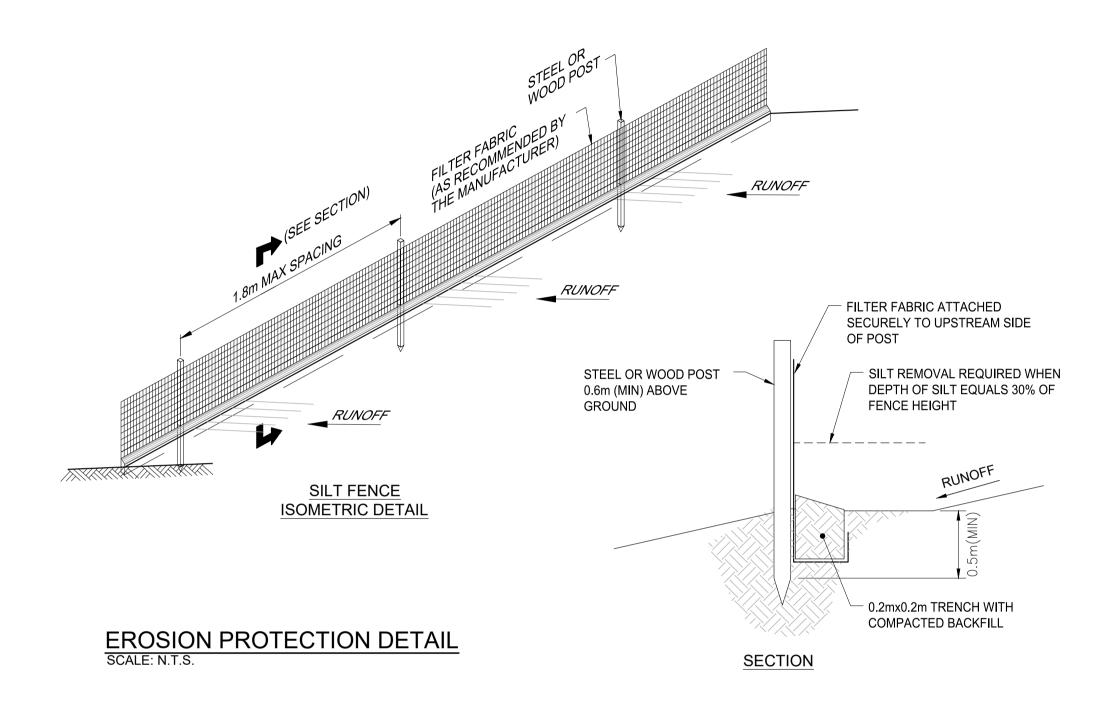
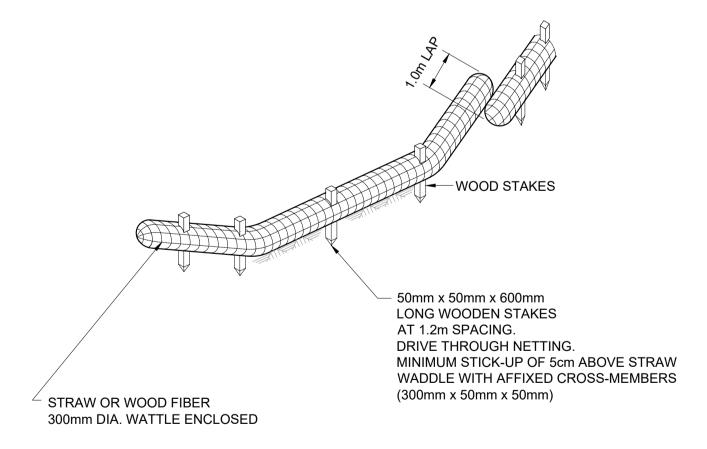
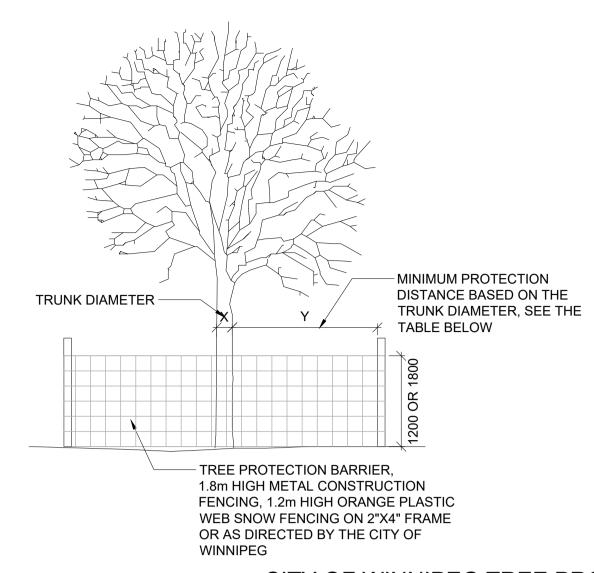
TYPICAL TENSION CRACK SEALING DETAIL





TYPICAL STRAW WATTLE SCALE: N.T.S.



TREE PROTE	TREE PROTECTION ZONES						
X= TRUNK DIAMETER	Y= MINIMUM PROTECTION						
X- TRONK DIAMETER	DISTANCE REQUIRED						
<10CM	2.0m						
11-40CM	2.4m						
41-50CM	3.0m 3.6m						
51-60CM							
61-70CM	4.2m						
71-80CM	4.8m						
81-90CM	5.4m						
91-100CM+	6.0m						

TRUNK DIAMETER ARE MEASURED AT BREAST HEIGHT AT 1.4 METRES ABOVE GROUND

TREE PROTECTION ZONE DISTANCES ARE TO BE MEASURED FROM THE OUTSIDE EDGE OF THE TREE BASE TOWARDS THE DRIP LINE.

