

029

11-09-2018 LETTING ITEM 029

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	D7 BRIDGE PAINTING 2019-2	CUMBERLAND	7	3
ILLINOIS CONTRACT NO. 74876				

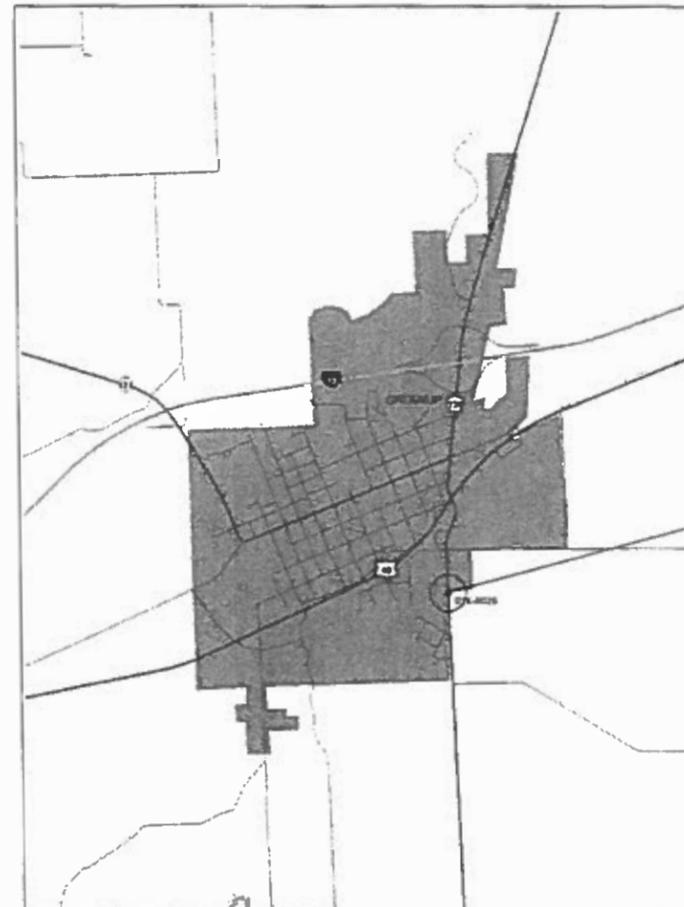
D-97-063-18

FOR INDEX OF SHEETS, SEE SHEET NO. 2

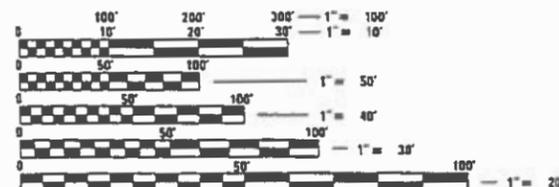
PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 116 (ILL 130)
SECTION D7 BRIDGE PAINTING 2019-2
PROJECT STP-0ZLU(383)
BRIDGE PAINTING
CUMBERLAND COUNTY

C-97-113-18



018-0026



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: TOM RONAN
PROJECT MANAGER: TOM RONAN

CONTRACT NO. 74876

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED AUGUST 09 20 18
Jeffrey M. Smith
REGIONAL ENGINEER

Oct 5 20 18
Paul E. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 5 20 18
Paul E. Etk
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTION
3	SUMMARY OF QUANTITIES
4	LOCATION MAP
5-7	EXISTING STRUCTURE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 7:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, FOR SPEEDS >= 45 MPH
701901-07	TRAFFIC CONTROL DEVICES

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED AT STRUCTURE NUMBER 018-0026 ON ILLINOIS ROUTE 130 LOCATED 1.5 MILES SOUTH OF US ROUTE 40 IN CUMBERLAND COUNTY IN DISTRICT 7.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING THE BRIDGE AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS.

THE STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED AS SPECIFIED IN THE PLANS AND THE SPECIAL PROVISIONS.

ALL DECK DRAINS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THEIR OWN EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ONLY STRUCTURAL STEEL IS TO BE PAINTED. ALL OTHER SURFACES WILL BE PROTECTED FROM BEING PAINTED. ALL PAINT AND OVERSPRAY WILL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

THE SSPC QP1 AND QP2 PAINTING CONTRACTOR CERTIFICATION WILL BE REQUIRED FOR THIS PROJECT.

