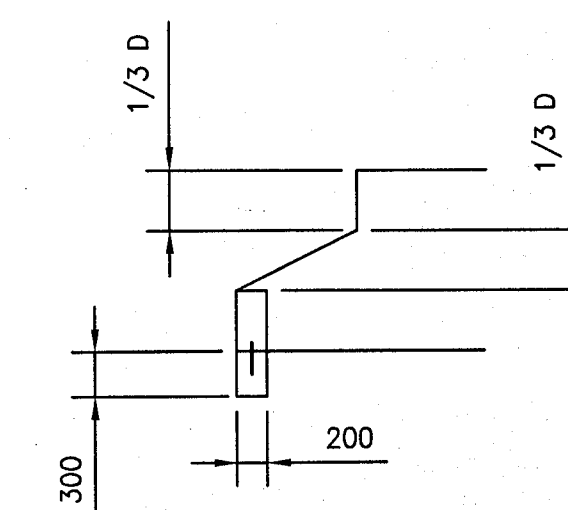
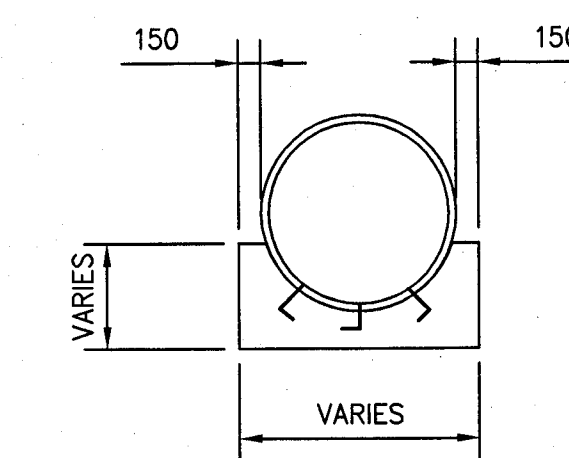
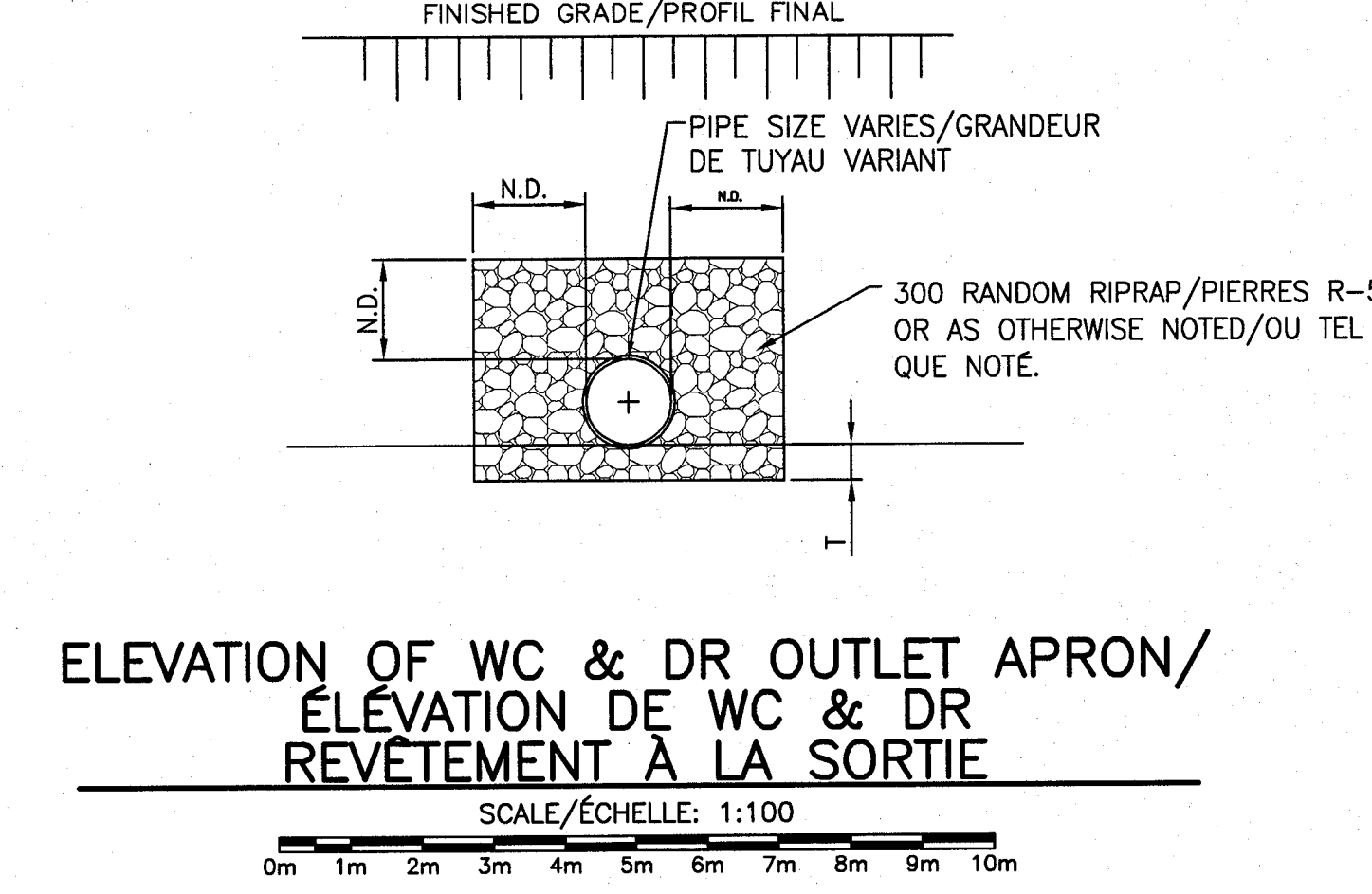
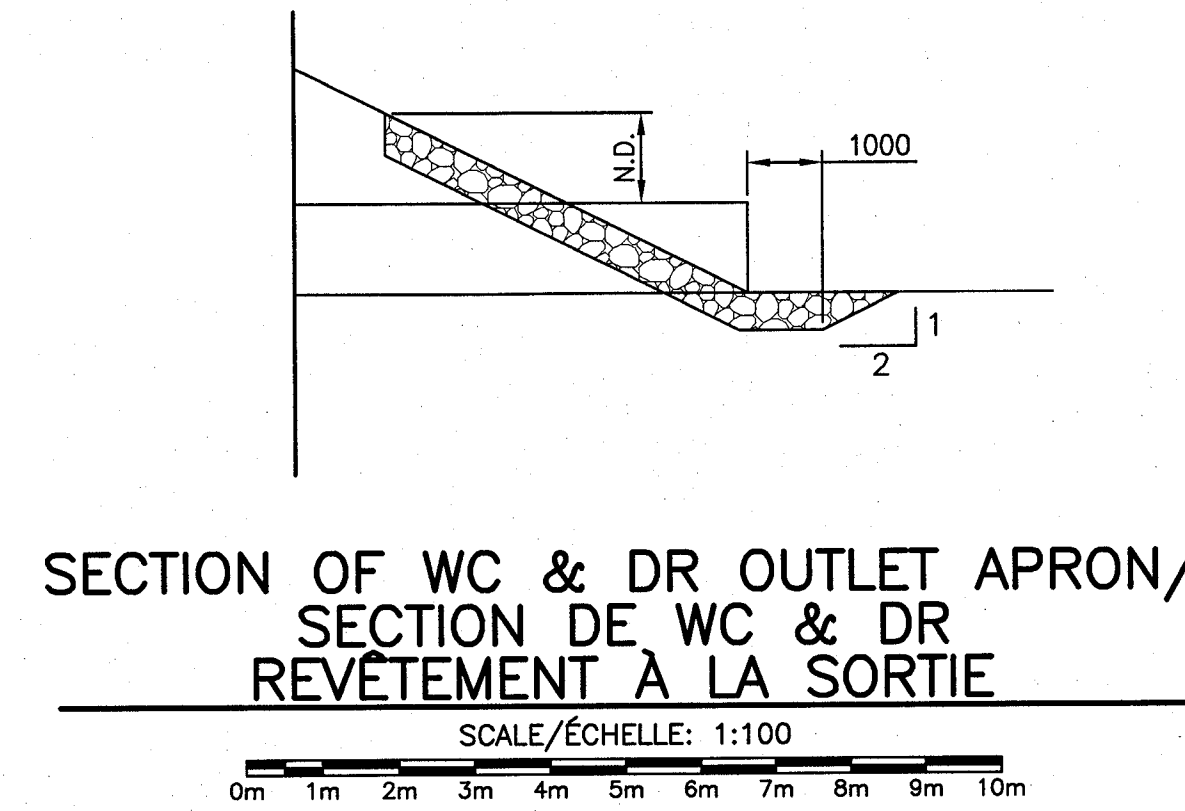
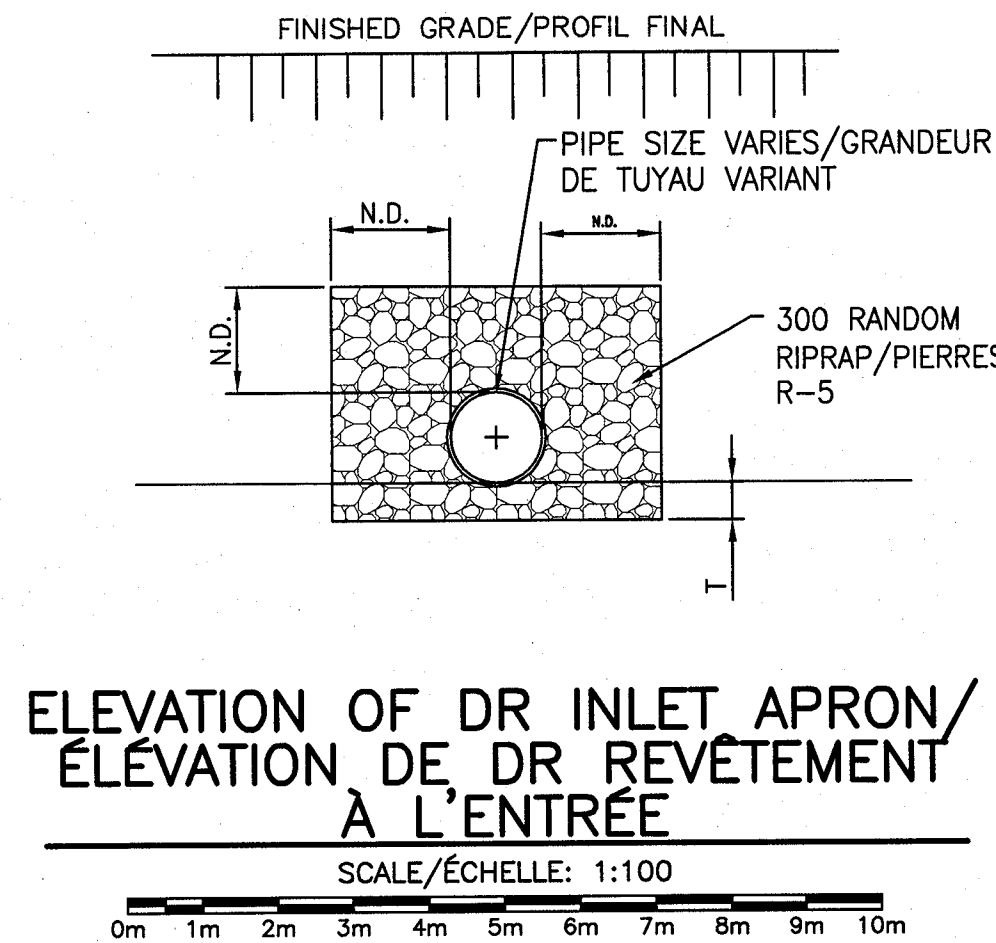
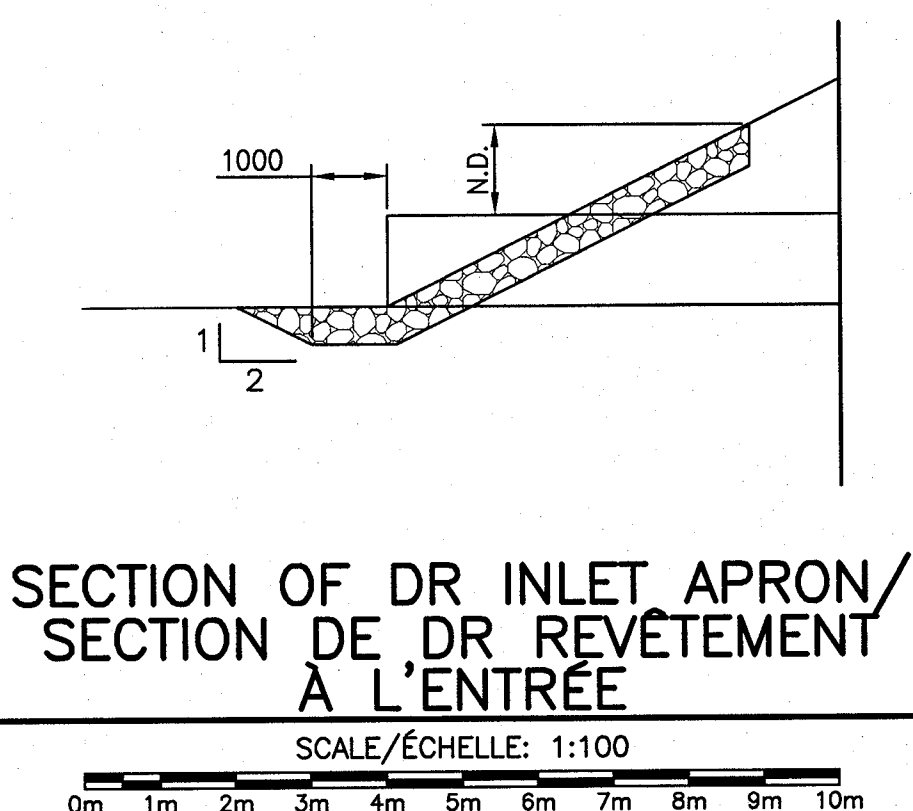
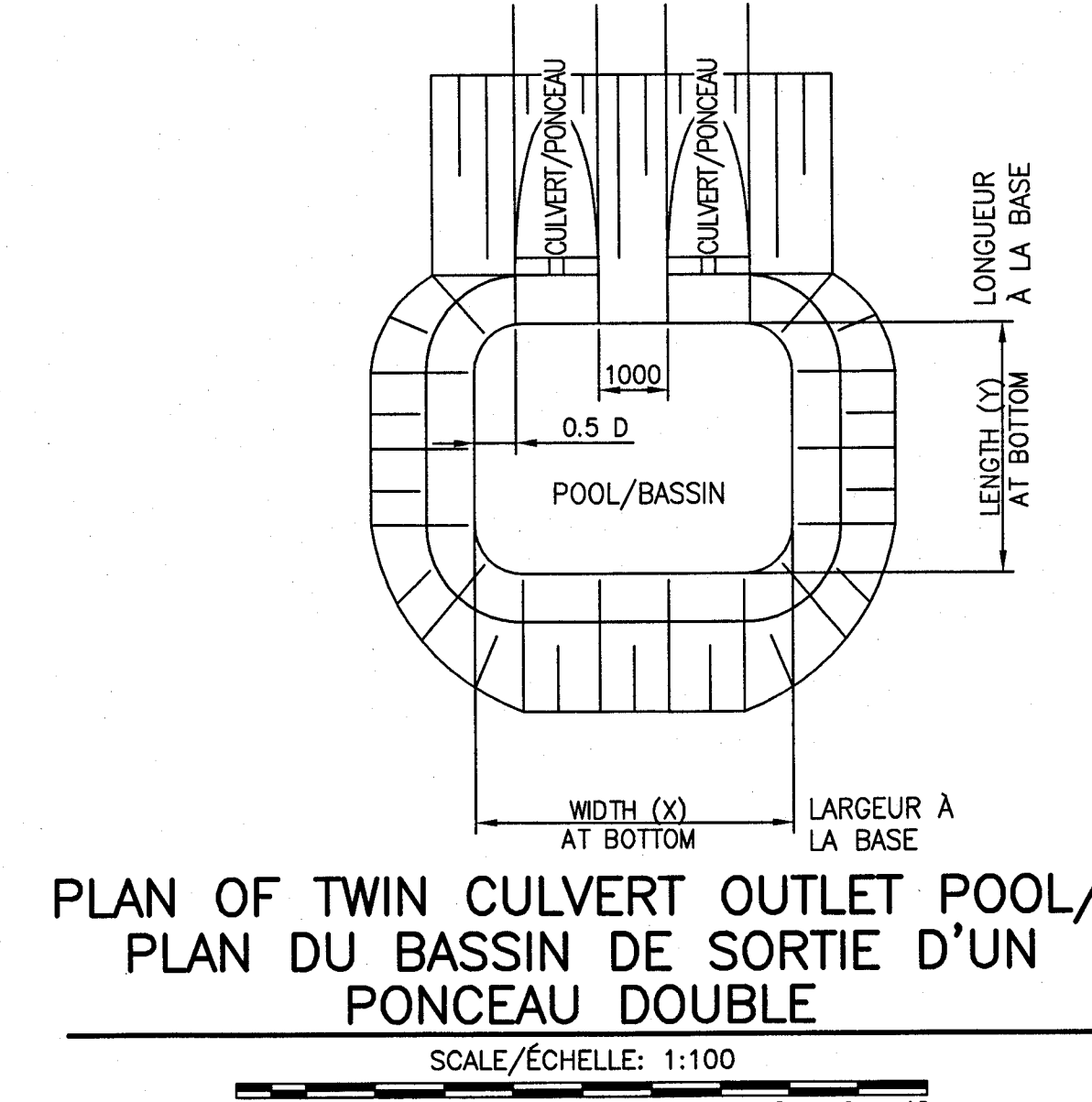
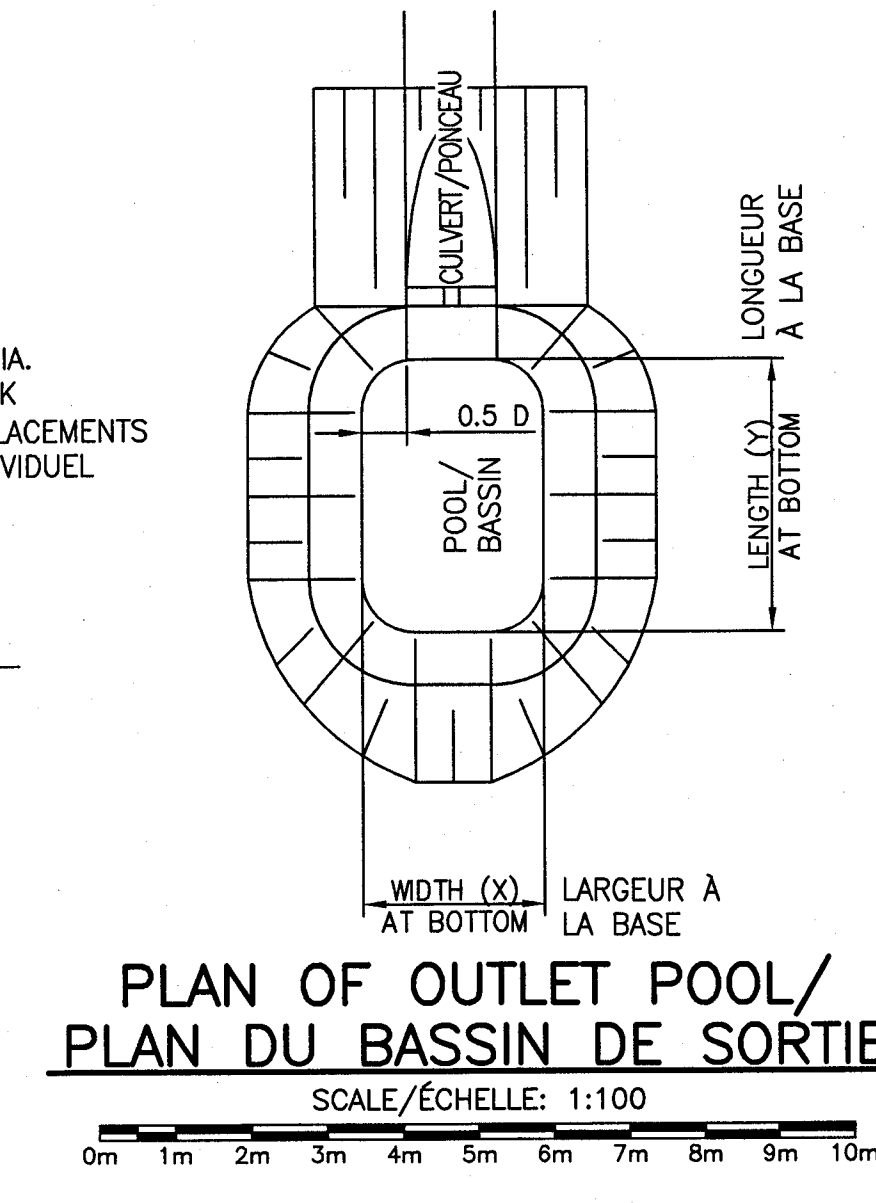
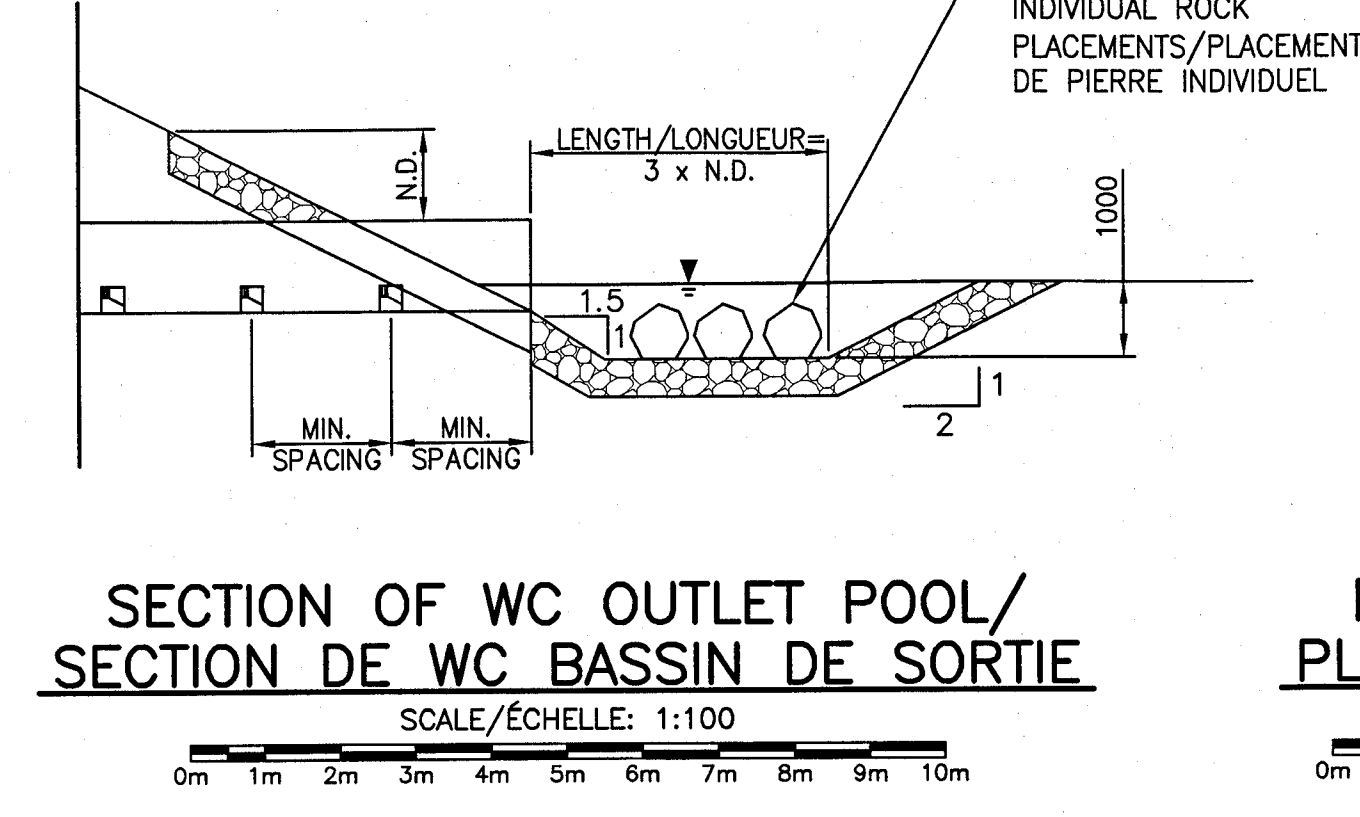
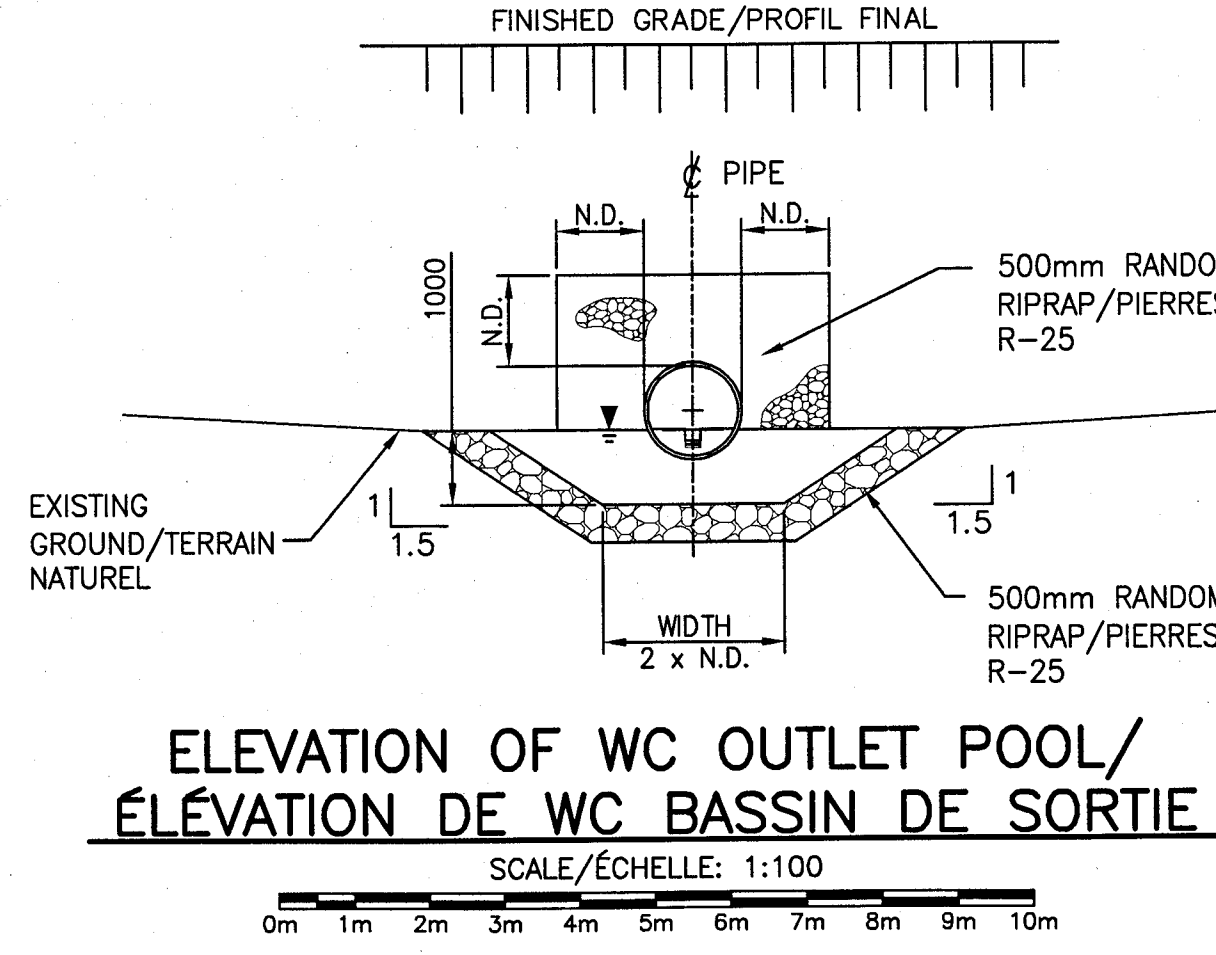
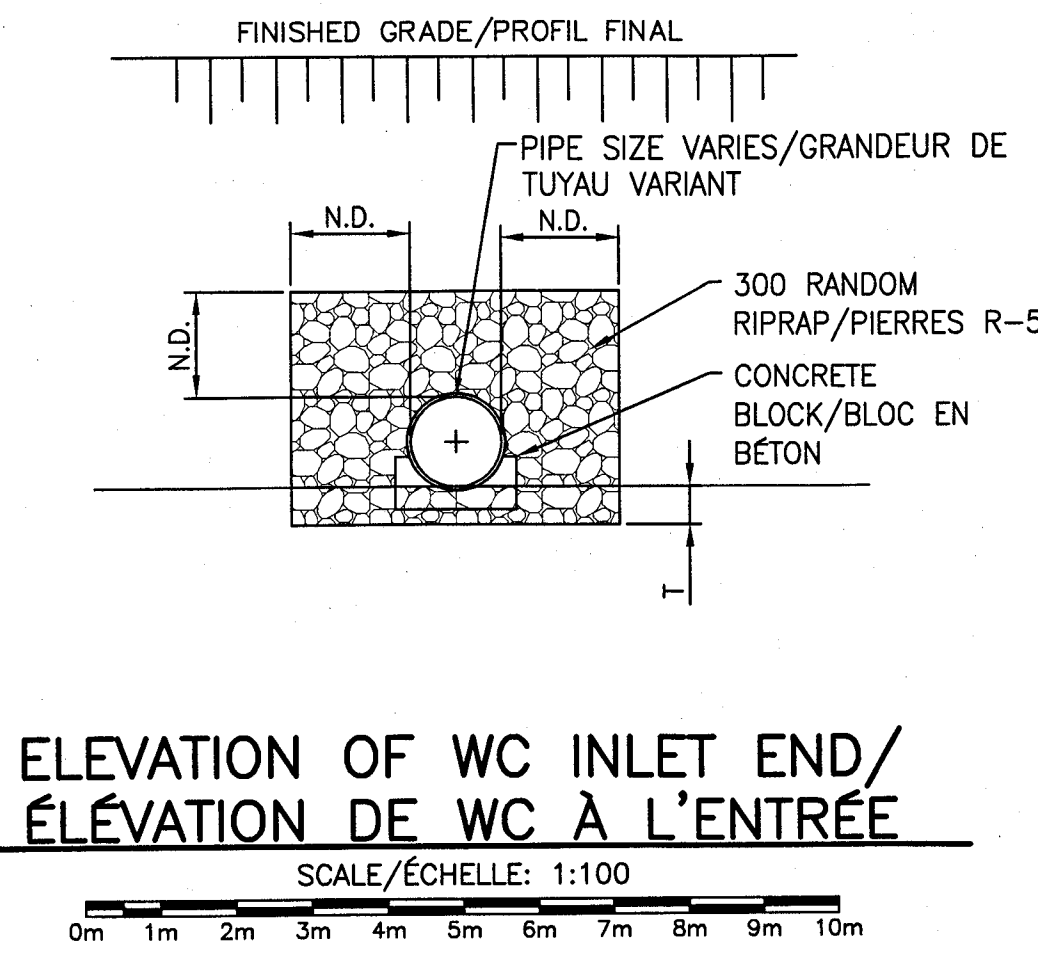
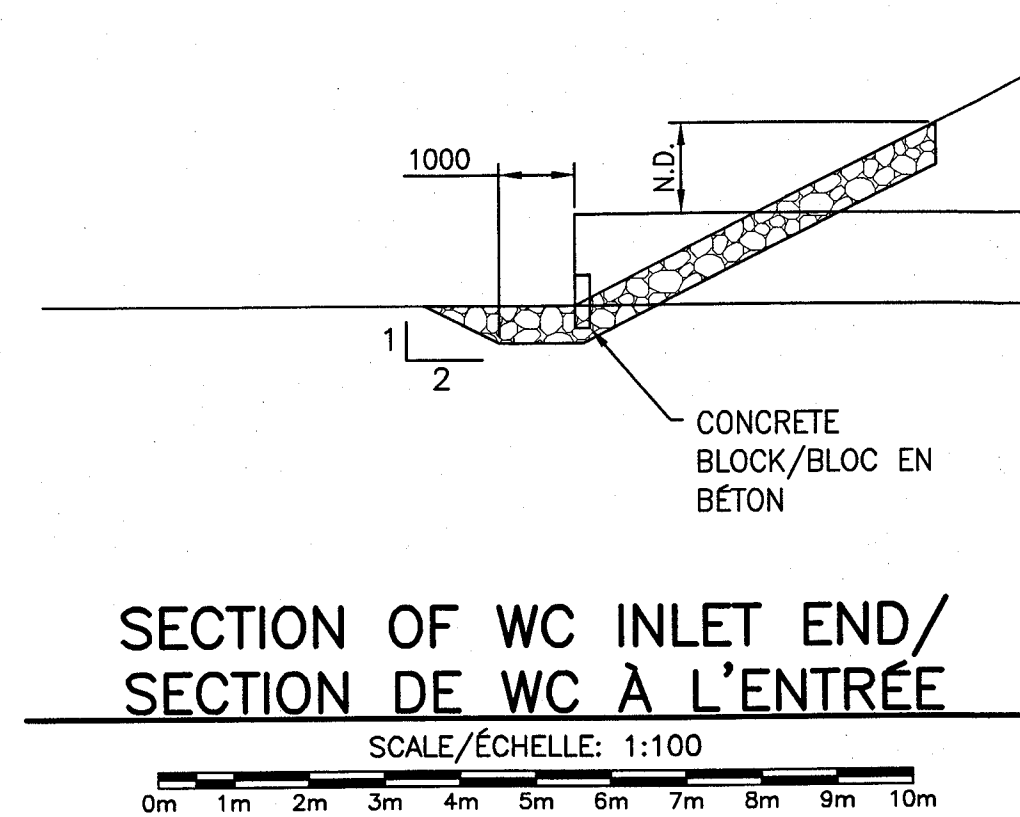


NOTES:
1. ALL CULVERTS TO INCLUDE STEP
BEVELS AS PER THE MANUFACTURERS
SPECIFICATIONS/TOUS LES PONCEAUX
DOIVENT INCLURE DES COUPES EN
BISSEAU TEL QUE RECOMMANDÉES PAR
LES SPÉCIFICATIONS DU FABRICANT.



PIPE & BAFFLE PARAMETERS/PARAMÈTRES DES TUYAUX ET DÉFLECTEUR			OUTLET POOL/BASSIN DE SORTIE		OUTLET POOL DEPTH (Z)/BASSIN DE SORTIE PROFONDEUR (Z)
NOM. DIA. (D)	BAFFLE HEIGHT/AUTEUR DE DÉFLECTEUR	DROP	WIDTH/LARGEUR (X)	LENGTH/LONGUEUR (Y)	
1500 CIRCULAR	500	150	3000	4500	1000
1500 CIRCULAR	350	100	3000	4500	1000
1500 CIRCULAR	—	150	3000	4500	1000
1200 CIRCULAR	350	100	2400	3600	1000
1050 CIRCULAR	350	100	2100	3150	1000
TWIN 1150 x 820 PIPE-ARCH	—	150	2250	3250	1000
TWIN 915 x 660 PIPE-ARCH	—	150	3745	2745	1000

RIPRAP/PIERRE	
