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exp Project No. FRE-00214763-A5

BUILDINGS · EARTH & ENVIRONMENT  
 · ENERGY · INDUSTRIAL · INFRASTRUCTURE · SUSTAINABILITY

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0	RELEASED FOR CONSTRUCTION	01/29/2016
revisions		date
project		project

**NEW G.O.C.B SAINT-LÉONARD NEW BRUNSWICK**

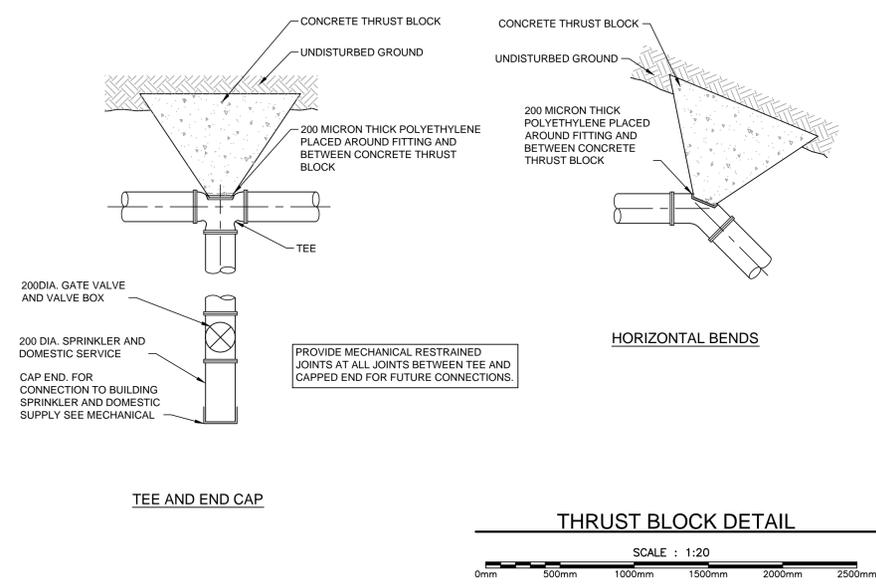
drawing design

**MISCELLANEOUS DETAILS**

designed	BCA	conçu
date	JANUARY 29, 2016	
drawn	PD	dessiné
date	JANUARY 29, 2016	
approved	DAG	approuvé
date	FEBRUARY 17, 2016	
Tender		Submission

PWSC Project Manager / Administrateur de projets TPSCG  
 project number / no. du projet  
**R.069499.001**

drawing no. / no. du dessin  
**201-5**

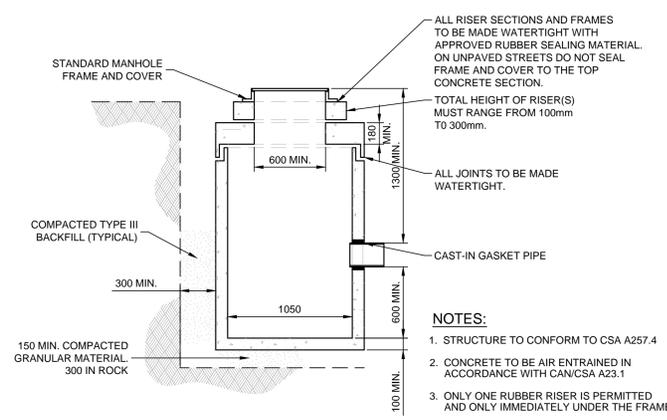


**MINIMUM CONTACT AREAS FOR HORIZONTAL CONCRETE THRUST BLOCKS**

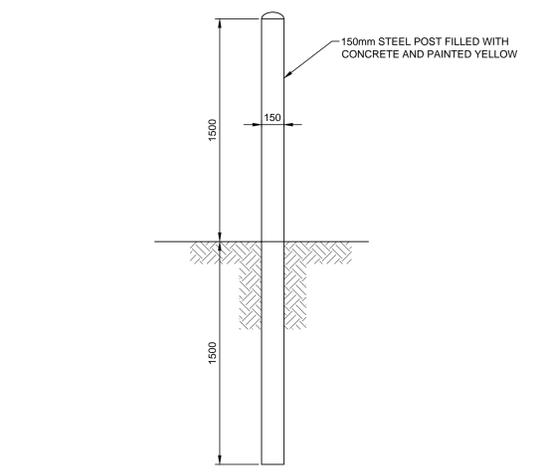
PIPE DIA. mm	AREA, m <sup>2</sup> FOR SOIL SUPPORTING CAPACITY OF 100 kPa*					
	CAP/PLUG	TEE	90° BEND	45° BEND	22.5° BEND	11.25° BEND
100	0.25	0.25	0.32	0.20	0.16	0.16
150	0.48	0.48	0.64	0.40	0.24	0.16
200	0.80	0.80	1.12	0.64	0.32	0.16
250	1.28	1.28	1.76	0.96	0.48	0.24
300	1.76	1.76	2.56	1.44	0.72	0.40

