1 ST X

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS (3 Sheets)	2
SUMMARY (Sheet)	2-A
PLAN-PROFILE & B SHEETS	3-10
REFERENCE POINTS	11
SPECIAL SHEETS	12-23
LIGHTING	24-29A
SIGNALS	
SIGNING	30-45
CULVERT SECTIONS	46-58
BRIDGE PLANS	59-123
STANDARDS	42 Sheets
CROSS SECTIONS	1-54



KEY MAP
SHOWING LOCATION OF COUNTY

RAMP
DESIGN DESIGNATION
A.D.T. (1975) = 6890
A.D.T. (1988) = 8890
D.H.V. (1988) = 889
D=50%
T= 6%
V=40m.p.h.

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

CLAY COUNTY

LIMITED ACCESS HIGHWAY

This shall be a limited access highway between Station 79+46.3 and Station 340+10.42 Except at locations and as otherwise specifically shown on these plans, no abutter's rights or of direct access to, from, or across the highway or its right of way shall attach or belong to any property abutting on said section of highway, or to any person merely because of ownership of such abutting property. There shall be the usual right of access over any location either (1) shown on these plans as a property entrance (P.E.), field entrance (F.E.), or private underpass, or (2) where and when any such entrance, underpass, or an open public highway is being maintained by the governmental agency having authority therefor. Wherever an adjacent outer-roadway is so shown or maintained, there shall be the usual right of direct access between the abutting property and such outer-roadway to which access is not specifically prohibited by the special symbol denoting "No Right of Access" as shown on the plans, and along it to and from the nearest lane of the thruway or a public highway.

LEGEND

BEGINNING AND ENDING OF LIMITED ACCESS

LIMITED ACCESS

NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.

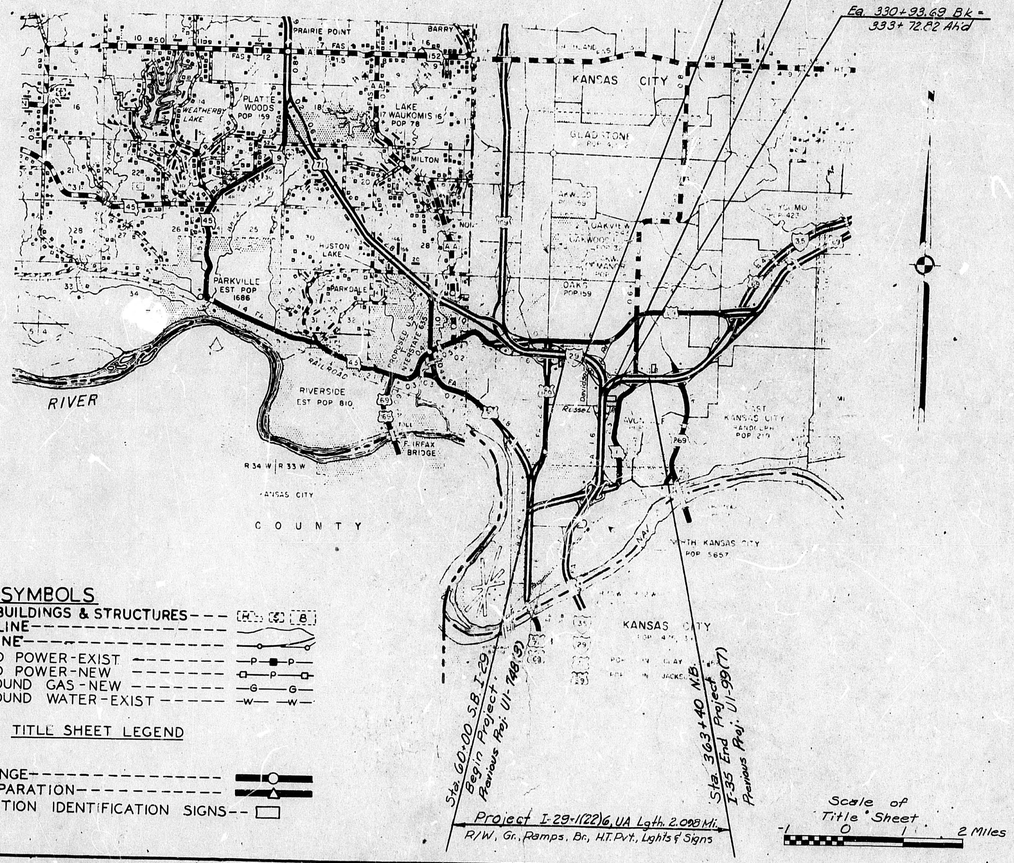
COUNTY
CLAY
STATE ROUTE NO.
I-29
PROJECT NO.
I-29-1(22)6,UA

