1 General
1.1 Asphalt pavements on the main campus are to be surfaced with hot-mix asphalt concrete.

2 Reference
2.1 The principle reference for materials and methods is the "Indiana Department of Transportation Standard Specifications," latest edition (INDOT).

3 Installation Methods
3.1 All installation and sub-grade preparation methods shall conform to the appropriate section of the INDOT Spec.
3.2 Unsuitable sub-grade material shall be removed and replaced with compacted suitable material or covered with appropriate construction grade fabric prior to subbase installation. Recommended depth of unsuitable sub-grade removal and replacement shall be provided by the project's geotechnical engineer.
3.3 Tack coat will be used only when overlayment of existing asphalt concrete must be postponed longer than 14 days.
3.4 All pavement patch perimeters will be crack sealed to reduce future cracking between new patch perimeters and existing pavements.

4 Light Duty Pavement
4.1 Description
4.1.1 One and a half inch (1.5") of compacted top surface on top of two inches (2") of compacted binder on top of four inches (6") of compacted type #53 granular sub-base
4.2 Uses
- Pedestrian walks with minimal vehicular traffic expected and no emergency vehicles planned.

5 Medium Duty Pavement
5.1 Description
5.1.1 One and half inches (1.5") of compacted top surface on top of three inches (3") of compacted binder on top of eight inch (8") of compacted Type #53 limestone sub-base
5.2 Uses
- Pedestrian walks with moderate vehicular use expected or for use as planned emergency access.
- Parking areas with no mass transit vehicles using driving lanes.
- Service drives, e.g. roads without constant, heavy vehicular traffic.

6 Heavy Duty Pavement
6.1 Description
6.1.1 One and half inches (1.5") of compacted top surface on top of 4.5 inches (4.5") of compacted binder on top of twelve inches (12") of compacted type #53 limestone sub-base
6.2 Uses
- Parking and drive lanes with trucks & mass transit (bus) use.
- Main and central campus roads.

7 Pavement Sections
7.1 Consider pavement sections per City of West Lafayette, Indiana Typical Construction Guidelines and Details, most recent addition.
7.2 Consider the use of stone matrix asphalt for surface coat. Provide value engineering cost difference vs regular INDOT surface mix.

Note: Justify/provide design calculations for chosen pavement sections within soils report or separate document. Heavy Bus traffic continues to be an issue for pavement performance.