	
1.7	0.00	-154.93	x	do	xx 43	0.88	do	
1.8	0.00	-140.32	x	do	xx 43	0.80	do	
1.9	0.00	-116.70		do	z 69	0.90	do	
1.10	0.00	-84.07		do	z 69	0.94	610	
1.11	0.00	-60.75		LL 1 5/8 x 0.157	z 103	0.95	960	
Bottom Chord								
2.1	0.00	0.00		LL 1 5/8 x 0.118	z 104	0.44	983	
2.2	70.43	0.00		do	z 40	0.67	356	
2.3	106.47	0.00		do	z 68	0.84	610	
2.4	133.50	0.00		do	z 68	0.95	do	
2.5	151.52	0.00		do	z 68	1.01	do	
2.6	160.53	0.00		do	z 68	1.01	do	
2.7	160.53	0.00		do	z 68	1.01	do	
2.8	151.52	0.00		do	z 68	1.01	do	
2.9	133.50	0.00		do	z 68	0.95	do	
2.10	106.47	0.00		do	z 68	0.84	610	
2.11	70.43	0.00		do	z 40	0.67	356	
2.12	0.00	0.00		LL 1 5/8 x 0.118	z 87	0.44	835	
End Diagonal								
3.1	67.15	0.00		BR 11/16 (50W)	z 213	0.90	929	4.00 - 39
3.2	67.15	0.00		BR 11/16 (50W)	z 213	0.90	929	4.00 - 39
Diagonal Towards End								
4.1	26.16	0.00		BR 11/16 (50W)	z 107	0.35	469	4.00 - 16
4.2	20.14	0.00		do	z 107	0.27	do	do
4.3	14.28	0.00		do	z 107	0.19	do	do
4.4	8.60	0.00		do	z 107	0.12	do	do
4.5	3.09	-3.09		do	z 107	0.11	do	do
4.6	3.09	-3.09		do	z 107	0.11	do	do
4.7	8.60	0.00		do	z 107	0.12	do	do
4.8	14.28	0.00		do	z 107	0.19	do	do
4.9	20.14	0.00		do	z 107	0.27	do	do
4.10	26.16	0.00		BR 11/16 (50W)	z 107	0.35	469	4.00 - 16
Diagonal Towards Center								
5.1	0.00	-26.00		BR 11/16 (50W)	z 82	0.76	360	4.00 - 16
5.2	0.00	-26.16		do	z 107	0.91	469	do
5.3	0.00	-20.14		do	z 107	0.70	do	do
5.4	0.00	-14.28		do	z 107	0.50	do	do
5.5	0.00	-8.60		do	z 107	0.30	do	do
5.6	0.00	-8.60		do	z 107	0.30	do	do
5.7	0.00	-14.28		do	z 107	0.50	do	do
5.8	0.00	-20.14		do	z 107	0.70	do	do
5.9	0.00	-26.16		do	z 107	0.91	469	do
5.10	0.00	-26.00		BR 11/16 (50W)	z 82	0.76	360	4.00 - 16

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----- BRIDGING -----

Maximum spacing between rows of bridging
 @ Top Chord: 4145.19 ==> 1 Row(s) Minimum Laterals supports
 @ Bottom Chord: 5781.3 ==> 1 Row(s) Minimum Deck (304.8)
 Acc. to the code

POSITION @ Top Chord @ Bottom Chord
 3677.83 (3601) 3677.83 (3601)

Fabrication code unless noted

V3.6.3.2

-LL = 2 angles short legs back to back, BL = 2 angles welded in box, BR = Round bar
 -U = 1 U profile, UU = 2 U profiles one inside the other, -CL = Crimped angle

The welding length of web members is calculated according to non continuous joints.
 It is shorter for continuous joints.

Projets no.: P03913

Designer: Marianne Berthelot

Shop: Les aciers Canam -- St-Gedeon [Production]