FINAL PLANS

PC.C. 85+96.30 S.B. I-29
85+90.55 So. Ramp - 24' Rt

135+16.3 So. Ramp =
325+05.1 N.B. I-35

Ea. 330+93.69 Bk =
333+72.82 Ahd



Scale of Title Sheet
0 1 2 Miles

CONVENTIONAL SYMBOLS

STATE LINE
COUNTY LINE
CITY LIMITS
TOWNSHIP OR RANGE LINE
OTHER LAND SURVEY LINES
FENCE LINE
GUARD RAIL
PROPERTY LINE
RIGHT OF WAY LINE
RIGHT OF WAY MARKER
RAILROAD
SURVEY CENTER-LINE
CULVERT
OVERHEAD TELEPHONE NEW
OVERHEAD TELEPHONE EXIST
EXISTING BUILDINGS & STRUCTURES
GROUND LINE
GRADE LINE
OVERHEAD POWER-EXIST
OVERHEAD POWER-NEW
UNDERGROUND GAS-NEW
UNDERGROUND WATER-EXIST

TITLE SHEET LEGEND

INTERCHANGE
GRADE SEPARATION
CONSTRUCTION IDENTIFICATION SIGNS

STATE OF MISSOURI
M. J. SNIDER
NUMBER E-623

SUBMITTED BY DATE

CHIEF ENGINEER
MISSOURI STATE HIGHWAY COMMISSION
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER DATE

164

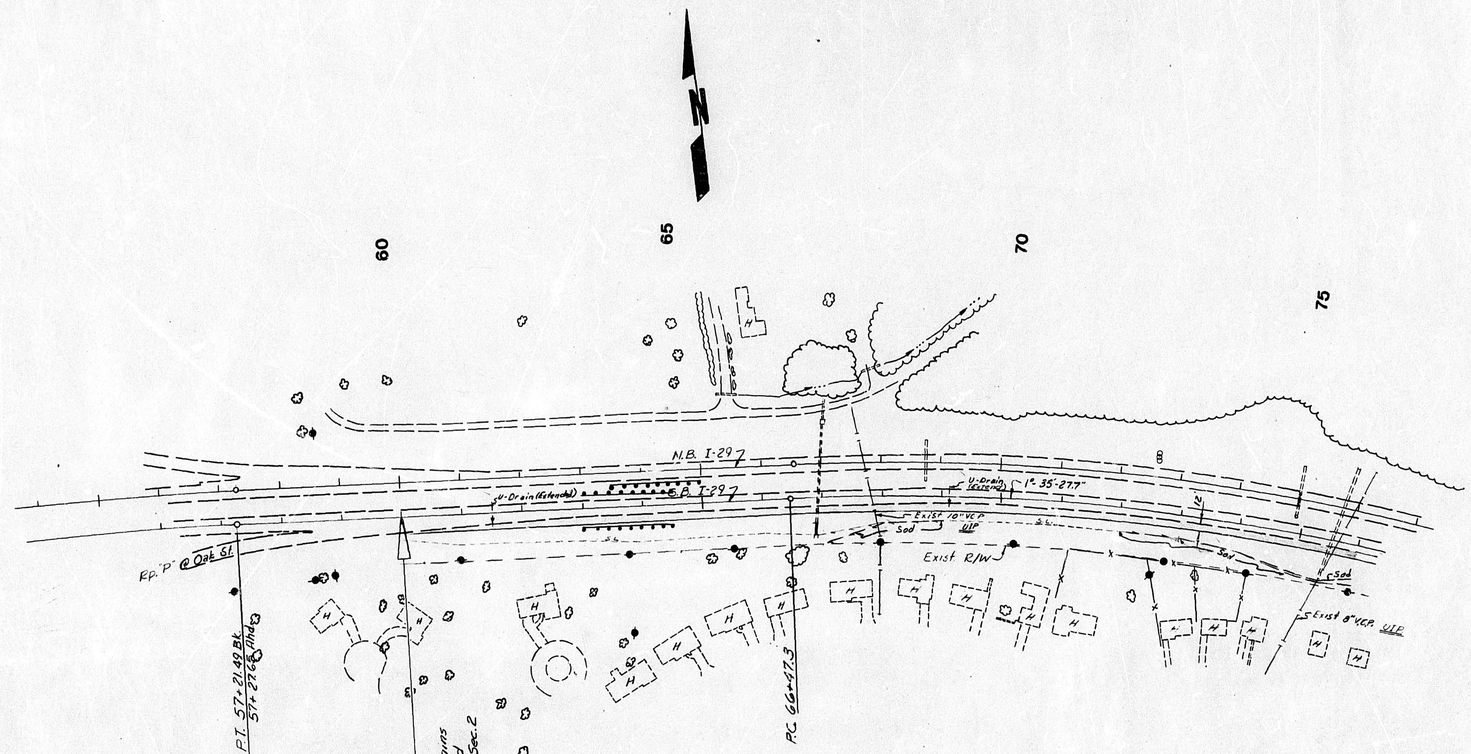
596

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-29-1(22)	3
DIST. NO.	COUNTY	ROUTE	SEC.
4	CLAY	I-29	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



Sta. 66+95 South Bound Lane - Skew 4° L/A
Removed Hdw'l & 1 Joint of Pipe. Extended
With 36" Pipe & Hdw'l.

