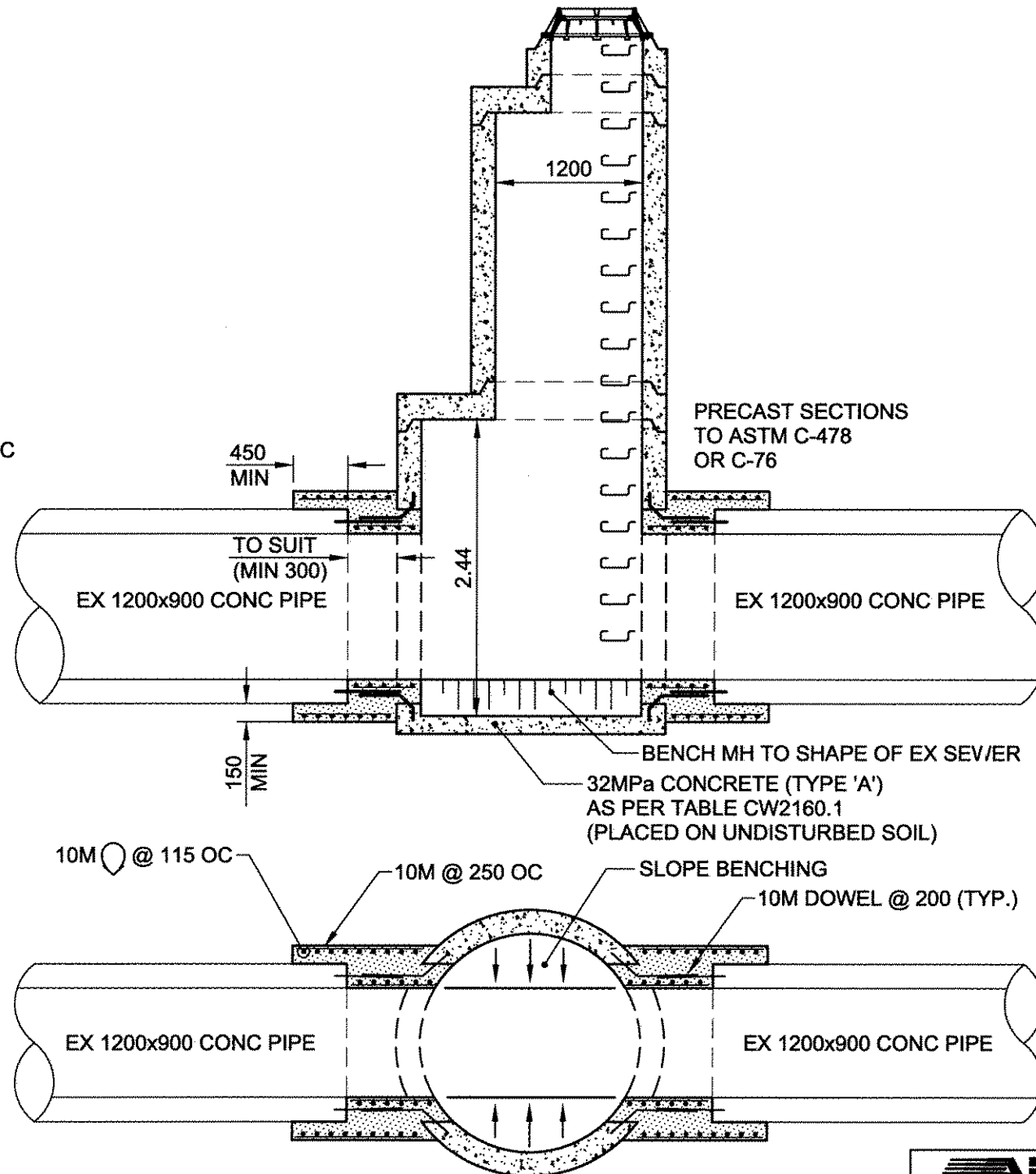


SECTION A
SCALE: N.T.S.



SEWER CONNECTION DETAIL

SCALE: N.T.S.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

SEWER SIZE	MH BASE Ø
1200 x 700	1500mmØ
1200 x 900	1800mmØ
1550 x 1200	2100mmØ

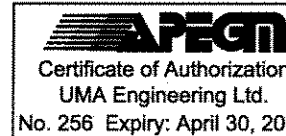
LAP TABLE	
BAR	LAP
10M	330
15M	550
20M	670

NOTES:

1. DRILL HOLE OF DIAMETER AND DEPTH AS REQUIRED.
2. CLEAN HOLE OF DUST & DEBRIS.
3. FILL HOLE WITH DOWELLING GROUT.
4. INSTALL REINFORCING BAR & V/PIPE AWAY GROUT.
5. SECURE DOWEL BAR FIRMLY IN POSITION & DO NOT DISTURB BAR FOR 3 HOURS AFTER INSTALLATION.

HYDRAULIC CEMENT GROUT	EPOXY GROUT
d = BAR DIA. + 20mm	d AND Le IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS
Le : 10M - 150mm	
15M - 200mm	
20M - 250mm	
25M - 300mm	

d = REINFORCING BAR DIAMETER
Le = LENGTH OF REINFORCING BAR



BID OPPORTUNITY NO. 265-2004

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.	REVISIONS	YY/MM/DD	BY

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DESIGNED BY CCM/FMI	CHECKED BY <i>[Signature]</i>
DRAWN BY ADL/WJd	APPROVED BY <i>[Signature]</i>
HOR. SCALE N.T.S.	RELEASED FOR CONSTRUCTION
VERT. SCALE	DATE 09/06/24

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
A. NAGY
June 24, 2004
CONSULTANT DRAWING NO. 01
D265-107-03

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2004 COMBINED SEWER RENEWALS
CONTRACT 34
SEWER LINING
MANHOLE INSTALLATIONS

MH I.D.'s 7350, 16756, 16767, & 19260

SHEET 1 OF 1	REV 0
CITY DRAWING NUMBER SK-01	