City of Kootenai

(208) 265-2431 204 Spokane Ave Kootenai, ID. 83840

Permit #	

APPLICATION AND AGREEMENT FOR RIGHT OF WAY ENCROACHMENT for CULVERT INSTALLATION

Applicant Name	Contact Phone#	
Email Address		
Address/Location of Property to Prop	posed Project:	
Name and Mailing Address of Person	, Contractor or Entity Performing Work:	
Name of Property Owner(s):	Phone #	
Mailing Address of Property Owner(s	3):	
<u>-</u>	ed drawing of the type of work to be performed (whether it modification, improvement, extension or repair of culvert) and the work is to be done:	
	(fifty dollars) shall be collected at the time of application. etained for Engineering costs and inspections and shall be	
	hat the permittee has the duty to keep the site safe at all times a y City ordinances and other applicable laws. All repairs to and l be done by permittee.	
damages of every kind and description or property by reason of the perform manner of installation, maintenance a or public structure, and in case any s reason of any of the work or const assigns will, upon notice to it of co	is to protect the City and save the City harmless from all claim which may accrue to or be suffered by any person or person mance of any work done under this permit, character of material operation, or by the improper occupancy of right-of-way of suit or action is brought against said City for damages arising truction done under this permit, the applicant/permittee, its ommencement of such action defend the City, its employees st and expense and will satisfy any judgment after said permit rise to the City.	s, corporation, erials used, or public place g out of, or by successors or s, officers and
STATE LAW TO PROVIDE 48 H	ANY UNDERGROUND EXCAVATION, YOU ARE RE IOURS NOTICE TO ALL AGENCIES WHICH OWN OF C. § 55-2203). CALL BEFORE YOU DIG 811	•
APPLICANT AGREES TO CO	OMPLY WITH ALL CONDITIONS.	
Applicant Signature	Date	

Pursuant to the provisions of Ordinance No. 165 of the City of Kootenai, Bonner County, Idaho, and the above Application and Agreement APPROVAL is granted subject to the provisions, conditions and regulations of this permit application of the City of Kootenai for the proposed project, and subject to the Agreement of the Applicant to the terms and conditions set forth in the above Application and Agreement.

CONDITIONS OF APPROVAL:

- 1.) Grading/depth of the culvert shall be determined by the City Engineer.
- 2.) <u>Culvert material shall be Corrugated Metal Pipe (CMP).</u>
- 3.) Culvert diameter shall be 12-inch minimum unless a larger size is determined by the City Engineer.
- **4.)** Culverts shall be bedded in washed drain rock, pea gravel or approved shot rock. Backfill of culvert shall be course gravel and/or approved shot rock
- **5.)** Flared end sections shall be installed on the inlet and outlet of pipe.
- **6.)** No culvert will be more than 20' in length without written approval of the City Engineer.

· •	eeper than 3' horizontal to 1 foot vertical without written
approval from the City Engineer.	n accordance with City standards shall be removed and
	n accordance with City standards shall be removed and ays of notice by the City at the expense of the property owne
replaced by the applicant within 14 da	ays of notice by the city at the expense of the property owne
Sewer Lateral requirements	
Sewer Lateral requirements	
	<u> </u>
Kootenai-Ponderay Sewer District	Date
Approved by City Engineer	
ADDrovea DV CILV Engineer	Date

City of Kootenai Proposed Variance Culvert Spec Drawing Form

Date:											PERMIT #: ENC														
Applic	ant	Naı	me:											_											
Phone:E						Email:													_						
Site L	ocat	ion	Ad	dres	ss:_																				
Ехсер	tion	Re	que	est?				Υ	'es			No	o 🗆												
1)	Exp	olai	n th	е рі	urpc	se	of yo	our	requ	uest	for	a v	aria	nce	in t	he l	eng	th o	f cu	lver	t de	sire	d.		
2)	On det			sno	ow s —	tora	age.		he o			eng	th, t	he a	apro	ons a	and	the	rep	lace	eme	nt a	rea		
[
-																									
-																									
-																									
-																									
•																									
-																									
-																									
-																									
-																									
-																									
-																									
-																								\vdash	
-																									
-																									
	ſ		_				Ī	Ī				1												ı	

Benefits of Culvert Aprons

- Aprons are a structural reinforcement of the pipe to protect the inlet and outlet form damage and distortion so that it can perform at peak capacity.
- Improves flow capacity of the culvert by increasing the area of the inlet and reduces friction at the inlet. More water is conveyed through the culvert before the culvert fills. Aprons increase the upstream storage capacity of the entrance pool to absorb larger peak flow.
- Aprons reduce the entrance and exit velocity to reduce the erosive force of storm water flowing through a culvert.
- Traffic safety is enhanced as the entrance of the shoulder fill and pipe are sloped to reduce the impact of a vehicle, so it doesn't come to a sudden and forceful stop. Aprons minimize the sharp protruding end of pipes.
- Aprons tend to keep the ends of the pipe from being overgrown with vegetation, thereby reducing clogging, and lowering maintenance.
- As with vegetation, aprons keep sediment and other coarse material away from the pipe inlet reducing plugging and maintenance.
- Culverts with aprons are easier to view and maintain.

Detriments of Culvert Aprons

They cost a little more money to install.

Culvert Supply Information

Cost Estimates for the following: 16 Gauge /12" Corrugated metal culvert materials.

Typically, any size larger than 10ft and 20ft lengths will need to be special ordered.

Consolidated Supply Co. – Ponderay (208) 263-8561

1802 Industrial Way

Sandpoint, Idaho 83864

12" @ \$14.837ft / Flared Ends @ \$124.76 ea.

Contech Construction Suppliers (509) 244-3693

2823 S. Craig Rd.

Airway Heights, WA 99001

12" @ \$11.41 ft / Flared Ends @ \$62.38 ea.

Sandpoint Building Supply – Ponderay (208) 263-5119

477421 Hwy 95 North

Sandpoint, Idaho 83864

12" x 10' = \$144.34 / Flared Ends @ \$90.00 ea.

12" x 20' = \$288.78 / Coupler @ \$32.91 (current price for all lengths in 2ft increments @ \$14.43 per ft)

Arrow Construction Supply (208) 265-2434

477227 Hwy 95 Hwy 95 North

Ponderay, Idaho 83852

12" @ 13.50ft / Flared Ends @ \$85.00 ea. / Coupler @ \$25.00 ea.

(current price for all lengths in 2ft increments @ \$14.43 per ft)

Pacific Steel Recycling (208) 263-2584 (NO current pricing available)

1000 Triangle Drive.

Ponderay, Idaho 83852

NOTE: Prices are subject to change. <u>CALL</u> to confirm updated current pricing and availability.