RIPRAP TYPE/TYPE DE PIERRE	THICKNESS/ÉPAISSEUR (T)
R-5	300
R-25	500

CULVERT TABLE/TABLEAU DES PONCEAUX					INLET END TREATMENT/TRAITEMENT À L'ENTRÉE		OUTLET END TREATMENT/TRAITEMENT À LA SORTIE	
NAME/NOM	START STA./CHÂSSAGE INI.	DESCRIPTION	LENGTH/LONGUEUR	SLOPE/PENTE	RIPRAP SIZE/GRANDEUR DE PIERRE	LAYOUT TYPE/TYPE D'AGENCEMENT	RIPRAP SIZE/GRANDEUR DE PIERRE	LAYOUT TYPE/TYPE D'AGENCEMENT
AC01	9+956.66	NEW 600mm DIA. CIRCULAR CULVERT	12.000	1.84%	N/A	N/A	N/A	N/A
AC02	10+950.50	NEW 600mm DIA. CIRCULAR CULVERT	14.500	2.65%	N/A	N/A	N/A	N/A
AC03	10+998.90	NEW 600mm DIA. CIRCULAR CULVERT	21.257	-1.47%	N/A	N/A	N/A	N/A
AC04	11+369.73	NEW 600mm DIA. CIRCULAR CULVERT	26.528	3.00%	N/A	N/A	N/A	N/A
AC05	18+566.56	NEW 600mm DIA. CIRCULAR CULVERT	8.000	0.20%	N/A	N/A	N/A	N/A
DR01	4+505.69	NEW 600mm DIA. CIRCULAR CULVERT	22.095	0.68%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR02	0+676.22	NEW 600mm DIA. CIRCULAR CULVERT	20.152	0.00%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR03	0+818.54	NEW 600mm DIA. CIRCULAR CULVERT	20.699	0.97%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR04	1+477.86	NEW 750mm DIA. CIRCULAR CULVERT	24.524	0.00%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR05	1+867.64	