ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

HWY. 1 - WEST
(DRAINAGE IMPVTS.) (S)
CROSS COUNTY
ROUTE 350 SECTION 1

JOB 110666
FED. AID PROJ. STPR-0019(45)

NOT TO SCALE

BEGIN JOB 110666
STA. 229+88.00
END JOB 110666

STA. 200+00.00
BEGIN JOB 110666

LATITUDE N 34°38'40"
N 34°38'43"
N 34°38'52"

LONGITUDE W 92°25'44"
W 92°25'44"
W 92°25'31"

GROSS LENGTH OF PROJECT
000.000
DISTRICT 6

NOT TO SCALE

NO LENGTH INVOLVED
CROSS LENGTH OF PROJECT
000.000
DISTRICT 6
NET - BRIDGES
0.00
0.00
NET - PROJECT
0.00
0.00

P.E. 110666

DEPUTY DIRECTOR
AND CHIEF ENGINEER

APPROVED

4-23-19
INDEX OF SHEETS

SHEET NO. | TITLE
---|---
1 | TITLE SHEET
2 | INDEX OF SHEETS, STANDARD DRAWINGS, GENERAL NOTES, AND GOVERNING SPECIFICATIONS
3 | SPECIAL DETAILS
4 | TEMPORARY EROSION CONTROL DETAILS
7 | MAINTENANCE OF TRAFFIC DETAILS
10 | QUANTITIES
12 | SUMMARY OF QUANTITIES AND REVISIONS
16 | SURVEY CONTROL DETAILS
19 | PLAN AND PROFILE SHEETS
26 | CROSS SECTIONS

NOTE: CROSS SECTIONS NOT NORMALLY INCLUDED IN PLANS SOLD TO PROSPECTIVE BIDDERS, BUT MAY BE HAD UPON REQUEST.

ROADWAY STANDARD DRAWINGS

DRAWING NO. | TITLE | DATE
---|---|---
PCG-1 | CONCRETE PIPE CULVERT FILL HEIGHTS & BIDDEING | 02-27-14
TEC-1 | TEMPORARY EROSION CONTROL DEVICES | 06-02-94
TEC-2 | TEMPORARY EROSION CONTROL DEVICES | 11-03-94

GENERAL NOTES

1. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
2. ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
3. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER | TITLE
---|---
ERRATA | ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273 | REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273 | SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273 | SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (29 U.S.C. 140)
FHWA-1273 | SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273 | SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273 | SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273 | SUPPLEMENT - WAGE RATE DETERMINATION
100-2 | CONTRACTORS LICENSE
106-1 | DEPARTMENT NAME CHANGE
106-2 | ISSUANCE OF PROPOSALS
108-1 | LIQUIDATED DAMAGES
108-2 | WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1 | PROTECTION OF WATER QUALITY AND WETLANDS
303-1 | AGGREGATE BASE COURSE
306-1 | QUALITY CONTROL AND ACCEPTANCE
604-1 | RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
620-1 | MULCH COVER
110665 | BIDDING REQUIREMENTS AND CONDITIONS
110666 | BIDDING REQUIREMENTS AND CONDITIONS
110667 | MANDATORY ELECTRONIC CONTRACT
110668 | MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
110669 | SOIL STABILIZATION
110670 | STORM WATER POLLUTION PREVENTION PLAN
110671 | UTILITY ADJUSTMENTS
110672 | WELLSHEAD PROTECTION

INDEX OF SHEETS, STANDARD DRAWINGS, GENERAL NOTES, AND GOVERNING SPECIFICATIONS.
DETAIL FOR DRIVEWAY TURNOUTS (COLLECTORS)

AGGREGATE BASE COURSE (CLASS 7): 9" COMP. DEPTH OR CONFORM TO EXISTING DRIVEWAY.

WIDTH VARIES 12" TO NORMAL.

FLAT BOTTOM DITCH
WIDTH RANGES TO 26' FOR THE CULVERTS, AND THE 26' WIDTH SHALL BE MAINTAINED BETWEEN THE CULVERTS AT STA. 202+00 AND STA. 203+91.
SEQUENCE OF CONSTRUCTION
INSTALL QUAD 60° PIPE CULVERTS AND DRIVEWAYS,
CONSTRUCT FARM ACCESS RAMPS,
CONSTRUCT 12' FLAT BOTTOM DITCH.

NOTE: TURNOUTS AND PRIVATE DRIVES
SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.
NOTE: TURNOUTS AND PRIVATE DRIVES SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AND WHERE DIRECTED BY THE ENGINEER.
NOTE: TURNOUTS AND PRIVATE DRIVES SHALL BE MODIFIED WHERE NEEDED TO MEET LOCAL CONDITIONS IF AND WHERE DIRECTED BY THE ENGINEER.

