





# AMHERSTBURG FORT MALDEN RANGE FRONT

LIST OF DRAWINGS		
DRAWING NUMBER	NAME	REV.
LL667-LD01-01	LIST OF DRAWINGS	0
LL667-GN01-01	GENERAL NOTES	0
LL667-TP01-01	FOUNDATION DETAILS	0

No.	Revision/Issue	Date

Client



 **MTSE INC.**  
425 HESPELER RD., SUITE 352  
CAMBRIDGE, ON  
CANADA  
N1R 8J6  
PHONE: 519-239-8381  
FAX: 226-212-0158

Drawing Name  
INSTALLATION  
DRAWING LIST

Project Name and Address  
7.6m SELF SUPPORT TOWER  
AMHERSTBURG  
FORT MALDEN RANGE FRONT



Drawn by DIV	Approved by MT
Project number LL667	Date 02/25/2020
Drawing number LL667-LD01-01	Revision 0

**NOTES:**

1. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATIONS AND/OR THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
2. THE STRUCTURE IS DESIGNED TO BE STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. THE CREW MUST FOLLOW APPROVED ERECTION PROCEDURES IN ORDER TO ENSURE THE SAFETY OF THE CONSTRUCTION AND ITS PARTS DURING ERECTION.
3. ALL CONSTRUCTION SHALL COMPLY FULLY WITH THE APPLICABLE PROVISIONS OF THE CANADA LABOUR CODE, AND ALL LOCAL GOVERNING CODES. ALL REQUIREMENTS SPECIFIED IN THE CODES SHALL BE ADHERED TO AS IF THEY WERE CALLED FOR OR SHOWN ON THE DRAWINGS.
4. ALL WORK CONSTRUCTED ACCORDING TO THESE DRAWINGS SHALL BE CHECKED AND VERIFIED BY QUALITY ASSURANCE AS DETERMINED BY THE ENGINEER.
5. WHERE STANDARDS ARE IDENTIFIED WITHOUT A RELEASE DATE IN THESE GENERAL NOTES, THE MOST RECENT VERSION SHALL APPLY.

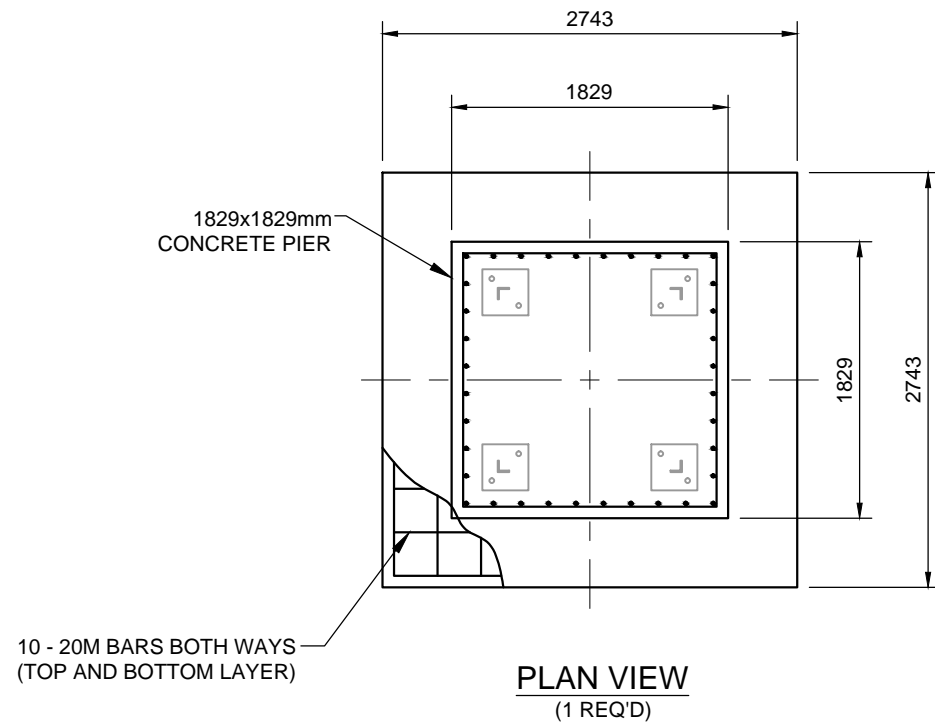
**FIELD ERECTION**

1. THE CREW SHOULD COMPLY WITH ALL INSTALLATION PROCEDURES. SAFEGUARDS AND MEANS AND METHODS OF CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF OHSА AND THE CANADIAN LABOUR CODE, (LATEST EDITION)
2. ERECTION METHODS AND TOLERANCES SHALL COMPLY WITH CSA STANDARD S37 (LATEST EDITION). MINIMUM RECOMMENDED WEATHER CONDITIONS THAT SHOULD BE OBSERVED TO ENSURE A SAFE WORKING CONDITION SHALL BE: WIND SPEED NOT TO EXCEED 40 KMPH, AND NO THUNDERSTORMS FORECASTED.
3. UPON COMPLETION OF ALL WORK, THE SITE SHALL BE CLEANED OF ALL DEBRIS AS REQUIRED. ANY SURPLUS MATERIALS NOT REMOVED FROM THE SITE SHALL BE NEATLY STORED IN AN AREA DESIGNATED BY THE OWNER'S REPRESENTATIVE.

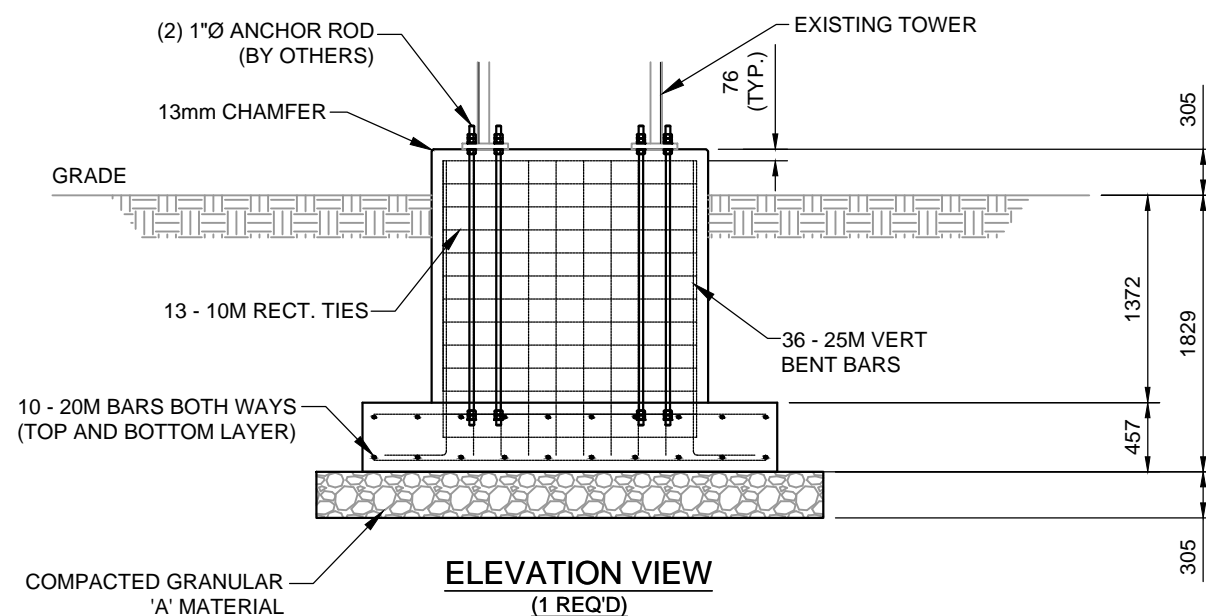
No.	Revision/Issue	Date
Client		
		
 <b>MTSE INC.</b> 425 HESPELER RD., SUITE 352 CAMBRIDGE, ON CANADA N1R 8J6 PHONE: 519-239-8381 FAX: 226-212-0158		
Drawing Name <b>INSTALLATION GENERAL NOTES</b>		
Project Name and Address <b>7.6m SELF SUPPORT TOWER AMHERSTBURG FORT MALDEN RANGE FRONT</b>		
Drawn by <b>DIV</b>	Approved by <b>MT</b>	
Project number <b>LL667</b>	Date <b>02/25/2020</b>	
Drawing number <b>LL667-GN01-01</b>	Revision <b>0</b>	

