

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE PAINTING 2018-3	CUMBERLAND	7	
		ILLINOIS	CONTRACT NO. 74818	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

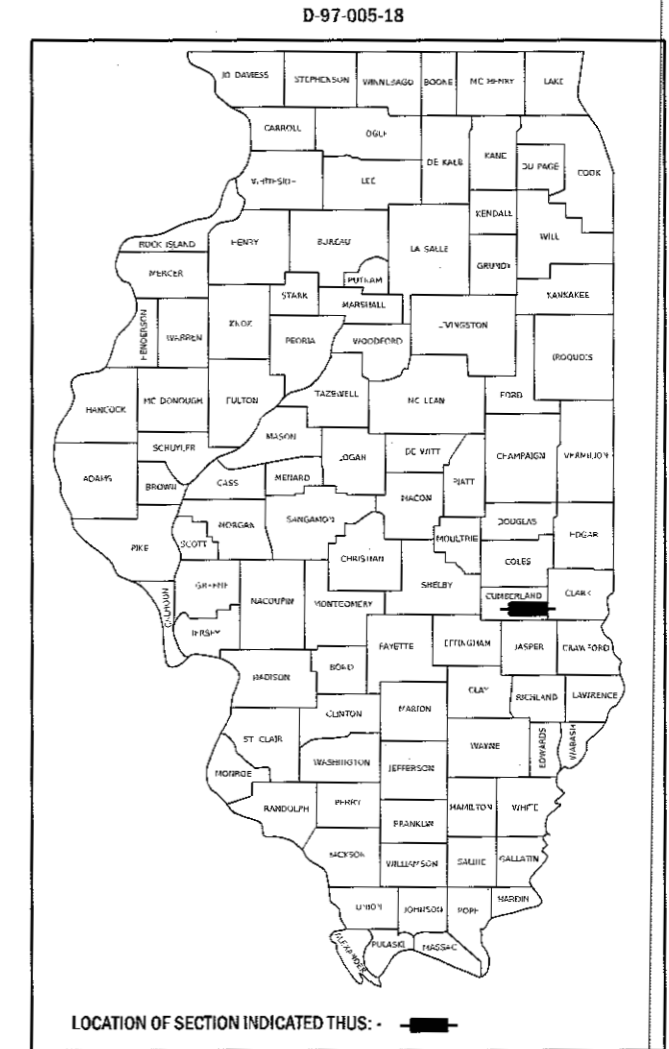
ADT (I-70) 20,700
ADT (ILL 121) 3,250

**PROPOSED
HIGHWAY PLANS**

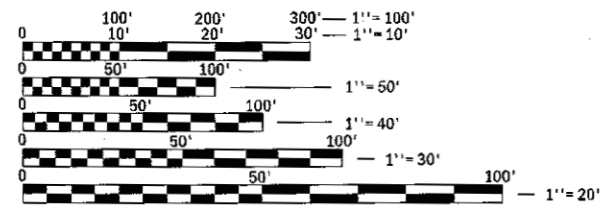
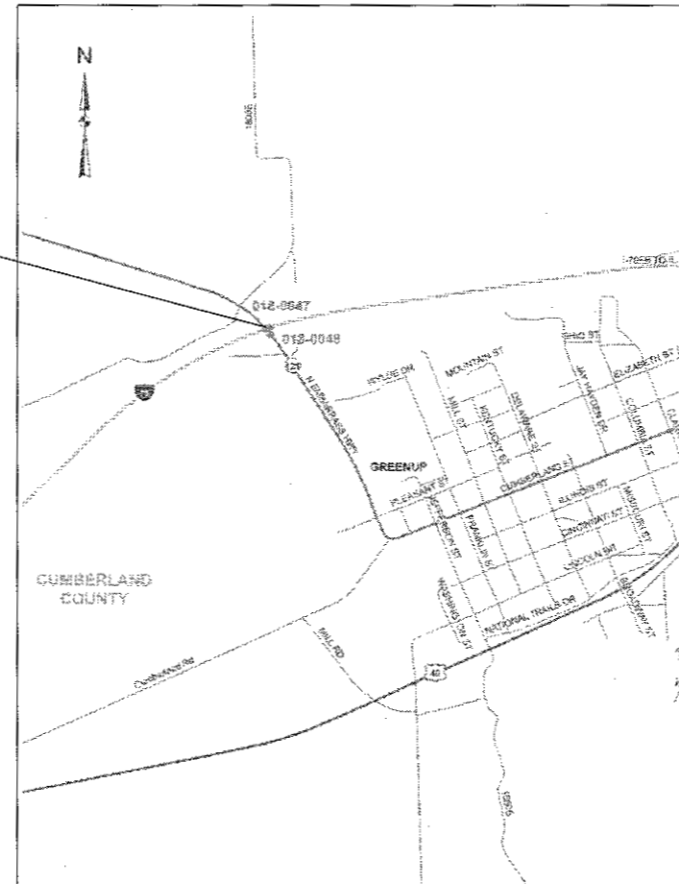
F.A.I. ROUTE 70 (I-70)
SECTION D7 BRIDGE PAINTING 2018-3

BRIDGE PAINTING
CUMBERLAND COUNTY

C-97-008-18



PROJECT
LOCATION



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
PHONE: (217) 342-8320
CONTRACT NO. 74818

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 31 20 17
Jeffrey M South / 19
REGIONAL ENGINEER

Oct 13 20 17
Maureen M. Addis, PE / 6
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 13 20 17
[Signature] / 2
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, & LOCATION DESCRIPTIONS
3	SUMMARY OF QUANTITIES
4-7	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
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701321-16	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-06	TRAFFIC CONTROL DEVICES

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016; THE SUPPLEMENTAL SPECIFICATIONS, THE RECURRING SPECIAL PROVISIONS, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE PROPOSED PROJECT IS LOCATED AT ONE LOCATION IN CUMBERLAND COUNTY. THERE ARE A TOTAL OF TWO STRUCTURES TO BE PAINTED. THE STRUCTURES CARRY EASTBOUND AND WESTBOUND I-70 OVER ILLINOIS ROUTE 121 AT GREENUP.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING TWO BRIDGES AT ONE LOCATION AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS. THE STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED AS SPECIFIED IN 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 SHALL BE PROTECTED FROM BEING PAINTED. ALL PAINT AND OVERSPRAY SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

THE SSPC OPI PAINTING CONTRACTOR CERTIFICATION WILL BE REQUIRED FOR THIS PROJECT.

