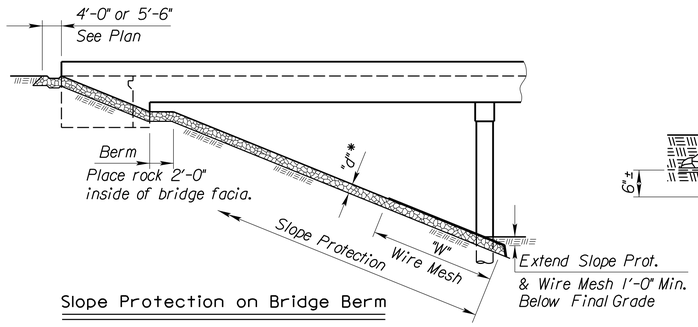
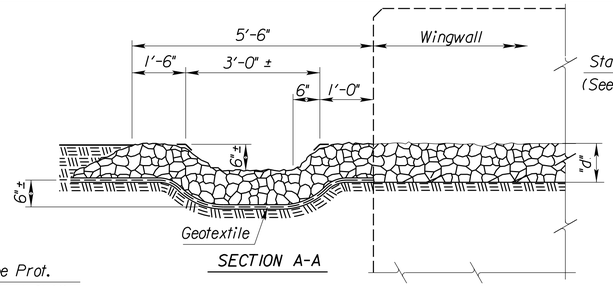
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 TE-0451-01	2018	84	222

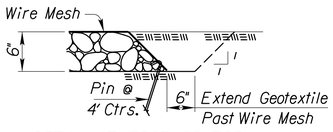


Slope Protection on Bridge Berm

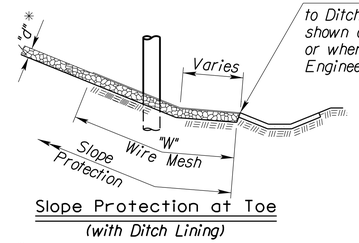


SECTION A-A

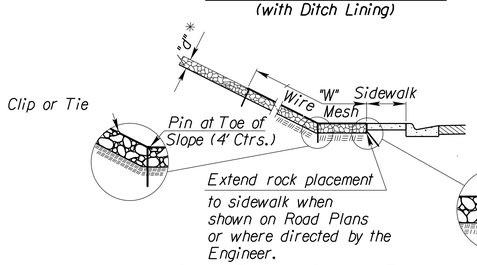
NOTE: Section A-A, Rock Flume required when curb is omitted on the approach slab or when shown on the Construction Layout sheet.



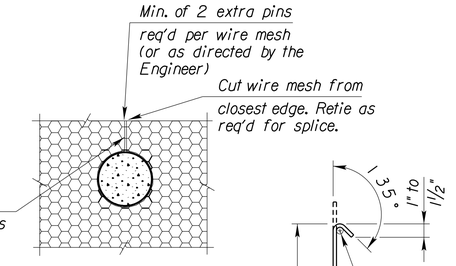
DETAIL AT EDGE OR TOE



Slope Protection at Toe
(with Ditch Lining)

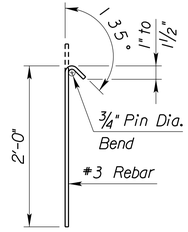


Slope Protection at Toe
(with Sidewalk)



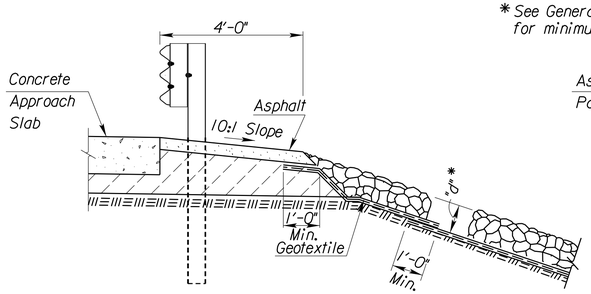
DETAIL AT COLUMNS
(Or Other Obstruction)

Note:
Pins shall be sharpened or geotextile shall be cut to allow penetration of stake without tearing or ripping the geotextile fabric.

