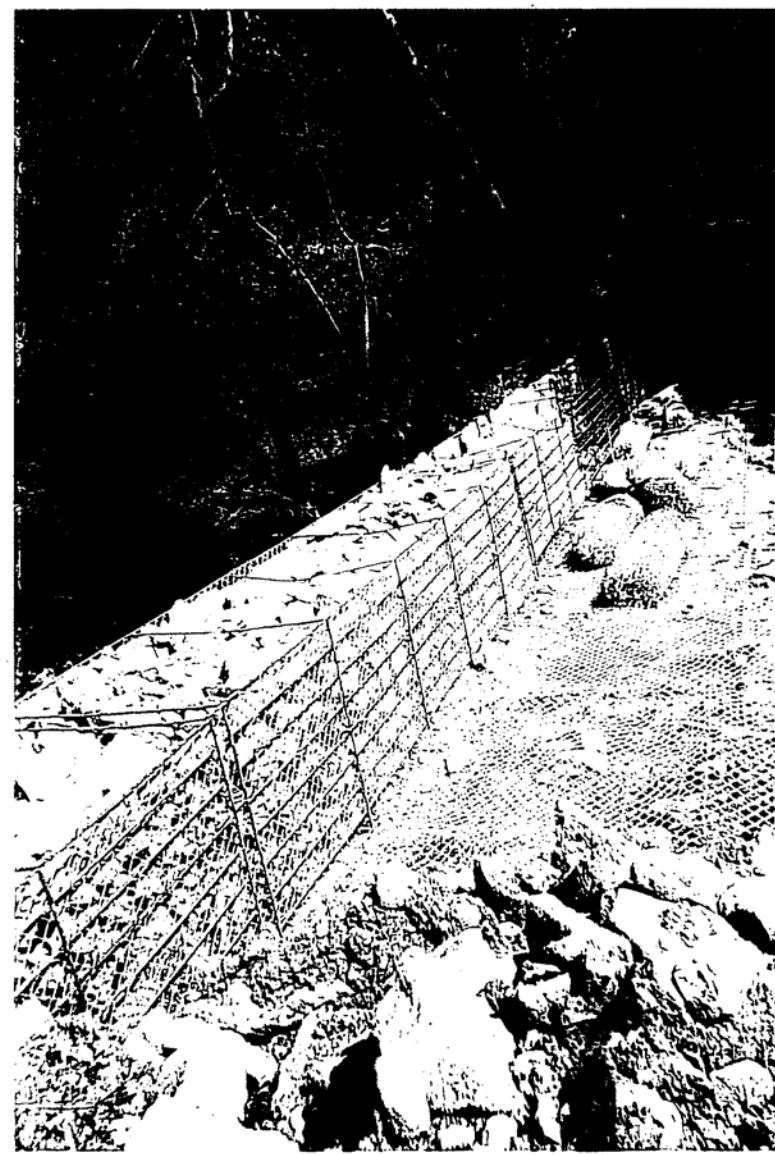




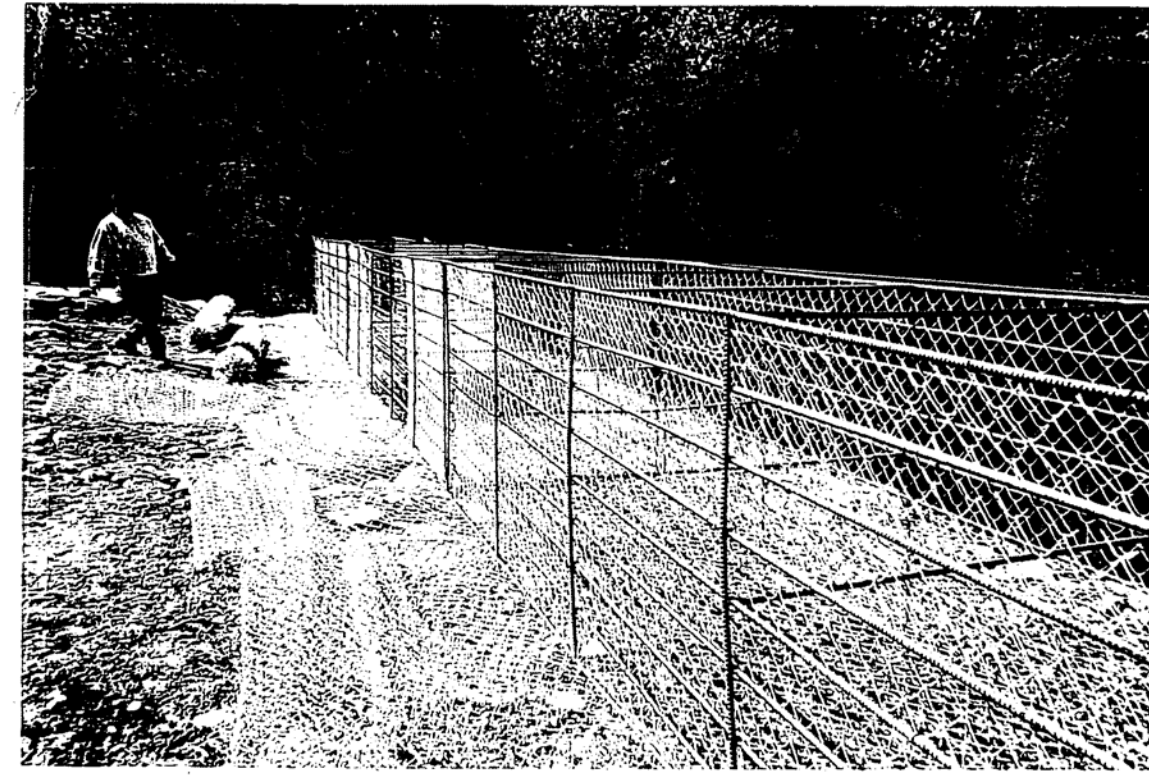


**DESCRIPTION**

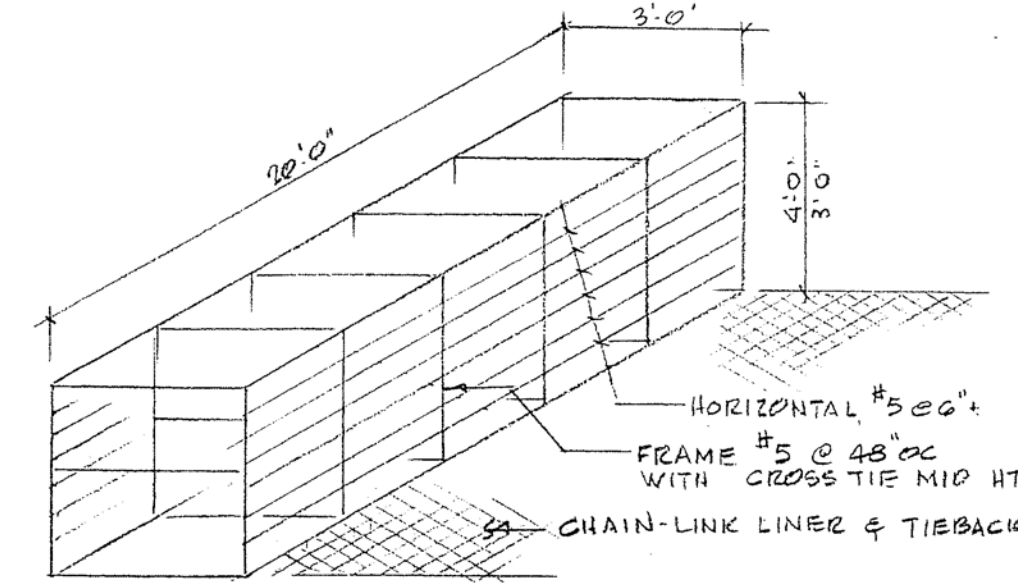
- a THIS REVETMENT IS A COMBINATION OF GABIONS & GEORGRIDS FORMING MECHANICALLY STABILIZED FILL.
- b THE GABIONS ARE BASED ON THE WORLD-WIDE, AGE OLD CONCEPT OF WIRE BASKETS, OR CAGES FILLED WITH STONE, FOR SLOPE PROTECTION. THEY ARE POROUS, FLEXIBLE, CAPABLE OF ACCEPTING SETTLEMENT OR DEFLECTION WITH NO LOSS OF INTEGRITY. LOCAL FLORA WILL TAKE ROOT ON THE LEDGES AND INTERSTICES TO PRESENT A NATURAL ROCK FACE APPEARANCE.
- c MARIN SANITARY HAS ENHANCED THE GABION CONCEPT BY FABRICATING WELDED CAGES OF  $\frac{5}{8}$ " REINFORCING BARS WHICH ARE LINED WITH CHAIN-LINK FENCING WHICH IS ALSO ROLLED BACK INTO THE FILL 25 FEET MINIMUM TO PROVIDE A TIEBACK OR GEORGRID TO MECHANICALLY STABILIZE THE FILL.
- d MARIN SANITARY HAS AN ABUNDANCE OF CONCRETE RUBBLE BROUGHT IN DAILY IN CONSTRUCTION DEMOLITION DEBRIS WHICH IS SEPARATED AND CLASSIFIED FOR RE-USE AS SOIL AMENDMENT, SAND, GRAVEL RE-USEABLE WHOLE BRICK AND RIP-RAP SIZE CONC. RUBBLE. (NOTE METAL, WOOD, GLASS, PLASTER ARE RECOVERED OR DISPOSED OF SEPERATELY) THIS CONC. RUBBLE IS HAND PLACED IN THE GABIONS. THE CAGES ARE WELDED TOGETHER LONGITUDINALLY AND TRANSVERSLY AT EACH CROSSING POINT TO THE CAGE BELOW.
- e THE FILL IS A MELANGE OF RUBBLE, SHARDS OF CONCRETE PIPE, TERRAZZOTA PIPE, TILES, PAVERS, ETC DUMPED, UNCOMPACTED, RANDOM, NON-HOMOGENOUS OR ISOTROPIC, LOOSE MANY VOIDS BUT HARSH WITH ANGULAR SURFACES.



