* 21-1 = 20 TOTAL SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	DZ BDR 2017-1	ROCK ISLAND	21	
	1: - 14475	CONTRACT	NO 6	61 70

DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2 FOR STATE STANDARDS, SEE SHEET NO. 2

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PROPOSED HIGHWAY PLANS

FAI ROUTE 88 (I-88)
SECTION D2 BDR 2017-1
TYPE OF IMPROVEMENT: BRIDGE REPAIRS
ROCK ISLAND COUNTY

C-92-118-16

C-92-118-16

100' 200' 300'— 1"= 100'
10' 20' 30'— 1"= 10'
50' 100' 1"= 50'
50' 100' 1"= 40'
50' 100' - 1"= 30'
50' 100' - 1"= 30'

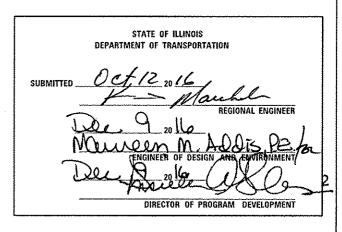
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: DAVID DOSS (815) 284-5416
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64L79





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- COVER SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
- * 3-4 SUMMARY OF QUANTITIES
 - 5 BRIDGE CLOSURE FOR SN 081-0119
 - 6 SHOULDER CLOSURE DETAIL
 - 7 SUBSTRUCTURE REPAIR DETAIL SN 081-0119 NORTH ABUTMENT
 - 8 SUBSTRUCTURE REPAIR DETAIL SN 081-0119 SOUTH ABUTMENT
 - 9 PLAN AND ELEVATION MOLINE ROAD (FAS 1204) OVER FAI 88 SN 081-0119
- 10-11 REPAIR DETAILS SN 081-0119
- 12 STEEL REPAIR DETAILS SN 081-0119
- 13 PREFORMED JOINT STRIP SEAL SN 081-0119
- 14 TRAFFIC CONTROL FOR ROAD CLOSURE (DIST STD 40.1)
- 15-21 EXISTING STRUCTURE PLANS FOR SN 081-0119 (FOR INFORMATION ONLY)
- * SHEET 4 DELETED.

STATE STANDARDS

- 701001 02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5m) AWAY
- 701006 05 OFF-RD OPERATIONS, 2L, 2W, 15'(4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
- 701101 05 OFF ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701400 09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406 || LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701901 06 TRAFFIC CONTROL DEVICES
- 704001 08 TEMPORARY CONCRETE BARRIER
- 720011 01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001 01 TELESCOPING STEEL SIGN SUPPORT
- 729001 01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 701106-02
- 780001 05

GENERAL NOTES

All Borrow-Waste-Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800–892–0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

(Type name & phone number of JULIE companies from attached utility form.)

Electric:

MIDAMERICAN ENERGY ATTN: NATE TEAGER (563) 333-8706 5955 FENNO ROAD BETTENDORF, IA 52722

Gas

MIDAMERICAN ENERGY COMPANY ATTN: MATT KOVACIC (309) 793–3704 2811 5TH AVENUE ROCK ISLAND, IL 61201

Telephone:

FRONTIER LEGACY ATTN: DAVID DAY (815) 772-2078 124 EAST LINCOLNWAY MORRISON, IL 61270

CATV:

MEDIACOM ATTN: DENNIS JARDING (309) 743-4750 3900 26TH AVENUE MOLINE, IL 61265

Water and Sewer:

CITY OF EAST MOLINE ATTN: TIM KAMMLER (309) 752-1595 1200 13TH AVENUE EAST MOLINE, IL 61244

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

Hazards behind Temporary Concrete Barrier Wall

No materials, equipment, vehicles or other hazards shall be within 2'-0" of the temporary concrete
barrier wall, measured from the closest point of the barrier wall perpendicular to the hazard.

Equipment that is actively working with 2'-0" of the barrier wall may be allowed for a short
duration, if approved by the engineer, required for the work activity, and there is not another
method to complete the work. No materials equipment, vehicles or other hazards shall be stored
within 25' of the impact attenuators.

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	PLOT SCALE = 180,8000 1/ In.	CHECKED	REVISEO -
Default	PLOT DATE : Det-12-2816 81:11:36 PM	DATE -	RÉVISEO -

STATE	OF	LLINOIS
DEPARTMENT	OF	TRANSPORTATION

INDEX	OF		-	STANDARDS	&	
		GENI	ERAL NO	TES		
 SHEET _		OF	SHEETS	STA.		STA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	5
88	D2 BDR 2017-1	ROCK ISLAND	21	
 		CONTRACT	NO. 6	4
 	ILLINOIS FED. A	D PROJECT		

SUMMARY OF QUANTITIES 0014 100% State Funds

			State rullus
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	··. · · · · · · · · · · · · · · · · · ·
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	103
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1,296
50102400	CONCRETE REMOVAL	CU YD	19.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	19.2
50300300 50800205	PROTECTIVE COAT REINFORCEMENT BARS, EPOXY COATED	SQ YD POUND	38 · 5 2,470
52000110	PREFORMED JOINT STRIP SEAL	FOOT	136
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	1,312
67100100	MOBILIZATION	L SUM	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	405.44
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,016
X0550300	SLOPE WALL BREAKING	SQ YD	49
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0001905	STRUCTURAL STEEL REPAIR	POUND	850
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	1,600
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	120
Z0073Z00	TEMPORARY SHORING AND CRIBBING	EACH	5
Z0041895	POLYMER CONCRETE	CU FT	3.7