LOCATION

BRIDGE # 1

ROUTE: FAP 116

MARKED: ILL 130

SECTION: 113VBR

STATION: 498+60.60

STRUCTURE NUMBER: 018-0026

TYPE OF BRIDGES: WIDE FLANGE I BEAMS-3 SPANS - 8 BEAMS

LOCATION: 1.5 MILES SOUTH OF US ROUTE 40

FEATURE CARRIED/SPANNED: ILLINOIS ROUTE 130 OVER THE CSXT RAILROAD

COLOR OF THE FINISH COAT SHALL BE GREEN, MUNSELL 10B 3/6.

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL STRUCTURAL STEEL, ON ALL BEAMS, BEARINGS, AND DIAPHRAGMS, WITHIN 5' (MEASURED ALONG THE BEAM) OF THE ABUTMENTS AND ANY EXPANSION JOINTS SHALL BE CLEANED BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. THE OUTSIDE AND BOTTOMS OF BOTH FASCIA BEAMS, FOR THE ENTIRE LENGTH OF THE BEAMS, SHALL BE CLEANED IN THEIR ENTIRETY BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE METAL BLAST CLEANING - SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U.

TWO AIR MONITORS WILL BE REQUIRED AT THIS LOCATION.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, GENERAL NOTES
& LOCATION DESCRIPTION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	D7 BRIDGE PAINTING 2019-2	CUMBERLAND	7	2
CONTRACT NO. 74876				
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

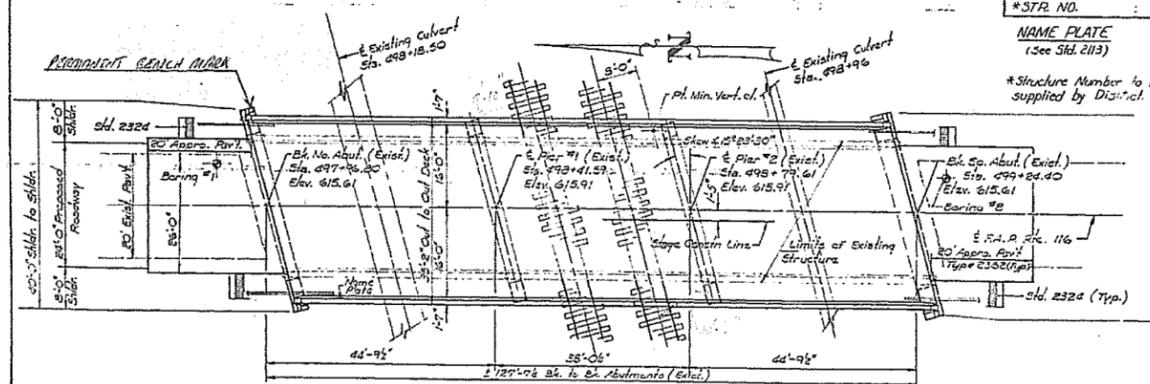
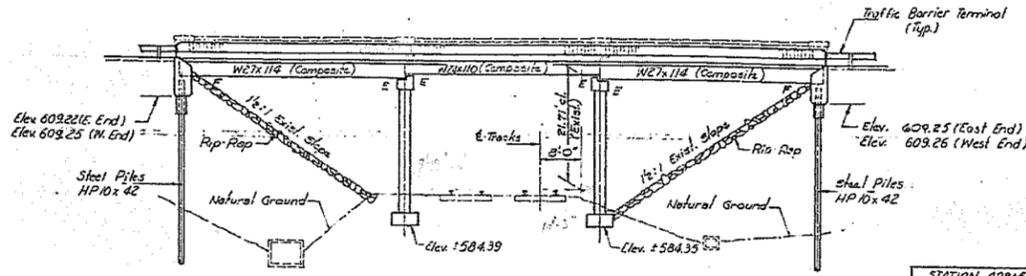
NO.	DATE	BY	REVISION
1	11/16/11	STEFFENK	ISSUED FOR CONSTRUCTION
2	12/12/11	STEFFENK	REVISED
3	1/10/12	STEFFENK	REVISED
4	1/10/12	STEFFENK	REVISED
5	1/10/12	STEFFENK	REVISED
6	1/10/12	STEFFENK	REVISED
7	1/10/12	STEFFENK	REVISED
8	1/10/12	STEFFENK	REVISED
9	1/10/12	STEFFENK	REVISED
10	1/10/12	STEFFENK	REVISED

