

136

03-08-2019 LETTING ITEM 136

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	1
ILLINOIS CONTRACT NO. 70D46				

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-5

# PROPOSED HIGHWAY PLANS

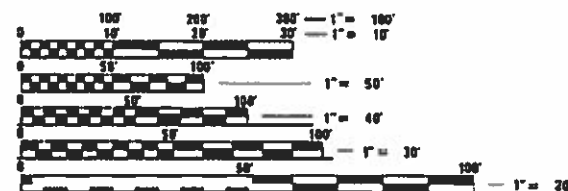
FAP ROUTE 760 (IL-48)  
SECTION 125BR-1  
PROJECT  
BRIDGE DECK REPAIRS FRIENDS CREEK  
DITCH 3 MILES NORTH OF I-72  
PIATT COUNTY

C-95-005-19

IL-48

CURRENT TRAFFIC DATA STR. 074-0082	
2017 ADT	= 1,300
2037 ADT	= 1,550
PU+PC %	= 73.1
SU %	= 7.7
MU%	= 19.2

**DESIGN DESIGNATION**  
MINOR ARTERIAL



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.

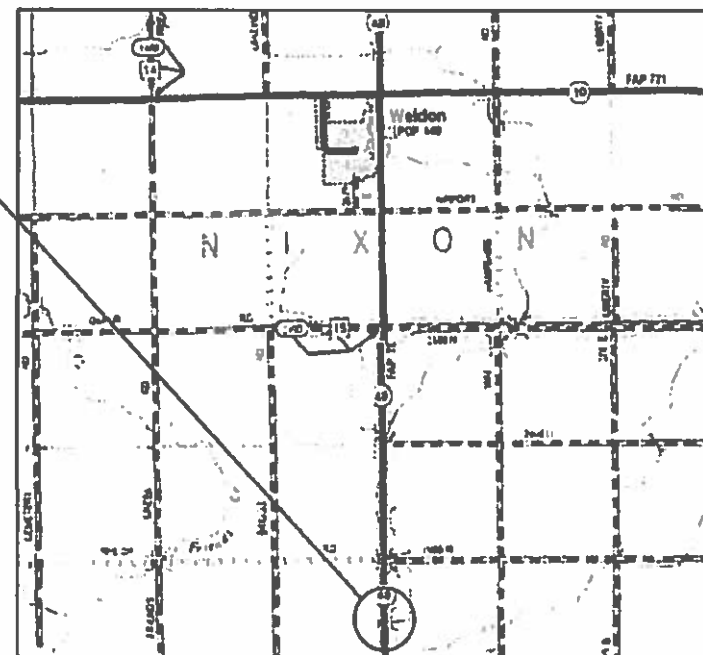
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

TOWNSHIP: GOOSE CREEK

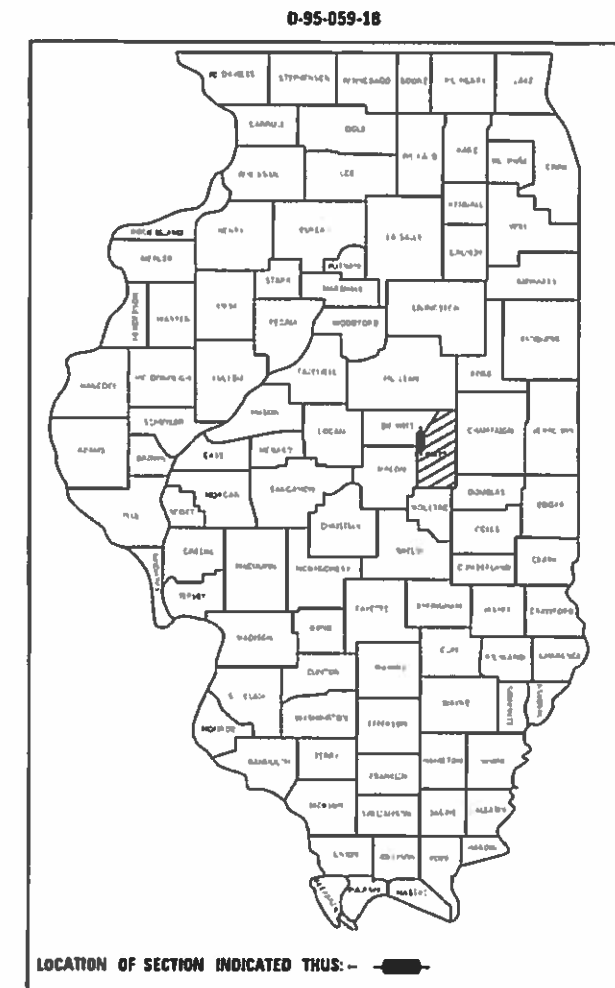
PROJECT ENGINEER: TIM BRADENBURG  
PROJECT MANAGER: ERIC SHAWLER  
1-217-465-4181

CONTRACT NO. 70D46

EXISTING S.N. 074-0082  
F.A.P. 760 (IL-48)  
OVER FRIENDS CREEK DITCH  
STATION 1002+62.75  
BRIDGE DECK REPAIRS



GROSS LENGTH = 400.00 FT. = 0.075 MILE  
NET LENGTH = 400.00 FT. = 0.075 MILE



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED *November 27 2018*  
*Paul J. Bradenburg*  
DEPUTY DIRECTOR OF HIGHWAYS REGIONAL 3 ENGINEER

*Feb 19 2019*  
*Paul J. Bradenburg*  
ENGINEER OF DESIGN AND ENVIRONMENT

*Feb 19 2019*  
*Paul J. Bradenburg*  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF STANDARDS
2	GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6-7	STAGE CONSTRUCTION DETAILS
8	DETAILS FOR MILLING & PAVING TRANSITIONS
9-34	STRUCTURE PLANS S.N. 074-0082
35-36	DETAILS FOR WIDTH RESTRICTION SIGNING

## LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND FOOT
667101-02	PERMANENT SURVEY MARKERS
701006-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM EDGE OF PAVEMENT
701201-05	LANE CLOSURE, 2L,2W, DAY ONLY, FOR SPEEDS > = 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701321-17	LANE CLOSURE, 2L,2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

## GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

GN 105.07C

EXISTING STATE-OWNED AND MAINTAINED UNDERGROUND UTILITY FACILITIES EXIST WITHIN THE R.O.W. THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE IT'S OWN FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE AT THEIR OWN EXPENSE FOR SECURING AN APPROVED LOCATING FIRM TO LOCATE ALL EXISTING IDOT UNDERGROUND FACILITIES PRIOR TO COMMENCING ANY EXCAVATION, PER THE REQUIREMENTS OF ARTICLE 803 OF THE STANDARD SPECIFICATIONS. UTILITY LOCATES MAY ALSO BE REQUIRED OUTSIDE THE PROJECT LIMITS, SUCH AS FOR TRAFFIC CONTROL SIGNING AND OTHER ITEMS. THE CONTRACTOR MAY OBTAIN, ON REQUEST, PLANS OF EXISTING ELECTRICAL FACILITIES FROM THE DEPARTMENT. FOR FURTHER INFORMATION, THE CONTRACTOR MAY CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER, GARY SIMS, AT 217-251-4859.

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR LOCATING AND PROVIDING PROTECTION FOR FACILITIES DURING ALL PHASES OF CONSTRUCTION. IF, AT ANY TIME, THE FACILITIES ARE DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT AND MAKE ALL NECESSARY ARRANGEMENTS FOR REPAIR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	IL 48	IL 48
Mixture Use	Surface & Top lift of Shoulder	Shoulders (Bottom 4 1/2")
AC/PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 9.5	IL 19.0
Friction Aggregate	Mix D	N.A.
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N.A.	N.A.

G.N.-482

ALL LOW ESAL MIXTURE PLACED AS HOT-MIX ASPHALT SHOULDERS SHALL BE COMPACTED TO 94.0 - 98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO IL 9.5L GRADATION MIXES. THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR THE IL 9.5L USING STANDARD CORRELATION PROCEDURES WHEN MORE THAN 3,000 TONS ARE TO BE PLACED.

G.N.- 667

THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS. PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR LAYOUT OF THESE MARKERS.

G.N.- Z0038

AN ALUMINUM TABLE OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

SEE R.E. FILE FOR CALCULATIONS AND SCHEDULES.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STANDARDS, GENERAL NOTES  
S.N. 074-0082**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	2
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

**PIATT CO.**  
**FAP 760 (IL-48)**  
**RURAL / TWO-LANE**  
**BRIDGE DECK REPAIR**  
**S.N. 074-0082**  
**100% STATE**  
**0059**

CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	54.0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	258.0
40603415	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, N50	TON	25.0
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	10.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	109.0
50102400	CONCRETE REMOVAL	CU YD	11.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	12.6
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4,600.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,420.0
50800515	BAR SPLICERS	EACH	24.0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	6.0
52100520	ANCHOR BOLTS, 1"	EACH	24.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6.0
67100100	MOBILIZATION	L SUM	1.0

\* SPECIALTY ITEMS

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	DRAWN -	REVISED -
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PLOT DATE = 11/27/2018	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**S.N. 074-0082**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	3
			CONTRACT NO. 70D46	
		ILLINOIS FED. AID PROJECT		

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PIATT CO.
FAP 760 (IL-48)
RURAL / TWO-LANE
BRIDGE DECK REPAIR
S.N. 074-0082
100% STATE
0059

CODE NO.	ITEM	UNIT	QUANTITY
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	500.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	462.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	249.0
50300260	BRIDGE DECK GROOVING	SQ YD	646.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12.0
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	3,740.0
Z0001905	STRUCTURAL STEEL REPAIR	POUND	4,230.0
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	694.0

\* SPECIALTY ITEMS

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PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/27/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
S.N. 010-0082**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 70D46	
ILLINOIS FED. AID PROJECT				



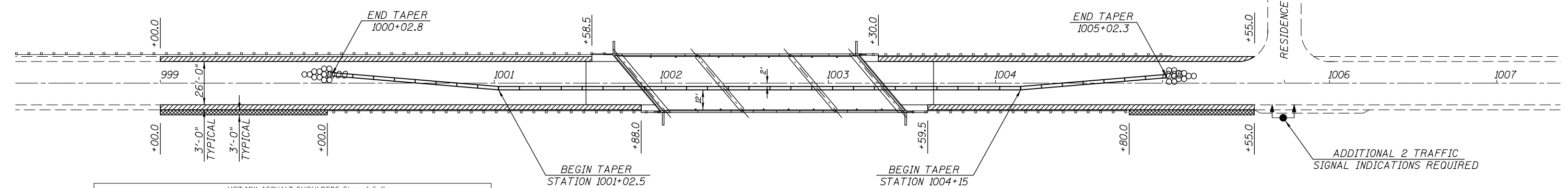


# STAGE I CONSTRUCTION

## S.N. 074-0082



EARTH EXCAVATION Stage I & II							
Structure	Side	Begin Station	End Station	Length (foot)	Shldr Width (foot)	Depth (foot)	Removal (cu yd)
074-0082	Northbound	999+00	1001+88	288.0	3.0	0.5	16.0
	Northbound	1003+59.5	1005+55	195.5	3.0	0.5	10.86
	Southbound	999+00	1001+58.5	258.5	3.0	0.5	14.36
	Southbound	1003+30	1005+55	225.0	3.0	0.5	12.5
Totals							53.72



HOT-MIX ASPHALT SHOULDERS Stage I & II							
Structure	Side	Begin Station	End Station	Length (foot)	Shldr Width (foot)	Area (sq yd)	HMA (Tons)
074-0082	Northbound	999+00	1001+88	288.0	3.0	96.0	32.26
	Northbound	1003+59.5	1005+55	195.5	3.0	65.17	21.90
	Southbound	999+00	1001+58.5	258.5	3.0	86.17	28.95
	Southbound	1003+30	1005+55	225.0	3.0	75.0	25.20
Totals							108.31

PRE-STAGE HMA SHOULDER WIDENING, 6" (EARTH EXCAVATION & HMA SHOULDERS)  
 AGGREGATE SHOULDER, TYPE B (WEDGE)

**PLAN NOTES:**

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION. TEMPORARY TRAFFIC SIGNALS REQUIRED FOR STANDARD 701321 WILL BE MEASURED FOR PAYMENT AS EACH, WHERE EACH IS DEFINED AS THE ENTIRE TRAFFIC SIGNAL SYSTEM AT A BRIDGE REGARDLESS OF THE NUMBER OF SIGNAL HEADS.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201 AND 701206.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

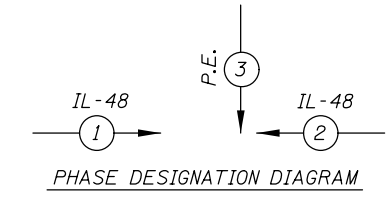
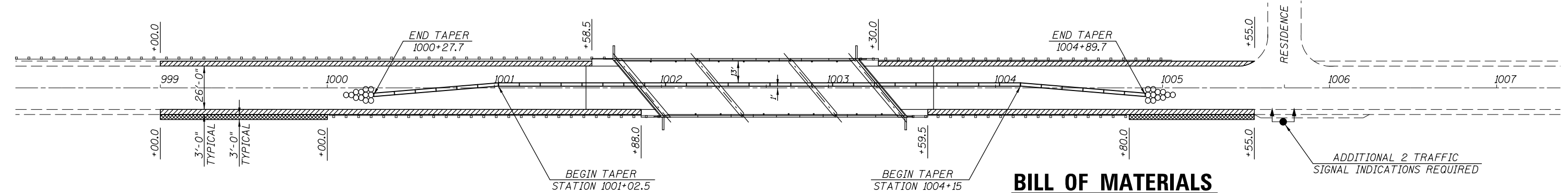
REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST TO BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED OR COVERED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

# STAGE II CONSTRUCTION

## S.N. 074-0082

AGGREGATE SHOULDER, TYPE B (WEDGE) Stage I & II							
Structure	Side	Begin Station	End Station	Length (foot)	Shldr Width (foot)	Area (cu yd)	AGG. (Tons)
074-0082	Northbound	999+00	1000+00	100.0	3.0	2.78	5.70
	Northbound	1004+80.0	1005+55	75.0	3.0	2.08	4.26
Totals							9.96



PRE-STAGE HMA SHOULDER WIDENING, 6" (EARTH EXCAVATION & HMA SHOULDERS)  
 AGGREGATE SHOULDER, TYPE B (WEDGE)

# BILL OF MATERIALS

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	54.0
HOT-MIX ASPHALT SHOULDERS	TON	109.0
AGGREGATE WEDGE SHOULDERS, TYPE B	TON	10.0
TEMPORARY CONCRETE BARRIER	FOOT	500.0
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	462.5
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0

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PLOT SCALE = 60.0000' / in.	DRAWN -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

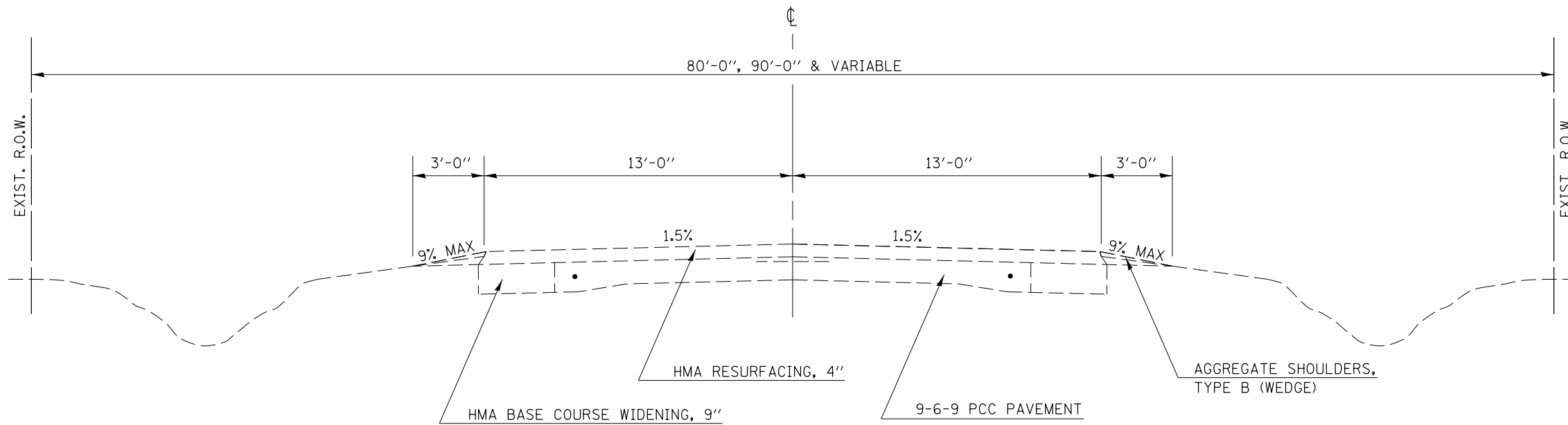
TEMPORARY CONCRETE BARRIER DETAILS  
S.N. 074-0082

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	6
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

# EXISTING TYPICAL CROSS SECTION

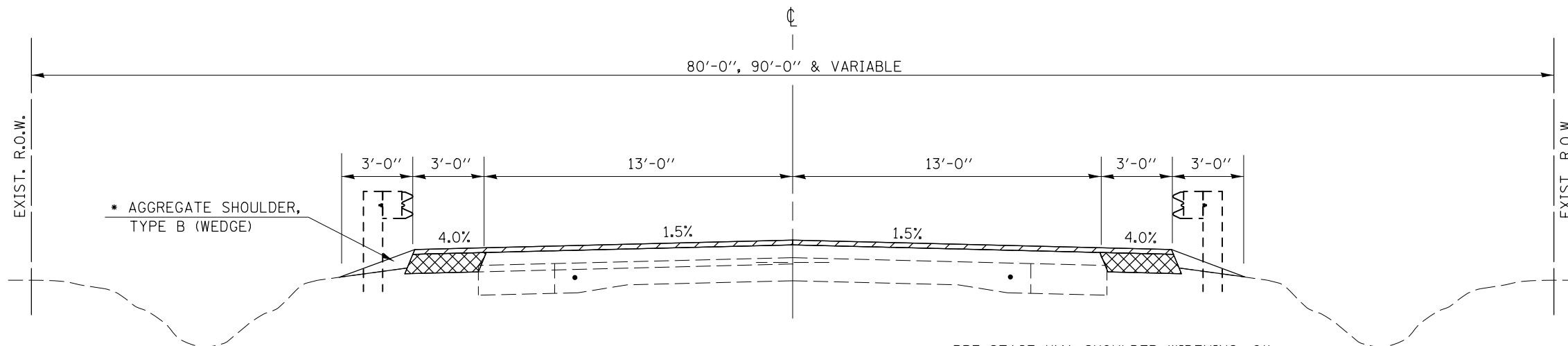
STA. 998 + 00 TO STA. 1008 + 00.00



# PROPOSED TYPICAL CROSS SECTION

\* AGGREGATE SHOULDER, TYPE B (WEDGE)  
NOT REQUIRED AT GUARDRAIL LOCATIONS

STATION	TO	STATION	
1001 + 19.87		1001 + 54.87	SOUTH APPROACH TRANSITION
1003 + 62.88		1003 + 97.88	NORTH APPROACH TRANSITION



- PRE-STAGE HMA SHOULDER WIDENING, 6" (EARTH EXCAVATION & HMA SHOULDERS)
- HMA SURFACE REMOVAL, VARIABLE DEPTH & HMA SURFACE COURSE, IL 9.5 FG, N50 (1 3/4")

PRE-STAGE HMA SHOULDER WIDENING, 6" (EARTH EXCAVATION & HMA SHOULDERS)

STATION	TO	STATION
999+00 LT.		1001+58.5 LT.
1003+30 LT.		1005+55 LT.
999+00 RT.		1001+88 RT.
1003+59.5 RT.		1005+55 RT.

AGGREGATE SHOULDER, TYPE B (WEDGE)

STATION	TO	STATION
999+00 RT.		1000+00 RT.
1004+80 RT.		1005+55 RT.

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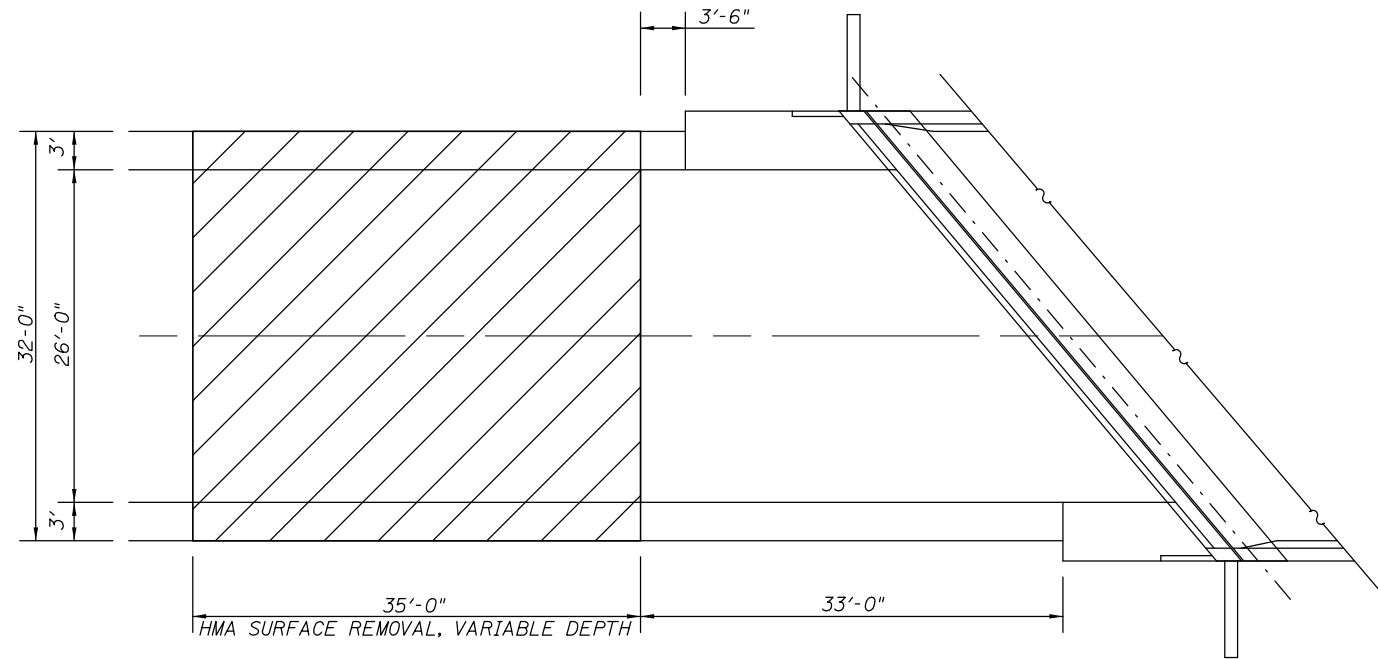
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

