

097

04-26-2019 LETTING ITEM 097

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	119, 117) BP	SCOTT	12	1
* FAP 562, FAS 743		ILLINOIS	CONTRACT NO. 72K78	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

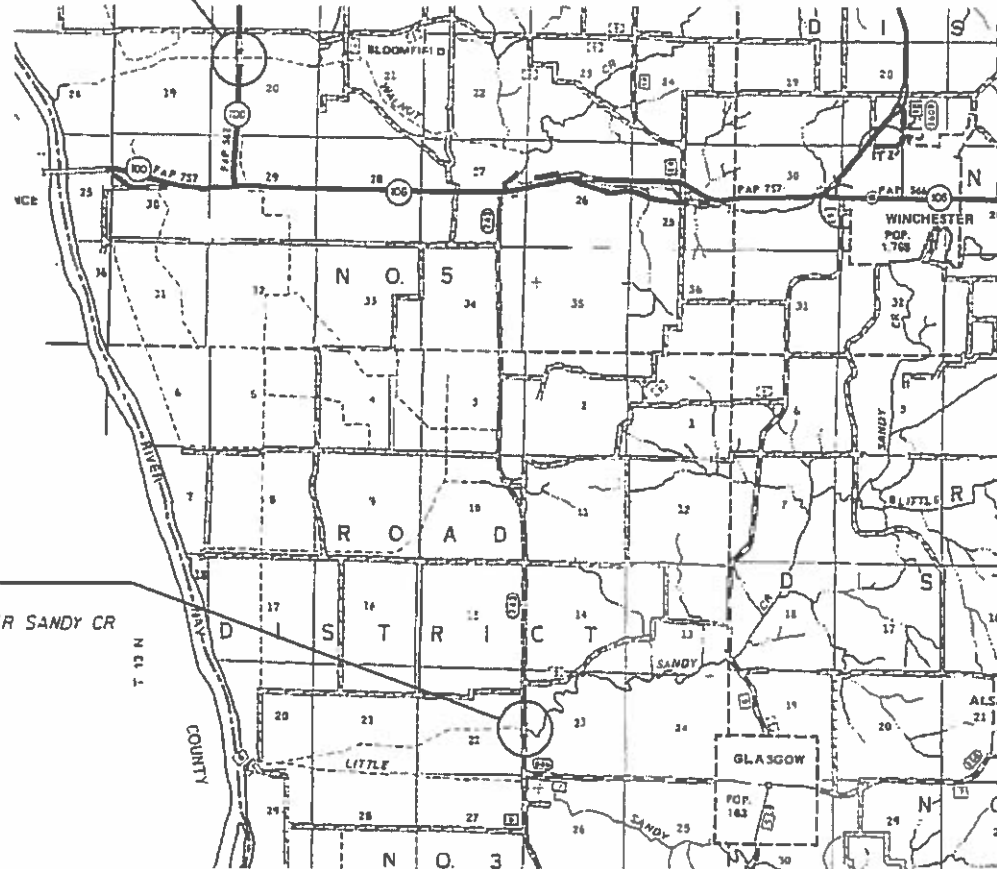
# PROPOSED BRIDGE PAINTING

FAS 743, FAP 562 (HILLVIEW RD, IL 100)  
SECTION (19, 117) BP  
PROJECT STP-41TS(116)  
BRIDGE PAINTING  
SCOTT COUNTY

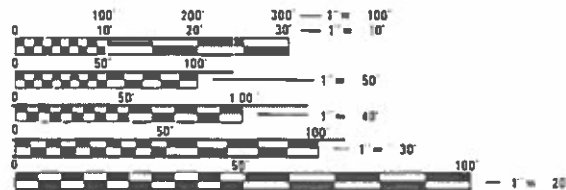
C-96-112-18



LOCATION #2  
SN 086-0039  
IL 100 OVER WALNUT CR  
1.5 MI N IL 106



LOCATION #1  
SN 056-0016  
HILLVIEW RD OVER SANDY CR  
5.0 MI S IL 106



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

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY (217) 785-9290

GROSS LENGTH = x.xx FT. = x.xxx MILE  
NET LENGTH = x.xx FT. = x.xxx MILE

CONTRACT NO. 72K78

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED: 30 October 2018  
[Signature] REGIONAL ENGINEER

March 22, 2019  
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2019  
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES
- 3 SUMMARY OF QUANTITIES
- 4-12 EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)

HIGHWAY STANDARDS

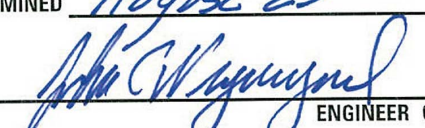
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- 001006
- 701001-02
- 701006-05
- 701201-05
- 701901-08

GENERAL NOTES:


1. WORK SHALL CONSIST OF BLASTING AND PAINTING STRUCTURAL STEEL AT LOCATIONS DESCRIBED IN THE SPECIAL PROVISIONS. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL AREAS TO BE PAINTED SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING PER SSPC SP 10. ALL EXISTING STEEL CLEANED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COATS SHALL BE AS DESCRIBED IN THE SPECIAL PROVISIONS.
2. THE USE OF AIR MONITORS WILL NOT BE REQUIRED.
3. THE SSPC-OP-1 AND SSPC-OP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED.
4. CARE SHALL BE TAKEN NOT TO DAMAGE RUBBER BEARING OR JOINT COMPONENTS DURING BLASTING AND CLEANING OPERATIONS. ANY DAMAGE TO THESE COMPONENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. RUBBER COMPONENTS SHALL NOT BE PAINTED.
5. UPON COMPLETION OF PAINTING OPERATIONS, THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM PIER OR ABUTMENT CAPS UPON WHICH PAINTING OPERATIONS TOOK PLACE. FINAL CLEANUP SHALL BE CONSIDERED INCIDENTAL TO THE PAINT PAY ITEM FOR THE RESPECTIVE LOCATION. THE ENGINEER SHALL HAVE THE RIGHT TO WITHHOLD PAYMENT UNTIL SATISFACTORY CLEANUP IS ACHIEVED.
6. NOTE THAT END DIAPHRAGMS AT SN 086-0016 ARE ENCASED IN CONCRETE AND NEED NOT BE PAINTED.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT 6**

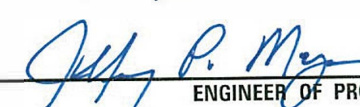
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EXAMINED August 23<sup>rd</sup> 20 18  
  
 ENGINEER OF OPERATIONS

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EXAMINED August 28<sup>th</sup> 20 18  
  
 ENGINEER OF PROJECT IMPLEMENTATION

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EXAMINED September 17 20 18  
  
 ENGINEER OF PROGRAM DEVELOPMENT

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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 743	19 BR	SCOTT	36	11

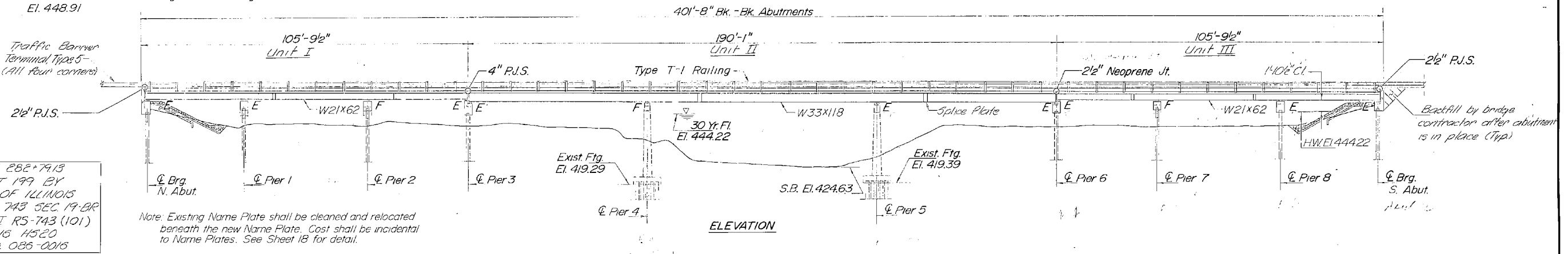
\* - BHF - 743 ( )

Sheet 1 of 24 Sheets

Existing Structure: Nine Span Reinforced Concrete Deck on wide flange deck beams, supported by six bent piers and two solid concrete piers. Open concrete abutments and concrete wingwalls. Bk-Bk Abutments 40'-8" Lengths: Spans 1 8.9 ± 31'-9" Spans 2 8.8 ± 40'-0", Spans 3 8.7 ± 32'-4 1/2", Spans 4 8.6 ± 58'-0 1/2", Span 5 ± 74'-0". Clear Deck Width ± 24'-0", 0° skew. Existing Structure No. 086-0016 Existing Structure to be used for Staging of Traffic during reconstruction.

