

rrr12/19

Job No. SE0056

Replaces Bridge No. P0803

# Missouri Department of Transportation Bridge Survey Location Request

Page 1 to be completed by District staff.

Bridge ov	er:	Apple Creek			Route:	С	
County:	Perry	Section:	4	Township:	33 North	Range:	13 East
Latit	tude: 37°35'29.6"N			Longitude:89°3	6'10.85"W		
District Conta	act: Garrett Galyea	n (573-472-5221)			Date:	5/4/202	3

## HIGH WATER ELEVATIONS AT PROPOSED BRIDGE SITE

Recorded high water elevations or elevation of high water marks

Extreme High Water (EHW) (Give date(s) of occurrence)							
Elevations and date(s) of same	Loca	ation	Source of information				
1.7" Below (1993)	Below North End	d of Bridge Floor	Flood of 1993 HW Book				
Existing Bridge Overtopped	s ⊡No ⊠Unknown	n Existing Roadway Overtopped □ Yes □No ⊠Unknow					
		Approx. Overtopp	bing Location(s):				

	LOO	CATION OF NEW BRIDGE
Replace in Existing Location		Provide details of any proposed changes to profile grade below or as an attachment.
Relocation (near existing Structure)		Provide details of proposed location and grade of the roadway
New Route		across the floodplain, any proposed/potential channel changes
Other:		or modifications, etc. below or as an attachment.

Additional Information:

#### Page 2 page 2 & subsequent pages to be completed by Bridge Division

Note: Proposed elevations, distances, etc. are based on the best available data at the time the form was completed. Actual field conditions or recently acquired data may require deviation from the proposed values. Please contact the Bridge Division with concerns regarding the proposed values or if large deviations from these values are required.
 Note: The information below supplements the survey requirements noted in the EPG, please consult EPG 238 for additional surveying requirements.

Bridge Contact: Landon Bodenschatz, 573-639-1480, Landon.Bodenschatz@modot.mo.gov

### Survey Type: 1D Survey

	Stream Crossing Survey Location Details (1D)								
	ltem	Requirement	Standard (	Gui	dance	Specific Gu	idance		
3)	C/L Profile	Terminal Point	Limit of Longest offset Profile		Use Standard Guidance				
	Upstream Offset	Terminal Point	Same as V	'alle	ey Sections	Elevation =		380	
Profiles* 238.3.36	Profile	Offset Distance	On Natural	Gr	ound	Estimated Di	stance =	40	
Profil 238.	Downstream	Terminal Point	Same as V	'alle	ey Sections	Elevation =		380	
(EPG	Offset Profile	Offset Distance	On Natural	Gr	ound	Estimated Di	stance =	40	
<u> </u>	Special	N/A							
		Length	Natural Stream	each side of crossing.)		Use Natural Stream Guidance			
Stream	bed Profiles**		Drainage Ditch		500' Each Side of Crossing				
(EPG 2	38.3.36.3.6)		Stream eraction of Crossing Ditch N Of Crossing D Beyond 1000' from A Crossing D		Nat. Stream 25'				
					Drain. Ditch 50'	Lise Natural	Stream Gi	lidance	
		1000' from			At Vertical and Horizontal Break Points (200' max.)	- Use Natural Stream Guidance (see EPG 238.3.36.3.6 if a significant slope change is encountered)		gnificant	
Valley Sections			Natural Stream	5'	above EHW	Elevation =	380		
	38.3.36.3.8), 50.3.1.1)	Terminal Point	Drainage 25 Ditch		5' Beyond ankside Toe of evee	Distance =	N/A		

Item	Requirement Standard Guidance			Specific Guidance		
Water Surface Profile (EPG 238.3.36.3.7)	Water Surface Profile Data Needed?  Yes No					
	Locations with flowing water	Drainage Ditch	100' and 200' each side of Crossing	Use Water Surface Profile Standard Guidance		

Item	Requirement	Standard Guidance	Specific Guidance
Typical Channel	Typical Channel Se	ection Data Needed? 🗌 Yes	🛛 No
Sections (EPG 238.3.36.3.9)	Within 300' each side of Centerline	Provide when Needed (i.e., Culvert on Perennial and	

	Intermittent Stream)	

Item	Requirement	Standard Guidance	Specific Guidance		
Existing Bridge Data	Existing Bridge Data Needed?				
	Description	Provide General Description	N/A		

ltem	Requirement	Standard Guidance	Specific Guidance			
	Other Bridge Data Needed? 🛛 Yes 🛛 No					
Other Bridges (EPG 238.3.36.3.10)	Description Provide General Description		N/A			
	Profile Location	Profile Location C/L Structure		N/A		
	Profile Terminal Point	5' above EHW	Elevation =	N/A		

\* additional profiles may be needed for relocated routes

\*\* at confluent streams provide proposed data for both streams as appropriate.

