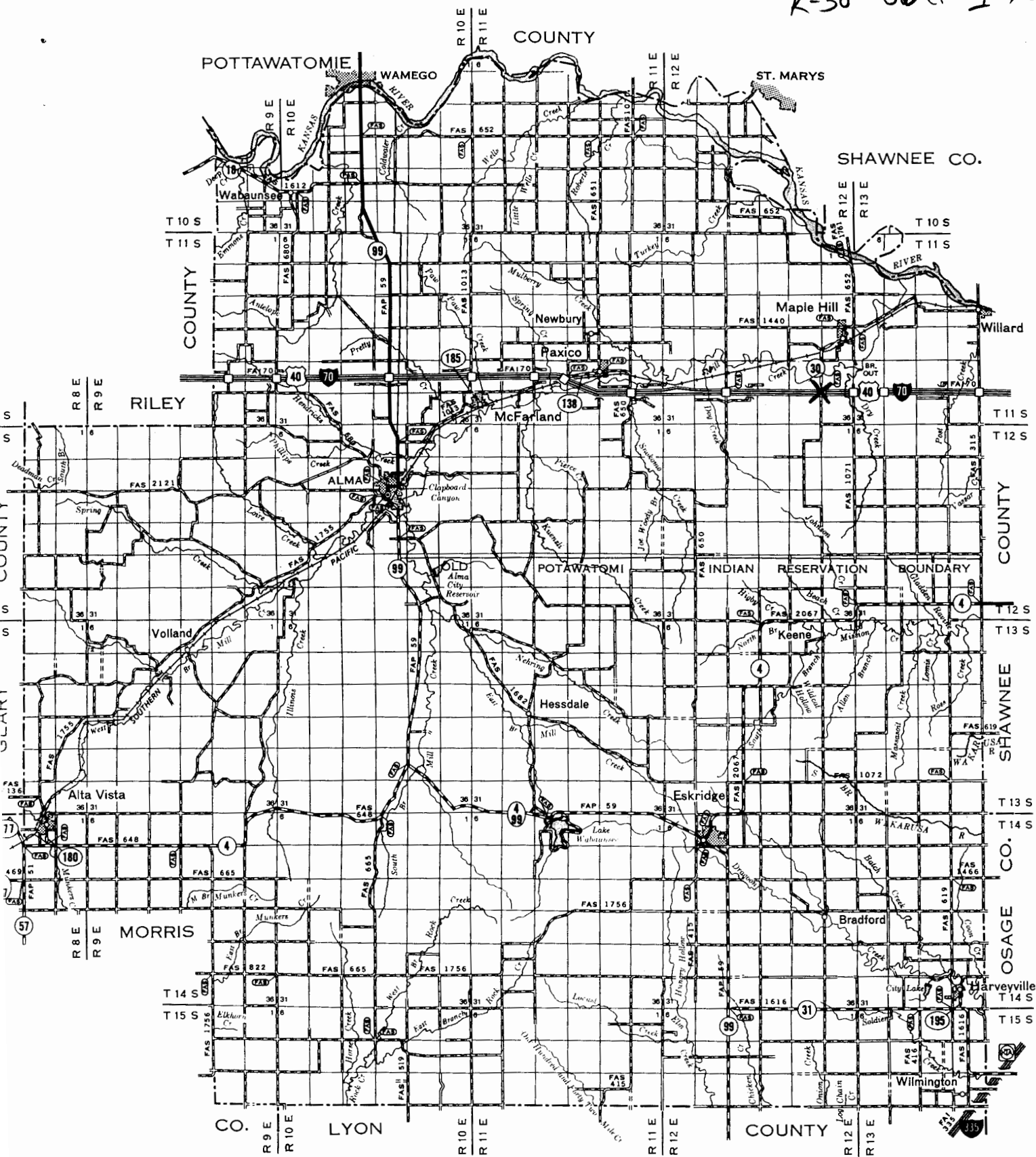


K-30 over I-70



LEGEND

ROADS AND ROADWAY FEATURES

- PRIMITIVE ROAD
- UNIMPROVED ROAD
- GRADED AND DRAINED ROAD
- SOIL SURFACED ROAD
- GRAVEL OR STONE ROAD—NOT GRADED OR DRAINED
- GRAVEL OR STONE ROAD—GRADED AND DRAINED
- GRAVEL OR STONE ROAD WITH STABILIZED SURFACE
- BITUMINOUS ROAD—LOW TYPE
- PAVED ROAD
- DIVIDED HIGHWAY
- HIGHWAY WITH FULL CONTROL OF ACCESS AND INTERCHANGE

ROAD SYSTEM DESIGNATION

- FEDERAL-AID INTERSTATE HIGHWAY SYSTEM
- FEDERAL-AID PRIMARY HIGHWAY SYSTEM
- FEDERAL-AID SECONDARY HIGHWAY SYSTEM
- INTERSTATE NUMBERED HIGHWAY
- U. S. NUMBERED HIGHWAY
- STATE HIGHWAY SYSTEM OR STATE NUMBERED HIGHWAY
- END OF DESIGNATED SYSTEM OR MARKED ROUTE



GENERAL HIGHWAY MAP WABAUNSEE COUNTY KANSAS

PREPARED BY THE
KANSAS DEPARTMENT OF TRANSPORTATION
BUREAU OF TRANSPORTATION PLANNING
IN COOPERATION WITH THE
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE 1" = 10 MILES

EC-26 THIS RFE
SE

Date: 2/23/98

Project No. 070-099 K-5633-01

Bridge No. 30-99-00.00

Location: K-30 Over I-70 At Maple Hill Exit

<u>Core 1</u>		<u>Core 2</u>		<u>Core 3</u>		<u>Core 4</u>		<u>Core 5</u>
3.627 to 4.724		4.724 to 6.248		6.248 to 7.620		7.620 to 9.144		9.144 to 10.668
300.282 - 299.185		299.185 - 297.661		297.661 - 296.289		296.289 - 294.765		294.765 - 293.241
Cut 1.097		Cut 1.524		Cut 1.372		Cut 1.524		Cut 1.524
