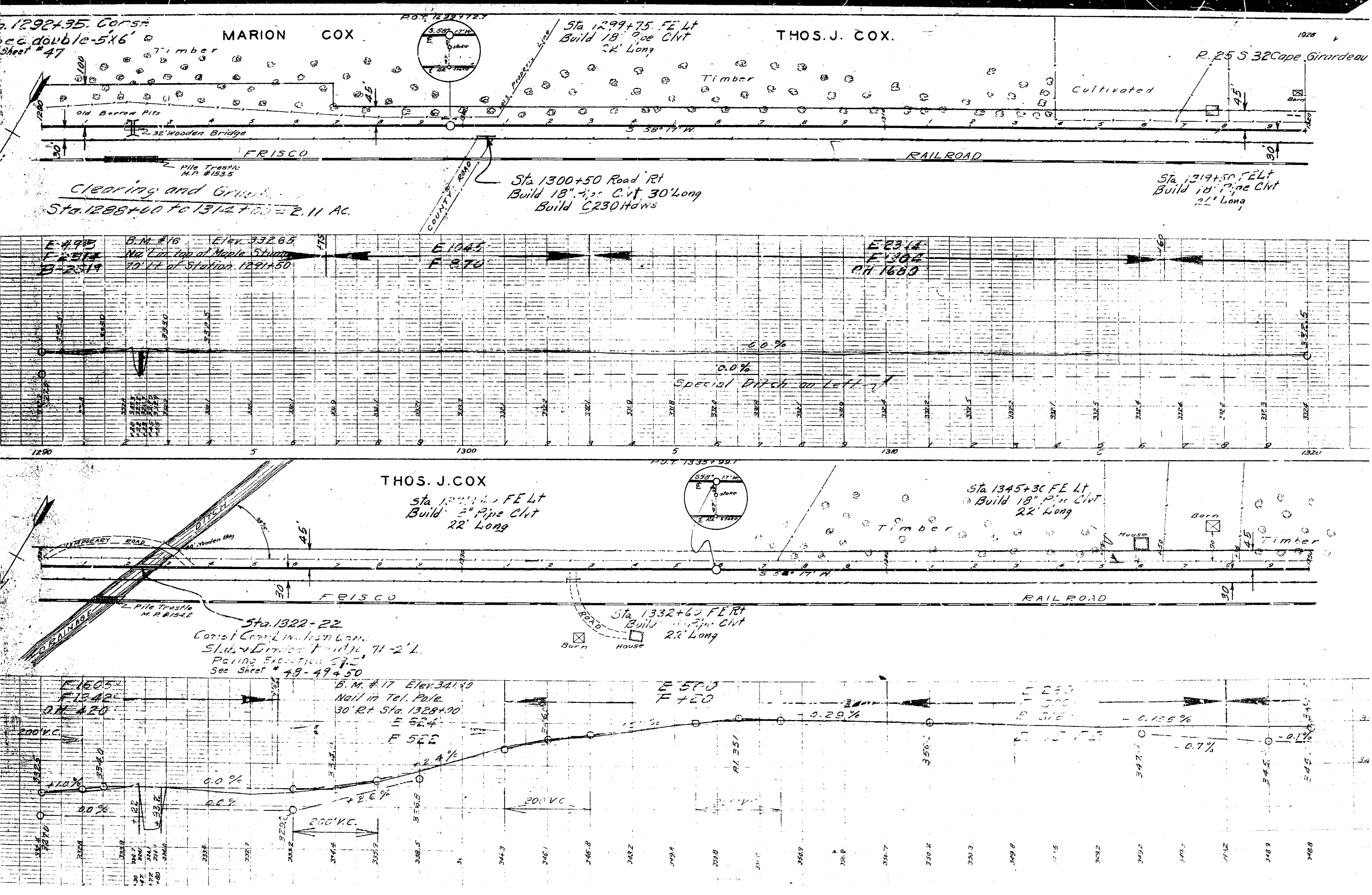
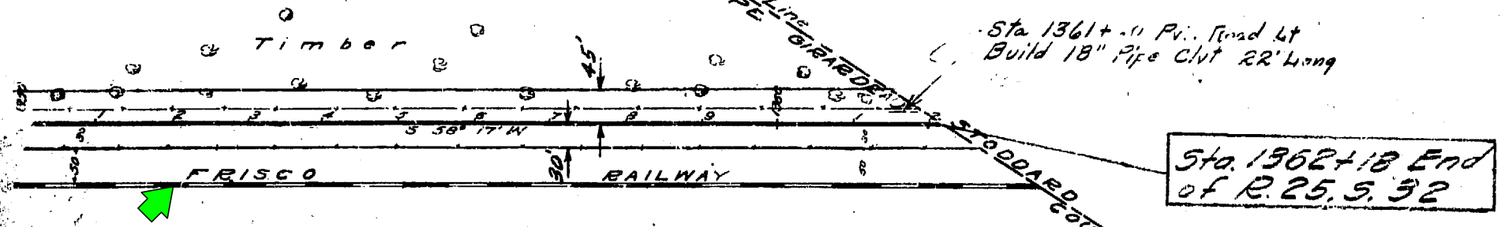