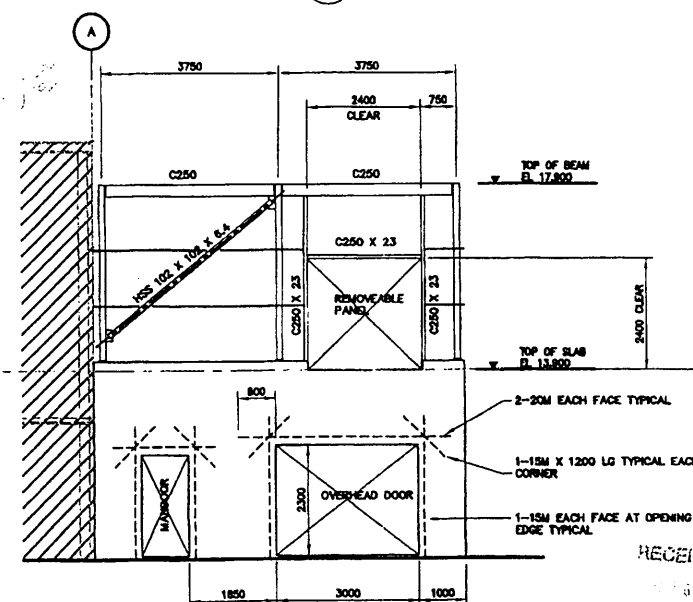
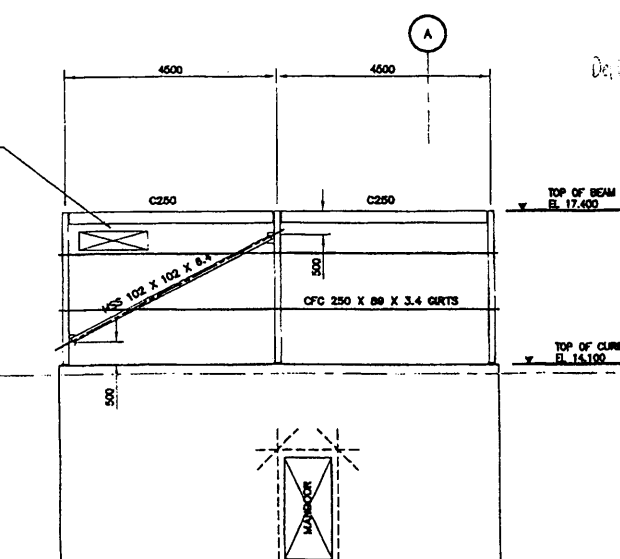
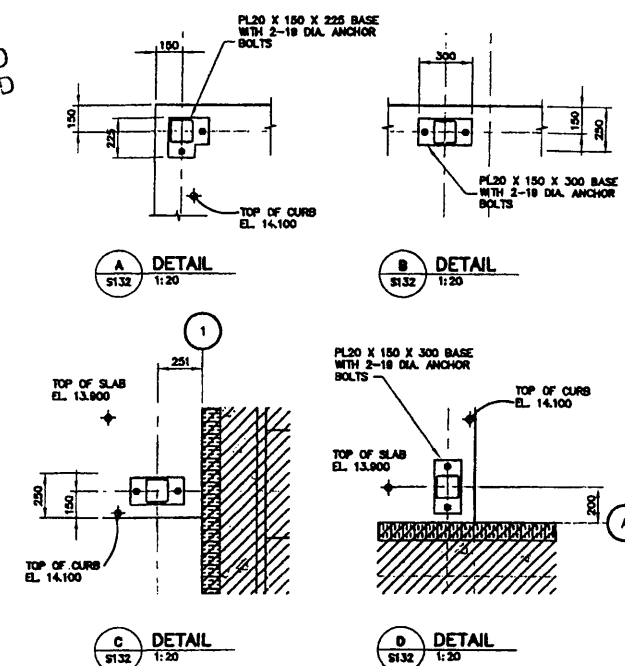
83 / 88

Area to Paint: 5.55 m2

Material Sort: Weight

Handwritten signature

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HEADWORKS
NORTH ELEVATION
1-75

HEADWORKS
SOUTH ELEVATION
1-75



Original Signature: R.J. GILLIS
Original Date: 2005-03-04
PERMIT NUMBER: P 005
The Association of Professional Engineers,
Geologists and Geophysicists of the NWT/NL



1	2005 08/14	ISSUED FOR CONSTRUCTION
0	2006 03/04	ISSUED FOR TENDER
No.	Date	Description

REVISIONS



CITY of IQALUIT,
Nunavut

Design

Drawn NV

Approved

Checked

Project Title	
---------------	--

Project Title
CITY OF IQALUIT
WASTEWATER
TREATMENT PLANT
PHASE 1

Drawing Title

STRUCTURAL ROOF FRAMING

Scale
AS NOTED

AS NOTED
Project No.

75360

Drawing No.
S133

Revision

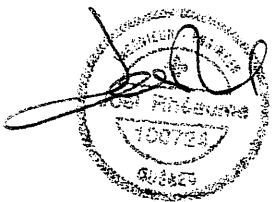
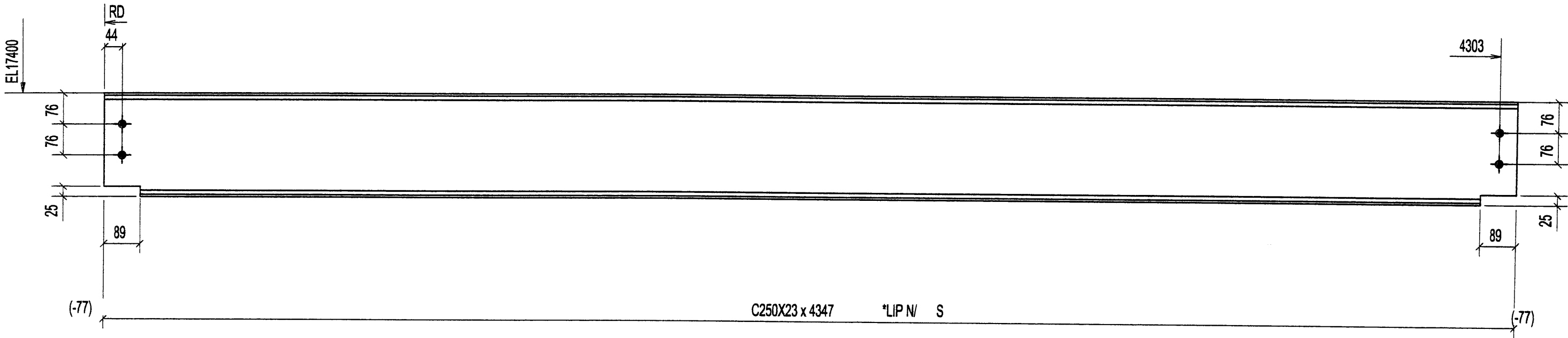
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1	A/1'-3"	+17.400
1	A/3'-5"	+17.400

CERTIFIÉ ISO 9002

REVIEWED ACCORDING TO THE
REQUIREMENTS OF THE GENERAL
CONDITIONS OF THE CONTRACT.
ANY ACTION INDICATED IS SUBJECT
TO THESE REQUIREMENTS.
☒ NO EXCEPTIONS TAKEN
☐ MAKE NOTED CORRECTIONS
☐ REVISE & RESUBMIT
☐ REJECTED
DATE JUL 11 2005 BY RR
EARTH TECH (CANADA) INC.