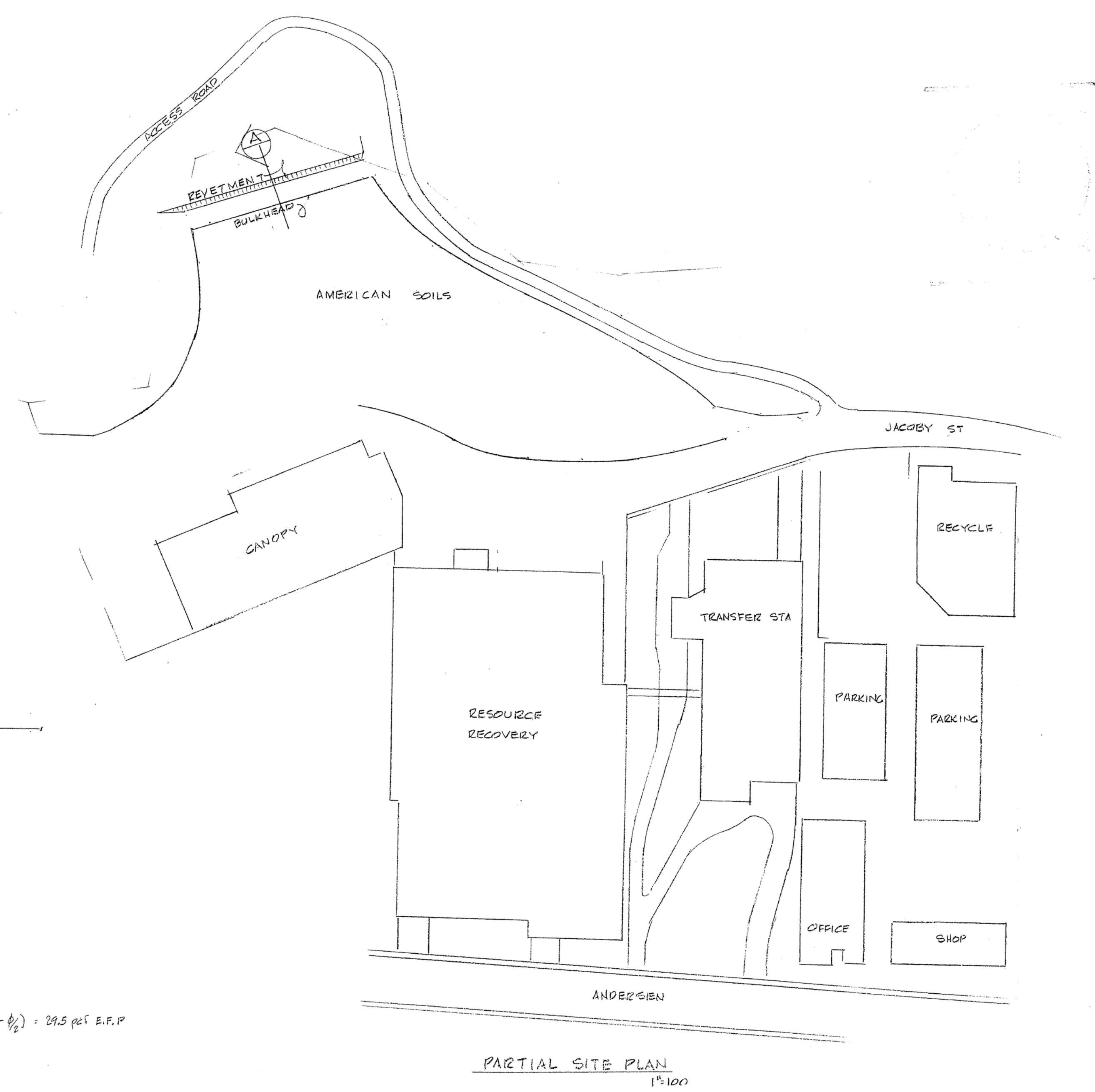
Y PHOTO  
FILLED GABIONS



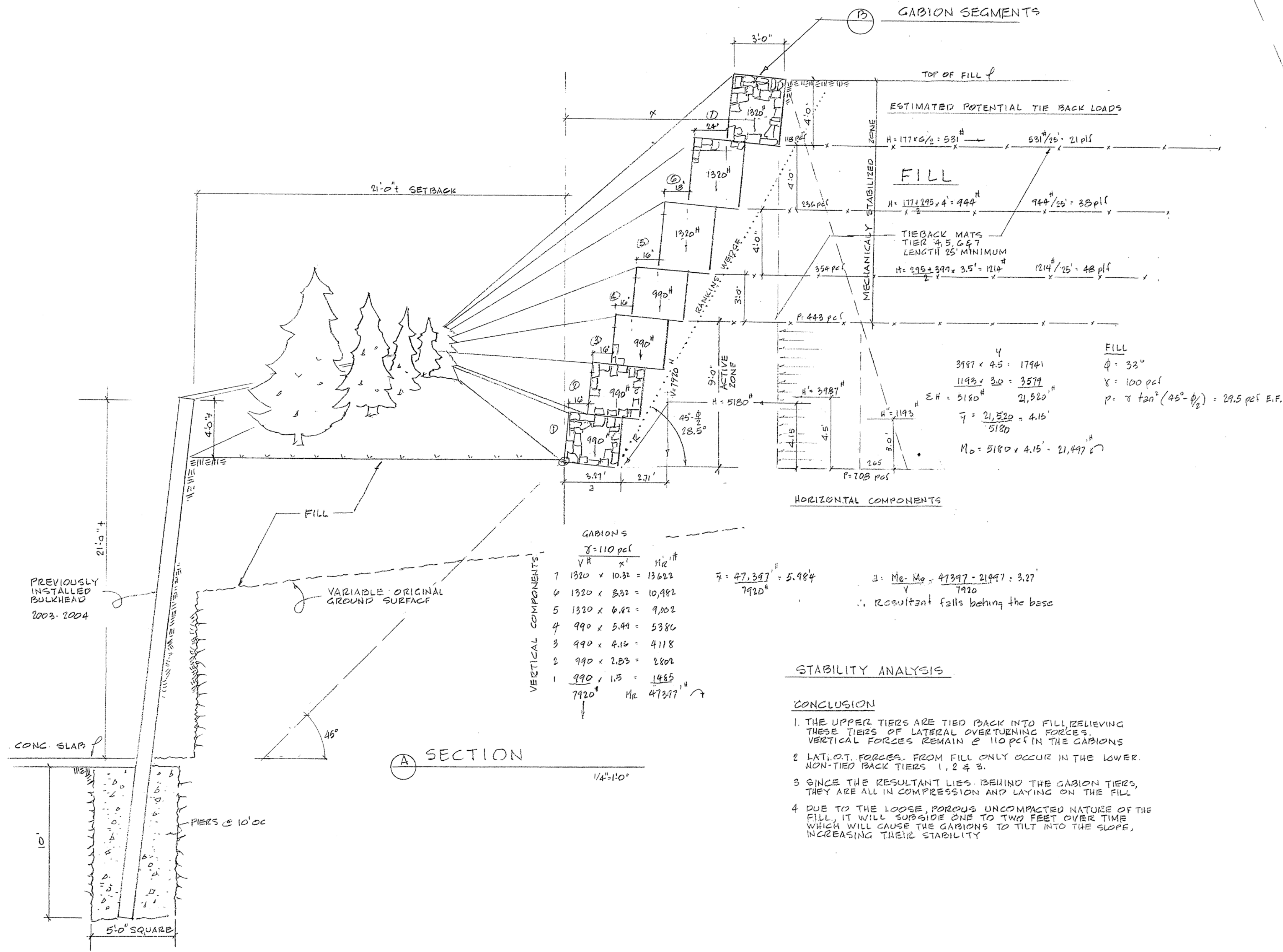
Z PHOTO  
UNFILLED GABIONS



D GABION SEGMENTS



PARTIAL SITE PLAN  
1"=100'



**STABILITY ANALYSIS**

**CONCLUSION**

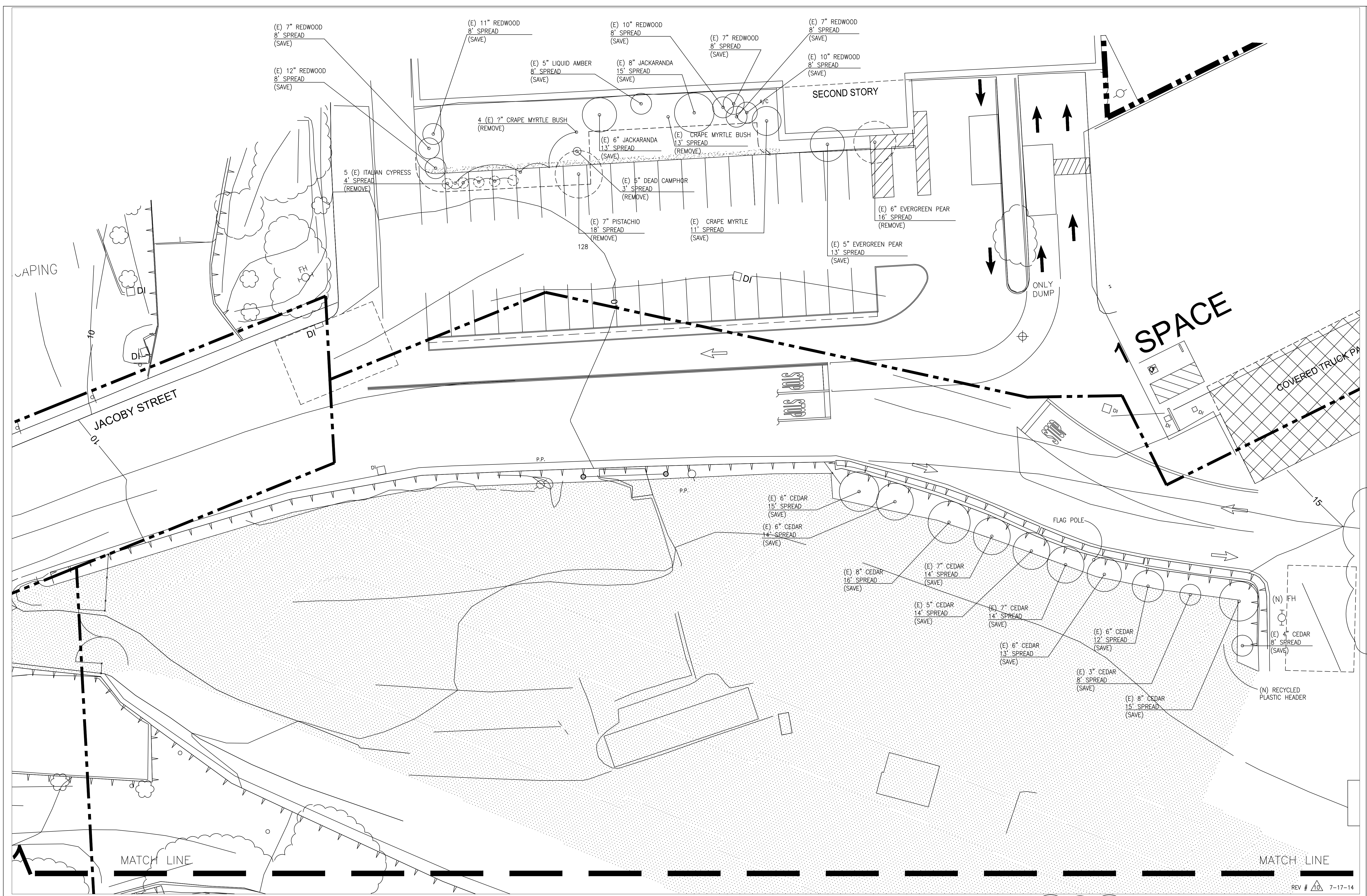
1. THE UPPER TIERS ARE TIED BACK INTO FILL RELIEVING THESE TIERS OF LATERAL OVERTURNING FORCES. VERTICAL FORCES REMAIN @ 110 PCF IN THE GABIONS
2. LAT. OT. FORCES FROM FILL ONLY OCCUR IN THE LOWER NON-TIED BACK TIERS 1, 2 & 3.
3. SINCE THE RESULTANT LIES BEHIND THE GABION TIERS, THEY ARE ALL IN COMPRESSION AND LAYING ON THE FILL
4. DUE TO THE LOOSE, POROUS UNCOMPACTED NATURE OF THE FILL IT WILL SUBSIDE ONE TO TWO FEET OVER TIME WHICH WILL CAUSE THE GABIONS TO TILT INTO THE SLOPE, INCREASING THEIR STABILITY