LOCATION 1

BRIDGE #1
 ROUTE: FAI 70
 MARKED: I-70
 SECTION: 18-47HB
 STATION: 142+93.20
 STRUCTURE NUMBER: 018-0047

TYPE OF BRIDGE: Wide Flange I-Beams-3 Spans (7 Beams)
 LOCATION: I-70 over Illinois Route 121
 FEATURE CARRIED/SPANNED: I-70 over Illinois Route 121

COLOR OF THE FINISH COAT SHALL BE GRAY, MUNSSELL 5B 7/1.

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 within 5' (measured along the beam) of the abutments, including beams, bearings and diaphragms, shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. The entire outside and bottom of the bottom flange of both fascia beams, for the entire length of the beams, shall be cleaned 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.

No air monitors will be required at this location.

LOCATION 1

BRIDGE #2
 ROUTE: FAI 70
 MARKED: I-70
 SECTION: 18-47HB
 STATION: 142+93.20
 STRUCTURE NUMBERS: 018-0048

TYPE OF BRIDGE: Wide Flange I-Beams-3 Spans (7 Beams)
 LOCATION: I-70 over Illinois Route 121
 FEATURE CARRIED/SPANNED: I-70 over Illinois Route 121

COLOR OF THE FINISH COAT SHALL BE GRAY, MUNSSELL 5B 7/1.

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 within 5' (measured along the beam) of the abutments, including beams, bearings and diaphragms, shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. The entire outside and bottom of the bottom flange of both fascia beams, for the entire length of the beams, shall be cleaned 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.

No air monitors will be required at this location.

MODEL: Default
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 PROJECT: ILLINOIS STATE DEPARTMENT OF TRANSPORTATION
 CONTRACT: 74818
 SHEET: 2 OF 7
 DATE: 9/1/2017

USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		INDEX OF SHEETS, GENERAL NOTES & LOCATION DESCRIPTIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
steffenmk	DRAWN	REVISED			SCALE: SHEET OF SHEETS STA. TO STA.			70	D7 BRIDGE PAINTING 2018-3	CUMBERLAND	7	2
PLOT SCALE = 100.0000' / in.	CHECKED	REVISED						CONTRACT NO. 74818				
PLOT DATE = 9/1/2017	DATE	REVISED						ILLINOIS FED. AID PROJECT				

RURAL
100%
STATE

RURAL
100%
STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
35650400	BASE COURSE WIDENING 9"	SO YD	170	170		
67100100	MOBILIZATION	LSUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375	375		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	102	102		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
Z0007114	NON- CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	LSUM	1	1		
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	LSUM	1	1		
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	LSUM	1	1		

MODEL D:\4411...
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USER NAME = staffennrk	DESIGNED -	REVISED -
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PLOT DATE = 9/1/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE PAINTING 2018-3	CUMBERLAND	7	3
CONTRACT NO. 74818			ILLINOIS FED. AID PROJECT	

Bench Mark: Chiseled square on the SE wingwall on the W.B. Structure over IL Rte. 121.
Elevation = 556.86.

Existing Structure: S.N. 018-0047 (Westbound) and 018-0048 (Eastbound) built in 1969 as F.A.I. Rt. 70 Section 18-47HB at Station 142+93.20. The superstructure consists of super-elevated three span continuous steel beams with a reinforced concrete deck slab. All substructure units are supported off of steel H-piling. The substructure consists of open abutments and grade separation piers on piled footings. The structure length measures 138'-5" bk-to-bk of abutments and 42'-0" out-to-out of deck with a 24°37'10" skew. Spans 1, 2, & 3 are 39'-8", 51'-9", and 41'-8" respectively. Existing concrete decks, approach slabs, abutment backwalls and abutment bearings to be removed and replaced. Slope walls to be repaired.

Traffic to be maintained using cross-overs.

No Salvage

Traffic Barrier Terminal Std. 631031 Type 6, typ. Median Terminal at exit ends to be removed following staged traffic.

SCOPE OF WORK:

Repair concrete slope wall.
Remove existing concrete deck, approach slabs and abutment backwalls.
Jack and raise the existing beams 3" g.
Install concrete pedestals and new bearings of the piers and abutments at SN. 018-0048 (E.B.).
Install new abutment bearings and steel extensions at SN. 018-0047 (W.B.).
Construct new backwalls.
Construct new deck, approach slabs and install expansion joints.

LOADING HS20-44 & ALT.

Allow 25#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock acceleration coefficient (A) = 0.067
Site Coefficient (S) = 1.0

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36)

FIELD UNITS (EXIST. CONSTRUCTION)