SHEET NO. 1
13 SHEETS

E.M. North corner metal expansion plate right barrier.
Station 498+25 - Elev. 616.30
Existing structure: #C18-0026 built as 521 Rte. 130, Section 113 1/2-116, of Sta. 498+60.6 in 1934. The existing three span 12'-4" long, x 20'-4" wide, steel beam superstr. on pile bent abutments and concrete column piers. Superstructure shall be widened to accept new exterior wide flange beams. Superstructure shall be widened to 35'-2".
Site construction shall be widened so as traffic can be maintained during reconstruction.

GENERAL NOTES

See Proposal for Boring Data.
Fasteners shall be high strength bolts. Bolts 3/4", open holes 9/16", unless otherwise noted.
Calculated weight of Structural Steel = 32,900 Lbs.
The basic lead silica chromate paint system shall be used for shop and field painting of Structural Steel.
Field welding of construction accessories will not be permitted in the bottom flange of beams nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting diaphragms over supports.
All expansion joints, corrosion inhibitors, etc. covered in the Special Provisions, shall be used in the concrete for class X concrete for parapets.
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.
Expansion bolts shall consist of self drilling expansion anchors and 3/4" x 12" heated bolts.
All existing structural steel shall be cleaned by Method I and painted with three coats of the basic lead silica chromate paint system.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
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 flanges and webs of the wide flange beams.



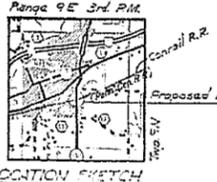
Left (East)	Right (West)
591.56 S.	590.69 S.
591.46 S.	590.70 S.
591.37 N.	590.60 N.
591.26 N.	590.52 N.
591.24 S.	590.47 S.
591.32 S.	590.46 S.
591.35 N.	590.36 N.
591.04 N.	590.32 N.
591.09 S.	
591.01 S.	
590.93 N.	
590.82 N.	
590.69 S.	
590.70 S.	
590.60 N.	
590.52 N.	
590.47 S.	
590.46 S.	
590.36 N.	
590.32 N.	

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Concrete Deck	Cu. Yd.	7		7
Concrete Removal	Cu. Yd.		4	4
Structure Excavation	Cu. Yd.		95	95
Protective Coat	Sq. Yd.	560		560
Structural Steel	Lump Sum		1	1
Steel Shear Connectors	Each	2214		2214
Class I Concrete	Cu. Yd.	141.7	42.0	183.7
Reinforcement Bars	Pound	13,100	4,480	17,580
Reinforcement Bars (Epoxy Coated)	Pound	16,480		16,480
Prefabricated Joint Seal	Lbs.	74		74
Expansion Bolts 3/4" x 12"	Each		204	204
Temporary Bridge Post	Lin. Ft.	128		128
Uplastic Bearing Assembly, Type I	Each	0		0
Steel Piles (HP10x42)	Lin. Ft.		154	154
Shoring	Sq. Yd.		350	350
Cleaning and Painting Steel Bridge	Lump Sum		1	1
Name Plates	Each		1	1

PROFILE CONRAIL RAILROAD
(Top of rail elevations)

DESIGNED	Richard Brunette	EXAMINED	June 10 1990
CHECKED	7/1/12	PASSED	
DRAWN	Steffenk	APPROVED	
CHECKED	7/1/12		



GENERAL PLAN & ELEVATION
F.A.P. Rte. 116 Over CONRAIL RAIL ROAD
F.A.P. Rte. 116 Section 113 VSR
CUMBERLAND COUNTY
Sta. 498+60.60

MODEL: Default
FILE: \\nas01\pww\illinois\pww\pww\DOT\Documents\DOT\Office\Steffenk\116\018-F-116(1)-P1-Plan.dwg

USER NAME = steffenk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/16/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN SHEETS
018-0026

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	D7 BRIDGE PAINTING 2019-2	CUMBERLAND	7	5
			CONTRACT NO. 74876	
ILLINOIS FED. AID PROJECT				

