

**TIMBER BILL OF MATERIAL (APPROACHES)**

MEMBER	DESCRIPTION	NUMBER	SIZE	MATERIAL
a <sub>1</sub>	Floor Planks	242	2"x6"x15'-0"	Red Oak
a <sub>2</sub>	Floor Planks	22	2"x6"x17'-0"	Red Oak
*b <sub>3</sub>	Block - Out	20	4"x6"x6'-0"	Red Oak
* See	p5 for wood block-out details			
v <sub>1</sub>	Vertical Posts	44	4"x6"x3'-4"	Red Oak
v <sub>2</sub>	Diagonal Brace	88	2"x6"x4'-0"	Red Oak
h <sub>1</sub>	Rail Planks	64	2"x6"x12'-6"	Red Oak
h <sub>2</sub>	Rail Planks	48	2"x6"x6'-6"	Red Oak
h <sub>3</sub>	Brush Block	16	4"x6"x12'-6"	Red Oak
h <sub>4</sub>	Brush Block	12	4"x6"x6'-6"	Red Oak
h <sub>5</sub>	Spacer Block	48	1"x6"x1'-6"	Red Oak
h <sub>6</sub>	Facia Board	20	1"x12"x12'-6"	Red Oak
h <sub>7</sub>	Facia Board	4	1"x12"x6'-6"	Red Oak
h <sub>8</sub>	Facia Board	4	1"x6"x6'-6"	Red Oak

**STEEL BILL OF MATERIAL (APPROACHES)**

DESCRIPTION	NUMBER	SIZE	LOCATION	LB PER	TOTAL LB	MATERIAL
W10x30 Beam	4	29'11"	Short Spans	900	3600	Steel
W10x45 Beam	4	36'	Long Spans	1620	6480	Steel
L 3-3/4x3x1/2	16	6"	Piers 1 & 4	10.68	170.9	Steel
Tapered 9x4 PL	4	See Detail on p6	Piers 1 & 4	9.25	37.0	Steel
Tapered 6-3/4x4 PL	2	See Detail on p6	East Abut.	6.94	13.9	Steel
Tapered 6-3/4x4 PL	2	See Detail on p6	West Abut.	7.90	15.8	Steel
Tapered Fill PL	12	See Detail on p6	Piers 1 & 4, W Abut.	2.01	24.1	Steel
Tapered Fill PL	4	See Detail on p6	E Abut.	1.67	6.7	Steel
8x9 PL	4	8"x9"x1"	Piers 1 & 4	20.42	81.7	Steel
8x6-3/4 PL	4	8"x6-3/4"x1"	Abutments	15.31	61.2	Steel
Tapered 6-3/4x8 PL	2	See Detail on p6	Pier 1	20.10	40.2	Steel
Tapered 6-3/4x8 PL	2	See Detail on p6	Pier 4	16.75	33.5	Steel
Tapered 9x8 PL	4	See Detail on p6	Piers 2 & 3	22.33	89.3	Steel
SHIM PL	4	8"x9"x1/8"	Piers 1 & 4,	NA	NA	Steel
Fabric Pad	8	8"x9"x1/4"	Piers 1 & 4	NA	NA	Fabric
Shim Plate	4	6 3/4"x 8"x 1/8"	Abutments	NA	NA	Steel
				Total:	10655	

Notes:

Shown are the actual dimensions of structural timber to be used. Nominal sizes will not be permitted.

All timber pieces shall be rough cut, treated red oak treated per Article 1007.12 of the standard specs.

All timbers in this schedule and all fasteners necessary for construction shall be paid for as Timber Deck Replacement - Lump Sum

Fasteners for Timber:

All fasteners used with treated wood products shall be stainless steel according to article 1006.29(d) or hot-dipped galvanized according to AASHTO M 232, Class C, except the minimum weight of zinc coating shall be 2.0 oz/sqft

Design Stresses for Timber:

$f_b = 1,050$  psi (red oak grade #2. 2" to 4" thick. 5" & wider)  
 $f_b = 1,150$  psi (red oak, grade #1. Beams and Stringers)

Notes:

Beam and plate sizes shall be field verified prior to ordering steel.

The cost of the bearing plates and fabric pads shall be included in the price for Furnishing and Erecting Structural Steel.

All structural steel shall conform to AASHTO classification M-270, Grade 50, unless otherwise noted.

MATERIAL SCHEDULES  
SUGAR CREEK COVERED BRIDGE  
D6 COV BR PLANK REM & REPL  
SANGAMON COUNTY