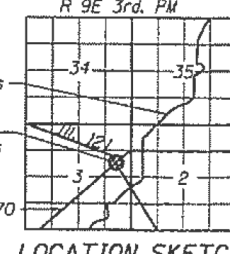
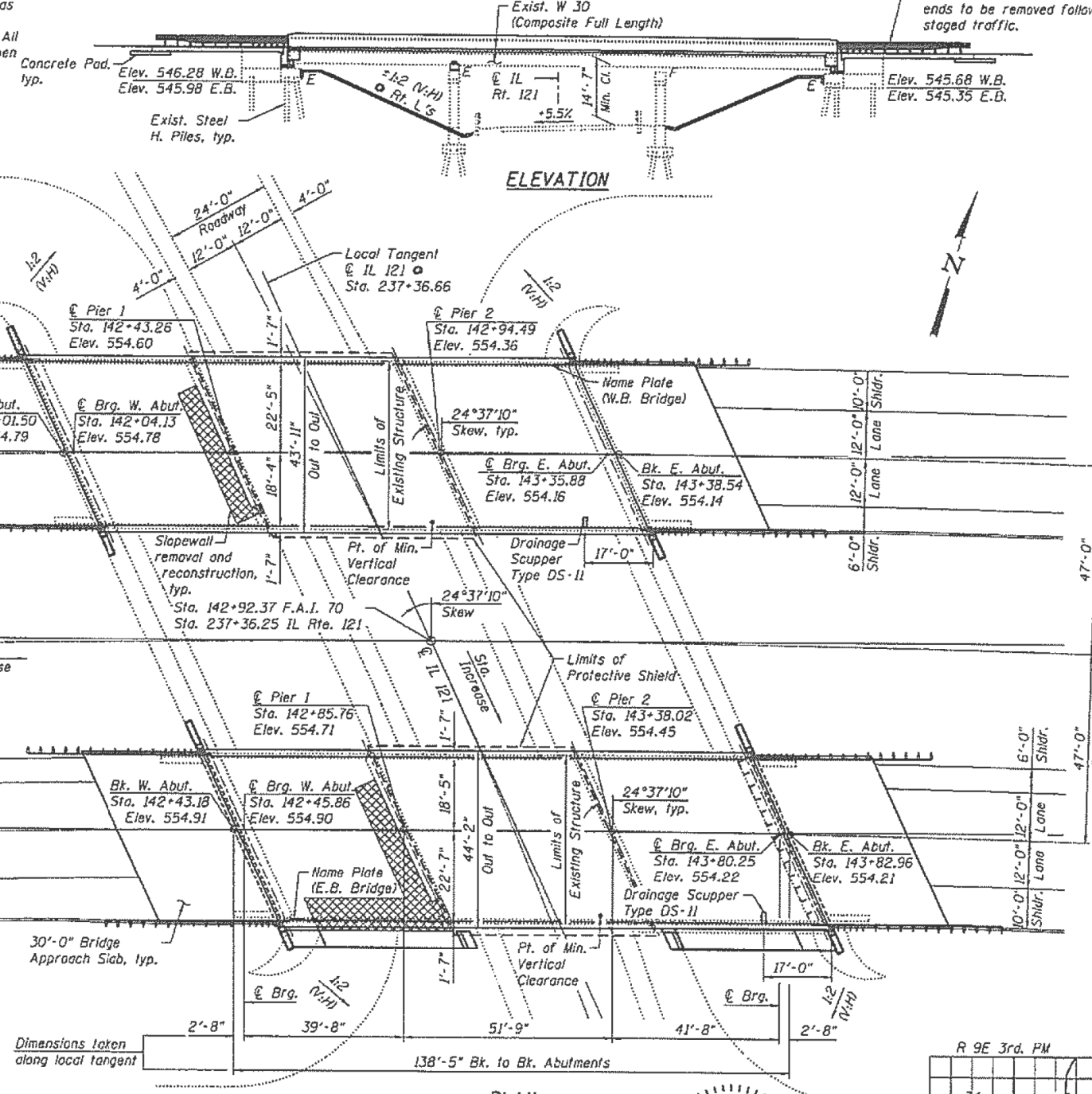
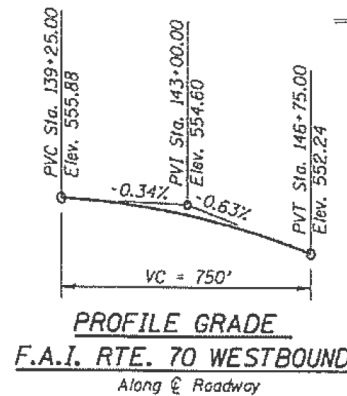
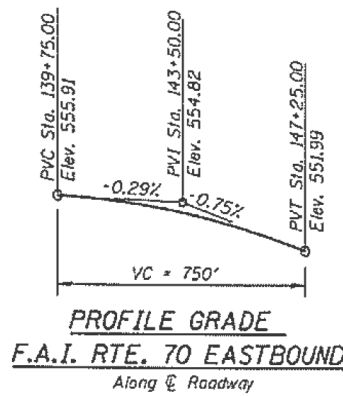
fy = 36,000 psi (Structural Steel)
f'c = 3,500 psi (Substructure)
fy = 40,000 psi (Reinforcement)

© F.A.I. 70 CURVE DATA

Δ = 35°-39'-03"
D = 0°-59'-59"
T = 1842.82
L = 3565.95'
E = 289.00'
R = 5730.98'
S.E. = 0.028 f1/f1
P.C. = Sta. 117+61.09
P.T. = Sta. 153+27.05
P.I. = Sta. 136+03.91

© IL 121 CURVE DATA

Δ = 39°-52'-32"
D = 3°-27'-28"
T = 601.08
L = 1153.24'
E = 105.65'
R = 1657.04'
S.E. = ±0.055 f1/f1
P.C. = Sta. 228+87.80
P.T. = Sta. 240+41.04
P.I. = Sta. 234+88.88