NEW 750mm DIA. CIRCULAR CULVERT	21.224	0.00%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR06	2+263.34	NEW 600mm DIA. CIRCULAR CULVERT	19.688	0.76%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR07	2+527.37	NEW 600mm DIA. CIRCULAR CULVERT	18.184	2.14%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR08	2+671.79	NEW 600mm DIA. CIRCULAR CULVERT	19.217	0.00%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR09	3+008.35	NEW 600mm DIA. CIRCULAR CULVERT	20.431	0.00%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR10	3+156.38	NEW 600mm DIA. CIRCULAR CULVERT	19.715	1.78%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR11	4+243.74	NEW 750mm DIA. CIRCULAR CULVERT	28.134	0.43%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR12	4+627.56	NEW 600mm DIA. CIRCULAR CULVERT	25.140	1.59%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR13	5+573.23	NEW 600mm DIA. CIRCULAR CULVERT	29.954	0.43%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR14	5+821.94	NEW 600mm DIA. CIRCULAR CULVERT	30.120	-1.03%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR15	6+199.91	NEW 750mm DIA. CIRCULAR CULVERT	23.373	0.44%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR16	6+523.32	NEW 750mm DIA. CIRCULAR CULVERT	27.429	1.72%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR17	6+687.38	NEW 600mm DIA. CIRCULAR CULVERT	27.892	1.28%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR18	7+223.93	NEW 600mm DIA. CIRCULAR CULVERT	22.864	2.07%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR19	12+481.96	NEW 600mm DIA. CIRCULAR CULVERT	23.178	2.15%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR20	12+764.47	NEW 600mm DIA. CIRCULAR CULVERT	23.178	1.14%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR21	12+909.79	NEW 600mm DIA. CIRCULAR CULVERT	18.596	0.28%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR22	14+027.93	NEW 600mm DIA. CIRCULAR CULVERT	22.543	-3.28%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR23	14+796.09	NEW 750mm DIA. CIRCULAR CULVERT	23.553	1.60%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR24	15+173.22	NEW 750mm DIA. CIRCULAR CULVERT	19.962	1.45%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR25	15+374.32	NEW 600mm DIA. CIRCULAR CULVERT	22.409	1.12%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT
DR26	15+770.62	NEW 1050mm DIA. CIRCULAR CULVERT	22.796	1.32%	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
