

Appendix A

Examples

**KENTUCKY TRANSPORTATION CABINET
DIVISION OF HIGHWAY DESIGN
PAVEMENT BRANCH**

Pavement Design off the National Highway System

County Franklin Item XX-XXXX.XX

Description Example Pavement Design

Current ADT: 12,000 Construction Year AADTT: 1,800

Existing Type: Asphalt Existing Thickness: 9.25" AC on 13" DGA

Length 1.00 Miles Approx. Ln-Miles 4.50 Design Speed 55 M.P.H.

CBR 3.0

ROADBED PREPARATION:

00008	CEMENT STABILIZED ROADBED	SQ YD
02542	CEMENT (8", CBR=3, 6%, 104 LBS/CF	TON
00358	ASPHALT CURING SEAL (2.0 LB/SY)	TON
02702	SAND FOR BLOTTER (5.0 LB/SY)	TON
00078	CRUSHED AGGREGATE SIZE NO 2 (May also use #3 or #23)	SQ YD

ASPHALT ALTERNATE:

Driving Lanes and TWLTL

00003	CRUSHED STONE BASE	6.00 IN DEPTH
00214	CL3 ASPHALT BASE 1.00D PG64-22	3.50 IN DEPTH
00214	CL3 ASPHALT BASE 1.00D PG64-22	3.50 IN DEPTH
00388	CL3 ASPHALT SURFACE 0.38B PG64-22	1.50 IN DEPTH

Outside Shoulders

00003	CRUSHED STONE BASE	9.50 IN DEPTH
00212	CL2 ASPHALT BASE 1.00D PG64-22	3.50 IN DEPTH
00301	CL2 ASPHALT SURFACE 0.38D PG64-22	1.50 IN DEPTH

CONCRETE ALTERNATE:

Driving Lanes and TWLTL

00003	CRUSHED STONE BASE	4.00 IN DEPTH
02073	JPC PAVEMENT - 9 IN	9.00 IN DEPTH

Outside Shoulders

00003	CRUSHED STONE BASE	7.00 IN DEPTH
02073	JPC PAVEMENT - 6 IN SHLD	6.00 IN DEPTH

PLAN NOTES: 233 (8.5"), 275, 444(A) 447, 455, 555(A)

SPECIAL NOTE FOR: 11N LONGITUDINAL PAVEMENT JOINT ADHESIVE
DOWEL BAR AND TIE BAR PLACEMENT IN JPC PAVEMENT
INLAID PAVEMENT MARKERS
11J FULL DEPTH CONCRETE PAVEMENT REPAIRS

SPECIAL PROVISION FOR: N/A

COMMENTS:

1. Provide and use a MTV as specified in Section 403 of the standard specifications.
2. Asphalt Seal is required from outside edge of paved shoulder to a point 2 feet down the ditch or fill slope. Two applications of the following:

