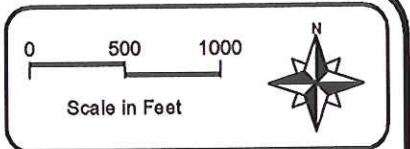
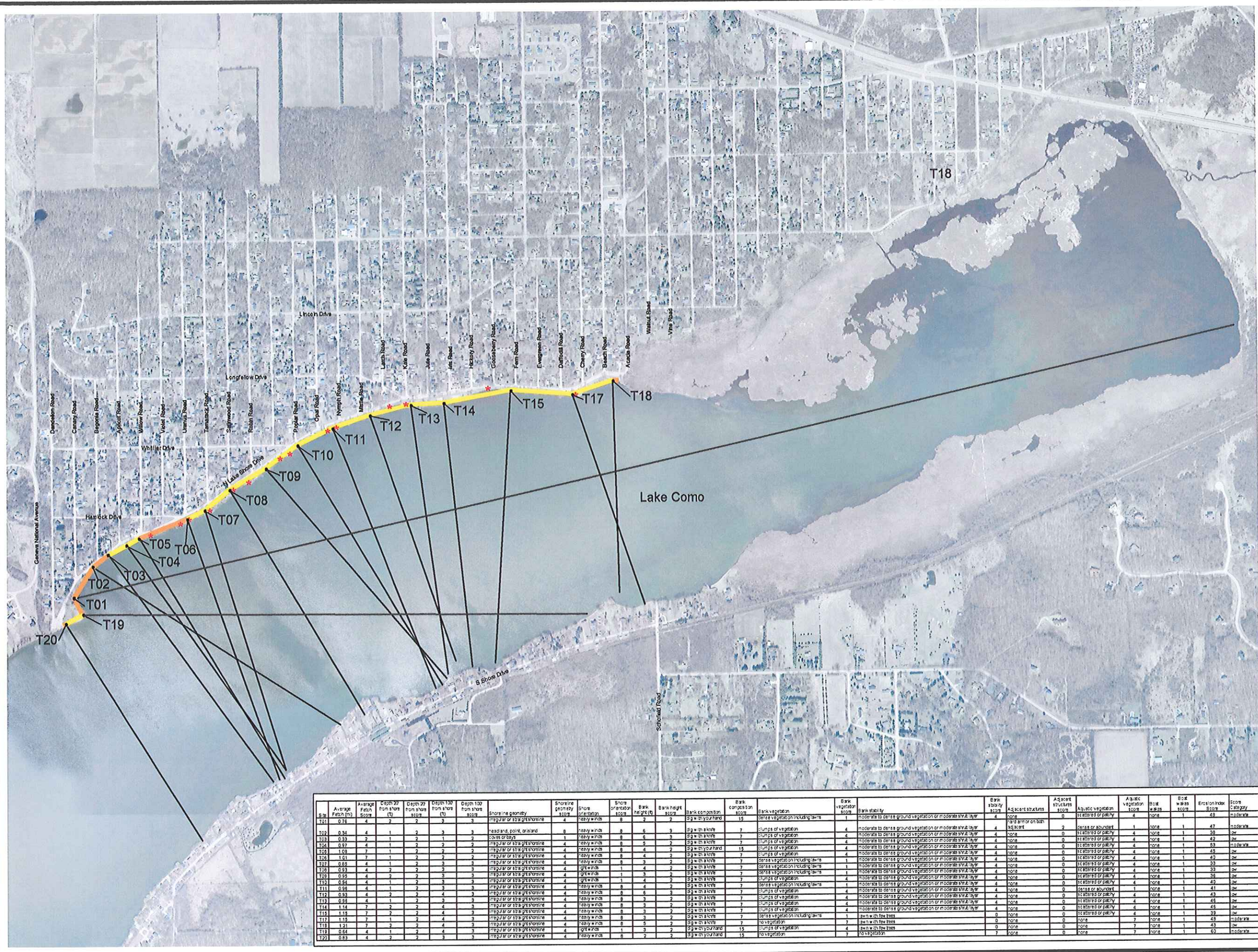




L:\000000\_000073\_VL1\Lake Como Shoreline\Working\ColorMap\Lake Como Shoreline.mxd, Transsect: 1, 2/1/2010, 8:50:53 AM



**LEGEND**

Low Erosion Potential  
 Moderate Erosion Potential

T## Transect Number

\* Specific areas of high shoreline areas and great bank erosion potential. These areas are steeper than adjacent shoreline areas and several different stabilization techniques may need to be used within the same treatment zone.

