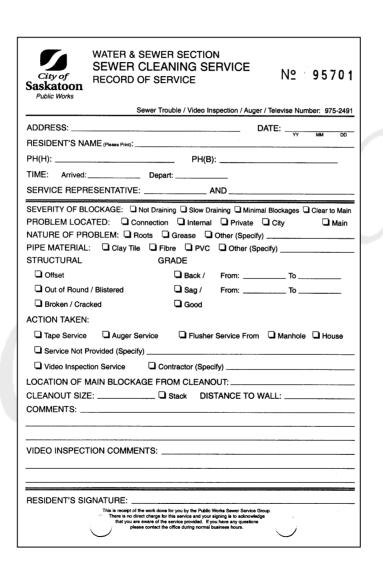


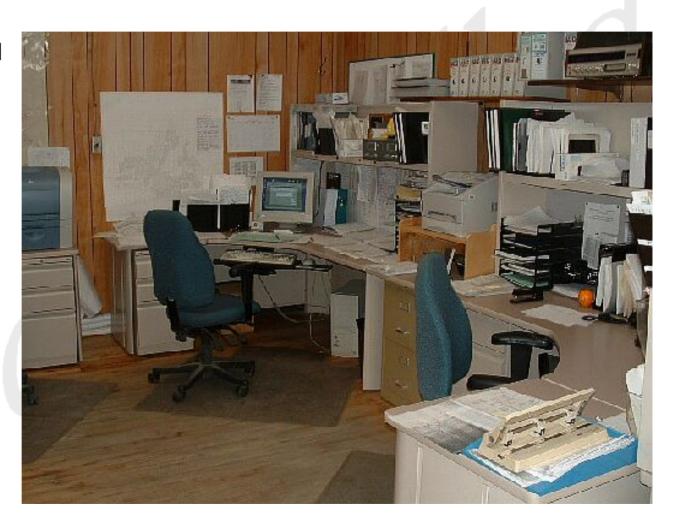
Sewer Cleaning Record of Service

The Sewer
Cleaning
Record
of Service, for the
water and sewer
section.



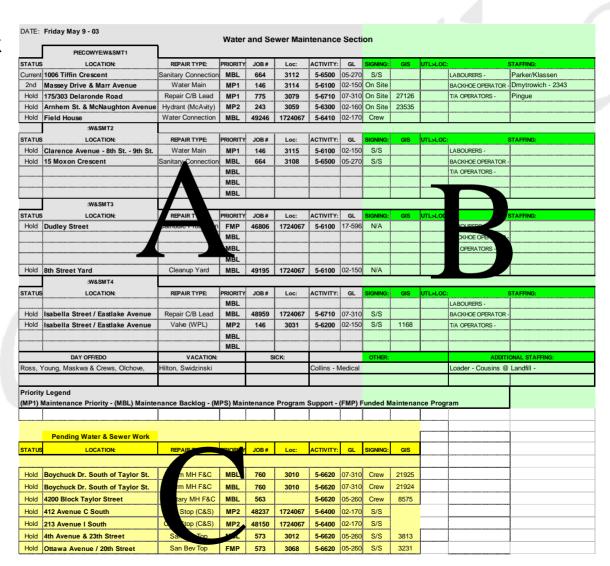
Clearances and Locations

 The Clearances and Locations Work Group will provide drawings, utility locations, location numbers and any required forms.



Daily Work Sheet

 Water & Sewer work to be preformed



Daily Work Sheet Section A

 Section A shows the tasks for each Supervisor IV.