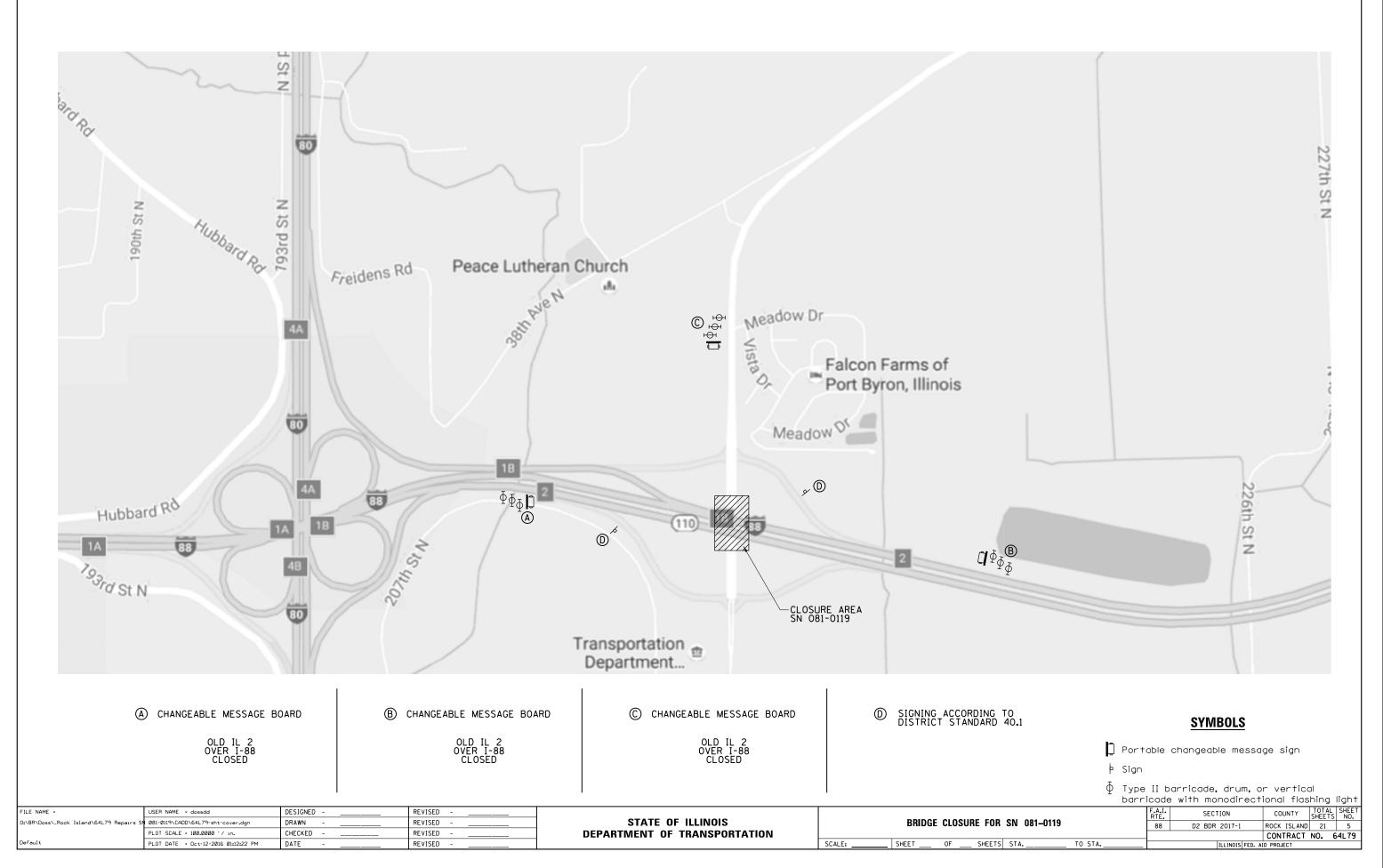
* SPECIALTY ITEM

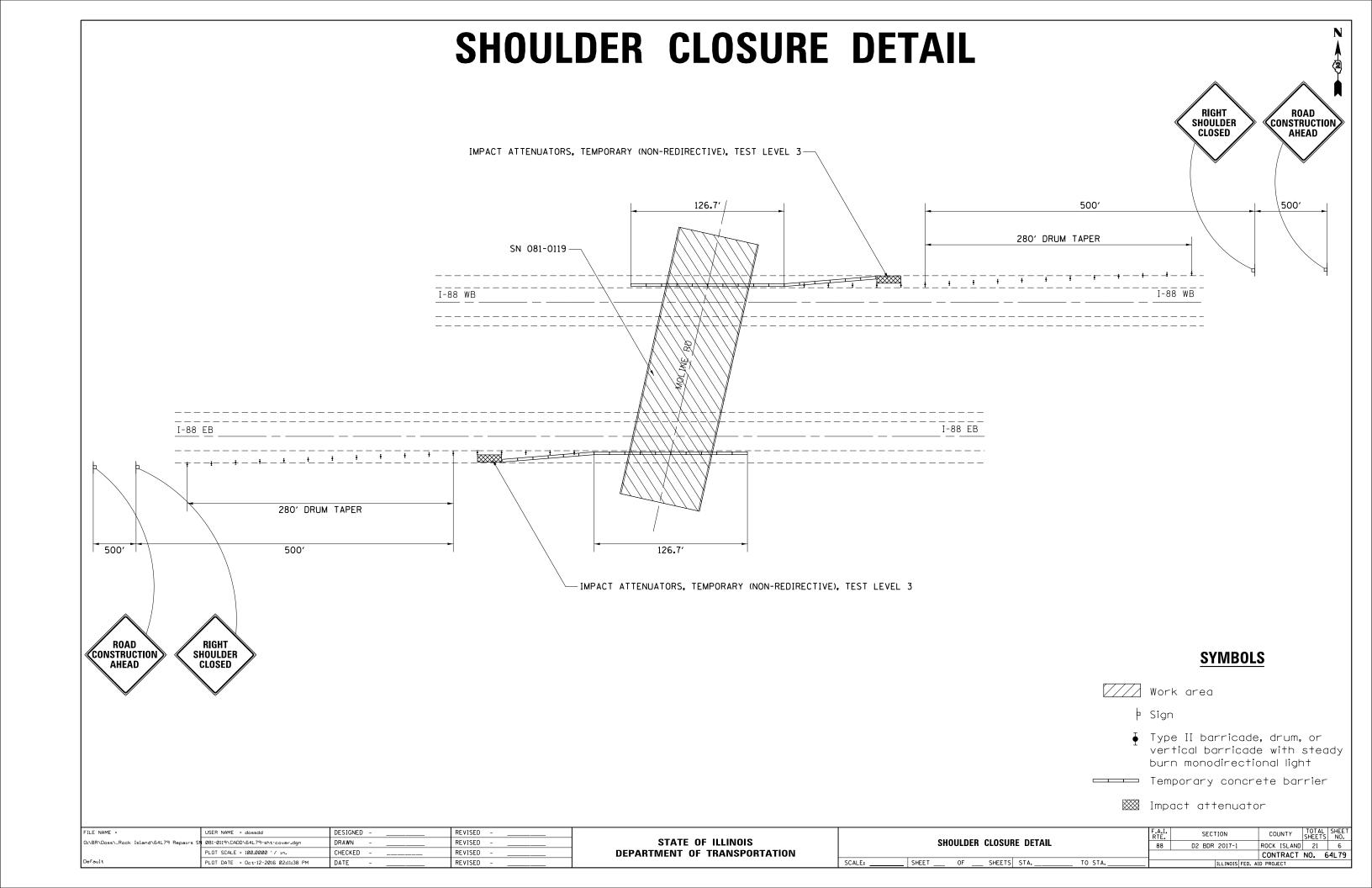
USER NAME = dowards DESIGNED -REVISED -\$81-8119\CADG\64L79-aht-cover,dgn REVISED -DRAWN PLOT SCALE . 100,0000 '/ In. CHECKED -REVISED -PLOT DATE * Dot-12-2016 8141148 PM DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SUMMARY OF QUANTITIES OF ___ SHEETS STA._

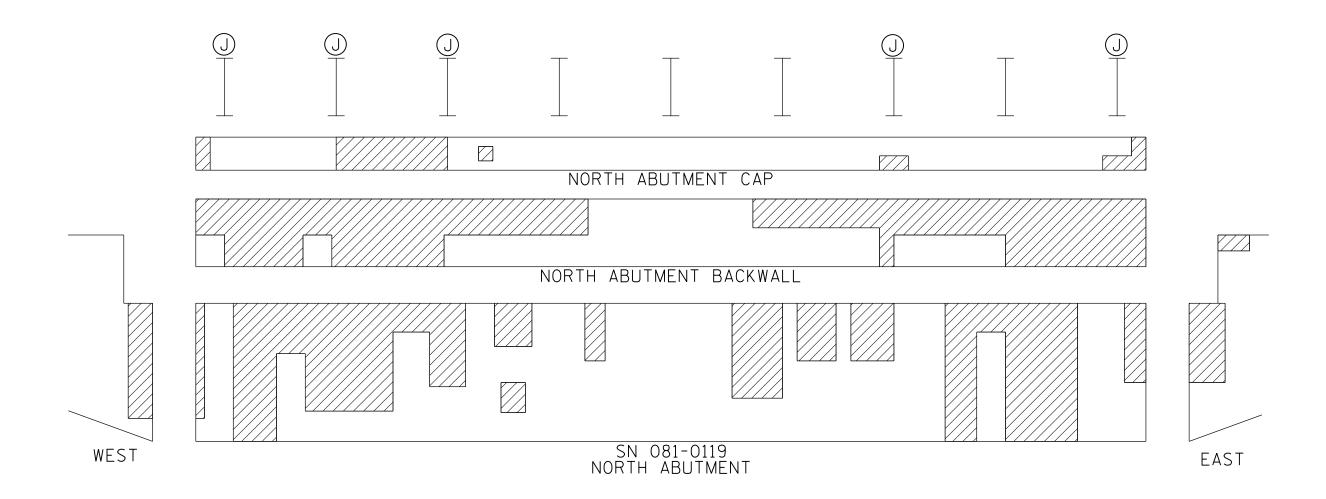
SECTION D2 BDR 2017-1

BRIDGE CLOSURE FOR SN 081-0119





SUBSTRUCTURE REPAIR DETAIL SN 081-0119 NORTH ABUTMENT



 $RQ = 58.8^{k}$ $RL = 45.3^{k}$ $IMP = 9.9^{k}$ $TOTAL = 114.0^{k}$

ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF CONCRETE =< 5"	1,300 (SQ FT)
(*) STRUCTURAL REPAIR OF CONCRETE > 5"	70 (SQ FT)
TEMPORARY SHORING AND CRIBBING	5 (EACH)

