

TRUCKEE RIVER WATERSHED COUNCIL

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BOCA MEADOWS RESTORATION REQUEST FOR BIDS 2021 AMENDMENT 2

This amendment serves to provide additional details on the construction schedule, bid format, and construction activities.

Construction Schedule

All work will take place in 2021. Construction is estimated to begin August 2, 2021. There is some flexibility in scheduling.

Work schedule shall be coordinated with USFS personnel, either 5 days/week 8 hours/day or 4 days/week 10 hours/day. However, Forest Service Project Activity Levels (PALs) will be followed, which may affect daily schedules.

It is anticipated that the entire project may take up to three weeks.

On-site camping. Camping is allowed pursuant to current USFS Tahoe National Forest Guidelines.

Bid Format

Bids should be prepared as a time and materials estimate. Please provide detail on work approach, sequencing, and length of time estimated to complete work at each site.

This project is not subject to prevailing wage.

Construction Details

East Arm Boca

Road decommissioning: 4.7 miles of road will be decommissioned. Some decommissioning will be done by hand or with small equipment, as indicated on the updated site map.

Road re-route. 600 feet of new road will be constructed around the "mud hole" area. The new road will comply with Forest Service specifications (attached). The new segment will include four drivable dips or water bars. Location of the dips or bars will be flagged in the field during construction after the road prism is roughed in. A few larger trees will be removed during the road re-route. These will be used to help block the decommissioned road adjacent to the re-route.

Trees. Some trees (estimated 8 – 10) will be imported from the Stampede Meadow site to be used to block off road access. The trees may be cut or pushed over, and limbed, limbs can be

used on-site at Stampede Meadow for mulch. Stumps will also be imported to East Arm to be used in the road closures.

Material import. Approximately 750 cubic yards of material generated from Stampede Meadow will be imported to the "mud hole" area. Approximately 300 cubic yards will be imported from Stampede Meadow to rebuild the fan area.

Gate installation location is approximate as shown on the map, final location will be marked in the field. No other gates are included in this contract.

Trash Removal. Removing trash from the project site is added to the Scope – this includes existing trash on-site not related to construction.

Shooting range. The shooting range will be closed during construction activities that are adjacent to the range. This will require coordination with the Forest Service, so the Contractor will provide an accurate schedule to minimize the length of time the range is closed.

Materials. Seeds will be provided by TRWC.

Stampede Meadow

Gate. Gate installation is removed from the Scope of Work for Stampede.

Tree removal. Several trees are located on a segment of railroad grade to be removed (anticipated 8 – 10). These trees will be transported to East Arm and used to block off decommissioned roads. The trees can be cut or pushed over, however the stumps will also be removed. The trees can be limbed with the limbs left on site to be used as mulch. Trees and stumps will be moved to East Arm.

Access routes. Access routes to the railroad grade will be de-compacted and mulched.

Off-haul. It is estimated that approximately 1,300 cubic yards of material (and up to 1,500 cubic yards) will be generated from the railroad grade removal and transported to East Arm and Sunrise. Approximately 255 cubic yards will be moved to Sunrise, the remainder will be moved to East Arm.

Sunrise Meadow

Work at Sunrise will take place in 2021. Work will consist of moving any excess fill generated at Stampede Meadow not needed at East Arm. Fill will be stockpiled in 1 – 2 areas identified by USFS personnel. The stockpile(s) will be stabilized for overwintering. Stabilization will include hydro-mulching the material and installing silt fence around the stockpile(s). Approximately 255 cubic yards will be moved to Sunrise.

The remaining work at Sunrise is removed from the Scope of Work.

Attachment 1. Revised East Arm Site Plan

Attachment 2. Forest Service road construction/reconstruction and drainage specifications

East Arm Boca Meadow Restoration 2021 Implementation

Boca Reservoir

Legend

- Proposed Gate
- Basin
- Mud Hole
- ◆ Haul
- ✕ Block
- Wheel track
- Fill
- Decompact
- Handwork
- Decomission
- Reroute
- Project_Location

