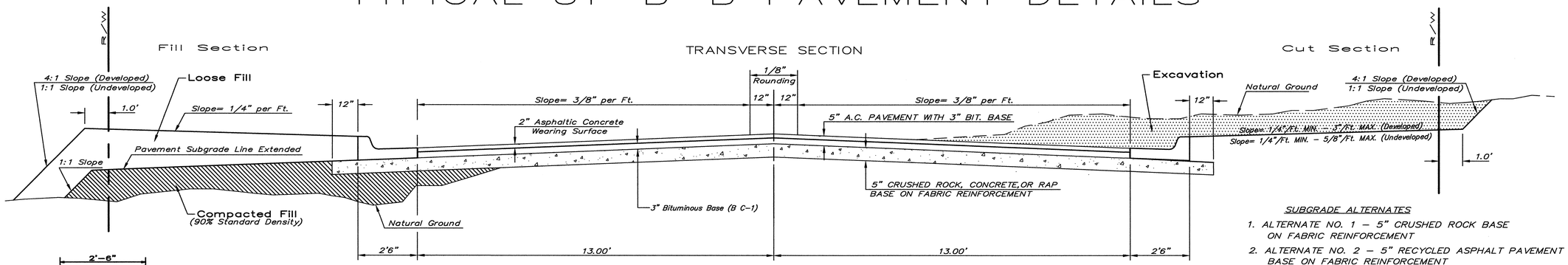
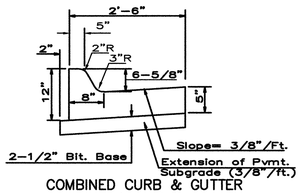
TYPICAL 31' B–B PAVEMENT DETAILS

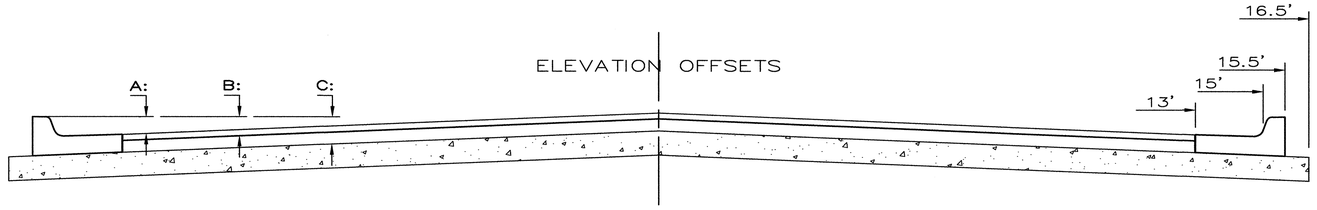


SUBGRADE ALTERNATES

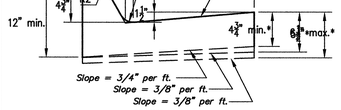
1. ALTERNATE NO. 1 – 5" CRUSHED ROCK BASE ON FABRIC REINFORCEMENT
2. ALTERNATE NO. 2 – 5" RECYCLED ASPHALT PAVEMENT BASE ON FABRIC REINFORCEMENT



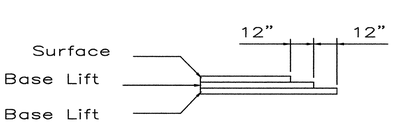
COMBINED CURB & GUTTER
(6–5/8")



DISTANCE FROM CENTERLINE (LT. & RT.)	0'	2'	4'	6'	7.5'	10'	12'	13'	15'	15.5'	16.5'
A: Top of Curbs to Top of Surface Lift	0.10	0.14	0.21	0.27	0.32	0.39	0.46	0.49	–	–	–
B: Top of Curbs to Top of Upper Base Lift	0.27	0.31	0.37	0.44	0.48	0.56	0.62	0.65	–	–	–
C: Top of Curbs to Top of C.R. Subgrade	0.52	0.56	0.62	0.69	0.73	0.81	0.87	0.90	0.97	0.98	1.01

