

CHAPTER SIX
TYPICAL SECTIONS

PURPOSE 6-1

A typical section is a cross-sectional representation of a proposed roadway showing grading and paving details. Typical sections shall include all elements necessary to construct the roadbed and/or pavement structure.

NUMBER OF TYPICAL SECTIONS 6-1A

Typical sections shall be drawn for each different pavement design and for major variations in component widths. Partial typical sections and notes should be used for minor variations; thereby minimizing the number of typical sections required.

Typical sections or part sections are not needed for auxiliary lanes or tapers (plans cover this)

Typical sections are not needed to cover super-elevations unless there are no normal crown conditions on the segment of roadway for which the typical section applies. (Roadway standard drawings 560.01 and 560.02 show this method of constructions).

DIMENSIONS 6-1B

Dimensions shall be shown for all typical section elements. Horizontal dimensions shall be shown in feet and inches to the nearest inch. Dimensions shall be limited to those required to clearly explain the intent of the typical section.

LIMITS OF USE 6-1C

Each typical section shall include a listing of the locations where it applies. These locations shall be designated by survey line and station to station limits. Station to station limits shall be broken at beginning and ending of bridges (not approach slabs). Stations shall also be broken for Equalities, if applicable.

PAVEMENT SCHEDULE 6-1D

A full pavement schedule shall be shown on the first typical section sheet and shall contain a code and a description for all elements of the various pavement designs applicable to the project. The engineer shall show an abbreviated pavement schedule on the remaining Typical Section Sheets for easy reference. The following code letters shall be used:

PAVEMENT SCHEDULE (continued)6-1D

<u>CODE LETTER</u>	<u>ITEM</u>
A	Portland Cement Concrete Pavement
B	Open-Graded Asphalt Friction Course, Type FC
C	Asphalt Concrete Surface Course, Type S
D	Asphalt Concrete Intermediate Course, Type I
E	Asphalt Concrete Base Course, Type B
F	Asphalt Surface Treatment
G	Cement Treated Base Course
J	Aggregate Base Course
K	Stabilized Subgrade
L	Stabilizer Aggregate
M	Soil Type Base Course
N	Geotextile
P	Prime Coat
R	Combination Concrete Curb and Gutter Concrete Curb 5" Monolithic Concrete Island Concrete Island Cover
S	Concrete Sidewalk
T	Earth Material
U	Existing Pavement
V	As needed
W	Variable Depth Asphalt Pavement (See Standard Wedging Detail).
X	Permeable Asphalt Drainage Course, Type P
Y Z	As needed

REV. DATE 02/05/18

REV. NO. 8

PAVEMENT SCHEDULE (continued)

6-1D

Letter-number combinations shall be used to designate different items having the same code letter and to designate different thickness of the same material.

Descriptions of the various elements shall show thickness, size, rate of application and maximum and minimum thickness per application or layer as applicable. Questions related to pavement design details shall be referred to the Pavement Design Engineer in the Pavement Management Unit.

See 6-ID, Figure 1 for sample pavement schedule.

OPTIONS ITEM LIST

For assembling a pavement schedule, see 6-ID, Figure 1 for an example. The pavement schedule is assembled by utilizing a CADD System. This expanded option items list is plotted by CADD management. Descriptions can be deleted or corrected as needed.

Mix Type	English (Inches)		
	Minimum lift	Maximum lift	Normal total layer
S9.5B	1.0	1.5	3.0
S9.5C, D	1.5	2.0	3.0
I19.0C	2.5	4.0	4.0
B25.0C	3.0*	5.5	-

* For B25.0C placed on unstabilized subgrade, minimum lift thickness is 4.0.

PAVEMENT SCHEDULE (continued)

6-1D

The %, type of Asphalt Binder and rate to be used for calculation of quantities are as follows:

Mix Type	% Asphalt Binder	Asphalt Binder Grade	Rate (Lbs/SY/in)
<u>Friction</u>			
OGAFC, TYPE FC-1 MODIFIED	6.1	PG 76-22	70-90 Lbs/SY
<u>Surface</u>			
S4.75A	7.0	PG 64-22	100
S9.5B	6.7	PG 64-22	110
S9.5C	6.0	PG 64-22	112
S9.5D	5.7	PG 76-22	112
<u>Intermediate</u>			
I19.0C	4.8	PG 64-22	114
<u>Base</u>			
B25.0C	4.5	PG 64-22	114
PADC, TYPE P-57	2.5	PG 64-22	90
PADC, TYPE P-78M	3.0	PG 64-22	90

NOTE: It is suggested that like pavement mixtures be grouped together in the Pavement Schedule.