DR27	17+090.24	NEW 750mm DIA. CIRCULAR CULVERT	24.178	0.26%	R-5	APRON/REVÈTEMENT	R-5	APRON/REVÈTEMENT

CULVERT TABLE/TABLEAU DES PONCEAUX					WEIRS/DÉVERSOIR		INLET END TREATMENT/TRAITEMENT À L'ENTRÉE		OUTLET END TREATMENT/TRAITEMENT À LA SORTIE	
NAME/NOM	START STA./CHÂSSAGE INI.	DESCRIPTION	LENGTH/LONGUEUR	SLOPE/PENTE	NO.	MIN. SPACING/ESPACEMENT	RIPRAP SIZE/GRANDEUR DE PIERRE	LAYOUT TYPE/TYPE D'AGENCEMENT	RIPRAP SIZE/GRANDEUR DE PIERRE	LAYOUT TYPE/TYPE D'AGENCEMENT
WC01	3+253.65	NEW 1200mm DIA. CIRCULAR CULVERT	51.085	1.68%	8	5.92	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC02	5+032.13	NEW 1500mm DIA. CIRCULAR CULVERT	52.971	3.21%	17	3.12	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC03	5+157.89	NEW 1200mm DIA. CIRCULAR CULVERT	43.271	5.10%	22	1.95	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC04	7+624.29	NEW 1200mm DIA. CIRCULAR CULVERT	45.679	3.19%	15	3.13	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC05	8+325.24	NEW 1500mm DIA. CIRCULAR CULVERT	55.583	1.78%	10	5.62	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC06	10+099.73	NEW 1200mm DIA. CIRCULAR CULVERT	36.823	2.57%	9	3.89	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC07	11+197.98	NEW 1050mm DIA. CIRCULAR CULVERT	39.605	1.74%	7	