\sim	TEMPORARY		AND	CRIBBING	
	DELAMINATE	D AREA			

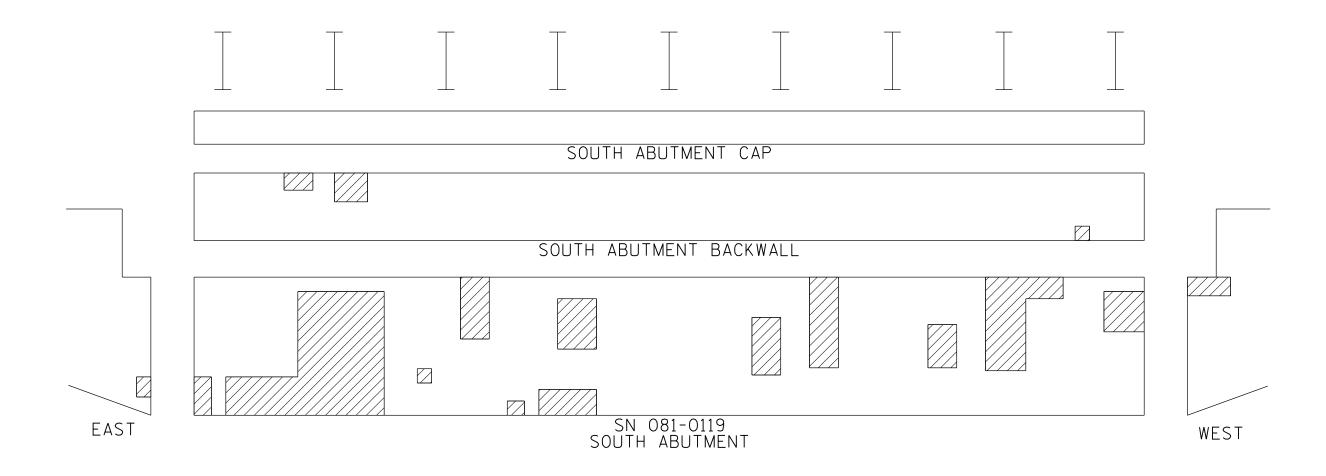
(*)THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

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STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

SU	BSTRUCTU	RE REP	AIR DETAIL		F.A.I. RTE.	SECT	TION	COUNTY	TOTAL SHEET:	SHEET NO.
CM	091_0110	NORTH	ABUTMENT		88	D2 BDR	2017-1	ROCK ISLAN	ID 21	7
JIV	001-0113		ADOTIVILIAT					CONTRAC	Γ NO.	64L79
SHEET	OF	SHEETS	STA.	TO STA.			TI I INDIS EED	ATD PROJECT		

SUBSTRUCTURE REPAIR DETAIL SN 081-0119 SOUTH ABUTMENT



ITEM	QUANTITY
(*) STRUCTURAL REPAIR OF C	ONCRETE =< 5" 300 (SQ FT)
(*) STRUCTURAL REPAIR OF C	ONCRETE > 5" 50 (SQ FT)

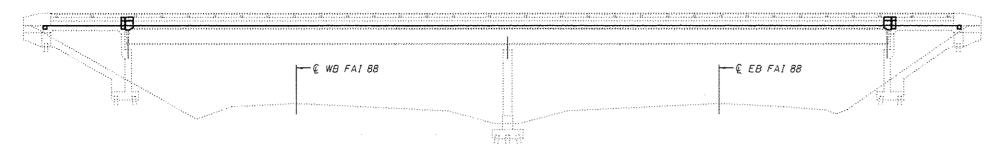
TEMPORARY	SHORING	AND	CRIBBING
DELAMINATE	ED AREA		

(*)THIS IS AN ESTIMATED QUANTITY. THE ACTUAL LOCATION OF DELAMINATED AREAS AND QUANTITIES WILL BE DETERMINED BY THE RESIDENT ENGINEER IN THE FIELD.

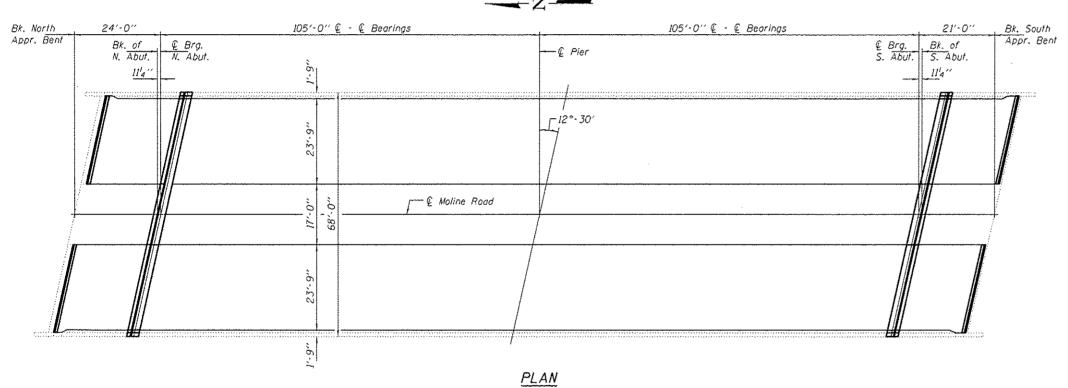
FILE NAME :	USER NAME = dossdd	DESIGNED	REVISED
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STATE	OF ILLINOIS	
DEPARTMENT	OF TRANSPORTATIO	V

SUBSTRUCTURE REPAIR DETAIL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN 081-0119 SOUTH ABUTMENT	88	D2 BDR 2017-1	ROCK ISLAND	21	8
3N 001-0113 300111 ADDIWLNI			CONTRACT	NO. 6	4L79
SHEET OF SHEETS STA TO STA		ILLINOIS FED. A	D PROJECT		



ELEVATION





EXPIRES 11-30-2015

DESIGNED	11horas	351		1
CHECKED	Stepl.	_ In Rym		- F/ /
ORAWN	baliva	U	PASSE	0 Na (
CHECKED	150	SOAR		ACTING EN

DATE NOVEMBER 29, 2016 REVISED REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PLAN AND ELEVATION MOLINE ROAD (FAS 1204) OVER FAI 88 SN 081-0119 SHEET NO. 1 OF 5 SHEETS

New concrete superstructure areas only COUNTY SHEETS NO. ROCK ISLAND 21 9 SECTION D2 BOR 2017-1 CONTRACT NO. 64L79

UNIT QUANTITY

19.2

2470

136

850

1296

103

Cu. Yd. 19.5

Cu. Yd.

Pound

Foot

Cu. Ft.