**FOUNDATION NOTES:**

1. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS BEFORE PROCEEDING WITH WORK.
2. FOUNDATION DESIGNED BASED ON SOIL REPORT:
  - 2.1. DONE BY: WSP CANADA INC.
  - 2.2. PROJECT NO: 181-14155-00
  - 2.3. SUBMITTED DATE: 01 APRIL 2019
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4350 PSI [30 MPA] AT 28 DAYS. AIR ENTRAINMENT OF 7% SHALL BE USED. MEASURED SLUMP SHALL BE 2" [51MM] +/- 1" [25MM]
4. ALL REINFORCING SHALL BE CLEAN OF OIL, RUST, DIRT ETC... BEFORE CONCRETE IS POURED. BARS WITH KINKS, BENDS ETC... NOT SHOWN ON FOUNDATION LAYOUT SHALL BE REJECTED.
5. ALL REINFORCING MATERIAL SHALL HAVE A MINIMUM OF 3" [75MM] OF CONCRETE COVER.
6. ALL ANCHORAGE STEEL BELOW GRADE NOT ENCASED IN CONCRETE SHALL BE GALVANIZED AND FURTHER CORROSION PROTECTION SHALL BE PROVIDED
7. BACKFILL SHALL BE PLACED IN LIFTS NO GREATER THAN 10" [250MM] AND COMPACTED TO A MINIMUM OF 95% OF S.P.D.D.
8. ALL BACKFILL MATERIAL SHALL BE FREE OF DEBRIS, WATER, LARGE ROCKS, ORGANIC MATERIAL, ICE AND SNOW.
9. FOUNDATION DESIGNED IN ACCORDANCE TO CSA-S37 (LATEST REVISION)
10. CONCRETE WORK SHALL BE IN ACCORDANCE WITH CSA-23.1, CSA-23.2 & CSA-23.3 (LATEST REVISIONS)
11. REINFORCEMENT SHALL CONFORM TO CSA-G30.18, GRADE 400.
12. FACTORED FOUNDATION LOADS (AS PROVIDED BY CANADIAN COAST GUARD):
  - 12.1. AXIAL = 59kN
  - 12.2. HORIZONTAL = 21kN
  - 12.3. MOMENT = 101kN-m





REINFORCING BAR CHART					
QTY	SIZE	DIM 'A'	DIM 'B'	SPACED	DESCRIPTION
36	25M	1948mm	406mm	182mm	
13	10M	1676mm	N/A	152mm	
40	20M	2591mm	N/A	288mm	



No.	Revision/Issue	Date

Client

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425 HESPELER RD., SUITE 352  
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N1R 8J6  
PHONE: 519-239-8381  
FAX: 226-212-0158

Drawing Name: INSTALLATION  
TOWER PROFILE & ANTENNA LIST

Project Name and Address: 7.6m SELF SUPPORT TOWER  
AMHERSTBURG  
FORT MALDEN RANGE FRONT

Drawn by DIV	Approved by MT
Project number LL667	Date 02/25/2020
Drawing number LL667-FD01-01	Revision 0





# AMHERSTBURG FORT MALDEN RANGE REAR

LIST OF DRAWINGS		
DRAWING NUMBER	NAME	REV.
LL668-LD01-01	LIST OF DRAWINGS	0
LL668-GN01-01	GENERAL NOTES	0
LL668-TP01-01	FOUNDATION DETAILS	0

No.	Revision/Issue	Date

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425 HESPELER RD., SUITE 352  
CAMBRIDGE, ON  
CANADA  
N1R 8J6  
PHONE: 519-239-8381  
FAX: 226-212-0158

Drawing Name: INSTALLATION  
DRAWING LIST

Project Name and Address:  
16.8m SELF SUPPORT TOWER  
AMHERSTBURG  
FORT MALDEN RANGE REAR

Drawn by DIV	Approved by MT
Project number LL668	Date 02/25/2020
Drawing number LL668-LD01-01	Revision 0

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Drawing Name

INSTALLATION  
GENERAL NOTES

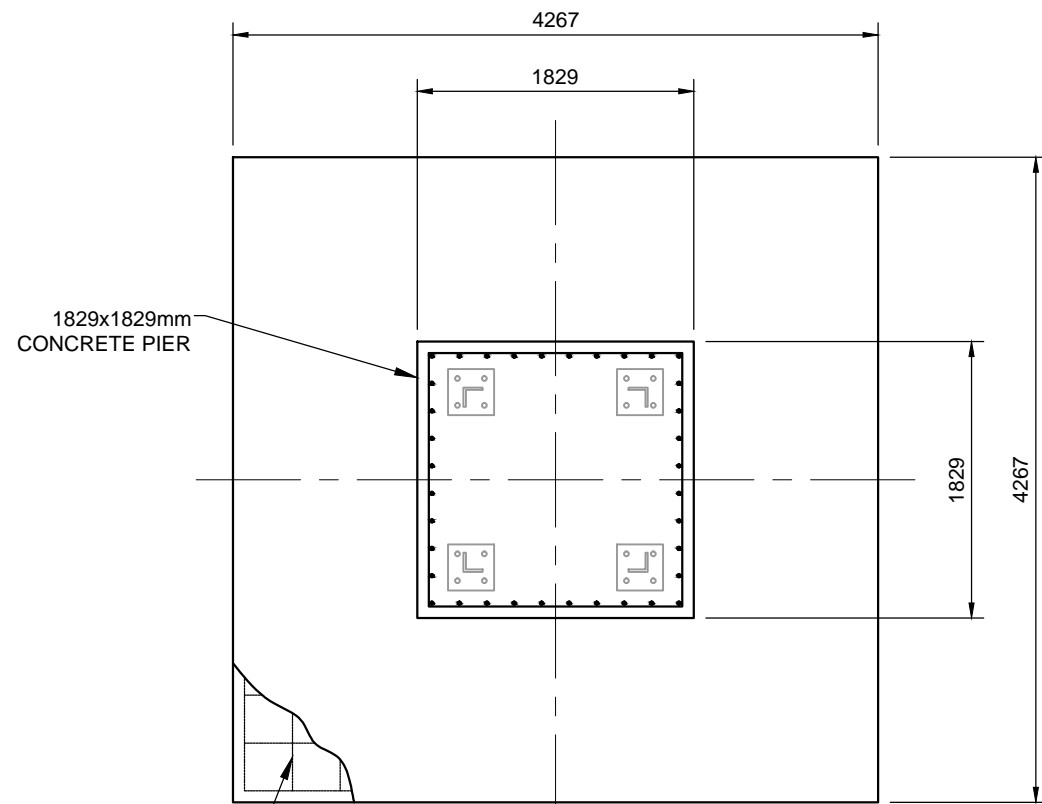
Project Name and Address

16.8m SELF SUPPORT TOWER  
AMHERSTBURG  
FORT MALDEN RANGE REAR

Drawn by <b>DIV</b>	Approved by <b>MT</b>
Project number <b>LL668</b>	Date <b>02/25/2020</b>
Drawing number <b>LL668-GN01-01</b>	Revision <b>0</b>