5.78	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC08	11+526.38	NEW 1500mm DIA. CIRCULAR CULVERT	35.279	1.49%	5	6.62	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC09	11+699.62	NEW 1050mm DIA. CIRCULAR CULVERT	28.146	4.13%	12	2.46	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC10	11+925.59	NEW 1050mm DIA. CIRCULAR CULVERT	31.867	3.41%	11	2.93	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC11	12+121.60	NEW 1200mm DIA. CIRCULAR CULVERT	39.312	2.90%	11	3.43	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC12	14+288.06	NEW 900mm DIA. CIRCULAR CULVERT	24.817	0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC13	16+180.55	NEW 1050mm DIA. CIRCULAR CULVERT	25.241	1.96%	5	3.45	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC14a	16+358.89	NEW 800 x 580mm PIPE-ARCH CULVERT	21.846	1.42%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC14b	16+360.69	NEW 800 x 580mm PIPE-ARCH CULVERT	21.869	1.42%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC15	17+538.48	NEW 750mm DIA. CIRCULAR CULVERT	24.022	0.12%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC16a	17+760.41	NEW 915 x 660mm PIPE-ARCH CULVERT	23.448	0.64%	—	—	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC16b	17+762.34	NEW 915 x 660mm PIPE-ARCH CULVERT	23.322	0.64%	—	—	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC17	18+065.87	NEW 1050mm DIA. CIRCULAR CULVERT	23.462	2.77%	7	3.61	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC18	18+918.66	NEW 1500mm DIA. CIRCULAR CULVERT	28.703	0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC19	19+240.64	NEW 1050mm DIA. CIRCULAR CULVERT	25.155	2.32%	6	4.24	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC20	19+560.87	NEW 1050mm DIA. CIRCULAR CULVERT	25.116	-0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC21a	19+887.34	NEW 1150 x 820mm PIPE-ARCH CULVERT	25.781	-0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN
WC21b	19+889.55	NEW 1150 x 820mm PIPE-ARCH CULVERT	25.781	-0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC22	20+256.12	NEW 750mm DIA. CIRCULAR CULVERT	25.959	-0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC23	20+588.92	NEW 1050mm DIA. CIRCULAR CULVERT	28.504	0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC24a	20+801.95	NEW 1350mm DIA. CIRCULAR CULVERT	27.952	0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC24b	20+807.00	NEW 1350mm DIA. CIRCULAR CULVERT	27.918	0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC25	