FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
15	KANSAS		1969	1	39

PROJ. NO. 235-87I-235-1(12)58

GRADING
BRIDGES
SEEDING

STATE OF KANSAS

STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED

STATE HIGHWAY

FEDERAL AID PROJECT

SEDGWICK COUNTY
INTERSTATE 235
ACCESS CONTROL

W E S T C E

SCALE 1" = 1,000'

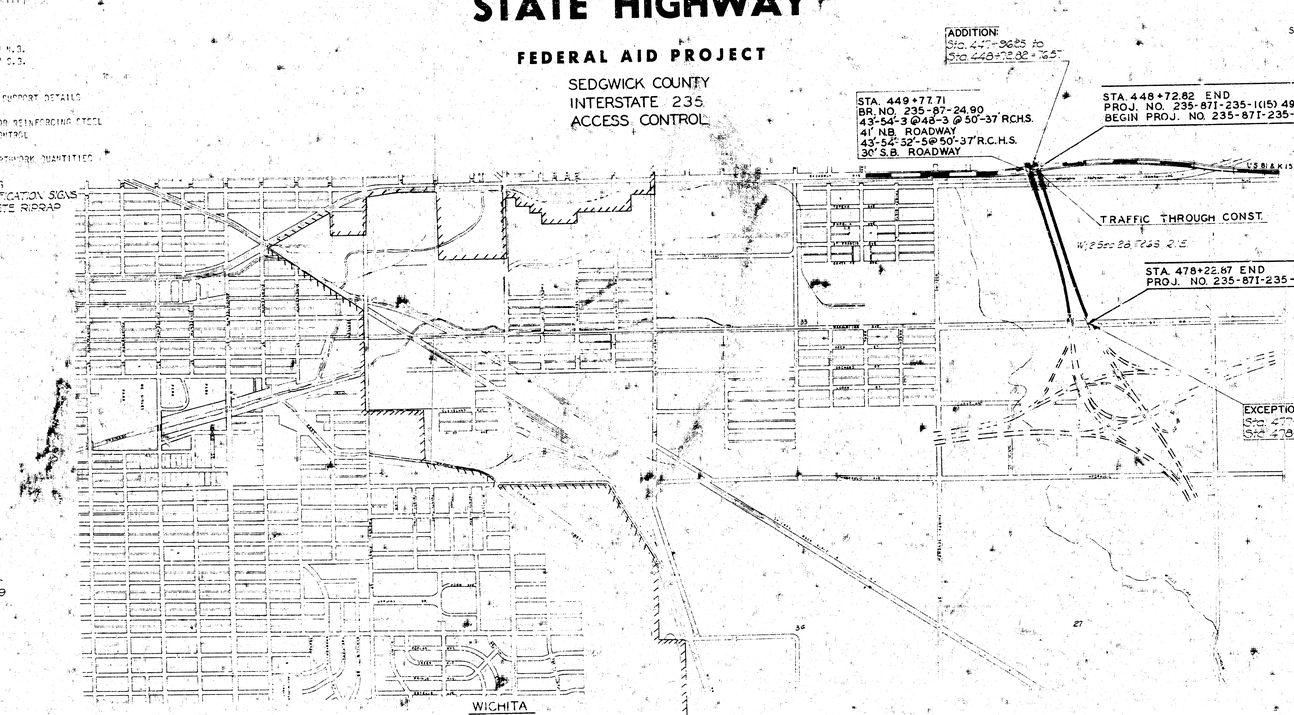
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2-3.	TYPICAL SECTIONS
4-5.	PLAN & PROFILE
6.	GEOMETRIC LAYOUT NORTH DIRECTIONAL INTERCHANGE
7.	CONTOUR GRADING SHEET
8.	CONC. DITCH INLETS TYPE I & II
9.	CONC. DITCH INLETS TYPE III
10.	MEDIAN DRAIN SCHEMATIC
11.	METAL END SECTION
12.	CONC. END SECTION
13-21.	BRIDGE NO. 235-87-24.90 N.B.
22-30.	BRIDGE NO. 235-87-24.90 S.B.
31. A	HANDRAIL DETAILS
32.	STANDARD PALE DETAILS
33.	TYPICAL LIGHT STANDARD SUPPORT DETAILS
34.	BRIDGE EXCAVATION
35.	SUPPORTS AND SPACERS FOR REINFORCING STEEL
36.	CONSTRUCTION TRAFFIC CONTROL
37.	SUMMARY OF QUANTITIES
38.	SUMMARY OF STRUCTURE EARTHWORK QUANTITIES
39.	DRAINAGE AREAS
37A.	EROSION CONTROL-SEEDING
38A	CONSTRUCTION IDENTIFICATION SIGNS
38A	REINFORCED CONCRETE RIPRAP