# Additional Information:

#### Additional Documents Provided:

Image & kmz files showing Valley Section Locations.

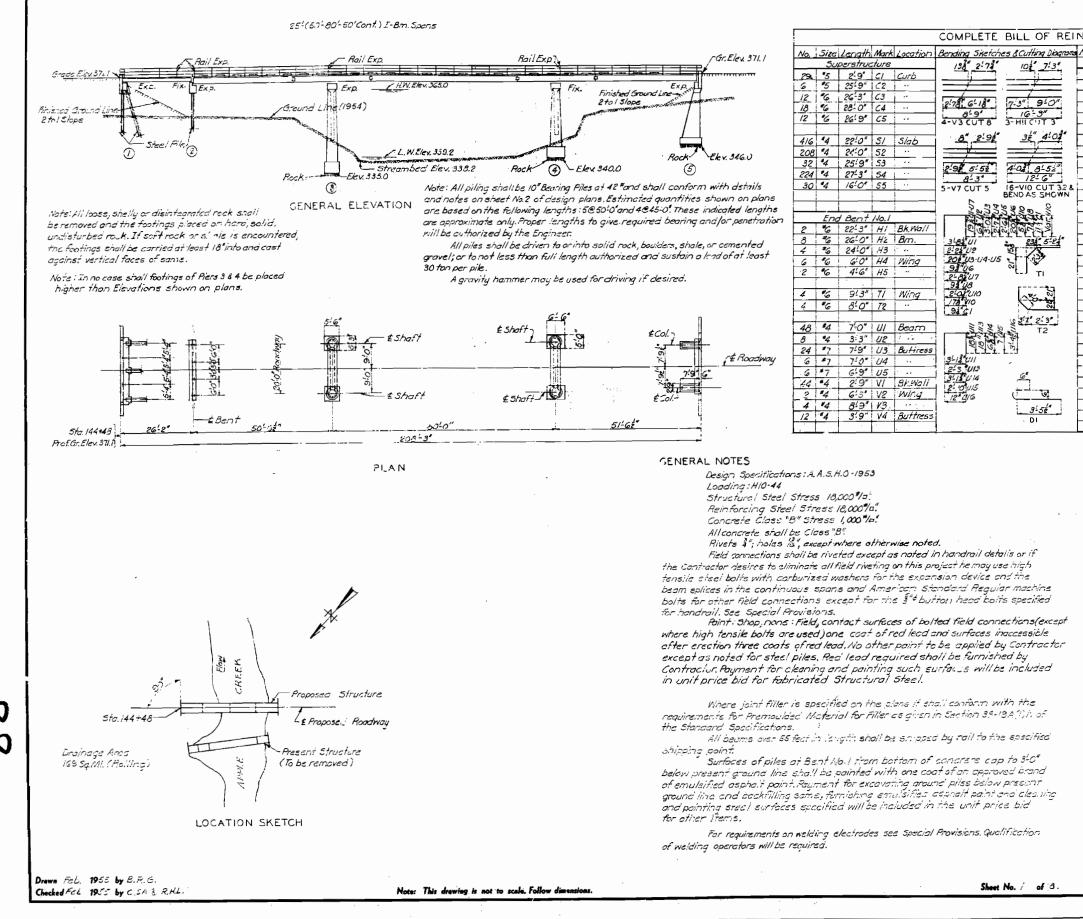
### Roadway Design Notes for Bridge Survey:

The Bridge Survey should include all the pertinent items listed in EPG 747 and the Bridge Survey Checklist.

#### Bridge Design Notes:

According to the TMS flood report, Bridge P0803 has not been overtopped in the last 20 years. FEMA Zone A

# MISSOURI STATE HIGHWAY DEPARTMENT



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ESTIMATED Q	UANTITIE	S		
Item		Substr.	Superstr.	Total .
Class / Excovation for Structures	Cuilds.	180		180
Class 2 Excervation for Structures	Cu.Ya's	25	1	25
Class "B" Concrete	CuYda	128.2	1	228.5
Fabricated Structural Steel	155.	310	106,320	107,230
Steel Castines	Lbs.		2740	2740
Stay Iron Alloy Castings	Lbs.		480	480
Reinforcing Steel	155	5,700	17,120	26,820
Steel Piles in place	in.Ft.	403		403
Steel Piles Cut-offs	Lin.Ff.	27		27

Note: Excavation for bridge mode above Elex 340.0 will be paid for as Class | Excavation for Structures, Excavation for bridge made below Elex 340.0 will be paid for as Class & Exravation for Structures, Estimated weight of Pobricated Structural Steel in substructure consists of weight of angles required for steel pile bents.

