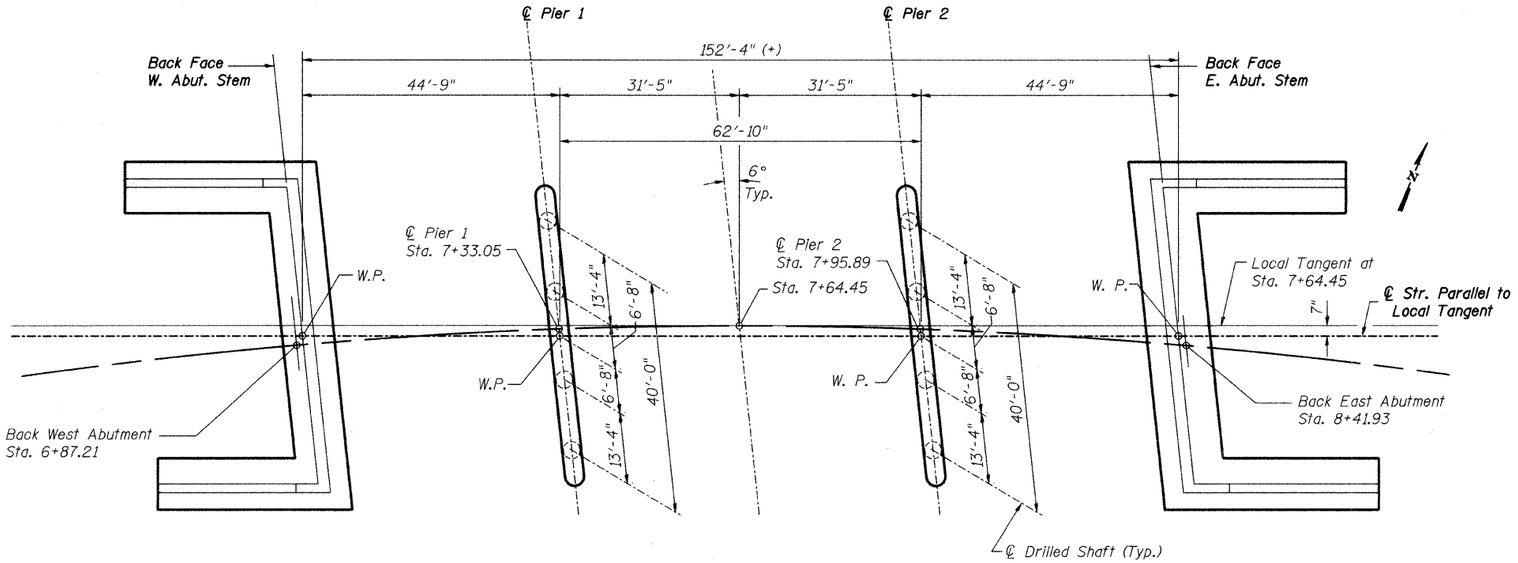
CONTRACT NO. 83827

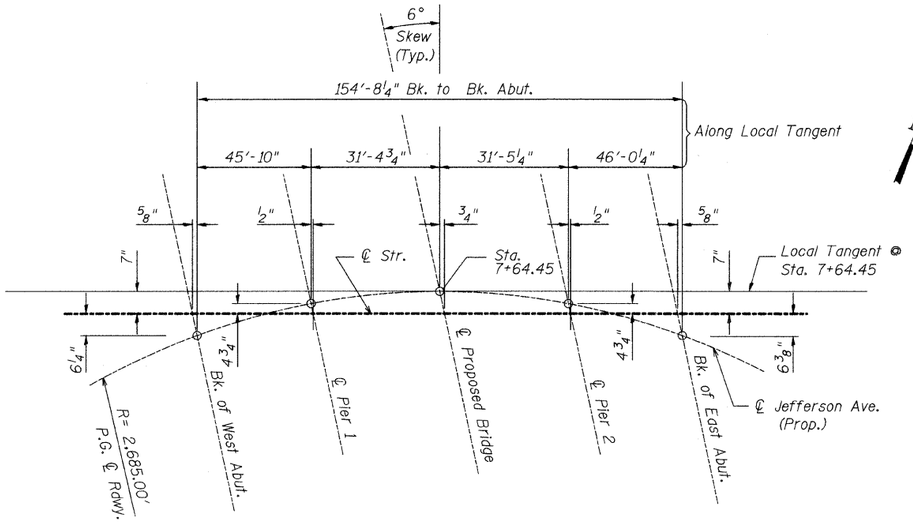
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	DUPAGE	106	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. S2 of S34 SHEETS