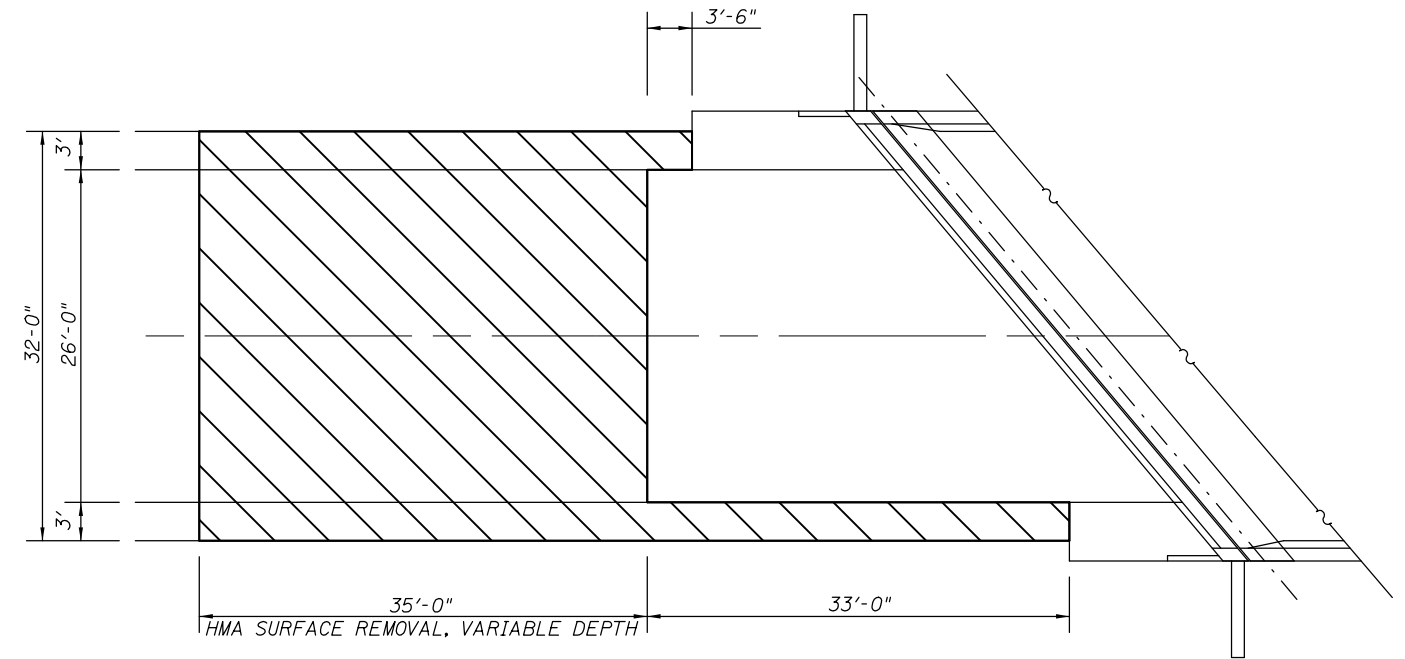
TYPICAL CROSS SECTION  
S.N. 074-0082

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	7
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

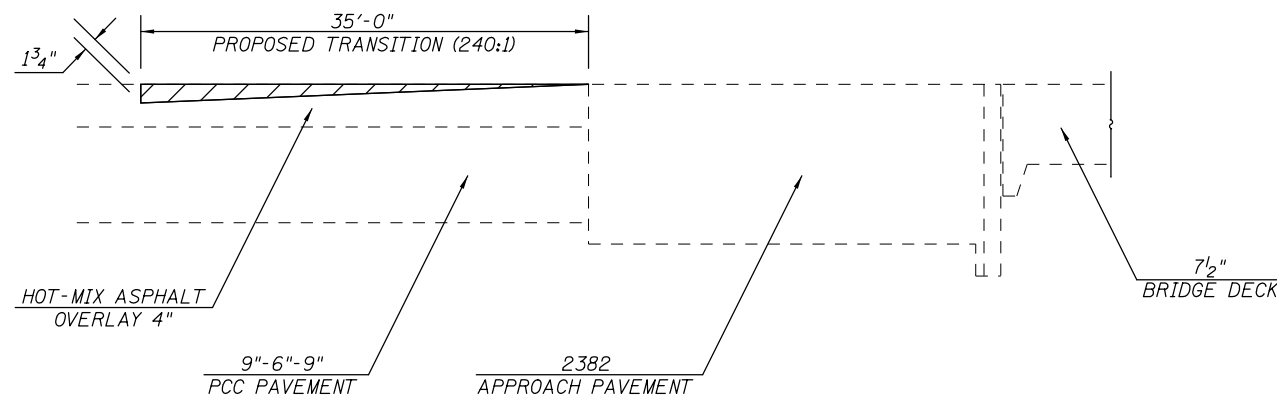


**EXISTING PLAN**  
(SOUTH TRANSITION SHOWN  
NORTH TRANSITION SIMILAR)

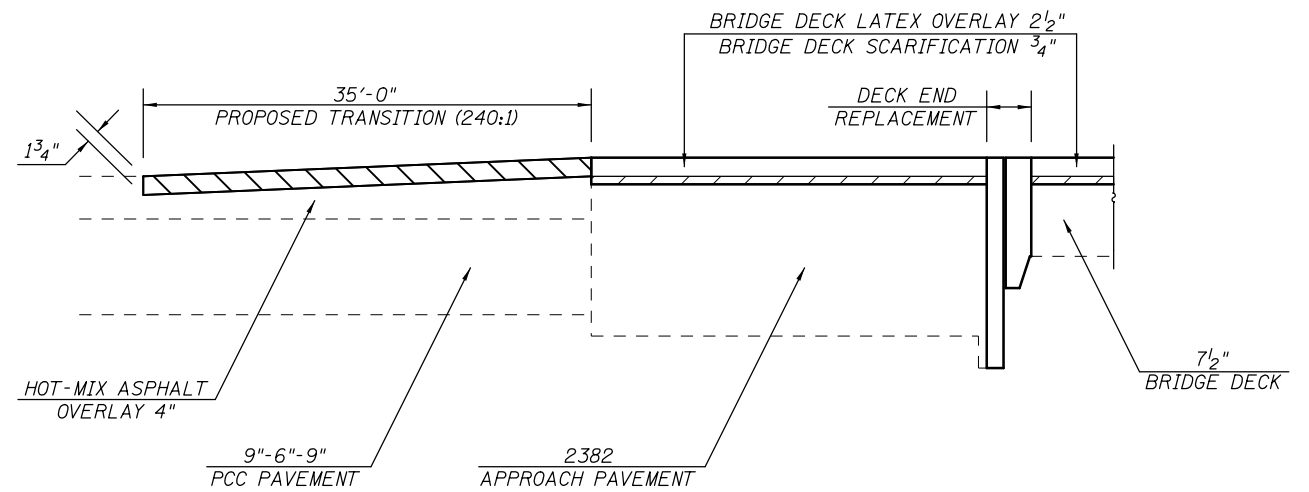


**PROPOSED PLAN**  
(SOUTH TRANSITION SHOWN  
NORTH TRANSITION SIMILAR)

- HMA SURFACE REMOVAL, VARIABLE DEPTH
- HMA SURFACE COURSE, IL 9.5 FG, N50 (196 LBS/SQ YD)



**EXISTING ELEVATION**  
(SOUTH ABUTMENT SHOWN  
NORTH ABUTMENT SIMILAR)



**PROPOSED ELEVATION**  
(SOUTH ABUTMENT SHOWN  
NORTH ABUTMENT SIMILAR)

**NOTE:**  
SECTION CORNER: NE<sub>4</sub> OF SECTION 33 IN NORTH TRANSITION, DO NOT DISTURBED.  
PAVER ELECTRONIC GRADE CONTROL SHALL BE OPERATED FROM A PRESET GRADE CONTROL STRINGLINE, SEE ARTICLE 406.06(e)  
PART OF THE PRE-STAGE SHOULDER RESURFACING MAY BE REMOVED DURING FINAL PAVING TRANSITIONS THAT ARE REQUIRED TO MATCH PROPOSED DECK ELEVATIONS.

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
HMA ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	249.0
HMA ASPHALT SURFACE COURSE, IL 9.5 FG, N50	TON	25.0

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FILE NAME: \\FILENAME  
PROJECT: \\PROJECT  
DRAWING: \\DRAWING  
DATE: 11/27/2018

USER NAME = shawleres	DESIGNED -	REVISED -
PLOT SCALE = 60.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/27/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

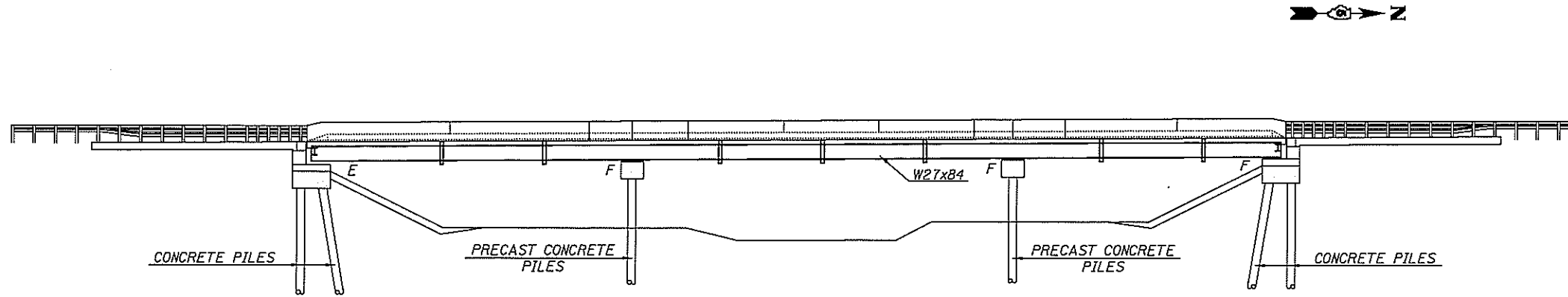
**APPROACH TRANSITION DETAILS  
S.N. 074-0082**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

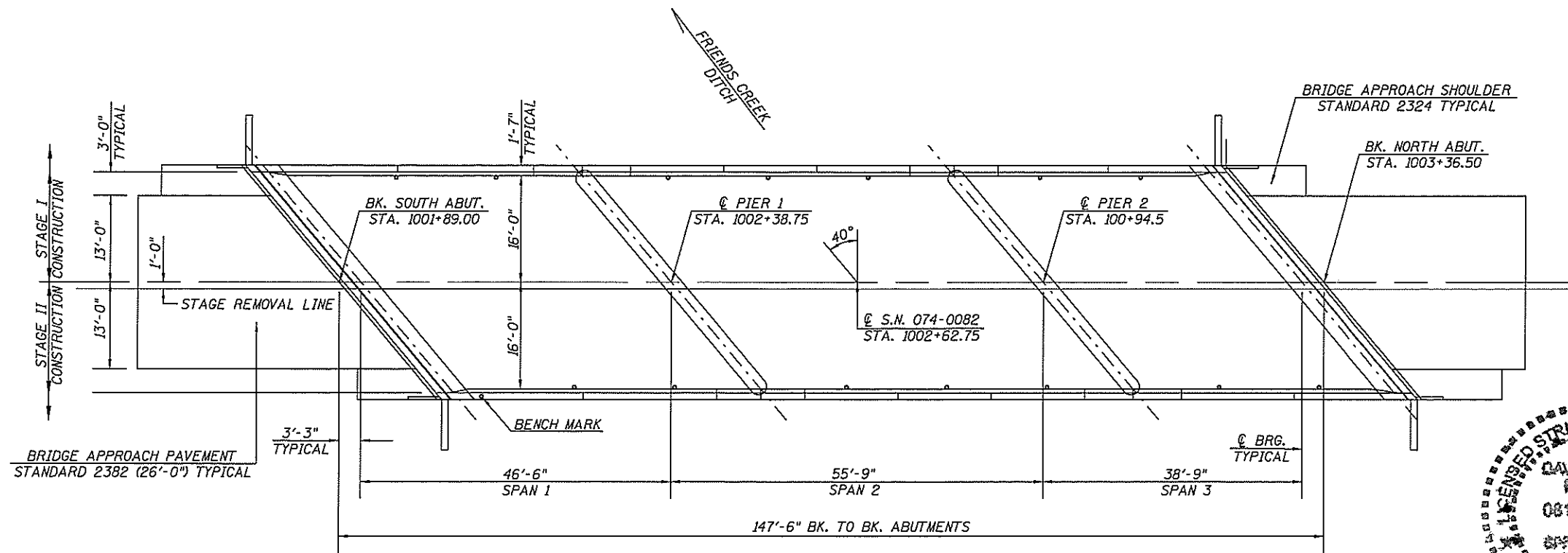
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	8
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

STRUCTURE NO. 074-0082 BUILT AS FAP 760, SEC. 125BR IN 1987 AT STATION 1002+62.75 BY THE STATE OF ILLINOIS IN PIATT COUNTY. THE EXISTING STRUCTURE IS A THREE SPAN STRUCTURE WITH A BACK-TO-BACK ABUTMENT LENGTH OF 147'-6". AN OUT-TO-OUT WIDTH OF 35'-2" AND CLEAR WIDTH OF 32'-0" FACE TO FACE OF PARAPET. THE SUPERSTRUCTURE CONSIST OF SIX W27X84 CONTINUOUS NON-COMPOSITE WEATHERING STEEL BEAMS SUPPORTING A 7½" REINFORCED CONCRETE DECK. THE SUPERSTRUCTURE IS SUPPORTED BY OPEN PILE BENT PIERS AND ABUTMENTS.

WORK SHALL BE COMPLETED WITH STAGE CONSTRUCTION.



**ELEVATION**



**PLAN VIEW**



*David Carl Puzey 1/23/19*  
*Expires 1/30/20*

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	DRAWN - ESS	REVISED -
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PLOT DATE = 11/27/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 S.N. 074-0082

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	9
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 26 SHEETS STA. TO STA.

## SCOPE OF WORK

1. COMPLETE BRIDGE DECK SCARIFICATION.
2. COMPLETE FULL-DEPTH DECK PATCHING, REMOVAL DECK ENDS, PARAPETS, AND HATCH BLOCKS.
3. COMPLETE STRUCTURAL REPAIR OF CONCRETE ON ABUTMENTS AND BACK WALL.
4. COMPLETE STRUCTURAL STEEL REPAIR, REPLACE BEARINGS AND END DIAPHRAGMS.
5. CAST DECK ENDS, PARAPET ENDS AND HATCH BLOCKS.
6. PLACE BRIDGE DECK LATEX CONCRETE OVERLAY, 2½".
7. COMPLETE MILLING TRANSITIONS AND HMA OVERLAY AT APPROACH ENDS.
8. PLACE SILICONE JOINT SEAL.
9. COMPLETE BRIDGE DECK GROOVING.

## TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	11.4
CONCRETE SUPERSTRUCTURE	CU YD	12.6
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4,600.0
REINFORCEMENT BARS (EPOXY COATED)	POUND	1,420.0
BAR SPLICERS	EACH	24.0
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	6.0
ANCHOR BOLTS 1"	EACH	24.0
BRIDGE DECK GROOVING	SQ YD	646.0
JACK AND REMOVE EXISTING BEARINGS	EACH	12.0
STRUCTURAL STEEL REMOVAL	POUND	3,740.0
STRUCTURAL STEEL REPAIR	POUND	4,230.0
BRIDGE DECK LATEX CONCRETE OVERLAY, 2½"	SQ YD	694.0
BRIDGE DECK SCARIFICATION ¾"	SQ YD	694.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH = OR < 5 INCHES)	SQ FT	16.0
DECK SLAB REPAIR (FULL-DEPTH, TY I)	SQ YD	6.0
DECK SLAB REPAIR (FULL-DEPTH, TY II)	SQ YD	10.0
SILICONE JOINT SEAL 1"	FOOT	46.0
SILICONE JOINT SEAL 2"	FOOT	46.0
POLYMER CONCRETE	CU FT	10.2

## GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE 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 WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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.

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 THE 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 STRUCTURAL STEEL THAT WILL BE IN CONTACT WITH NEW STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED PRIOR TO ERECTION AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

ALL NEW STRUCTURAL STEEL AND BEARING ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DIP GALVANIZING FOR STRUCTURAL STEEL".

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270, GR. 50, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STD. SPECS. WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

AREAS OF DECK SLAB REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK SLAB REPAIRS ON AS-BUILT PLANS.

SEE SPECIAL PROVISION "DECK SLAB REPAIR" FOR ADDITIONAL REQUIREMENTS PERTAINING TO DECK SLAB REPAIR.

SYNTHETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK LATEX CONCRETE OVERLAY, SEE SPECIAL PROVISIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

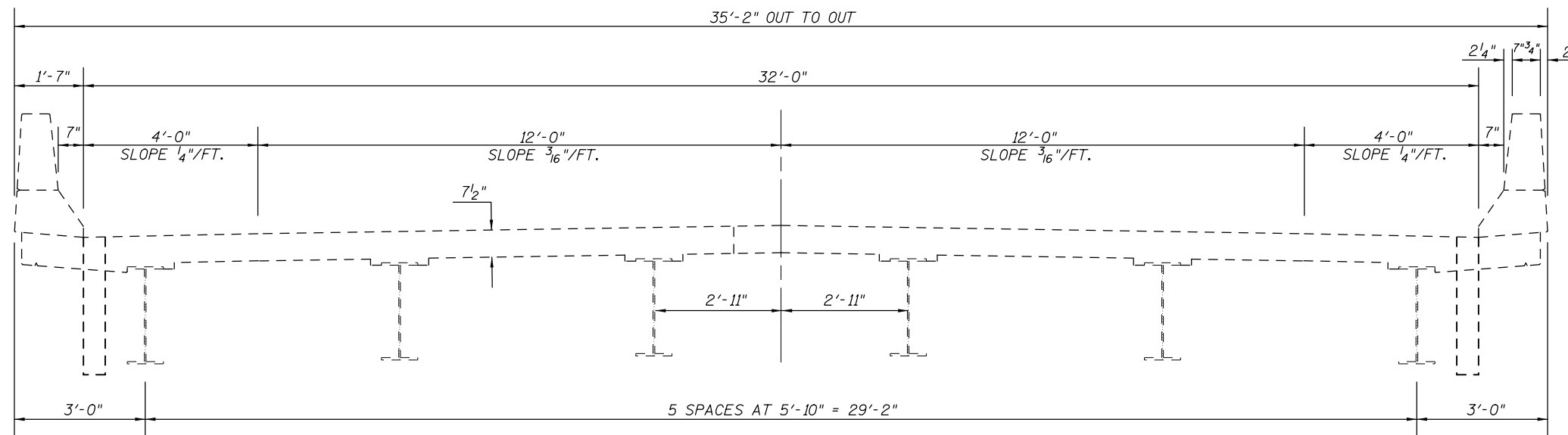
SUMMARY OF QUANTITIES  
S.N. 074-0082

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	10
			CONTRACT NO. 70D46	
			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 2 OF 26 SHEETS STA. TO STA.

# EXISTING DECK CROSS SECTION

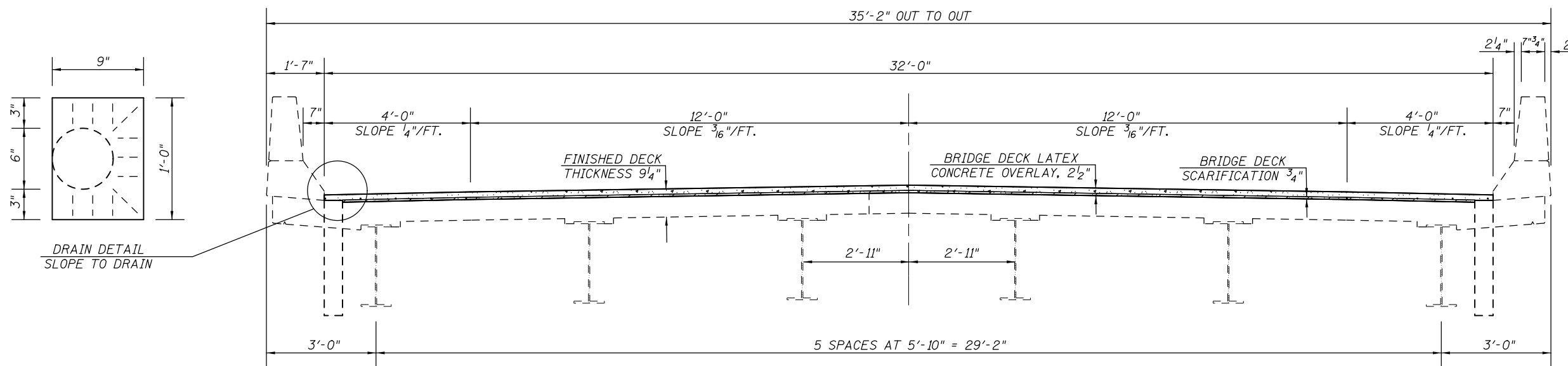
S.N. 074-0082



LOOKING NORTH

# PROPOSED DECK CROSS SECTION

S.N. 074-0082



LOOKING NORTH

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

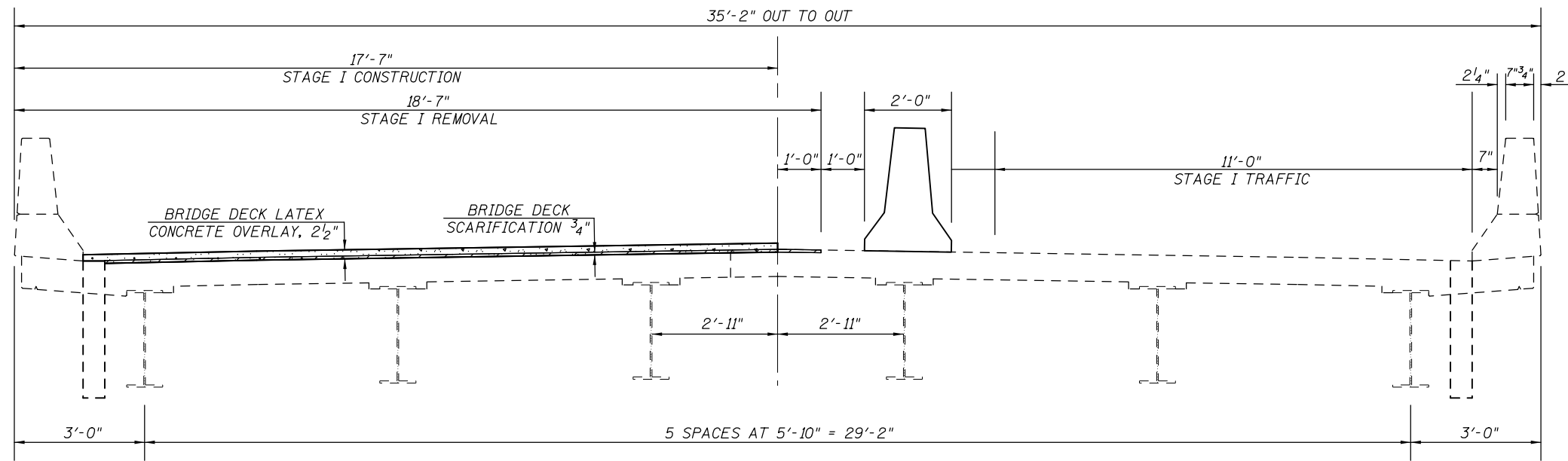
BRIDGE DECK CROSS SECTION  
S.N. 074-0082

SCALE: SHEET 3 OF 26 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	11
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