21+417.84	NEW 1200mm DIA. CIRCULAR CULVERT	27.928	0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC26	22+063.88	NEW 1050mm DIA. CIRCULAR CULVERT	26.822	0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC27	22+415.95	NEW 1050mm DIA. CIRCULAR CULVERT	28.803	0.00%	—	—	R-5	APRON/REVÈTEMENT	R-25	APRON/REVÈTEMENT
WC28	23+111.16	NEW 1500mm DIA. CIRCULAR CULVERT	30.587	3.88%	8	3.43	R-5	APRON/REVÈTEMENT	R-25	POOL/BASSIN

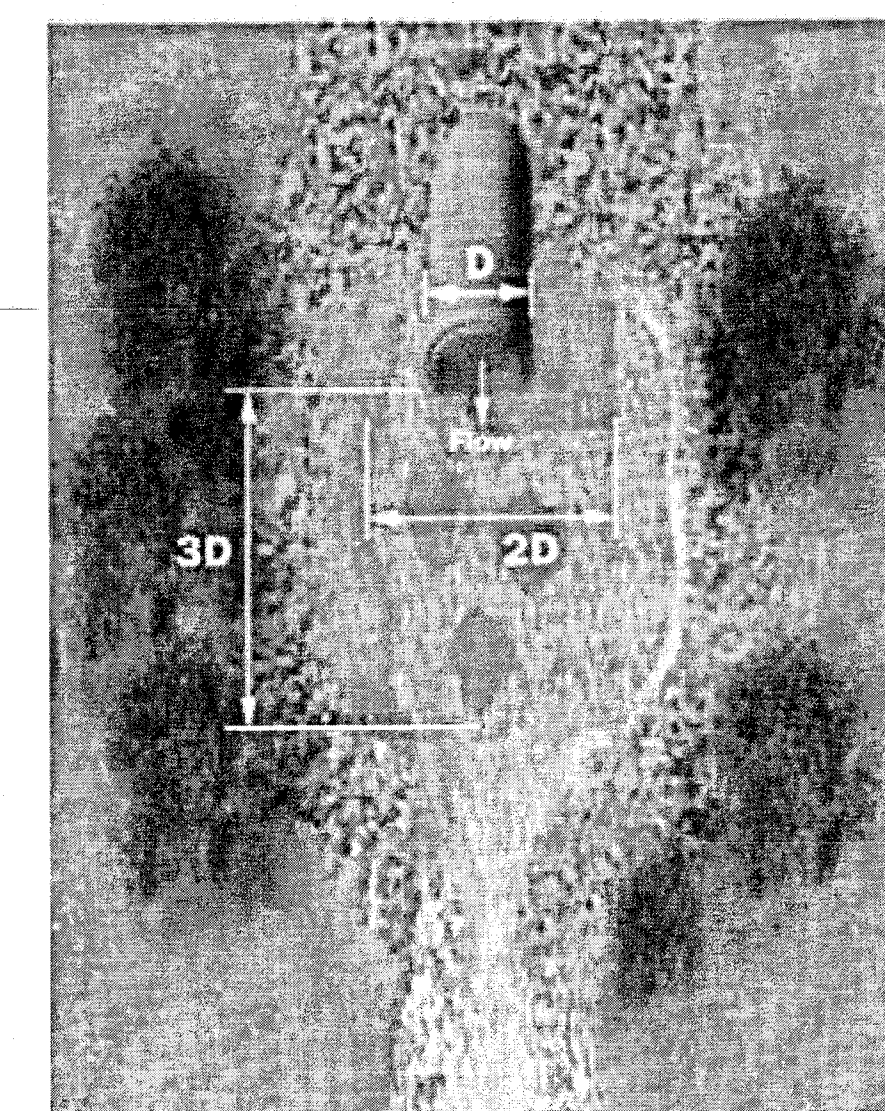
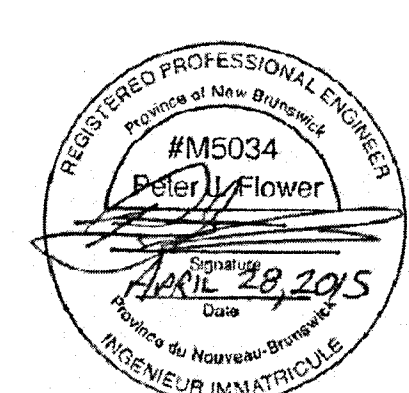


ILLUSTRATION OF OUTLET POOL/
ILLUSTRATION DU BASSIN DE SORTIE

SOURCE: GUIDELINES FOR THE DESIGN OF FISH
PASSAGE FOR CULVERTS IN NOVA SCOTIA,
FISHERIES AND OCEANS CANADA, FEBRUARY 2015



1	ISSUED FOR TENDER	04/28/2015
revisions		date
project	ROUTE 117 REHABILITATION REHABILITATION ROUTE 117 PARC NATIONAL KOUCHIBOUGUAC NATIONAL PARK COMTE DE KENT COUNTY, NB	project
drawing	TYPICAL CULVERT DETAILS - DÉTAILS TYPES DE PONCEAU	dessin
designed D.L.S./J.L.D.	conçu	
date	2015/04/14	
drawn J.L.D.	dessiné	
date	2015/04/14	
approved	approuvé	
date		
tender	Soumission	
PMSC Project Manager	Administrateur de projet	PMSC
project number	no. du projet	
	R.070695.001	
drawing no.	no. du dessin	
	C65 OF/DE C82	