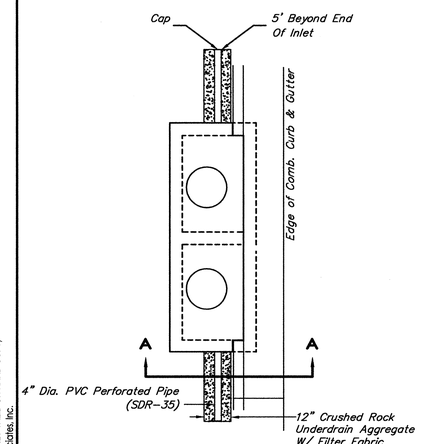


KDOT Type 1
Combined Curb & Gutter (6")
Thickness of curb to adjust with pavement thickness (6" min.)
Use 6" curb thickness if pavement is greater than 8"



TRANSVERSE CONSTRUCTION JOINTS

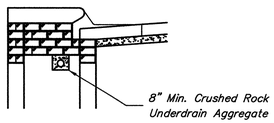
Transverse construction joints shall be constructed in flexible base pavements at locations where pavement joins existing flexible base pavement as shown by the detail. All costs associated with the construction of the transverse joint shall be included in the bid price for Square Yards 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE).



Type 1 & 2 Inlet

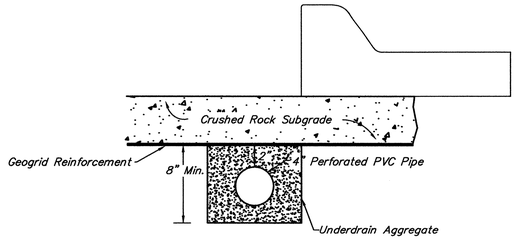
PAVEMENT UNDERDRAIN DETAIL

NOTE: Place 4" PVC Perforated Pipe at all drainage sump locations.
Cost of Underdrain System to be incidental to the Reinforced Crushed Rock Subgrade.



(Min. 16 Perforations Per Lin. Ft. @ 1/4" Dia.)
Perforations To Be on Bottom Half

SECTION A–A



SECTION A–A

CRUSHED ROCK GRADATION REQUIREMENTS
Percent of Aggregate Retained

1 1/2"	0
3/4"	15–60
# 4	40–80
#40	74–92
P–200	4–12

Rock Quality Shall Be The Same As Specified For Coarse Aggregate For Asphalt Concrete Mixes.

General Notes

FABRIC BASE REINFORCEMENT SHALL BE B X 1100 GEOGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1–1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A NO. 200 SIEVE. ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PROIR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

A TACK COAT OF EMULSIFIED ASPHALT (SC–1H OR CSS–1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE.)

CITY OF WICHITA
PUBLIC WORKS
ENGINEERING

TYPICAL 31' BK–BK PAVEMENT DETAIL
5 INCH Residential Asphaltic Concrete Pavement with Crushed Rock Base on Fabric Reinforcement

CITY ENGINEER
JAMES L. ARMOUR, P.E., L.S.

PROJECT NUMBER	OCA NUMBER	DATE
472 84437	766159	MM/YY

CITY ENGINEER'S OFFICE
CITY HALL – SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202–1620
(316) 268–4501
(316) 268–4114 FAX

DESIGN	DRAWN
ABC	DEF

SHEET

CITY OF WICHITA
PUBLIC WORKS
ENGINEERING

PAVEMENT UNDERDRAIN DETAIL

CITY ENGINEER
JAMES L. ARMOUR, P.E., L.S.

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SHEET
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ALTA STREET DESIGN, 350' WEST OF ELLIS TO HYDRAULIC
WICHITA, KANSAS
C.O.W. PROJ. NO.: 472 84437

ISSUED FOR CONSTRUCTION

Revision

31' TYPICAL SECTION DETAIL

Drawn by	Job Number
CKW	073009-00
Checked by	Contact Person
	J. MOHLER
Date	Sheet Number
1/02/08	C5.01

DRAWING FILE NAME AND LOCATION: G:\073009-00\ENGD\NG\I31\typical section.dwg , LAYOUT TAB: 31' TYPICAL SECTION
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