No.	Revision/Issue	Date

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Lake Como

North Shore Erosion Potential Assessment

Transect	Average Fetch (ft)	Average Fetch Slope	Depth 20 from shore (ft)	Depth 25 from shore (ft)	Depth 100 from shore (ft)	Shoreline geometry	Shoreline slope	Shore orientation	Shore elevation (ft)	Bank height (ft)	Bank composition	Bank vegetation	Bank stability	Bank slope	Adjacent structures	Adjacent structures slope	Aquatic vegetation	Aquatic vegetation slope	Bank width	Bank width slope	Erosion Index Score	Score Category
T01	0.76	4	2	2	3	regular or straight shoreline	4	heavy woods	8	6	3	big with lawn	4	moderate to dense ground vegetation or moderate shrub layer	4	none	0	none	1	47	moderate	
T02	0.34	4	1	2	3	headland, point, or island	8	heavy woods	8	6	3	big with lawn	7	clumps of vegetation	4	none	0	none	1	58	low	
T03	0.33	2	1	2	1	coves or bays	4	heavy woods	8	6	3	big with lawn	7	clumps of vegetation	4	none	0	none	1	47	low	
T04	0.97	4	1	2	2	regular or straight shoreline	4	heavy woods	8	4	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	53	moderate	
T05	1.00	7	1	2	2	regular or straight shoreline	4	heavy woods	8	4	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	45	low	
T06	1.01	7	1	2	2	regular or straight shoreline	4	heavy woods	8	4	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	42	low	
T07	0.83	4	1	2	3	regular or straight shoreline	4	heavy woods	8	3	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	53	low	
T08	0.93	4	2	2	3	regular or straight shoreline	4	heavy woods	1	4	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	53	low	
T09	0.95	4	2	2	3	regular or straight shoreline	4	heavy woods	1	4	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	53	low	
T10	0.94	4	1	2	3	regular or straight shoreline	4	heavy woods	8	4	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	42	low	
T11	0.98	4	1	2	3	regular or straight shoreline	4	heavy woods	8	4	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	41	low	
T12	0.93	4	2	2	4	regular or straight shoreline	4	heavy woods	8	6	3	big with lawn	7	clumps of vegetation	4	none	0	none	1	43	low	
T13	0.93	4	1	2	4	regular or straight shoreline	4	heavy woods	8	3	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	45	low	
T14	1.14	7	2	2	4	regular or straight shoreline	4	heavy woods	8	3	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	52	low	
T15	1.18	7	2	2	4	regular or straight shoreline	4	heavy woods	8	3	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	52	low	
T16	1.18	7	2	2	4	regular or straight shoreline	4	heavy woods	8	3	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	48	moderate	
T17	1.21	7	2	2	4	regular or straight shoreline	4	heavy woods	8	3	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	48	low	
T18	0.84	4	1	2	4	regular or straight shoreline	4	heavy woods	1	3	2	big with lawn	7	clumps of vegetation	4	none	0	none	1	48	low	
T19	0.84	4	1	2	4	regular or straight shoreline	4	heavy woods	8	2	2	big with lawn	15	clumps of vegetation	7	none	0	none	1	62	moderate	
T20	0.83	4	2	2	3	regular or straight shoreline	4	heavy woods	8	2	2	big with lawn	15	no vegetation	7	none	0	none	1	62	moderate	