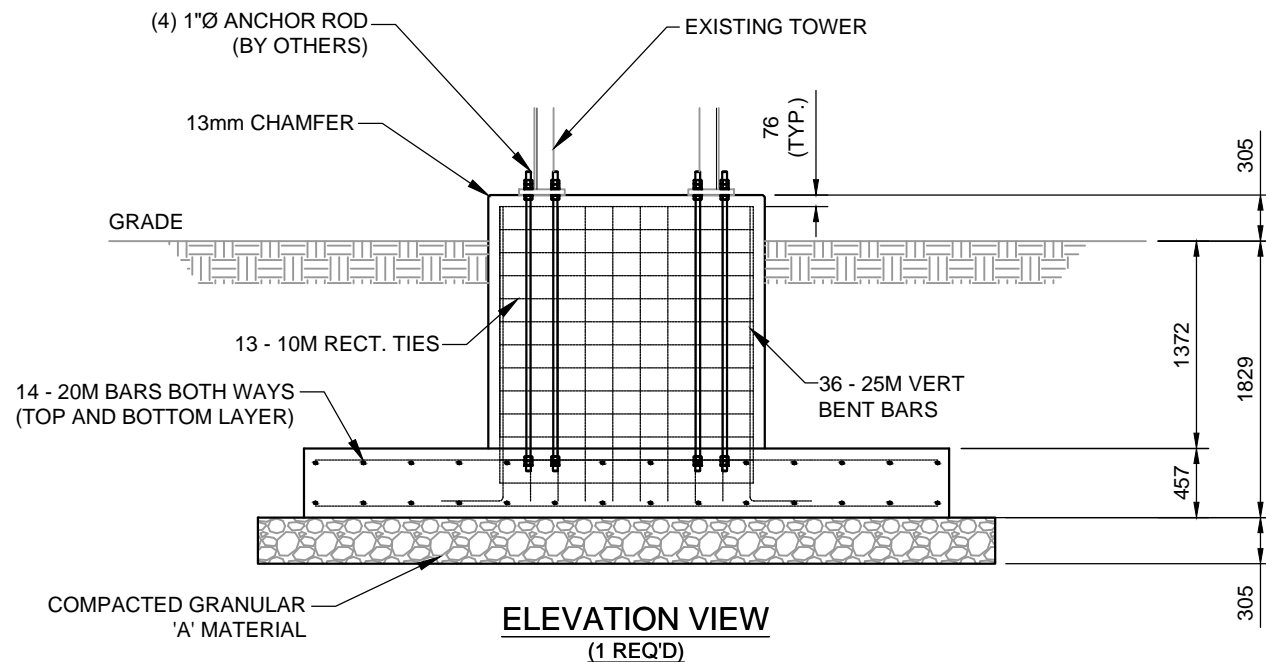
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  - 12.1. AXIAL = 95kN
  - 12.2. HORIZONTAL = 36kN
  - 12.3. MOMENT = 379kN-m



**PLAN VIEW**  
(1 REQ'D)

REINFORCING BAR CHART					
QTY	SIZE	DIM 'A'	DIM 'B'	SPACED	DESCRIPTION
36	25M	1948mm	406mm	182mm	
13	10M	1676mm	N/A	152mm	
56	20M	4115mm	N/A	317mm	



**ELEVATION VIEW**  
(1 REQ'D)

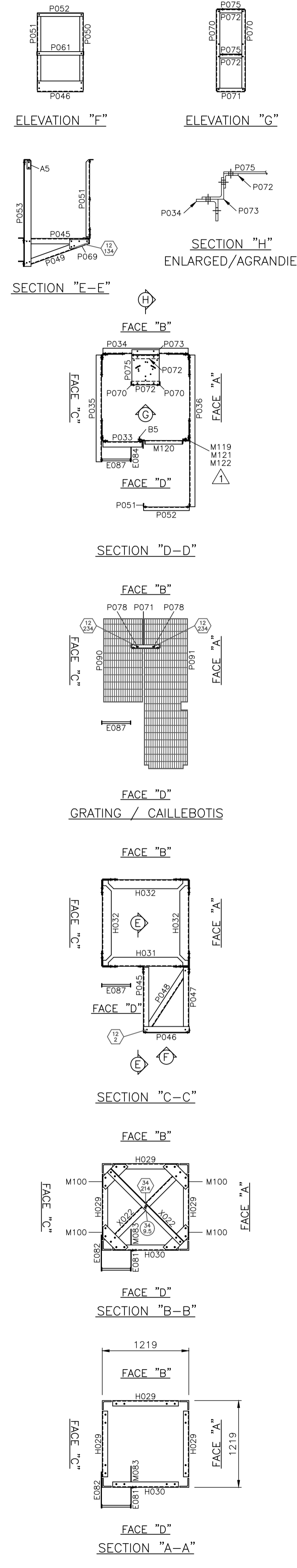
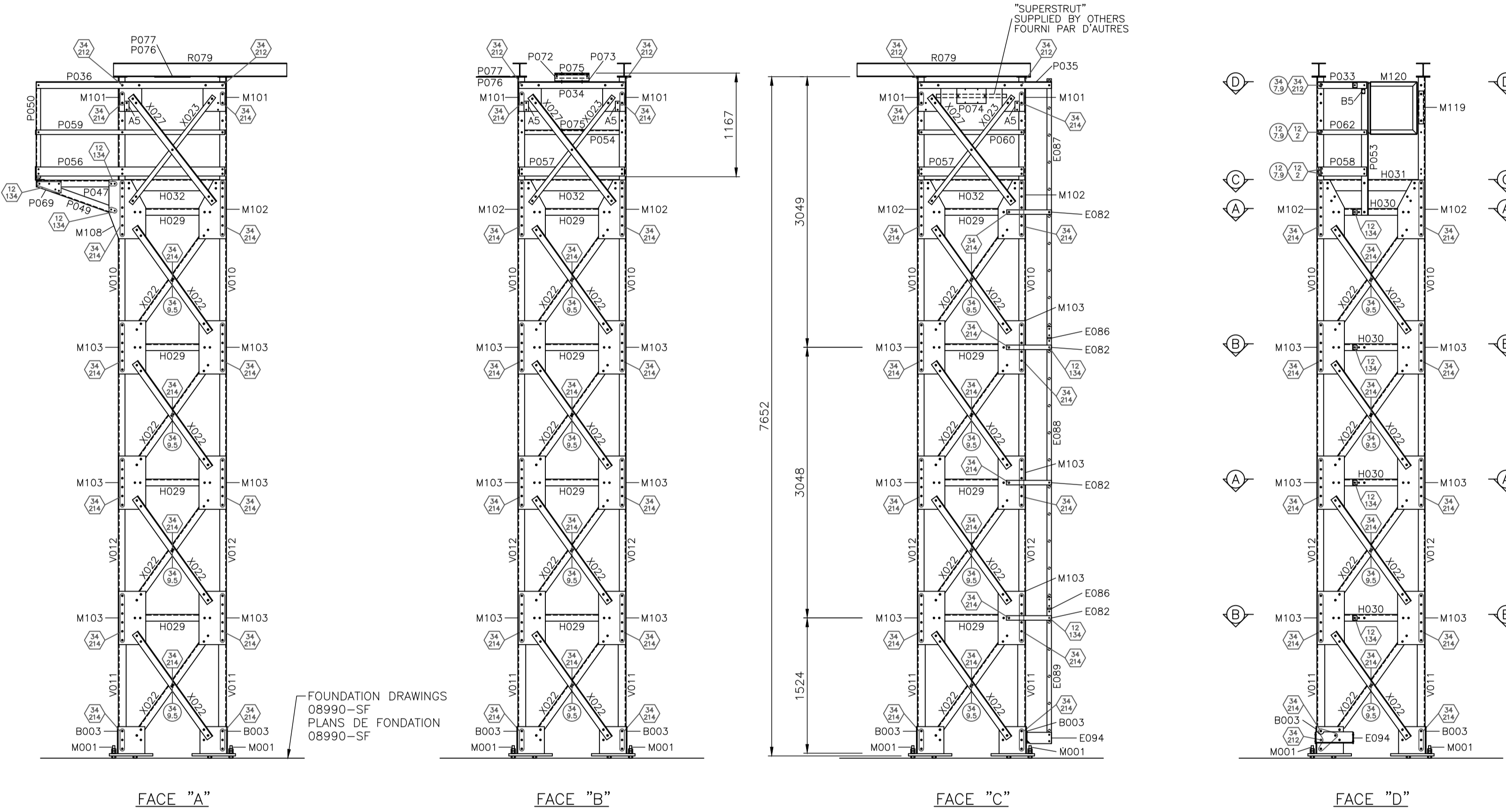
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N1R 8J6  
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Drawing Name	INSTALLATION FOUNDATION DETAILS
Project Name and Address	16.8m SELF SUPPORT TOWER AMHERSTBURG FORT MALDEN RANGE REAR