Benchmark: U.S.G.S. tablet set in N.W. Wingwall of Existing Structure. El. 448.91

Traffic Barrier Terminal Type 5 (All four corners)



STA 282+74.3  
REBUILT 199 BY  
STATE OF ILLINOIS  
FAS RTE 743 SEC. 19 BR  
FA PROJ RS-743 (101)  
LOADING HS20  
STR. NO. 086-0016

Note: Existing Name Plate shall be cleaned and relocated beneath the new Name Plate. Cost shall be incidental to Name Plates. See Sheet 18 for detail.

NAME PLATE (5th 2113)

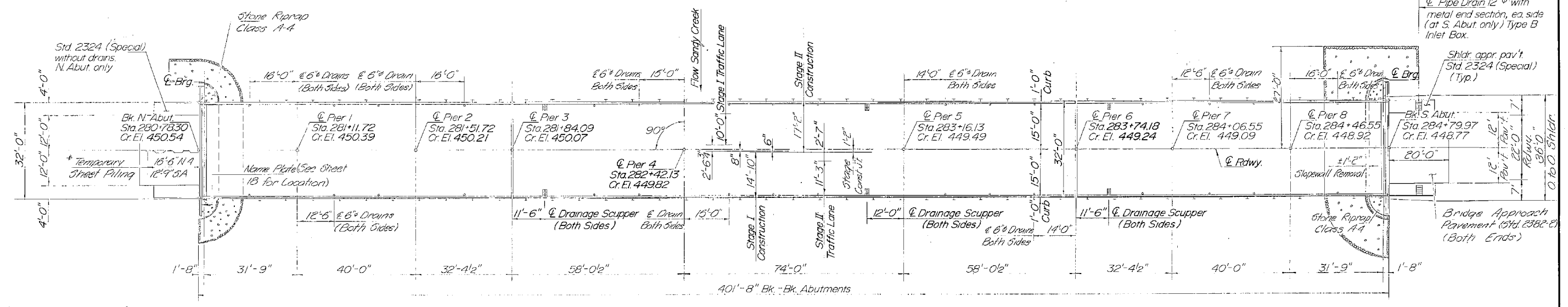
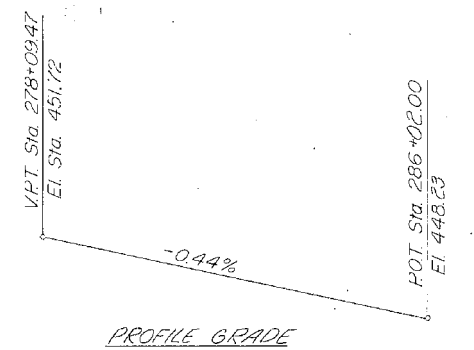
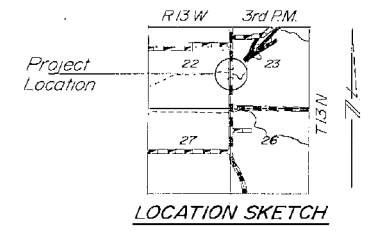
WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	12906	3043	3043	444.22	0.54	0.54	444.76	444.76
Base	100	16827	3667	3667	445.86	0.59	0.59	446.45	446.45
Overtopping	200	18800	3798	3798	446.43	0.61	0.61	447.24	447.24
Max. Calc.	500								

DESIGN STRESSES  
f'c = 3500 p.s.i.  
fy = 60000 p.s.i. (Reinf.)  
Fy = 50,000 p.s.i. (AASHTO M-223, Grade 50)

DESIGN SPECIFICATIONS  
1989 A.A.S.H.T.O. Specifications & 1990 Interim Specifications.  
Seismic Retrofitting Guidelines for Highway Bridges

LOADING HS 20-44  
No Allowance for Future Wearing Surface



\* North Abutment - Top El. 450.6  
Tip El. 430.0  
Est. Quant. - 340 Sq. Ft.  
South Abutment - Top El. - 448.8  
Tip El. - 430.0  
Est. Quant. - 240 Sq. Ft.  
See General Notes on Sheet No. 3 of 74



APPROVED FOR STRUCTURAL ADEQUACY ONLY  
Allen Henderson, (A-15-9)  
Licensed Structural Engineer

Note: 6" Deck Drains shall be placed at 15'-0" centers and shall be placed at a minimum of 10'-0" from the face of all substructure units. Drainage Scuppers shall replace 6" Deck Drains as noted on the Plan view. Temporary Sheet Piling required behind each abutment for Stage Construction.

GENERAL PLAN & ELEVATION  
F.A.S. ROUTE 743  
SECTION 19 BR  
SCOTT COUNTY  
S.N. 086-0016

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USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/26/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 086-0016  
(FOR INFORMATION ONLY)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(19, 117) BP	SCOTT	12	4
* FAP 562, FAS 743		CONTRACT NO. 72K78		
ILLINOIS / FED. AID PROJECT				

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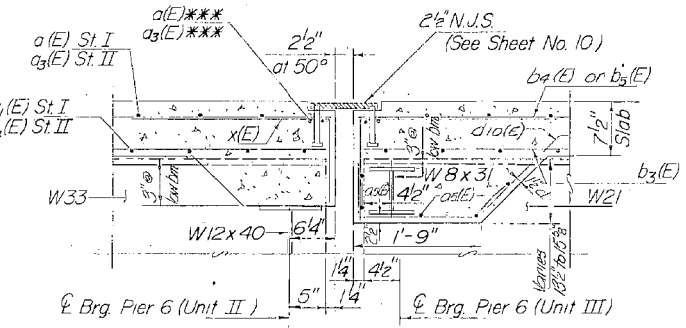
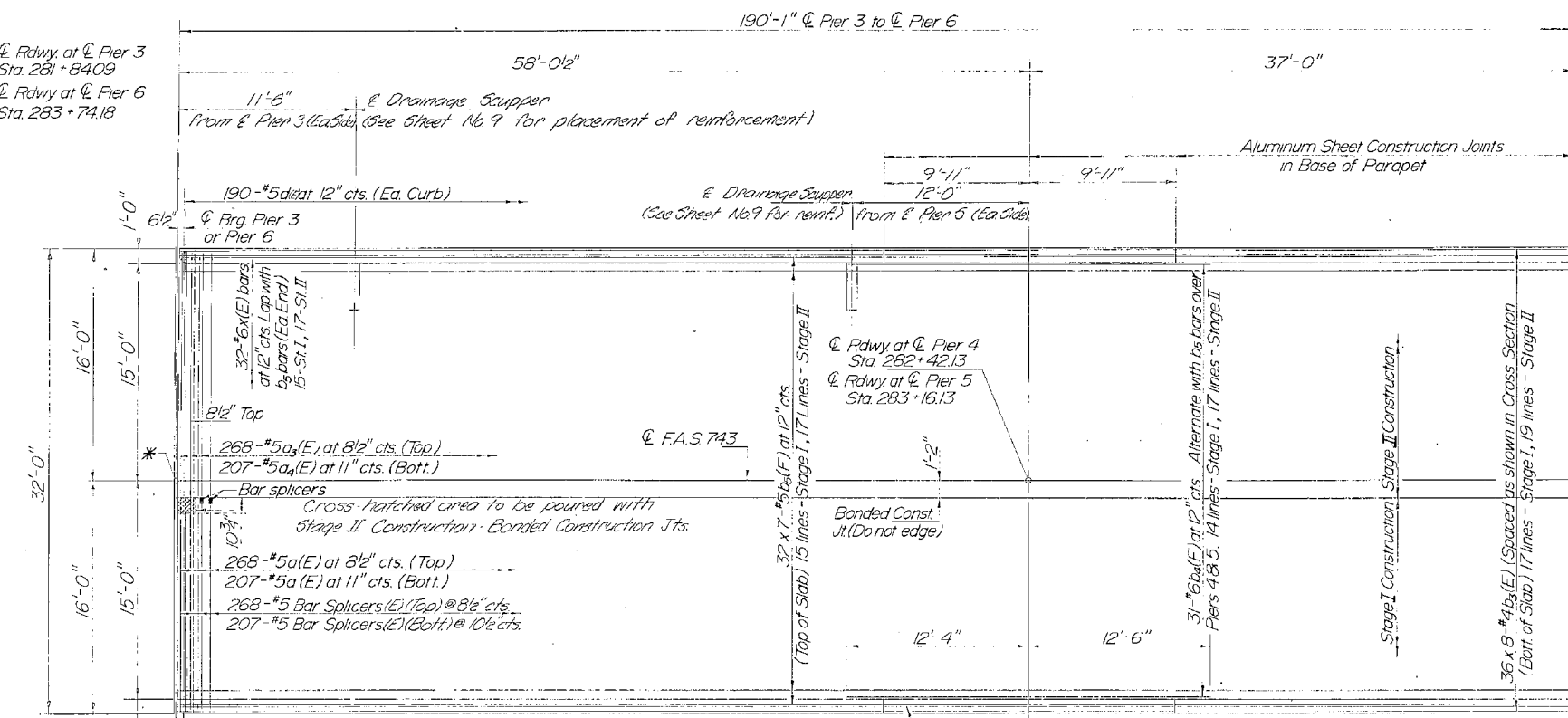


RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 743	19 BR	SCOTT	36	18
PROJECT #			* - BHF - 743 ( )	

Sheet 8 of 24 Sheets

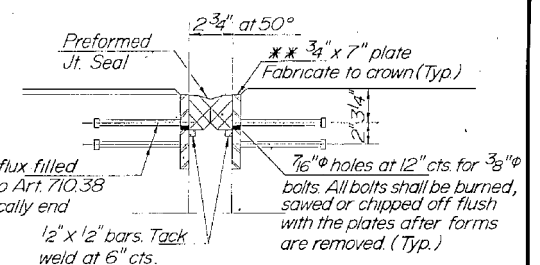
Notes: See Sheet No. 9 of 24 for Superstructure Details and Bill of Material.  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Bars indicated thus 32 x 4-#5 etc. indicates 32 lines of bars with 4 lengths per line.  
 Bar splicers shall be tied to lapped rebars with double the number of ties normally used.  
 Minimum bar lap - #5 bar = 1'-9", #4 bar = 1'-4", #6 bar = 2'-10".  
 See Sheet No. 22 of 24 for Bar Splicer Details.

\*\*\* Place a(E) and a3(E) bars in back of anchor bolt as shown if required to maintain 1" cl. (-0-18'). Anchor bolts should be tied to a(E) and a3(E) bars.

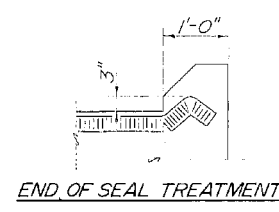
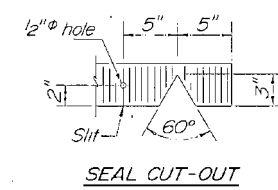
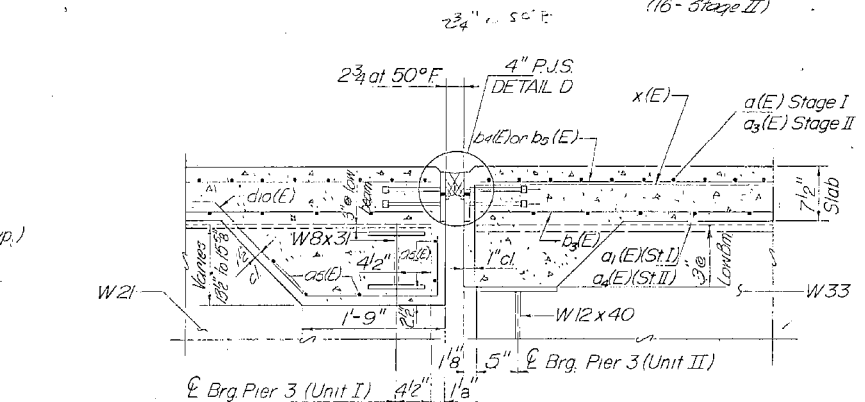
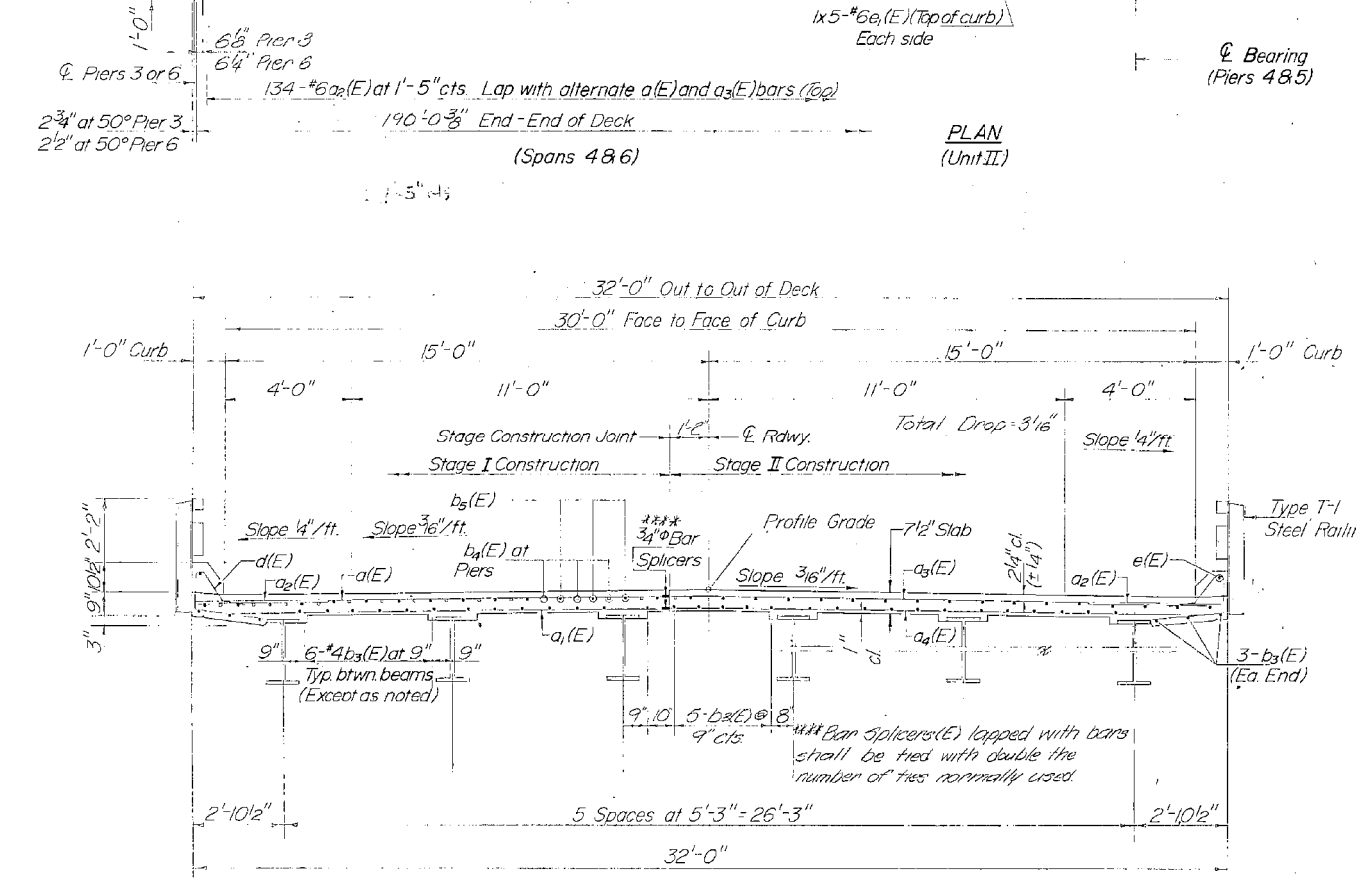


\*\* Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel. (13'-9 3/8" Stage I) (16'-1 3/4" Stage II)

3/4" x 8" Granular or solid flux filled headed studs conforming to Art. 710.38 of the Std. Specs. automatically end welded at 12" alt. cts. (14- Stage I) (16- Stage II)



Note: After fabrication all surfaces of the steel plates shall be given a shop coat of paint specified for structural steel.