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IQUALUIT, NUNAVUT X0A 0H0
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FAX: (867) 979-1169

05/07/2005



2 - BEAM - B1000

QTE	DESCRIPTION	QTE	MARQUE	DESCRIPTION	LONG.	REMARKS
2	B1000	2	B1000	C250X23	4347	
BOULONS DE CHANTIER						

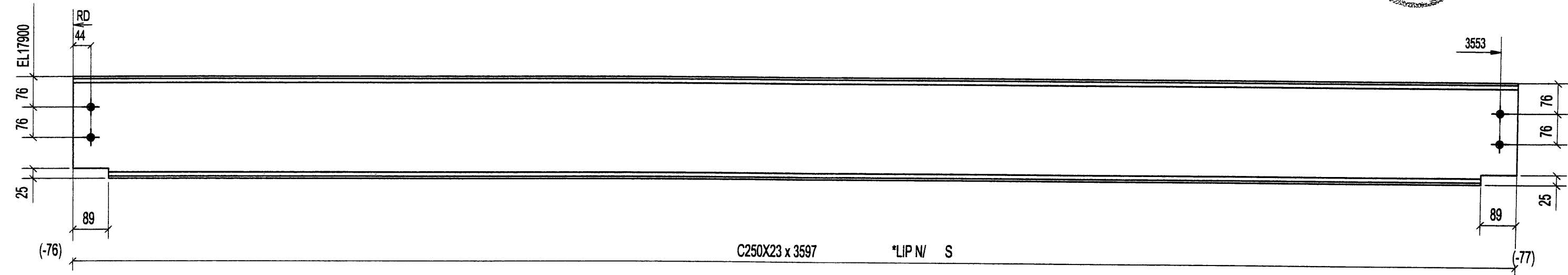
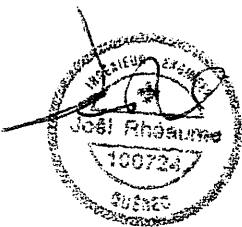
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300, DE L'ÉGLISE,
ST-ROCH, QUÉBEC, G0W 0A6
Tél: (418) 838-0888
Fax: (418) 838-3810
www.querometal.com

FOR APPROVAL		29-06-05	
REV.	DESCRIPTION	DATE	PAR
TROUS	13/16 Ø U / N	PENTURE	ACIER
DESSINER PAR	A.P. 06/28/2005	VERIFIER PAR	B.P.
PROJET	W.W.T IQUALUIT		
DIV.	E001	CONTRAT	C2005-42
			B1000

DIV	GRID LOC.	ELEV.
1	C/2'-4'	+17.900

CERTIFIÉ ISO 9002



1 - BEAM - B1001

1	B1001	BEAM		
1	B1001	C250X23	3597	
QTE	MARQUE	DESCRIPTION	LONG.	REMARKS

QTE	DESCRIPTION
	BOULONS DE CHANTIER

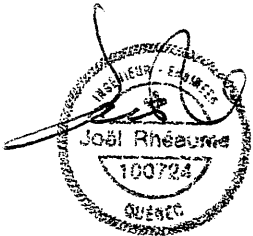
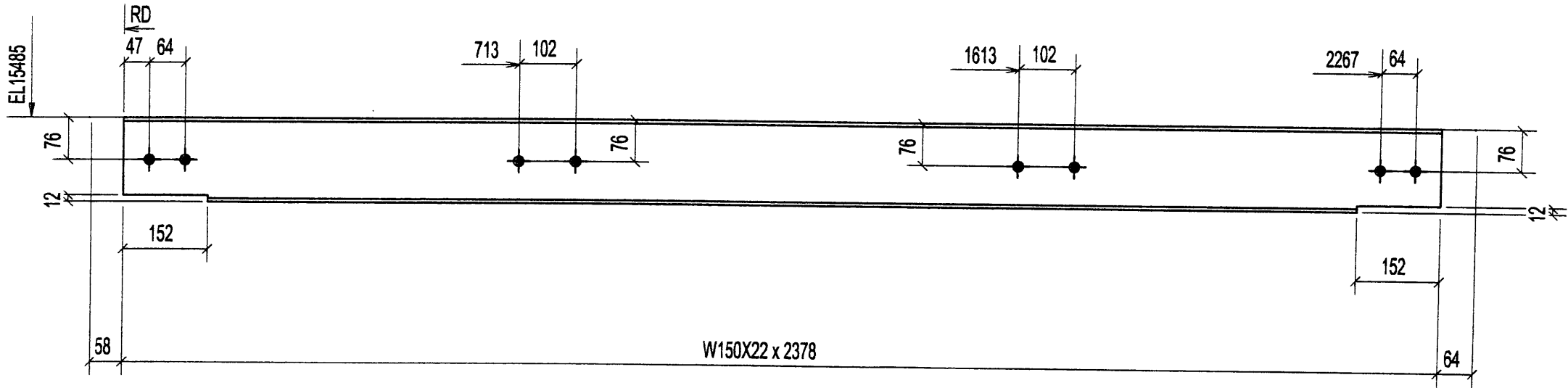
QUÉBEC
MÉTAL

330, DE L'ÉGLISE,
ST-ROCH, QUÉBEC, G1R 5M5
Tel: (418) 838-0080
Fax: (418) 838-3810
www.quebecmetal.com

		FOR APPROVAL		29-06-05					
REV.		DESCRIPTION				DATE		PAR	
TROUS		13/16 Ø U / N		PEINTURE GALVANIZED		ACIER 300W U/N			
DESSINER PAR		A.P. 06/28/2005		VÉRIFIER PAR		B.P.		REV.	
									