Stream

- Ephemeral
- Intermittent
- Perennial
- Project Location

0.075 0.15 0.3 0.45 0.6 Miles



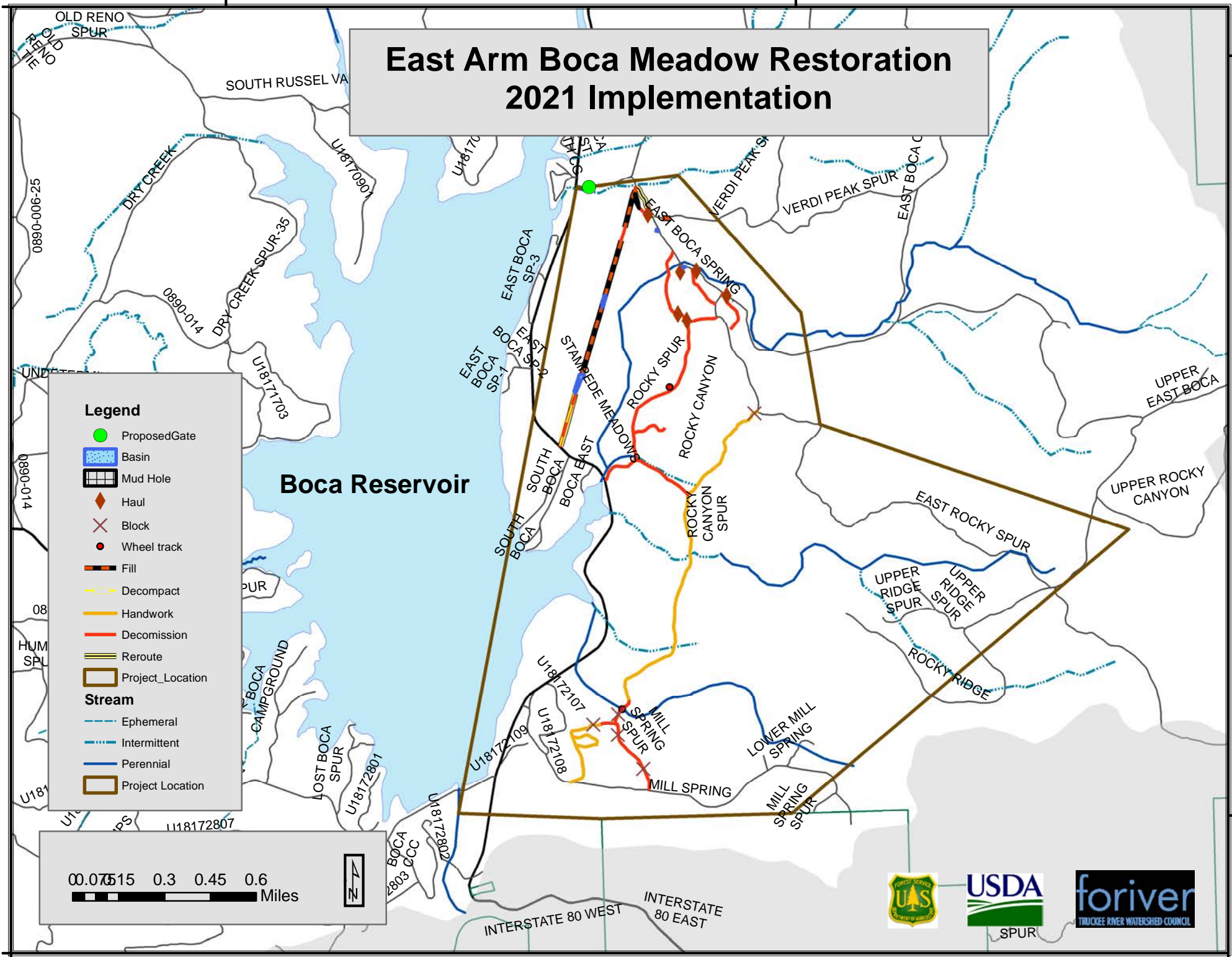
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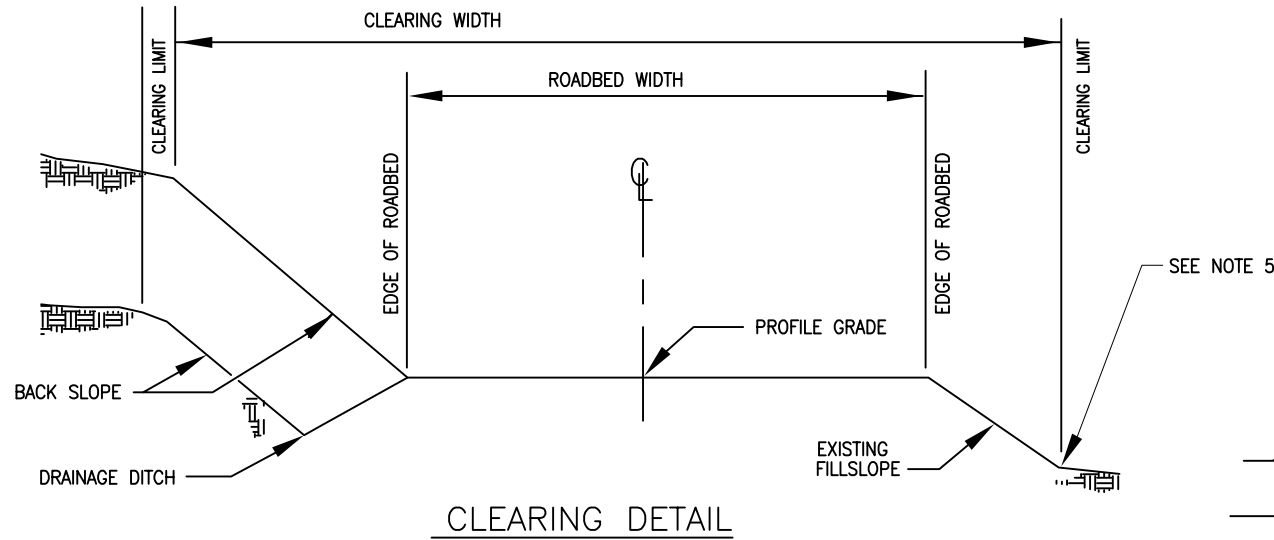
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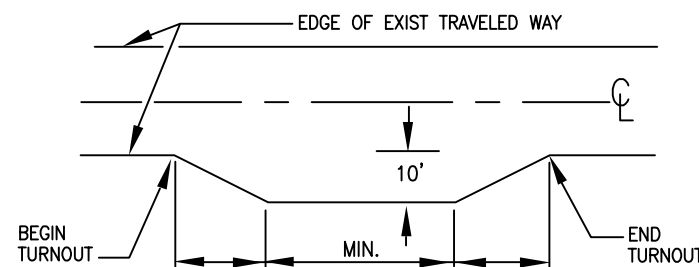