Sta 75+30 South Bound Lane - Skew 11°20' L/A
Exist 36" RCP & Hdw'l. UIP

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC	FISCAL YEAR	SHEET NO.
5	MO	I-29-1(22)		4
DIST. NO.	COUNTY		ROUTE	SEC.
4	CLAY		I-29	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY:
	PLOTTED	
	TEMPLATE	
NOTEBOOK	AREA	
NO.	AREA CHECKED	

82+60 S B I-29 Rt
Adjusted D.I.
See Spec. Sht #6

NE¼NW¼ I-50-33

DAVIDSON ROAD

¼ ¼ Sec Line

95+50 to 99+89
Rp. "S" Rt. Built Type B
Curb & Gutter

99+53.6 Rp "S"
Bll. Type "C" Inlet
W/12" RCP.
See Spec. Sht. #5

Exist. 2' Curb & Gtr.

For details Section AA See Spec. Sht #6

99+96.8 ℄ 24' Conc. Rd

℄ Sta 99+96.8

Exist. 2' Curb & Gutter

6" Pavement

℄ E Davidson Rd

Sta 87+90 South Ramp Skew 18° R/A
Removed Hdwl. & 1 Joint of Pipe
Extended W/ 5" Pipe & Hdwl.
Built 12" Pipe Culvt W/ Hdwl. & D.I.
DA - 2 Ac of 0.6 Land
Sta 91+20 South Ramp - Skew 7°30 R/A
Built 15" Pipe Culvt W/ Hdwl.
DA - 1 Ac. of 0.6 Land

Sta. 98+40 South Ramp - Skewed 7°30' R/A
Built 18" Pipe Culvt W/ Hdwl. Lt & D.I. Rt.
D.A - 2 Ac. of 0.6 Land

SW¼NW¼ I-50-33

SE¼NW¼ I-50-33

6 NORTHGATE

Catholic Diocese of
Kansas City - St Joseph
Tract No. (2)
1.26 Ac. New R/W
26.61 Ac. Remaining

Sta. 98+61.96
Built 68.57' C.M.P.

Curb & Gutter

Iron Pin

NE¼SW¼ I-50-33

Sta. 99+12.3 S Rp.
Built (43'-68'-43') Conc.
Conc. Voided Slab Bridge

99+96 S. Rp. Sk 36°-39' L/A
Built 15" Pipe with Hdwl.

99+99.4 S. Rp. Sk 20°-16' L/A
Built 30" Pipe with Hdwl.

Sta. 98+83.5 Built
8'x9' C.M.P.
Sk 60°40' Lt.

Rp "S"

0.995 Davidson Trans. Easement

Curb & Gutter

Exist R/W

Sta. 99+37.55 N.B. Lane
Widened Exist. 37'-5¾", 42'-5¾"
37'-5¾" Conc. Deck Girder Br.

Sta. 21+10.96 ℄ North Ramp
8'x10'1' C.M.P.

Sta. 21+48.57 N. Rp. Built
(65'-85'-60'-45') Cont. Conc.
Box Girder Br.

To Others

Proposed Fill

10" Sewer

M.H. #1

M.H. #2

M.H. #3

M.H. #4

M.H. #5

M.H. #6

M.H. #7

M.H. #8

Sewer

Exist. Ramp

South Ramp

Pt 21+92.2

Pt 21+48.57

Pt 98+22.8

Pt 98+61.96

Pt 99+37.55

Pt 99+96.8

Pt 99+99.4

Pt 98+83.5

Pt 99+12.3

Pt 99+53.6

Pt 95+50

Pt 87+90

Pt 91+20

Pt 98+40

Pt 82+60

Pt 86+59.73

Pt 90+00.4

Pt 95+48.7

①	②	③
P.I. 86+59.73	P.I. 90+00.4	P.I. 95+48.7
Δ - 5°45'	Δ - 12°28'31"	Δ - 15°15'
D - 4°-09'-32	D - 2°18.36	D - 2°45
R - 1377.53	R - 2484.79'	R - 2083.43'
L - 138.25	L - 540.99'	L - 554.53'
T - 69.18	T - 271.59'	T - 278.91'
S.E. 0.04 "/Ft.	SE 0.04 "/Ft.	SE 0.04 "/Ft.
		L. 150'

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO & SEC	FISCAL YEAR	SHEET NO.
5	MO	I-29-1(22)		5
DIST. NO.	COUNTY		ROUTE	SEC.
4	CLAY		I-29	

FINAL PLANS

FINAL SURVEY NOTEBOOK NO.	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	AREAS	
	AREAS CHECKED	

4 NORTHGATE

4 A NORTHGATE
Joseph A. Bruening et. al. (1)
8.85 Ac. New R/W
0.50 Ac. Perm. Esm't.
44.63 Ac. Remaining

7A NORTHGATE

8 NORTHGATE

9 NORTHGATE
Arlyle Land Co. et. al.
Tract No. 5
2.92 Ac. New R/W
0.34 Ac. Perm. Esmt
27.20 Ac. Remaining

Sta. 19+85 N. Ramp
Built 2(11'x 10') Conc. Culv't.
Sk. 45° R/A

Perm. Drainage Esmt.