PREFORMED JOINT SEAL 4"

SUPERSTRUCTURE (SPANS 4 THRU 6) F.A.S. ROUTE 743 SECTION 19 BR SCOTT COUNTY S.N. 086-0016

ALLEN BENDERBOM & ASSOCIATES

CONSULTING CIVIL AND STRUCTURAL ENGINEERS

ORDINARY D. III. PHONE (617) 544-0000

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/26/2018	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 086-0016 (FOR INFORMATION ONLY)

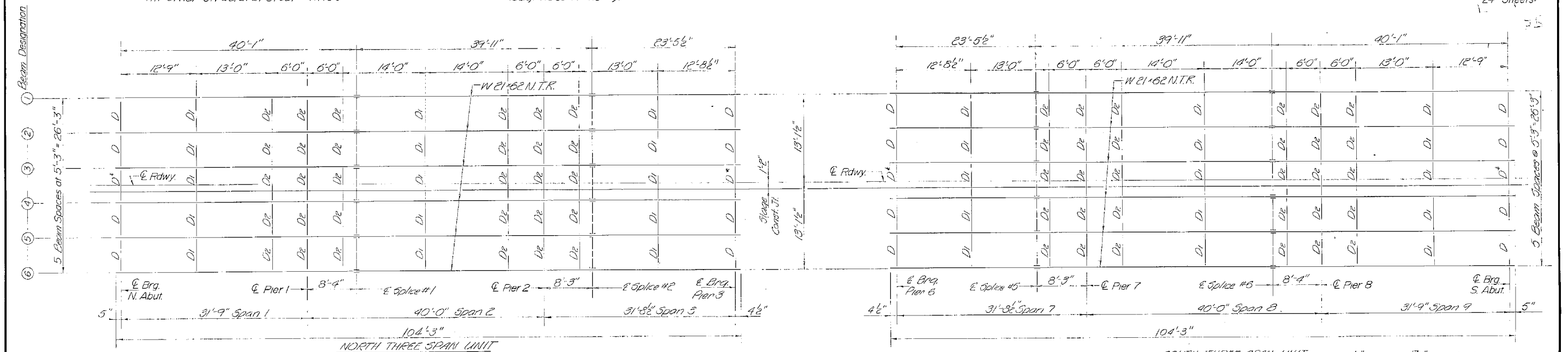
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(19, 117) BP	SCOTT	12	6
* FAP 562, FAS 743			CONTRACT NO. 72K78	
		ILLINOIS	FED. AID PROJECT	

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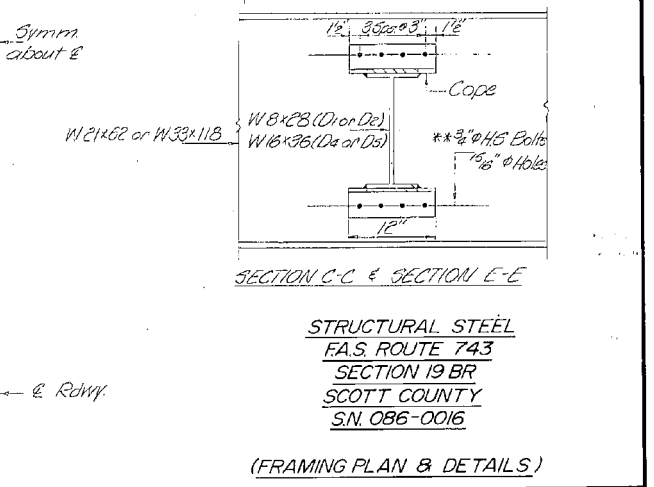
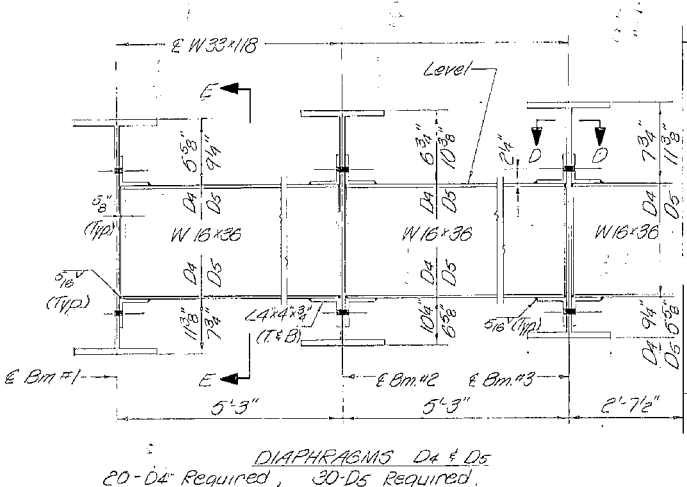
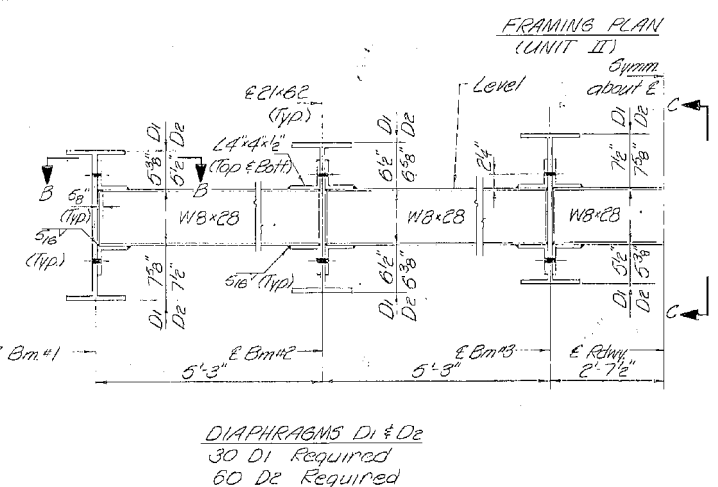
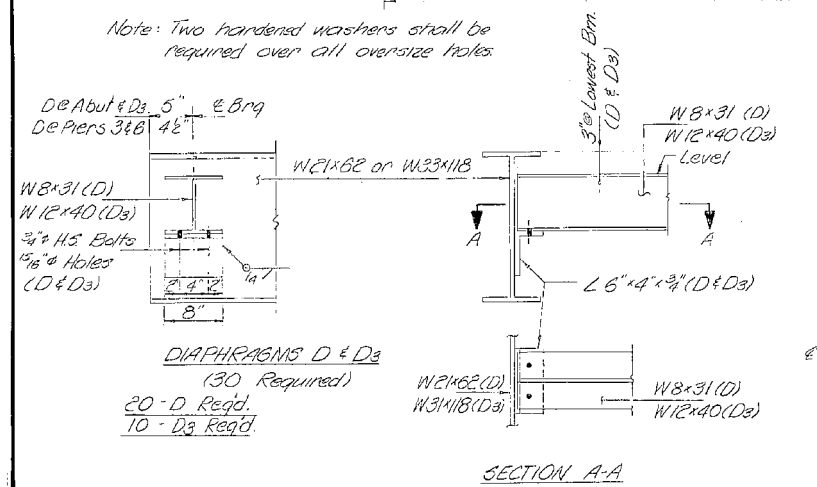
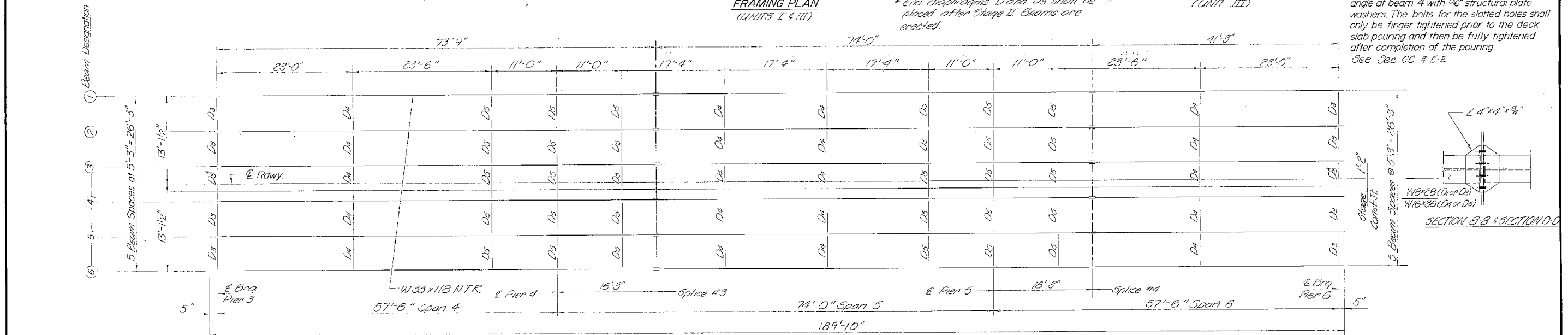
Note: All stringers, Flange splice plates, web splice plates - M 223 Grade 50  
All other Structural Steel - M 183