Pound

Sq. Yd.

Tons

Sq. Yd. Sq. Yd.

TOTAL BILL OF MATERIAL

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. Reinforcement bars designated (É) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale,

and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay Item covering removal of the existing concrete.

Existing reinforcement bars extending into the removal area shall be cleaned. straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The new deck surface area shall have its final finish tined according to Article 420,09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F. Fasteners shall be high strength boits. Bolts 34"\$, open holes 1316"\$,

unless otherwise noted.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type I. Cost included with Structural Steel Repair.

Work to be completed under road closure.

Concrete Removal

Polymer Concrete

Protective Coat

Structural Steel Repair

HMA Surface Removal 1/2

Polymerized Hot-Mix Asphalt

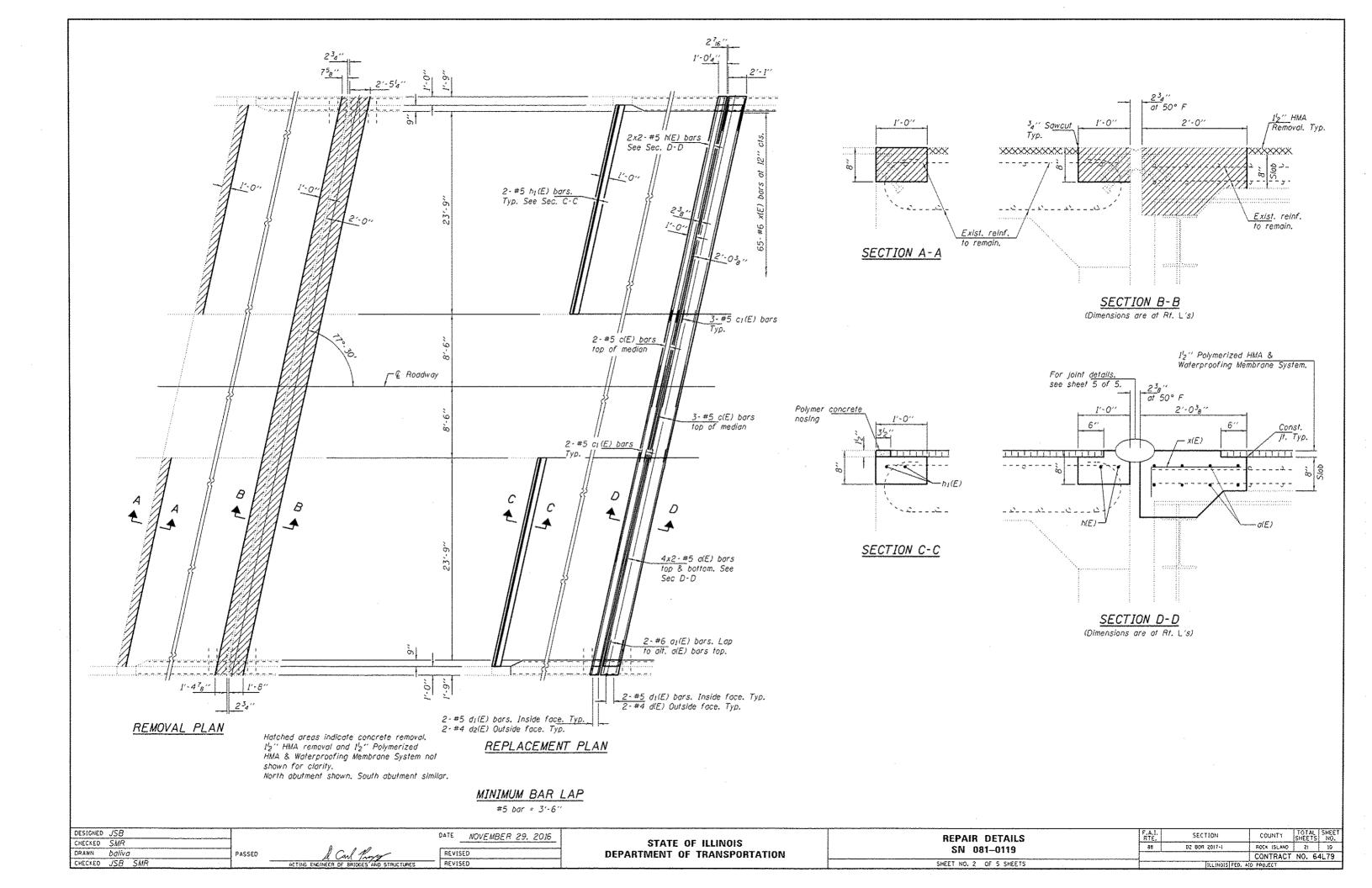
Surface Course, Mix "D", N90