CONSTRUCTION SCHEDULE

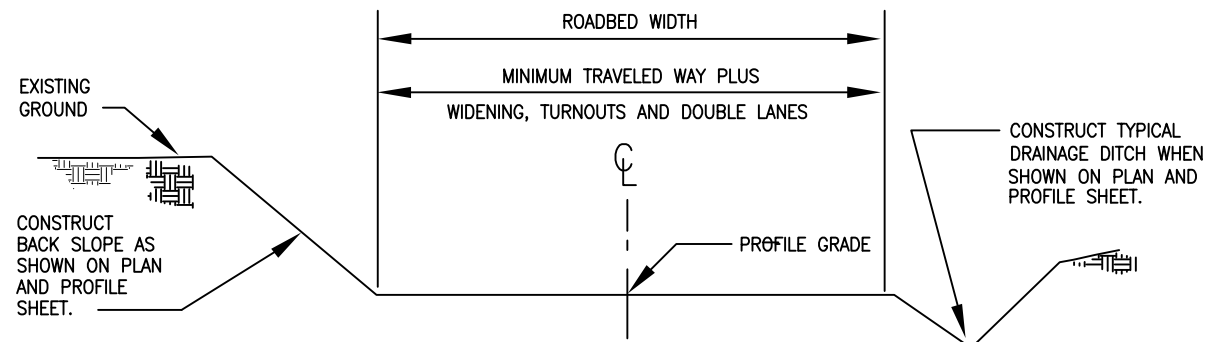
ROAD NUMBER	MINIMUM TRAVELED WAY WIDTH	CLEARING & GRUBBING FOR			EMBANKMENT PLACEMENT METHODS	TOLERANCE CLASS	SURFACING		
		TOPS & LIMBS	LOGS	STUMPS			STA. TO STA.	DEPTH	TYPE