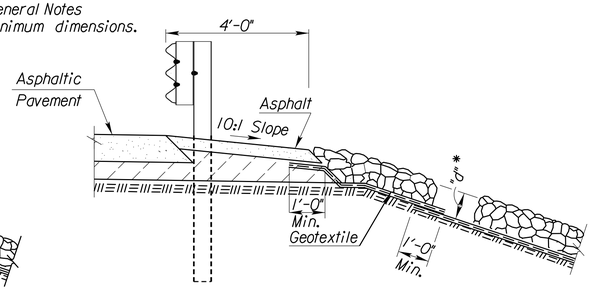


TYPICAL PIN
DETAIL

* See General Notes for minimum dimensions.

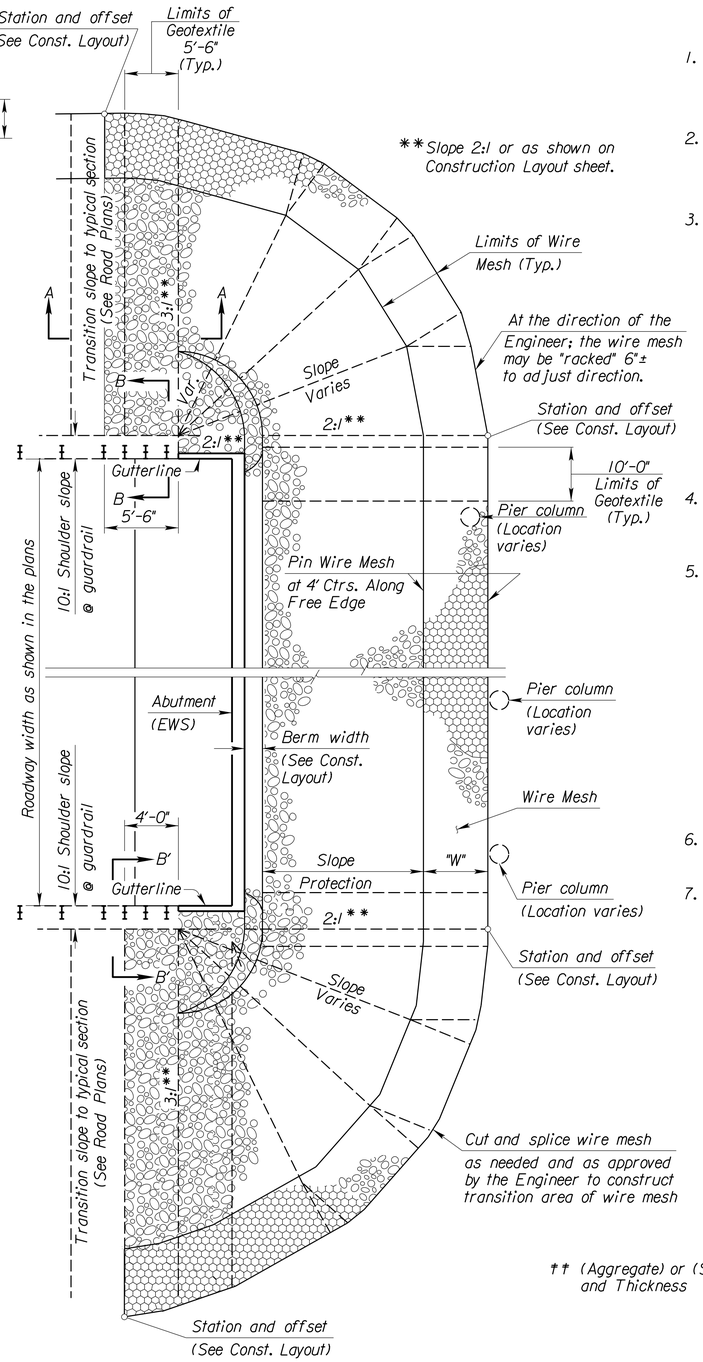


SECTION B-B
(For Concrete Approach Slab)



