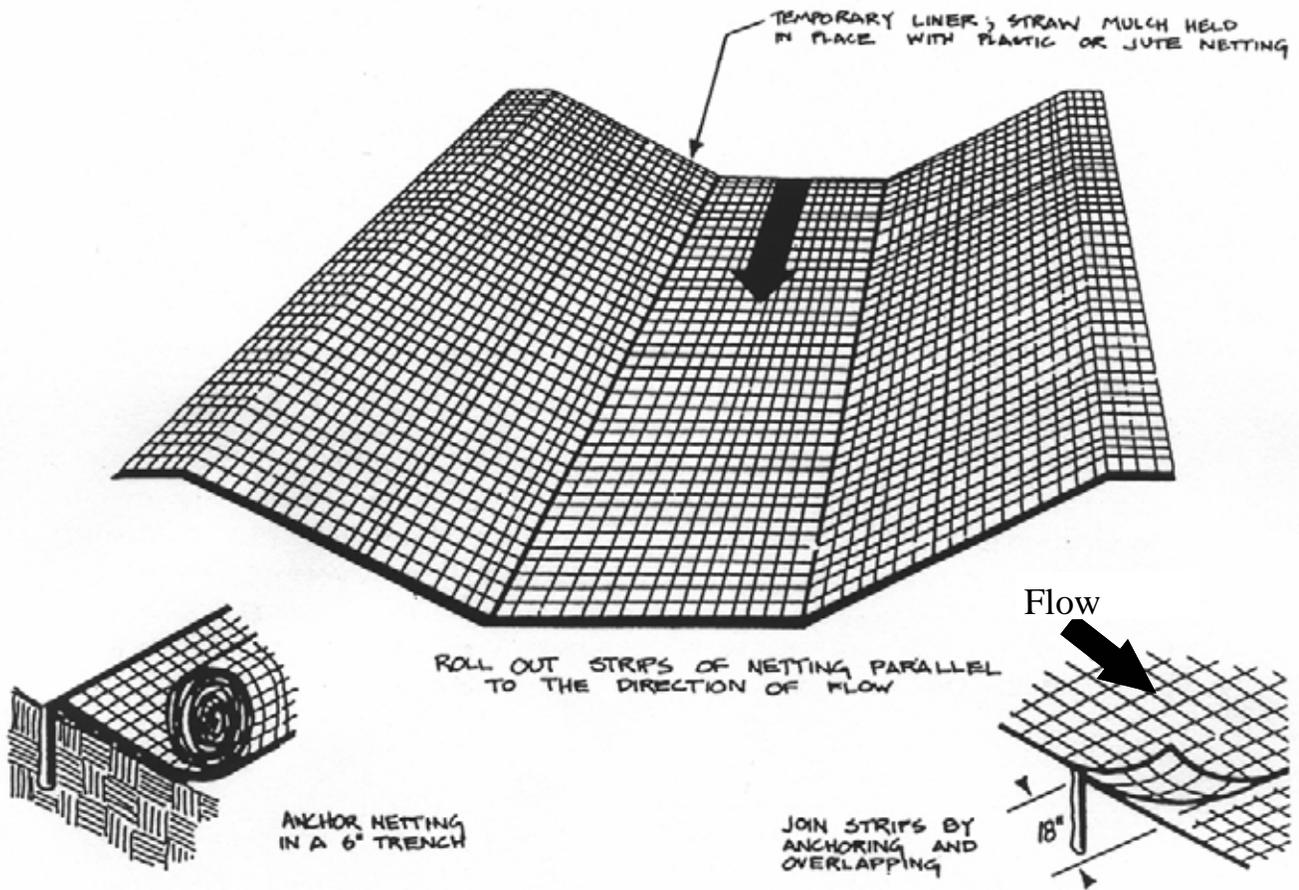
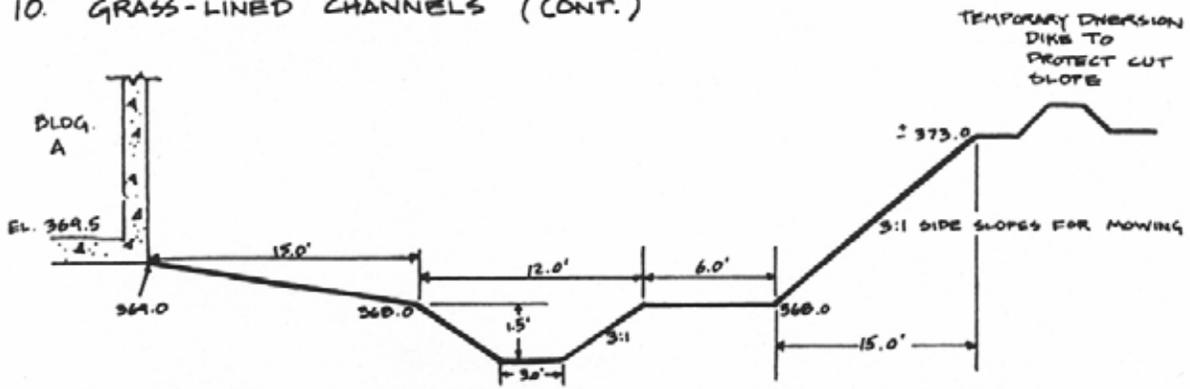