Drainage Esm't.

Exist. R/W 2

Exist. R/W

Sec. Line 7

23+31.3 N. Ramp
195.6' R/W

Curve 1
Curve 2
Curve 3

42nd St. No.

DAVIDSON RD.

42nd St. Terr. No.

SCHOOL

NE¼ SW¼ 1-50-33

SE¼ SW¼ 1-50-33

NW¼ SE¼ 1-50-33

SW¼ SE¼ 1-50-33

Sta. 101+72 So. Rp. Sk. 8° R/A Built 18" Pipe W/12 Hdw'ls DA. 2 ac. of OG Land
Sta. 110+00 So. Rp. Sk. 15° R/A Built 24" Pipe W/12 Hdw'ls DA. (illegible) of OG Land
Sta. 121+98 So. Rp. Extended Exist. 2(11'x10') Conc. Box Culv't. - Rock Protection (Surface Grouted) 3' Thick 2:1 Side Slope
Sta. 122+35 So. Rp. 93' Lt. & Blt. Type E 3'x2' D.I. Connected to 2(11'x10') Box with 12" Pipe.
Sta. 126+70 So. Rp. Sk. 48° L/A Removed hdw'l & 1 jt. pipe Extended w/15" pipe & hdw'l.

Sta. 17+92 No. Rp. Blt. 48" Pipe W/e Hdw'ls DA. 57 Ac. of OG Land

Sta. 112+00.14 So. Rp.
Built (76'-95'-83'-79'-63')
(5'-72'-90'-90'-90'-72')
Cont. Conc. Box Girder Br.

Sta. 111+61.5 ℄ South Ramp
Built 8'x 64' C.M.P.

Sta. 120+67.65 ℄ South Ramp
8'x 60' C.M.P.

Note: Areas noted N.C. were not cleared or grubbed

Note: Kansas City P&L Co.
207D New Structure at higher elevation
209D Structure removed
214D Structure elevated at same location
218D Not disturbed

Note:
Utilities in interchange area to be Serviced from utility maintenance R. ad at Davidson Road or through The double (11'x 10') Concrete Box Culvert at Sta. 121+98 So. Rp.

RAMP "U"

(13)	(14)	(15)
P.I. 15+09.0	P.I. 8+36.6	P.I. 4+05.0
Δ 18°-13'-30"	Δ 18°-55'	Δ 2°-18'
D 4°	D 6°	D 1°
T 229.8'	T 159.1'	T 115.0'
L 455.6'	L 315.3'	L 230.0'
R 1432.39'	R 954.93'	R 5729.58'
SE 0.05'/ft.	SE 0.07'/ft.	

NORTH. RAMP

(9)
P.I. 20+68.7
Δ 91°-26'-30"
D 5°-30'
R 1041.74'
L 1662.6'
T 1068.7'
S.E 0.06 ft.

(4)	(5)
P.I. 122+75.23	P.I. 128+68.71
Δ 126°-08'-10"	Δ 30°-05'-30"
D 8°-00'	D 6°-00'
R 716.20'	R 954.93'
L 1576.71'	L 501.53'
T 1409.76'	L: 15C
SE 0.08'/ft.	T 256.69
	SE. 0.07'/ft.

Sta. 5+09 Rp. "U" Sk. 11°-30' R/A Extended w/18" pipe & Hdw'l.
Sta. 6+19.4 Rp. "U" Sk. 7° R/A Extended w/30" pipe & Hdw'l.
Sta. 10+00 Rp "U" Blt. 3'x2' Type "E" D.I. & 18" Pipe w/ Hdw'l.
Sta. 11+00.8 Rp "U" Blt. 3'x 3' M.H. & 15" Pipe
Sta. 11+30 Rp "U" Blt Cantilever Type Retaining Wall.

123

570

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO	I-29-1(122)		6
DIST. NO.	COUNTY		ROUTE	SEC.
4	CLAY		I-29	

FINAL PLANS

FINAL SURVEY	SURVEYED	BY
NOTEBOOK	SUPPLIED	
NO.	COMPLETE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	BY
NOTEBOOK	SUPPLIED	
NO.	COMPLETE	
	AREAS CHECKED	

174

③
P.I. 7+79.1
Δ - 10°
D - 2°15'29"
R - 2534.77'
L - 442.9'
T - 222.0'
S.E. -

⑨
PI 20+68.7
Δ - 91°26'30"
D - 5°30'
R - 1041.74'
L - 1662.6'
T - 1068.7'
S.E. - 0.06 ft/ft

4 NORTHGATE

4-A NORTHGATE
Joseph A Bruening et al

E ¼ Cor. Sec. 1, T50N, R 33W corner is 0.22' E of ℄ Antioch Rd & 154.86' Lt. of Sta. 335+85.61 Ramp G & 445.27' Lt of Sta 333+84.76 Ramp H.