CULTIVATED FIELD

STA. 229+88.00
END JOB II0666

MAINTENANCE OF TRAFFIC DETAILS
## Advance Warning Signs and Devices

<table>
<thead>
<tr>
<th>Sign Number</th>
<th>Description</th>
<th>Sign Size:</th>
<th>Stage 1</th>
<th>Maximum Number Required</th>
<th>Total Signs Required</th>
<th>Traffic Drums</th>
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<tr>
<td>G20-1</td>
<td>Road Work Ahead</td>
<td>48&quot; x 48&quot;</td>
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<td>G20-2</td>
<td>End Road Work</td>
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<td>48</td>
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<tr>
<td>TRAFFIC DRUMS</td>
<td></td>
<td></td>
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<td><strong>TOTALS:</strong></td>
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<td></td>
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<td><strong>72</strong></td>
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## Clearing and Grubbing

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<th>Description</th>
<th>Clearing</th>
<th>Grubbing</th>
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<tbody>
<tr>
<td>200+00</td>
<td>12' Flat Bottom Ditch</td>
<td>1</td>
<td>1</td>
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<tr>
<td>204+00</td>
<td>12' Flat Bottom Ditch</td>
<td>4</td>
<td>4</td>
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<tr>
<td>207+00</td>
<td>12' Flat Bottom Ditch</td>
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<td>208+00</td>
<td>12' Flat Bottom Ditch</td>
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<td><strong>TOTALS</strong></td>
<td></td>
<td><strong>5</strong></td>
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## Removal and Disposal of Culverts

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<th>Station</th>
<th>Description</th>
<th>Pipe Culverts</th>
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</thead>
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<tr>
<td>203+01</td>
<td>36&quot; x 48&quot; Metal Pipe Culvert</td>
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<tr>
<td>219+01</td>
<td>60&quot; x 60&quot; O.C. Pipe Culverts</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td></td>
<td><strong>3</strong></td>
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## Erosion Control

### Permanent Erosion Control

<table>
<thead>
<tr>
<th>Station</th>
<th>Description</th>
<th>Seeding</th>
<th>Mulch Cover</th>
<th>Water</th>
<th>Second Seeding Application</th>
<th>Temporary Seeding</th>
<th>Mulch Cover</th>
<th>Water</th>
<th>Rock Ditch Checks</th>
<th>Silt Fence</th>
<th>Sediment Basin</th>
<th>Obliteration of Sediment Basin</th>
<th>*Sediment Removal &amp; Disposal</th>
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</thead>
<tbody>
<tr>
<td>ENTIRE PROJECT CLEARING AND GRUBBING</td>
<td></td>
<td>0.18</td>
<td>0.36</td>
<td>0.16</td>
<td>14.4</td>
<td>0.19</td>
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<td>3.7</td>
<td>36.0</td>
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<td>ENTIRE PROJECT 12' Flat Bottom Ditch</td>
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<td>2.78</td>
<td>5.36</td>
<td>2.75</td>
<td>283.6</td>
<td>2.76</td>
<td>2.79</td>
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<td>18</td>
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<td>ENTIRE PROJECT Farm Access Driveway</td>
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<td>0.20</td>
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<td>25.3</td>
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<td>36</td>
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<td>4400</td>
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<td>ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER</td>
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<td>2.00</td>
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<td>204.0</td>
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<td>49.8</td>
<td>30</td>
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<td>300</td>
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<td><strong>TOTALS</strong></td>
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<td>5.21</td>
<td>10.42</td>
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<td>144</td>
<td>310</td>
<td>463</td>
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### Temporary Erosion Control

| Basis of Estimate: | 2 TONS / ACRE OF SEEDING |
| Water:              | 102.0 M.G. / ACRE OF SEEDING |
| Water, 20.4 M.G. / ACRE OF TEMPORARY SEEDING | 20.4 M.G. / ACRE OF TEMPORARY SEEDING |
| Rock Ditch Checks:  | 4 CU.YD./LOCATION |

**Note:** The temporary erosion control devices shown above and on the plans shall be installed in such a sequence as to deter erosion and sedimentation on U.S. Waterways as explained by the National Pollutant Discharge Elimination System Permit.

*Quantities estimated.

See section 104.03 of the Std. Specs.
### STRUCTURES

<table>
<thead>
<tr>
<th>STATION</th>
<th>DESCRIPTION</th>
<th>RENFORCED CONCRETE PIPE (CLASS V)</th>
<th>STD. DWG. NOS.</th>
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<tbody>
<tr>
<td>203+91</td>
<td>QUAD 60° x 44 F. R.C. PIPE CULVERT</td>
<td>178</td>
<td>PCC-1</td>
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<tr>
<td>219+00</td>
<td>QUAD 65° x 44 R.C. PIPE CULVERT</td>
<td>176</td>
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TOTALS: 352

*NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.*

### SELECTED PIPE BEDDING

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<th>LOCATION</th>
<th>SELECTED PIPE BEDDING</th>
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<td></td>
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TOTAL: 60

