DIVISION III

Community Services Dept., City of Mississauga Subdivision Requirements Manual Specifications

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PART I - GENERAL

1.1 Related Work	.1	Pre-cast Concrete		:	Section 03400
1.2 Scope of Work	.1	This section specifies materials for the cor specified herein.			
	.2	Coordinate work in t	his section with	work in al	l other sections.
1.3 Reference Standards	.1	Do cast-in-place of specifications and wi			nce with these
<u>1.4 Product Delivery,</u> <u>Storage, Handling</u>	.1	To conform to the O	PSS.		
<u>1.5 Guarantee</u>	.1	The contractor shall g a period of two years the City.			-
PART II - PRODUCTS					
2.1 Concrete	.1	All material to be used for cast-in-place concrete curbs to be OPSD 600.03 Type J: 0.084 and to conform to the OPSS and will be tested for compliance with the following:			
		Class of Concrete Coarse Aggregate Air Content	30 Mpa at 28 c 19 mm nomina 7.0% +/- 1. placement	al max. siz	e sured prior to
		Maximum Slump	60 mm		
	.2	All material to be used for concrete footings to confo OPSS and will be tested for compliance with the follo			
		Class of Concrete Coarse Aggregate Air Content		al max. siz	e sured prior to
		Maximum Slump	placement 70 +/- 20 mm		

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2.2 Granular Base for CIP Curbs	.1	Sound, hard, durable Granular 'A' and Granular 'B', free from clay or organic matter and in accordance with Detail #02510-3.		
2.3 Sono Tubes	.1	Sono tubes shall be sized in accordance with the approved drawings and details with a wall thickness of 5 mm minimum. Sono tubes shall be protected from rain and moisture on site until used.		
2.4 Expansion Joints	.1	Expansion joints to be 12 mm thick Bituminus fibre installed as per approved working drawings.		
PART III - EXECUTION				
3.1 Installation	.1	The contractor will be required to excavate, fill, compact, or undertake other measures as required to ensure that the soil materials located within a 300 mm depth below the subbase are placed and compacted to 98% of SPD.		
	.2	The contractor will be required to install the granular materials to the depths indicated on the drawings. The granular material will be placed and compacted to 98% SPD.		
	.3	Obtain the Community Services Department's approval before placing concrete. Provide 24 hour notice prior to placing of concrete.		
	.4	All work shall be carried out as per OPSS and OPSD, latest edition(s) and the approved drawings.		
	.5	Ensure reinforcement and inserts are not disturbed during concrete placement.		
	.6	Obtain Community Services representative's approval of proposed method for protection of concrete during placing and curing in adverse weather, prior to placing of concrete.		
	.7	Maintain accurate records of cast-in-place concrete items to indicate date, location of pour, air temperature and test samples taken.		
	.8	All formed concrete to be formed with clean wood.		

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	.9	While concrete is being placed, it shall be thoroughly and continuously worked so as to flow completely throughout the entire excavation area so as to leave the mass solid and without holes or honey combing. Suitable tools shall be used for this work.
	.10	Placing shall be continuous until section is completed.
	.11	Air temperatures shall be 5°C and rising, and all necessary precautions shall be taken during cold weather to the satisfaction of the Community Services representative.
	.12	No concrete shall be placed on frozen ground.
	.13	All edges, control joints and finishes shall be in accordance with the OPSD and approved working drawings.
3.2 Concrete Finishing	.1	The form of the curb may be stripped after initial set of the concrete has been achieved to facilitate finishing on exposed vertical and horizontal surfaces.
	.2	On exposed formed surfaces, neatly chip off fins, unsightly ridges, or other imperfections, fill small surface voids with grout and rub flush with the general surfaces.
	.3	Slope surfaces as indicated.
	.4	All walkway surfaces shall have a broom finish.
3.3 Curing	.1	Concrete surfaces shall be cured for either 3 days at a minimum temperature of 10°C, or for the time necessary to attain 35% of the specified 28 day compressive strength of the concrete.
	.2	Concrete shall be cured by the installation of a curing compound or polyethylene vapour barrier ensuring complete coverage of the concrete.
<u>3.4 Defective Concrete</u>	.1	Any portion of the work not acceptable to the Community Services representative shall be broken out from expansion joint to expansion joint encompassing the work, and replaced to the specifications, at no cost to the City.
3.5 Inspection and	.1	Inspection and testing of concrete and concrete materials shall

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	<u>Testing</u>		be carried out by an independent inspection and testing laboratory. Tests shall be obtained by the contractor, at the contractor's expense, and submitted to the Community Services representative.		
<u>3.6</u>	<u>Clean up</u> .1	l	Promptly as the work proceeds and upon completion, clean up and remove from the site rubbish and surplus material resulting from the work in this section.		
END OF SECTION 03300					