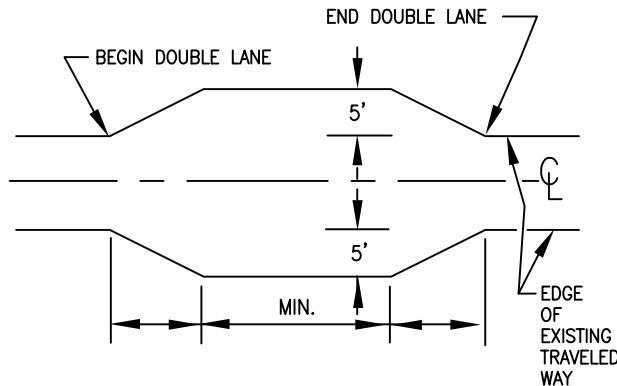
CLEARING DETAIL



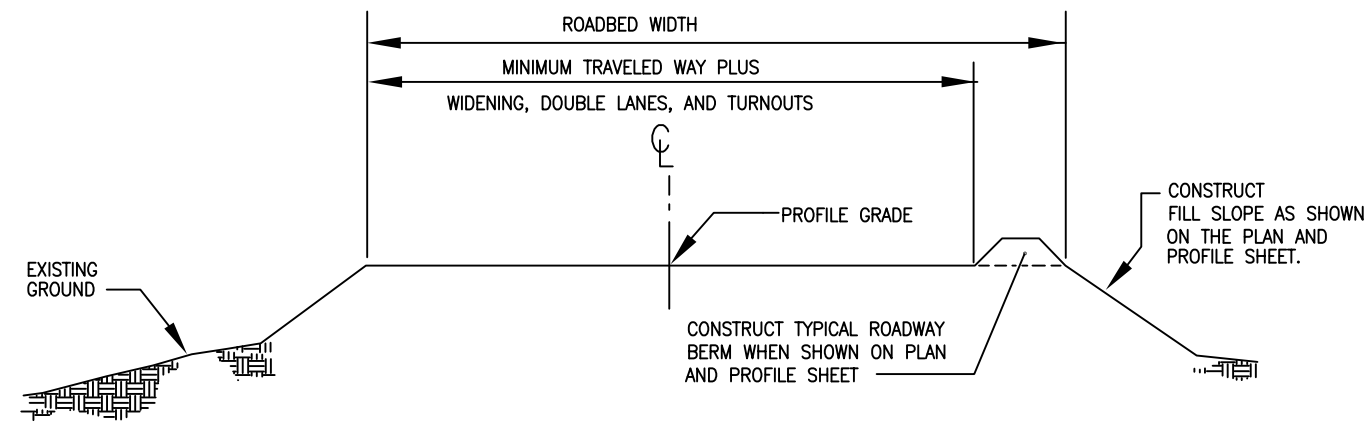
TURNOUT DETAIL



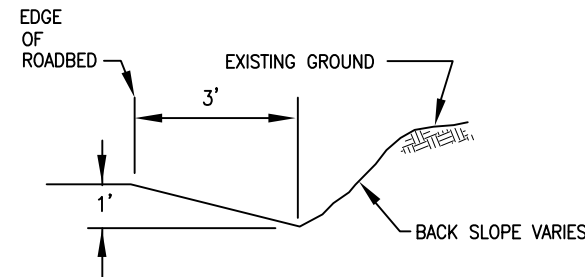
TYPICAL THRU CUT SECTION WITH DITCH



DOUBLE LANE DETAIL

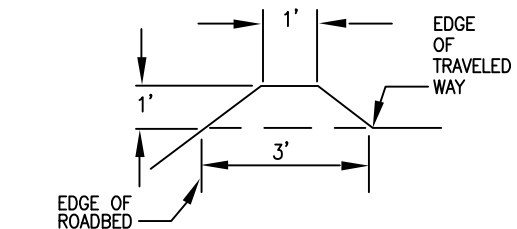


TYPICAL THRU FILL SECTION WITH BERM



TYPICAL DRAINAGE DITCH DETAIL

- NOTES:
- ROADSIDE PONDING**
AREAS WHERE ROADSIDE PONDING WAS CREATED BY CONSTRUCTION OPERATION SHALL BE BACK-FILLED TO PROVIDE DRAINAGE.
 - CROSS SLOPE**
ALL SECTIONS OF ROAD SHALL BE 4% OUTSLOPED UNLESS SPECIFIED OTHERWISE ON THE PLAN AND PROFILE SHEET.
 - SLASH TREATMENT AREAS**
CONSTRUCTION SLASH REMAINING AFTER BURNING SHALL BE SCATTERED WITHIN THE BURN SITE. SLASH TREATMENT AREAS ARE SHOWN ON THE NEW CONSTRUCTION DRAWINGS BY THE FOLLOWING SYMBOLS:
 - (B) BURNING SITE: SHALL BE USED FOR PILING AND BURNING ONLY.
 - (S) STUMP PILE: SHALL BE USED FOR PILING STUMPS ONLY.
 - (M) MERCHANTABLE DECK: SHALL BE USED FOR DECKING MERCHANTABLE TIMBER ONLY.
 - (U) UNMERCHANTABLE DECK: SHALL BE USED FOR DECKING UNMERCHANTABLE MATERIAL ONLY.
 - (D) DISPOSAL SITE: SHALL BE USED ONLY FOR PILING FOR FUTURE DISPOSAL.
 CLEARING LIMITS FOR SLASH TREATMENT AREAS SHALL BE FLAGGED BY THE FOREST SERVICE.
 - HAZARD TREES**
TREES ARE DESIGNATED FOR INDIVIDUAL REMOVAL WHEN MARKED WITH AN HR. TREES ARE DESIGNATED FOR INDIVIDUAL FELLING WHEN MARKED WITH AN HL.
 - CLEARING**
THE CLEARING LIMIT FOR BOTH CUTS AND FILLS IS A MINIMUM OF ____ BEYOND THE EDGE OF ROADBED.
THE FILLS ARE DESIGNED TO SPILL BEYOND THE CLEARING LIMIT UNLESS SHOWN OTHERWISE ON DRAWINGS. FILL DEPTH IS A MAXIMUM OF ____ AT THE CLEARING LIMIT.