ı		•	Water	and Se	wer Mair	itenance	Sect
	PIECOWYE:W&SMT1						
STATUS	LOCATION:	REPAIR TYPE:	PRIORITY	JOB#	Loc:	ACTIVITY:	GL
Current	1006 Tiffin Crescent	Sanitary Connection	MBL	664	3112	5-6500	05-270
2nd	Massey Drive & Marr Avenue	Water Main	MP1	146	3114	5-6100	02-150
Hold	175/303 Delaronde Road	Repair C/B Lead	MP1	775	3079	5-6710	07-310
Hold	Arnhem St. & McNaughton Avenue	Hydrant (McAvity)	MP2	243	3059	5-6300	02-160
Hold	Field House	Water Connection	MBL	49246	1724067	5-6410	02-170
	:W&SMT2						
STATUS	LOCATION:	REPAIR TYPE:	PRIORITY	JOB#	Loc:	ACTIVITY:	GL
Hold	Clarence Avenue - 8th St 9th St.	Water Main	MP1	146	3115	5-6100	02-150
Hold	15 Moxon Crescent	Sanitary Connection	MBL	664	3108	5-6500	05-27
			MBL				
			MBL				
			MBL				
	:W&SMT3						
STATUS	LOCATION:	REPAIR TYPE:	PRIORITY	JOB#	Loc:	ACTIVITY:	GL
Hold	Dudley Street	Cathodic Protection	FMP	46806	1724067	5-6100	17-596
			MBL				
			MBL				
			MBL				
Hold	8th Street Yard	Cleanup Yard	MBL	49195	1724067	5-6100	02-150
	:W&SMT4	,					
STATUS	LOCATION:	REPAIR TYPE:	PRIORITY	JOB#	Loc:	ACTIVITY:	GL
			MBL				
Hold	Isabella Street / Eastlake Avenue	Repair C/B Lead	MBL	48959	1724067	5-6710	07-310
Hold	Isabella Street / Eastlake Avenue	Valve (WPL)	MP2	146	3031	5-6200	02-150
			MBL				
			MBL				
	DAY OFF/EDO	VACATION:		S	ICK:		
Ross, Young, Maskwa & Crews, Olchove,		Hilton, Swidzinski				Collins - Medical	
	, , , , ,	,					

Daily Work Sheet Section B

 Section B of the Daily Work Sheet shows additional information

on						
SIGNING:	GIS	UTL>LOC:	5	STAFFING:	COMMENTS:	
S/S			LABOURERS -	Parker/Klassen		
On Site			BACKHOE OPERATOR -	Dmytrowich - 2343		
On Site	27126		T/A OPERATORS -	Pingue	Gravel required to complete	
On Site	23535					
Crew						
		1				
SIGNING:	GIS	UTL>LOC:		STAFFING:	COMMENTS:	
S/S			LABOURERS -		No homes out!	
S/S			BACKHOE OPERATOR -			
			T/A OPERATORS -			
		ì				
SIGNING:	GIS	UTL>LOC:		STAFFING:	COMMENTS:	
N/A			LABOURERS -			
			BACKHOE OPERATOR -	***************************************	***************************************	
			T/A OPERATORS -			
N/A						
SIGNING:	GIS	UTL>LOC:		STAFFING:	COMMENTS:	
			LABOURERS -			
S/S			BACKHOE OPERATOR -			
S/S	1168		T/A OPERATORS -			
OTHER:			ADDITIO	ONAL STAFFING:	COMMENTS:	
			Loader - Cousins @		COMINIENTS:	
Loader - Cousins			Loader - Cousiils @	Lanumi -		
unded Maintenance Program			am			

Daily Work Sheet Section C

 Section C shows work pending.

	Pending Water & Sewer Work										
STATUS	LOCATION:	REPAIR TYPE:	PRIORITY	JOB#	Loc:	ACTIVITY:	GL	SIGNING:	GIS		
Hold	Boychuck Dr. South of Taylor St.	Storm MH F&C	MBL	760	3010	5-6620	07-310	Crew	21925		
Hold	Boychuck Dr. South of Taylor St.	Storm MH F&C	MBL	760	3010	5-6620	07-310	Crew	21924		
Hold	4200 Block Taylor Street	Sanitary MH F&C	MBL	563		5-6620	05-260	Crew	8575		
Hold	412 Avenue C South	Curb Stop (C&S)	MP2	48237	1724067	5-6400	02-170	S/S			
Hold	213 Avenue I South	Curb Stop (C&S)	MP2	48150	1724067	5-6400	02-170	S/S			
Hold	4th Avenue & 23th Street	San Bev Top	MBL	573	3012	5-6620	05-260	S/S	3813		
Hold	Ottawa Avenue / 20th Street	San Bev Top	FMP	573	3068	5-6620	05-260	S/S	3231		

Public Works Stores

 Supervisor IV will pick up all materials that can be transported by a ³/₄ ton truck.

