

170

04-26-2019 LETTING ITEM 170

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. AVE	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.

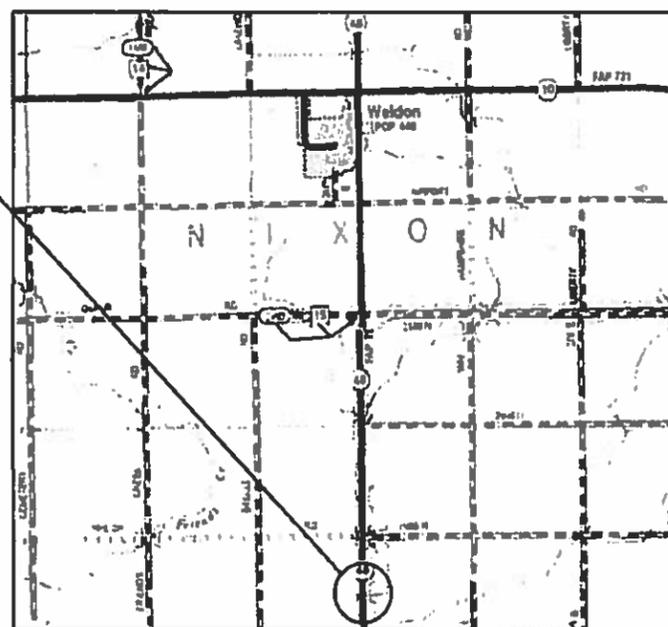
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-492-0123
OR 811

TOWNSHIP: GOOSE CREEK

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

CONTRACT NO. 70D46

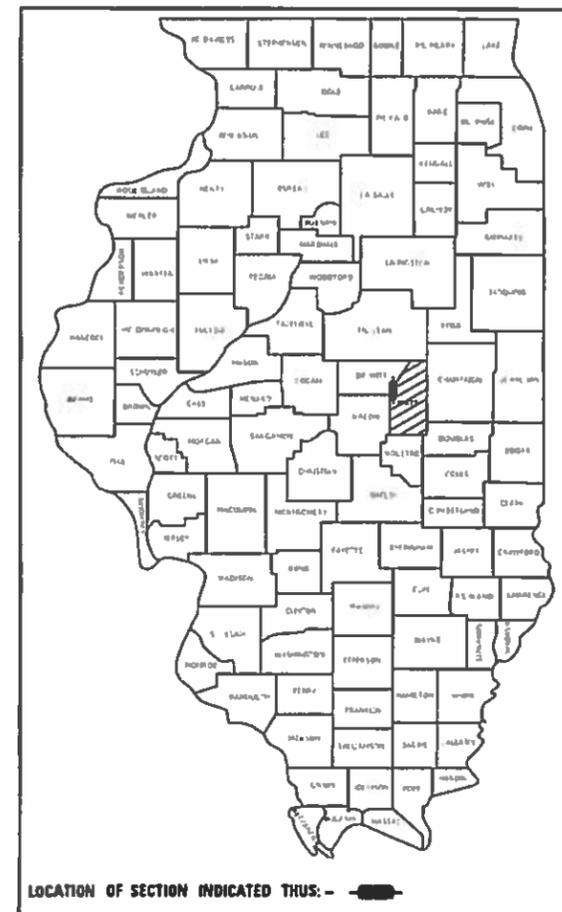
EXISTING S.N. 074-0082
F.A.P. 760 (IL-48)
OVER FRIENDS CREEK DITCH
STATION 1002+62.75
BRIDGE DECK REPAIRS



R 4 E

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

D-95-059-16



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *November 27, 2018*

Paul J. Shawler
DEPUTY DIRECTOR OF HIGHWAYS REGIONAL 3 ENGINEER

Feb 19 2019
ENGINEER OF DESIGN AND ENVIRONMENT

Paul J. Shawler
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 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.

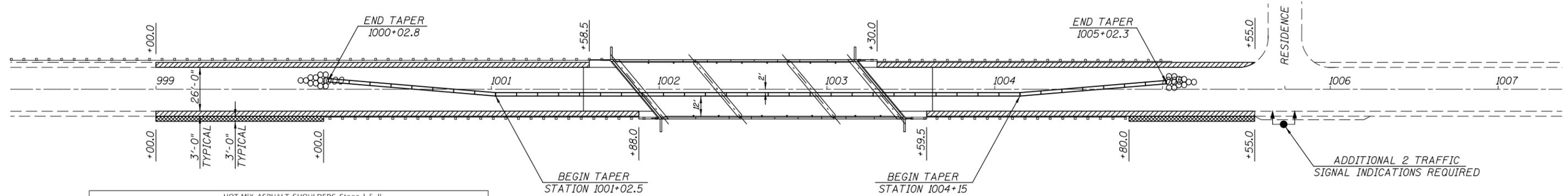
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760	125BR-1	PIATT	36	4
			CONTRACT NO. 70D46	
ILLINOIS FED. AID PROJECT				

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.

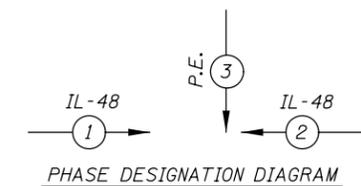
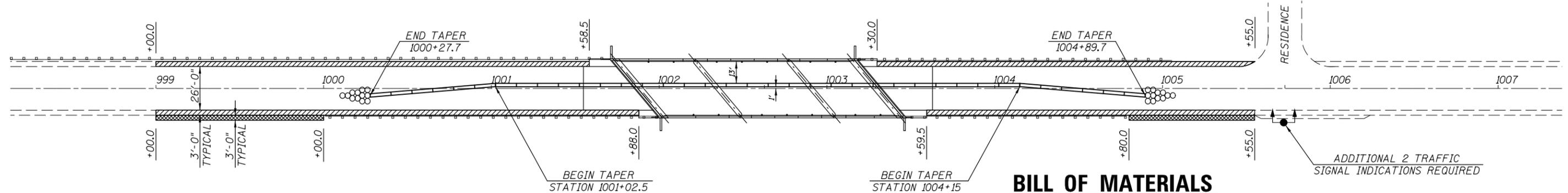
REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST TO BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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



NOTE: REFER TO STANDARD 701321 FOR TRAFFIC SIGNAL PLACEMENT



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

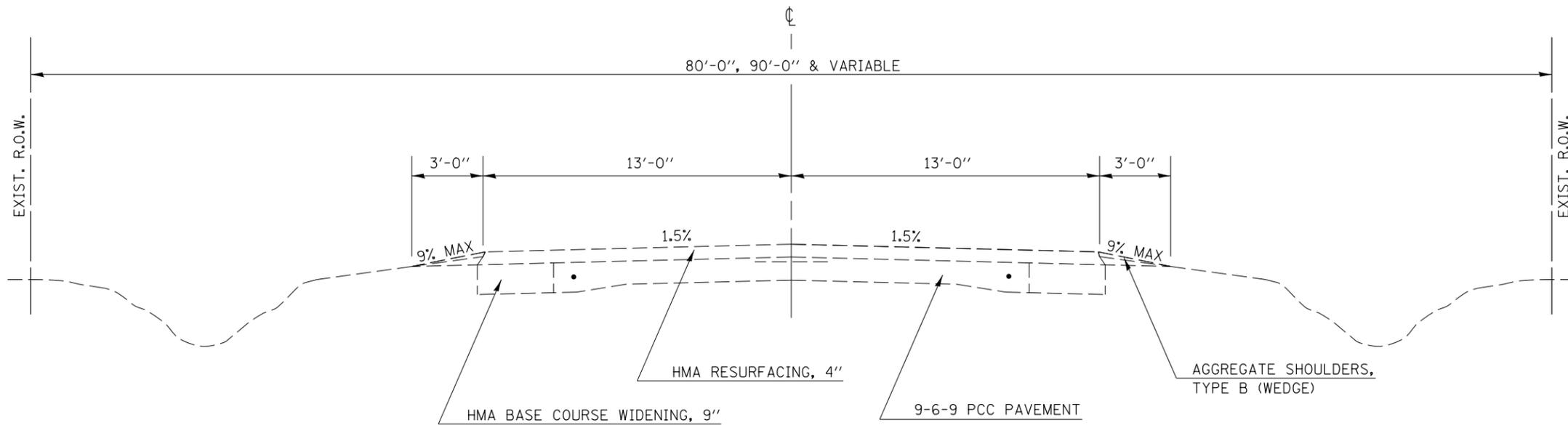
TEMPORARY CONCRETE BARRIER DETAILS
S.N. 074-0082

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

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

EXISTING TYPICAL CROSS SECTION

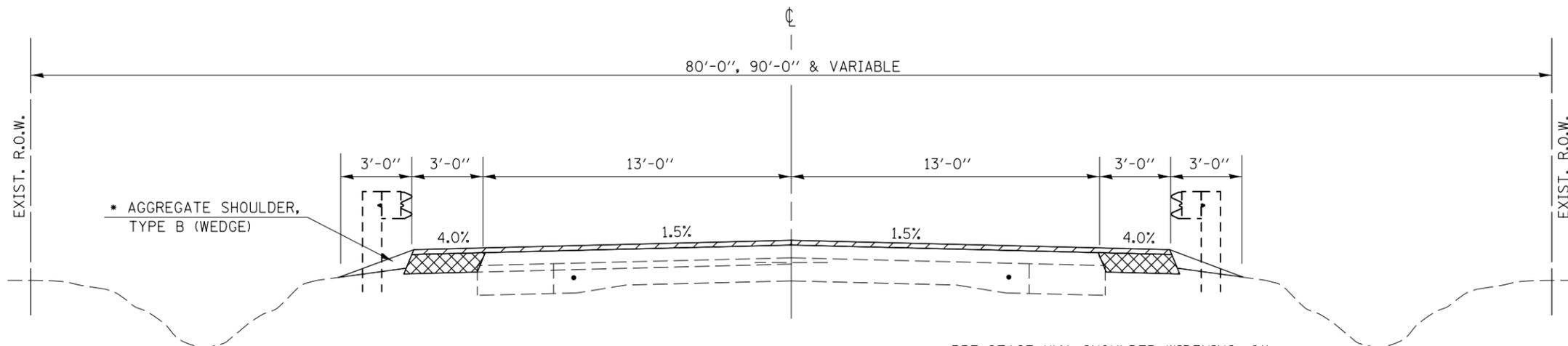
STA. 998 + 00 TO STA. 1008 + 00.00



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.

MODEL: \\MODELNAME; FILE NAME: \\FILENAME; PROJECT: \\PROJECT; OFFICE: \\OFFICE; DRAWN: \\DRAWN; CHECKED: \\CHECKED; DATE: \\DATE; SCALE: \\SCALE; SHEET: \\SHEET; TOTAL SHEETS: \\TOTAL SHEETS; CONTRACT NO.: \\CONTRACT NO.

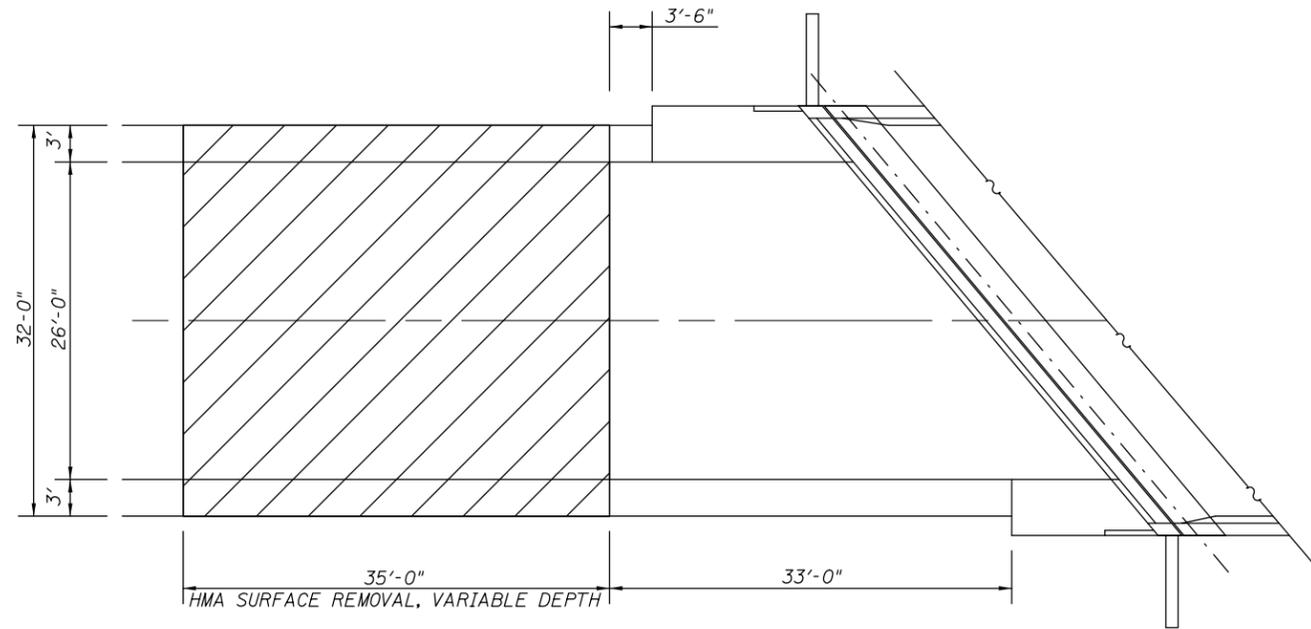
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