N.T.R. - Indicates members which shall conform to the Supplemental Requirements for Notch Toughness (Zone 2).



\* End diaphragms D and D<sub>a</sub> shall be placed after Stage II Beams are erected.

\*\* 1/2" vertical x 1 3/8" slotted holes in connection angle at beam 4 with 3/8" structural plate washers. The bolts for the slotted holes shall only be finger tightened prior to the deck slab pouring and then be fully tightened after completion of the pouring. See Sec. CC & E-E



STRUCTURAL STEEL  
FAS. ROUTE 743  
SECTION 19 BR  
SCOTT COUNTY  
SN. 086-0016  
(FRAMING PLAN & DETAILS)

ALLEN WEMMERSON & ASSOCIATES CONSULTING CIVIL AND STRUCTURAL ENGINEERS SPRINGFIELD, ILL. PHONE: (217) 544-8033

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 086-0016  
(FOR INFORMATION ONLY)

USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/26/2018	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* FAP 562, FAS 743	(19, 117) BP	SCOTT	12	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K78	

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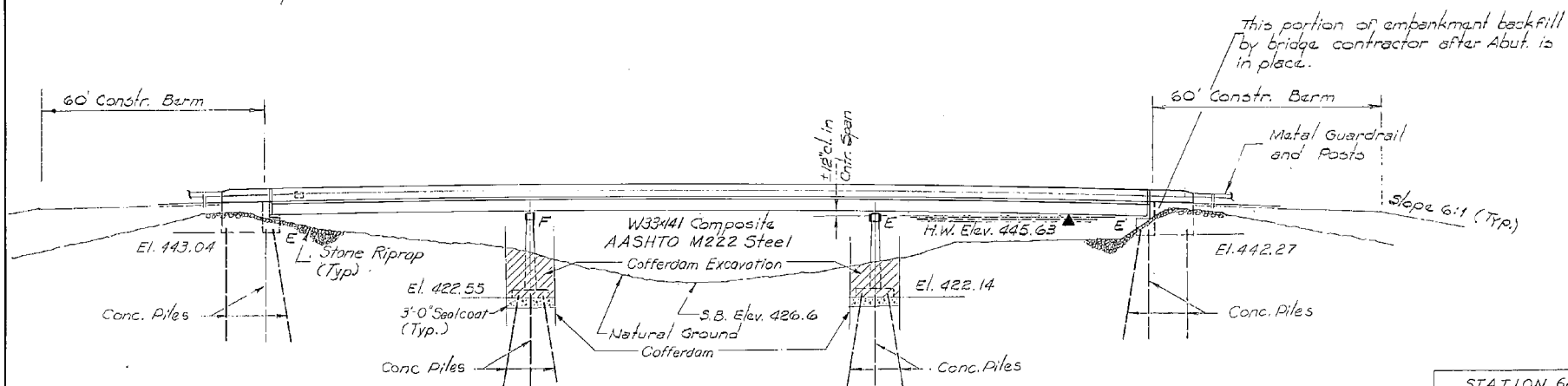
Bench Mark: USGS J245 Standard Bronze Disk in N.E. wingwall of walnut creek bridge, approx. 1.5 mi. north of intersection of U.S. Rte. 36 & S.B.1. Rte. 100 N. Elev. 447.29  
 Existing Structure: Single Steel Span thru Truss cnt. to cnt. brgs. 125'-0" on closed abuts and 20.8 ft. face to face curbs. Built as S.B.1. Rte. 100 Section 117-B2 in 1932 @ Sta. 687+94  
 Existing bridge will be used for traffic during the construction of the new bridge.  
 Existing Structure #086-0010, to be removed by bridge contractor after the completion of the new bridge.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / 13 SHEETS
S.B.1.	117B-2	SCOTT	52	14	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

GENERAL NOTES

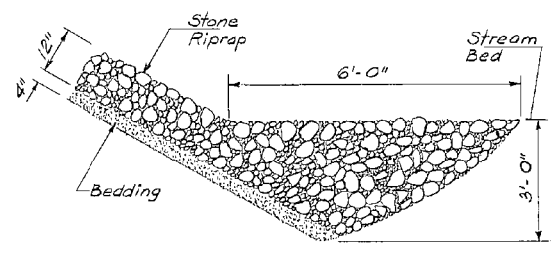
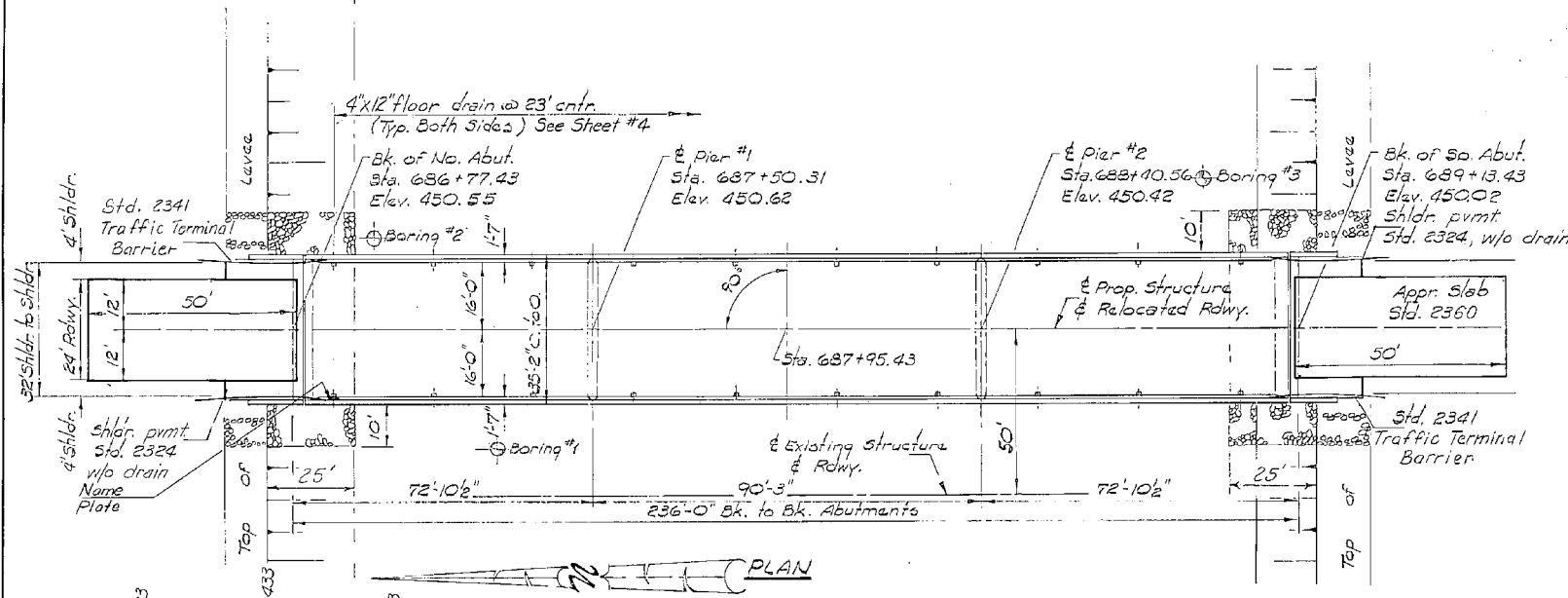
See Proposal for Boring Data.  
 Fasteners shall be high strength bolts (AASHTO M 164, Type 3). Bolts 3/4", open holes 1 1/8", unless otherwise noted.  
 Calculated weight of Structural Steel = 190,140 lbs.  
 The Zinc-Silicate and vinyl paint system shall be used for shop and field painting of Structural Steel except where otherwise noted.  
 All structural steel shall be AASHTO M 222 except expansion joint angles and attached bars which shall be AASHTO M 183.  
 Expansion joint angles and attached bars shall be shop painted with the Zinc-Silicate primer.  
 AASHTO M 222 structural steel shall not be painted except, that for a distance of three times the depth of the beams or girders (but not exceeding 10 feet) each way from deck joints, the AASHTO M 222 structural steel shall be cleaned and given one coat of the zinc-silicate primer and a dark maroon vinyl finish coat. Both coats may be applied in the shop with spot painting only in the field.  
 Field welding of construction accessories will not be permitted to 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.  
 The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 222.  
 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. Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.  
 The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.  
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, shims of the dimensions of top plate shall be provided and placed as detailed.  
 The contractor shall drive one (1) concrete test pile in a permanent location at the North Abut. & Pier #2 as directed by the Engineer before ordering the remainder of piles.