PROJET		W.W.T IQUALUIT							
DIV.		E001		CONTRAT		C2005-42		B1001	

DIV	GRID LOC.	ELEV.
1	A-B/4-5	+15.485

CERTIFIÉ ISO 9002



1 - BEAM - B1003

QTE	DESCRIPTION	QTE	MARQUE	DESCRIPTION	LONG.	REMARKS
1	B1003	1	B1003	W150X22	2378	350W
BOULONS DE CHANTIER						

Q U E R O

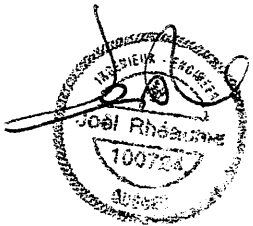
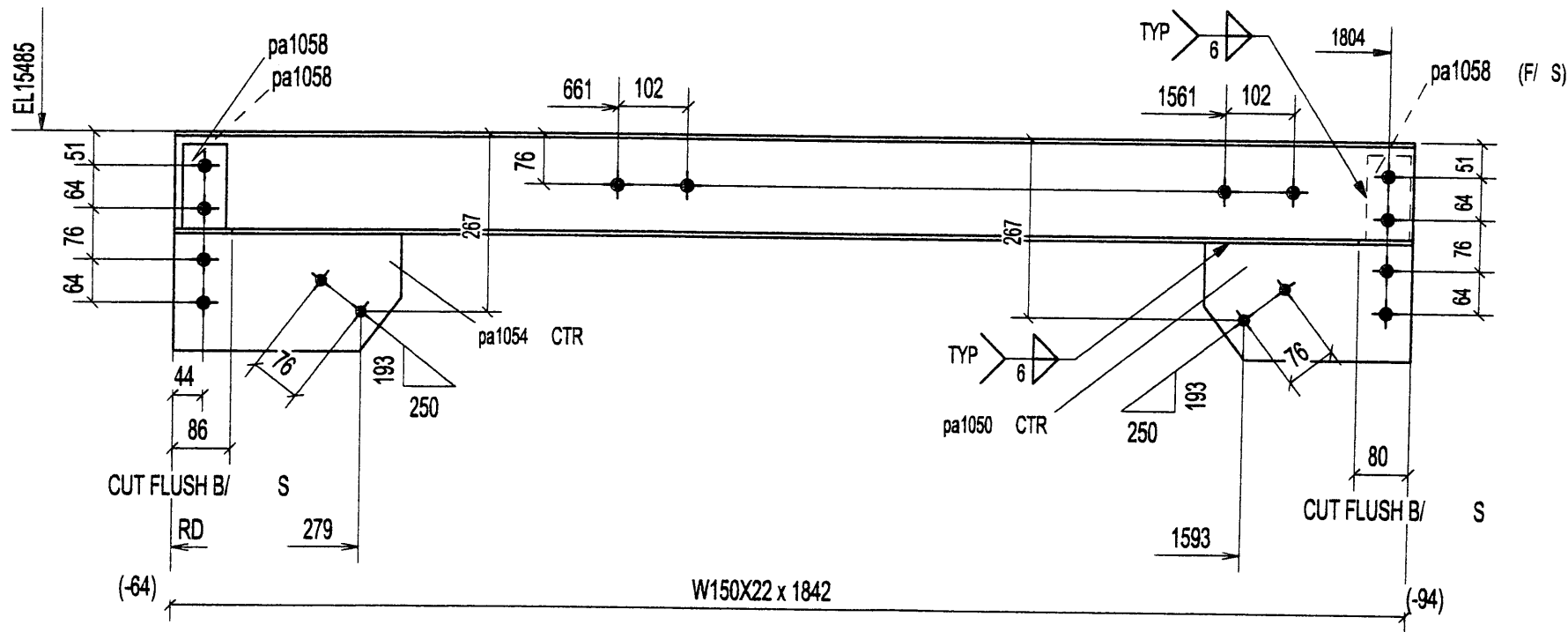
M É T A L

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ST-RODOLPHE,
QUÉBEC, G8W 5M6
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Fax: (418) 838-3810
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		FOR APPROVAL		29-06-05					
REV.		DESCRIPTION				DATE		PAR	
TROUS		13/16 Ø U / N		PEINTURE GALVANIZED		ACIER 300W U/N			
DESSINER PAR A.P. 06/28/2005				VERIFIER PAR B.P.		REV. 			
PROJET W.W.T IQUALUIT									
DIV. E001		CONTRAT C2005-42				B1003			

DIV	GRID LOC.	ELEV.
1	A'-B'/3'	+15.485

CERTIFIÉ ISO 9002



1 - BEAM - B1004

1	B1004	BEAM		
1	B1004	W150X22	1842	350W
1	pa1050	PL 10X174.6	309	
1	pa1054	PL 10X174.6	339	
3	pa1058	PL 2X65	126	
QTE	MARQUE	DESCRIPTION	LONG.	REMARKS

