

MANHOLE, CATCH BASIN, CATCH PIT & DITCH INLET - STRUCTURE AND LOCATION SCHEDULE - SHT 19

STRUCTURE NUMBER	DESCRIPTION	FRAME & COVER	STATION	OFFSET FROM CONTROL LINE	RIM ELEVATION	INVERT NORTH	INVERT WEST	INVERT SOUTH	INVERT EAST	BOTTOM ELEVATION	SPECIAL FEATURES	DETAILED SSP DATA @ EX 600 FM CROSSING LOCATIONS
MH-2	1500x1.830 DP MH BASE(SD-010)	AP-004, AP-005	2+286.950	6.000 R/NM	35.579		9000 29.949		9000 29.949	29.949		
MH-3	1500x1.830 DP MH BASE(SD-010)	AP-004, AP-005	2+316.950	23.500 R/NM	35.770		9000 29.446		9000 29.446	29.446		
MH-4	1200x1800 LONG (SD-011)	AP-004, AP-005	2+422.800	23.500 R/NM	35.438	3750 29.549	9000 29.287		9000 29.287	29.351		
DI-7	<del>9000x1.200DP SD-025</del>	<del>DITCH INLET GRATE</del>	<del>2+405.000</del>	<del>2.500 R/NM</del>	<del>35.830</del>			<del>2500 33.900</del>		<del>33.900</del>	<del>C/W 9000:7600x0.300 FLAT TOP REDUCER - SSP CROSSES 600 FM - 600 FM INV 31.260</del>	<del>21.0 OF 250 SSP @ 55.92% S OF EX 600 FM &amp; 9.69% N OF EX 600 FM</del>
CP-12	<del>9000x0.400DP SD-023</del>	<del>AP-008, AP-009</del>	<del>2+415.000</del>	<del>16.500 R/NM</del>	<del>34.831</del>				<del>2500 34.601</del>	<del>34.601</del>		
CB-14	9000x1.800DP SD-024	AP-008, AP-009	2+420.000	16.500 R/NM	34.906		2500 34.006 1500 33.469	3000 33.286		32.666	SSP CROSSES 600 FM - 600 FM INV 31.177 300 SSP INV @ 600 FM 32.352	7.4 OF 300 SSP @ 49.30% S OF EX 600 FM & 38.08% N OF EX 600 FM
DI-8	<del>9000x1.800DP SD-025</del>	<del>DITCH INLET GRATE</del>	<del>2+422.347</del>	<del>16.400 L/NM</del>	<del>33.760 TOP/GRATE</del>			<del>3750 32.650</del>	<del>3750 32.650</del>	<del>31.450</del>	<del>C/W 9000:7600x0.300 FLAT TOP REDUCER - SSP CROSSES 600 FM - 600 FM INV 31.167</del>	<del>42.0 OF 375 SSP @ 3.54% S OF EX 600 FM &amp; 6.26% N OF EX 600 FM</del>
DI-8	<del>9000x1.200DP SD-025</del>	<del>DITCH INLET GRATE</del>	<del>2+439.392</del>	<del>16.485 L/NM</del>	<del>33.700 TOP/GRATE</del>		<del>3750 32.650</del>	<del>3000 32.725</del>		<del>32.050</del>	<del>C/W 9000:7600x0.300 FLAT TOP REDUCER</del>	
CB-15	<del>9000x1.800DP SD-024</del>	<del>AP-008, AP-009</del>	<del>2+430.359</del>	<del>11.000 L/NM</del>	<del>34.754</del>	<del>5000 33.114</del>	<del>1500 33.917</del>		<del>2500 33.844</del> <del>1500 33.317</del>	<del>32.514</del>		