# STAGE I CONSTRUCTION DETAIL

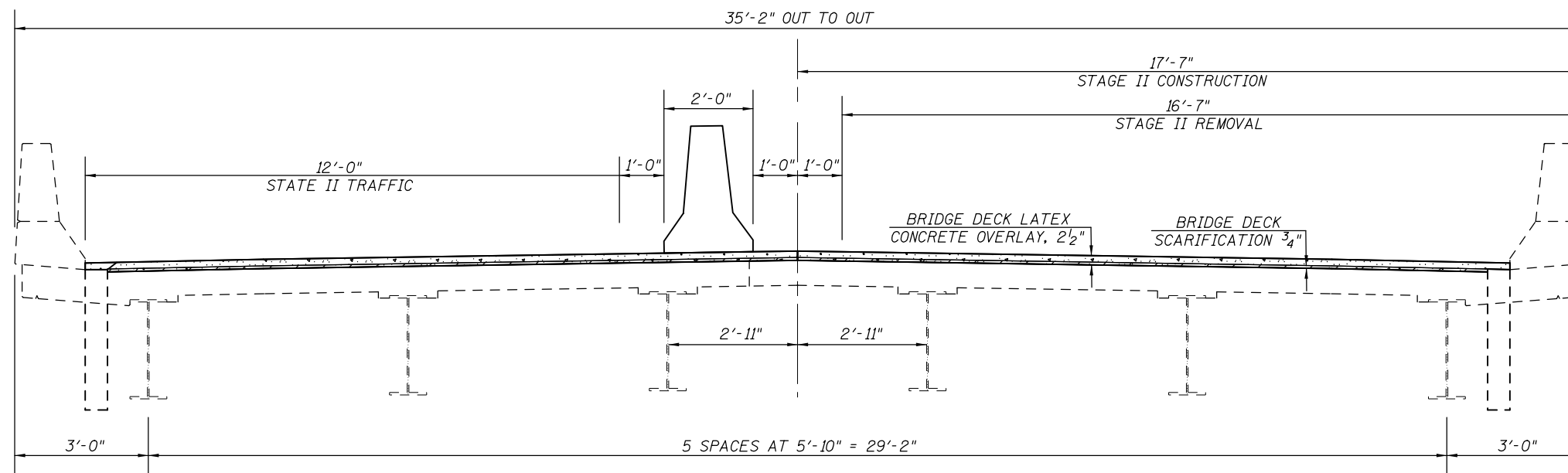
S.N. 074-0082



LOOKING NORTH

# STAGE II CONSTRUCTION DETAIL

S.N. 074-0082



LOOKING NORTH

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS  
S.N. 074-0082

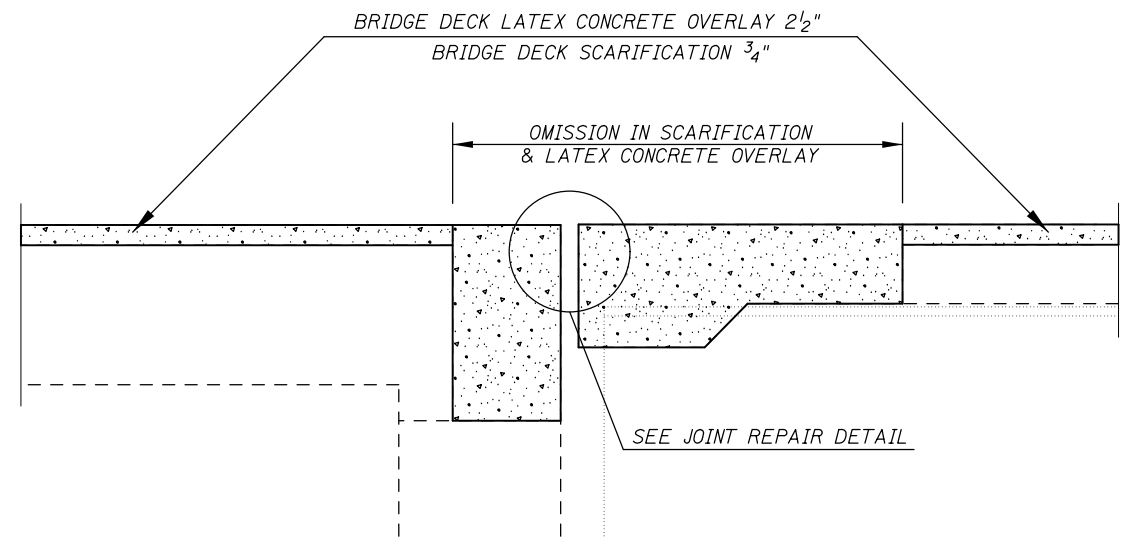
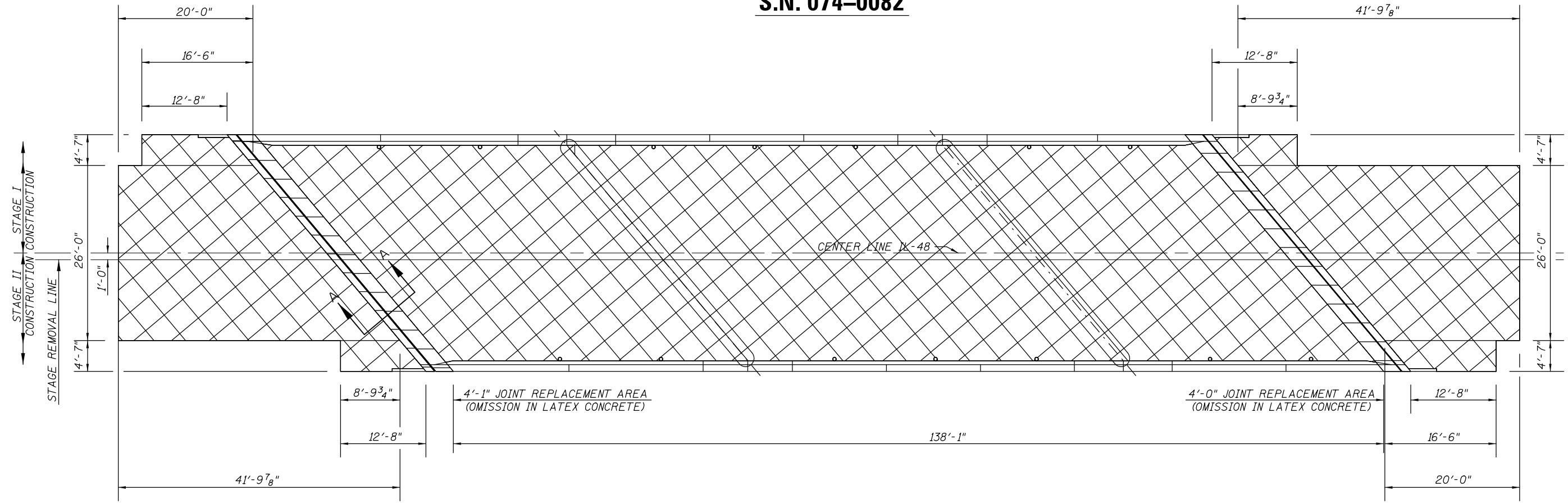
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	12
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



# WEARING SURFACE PLAN

S.N. 074-0082



**SECTION A-A**

**NOTE:**

SYNTYETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK LATEX CONCRETE OVERLAY, SEE SPECIAL PROVISIONS.

- BRIDGE DECK SCARIFICATION 3/4" & BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/2"
- CONCRETE REMOVAL & CONCRETE SUPERSTRUCTURE

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	694.0
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"	SQ YD	694.0
BRIDGE DECK GROOVING	SQ YD	646.0

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE PLAN  
S.N. 074-0082**

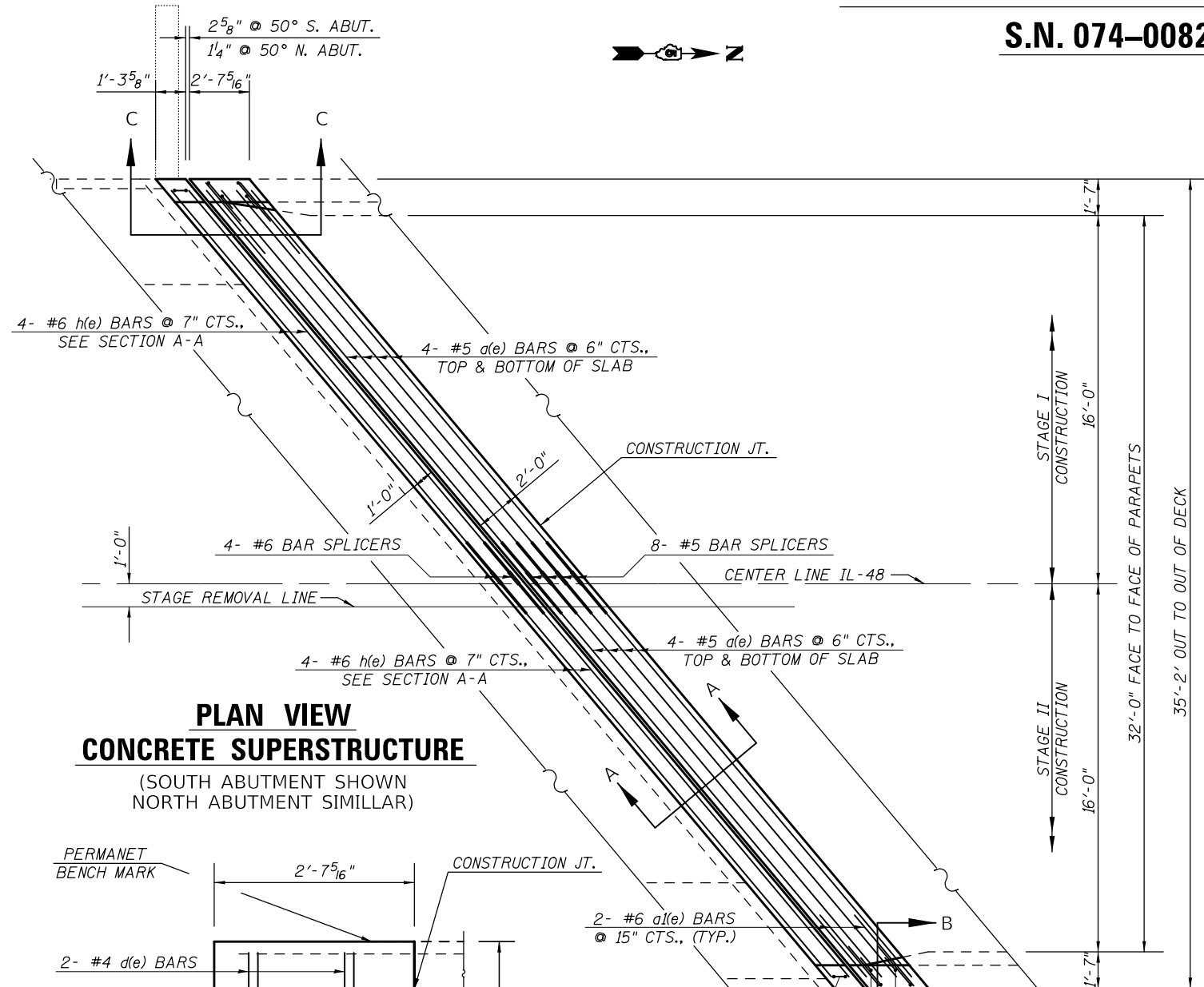
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	13
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

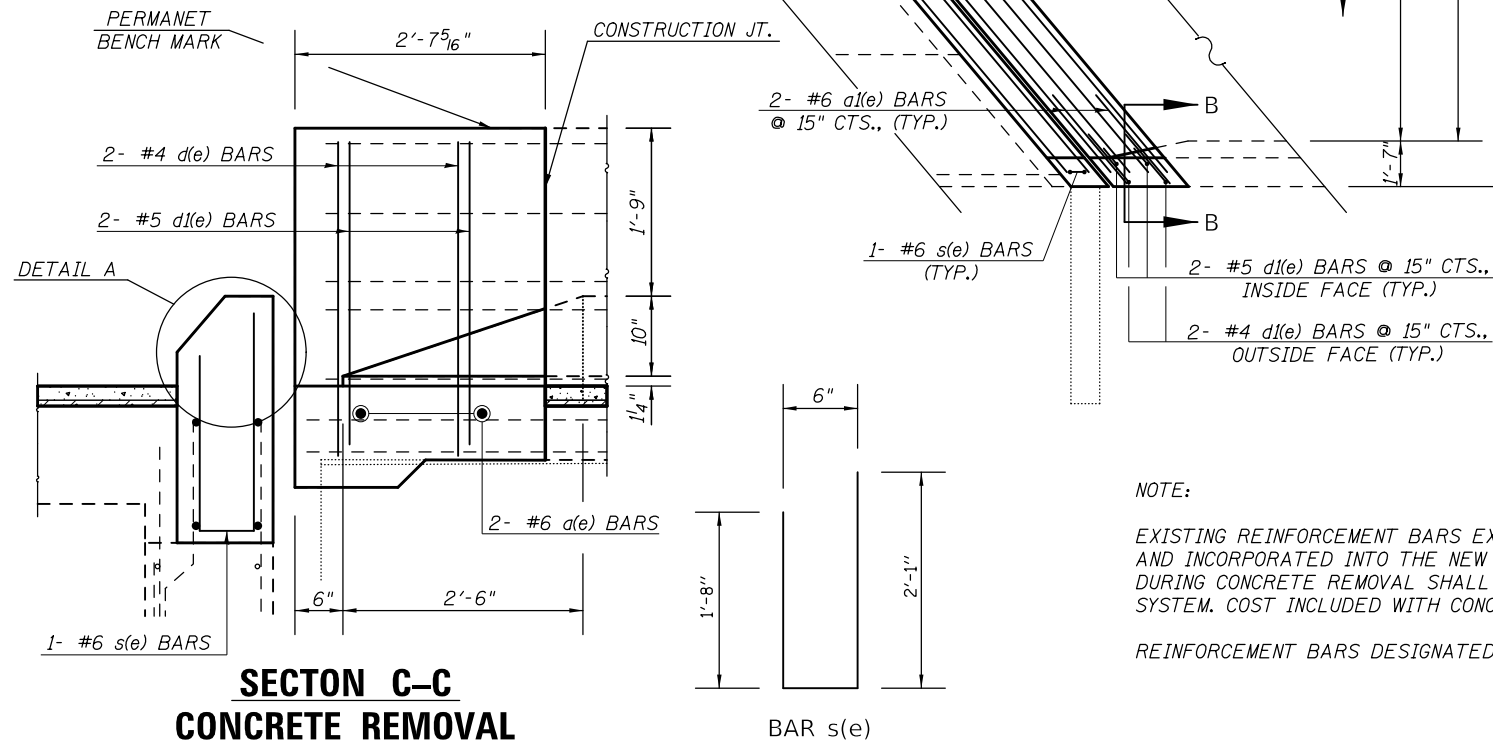


# CONCRETE SUPERSTRUCTURE PLAN

S.N. 074-0082



**PLAN VIEW  
CONCRETE SUPERSTRUCTURE**  
(SOUTH ABUTMENT SHOWN  
NORTH ABUTMENT SIMILAR)



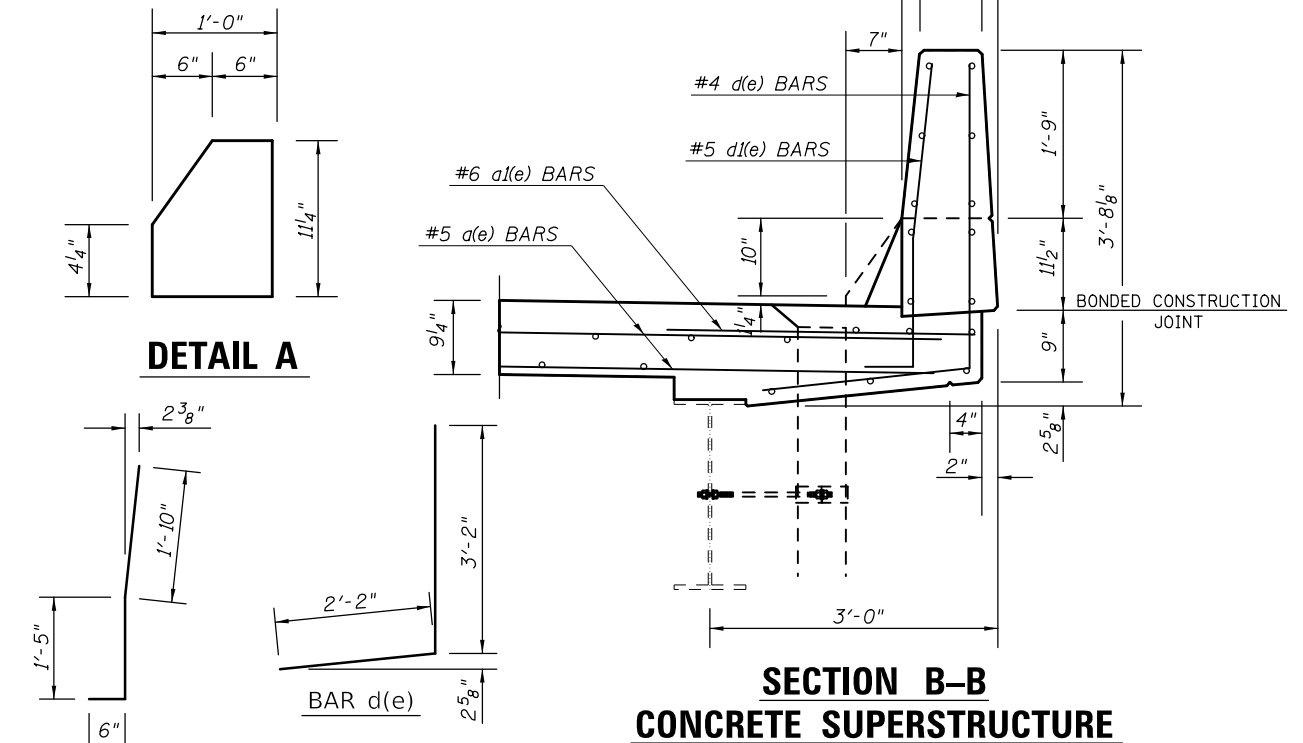
**SECTION C-C  
CONCRETE REMOVAL**

BAR s(e)

**NOTE:**

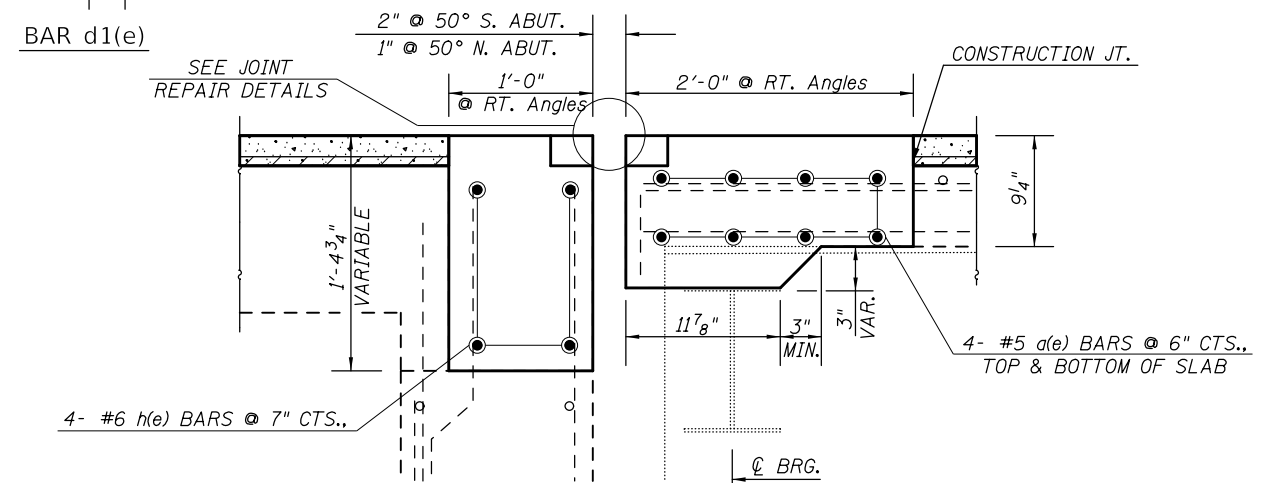
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTEND AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (e) SHALL BE EPOXY COATED.



**DETAIL A**

**SECTION B-B  
CONCRETE SUPERSTRUCTURE**



**SECTION A-A  
CONCRETE SUPERSTRUCTURE**

## BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
d(e)	32	#5	22'-4"	—
d1(e)	8	#6	4'-0"	—
h(e)	16	#6	22'-4"	—
d(e)	8	#4	5'-4"	—
d1(e)	8	#5	3'-9"	—
s(e)	4	#6	4'-3"	—
ITEM	UNIT	TOTAL		
REINFORCEMENT BARS (EPOXY)	POUND	1,420.0		
CONCRETE SUPERSTRUCTURE	POUND	12.6		
BAR SPLICERS	EACH	24.0		

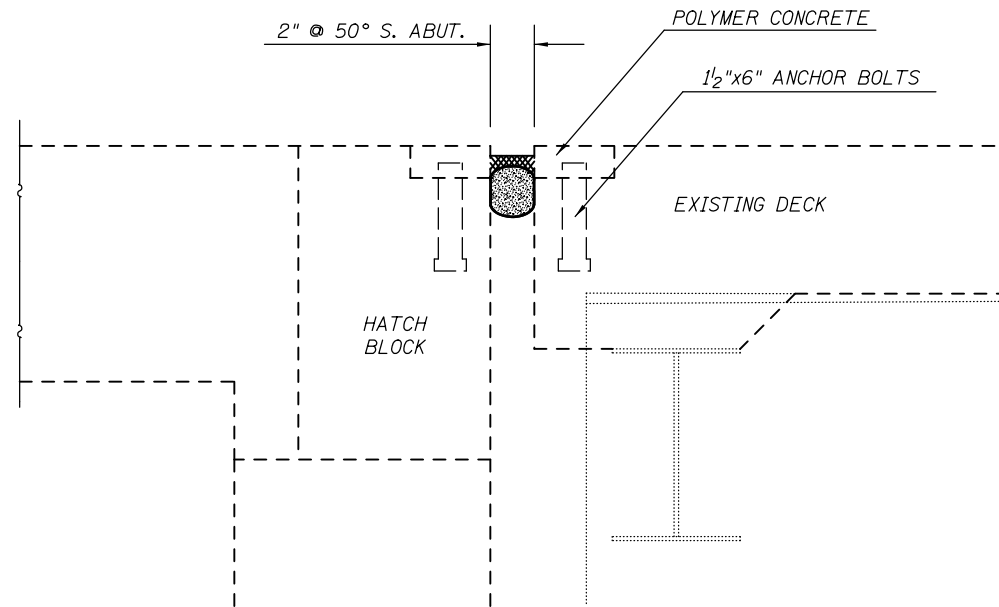
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONCRETE SUPERSTRUCTURE - JOINTS  
S.N. 074-0082

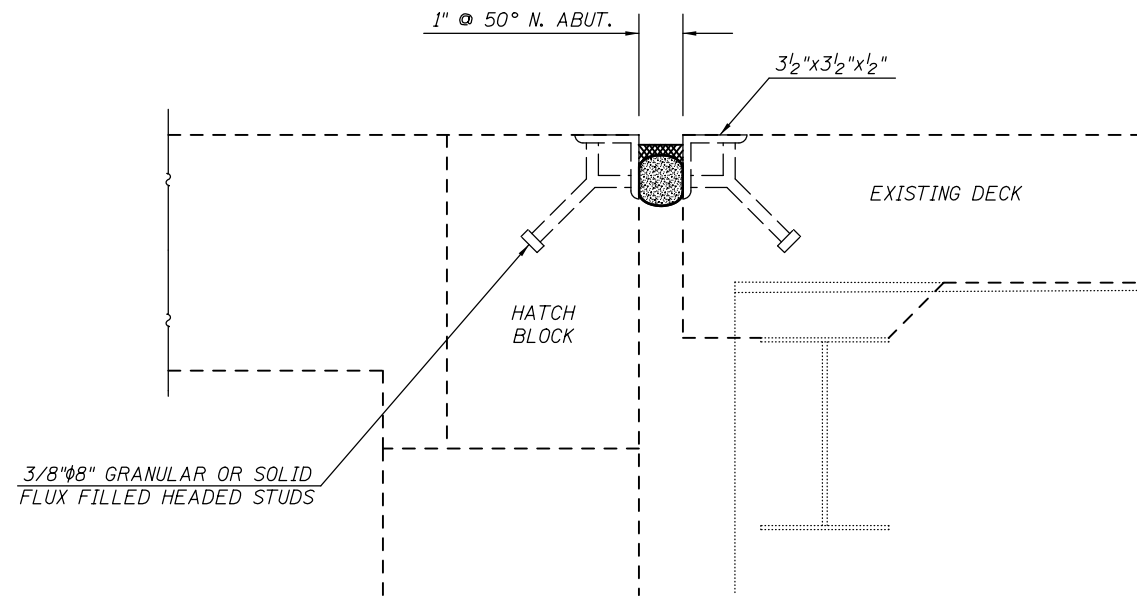
SCALE: SHEET 7 OF 26 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	15
				CONTRACT NO. 70D46
ILLINOIS FED. AID PROJECT				

