



P.O. BOX 5798 VANCOUVER, WA. 98668
 (503) 285-6731 (360) 694-8564 (800) 736-8564
 FAX (503) 285-6907
 WA. CONTR. LICENSE # ACCURCC153M2 OR. CONTR. LICENSE # 48520

TO: City Of Billings
390 North 23rd Street
Billings MT 59101

PERSON REQUESTING BID Jon G. Thompson e-mail thompsonj@ci.billings.mt.us	
PHONE 406-657-8373	FAX: 406-247-8641
DATE QUOTED 11/18/2010	QUOTED BY Vern Balkowitsch Sr.

INSIDE WORK	YES <input type="checkbox"/> NO <input type="checkbox"/>	PLASTIC	YES <input type="checkbox"/> NO <input type="checkbox"/>
OVERTIME	<input type="checkbox"/> <input type="checkbox"/>	EXT RA MAN	<input type="checkbox"/> <input type="checkbox"/>
VACUUM	<input type="checkbox"/> <input type="checkbox"/>	SCAFFOLDING	<input type="checkbox"/> <input type="checkbox"/>
WATER _____ FT		POWER _____ FT	
TRK TO WORK _____ FT		HT OF WORK _____ FT	

QUOTATION JOB ORDER

JOB NAME Rock Removal Project Above Shady Lane	
JOB LOCATION City Parks & Rec Land	
ADDRESS Over Billings Mt off Hwy #3	
CITY Billings MT	CROSS STREET

DATE	DAY	TIME
P.O. NO.		JOB NO.
SEE ON JOB		JOB PHONE
ORDERED BY	ACC JOB NUMBER	

ESTIMATED HOURS REQUIRED TO:

WALL SAW _____ HR CORE DRILL _____ HR

SLAB SAW _____ HR OTHER _____ HR

SPECIAL EQUIPMENT:

QUANTITY	DESCRIPTION	UNIT	PRICE
#1	To Supply Labor & Equipment to Remove from Cliff: Shady Lane area: 30' x 40' x 10' section of rock cliff		
#1	Cactus Park area: 25' x 40' x 10 section of rock cliff Prior to rock removal, ACC will remove rock from house at Cactus Park area. Remove rocks from back of & leave onsite of Shady Lane area, build a rock barrier at the bottom of the cliff and drop the rocks back. ACC to scale cliff prior to and after removal. 5 man crew 10 hour days 1 week at Shady Lane & 2 weeks at Cactus Park area.		
	Total Price For Project: _____		\$189,225.00
	Price based on: 1. Road closed, & Evacuation of residents by others. 2. ACC to protect windows from flying rock debris. 3. Priced based on 1 move in - Continuous work. 4. Work area to be cordoned off from spectators min. 1000'. 5. ACC Safety tape top of cliff. 6. ACC will remove as much rock as possible from private property back to park land. Thank you, <i>Vern Balkowitsch Sr.</i> Vern Balkowitsch Sr.		
STANDBY CHARGED AT \$95.00 PER MAN PER HOUR			
PRICES SUBJECT TO CHANGE IF CONDITIONS ON JOB VARY FROM THIS QUOTATION WE ASSUME NO RESPONSIBILITY FOR LAYOUT			

**CONCRETE CUTTING, INC.****(503) 285-6731 (360) 694-8564**

Fax (503) 285-6907 / Toll (800) 736-8564

6816 NE 40th Ave. / PO Box 5798, Vancouver, WA 98668

**City Of Billings
Rock Removal Project**

Procedure to be used for rock removal:

First Area: Shady Lane

We are going to set up and scale the face of the rock. After this we are planning on bring in a 315-C 40,000lb track hoe from the north side of the cliff off highway 3. This machine will be equipped with a bucket on a 5000lb jack hammer. If at this time we feel the scaling of the rock requires us to (for safety reasons) tie the top of the rock back to the cliff. This will be done by installing 30,000lb pick plates to the top of the boulder and back to the top of the cliff approximately 10' to 30' on top of the cliff, or to good rock. These pick plates are bolted to the face by 4 - 1" holes x 12" long Lag bolts HILTI Brand KB3 1" x 12" after the plates are fastened. There will be 9/16" - 3/4" cable attached from one plate to the other. While this operation is being done the 315 Track Hoe will be in place with a bucket on it approximately 10 to 15 feet below the top of the boulder pushing against the piece to be sure it doesn't move.

Once the rock is secured a plywood safety wall will be installed over the windows of the homes closest to the bottom of the hill. Then will bring in a 161 Mini Hoe with a 15,000lb Winch on it. This will dead man at the bottom of the cliff. We will then tie to the boulder at the bottom of the cliff and pull them down the hill to make a rock wall for protection and stop any rock that may roll. This will be achieved by using the same winch used above to tie off the rock. We will secure the winch to the loose rock on the hill and pull the rock down to the designated area.

Once this is completed the entire area will be evacuated the road will be shut down and the bottom of the rock area corded off 1000'. The crew will go to the top of the cliff remove the cable and plates put jack hammer on the track hoe and come over top of top of cliff approximately 15 to 20' down and break rock, into pieces and be left on site. After the rock is removed we will rescale the rock face and clean off any loose rock, remove plates, cables, track hoe, plywood on homes and this will complete the first area.

Second Area: Cactus Park

We will be using the same 315-C track hoe as on the Shady Lane area which will be transported by a low boy semi truck and trailer. A 240 ton hydraulic crane will be used to lift the 315-C track hoe and the 161 mini hoe to the flat area, north side of damage house. This will be our lay down area. After this done the crane will need to be removed. The proper authorities will be notified prior to the crane being transported on any public road way as the crane takes up the entire road way and street closures are necessary.

At this time the rock face will be scaled and cleared of any loose rock and debris. After this the rock will be evaluated. Again we may put pick plate on this rock to hold it in place while the ground work is in progress. The work area on the top cannot be accessed by any equipment all work must be done by hand. After the rock is secured and the cliff has been scaled the rock on the back side of the at 1313 will be removed to the lay down area or the north side of the house. This will give us access to the back of the house for equipment. We will remove the rock from the house. There will be accumulation by using rock splitter and a break to rock into section put winch plates on then pick out of the house by track hoe. After the rock is removed we will remove as much loose rock as possible from behind the house.

We will close the road evacuated all the residents of the affected houses. Go to the top of the cliff remove the cables and pull over the loose boulders. Hydraulic rams may be used to push boulders over. After they have been dropped the cliff will be scaled all plated removed from top. The road reopened and whatever rock that came down be removed back to park property or lay down area.

Crane will be brought back in equipment removed off of north side of house track hoe removed off site, crane remove off site and street reopened.

Equipment List

315-C Track Hoe Bob Cat

5,000 Hydraulic Breaker

15,000lb Hydraulic Winch

30,000lb Winch Plates

1" holes x 12" deep lag bolts

9/16 - 3/4 cables

14,000lb 161 mini track hoe & breaker

Rock Splitter (385 ton) HC-12

Cable tie Backs

Air Horns

2 Way Radios

ZX-IDS PETZL Self Breaking Descenders

ZX-NAVAKO-BOD Full Body Harness

ZX-R1161-200 PETZL Safety Rope

ZX-R1000 PETZL Safety Rope, Secondary

2535 Trailer Mounted Power Unit (3000 PSI - 35 GPM)

Misc hand tools to perform the job