Sta. 1292+35 Const.
Conc. double-5'x6'
See Sheet #47
MARION COX
THOS. J. COX.
Timber
Sta 1299+75 FE Lt
Build 18" Pipe Clvt
22' Long
1928
R.25 S.32 Cape Girardeau
Cultivated
Old Borrow Pits
32' Wooden Bridge
S 58° 17' W.
FRISCO
RAILROAD
Pile Trestle
M.P. #153.5
Sta 1300+50 Road Rt
Build 18" Pipe Clvt 30' Long
Build C230 Hdws
COUNTY ROAD
Sta 1319+50 FE Lt
Build 18" Pipe Clvt
22' Long
Clearing and Grub
Sta. 1288+00 to 1314+00 = 2.11 Ac.
B.M. #16 Elev. 332.65
Nail in top of Maple Stump
70' Lt of Station 1291+50
E 1045
F 870
E 2314
F 1304
OH 1680
0.0%
Special Ditch on Left
1290
1300
1310
1320
THOS. J. COX
Sta 1327+00 FE Lt
Build 18" Pipe Clvt
22' Long
Sta 1345+30 FE Lt
Build 18" Pipe Clvt
22' Long
House
Barn
Timber
DITCH
DRAINAGE
Wooden Brg
S 58° 17' W.
FRISCO
RAILROAD
Pile Trestle
M.P. #154.2
Sta. 1322+22
Const Conc. Slab + Girder Bridge, 71-2'L.
Paving Exception 67.2'
See Sheet # 48 - 49 + 50
Sta 1332+60 FE Rt
Build 18" Pipe Clvt
22' Long
ROAD
Barn
House
B.M. #17 Elev. 341.80
Nail in Tel. Pole
30' Rt Sta. 1328+00
E 524
F 522
E 500
F +20
-0.29%
-0.155%
-0.7%
+1.07%
0.0%
+2.4%
+2.6%
200' V.C.
P.I. 351

THOMAS J. COX.