335+88.64 Ramp G = 299+15.0 Antioch Rd

333+86.76 Ramp H = 302+05.41 Antioch Rd

Eq. 330+93.69 Bk = 333+72.02 Ah

Sta 133+41 South Ramp Skew 32° L/A Extended With 15" Pipe & Hdwl.

⑩
P.I. 327+89.5
Δ - 2°-40'-06"
D - 1°30'
R - 3819.83
L - 177.89
T - 88.9

⑪
P.I. 330+51.9
Δ - 6°-47'
D - 1°53'-36"
R - 3376.33
T - 179.35
L - 358.3

⑫
P.I. 328+41.8
Δ - 3°-54'-48"
D - 3°59'32"
R - 1435.39
T - 49.03
L - 98.01

NE¼ SE¼ 1-50-33

SE¼ SE¼ 1-50-33

NW¼ SE¼ 1-50-33

R 33 W
R 32 W

North Paine

NORTHGATE
Arlyle Land Co Inc
Tract No ⑤

④
PI 122+75.23
Δ - 176°08'10"
D - 8°00'
R - 716.20'
L - 1376.71'
T - 1409.76'
S.E. 0.08 ft/ft

⑤
PI 128+68.71
Δ - 30°05'30"
D - 6°00'
R - 954.93'
L - 501.53'
T - 256.69'
S.E. - 0.07 ft/ft

⑥
P.I. 133+15.4
Δ - 10°16'
D - 2°32'54"
R - 2247.63'
L - 402.7'
T - 201.8'

⑦
P.I. 326+50.25
Δ - 14°22'12"
D - 5°00'
R - 1146.28
L - 287.4'
T - 144.85'

RIGHT OF WAY

OWNER	TRACT No	LOT No	SUB DIVISION	NEW R/W	TEMP. ESMT.	REMAIN - ING
Gerald & Phyllis Gamm DW & C.E Hammel	⑥	15 Part	Brookwood Extension	1493 sf.	4950 sf.	8998 sf.
	⑦	16 Part	Brookwood Extension	608 sf.	—	7811 sf.
Lorene M. McMickle	⑧	16 & 17 Part	Brookwood Extension	157 sf.	—	9968 sf.

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & REC.	SHT. NO.
5	MO.	I-29-1(22)	7
DIST. NO.	COUNTY	ROUTE NO.	
4	CLAY	I-29	

FINAL PLANS

N

SE¼NE¼SEC 1
T50N R33W

SW¼NW¼ SEC 6
T50N R32W

NE¼SE¼SEC 1
T50N R33W

NW¼SW¼ SEC 6
T50N R32W

RTE 1 TR (ANTIOCH RD)

RTE I-35

44th ST

43rd ST

1/4 Sec Line

EQU: Sta 330+93.69 Bk
Rt L 133 = Sta 333+72.82 Ah.
(Stamped in inside EP)

Sta 299+18.7 Rte 1
Sta 335+88.64 Ramp G
Sta 20+08.25 Ramp 3

Sta 302+100 Rte 1
Sta 333+86.76 Ramp H
Sta 0+00.0 Ramp 4

Sta 336+77.7 & Med. I-35
= Sta 300+60.6 & Rte 1 TR

RAMP G

RAMP H

RAMP 3
CURVE DATA
PI. 11+80.9
Δ 7°13'30" Rt
D 2°00'
T 180.9'
L 361.3'
R 2864.79'
SE 0.03'/ft

RAMP 4
CURVE DATA
PI. 6+29.0
Δ 4°30' Rt
D 1°30'
T 150.0'
L 300.0
R 3812.72'
S.E. 0.03'/ft

Nose Sta 341+44 ℄ Med.
Built 18" Pipe Exten. Lt.

Nose Sta 343+64.5 ℄ Med
Built 24" Pipe Extension
Lt & Rt.
DA. 11 Ac.

Nose Sta 13+85.5 (Q1) ℄
51'11" Sta 13+106.2 ℄ Med
2 Nose

End Taper 341+71.4

Exist. L.A. R/W

Outlet Ditch

PT 13+61.3

PC 344+60.7

Guardrail for Overhead Truss

PC 10+00.0 (51'11")
Sta 346+30.2 ℄ Med

Paved OD

Paved Outlet Ditch

Ramp 3

Ramp 4

80°30'
50 R

87°11.10"

79°59'30"

Guardrail

Guardrail Boxes

0°30'

Ditch Block

GR for Cant. Trus

Sta 11+30.8 ℄ Ramp 4 = Sta 347+95.5 ℄ Med

Sta 347+32.5 ℄ Med
Built 18" Pipe Exten Rt
No Extension Lt
DA 3 Ac.

Sta 351+03.3 ℄ Med
Built 18" Pipe Exten Rt
Built Std. 80.43 Drop Inlet
18" Pipe Culv.
No Extension Lt
D.A. 3 Ac.

Nose Sta 6+77.7 (18'4") ℄
51'11" Sta 343+20.2 ℄ Med

PT 7+79.0 (G3 Rt)
Sta 344+56 ℄ Med
PC 344+60.7

337+64.8
R/W 191.9

339+75
R/W 214'

342+26
R/W 144'

Lot 4
Midland Heights

0.43 Ac.

Sta 337+42.5 N.B. Lane
Built 12" Pipe Extend to
D.I. Bulton Prev. Proj.