# 10. GRASS-LINED CHANNELS

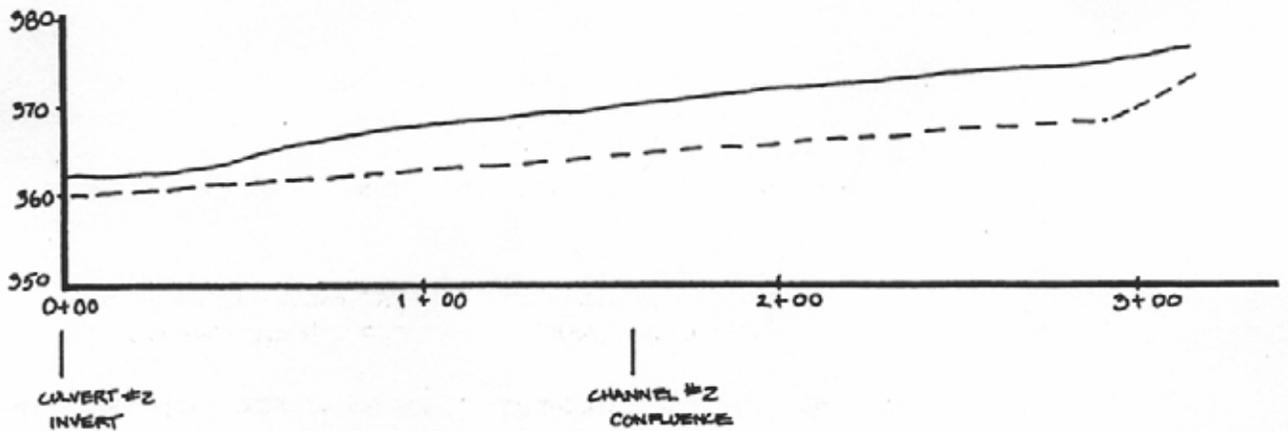


# 10. GRASS-LINED CHANNELS (CONT.)



TYPICAL CROSS SECTION;

ALL CHANNELS (DEPTH AND TOP WIDTH WILL VARY BASED ON GROUND ELEVATION)