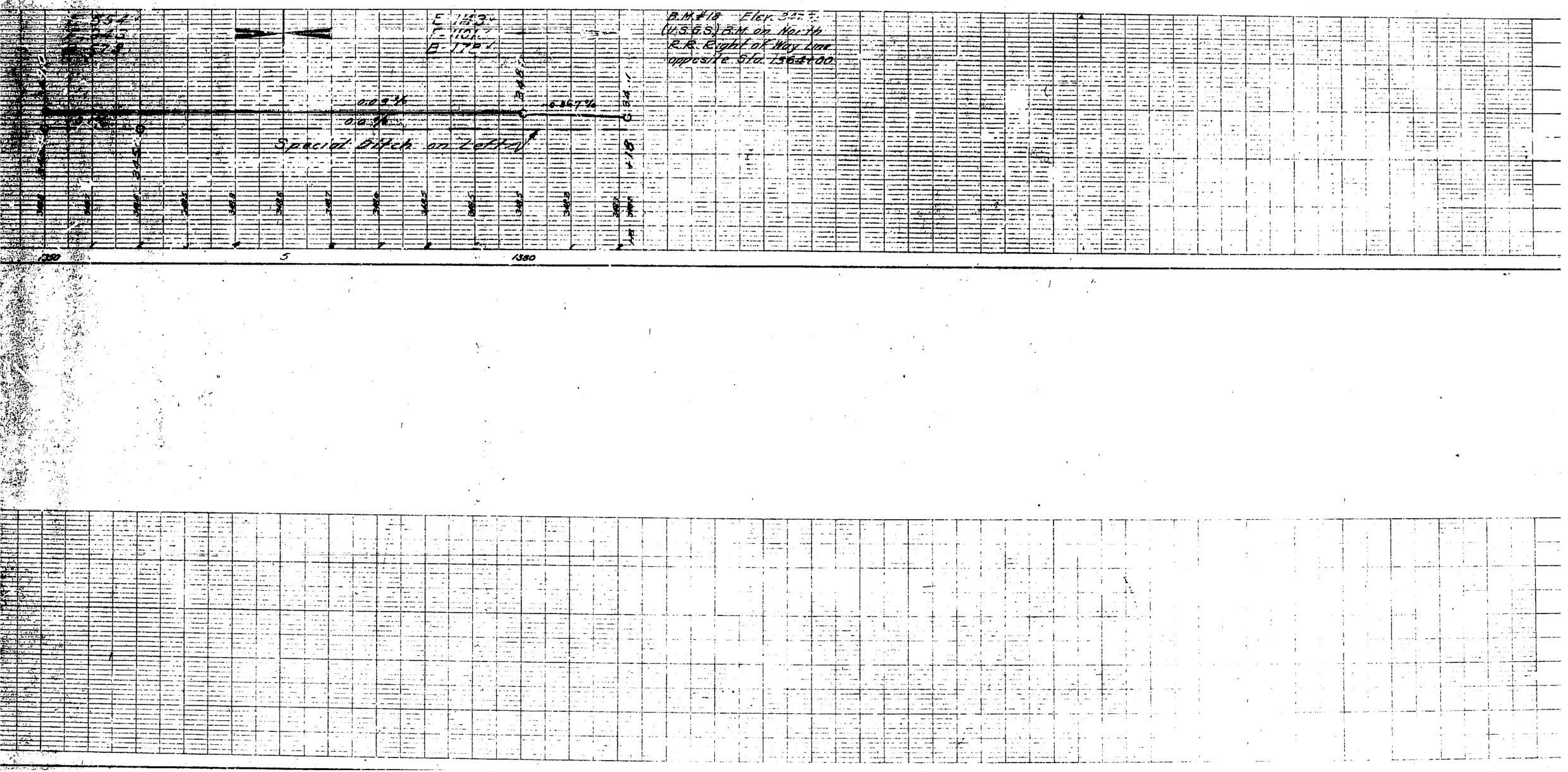
1926 P

R. 25 S. 32 Cape Girardeau



Sta 1361+.11 Pv., Road Lt
Build 18" Pipe Clvt 22' Long

Sta. 1362+18 End of R. 25. S. 32



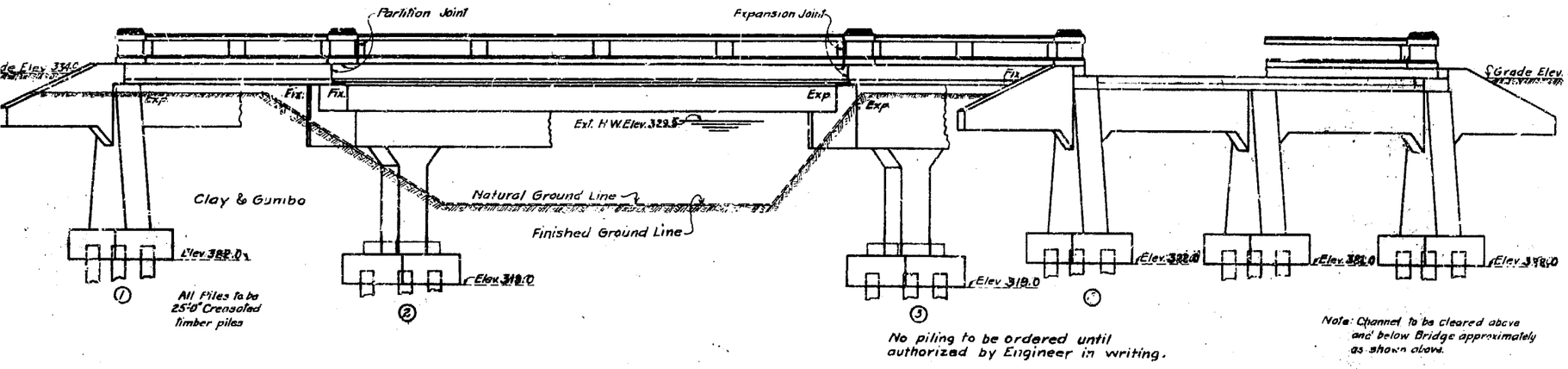
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	R25-532		2	3

