

*The truss shall be designed by the manufacturer to withstand a minimum lateral load of 25lb/ft due to debris, ice, etc. This load shall be factored and combined with other loads per the Design Specifications. This load shall be applied along the length of the truss for a distance of at least 45 feet to produce the maximum force effect.

INDEX OF SHEETS

1. General Plan and Elevation
2. Abutments
3. Metal Shell piles
4. Boring Logs

GENERAL NOTES

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 No field welding is permitted except as specified in the contract documents.
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 The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1. Cost included in Pedestrian Truss Superstructure.
 The pedestrian truss fabrication will strictly adhere to the low beam, profile grade and other constraints of the design.
 Weathering steel shall not be used for the Pedestrian Truss Superstructure.

REFERENCE STANDARDS

Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction adopted January 1, 2012 and IDOT Supplemental and Recurring Special Provisions adopted January 1, 2014.

LOADING H-10
 or 90#/sq. ft. pedestrian load

DESIGN SPECIFICATIONS

2012 AASHTO Standard Specifications for Highway Bridges with 2013 Interims & 2009 AASHTO Guide Specifications for Design of Pedestrian Bridges

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

TOTAL BILL OF MATERIAL

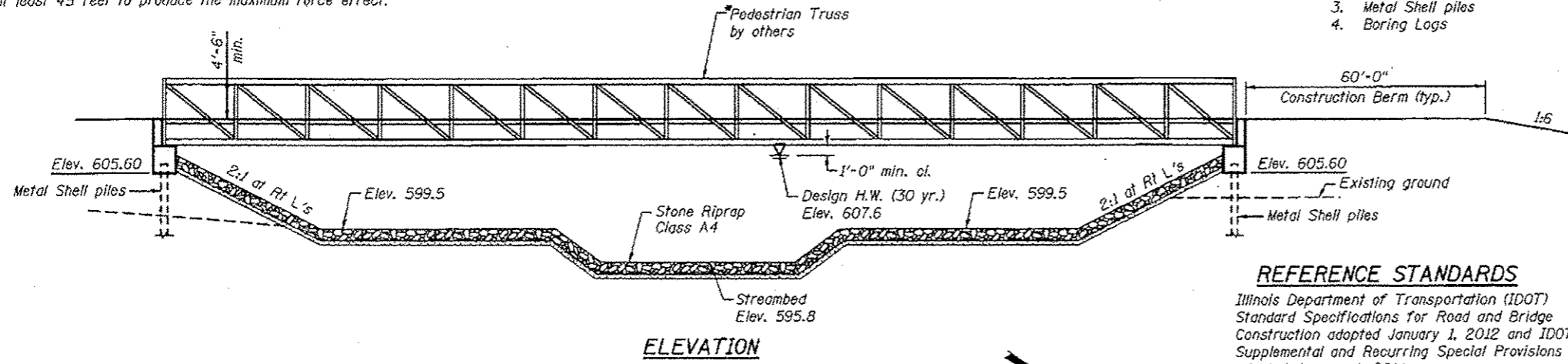
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.			786
Filter Fabric	Sq. Yd.			786
Structure Excavation	Cu. Yd.		44	44
Concrete Structures	Cu. Yd.		18.6	18.6
Reinforcement Bars, Epoxy Coated	Pound		3300	3300
Pedestrian Truss Superstructure	Sq. Ft.	1840		1840
Name Plates	Each			1
Furnishing Metal Shell Piles, 14" x 0.250"	Foot		102	102
Driving Piles	Foot		102	102
Test Pile Metal Shells	Each		2	2



