

QC3

KANSAS DEPARTMENT OF TRANSPORTATION

2-12-10 E



1. ROUTE-COUNTY NO. 004-089	7. SOUNDING NO. 1	8. SHEET 1 OF 2
2. BRIDGE STA. 68+12 @ Croco Rd.	4. PROJECT NO. K-6252-01	6. BRIDGE NO. 470-89-11.89
3. DESCRIPTION Croco Rd over I-470		5. HOLE STA. 65+85, 54 Lt @
9. GEOLOGIST Billinger	10. VERTICLE SCALE 1" = 5'	11. DATE 5-28-97
12. DRILLER Sunderland	13. RIG Mobile B-61	14. ELEVATION TOP OF HOLE 1011.4
15. hole caved at GROUND WATER ELEV. 1007.4	16. TOTAL DEPTH OF HOLE 32.9	17. ELEVATION TOP OF ROCK 999.2

Croco Rd.

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
			0°	1011.4				
	Mantle			1010	Mantle, Silty clay, brown to tan.			
			122	1000				
	Jones Point Mbr.	Core 1	136	999.2				
			150	997.8	shale, weathered, olive	0.96	1	997.8
	Curzon Mbr.	Core 2	169	996.4	Limestone, weathered, orange-brown	171.32	2	996.7
				995	Limestone, blocky, staly			
				994.5	Limestone, gray, hard, blocky to massive.	345.44	3	993.9
		Core 3	218	990		436.08	4	990.2
	Jawa Point		225	989.6	shale, firm, dark gray	13.02	5	989.0
				988.9		125.83	6	988.4
	Hartford Mbr.	Core 4		985	Limestone, gray, massive			
				983.1		316.4	7	985.2
	Calhoun Fm.	Core 5	283	980	Shale, dark gray, clayey grading sandy.	12.06	8	982.6
			329	978.5				

Longyear Diamond

S
O
P
I
E
#

2/2

2-12-16E

Date: 5-28-1997

Project No. 004-089 K-6252-01

Location: Croco Road over I-470

<u>Core 1</u>	<u>Core 2</u>	<u>Core 3</u>	<u>Core 4</u>	<u>Core 5</u>
12.3 to 14.1	14.1 to 18.0	18.0 to 23.0	23.0 to 27.9	27.9 to 32.9
999.1 to 997.3	997.3 to 993.4	993.4 to 988.4	988.4 to 983.5	983.5 to 978.5
Cut 1.8	Cut 4.1	Cut 5.0	Cut 4.9	Cut 5.0
Recov. 1.8	Recov. 3.85	Recov. 5.0	Recov. 4.9	Recov. 5.0
RQD= 67%	RQD= 68%	RQD= 100%	RQD= 100%	RQD= 86%

KANSAS DEPARTMENT OF TRANSPORTATION

2-12-16E

Report of sample of Geology Cores

Laboratory No. 97-2014

Date Rep'td. June, 1997

Date Rec'd. June 2, 1997

Specification No. AASHTO T 208-92 Quantity - - -

Source of material Project

Sample from Project

Submitted by Delmer Thompson, Lawrence Geology Office

Identification marks Tags with samples

Project or POV 004-089 K6252-01, Shawnee County, District 1

Type of construction Bridge # 11.89, CrocoRd over I-470, core hole 1 btwn Abut1 & P