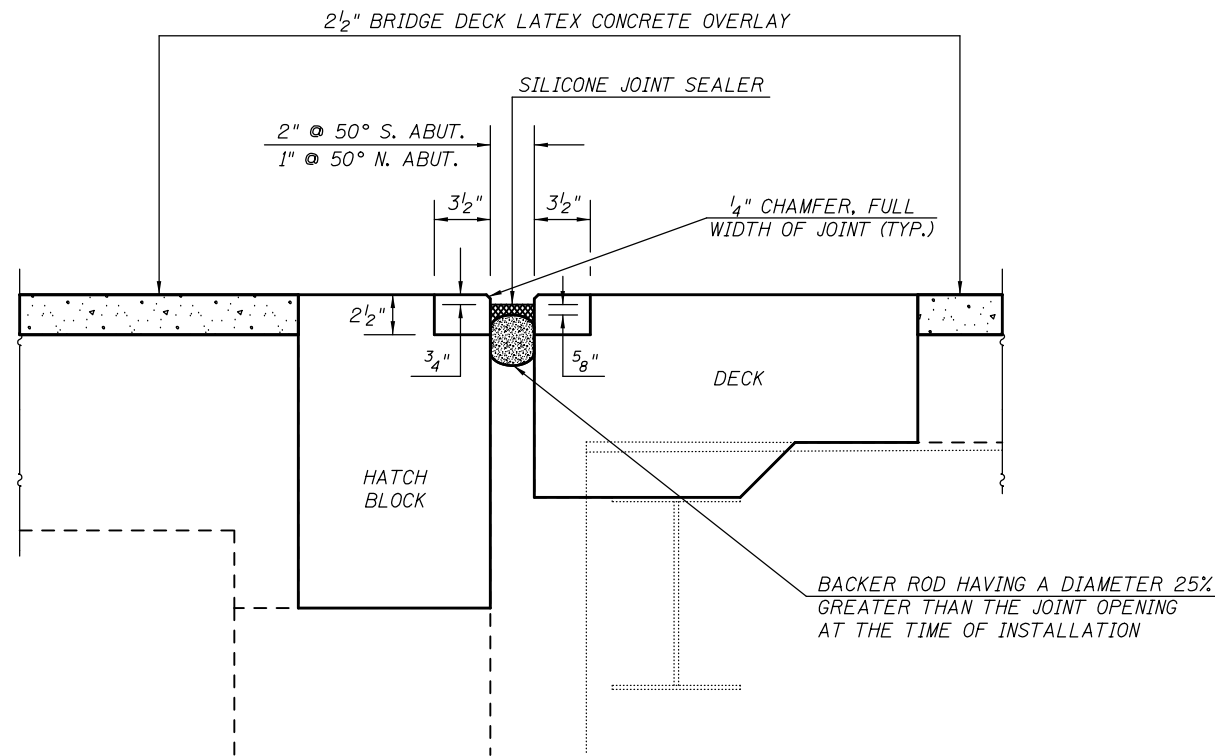
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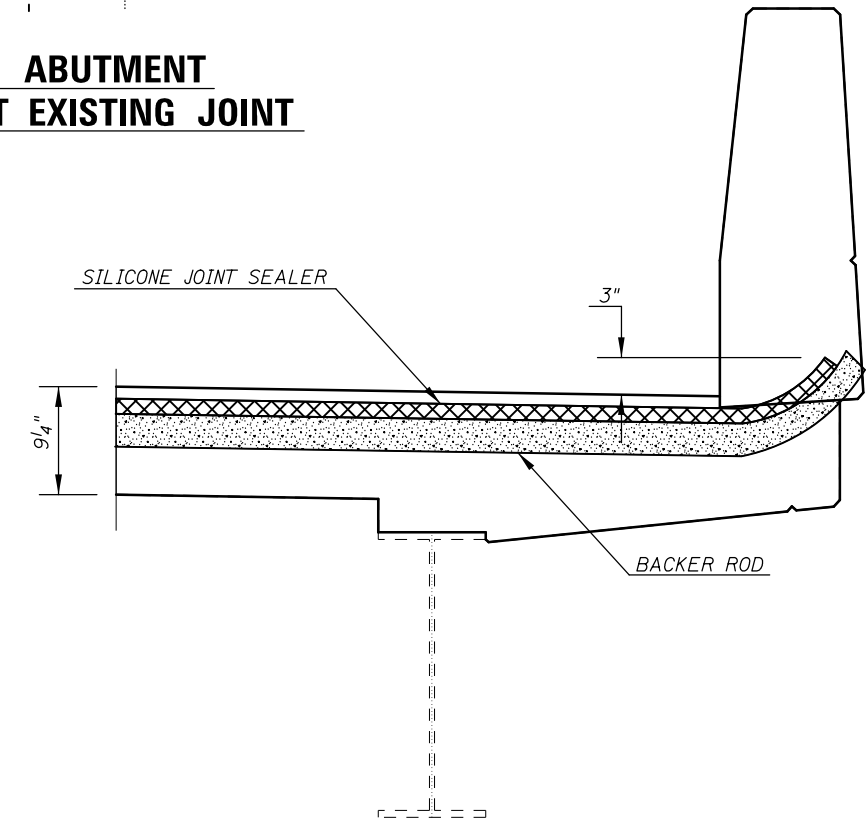
**SOUTH ABUTMENT  
SECTION AT EXISTING JOINT**



**NORTH ABUTMENT  
SECTION AT EXISTING JOINT**



**SECTION AT PROPOSED JOINTS**



**SECTION AT PARAPET**

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
SILICONE JOINT SEALER, 2"	FOOT	46.0
SILICONE JOINT SEALER, 1"	FOOT	46.0
POLYMER CONCRETE	CU FT	10.2

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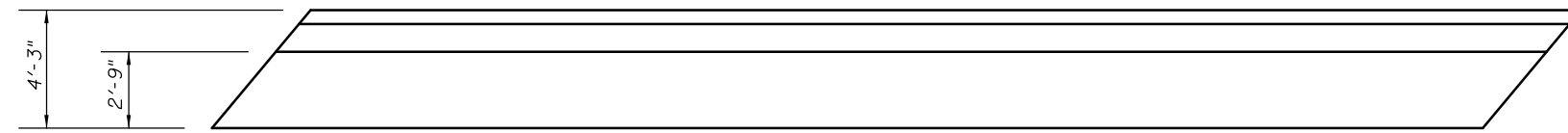
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

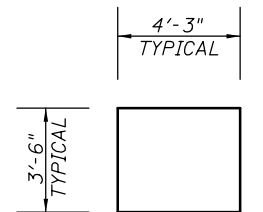
**JOINT REPLACEMENT DETAIL  
S.N. 074-0082**

SCALE: SHEET 8 OF 26 SHEETS STA. TO STA.

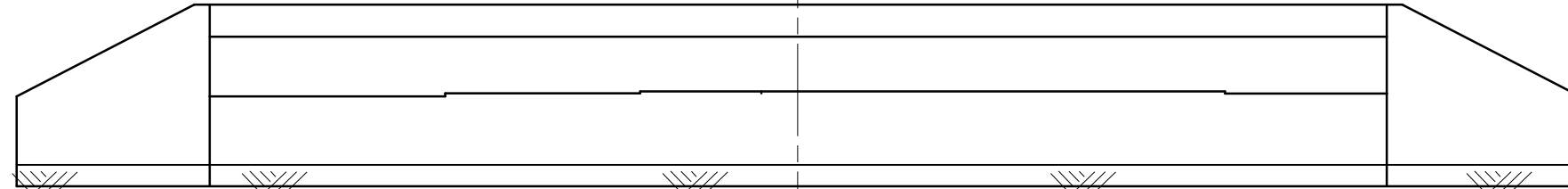
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	16
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



**PLAN - NORTH ABUTMENT**



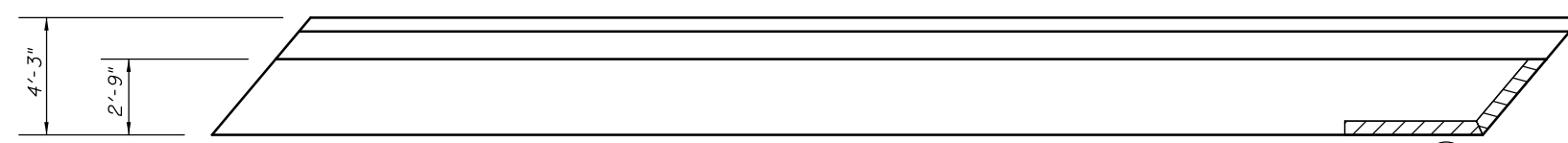
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**ELEVATION - NORTH ABUTMENT**



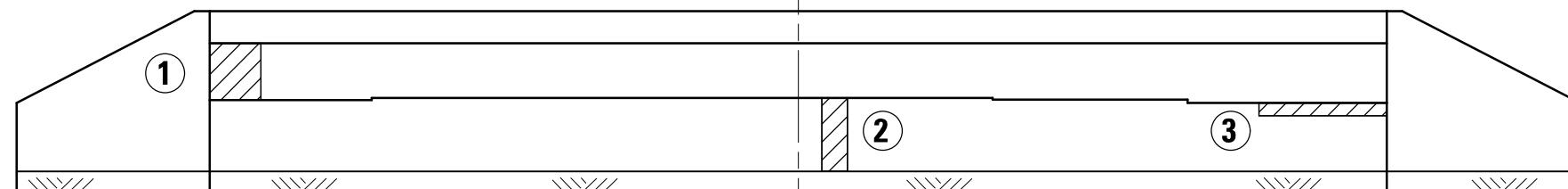
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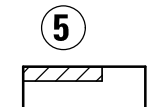
**PLAN - SOUTH ABUTMENT**



**CAP END**



**ELEVATION - SOUTH ABUTMENT**



**CAP END**

**NOTE:**

SEE SPECIAL PROVISIONS FOR  
STRUCTURAL REPAIR OF CONCRETE.



STRUCTURAL REPAIR OF CONCRETE  
DEPTH LESS THAN OR EQUAL TO 5 INCHES

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
STRUCTURE REPAIR OF CONCRETE (DEPTH LESS THAN OR = TO 5")	SQ FT	16.0

PATCH NO.	SIZE	SQ FT
1	2 X 2.2	4.4
2	1 X 3	3.0
3	5 X 0.5	2.5
4	7.8 X 0.5	3.9
5	2.8 X 0.5	1.4
TOTAL = 15.2 SQ FT		

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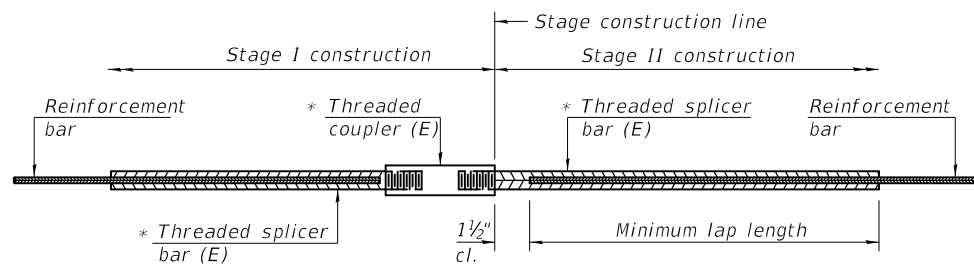
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURE REPAIR OF CONCRETE  
S.N. 074-0082**

SCALE: SHEET 9 OF 26 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	17
CONTRACT NO. 70D46			ILLINOIS FED. AID PROJECT	

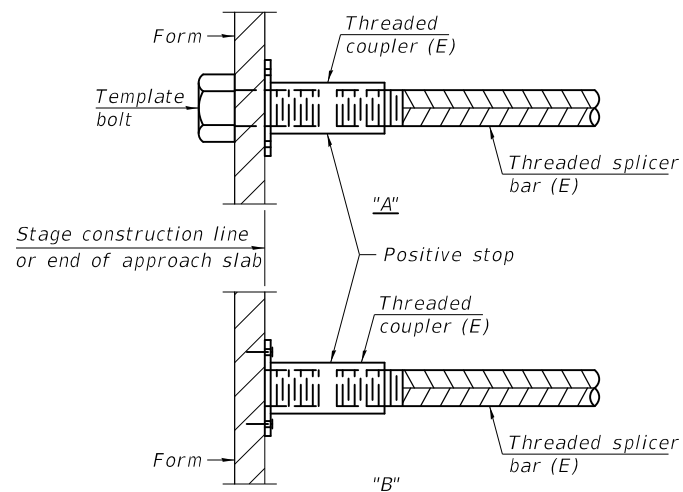


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

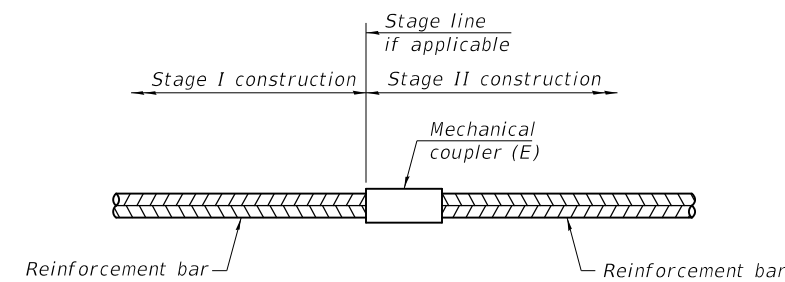
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
HATCH BLOCKS	#6	8.0	4'-0"
DECK ENDS	#5	16.0	3'-6"



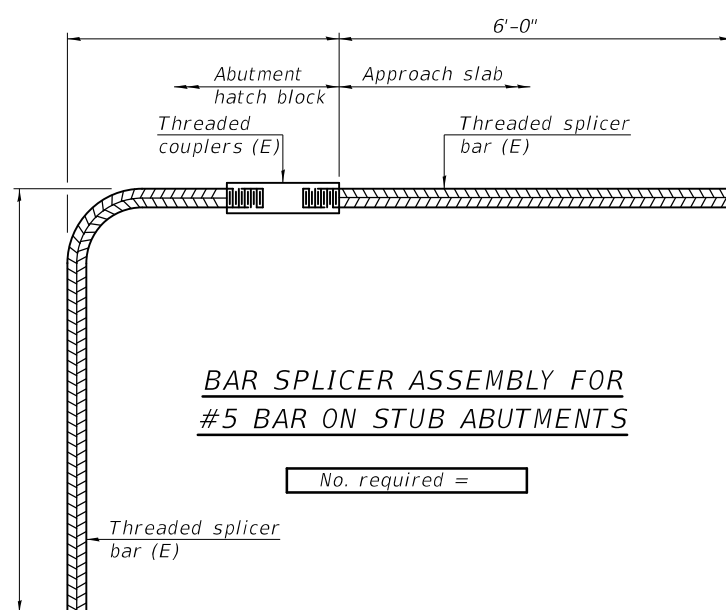
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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USER NAME = shawleres	DESIGNED -	REVISED -
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PLOT DATE = 11/27/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 074-0082**

SCALE: SHEET 10 OF 26 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	18
CONTRACT NO. 70D46			ILLINOIS FED. AID PROJECT	

**NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 50, unless otherwise noted.

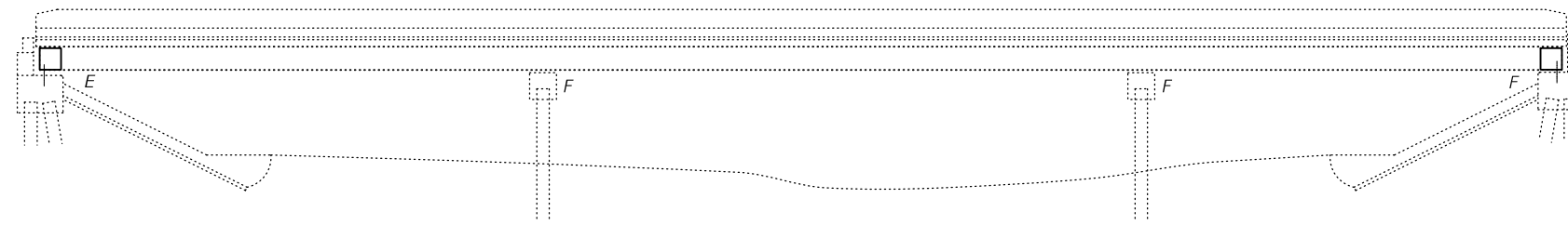
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

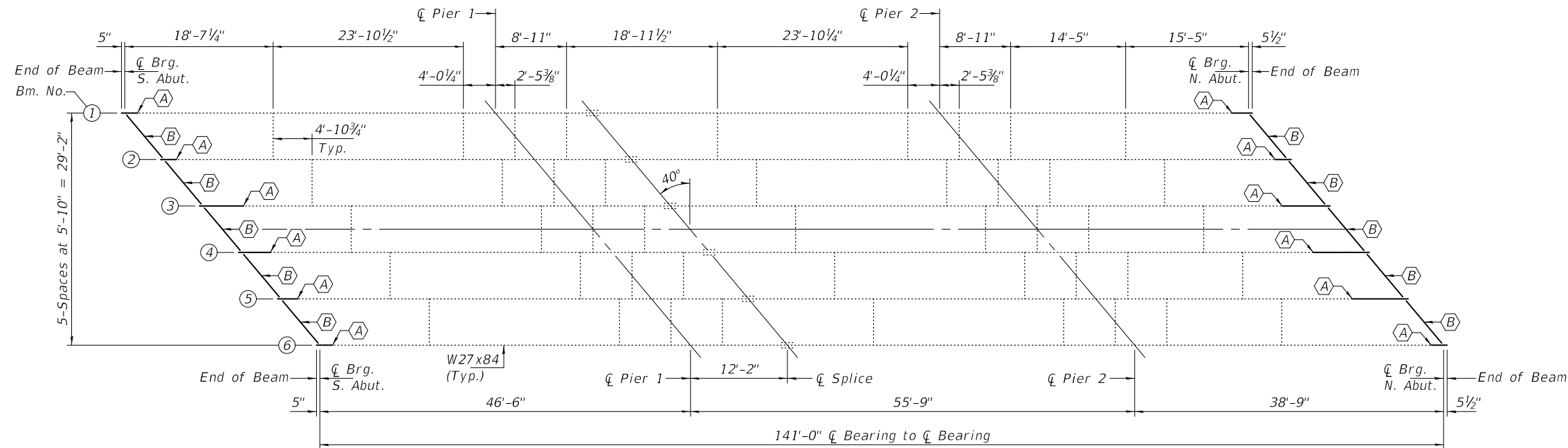
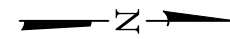
All new Structural Steel and bearing assemblies shall be hot-dip galvanized See Special Provision for "Hot Dip Galvanizing for Structural Steel."

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

Fasteners shall be high strength bolts. Bolts 3/4"Ø, open holes 1 3/16"Ø, unless otherwise noted.



**ELEVATION**



**FRAMING PLAN**

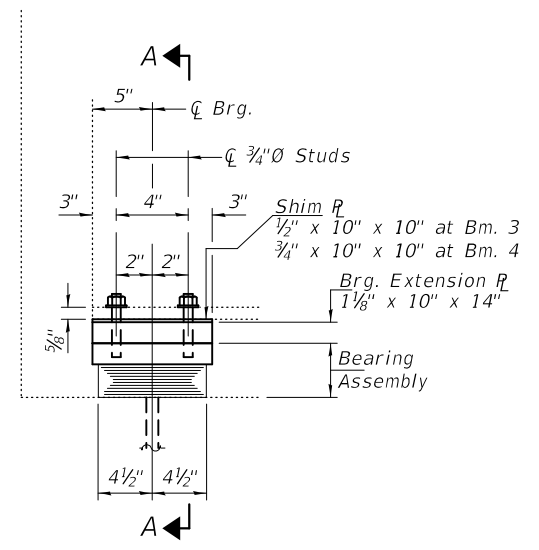
- (A) - Beam End Repair
- (B) - End Diaphragm Removal & Replacement
- (C) - Remove & Replace Existing Fixed Bearings at N. Abut.
- (D) - Remove & Replace Existing Elastomeric Bearings at S. Abut.

**BILL OF MATERIAL**

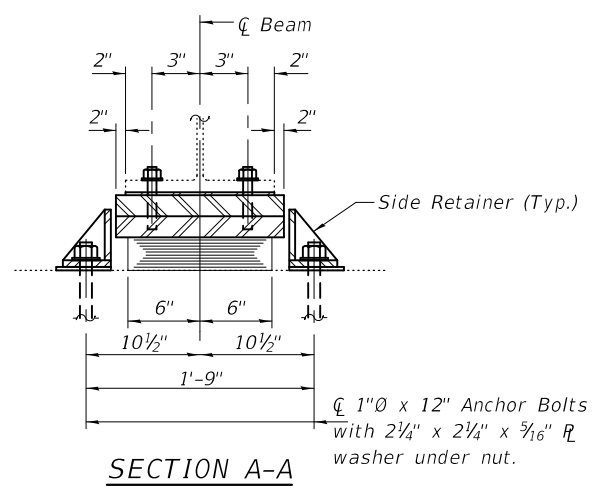
ITEM	UNIT	QUANTITY
Structural Steel Removal	Pound	3660
Furnishing & Erecting Structural Steel	Pound	4610
Structural Steel Repair	Pound	4280
Jack & Remove Existing Bearings	Each	12
Elastomeric Bearing Assembly, Type I	Each	6
Anchor Bolts, 1"Ø	Each	24
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Expires: November 30, 2020

DESIGNED - HSS	EXAMINED - <i>Timothy A. Daulton</i>	DATE - JANUARY 23, 2019	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN &amp; ELEVATION ILLINOIS ROUTE 48 OVER FRIENDS CREEK DITCH SN 074-0082</b>	F.A.P. RTE. 760	SECTION 125BR-1	COUNTY PIATT	TOTAL SHEETS 36	SHEET NO. 19	
CHECKED - JOV	PASSED - <i>Carl R. Meyer</i>	REVISD -			CONTRACT NO. 70D46					
DRAWN - STEFFEN	ENGINEER OF BRIDGES AND STRUCTURES	REVISD -			ILLINOIS FED. AID PROJECT					
CHECKED - HSS JOV					SHEET 11 OF 26 SHEETS					



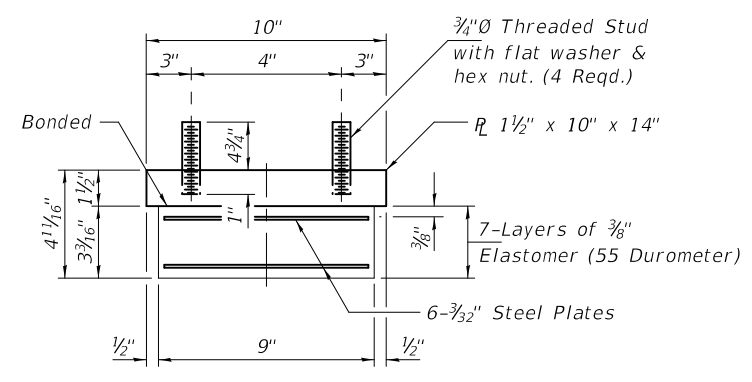
**ELEVATION AT SOUTH ABUTMENT**



**SECTION A-A**

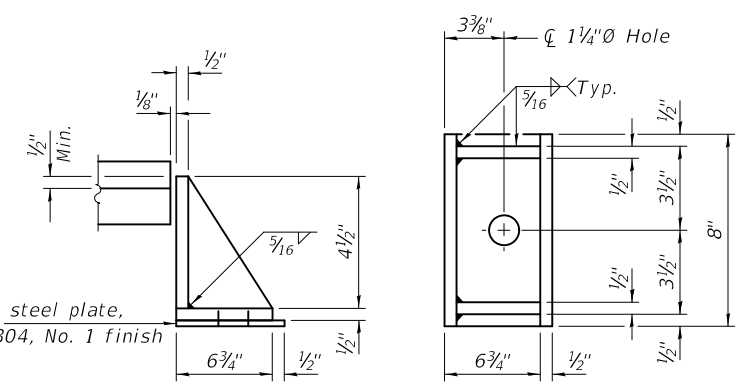
**TYPE I ELASTOMERIC EXP. BRG.**

Strengthening R's not shown for clarity.  
For Details see sheets 14 & 15 of 26.



