

BRIDGE GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 7/8"φ, open holes 1 1/16"φ, unless otherwise noted.

Calculated weight of M270 Gr. 36 (ASTM A709 Gr. 36) Structural Steel = 203,176 Pounds.

Calculated weight of M270 Gr. 50 (ASTM A709 Gr. 50) Structural Steel = 787,482 Pounds.

Field welding of construction accessories will not be permitted to beams. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before bolting diaphragms over supports.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.

The back face of closed abutments and their wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.

Concrete Sealer shall be applied to the seat area of the abutments and pier.

Reinforcement bars designated (E) shall be epoxy coated.

The inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be reddish brown, Munsell No. 2.5 YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures".

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Deck elevations are constant along lines parallel to U.S. Rte. 6

All construction joints shall be bonded.

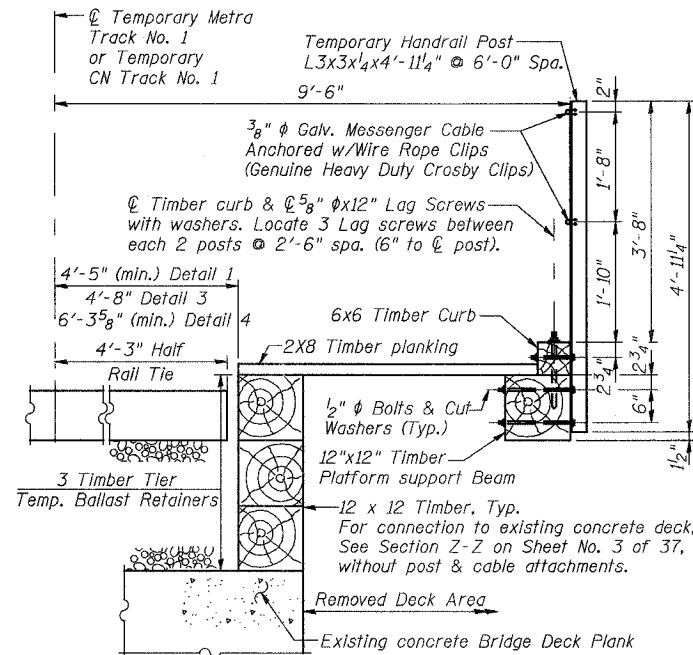
The cost of Expansion Joint Construction is included with Concrete Structures. Water Seal and PJF in Expansion Joint shall extend from top of footing to 3" from top of wall.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

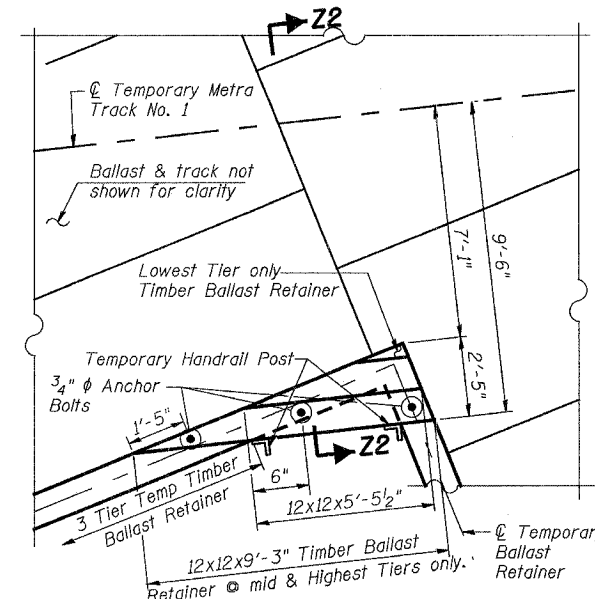
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	350
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