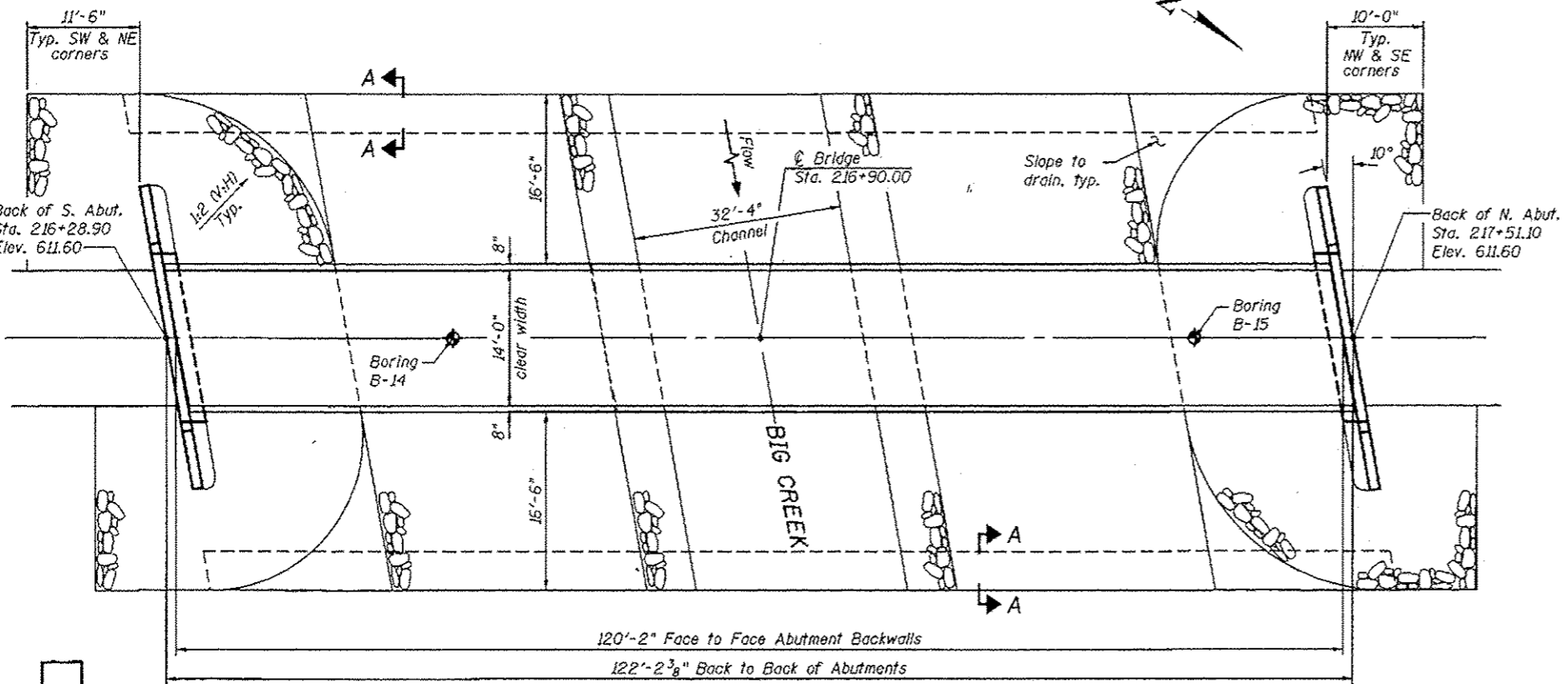
I certify to the best of my knowledge, information and belief, this bridge substructure design is structurally adequate for the Design Loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the 2009 AASHTO Guide Specifications for Design of Pedestrian Bridges.

Mary Coombe Bloxdorf
 ILLINOIS STRUCTURAL NO. 4859
 EXPIRES 11/30/14
 DATE: 08/04/14

**GENERAL PLAN AND ELEVATION
 PEDESTRIAN/BICYCLE PATH
 OVER BIG CREEK
 SECTION 10-P4002-00-BT
 CANTON PARK DISTRICT
 STATION 216+90.00**



ELEVATION



PLAN

WATERWAY DATA

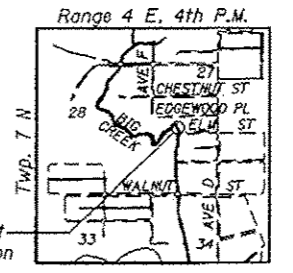
Character.....	Level & Cultivated
Drainage Area.....	10.60 Sq. Mi.
Design Discharge (30 yr.).....	2752 c.f.s.
Existing Opening.....	None
Required Opening.....	949 Sq. Ft.
Proposed Opening.....	949 Sq. Ft.
Created Head (30 yr. discharge).....	0 Ft.
Created Head (100 yr. flood).....	0 Ft.
100 Year Discharge.....	3605 c.f.s.