ELEVATION  
 Design high water elevation for seal coat is ± 437.6.

STATION 687+95.43  
 BUILT 198 BY  
 STATE OF ILLINOIS  
 FA RT-562 SEC. 117B-2  
 LOADING HS 20  
 STR. NO. 086-0039

NAME PLATE  
 (See Std. 2113)



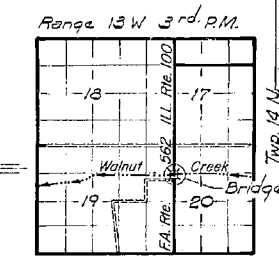
STONE RIPRAP ANCHOR DETAIL

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Protective Coat	Sq. Yd.	1,030		1,030
Removal of Existing Structures, No. 2	Each			1
Class X Concrete	Cu. Yd.	244.8	253.7	498.5
Stud Shear Connectors	Each	681		681
Reinforcement Bars	Pound		23,970	23,970
Reinf. Bars (Epoxy Coated)	Pound	66,060		66,060
Concrete Piles	Lin. Ft.		2,372	2,372
Test Piles (Concrete)	Each		2	2
Name Plates	Each	1		1
Stone Riprap	Tons		212	212
Neoprene Expansion Joint (2 1/2")	Lin. Ft.	33		33
Preformed Joint Seal (2 1/2")	Lin. Ft.	33		33
Seal Coat Concrete	Cu. Yd.		108.4	108.4
Cofferdams	Each		2	2
Floor Drains	Each	20		20
Cofferdam Excavation	Cu. Yd.		300	300
Structural Steel	L. Sum.			1
Structure Excavation	Cu. Yd.		140	140
Elastomeric Bearing Assembly Type I	Each	10		10
Elastomeric Bearing Assembly Type II	Each	5		5

DESIGN STRESSES  
 $f_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (Structural AASHTO M222 Steel)

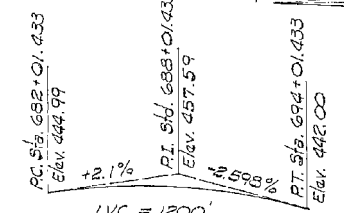
LOADING HS 20-44  
 Design Specifications: 1977 AASHTO and applicable Interims (1978 thru 1982 Interim Specifications) as applicable.  
 Allow 25#/sq.ft. for future wearing surface.



LOCATION SKETCH

GENERAL PLAN  
 FA Rte. 562 Over WALNUT CREEK  
 FA Rte. 562 SECTION 117 B-2  
 SCOTT COUNTY  
 Sta. 687+95.43

PROPOSED PROFILE GRADE



WATERWAY INFORMATION

Drainage Area 56.2 sq. mi. Low grade Elev. 429.0' @ Sta.

Flood	Freq. Yr.	Q C.F.S.	Opening sq. ft.	Not. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.		
	50	7,500	1137	2220	445.63	0.38	0.04	446.01	445.67
Base	100	7670			445.83	0.38	0.04	446.21	445.87
Overtopping	25	7850			445.63	0.38	0.04	446.01	445.67

Leveed Channel - Levees are over topped @ Channel Sta. 5+00 the discharge is 7,500 cfs. The roadway design on the north approach is a 2 yr frequency.

DESIGNED	Bar Line
CHECKED	Patrick M. Petrone
DRAWN	Bar Line
CHECKED	Patrick M. Petrone

JANUARY 27 1981  
 EXAMINED  
 PASSED  
 APPROVED

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 086-0039  
 (FOR INFORMATION ONLY)