SECTION B'-B'
(For Asphaltic Pavement)

TYPICAL ELEVATIONS



PLAN - BERM
AND SLOPE PROTECTION
U-TYPE ABUTMENT

GENERAL NOTES

1. Limits of slope protection are shown on the Construction Layout sheet. Limits may be adjusted as needed at the direction of the Engineer to match ground elevations found at the site.
2. Gradation and aggregate for the Slope Protection (Aggregate) shall meet the requirements of stone for Aggregate Ditch Lining and have a D_{50} of 4 inches unless otherwise noted on the Plans.
3. Wire mesh shall be PVC coated and have a nominal mesh opening of $2\frac{1}{2}$"x$3\frac{1}{4}$". Wire mesh shall be furnished full width up to widths of 12.0 feet ("W"= 12.0 ft.). When widths greater than 12.0 feet are specified on the plans, the furnished width shall be as recommended by the manufacturer but not less than 6.0 feet. All splices shall be made with PVC coated lacing wire, PVC coated wire ties, or stainless steel fastener clips. The longitudinal edges of the wire mesh shall be securely selvedged to prevent ravelling of the mesh. Wire mesh and tie wires shall meet the material requirements for Gabions in the KDOT Specifications. Wire mesh shall not be used unless noted in the Plans and shown in the Table of Quantities. When wire mesh is specified, the bid item shall be "Slope Protection (Special)" and wire mesh shall be subsidiary.
4. Excavation and grading for placement of slope protection and all work and material to install geotextile fabric shall be subsidiary to slope protection.
5. Slope protection shall be underlain with geotextile fabric within limits shown. Fabric damaged or displaced during construction shall be replaced at no cost to KDOT. Fabric shall be installed and secured as recommended by the fabric manufacturer. One (1) copy of the fabric manufacturer's installation procedure shall be submitted to the Engineer. The installation procedure shall show details of the splices, overlaps, and pin layout. Minimum overlap of geotextile shall be 1 ft. Fabric shall be anchored along edges and splices at a maximum of 3 foot centers with staples or pins (w/washers). Interior area of fabric shall be pinned or stapled as recommended by the manufacturer but not more than 5 foot centers. Pins or staples shall be a minimum of 12 inches in length. Geotextile fabric shall meet the requirements of KDOT Specifications.
6. Unless noted otherwise on the Construction Layout, "d" shall be a minimum of 6 in., "W" shall be 12.0 ft.
7. The Contractor shall place the rock from the bottom to the top of the slope. Place the rock in a manner which produces a reasonably well graded mass of rock without segregation of the material sizes. Placement, measurement, and payment shall conform to KDOT Specifications for Slope Protection.

QUANTITIES
† For Information Only

Bridge Number	Slope Protection (††) Cu. Yds.	†Geotextile Sq. Yds.	†Wire Mesh Sq. Yds.
105+30.00	256	511	511
154+12.00	151	302	302
201+52.00	123	246	246

†† (Aggregate) or (Special) and Thickness

NO.	DATE	REVISIONS	BY	APP'D
3	12/10/10	Clarified Geotextile	JPJ	TLF
2	7/14/04	Changed to guard "rail"	RAM	KFH
1	5/15/02	Clarified Bid Items	RAM	KFH

KANSAS DEPARTMENT OF TRANSPORTATION

BRIDGE BERM AND
SLOPE PROTECTION
U-TYPE ABUTMENT

BRI32B

FHWA APPROVAL			6/4/02	APP'D	KENNETH F. HURST
DESIGNED	RRR	DETAILED	PGF	QUANTITIES	CADD 5/95 PGF
DESIGN CK.		DETAIL CK.	RRR	QUAN.CK.	CADD CK.

Std. Base File: br132b.dgn | Plot Location: $UNIT$
Plotted By: $$USERNAME$$
File: $$$$$$$$$$$$DGNSPEC$$$$$$$$$$$$$$
Plot Date: $$$$$SYTIME$$$$$$

CADconform Certify This File
CADconform Certify This File