**MINIMUM DISTANCE FROM FITTING TO UNDISTURBED GROUND**

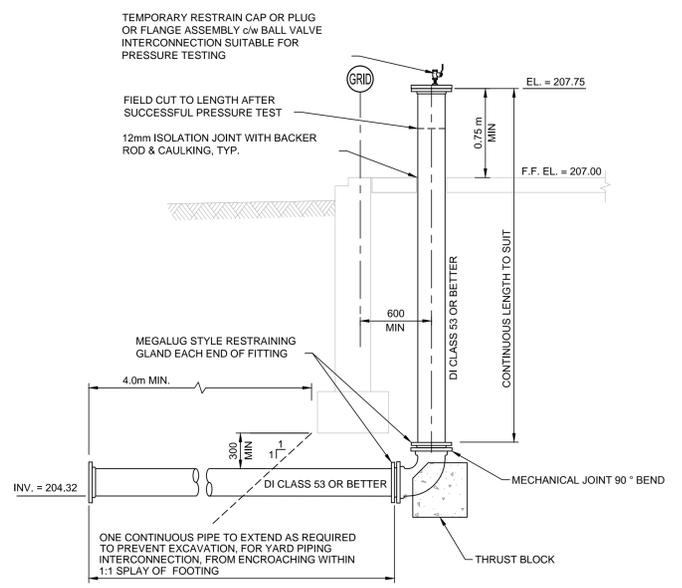
PIPE DIAMETER, mm	mm
100	450
150	450
200	450
250	600
300	750



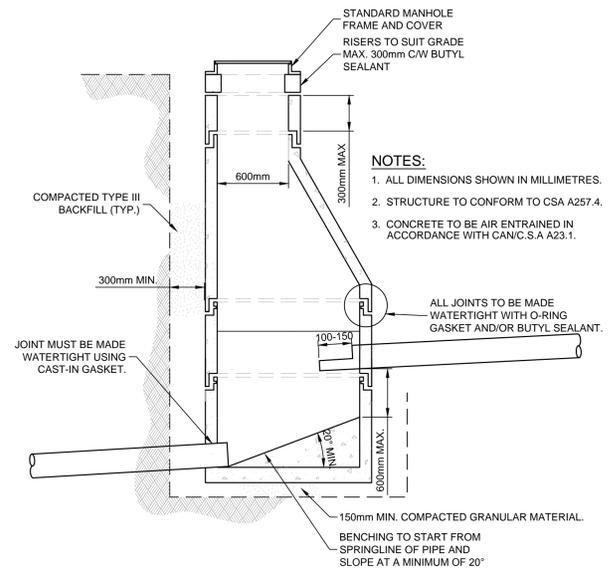
**TYPICAL CATCH BASIN MANHOLE DETAIL**  
 SCALE: 1:25



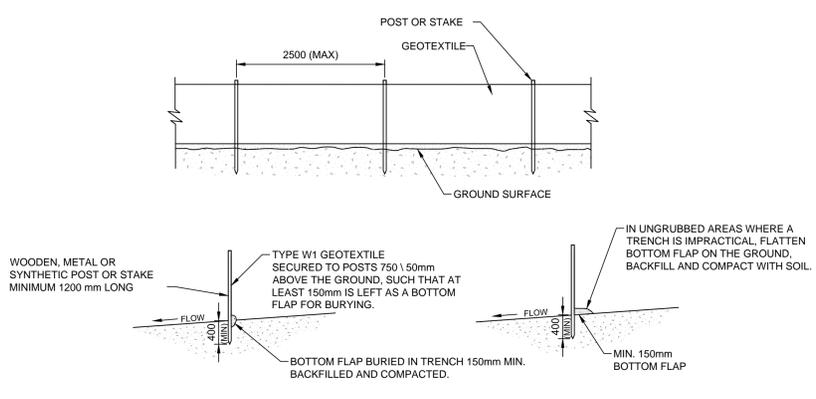
**BOLLARD DETAIL**  
 SCALE: 1:20



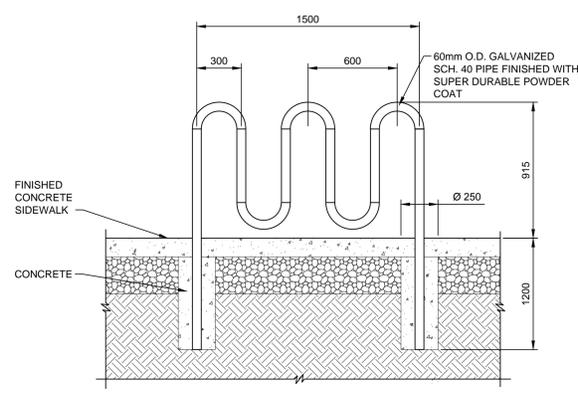
**WATER SUPPLY RISER DETAIL**  
 SCALE: 1:25



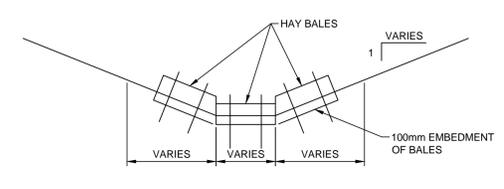
**TYPICAL SANITARY MANHOLE DETAIL**  
 SCALE: 1:25



**SEDIMENT FENCE DETAIL**  
 SCALE: 1:50



**BIKE RACK**  
 SCALE: 1:20



**CHECK DAM DETAIL**  
 SCALE: 1:50