REVISIONS	BY

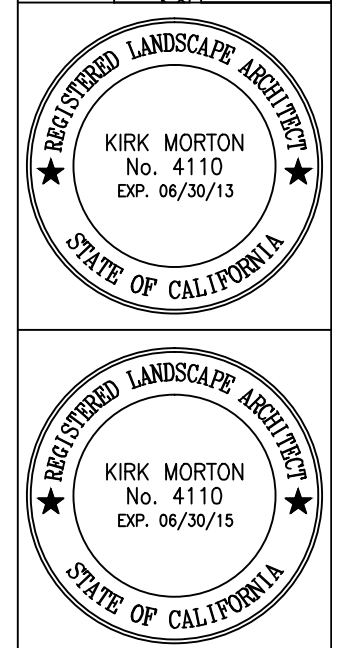
Richard C. Janson  
Civil Engineer  
11944 Taylor Street, San Francisco, CA 94108  
415.274.0266  
Dick Janson

MARIN SANITARY SERVICE  
REVETMENT  
"AS BUILT" & STABILITY ANALYSIS

Date	7/09/06
Scale	AS NOTED
Drawn	RCJ
Job	
Sheet	1 of 1



REVISIONS	BY

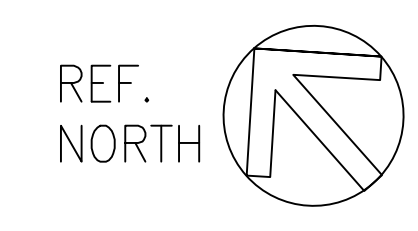
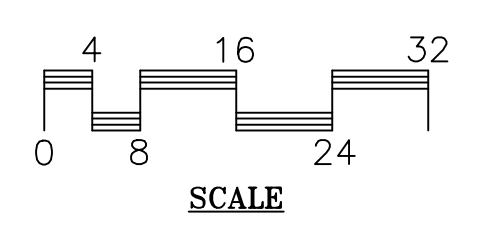


**(E) LANDSCAPE CONDITIONS**

**MARIN SANITARY SERVICE**  
 1050 ANDERSEN BLVD.  
 SAN RAFAEL, CA

Date: 8-1-11  
 Scale: 1/16" = 1'-0"  
 Drawn: KM  
 Job:  
 Sheet:  
**L-1A**  
 Of \_\_\_\_\_ Sheets

**(E) LANDSCAPE CONDITIONS**  
 SCALE: 1/16" = 1'-0"



MATCH LINE

MATCH LINE

REV # 10 7-17-14