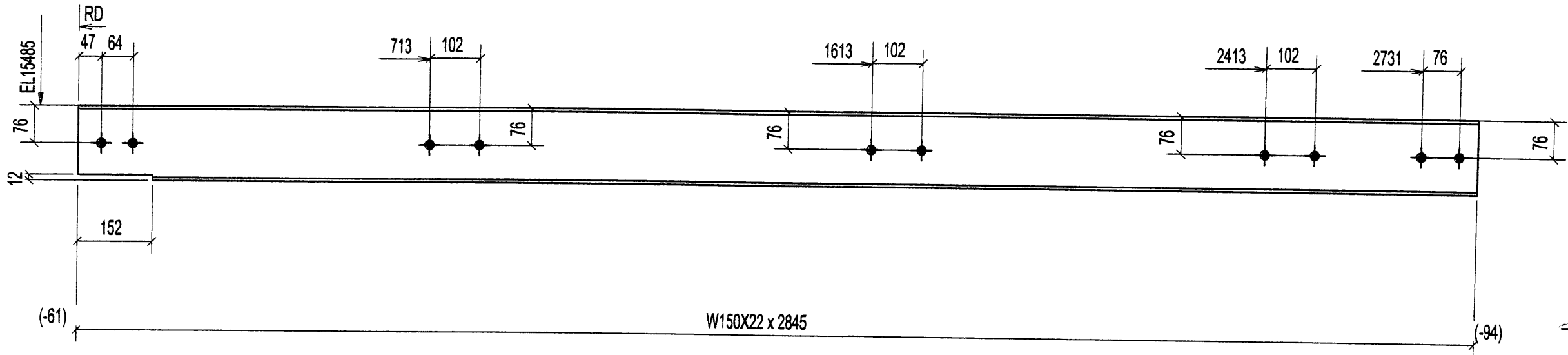


		FOR APPROVAL		29-06-05					
REV.		DESCRIPTION				DATE		PAR	
TROUS		13/16 Ø U / N				PEINTURE		GALVANIZED	
DESSINER PAR		A.P. 06/28/2005				VÉRIFIER PAR		B.P.	
PROJET		W.W.T IQUALUIT				ACIER		300W U/N	
						REV.			
DIV.		CONTRAT				B1004			
E001		C2005-42							

4	BOLT_3/4"DIA_A325_2"
4	BOLT_5/8"DIA_A325_1"1/2
QTE	DESCRIPTION
	BOULONS DE CHANTIER

DIV	GR/D LOC.	ELEV.
1	A'-B'/3'	+15.485

CERTIFIÉ ISO 9002



1 - BEAM - B1005

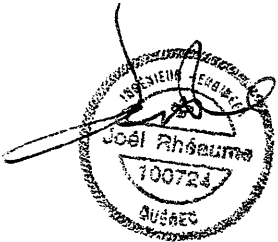
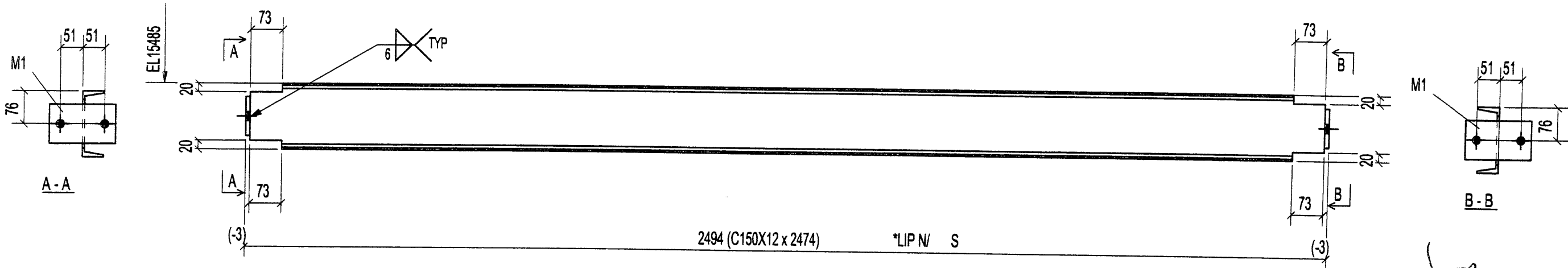
2	BOLT_3/4"DIA_A325_2"	1	B1005	BEAM		
QTE	DESCRIPTION	1	B1005	W150X22	2845	350W
BOULONS DE CHANTIER		QTE	MARQUE	DESCRIPTION	LONG.	REMARKS

QUÉBEC
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ST-ROCH (VAL),
QUÉBEC, G8W 5M6
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Fax: (418) 539-3810
www.quebecmetal.com

0	FOR APPROVAL	29-06-05	
REV.	DESCRIPTION	DATE	PAR
TROUS	13/16 Ø U / N	PEINTURE	ACIER
		GALVANIZED	300W U/N
DESSINER PAR	VERIFIER PAR	REV.	0
A.P.	06/28/2005	S.P.	
PROJET	W.W.T IQUALUIT		
DIV	CONTRAT		
E001	C2005-42		B1005