* Less than or equal to created heads caused by existing structures

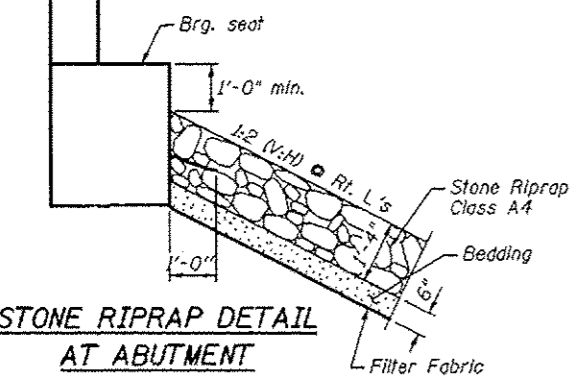
**BIG CREEK
 BUILT 20__ BY
 CANTON PARK DISTRICT
 SECTION 10-P4002-00-BT
 LOADING 90 PSF OR H-10**

NAME PLATE
 See Std. 515001

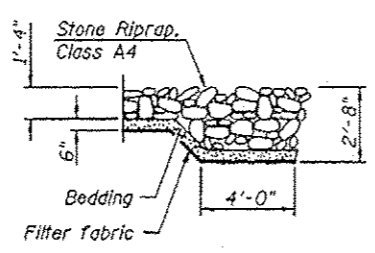
(Locate Name Plate at SE corner of Bridge. Contractor to coordinate mounting with the bridge manufacturer.)



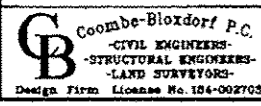
LOCATION SKETCH



STONE RIPRAP DETAIL AT ABUTMENT



SECTION A-A



USER NAME: JHM
 DESIGNED: CME
 CHECKED: MCB
 DRAWN: NMY
 CHECKED: MCB

DESIGNED: CME
 CHECKED: MCB
 DRAWN: NMY
 CHECKED: MCB

REVISED: 11/13/14
 REVISED: -
 REVISED: -
 REVISED: -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
 BRIDGE 2-2**
 SHEET NO. 1 OF 4 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-P4002-00-BT	FULTON	95	32
			CONTRACT NO.	89603
			ILLINOIS FED. AID PROJECT	TEB400115

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LOADING H-10

or 90#/sq. ft. pedestrian load

DESIGN SPECIFICATIONS

2012 AASHTO Standard Specifications for Highway Bridges with 2013 Interims & 2009 AASHTO Guide Specifications for Design of Pedestrian Bridges

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)

TOTAL BILL OF MATERIAL

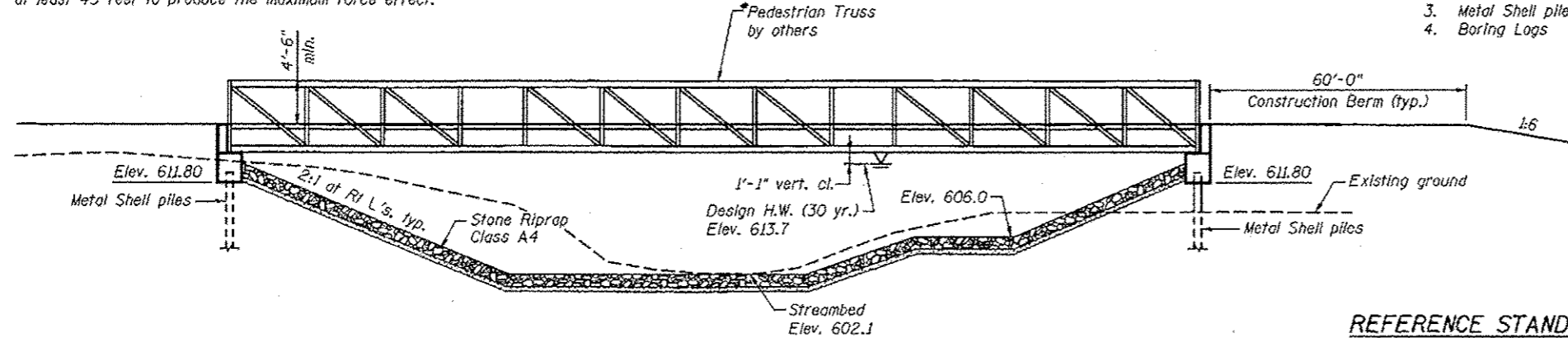
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.			683
Filter Fabric	Sq. Yd.			683
Structure Excavation	Cu. Yd.		47	47
Concrete Structures	Cu. Yd.		20.4	20.4
Reinforcement Bars, Epoxy Coated	Pound		3560	3560
Pedestrian Truss Superstructure	Sq. Ft.	1531		1531
Name Plates	Each			1
Furnishing Metal Shell Piles, 14" x 0.250"	Foot		80	80
Driving Piles	Foot		80	80
Test Pile Metal Shells	Each		2	2