PROJECT NO	00073	SHEET NO	2
DESIGNED BY	VJM		
DRAWN BY	CFR		
CHECKED BY	VJM		
APPROVED BY			
ISSUE DATE	01/21/2010		

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Scale as Noted

LEGEND

1	Rebidding Package	09/15/06
No.	Revision/Issue	Date

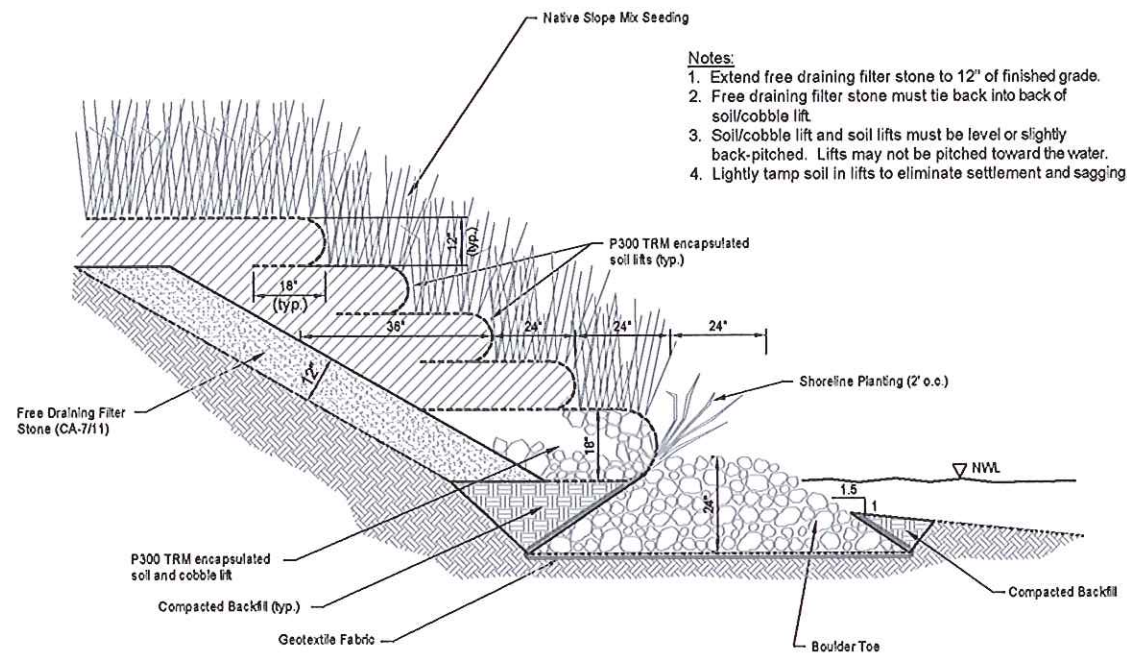
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Lake Como

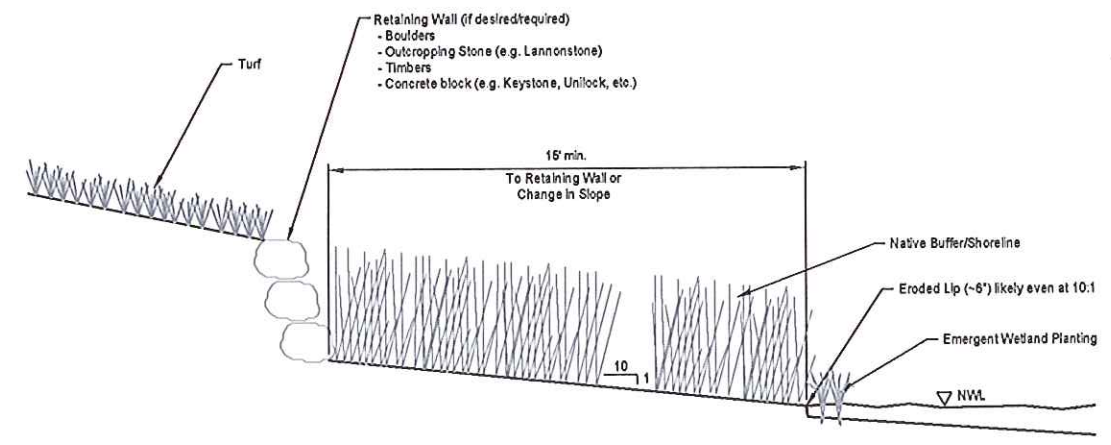
Shoreline Erosion Treatment Alternatives

PROJECT NO	09073	SHEET NO	<b>3</b>
DESIGNED BY	VJM		
DRAWN BY	CFR		
CHECKED BY	VJM		
APPROVED BY			
ISSUE DATE	01/21/2010		