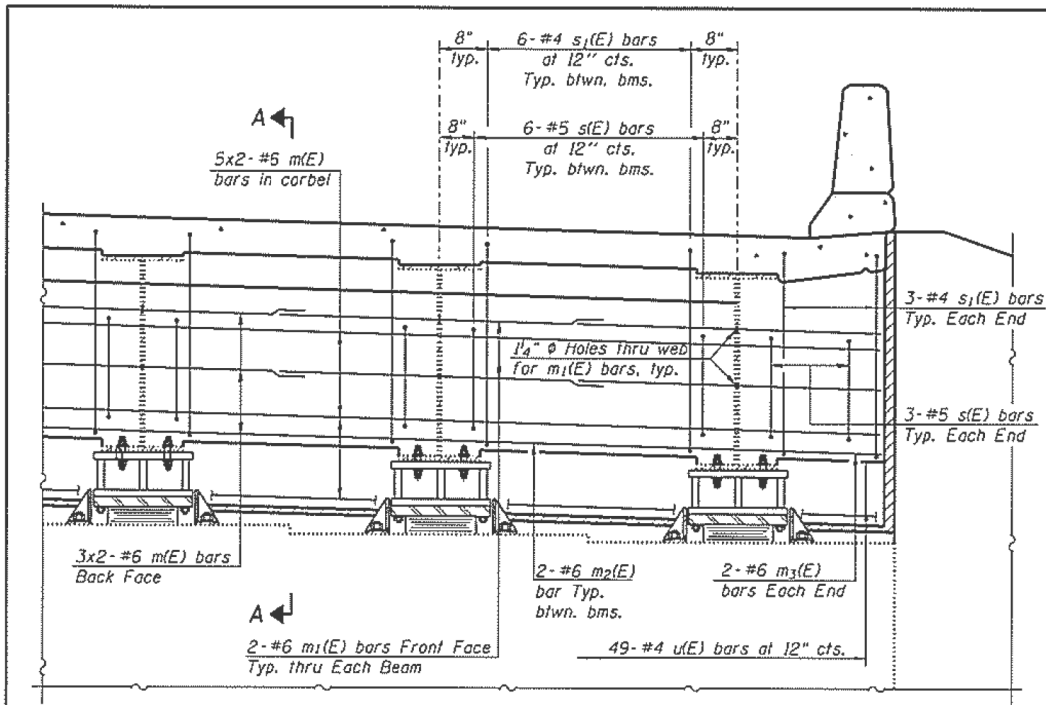
GENERAL PLAN & ELEVATION

F.A.I. 70
OVER ILL ROUTE 121
SEC. (18-47B, 18-47HB) BR
CUMBERLAND COUNTY
STATION 142+93.20
STRUCTURE NO.
018-0047 (W.B.) & 018-0048 (E.B.)

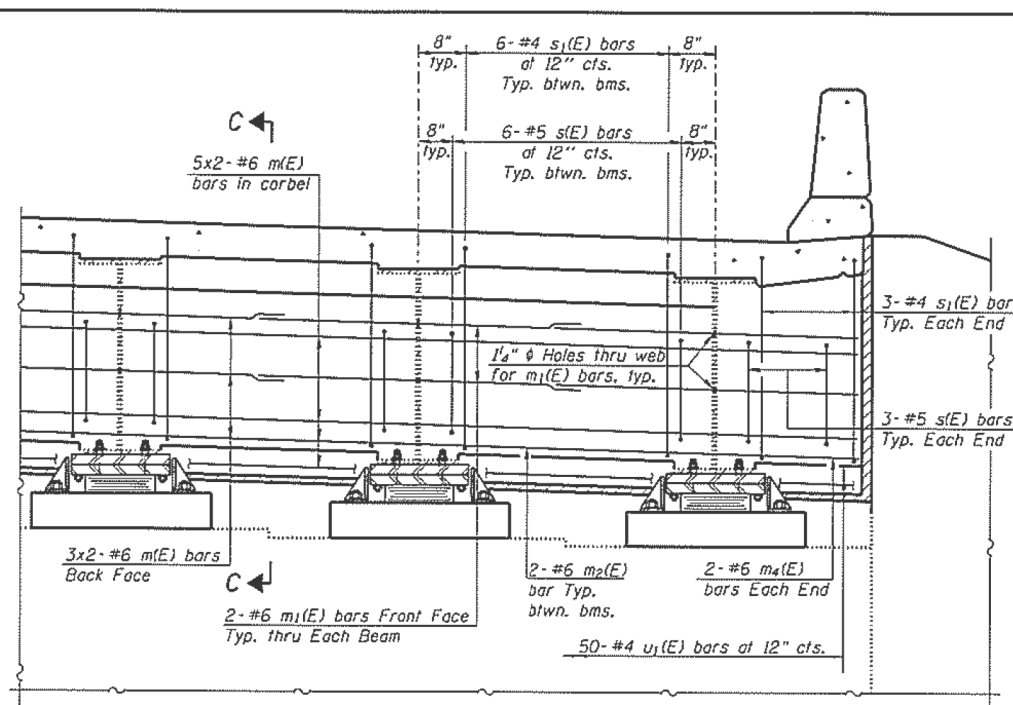
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	F.A.I. RTE.	SECTION	COUNTY				TOTAL SHEETS	SHEET NO.								
70	118-47B, 18-47HB BR	CUMBERLAND	147	59												
PLOT SCALE = 3/32" = 1' / in. PLOT DATE = 8/14/2012	CHECKED - DL	REVISED -	REVISED -	CONTRACT NO. 74466												

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	F.A.I. RTE.	SECTION	COUNTY				TOTAL SHEETS	SHEET NO.								
70	D7 BRIDGE PAINTING 2018-3	CUMBERLAND	7	4												
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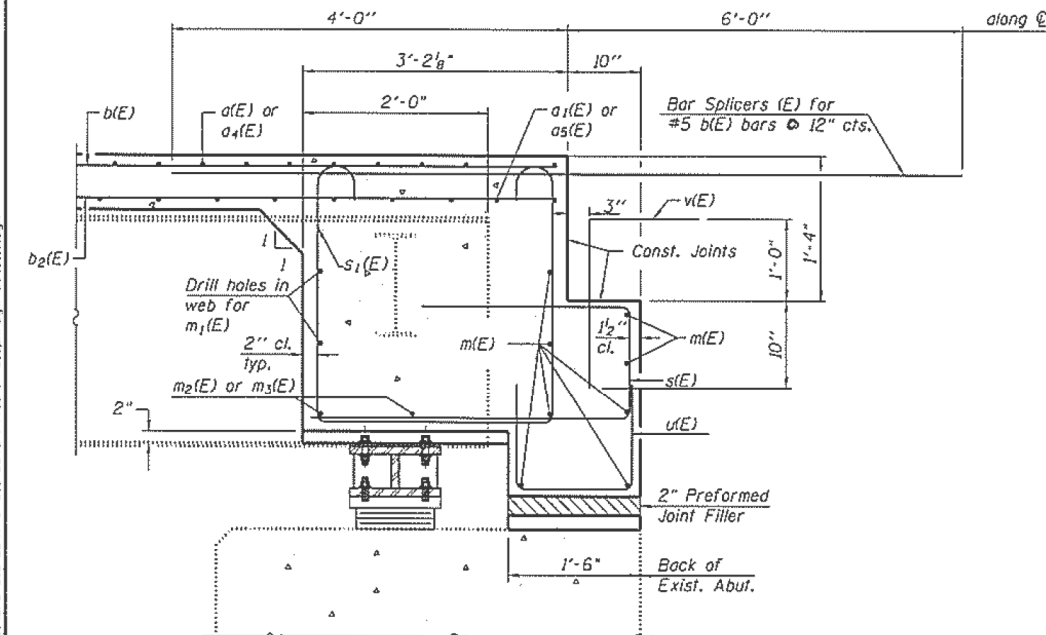
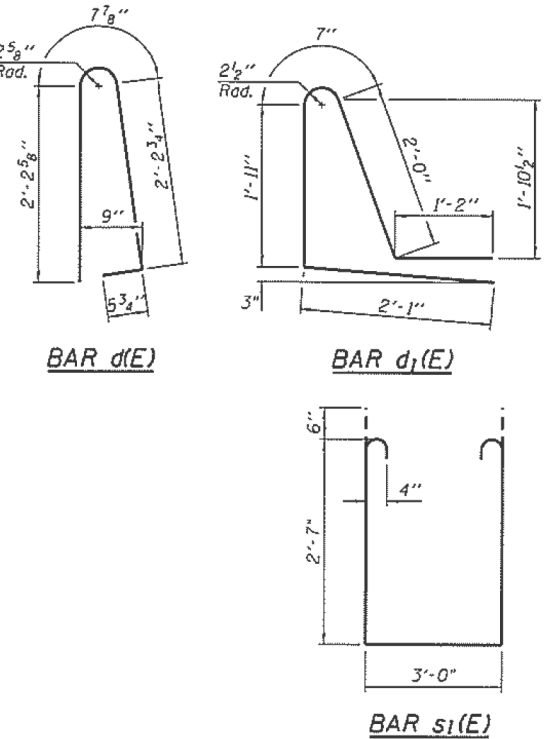
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DIAPHRAGM ELEVATION AT W.B. ABUTMENTS