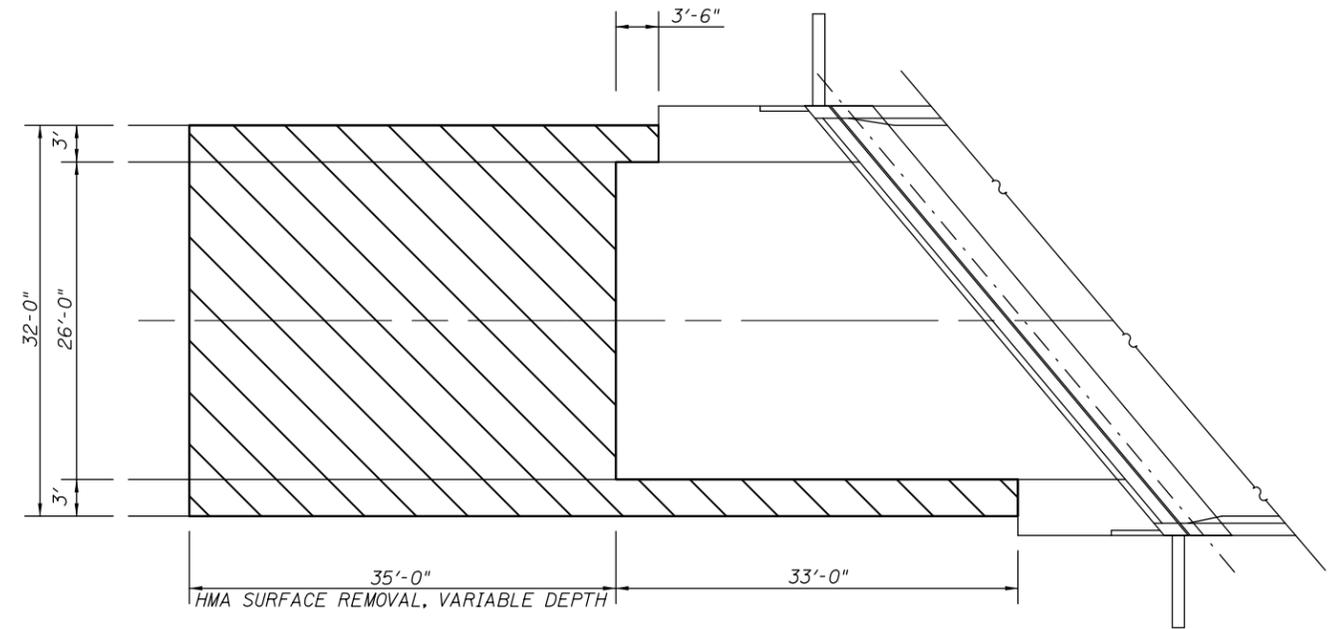
TYPICAL CROSS SECTION
S.N. 074-0082

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				

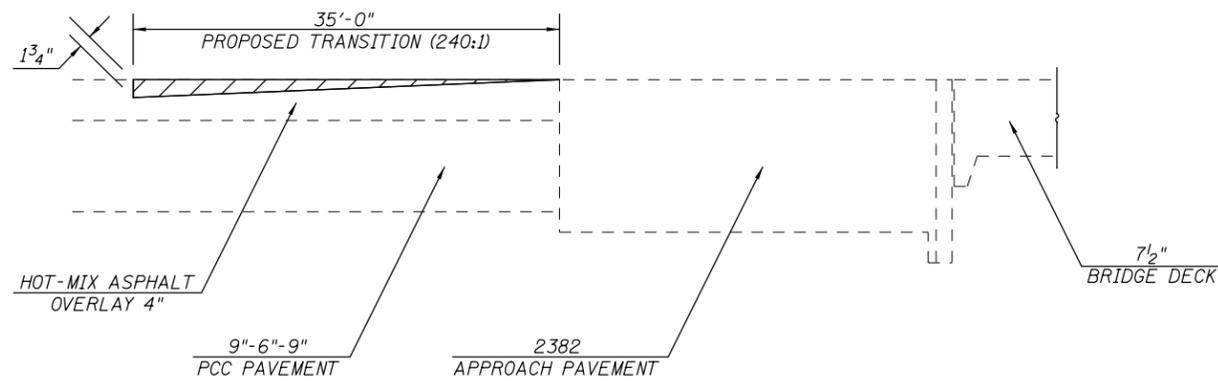


EXISTING PLAN
(SOUTH TRANSITION SHOWN
NORTH TRANSITION SIMILAR)

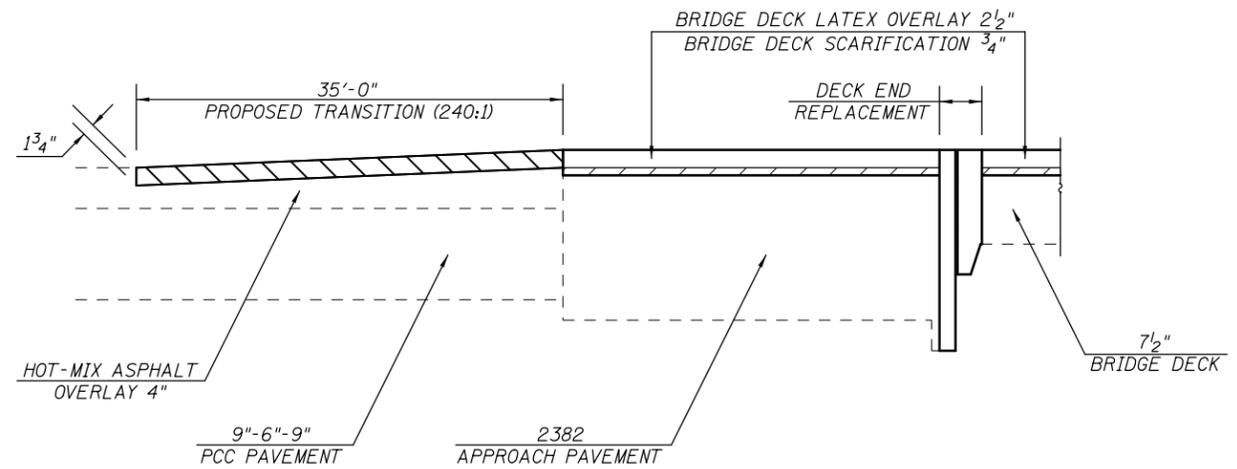


PROPOSED PLAN
(SOUTH TRANSITION SHOWN
NORTH TRANSITION SIMILAR)

- 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: NE₄ 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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DATE: 11/27/2018

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

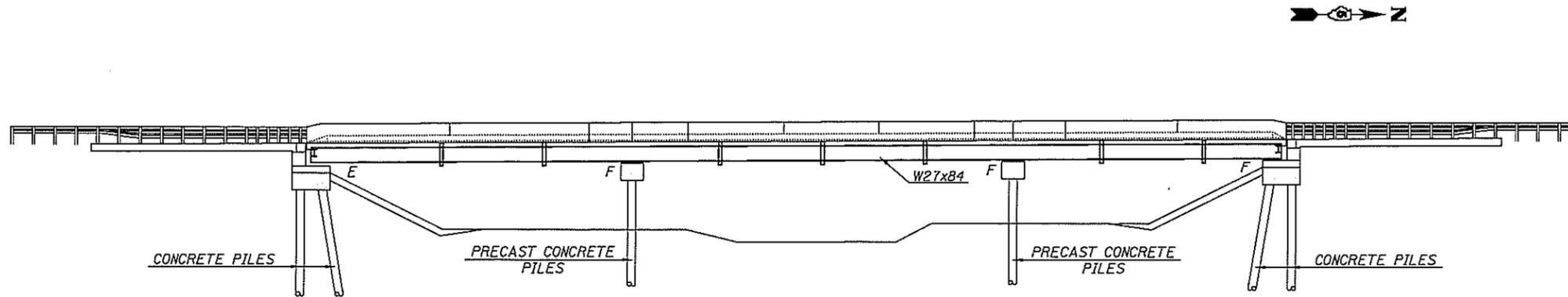
**APPROACH TRANSITION DETAILS
S.N. 074-0082**

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

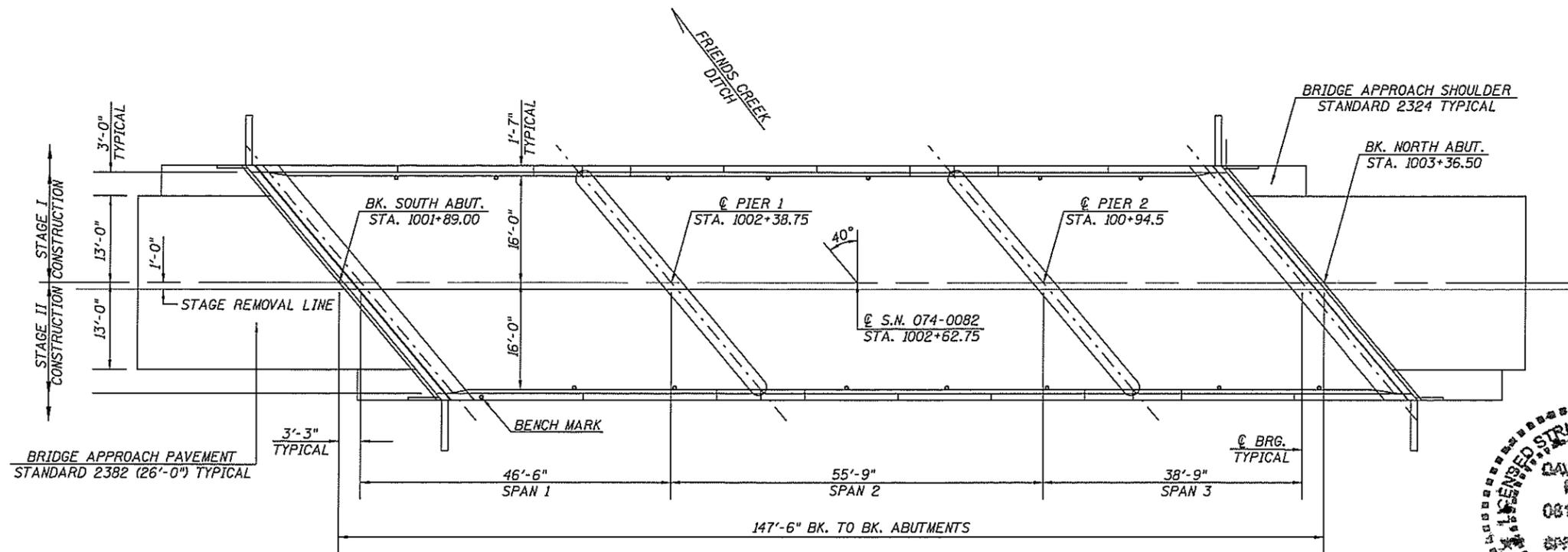
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	8
			CONTRACT NO. 70D46	
ILLINOIS FED. AID PROJECT				

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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PLOT DATE = 11/27/2018	CHECKED - TJB	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 S.N. 074-0082

F.A.P. RTE. 760	SECTION 125BR-1	COUNTY PIATT	TOTAL SHEETS 36	SHEET NO. 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

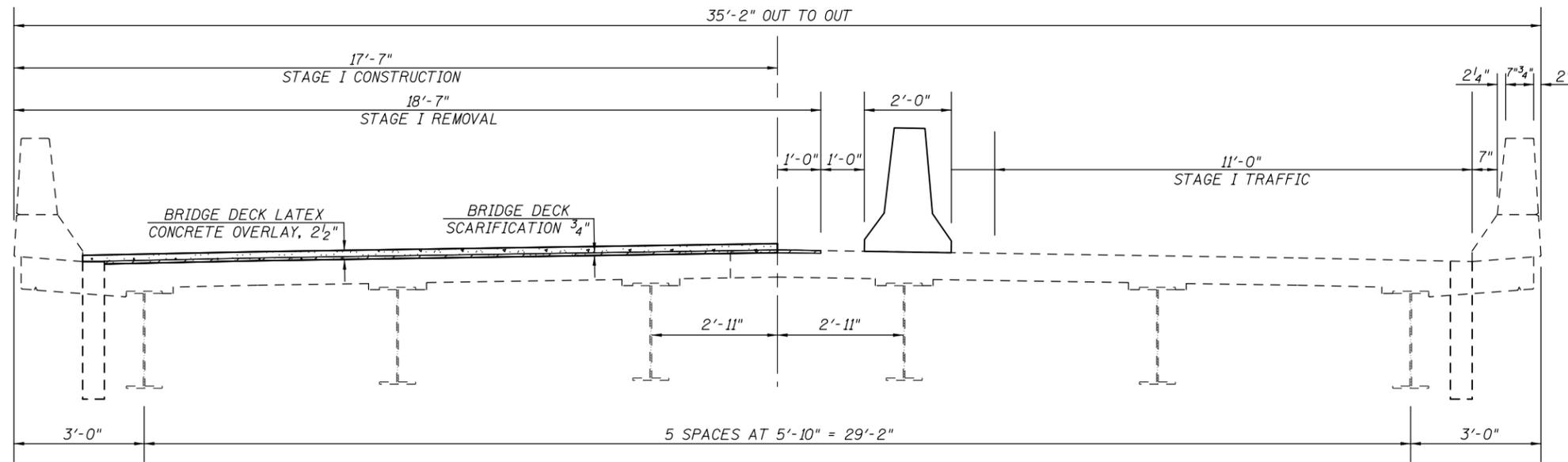
SUMMARY OF QUANTITIES
S.N. 074-0082

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.