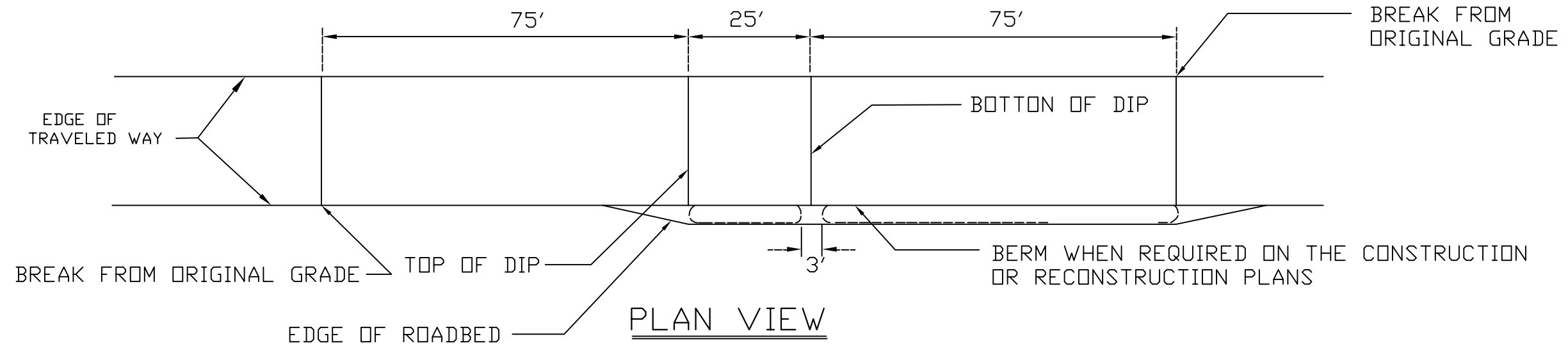
TYPICAL ROADWAY - BERM DETAIL

NEW CONSTRUCTION REQUIREMENTS

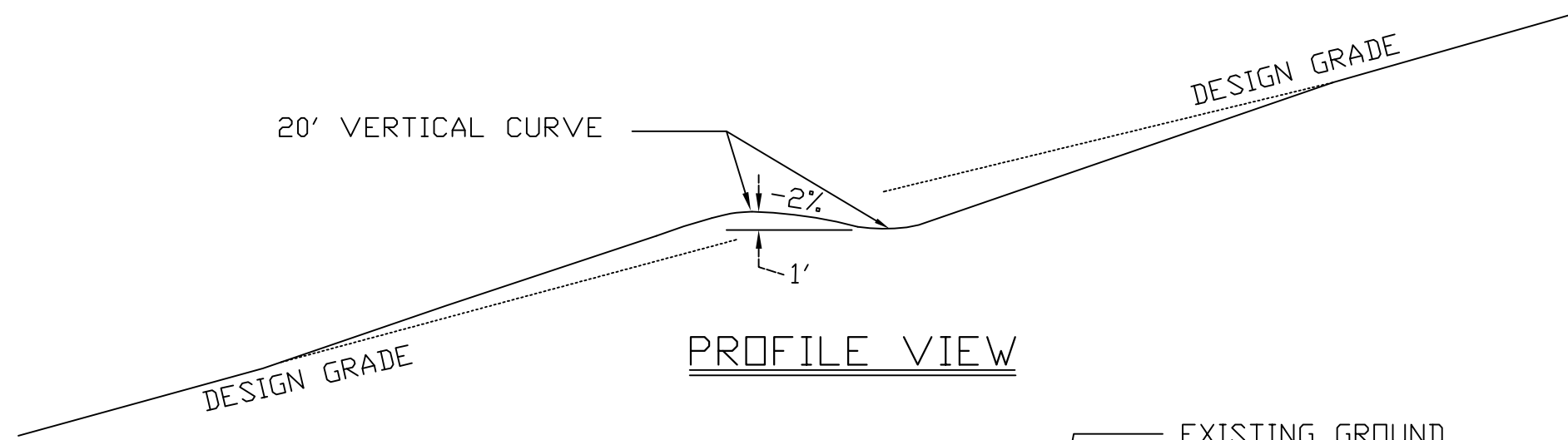
PROJECT NAME	SHEET NUMBER	OF SHEETS

ROLLING DIP DETAIL

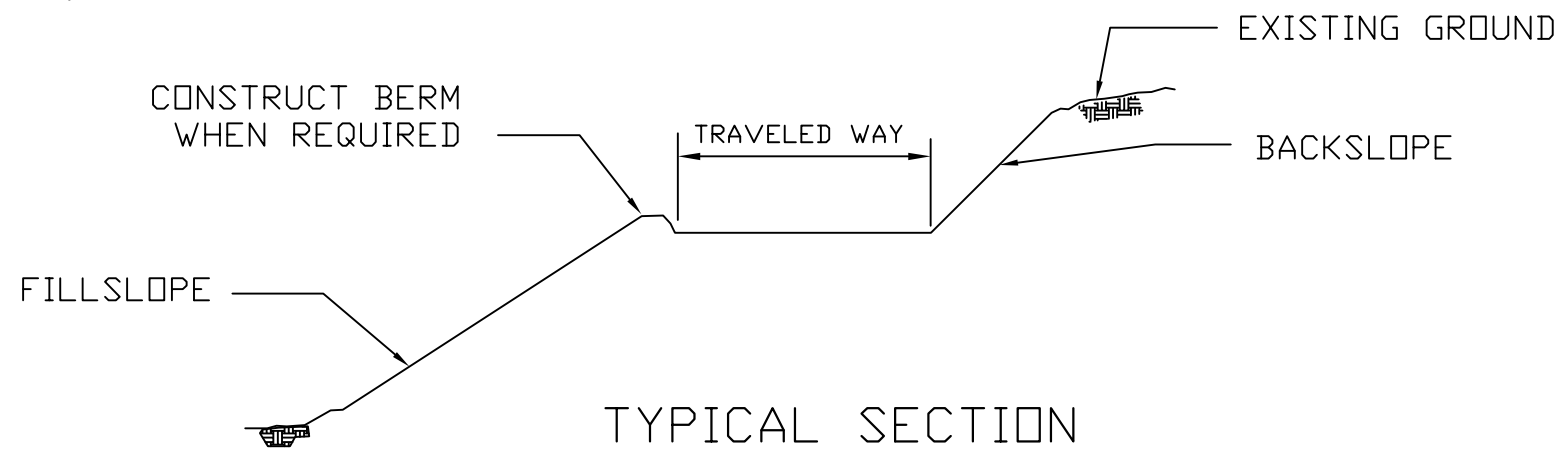