DESIGN DESIGNATION

ADT (1957) = 1770
ADT (1975) = 7075
DHV = 920
D = 60%
T = 5%
V = 60 MPH
C OF A = FULL

R/W & RE. obtained under Project 235-87-1235-1(10)49



CONVENTIONAL SIGNS

COUNTY LINE	RETAINING WALL		
CITY VILLAGE OR BOROUGH	BASE OR SURVEY LINE	60	
STATE OR NATIONAL LINE	LEVEE		
TOWNSHIP LINE	CULVERTS		
SECTION LINE	DROP INLETS		
GRANT LINE	TROLLEY POLE		
FENCE LINE	POWER LINE		
GUARD FENCE	TELEPHONE OR TELEGRAPH LINE		
UNFENCED PROPERTY	MARSH		
RIGHT OF WAY LINE	HEDGE		
TRAVELLED WAY	TREES		
RAILROADS	GRADE ELEVATION	1276.5	
ACCESS CONTROL	CITY LIMITS		

GROSS LENGTH OF PROJECT	2950.05	FT. (SOUTHBOUND ROADWAY)	
EXCEPTIONS	52.75	FT	
ADDITIONS	76.57	FT	
NET LENGTH OF PROJECT	2973.87	FT.	0.563 MILES
NET LENGTH OF BRIDGES	438.59	FT.	0.083 MILES
NET LENGTH OF ROAD	2535.28	FT.	0.480 MILES

PLANS PREPARED BY:	DATE: JAN 1969

WILSON & COMPANY
ENGINEERS–ARCHITECTS

RECOMMENDED FOR APPROVAL
ENGINEER OF DESIGN
STATE HIGHWAY COMMISSION OF KANSAS

RECOMMENDED FOR APPROVAL
ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

APPROVED
STATE HIGHWAY ENGINEER
STATE HIGHWAY COMMISSION OF KANSAS

APPROVED
DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

PUB. ROAD DIV. NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS	235-87-7251 (1)23.59	19	4	39

GENERAL NOTE

ENCROACHMENTS SUCH AS FENCES, BUILDINGS, TELEPHONE, TELEGRAPH AND POWER LINES SHALL BE MOVED BY THE OWNERS.

IN THE INTEREST OF PUBLIC SAFETY, ALL GAS, GASOLINE AND OIL LINES SHALL BE MOVED BEYOND THE LIMITS OF THE ROADBED BY THE OWNER UNLESS SPECIAL PROVISION FOR THEIR RETENTION HAS BEEN MADE.

ALL WATER LINES LESS THAN THREE FEET BELOW THE SURFACE OF THE PROPOSED GRADE, OR LINES NOT CONSTRUCTED OF LEAD, COPPER, CAST IRON OR WROUGHT IRON, OR LINES NOT IN GOOD CONDITION SHALL BE LOWERED, REPLACED OR MOVED BEYOND THE LIMITS OF THE ROADBED BY THE OWNERS.

ALL OTHER UNDERGROUND UTILITIES SHALL BE PLACED IN GOOD CONDITION AND ADJUSTED TO FIT THE NEW CONSTRUCTION BY THE OWNERS. ALL VALVES, METER BOXES, HYDRANTS, MANHOLES, ETC., SHALL BE MOVED OR ADJUSTED TO THE NEW CONSTRUCTION BY THE OWNERS UNLESS NOTED OTHERWISE ON THE PLANS.

AT PIT LOCATIONS ADJACENT TO THE RIGHT-OF-WAY, UTILITY POLES MAY BE SET AT THE PERMANENT LOCATIONS PRIOR TO CONSTRUCTION AS APPROVED BY THE ENGINEER, PROVIDED A MINIMUM VERTICAL CLEARANCE OF 18 FEET IS OBTAINED. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND THESE POLES TO COMPLETE THE WORK.

THE GEOLOGICAL INFORMATION SHOWN ON THESE PLANS IS FROM STUDIES MADE IN THE FIELD AND REPRESENTS THE BEST INFORMATION AVAILABLE TO THE KANSAS HIGHWAY COMMISSION.

CHANNELS SHALL BE CUT AT ALL CULVERTS (UNLESS OTHERWISE NOTED) TO FLOW LINE ELEVATION AND TO A WIDTH OF ONE FOOT OUTSIDE OF EACH OUTSIDE WALL AND WITH SLOPES 2 TO 1 PRIOR TO CONSTRUCTION OF THE CULVERT. QUANTITIES INCLUDED IN EXCAVATION TOTALS.