STAGE I CONSTRUCTION DETAIL

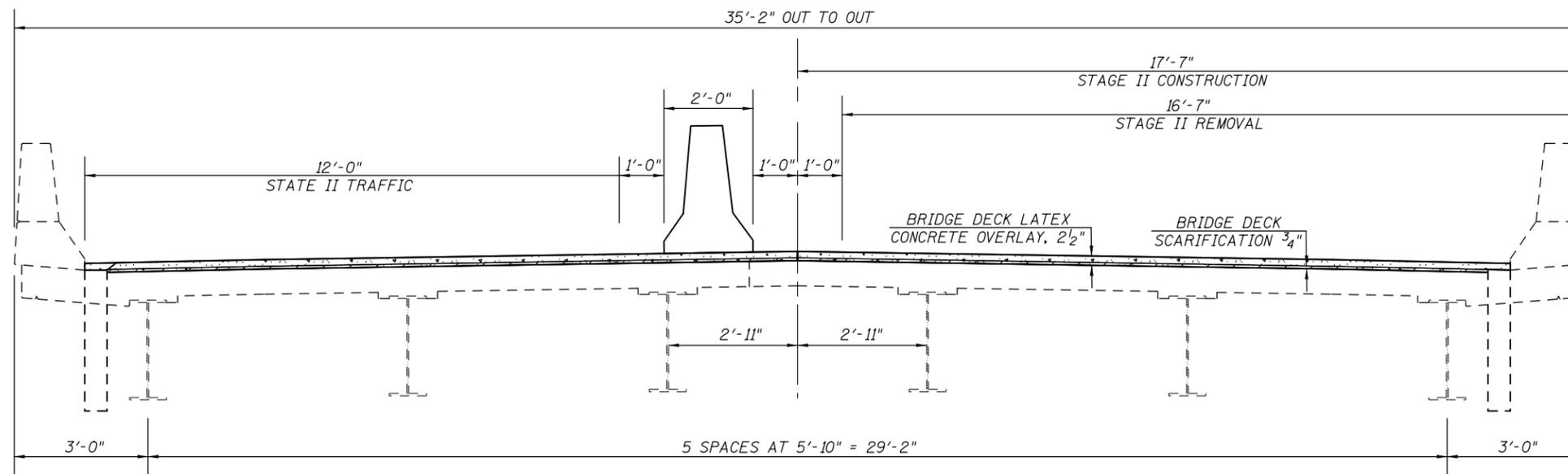
S.N. 074-0082



LOOKING NORTH

STAGE II CONSTRUCTION DETAIL

S.N. 074-0082



LOOKING NORTH

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

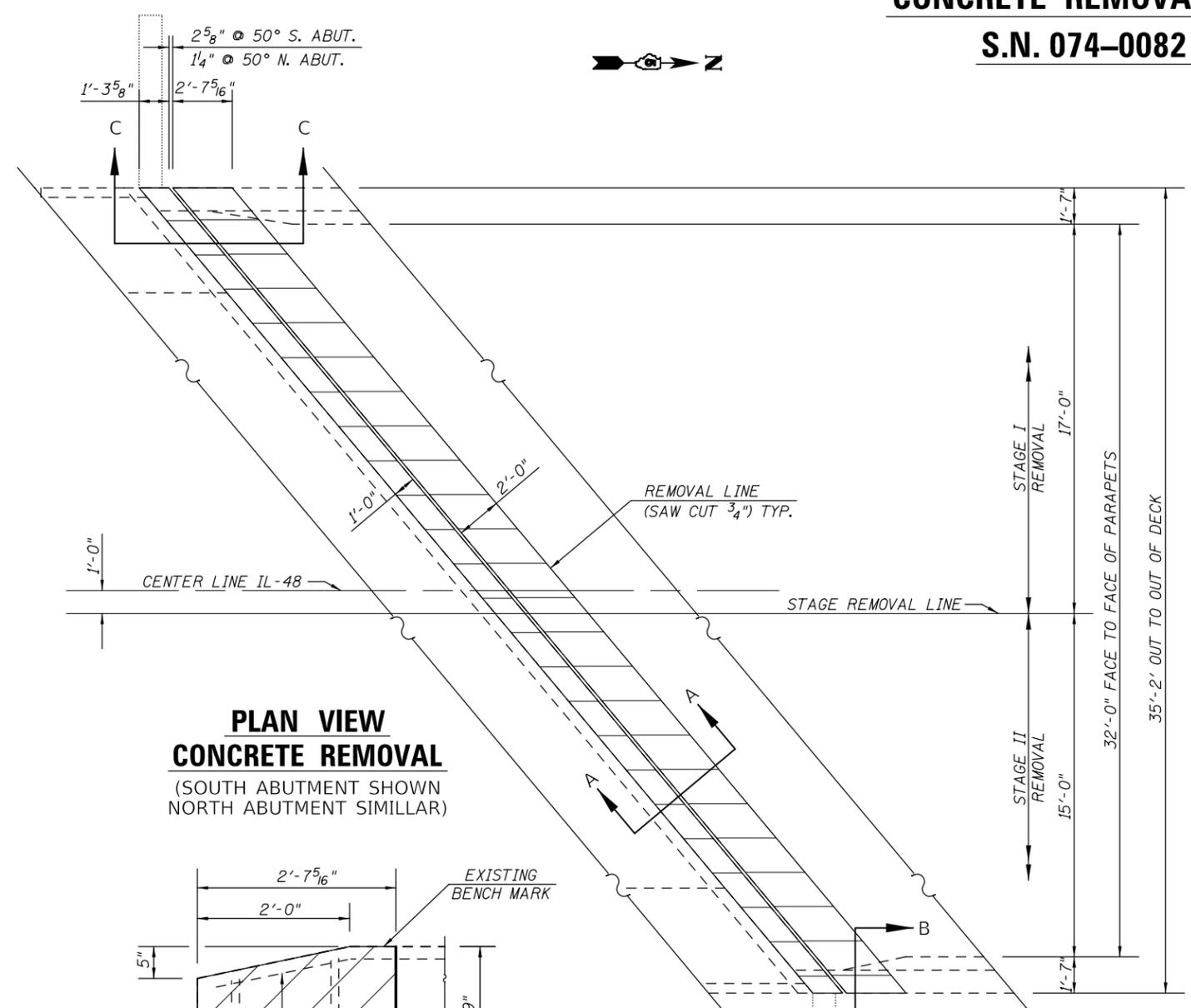
**STAGE CONSTRUCTION DETAILS
S.N. 074-0082**

SCALE: SHEET 4 OF 26 SHEETS STA. TO STA.

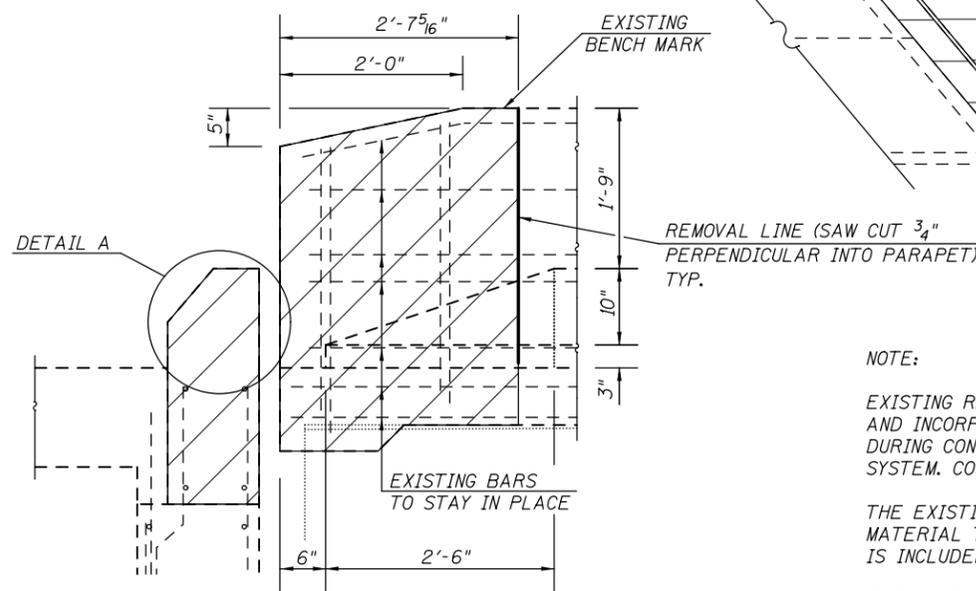
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760	125BR-1	PIATT	36	12
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				

CONCRETE REMOVAL PLAN

S.N. 074-0082



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



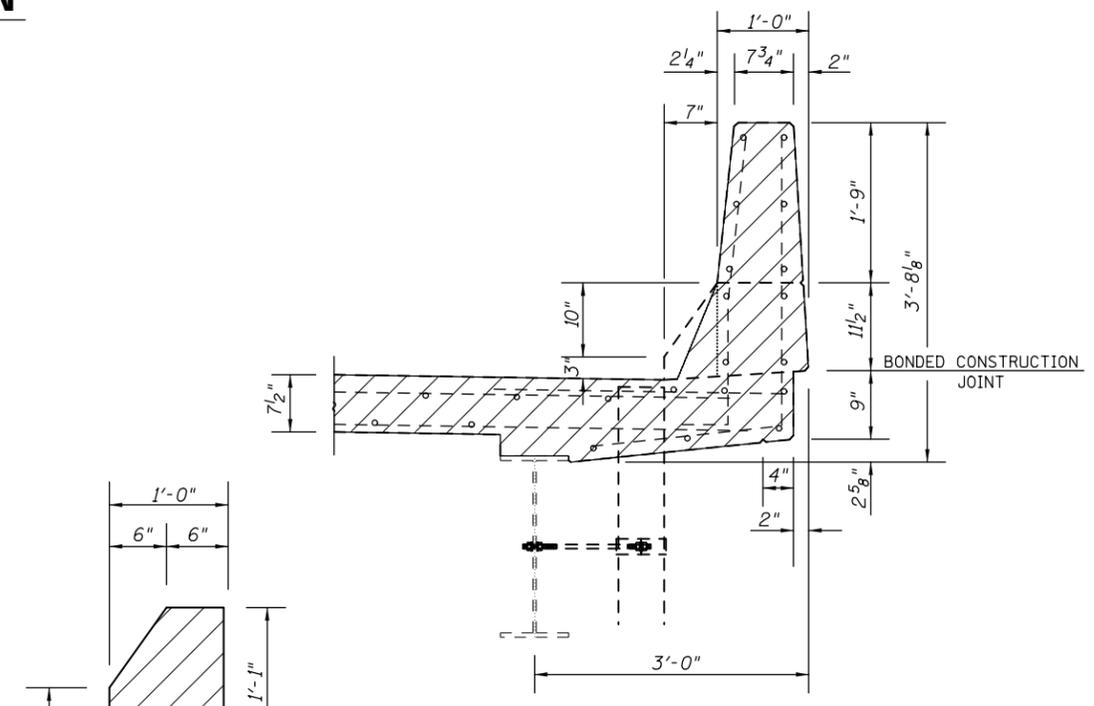
**SECTION C-C
CONCRETE REMOVAL**

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.

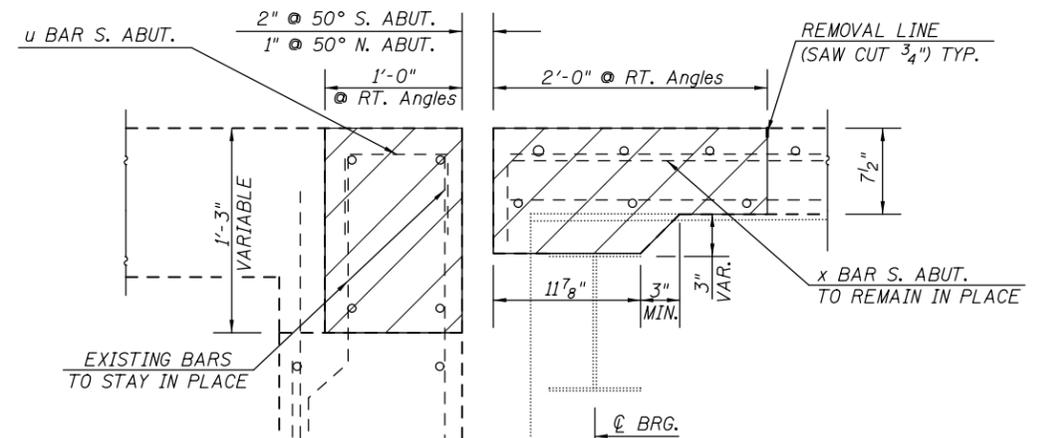
THE EXISTING EXPANSION JOINT SYSTEM SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. THE COST OF THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE GUARDRAIL WITHIN THE PARAPET REMOVAL AND REPLACEMENT LIMITS SHALL BE REMOVED TO ALLOW FOR THE REPAIR WORK TO BE COMPLETED. THE CONTRACTOR IS TO SAFELY STORE REMOVED MATERIAL. FOLLOWING COMPLETION OF REPAIR WORK THE CONTRACTOR TO EITHER SAVE AND RE-USE THE EXISTING CAST-IN-PLACE ANCHOR SYSTEM OR USE EPOXY-GROUTED THREADED RODS TO RE-ATTACH THE EXISTING GUARDRAIL. THE COST OF THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



**SECTION B-B
CONCRETE REMOVAL**

DETAIL A



**SECTION A-A
CONCRETE REMOVAL**

CONCRETE REMOVAL

BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	11.4

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

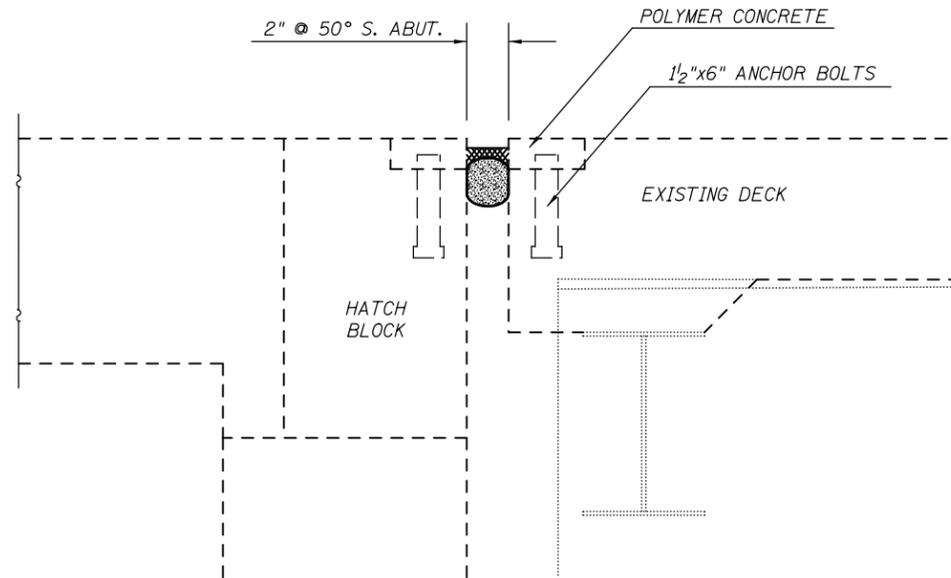
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

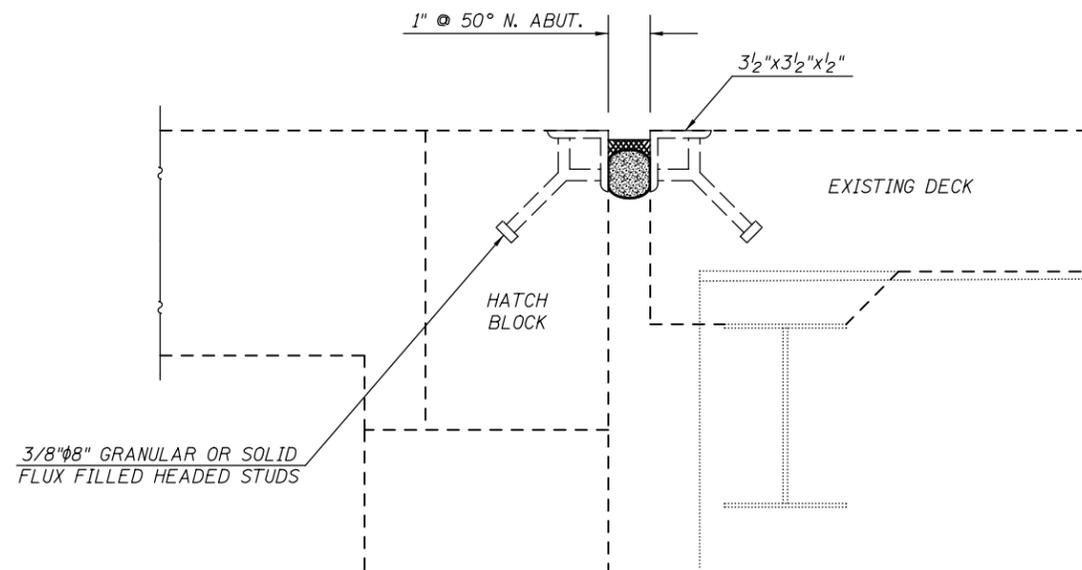
CONCRETE REMOVAL DETAIL - JOINTS
074-0082

SCALE: SHEET 6 OF 26 SHEETS STA. TO STA.