PROFILE - CHANNEL #1

CHANNEL #1

GRADE : 2%  
 LENGTH : 360'  
 BEGINNING GRADE EL : 359.5  
 - AT OUTLET - INVERT OF CUVERT #2

CHANNEL #2

GRADE : 1.75%  
 LENGTH : 230'  
 BEGINNING GRADE EL : 362.7  
 - AT INTERSECTION W/ CHANNEL #1

CHANNEL #3

GRADE : 1%  
 LENGTH : 150'  
 BEGINNING GRADE ELEVATION : 362.0  
 - CUVERT INVERT UNDER TERRI ROAD

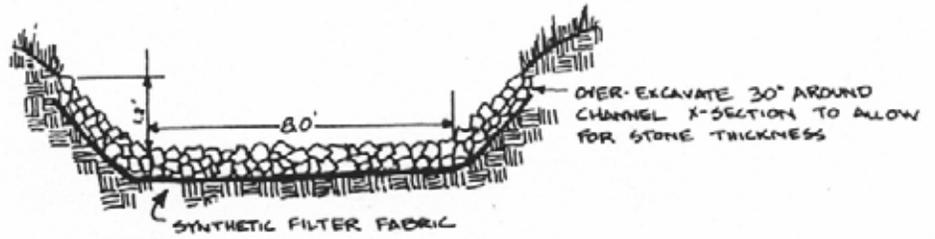
CHANNEL #4

GRADE : 1.17%  
 LENGTH : 160'  
 BEGINNING GRADE EL : 364.8  
 - AT OUTLET - EXISTING STAKE CHANNEL BOTTOM

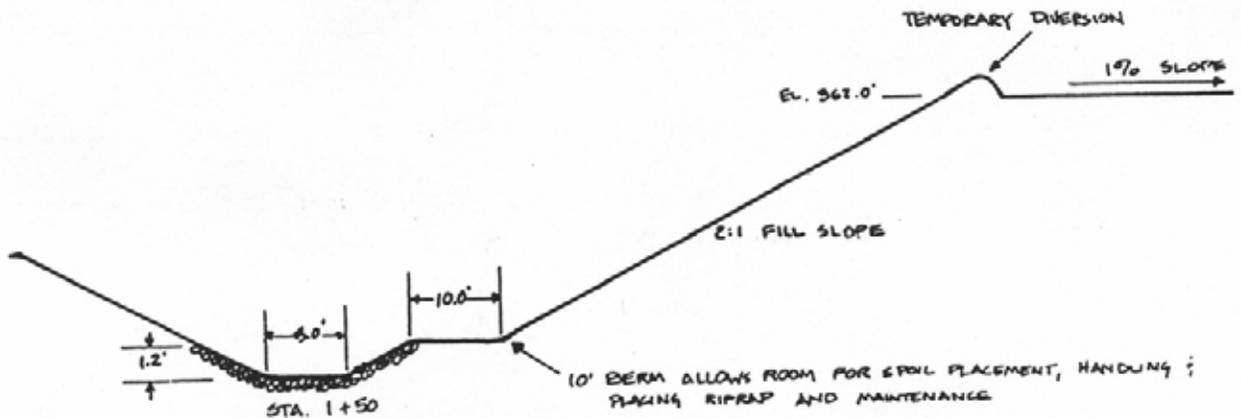
## (10.) CONSTRUCTION SPECIFICATIONS

1. EXCAVATE THE CHANNEL AND SHAPE IT TO AN EVEN CROSS-SECTION AS SHOWN. WHEN STAKING INDICATE A 0.2' OVERCUT AROUND THE CHANNEL PERIMETER FOR SILTING AND BULKING.
2. GRADE SOIL AWAY FROM CHANNEL SO THAT SURFACE WATER MAY ENTER FREELY.
3. APPLY LIME, FERTILIZER AND SEED TO THE CHANNEL AND ADJOINING AREAS IN ACCORDANCE WITH THE VEGETATION PLAN.
4. SPREAD STRAW MULCH AT THE RATE OF 100 LB/1000 FT<sup>2</sup>.
5. HOLD MULCH IN PLACE IMMEDIATELY AFTER SPREADING WITH A PLASTIC NETTING INSTALLED AS SHOWN.
6. START LAYING THE NET FROM THE TOP OF THE UPSTREAM END OF THE CHANNEL AND UNROLL IT DOWN GRADE. DO NOT STRETCH NETTING.
7. BURY THE UPSLOPE END AND STAPLE THE NET EVERY 12" ACROSS THE TOP END, EVERY 3 FT. AROUND THE EDGES AND ACROSS THE NET SO THAT THE STRAW IS HELD CLOSELY AGAINST THE SOIL. HOWEVER, DO NOT STRETCH THE NETTING WHEN STAPLING.
8. NETTING STRIPS SHOULD BE JOINED TOGETHER ALONG THE SIDES WITH A 3" OVERLAP AND STAPLED TOGETHER.
9. TO JOIN ENDS OF STRIPS, INSERT THE NEW ROLL OF NET IN A TRENCH AS WITH UPSLOPE END AND OVERLAP IT 18" WITH THE PREVIOUSLY LAID UPPER ROLL. TURN UNDER 6" OF THE 18" OVERLAP AND STAPLE EVERY 12" ACROSS THE END.