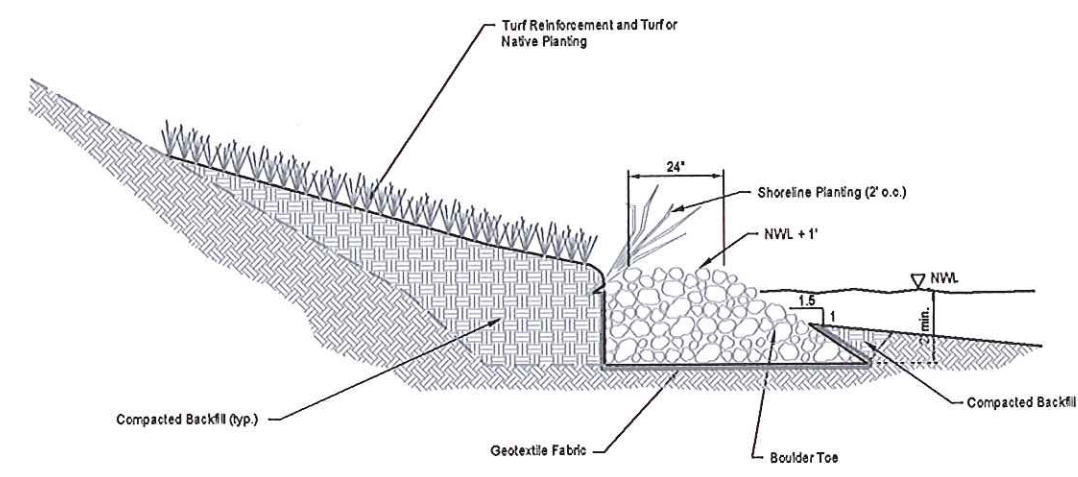
- Notes:**
1. Extend free draining filter stone to 12" of finished grade.
  2. Free draining filter stone must tie back into back of soil/cobble lift.
  3. Soil/cobble lift and soil lifts must be level or slightly back-pitched. Lifts may not be pitched toward the water.
  4. Lightly tamp soil in lifts to eliminate settlement and sagging.



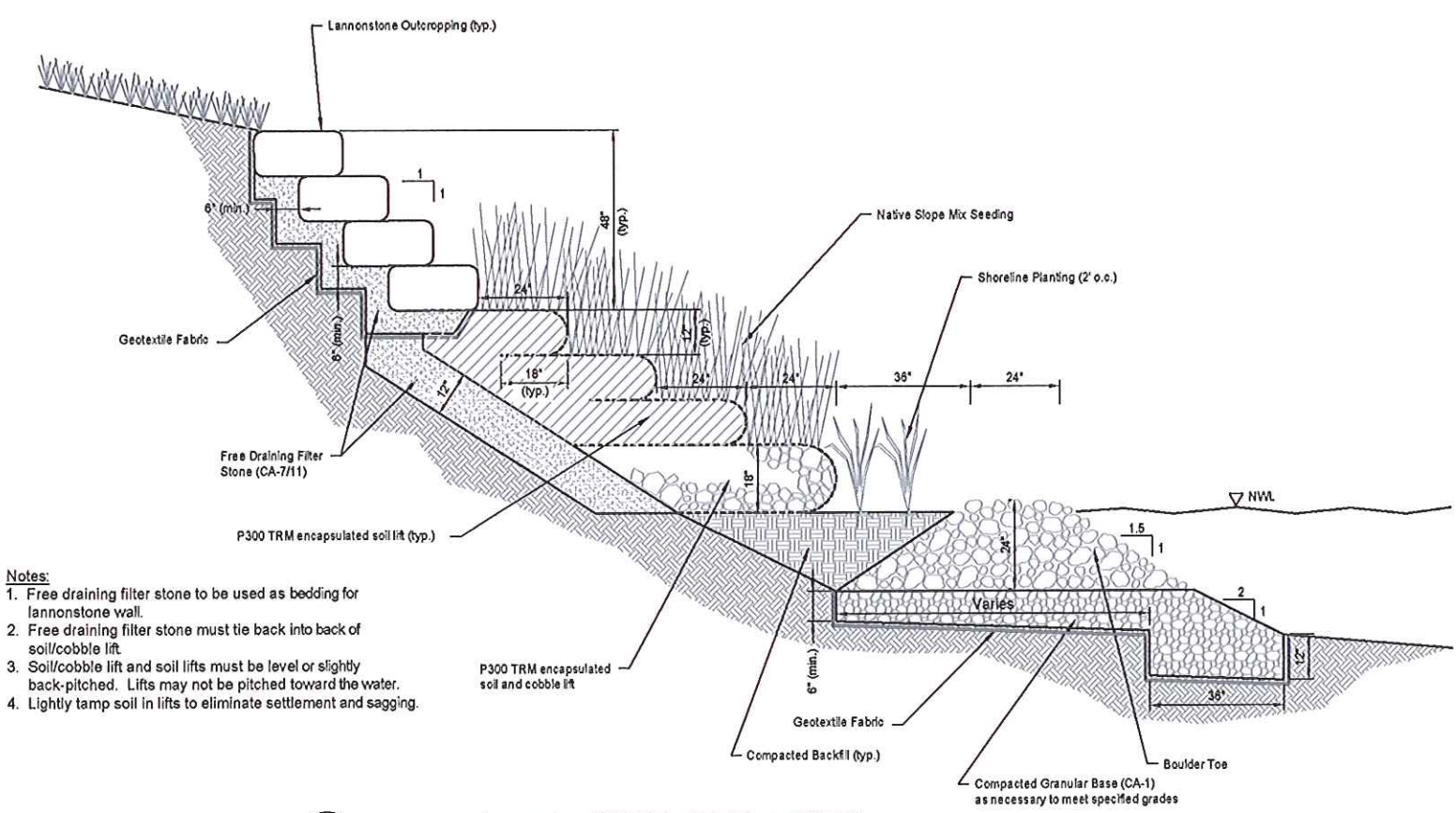
1 Typical Vegetated Geogrid Detail (Not to Scale)



