

CALLAWAY COUNTY

INCLUDED: [Significant feature(s) of bridge given in boldface]
 [Field inventoried bridge indicated by asterisk]

Inv. No.	MHTD	Bridge Name	Description
CALL01	F 485R	Auxvasse Creek Bridge	2- 80' riveted Warren deck truss 1921 Riley and Bailey Const. Co.
CALL02	019001.7	Bridge	1- 20' steel stringer 1910 Stupp Brothers B&I Company
CALL03	019002.2	Auxvasse Branch Bridge	(replaced)
CALL04	020000.1	Auxvasse Branch Bridge	1- 60' pinned Pratt bedstead c1905
CALL05	027001.4	Four Mile Creek Bridge	3- 25' steel stringer 1905 Illinois Bridge & Iron Co.
*CALL06	043001.0	Boyd Bridge Number 2	1- 50' pinned Pratt bedstead 1913 Missouri Bridge and Iron Co.
CALL07	057000.2	Kennon Bridge	1- 40' riveted Warren pony truss 1914 county work force
CALL08	071001.5	Bridge	1- 30' steel stringer 1910 Stupp Bros. / county force
CALL09	071002.2	Dunlap Bridge	1- 76' riveted Warren pony truss 1913 Stupp Brothers B&I Company
CALL10	094000.8	Stinson Creek Bridge	(replaced)
CALL11	103000.2	Bridge	2- 15' steel stringer 1910 Stupp Brothers B&I Company
CALL12	109000.5	Booker Bridge	1- 25' steel stringer 1912 Stupp Brothers B&I Company
CALL13	125000.3	Owl Creek Bridge	(replaced)
CALL14	151000.1	Dry Fork Bridge	(replaced)
CALL15	155500.2	West Seventh Street Bridge	1- 67' concrete open spandrel arch c1910
CALL16	155500.6	East Tenth Street Bridge	1- 25' concrete filled spandrel arch c1925
CALL17	155500.7	East Eighth Street Bridge	1- 21' concrete filled spandrel arch c1925
*CALL18	201001.3	Cedar Creek Bridge	1-112' pinned Pratt through truss 1910 Stupp Brothers B&I Company
*CALL19	211002.6	Dry Creek Bridge	1- 66' pinned Pratt pony truss c1910
*CALL20	237002.2	Murphy Bridge	1- 75' pinned Pratt pony truss 1911 Stupp Brothers B&I Company
*CALL21	250000.7	Wainscott Creek Bridge	1- 48' pinned Pratt pony truss 1910 Stupp Brothers B&I Company
CALL22	253000.7	Little Auxvasse Ck. Bridge	1- 68' pinned Pratt pony truss c1910
*CALL23	256000.3	Little Auxvasse Ck. Bridge	(replaced)
CALL24	265001.9	Bridge	1- 21' steel stringer 1907 Illinois Bridge and Iron Co.

CALLAWAY COUNTY

INCLUDED (cont.):

CALL25	304000.1	Youngs Creek Bridge	1- 46'	1912	pinned Pratt pony truss Stupp Brothers B&I Company
*CALL26	316002.2	Bryan Bridge	1-180'	1912	pin Pennsylvania through truss Missouri Bridge & Iron Co.
*CALL27	327000.2	Logan Creek Bridge	1- 50'	1911	riveted Pratt/Warren pony truss Stupp Brothers B&I (prob.)
*CALL28	340002.1	Berry's Ford Bridge	1-153'	1884	pinned Pratt through truss Missouri Valley B&I Company
CALL29	362001.9	Maddox Branch Bridge	1- 65'	1910	riveted Pratt half-hip pony truss Stupp Brothers B&I Company (replaced)
CALL30	364000.7	Muir Bridge			
CALL31	364001.9	Houfs Creek Bridge	1- 23'	1910	steel stringer Stupp Brothers B&I Company (replaced)
*CALL32	375001.8	Vandiver Bridge	1- 30'	1913	steel stinger MO B&I / county work force
CALL33	387000.5	Buckner Bridge	1- 28'	1913	steel stringer MO B&I / county work force
CALL34	395000.8	McPheeters Bridge	1- 30'	1910	steel stringer Stupp Bros. / county force
CALL35	406001.8	Hunt Branch Bridge	1- 45'	1911	riveted Pratt pony truss Stupp Brothers B&I Company
CALL36	411000.8	Deardorff Bridge	1- 80'	1896	pinned Pratt pony truss J.S. McCleary and Sons
*CALL37	443002.3	Loutre River Bridge	1- 76'	1905	pinned Pratt pony truss Illinois Bridge & Iron Co.
*CALL38	444001.6	Loutre River Bridge	1- 23'	1913	steel stringer MO B&I / county work force (replaced)
CALL39	444002.5	Covington Bridge	1- 30'	1910	steel stringer Stupp Brothers B&I Company (replaced)
CALL40	454002.4	Loutre River Bridge	2- 50'	1922	riveted Pratt pony truss Riley & Bailey Constr. Co.
CALL41	465000.9	Bridge	1-100'	1922	riveted Pratt through truss Pope Construction Co.
CALL42	482000.6	Crows Fork Creek Bridge			
CALL43	521000.6	Middle River Bridge			
CALL44	521004.7	Little Auxvasse Ck. Bridge			

EXCLUDED:

Pratt pony truss

G 416R G 488R 058002.0

Warren pony truss

T 562 090001.9 200000.2 235001.2 258000.2 283005.6 389000.5403000.2
 443001.1 443001.9 482001.7 488001.5 489002.6

CALLAWAY COUNTY

EXCLUDED (cont.):

Lattice bedstead

047000.5 406000.2

Steel stringer

012001.3	018002.4	031001.0	040000.0	045002.2	068000.1	131000.2
131000.3	136000.4	182001.1	186000.9	277000.9	286000.1	294000.2376001.0
381000.9	395002.2	396000.7	427002.1	483001.1	497002.2	

SUMMARY:

	Primary	Secondary	Urban	Other	Total
Included	1	31	3	0	35
Excluded	3	36	0	0	39
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	4	67	3	0	74

Auxvasse Creek Bridge

CALL01

GENERAL DATA

structure no.:	F 485R	city/town:	3.3 miles south of Auxvasse
county:	Callaway	feature inters.:	Auxvasse Creek
		cadastral grid:	S2, T48N, R9W
		highway route:	U.S. Highway 54
		highway distr.:	5
		current owner:	Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure:	steel, 6-panel, rigid-connected Warren deck truss, with steel stringer approach spans		
substructure:	concrete abutments, wingwalls and piers		
span number:	2	condition:	good
span length:	80.0'	alterations:	approach spans added, 1954
total length:	283.0'	floor/decking :	concrete deck over steel stringers
roadway width:	28.0'	other features:	steel guardrails

HISTORICAL DATA

erection date:	1921
erection cost:	\$12,410.82
designer:	Missouri State Highway Department
fabricator :	unknown
contractor:	Riley and Bailey Construction Company, St. Louis MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number F 485R; Missouri Highway and Transportation Department, Primary Bridge Files, located at Bridge Division, MHTD, Jefferson City MO; Report of the State Highway Board of Missouri : 1919-20, page 130; Third Biennial Report of the Missouri State Highway Commission : 1921-22, page 146; Callaway County Bridge Record (see entry for Vandiver Bridge); Callaway County Court Record, Book 32: page 195 (5 October 1914), located at Callaway County Courthouse, Fulton MO.
sign. rating:	55
evaluation:	NRHP possibly eligible (early example of uncommon structural type, designed by the MSHD during its formative years)

Inventoried by: Clayton B. Fraser 29 January 1992

Bridge

CALL02

GENERAL DATA

structure no.:	019001.7	city/town:	9.2 miles west of Auxvasse
county:	Callaway	feature inters.:	unnamed stream
		cadastral grid:	S29/32, T49N, R10W
		highway route:	County Road 19
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer	condition:	fair
substructure:	unknown	alterations:	unknown
span number:	1	floor/decking :	unknown
span length:	20.0'	other features:	unknown
total length:	21.0'		
roadway width:	12.5'		

HISTORICAL DATA

erection date:	1909-10
erection cost:	\$119.85
designer:	Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator :	Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor:	Stupp Brothers Bridge and Iron Company, St. Louis MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 019001.7; Callaway County Court Record, Book 31: page 504 (1 February 1910), located at Callaway County Courthouse, Fulton MO.
sign. rating:	34
evaluation:	NRHP non-eligible (technologically undistinguished, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Auxvasse Branch Bridge

CALL04

GENERAL DATA

structure no.:	020000.1	city/town:	7.8 miles west of Auxvasse
county:	Callaway	feature inters.:	Auxvasse branch
		cadastral grid:	S28, T49N, R10W
		highway route:	County Road 20
		highway dlstr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 3-panel, pin-connected Pratt truss-leg bedstead		
substructure:	concrete abutments and wingwalls		
span number:	1	condition:	poor
span length:	60.0'	alterations:	pier added under one panel point
total length:	60.0'	floor/decking :	timber deck
roadway width:	12.9'	other features:	steel angle guardrails

HISTORICAL DATA

erection date:	c1905
erection cost:	unknown
designer:	unknown
fabricator :	unknown
contractor:	unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 020000.1.

sign. rating:	22
evaluation:	NRHP non-eligible (inadequately documented, poorly preserved example of relatively common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Four Mile Branch Bridge

CALL05

GENERAL DATA

structure no.: 027001.4	city/town: 9.3 miles west of Auxvasse
county: Callaway	feature inters.: Four Mile Branch
	cadastral grid: S8, T49N, R10W
	highway route: County Road 27
	highway distr.: 5
	current owner: Callaway County

STRUCTURAL DATA

superstructure: steel stringer	
substructure: unknown	
span number: 3	condition: fair
span length: 25.0'	alterations: unknown
total length: 46.0'	floor/decking : unknown
roadway width: 14.5'	other features: unknown

HISTORICAL DATA

erection date: 1905
erection cost: \$284.00 (contract amount)
designer: Illinois Bridge and Iron Company, Sullivan IL
fabricator : Illinois Bridge and Iron Company, Sullivan IL
contractor: Illinois Bridge and Iron Company, Sullivan IL