Drawn by <b>DIV</b>	Approved by <b>MT</b>
Project number <b>LL668</b>	Date <b>02/25/2020</b>
Drawing number <b>LL668-FD01-01</b>	Revision <b>0</b>



MRQ	QTY	DESCRIPTION	WEIGHT
MQE	QTÉ	DESCRIPTION	MASSE
M001	8	ANCHORS/ANCRAGES 25#	35.2
B003	4	BASE ASS./ASS. BASE	215.2
V010	4	L-76x76x9.5x3038	139.2
V011	4	L-76x76x9.5x1514	67.2
V012	4	L-76x76x9.5x3038	134.4
X022	36	L-76x76x7.9x1450	457.2
X023	3	FB-6.4x51x1525	12.0
X027	3	L-76x76x7.9x1525	40.2
H029	12	L-76x76x7.9x925	97.2
H030	4	L-76x76x7.9x925	32.4
H031	1	L-127x127x7.9x1049	16.6
H032	3	L-127x127x7.9x1049	49.8
P033	1	L-76x76x7.9x549	5.2
P034	1	L-76x76x7.9x1199	11.3
P035	1	L-76x76x7.9x1500	14.1
P036	1	L-76x76x7.9x2132	20.1
P045	1	L-76x76x7.9x909	8.6
P046	1	L-152x89x7.9x644	9.7
P047	1	L-76x76x7.9x909	8.6
P048	1	L-76x76x7.9x1033	9.7
P049	2	L-76x76x7.9x755	14.2
P050	1	L-51x51x6.4x1082	5.3
P051	1	L-51x51x6.4x1082	5.3
P052	1	L-51x51x6.4x644	3.2
P053	1	L-102x76x7.9x1499	16.6
P054	1	L-51x51x6.4x1179	5.8
P056	1	FB-6.4x102x2122	11.1
P057	2	FB-6.4x102x1179	12.4
P058	1	FB-6.4x102x539	2.8
P059	1	FB-6.4x51x2122	5.6
P060	1	FB-6.4x51x1179	3.1
P061	1	FB-6.4x51x644	1.7
P062	1	FB-6.4x51x539	1.4
P069	2	FB-9.5x127x270	4.2
P070	2	L-51x51x6.4x1139	11.2
P071	1	L-51x51x6.4x385	1.9
P072	3	L-51x51x6.4x385	5.7
P073	1	L-76x76x7.9x385	3.6
P074	1	PL-3.2x170x330	1.4
P075	2	PL-6.35x385x419	16.6
P076	1	PL-6.4x400x565	11.7
P077	1	PL-4.8x356#	3.9
P078	2	FB-6.4x64x64	0.4
R079	2	W-150x22x1952	90.0
E081	4	FB-6.4x51x259	3.6
E082	4	FB-6.4x51x508	5.2
M083	4	FB-6.4x51x377	4.0
E084	1	FB-6.4x51x315	0.8
E086	4	FB-6.4x51x259	2.8
E087	1	LADDER/ÉCHELLEx2915	31.7
E088	1	LADDER/ÉCHELLEx3035	32.3
E089	1	LADDER/ÉCHELLEx1511	16.1
P090	1	GRATING/CAIL. 548x1173	28.8
P091	1	GRATING/CAIL. 608x2110	57.5
E094	1	L-127x127x7.9x414	12.0
M100	8	FB-9.5x152x446	36.0
M101	6	FB-9.5x254x335	39.6
M102	7	FB-9.5x305x662	95.2
M103	24	FB-9.5x305x600	340.8
M108	1	PL-9.5x415x662	18.0
M119	1	FB-6.4x51x370	1.3
M120	1	GATE/BARRIERE	11.8
M121	1	PIN/TIGE 12.7#x370	0.2
M122	1	SPRING/RESSORT	0.05
E123	10	FB-9.5x51x390	-
E124	8	FIXATION POUR BOITE	-
E125	2	FIXATION POUR CAPTEUR	-
A5	5	D-RING "SALA" #2101636	2.5
B5	1	LATCH/LOQUET "STANLEY" #76-3827	0.25
	4	S.S. BOLTS/BOULONS INOXYDABLES 3/16" X 3/4" WITH/AVEC NUTS & WASH./ÉCROUS & ROND.	-
	303	BOLTS/BOULONS 3/4" X 2"	82.5
	271	BOLTS/BOULONS 3/4" X 2 1/4"	78.4
	9	BOLTS/BOULONS 3/4" X 2 1/2"	2.7
	583	LOCK W./R. DE BLOCAGE 3/4"	17.3
	19	R. FILLS/ESPACEURS 3/4" X 9.5	1.8
	2	R. FILLS/ESPACEURS 3/4" X 7.9	0.2
	124	BOLTS/BOULONS 1/2" X 1 1/2"	11.2
	23	BOLTS/BOULONS 1/2" X 1 3/4"	2.2
	5	BOLTS/BOULONS 1/2" X 2"	0.5
	3	BOLTS/BOULONS 1/2" X 2 3/4"	0.4
	155	LOCK W./R. DE BLOCAGE 1/2"	1.5
	4	R. FILLS/ESPACEURS 1/2" X 7.9	0.2
	20	CLIPS/ATTACHES TYPE "D-19"	0.5
	20	BOLTS/BOULONS 5/16" X 2 1/2"	0.5
TOTAL WEIGHT / MASSE TOTALE :			2563.4 kg

