



**LAND USE SUMMARY**

1. TOTAL LAND = 3.13 AC. (136,457.61 SQ.FT.)
2. USEABLE AREA = 1.01 AC. (43,960.34 SQ.FT.)
- (WITH 10' BUFFER)
3. USEABLE AREA = 1.15 AC. (49,887.73 SQ. FT.)
4. AREA WITHIN FLOODWAY = 1.45 AC. (63,317.17 SQ.FT.)
5. MITIGATION VOLUME REQUIRED = 650 x 20 = 13,000 CU.FT.
6. MITIGATION VOLUME PROVIDED = 13,000 CU.FT.

**SCENARIO 1**

PROPOSED FILLING THE AREA LOWER THAN ELEVATION 48.00' TO INCLUDE THE ADDITIONAL 10' INSIDE THE FLOODPLAIN.

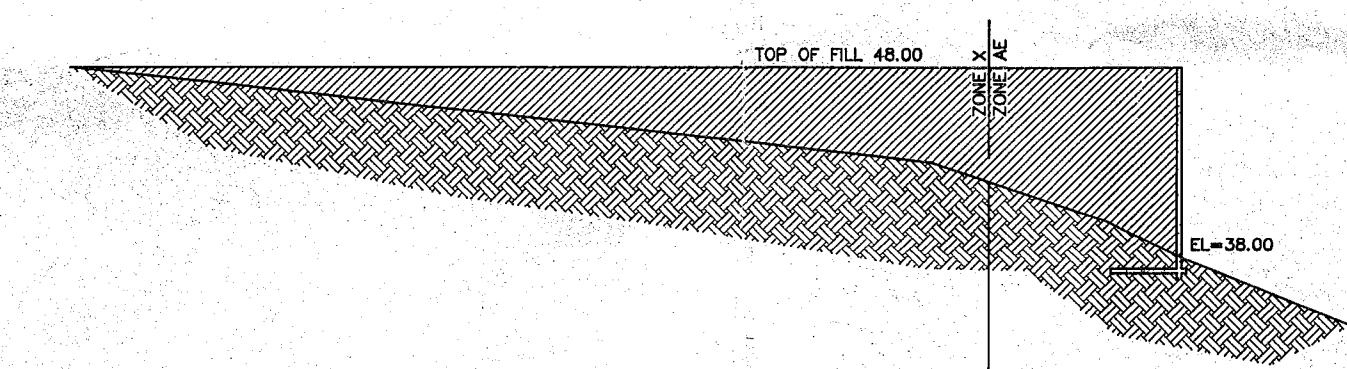
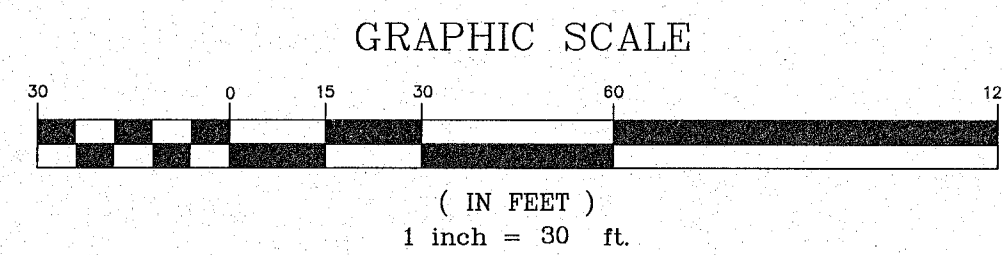
1. TOTAL AREA = 1.15 AC. AT ELEVATION 48.00'
2. AREA TO BE FILLED = 0.85 AC. (37,086 SQ.FT.)
3. VOLUME OF FILLING = 8,600 CU.YD.
  - 1 FOOT OF EXTRA FILLING DUE TO STRIPING AND DEMOLITION = 1,855.00 CU.YD.
  - 25% EXTRA FILLING FOR COMPACTION = (8600+1855) = 10,455x0.25 = 2,613 CU.YD.
  - TOTAL FILLING = 8600+1855+2613 = 13,068 CU.YD.
  - TOTAL COST FOR FILLING = 13,068x15 = \$196,020.00
4. LENGTH OF RETAINING WALL AROUND THE FILLING AREA = 905 L.F.
5. TOTAL COST TO BUILT THE WALL = 905-321 = 584 +  $\frac{321}{2}$  = 745x550 = \$409,750.00 (OPTION-A)
6. TOTAL COST TO BUILT THE WALL = 905-321 = 584 +  $\frac{321}{2}$  = 745x475 = \$353,875.00 (OPTION-B)

**SCENARIO 2**

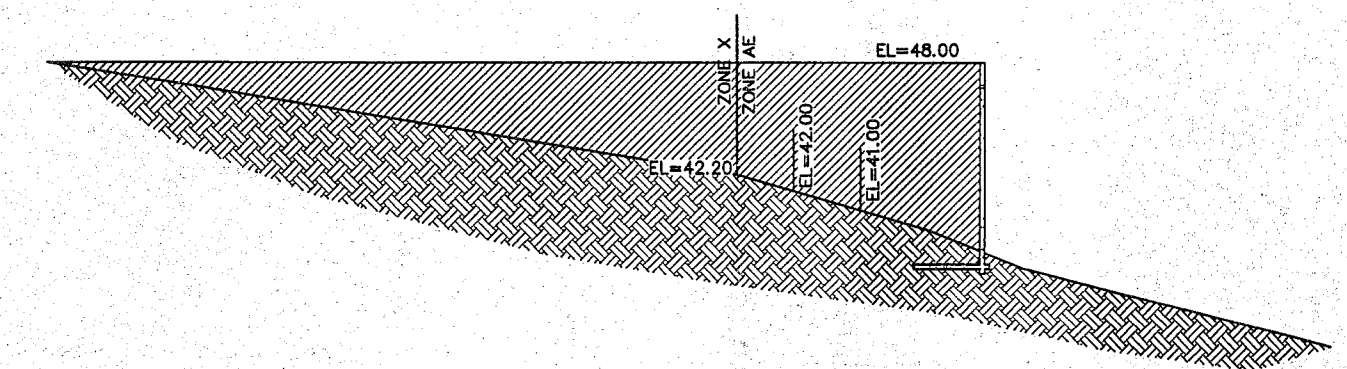
PROPOSED FILLING THE AREA LOWER THAN ELEVATION 48.00' ALONG THE GULLEY SIDE TO INCLUDE THE ADDITIONAL 10' INSIDE THE FLOODPLAIN.