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 027001.4; Callaway County Court Record, Book 31: page 142 (21 October 1904), page 162 (7 February 1905), located at Callaway County Courthouse, Fulton MO.

sign. rating: 33
evaluation: NRHP non-eligible (technologically undistinguished, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Boyd Bridge Number 2

CALL06

GENERAL DATA

structure no.:	043001.0	city/town:	6.2 miles west of Auxvasse
county:	Callaway	feature inters.:	Bynum Creek
		cadastral grid:	S10, T49N, R10W
		highway route:	County Road 43
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 3-panel, pin-connected Pratt truss-leg bedstead		
substructure:	concrete abutments and wingwalls		
span number:	1	condition:	fair
span length:	50.0'	alterations:	unknown
total length:	52.0'	floor/decking :	timber deck
roadway width:	10.7'	other features:	steel angle guardrails

HISTORICAL DATA

erection date:	1913
erection cost:	\$390.00 (contract amount)
designer:	Missouri Bridge and Iron Company, St. Louis MO
fabricator :	Missouri Bridge and Iron Company, St. Louis MO; Cambria Steel Works, Pittsburgh PA
contractor :	Missouri Bridge and Iron Company, St. Louis MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 043001.0; Callaway County Court Record, Book 27: page 85 (4 February 1913); Book 32: page 39 (11 May 1912), page 91 (8 February 1913), located at the Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser and Sheila Bricher-Wade, 6 November 1990.
sign. rating:	42
evaluation:	NRHP non-eligible (typically configured example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Kennon Bridge

CALL07

GENERAL DATA

structure no.:	057000.2	city/town:	4.4 miles west of Auxvasse
county:	Callaway	feature inters.:	Leeper Branch
		cadastral grid:	S24/25, T49N, R10W
		highway route:	County Road 57
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 3-panel, rigid-connected Warren pony truss		
substructure:	concrete abutments and wingwalls		
span number:	1	condition:	fair
span length:	40.0'	alterations:	unknown
total length:	43.0'	floor/decking :	concrete deck over steel stringers
roadway width:	12.6'	other features:	steel angle guardrails

HISTORICAL DATA

erection date:	1914
erection cost:	\$881.74
designer:	Miller and Borcharding, St. Louis MO
fabricator :	Miller and Borcharding, St. Louis MO
contractor:	county work force
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 071001.5; Callaway County Bridge Record, Kennon Bridge, located at Callaway County Courthouse, Fulton MO.
sign. rating:	34
evaluation:	NRHP non-eligible (typical, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Bridge

CALL08

GENERAL DATA

structure no.:	071001.5	city/town:	6.3 miles north of Fulton
county:	Callaway	feature inters.:	branch of Richland Creek
		cadastral grid:	S13, T48N, R10W
		highway route:	County Road 71
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer	condition:	fair
substructure:	unknown	alterations:	unknown
span number:	1	floor/decking :	unknown
span length:	30.0'	other features:	unknown
total length :	30.0'		
roadway width:	13.0'		

HISTORICAL DATA

erection date: 1910
erection cost: \$174.82
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor: county work force

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 071001.5; Callaway County Court Record, Book 31: page 570 (4 January 1911), located at Callaway County Courthouse, Fulton MO.

sign. rating: 34
evaluation: NRHP non-eligible (typical, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Dunlap Bridge

CALL09

GENERAL DATA

structure no.:	071002.2	city/town:	5.7 miles north of Fulton
county:	Callaway	feature inters.:	Richland Creek
		cadastral grid:	S24, T48N, R10W
		highway route:	County Road 71
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure: steel, 5-panel, rigid-connected Warren pony truss
substructure: concrete abutments and wingwalls

span number:	1	condition:	fair
span length:	76.0'	alterations:	unknown
total length:	77.0'	floor/decking :	timber deck
roadway width:	11.8'	other features:	steel angle guardrails; endpost-mounted builder's plate

HISTORICAL DATA

erection date: 1912-13
erection cost: \$1486.96
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor: Stupp Brothers Bridge and Iron Company, St. Louis MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 071002.2; Callaway County Court Record, Book 32: page 39 (11 May 1912), page 85 (4 February 1913), located at Callaway County Courthouse, Fulton MO.

sign. rating: 39
evaluation: NRHP non-eligible (typically configured example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Bridge

CALL11

GENERAL DATA

structure no.:	103000.2	city/town:	9.0 miles northwest of Fulton
county:	Callaway	feature inters.:	branch of Millers Creek
		cadastral grid:	S19/20, T48N, R10W
		highway route:	County Road 103
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure: steel stringer
substructure: unknown

span number:	2	condition:	fair
span length:	15.0'	alterations:	one span added
total length:	29.0'	floor/decking :	unknown
roadway width:	14.0'	other features:	unknown

HISTORICAL DATA

erection date: 1909-10
erection cost: \$46.00
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor: Stupp Brothers Bridge and Iron Company, St. Louis MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 103000.2; Callaway County Court Record, Book 31: page 504 (1 February 1910), located at Callaway County Courthouse, Fulton MO.

sign. rating: 29
evaluation: NRHP non-eligible (undistinguished, small-scale example of common structural type, substantially altered)

inventoried by: Clayton B. Fraser 29 January 1992

Booker Bridge

CALL12

GENERAL DATA

structure no.:	109000.5	city/town:	2.5 miles north of Millersburg
county:	Callaway	feature inters.:	Sally Branch
		cadastral grid:	S15/22, T48N, R11W
		highway route:	County Road 109
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer		
substructure:	unknown		
span number:	1	condition:	fair
span length:	25.0'	alterations:	unknown
total length:	26.0'	floor/decking :	unknown
roadway width:	11.0'	other features:	unknown

HISTORICAL DATA

erection date:	1912		
erection cost:	unknown		
designer:	Stupp Brothers Bridge and Iron Company, St. Louis MO		
fabricator :	Stupp Brothers Bridge and Iron Company, St. Louis MO		
contractor :	Stupp Brothers Bridge and Iron Company, St. Louis MO		
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 109000.5.		
sign. rating:	34		
evaluation:	NRHP non-eligible (typical, small-scale example of common structural type)		

inventoried by: Clayton B. Fraser 29 January 1992

West Seventh Street Bridge

CALL15

GENERAL DATA

structure no.:	155500.2	city/town:	Fulton
county:	Callaway	feature inters.:	Stinson Creek
		highway route:	West Seventh Street
		highway distr.:	5
		current owner:	City of Fulton

STRUCTURAL DATA

superstructure:	concrete, two-rib, open spandrel arch		
substructure:	concrete abutments and wingwalls		
span number:	1	condition:	fair
span length:	67.0'	alterations:	roadway widened, sidewalk cantilevered from one side, guardrails replaced, 1977
total length:	68.0'	floor/decking :	concrete deck
roadway width:	25.3'	other features:	Armco guardrails; cantilevered sidewalk on one side

HISTORICAL DATA

erection date:	c1930
erection cost:	unknown
designer:	unknown
fabricator :	none
contractor:	unknown
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 155500.2.
sign. rating:	20
evaluation:	NRHP non-eligible (undistinguished example of relatively uncommon structural type, substantially altered)

inventoried by: Clayton B. Fraser 29 January 1992

East Tenth Street Bridge

CALL16

GENERAL DATA

structure no.: 155500.6 city/town: Fulton
county: Callaway feature inters.: Smith branch of Stinson Creek
highway route: East Tenth Street
highway distr.: 5
current owner: City of Fulton

STRUCTURAL DATA

superstructure: concrete filled spandrel arch
substructure: concrete abutments and wingwalls

span number: 1 condition: fair
span length: 25.0' alterations: roadway widened, one guardrail replaced,
total length: 31.0' sidewalk cantilevered from one side, 1976
roadway width: 31.8' floor/decking : concrete deck
other features: cantilevered sidewalk on one side

HISTORICAL DATA

erection date: c1925
erection cost: unknown
designer: unknown
fabricator : none
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory
and Appraisal: Structure Number 155500.6.

sign. rating: 11
evaluation: NRHP non-eligible (undistinguished example of relatively common struc-
tural type, substantially altered)

inventoried by: Clayton B. Fraser 29 January 1992

East Eighth Street Bridge

CALL17

GENERAL DATA

structure no.: 155500.7 city/town: Fulton
county: Callaway feature inters.: Smith Branch of Stinson Creek
highway route: East Eighth Street
highway distr.: 5
current owner: City of Fulton

STRUCTURAL DATA

superstructure: concrete filled-spandrel arch
substructure: concrete abutments and wingwalls

span number: 1 condition: fair
span length: 21.0' alterations: roadway widened, sidewalks cantilevered from
total length: 24.0' sides, 1973
roadway width: 30.0' floor/decking : concrete deck
other features: cantilevered sidewalks; steel pipe guardrails

HISTORICAL DATA

erection date: c1925
erection cost: unknown
designer: unknown
fabricator : none
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory
and Appraisal: Structure Number 155500.7.

sign. rating: 11
evaluation: NRHP non-eligible (poorly preserved example of relatively common struc-
tural type)

inventoried by: Clayton B. Fraser 29 January 1992

Cedar Creek Bridge

CALL18

GENERAL DATA

structure no.:	201001.3	city/town:	6.8 miles northwest of Holts Summit
county:	Callaway	feature inters.:	Cedar Creek
		cadastral grid:	S12, T45N, R12W
		highway route:	County Road 201
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 7-panel, pin-connected Pratt through truss		
substructure:	concrete-filled steel cylinder piers; concrete abutments and wingwalls		
span number:	1	condition:	fair
span length:	112.0'	alterations:	unknown
total length:	162.0'	floor/decking :	timber deck over steel stringers
roadway width:	12.8'	other features:	upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 looped rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 looped rectangular eyebars; counter: 1 round eyerod with turnbuckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles; portal builder's plate: 1909 / Stupp Bros's Bridge & Iron Co / St. Louis MO