**BEARING ASSEMBLY**

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



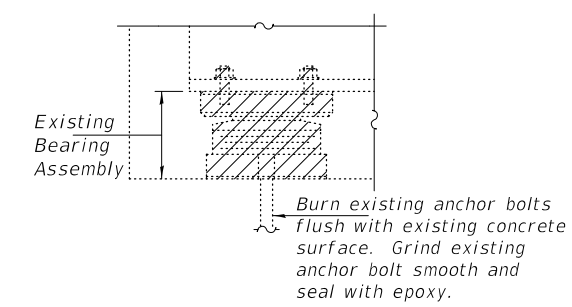
**SIDE RETAINER**

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

**BEAM REACTIONS**

R <sub>∅</sub>	(K)	16.3
R <sub>L</sub>	(K)	29.0
Imp.	(K)	8.4
R (Total)	(K)	53.7

Notes:  
Diaphragm removal and installation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.  
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).  
Min. jack capacity = 27 Tons.  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



**EXISTING BEARING REMOVAL DETAIL**

Cost included with Jack and Remove Existing Bearings.

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	310
Anchor Bolts, 1"∅	Each	12



**BEAM REACTIONS**

R <sub>D</sub>	(K)	12.8
R <sub>L</sub>	(K)	27.5
Imp.	(K)	8.3
R (Total)	(K)	48.6

**Notes:**

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

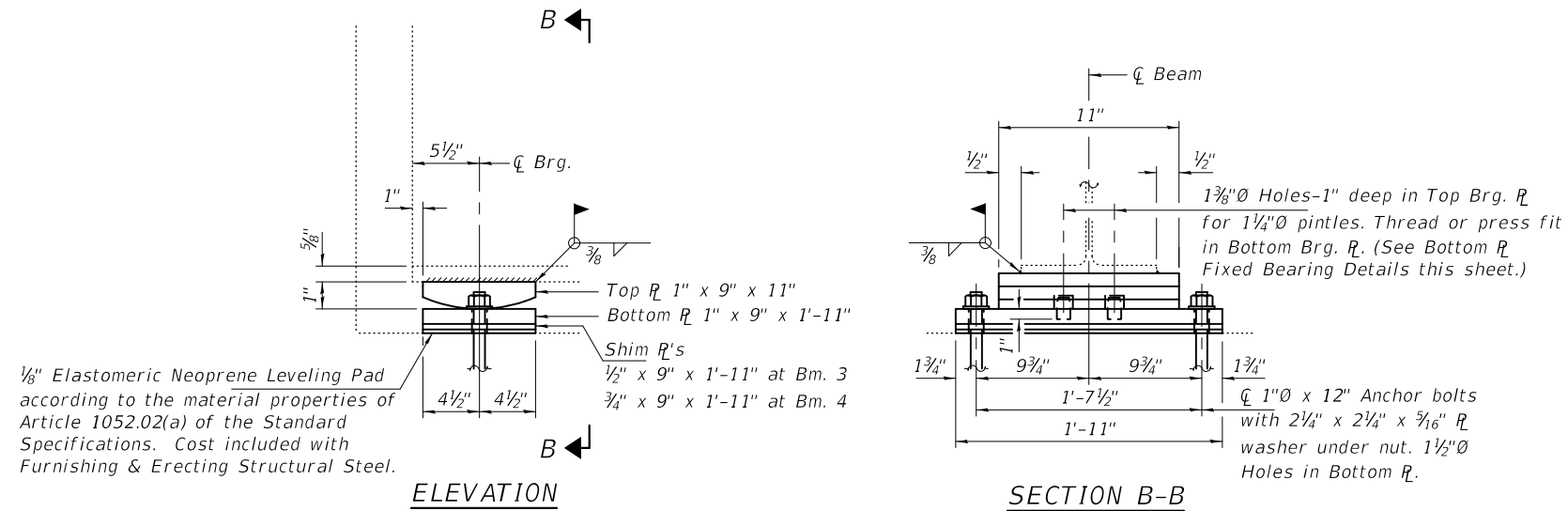
New shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 24 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F<sub>y</sub>=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

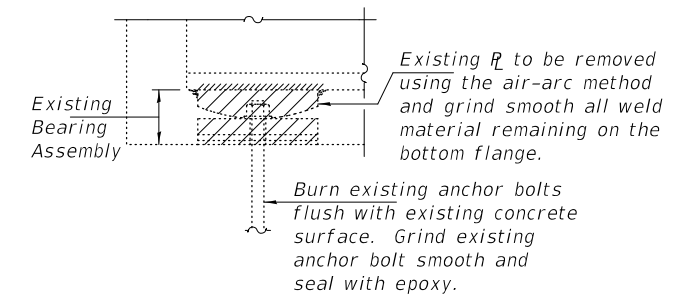
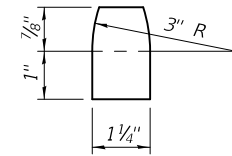
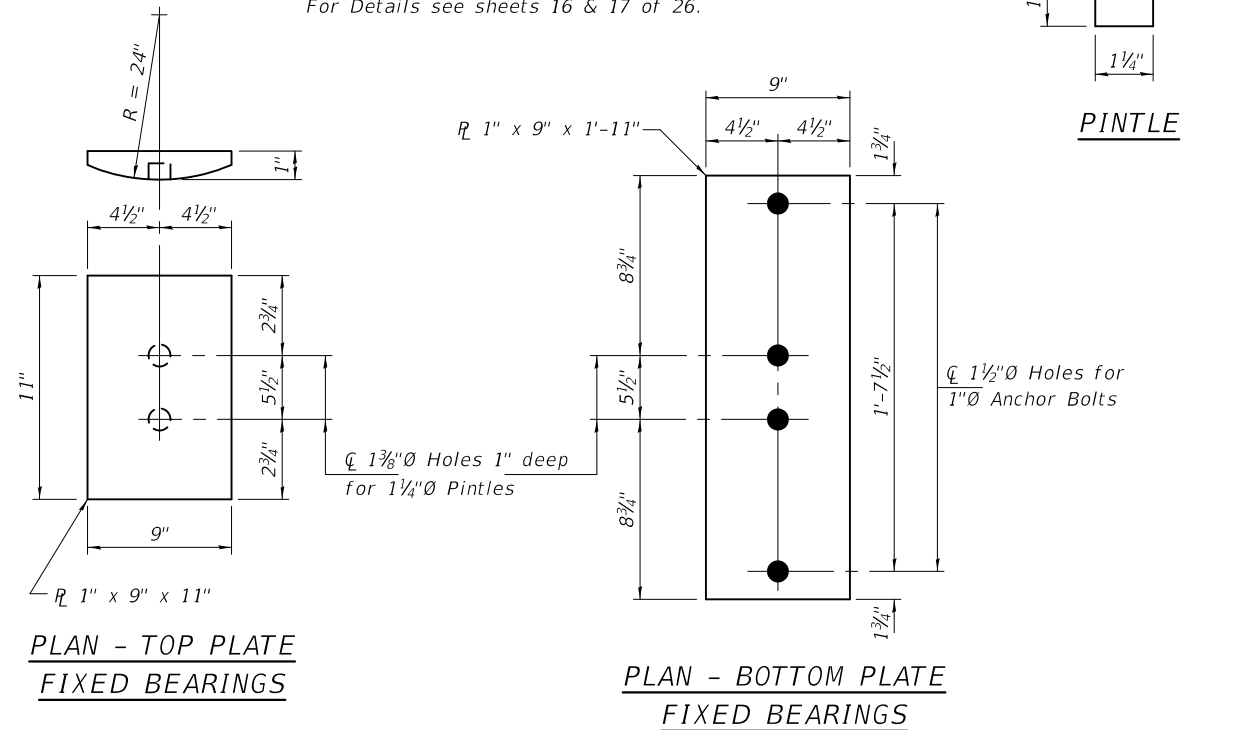
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.



1/8" Elastomeric Neoprene Leveling Pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Furnishing & Erecting Structural Steel.

**FIXED BEARINGS AT NORTH ABUTMENT**

Strengthening PL's not shown for clarity. For Details see sheets 16 & 17 of 26.



**EXISTING BEARING REMOVAL DETAIL**

Cost included with Jack and Remove Existing Bearings.

**BILL OF MATERIAL**

Item	Unit	Total
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	610
Anchor Bolts, 1"Ø	Each	12

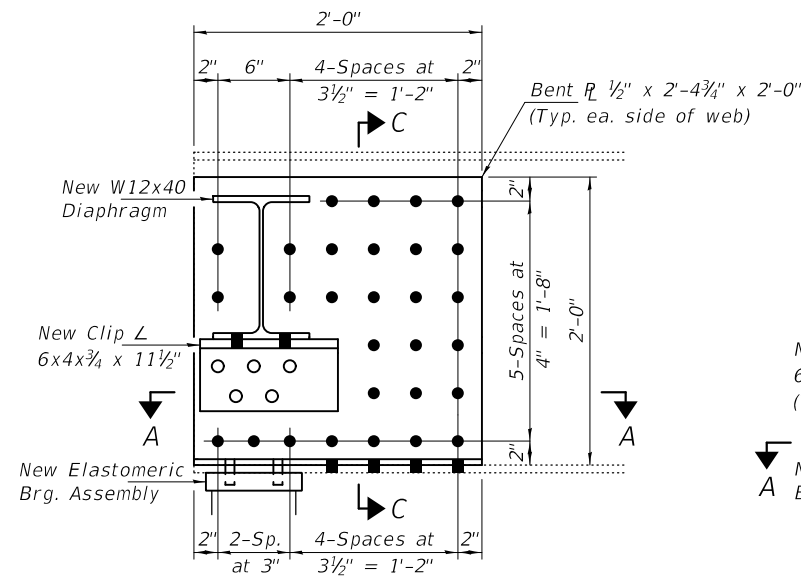
DESIGNED - HSS	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 23, 2019
CHECKED - JOV	PASSED - <i>Carl Rieger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - HSS JOV		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

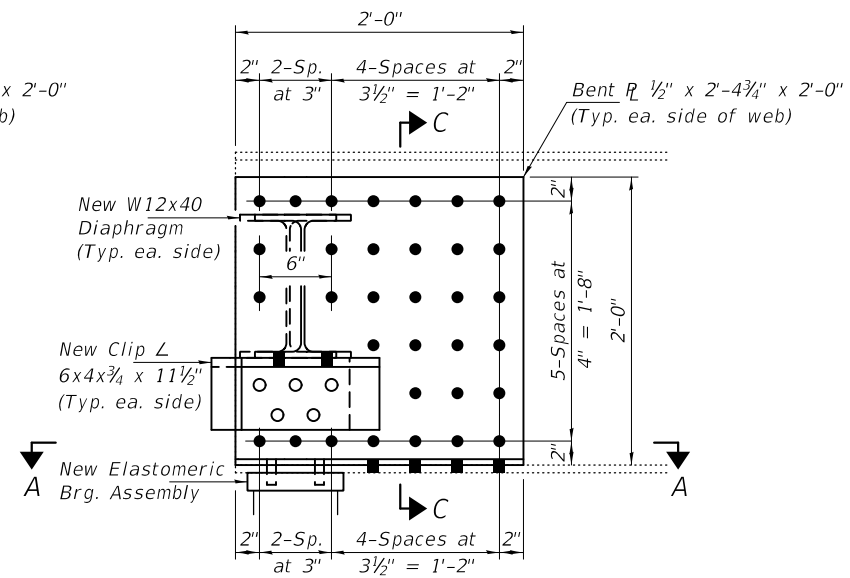
BEARING REPLACEMENT DETAILS AT N. ABUT.  
SN 074-0082

SHEET 13 OF 26 SHEETS

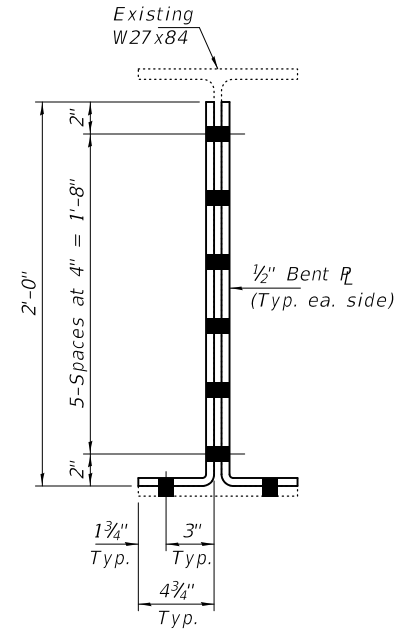
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	21
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



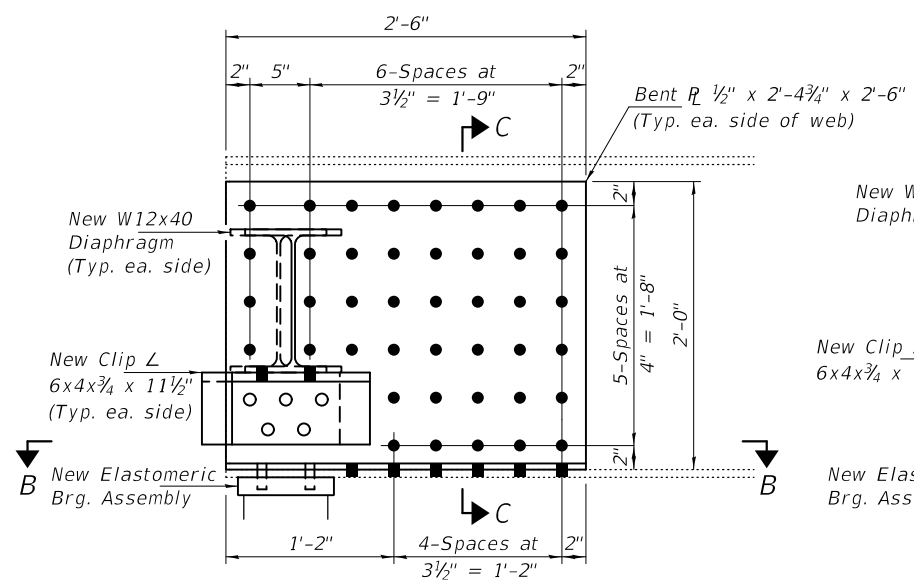
REPAIR DETAIL FOR BEAM 1 AT SOUTH ABUT.  
(Looking West)



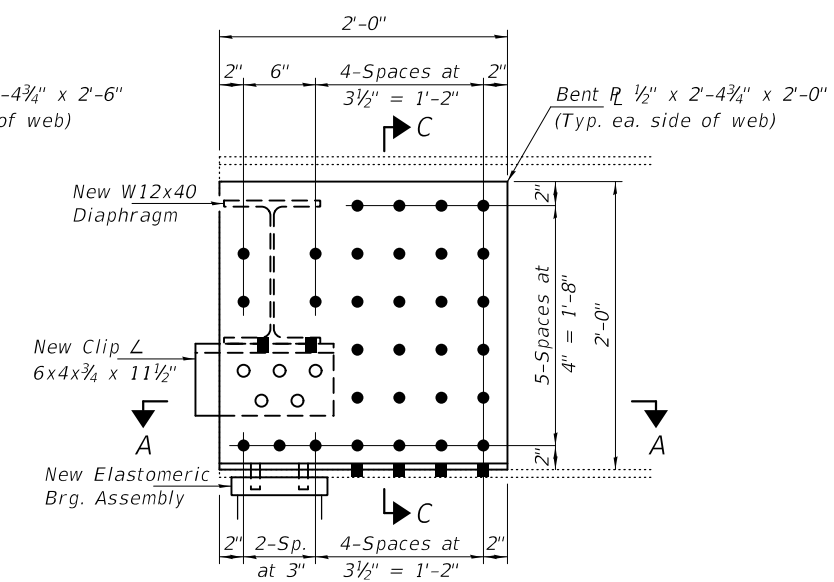
REPAIR DETAIL FOR BEAM 2 AT SOUTH ABUT.  
(Looking West)



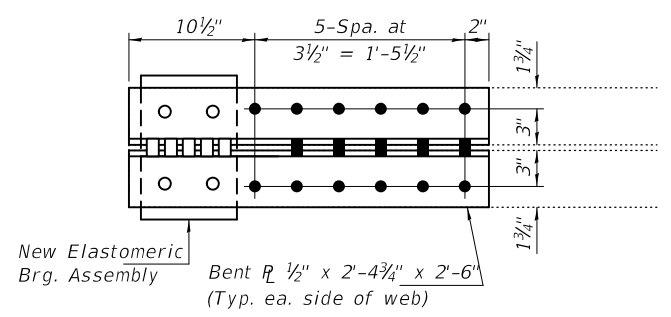
SECTION C-C



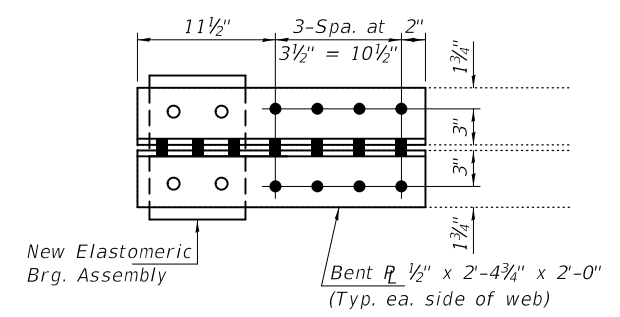
REPAIR DETAIL FOR BEAM 5 AT SOUTH ABUT.  
(Looking West)



REPAIR DETAIL FOR BEAM 6 AT SOUTH ABUT.  
(Looking West)



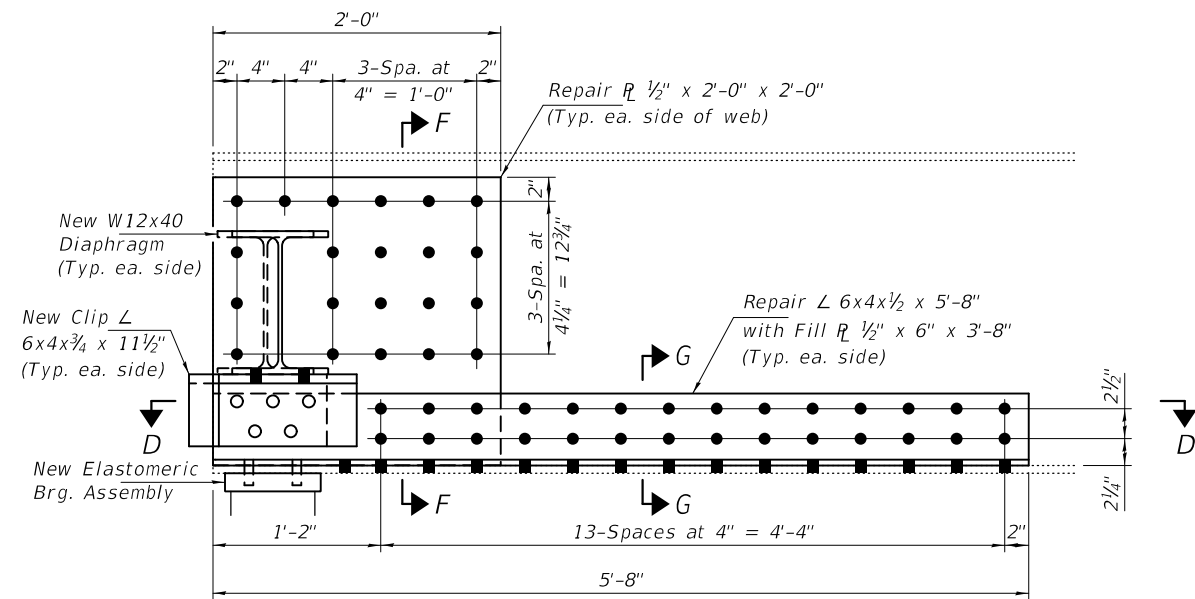
SECTION B-B



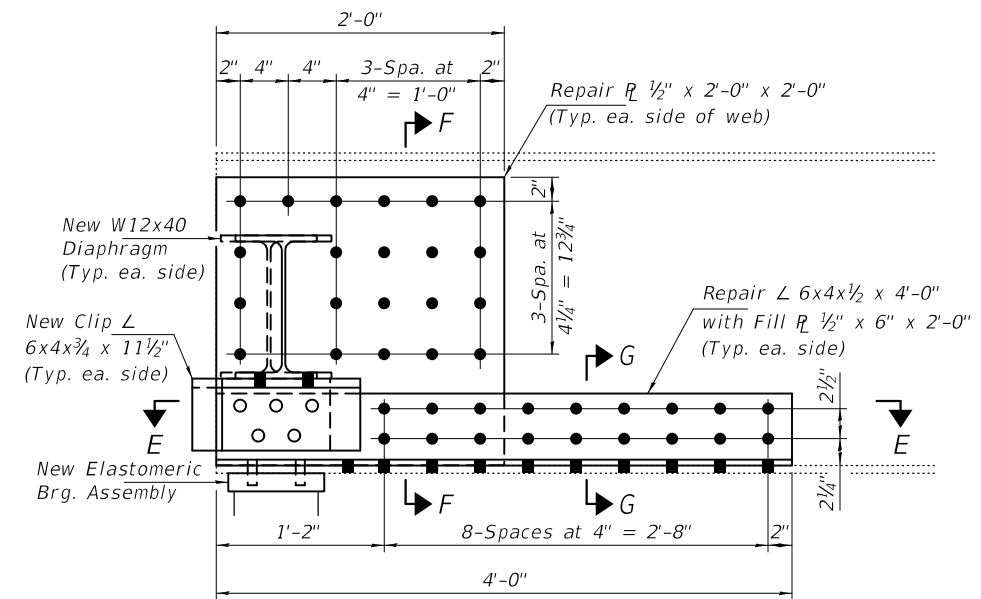
SECTION A-A

Note:  
All web repairs on this sheet included  
with Structural Steel Repairs.

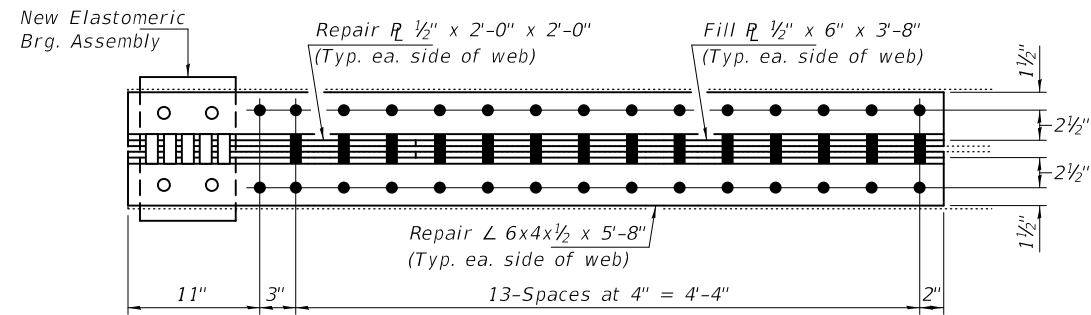
DESIGNED - HSS	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 23, 2019	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BEAM END REPAIR DETAILS AT SOUTH ABUTMENT SN 074-0082</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - JOV	PASSED - <i>Carl R. Roper</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			760	125BR-1	PIATT	36	22	
DRAWN - STEFFEN		REVISED -			CONTRACT NO. 70D46					
CHECKED - HSS JOV					SHEET 14 OF 26 SHEETS					
				ILLINOIS FED. AID PROJECT						



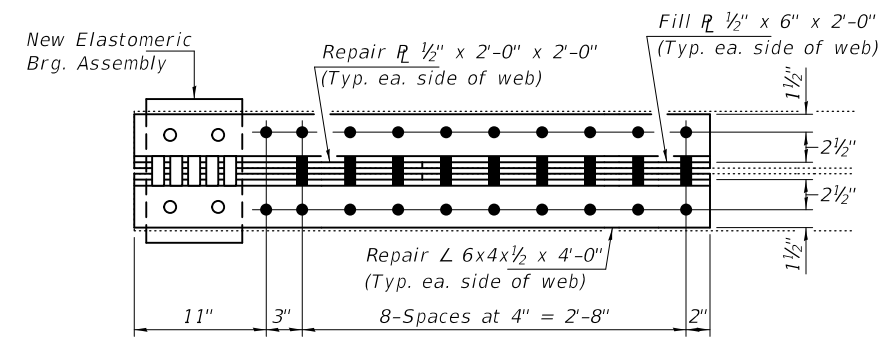
REPAIR DETAIL FOR BEAM 3 AT SOUTH ABUT.  
(Looking West)



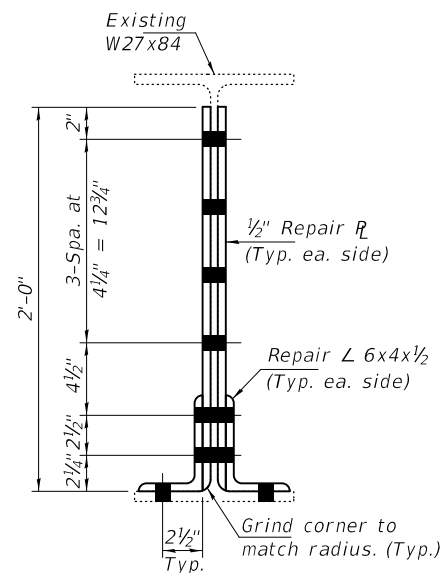
REPAIR DETAIL FOR BEAM 4 AT SOUTH ABUT.  
(Looking West)



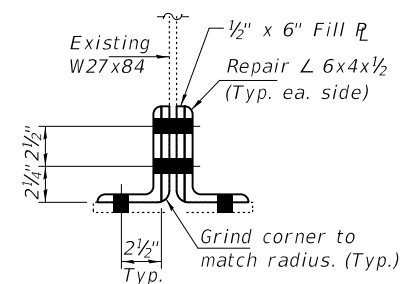
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G

Note:  
All web repairs on this sheet included with Structural Steel Repairs.