DIV	GRID LOC.	ELEV.
1	A'-B'/3'-5"	+15.485
1	A'-B'/3'-5"	+15.485
1	A'-B'/3'-5"	+15.485
1	A'-B'/3'-5"	+15.485

CERTIFIÉ ISO 9002



4 - BEAM - B1006

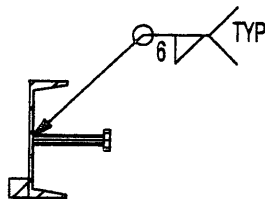
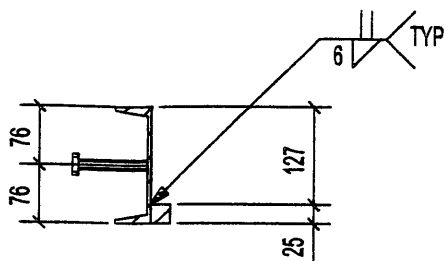
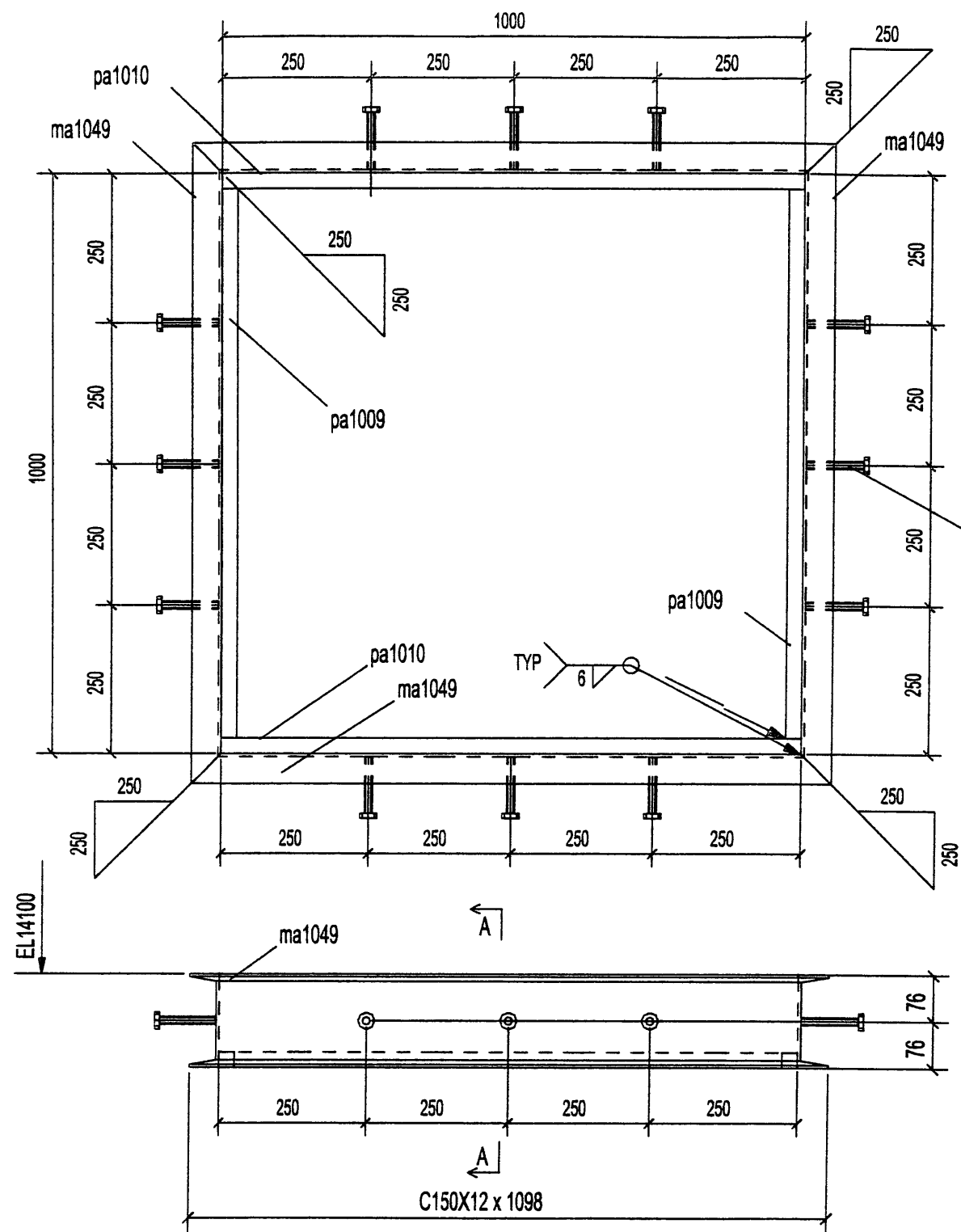
4	BOLT_3/4"DIA_A325_1"3/4
QTE	DESCRIPTION
BOULONS DE CHANTIER	

4	B1006	BEAM		
4	B1006	C150X12	2474	
3	M1	PL10X90	152	
QTE	MARQUE	DESCRIPTION	LONG.	REMARKS

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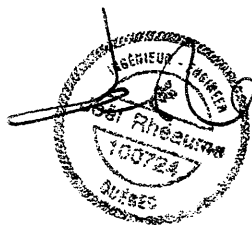
300, DE L'ÉCOLE,
ST-ROCH, QUÉBEC, G0W 3M6
Tél: (418) 538-1099
Fax: (418) 538-3810
www.quebecmetal.com

△	FOR APPROVAL	29-06-05	
REV.	DESCRIPTION	DATE	PAR
TROUS	13/16 Ø U / N	PEINTURE GALVANIZED	ACIER 300W U/N
DESSINER PAR A.P.	06/28/2005	VÉRIFIER PAR B.P.	REV.
PROJET W.W.T IQUALUIT			
DIV.	CONTRAT		
E001	C2005-42	B1006	