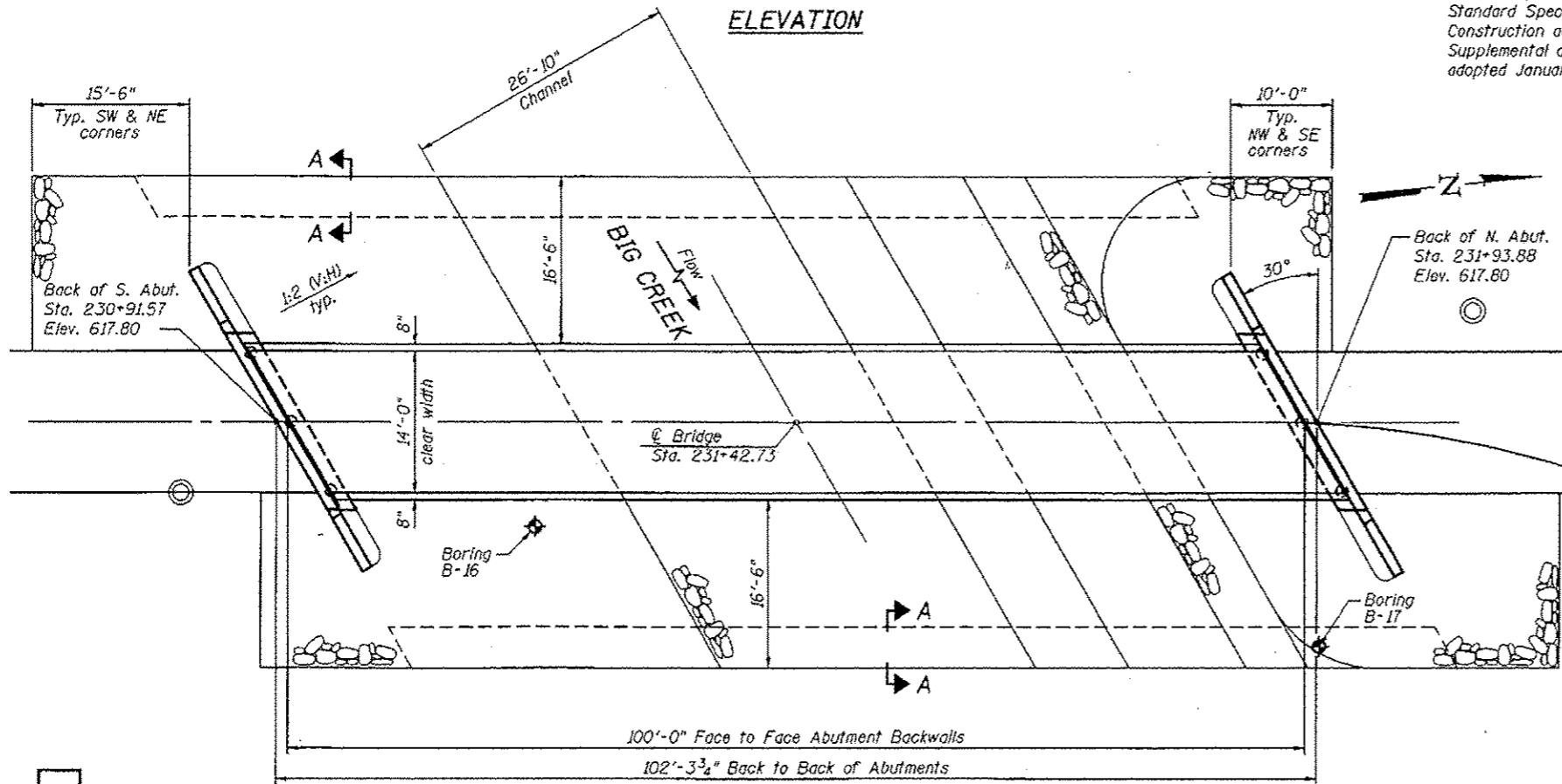
I certify to the best of my knowledge, information and belief, this bridge substructure design is structurally adequate for the Design Loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the 2009 AASHTO Guide Specifications for Design of Pedestrian Bridges.