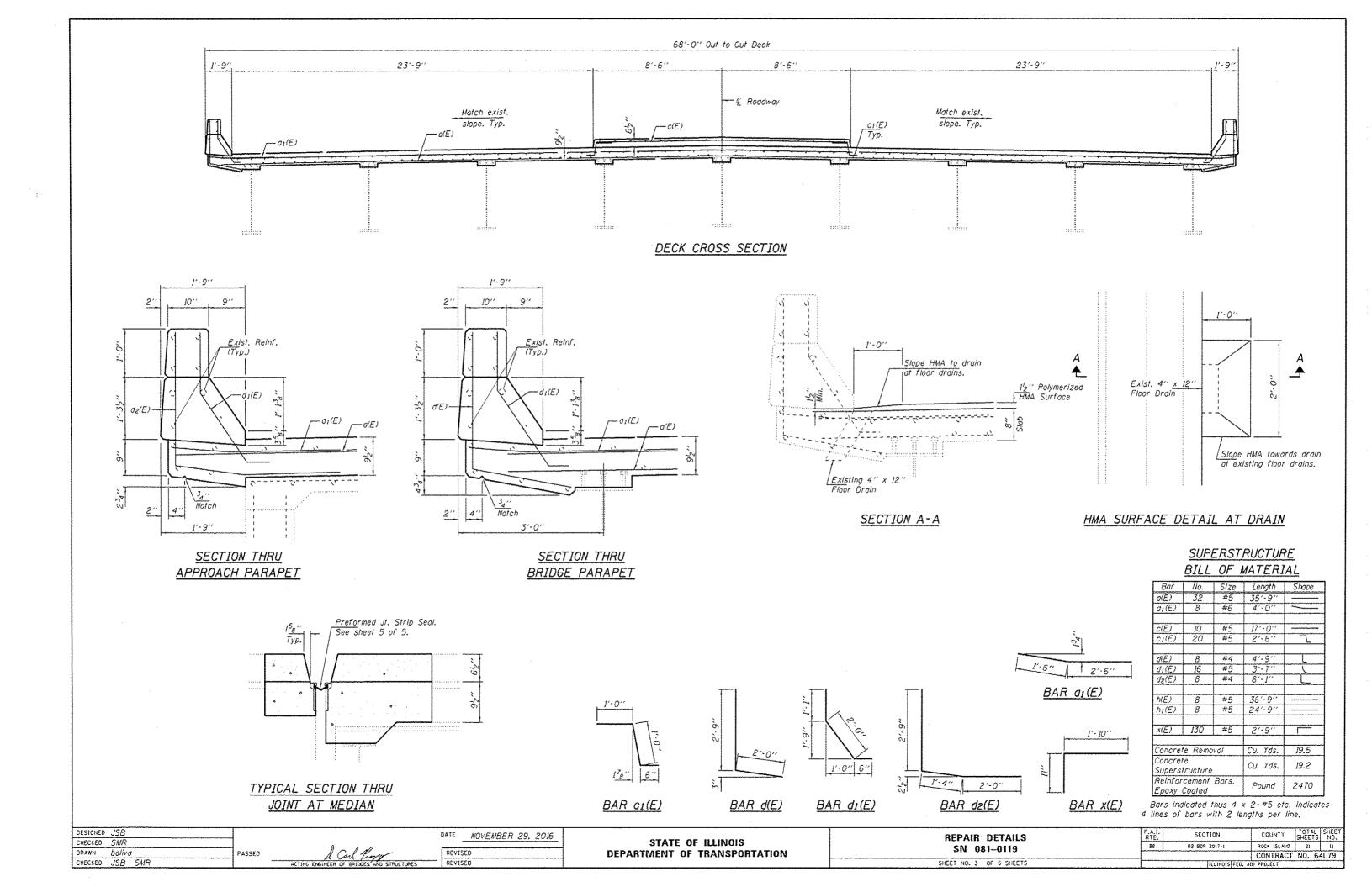
Waterproofing Membrane System

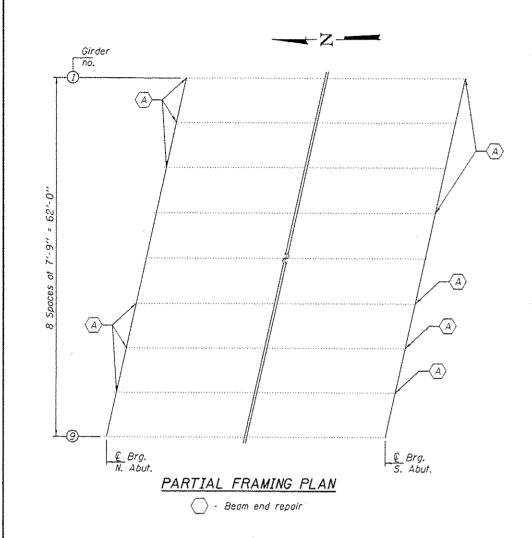
Concrete Superstructure

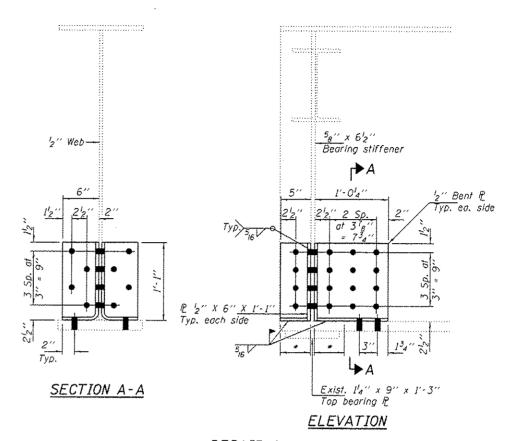
Preformed Joint Strip Seal

Reinforcement Bars, Epoxy Coated









REPAIR A

* 5" Long weld length

DESIGNED JSB

CHECKED SMR

DRAWN baliva

CHECKED JSB SMR

DRAWN baliva

CHECKED JSB SMR

DATE MOVEMBER 29. 2016

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOTAL SHEET'S NO.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOTAL SHEET'S NO.

STATE OF ILLINOIS
SN 081-0119

REVISED

DEPARTMENT OF TRANSPORTATION

SHEET NO. 4 OF 5 SHEETS

THE SECTION COUNTY SHEET'S NO.

SN 081-0119

REVISED

DEPARTMENT OF TRANSPORTATION

SHEET NO. 4 OF 5 SHEETS

THE SECTION COUNTY SHEET'S NO.

SN 081-0119

REVISED

TOTAL SHEET'S NO.

SN 081-0119

SHEET NO. 4 OF 5 SHEETS

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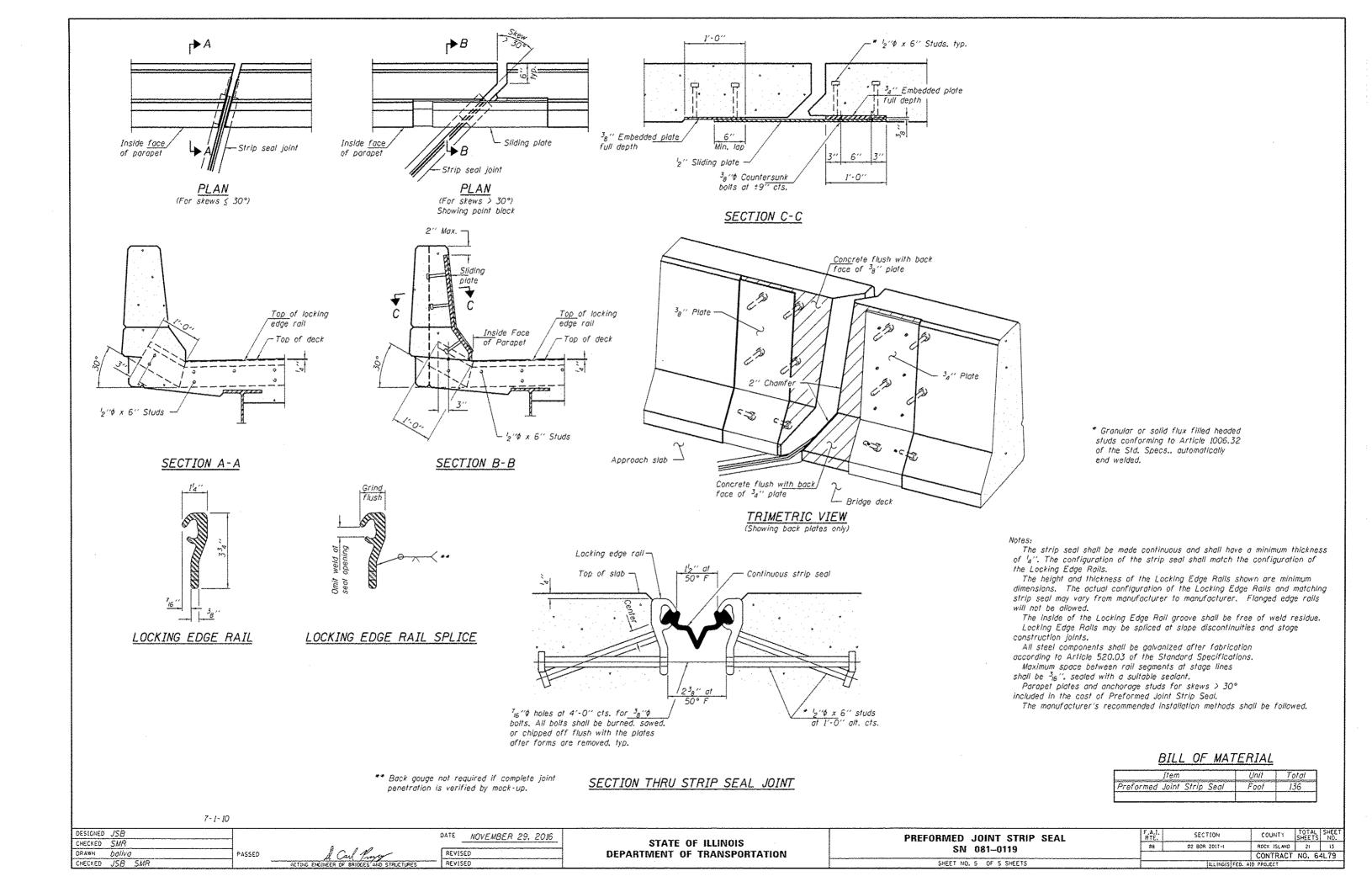
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TOTAL SHEET'S NO.