CONTRACT NO. 60E10

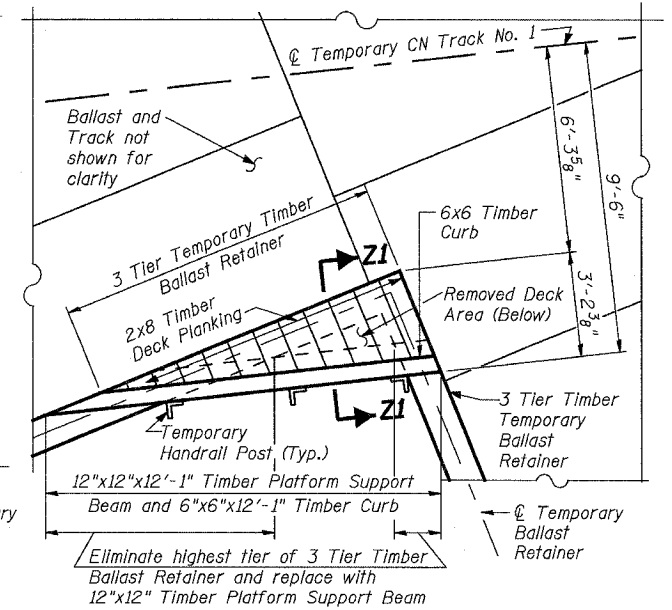
SHEET NO. 2
37 SHEETS



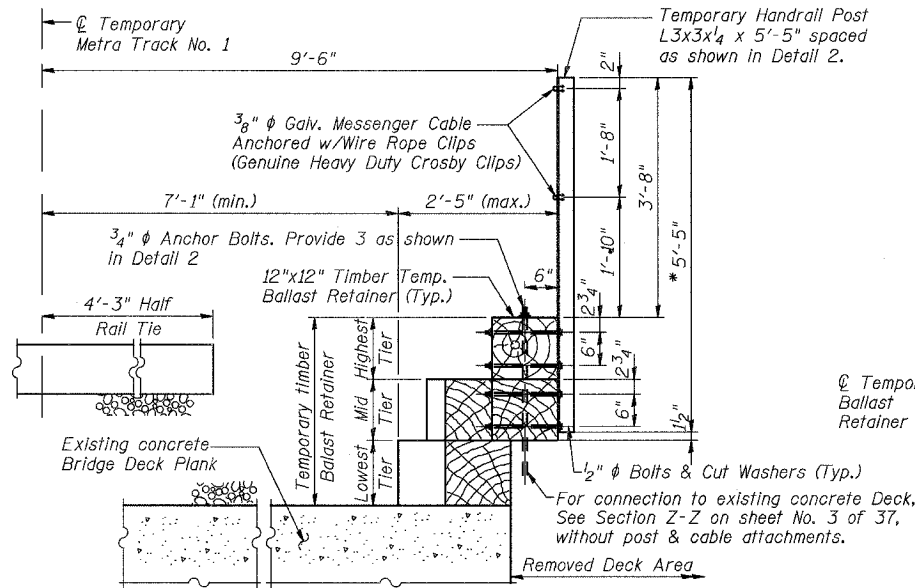
SECTION Z1-Z1



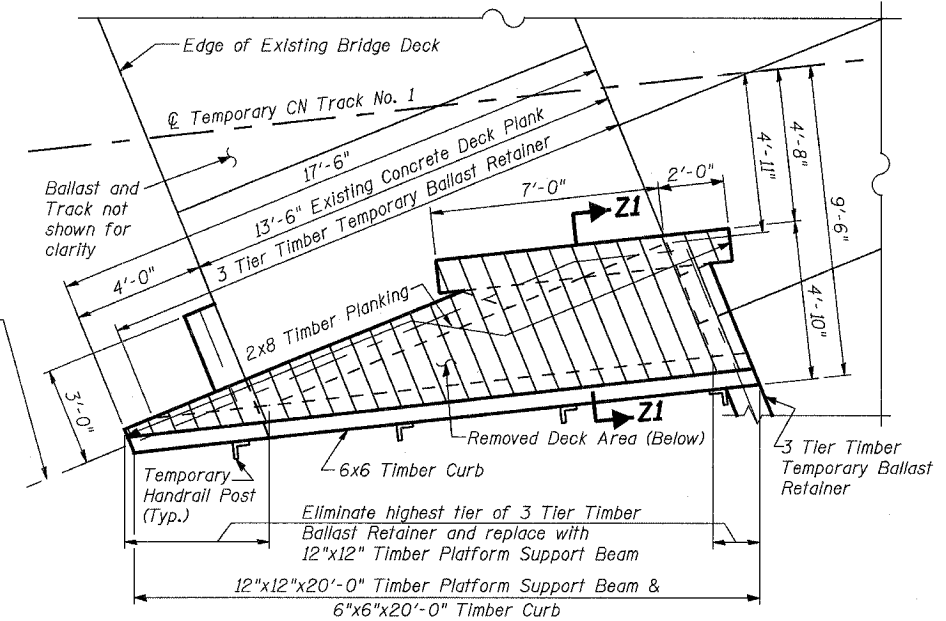
DETAIL 2



DETAIL 4



SECTION Z2-Z2



DETAIL 3

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		2,183	2,183
Removal of Existing Structures No. 1	Each	1		1
Structure Excavation	Cu. Yd.		2,243	2,243
Non-Special Waste Disposal	Cu. Yd.		3,997.4	3,997.4
Concrete Structures	Cu. Yd.		1,689.1	1,689.1
Concrete Superstructure	Cu. Yd.	242.7		242.7
Furnishing and Erecting Structural Steel	L Sum	0.46		0.46
Reinforcement Bars	Pound		12,230	12,230
Reinforcement Bars, Epoxy Coated	Pound		362,380	399,130
Pipe Handrail, Special	Foot	216	138	354
Name Plates	Each		1	1
Anchor Bolts, 1 1/4"	Each		208	208
Membrane Waterproofing (Special)	Sq. Ft.	9,221.5		9,221.5
Concrete Sealer	Sq. Ft.		978	978
Geocomposite Wall Drain	Sq. Yd.		775	775
Braced Excavation	Cu. Yd.		3238.3	3238.3
Permanent Steel Sheet Piling	Sq. Ft.		2,567	2,567
Drilled Shaft in Soil	Cu. Yd.		508	508
Drilled Shaft in Rock	Cu. Yd.		84	84
Bar Splicers	Each	208	200	408
Temporary Ballast Retainer System	Foot		349	349
Temporary Removable Walkway System for SN 016-2755 Construction	L Sum	1		1
Conduit Attached to Structure, 4" Dia. Galvanized Steel	Foot		256	256

METRA AND C.N.
BUILT 2009 BY
STATE OF ILLINOIS
F.A.P. RT. 351 SEC. 3277R
STA. 92+24.25 LOADING COOPER E-90
STR. NO. 016-2755

NAME PLATE
(See Std. 515001)

DESIGNED	DRS
CHECKED	JJG
DRAWN	SOI
CHECKED	JJG

Notes:

- For Location of Details 2, 3, and 4, see Sheet No. 13 of 37.
- Increase dimension 5'-5" if timber ballast retainers are larger than 11 1/4" square.

URS
100 South Wacker Drive,
Suite 500
Chicago, IL 60606
(312) 939-1000

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
GENERAL NOTES & TOTAL BILL OF MATERIAL
METRA & CN BRIDGE 20.6
OVER U.S. RTE. 6 (159TH STREET)
STATION 91+24.94 STRUCTURE NO. 016-2755
SCALE: DATE: 2/21/2008

3/13/2008 9:24:33 AM 17049.069\structures\2755_w_r_r\final design drawings\02-revisions and totbill of mat.dwg