Bridge Note:
336+12.22 to 337+39.72
Built Exist. Br. N.B.L I-35
32'0", 62'-2", 32'-8" Conc. Deck Girders
Skew 2°44' L.A.
Bridge No. L-653R

Sta 356+85 ℄ Med
Built 15" Pipe Extens. Rt.

Sta 357+70 ℄ Med
Built 7'x7' R.C.B. Extension
Lt. & Rt.
DA. 320 Ac. @ Q.G.L

End Paving 1+72.5

CHOUTEAU TRFWY RAMPS

Exist. LA R/W

Guardrail

24' PCC PAV'T

4' FBD (Paved)

MATCH LINE

R33W Range Line R32W

295 300 305 325 330 335 340 345 350 355 360

Scale 1" = 100'

RTE I-35, RTE 1 TR
INTERCHANGE

CONSTRUCTION DETAILS

END PROJ. I-29-1(22)
End Paving at Sta
Sta 363+40
3 South & 264 East of
Federal Improvement ends a/o
part of N.W. Cor. Sec 6
T50N, R32W.

FINAL SURVEY
ORIGINAL SURVEY
SURVEY PLOTTED
SURVEY COMPUTED
SURVEY CHECKED
NOTE BOOK
PAGE
NO.

13

526

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	I-29-1(22)	8
DIST. NO. 4	COUNTY CLAY	ROUTE I-29 SEC.

FINAL PLANS

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / PROFILE CHECKED / NO. / B. M.'S NOTED / STRUCTURE ADJUSTMENT (CY-YD.) — BY — DATE: 9-66 / 10-25-72

910 900 890 880 870

80 1 2 3 4 5 6 7 8 9 90 1 2 3 4 5 6 7 8 9 100 1 2 3 4 5 6 7 8 9 110

to 59+00

Balance 59+00 to 87+29.8
C.I.A Exc. 2,847 C.Y.
Embankment 12,372 C.Y.

894+00 58.129 NGSE
891+28.8 Sa. Rp.

El. Lt. 897.0

El. Lt. 881.0

-0.65%

El. 878.9
El. 878.0

87+29.8

300' V.C.
M.O. 1.08'
K 104

Balance 87+29.8 to 99+12
C.I.A Exc. 29,658 C.Y. (Use 14,950 C.Y. in Bal. 100+ to 112 So. Rp.
C.I.C Exc. 1,631 C.Y. 1,439 C.Y. in Bal. M+ to 21+ No. Rp.
Embankment 2,181 C.Y.

99+12

A-1762

Davidson

El. Lt. 873.0

El. Lt. 868.5

El. Et. 862.0

+2.825%

El. Rt. 876.0

El. Lt. 866.0

Balance 100+70 to 112+00
C.I.A Exc. 31,750 C.Y.
Embankment 17,230 C.Y. (2,050 C.Y. from 87+ to 99+ So. Rp.)

El. Lt. 868.0

to 112+00

920 910 900 890 880 870 860 850 840 830 820 810

to 100+70

+22.85

+9.66

+9.85 & NB I-29

+9.72

A-1762

680' V.C.
M.O. 6.14'
K 94
SSD 362'

+9.13 & SB I-35

+9.55 & NB I-35

SOUTH RAMP

600' V.C.
M.O. 6.98'
K 65

129+54.6 Sa. Rp. = NGSE
339+33.1 NB I-35

El. Rt. 877.0

+14.31%

El. Lt. 852.0
El. Rt. 849.1

185.59
1.30

2' Rock Fill

Balance 120+29 to 123+84.2

Balance 123+84.2 Sa. Rp. to 336+12.2 NB I-35
C.I.A Exc. 3,800 C.Y. (176 C.Y. Rt. & Lt. Sl/dr. 330+50 to 333+20)
Embankment 18,787 C.Y. (18,784 C.Y. from 332+ to 351+ NB I-35)
Rock Fill 853 C.Y. (Contr. to furnish)

C.I.A Exc. 664 C.Y.
Embankment 79,426 C.Y. (Contr. to furnish 70,971 C.Y.) (8,482 C.Y. from 337+ to 351+ NB I-35)
Rock Fill 5,448 C.Y. (Contr. to furnish)

BENCH MARKS — USGS DATUM
- on N.W. Cor. of D.I., & Med. 74+80 I-29 Elev. 890.26
  R.R. Spike in 24" Shagbark Hickory 100' Rt. 88+23 Sa. Rp. Elev. 906.83
- on S.E. Cor., Top of Lt. End Post Bt. No. 1, Br. A-1762, 291.72 Sa. Rp. Elev. 884.23
- on Lt. curb, Bt. #1, Br. A-1763 112+00 Sa. Rp. Elev. 908.11
- on S.E. Cor. Rt. Hdwl. Br. L-606R 121+85 Sa. Rp. Elev. 822.35

NOTE:
No direct payment will be made for overhaul on this project.