Recov. 1.097		Recov. 1.524		Recov. 1.372		Recov. 1.524		Recov. 1.494
RQD= 94 %		RQD= 100 %		RQD= 95 %		RQD= 100 %		RQD= 86 %

Shelby #1

1.372 to 1.981

302.537 to 301.928

Pushed 0.61

Recovered 0.488

Silty-clay, brown, some small gravel.

KANSAS DEPARTMENT OF TRANSPORTATION

Report of sample of Geology Cores/Shelby Tubes

Laboratory No. 98-451

Date Rep'td. March 20, 1998

Date Rec'd. March 2, 1998

Specification No. - - Quantity - - -

Source of material Project

Sample from Project

Submitted by Delmar Thompson, Lawrence Regional Geo. Office

Identification marks Tags with samples

Project or POV 070-099 K-5633-01

Type of construction Bridge #30-99-00.00, K-30 over I-70, Core hole 1 @ Abut. #2

TEST RESULTS

Sample No.	Metric Station	Dist. m CL	Depth m	Description	Qu. kPa	Sample kg/m ³ by Dry Wt.	Moisture (% of Dry Wt.)
T.H.E. = 303.909							
SH #1	5+047.6	8.7 Rt.	1372-1981	Silty clay w/sm. grvl	135.0	1514.00	28.6
S #1	"	" "	4176-4359	Shale, buff to olive	207.6	1661.00	24.6
S #2	"	" "	5029-5212	LS, gray	16468.1	2504.00	3.1
S #3	"	" "	5547-5745	LS, Lt. gray, massv.	46958.2	2508.00	2.9
S #4	"	" "	6675-6828	SH, very sndy, green	1804.2	2142.00	9.5
S #5	"	" "	7010-7163	Sandstone, green	1722.6	2064.00	10.0
S #6	"	" "	7772-7955	" "	3196.1	2098.00	10.9
S #7	"	" "	8839-9022	" "	5230.1	2173.00	8.9
S #8	"	" "	10058-10211	" "	5237.8	2172.00	9.4