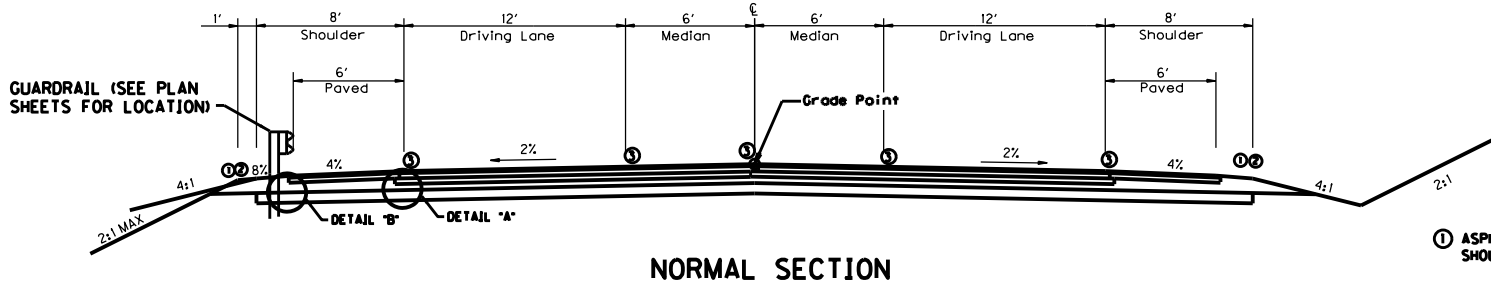
00103	ASPHALT SEAL COAT	2.40 LB/SY
00100	ASPHALT SEAL AGGREGATE	20 LB/SY

SUBMITTED _____ DATE _____ DESIGNER

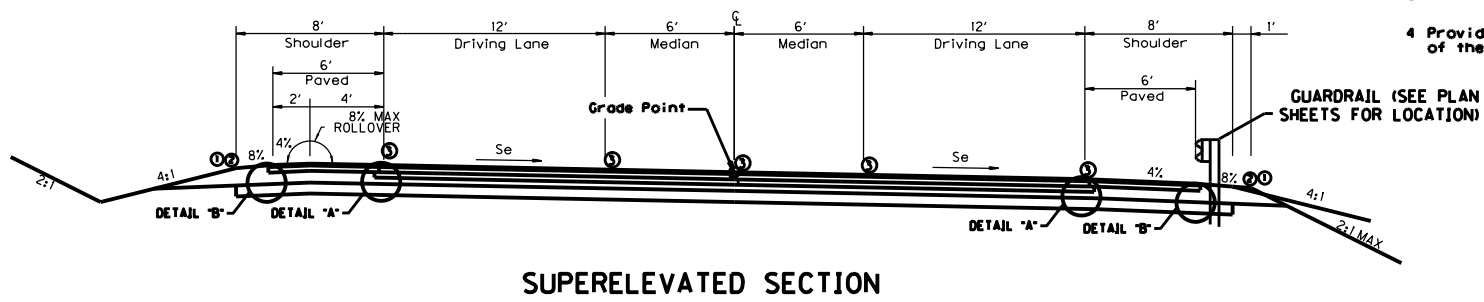
RECOMMENDED _____ DATE _____ PROJECT MANAGER

RECOMMENDED _____ DATE _____ DISTRICT PDBM

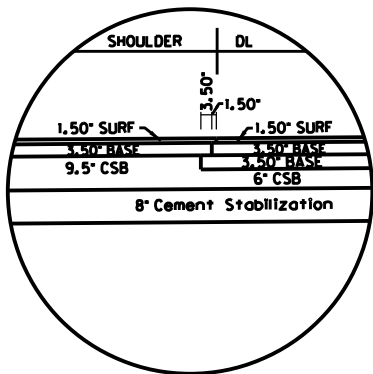
TYPICAL SECTION ASPHALT ALTERNATE



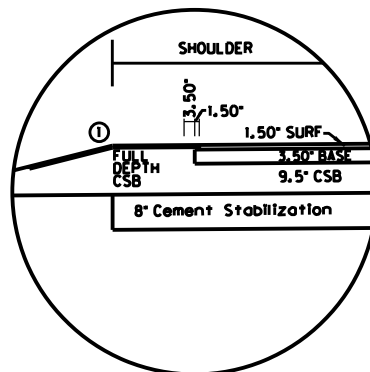
- ① ASPHALT SEAL IS REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
2.4 LB/SY ASPHALT SEAL COAT (TWO APPLICATIONS)
20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).
- ② SUBGRADE STABILIZATION IS REQUIRED FROM SHOULDER BREAK TO SHOULDER BREAK.
- ③ LONGITUDINAL JOINT ADHESIVE
- ④ Provide and use a MTV as specified in Section 403 of the standard specifications.



DETAIL "A"



DETAIL "B"



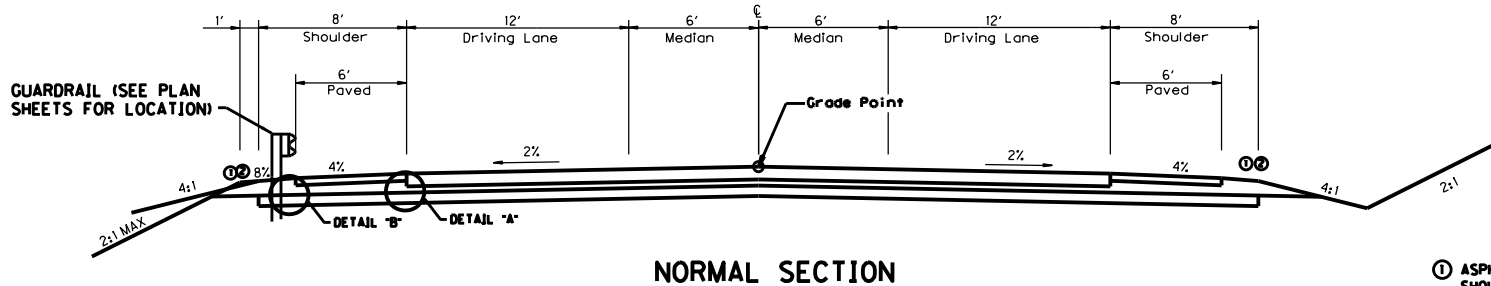
DRIVING LANES PAVEMENT DESIGN

- | | | |
|---------------|-----|---|
| 1.50" SURFACE | — [| 1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.388 PG 64-22 |
| 13.0" BASE | — [| 7.00" DEPTH CLASS 3 ASPHALT BASE 1.000 PG 64-22 (3.50" + 3.50")
6.00" COMPACTED DEPTH CRUSHED STONE BASE |
| | | 8.00" Cement Stabilization |