SOUTH RAMP

176

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	I-29-1(22)	9
DIST. NO. 4	COUNTY CLAY	ROUTE I-29 SEC.

FINAL PLANS

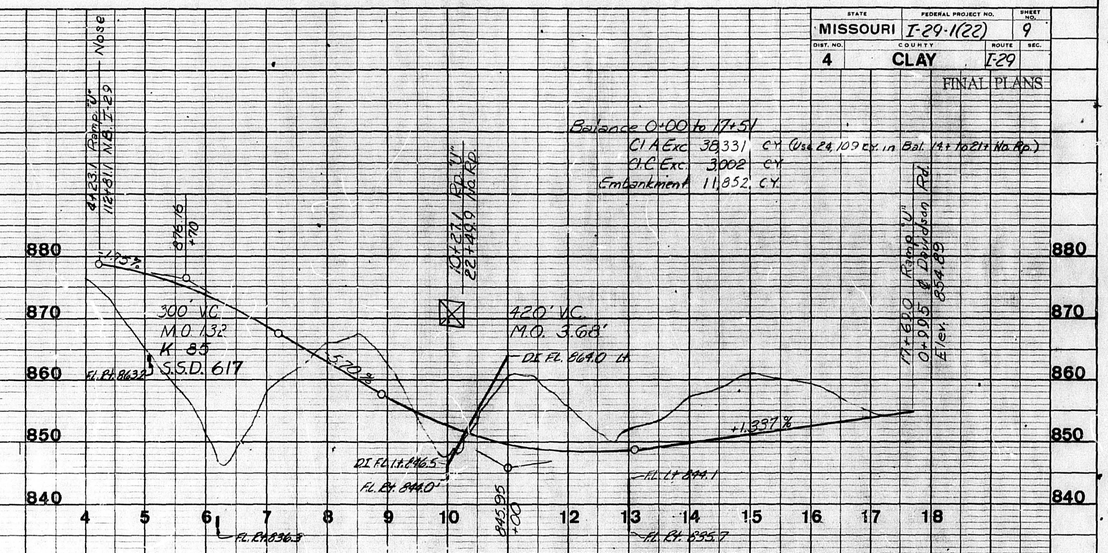
PROFILE — SURVEYED — DRAWN — CHECKED — NOTE BOOK — NO. — B. M.'S NOTED — ENGINEERING CONTROL — BY — DATE

BENCH MARKS ~ U.S.G.S. DATUM

Top Bolt on top Conc. Wall W. End Bridge 38' Rt. of 99+46 N.B.L. I-29 Elev. 882.17

Fl on S.E. Cor., Top of Ret. Wall Lt. 11+15 Rp. "U". Elev. 849.86

Balance 95+00 to 99+36 NB I-29
Cl A Exc 149 C.Y.
Embankment 2667 C.Y. (Contr. to furnish 2548 C.Y.)

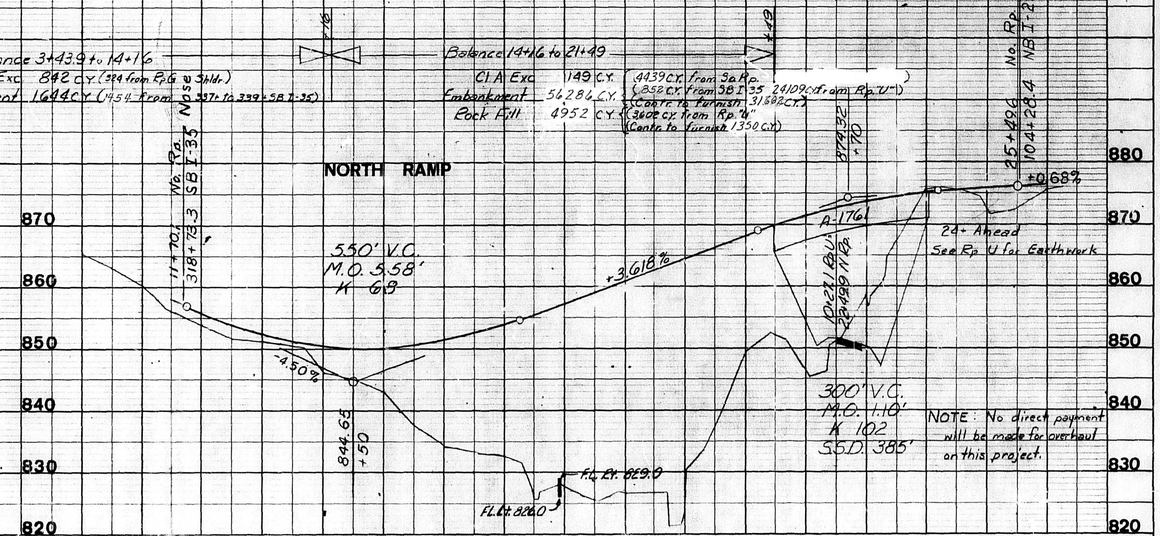


RAMP "U"

Balance 0+00 to 17+51
Cl A Exc 38331 C.Y. (Use 24,109 C.Y. in Bal. 14+16 to 21+49 No. Rp.)
Cl C Exc 3002 C.Y.
Embankment 11,852 C.Y.

