The City of Winnipeg Tender No. 1-2025 Appendix 'E' Template Version: 2025 01 01- Const Road Works APPENDIX 'D' - MANITOBA HYDRO ALLOWABLE EXCAVATION AROUND **EXISTING POLES AND ANCHORS: DRAWING CD 30-55**

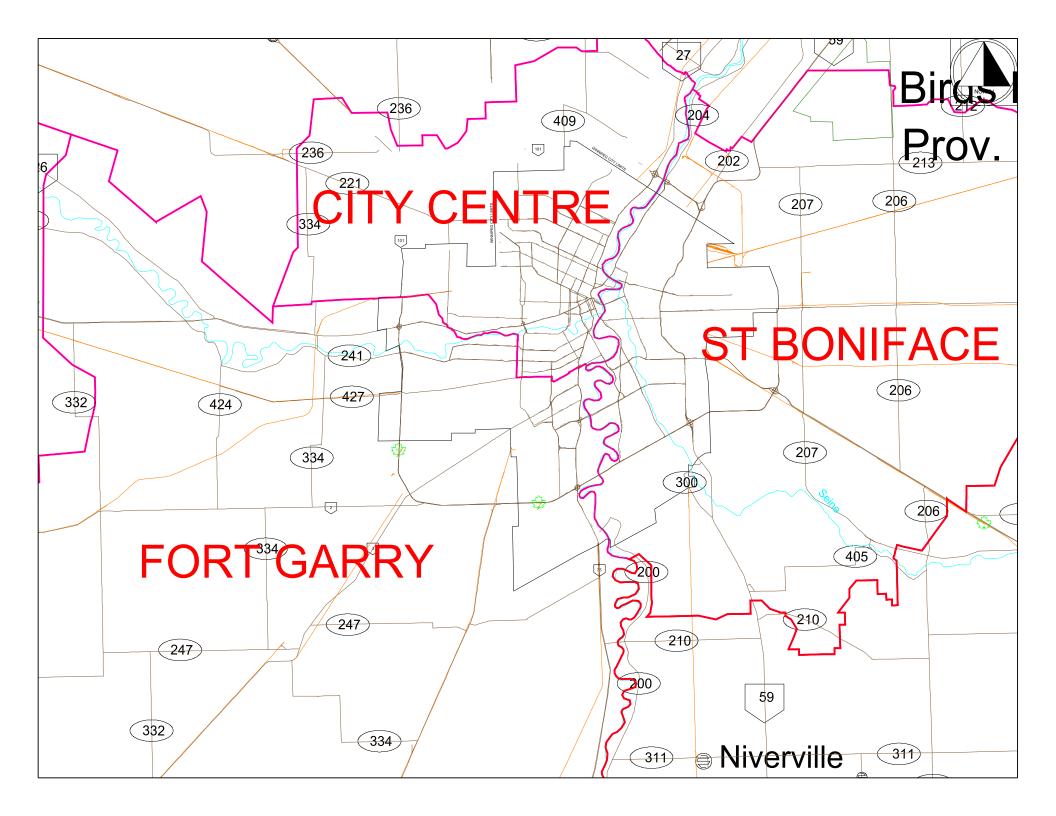


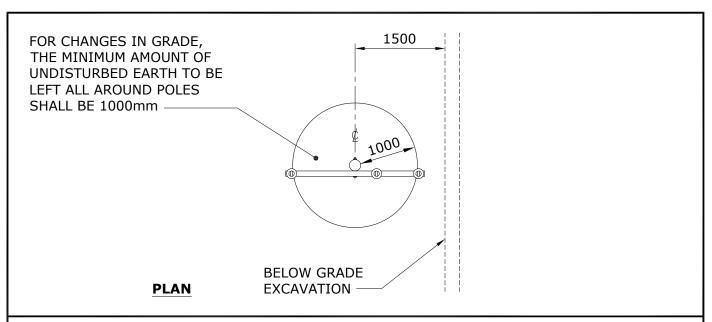
Table 1
Minimum depth of burial of cables and duct and chamber systems
(See Clauses 5.1.2, 5.1.3 and 5.2.)

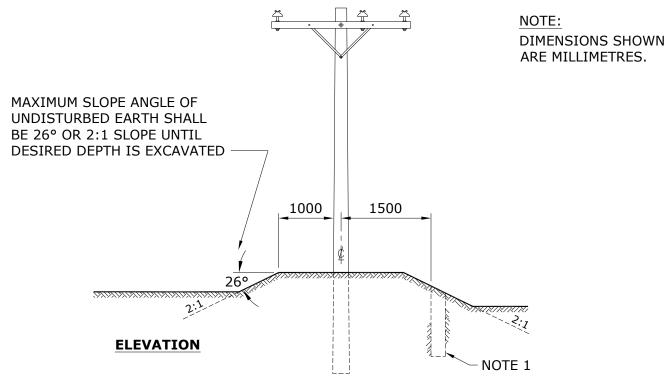
	Depth of burial, mm				
Type of system	Surface of the earth	Bottom of ditches	Under parkways or lawns	Under roadways	
Communication cables	600*	750*	450*	600*	
Communication drops	450*	600*	450*	450*	
Supply cables >750 V	750*‡	1000*‡	750*‡	1000*‡	
Supply cables ≤750 V	600*‡	750*‡	600*‡	1000*‡	
Duct and subsurface chamber system	450†	600†	450†	600†	

^{*} See Clause 5.1.4 for reduced depth of burial at cable crossings and Clause 5.1.5 where these values are not practical.