NO SCALE



PLAN VIEW



PROFILE VIEW

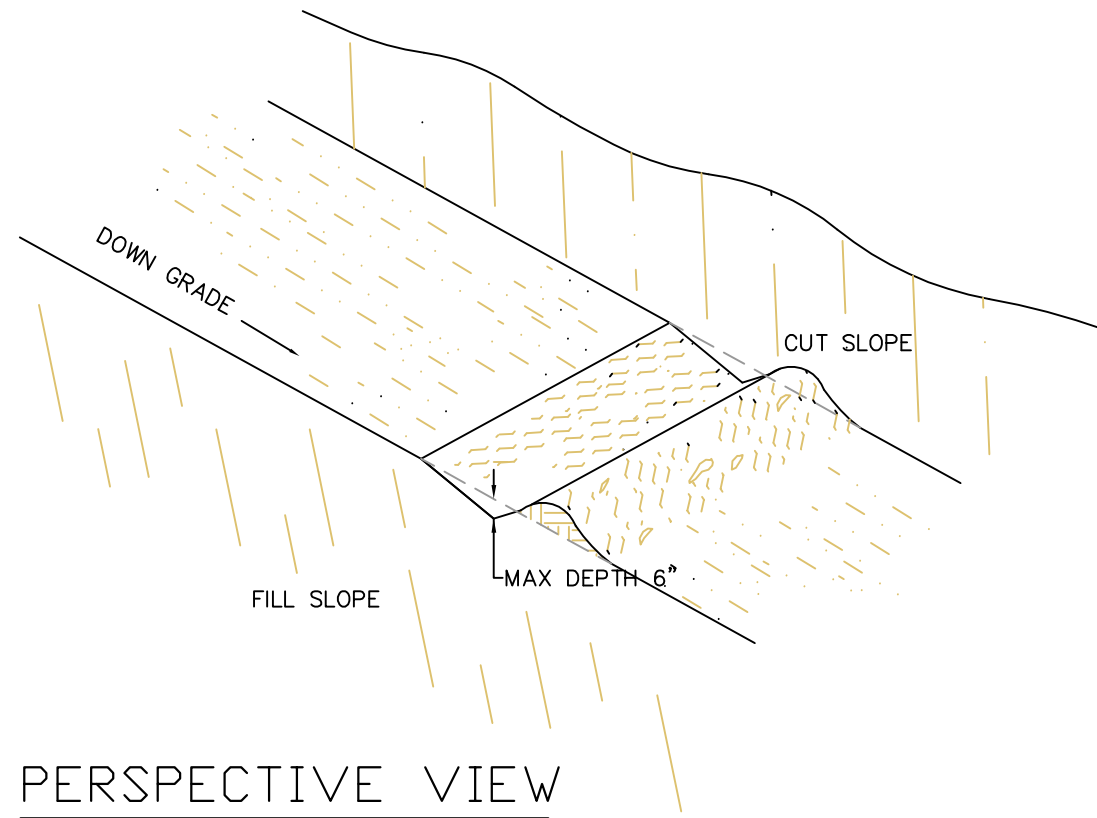


TYPICAL SECTION

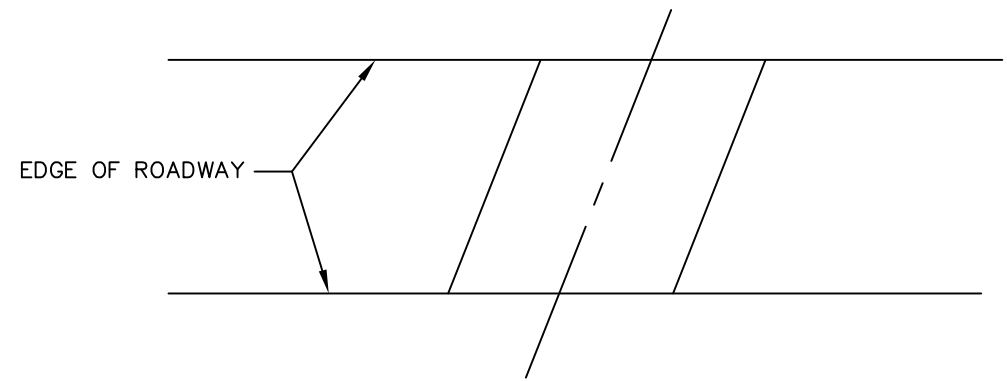
ROLLING DIP DETAIL		
PROJECT NAME	SHEET NUMBER	OF SHEETS
AMERICAN TIMBER SALE	7	10