**BILL OF MATERIAL LISTE DE MATÉRIEL**

**NOTES**

- CAPACITÉ DE LA STRUCTURE AUX POINTS D'ANCRAGE = 18 kN
- ANNEAU DE SÉCURITÉ "D-RING":
  - CAPACITÉ MAXIMALE = 140 kg.
  - HAUTEUR DE CHÛTE LIBRE MAXIMALE = 1.8m.
  - JAMAIS PLUS D'UN SYSTÈME DE PROTECTION PERSONNEL À LA FOIS
- L'ÉCHELLE DOIT ÊTRE MUNIE D'UN RAIL DE SÉCURITÉ "MILLER SHURE TRACK" (OU UN ÉQUIVALENT APPROUVÉ PAR LA GCC) AVEC TOUTE LA QUINCAILLERIE REQUISE POUR SON INSTALLATION.
- NUANCE D'ACIER:
  - TOUS LES ÉLÉMENTS 300 Mpa SAUF LES ÉLÉMENTS SUIVANTS: LES CORNIÈRES: 350 Mpa LES PROFILS W: 350 Mpa
- TOUS LES BOULONS SELON ASTM A-325, TYPE 1.
- TOUTES LES RONDELLES DE BLOCAGE SELON ASME B18.21.1
- TOUS LES ESPACEURS ANNULAIRES SELON ANSI B18.22.1
- LONGUEUR DES BOULONS:
  - 2" LG POUR BOULON 3/4", S.I.C.
  - 1 1/2" LG POUR BOULON 1/2", S.I.C.
- TOUTES LES QUANTITÉS DE BOULON INCLUENT UN SURPLUS DE 5 %.
- CAPACITY OF THE STRUCTURE AT ANCHOR POINTS = 18 kN
- SECURITY RINGS "D-RING":
  - MAXIMUM CAPACITY = 140 kg.
  - MAXIMUM FALLING HEIGHT = 1.8m.
  - NEVER MORE THAN ONE PERSONAL SECURITY SYSTEM AT THE SAME TIME
- THE LADDER SHOULD BE EQUIPPED WITH A SAFETY RAIL "MILLER SHURE TRACK" MODEL 8631 (OR EQUIVALENT APPROVED BY CGC) WITH ALL HARDWARE REQUIRED FOR MOUNTING.
- STEEL GRADE:
  - ALL MEMBERS 300 Mpa EXCEPT FOR: ANGLES: 350 Mpa W SHAPE: 350 Mpa
- ALL BOLTS ACCORDING TO ASTM A-325, TYPE 1.
- ALL LOCK WASHERS ACCORDING TO ASME B18.21.1
- ALL RING FILLS ACCORDING TO ANSI B18.22.1
- BOLT LENGTH:
  - 2" LG FOR 3/4" BOLT, U.N.
  - 1 1/2" LG FOR 1/2" BOLT, U.N.
- ALL BOLT QUANTITIES INCLUDE 5 % EXTRA.

Revisión	Description	Par/By	Date
1	MAJ PIÈCE 2101630 POUR 2101636	J.D.	2018-09
2	MISE À JOUR	SU	2014.02.12
3	PIÈCES AJOUTÉES / ADDED MATERIAL	GCC	2010.11.30
4	NOTES CHANGED / NOTES CHANGÉES	M.V.	2006.03.23
5	M122 ADDED/M122 AJOUTÉ	M.V.	2006.03.13

**A: Numéro du détail**  
**B: Feuille sur laquelle le détail est référencé**  
**C: Feuille sur laquelle le détail est dessiné**

**Toute modification doit être rapportée à:**  
 All modification must be reported to:

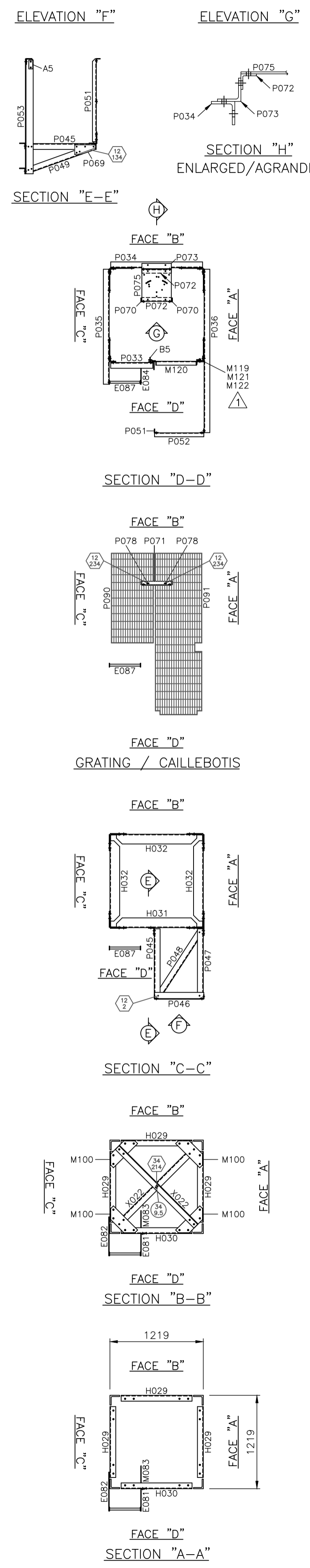
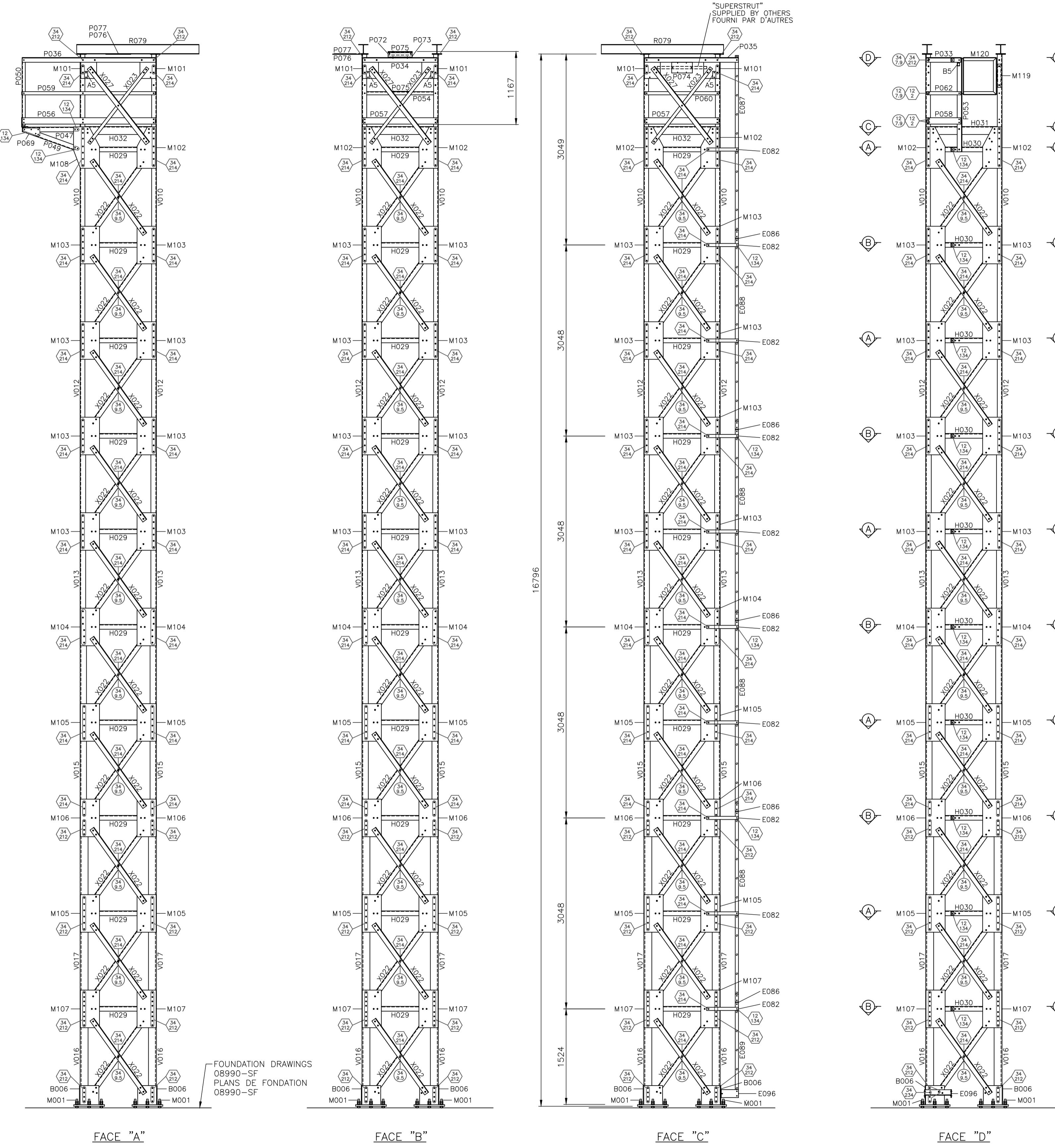
GARDE CÔTIÈRE, RÉGION LAURENTIENNE  
 SERVICES TECHNIQUES  
 Systèmes électroniques et informatiques  
 Informations Techniques et Graphiques