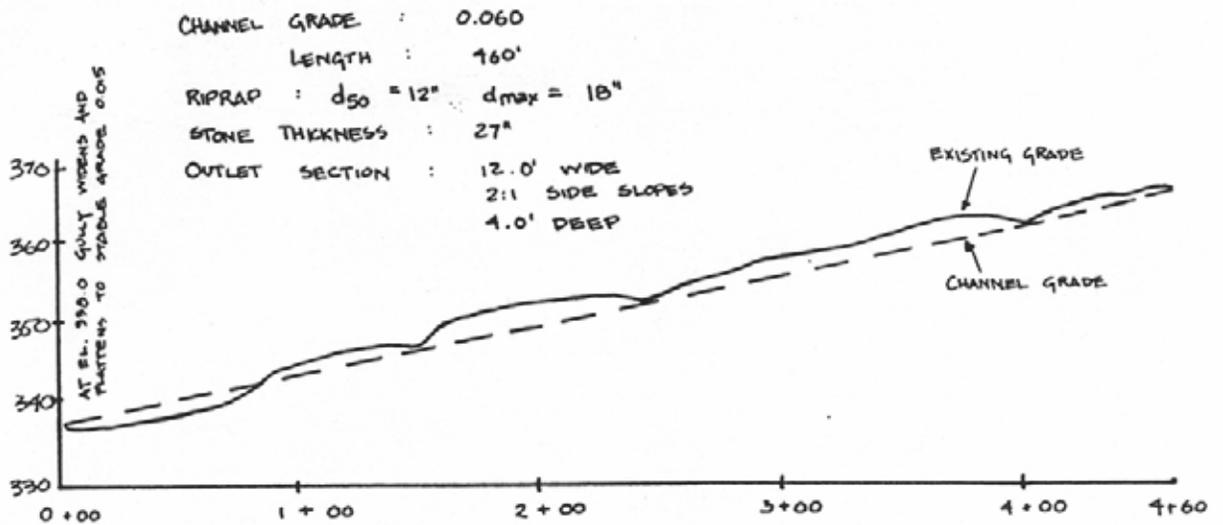
## II. RIPRAP CHANNEL



TYPICAL CROSS SECTION



TYPICAL CROSS SECTION

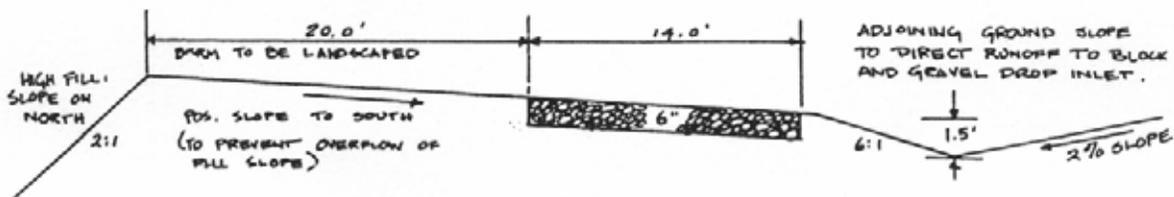


CHANNEL PROFILE

## (11.) CONSTRUCTION SPECIFICATIONS

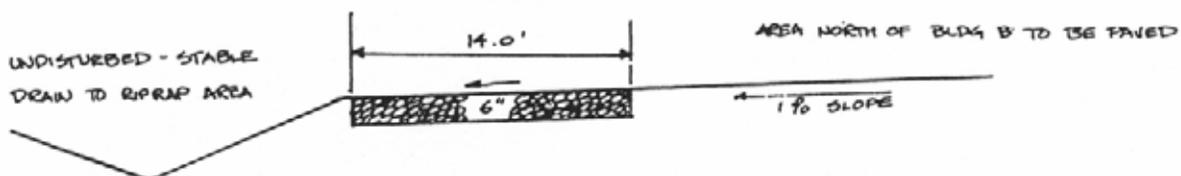
1. CLEAR THE FOUNDATION OF ALL TREES, STUMPS, AND ROOTS.
2. EXCAVATE THE BOTTOM AND SIDES OF THE CHANNEL 30" BELOW GRADE AT ALL POINTS TO ALLOW FOR THE PLACEMENT OF RIPRAP AS SHOWN IN THE TYPICAL X-SECTION.
3. INSTALL EXTRA STRENGTH FILTER FABRIC ON THE BOTTOM AND SIDES OF THE CHANNEL FOUNDATION, PLACING THE UPSTREAM FABRIC OVER THE DOWNSTREAM FABRIC WITH AT LEAST A 1.0' OVERLAP ON ALL JOINTS. THE FABRIC IS TO BE SECURELY HELD IN PLACE WITH METAL PINS.
4. PLACE RIPRAP EVENLY TO THE LINES AND GRADES SHOWN ON THE DRAWINGS AND STAKED IN THE FIELD. RIPRAP TO BE PLACED IMMEDIATELY FOLLOWING THE INSTALLATION OF THE FILTER FABRIC.
5. RIPRAP TO MEET SPECIFICATION FOR D.O.T. CLASS 2 RIPRAP.