A - A

* 12-12 X 100 LONG. NELSON STUDS TO BE PROVIDED FOR WORKSHOP ASSEMBLY



1 - BEAM - B1007

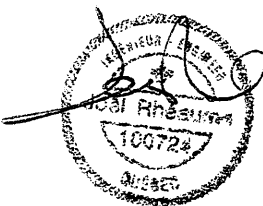
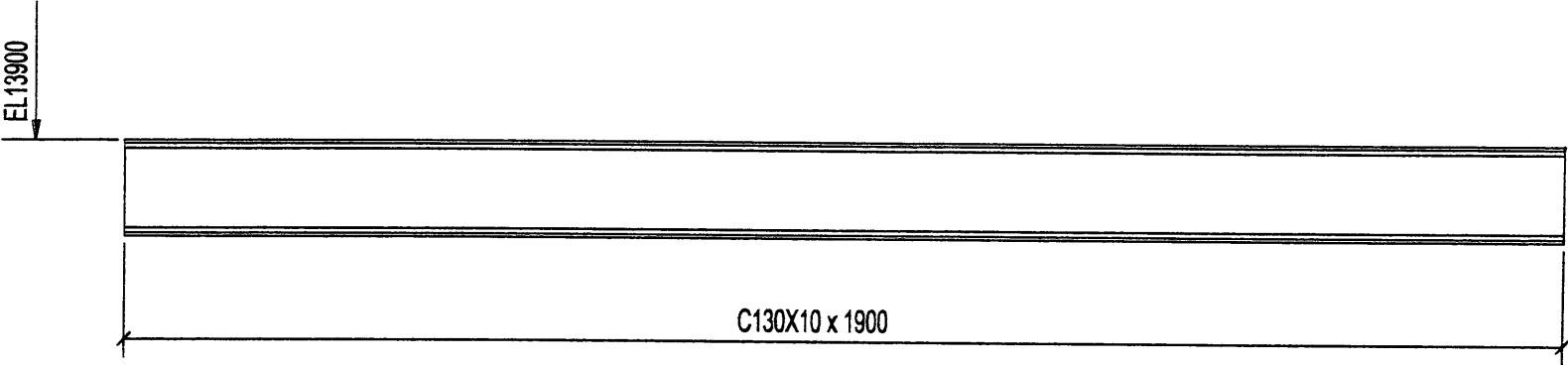
1	B1007	BEAM		
1	B1007	C150X12	1098	
3	ma1049	C150X12	1098	
2	pa1009	FL25X25	950	
2	pa1010	FL25X25	1000	
QTE	MARQUE	DESCRIPTION	LONG.	REMARKS



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FOR APPROVAL	27-06-05	
REV.	DESCRIPTION	DATE
TROUS	13/16 Ø U/N	PERITURE GALVANIZED
DESSINER PAR	A.P. 06/23/2005	ACIER 300W U/N
PROJET	W.W.T. IQUALUIT	REV.
DIV.	E001	CONTRAT C2005-42
		B1007

QTE	DESCRIPTION
	BOULONS DE CHANTIER



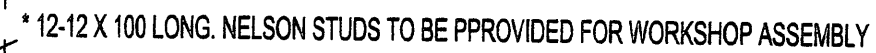
1 - BEAM - B1008

1	B1008	BEAM		
1	B1008	C130X10	1900	
QTE	MARQUE	DESCRIPTION	LONG.	REMARKS

QTE	DESCRIPTION
	BOULONS DE CHANTIER

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	FOR APPROVAL	27-06-05	
REV.	DESCRIPTION	DATE	PAR
TROUS	13/16 Ø U / N	PEINTURE NO PAINT	ACIER 300W U/N
DESSINER PAR A.P.	06/23/2005	VÉRIFIER PAR -	REV.
PROJET	W.W.T IQUALUIT		
DIV. E001	CONTRAT C2005-42	B1008	



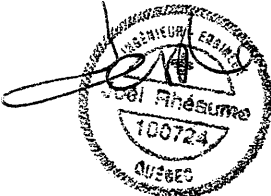
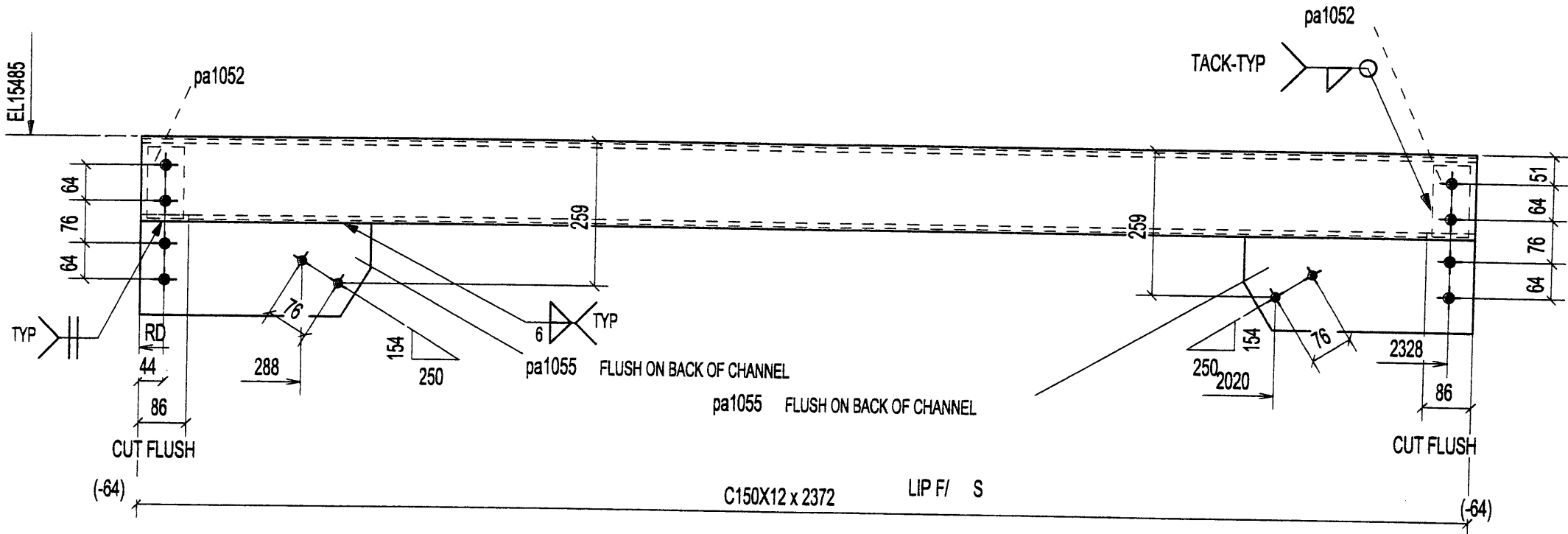
**QUERCO
METAL**