STRAP MATURE TREE TRUNKS WITH 25 X150 X 2400 WOOD PLANKS. SMALLER TREES SHALL BE SIMILARLY PROTECTED USING APPROPRIATE SIZED WOOD PLANKS.

DO NOT STOCKPILE MATERIALS AND SOIL OR PARK VEHICLES AND EQUIPMENT ON BOULEVARDS WITHIN 2.0 METRES OF TREES. EXCAVATIONS SHALL BE CARRIED OUT IN A MANNER TO MINIMIZE DAMAGE TO EXISTING ROOT SYSTEM. WHERE ROOTS MUST BE CUT TO FACILITATE AN EXCAVATION THEY SHALL BE NEATLY PRUNE AT THE FACE OF THE EXCAVATION.

WORK ON SITE SHALL BE CARRIED OUT IN A MANNER TO MINIMIZE DAMAGE TO EXISTING TREE BRANCHES. WHERE DAMAGE TO TREE BRANCHES DOES OCCUR, THE CONTRACTOR SHALL NEATLY PRUNE THE DAMAGED BRANCH.

CITY OF WINNIPEG TREE PROTECTION STANDARDS SCALE: 1:50



TYPICAL STEEL FENCING PROTECTION



SAFETY FENCE DETAIL

ISSUED FOR TENDER

ENGINEERS GEOSCIENTISTS MANITOBA Certificate of Authorization KGS Group No. 245

WARNING

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

PROPERTY LIMITS DELINEATION

REPRESENTATION OR WARRANTY AS TO THE

DIMENSIONAL ACCURACY OF DWG FEATURES

DELINEATED ON THIS DWG, NOR ON THE

RELATIVE TO THOSE PROPERTY LIMITS.

DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO

ACCURACY OF PROPERTY LIMITS

. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION. TAKE PRECAUTION TO AVOID DAMAGE TO GAS

COMPANY INSTALLATIONS.

. SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

NOTES:

1. LOCATION AND EXTENT OF EROSION PROTECTION

THE CONTRACT ADMINISTRATOR.

OR AROUND ROLL.

2. STRAW WATTLE INSTALLATION REQUIRED

A TRENCH, 3"-5" (75-125MM) DEEP, DUG ON

3. OPERATION OF EQUIPMENT WITHIN THE DRIPLINE

OF THE TREES SHALL BE KEPT TO THE MINIMUM

REQUIRED TO PERFORM THE WORK REQUIRED.

EQUIPMENT SHALL NOT BE PARKED, REPAIRED,

REFUELLED; CONSTRUCTION MATERIALS SHALL

NOT BE STORED, AND EARTH MATERIALS SHALL

NOT BE STOCKPILED WITHIN THE DRIPLINES OF

MANNER THAT MINIMIZES DAMAGE TO THE

BY CONSTRUCTION EQUIPMENT."

TREES.EXCAVATION SHALL BE PERFORMED IN A

EXISTING ROOT SYSTEMS. WHERE ROOTS MUST

BE CUT TO FACILITATE EXCAVATION, THEY SHALL

BE PRUNED NEATLY AT THE FACE OF EXCAVATION. THEY MUST BE POPERLY TRIMMED WITH SHARP

TOOLS TO PREVENT CRUSHING OR BEING PULLED

MEASURES TO BE DETERMINED IN THE FIELD BY

PLACEMENT AND SECURE STAKING OF THE ROLL IN

CONTOUR. RUNOFF NOT ALLOWED TO RUN UNDER

ST. MARY'S ROAD RIVERBANK

STABILITY IMPROVEMENT WORKS

COMPUTER FILE NAME 22-0107-010_G05

SHEET OF

I	300 LDS	LAND DRAINAGE SEWER	300 LDS	- × × -	FENCE					
	250 WWS	WASTE WATER SEWER	250 WWS	*	TEST HOLE					LOC
		GAS	—…—	\dashv	GUY WIRE					UND
		HYDRO		••	LIGHT STANDARD					
	··	M.T.S.			BACK OF CURB					SUPV.
ij	150 WM	WATERMAIN	150 WM		CONCRETE		\times	C PROFILE	\times \times	COMM
SCAL		HYDRANT	+		ASPHALT		·	EDGE OF ALLEY LHS	· ·	NOT
	\otimes	VALVE	8		SIDEWALK		\odot — — \odot	EDGE OF ALLEY RHS	\odot	LOCATIO
PLOT	0	MANHOLE	•		PROPERTY LINE		\Diamond	N/W LANE PL		SHOWN AVAILAB
_		CATCH BASIN		+	SURVEY BAR	-	\odot	S/E MEDIAN P L		THAT AL
4 297	∇	CURB INLET	▼		GEODETIC BENCHMARK		LHS/RHS B	GARAGE/PARKING SLAB		CONFIRM
(841x594)	•	POLES T-MTS H-HYDRO		231.33	ELEVATION	232.231	77777	WINDOW/DOOR SILL		LOCATIO OBTAINE
A1 (8	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED	BEFORE

LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE		B.M ELEV				K	ENGINEER'S SEAL		
						OUP			
NOTE:					DESIGNED BY	CR	CHECKED BY	BPA	
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					DRAWN BY	JP	APPROVED BY	ВРА	
THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES	0	ISSUED FOR TENDER	22/08/12	BPA	HOR. SCALE: VERTICAL:	AS NOTED	RELEASED FOR CONSTRUCTION		CONSULTANT DRAWING NO.
BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	BY	DATE	2022-08-12	DATE	-	G05

EROSION CONTROL MEASURES