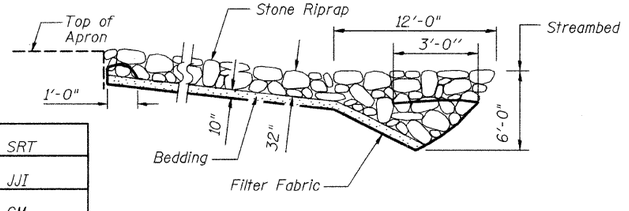
* 00-00116-00-BR



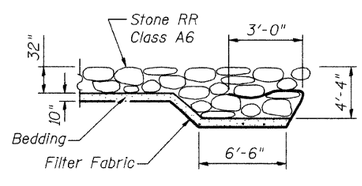
FOOTING LAYOUT



OFFSET SKETCH



SECTION B-B
TOE STONE RIPRAP ANCHOR DETAIL



SECTION A-A
FLANK STONE RIPRAP TREATMENT

TOTAL BILL OF MATERIAL *

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	750	750
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	1694	1694
Concrete Structures	Cu. Yd.	-	561.5	561.5
Concrete Superstructure	Cu. Yd.	283.6	-	283.6
Bridge Deck Grooving	Sq. Yd.	581	-	581
Pedestrian Rail (Special)	Foot	305	116	421
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	4536	-	4536
Reinforcement Bars	Pound	-	11,500	11,500
Reinforcement Bars, Epoxy Coated	Pound	60,740	119,350	180,090
Drilled Shaft in Soil	Cu.Yd.	-	131.1	131.1
Drilled Shaft in Rock	Cu.Yd.	-	94.1	94.1
Permanent Casing	Foot	-	416	416
Name Plates	Each	-	-	1
Bar Splicers	Each	106	212	318
Drainage Scuppers, DS-12	Each	6	-	6
Elastomeric Bearing Assembly, Type I	Each	18	-	18
Underwater Structure Excavation Protection Location 1	Each	-	1	1
Underwater Structure Excavation Protection Location 2	Each	-	1	1
Underwater Structure Excavation Protection Location 3	Each	-	1	1
Underwater Structure Excavation Protection Location 4	Each	-	1	1
Protective Coat	Sq. Yd.	983	-	983
Stone Riprap, Class A6	Sq. Yd.	-	-	184
Filter Fabric for use with Riprap	Sq. Yd.	-	-	184
Pipe Drains 4"	Foot	-	20	20
Rock Fill	Cu. Yd.	-	-	262
Concrete Headwall for Pipe Drains	Each	-	2	2
Geocomposite Wall Drain	Sq. Yd.	-	243	243
Controlled Low-Strength Material	Cu.Yd.	-	26	26
Anchor Bolts, 1" ϕ	Each	36	-	36
Anchor Bolts, 1½" ϕ	Each	36	-	36

* Does not include Bridge Approach Pavement (Special), Approach Pavement Pedestrian Screen, Off Bridge Pedestrian Screen Parapet Railing, Precast Concrete Junction Chamber, and CIP Reinforced Concrete End Section 78", Special. See Sheets S29, S30, S31, S32, S33 and S34 for additional quantities and details.

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts $^{7}/_{8}$ in. ϕ, holes $^{15}/_{16}$ in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 174,900 pounds

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Anchor bolts shall be set before bolting diaphragms over supports.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

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 and all splice plate material except fill plates.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

All Construction joints shall be bonded.

Excavation behind existing abutment walls shall be done before removing the existing superstructure.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number which was issued for the permanent construction.

The Contractor shall coordinate the placement of Rockfill with adjacent construction.

Abutment wingwalls shall be backfilled simultaneously on both faces.

All exposed structural steel of the bearings shall be cleaned and shop painted as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel."

No substitutions will be allowed when ASHTO M153 Type IV preformed joint filler is specified.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the bridge. See Special Provision for "Demolition Plans for Removal of Existing Structure"

DESIGNED	SRT
CHECKED	JJI
DRAWN	GM
CHECKED	JJI

Bollinger, Lach & Associates, Inc.

GENERAL NOTES AND TOTAL BILL OF MATERIAL

JEFFERSON AVENUE OVER WEST BRANCH DUPAGE RIVER FAU 3570 SECTION 00-00116-00-BR DUPAGE COUNTY STA. 7+64.45 STRUCTURE NUMBER 022-6756

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