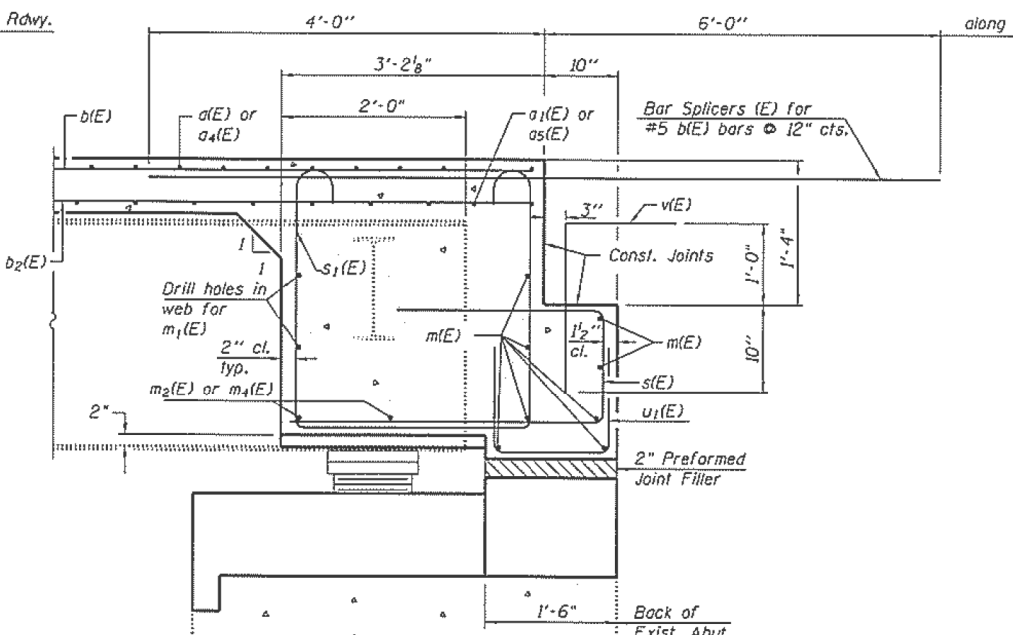


DIAPHRAGM ELEVATION AT E.B. ABUTMENTS



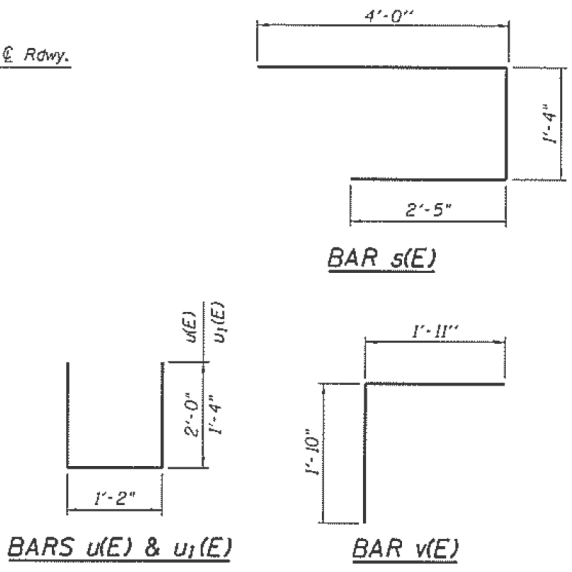
SECTION A-A

Dimensions at right angles to abutment, except as shown.



SECTION C-C

Dimensions at right angles to abutment, except as shown.