ALL TREES TO BE GRUBBED ARE MARKED THUS, X. Spare All Trees Not Marked.

ALL ADDITIONAL RIGHT-OF-WAY SHALL BE FURNISHED BY THE STATE (UNLESS OTHERWISE NOTED).

Grading Contractor shall complete all roadway Excavation and Embankment in the Vicinity of Bridge prior to the Construction of the Abutments and Pier #1 thru #7. Pier #8 shall be Constructed Prior to Completion of Embankment.

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / BY / DATE / NOTE BOOK / NO.

PROFILE — SURVEYED / PLOTTED / FIELD CHECKED / BY / DATE / NOTE BOOK / NO. / ELEVATIONS (CITED)

P.O.T. Sta 451+72.30
1. 5/8" Iron Bar
2. W.S.W. Spk. in P. Pole 84.02'.
3. W.N.W. Spk. in P. Pole 47.87'.
4. N. Spk. in P. Pole 4.54'.

P.O.T. Sta 452+74.35
1. Iron Bar in Fe.

Roadside Park Area
Kans. Hwy. Dept.

Frank E. Barthelme
Beg. 376' S NW Cor N31A
SW¼ Sec 28 T26S R1E
E 261' S 142' W 261'
N to Beg.

Cline V. Eyestone
N31 Ac. SW¼ Ex. ROW
Sec 28 T26S R1E
Ex. Beg. 376' S NW Cor
E 261' S 142' W 261'
N to Beg.

K.F.B.I. Inc.
W½ S½ NW¼ Sec 28
¼ Sec Line

Sta 448+72.82 END
Proj. No. 235-87(235-11(49)49 Pt. III
BEGIN Proj. No. 235-87(235-11(49)58

ADDITION
Sta. 447+66.88 to
Sta 448+72.82-85.96'

Sta 458+00 Const.
Type 1 Inlet on ℄
Install 18"x18" CRP(MP)
Broken Back
See Sh. 8610

F.L. Outlet
1323.80

Invert Elev
1330.12

Existing R/W & Access Control

Construction Limits

South bound Roadway

North bound Roadway

Sta. 449+77.71 Const.
Br. No. 235-87-24.90
43-56.3 926-1898 37 R.C.H.S.
61' Northbound Roadway
43-54.2 28-58 30-37 R.C.H.S.
30' South bound Roadway
See Sheets 13 & 22

Sta. 451+53.98
+7.50 E

18"CSP

Existing R/W & Access Control

Construction Limits

Concrete Surf.

Santa Fe R.R. & Brick Surf.

Pier #8 to Sta Ck

Pier #7 to Sta Ck

Note: All R/W ties are to ℄ Tan
Sta 448+00 to Sta 478+46.61
R/W obtained on Project
235-87-1295-1(7)49.

Shirley D. Eyestone
S30A of N61A SW¼
Ex ROW Sec 28

Large Trees to be Grubbed
Sta. 448+72.82 to Sta. 478+00
8-30"
All Trees to be Grubbed Marked thus ⊗.

See Sheet 5 For Earthmork Quantities

B.M. "164" Iron Bar
151' Rt. Sta 450+52
Elev. 1323.52

SEA LEVEL DATUM

PI+00 Elev. 1361.99

1480' V.C.
11.29.0 G 2.5

End Wearing Surface

Exist. FL.

Gas Line

Tel. Cables

+0.12% Lt.

Southbound Roadway Profile

Toe Dt. Lt.

Toe Dt. Rt.

4' Sa Dt. Lt.

+2.56%

-2.55%

-2.95%

+2.50%

PI+40 Elev. 1340.16

PI+74 Elev. 1328.64

1000' V.C.

Crown Grade Prop. Impr.

Existing Ground Line

Fl. Out 1323.80

Northbound Roadway Profile

PI+98 El. 1323.82

South bound Roadway Profile Grade

North bound Roadway Profile Grade

1330
1320
1310

7 8 9 450 1 2 3 4 455 6 7 8 9 460 1 2 3 4 465

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS	235-8(11)235-U(KDOT)	1955	5	39

K.F.B.I. Inc.
W½ 3½ NW¼ Sec 28

Cline V Eyestone
E½ Lot 2 - All Lot 5 &
E½ NW¼ Ex Ry Etlny.
Sec 28 T 26 S R 1E

Shirley D Eyestone
S30A of NG1A SW¼
Ex ROW Sec 28

¼ Sec Line

Existing R.W & Access Control

Southbound Roadway

Northbound Roadway

Construction Limits

Ctr Sec 28

FL Elev 1327.14

FL Outlet 1326.30

Sta 466+00 Const
Type III Inlet 13.3' Rt 235 N.B.@
Insta., 15° x 60' C.R.P.(N.A.C.)
See Sheet No. 9 & 10