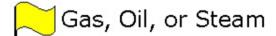


APWA Color Codes

 Representatives from utility companies can field locate their lines if required

APWA Colour Codes





Communications Lines, Cables, or Conduit

Potable Water

Reclaimed Water, Irrigation, and Slurry Lines

Sewers and Drain Lines

Temporary Survey Markings

Proposed Excavation

Trailer Location

 Keep trailers clear of the excavation site.



Excavation Site

 The excavation site may have obstructions like fences and trees.



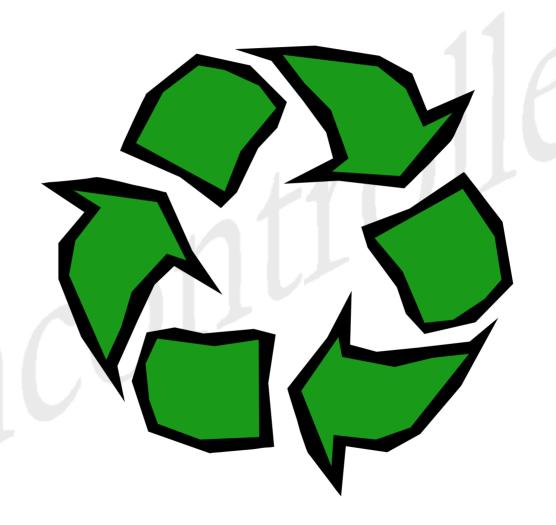
Cutting Asphalt

 Every effort should be made to cut the asphalt or concrete



Asphalt / Concrete Recycling

 Asphalt and concrete are to be recycled.



Correct Shoring

 Correct shoring will be selected.



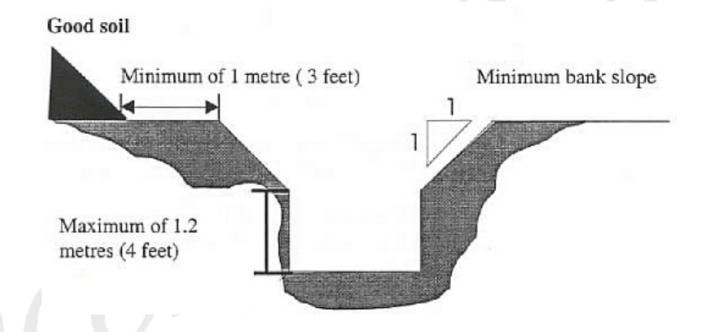
Excavation

 Excavating for a sewer main repair.



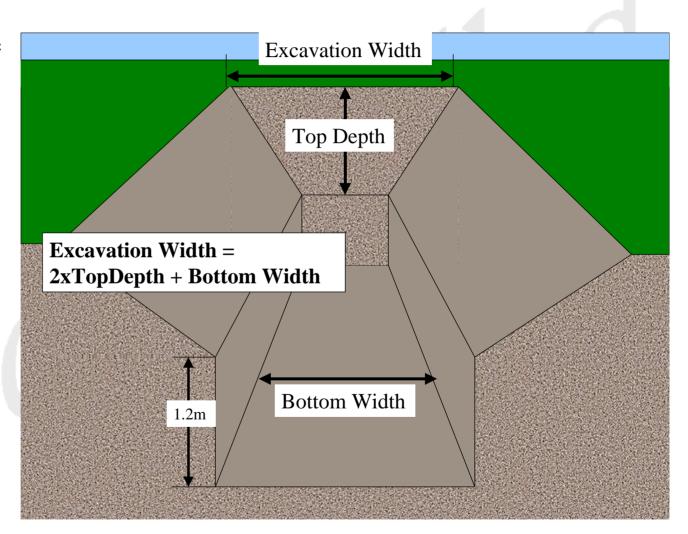
Sloping The Trench Walls

 Protect labourers in an excavation by sloping the walls or installing shoring.