*NOTE: QUANTITY ESTIMATED. SEE SECTION 104.03 OF THE STD. SPECS.*

### DRIVEWAYS & TURNOUTS

<table>
<thead>
<tr>
<th>STATION</th>
<th>STATION</th>
<th>LOCATION</th>
<th>WIDTH</th>
<th>AGGREGATE BASE COURSE (CLASS 7)</th>
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<tr>
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<td>FEET</td>
<td>TON</td>
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<td>DRIVEWAY</td>
<td>COUNTY ROAD</td>
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<td>0+00</td>
<td>FARM ACCESS ROAD</td>
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ENTIRE PROJECT TEMPORARY DRIVES: 102.00

TOTAL: 1466.27

*QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

### EARTHWORK

<table>
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<th>STATION</th>
<th>STATION</th>
<th>LOCATION / DESCRIPTION</th>
<th>UNCLASSIFIED EXCAVATION</th>
<th>COMPACTED EMBANKMENT</th>
<th>SOIL STABILIZATION</th>
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<td>1460.58</td>
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ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

TOTAL: 14672.28

*QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.
NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

### QUANTITIES

10/06/66

7/12/1986
### SUMMARY OF QUANTITIES

<table>
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<td>GRUBBING</td>
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<td>REMOVAL AND DISPOSAL OF PIPE CULVERTS</td>
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<td>ENCLOSING EXCAVATION</td>
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<td>SEEDING</td>
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<td>Mulch Cover</td>
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### REVISIONS

<table>
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<td>REPLACED THE UTILITY ADJUSTMENTS SPECIAL PROVISION WITH UPDATED VERSION</td>
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<tr>
<td>8000</td>
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</tr>
<tr>
<td>8023</td>
<td>POE</td>
<td>229 + 08.00</td>
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**Survey Control Details**
STA. 200+00
BEGIN JOB 10666

STA. 200+00 IN PLACE
B 14 x 12 CULVERT TO BE REPLACED BY THE RAILROAD WITH A BRIDGE STRUCTURE
GDS + 404.67 CFS; C.D. = 150 ACRES

STA. 203+00 IN PLACE
B 14 x 12 CULVERT TO BE REPLACED BY THE RAILROAD WITH A BRIDGE STRUCTURE
GDS + 404.67 CFS; C.D. = 150 ACRES

CONSTRUCT APPROACH = 295 CU. YDS.

12' FLAT BOTTOM DITCH
HIGHEST 300 CENTERLINE ALIGNMENT IS SHOWN FROM JOB NO. 03 AND IS USED FOR SETTING RIGHT OF WAY POINTS FROM STA. 230-00 FORWARD.

STA. 230-00 IN PLACE 6.5' ID 48" METAL PIPE CULVERT

HDR. 20' ID 48" RC PIPE CULVERT

CONSTRUCT APPROACH = 420 CFT YDS.

STA. 19+OA TO STA. 21+90 IN PLACE 6.5' ID 48" METAL PIPE CULVERT

HDR. 20' ID 48" RC PIPE CULVERT

CONSTRUCT APPROACH = 420 CFT YDS.

HIGHWAY 350 CULTIVATED FIELD

CHANNEL ALIGMENT

A = 814.07' 75' RT.
B = 815.07' 55' RT.
C = 815.16' 35' RT.
D = 815.61' 00' RT.
E = NO SUPER

CONSTRUCT APPROACH = 420 CFT YDS.

12' FLAT BOTTOM DITCH
CROSS SECTIONS

AREA CUT 76
AREA FILL 2

AREA CUT 64
AREA FILL 8

AREA CUT 83
AREA FILL 20

AREA CUT 215
AREA FILL 0

CUT VOLUME 275
FILL VOLUME 18

CUT VOLUME 272
FILL VOLUME 51

CUT VOLUME 553
FILL VOLUME 36

CROSS SECTION STA. 204.00 TO STA. 207.00
CROSS SECTION STA. 217+00 TO STA. 219+00
Typical application - DTVHE maintenance operations of short duration on a 2 lane divided roadway where half of the roadway is closed.

Key:
- A speed belt reduction may be implemented only when designated in the plan or when requested by the roadway design division.
- When the existing speed limit is 35mph and the zone requires a speed belt of 25mph, the B-200 standard speed belt shall be installed in the area. Additional B-200 standard speed belts shall be installed at each entrance to the zone, at the end of the zone area, and at the end of the speed belt.
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- Warning lights or flashing flags may be required to warn of channelizing devices or right of way.
- Pedestrian markings to control pedestrian activity and guide pedestrian movement in the area of vehicle operations may be required as directed by the Engineer.
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CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE
1. PLACE PERIMETER CONTROLS (e.g., SILT FENCES, DIVERSION DITCHES, SEDIMENT BASINS, etc.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION

EXISTING GROUND

INTERCEPT OR DIVERSION DITCH

EXISTING GROUND

GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESS, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE
1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING. SLOPES SHALL BE COVERED WITH SOIL OR OTHER COVERING MATERIALS AS REQUIRED. SEDIMENT BASINS OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT

DIVERSION DITCH TO BE IN PLACE UNTIL SLOPE IS COMPLETELY STABILIZED.

SIDE DITCH STABILIZE AS REQUIRED.

EXISTING GROUND

VARIOUS EROSION CONTROL DEVICES

GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 30 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 30 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.