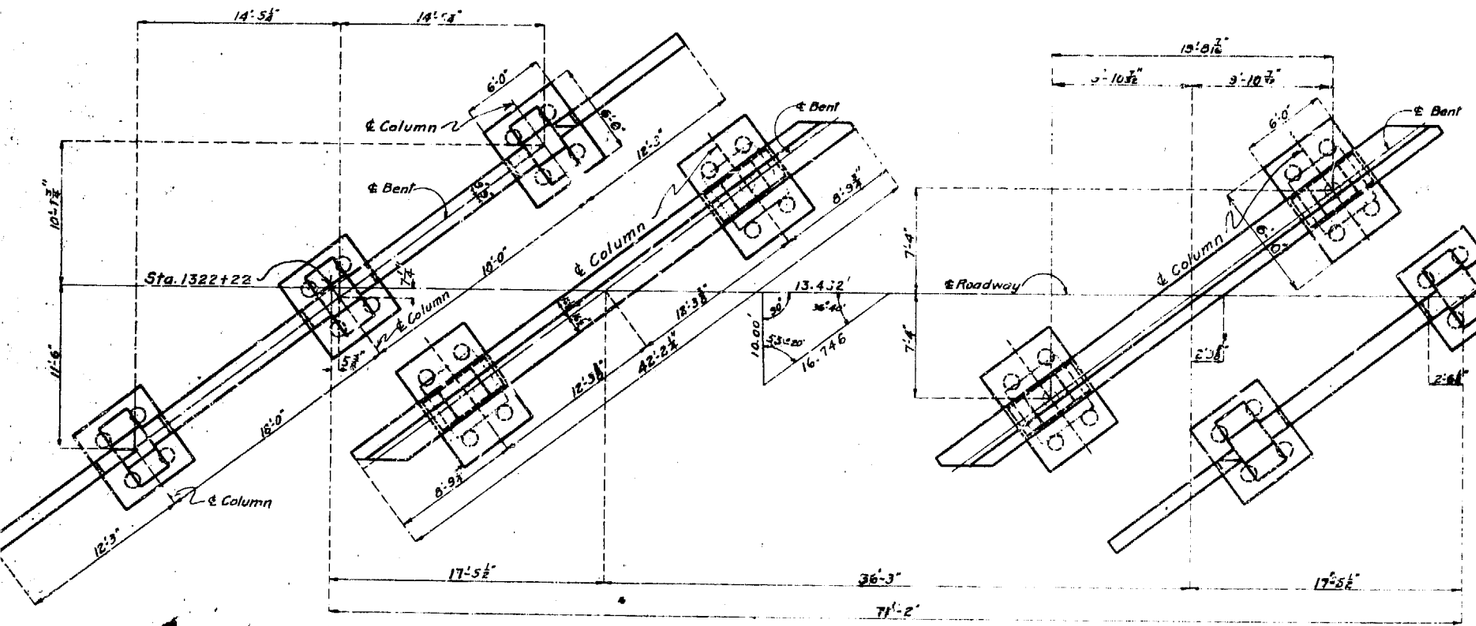
1 Standard Superstructure C5314 modified as shown.

1-Standard Superstructure C6335 modified as shown.

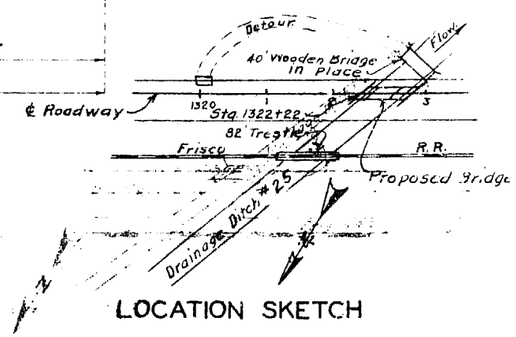
1-Standard Superstructure C5314 modified as shown.