PAVEMENT SCHEDULE(continued)

6-ID

CODE SAMPLE DESCRIPTION F-1

A1 9" Portland Cement Concrete Pavement

A2 8" Continuously Reinforced Concrete Pavement

B Prop. Open-Graded Asphalt Friction Course, Type FC_____, at an Average Rate of _____ lbs. per sq. yd.

For Surface Course

C1 Prop. Approx. _____" Asphalt Concrete Surface Course, Type S_____, at an Average Rate of _____ lbs. per sq. yard.

C2 Prop. Approx. _____" Asphalt Concrete Surface Course, Type S_____, at an Average Rate of _____ lbs. per sq. yard in each of two layers.

C3 Prop. Var. Depth Asphalt Concrete Surface Course, Type S_____, at an Average Rate of _____ lbs. per sq. yard per 1" depth to be placed in layers not to exceed _____" in depth.

For Intermediate Course

D1 Prop. Approx. _____" Asphalt Concrete Intermediate Course, Type I19.0_____, at an Average Rate of _____ lbs. per sq. yard.

D2 Prop. Approx. _____" Asphalt Concrete Intermediate Course, Type I19.0_____, at an Average Rate of _____ lbs. per sq. yard in each of two layers.

D3 Prop. Var. Depth Asphalt Concrete Intermediate Course, Type I19.0_____, at an Average Rate of 114 lbs. per sq. yard per 1" depth to be placed in layers not less than 2 1/2" or greater than 4" in depth.

For Base Course

E1 Prop. Approx. _____" Asphalt Concrete Base Course, Type B_____, at an Average Rate of _____ lbs. per sq. yard.

E2 Prop. Approx. _____" Asphalt Concrete Base Course, Type B_____, at an Average Rate of _____ lbs. per sq. yard in each of two layers.

PAVEMENT SCHEDULE (continued)

6-1D

F-1

- E3 Prop. Var. Depth Asphalt Concrete Base Course, Type B _____, at an Average Rate of 114lbs. per sq. yd. per 1" depth, to be placed in layers not greater than _____" in depth or less than _____" in depth.
- F1 Asphalt Surface Treatment, Mat and Seal.
- F2 Asphalt Surface Treatment, _____
- G Prop. Approx. 8" Cement Treated Base Course (Plant Mixed)
or
 Prop. 8" ABC with the top 7" to be Cement Treated (Road Mixed).
- J1 Prop. 8" Aggregate Base Course
- J2 Prop. 10" Aggregate Base Course
- J3 Prop. Var. Depth Aggregate Base Course
- K1 Prop. 8" Chemical Stabilization (Soil-Cement Base/Lime-Treated Soil). Base treated with Cement at a Rate of 55 lbs. per sq. yard or Soil treated with Lime at a Rate of 20 lbs. per sq. yard.
- K2 Prop. 8" Class IV Subgrade Stabilization
- L Base to be stabilized with 200 to 400 lbs. per sq. yard of Stabilizer Aggregate mixed with the top 3" of subgrade soil at locations directed by the Engineer.
- M1 Prop. 8" Soil Type Base Course, Type A
- M2 Prop. 10" Soil Type Base Course, Type _____
- N1 Geotextile for Pavement Stabilization
- N2 Geotextile for Soil Stabilization
- P1 Prime Coat at the rate of .35 gal. per sq. yard.
- P2 Prime Coat at the rate of .50 gal. per sq. yard.

PAVEMENT SCHEDULE (continued)

6-1D

F-1

- R3 8" x 6" Concrete Curb
- R4 ____" x ____" Concrete Curb
- R5 5" Monolithic Concrete Island (surface mounted)
- R6 5" Monolithic Concrete Island (keyed in)
- R7 3" Concrete Island Cover
- R8 ____" Concrete Island Cover
- S 4" Concrete Sidewalk
- T Earth Material
- U Existing Pavement
- W Variable Depth Asphalt Pavement (See Standard Wedging Detail Sheet No. ____)
- X Permeable Asphalt Drainage Course - Type P- ____