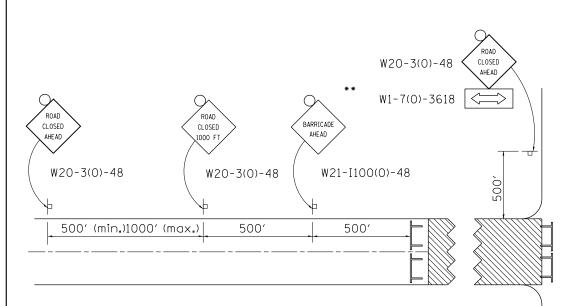
SHEET NO. 4 OF 5 SHEETS

THE SHEET'S NO.

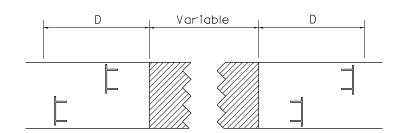
THE SHEET'S



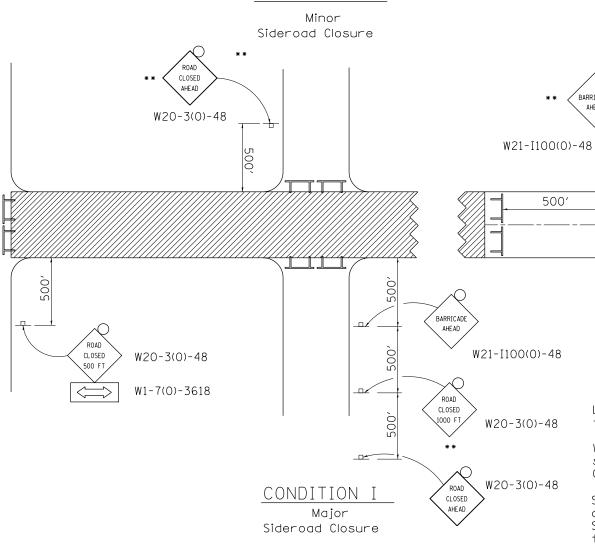
TRAFFIC CONTROL FOR ROAD CLOSURE



ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.



CONDITION II

SYMBOLS



Work area



Type III Barricade with Flashers



Sign with flashing light

GENERAL NOTES

W20-3(0)-48

500' (min.)1000' (max.)

W20-3(0)-48

500'

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

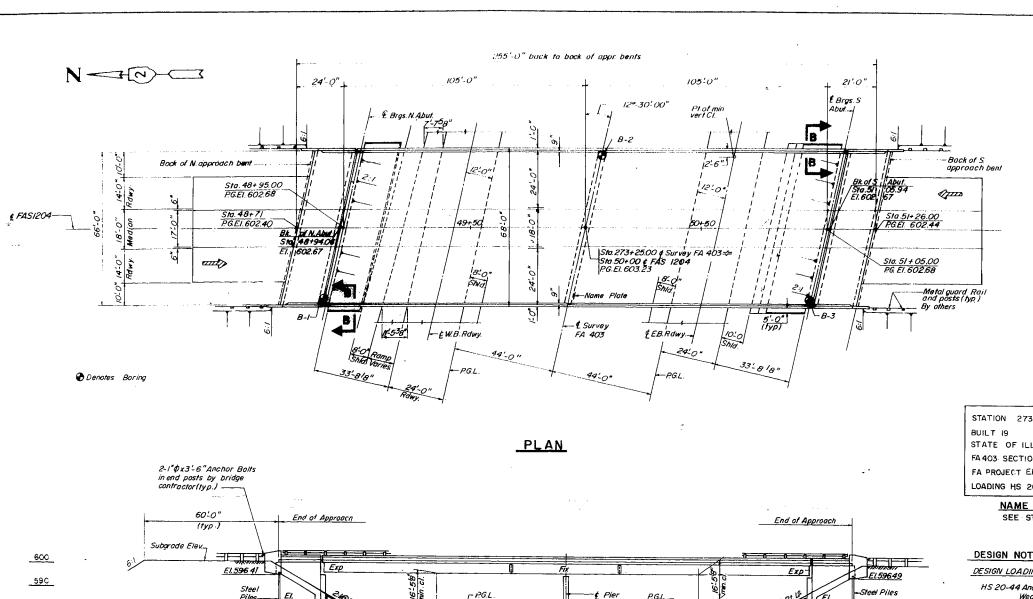
All dimensions are in inches unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION REGION 2 / DISTRICT 2 STANDARD

SHEET NO. __ OF ___ SHEETS | STA. ____

TO STA.



El.572.72

ELEVATION

0.0%

PROFILE FA-403 ALONG & SURVEY

... Steel Piles

Rdwv

SOUTH ABUTMENT

<u>Dimensions are at right</u> angles to & at FA 403

400'V.C.

PROFILE FAS 1204

Top of Class I

STATION 273+25.00 STATE OF ILLINOIS FA 403 SECTION 161 - IHB FA PROJECT EBRF-403-1(7) LOADING HS 20

NAME PLATE SEE STD 2113

DESIGN NOTES

DESIGN LOADING

HS 20-44 And Allowance For 25 P.S.F. Future Wearing Surface.

DESIGN STRESSES

fc = 1400 P.S.I Except As Follows: fc = 1200 P.S.I. For Deck Slab. fc=1000 P.S.I. For Conc. In Contact with Earth fs = 20,000 PS.I - MIBSStructural Steel fs = 20,000 PSI- Reinforcement Steel v =75 P.S.I. Allowable Shear in Footings n =10 Allowable Live Load Deflection= L/1200 (Composite)

DESIGN SPECIFICATIONS AASHO 1969 As Applicable

TOTAL AMEET BHEETS NO. SHEET NO. - 403 ₁₋₁ ROCK ISLAND 15 внеета 545 FED. ROAD DIST. NO. 2

GENERAL NOTES

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two '8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

All Reinforcement bars shall be lapped 24 diameters unless otherwise shown

Field connections shall be bolted using high strength bolts. Bolts 34 $^*\phi$, open holes 13 16 $^{\circ}\phi$, unless otherwise noted.

Field welding of construction accessories will not be permitted to the bottom of flange of beams or girders 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 creas will be permitted only when approved by the engineer

Anchor bolts shall be set before bolting cross frames over suppor

Slope wall shall be reinforced with welded wire fabric 6'x 6'' mesh, weighing $58^{\#}$ per 100 Sq. Ft.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments

The contractor shall drive three steel lest piles in a permanent location, one each at the north and south abutments and pier as directed by the engineer pefore ordering the remainder of the piles.

The concrete rail section above the Mandatory const. joint at the top of the slab shall be constructed of class X concrete, except the aggregates shall conform to the requirements of handrail concrete.

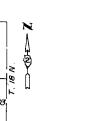
Protective Coat shall not be applied to surfaces to which Woterproofing Me System is applied. The Basic Lead Siljico Chromate Point System shall be used for shop and field painting of structural steel

The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders or wide flange beams.