Mary Coombe Bixdorf
 ILLINOIS STRUCTURAL NO. 4859
 EXPIRES 11/30/14
 DATE: 08/04/14

**GENERAL PLAN AND ELEVATION
 PEDESTRIAN/BICYCLE PATH
 OVER BIG CREEK
 SECTION 10-P4002-00-BT
 FULTON COUNTY
 STATION 231+42.73**



ELEVATION



PLAN

WATERWAY DATA

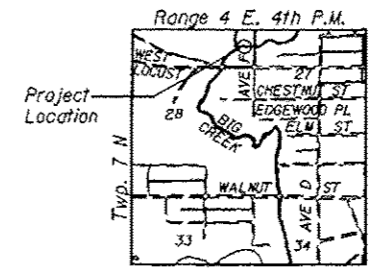
Character	Level & Cultivated
Drainage Area	5.36 Sq. Mi.
Design Discharge (30 yr.)	1705 c.f.s.
Existing Opening	None
Required Opening	541 Sq. Ft.
Proposed Opening	541 Sq. Ft.
Created Head (30 yr. discharge)	0 Ft.
Created Head (100 yr. flood)	0 Ft.
100 Year Discharge	2198 c.f.s.

* Less than or equal to created heads caused by existing structures

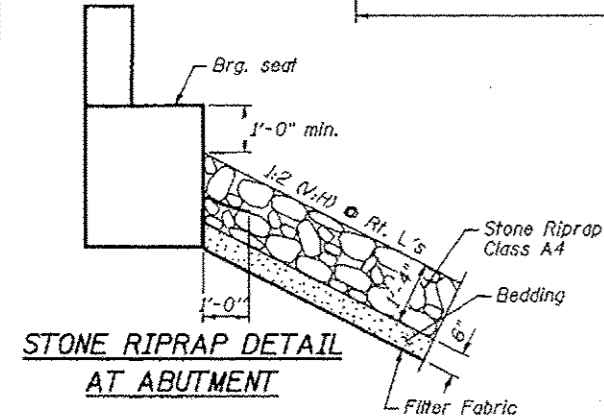
**BIG CREEK
 BUILT 20__ BY
 CANTON PARK DISTRICT
 SECTION 10-P4002-00-BT
 LOADING 90 PSF OR H-10**

NAME PLATE

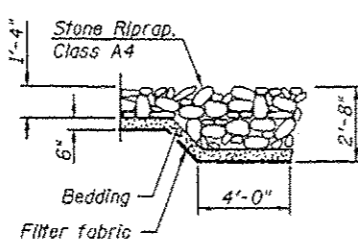
See Std. 515001
 (Locate Name Plate at SE corner of Bridge. Contractor to coordinate mounting with the bridge manufacturer.)



LOCATION SKETCH



STONE RIPRAP DETAIL AT ABUTMENT



SECTION A-A

Coombe-Bixdorf P.C.
 CIVIL ENGINEERS
 STRUCTURAL ENGINEERS
 LAND SURVEYORS
 Design Firm License No. 104-002703

USER NAME	J.M.L.	DESIGNED	CME	REVISED	11/13/14
PLOT SCALE	1/8" = 1'-0"	CHECKED	MCB	REVISED	
PLOT DATE	6/4/2014	DRAWN	MMY	REVISED	
		CHECKED	MCB	REVISED	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
 BRIDGE 2-3
 SHEET NO. 1 OF 4 SHEETS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-P4002-00-BT	FULTON	95	36
				CONTRACT NO. 89603
				ILLINOIS FED. AID PROJECT YD-000151