[†] See Clause 5.2.2 where these depths cannot be achieved.

[‡] This depth of burial may be reduced where the underground supply cable transitions to an above-ground structure (e.g., a pole) within a distance as short as possible from the structure without exceeding 1.5 m.



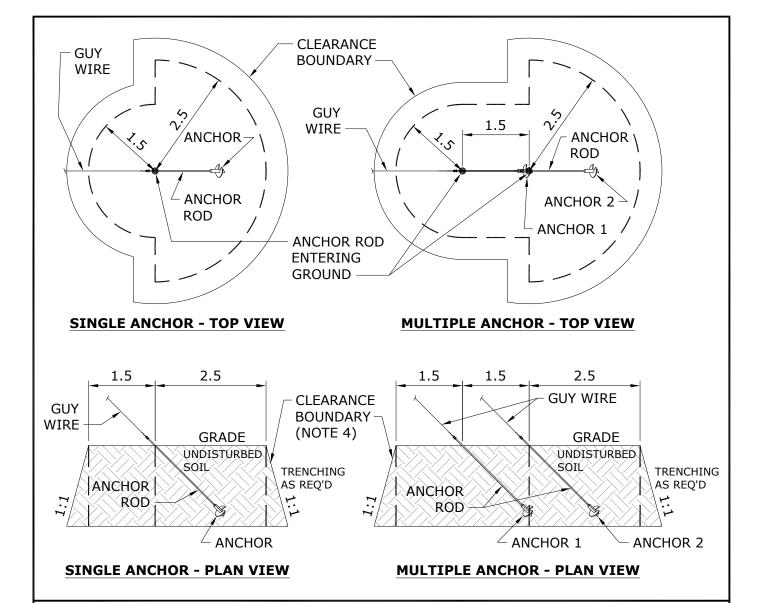


NOTE:

1. THE MINIMUM SEPARATION (TO ANY SIDE OF A POLE) FOR EXCAVATIONS DEEPER THAN 500mm WITHOUT DISTRIBUTION ENGINEERING INVOLVEMENT SHALL BE 1500mm, EXCAVATIONS TO BE BACKFILLED & TAMPED TO MAINTAIN SLOPE. A CIVIL ENGINEER SHOULD BE CONSULTED FOR ANY LARGER (TEMPORARY OR PERMANENT) EXCAVATIONS.

SUPERCEDES ORIGINAL SEALED BY E. WIEBE ON 94-07-11

APPROVED		REVISIONS		ISIONS	MANITOBA HYDRO DISTRIBUTION STANDARDS		
ORIGINAL DRAWING	23- 01	4		ADDED SHEET 2 - EXCAVATION LIMITS AROUND ANCHORS ALLOWABLE EXCAVATIONS			
SEALED BY D.R. ORR	19- 04	3	REVIS RESE	SED NOTE 1, ALED	AROUND EXISTING PO	DLES	
19-05-17	06- 02	2	REVISED SLOPE & 2 ADDED MORE EXPLANATION TO NOTES		AND ANCHORS		
DRAWN CHECKED			DATE	CD 20 EE	SHT	REV	
C.A.	G.D./C.W.		.W.	19-04	CD 30-55	0001 of 2	04



NOTES:

- 1. EXCAVATION ZONE LIMITS ARE ONLY APPLICABLE FOR NORMAL OR BETTER SOIL CONDITIONS. FOR POOR OR SWAMP SOIL CONDITIONS, CONTACT DISTRIBUTION ENGINEERING BEFORE BEGINNING ANY WORK.
- 2. IF THERE ARE MULTIPLE ANCHORS IN-LINE, ADD ANOTHER 1.5m FOR EACH ADDITIONAL ANCHOR TO THE 1.5m MINIMUM DIMENSION.
- 3. THIS DRAWING SHOWS A PISA ANCHOR, IT IS APPLICABLE FOR ALL ANCHOR TYPES.
- 4. EXCAVATION TO BE DONE AT MAXIMUM ANGLE OF 45° SLOPE AWAY FROM THE CLEARANCE BOUNDARY. THE HORIZONTAL AND VERTICAL CUTS SHALL NOT BE STEEPER THAN 1:1 RATIO TO PREVENT CAVE-IN.
- 5. IF AT ANY TIME IN THE COURSE OF EXCAVATION THE POLE OR ITS SUPPORTING EQUIPMENT APPEARS TO BECOME UNSTABLE TO ANY DEGREE, WORK SHALL BE HALTED IMMEDIATELY AND DISTRIBUTION ENGINEERING SHALL BE CONTACTED BEFORE PROCEEDING WITH ANY ADDITIONAL EXCAVATION.
- 6. IF THE SPECIFIED CLEARANCES CANNOT BE MET, CONTACT DISTRIBUTION ENGINEERING BEFORE BEGINNING ANY WORK.
- 7. DIMENSIONS SHOWN ARE IN METERS.

APPROVED	REV	ISIONS	MANITOBA HYDRO DISTRIBUTION STAI	NDARDS	
ORIGINAL DRAWING SEALED BY C. WEERAKOON 23-01-30			ALLOWABLE EXCAVATION AROUND EXISTING PO		
DRAWN	CHECKED	DATE	CD 20 FF	SHT	REV
C.A.	G.D.	23-01	CD 30-55	0002 of 2	00