WATER BAR DETAIL

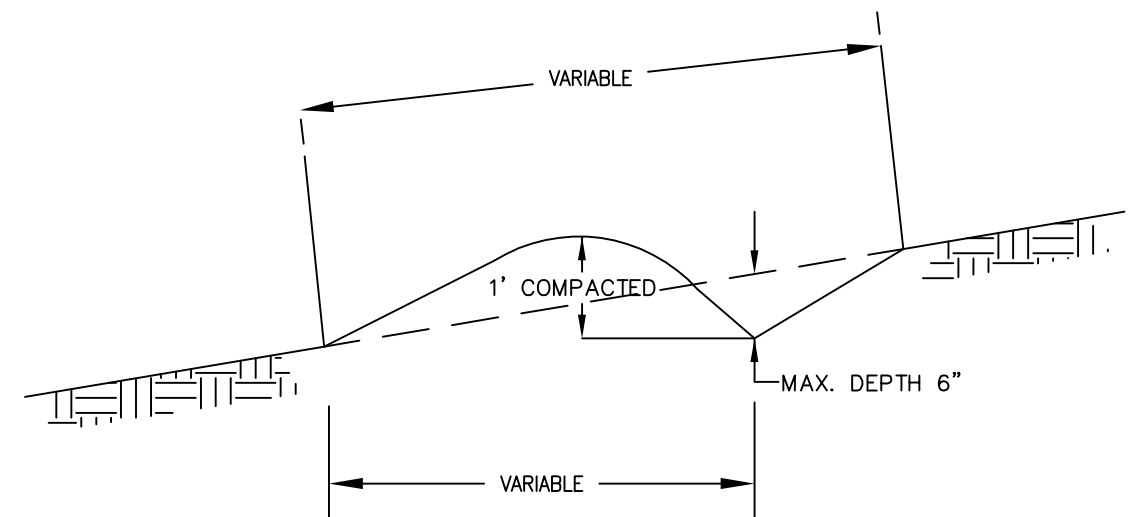
For Use on Open Roads
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PERSPECTIVE VIEW



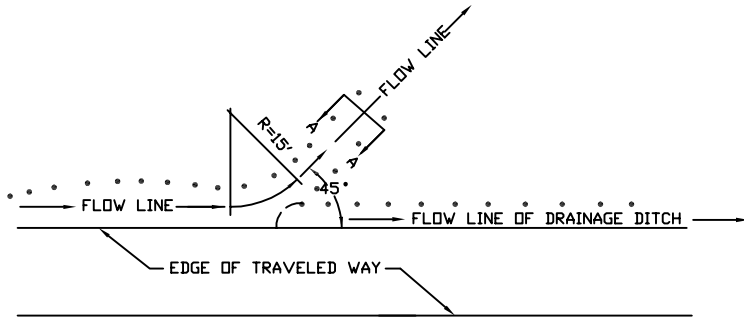
PLAN VIEW



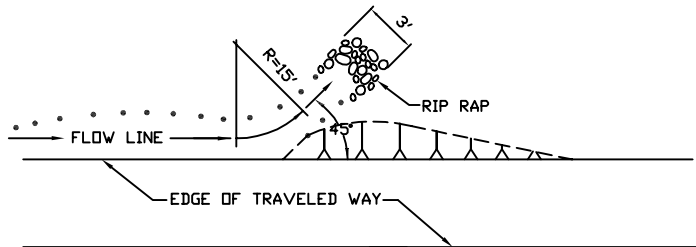
PROFILE VIEW

- NOTES
1. ALL WATER BARS SHALL BEGIN AT THE INTERSECTION OF THE ROADBED AND CUT SLOPE AND RUN ACROSS THE ENTIRE WIDTH OF THE ROADBED.
 2. ALL WATER BARS SHALL HAVE FREE FLOWING OUTLETS.
 3. WHEN STAKES ARE USED, THEY SHALL DESIGNATE THE OUTLET LOCATION.

