t = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS, THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET 525 (21) FROM THE FINISHED SURFACE.

THE BITUMINOUS SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, AND SQUARE METER (SQUARE YARD) FOR BITUMINOUS SHOULDERS SUPERPAVE OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50.

> ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

> > 23.4

**BITUMINOUS SHOULDER** 

CONTRACT NO. 64412 COUNTY TOTAL SHEE SHEETS NO. SECTION 23 BR-2 JO DAVIESS 30 21 STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

BITUMINOUS SHOULDER PAY WIDTH 8" TOTAL SHOULDER THICKNESS BITUMINOUS CONCRETE SURFACE COURSE,

> t = SEE TYPICAL SECTIONS FOR THICKNESS

SUPERPAVE, MIXTURE C, N50

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

### GENERAL NOTES

THE BITUMINOUS SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, AND SQUARE YARD FOR BITUMINOUS SHOULDERS SUPERPAVE OF THE THICKNESS SPECIFIED.

USE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, WHEN RESURFACING EXISTING BITUMINOUS SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE BITUMINOUS SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

\* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD

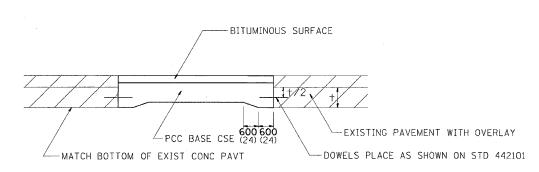
UNIT PRICE PER EACH FOR PERMANENT

SURVEY MARKERS, TYPE II.

REV. 5-30-03

23.4a

# PORTLAND CEMENT CONCRETE BASE COURSE DETAIL



## GENERAL NOTES

THE LONGITUDINAL JOINT & BASE COURSE SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD 353001.

PAVEMENT FABRIC SHALL BE PLACED IN ACCORDANCE WITH STANDARD 420601.

THE BASE COURSE SHALL BE TIED TO THE EXISTING PAVEMENT AS SHOWN WITH DOWEL BARS AS SHOWN IN STANDARD 442101. THIS COST TO BE INCLUDED IN THE COST OF THE BASE COURSE.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE STATED.

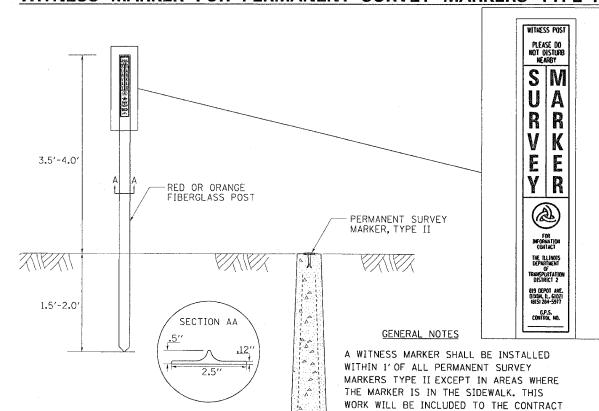
### TABLE OF BARS

PAVEMENT	DOWEL BAR	HOLE
THICKNESS	DIAMETER	DIAMETER
200 or greater	38	41
(8)	(1½)	(15/ <sub>8</sub> )
180 thru 199	32	35
(7) (7.99)	(1 <sup>1</sup> / <sub>4</sub> )	(13%)
Less than 180	25	29
(7)	(i)	(1 <mark>//8</mark> )

10 BARS FOR 12' PAVEMENT 12 BARS FOR 14' PAVEMENT 14 BARS FOR 16' PAVEMENT

> REVISED 1-27-00 24.4

# WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II



1-31-00

38.4