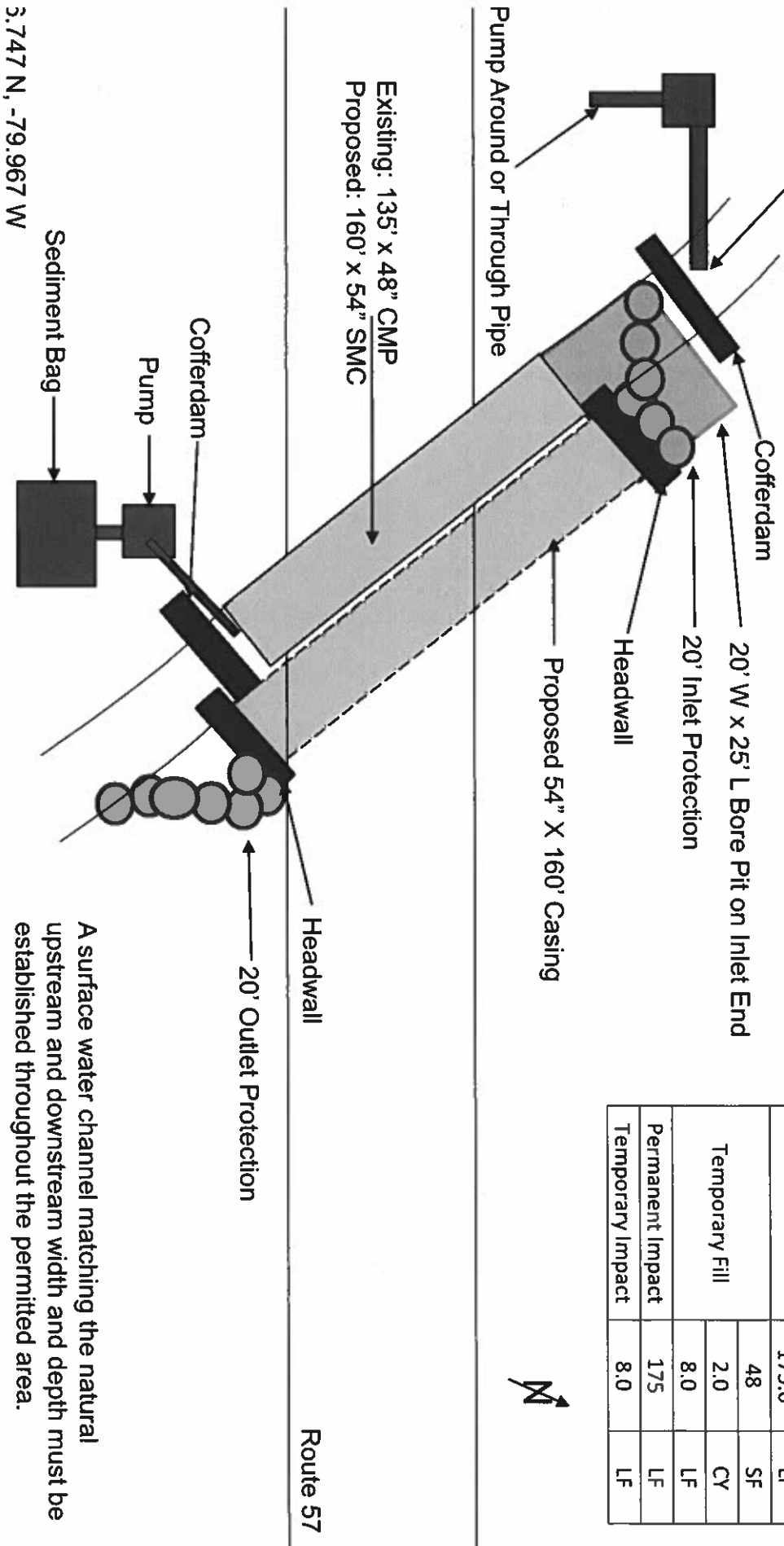


Install cofferdams, set up pumps and sediment bag.  
 Excavate 20' w x 25' l boring pit to set up boring machine in the dry on inlet end.  
 Bore proposed 160' X 54" pipe beside existing 135' X 48" pipe (6" countersinking) once new pipe is bored backfill existing pipe with flowable fill or suitable material.

Replace headwalls on inlet and outlet ends of new pipe.  
 Place 20' of riprap for inlet protection and 20' of riprap for outlet protection to tie-in stream channel.  
 Remove cofferdams, pumps, and sediment bag.  
 Stabilize impacted areas above OHW with seed and straw mulch.  
 All excess material will be disposed of at an approved disposal site.  
 Removal of less than 0.1 acres of trees will be required.