**Dossier:**  
 TouR D'ACIER À CLAIRE-VOIE  
 TOUR DE 3,05m (10pi) @ 24,42m (80pi)

**Dessin:**  
 TouR DE 7.65m (25pi)  
 PLAN DE MONTAGE

Congu par:	Date
Designed by: P-C.GAGNON, ing.	2003/05/30
Dessiné par:	Date
Drawn by: MICHEL VACHON	2006/02/08
Vérifié par:	Date
Verified by: MICHEL VACHON	2006/02/08
Approuvé par:	Date
Approved by:	

No. dossier:	Échelle:
File no.:	Scale:
	1 = 40
No. dessin:	No. feuille:
Drawing no.:	Sheet no.:
08990	SM-04



BILL OF MATERIAL		LISTE DE MATÉRIEL	
MRK	QTY	DESCRIPTION	WEIGHT MASSE
M001	24	ANCHORS/ANCRES 25#	105.6
B006	4	BASE ASS./ASS. BASE	215.2
V010	4	L-76x76x9.5x3038	139.2
V012	4	L-76x76x9.5x3038	134.4
V013	4	L-89x89x9.5x3038	158.4
V015	4	L-102x102x12.7x3038	240.0
V016	4	L-127x127x15.9x3038	186.8
V017	4	L-127x127x15.9x3038	374.8
X023	90	L-76x76x7.9x1450	1143.0
X022	3	FB-6.4x51x1525	12.0
X027	3	L-76x76x7.9x1525	40.2
H029	30	L-76x76x7.9x925	243.0
H030	10	L-76x76x7.9x925	81.0
H031	1	L-127x127x7.9x1049	16.6
H032	3	L-127x127x7.9x1049	49.8
P033	1	L-76x76x7.9x549	5.2
P034	1	L-76x76x7.9x1199	11.3
P035	1	L-76x76x7.9x1500	14.1
P036	1	L-76x76x7.9x2132	20.1
P045	1	L-76x76x7.9x909	8.6
P046	1	L-152x89x7.9x644	9.7
P047	1	L-76x76x7.9x909	8.6
P048	1	L-76x76x7.9x1033	9.7
P049	2	L-76x76x7.9x755	14.2
P050	1	L-51x51x6.4x1082	5.3
P051	1	L-51x51x6.4x1082	5.3
P052	1	L-51x51x6.4x644	3.2
P053	1	L-102x76x7.9x1499	16.6
P054	1	L-51x51x6.4x1179	5.8
P056	1	FB-6.4x102x2122	11.1
P057	2	FB-6.4x102x1179	12.4
P058	1	FB-6.4x102x539	2.8
P059	1	FB-6.4x51x2122	5.6
P060	1	FB-6.4x51x1179	3.1
P061	1	FB-6.4x51x644	1.7
P062	1	FB-6.4x51x539	1.4
P069	2	FB-9.5x127x270	4.2
P070	2	L-51x51x6.4x1139	11.2
P071	1	L-51x51x6.4x385	1.9
P072	3	L-51x51x6.4x385	5.7
P073	1	L-76x76x7.9x385	3.6
P074	1	PL-3.2x170x330	1.4
P075	2	PL-6.35x385x419	16.6
P076	1	PL-6.4x400x565	11.7
P077	1	PL-4.8x356#	3.9
P078	2	FB-6.4x64x64	0.4
R079	2	W-150x22x1952	90.0
E081	10	FB-6.4x51x259	9.0
E082	10	FB-6.4x51x508	13.0
M083	10	FB-6.4x51x377	10.0
E084	1	FB-6.4x51x315	0.8
E086	10	FB-6.4x51x259	7.0
E087	1	LADDER/ÉCHELLEx2915	31.7
E088	4	LADDER/ÉCHELLEx3035	129.2
E089	1	LADDER/ÉCHELLEx1511	16.1
P090	1	GRATING/CAIL. 548x1173	28.8
P091	1	GRATING/CAIL. 608x2110	57.5
E096	1	L-127x89x7.9x414	10.9
M100	20	FB-9.5x152x446	90.0
M101	6	FB-9.5x254x335	39.6
M102	7	FB-9.5x305x662	95.2
M103	32	FB-9.5x305x600	454.4
M104	8	FB-9.5x305x600	113.6
M105	16	FB-9.5x305x600	227.2
M106	8	FB-9.5x305x600	113.6
M107	8	FB-9.5x305x600	113.6
M108	1	PL-9.5x415x662	18.0
M119	1	FB-6.4x51x370	1.3
M120	1	GATE/BARRIÈRE	11.8
M121	1	PIN/TIGE 12.7#x370	0.2
M122	1	SPRING/RESSORT	0.05
E123	10	FB-9.5x51x390	-
E124	8	FIXATION POUR BOITE	-
E125	2	FIXATION POUR CAPTEUR	-
A5	5	D-RING "SALA" #2101636	2.5
B5	1	LATCH/LOQUET "STANLEY" #78-3827	0.25
	4	S.S. BOLTS/BOLONS INOXYDABLES 3/16" X 3/4" WITH/AVEC NUTS & WASH./ECROUS & ROND.	
	676	BOLTS/BOLONS 3/4" X 2"	184.0
	457	BOLTS/BOLONS 3/4" X 2 1/4"	132.2
	192	BOLTS/BOLONS 3/4" X 2 1/2"	58.3
	2	BOLTS/BOLONS 3/4" X 2 3/4"	0.6
	1327	LOCK W./R. DE BLOCAGE 3/4"	39.4
	47	R. FILLS/ESPACEURS 3/4" X 9.5	4.4
	2	R. FILLS/ESPACEURS 3/4" X 7.9	0.2
	151	BOLTS/BOLONS 1/2" X 1 1/2"	13.6
	36	BOLTS/BOLONS 1/2" X 1 3/4"	3.5
	5	BOLTS/BOLONS 1/2" X 2"	0.5
	3	BOLTS/BOLONS 1/2" X 2 3/4"	0.4
	195	LOCK W./R. DE BLOCAGE 1/2"	1.9
	4	R. FILLS/ESPACEURS 1/2" X 7.9	0.2
	20	CLIPS/ATTACHES TYPE "D-19"	0.5
	20	BOLTS/BOLONS 5/16" X 2 1/2"	0.5
TOTAL WEIGHT / MASSE TOTALE :			5501.9 kg

**Pêches et Océans Canada / Fisheries and Oceans Canada**  
 Garde côtière / Coast Guard

Services techniques  
 Systèmes électroniques et informatiques  
 Informations techniques et graphiques