CP-13	<del>9000x0.400DP SD-023</del>	<del>AP-008, AP-009</del>	<del>2+440.000</del>	<del>9.300 L/NM</del>	<del>34.739</del>		<del>2500 33.609</del>			<del>33.609</del>		
MH-5	1200x1800 LONG (SD-011)	AP-004, AP-005	2+439.512	23.500 R/NM	34.754		9000 29.282	4500 30.127	9000 29.282	29.282		
CB-16	9000x1.800DP SD-024	AP-008, AP-009	2+473.657	22.635 R/NM	34.392			2500 32.752		32.152		
DI-10	<del>9000x1.200DP SD-025</del>	<del>DITCH INLET GRATE</del>	<del>2+473.000</del>	<del>16.000 L/NM</del>	<del>34.400 TOP/GRATE</del>			<del>3000 33.950</del>		<del>32.750</del>	<del>C/W 9000:7600x0.300 FLAT TOP REDUCER - SSP CROSSES 600 FM - 600 FM INV 31.241</del>	<del>39.8 OF 300 SSP @ 57.00% S OF EX 600 FM &amp; 3.87% N OF EX 600 FM</del>
CB-17	9000x1.800DP SD-024	AP-008, AP-009	2+497.388	8.000 L/NM	34.416		1500 32.981	3000 32.776	2500 33.545 1500 32.981	32.176	SSP CROSSES 600 FM - 600 FM INV 31.249 300 SSP INV @ 600 FM 32.424	31.5 OF 300 SSP @ 53.62% S OF EX 600 FM & 1.36% N OF EX 600 FM
DI-11	<del>9000x1.200DP SD-025</del>	<del>DITCH INLET GRATE</del>	<del>2+500.000</del>	<del>8.000 R/NM</del>	<del>34.424 TOP/GRATE</del>			<del>2500 33.974</del>		<del>32.774</del>	<del>C/W 9000:7600x0.300 FLAT TOP REDUCER - SSP CROSSES 600 FM - 600 FM INV 31.248</del>	<del>17.1 OF 250 SSP @ 63.63% S OF EX 600 FM &amp; 7.61% N OF EX 600 FM</del>
CP-14	<del>9000x0.400DP SD-023</del>	<del>AP-008, AP-009</del>	<del>2+499.000</del>	<del>8.000 L/NM</del>	<del>34.420</del>		<del>2500 33.570</del>			<del>33.520</del>		
CP-15	<del>9000x0.400DP SD-023</del>	<del>AP-008, AP-009</del>	<del>2+505.500</del>	<del>20.000 R/NM</del>	<del>34.409</del>				<del>2500 33.550</del>	<del>33.500</del>		
CB-18	9000x1.800DP SD-024	AP-008, AP-009	2+507.500	20.000 R/NM	34.399		2500 33.526 1500 32.962	3000 32.759	1500 32.962	32.159		
DI-12	<del>9000x1.200DP SD-025</del>	<del>DITCH INLET GRATE</del>	<del>2+520.000</del>	<del>16.000 L/NM</del>	<del>33.630 TOP/GRATE</del>		<del>3000 32.010</del>	<del>3000 32.500</del>		<del>31.900</del>	<del>C/W 9000:7600x0.300 FLAT TOP REDUCER - SSP CROSSES 600 FM - 600 FM INV 31.245</del>	<del>41.5 OF 300 SSP @ 4.90% S OF EX 600 FM &amp; 8.27% N OF EX 600 FM</del>