**Drawing Not to Scale**

Flow, UT to Smith River, 6' w x 1' d, OHWM = 767-ft AMSL (NAD27)



Impacts Below OHW			
Excavation	150	SF	
	3.0	CY	
	25.0	LF	
Permanent Fill	1,050.0	SF	
	54.0	CY	
	175.0	LF	
Temporary Fill	48	SF	
	2.0	CY	
Permanent Impact	175	LF	
Temporary Impact	8.0	LF	



A surface water channel matching the natural upstream and downstream width and depth must be established throughout the permitted area.

3.747 N, -79.967 W

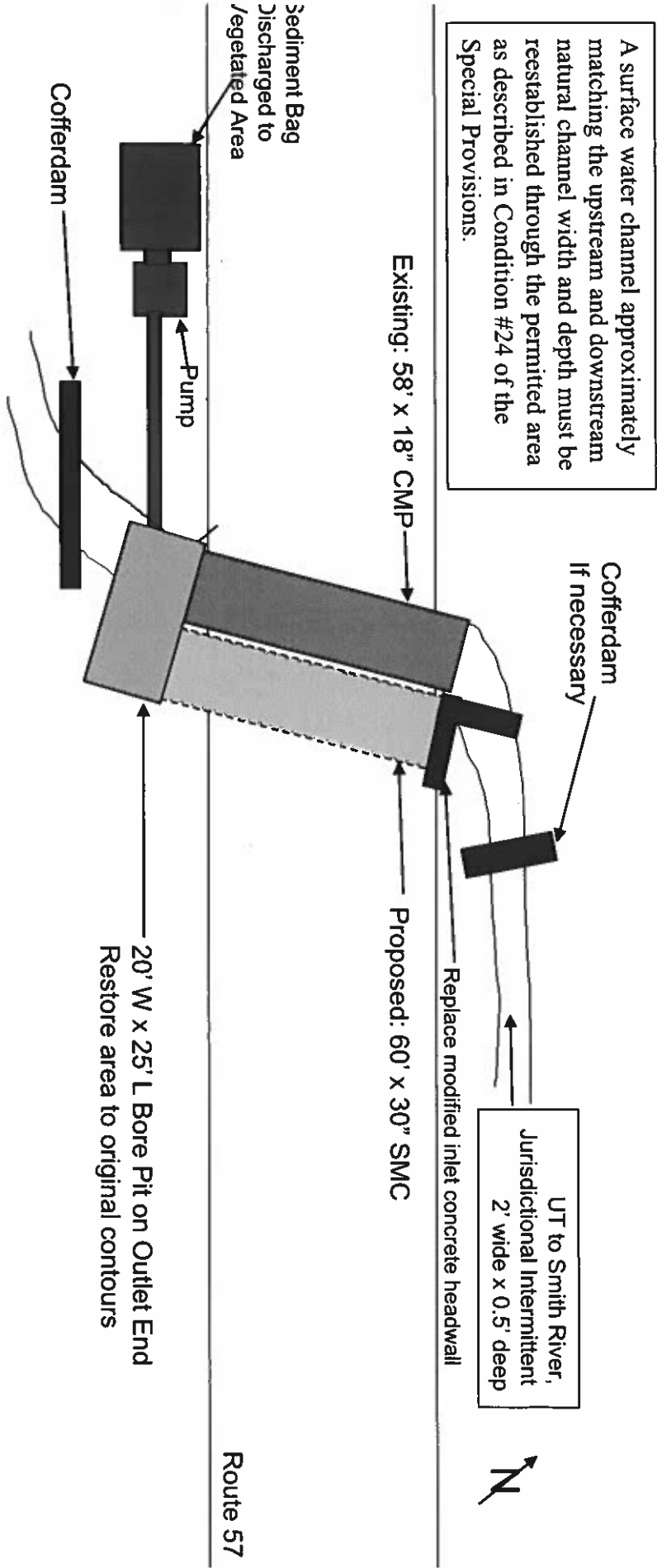
Install cofferdam, set up pump and sediment bag on outlet end of work area.  
 Bore proposed 60' X 30" SMC beside existing 58' X 18" CMP. Once the proposed pipe is in place fill in existing CMP with flowable fill or suitable material. (Minimum 6" countersinking is required).  
 Remove cofferdams, pumps, and sediment bag.  
 Replace inlet end headwall.

Stabilize impacted areas with seed and straw mulch.  
 All excess material will be disposed of at an approved disposal site.  
 Remove less than 0.1-acres of trees.

Drawing Not to Scale

A surface water channel approximately matching the upstream and downstream natural channel width and depth must be reestablished through the permitted area as described in Condition #24 of the Special Provisions.

Impacts below OHW:  
 Excavation = 50.0 SQFT (2.0 CY)  
 Permanent Fill = 170.0 SQFT (4.0 CY)  
 Temporary Fill = 16.0 SQFT (1.0 CY)  
 Permanent Impact = 85.0 LF  
 Temporary Impact = 8.0 LF



20' W x 25' L Bore Pit on Outlet End  
 Restore area to original contours