101 Boulevard Champlain (étage 18)  
 Québec (Québec) G1K 7T7

**NOTES**

- CAPACITÉ DE LA STRUCTURE AUX POINTS D'ANCRAGE = 18 kN
- ANNEAUX DE SÉCURITÉ "D-RING":  
 -CAPACITÉ MAXIMALE = 140 kg.  
 -HAUTEUR DE CHÛTE LIBRE MAXIMALE = 1.8m.  
 -JAMAIS PLUS D'UN SYSTÈME DE PROTECTION PERSONNEL À LA FOIS
- L'ÉCHELLE DOIT ÊTRE MUNIE D'UN RAIL DE SÉCURITÉ "MILLER SHURE TRACK" (OU UN ÉQUIVALENT APPROUVÉ PAR LA GCC) AVEC TOUTE LA QUINCAILLERIE REQUISE POUR SON INSTALLATION.
- NUANCE D'ACIER:  
 TOUS LES ÉLÉMENTS 300 Mpa SAUF LES ÉLÉMENTS SUIVANTS:  
 LES CORNIÈRES: 350 Mpa  
 LES PROFILÉS W: 350 Mpa
- TOUS LES BOULONS SELON ASTM A-325, TYPE 1.  
 -TOUTES LES RONDELLES DE BLOCAGE SELON ASME B18.21.1  
 -TOUS LES ESPACEURS ANNULAIRES SELON ANSI B18.22.1
- LONGUEUR DES BOULONS:  
 2" LG POUR BOULON 3/4", S.I.C.  
 1 1/2" LG POUR BOULON 1/2", S.I.C.
- TOUTES LES QUANTITÉS DE BOULON INCLUENT UN SURPLUS DE 5 %.

**REVISION**

No.	Description	Par/By	Date
1	M122 ADDED/M122 AJOUTÉ	M.V.	2006.03.13

**MAJ PIÈCE 2101630 POUR 2101636** J.D. 2018-09  
**MISE À JOUR** SUI 2014.02.12  
**PIÈCES AJOUTÉES / ADDED MATERIAL** GCC 2010.11.30  
**NOTES CHANGED / NOTES CHANGÉES** M.V. 2006.03.23  
**M122 ADDED/M122 AJOUTÉ** M.V. 2006.03.13

Toute modification doit être rapportée à:  
 All modification must be reported to:

GARDE CÔTIÈRE, RÉGION LAURENTIENNE  
 SERVICES TECHNIQUES  
 Systèmes électroniques et informatiques  
 Informations Techniques et Graphiques

**Dossier:**

**TOUR D'ACIER À CLAIRE-VOIE**  
 TOUR DE 3.05m (10pi) @ 24.42m (80pi)

**TOUR DE 16.80m (55pi)**  
 PLAN DE MONTAGE

Conçu par: P-C.GAGNON, ing. 2003/05/30  
 Dessiné par: MICHEL VACHON 2006/02/06  
 Vérifié par: MICHEL VACHON 2006/02/06

No. dossier: 08990  
 Échelle: 1 = 40  
 No. dessin: SM-10

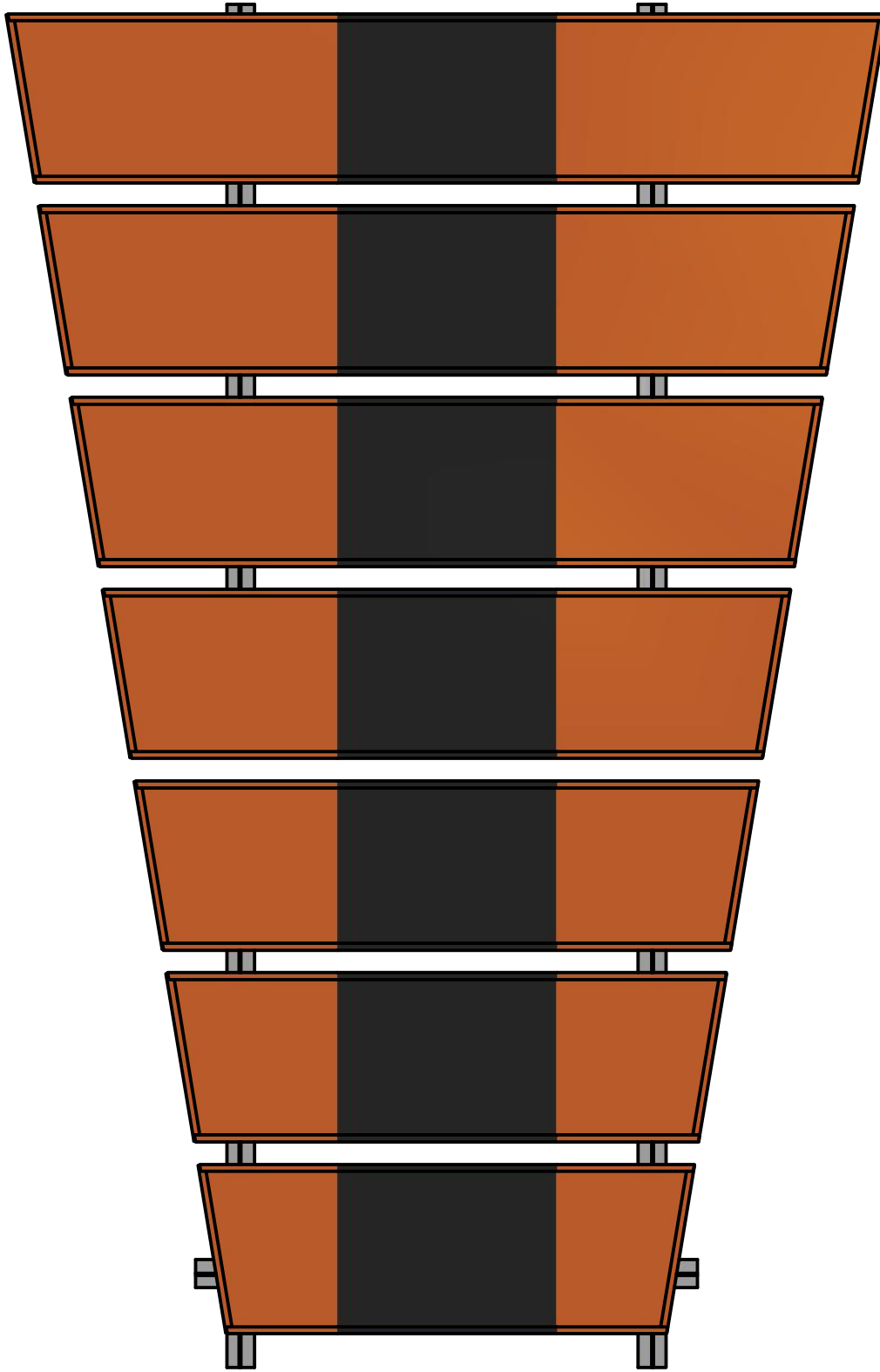


4

3

2


1



PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	DRAWING
1	112 ft	P1-P14	12" SIGNATURE ALUMINUM PANEL	3
2	142 ft	P15-P28, P31 & P32	3 1/2" 30ga STEEL ROOFING SHEET - ORANGE	4-5
3	37 ft	P29 & P30	3 1/2" 30ga STEEL ROOFING SHEET - BLACK	4
5	56 ft	P33-P39	24" 30ga STEEL ROOFING SHEET - ORANGE	6
6	19 ft	P40	24" 30ga STEEL ROOFING SHEET - BLACK	6
7	2	P41	BACK TO BACK 9' X 2" X 2" X 1/4" ALUMINUM ANGLES	7
8	2	P42	BACK TO BACK 7' X 2" X 2" X 1/4" ALUMINUM ANGLES	7
9	4	P43	BACK TO BACK 6' X 2" X 2" X 1/4" ALUMINUM ANGLES	7