GENERAL ELEVATION



PLAN

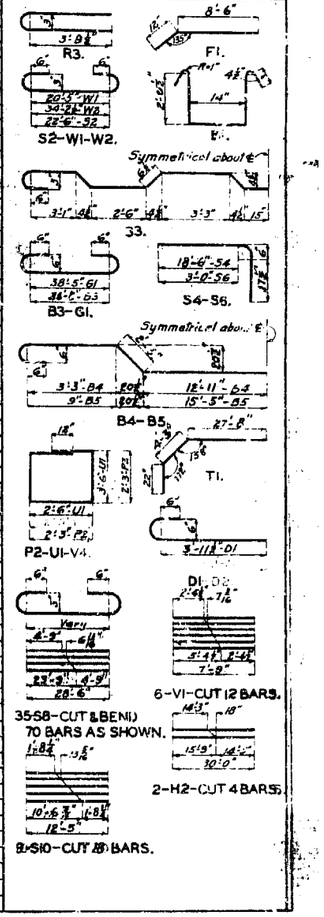


LOCATION SKETCH

COMPLETE BILL OF REINFORCING STEEL

No.	Size	Length	Mark	Location
Superstructure				
16	¼"	17'-9"	R1	Rail
48	¼"	9"	R2	"
32	¼"	8'-0"	R3	Subpost
24	¼"	2'-0"	R4	Post
52½	⅜"	18'	R5	Curb
4	¼"	2'-0"	R6	Rail
8	¼"	2'-3"	R7	"
16	¼"	18'-6"	R8	"
5	¼"	22'9"	S1	Slab
5	¼"	24'3"	S2	"
4	¼"	25'3"	S3	"
6	¼"	20'-9"	S4	"
6	¼"	7'-0"	S5	"
12	¼"	5'-3"	S6	"
12	¼"	19'-10"	S7	"
70	¼"	28'-6"	S8	"
20	¼"	11'-6"	S9	"
18	¼"	12'-3"	S10	"
82	¼"	15'-5"	S11	"
2	¼"	37'-6"	S12	"
12	¼"	20'-0"	C1	Curb
12	¼"	15'-6"	C2	"
64	¼"	15"	C3	"
12	1"	6'-6"	B1	Girder
16	"	19'-0"	B2	Slab
16	"	39'-3"	B3	Girder
8	1⅛"	39'-9"	B4	"
8	1⅜"	39'-9"	B5	"
4	¼"	22'3"	W1	Web
4	¼"	36'-0"	W2	"
Bents Nos. 1 & 4				
12	¼"	11' [illegible]	V1	Wing
4	¼"	5'-6"	V2	"
36	¼"	18'-3"	V3	Column
44	¼"	3'-6"	V4	Beam
36	¼"	5'-3"	D1	Footing
16	¼"	17'-0"	H1	Wing
4	"	30'-0"	H2	"
8	¼"	38'3"	H3	Beam
6	¼"	38'3"	H4	"
4	¼"	38'3"	H5	"
12	⅝"	38'3"	H6	"
12	¼"	33'9"	T1	Wing
24	¼"	9'-6"	F1	Haunch
Bents Nos. 2 & 3				
36	⅞"	41'0"	G1	Beam
4	¼"	38'9"	G2	"
4	¼"	38'9"	G3	"
84	¼"	13'0"	U1	"
16	¼"	15'-6"	P1	Column
16	¼"	10'0"	P2	"
156	¼"	5'-0"	P3	Beam
32	¼"	19'-6"	F1	Haunch
16	¼"	5'-3"	D2	Footing

BENDING SKETCHES & CUTTING DIAGRAMS



R6 to be plain smooth bars.