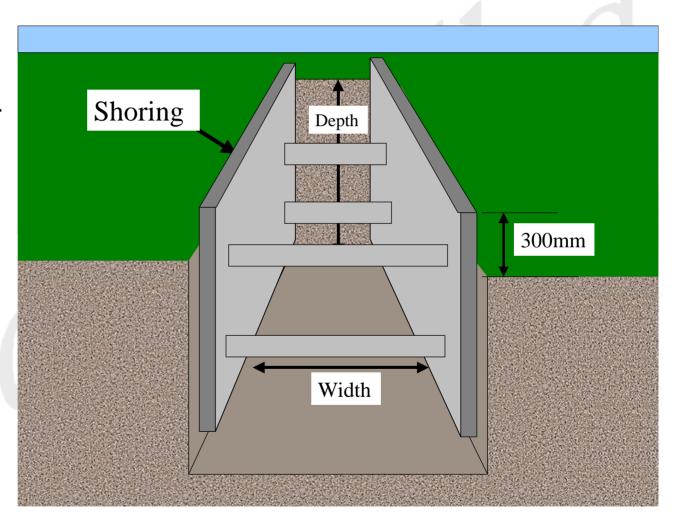
Excavation Size

 Calculate the size of the excavation.



Excavation With Shoring

 Install shoring instead of sloping the excavation walls.



Spoil Piles

 Material from the trench will be sorted



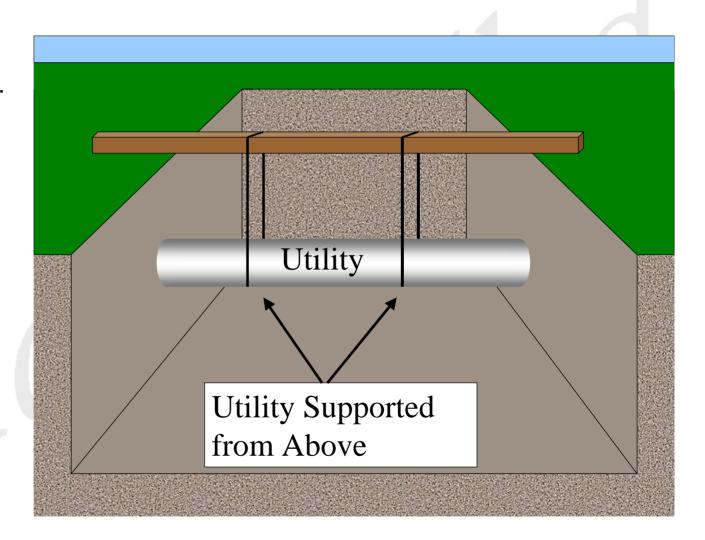
Locating Buried Utilities

• Establish pipe depth using the feeling rod.



Supporting Utilities

 Support buried utilities as required.





Struck Gas Line

 The machine must be immediately turned off



Overhead Power Lines

 Do not exit a vehicle that has contacted overhead power lines.



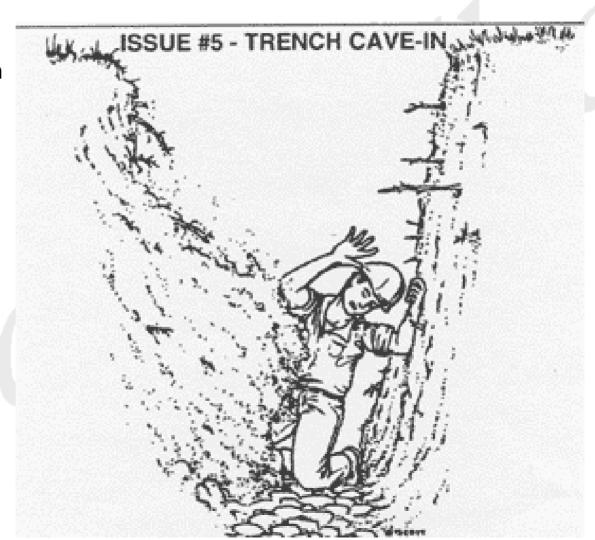
Danger Zone

 Do not go in between the excavator bucket and the truck being loaded.



Trench Cave-in

 No worker will enter a trench greater than 1.2m (4feet) in depth, without a protective structure.



Shoring and Trailer

• Inspect the shoring before use.