NOTES:

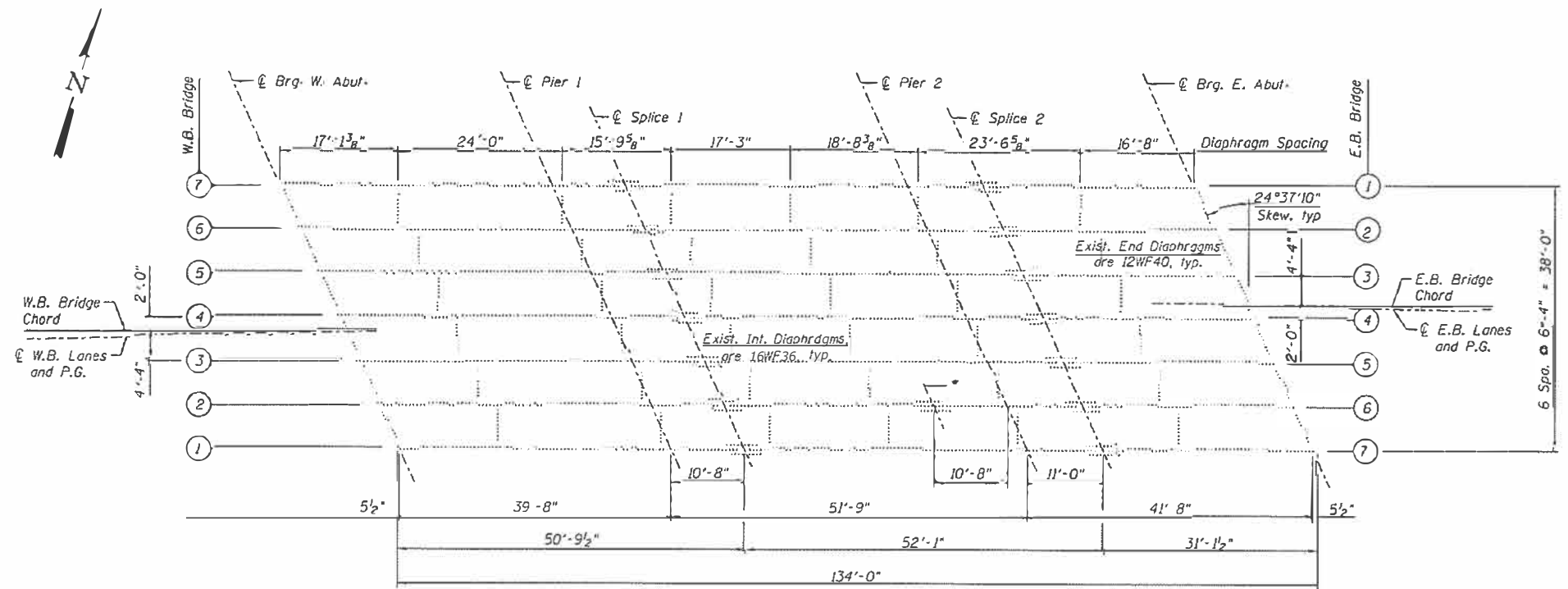
1. Reinforcement bars in diaphragm are billed with superstructure on sheet S-13.
2. Concrete in diaphragm is included with Concrete Superstructure on sheet S-13.
3. The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP
#6 bar = 3'-4"

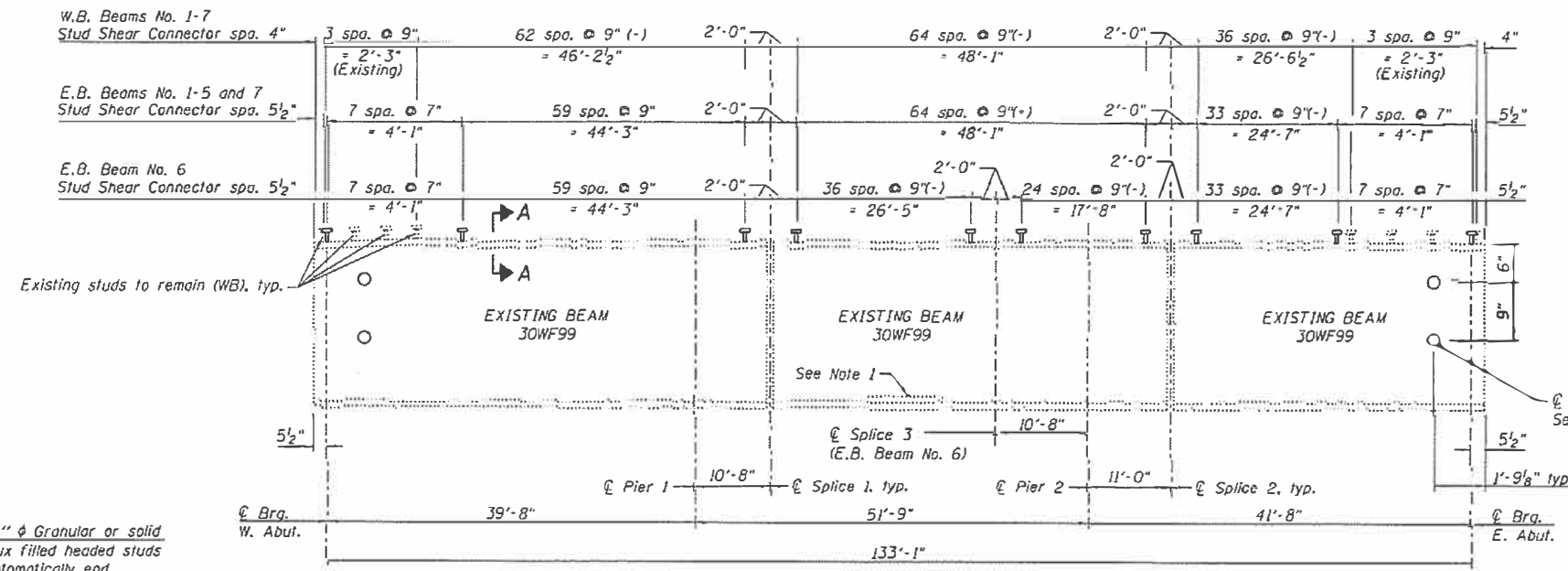
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	PLOT SCALE = 1/8" = 1'-0"	CHECKED - MHT	REVISED -		SN 018-0047 (W.B.) & 018-0048 (E.B.)	70	118-478, 18-47HIBR	CUMBERLAND	147	72	
	PLOT DATE = 8/14/2012	DRAWN - RD	REVISED -		SHEET NO. 5-14 OF 5-34 SHEETS	CONTRACT NO. 74466		ILLINOIS FED. AID PROJECT			

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	PLOT SCALE = 1/8" = 1'-0"	DRAWN -	REVISED -		SN 018-0047 & 0048	70	D7 BRIDGE PAINTING 2018-3	CUMBERLAND	7	5	
	PLOT DATE = 9/1/2017	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 74818		ILLINOIS FED. AID PROJECT			