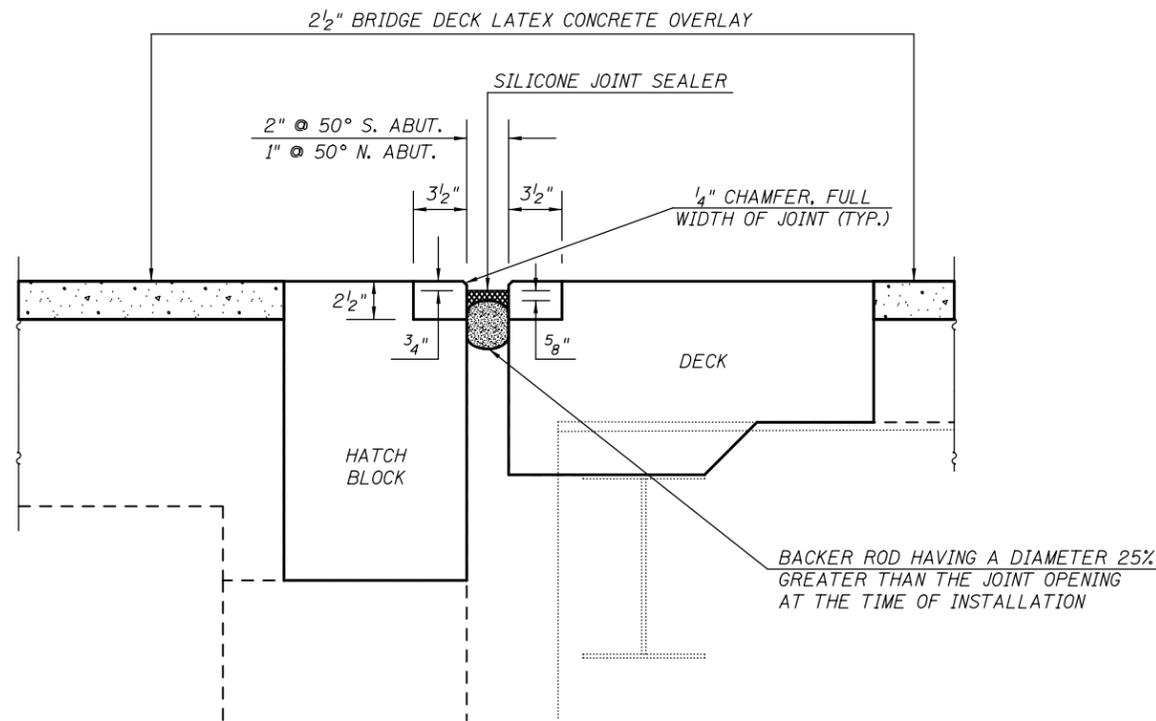
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D46	



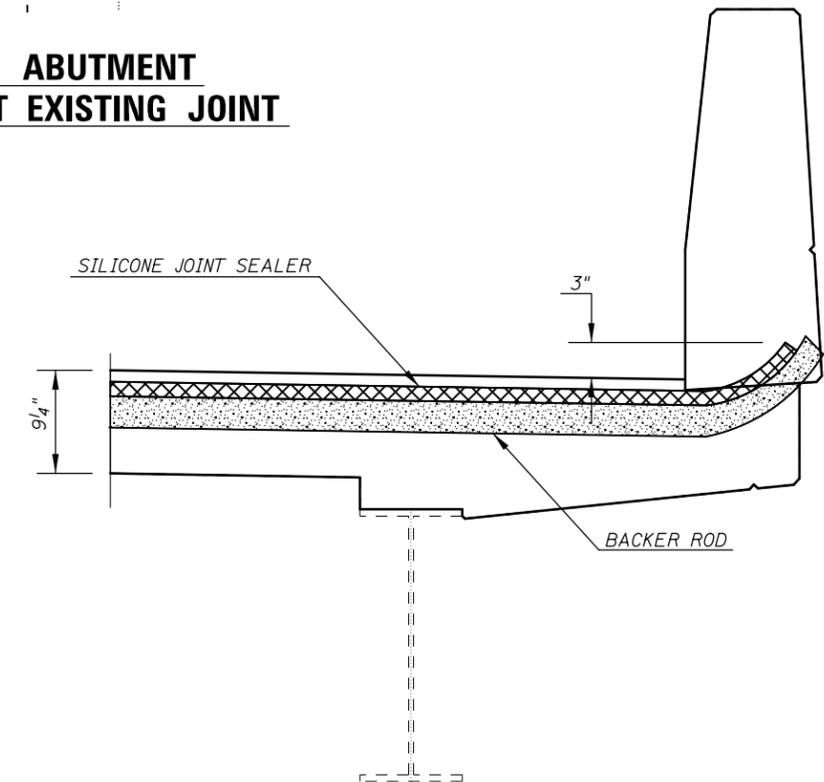
**SOUTH ABUTMENT
SECTION AT EXISTING JOINT**



**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

MODEL: \\MODELNAME
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 DRAWN BY: \\DRAWNBY
 CHECKED BY: \\CHECKEDBY
 DATE: \\DATE

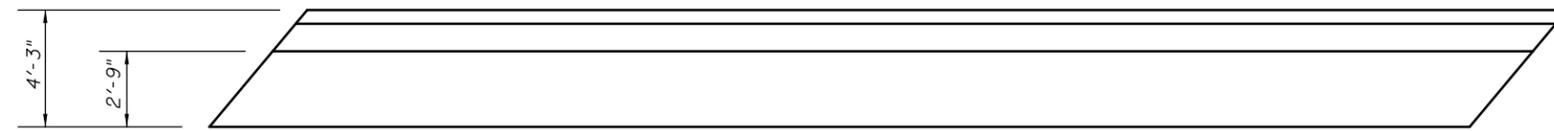
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

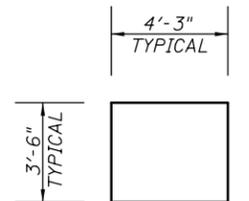
**JOINT REPLACEMENT DETAIL
S.N. 074-0082**

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

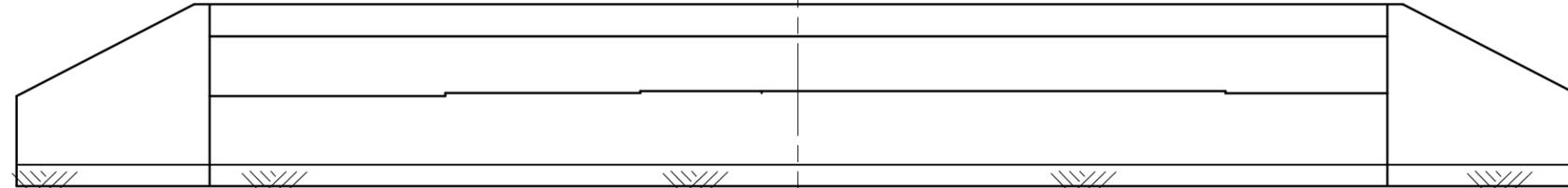
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760	125BR-1	PIATT	36	16
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



PLAN - NORTH ABUTMENT



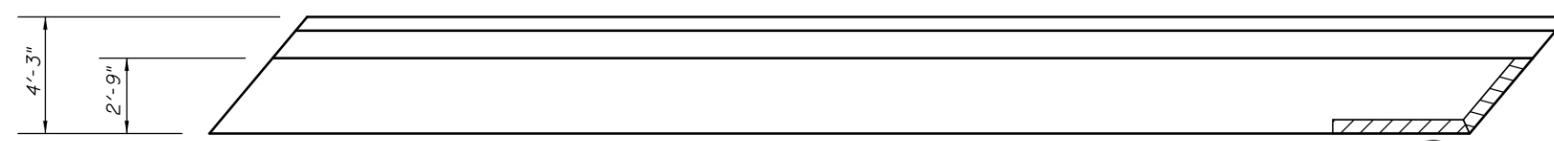
CAP END



ELEVATION - NORTH ABUTMENT



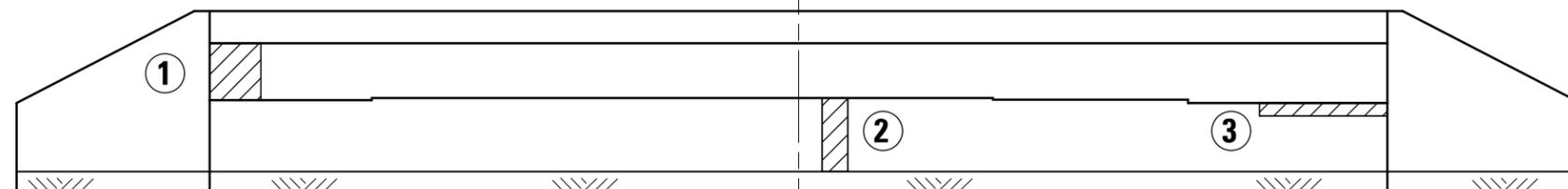
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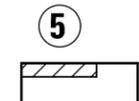
PLAN - SOUTH ABUTMENT



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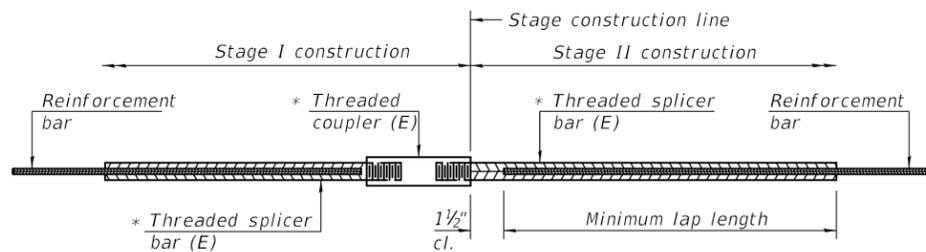
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PLOT DATE = 11/27/2018	CHECKED - TJB	REVISED -
	DATE -	REVISED -

**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	

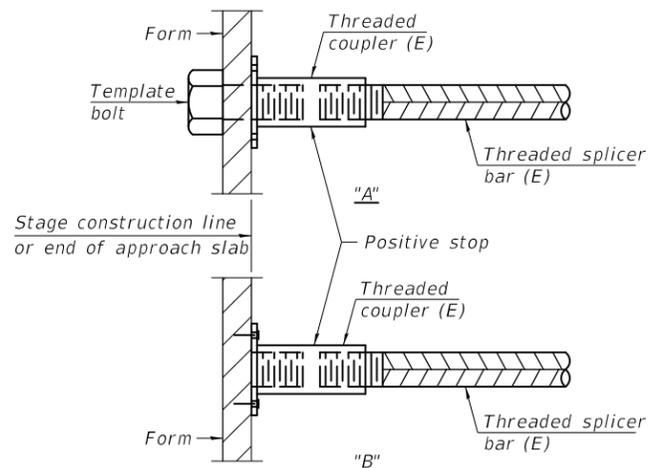


STANDARD BAR SPLICER ASSEMBLY

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

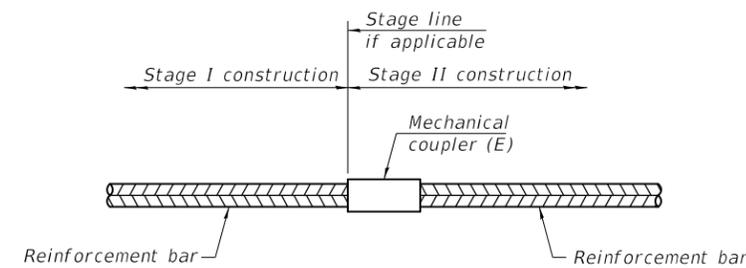
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

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



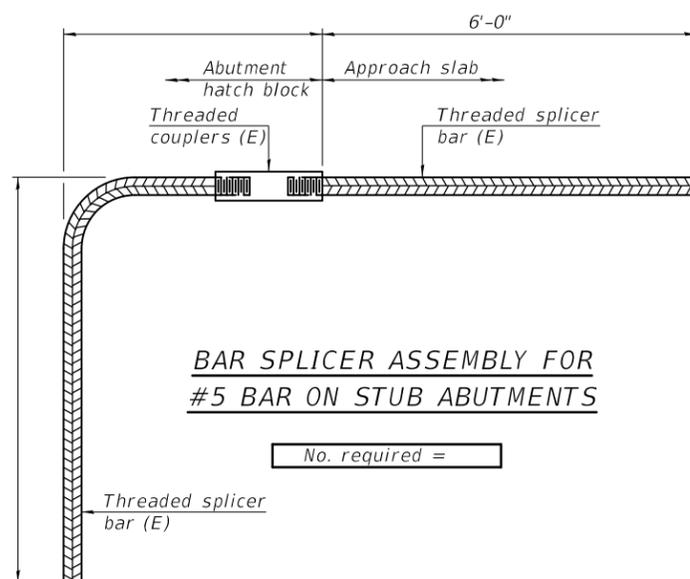
INSTALLATION AND SETTING METHODS

"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.