3 Regraded/Vegetated Shoreline Detail (Not to Scale)

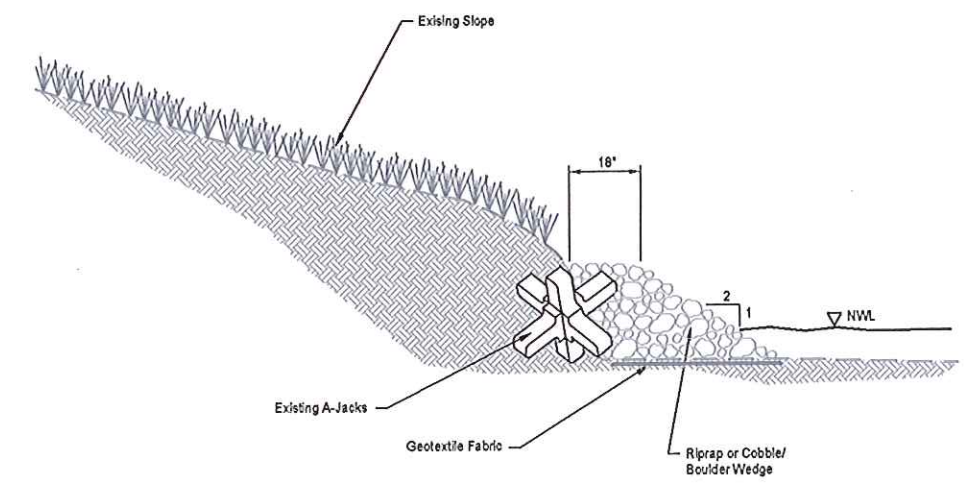


4 Typical Boulder Toe Detail (Not to Scale)



2 Lannonstone Wall & Vegetated Geogrid Detail (Not to Scale)

- Notes:**
1. Free draining filter stone to be used as bedding for lannonstone wall.
  2. Free draining filter stone must tie back into back of soil/cobble lift.
  3. Soil/cobble lift and soil lifts must be level or slightly back-pitched. Lifts may not be pitched toward the water.
  4. Lightly tamp soil in lifts to eliminate settlement and sagging.



5 A-Jacks Modification Detail (Not to Scale)

I:\00000\_1000023\_3ML\1-16-Cross-Section\1-16-Cross-Section.dwg, Xref: 1-17-10\1-16-Cross-Section.dwg

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