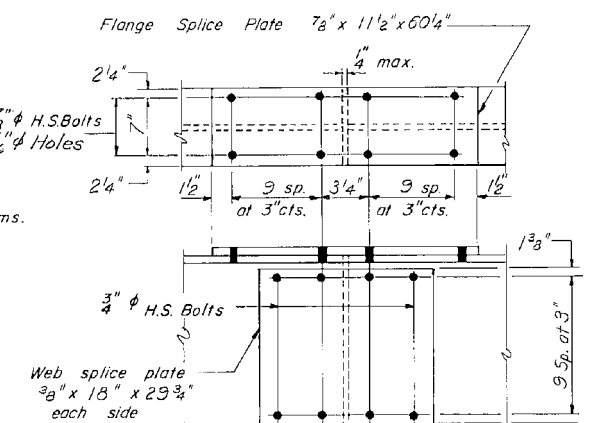
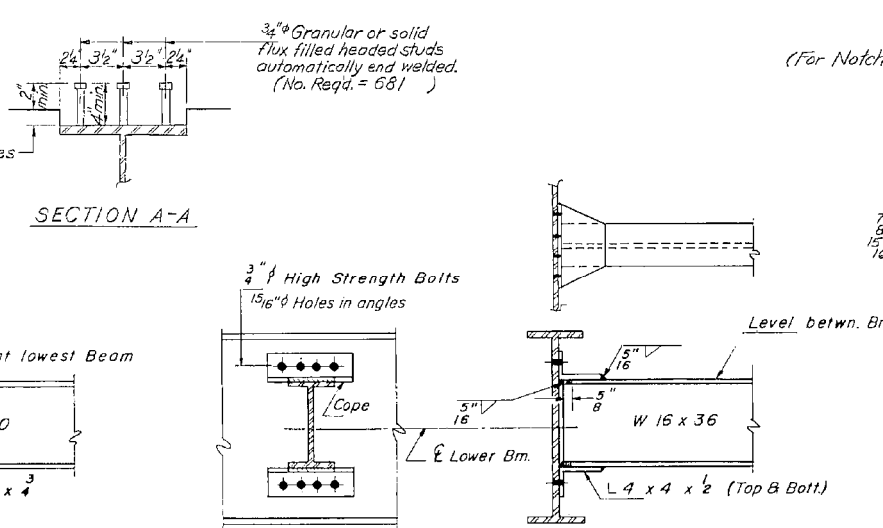
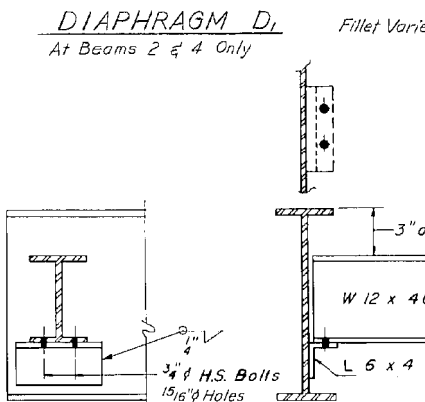
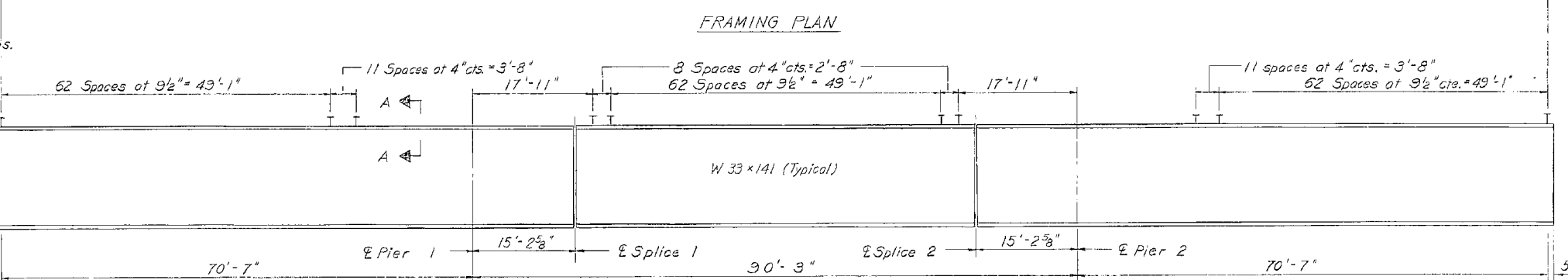
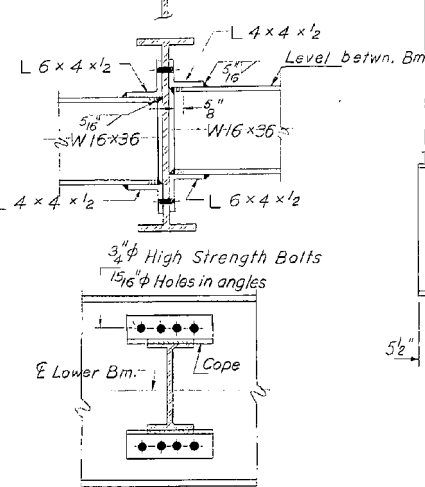
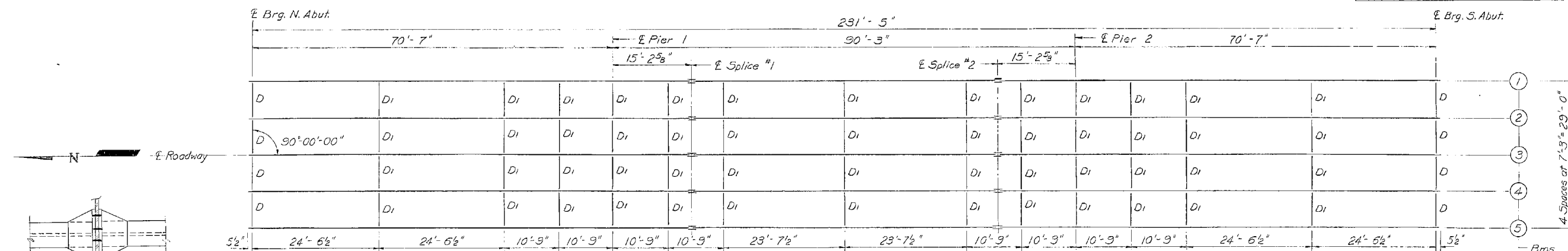
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	(19, 117) BP	SCOTT	12	10
* FAP 562, FAS 743		CONTRACT NO. 72K78		
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
562	117B-2	SCOTT	52	19
FED. ROAD DIST. NO. 3		ILL. ROAD	FED. AID PROJECT	

SHEET NO. 6  
13 SHEETS



3 SPAN CONTINUOUS SYMMETRICAL UNIT  
(COMPOSITE IN POSITIVE MOMENT AREAS ONLY)  
INTERIOR BEAM MOMENT TABLE

	4 Sp. or 6 Sp. 3	PIERS	5 Sp. 2
I <sub>s</sub> (in <sup>4</sup> )	7450	7450	7450
I <sub>c</sub> (in <sup>4</sup> )	18188	—	18188
S <sub>s</sub> (in <sup>3</sup> )	448	448	448
S <sub>c</sub> (in <sup>3</sup> )	624.4	—	624.4
Z <sub>s</sub> (in <sup>2</sup> )	514	514	514
R (k/ft)	.867	.867	.867
S <sub>W</sub> (k/ft)	.345	.345	.345
M <sub>E</sub> (ik)	290	572	311
M <sub>S</sub> E (ik)	134	182	170
M <sub>E</sub> (ik)	564	370	637
M <sub>Imp.</sub> (ik)	144	90	148
M (E+Imp.)	708	460	785
M <sub>max</sub> (ik)	2088	1979	2330
M <sub>u</sub> (ik)	3662	2141	3662
VR (k)	55.4	—	47.1

I<sub>s</sub> and S<sub>s</sub> are the moment of inertia and section modulus of the steel section.  
Z<sub>s</sub> is the plastic section modulus of the steel section. I<sub>c</sub> and S<sub>c</sub> are the moment of inertia and section modulus of the composite section.  
VR is the maximum E+Imp. shear range in span used to determine shear connector spacing. M<sub>max</sub> is the maximum moment indicated by the maximum design load = 1.3 x [M<sub>E</sub> + M<sub>S</sub>E + S<sub>s</sub>(M<sub>E</sub> + I)].  
M<sub>u</sub> is the maximum moment capacity.

INTERIOR BEAM REACTION TABLE

	ABUTS.	PIERS
R <sub>0</sub> (k)	32.1	108.1
R <sub>4</sub> (k)	40.2	55.7
Imp. (k)	10.3	13.6
R Total (k)	82.6	177.4

TOP OF BEAM ELEVATIONS

	Bms #1 & #5	Bms #2 & #4	Bm #3
E Brg. N. Abut.	449.65	449.78	449.89
E Pier #1	449.63	449.76	449.87
E Splice #1	449.63	449.76	449.87
E Splice #2	449.49	449.62	449.73
E Pier #2	449.43	449.56	449.67
E Brg. S. Abut.	449.13	449.26	449.37

Note:  
All contact surfaces of joints for the diaphragms shall be free of paint or lacquer.  
Fasteners shall be high strength bolts AASHTO M 164, Type 3.

DESIGNED: Bao Liu  
CHECKED: Patrick M. Petrone  
DRAWN: Bao Liu  
CHECKED: Patrick M. Petrone

EXAMINED: [Signature] 1981  
PASSED: [Signature]  
APPROVED: [Signature]  
UNDER SECRETARY, CHIEF TRANSPORTATION ENGINEER

STRUCTURAL STEEL  
F.A. RTE. 562 SECTION 117 B-2  
SCOTT COUNTY  
STA. 687+95.43

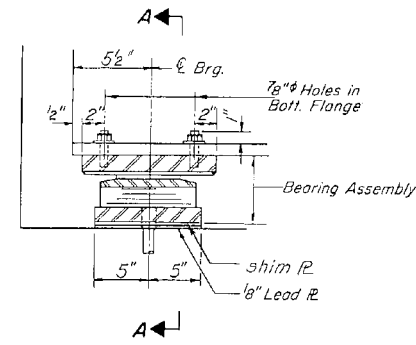
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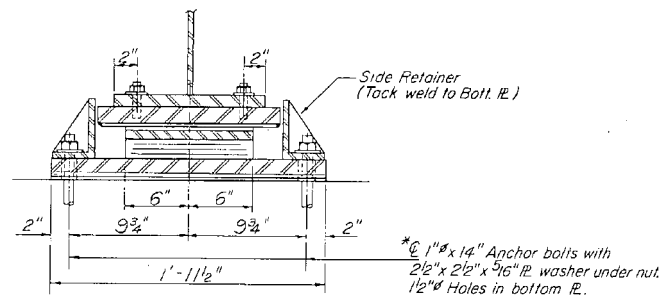
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
562	117B-2	SCOTT	52	20