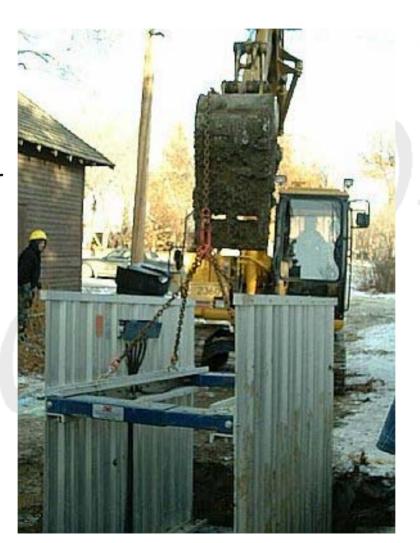
Unloading Shoring

 Hook up chain of adequate length so as not to crowd lift or flexibility.



Shoring Installation

- Use the excavator/backhoe to install shoring.
- Naturally frozen soil is not a substitute for shoring.



Shoring Endplates

- Hydraulically expand shoring.
- Install endplates if required.



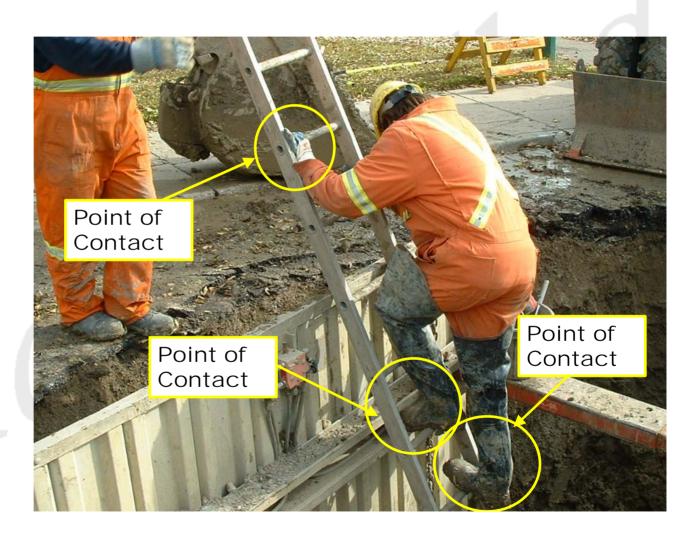
Entering the Excavation

- Secure the ladder
- Wear all Personal Protective Equipment.



Three Points of Contact

 Three points of contact on the ladder.





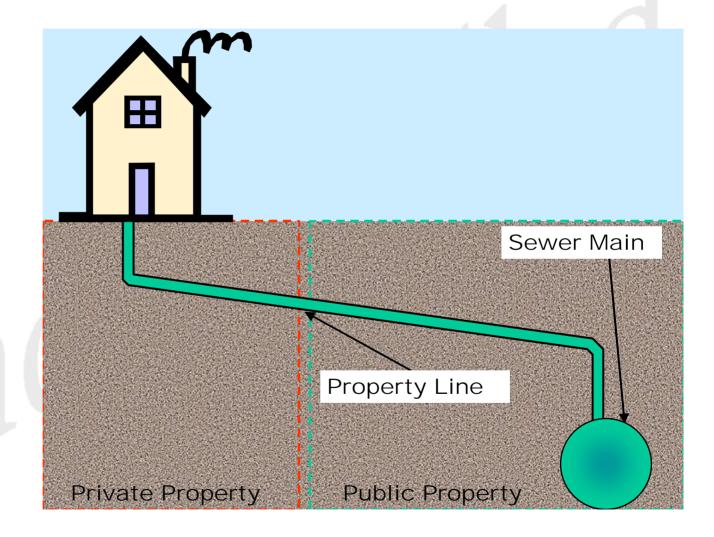
Curb Stop

 Check the curb stop when excavating for a Sewer Connection.



Connection Failure

 A failure must be removed and new pipe added.



Damaged Pipe

• Check the pipe.



Cutting Pipe

• Cut out damaged section of pipe.



Cutting Fibre Pipe

• Cut Fibre Pipe with a hacksaw.