ESTIMATED QUANTITIES

Item		Superstr.	Substr.	Total
Excavation	Cu.Yds.		290	290
Creos. Timber Piles	Lin.Ft.		1000	1000
Creos. Timber Pile cut-offs Left				120
Concrete 1:2:3 mix	Cu.Yds.	7.6		7.6
Concrete 1:2:3½ mix	Cu.Yds.	76.0		76.0
Concrete 1:2.4 mix	Cu.Yds.		109.5	109.5
Reinforcing Steel	Lbs.	15,410	11,390	26,800

BM No. 17 Elev. 314.40 Nail in Tel. Pole 30' RT. Sta. 1328+00

Weight of reinforcing steel includes weight of bearing plates & bolts.

General Notes:
Concrete in rail to be 1:2:3 mix. Concrete in curbs, slabs and deck girder to be 1:2:3½ mix. All other concrete to be 1:2:4 mix.
Exposed edges to be beveled ¾" where no other bevel is noted.
Piles to be driven to sustain a load of 20 tons per pile.

BRIDGE OVER DITCH NO. 25

STATE ROAD FROM DELTA TO ADVANCE

ABOUT ¾ MILE FROM GREEN COX

PROJECT NO. R25-532. STA. 1322+22

CAPE GIRARDEAU COUNTY

SUBMITTED BY [illegible] DATE May 15 1926 ACTING BRIDGE ENGINEER

PASSED BY [illegible] DATE 5/15/26 ASSISTANT TO CHIEF ENGINEER

APPROVED [illegible] DATE May 15-26 CHIEF ENGINEER

May 1926 By A.L.G.
May 1926 By H.E.M.