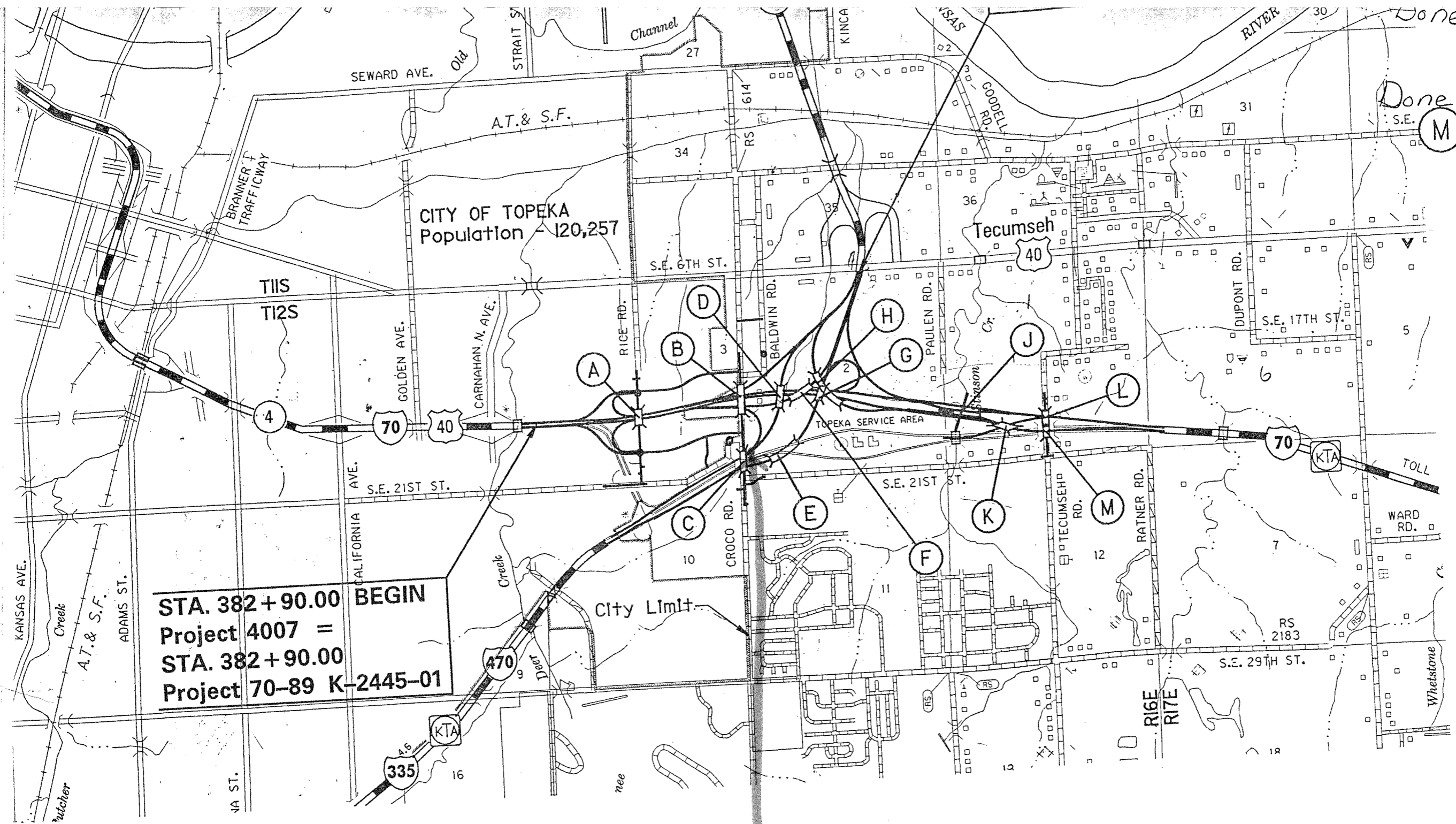
TEST RESULTS

Sample No.	Station	Dist.ft. CL	Depth ft.	Description	Qu. t.s.f.	Sample p.c.f. by Dry Wt.	Moisture (% of Dry Wt.)
1	65+85	54 Lt.	13 ¹ -13 ⁶	Shale, weathered	0.960	106.5	22.9
2	"	"	14 ¹ -14 ⁷	LS, weathered	171.322	146.5	6.9
3	"	"	16 ⁹ -17 ⁵	LS, Lt gray	345.437	154.5	3.9
4	"	"	20 ⁰ -20 ⁷	Ls, gray	436.078	154.0	3.7
5	"	"	21 ⁸⁵ -22 ⁴	Shale, Dk gray	13.021	131.7	11.1
6	"	"	22 ⁵ -23 ⁰	Ls, gray	125.826	136.0	9.9
7	"	"	25 ⁴ -26 ²	Ls, Lt gray	316.403	154.8	5.0
8	"	"	28 ⁴ -28 ⁸	Shale, gray	12.062	130.5	11.5

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

Reported by James J. Brennan

Title James J. Brennan, Soils Engineer



32'-0" Roadway

STA. 521+16.57
 Tecumseh Road
 Br. No. 70-89-21
 70'-125'-70' Cor
 32'-0" Roadway

Note: (I) not u

STA. 382+90.00 BEGIN
 Project 4007 =
 STA. 382+90.00
 Project 70-89 K-2445-01

Sheets see Sheet No. 2
 out See Sheet No.

GROSS LENGTH OF PROJECT	10,936.33 FT.	2.071 MILES
EXCEPTIONS	FT.	MILES
ADDITIONS	FT.	MILES

core hole 1
 Shawnee County
 Topeka KS,
 Croco Road over Turnpike
 (2-12-16E)

RECOM. FOR APPROVAL-DATE

CHIEF, BUREAU OF DESIGN
 KANSAS DEPARTMENT OF TRANSPORTATION

APPROVED - DATE

QCS

PF
 HN
 AR
 OV
 DA

3-125-16E

2-125-16E



RICE / CROCO NORTH

4N-70W

335S-70E

Core hole
(48+62)

Core #2

Core

Core hole here
(450+07)

I-70

70W-4N

Core hole here
(53+43)

Core hole here
(442+81-74)

70W-335S

core #1
(2050+17, 155 LT.
= 439+36, 64 LT.)

4N-70E

N.B. I-335

S.B. I-335

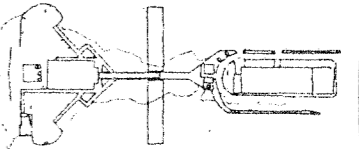
St. Street

Croco Road

Core hole here
(65+85)

Core hole here

SERVICE AREA



Turnpike

Core hole here

St. Street

WEST

12180

12185

12190

12195

12200

12205

12210

12215

12220

12225

12230

2025

2030

2035

2040

2045

3045

3050

3055

3060

3065

EA