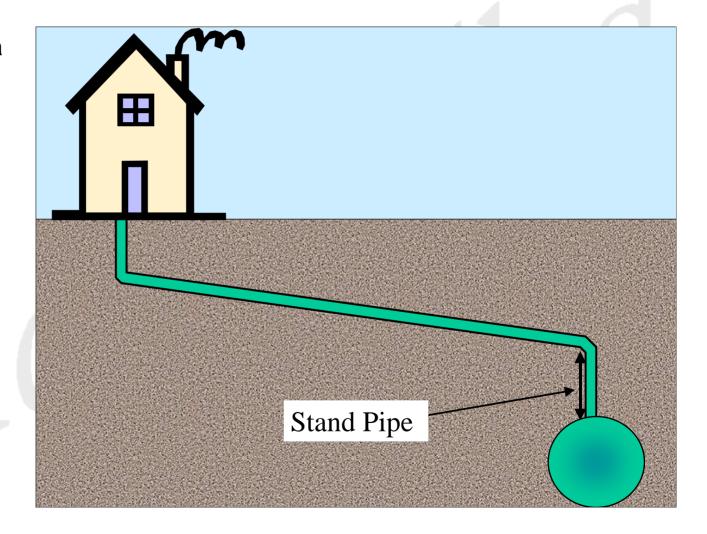
Cutting A/C Pipe

 Cut A/C with a tile cutters.



Stand Pipe

 The stand pipe is a vertical drop from the elbow to the main.



Remove Pipe

 After cutting remove damaged section of pipe.



Block Pipe

 Prevent debris from entering the sewermain.



Check Pipe

 Check the connection pipe for more failures.



Clean Pipe

• Clean the ends of the existing pipe.





Connecting Pipe

 If appropriate the bell end of the pipe can be used to connect the pipe.



Couplers

 A coupler can be used to connect the pipe.



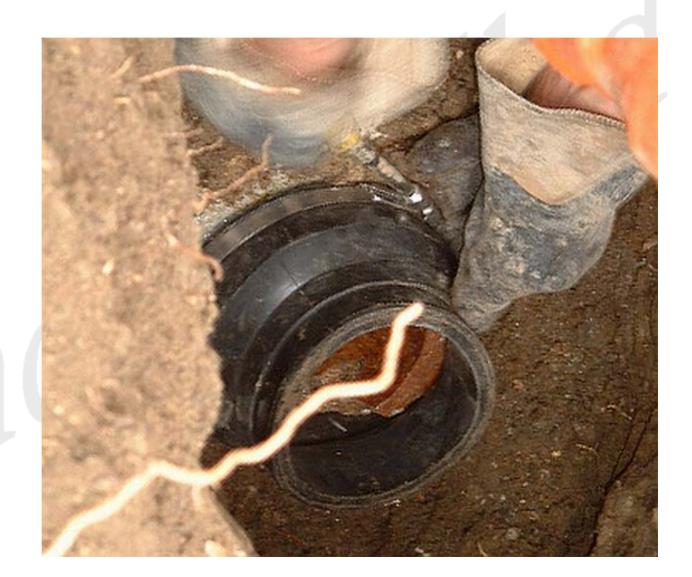
Transition Coupler

 Transition coupler is used to connect different sized pipe.



Coupler Installation

 Install coupler on existing pipe first



Coupler Installation

 Install coupler on replacement pipe or coupler.



90°Bend

90° bends must not be used.



Correct Bends

 The 22.5° and 45° bends are the correct bends to use.





Service Saddle

 A service saddle is used to connect the pipe to the main.