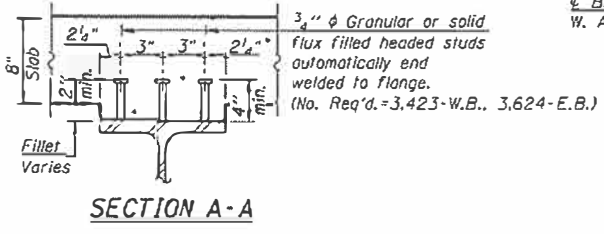
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 N:\PROJ\0003377\00\0003377\07\Design\Structure\ACAD\BIBED\0047 & 018-0048-74466-14 Diaphragm Details.dgn



PLAN * @ Splice 3 (E.B. Beam No. 6 only)



BEAM ELEVATION



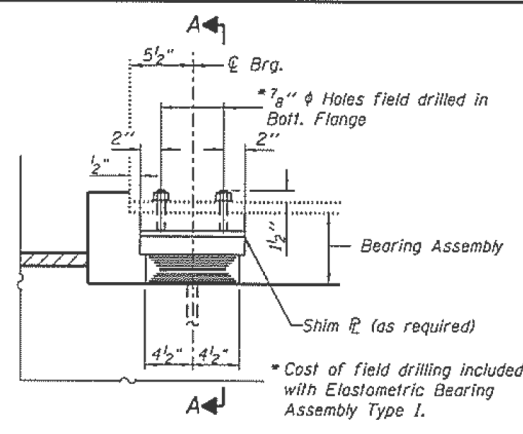
NOTES:
 1. Strengthening Plates were added to E.B. Beam No. 7 during 2005.

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	CHECKED = MHT DRAWN = RD PLOT DATE = 8/14/2012	REVISED = REVISED = REVISED =	70			07 BRIDGE PAINTING 2018-3	CUMBERLAND	147	76	
						CONTRACT NO. 74466		ILLINOIS FED. AID PROJECT		

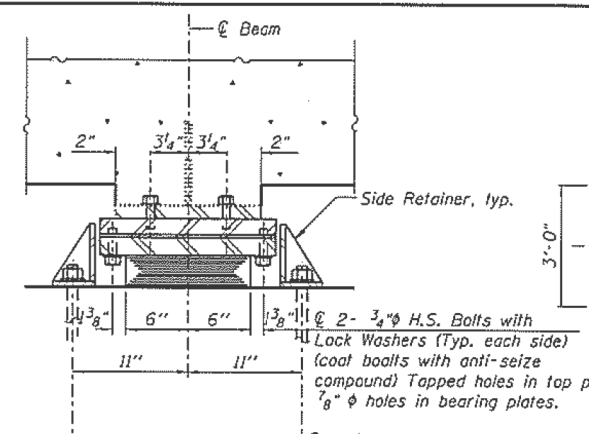
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CHECKED = MHT DRAWN = RD PLOT DATE = 9/1/2017	REVISED = REVISED = REVISED =	70			D7 BRIDGE PAINTING 2018-3	CUMBERLAND	7	6	
					CONTRACT NO. 74818		ILLINOIS FED. AID PROJECT		

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ELEVATION AT WEST ABUTMENT

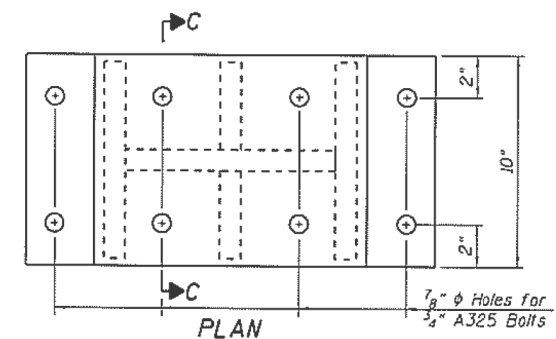
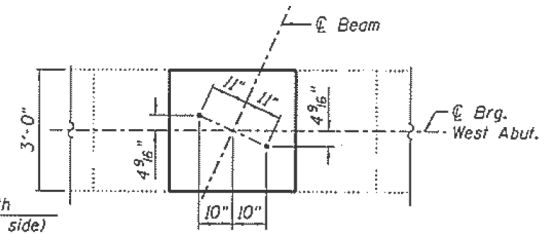
* Cost of field drilling included with Elastomeric Bearing Assembly Type I.



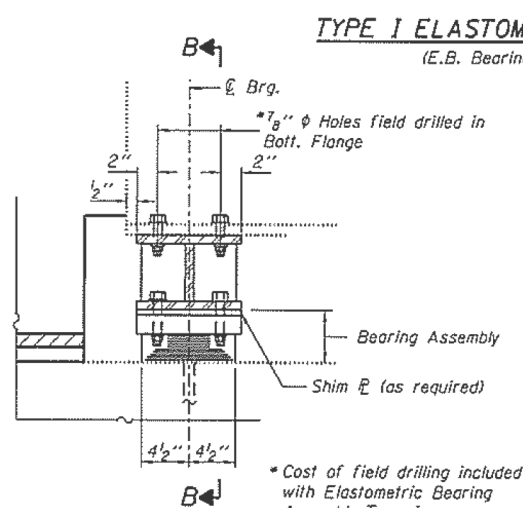
SECTION A-A

1" phi x 12" Anchor bolts (F1554 Grade 36) with 2 1/4" x 2 1/4" x 5/16" P washer under nut

BEARING ANCHOR BOLT LAYOUT (E.B. Bearings)