HISTORICAL DATA

erection date:	1909-10
erection cost:	\$2460.00 (contract amount)
designer:	Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator :	Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor :	Stupp Brothers Bridge and Iron Company, St. Louis MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 201001.3; Callaway County Court Record, Book 31: page 471 (9 June 1909), page 504 (1 February 1910), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.
sign. rating:	43
evaluation:	NRHP non-eligible (typically configured example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Dry Creek Bridge

CALL19

GENERAL DATA

structure no.:	211002.6	city/town:	6.8 miles east of Cedar City
county:	Callaway	feature inters.:	Dry Creek
		cadastral grid:	S21, T44N, R10W
		highway route:	County Road 211
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 4-panel, pin-connected Pratt pony truss		
substructure:	concrete-filled steel cylinder piers; steel pile bent abutments		
span number:	1	condition:	fair
span length:	66.0'	alterations:	none
total length:	84.0'	floor/decking :	timber deck
roadway width:	12.1'	other features:	steel angle guardrails

HISTORICAL DATA

erection date:	c1910
erection cost:	unknown
designer:	unknown
fabricator :	unknown
contractor:	unknown
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 211002.6.
sign. rating:	30
evaluation:	NRHP non-eligible (typically configured, inadequately documented example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Murphy Bridge

CALL20

GENERAL DATA

structure no.:	237002.2	city/town:	5.4 miles northeast of Holts Summit
county:	Callaway	feature inters.:	Hillers Creek
		cadastral grid:	S15, T45N, R10W
		highway route:	County Road 237
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure: steel, 5-panel, pin-connected Pratt pony truss, with steel stringer approach spans

substructure: concrete abutments; concrete-filled steel cylinder piers; steel pile bent piers at approach spans

span number:	1	condition:	fair
span length:	75.0'	alterations:	none
total length:	112.0'	floor/decking :	timber deck over steel stringers
roadway width:	12.8'	other features:	upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 looped rectangular eyebars; counter: 1 square eyebar with turn-buckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles; endpost-mounted builder's plate: Built by the Stupp Bro's Bridge & Iron Co St. Louis MO 1910

HISTORICAL DATA

erection date: 1911
erection cost: \$1687.00 (contract amount)
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor : Stupp Brothers Bridge and Iron Company, St. Louis MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 237002.2; Callaway County Court Record, Book 31: page 564 (4 January 1911), page 608 (5 September 1911); Book 32: page 15 (9 February 1912) - located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.

sign. rating: 46
evaluation: NRHP non-eligible (typically configured, well-preserved example of main-stay structural type, built by Missouri's most prolific bridge builder)

Inventoried by: Clayton B. Fraser 29 January 1992

Wainscott Creek Bridge

CALL21

GENERAL DATA

structure no.:	250000.7	city/town:	9.8 miles east of Cedar City
county:	Callaway	feature inters.:	Wainscott Creek
		cadastral grid:	S13, T44N, R10W
		highway route:	County Road 250
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 3-panel, pin-connected Pratt pony truss, with steel stringer approach spans		
substructure:	concrete-filled steel cylinder piers; concrete abutments and wingwalls		
span number:	1	condition:	poor
span length:	48.0'	alterations:	bridge partially collapsed
total length:	81.0'	floor/decking :	timber deck
roadway width:	11.6'	other features:	steel angle guardrails

HISTORICAL DATA

erection date:	1909-10
erection cost:	\$1000.00
designer:	Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator :	Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor :	Stupp Brothers Bridge and Iron Company, St. Louis MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 250000.7; Callaway County Court Record, Book 31: page 504 (1 February 1910), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.
sign. rating:	39
evaluation:	NRHP non-eligible (typically configured example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Little Auxvasse Creek Bridge

CALL22

GENERAL DATA

structure no.:	253000.7	city/town:	3.9 miles southwest of Mokane
county:	Callaway	feature inters.:	Little Auxvasse Creek
		cadastral grid:	S34, T45N, R9W
		highway route:	County Road 253
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans		
substructure:	concrete-filled steel cylinder piers		
span number:	1	condition:	fair
span length:	68.0'	alterations:	unknown
total length:	98.0'	floor/decking :	timber deck
roadway width:	13.9'	other features:	steel angle guardrails

HISTORICAL DATA

erection date:	c1910
erection cost:	unknown
designer:	unknown
fabricator :	unknown
contractor:	unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 253000.7.

sign. rating:	28
evaluation:	NRHP non-eligible (typically configured, inadequately documented example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Bridge

CALL24

GENERAL DATA

structure no.: 265001.9 city/town: 7.2 miles southwest of Mokane
county: Callaway feature inters.: branch of Gallons Creek
cadastral grid: S16/21, T45N, R9W
highway route: County Road 265
highway distr.: 5
current owner: Callaway County

STRUCTURAL DATA

superstructure: steel stringer
substructure: unknown

span number: 1 condition: fair
span length: 21.0' alterations: unknown
total length: 22.0' floor/decking : unknown
roadway width: 13.0' other features: unknown

HISTORICAL DATA

erection date: 1907
erection cost: \$2800.00 (multiple-bridge contract)
designer: Illinois Bridge and Iron Company, Sullivan IL
fabricator : Illinois Bridge and Iron Company, Sullivan IL
contractor: Illinois Bridge and Iron Company, Sullivan IL

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 265001.9; Callaway County Court Record, Book 31: page 330 (3 March 1907), located at Callaway County Courthouse, Fulton MO.

sign. rating: 32
evaluation: NRHP non-eligible (undistinguished, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Youngs Creek Bridge

CALL25

GENERAL DATA

structure no.:	304000.1	city/town:	3.2 miles south of Fulton
county:	Callaway	feature inters.:	Youngs Creek
		cadastral grid:	S31, T47N, R9W
		highway route:	County Road 304
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt pony truss
substructure: concrete abutments and wingwalls

span number:	1	condition:	fair
span length:	46.0'	alterations:	unknown
total length:	47.0'	floor/decking :	timber deck
roadway width:	12.9'	other features:	steel angle guardrails

HISTORICAL DATA

erection date: 1912
erection cost: \$780.00 (engineer's estimate)
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor: Stupp Brothers Bridge and Iron Company, St. Louis MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 304000.1; Callaway County Court Record, Book 32: page 14 (9 February 1912), page 53 (10 August 1912), located at Callaway County Courthouse, Fulton MO.

sign. rating: 34
evaluation: NRHP non-eligible (typically configured example of common structural type)

Inventoried by: Clayton B. Fraser 29 January 1992

Bryan Bridge

CALL26

GENERAL DATA

structure no.:	316002.2	city/town:	1.2 miles northwest of Steedman
county:	Callaway	feature inters.:	Auxvasse Creek
		cadastral grid:	S32, T46N, R8W
		highway route:	County Road 316
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure: steel, 10-panel, pin-connected Pennsylvania through truss, with steel-stringer approach spans
substructure: concrete abutments and wingwalls; concrete-filled steel cylinder piers

span number:	1	condition:	fair
span length:	180.0'	alterations:	none
total length:	232.0'	floor/decking :	asphalt over corrugated steel deck, with steel stringers
roadway width:	16.0'	other features:	upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: 2 square eye-bars with turnbuckles; lateral bracing: round rod with threaded ends; strut: 2 angles, braced; portal strut; A-frame; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles; portal builder's plate: 1912 / BUILT BY MISSOURI BRIDGE & IRON CO.

HISTORICAL DATA

erection date: 1912
erection cost: \$5875.00 (contract amount)
designer: Missouri Bridge and Iron Company, St. Louis MO
fabricator : Missouri Bridge and Iron Company, St. Louis MO;
Cambria Steel Company, Pittsburgh PA
contractor : Missouri Bridge and Iron Company, St. Louis MO
references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 316002.2; Callaway County Court Record, Book 32: page 65 (10 October 1912), page 135 (7 October 1913), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.
sign. rating: 65
evaluation: NRHP possibly eligible (well-preserved example of uncommon truss type)

inventoried by: Clayton B. Fraser 29 January 1992

Logan Creek Bridge

CALL27

GENERAL DATA

structure no.:	327000.2	city/town:	6.7 miles northeast of Mokane
county:	Callaway	feature inters.:	Logan Creek
		cadastral grid:	S31, T46N, R7W
		highway route:	County Road 327
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 3-panel, rigid-connected Warren/Pratt pony truss, with steel stringer approach spans		
substructure:	concrete abutments and wingwalls; concrete-filled steel cylinder piers; steel pile bent piers under approach spans		
span number:	1	condition:	fair
span length:	50.0'	alterations:	deep I-beam added to north abutment for height
total length:	134.0'	floor/decking :	timber deck over steel stringers
roadway width:	12.0'	other features:	upper chord and inclined end post: wide flange; lower chord: 2 angles with batten plates; vertical: 1 channel; diagonal: 1 channel; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles

HISTORICAL DATA

erection date:	1911
erection cost:	unknown
designer:	Stupp Brothers Bridge and Iron Company, St. Louis MO (probable)
fabricator :	Stupp Brothers Bridge and Iron Company, St. Louis MO (probable)
contractor:	Stupp Brothers Bridge and Iron Company, St. Louis MO (probable)
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 327000.2; Callaway County Court Record, Book 31, page 520 (8 June 1910), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.
sign. rating:	54
evaluation:	NRHP possibly eligible (well-preserved, early example of uncommon, indigenous structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Berry's Ford Bridge

CALL28

GENERAL DATA

structure no.:	340002.1	city/town:	8.5 miles southeast of Fulton
county:	Callaway	feature inters.:	Auxvasse Creek
		cadastral grid:	S17, T46N, R8W
		highway route:	County Road 340
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure: wrought iron, 8-panel, pin-connected Pratt through truss, with steel stringer approach spans
substructure: stone abutments and piers; steel pile bent piers under approach spans

span number:	1	condition:	fair
span length:	153.0'	alterations:	none
total length:	249.0'	floor/decking :	timber deck over steel stringers
roadway width:	13.5'	other features:	upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing (2 round eyebars at the hip); diagonal: 2 punched rectangular eyebars; counter: 1 round eyebar with turnbuckle; lateral bracing: round eyebar with turnbuckle; strut: 4 angles with double lacing; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles

HISTORICAL DATA

erection date: 1860/84
erection cost: \$2600.00 (superstructure cost)
designer: Missouri Valley Bridge and Iron Company, Leavenworth KS
fabricator : Missouri Valley Bridge and Iron Company, Leavenworth KS
contractor : Missouri Valley Bridge and Iron Company, Leavenworth KS

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 340002.1; Callaway County Court Record, Book O: page 163 (23 June 1859), page 218 (19 August 1859), page 321 (25 November 1859), page 339 (21 December 1859), page 536 (22 May 1860), page 752 (19 December 1860), page 768 (23 January 1861); Book W: page 127 (5 May 1882), page 316 (3 July 1883), page 329 (9 August 1883), page 512 (10 October 1884), page 549 (5 January 1885); Book 27: page 448 (7 June 1897); Book 31: page 526 (5 May 1909), page 570 (9 June 1909); Callaway County Court Record 32: page 85 (4 February 1913), page 91 (8 February 1913), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.

sign. rating: 56
evaluation: NRHP possibly eligible (well-preserved, early example of mainstay structural type, built on the abutments of earlier covered bridge)

inventoried by: Clayton B. Fraser 29 January 1992

Maddox Branch Bridge

CALL29

GENERAL DATA

structure no.:	362001.9	city/town:	5.8 miles northeast of Fulton
county:	Callaway	feature inters.:	Maddox Branch
		cadastral grid:	S23/26, T48N, R9W
		highway route:	County Road 362
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure: steel, 4-panel, rigid-connected Pratt half-hip pony truss
substructure: unknown

span number:	1	condition:	fair
span length:	65.0'	alterations:	unknown
total length:	67.0'	floor/decking :	timber deck
roadway width:	12.8'	other features:	steel angle guardrails; endpost-mounted builder's plate

HISTORICAL DATA

erection date: 1910
erection cost: unknown
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor : Stupp Brothers Bridge and Iron Company, St. Louis MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 362001.9.

sign. rating: 42
evaluation: NRHP non-eligible (undistinguished example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Houfs Creek Bridge

CALL31

GENERAL DATA

structure no.:	364001.9	city/town:	5.0 miles north of Fulton
county:	Callaway	feature inters.:	Houfs Creek
		cadastral grid:	S22/27, T48N, R9W
		highway route:	County Road 364
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer		
substructure:	unknown		
span number:	1	condition:	fair
span length:	23.0'	alterations:	unknown
total length:	24.0'	floor/decking :	unknown
roadway width:	12.4'	other features:	unknown

HISTORICAL DATA

erection date:	1910		
erection cost:	\$139.50		
designer:	Stupp Brothers Bridge and Iron Company, St. Louis MO		
fabricator :	Stupp Brothers Bridge and Iron Company, St. Louis MO		
contractor:	Stupp Brothers Bridge and Iron Company, St. Louis MO		
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 364001.9; Callaway County Court Record, Book 31: page 504 (1 February 1911), located at Callaway County Courthouse, Fulton MO.		
sign. rating:	34		
evaluation:	NRHP non-eligible (undistinguished, small-scale example of common structural type)		

inventoried by: Clayton B. Fraser 29 January 1992

Buckner Bridge

CALL33

GENERAL DATA

structure no.:	387000.5	city/town:	1.6 miles north of Auxvasse
county:	Callaway	feature inters.:	Jesse Creek
		cadastral grid:	S11, T49N, R9W
		highway route:	County Road 387
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer		
substructure:	unknown		
span number:	1	condition:	fair
span length:	30.0'	alterations:	unknown
total length:	32.0'	floor/decking :	unknown
roadway width:	13.3'	other features:	unknown

HISTORICAL DATA

erection date: 1913
erection cost: \$582.29
designer: Missouri Bridge and Iron Company, St. Louis MO
fabricator : Missouri Bridge and Iron Company, St. Louis MO
contractor: county work force

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 387000.5; Callaway County Bridge Record, see entry for "Buckner Bridge"; Callaway County Court Record, Book 32: page 112 (8 May 1913), located at Callaway County Court-house, Fulton MO.

sign. rating: 34
evaluation: NRHP non-eligible (undistinguished, small-scale example of common structural type)

Inventoried by: Clayton B. Fraser 29 January 1992

McPheeters Bridge

CALL34

GENERAL DATA

structure no.:	395000.8	city/town:	4.4 miles northeast of Auxvasse
county:	Callaway	feature inters.:	Harrison Creek
		cadastral grid:	S9, T49N, R8W
		highway route:	County Road 395
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer	condition:	fair
substructure:	unknown	alterations:	unknown
span number:	1	floor/decking :	unknown
span length:	28.0'	other features:	unknown
total length:	31.0'		
roadway width:	13.0'		

HISTORICAL DATA

erection date: 1913
erection cost: \$390.00 (superstructure cost)
designer: Missouri Bridge and Iron Company, St. Louis MO
fabricator : Missouri Bridge and Iron Company, St. Louis MO
contractor : county work force

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 395000.8; Callaway County Court Record, Book 32: page 91 (8 February 1913), located at Callaway County Courthouse, Fulton MO.

sign. rating: 34
evaluation: NRHP non-eligible (undistinguished, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Hunt Branch Bridge

CALL35

GENERAL DATA

structure no.:	406001.8	city/town:	4.9 miles southeast of Auxvasse
county:	Callaway	feature inters.:	Hunt Branch
		cadastral grid:	S33, T49N, R8W
		highway route:	County Road 406
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer	condition:	fair
substructure:	unknown	alterations:	unknown
span number:	1	floor/decking :	unknown
span length:	30.0'	other features:	unknown
total length:	32.0'		
roadway width:	13.0'		

HISTORICAL DATA

erection date: 1910
erection cost: \$196.48
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor: county work force

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 406001.8; Callaway County Court Record, Book 31: page 570 (4 January 1911), located at Callaway County Courthouse, Fulton MO.

sign. rating: 34
evaluation: NRHP non-eligible (undistinguished, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Deardorff Bridge

CALL36

GENERAL DATA

structure no.:	411000.8	city/town:	7.8 miles southeast of Auxvasse
county:	Callaway	feature inters.:	tributary of Whetstone Creek
		cadastral grid:	S2, T48N, R8W
		highway route:	County Road 411
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure: steel, 3-panel, rigid-connected Pratt pony truss
substructure: unknown

span number:	1	condition:	fair
span length:	45.0'	alterations:	unknown
total length:	46.0'	floor/decking :	timber deck
roadway width:	10.5'	:ther features:	steel angle guardrails, endpost-mounted builder's plate

HISTORICAL DATA

erection date: 1911
erection cost: \$280.19
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor: Stupp Brothers Bridge and Iron Company, St. Louis MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 411000.8; Callaway County Court Record, Book 32: page 15 (9 February 1912), located at Callaway County Courthouse, Fulton MO.

sign. rating: 36
evaluation: NRHP non-eligible (typically configured, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Loutre River Bridge

CALL37

GENERAL DATA

structure no.:	443002.3	city/town:	7.3 miles north of Williamsburg
county:	Callaway	feature inters.:	Loutre River
		cadastral grid:	S14, T49N, R7W
		highway route:	County Road 443
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 5-panel, pin-connected Pratt pony truss, with rigid-connected lattice truss approach span		
substructure:	concrete-filled steel cylinder piers; concrete abutments and wingwalls		
span number:	1	condition:	fair
span length:	80.0'	alterations:	lattice truss approach added, 1911
total length:	125.0'	floor/decking :	timber deck over steel stringers
roadway width:	10.3'	other features:	upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 looped rectangular eyebars; counter: 1 round eyerod with turnbuckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, U-bolted to lower chord pin; endpost-mounted builder's plate: BUILT BY J.S. McCLEARY & SON

HISTORICAL DATA

erection date:	1896
erection cost:	\$1035.00
designer:	unknown
fabricator :	Jones and Laughlin Steel Company, Pittsburgh PA
contractor :	J.S. McCleary and Son, Montgomery City MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 443002.3; Callaway County Bridge Record: page 444; Callaway County Court Record, Book Z: page 521 (4 February 1895); Book 27: page 153 (6 February 1896), page 210 (4 May 1896), page 224 (7 May 1896); Book 31: page 585 (8 March 1911), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser and Sheila Bricher-Wade, 6 November 1990.
sign. rating:	48
evaluation:	NRHP possibly eligible (typically configured, well-documented example of mainstay structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Loutre River Bridge

CALL38

GENERAL DATA

structure no.:	444001.6	city/town:	7.4 miles north of Williamsburg
county:	Callaway	feature inters.:	Loutre River
		cadastral grid:	S14/15, T49N, R7W
		highway route:	County Road 444
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 4-panel, pin-connected Pratt pony truss, with steel-stringer approach spans		
substructure:	steel pile bent abutments and piers with timber back- and wingwalls		
span number:	1	condition:	fair
span length:	76.0'	alterations:	deck and stringers replaced
total length:	107.0'	floor/decking :	concrete deck over steel stringers
roadway width:	12.9'	other features:	upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 punched rectangular eyebars; counter: 1 looped round eyebar with turnbuckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angle

HISTORICAL DATA

erection date:	1905
erection cost:	\$1249.00 (contract amount)
designer:	Illinois Bridge and Iron Company, Sullivan IL
fabricator :	Illinois Bridge and Iron Company, Sullivan IL; Illinois Steel Company, Chicago IL
contractor :	Illinois Bridge and Iron Company, Sullivan IL
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 444001.6; Callaway County Court Record, Book 31: page 202 (6 July 1905), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser and Sheila Bricher-Wade, 6 November 1990.
sign. rating:	38
evaluation:	NRHP non-eligible (typically configured example of mainstay structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Covington Bridge

CALL39

GENERAL DATA

structure no.:	444002.5	city/town:	6.5 miles north of Williamsburg
county:	Callaway	feature inters.:	branch of Loutre River
		cadastral grid:	S22/23, T49N, R7W
		highway route:	County Road 444
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer	condition:	fair
substructure:	unknown	alterations:	unknown
span number:	1	floor/decking :	unknown
span length:	23.0'	other features:	unknown
total length:	24.0'		
roadway width:	13.0'		