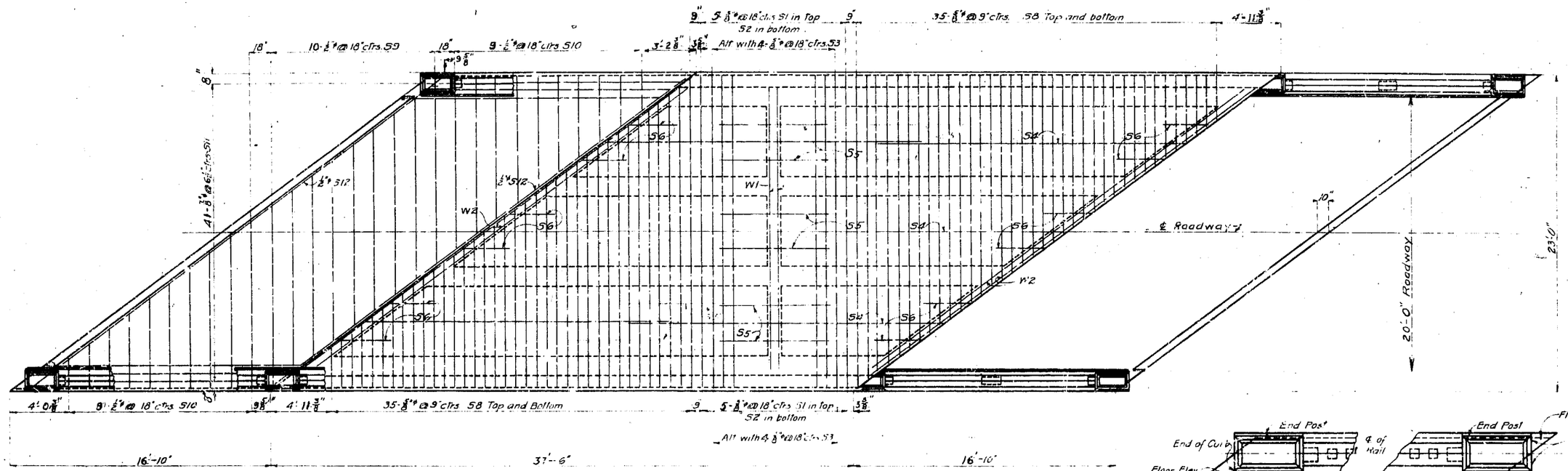
STDC5314
STDC6335

H-43

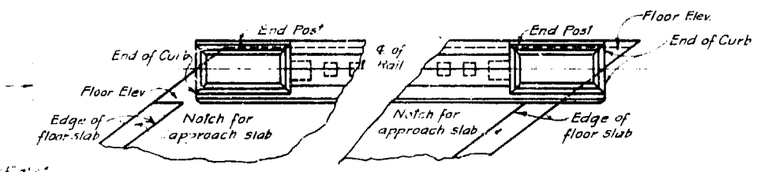
Sheet No. 1 of 3

MISSOURI STATE HIGHWAY DEPARTMENT

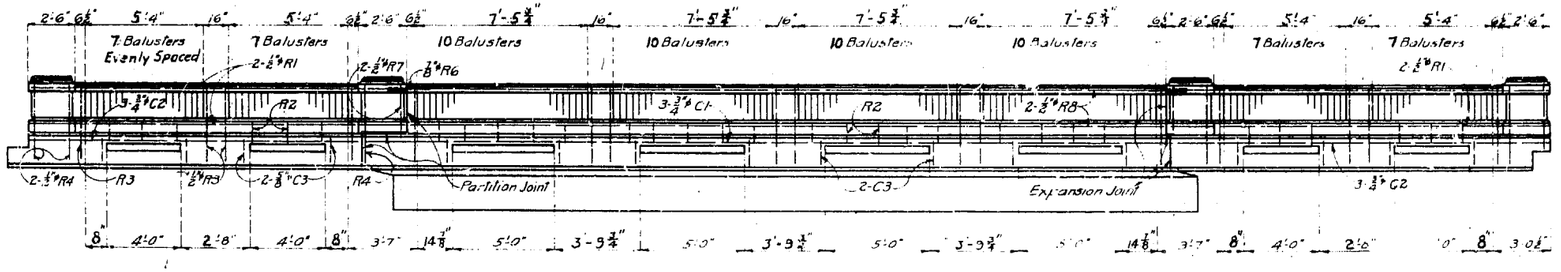
FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	RZS-532		2	3



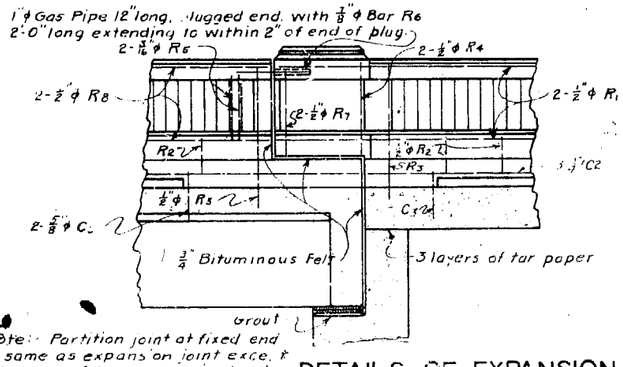
PLAN OF SLAB AND DECK GIRDER SHOWING REINFORCING



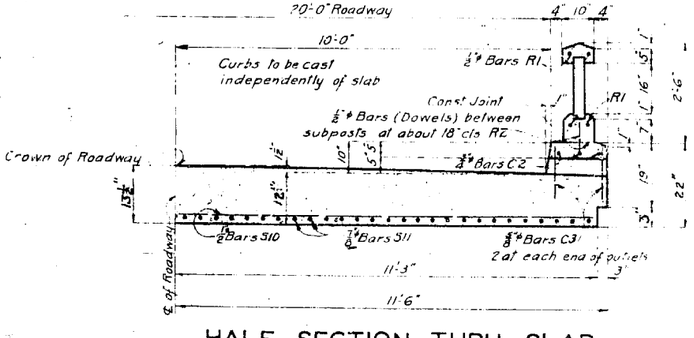
SKETCHES SHOWING LOCATION OF END POSTS OF HANDRAIL