MODEL: \\MODELNAME
FILE: \\NAME: \\PROJECTS\0570\046\CADD\DATA\CAD\sheet\0570D46_sht_barsplice_plans.dgn

BSD-1

2-17-2017

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

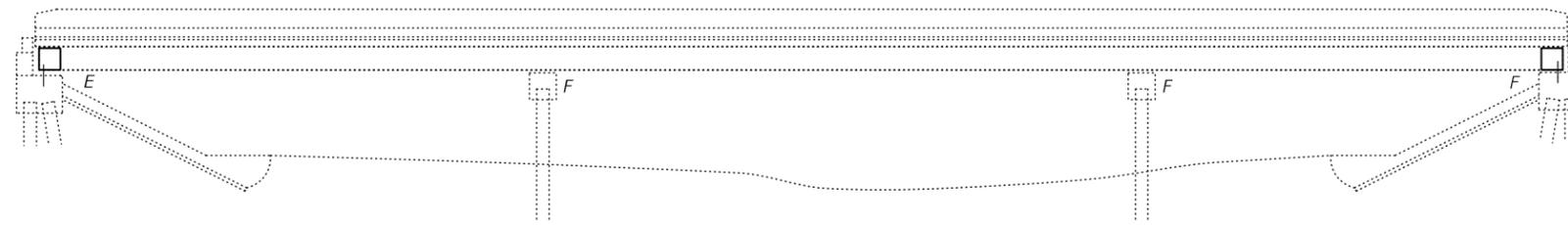
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall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

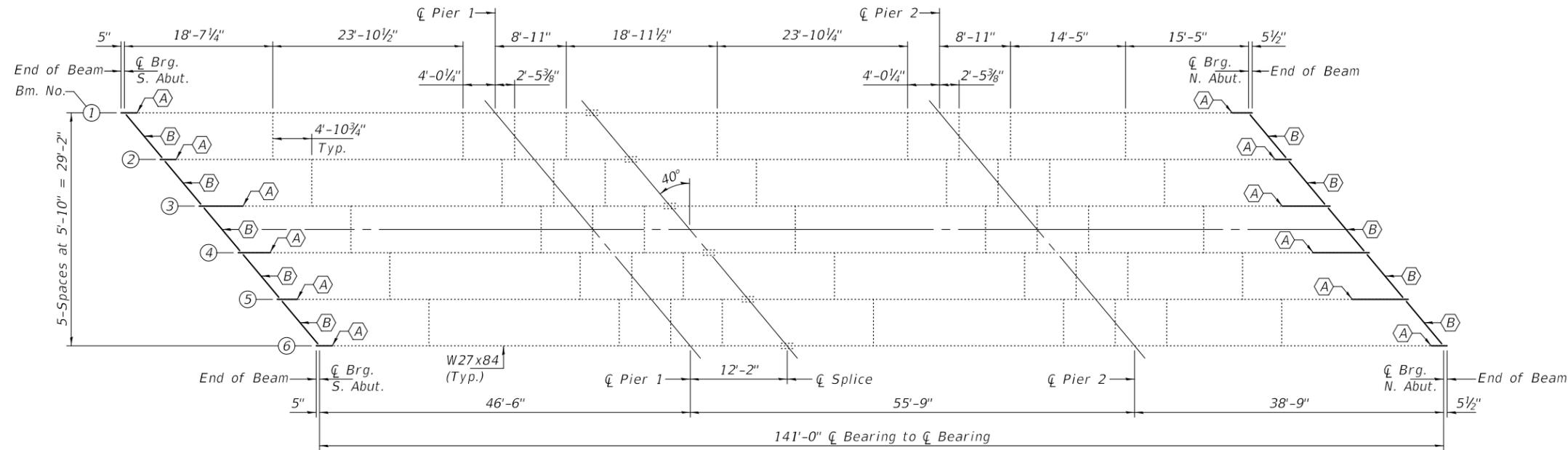
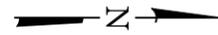
All new Structural Steel and bearing assemblies shall be hot-dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel."

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

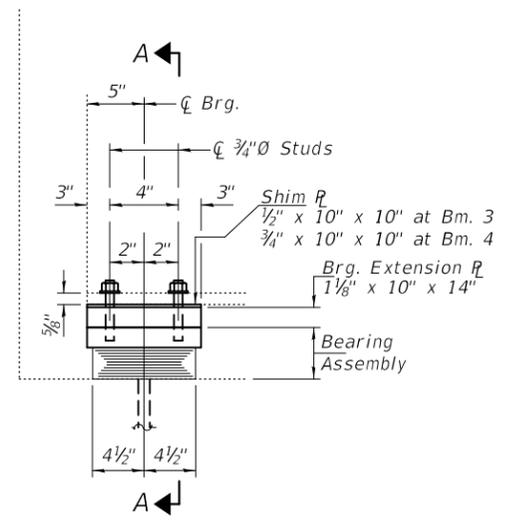
- (A) - Beam End Repair
- (B) - End Diaphragm Removal & Replacement
- (C) - Remove & Replace Existing Fixed Bearings at N. Abut.
- (D) - Remove & Replace Existing Elastomeric Bearings at S. Abut.

BILL OF MATERIAL

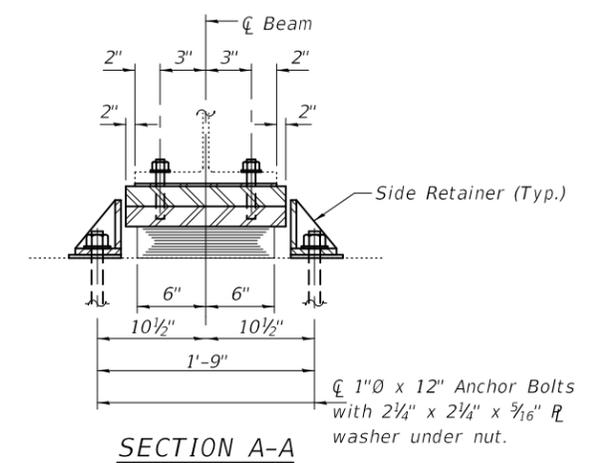
ITEM	UNIT	QUANTITY
Structural Steel Removal	Pound	3660
Furnishing & Erecting Structural Steel	Pound	4610
Structural Steel Repair	Pound	4280
Jack & Remove Existing Bearings	Each	12
Elastomeric Bearing Assembly, Type I	Each	6
Anchor Bolts, 1"Ø	Each	24
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Expires: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

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



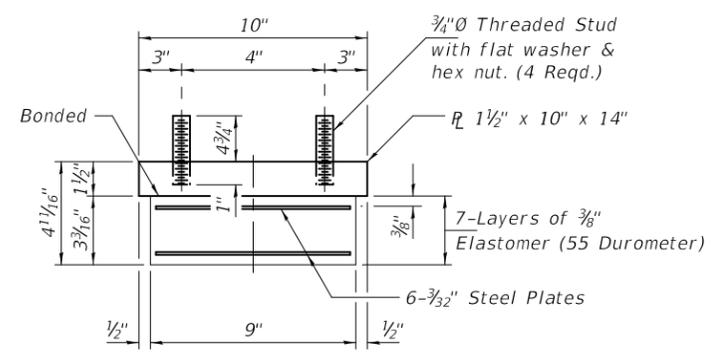
ELEVATION AT SOUTH ABUTMENT



SECTION A-A

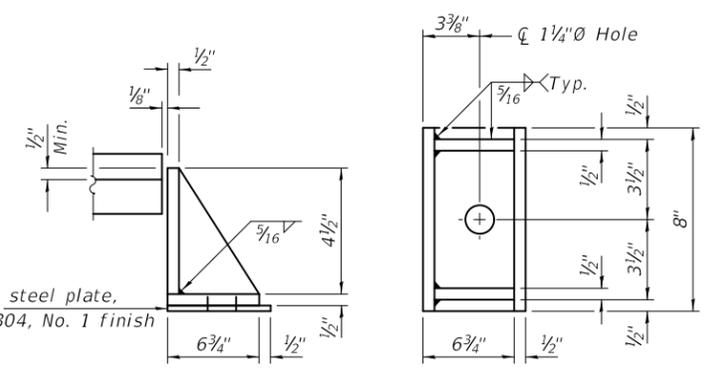
TYPE I ELASTOMERIC EXP. BRG.

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.



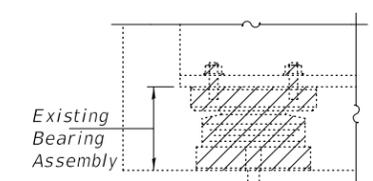
SIDE RETAINER

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

BEAM REACTIONS

R ₂	(K)	16.3
R ₄	(K)	29.0
Imp.	(K)	8.4
R (Total)	(K)	53.7

Notes:
Diaphragm removal and reinstallation 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.



Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

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"Ø	Each	12

BEAM REACTIONS

R _∅	(K)	12.8
R _⊥	(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.

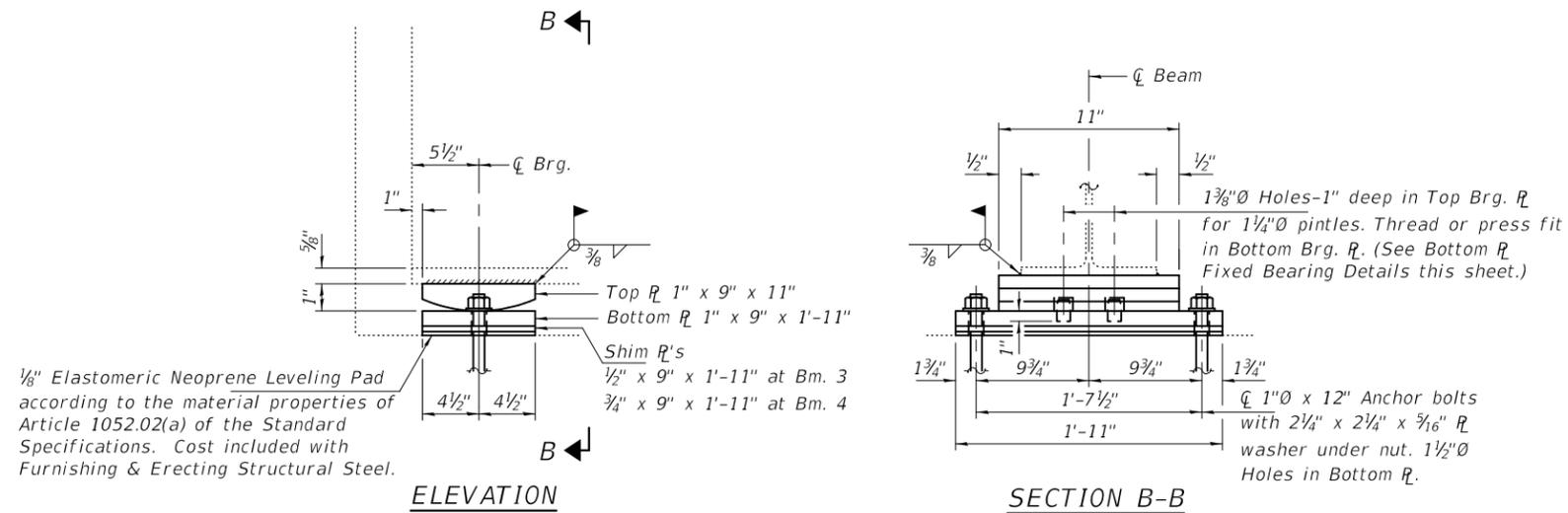
New shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

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_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

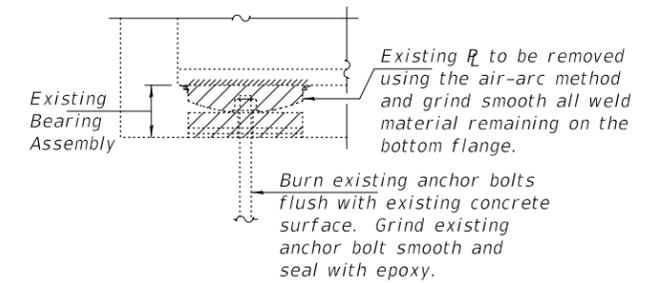
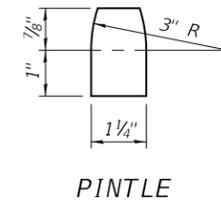
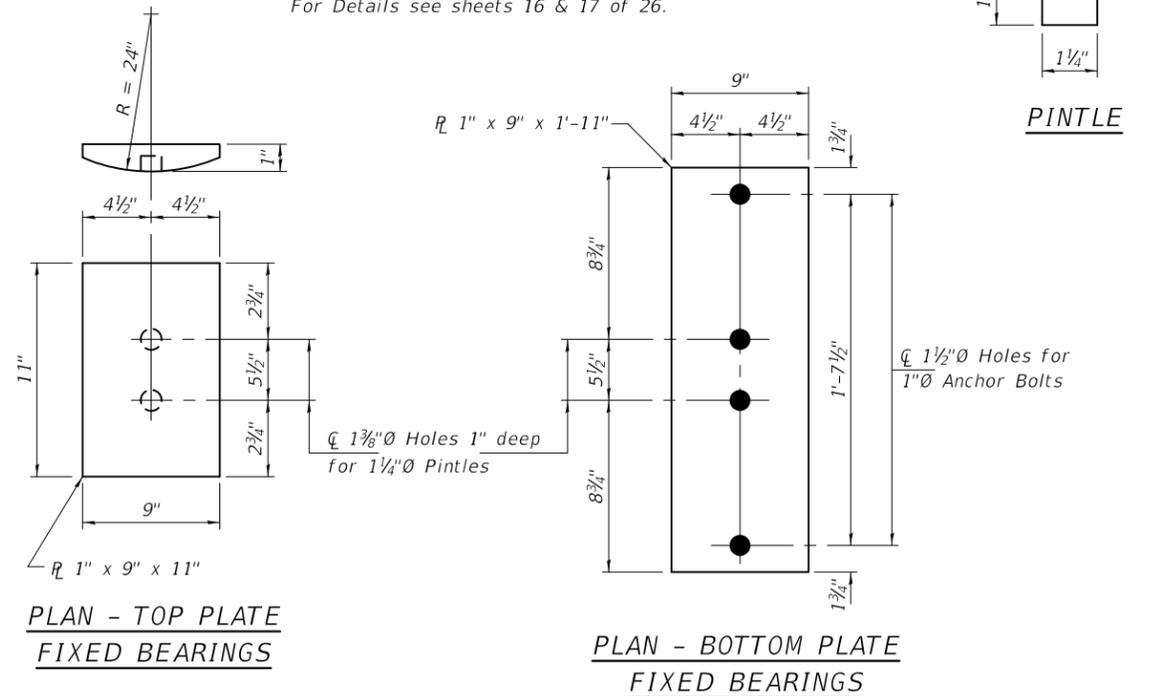
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.