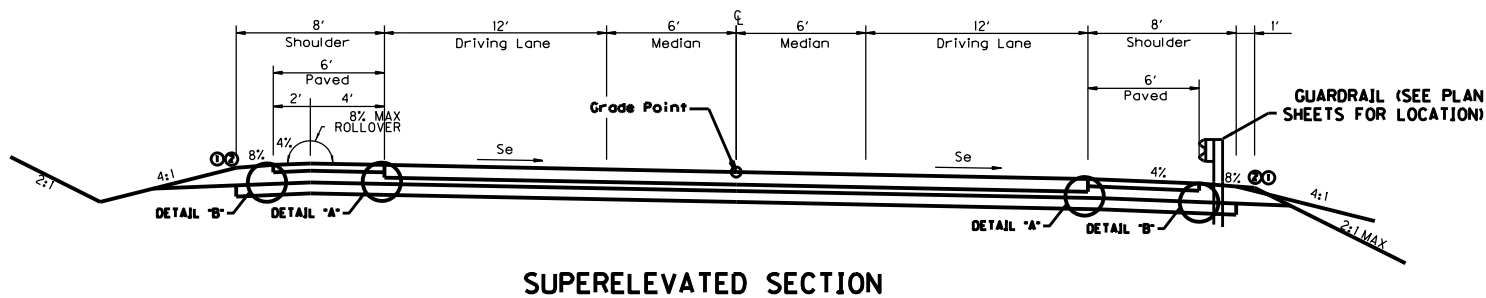
OUTSIDE SHOULDERS PAVEMENT DESIGN

- | | | |
|---------------|-----|---|
| 1.50" SURFACE | — [| 1.50" DEPTH CLASS 2 ASPHALT SURFACE 0.388 PG 64-22 |
| 13.0" BASE | — [| 3.50" DEPTH CLASS 2 ASPHALT BASE 1.000 PG 64-22
9.50" COMPACTED DEPTH CRUSHED STONE BASE |
| | | 8.00" Cement Stabilization |

TYPICAL SECTION CONCRETE ALTERNATE

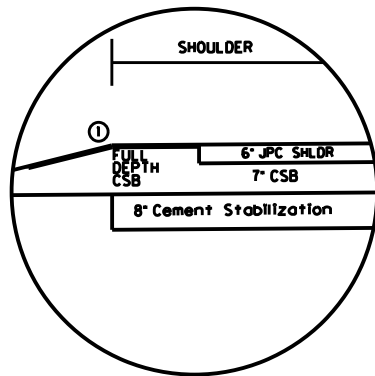
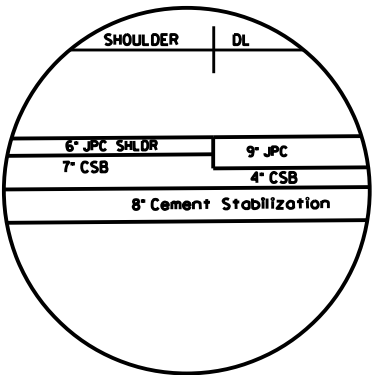


- ① ASPHALT SEAL IS REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
2.4 LB/SY ASPHALT SEAL COAT (TWO APPLICATIONS)
20 LB/SY ASPHALT SEAL AGGREGATE (TWO APPLICATIONS).
- ② SUBGRADE STABILIZATION IS REQUIRED FROM SHOULDER BREAK TO SHOULDER BREAK.



DETAIL "A"

DETAIL "B"



MAINLINE PAVEMENT DESIGN

- JPC PAVEMENT — [9.00" JPC PAVEMENT
- 4" BASE — [4.00" CRUSHED STONE BASE
- 8.00" CEMENT STABILIZATION

SHOULDER PAVEMENT DESIGN

- JPC PAVEMENT — [6.00" JPC PAVEMENT SHLD
- 7.0" BASE — [7.00" CRUSHED STONE BASE
- 8.00" CEMENT STABILIZATION