**NOTES:**

SIGNATURE ALUMINUM PANELS REFER TO CUSTOM MADE 12" ALUMINUM PANELS FROM SIGNATURE ALUMINUM IN PICKERING, ON  
 ALL 3/8" x 1 1/4" CAP SCREWS TO BE STAINLESS STEEL OR CADMIUM COATED UNSPECIFIED SCREWS REFER TO 10-16 X 3/4" SELF TAPPING HEAD HEX SCREWS  
 FRONT DAYMARKS ARE CONSTRUCTED THE EXACT SAME, BUT THEY SHALL BE INSTALLED INVERSE TO WHAT IS SHOWN IN THESE PLANS  
 MOUNTING TO TOWER WILL BE SITE SPECIFIC  
 DAYMARK TO BE ASSEMBLED IN TWO SEPARATE PARTS FOR EASIER TRANSPORTATION AND/OR INSTALLATION

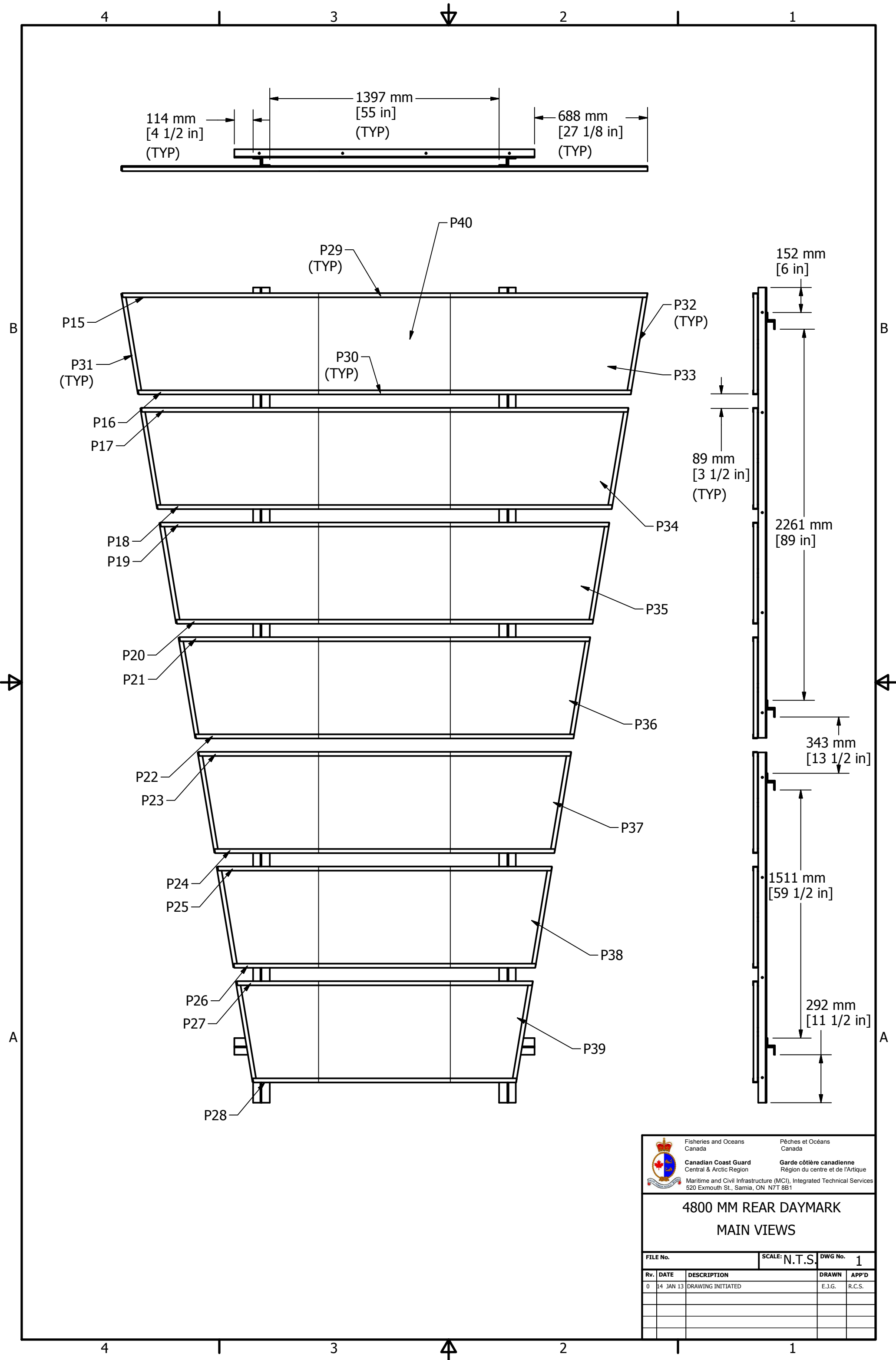
 Fisheries and Oceans Canada		Pêches et Océans Canada		
Canadian Coast Guard Central & Arctic Region		Garde côtière canadienne Région du centre et de l'Arctique		
Maritime and Civil Infrastructure (MCI), Integrated Technical Services 520 Exmouth St., Sarnia, ON N7T 8B1				
<b>4800 MM REAR DAYMARK</b> <b>PARTS LIST AND STRUCTURAL NOTES</b>				
FILE No.	SCALE: N.T.S.	DWG No.	0	
Rv.	DATE	DESCRIPTION	DRAWN	APP'D
0	14 JAN 13	DRAWING INITIATED	E.J.G.	R.C.S.


4

3

2

1



 Fisheries and Oceans Canada		Pêches et Océans Canada	
Canadian Coast Guard Central & Arctic Region		Garde côtière canadienne Région du centre et de l'Arctique	
Maritime and Civil Infrastructure (MCI), Integrated Technical Services 520 Exmouth St., Sarnia, ON N7T 8B1			
<b>4800 MM REAR DAYMARK</b> <b>MAIN VIEWS</b>			
FILE No.	SCALE: N.T.S.	DWG No.	1
Rv.	DATE	DESCRIPTION	DRAWN APP'D
0	14 JAN 13	DRAWING INITIATED	E.J.G. R.C.S.

4

3

2

1

3/8" x 1 1/4" CAP SCREWS  
CONNECTING P24 TO  
ALUM SHEETS (TYP)

3/8" x 1 1/4" CAP SCREWS  
CONNECTING P33 TO P31/P32  
(TYP)

P41

51 mm  
[2 in]

279 mm  
[11 in]  
(TYP)

305 mm  
[12 in]  
(TYP)

P1

P43 (TYP)

P2

P3

25 mm  
[1 in]  
(TYP)

114 mm  
[4 1/2 in]  
(TYP)

P4

P5

P6

P7

P8

P9

P42

P10

P11

P12

P13

140 mm  
[5 1/2 in]

140 mm  
[5 1/2 in]

P14

1549 mm  
[61 in]

140 mm  
[5 1/2 in]

B

B

A


A

4

3

2

1

 Fisheries and Oceans Canada		Pêches et Océans Canada	
Canadian Coast Guard Central & Arctic Region		Garde côtière canadienne Région du centre et de l'Arctique	
Maritime and Civil Infrastructure (MCI), Integrated Technical Services 520 Exmouth St., Sarnia, ON N7T 8B1			
<b>4800 MM REAR DAYMARK</b> <b>REAR ASSEMBLY INSTRUCTIONS</b>			
FILE No.	SCALE: N.T.S.	DWG No.	2
Rv.	DATE	DESCRIPTION	DRAWN APP'D
0	14 JAN 13	DRAWING INITIATED	E.J.G. R.C.S.