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 R '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"∅	Each	12

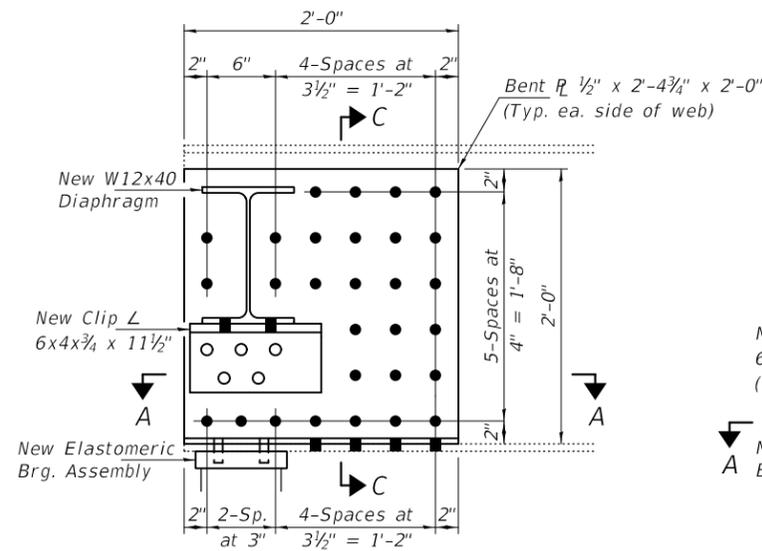
DESIGNED - HSS	EXAMINED - <i>Timothy A. D... ENGINEER OF STRUCTURAL SERVICES</i>	DATE - JANUARY 23, 2019
CHECKED - JOV	PASSED - <i>Carl... ENGINEER OF BRIDGES AND STRUCTURES</i>	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - HSS JOV		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

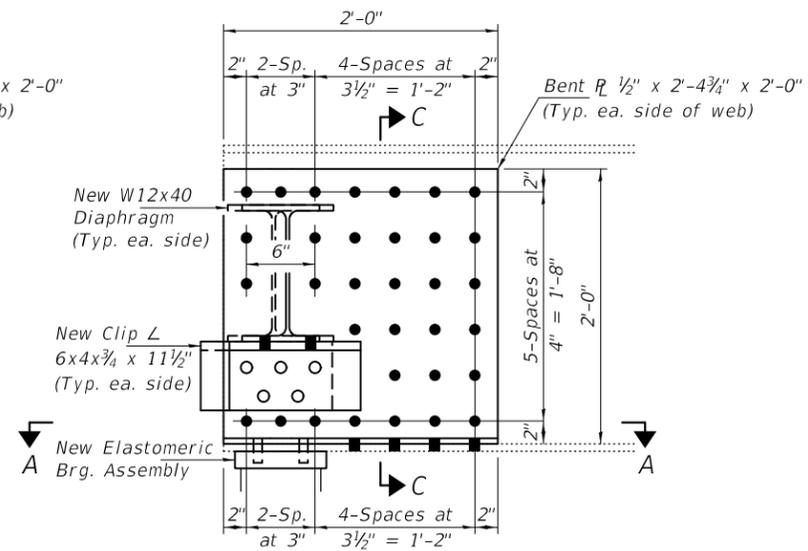
**BEARING REPLACEMENT DETAILS AT N. ABUT.
SN 074-0082**

SHEET 13 OF 26 SHEETS

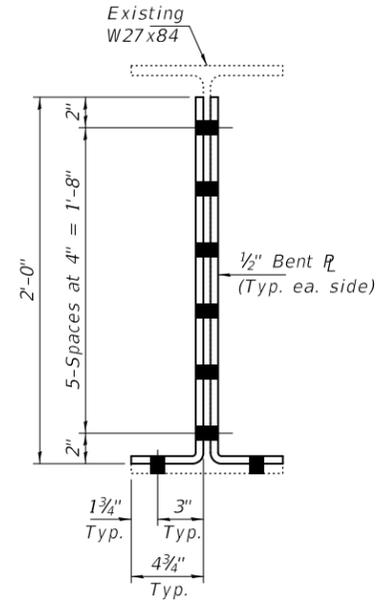
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	21
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



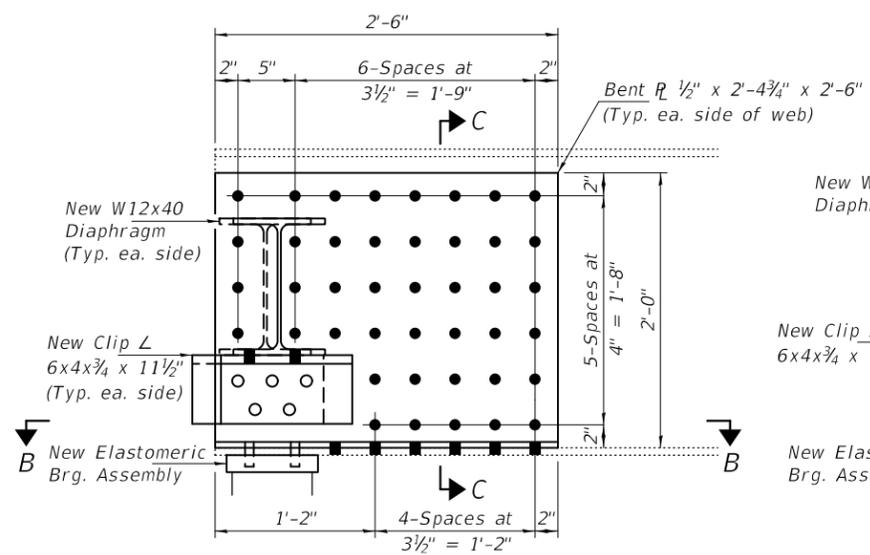
REPAIR DETAIL FOR BEAM 1 AT SOUTH ABUT.
(Looking West)



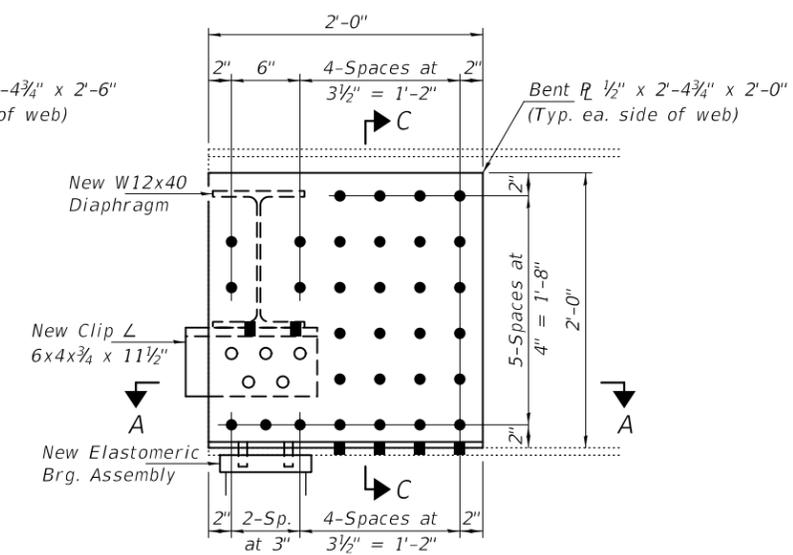
REPAIR DETAIL FOR BEAM 2 AT SOUTH ABUT.
(Looking West)



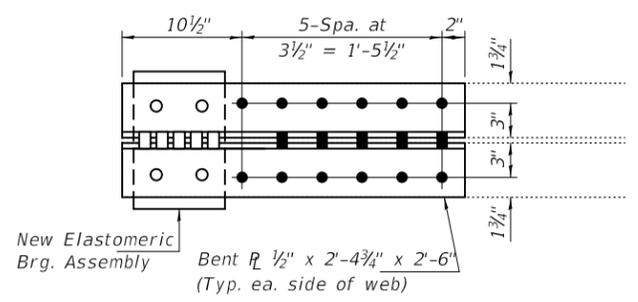
SECTION C-C



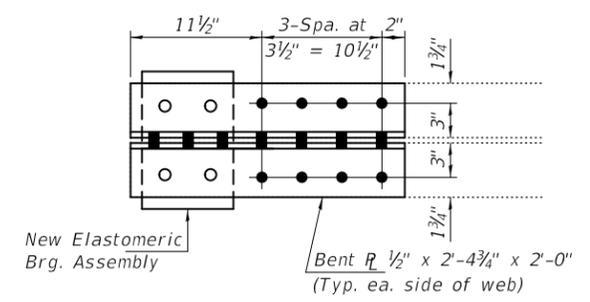
REPAIR DETAIL FOR BEAM 5 AT SOUTH ABUT.
(Looking West)



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



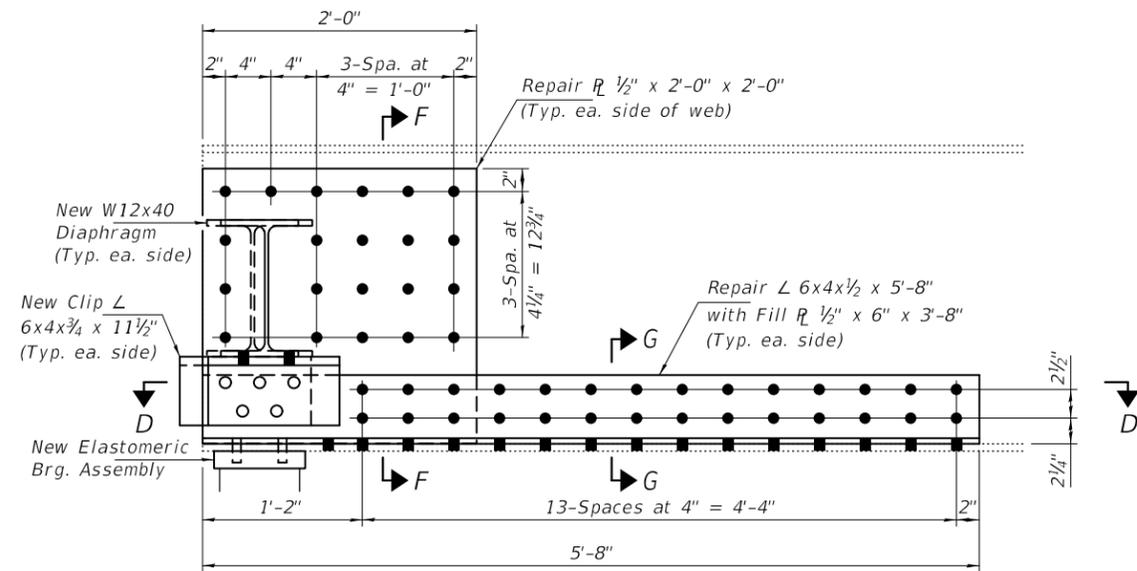
SECTION B-B



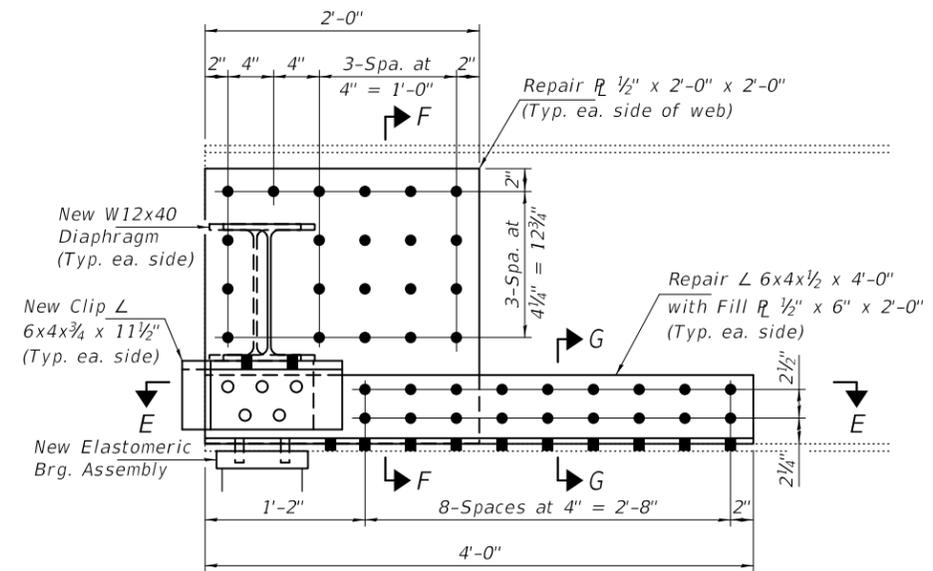
SECTION A-A

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

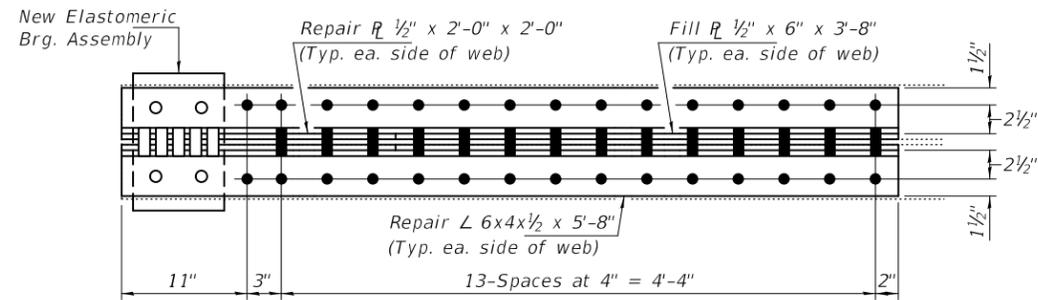
DESIGNED - HSS	EXAMINED	DATE - JANUARY 23, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEAM END REPAIR DETAILS AT SOUTH ABUTMENT SN 074-0082	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JOV	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	REVIS			760	125BR-1	PIATT	36	22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