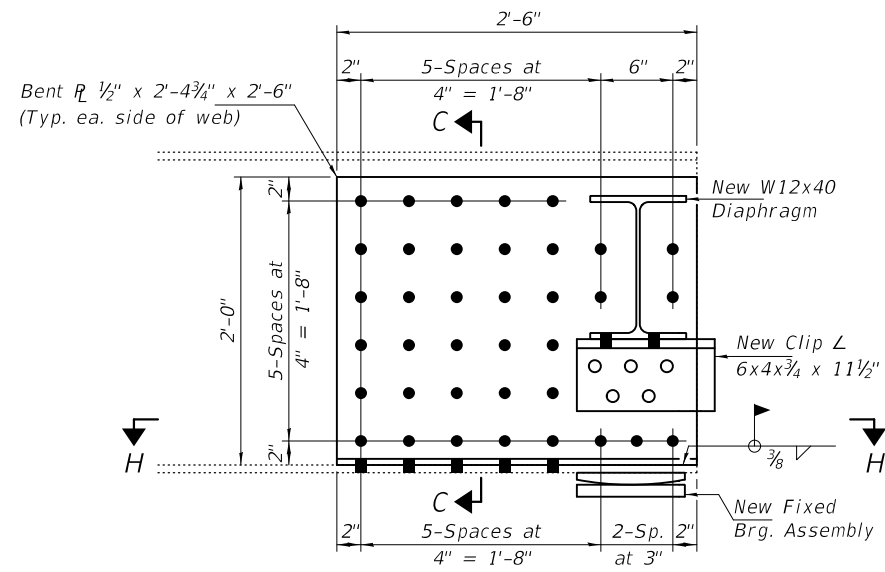
DESIGNED - HSS	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 23, 2019
CHECKED - JOV	PASSED - <i>Carl Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - HSS JOV		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

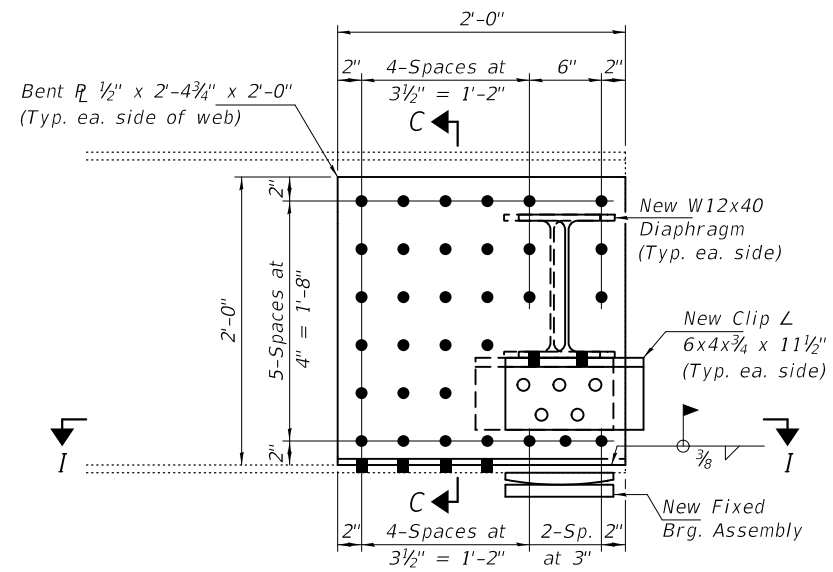
BEAM END REPAIR DETAILS AT SOUTH ABUTMENT  
SN 074-0082

SHEET 15 OF 26 SHEETS

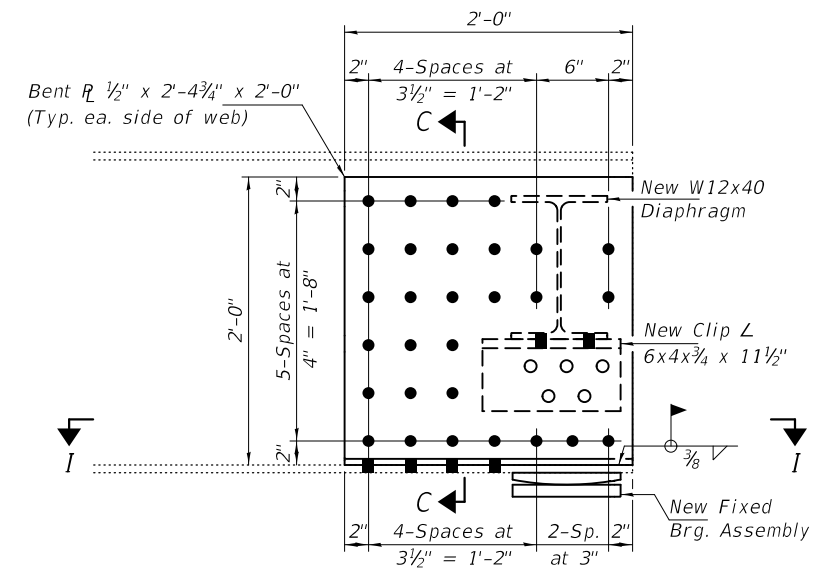
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	23
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



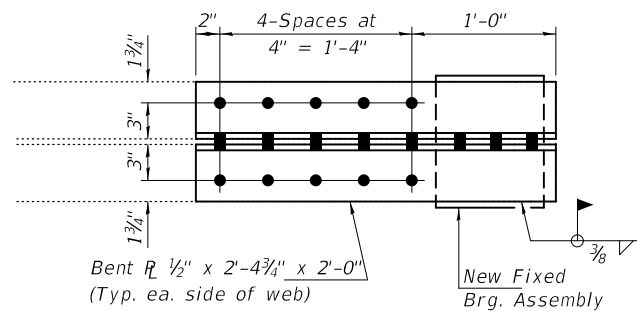
REPAIR DETAIL FOR BEAM 1 AT NORTH ABUT.  
(Looking West)



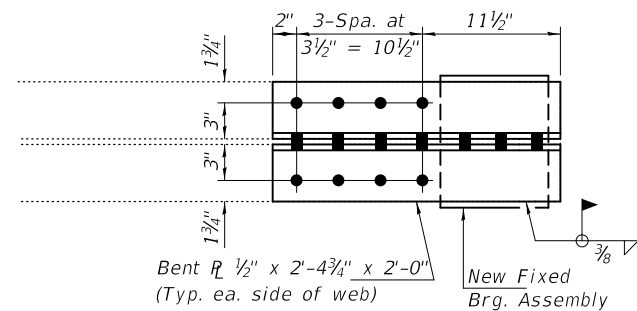
REPAIR DETAIL FOR BEAM 2 AT NORTH ABUT.  
(Looking West)



REPAIR DETAIL FOR BEAM 6 AT NORTH ABUT.  
(Looking West)



SECTION H-H



SECTION I-I

Notes:  
For Section C-C see sheet 14 of 26.  
All web repairs on this sheet included  
with Structural Steel Repairs.

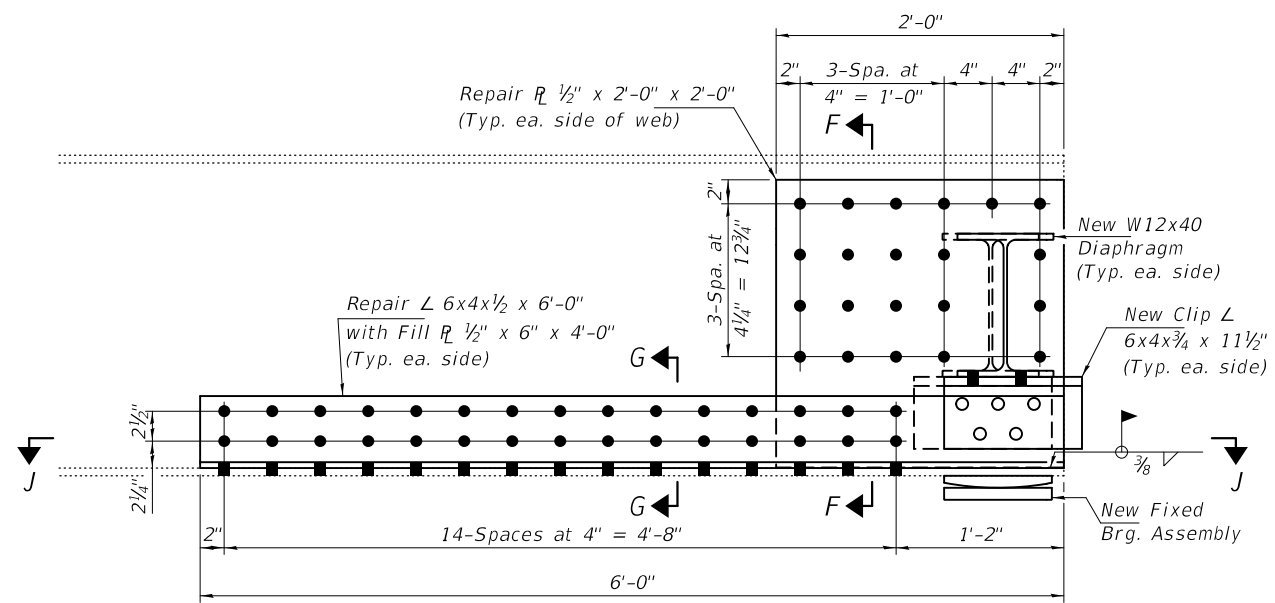
DESIGNED - HSS	EXAMINED	DATE - JANUARY 23, 2019
CHECKED - JOV	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED	REVISED -
CHECKED - HSS JOV	<i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

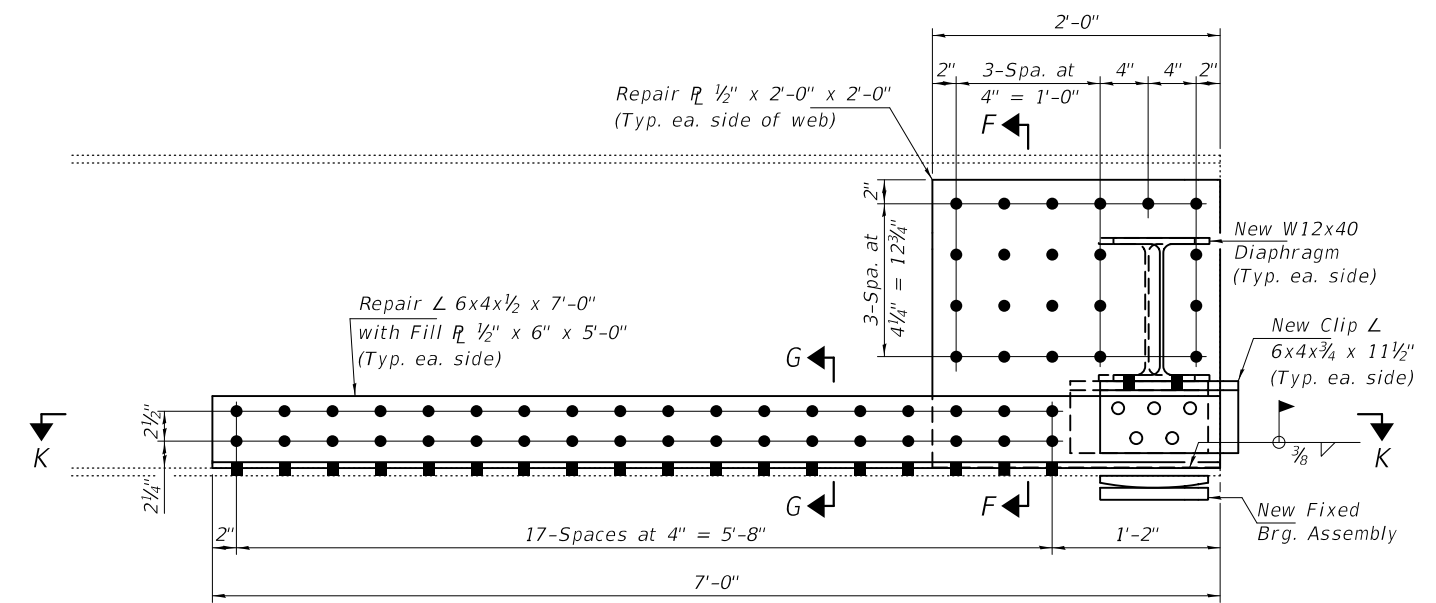
BEAM END REPAIR DETAILS AT NORTH ABUTMENT  
SN 074-0082

SHEET 16 OF 26 SHEETS

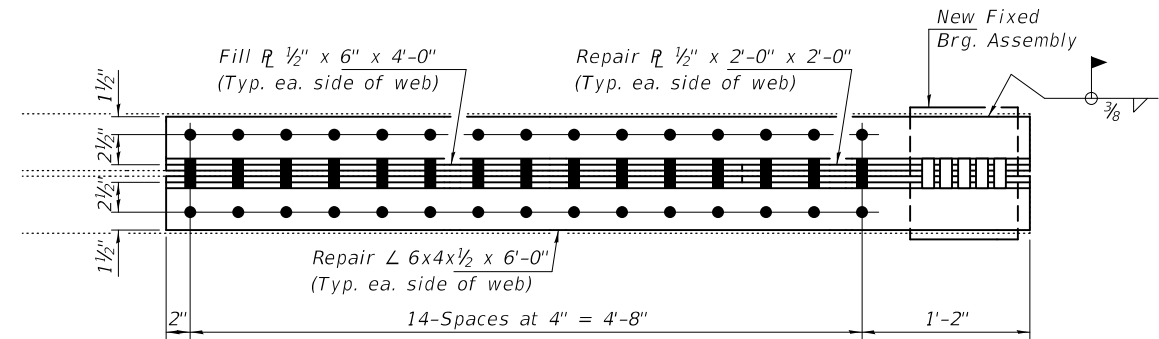
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	24
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



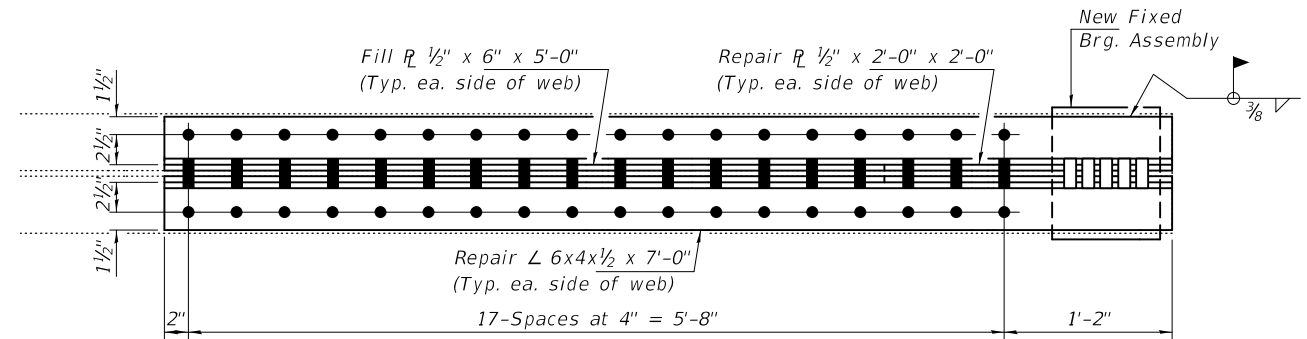
**REPAIR DETAIL FOR BEAM 3 AT NORTH ABUT.**  
(Looking West)



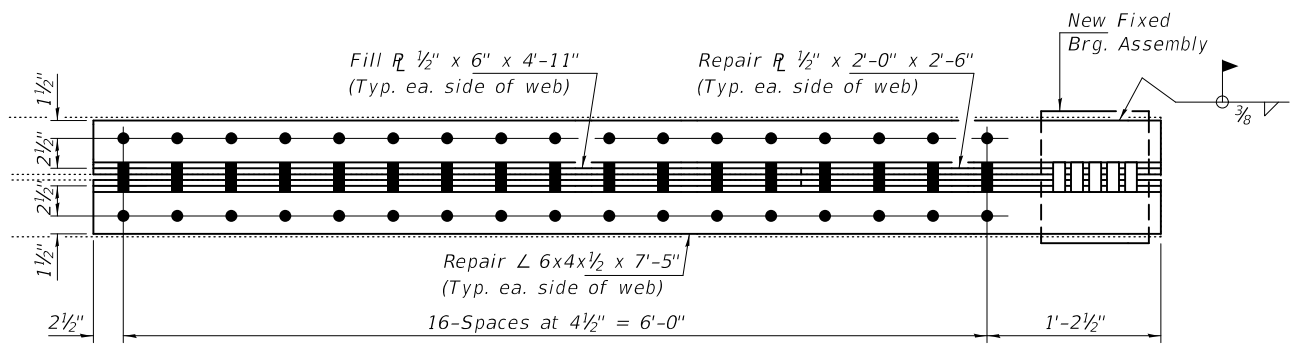
**REPAIR DETAIL FOR BEAM 4 AT NORTH ABUT.**  
(Looking West)



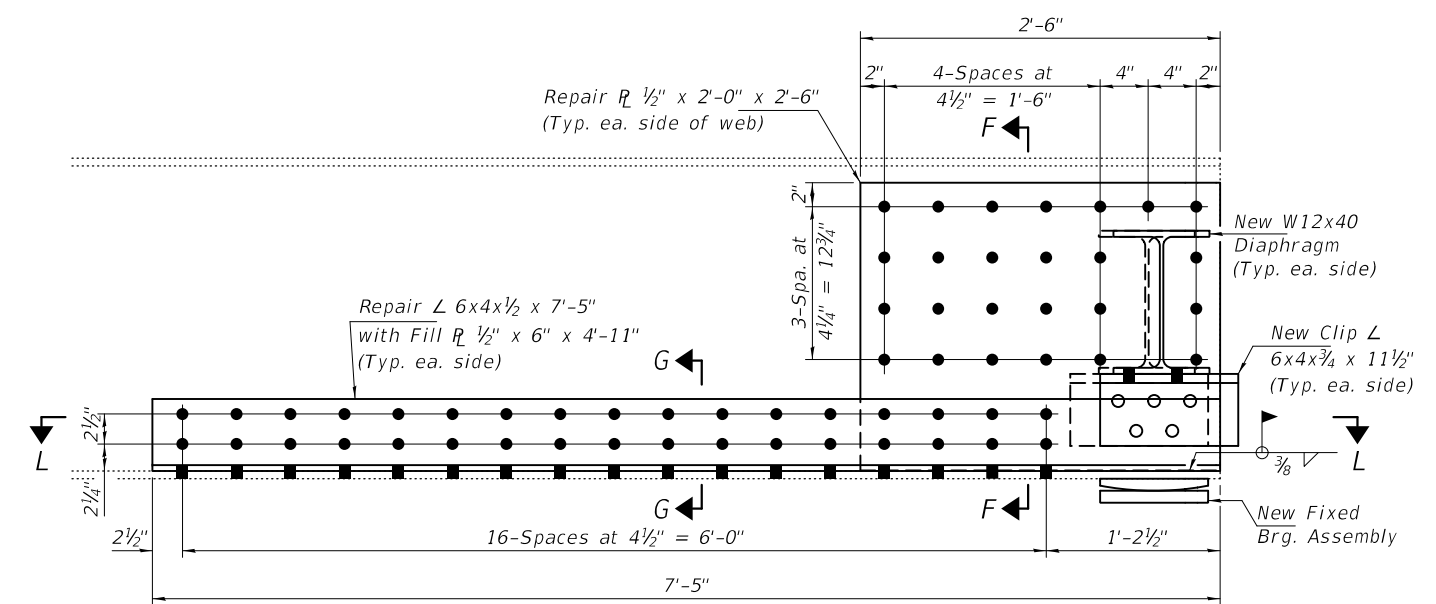
**SECTION J-J**



**SECTION K-K**



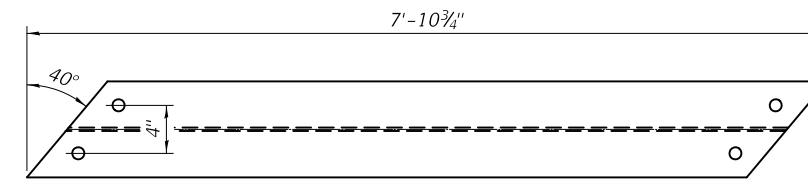
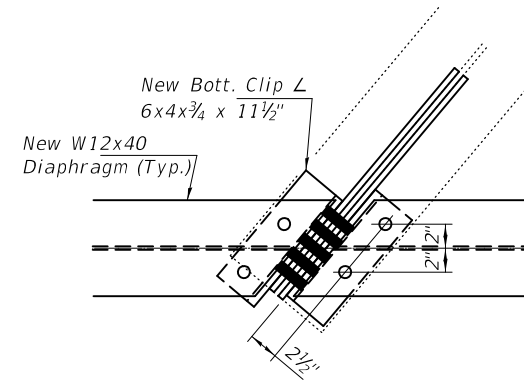
**SECTION L-L**



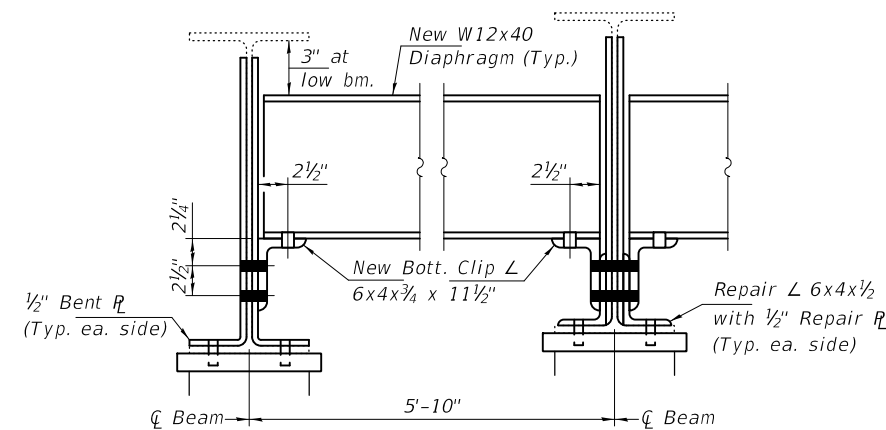
**REPAIR DETAIL FOR BEAM 5 AT NORTH ABUT.**  
(Looking West)

Notes:  
For Sections F-F & G-G see sheet 15 of 26.  
All web repairs on this sheet included  
with Structural Steel Repairs.