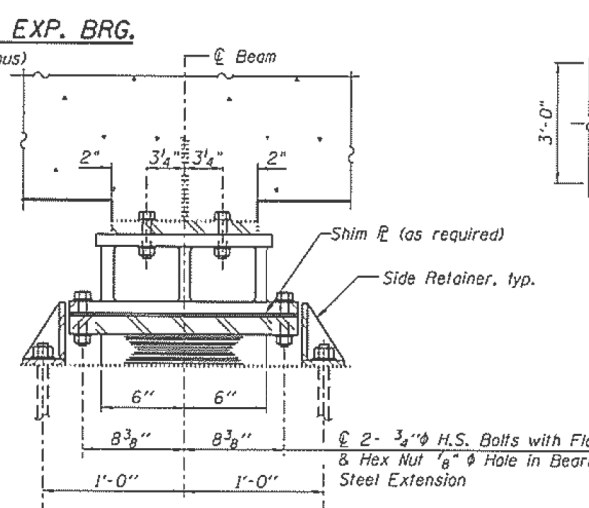


PLAN



ELEVATION AT WEST ABUTMENT

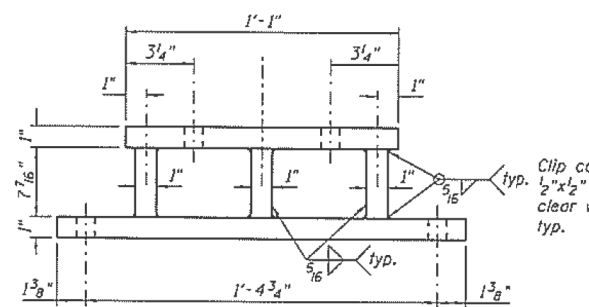
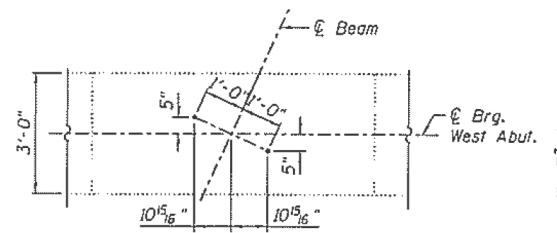
* Cost of field drilling included with Elastomeric Bearing Assembly Type I.



SECTION B-B

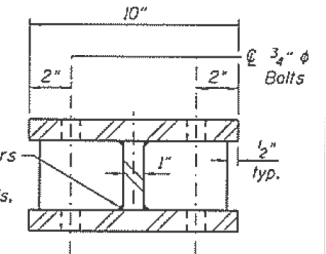
1" phi x 12" Anchor bolts (F1554 Grade C) with 2 1/4" x 2 1/4" x 5/16" P washer under nut

BEARING ANCHOR BOLT LAYOUT (W.B. Bearings)

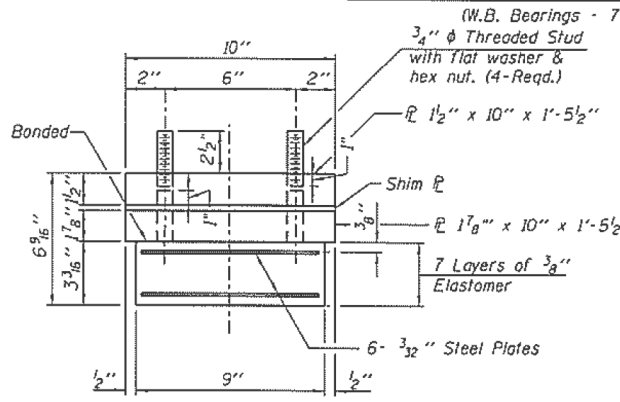


ELEVATION

STEEL EXTENSIONS (7 Thus) Weight included with Structural Steel

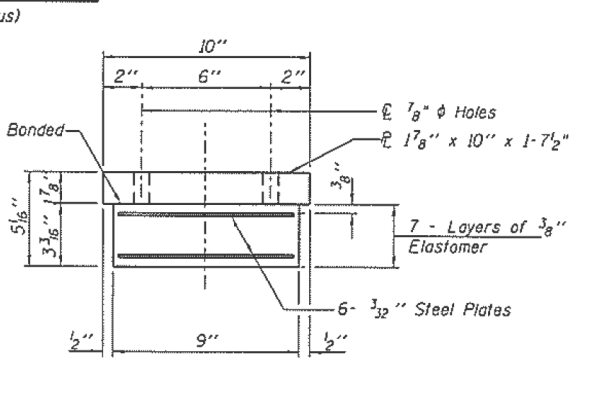


SECTION C-C



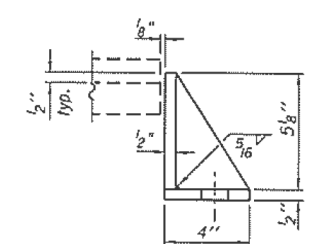
BEARING ASSEMBLY (E.B. Bearings)

Note: Shim plates shall not be placed under Bearing Assembly.



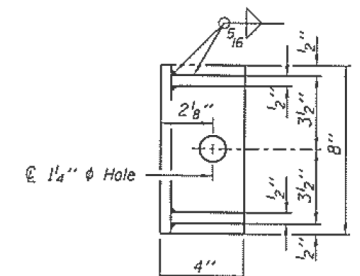
BEARING ASSEMBLY (W.B. Bearings)

Note: Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



Notes:
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
 Two 1/2 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
 Prior to ordering any material the Contractor shall verify in the field all bearing height and shim thickness dimensions.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	14
Anchor Bolts, 1"	Each	28
Furnishing and Erecting Structural Steel	Pound	1,180



USER NAME = rdanley	DESIGNED - BWS	REVISIONS -
PLOT SCALE = 0.166667 / in.	CHECKED - MHT	REVISIONS -
PLOT DATE = 6/14/2012	DRAWN - RD	REVISIONS -
	CHECKED - MHT	REVISIONS -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT BEARING DETAILS
 SN 018-0047 (W.B.) & 018-0048 (E.B.)

SHEET NO. 5-20 OF S-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE PAINTING 2018-3	CUMBERLAND	147	78

CONTRACT NO. 74466

MODEL: Default
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USER NAME = stefenmk	DESIGNED -	REVISIONS -
PLOT SCALE = 100.0000 / in.	DRAWN -	REVISIONS -
PLOT DATE = 9/1/2017	CHECKED -	REVISIONS -
	DATE -	REVISIONS -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING PLAN SHEETS
 SN 018-0047 & 0048

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE PAINTING 2018-3	CUMBERLAND	7	7

CONTRACT NO. 74818

ILLINOIS FED. AID PROJECT