1. TOTAL AREA = 0.75 AC. AT ELEVATION 48.00'
2. AREA TO BE FILLED = 0.46 AC. (20,157 SQ.FT.)
3. VOLUME TO BE FILLED = 4,615 CU.YD.
  - 1 FOOT OF EXTRA FILLING DUE TO STRIPING AND DEMOLITION = 1,221.00 CU.YD.
  - 25% EXTRA FILLING FOR COMPACTION = (4615+1221) = 5,836x0.25 = 1,459 CU.YD.
  - TOTAL FILLING = 4615+1221+1459 = 7,295.00 CU.YD.
  - TOTAL COST TO FILL = 7,295x15 = \$109,425.00
4. LENGTH OF RETAINING WALL AROUND THE FILLING AREA = 495 L.F.
5. TOTAL COST TO BUILT THE WALL = 495-298 = 197 +  $\frac{298}{2}$  = 346x550 = \$190,300.00 (OPTION-A)
6. TOTAL COST TO BUILT THE WALL = 495-298 = 197 +  $\frac{298}{2}$  = 346x475 = \$164,350.00 (OPTION-B)

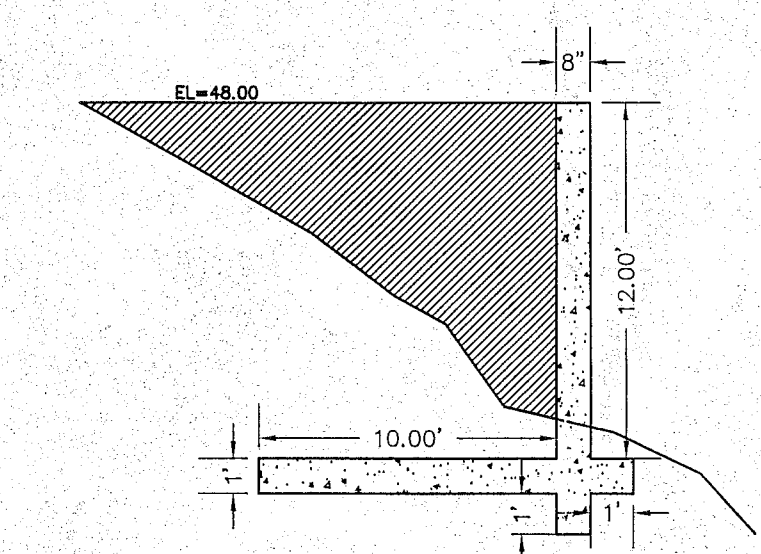
NOTE: THIS IS A PRELIMINARY ESTIMATE THE CONSTRUCTION COST THE ACTUAL CONSTRUCTION WILL VARY DEPENDING ON ACTUAL SURVEY AND GEOTECHNICAL REPORT AND DESIGN OF RETAINING WALL.



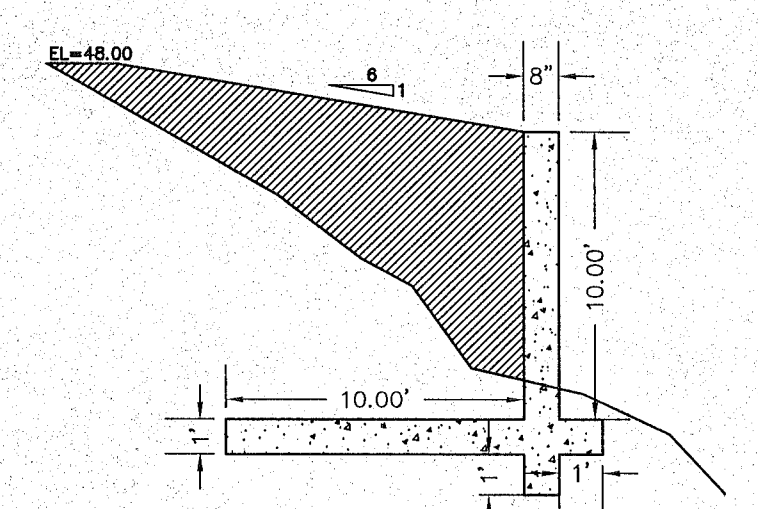
SECTION "A-A"



SECTION "B-B"



OPTION "A-A"



OPTION "B-B"

- LEGEND**
1. BUILDBLE AREA
  2. 10' ENCROCHMENT
  3. MITIGATION AREA
  4. SCENARIO 2

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**TALL TIMBER SECTION OF RIVER OAKS**  
 3994 INVERNESS  
 EXHIBIT-A

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DRAWN BY: B.E.C.    DATE: APRIL, 2008    SCALE: 1" = 30'  
 CHECKED BY: B.E.C.    JOB No. 08030    SHEET No. 1 OF 1

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