

**CHAPTER 6
GRADING**

6.00	GENERAL GRADING INSTRUCTIONS -----	6-1
6.01	ROAD CROSSING FOR CONSTRUCTION EQUIPMENT-----	6-1
6.10	SITE PREPARATION -----	6-3
6.11	CLEARING AND GRUBBING -----	6-3
	Indiana Bats -----	6-3
	Disposal of Waste-----	6-3
	Area Clearing-----	6-4
	Selective Clearing-----	6-4
	Preliminary Estimate for Clearing Right of Way (Form 650014) -----	6-5
	Method of Payment-----	6-5
6.12	REMOVAL AND DISPOSAL OF OLD PAVEMENT-----	6-5
6.13	DISPOSAL OF HOT MIX ASPHALT PAVEMENT -----	6-6
6.14	DEMOLITION WASTE-----	6-6
6.20	TOPSOIL -----	6-7
6.21	STRIPPING, SALVAGING, AND SPREADING -----	6-7
	Monitoring Topsoil Removal-----	6-7
	Topsoil on Roadway Cuts and Embankments-----	6-7
	Cultural Resource Protection-----	6-7
	Payment for Topsoil -----	6-8
6.30	EXCAVATION -----	6-9
	Class 10 -----	6-9
	Class 12 -----	6-10
	Class 13 -----	6-10
	Select Soils -----	6-10
6.31	PEAT EXCAVATION -----	6-10
	Total Removal of Peat -----	6-10
	Partial Removal of Peat -----	6-10
6.32	ROCK EXCAVATION -----	6-11
6.33	USE OF AND PAYMENT FOR WATER USED FOR EXCAVATION AND EMBANKMENT -----	6-11
6.34	ALTERNATE BORROW AREAS AND CONTRACTOR FURNISHED BORROW ----	6-12
6.35	PRESERVATION OF CULTURAL RESOURCES-----	6-13

Alternate Borrow Areas and Contractor Furnished Borrow----- 6-13

6.40 EMBANKMENT ----- 6-14

6.41 EMBANKMENT CONSTRUCTION----- 6-14

 Equipment----- 6-14

 Site Preparation ----- 6-15

 Deposition of Embankment Material ----- 6-15

 Compaction----- 6-15

 Special Compaction of Subgrade ----- 6-17

 Subgrade Treatment ----- 6-17

 Construction of Embankment Toe Berms----- 6-18

 Construction of Bridge Approach Fills ----- 6-18

 Embankment in Place----- 6-18

 Payment for Water for Embankment Construction ----- 6-18

 Finishing ----- 6-18

6.42 OVERHAUL ----- 6-19

6.43 SETTLEMENT PLATES----- **6-19**

 Guidelines for Installation and Monitoring of Settlement Plates----- 6-20

6.50 PIPE CULVERTS BY THE GRADING CONTRACTOR ----- 6-21

6.51 MATERIAL ----- 6-21

6.52 PIPE INSTALLATION----- 6-21

 Excavation ----- 6-21

 Bedding ----- 6-21

 Joints ----- 6-21

 Backfilling----- 6-22

6.53 CULVERT ABANDONMENT----- 6-22

6.54 LOAD LIMITS OVER CULVERTS ----- 6-22

6.60 SUBDRAINS ----- 6-25

6.61 TILE RELOCATION ----- 6-25

6.62 BACKSLOPE DRAINS----- 6-25

6.63 LONGITUDINAL DRAINS----- 6-25