HISTORICAL DATA

erection date: 1912-13
erection cost: \$409.96
designer: Missouri Bridge and Iron Company, St. Louis MO
fabricator : Missouri Bridge and Iron Company, St. Louis MO
contractor: county work force

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 444002.5; Callaway County Bridge Record, see entry for Covington Bridge; Callaway County Court Record, Book 32: page 91 (8 February 1913), located at Callaway County Courthouse, Fulton MO.

sign. rating: 34
evaluation: NRHP non-eligible (typical, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Bridge

CALL41

GENERAL DATA

structure no.:	465000.9	city/town:	7.7 miles southeast of Auxvasse
county:	Callaway	feature inters.:	branch of Whetstone Creek
		cadastral grid:	S11, T48N, R8W
		highway route:	County Road 465
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel stringer	condition:	fair
substructure:	unknown	alterations:	unknown
span number:	1	floor/decking :	unknown
span length:	30.0'	other features:	unknown
total length:	32.0'		
roadway width:	13.0'		

HISTORICAL DATA

erection date: 1910
erection cost: \$566.00
designer: Stupp Brothers Bridge and Iron Company, St. Louis MO
fabricator : Stupp Brothers Bridge and Iron Company, St. Louis MO
contractor: Stupp Brothers Bridge and Iron Company, St. Louis MO

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 465000.9; Callaway County Court Record, Book 31: page 570, located at Callaway County Courthouse, Fulton MO.

sign. rating: 34
evaluation: NRHP non-eligible (typical, small-scale example of common structural type)

inventoried by: Clayton B. Fraser 29 January 1992

Middle River Bridge

CALL43

GENERAL DATA

structure no.:	521000.6	city/town:	5.5 miles southwest of Fulton
county:	Callaway	feature inters.:	Middle River
		cadastral grid:	S2, T46N, R10W
		highway route:	County Road 521 (Old U.S. 54)
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 5-panel, rigid-connected Pratt pony truss		
substructure:	concrete abutments, wingwalls and pier		
span number:	2	condition:	good
span length:	50.0'	alterations:	trusses widened
total length:	100.0'	floor/decking :	concrete deck over steel stringers
roadway width:	22.0'	other features:	steel pipe guardrails

HISTORICAL DATA

erection date:	1922
erection cost:	\$6,712.01
designer:	Missouri State Highway Department
fabricator :	unknown
contractor :	Riley and Bailey Construction Company
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 521000.6; Missouri Highway and Transportation Department Primary System Bridge Record, located at Bridge Division, MHTD, Jefferson City MO; Report of the State Highway Board of Missouri, 1919-20, page 130.
sign. rating:	36
evaluation:	NRHP non-eligible (relatively early example of MSHD truss design, substantially altered)

inventoried by: Clayton B. Fraser 29 January 1992

Little Auxvasse Creek Bridge

CALL44

GENERAL DATA

structure no.:	521004.7	city/town:	9.1 miles southwest of Fulton
county:	Callaway	feature inters.:	Little Auxvasse Creek
		cadastral grid:	S21, T46N, R10W
		highway route:	County Road 521 (old U.S. 54)
		highway distr.:	5
		current owner:	Callaway County

STRUCTURAL DATA

superstructure:	steel, 5-panel, rigid-connected Pratt through truss		
substructure:	concrete abutments and wingwalls		
span number:	1	condition:	good
span length:	100.0'	alterations:	none
total length:	103.0'	floor/decking :	concrete deck over steel stringers
roadway width:	20.0'	other features:	steel pipe guardrails

HISTORICAL DATA

erection date:	1922
erection cost:	\$15,406.32
designer:	Missouri State Highway Department
fabricator :	unknown
contractor:	Pope Construction Company, Jefferson City MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 521004.7; Missouri Highway and Transportation Department Primary System Bridge Record, located at Bridge Division, MHTD, Jefferson City MO; Third Biennial Report of the Missouri State Highway Commission, 1921-22, page 137.
sign. rating:	43
evaluation:	NRHP possibly eligible (relatively early, well-preserved example of MSHD truss design)

Inventoried by: Clayton B. Fraser 29 January 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Auxvasse Creek Bridge
MHTD: F 485R

CALL01

DATE(S) OF CONSTRUCTION

1921

LOCATION

U.S. Highway 54 over Auxvasse Creek; S2, T48N, R9W
3.3 miles south of Auxvasse; Callaway County, Missouri

USE (ORIGINAL / CURRENT)

highway bridge / highway bridge

RATING NRHP possibly eligible (score: 55)

CONDITION

good

OWNER

Missouri Highway and Transportation Department

span number: 2

span length: 80.0'

total length: 283.0'

roadway wdt.: 28.0'

superstructure: steel, 6-panel, rigid-connected Warren deck truss, with steel stringer approach spans

substructure: concrete abutments, wingwalls and piers

floor/decking: concrete deck over steel stringers

other features: steel guardrails

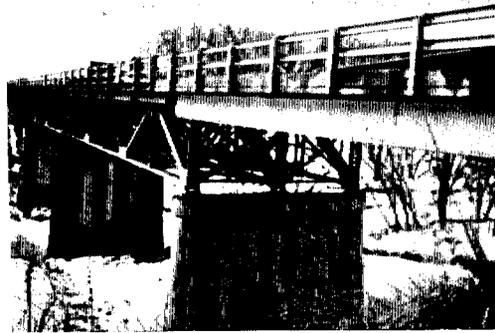
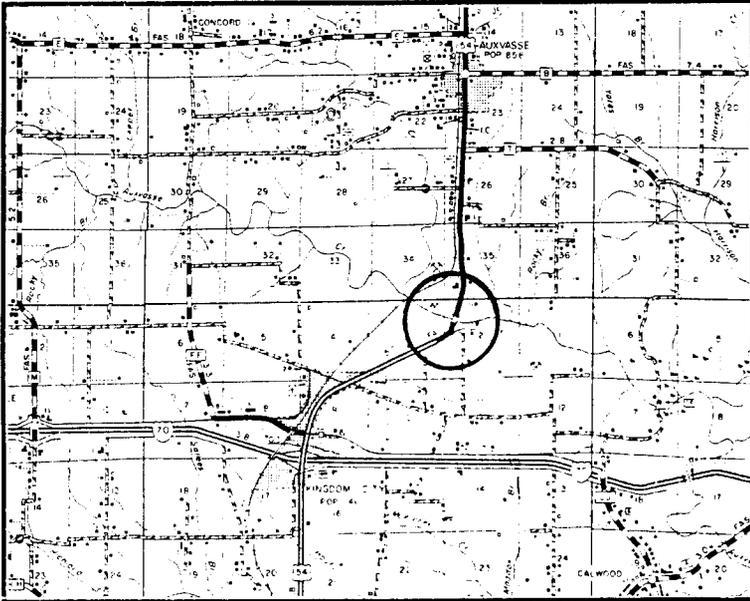
In 1920 the Missouri State Highway Department began planning for Federal Aid Project No. 136 in Callaway County, which entailed graveling a mile of road on Auxvasse Hill, south of the town of Auxvasse, and replacing an existing bridge over Auxvasse Creek. Located in the northern part of the county, the proposed highway bridge would carry the north-south State Route 15 (later redesignated U.S. 54). Late that year MSHD engineers designed this steel deck truss for the Auxvasse Creek crossing. The bridge featured two rigid-connected Warren trusses, supported by concrete abutments and a center pier. On June 18, 1921, the highway commission awarded a construction contract for the roadwork to John L. Moss of Clayton, Missouri. To build the bridge the commission hired the Riley and Bailey Construction Company of St. Louis. The contractors began work on the substructural excavation a month later, completing the bridge early the next year. Total cost: \$12,410.82. (The earlier truss [CALL32] was moved to a county-road crossing north of Calwood by Riley and Bailey.) The 1921 Auxvasse Creek Bridge carried highway traffic for over thirty years without significant alteration. In 1954 the highway department hired the Arthur Engineering Company to build new 31-foot and 51-foot steel stringer approaches at either end of the existing trusses. This modification is the only one of note on the bridge.

"During [1921-22] this Bureau has been largely engaged in preparing special designs for the bridges needed on the various road projects initiated during this time," the MSHD Bureau of Bridges reported in 1922. Most of the structures designed by MSHD in its formative years were simple I-beam or concrete slab bridges, interspersed with steel pony and through trusses. The Auxvasse Creek Bridge differed from virtually all of these other spans in that it employed a deck truss configuration. Steel deck trusses have never been common in Missouri (less than ten have been identified by the inventory). Thus, as an example of an uncommon structural type, designed on an experimental basis by MSHD, the Auxvasse Creek Bridge is technologically significant. Its subsequent alteration has diminished its integrity somewhat, however.