TOTAL BULL OF MATERIAL

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT.	TOTAL
Structure Excavation	Cu. Yds.		/35	/355
Protective Coat	Sq. Yds.	747	_	747
Class "X" Concrete	Qu. Yds.	665.7	426.6	1092.3
Structural Steel	L.Sum	0 29		029
Aluminum Railing	Lin.Ft.	499		499
Reinforcement Bars	Lbs.	162,630	52,570	215,200
Stud Shear Connectors	Each	3402	_	3402
		-		
Steel Piles HP8 x 36	Lin.Ft.		3441	344/
Test Piles HP8 x36	Each	 -	3	3
Name Plate	Each	- "	,	1
Slope Wall 4"	Sq.Yds		461	461
Bit. Conc. Surface Course Ci, I	Tons	//3	_	//3
Vaterproofing Mem. System	Sq.Yds.	/338	_	1338
Sand Backfill	Cu.Yds.		56/	56/
Preformed Jt. Sealer (4")	Lin. Ft.	139		139
Permanent B. M. Type I	Each	1		1

Structural Steel 485,060 Lbs



APPROVED ADEQUACY ONL oPBridge & Traffic Structu: 98

GENERAL PLAN & ELEVATION FA 403 SECTION 161- INB

FA 403 UNDER FAS 1204

ROCK ISLAND COUNTY STATION 273+25.00

13 Prop. Structure FA 40 LOCATION MAP

SECTION B-B

Welded Wire Fabric 6 x 6 "

Wires W. 58 7100 0'

Edge of deck-

FOR INFORMATION ONLY

-Steel Piles

33 - 8 · /8"

SECTION THRU SLOPEWALL

AT NORTH ABUT

Existing Ground Line

Back of abut.

NORTH ABUTMENT

580

570

Book of abut.

DESIGNED

CHECKED

DRAWN

CHECKED

SECTION THRU SLOPEWALL

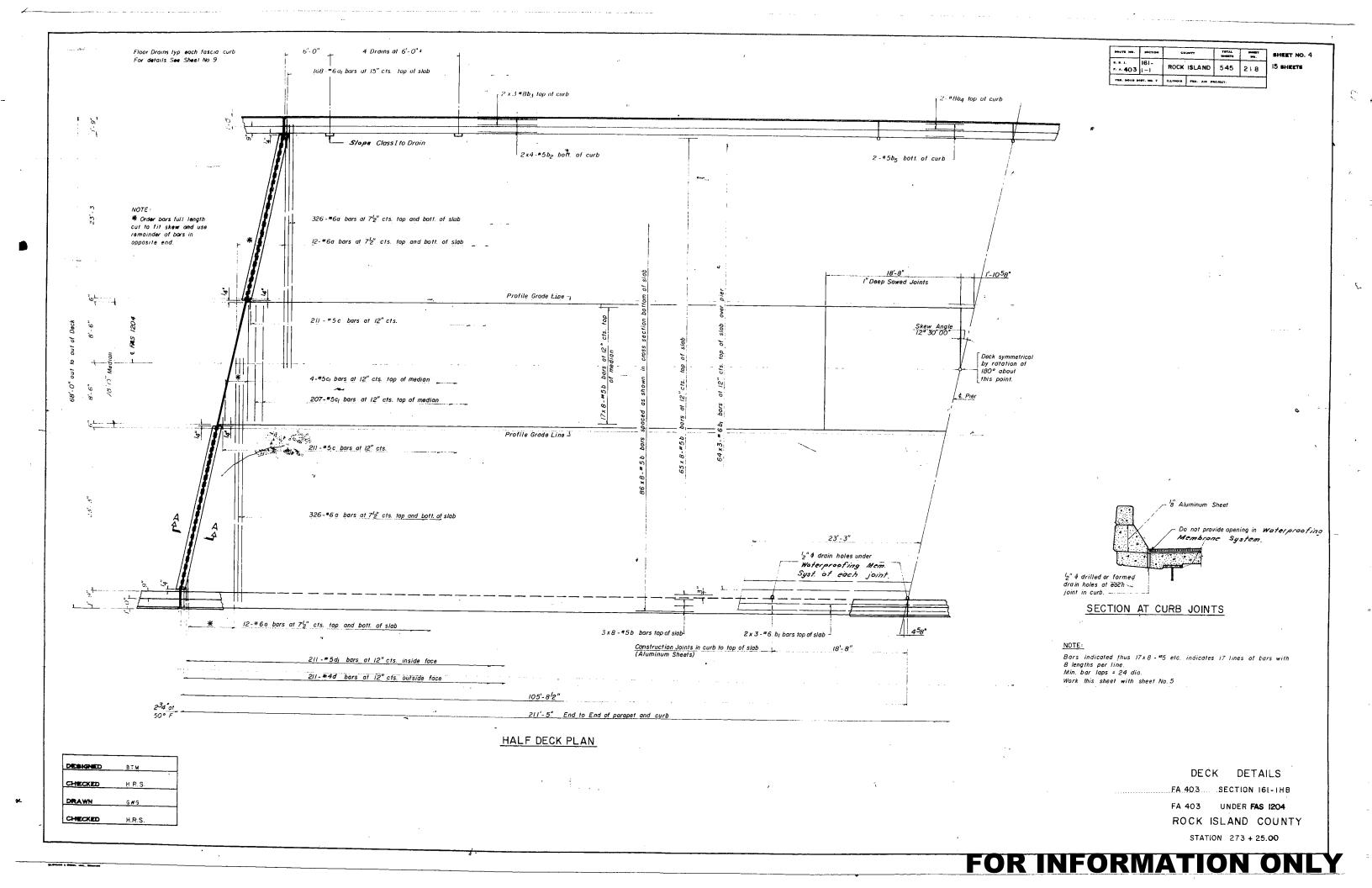
AT SOUTH ABUT

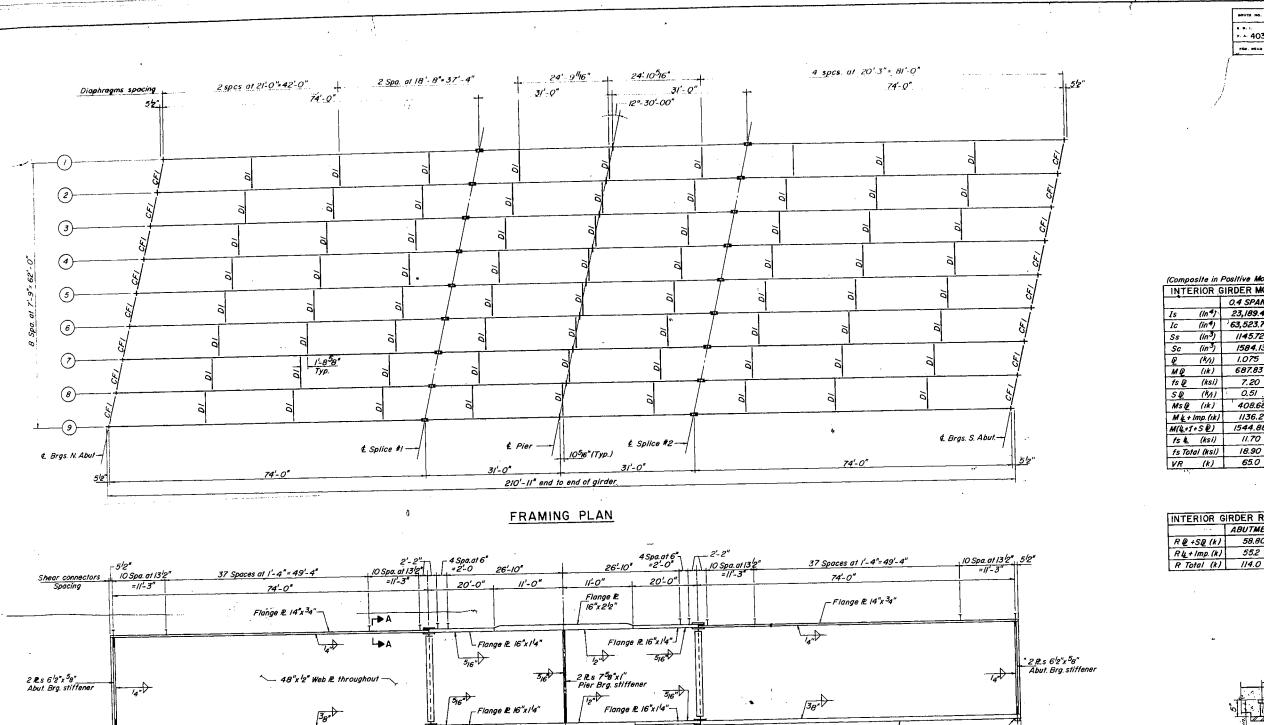
OMP

B.T.M.