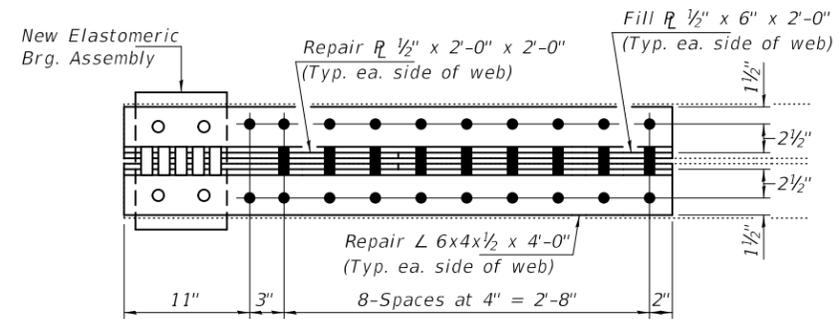
REPAIR DETAIL FOR BEAM 3 AT SOUTH ABUT.
(Looking West)



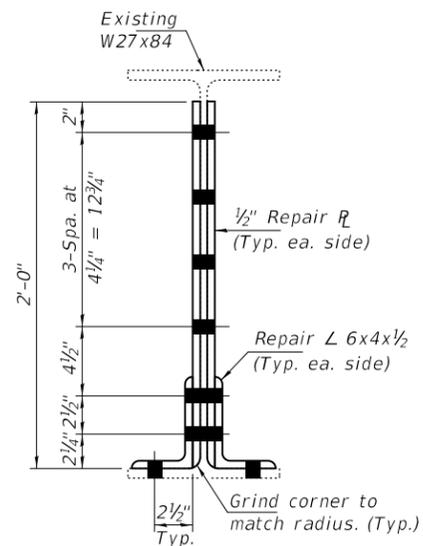
REPAIR DETAIL FOR BEAM 4 AT SOUTH ABUT.
(Looking West)



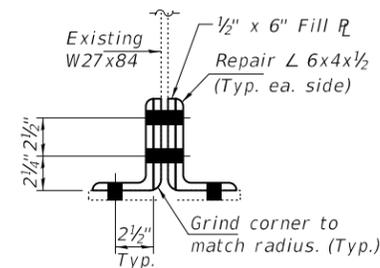
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G

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

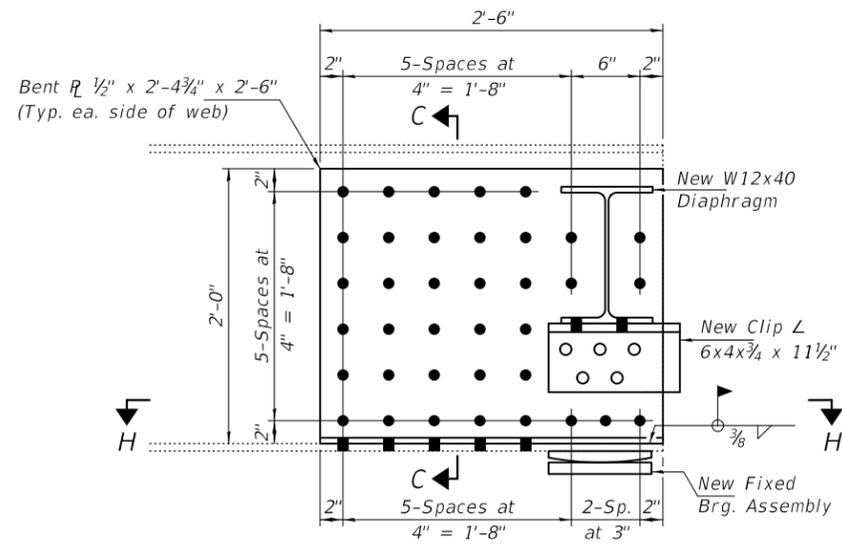
DESIGNED - HSS	EXAMINED	DATE - JANUARY 23, 2019
CHECKED - JOV	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	REVISED -
DRAWN - STEFFEN	PASSED	REVISED -
CHECKED - HSS JOV	<i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

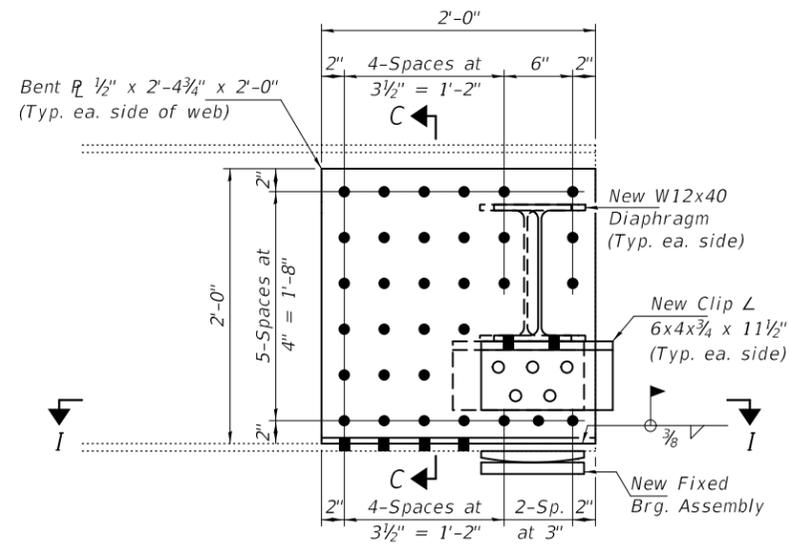
BEAM END REPAIR DETAILS AT SOUTH ABUTMENT
SN 074-0082

SHEET 15 OF 26 SHEETS

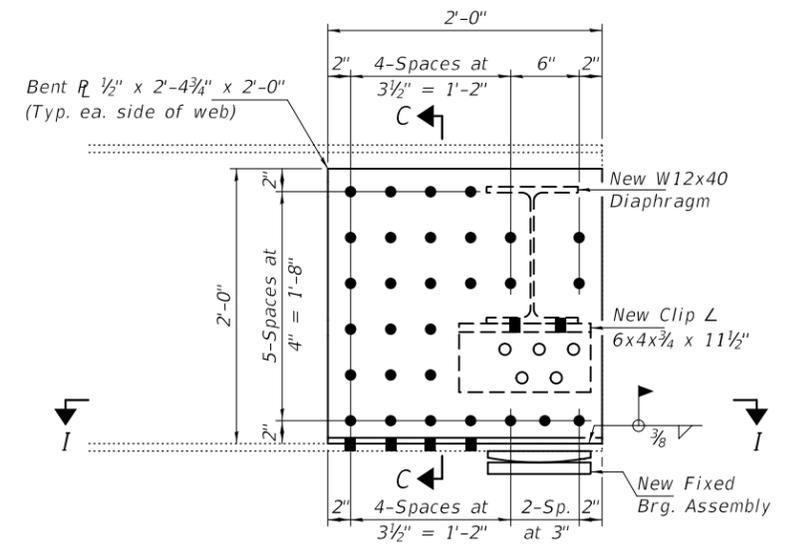
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	23
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



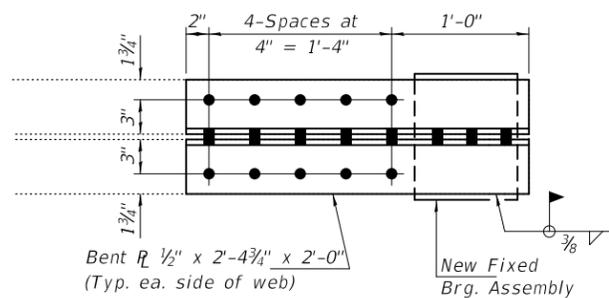
REPAIR DETAIL FOR BEAM 1 AT NORTH ABUT.
(Looking West)



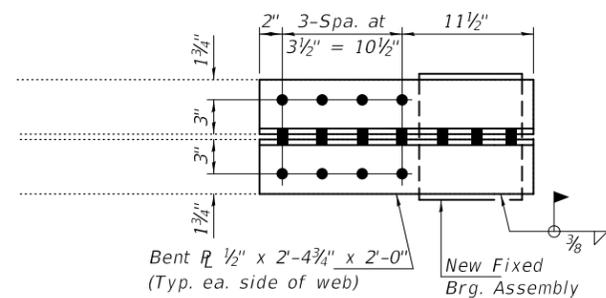
REPAIR DETAIL FOR BEAM 2 AT NORTH ABUT.
(Looking West)



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.

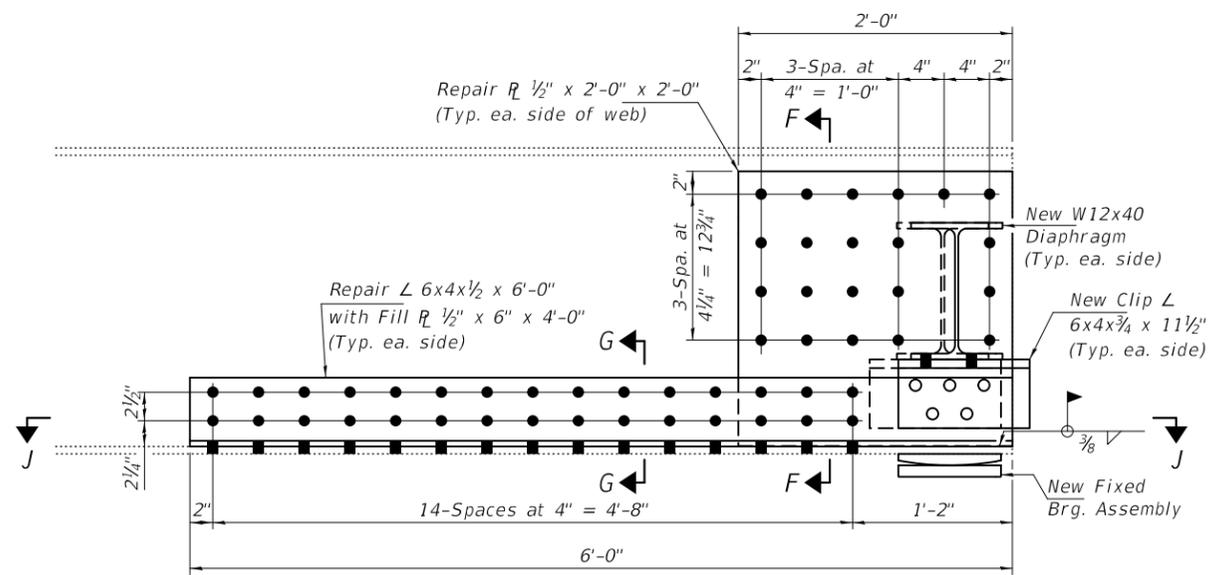
DESIGNED - HSS	EXAMINED	DATE - JANUARY 23, 2019
CHECKED - JOV	<i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED	REVISED -
CHECKED - HSS JOV	<i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

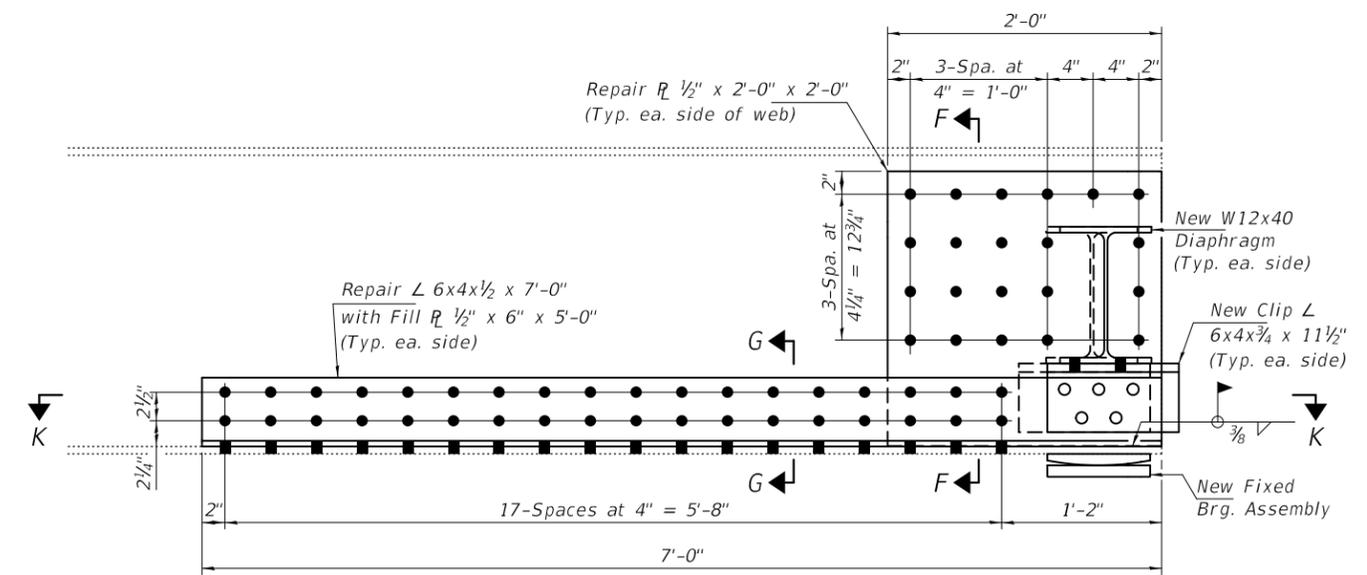
BEAM END REPAIR DETAILS AT NORTH ABUTMENT
SN 074-0082