NAME(S) OF STRUCTURE

Auxvasse Creek Bridge

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number F 485R; Missouri Highway and Transportation Department, Primary Bridge Files, located at Bridge Division, MHTD, Jefferson City MO; Report of the State Highway Board of Missouri: 1919-20, page 130; Third Biennial Report of the Missouri State Highway Commission: 1921-22, page 146.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

29 January 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Cedar Creek Bridge
MHTD: 201001.3

CALL18

DATE(S) OF CONSTRUCTION

1909-10

LOCATION

County Road 201 over Cedar Creek; S12, T45N, R12W
6.8 miles northwest of Holts Summit; Callaway County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP non-eligible (score: 43)

CONDITION

fair

OWNER

Callaway County

span number: 1

span length: 112.0'

total length: 162.0'

roadway wdt.: 12.8'

superstructure: steel, 7-panel, pin-connected Pratt through truss

substructure: concrete-filled steel cylinder piers; concrete abutments and wingwalls

floor/decking: timber deck over steel stringers

other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 looped rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 looped rectangular eyebars; counter: 1 round eyerod with turnbuckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles; portal builder's plate: 1909 / Stupp Bros's Bridge & Iron Co / St. Louis MO

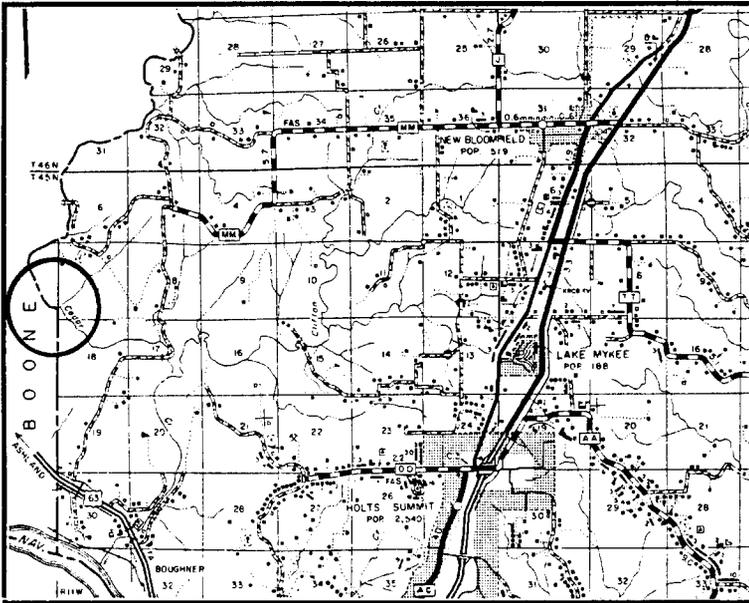
This medium-span through truss carries a gravel-surfaced road over Cedar Creek northwest of Holts Summit, in southwest Callaway County. The bridge traces its history to 1909. Early that year the Callaway County Court directed H.C.D. Halley, the Callaway County Highway Engineer, to investigate the site for a proposed bridge at this crossing. Halley did so, let the bridge's construction out to competitive bids, and on June 9th of that year, reported to the county court that he had "let the contract to build a 112 foot steel bridge with one 26 foot and one 23 foot approach" to the Stupp Brothers Bridge and Iron Company for \$2460.00. The St. Louis contractors began work on steel cylinder piers soon thereafter, completing the pin-connected truss by the end of the year. The Cedar Creek Bridge has functioned in place since, with only maintenance-related repairs to its deck and floor system.

The Cedar Creek Bridge is a representative example of the pinned Pratt through truss - a mainstay structural type. Built by the thousands on Missouri's county roads in the late 19th and early 20th centuries, this ubiquitous truss type is still well-represented throughout the state. With an erection date of 1909 and a span length of 112 feet, the Cedar Creek Bridge fits well within the mainstream of this construction trend.

NAME(S) OF STRUCTURE

Cedar Creek Bridge

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 201001.3; Callaway County Court Record, Book 31: page 471 (9 June 1909), page 504 (1 February 1910), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

29 January 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Murphy Bridge (Hillers Creek Bridge)
MHTD: 237002.2

CALL20

DATE(S) OF CONSTRUCTION

1911

LOCATION

County Road 237 over Hillers Creek; S15, T45N, R10W
5.4 miles northeast of Holts Summit; Callaway County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP non-eligible (score: 46)

CONDITION

fair

OWNER

Callaway County

span number: 1
span length: 75.0'
total length: 112.0'
roadway wdt.: 12.8'

superstructure: steel, 5-panel, pin-connected Pratt pony truss, with steel stringer approach spans
substructure: concrete abutments; concrete-filled steel cylinder piers; steel pile bent piers at approach spans
floor/decking: timber deck over steel stringers
other features: upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 looped rectangular eyebars; counter: 1 square eyebar with turnbuckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles; endpost-mounted builder's plate: **Built by the Stupp Bro's Bridge & Iron Co St. Louis MO 1910**

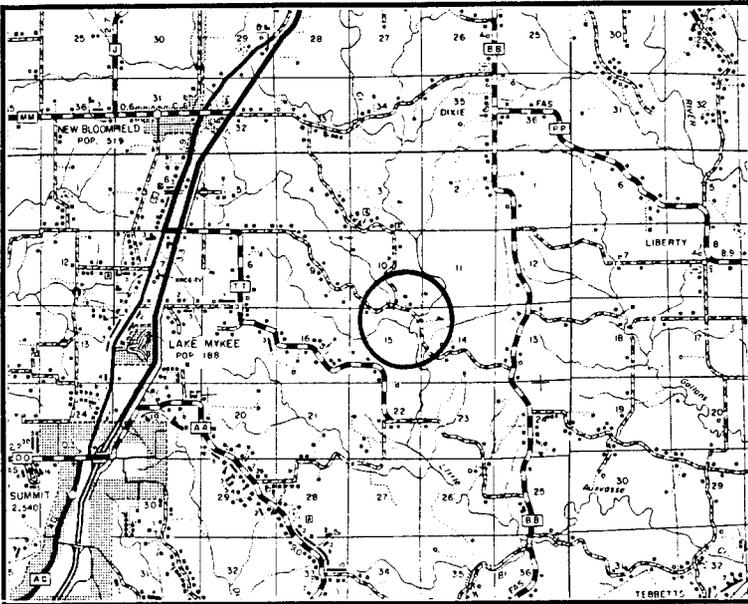
Late in 1910 the Callaway County Court ordered W.P. Divers, the county highway engineer, to view the site for a proposed bridge over Hillers Branch northeast of Holts Summit. Intended to carry the Murphy Road, the bridge would form an important crossing in the southern part of the county. In January 1911 Divers reported back that he had surveyed, located and prepared plans and specifications for a bridge at this crossing. The structure, according the Divers, would be "a 75 foot span Low pin connected truss steel bridge 20 feet high on tubes with 14 feet roadway and wooden floor, all of which will cost about \$1860.00." The county at this time contracted with the Stupp Brothers Bridge and Iron Company of St. Louis to fabricate and erect the truss for \$1687.00. When a Stupp Brothers crew completed the five-panel truss that September, they inexplicably affixed a 1910 builder's plate on one of the endposts. Since its completion, the Murphy Bridge has carried vehicular traffic in essentially unaltered condition.

For spans of less than 100 feet, the pinned Pratt pony truss was the bridge of choice for regional bridge companies in the early 20th century. Stupp Brothers Bridge and Iron Works, Missouri's most prolific bridge fabricator, was one of many competing firms that marketed Pratt trusses extensively to the counties at this time. With its standard design and detailing, the Murphy Bridge exemplifies this bridge construction trend.

NAME(S) OF STRUCTURE

Murphy Bridge (Hillers Creek Bridge)

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 237002.2; Callaway County Court Record, Book 31: page 564 (4 January 1911), page 608 (5 September 1911); Book 32: page 15 (9 February 1912) - located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

29 January 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Bryan Bridge
MHTD: 316002.2

CALL26

DATE(S) OF CONSTRUCTION

1912

LOCATION

County Road 316 over Auxvasse Creek; S32, T46N, R8W
1.2 miles northwest of Steedman; Callaway County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP possibly eligible (score: 65)

CONDITION

fair

OWNER

Callaway County

span number: 1
spans

span length: 180.0'

total length: 232.0'

roadway wdt.: 16.0'

superstructure: steel, 10-panel, pin-connected Pennsylvania through truss, with steel-stringer approach

substructure: concrete abutments and wingwalls; concrete-filled steel cylinder piers

floor/decking: asphalt over corrugated steel deck, with steel stringers

other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: 2 square eyebars with turnbuckles; lateral bracing: round rod with threaded ends; strut: 2 angles, braced; portal strut; A-frame; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles; portal builder's plate: 1912 / BUILT BY MISSOURI BRIDGE & IRON CO.

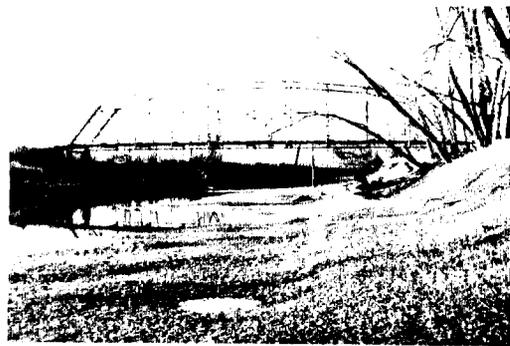
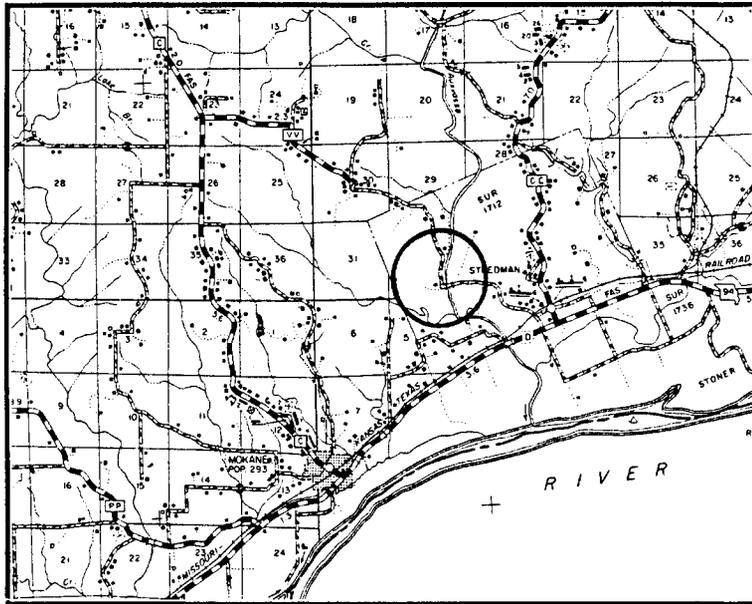
Located northwest of Steedman in southeast Callaway County, this long-span through truss carries a gravel-surfaced road over Auxvasse Creek, near the creek's mouth. The bridge features a pin-connected Pennsylvania truss, supported by concrete-filled steel cylinder piers and approached by steel stringer spans on both sides. Known locally as the Bryan Bridge, this structure dates to 1912. In the summer of that year the Callaway County Court directed county highway engineer W.P. Divers to locate and make estimates for a permanent bridge at this crossing. In October Divers reported back to the court that he had surveyed the site and that the bridge would necessarily be a 180-foot span, supported approximately 30 feet above the creek on steel tubes. Divers estimated the cost of the timber-decked structure at about \$6190.00. The county then let a contract to fabricate and build the Bryan Bridge to the Missouri Bridge and Iron Works of St. Louis for \$5875.00. Using steel rolled by the Cambria mills in Pittsburgh, MO B&I erected the steel cylinder piers and assembled the truss by the following October. The Bryan Bridge has carried vehicular traffic since its completion, with the replacement of its timber deck with asphalt as the only major alteration.