A.M

DMP





Flange R\\\ 16"x2¹2"

Flange R. 14"x1⁵8"—

74'-0"

⊈ Splice #1 -

105'-0"

8 12°V

B.T.M.

H. R. S.

H.R.S.

DESIGNED

CHECKED

DRAWN

CHECKED

– €. Brg. N. Abut.

58"

- & Pier

210'-11" end to end of girder

GIRDER ELEVATION

	SECTION.	ce	ынтт	TOYAL BHEETS	BHEET MG.
 r 403	161- 1-1	ROCK	ISLAND	545	221
FED. BOAD P	197. HO. 7	ILLINGIS	PEO. AID P	HOJECT.	

(Composite in Positive Moment Areas only) INTERIOR GIRDER MOMENT TABLE O.4 SPAN I PIER (In⁴) 23,189.40 55,613.0 Ic (in4) 63,523.74 Ss (in³) 1145.72 2098.6 Sc (in³) | 1584.13 Q (k/1) 1.075 MQ (ik) 687.83 1.075 1777.50 10.16 7.20 0.51 0.51 MsQ (ik) 408.68 665.10 M & + Imp (ik) 1136.2 1010.10 1675.20 M(4+1+50) 1544.88 11.70 9.58 fs Total (ksl) 18.90

Is and Ss are the moment of inertia and section modulus of the steel section.

15 SHEETS

Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs.

VR is the maximum 4.+ Impact shear range in span.

INTERIOR GIRDER REACTION TABLE						
	ABUTMENT	PIER				
R Q +SQ (k)	58.80	210.7				
R4 + Imp.(k)	55.2	93.7				
R Total (k)	114.0	304.4				

12"

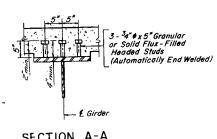
& Brg. S. Abut.

Flange R. 14"x1⁵8"]

74'-0"

105'-0"

- € Splice #2



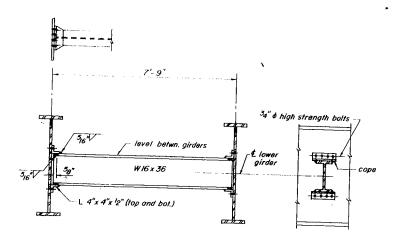
SECTION A-A No. Req'd = 3402

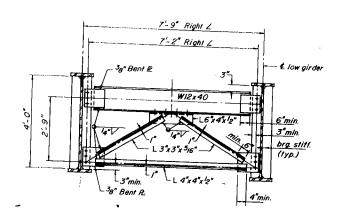
> STRUCTURAL STEEL SECTION 161-1HB FA 403 FA 403

UNDER HAS 1204 ROCK ISLAND COUNTY STATION 273 + 25.00

FOR INFORMATION ONL

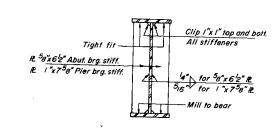






TYPICAL DIAPHRAGM D-I

TYPICAL END CROSS FRAME CF-I





Note: Hordened washers shall be regid. over 1516 & holes.

	*1	TOP WEB E	LEVATIONS		
LOCATION	£ Brg. N Abut.	É Splice /	£ Pier	4-Sptice 2	É Brg. S. Abu
Girder I	601.467	601.800	601.800	601.800	601.323
Girder 2	601.611	601.962	601.962	601.962	601.503
Girder 3	601.716	602.086	602.086	602.086	601.644
Girder 4	601.820	602.207	602.207	602.207	601.784
Girder 5	601.923	602.328	602.328	602.328	601.923
Girder 6	601.784	602.207	602.207	602.207	601.820
Girder 7	601.644	602.086	602086	602.086	601.716
Girder 8	601.503	601.962	601.962	601.962	601.611
Girder 9	601.323	601.800	601.800	601.800	601.467

DESIGNED	8 T M
CHECKED	няѕ
DRAWN	AM
CHECKED	H R S.

78" H.S. Bolts

R 2"x14"x1'-6"

L 78" H.S. Bolls

Top Flange

Web Splice

Bottom Flange

DETAIL OF SPLICE #1
(Splice #2 opposite hand)

2 58"x14"x3'-04"

2 Rs 2"x 6"x 3'-04"

2 fLs ¹2"x. 19" x 3'-7" (1 - each face)

78" O H.S. Bolls

-2 Rs 58"x6"x3'-64"

-R38"x14"x1'-9"

-R 58"x14"x 3: 614"

STRUCTURAL STEEL

Ü

SECTION 161-1HB FA 403

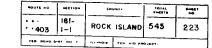
ROCK ISLAND COUNTY

UNDER FAS 1204

FOR INFORMATION 273 + 25.00

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS

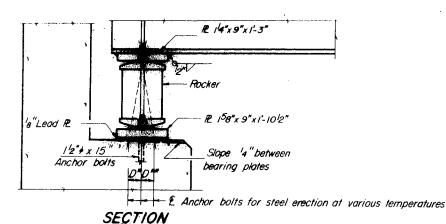
(2)



14" Pintles threaded or press fit

138" Holes for

:Plane edges



PLAN

AT ABUTMENT

NOTE A 138" Holes - I" deep in top P. for pintles. Thread or press fit pintles into bottom R.

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

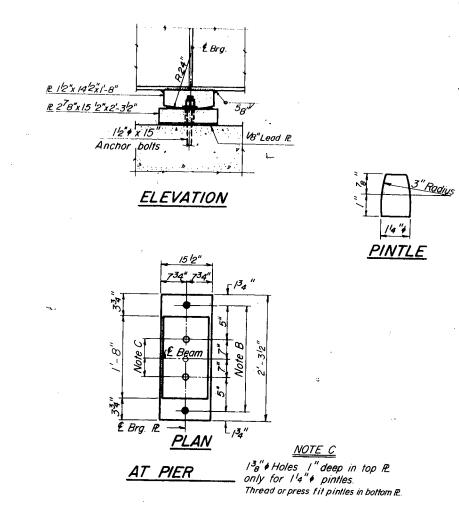
a) D^* (Side of brg. away from fixed brg.) D* 's" per each IOD' of expansion for every 15° fall below the normal temp. of 50°F D**(Side of brg. toward fixed brg.) D** = 's" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.

2"4 Holes for 1/2"4 anchor bolts 56" x 2 12" x 2 12" R. Washers

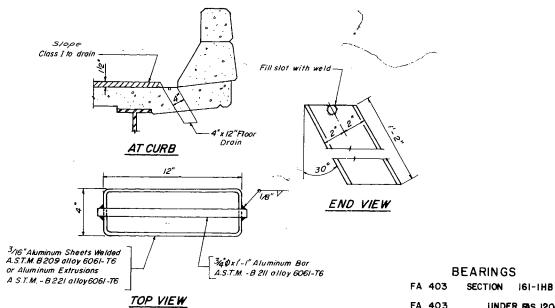
b) After beams have been erected and dimensions D*or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

r		
DESIGNED	B. T. M.	
CHECKED	H.R.S	
CHECKED	77.71.3.	
DRAWN	A. M.	
CHECKED	H.R. S.	
OFFECKED	71.R.S.	

under nut.



BEARING ASSEMBLY DETAILS



FLOOR DRAINS

FA 403 UNDER FAS 1204 ROCK ISLAND COUNTY STATION 273+25.00

BEARINGS

