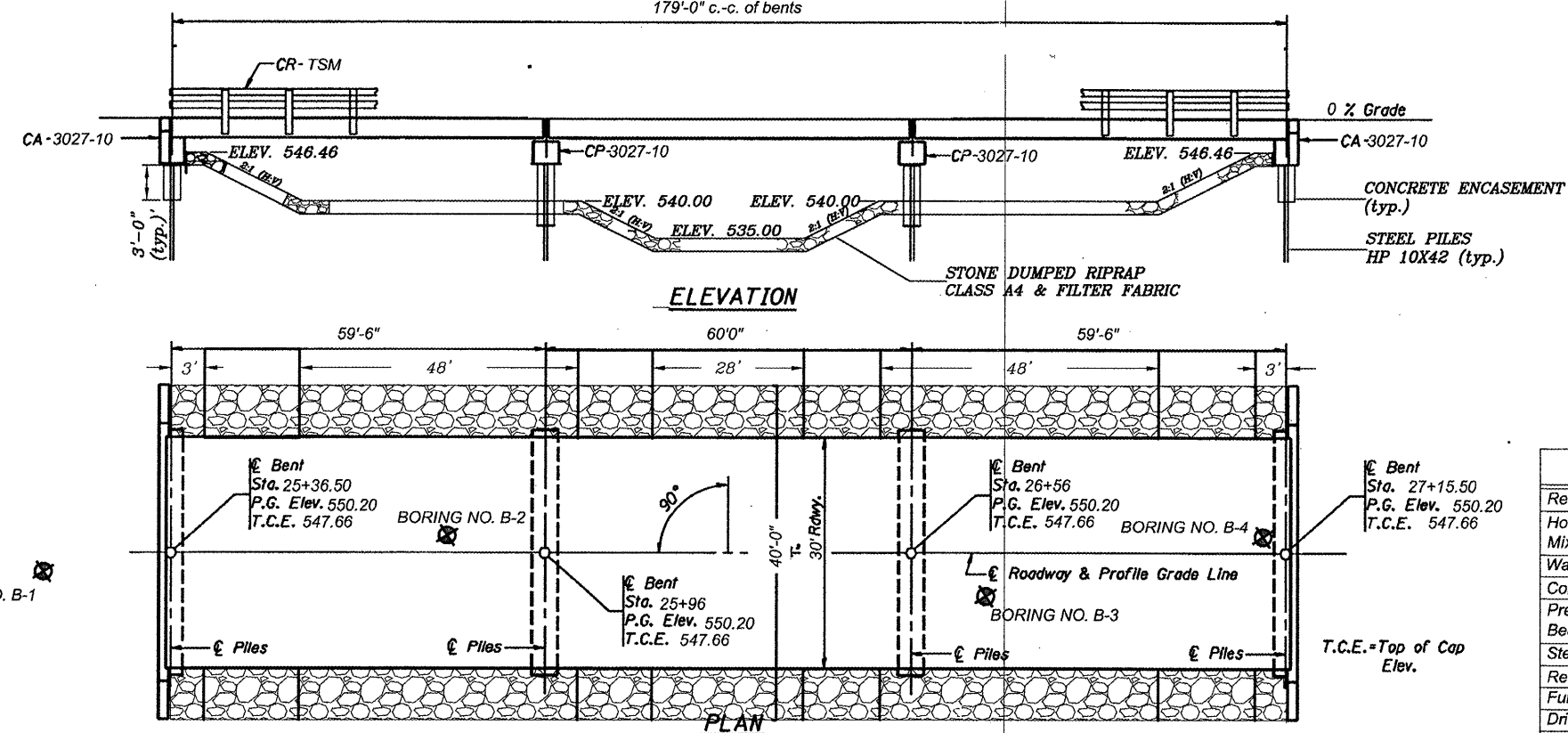


97356

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 67	06-18111-00-BR	MADISON	20	7