As a major, long-standing crossing on the road that paralleled the Missouri River (now State Highway 94), the Bryan Bridge played a historical role that is regional in scope. The bridge is also technologically significant as an example of an unusual steel truss design. Pennsylvania through trusses - long-span, curved chorded Pratt variants - have never been common on Missouri's county roads. And because of their inherently long spans and archaic pinned connections, those that were built have fallen prey to attrition through subsequent removal. Fewer than ten such trusses remain in use today, ranging in date from 1907 to 1917 and in span length from 180 feet (the Bryan Bridge) to 294 feet. The Bryan Bridge is a well-preserved, handsomely proportioned example of this uncommon Pratt variant.

NAME(S) OF STRUCTURE

Bryan Bridge (Auxvasse Creek Bridge)

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 316002.2; Callaway County Court Record, Book 32: page 65 (10 October 1912), page 135 (7 October 1913), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

29 January 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Logan Creek Bridge
MHTD: 327000.2

CALL27

DATE(S) OF CONSTRUCTION

1911

LOCATION

County Road 327 over Logan Creek; S31, T46N, R7W
6.7 miles northeast of Mokane; Callaway County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP possibly eligible (score: 54)

CONDITION

fair

OWNER

Callaway County

span number: 1

span length: 50.0'

total length: 134.0'

roadway wdt.: 12.0'

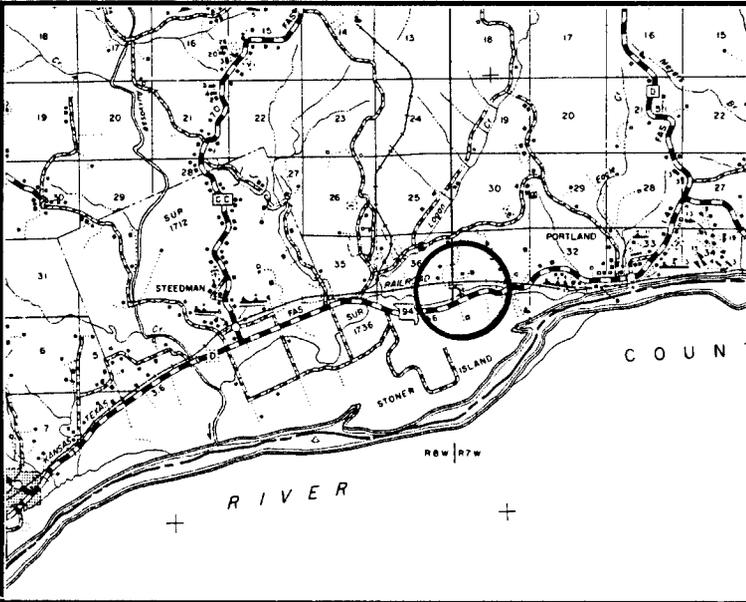
superstructure: steel, 3-panel, rigid-connected Warren/Pratt pony truss, with steel stringer approach spans
substructure: concrete abutments and wingwalls; concrete-filled steel cylinder piers; steel pile bent piers under approach spans
floor/decking: timber deck over steel stringers
other features: upper chord and inclined end post: wide flange; lower chord: 2 angles with batten plates; vertical: 1 channel; diagonal: 1 channel; lateral bracing: round rod with threaded ends; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles

This medium-span pony truss carries an unpaved county road over Logan Creek, west of Portland in southeastern Callaway County. The structure consists of a single rigid-connected pony truss, supported by steel cylinder piers and approached by steel stringers on both sides. Callaway County Structure Inventory and Appraisal Records indicate that the bridge was erected here in 1911. This date has not been corroborated in county records from the period, however. Construction details on the bridge itself support the 1911 date and further suggest that the truss was fabricated by the Stupp Brothers Bridge and Iron Company of St. Louis. With its main span, approach spans and substructure unaltered, the Logan Creek Bridge has retained a high degree of structural integrity.

The rigid-connected truss configuration used for the Logan Creek Bridge features an unusual combination of Warren and Pratt elements. The diagonals and verticals function like a Warren web, using simple triangulation for structural strength, but the end posts are sloped shallowly like a Pratt. Very few trusses using this hybrid design were erected in Missouri - virtually all attributable to either Stupp Brothers or Miller and Borcharding, a Stupp offshoot. Fewer yet remain in place today. The Logan Creek Bridge is distinguished as the earliest example in the state of this truss type. It is today a well-preserved example of an uncommon early rigid-connected truss, fabricated and built by Missouri's most prolific bridge builder.

NAME(S) OF STRUCTURE
Logan Creek Bridge

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 327000.2; Callaway County Court Record, Book 31, page 520 (8 June 1910), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

29 January 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Berry's Ford Bridge
MHTD: 340002.1

CALL28

DATE(S) OF CONSTRUCTION

1860/84

LOCATION

County Road 340 over Auxvasse Creek; S17, T46N, R8W
8.5 miles southeast of Fulton; Callaway County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP possibly eligible (score: 56)

CONDITION

fair

OWNER

Callaway County

span number: 1
span length: 153.0'
total length: 249.0'
roadway wdt.: 13.5'

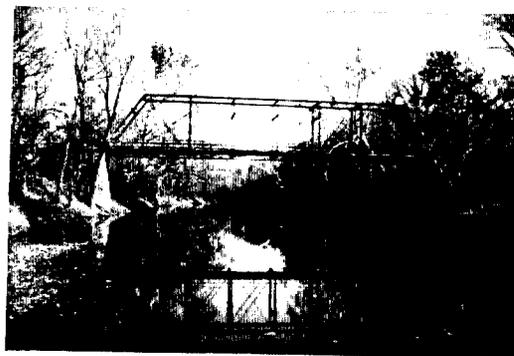
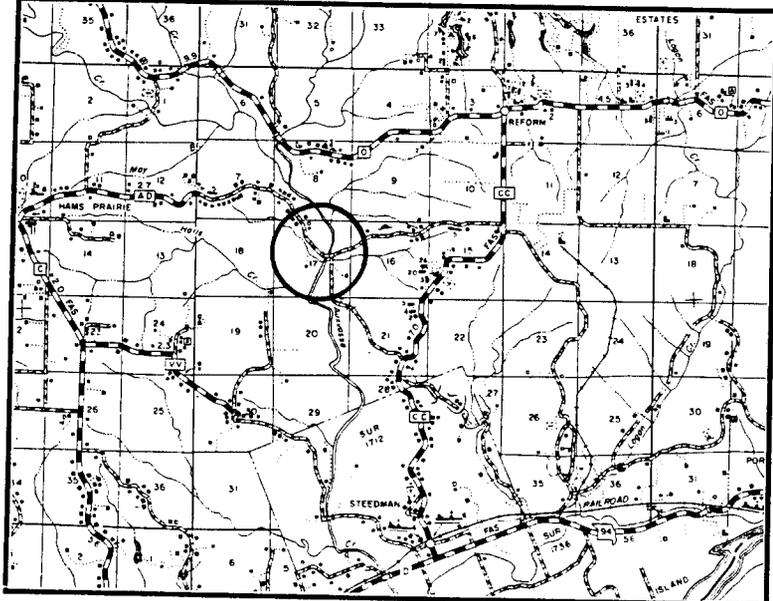
superstructure: wrought iron, 8-panel, pin-connected Pratt through truss, with steel stringer approach spans
substructure: stone abutments and piers; steel pile bent piers under approach spans
floor/decking: timber deck over steel stringers
other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing (2 round eyebars at the hip); diagonal: 2 punched rectangular eyebars; counter: 1 round eyebar with turnbuckle; lateral bracing: round eyebar with turnbuckle; strut: 4 angles with double lacing; floor beam: I-beam, field-bolted to vertical; guardrail: 2 angles

In June 1859 the Callaway County Court directed Nathaniel Hart to "select sites and report plans" for several bridges in the county. Among these was a crossing of Auxvasse Creek known as Berry's Ford, located on the road between Fulton and Portland in the southern part of the county. In August Hart presented plans for the proposed Berry's Ford structure: a long-span covered timber bridge held high above the river on massive stone abutments. The county hired contractor Richard L. Hord to build the piers and truss in December 1859; Hord completed the structure as the Civil War was beginning in 1861. The Berry's Ford Bridge carried wagon traffic for twenty years with occasional repairs, but by the early 1880s the county had begun to consider its replacement. In May 1882 Thomas H. Holley, the Callaway County Bridge Commissioner, inspected the old bridge and its abutments. Two months later the county court ordered an iron bridge built here, a "single span without any middle piers, old abutments now standing to be used and extended three feet." Holley solicited design and cost proposals from bridge companies in the region, and in August 1883 the county awarded a contract to fabricate and erect the new wrought iron truss to the Missouri Valley Bridge and Iron Works for \$2600.00. The Leavenworth, Kansas, firm completed the truss and its approaches by January 1885. At some subsequent point - perhaps in 1897, when a new river channel was cut at this point - one of the abutments was apparently re-configured as a pier, a new abutment built, and steel stringer approach spans were built on one side of the truss. Other than this modification and maintenance-related replacement of its deck components, the Berry's Ford Bridge remains in unaltered condition, as it continues to carry vehicular traffic.