800, DE L'ÉGLISE,
ST-ROCH, Q.
QUÉBEC, G0W 5W4
Tel. (418) 838-0089
Fax (418) 838-3810
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QTE	DESCRIPTION	3	ma1052	C130X10	976	
BOULONS DE CHANTIER		QTE	MARQUE	DESCRIPTION	LONG.	REMARKS

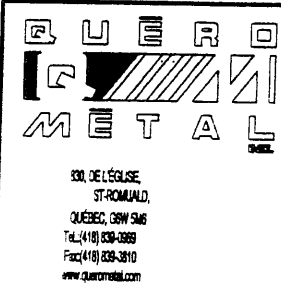
DIV	GRID LOC.	ELEV.
1	B/3-5'	+15.485

CERTIFIÉ ISO 9002



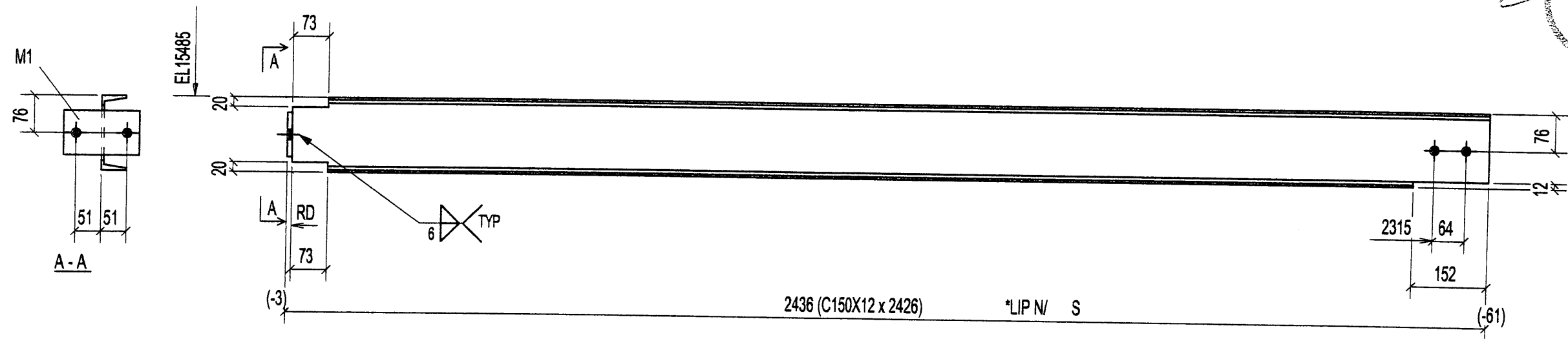
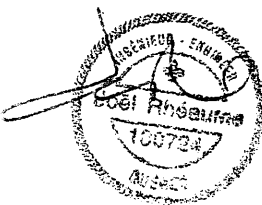
1 - BEAM - B1011

4	BOLT_3/4"DIA_A325_2*1/4	1	B1011	BEAM			
4	BOLT_5/8"DIA_A325_1*1/2	1	B1011	C150X12	2372		
QTE	DESCRIPTION	2	pa1052	PL 4X65	128		
		2	pa1055	PL 10X166.5	410		
BOULONS DE CHANTIER		QTE	MARQUE	DESCRIPTION	LONG.	REMARKS	



FOR APPROVAL	29-06-05	
REV.	DESCRIPTION	DATE
TROUS	13/16 Ø U / N	ACIER
DESIGNER PAR	PAINTURE	300W U/N
AP.	GALVANIZED	REV.
PROJET	W.W.T IQUALUIT	
DIV	CONTRAT	B1011
E001	C2005-42	

CERTIFIÉ ISO 9002



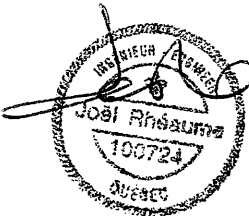
1 - BEAM - B1012

1	B1012	BEAM		
1	B1012	C150X12	2426	
1	M1	PL10X90	152	
QTE	MARQUE	DESCRIPTION	LONG.	REMARKS

**QUERO
METAL**

		FOR APPROVAL		29-06-05			
REV.		DESCRIPTION		DATE		PAR	
TROUS		13/16 Ø U / N		PEINTURE GALVANIZED		ACIER 300W U/N	
DESSINER PAR A.P. 06/28/2005		VÉRIFIER PAR B.P.		REV.			
PROJET W.W.T IQUALUIT							
DIV. E001		CONTRAT C2005-42			B1012		

CERTIFIÉ ISO 9002



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		FOR APPROVAL		29-06-05			
REV.		DESCRIPTION		DATE		PAR	
TROUS		13/20 Ø U / N		PERITURE GALVANIZED		ACIER 300W U/N	
DESSINER PAR A.P.		06/28/2005		VERIFIER PAR B.P.		REV.	
							
PROJET W.W.T IQUALUIT							
DIV E001		CONTRAT C2005-42		B1013			