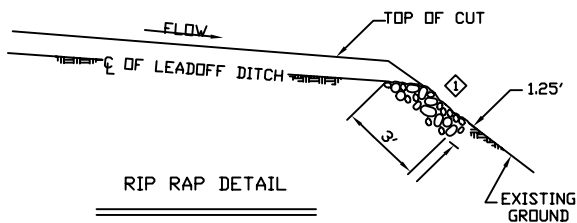
WATER BAR DETAIL		
PROJECT NAME	SHEET NUMBER	OF SHEETS
AMERICAN TIMBER SALE	8	10



LEADOFF DITCH IN CUT - PLAN VIEW



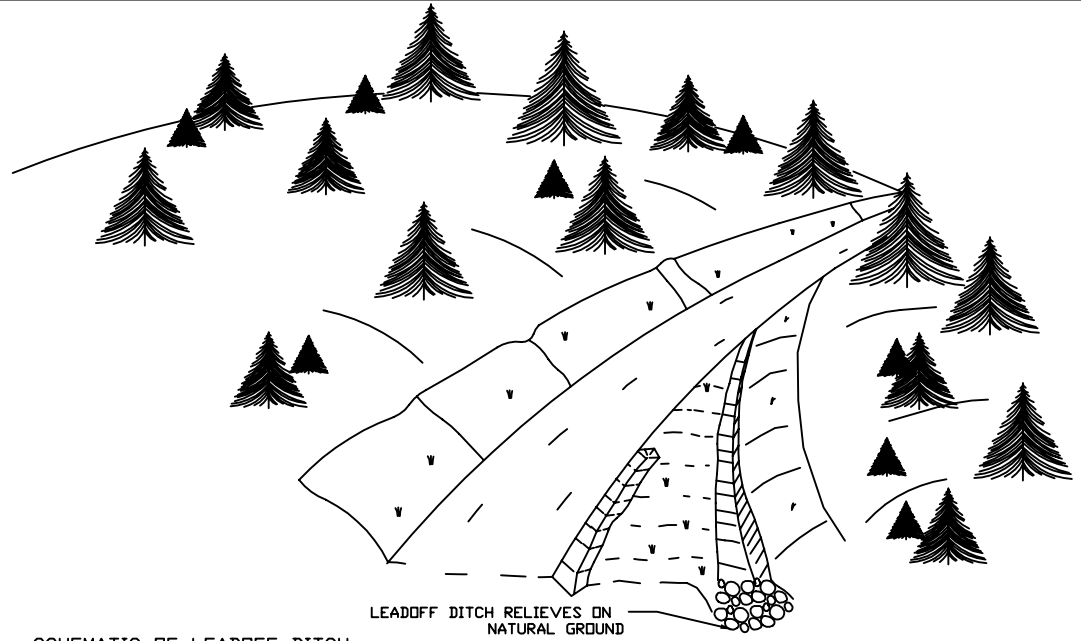
LEADOFF DITCH AT THE END OF CUT - PLAN VIEW



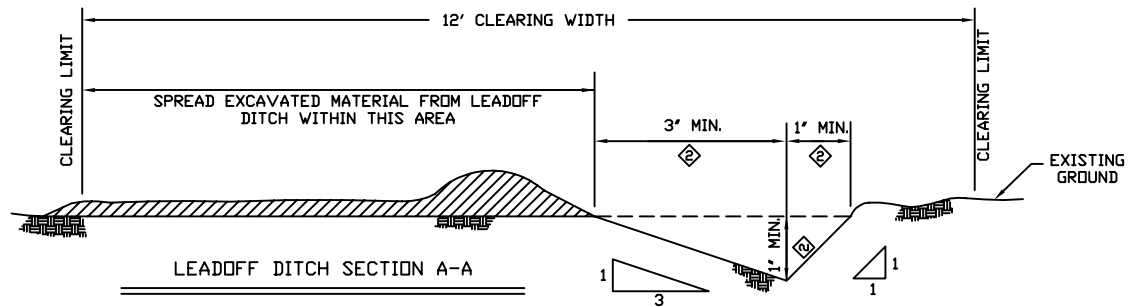
RIP RAP DETAIL

CONSTRUCTION LIMITS

TOE OF FILL - - - -
 TOP OF CUT



SCHEMATIC OF LEADOFF DITCH



LEADOFF DITCH SECTION A-A

NOTES:

- ① PROVIDE OUTLET PROTECTION WHEN SHOWN ON THE DRAWINGS. A. WHEN RIPRAP IS SPECIFIED THE AMOUNT SHALL BE AS SHOWN ON THE DRAWINGS, AND THE CLASS AND/OR SIZE SHALL BE AS SHOWN ON THE SCHEDULE OF ITEMS OR SPECIAL PROJECT SPECIFICATIONS.
- ② THESE DIMENSIONS MAY BE LARGER THAN SHOWN IF NECESSARY TO DRAIN PROPERLY.
- ③ THE FLOW LINE SHALL BE CONSTRUCTED TO A GRADE WHICH IS WITHIN ±2% OF THE ROADWAY DITCH GRADE AND NOT FLATTER THAN A -2% GRADE.

LEADOFF DITCH DETAILS

STATE	FOREST	PROJECT NAME	SHEET NO.	
CALIF.	TAHDE	AMERICAN TS	9	10