Balance 3+43.9 to 14+16
Cl A Exc 842 C.Y. (394 from Rp G Nose SB Hdr.)
Embankment 1644 C.Y. (1454 from 337+ to 339+ SB I-35)

Balance 14+16 to 21+49
Cl A Exc 149 C.Y. (1439 C.Y. from Sa Rp. (358 C.Y. from SB I-35 24109 C.Y. from Rp. "U"))
Embankment 56286 C.Y. (Contr. to furnish 31802 C.Y.)
Rock Fill 4952 C.Y. (3602 C.Y. from Rp. "A" (Contr. to furnish 1350 C.Y.))



BENCH MARKS ~ U.S.G.S. DATUM

R.R. Spike in 36" Sycamore 140' Lt. 16+90 No. Rp. Elev. 827.17

Top Bolt on Top Conc. Wall N. End Bridge 33' Lt. of 99+46 N.B.L. I-29 Elev. 882.17

□ on curb Rt. of Bl. "5, Bl. A-1761 Elev. 876.16+

NOTE: No direct payment will be made for overhaul on this project.

596

STATE	FEDERAL PROJECT NO.	SHEET NO.
MISSOURI	I-29-1(22)	10
DIST. NO. 4	COUNTY CLAY	ROUT. I-29

FINAL PLANS

PROFILE — SURVEYED — PLOTTED — CURVES CHECKED — B. M.'S NOTED — STRUCTURE NOTATIONS CHKD. — NOTE BOOK — NO. — ST. MO. — UNIT 1-2-32

Balance 337+70 to 339+34.6 SB I-35
C.I.A Exc. 2306 c.y.
(Use 1954 c.y. in Bal. 31 to 19+No Rp.)
(& 1852 c.y. in Bal. 14+ to 21+ No Rp.)

337+70 SB I-35

339+34.6

19+05.21 & Ramp 3 (23' Lt. Sta. 298+20.1 & Rte. 1 Rp.)
Elev. 888.88

PI 19+18.58
Elev. 900.73

Balance 339+34.6 to 345+40 SB I-35
C.I.A Exc. 3,179 c.y.
Embankment 2,649 c.y.

Balance 345+40 to 360+00 SB I-35
C.I.A Exc. 1,397 c.y.
Embankment 1,145 c.y.

Note: Sta. 13+30.54 & Ramp 5 - Sta. 345+06.36 & Med. I-35 PG Elev. 893.07 (Elev. @ Nose Pt. 893.10)

PI 19+05.02
Elev. 887.57

75' V.C.
K=12

+1.56%

-4.90%

+3.30%

460' V.C.
K=59
S.S.D.=287'

FL Rt. 895.4
FL Lt. 894.0

Exist Ground Line

Profile Exist E.P. 39' Lt. & Med.

Normal Crown (See Typical Section Sht.)

15+30

150' S.E. Transition

13+30

FL Rt. 879.8

930' Cross Slope Transition (0.02'/ft. to 0.03'/ft.)

100

0.02'/ft. X-Slope

RAMP 3

337+39.7 NB I-35

Balance 337+39.7 to 351+26.4 NB I-35
C.I.A Exc. 29,524 c.y. (Use 18741 c.y. in Bal. 1231 to 3361 NB I-35 & 9482 c.y. in Bal. 1+20+89 to 123+84.50 Rt.)
Embankment 1,082 c.y.

Balance 351+26.4 to 363+40 NB I-35
C.I.A Exc. 2,749 c.y.
Embankment 2,291 c.y.

Exist Ground Line

Dr. 19+97 & Ramp 4 (23' Lt. Sta. 302+05.9 & Rte. 1 Rp.)
Elev. 885.58

PI 4+50
Elev. 900.71

Note: Sta. 6+17.7 & Ramp 4 - Sta. 343+20.5 & Med. I-35 PG Elev. 886.42 (Elev. @ Nose Pt. 886.9)

+4.40%

-5.41%

40' V.C.

-2.0%

440' V.C.
K=59
S.S.D.=260'

Profile Outside Edge of Prop. 12' Auxiliary Lane.

PI 0+46.62
Elev. 885.14

RAMP 4

Normal Crown (See Typical Section)

4+04

150' S.E. Transition

5+54

0.03'/ft. Full Superelevation Transition (0.02'/ft. to 0.05'/ft.)

7+79

181' Cross Slope

0.02'/ft. Cross Slope

13+32

BENCH MARKS
☐ on Ret. Wall & Med., Br. #1-6538
337+35 Rte. I-35 Elev. 911.28
☐ on S.W. Cor. of D.I., & Median
351+08 Rte. I-35 Elev. 866.43
☐ on N.W. Cor. of D.I. & Median
356+85 Rte. I-35 Elev. 850.17

NOTE: No direct payment for over haul on this proj.

178