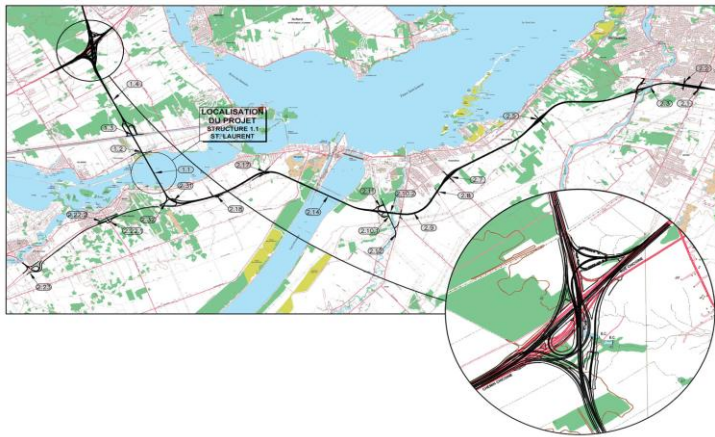


Technical Assistance in structural quantity surveying for A-30 Highway in Montreal



JOB
 09026 P.O.
 Montreal, Canada LOCATION
 UTE A30CVJ CLIENT
 ACCIONA + DRAGADOS
 6,971 m AREA / LENGTH
 1,200,000,000 € GLOBAL BUDGET
 - (OF THE TASKS UNDERTAKEN)
 Quantity surveying TASKS UNDERTAKEN
 2009-2010 DATE
 DESCRIPTION

The new A30 highway in Montreal has 43 km of new roads with a budget of approximately can\$ 1,6 billion. This project plans the construction of 33 bridges or grade crossings, a tunnel and various auxiliary works.

At the beginning of the works, 3D3 INGENIERÍA was hired by the contractor to do the quantity surveying of all the structures of the project and all the new ones defined during the execution in order to evaluate and / or verify the real quantities of the work items.

The following tasks have been performed:

- Measurements of all the project structures: all structural frames, slabs, foundations, etc have been measured, including areas of reinforcement, concrete consumption, separating the different execution phases of works.
- Implementation stages of bridge decks to evaluate the transport and assembly process.
- Other measurements and studies that have been done:
 - * Steel structure of 2.14 bridge deck, an incrementally launched bridge, over Beauharnois Channel in order to evaluate the maximum load allowance.
 - * Auxiliary structures for the bridge with a span of 150 meters over Beauharnois Channel.
 - * Landscaping and environmental impact barriers.
 - * Steel structure for the highway toll: main marquee, driveway and annex building.
 - * Retaining walls, sheet piling, etc..

All these measurements and/or evaluations are done in English or French according to the client requirements.



09026 STRUCTURES A-30 CVJ													DATE: 05/07/2010		
RÉSUMÉ TABLERS													RÉSUMÉ DE		
	BETON	BETON L.	COFFRAGE	ACIER ARMATURE	COUPEUR	ACIER STRUCTURA	PEINTURE	POITRE PERE.	DEMIDALLE PERE.	IMPRIM. MOISE	SUPERM. TABLERS	ENROBE	Quantita Acier Armature	Reparacion Bsc/Grado	Reparacion Acier Structural
	m³	m³	m²	kg	m²	kg	m²	m²	m²	m²	m²	m²	kg/m²	m²/m²	kg/m²
Pont 1.1	13758.87	0.00	13471.23	4047609.88	0.00	0.00	0.00	18104.10	28652.23	21872.80	21872.80	21872.80	204.22	0.58	-
Pont 1.2	168.25	0.00	434.10	847712.12	0.00	238037.41	223.44	0.00	131.88	1109.09	1109.09	1109.09	888.80	2.48	206.16
Pont 2.10.1	339.25	0.00	339.23	113321.99	0.00	0.00	0.00	893.20	1233.77	2307.73	2307.73	2307.73	212.97	0.94	-
Pont 2.10.2	359.11	0.00	339.99	846947.12	0.00	0.00	0.00	792.90	946.31	1348.74	1348.74	1348.74	312.62	0.90	-
Pont 2.11A	311.83	0.00	311.82	84441.50	0.00	0.00	0.00	430.12	563.49	84249.00	84249.00	84249.00	864.47	1.17	-
Pont 2.12A	263.83	0.00	263.79	874368.12	0.00	306370.89	8724.49	0.00	8978.72	303.25	303.25	303.25	126.38	0.18	331.14
Pont 2.14	13129.51	0.00	2273.97	4368953.56	0.00	7331942.30	118153.69	10826.49	4767938.60	84264.00	84264.00	84264.00	309.97	0.15	219.89
Pont 2.17A	244.60	0.00	31.04	33026.03	0.00	140370.84	130.20	0.00	482.09	890.09	890.09	890.09	149.41	0.15	190.51
Pont 2.18A	138.27	0.00	164.20	30893.72	0.00	135128.14	212.73	0.00	233.61	359.35	359.35	359.35	131.81	1.04	-
Pont 2.22.1	123.73	0.00	129.80	40376.22	0.00	0.00	0.00	216.48	183.09	436.23	436.23	436.23	278.77	1.02	-
Pont 2.22.2	143.27	0.00	148.25	40436.22	0.00	0.00	0.00	216.48	183.09	436.23	436.23	436.23	278.77	1.02	-
Pont 2.23	353.03	0.00	339.11	89711.24	0.00	0.00	0.00	469.71	671.31	1298.60	1298.60	1298.60	230.02	1.12	-
Pont 2.31	169.63	0.00	276.24	30250.40	0.00	0.00	0.00	340.34	276.44	617.83	617.83	617.83	310.81	1.70	-
Pont 2.32	228.30	0.00	331.22	38920.40	0.00	0.00	0.00	340.35	381.63	871.29	871.29	871.29	346.44	1.70	-
TOTAL	39215.15	0.00	31145.66	10701317.77	0.00	9695145.24	149672.78	37413.65	4813043.78	125768.58	90448.93	95771.37	231.09	1.59	224.79