3.11. 15 Elev, 363.12 Spike in Telephone Pole 98' P.t. of Sto. 144125.

#### BRIDGE OVER APPLE CREEK

STATE ROAD FROM ALTENBURG FOUTH TO CAPE GRARDEAU ABOUT 6.7 MILES S.M. OF WITTENBURG COLLINE PROJECT NO. S-733 (2015C) STA. 1444-48

PERRY

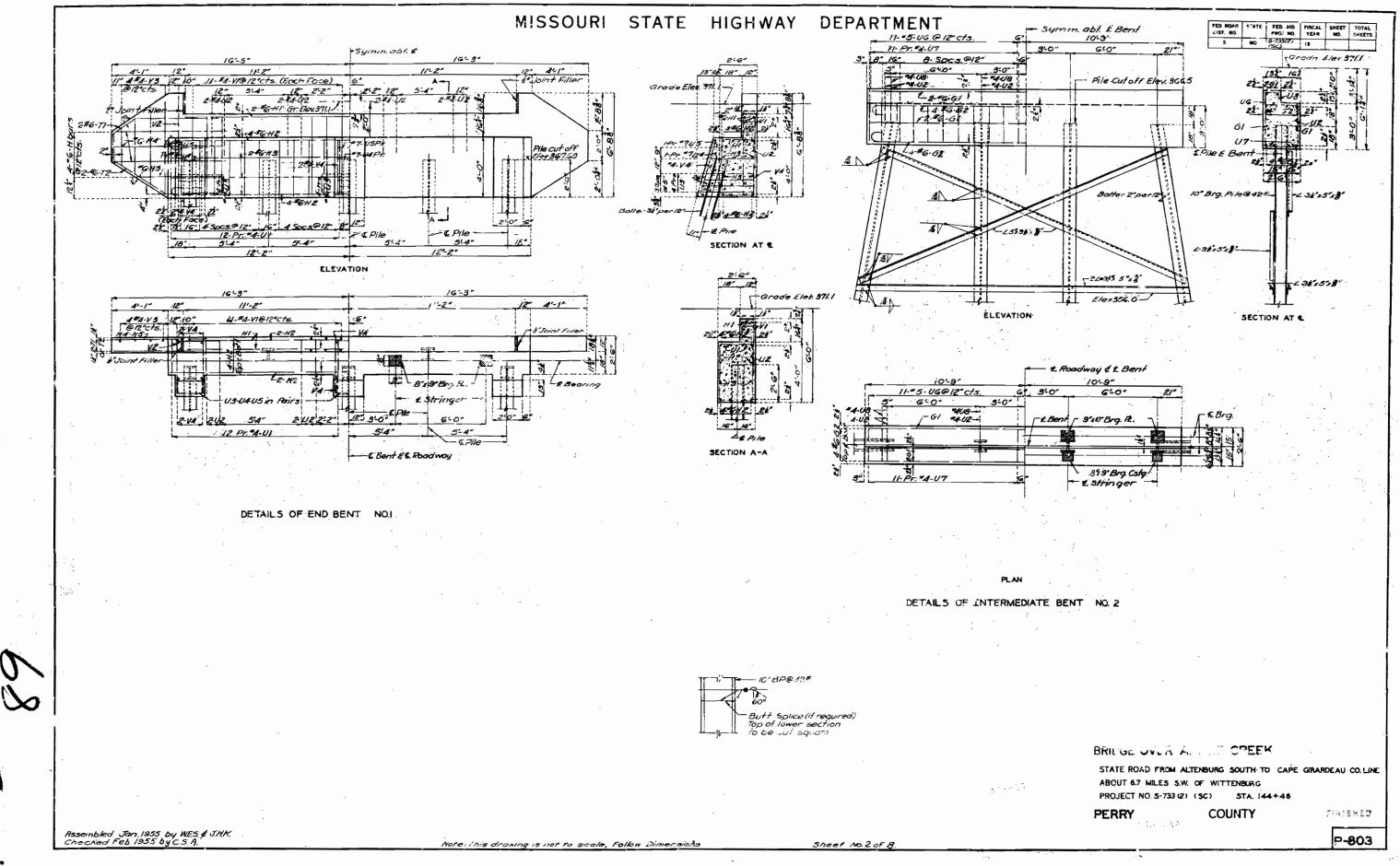
#### COUNTY

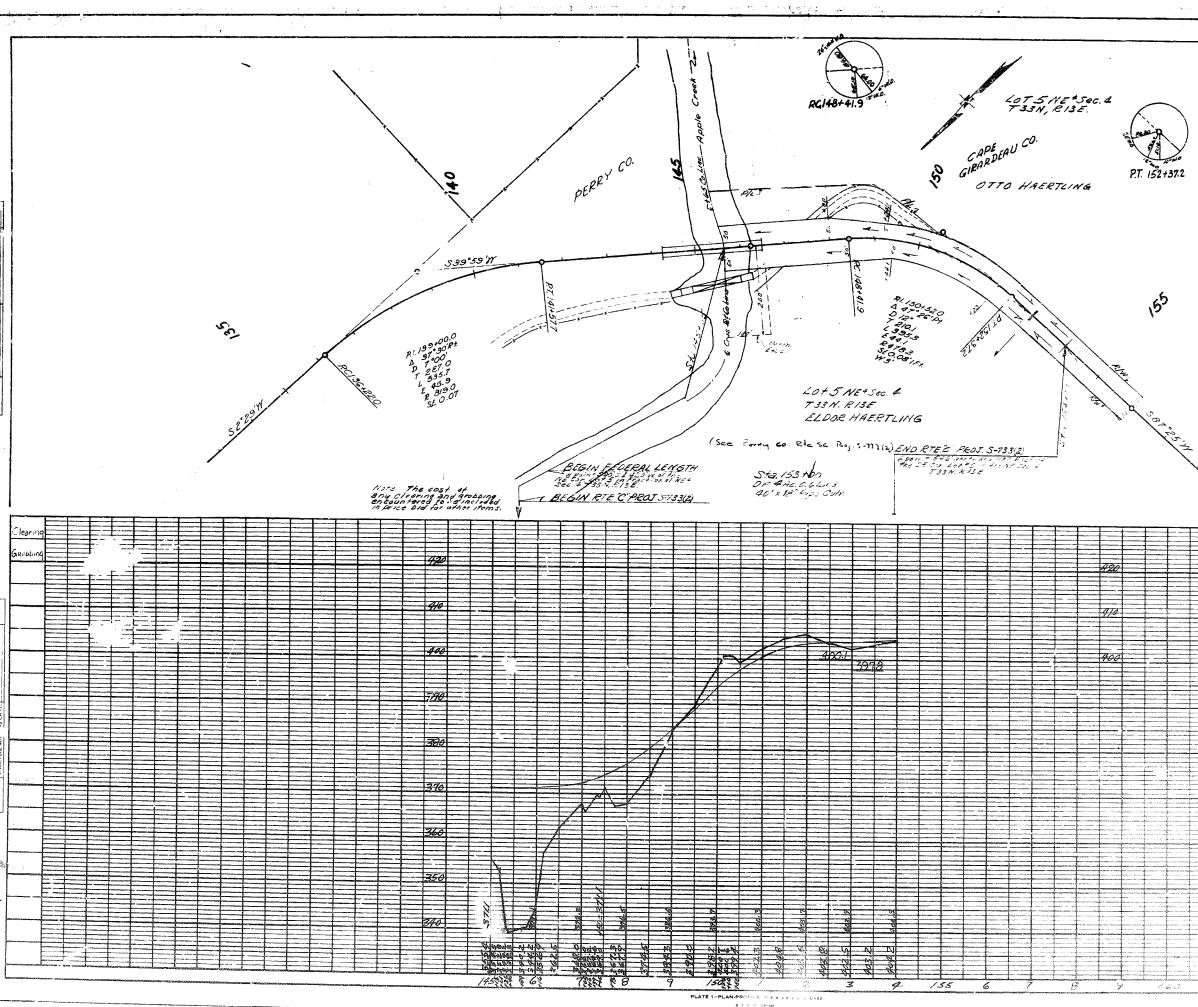
J.a. Utilliama \_- Z/23/55 Ref m. Whitton an 2/23/55 FINISHED

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5 10 5-733(2) 3 5 10 CAPE GIRARDEAU C DIRECT TIES 9 80 STA. 151+00 STA. 154 + 00 BENCH MARCS (USG.S. DATOM) USG.S. TITT - Brebze Table! 20 SW Corper Concrete Corb Bridge over Aprile Crinet Elev 371 84 Elev 371 80 13M - Am/ m 3" P. Gat 62 17 Sta. 47 1 85 Elev 372 10