Notes:  
 Diaphragm connection holes shall be  $1\frac{5}{16}$ "Ø for  $\frac{3}{4}$ "Ø bolts. Two hardened washers shall be required at diaphragm connections.  
 Cost of new diaphragms and clip angles included with Furnishing & Erecting Structural Steel.



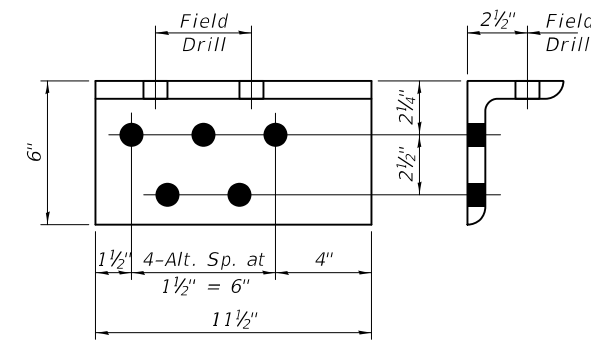
**DIAPHRAGM DETAILS**  
 W12x40 x 7'-10 $\frac{3}{4}$ " (10-Required)



S. ABUT., BEAMS 1, 2, 5 & 6  
 N. ABUT., BEAMS 1, 2, & 6

S. ABUT., BEAMS 3 & 4  
 N. ABUT., BEAMS 3, 4 & 5

**TYPICAL DIAPHRAGM CONNECTIONS**



**BOTTOM CLIP ANGLE DETAILS**  
 L 6x4x $\frac{3}{4}$  x 11 $\frac{1}{2}$ " (20-Required)

DESIGNED - HSS  
 CHECKED - JOV  
 DRAWN - STEFFEN  
 CHECKED - HSS JOV

EXAMINED  
 PASSED  
*Timothy A. Daulton*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl R. Meyer*  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 23, 2019  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DIAPHRAGM REPLACEMENT DETAILS  
 SN 074-0082

SHEET 18 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	26
CONTRACT NO. 70D46			ILLINOIS FED. AID PROJECT	



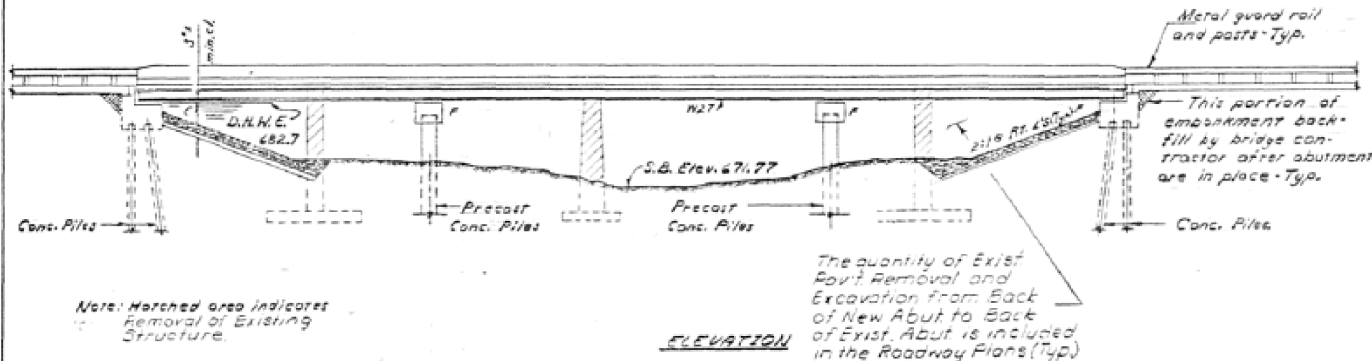
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	115	47	SHEET NO. 1
TOTAL SHEETS	20 SHEETS		

**Base Mark:** T.B.M. #2 Northeast wingwall Sta. 1002+00.00  
Elev. 684.07  
**Existing Structure:** S.N. 074-0087 (old) - The existing 2 span RCOG bridge built in 1931 is 93'-4" long to east of abutments and 24' out to out. The contractor shall remove the existing structure utilizing stage construction and replace it with a new 3 span continuous non-composite wide flange superstructure on open pile bent abutments.  
No. 20/10/98

GENERAL NOTES

See Proposal for Boring Data.  
Fasteners shall be high strength bolts (AASHTO M 164, Type 3). Bolts 7/8" open holes 1 1/8", unless otherwise noted.  
Calculated weight of Structural Steel M 163 = 1090 lbs., M 222 = 90580 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 (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 all splice plate material and wide flange beams.  
Reinforcement bars shall conform to the requirements of AASHTO M 31 or M-53 Grade 60.  
Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.  
The embankment configuration shown shall be the minimum embankment that will be constructed prior to construction of the abutments.  
Bearing 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 5/8" adjusting shims, of the same length as the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.  
The contractor shall drive 1 concrete test pile in a permanent location at the South Abutment and 1 prec. conc. test pile in a permanent location at Pier 2 as directed by the Engineer before ordering the remainder of piles.  
Retaining the embankment adjacent to the roadway during Stage II Construction, cost shall be incidental to "Structure Excavation".

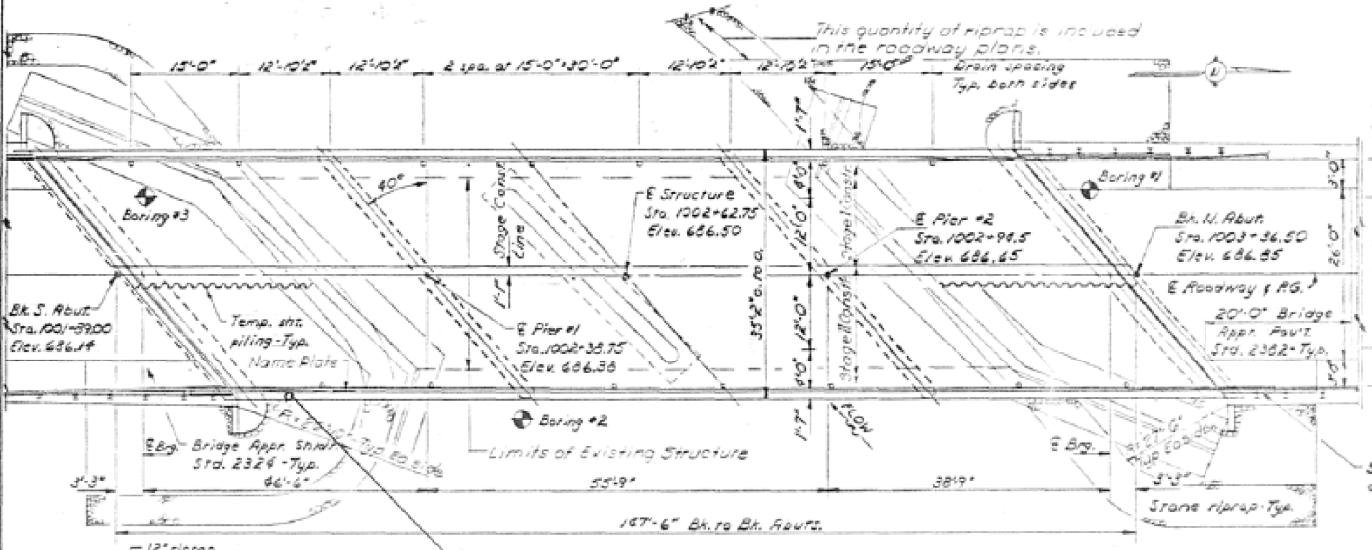


Note: Hatched area indicates Removal of Existing Structure.

The quantity of Exist. Pav. Removal and Excavation from Back of New Abut to Back of Exist. Abut is included in the Roadway Plans (Typ)

STATION 1002+62.75  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RTE. 760 SEC. 125 BR  
R.A. PROJ. BR 84-R-760(19)  
LOADING HS20  
STR. NO. 074-0080

NAME PLATE  
See S-d. 2118

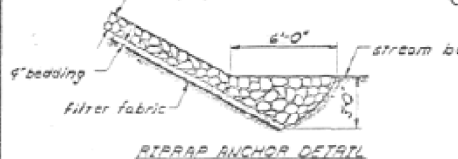


074-0082

\*Concrete Piles at Abuts. and Piers shall be driven in holes prepared to Elev. 660.0 in accordance with Art. 518.09(c) of the Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Test Piles Precast Concrete	Each		1	1
Removal of Existing Structures No. 1	Each		1	1
Precast Concrete Piles, 14"	Lin. Ft.		429	429
Temporary Bridge Rail	Lin. Ft.	148		148
Protective Coat	Sq. Yd.	657		657
Structural Steel	L. Sum	1		1
Pier Drains	Each	14		14
Name Plates	Each	1		1
Class II Concrete	Cu. Yd.	1254	653	2428
Reinforcement Bars (Epoxy Coated)	Pounds	42470		42470
Reinforcement Bars	Pounds		8060	8060
Elastomeric bearing Assembly, Type II	Each	6		6
Preformed Joint Seal (1/4")	Lin. Ft.	66		66
Leadrene Expansion Joint (2")	Lin. Ft.	66		66
Structure Excavation	Cu. Yd.		155	155
Concrete Piles	Lin. Ft.		556	556
Test Piles Concrete	Each		1	1
Stone Riprap (6")	Sq. Yd.		985	985
Temporary Steel Piling	Sq. Ft.		1299	1299



WATERWAY INFORMATION

Flow	Freq. Yr.	Q C.F.S.	Openings Sq. Ft.		Not. H.W.E.	Head = Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	1946	934	795	682.7	0.34	0.30	683.06	683.00
Base	100	2214	484	779	683.1	0.38	0.32	683.42	683.42
Overtopping	25	1643		705	684.34		0.24		684.50
Max. Galt.	500								

PROFILE GRADE

DESIGN STRESSES  
Fc = 2500 psi.  
Fy = 60000 psi (reinft)  
Fy = 50000 psi (AASHTO M 222 structural steel)  
Fy = 60000 psi (AASHTO M 183 Structural Steel)  
LOADING HS20-44  
Design Specifications: 1983 AASHTO  
Allow 25% sp. for future wearing surface.



GENERAL PLAN  
ILLINOIS ROUTE 48 OVER  
FRIENDS CREEK DITCH  
F.A.P. ROUTE 760 - SECTION 125 BR  
PIATT COUNTY  
STATION 1002+62.75  
STRUCTURE NO. 074-0080

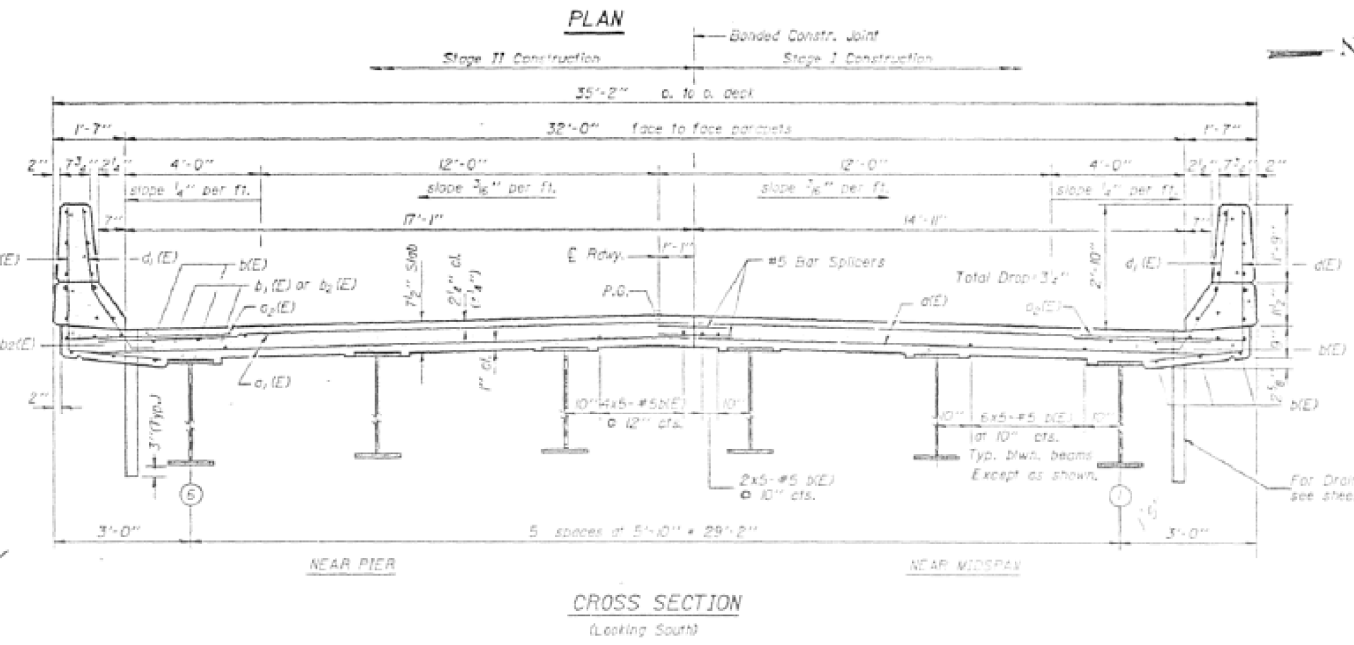
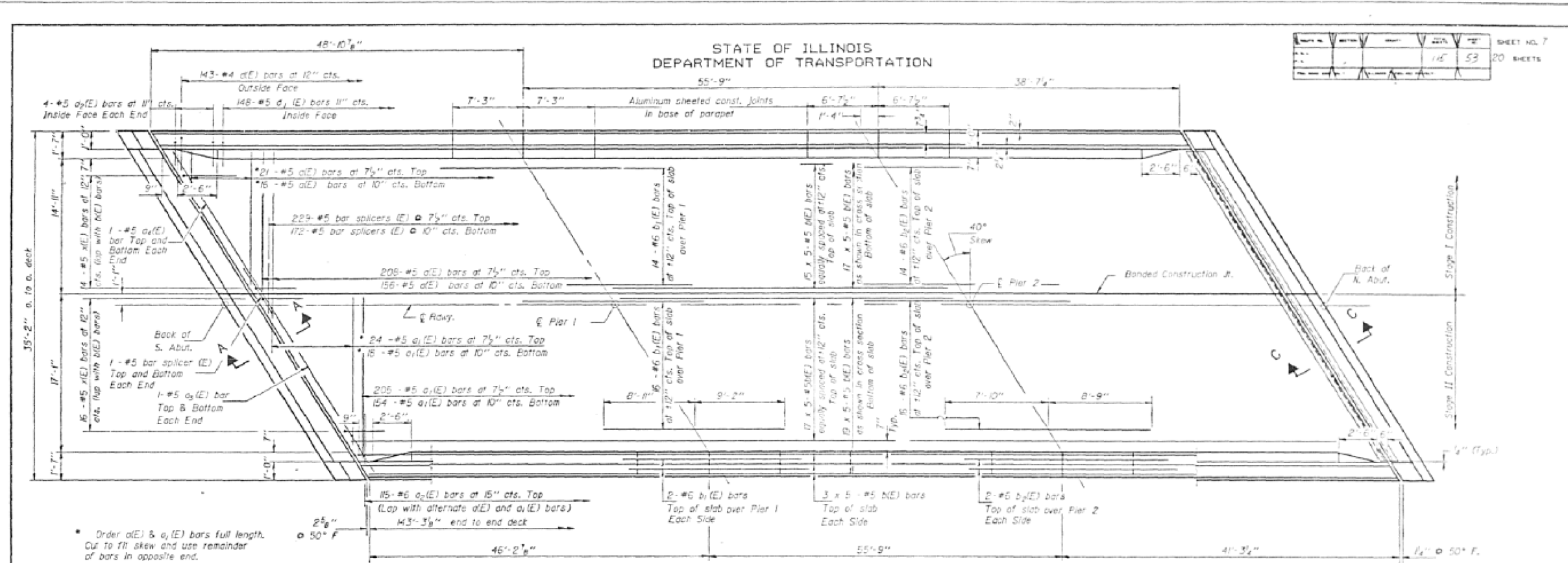
DESIGNED: Mary Blandorf  
CHECKED: Lance Smith  
DRAWN: F.M.  
APPROVED: [Signature]  
DATE: April 26, 1995

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO. 7  
145 53 20 SHEETS



DESIGNED Mary Blomdort  
 CHECKED James Reid  
 DRAWN Mercado  
 CHECKED James Reid  
 S-I-R(15°) 12-1-83

APPROVED  
 JAMES T. REID  
 ENGINEER IN CHARGE OF STRUCTURES

Notes: See sheets # 8 & 9 for superstructure details and Bill of Material.  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
 See sheet # 1 for Floor Drain Spacing.  
 For bar splicer (E) details see sheet # 5  
 Min. lap for #5 bars is 2'-2"  
 For Section A-A and Section C-C see sheet # 9

SUPERSTRUCTURE  
 F.A.P. RTE. 760 SEC. 125BR  
 PIATT COUNTY  
 STA. 1002+62.75

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	DRAWN -	REVISED -
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PLOT DATE = 11/27/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

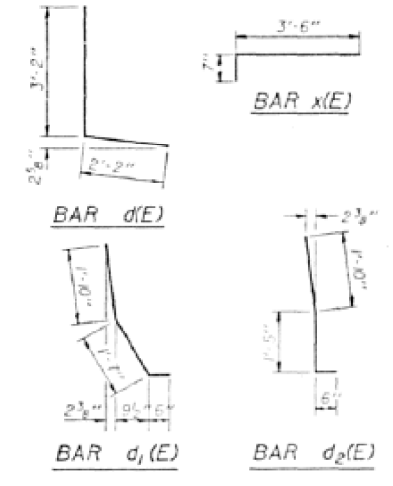
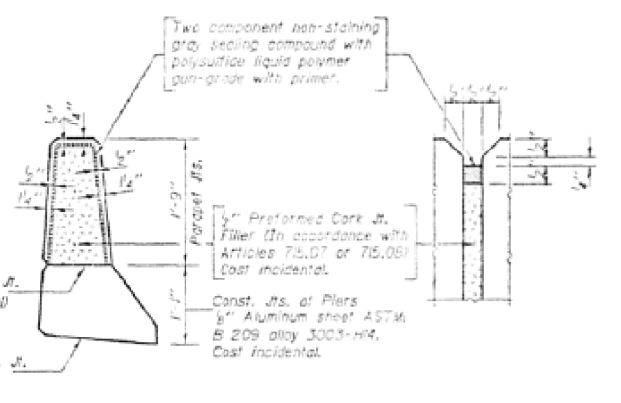
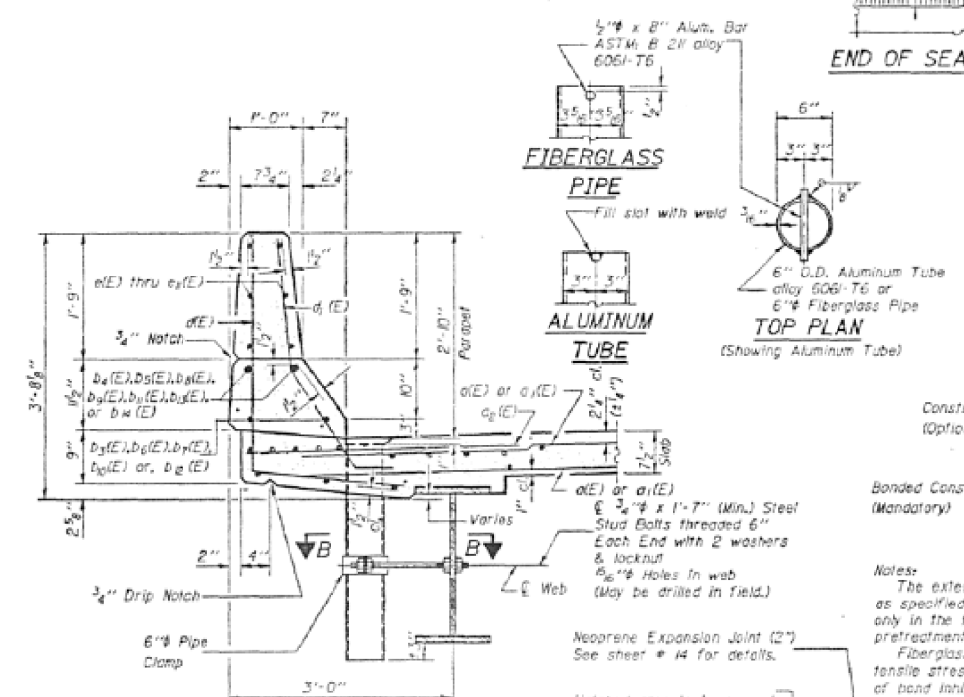
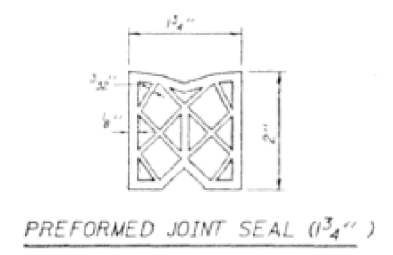
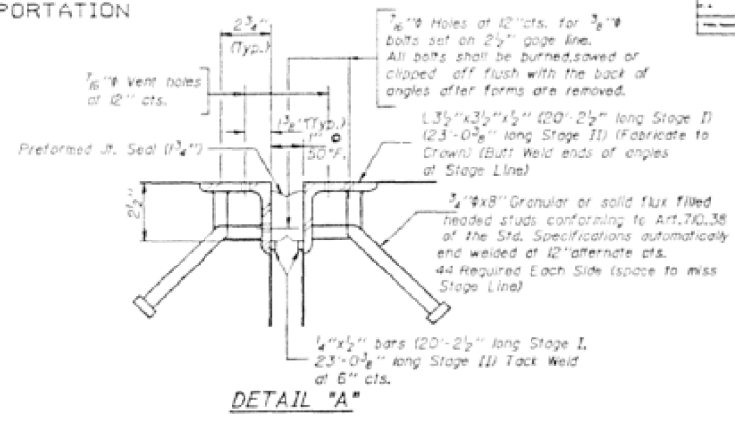
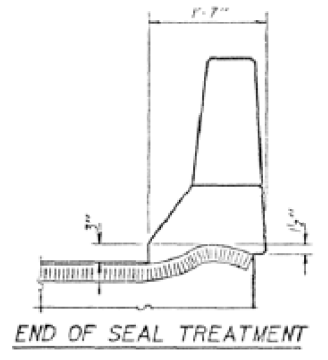
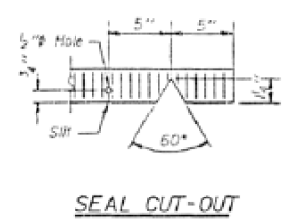
AS-BUILT PLANS FOR INFORMATION ONLY	
SCALE:	SHEET 21 OF 26 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	29
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

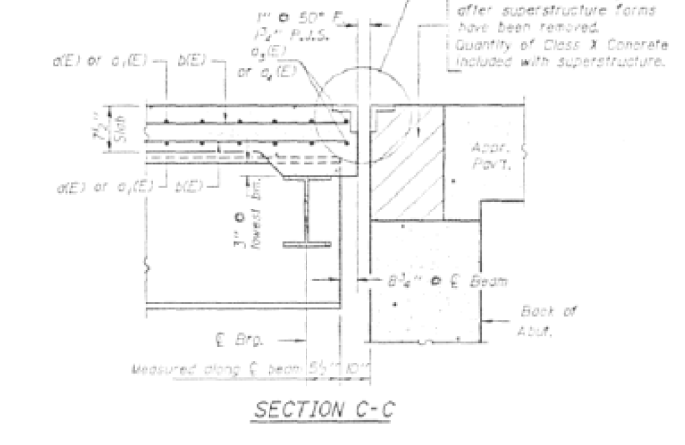
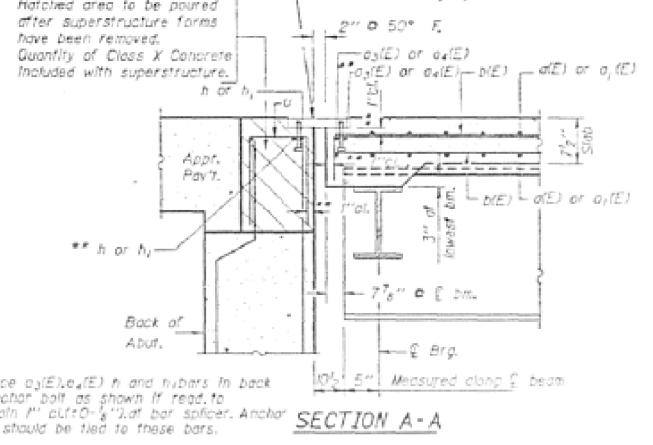
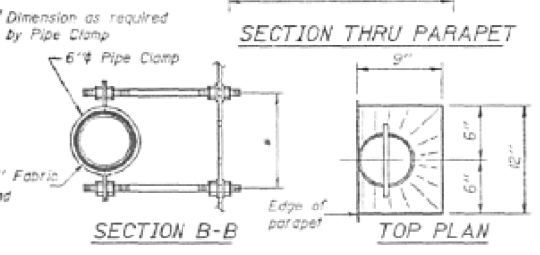
DATE	NO.	BY	REV.	BY	DATE
	115	SS	20		

SHEET NO. 9  
20 SHEETS



**SUPERSTRUCTURE  
BILL OF MATERIAL**

BAR	Qty	Size	Length	Shape
d1(E)	40	#5	15'-5"	
d2(E)	40	#5	17'-7"	
d3(E)	230	#6	4'-0"	
d4(E)	4	#5	23'-0"	
d5(E)	4	#5	20'-0"	
d6(E)	370	#5	30'-4"	
d7(E)	34	#6	18'-1"	
d8(E)	34	#6	16'-7"	
d9(E)	4	#5	21'-9"	
d10(E)	6	#8	23'-0"	
d11(E)	6	#8	7'-0"	
d12(E)	8	#5	7'-0"	
d13(E)	12	#5	27'-11"	
d14(E)	1	#8	30'-6"	
d15(E)	1	#8	39'-8"	
d16(E)	8	#5	18'-3"	
d17(E)	8	#5	6'-4"	
d18(E)	6	#5	6'-4"	
d19(E)	1	#8	33'-6"	
d20(E)	1	#8	34'-4"	
d21(E)	288	#4	5'-4"	
d22(E)	288	#5	3'-11"	
d23(E)	6	#5	3'-8"	
d24(E)	9	#4	19'-8"	
d25(E)	3	#4	21'-0"	
d26(E)	9	#4	20'-1"	
d27(E)	24	#4	7'-0"	
d28(E)	30	#4	15'-8"	
d29(E)	24	#4	6'-4"	
d30(E)	6	#4	16'-2"	
d31(E)	3	#4	15'-6"	
d32(E)	9	#4	16'-7"	
d33(E)	3	#4	17'-6"	
d34(E)	3	#4	18'-10"	
d35(E)	3	#4	19'-5"	
d36(E)	30	#5	4'-1"	
Reinforcement Bars (Epoxy Coated)	Lbs.		34670	
Class X Concrete	Cu. Yds.		613.5	



DESIGNED *Mary Bloxdorf*  
CHECKED *Renee Gidd*  
DRAWN *Mercado*  
CHECKED *Loren Hilde*  
S-1-D 12-1-B3

EXAMINED *D.A.H.*  
PASSED *James J. Robinson*  
APPROVED

April 26 1985

\*\* Place d3(E), d4(E) h and h1 bars in back of anchor bolt as shown if read to maintain 1" clear of bar splicer. Anchor bolts should be tied to these bars.