ELEVATION OF HANDRAIL

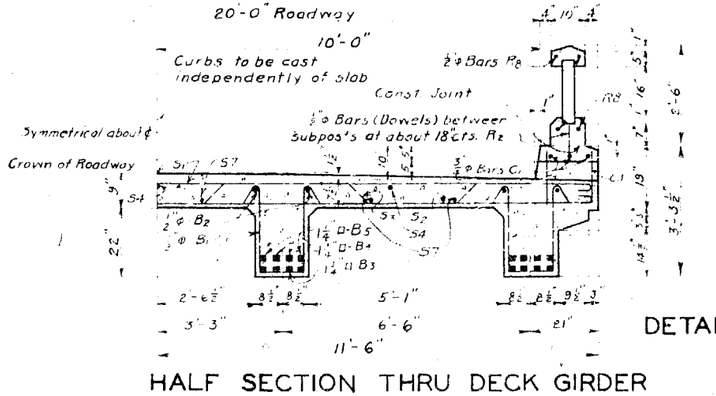


DETAILS OF EXPANSION JOINT



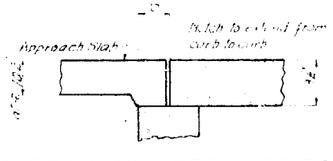
HALF SECTION THRU SLAB

AT RIGHT ANGLES TO ℄ OF ROADWAY



HALF SECTION THRU DECK GIRDER

AT RIGHT ANGLES TO ℄ OF ROADWAY



DETAILS OF NOTCH FOR APPROACH SLAB

SECTION PARALLEL TO ℄ OF ROADWAY

BRIDGE OVER DITCH NO. 25

STATE ROAD FROM DELTA TO ADVANCE

ABOUT ¾ MILE FROM GREEN COX

PROJECT NO. R25-532 STA 1322+28

CAPE GIRARDEAU COUNTY

Engineer May 15'26

STD.C5314
STD.C6335
H431

mbled May 1926 by A.L.G.
ked May 1926 by J.A.J.

12/19

Job No. J9P3722

Replaces Bridge No. H0431

Missouri Department of Transportation

Bridge Survey Location Request

Page 1 to be completed by District staff.

Bridge over: Drainage Ditch 25 Route: 25

County: Cape Girardeau Section: 32 Township: 29 North Range: 11 East

Latitude: 37°7'55.91"N Longitude: 89°51'17.01"W

District Contact: Garrett Galyean (573-472-5221) Date: 5/3/2023

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	Location	Source of information
5.8" Below (October 1991)	Below East End of Bridge Floor	HW Book 8180

Existing Bridge Overtopped ☐ Yes ☐No ☒Unknown	Existing Roadway Overtopped ☐ Yes ☐No ☒Unknown
	Approx. Overtopping Location(s):

LOCATION 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 across the floodplain, any proposed/potential channel changes or modifications, etc. below or as an attachment.
New Route	☐	
Other:	☐	

Additional Information:

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: Jordan Kremer, (573) 522-1651, Jordan.Kremer@modot.mo.gov

Survey Type: **1D Survey**

Stream Crossing Survey Location Details (1D)

Item		Requirement	Standard Guidance		Specific Guidance	
Profiles* (EPG 238.3.36.1.3)	C/L Profile	Terminal Point	Limit of Longest offset Profile		Use Standard Guidance	
	Upstream Offset Profile	Terminal Point	Same as Valley Sections		Elevation =	***
		Offset Distance	On Natural Ground		Estimated Distance =	40’
	Downstream Offset Profile	Terminal Point	Same as Valley Sections		Elevation =	***
		Offset Distance	On Natural Ground		Estimated Distance =	40’
	Special	*** Same as Valley Sections				
Streambed Profiles** (EPG 238.3.36.3.6)		Length	Natural Stream	Section limits (Min. of 1000’ each side of crossing.)	Use Drainage Ditch Guidance	
			Drainage Ditch	500’ Each Side of Crossing		
		Elevation Intervals	Within 1000’ of Crossing	Nat. Stream 25’	Use Drainage Ditch Guidance (see EPG 238.3.36.3.6 if a significant slope change is encountered)	
				Drain. Ditch 50’		
			Beyond 1000’ from Crossing	At Vertical and Horizontal Break Points (200’ max.)		
Valley Sections (EPG 238.3.36.3.8), (EPG 750.3.1.1)		Terminal Point	Natural Stream	5’ above EHW	Elevation =	N/A
			Drainage Ditch	25’ Beyond Bankside Toe of Levee	Distance =	150’ and 250’ Upstream and Downstream

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 Sections (EPG 238.3.36.3.9)	**Typical Channel Section Data Needed?** ☐ Yes ☒ No		
	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?** ☐ Yes ☒ No		
	Description	Provide General Description	N/A

Item	Requirement	Standard Guidance	Specific Guidance	
Other Bridges (EPG 238.3.36.3.10)	Other Bridge Data Needed? ☐ Yes ☒ No			
	Description	Provide General Description	N/A	
	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:

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:

No reported road closures due to flooding in TMS.