6. VEGETATE ALL DISTURBED AREAS FOLLOWING SPECIFICATIONS SHOWN IN THE VEGETATIVE PLAN.

## 12. CONSTRUCTION ROAD STABILIZATION



TYPICAL X-SECTION ENTRANCE ROAD

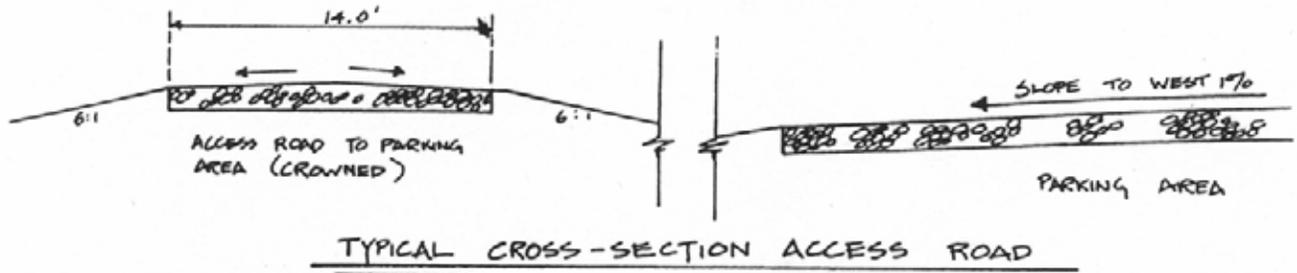
(TERRI RD. EAST TO CHANNEL #1)



TYPICAL X-SECTION ENTRANCE ROAD

(FROM CHANNEL #1 EAST TO EAST END OF BLDG. B)

## 12. CONST. RD. STABILIZATION (CONT.)



### (12.) CONSTRUCTION SPECIFICATIONS

1. CLEAR ROAD BED AND PARKING AREAS OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
2. PROVIDE SURFACE DRAINAGE AS SHOWN.
3. SPREAD 6" COURSE OF R.O.T. "ABC" CRUSHED STONE EVENLY OVER THE FULL WIDTH OF ROAD AND PARKING AREA AND SMOOTH TO AVOID DEPRESSIONS.
4. VEGETATE ALL DISTURBED AREAS ADJACENT TO ROADS AND PARKING AS SOON AS GRADING IS COMPLETE IN ACCORDANCE WITH THE VEGETATION PLAN.

### 13. OUTLET STABILIZATION STRUCTURES

#### OUTLET PROTECTION FOR CULVERT #1

(FOR RIPRAP PROTECTION USE CLASS A OR CLASS B EROSION CONTROL STONE)