Service Saddle Gasket

 Place gasket on service saddle



Service Saddle on Pipe

 Set service saddle onto pipe



First Clamp

• Affix first clamp to the service saddle



Second Service Saddle

 Affix second clamp to service saddle



Service Saddle Installed

 Service saddle installed onto pipe





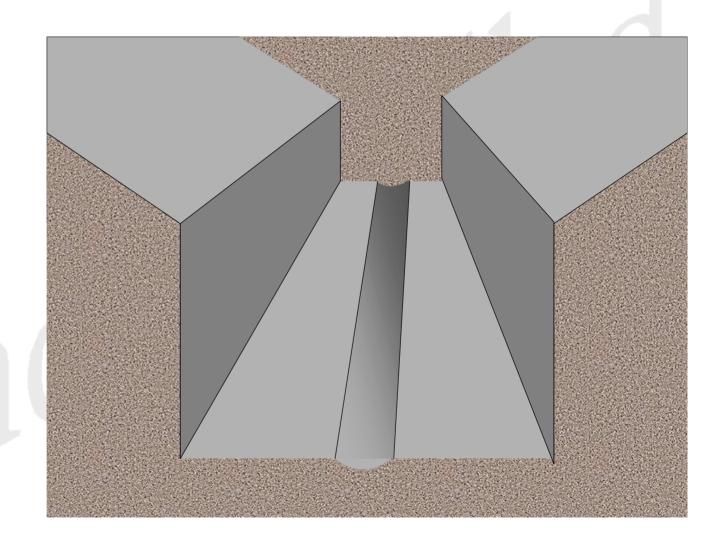
Measure Length

 Measure the length between existing pipe stubs.



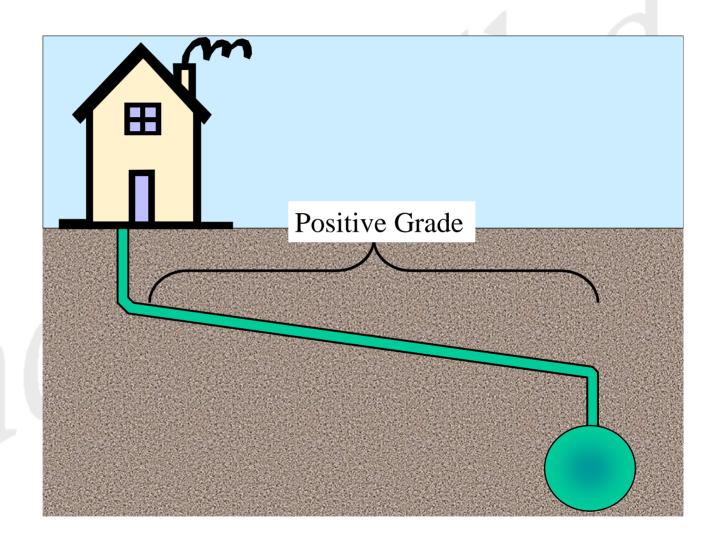
Pipe Foundation

• Prepare pipe foundation.



Positive Grade

 Ensure the pipe has a positive grade.



Cutting Pipe

• Cut the required pipe length.



Insert Pipe into Elbow

• Insert the pipe into the elbow.



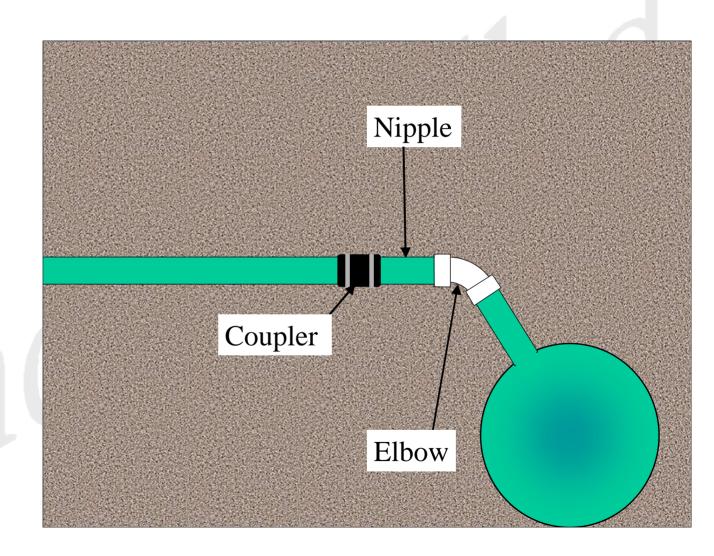
Connect New Pipe

 Connect the new pipe to the existing connection pipe with a coupler.



PVC Nipple

 The PVC nipple is between the coupler and the elbow.