B.M. = 546.21 R.R. SPIKE IN 24" TREE, STA. 25+66, 67' LEFT, & = 544.23 R.R. SPIKE IN 12' TREE, STA. 26+65, 105' RIGHT
 EXISTING STRUCTURE- S.N. 060-3068. Built in 1959. Single Span 68'-9" c. to c. bearings. 15'-9" o. to o. width. Timber deck with a riveted Pratt Pony Truss superstructure on closed timber abutments

SALVAGE-NONE



- GENERAL NOTES**
- The contractor shall drive 2 test piles, as specified in a permanent location as directed by the Engineer before ordering the remaining pile.
 - See Special Provision for boring logs.
 - All references to "Bituminous Concrete Surface Course, Class I", or "Overlay" on the standard bridge plan sheets included herewith should be interpreted as referring to -Hot-Mix Asphalt Surface Course, Mix "C", N50.
 - The Steel H-Piles shall be according to AASHTO M270 Grade 50.
 - The test piles shall be driven to 110 percent of the nominal required bearing indicated in the pile data information.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts	
Removal of Existing Structure					1
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	73			73
Waterproofing Membrane System	Sq. Yd.	600			600
Concrete Structures	Cu. Yd.		18.2	22.2	40.4
Precast Prestressed Concrete Deck Beams (27" Depth)		5400			5400
Steel Railing, Type SM	Foot	360			360
Reinforcement Bars	Pound		1840	2700	4540
Furnishing Steel Piles, Hp 10X42	Foot		845	585	1430
Driving Piles	Foot		845	585	1430
Test Piles HP 10X42	Each		1	1	2
Name Plates	Each		1	1	2
Concrete Encasement	Cu. Yd.	1620	8.3	2.6	10.9
Portland Cement Mortar Fairing Course	Foot				1620



"I certify that to the best of my knowledge, information and belief, this bridge/ box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges. The capacity of the pile foundation, hydraulics and quantities were determined by Others and are not covered by this certification.

DESIGN SPECIFICATIONS
 2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44
 Allow 25#/sq. ft. for future wearing surface.

SESMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.83 g
 Site Coefficient (S) = 1.5

PILE DATA (2 PIERS)

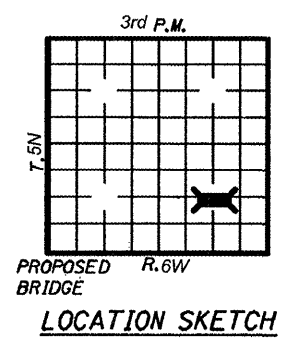
TYPE	HP 10X42
NOMINAL REQUIRED BEARING	335 KIPS
ALLOWABLE RESISTANCE AVAILABLE	112 KIPS
ESTIMATED LENGTH	65 FEET
NUMBER REQUIRED	14 (Includes 1 Test Pile located in bent # 2)

PILE DATA (2 ABUTS)

TYPE	HP 10X42
NOMINAL REQUIRED BEARING	335 KIPS
ALLOWABLE RESISTANCE AVAILABLE	112 KIPS
ESTIMATED LENGTH	65 FEET
NUMBER REQUIRED	10 (Includes 1 Test Pile located in bent # 4)

STATION 26+26
 SILVER CREEK
 SEC. 06-18111-00-BR BUILT 2008
 OLIVE ROAD DISTRICT
 MADISON COUNTY
 LOADING HS20
 STR. NO. 060-3347

LETTERING FOR NAME PLATE
 Locate Name Plate at South West Corner of Bridge (See Std. CN)



WATERWAY INFORMATION

Drainage Area = 21.81		Low Grade Elev. = 544.88		Sta. 22+25		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E. Exist. Prop.	Head - Ft. Exist. Prop.	Headwater E.L. Exist. Prop.
Design	15	3431	624 969	544.28	0.98 0.49	545.26 544.77
Base	100	5502	696 1073	545.23	1.28 0.54	546.51 545.77
Overtopping						
Max. Calc.	500	7204	1142 1339	545.87	1.25 0.61	547.12 546.48

GENERAL PLAN & ELEVATION
 TOWNSHIP ROUTE 67
 LIBBRA ROAD OVER SILVER CK.
 SECTION 06-18111-00-BR
 MADISON COUNTY
 STATION 26+26