**SUPERSTRUCTURE DETAILS**  
F.A.P. RTE. 760 SEC. 125BR  
PIATT COUNTY  
STA. 1002+62.75

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	DRAWN -	REVISED -
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PLOT DATE = 11/27/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET 22	OF 26 SHEETS	STA.	TO STA.
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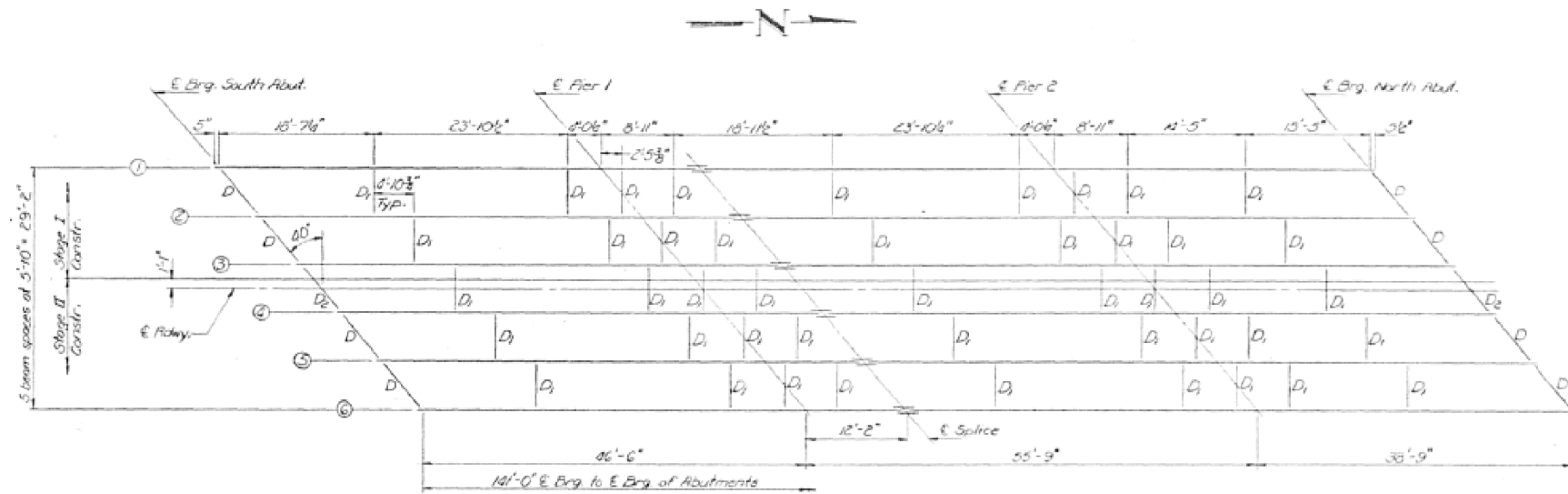
AS-BUILT PLANS  
FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	30
CONTRACT NO. 70D46			ILLINOIS FED. AID PROJECT	

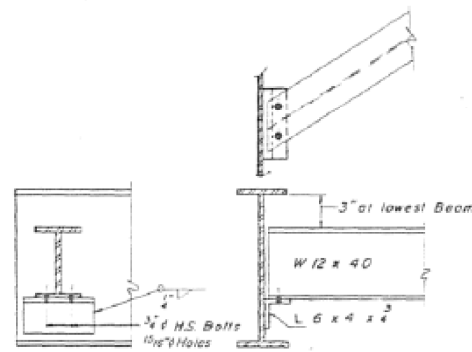
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NO.	DATE	BY	REVISION
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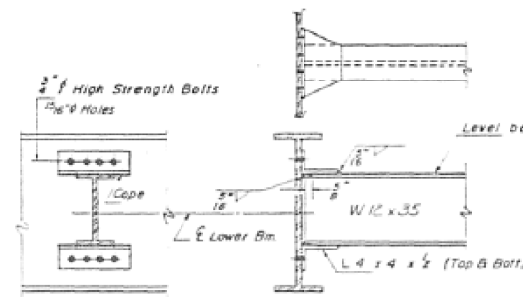
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20 SHEETS



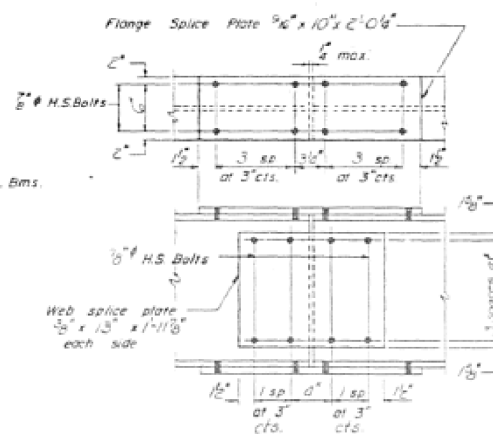
**FRAMING PLAN**  
All beams are W12 x 35



**DIAPHRAGM D**  
6 Required



**DIAPHRAGM D1**  
45 Required



**SPLICE**

Notes: Two hardened washers shall be required over all 3/8" holes.  
All structural steel shall be AASHTO M222.  
Mark this sheet with sheet #11.

DESIGNED <i>Mary Staxbert</i>	APPROVED <i>April 26 1985</i>
CHECKED <i>Lance Spahl</i>	EXAMINED <i>J.A.A.</i>
DRAWN <i>Joe Sutherland</i>	PASSED <i>James J. Frazier</i>
CHECKED <i>Lance Spahl</i>	APPROVED

I-2-D 8-30-80

STRUCTURAL STEEL  
F.A.P. RT. 760, SEC. 125BR  
PIATT COUNTY  
STATION 1002+62.75

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS  
FOR INFORMATION ONLY

USER NAME = shawleres	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/27/2018	DATE -	REVISED -

SCALE: SHEET 23 OF 26 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	31
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

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 OFFICE: DISTRICT 5  
 DATE: 11/27/2018

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO. 12  
115 58 20 SHEETS

**ELEVATION AT S. ABUT.**  
 5" C Brg.  
 7/8" Holes in Bolt, Flange  
 Bearing Assembly  
 Shim R 1/2" x 7" x 1-8/16" Bm. 3  
 Shim R 3/4" x 7" x 1-8/16" Bm. 4  
 1/8" Lead E

**SECTION A-A**  
 Side Retainer (Tack weld to Bolt, E)  
 2" 3" 3" 2"  
 5" 5" 8 1/2" 8 1/2" 2"  
 1-8 1/2"  
 \* 1" x 1/4" Anchor bolts with 2 1/2" x 2 1/2" x 3/8" E washer under nut. 1/2" holes in bottom E.

**ELEVATION AT PIERS**  
 2 1/2" C Brg.  
 E 1/2" x 9" x 11"  
 E 1 1/8" x 9" x 1-6/16"  
 1/8" Lead E  
 Shim R 1/2" x 9" x 1-6/16" Bm. 3  
 Shim R 3/4" x 9" x 1-6/16" Bm. 4

**SECTION B-B**  
 1/8" holes 1" deep in top E for 1/4" x 4 pintoles. Thread or press fit in bottom E.  
 2 1/2" x 2 1/2" x 3/8" E washer under nut  
 1/2" holes in bottom E.

**TYPE II TFE ELASTOMERIC EXP. BRG.**

**TOP BEARING ASSEMBLY**  
 8" 2" 4" 2"  
 3/4" x Threaded Stud with flat washer & hex. nut. (4 Req'd.)  
 E 1/2" x 8" x 1'-0"  
 1/8" Stainless Steel (A240, Type 304, 2B Finish)  
 c.f.w.

**PLAN-TFE SURFACE**  
 1/4" Dimples on 1/2" centers 1/8" deep, or equivalent.  
 TFE Surface

**SECTION THRU TFE**  
 1/2" TFE with dimpled surface  
 1/4" 1/4" 1/4"

**BOTTOM BEARING ASSEMBLY**  
 5" 8" 5"  
 1/2" TFE  
 3/4" R  
 6" Layers of 2 1/2" Elastomer (55 Durometer)  
 5" x 14 ga. Steel Plates  
 E 1" x 7" x 1-8/16"  
 3/8" 3/8" E 1/2" Holes  
 Bonded

**SIDE RETAINER**  
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.  
 April 26, 1985

**ELEVATION AT N. ABUT. FIXED BEARINGS**  
 2 1/2" C Brg.  
 E 1" x 9" x 11"  
 E 1" x 9" x 1-6/16"  
 1/8" Lead E  
 Shim R 1/2" x 9" x 1-6/16" Bm. 3  
 Shim R 3/4" x 9" x 1-6/16" Bm. 4

**BILL OF MATERIAL**

Item	Qty	Total
Elastomeric Bearing Assembly, Type II	Each	6

**SETTING ANCHOR BOLTS AT EXP. BRG.**  
 5" C Top Brg.  
 5" C Top Brg.  
 1" 0" 4" 0" 1" 0"  
 4" 0" 1" 0" 4" 0" 1" 0"  
 (Move 2 1/2" Brg. 1/4" from 1/2" to 1/2") (Move 2 1/2" Brg. inward from 1/2")

**DESIGNED** Mary Blaxdert  
**CHECKED** Lorie Field  
**DRAWN** F.M.  
**CHECKED** Lorie Field  
**APPROVED** James J. Rayburn

**BEARING DETAILS**  
 E.A.P. RTE. 760 SEC. 125 BR  
 PIATT COUNTY  
 STA. 1002+02.75

**I-2-E2** (21 of 23)

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	DRAWN -	REVISED -
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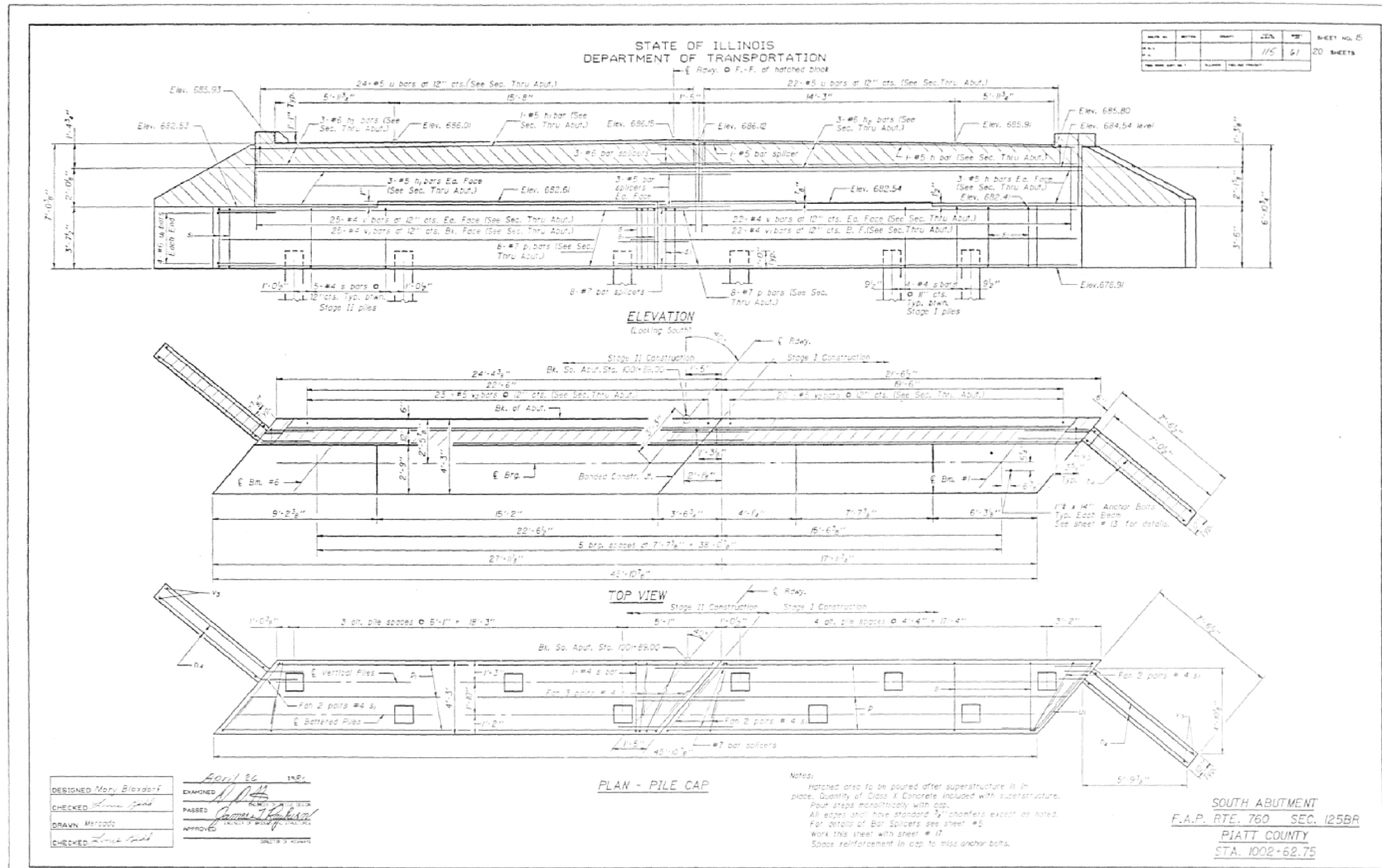
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS  
FOR INFORMATION ONLY**

SCALE:	SHEET 24	OF 26 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	32
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

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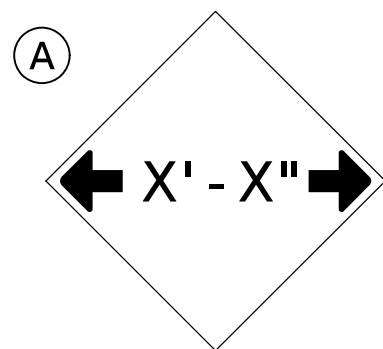
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS  
FOR INFORMATION ONLY**

SCALE: SHEET 25 OF 26 SHEETS STA. TO STA.

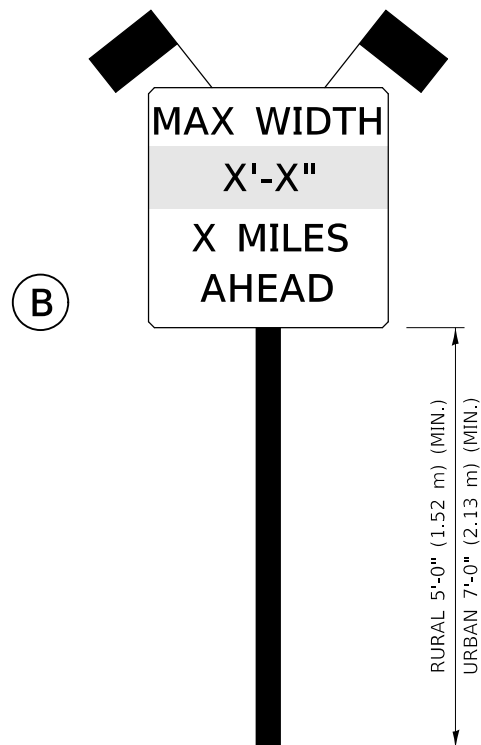
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760	125BR-1	PIATT	36	33
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



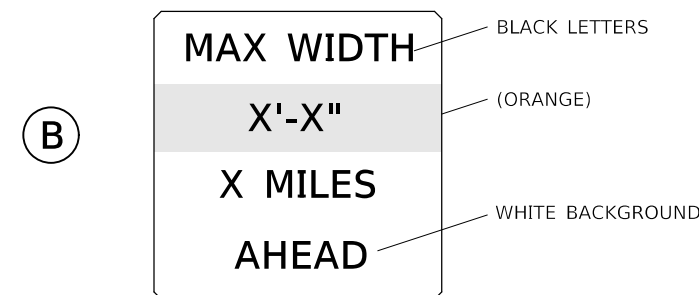


**W12-2(O)-48"x48"(1200x1200)**

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



**SIGN PANEL, TYPE II**



**W12-I103(O)-48"x48"(1200x1200)  
"D" LETTERS/NUMBERS**

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE WIDTHS:

STAGE 1 WIDTH = 12'-0" ACTUAL; 10'-6" POSTED; REQUIRED

STAGE 2 WIDTH = 13'-0" ACTUAL; 11'-6" POSTED; REQUIRED

**GENERAL NOTES**

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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PLOT DATE = 11/27/2018	DATE -	REVISED - 03/11 KJT

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. X7200201**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	35
			CONTRACT NO. 70D46	
		ILLINOIS	FED. AID PROJECT	



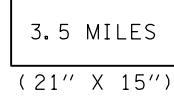
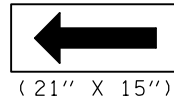
# S.N. 074-0082

## WIDTH RESTRICTION SIGNINGS FOR IL-48 TRAFFIC

**B1** IL-48 NORTHBOUND  
ERECT BY JUNCTION I-72 SIGN  
4 MILES AHEAD

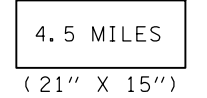
**A1** I-72 EASTBOUND EXIT RAMP  
ERECT BY LEFT SIDE DO NOT ENTER SIGN  
INCLUDE DIRECTION ARROW SIGN (LEFT)

**A2** IL-48 NORTHBOUND  
ERECT 75' PAST RAMP  
INCLUDE 3.5 MILES AHEAD SIGN

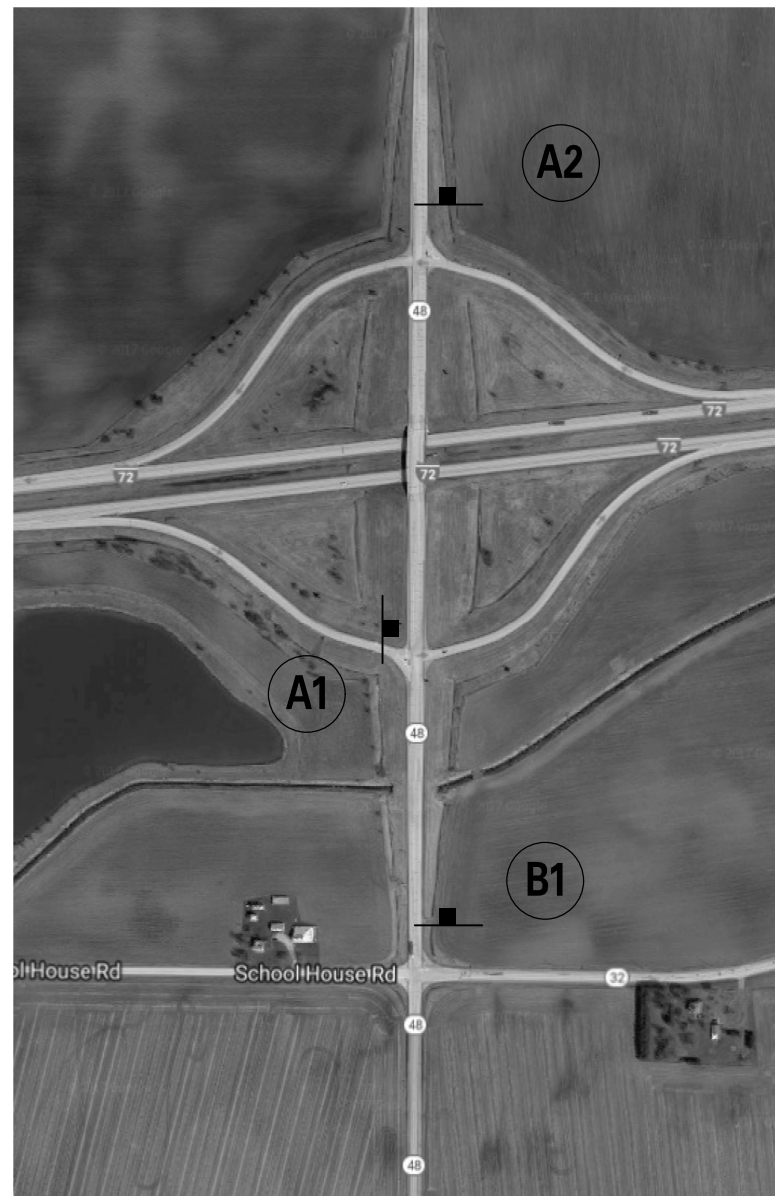


**B2** IL-48 SOUTHBOUND  
ERECT BY CHAMPAIGN/CLINTON ARROW SIGN  
4 MILES AHEAD

**A3** IL-48 SOUTHBOUND  
ERECT BY SOUTH IL-48, NO PARKING SIGN  
INCLUDE 4.5 MILES AHEAD SIGN



### NORTHWEST OF CISCO INTERCHANGE OF IL-48 & I-72



### WELDON INTERSECTION OF IL-48 & IL-10



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PLOT DATE = 11/27/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING  
S.N. 074-0082**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	36
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				