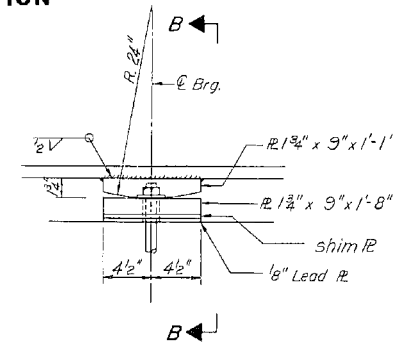
SHEET NO. 7  
13 SHEETS



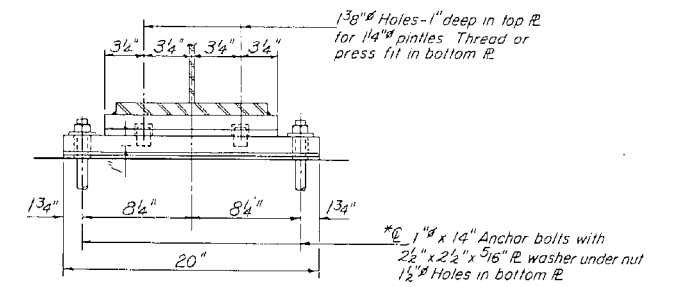
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SECTION A-A

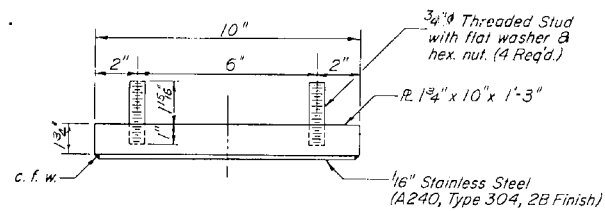


ELEVATION AT PIER 1

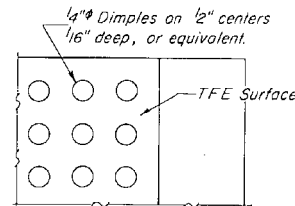


SECTION B-B

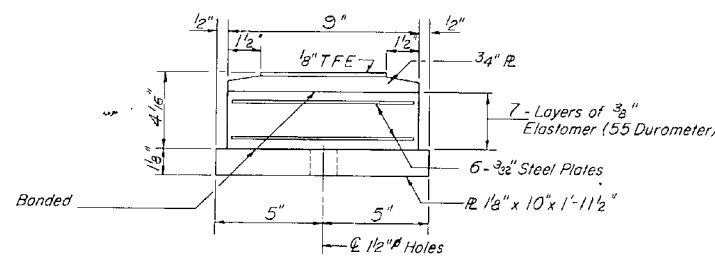
TYPE II TFE ELASTOMERIC EXP BRG.



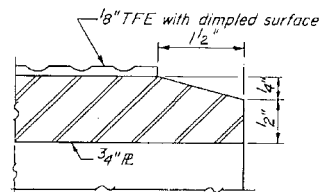
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE

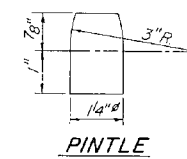


BOTTOM BEARING ASSEMBLY

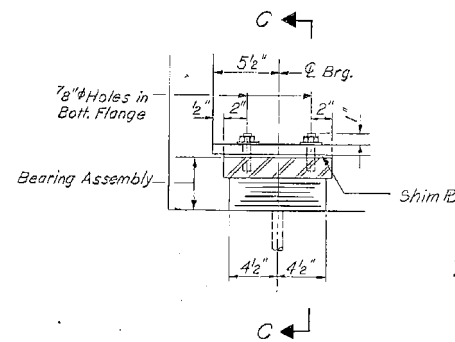


SECTION THRU TFE

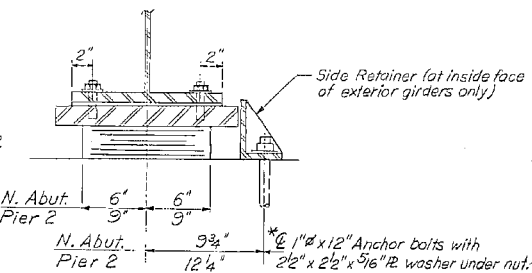
\*Note: After girders have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.  
See Sheet #7A for Anchor Bolt Details.



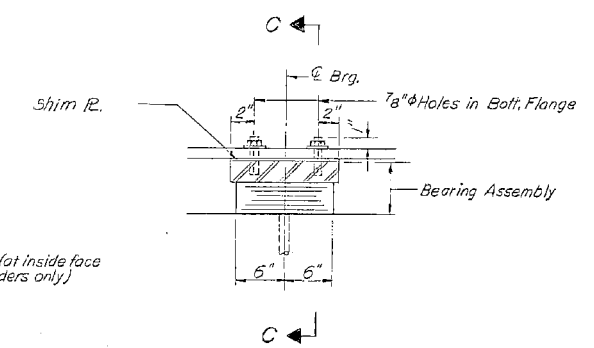
PINTLE



SECTION AT N. ABUT.

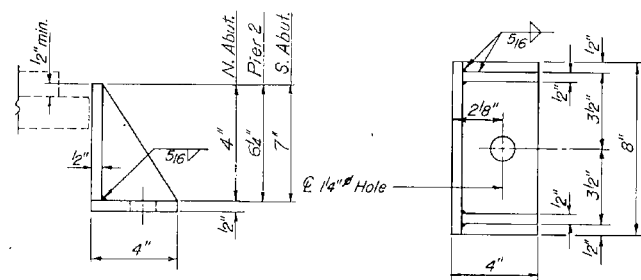


SECTION C-C



SECTION AT PIER 2

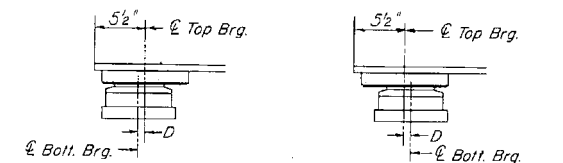
TYPE I ELASTOMERIC EXP BRG.



SIDE RETAINER

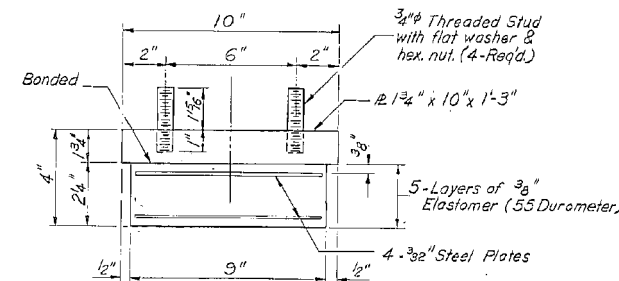
(Retainers built-up from 1/2" Angles are acceptable.)

DESIGNED	Bar Lin	EXAMINED	JAN 22 1981
CHECKED	Patrick M. Petrone	PASSED	
DRAWN	Bar Lin	APPROVED	
CHECKED	Patrick M. Petrone		



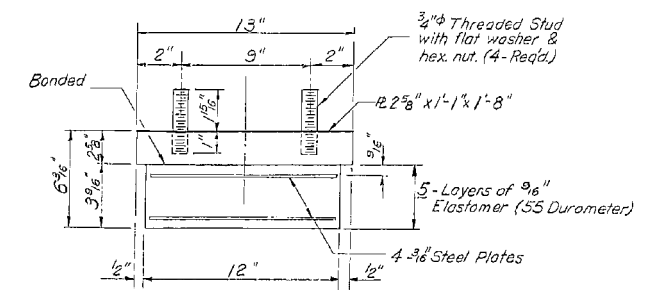
SETTING ANCHOR BOLTS AT S. ABUT.

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



BEARING ASSEMBLY

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



BEARING ASSEMBLY

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

BEARING DETAILS  
F.A. RTE. 562 SECTION 117 B-2  
SCOTT COUNTY  
STA. 687+95.43

I-2-E2 4-1-79  
Rev: RLP 10-12-83

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 086-0039  
(FOR INFORMATION ONLY)

USER NAME	DESIGNED	REVISIONS	SCALE	SHEET	OF SHEETS	STA.	TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
= dudleybm	-	-						562	(19, 117) BP	SCOTT	12	12
								* FAP 562, FAS 743		CONTRACT NO. 72K78		
								ILLINOIS		FED. AID PROJECT		