Like virtually all of Missouri's counties, Callaway County followed a definite progression in its bridge construction in the 19th century, responding to evolving transportation needs and to technological development in the bridge building industry. The first simple spans, built as the county was undergoing its initial settlement, were rudimentary timber structures: cheap and easy to build but lacking in

NAME(S) OF STRUCTURE

Berry's Ford Bridge (Harris Ford Bridge; Auxvasse Creek Bridge)

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 340002.1; Callaway County Court Record, Book O: page 163 (23 June 1859), page 218 (19 August 1859), page 321 (25 November 1859), page 339 (21 December 1859), page 536 (22 May 1860), page 752 (19 December 1860), page 768 (23 January 1861); Book W: page 127 (5 May 1882), page 316 (3 July 1883), page 329 (9 August 1883), page 512 (10 October 1884), page 549 (5 January 1885); Book 27: page 448 (7 June 1897); Book 31: page 526 (5 May 1909), page 570 (9 June 1909); Callaway County Court Record 32: page 85 (4 February 1913), page 91 (8 February 1913), located at Callaway County Courthouse, Fulton MO; field inspection by Clayton Fraser, 6 November 1990.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

29 January 1992

durability and limited in span length. With greater revenues from increased settlement, the county could undertake more ambitious timber trusses in the 1850s and 1860s. Iron was used for tension members in the combination spans erected during the 1870s and early 1880s. These in turn were superseded in the 1880s by all-iron spans, made readily available by mass-production techniques. Although the county court barely noticed the transition from iron to steel in the 1890s - and, indeed, continued to refer to new bridges as iron that were undoubtedly made of steel - this evolution marked a watershed that would continue into the 20th century for bridge fabricators and the rolling mills that supplied them. Of the dozens of substantial iron bridges built in the 19th century by Callaway County, only one, the Berry's Ford Bridge, has survived demolition and flooding. The Berry's Ford Bridge is significant as the only remaining example in the county of early wrought iron truss construction: a well-preserved early structure that connects the period between the early covered bridges and the iron spans to follow.

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Loutre River Bridge
MHTD: 443002.3

CALL37

DATE(S) OF CONSTRUCTION

1896

LOCATION

County Road 443 over Loutre River; S14, T49N, R7W
7.3 miles north of Williamsburg; Callaway County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP possibly eligible (score: 48)

CONDITION

fair

OWNER

Callaway County

span number: 1
span length: 80.0'
total length: 125.0'
roadway wdt.: 10.3'

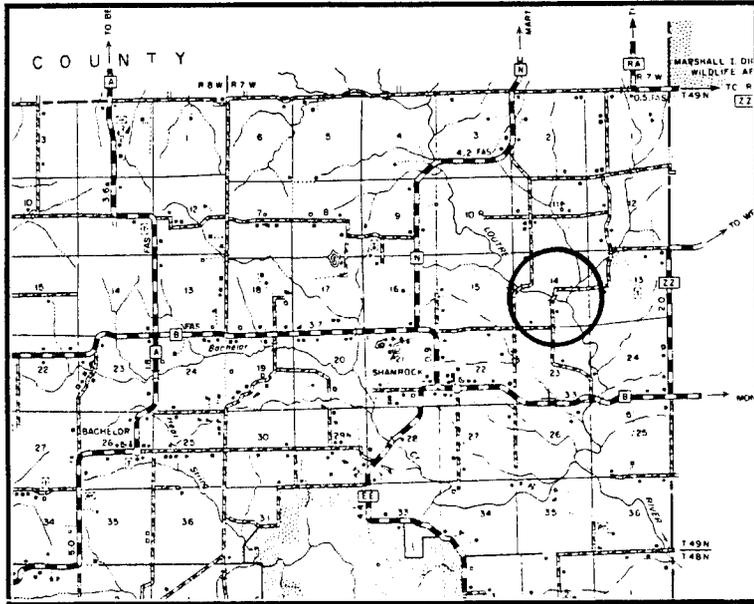
superstructure: steel, 5-panel, pin-connected Pratt pony truss, with rigid-connected lattice truss approach span
substructure: concrete-filled steel cylinder piers; concrete abutments and wingwalls
floor/decking: timber deck over steel stringers
other features: upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 looped rectangular eyebars; counter: 1 round eyerod with turnbuckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, U-bolted to lower chord pin; endpost-mounted builder's plate: **BUILT BY J.S. McCLEARY & SON**

In February 1895 the Callaway County Court received a citizens' petition for a permanent bridge at this crossing northeast of the small settlement of Shamrock. The judges approved construction of a 68-foot truss here, but did not act further to build it. A year later, when the court received another petition for the bridge from W.W. Covington and others, it directed the county bridge commissioner to contract with J.S. McCleary and Son to provide and erect an 80-foot pinned pony truss. The Montgomery City-based contractor began work on the substructure soon thereafter, completing the bridge by early May 1896 for a cost of \$1035.00. The Loutre River Bridge functioned in place unaltered until a lattice truss was added on one approach in 1911. Other than minor maintenance-related repairs and relatively recent collision damage to one of its verticals, the structure remains in unaltered condition, as it continues to carry vehicular traffic.

The pinned Pratt pony truss was used extensively throughout Missouri for short- to medium-span crossings in the late 19th and early 20th centuries. Virtually all of the state's bridge contractors - both large and small - marketed Pratt trusses as economical structures for short- to medium-span crossings. Built by a small-time contractor active in the late 1890s, the Loutre River Bridge typifies this trend. With standard design and detailing and common span length, it is technologically representative.

NAME(S) OF STRUCTURE
Loutre River Bridge

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 443002.3; Callaway County Bridge Record: page 444; Callaway County Court Record, Book Z: page 521 (4 February 1895); Book 27: page 153 (6 February 1896), page 210 (4 May 1896), page 224 (7 May 1896); Callaway County Court Record 31: page 585 (8 March 1911); field inspection by Clayton Fraser and Sheila Bricher-Wade, 6 November 1990.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

29 January 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Little Auxvasse Creek Bridge
MHTD: 521004.7

CALL44

DATE(S) OF CONSTRUCTION

1922

LOCATION

County Road 521 (old U.S. 54) over Little Auxvasse Creek; S21, T46N, R10W
9.1 miles southwest of Fulton; Callaway County, Missouri

USE (ORIGINAL / CURRENT)

highway bridge / roadway bridge

RATING NRHP possibly eligible (score: 43)

CONDITION

good

OWNER

Callaway County

span number: 1	superstructure: steel, 5-panel, rigid-connected Pratt through truss
span length: 100.0'	substructure: concrete abutments and wingwalls
total length: 103.0'	floor/decking: concrete deck over steel stringers
roadway wdt.: 20.0'	other features: steel pipe guardrails

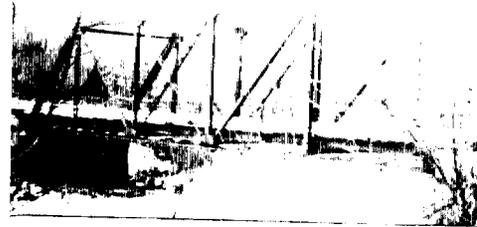
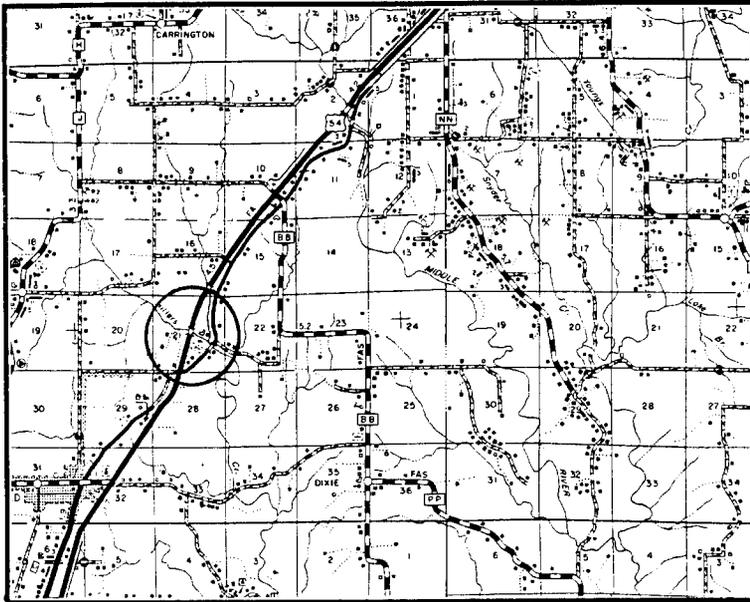
Located some nine miles southwest of Fulton, this short-span steel truss carries a gravel-surfaced county road over Little Auxvasse Creek. The structure is comprised of a single rigid-connected Pratt through truss, with a concrete deck and substructure. The bridge dates to 1922. In March of that year the Missouri State Highway Department contracted with the Pope Construction Company of Jefferson city to supply and erect the structure for \$15,406.32. Since its completion, the Little Auxvasse Creek Bridge has carried vehicular traffic, with only maintenance-related repairs. Originally on U.S. Highway 54, it—and this stretch of road—has more recently been transferred to county-road status following a re-routing of the highway.

One of the provisions of the Hawes Road Law establishing the Missouri State Highway Department was that the newly formed agency develop plans and specifications for bridges and culverts. "The Highway Department has maintained a drafting room which has been called upon for many kinds of service," the department reported in 1918, "but the especial function of which has been the preparation of bridge and culvert designs." By 1920, the department had developed several standards for short- and medium-span bridges, including 13 designs for steel superstructures with spans ranging up to 100 feet. The department designed numerous other spans in the early 1920s, but, due to attrition, most of these have since been demolished. Although modest in its design and dimensions, the Little Auxvasse Creek Bridge in Callaway County is historically distinguished as one of the oldest remaining trusses designed by the state highway department. It is thus an important resource for interpreting MSHD's formative years and the early development of Missouri's state highway network.

NAME(S) OF STRUCTURE

Little Auxvasse Creek Bridge

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 521004.7; Missouri Highway and Transportation Department Primary System Bridge Record, located at Bridge Division, MHTD, Jefferson City MO; **Third Biennial Report of the Missouri State Highway Commission, 1921-22, page 137.**

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