MANHOLE, CATCH BASIN, CATCH PIT & DITCH INLET - STRUCTURE AND LOCATION SCHEDULE - SHT 20

STRUCTURE NUMBER	DESCRIPTION	FRAME & COVER	STATION	OFFSET FROM CONTROL LINE	RIM ELEVATION	INVERT NORTH	INVERT WEST	INVERT SOUTH	INVERT EAST	BOTTOM ELEVATION	SPECIAL FEATURES	DETAILED SSP DATA @ EX 600 FM CROSSING LOCATIONS
MH-6	1200x1800 LONG (SD-011)	AP-004, AP-005	2+548.500	23.500 R/NM	34.960		9000 29.099		9000 29.099	29.099		
MH-7	1200x1800 LONG (SD-011)	AP-004, AP-005	2+657.000	23.500 R/NM	34.973		9000 28.936		9000 28.936	28.936		
CP-16	<del>9000x0.400DP SD-023</del>	<del>AP-008, AP-009</del>	<del>2+703.000</del>	<del>16.500 R/NM</del>	<del>34.200</del>				<del>2500 33.410</del>	<del>33.360</del>		
CB-19	9000x1.800DP SD-024	AP-008, AP-009	2+705.000	16.500 R/NM	34.256		2500 33.383 1500 32.819	3000 32.616	1500 32.819	32.166	SSP CROSSES 600 FM - 600 FM INV 31.201 300 SSP INV @ 600 FM 32.376	7.3 OF 300 SSP @ 66.92% S OF EX 600 FM & 9.60% N OF EX 600 FM
CP-17	<del>9000x0.400DP SD-023</del>	<del>AP-008, AP-009</del>	<del>2+703.000</del>	<del>8.000 L/NM</del>	<del>34.200</del>				<del>2500 33.410</del>	<del>33.360</del>		
CB-20	<del>9000x1.800DP SD-024</del>	<del>AP-008, AP-009</del>	<del>2+705.000</del>	<del>8.000 L/NM</del>	<del>34.256</del>		<del>2500 33.383</del> <del>1500 32.819</del>	<del>3000 32.616</del>	<del>1500 32.819</del>	<del>32.916</del>	<del>SSP CROSSES 600 FM - 600 FM INV 31.200</del> <del>300 SSP INV @ 600 FM 32.375</del>	<del>31.3 OF 300 SSP @ 60.64% S OF EX 600 FM &amp; 0.93% N OF EX 600 FM</del>
DI-13	<del>9000x1.200DP SD-025</del>	<del>DITCH INLET GRATE</del>	<del>2+700.000</del>	<del>4.250 R/NM</del>	<del>34.050 TOP/GRATE</del>			<del>2500 33.600</del>		<del>32.400</del>	<del>C/W 9000:7600x0.300 FLAT TOP REDUCER - SSP CROSSES 600 FM - 600 FM INV 31.202</del>	<del>18.8 OF 250 SSP @ 73.95% S OF EX 600 FM &amp; 4.34% N OF EX 600 FM</del>
MH-8	2100x1.830 DP MH BASE(SD-010)	AP-004, AP-005	2+767.503	23.500 R/NM	34.529	EX 9000 28.771	9000 28.771	EX 9000 28.771	2500 29.421	28.771		
DI-14	<del>9000x1.200DP SD-025</del>	<del>DITCH INLET GRATE</del>	<del>2+775.000</del>	<del>19.430 L/NM</del>	<del>33.975 TOP/GRATE</del>				<del>2500 32.925</del>	<del>31.725</del>	<del>C/W 9000:7600x0.300 FLAT TOP REDUCER - SSP CROSSES 600 FM - 600 FM INV 31.171</del>	<del>250 SSP INV @ 600 FM 29.753</del>

NOTE:  
1. IF STRUCTURE DATA IS CROSSED OUT, THE STRUCTURE IS NOT IN THIS CONTRACT BUT WILL BE INSTALLED IN A FUTURE CONTRACT.

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES DATE COMMITTEE

NOTE:  
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	ISSUED FOR CONSTRUCTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	09/07/15	WJD
	REVISIONS	YY/MM/DD	BY

**AECOM**

DESIGNED BY: DME  
DRAWN BY: WJD  
HOR. SCALE: 1:50  
VERT. SCALE: 1:50  
DATE: 09/07/15

CHECKED BY: [Signature]  
APPROVED BY: [Signature]  
RELEASED FOR CONSTRUCTION: [Signature]  
DATE: July 15, 2009

PROFESSIONAL'S SEAL  
PROVINCE OF MANITOBA  
REGISTERED PROFESSIONAL ENGINEER  
A. NAGY  
July 15, 2009  
CONSULTANT DRAWING NO.  
0285-411-00\_01-C-9002\_RX.dwg

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

INKSTER BOULEVARD  
WIDENING PROJECT  
BROOKSIDE BOULEVARD  
TO KEEWATIN STREET  
LAND DRAINAGE SYSTEM  
STRUCTURE & LOCATION SCHEDULES 2

CITY DRAWING NUMBER  
P-3301-29  
SHEET 29 OF 31  
DRAWING No. 29 REV 0

0285-411-00\_01-C-9002\_RX.dwg

**APEGM**  
Certificate of Authorization  
AECOM Canada Ltd.  
No. 4671 Date: July 15, 2009  
BID OPPORTUNITY NO. 368-2009