See attached routine analysis test results.

cc: L.S. Ingram
G.R. Koontz
D. Thompson
J.J. Brennan
R. Henthorne
Soil Section
File

Reported by Man

Title James

	TSF	lbs/ft ³
SH 1	1.41	94.52
# 1	2.17	103.69
2	171.84	156.32
3	490.00	156.57
4	18.82	133.72
5	17.97	128.05
6	33.35	130.97
7	54.58	135.65
8	54.66	135.59

K-30 over I-70 Core Hole #1

2-23-98

Sta 5+047.6

Point #2

8.7 R+L of

New Bridge

Abut 2

BB, RU, RD

Water level 1 meter
plugged 4-13-98

Casing

1-6 4 1/2

2-4 5

10 9 ft

Elev meters	meters	Elev. ft.	ft.
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303.909		997.077	0 ⁰ 10 ⁸
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300.770	3.139		10 ³ -11 ⁹
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Core #1

11⁹-15⁵

Cut 3⁶

Rec. 3⁶

RQD 34/36

94.4%

300.282	3.627		11 ⁹ -15 ³
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299.246	4.663		15 ³ -15 ⁵
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70-99-K-5633-01

Bridge # 70-99-00.00

58

Casing set, casing open to 7⁸

Silty clay - brown

Shelby 45⁰-6⁵ Pushed 20 Recov. 1⁶

Silty clay
with small gravel
brown/orange

Shale, very weathered, buff, soft

Starts to grade slightly olive to 11⁵

Shale, weathered, buff & olive,

Fairly soft, clayey

LS, buff, weathered, fossiliferous

Over
LS

Sample 1 13⁷-14³ ft 4.176-4.359 m
shale, buff & olive, weathered

K-30
Core Hole

I-70
Map H-11

Shale

[illegible]

178-181

59

- LS, brown hard, fossiliferous
- LS, gray hard, fossiliferous, impure
- LS, shaly gray fossiliferous
shale partings / shaly
- LS, light gray hard, massive

Dover
La

Sample 2 16^S-17^{1st} 5.029-5.212 m
LS, gray fossiliferous

Sample 3 $18^2 - 18^{45}$ 5.547 - 5.745 m
LS, light gray massive hard

LS, shaly green. (pale soils)
shale, very sandy, green, pyrite
21³-21⁶ LS nodules
SS, gray/gray-green
shale, very sandy to soft SS, green

Dover LS

Pillsbury
Sh.

Sample 4 21⁹-22⁴ ft 6.675-6.828 m
Shale, very sandy, green

Sample 5 23⁰ - 23⁵ ft. 7.010 - 7.163m
SS, green

I-70 over
K-130
Payco
over hole

	Elev. meters	meters	Elev. ft	ft
Core 4	296.289	7.62		
25°-30°				25°-27 ²
Cut 5°				27 ² -27 ³
Recov 5°				27 ³ -30°
RQD = 100%				

Core 5	294.765	9.144		30°-30 ⁸
30°-35°				30 ⁸ -31 ³
Cut 5°				31 ³ -31 ⁷
Recov 4 ⁹				31 ⁷ -32 ⁹
RQD = 43/5°				32 ⁹ -34 ⁵
86%				34 ⁵ -35°

	293.241	10.668		35°
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60

SS, green,
LS, stringy, sandy
SS, green

Pillsbury
Sh.

Sample 6 25⁵-26¹ 7.772-7.955 m
SS, green

Sample 7 29°-29⁶ 8.839-9.022 m
SS, green

SS, green

SS, shaly

SS, gray-green

SS, shaly to very sandy shale, gray-green

SS

SS, shaly

Pillsbury
Sh.

Sample 8 33°-33⁵ 10.058-10.211 m
SS, gray-green soft

End Core Hole 1

1700
1300
1000
700
400
100
0