B.M. #165 Iron Bar
255' Rt Sta 476+80
Elev 1326.90

Sta 477+84 S.B. @ Install
30" x 198' C.R.P.
2 End Sect Rotate 25° 14' Rt
124 Lf 10 Rt
D.A. = 15 Ac Q=21 c.f.s.
L.F.=0.4 H.W.=2.9'

For Shoulder Transition
Detail See Sheet No. 3

EXCEPTION
Sta 477+70.12 To
Sta 478+22.87=52.75'

Sta 478+22.87
Br. No. 35W-87-25.44
Not A Part Of This Contract

Sta. 478+22.87 END
Proj. 235-87L; 235-10(U)58

Sta 477+58.36
Br. No. 35W-87-25.42
Not A Part Of This Contract

Sta 477+23 N.B. @ Install
30" x 182' C.R.P. 2 End Sect
47' Lf 131' Rt
D.A. = 9 Ac Q=16 c.f.s.
L.F.=0.4 H.W. 2.0'

P.O.T. Sta 478+22.87
(1) Iron Bar @ Intersection of Back Tan Extended
and ¼ Section Line

107°50'

18°25'

71°44'

Curve Data 235 Northbound
Δ = 18°04'-29.46" Rt
D_c = 1°-30'-00"
L_s = 200'
L_c = 1004.99'
R_s = 3819.83
T_s = 707.62'
E_s = 48.16'
Y_s = 1.15'
x_s = 199.99'
θ_s = 1°-30'-00"
S.E. = 0.04 Ft/Ft
PT Sta 466+42.57
SC Sta 463+34.95
TS Sta 461+34.95

Curve Data 235 Southbound
Δ = 13°-07'-30.25"
D_c = 1°-30'-00"
L_s = 200'
R_s = 3819.83
T_s = 537.56
x_s = 199.99
Y_s = 1.75'
θ_s = 1°-30'-00"
TS = 472+29.78
SC = 474+29.78
PI = 477+67.34
S.E. = 0.04 Ft/Ft
Δ = 11°-37'-30.25"
C = 1°-30'-00"
R = 3819.83
T = 431.39
PI = 477+67.34
PT = 482+06.78

FAI 235 SB
FAI 235 NB
537.56
431.39
Ref. Bg. Sta 478+46.61
Δ=13°-07'-30.25"
p=0.44

PROFILE

1000' V.C.
900' V.C.
NPSD = 600'
800' V.C.
NPSD = 675'

+1.20%
+2.50%
-0.10% Rt
-0.25%
+2.50%
-0.16% Rt

+70.12
End Wearing Surface
+88.75
End Wearing Surface

Toe Ditch Lt
8' Sp Ditch Rt
No Ditch Lt
8' Sp Ditch Rt

Gas Line
Existing Ground Line
oil Lines
Southbound Roadway Profile
Northbound Roadway Profile

El. Rt 25.21
El. Rt 26.30

FL El Lt 1323.70
FL El Rt 1323.90
FL Elev Lt 1324.10
FL Elev Rt 1324.20

PI = 480
Elev 1357.97

Southbound Roadway Profile Grade
Northbound Roadway Profile Grade

4	465	6	7	8	9	470	1	2	3	4	475	6	7	8	9					
1330.62	1330.70	1331.32	1332.50	1334.21	1336.47	1338.97	1341.47	1343.97	1346.47	1348.94	1351.13	1352.98	1354.48	1355.41	1356.46					
1331.18	1331.37	1332.11	1333.35	1335.21	1337.56	1340.06	1342.56	1345.06	1347.56	1349.85	1351.74	1353.21	1354.27	1354.92	1355.16					

Exc. = 354,541 Cu. Yds. (C-20%)
Emb = 295,451 Cu. Yds
Includes 352,872 Cu Yds Exc. From Borrow Area (N) on Proj. #235-N-87-1(3)W-2553
Includes 7,190 Cu. Yds. Emb. for East Berm of U.S. 81 Bridge.
Includes 4,800 Cu. Yds. Emb. For West Berm of St. L & SF Ry Bridge SB Rdwy.
Includes 3,380 Cu. Yds. Emb. For West Berm of St. L & SF Ry Bridge NB Rdwy.

Sta 476+12.38

PLATE 1 PLAN PROFILE & P.S.& E.
JANSEN BOWING COMPANY, INC.