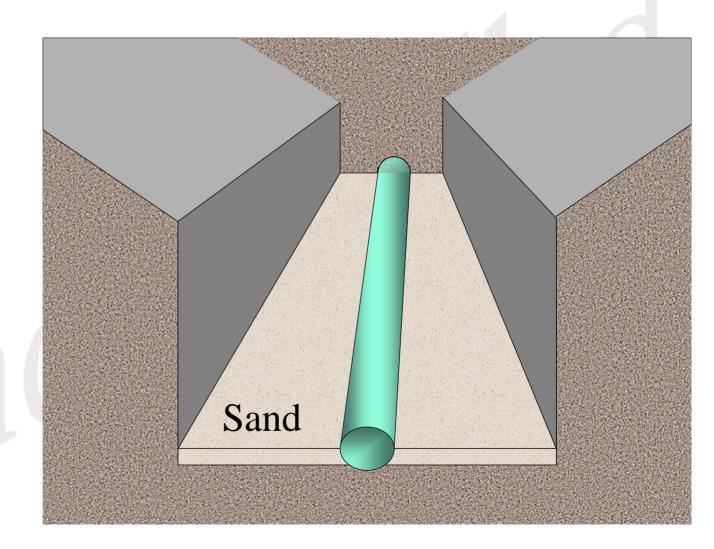
Tighten the Clamps

• Tighten the clamps of the coupler.



Pipe Bedding

 The pipe will be bedded to the spring line, with sand.



Cover Pipe

• Cover pipe and compact.





Service Connections

 Cover services connection and mains with 150mm (6inch) of granular material



Non-shrink Backfill

 Non-shrink backfill shall be used beneath (concrete or paving stone), sidewalks or driveways



Backfilling Other Utilities

• Ensure utilities are backfilled according to the specifications.

Backfill Material

 Backfill material should conform to City of Saskatoon Standards.



Compactors

 Mechanical Methods of compaction are required.



Hydraulic Tamper

 The hydraulic tamper is an excavator attachment



Walk Behind Tamper

 Backfill in 150mm (6inches) lifts.



Handheld Plate Tamper

• Backfill in 150mm (6inches) lifts.



Bucket Tamping

• Bucket tamping will be avoided.



Finished Backfill

 Leave adequate room for asphalt or concrete as per the instructions.

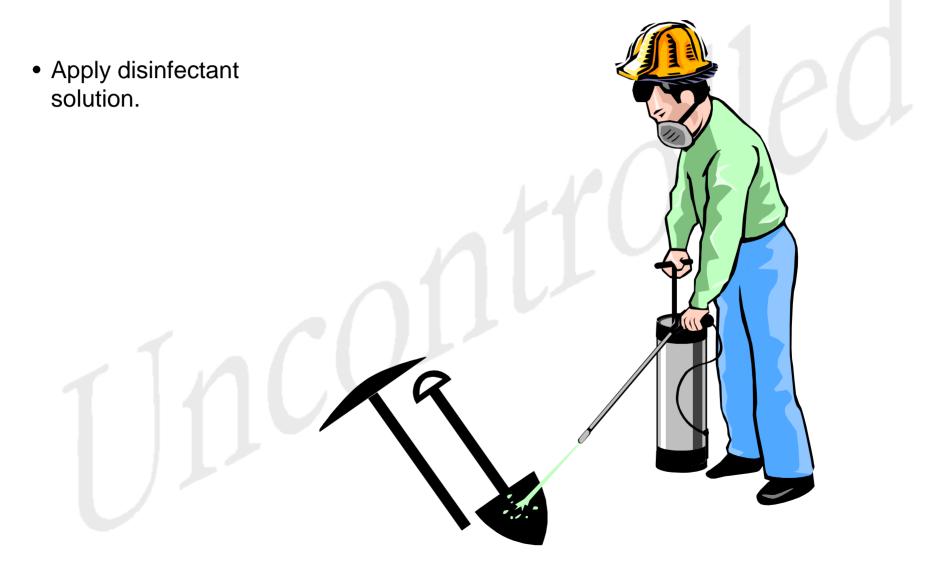


Disinfectant Applicator

• Disinfect all tools after use.



Disinfecting



Traffic Control Devices

 Before leaving the site any unnecessary traffic control devices will be removed



Site Restoration

 The applicable department will perform restoration of the site.