SHEET 16 OF 26 SHEETS

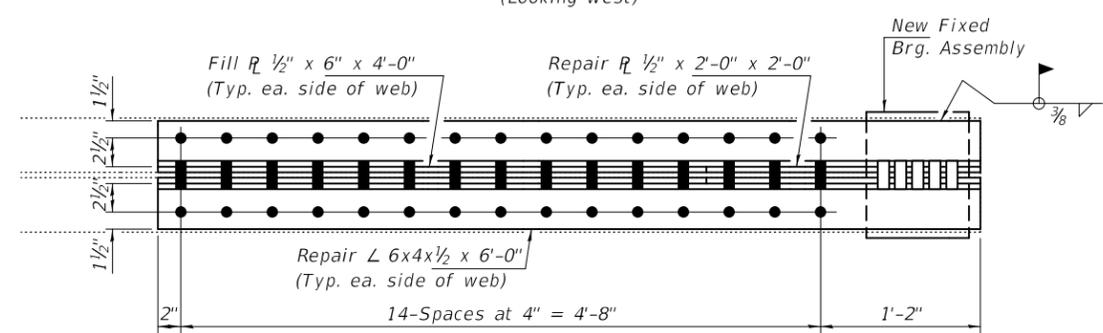
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	24
CONTRACT NO. 70D46				
ILLINOIS FED. AID PROJECT				



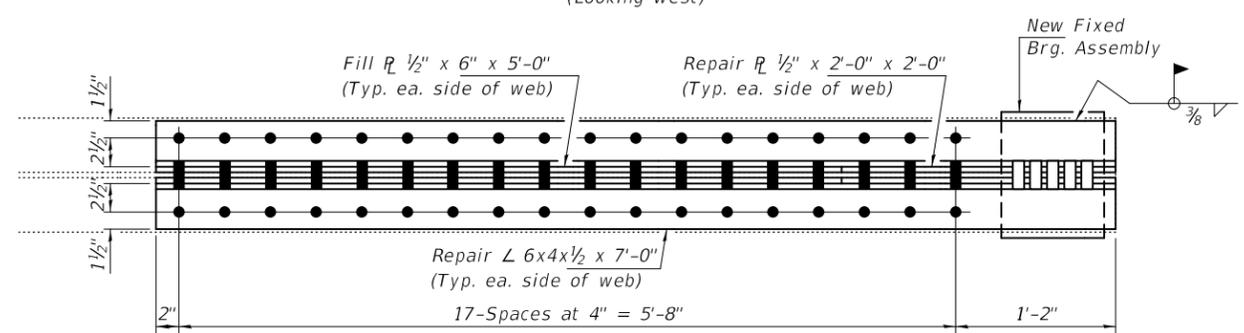
REPAIR DETAIL FOR BEAM 3 AT NORTH ABUT.
(Looking West)



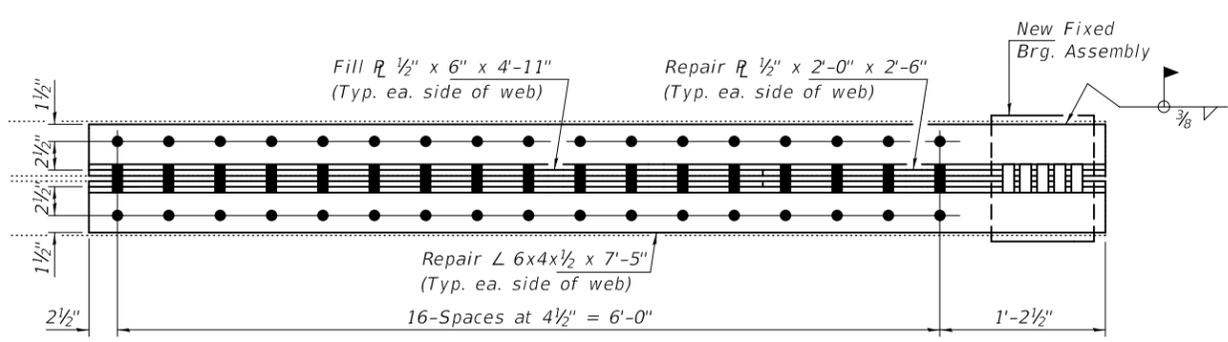
REPAIR DETAIL FOR BEAM 4 AT NORTH ABUT.
(Looking West)



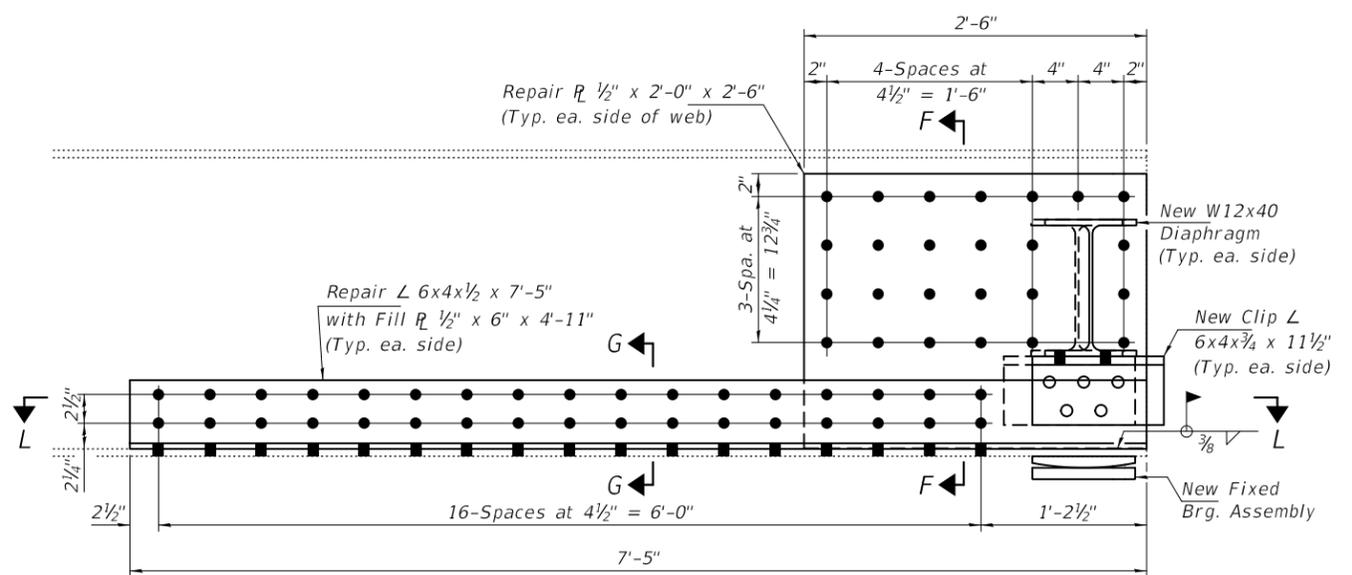
SECTION J-J



SECTION K-K



SECTION L-L

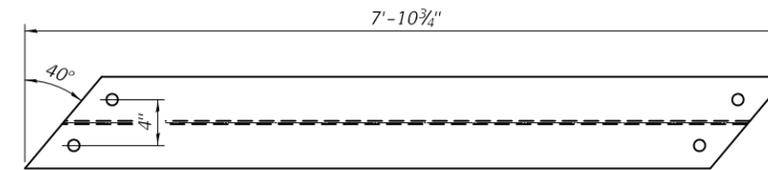
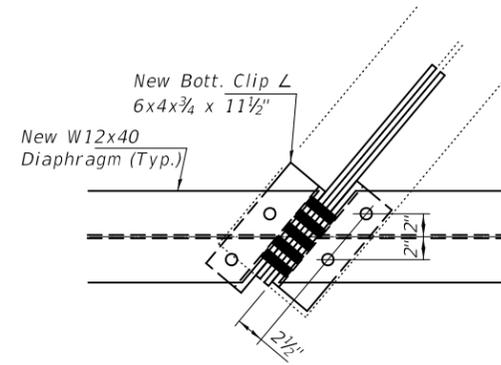


REPAIR DETAIL FOR BEAM 5 AT NORTH ABUT.
(Looking West)

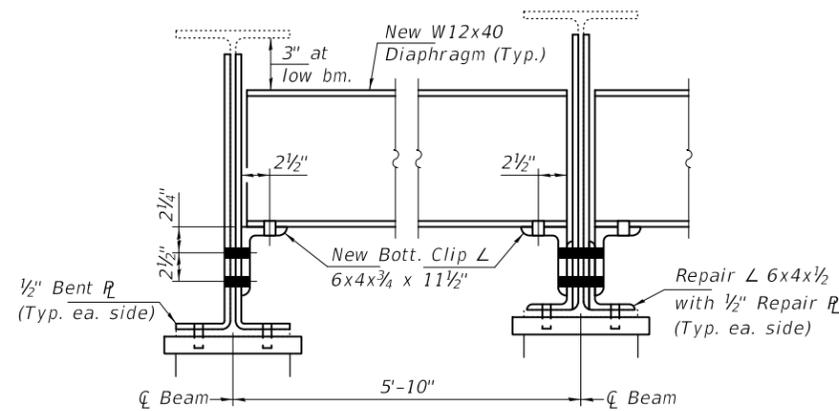
Notes:
For Sections F-F & G-G see sheet 15 of 26.
All web repairs on this sheet included
with Structural Steel Repairs.

DESIGNED - HSS	EXAMINED - <i>Timothy A. Dredger</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 23, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEAM END REPAIR DETAILS AT NORTH ABUTMENT SN 074-0082	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - JOV	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			760	125BR-1	PIATT	36	25	
DRAWN - STEFFEN		REVISED -			CONTRACT NO. 70D46					
CHECKED - HSS JOV					ILLINOIS FED. AID PROJECT					

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.

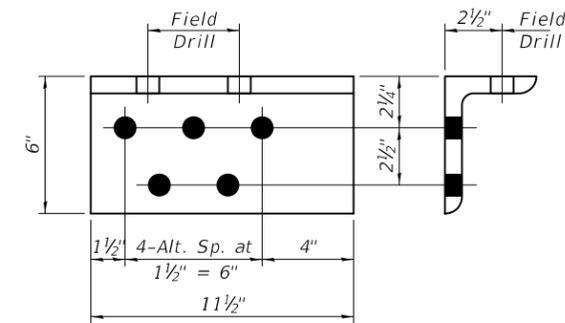


DIAPHRAGM DETAILS
 W12x40 x 7'-10 $\frac{3}{4}$ " (10-Required)



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	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 Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

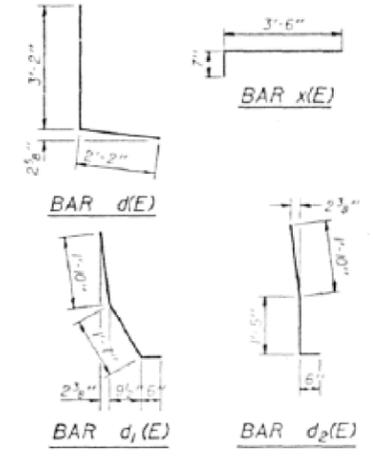
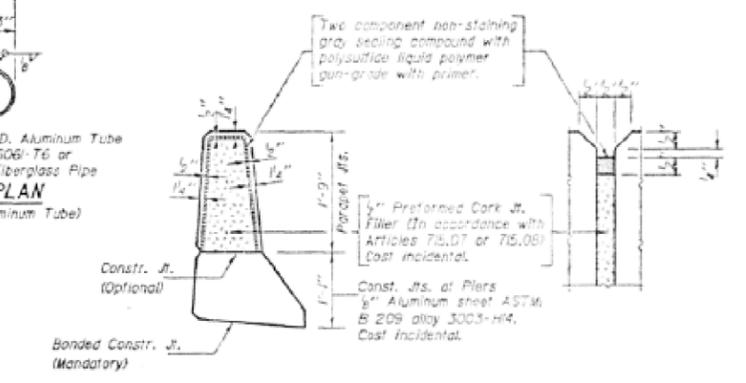
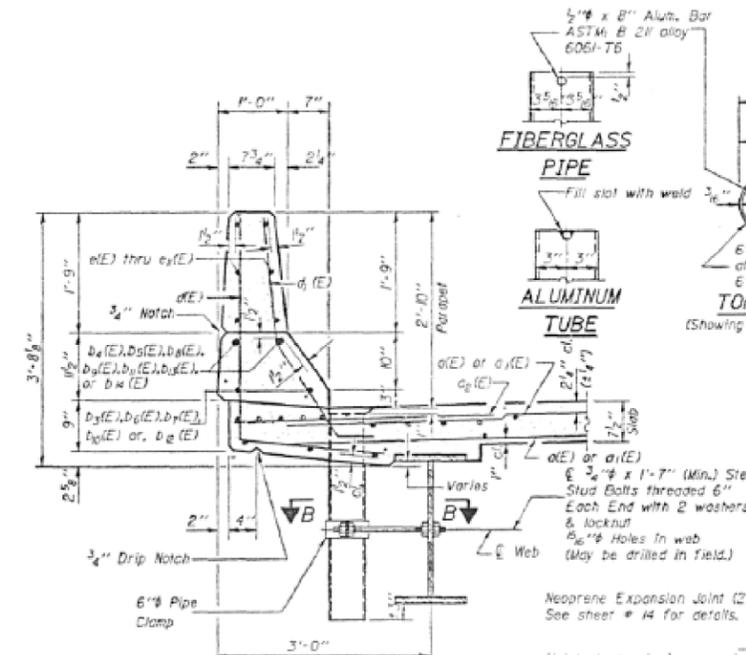
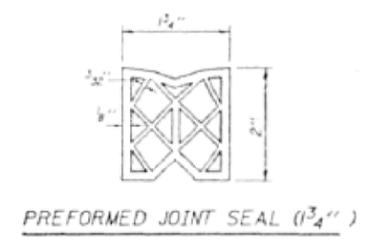
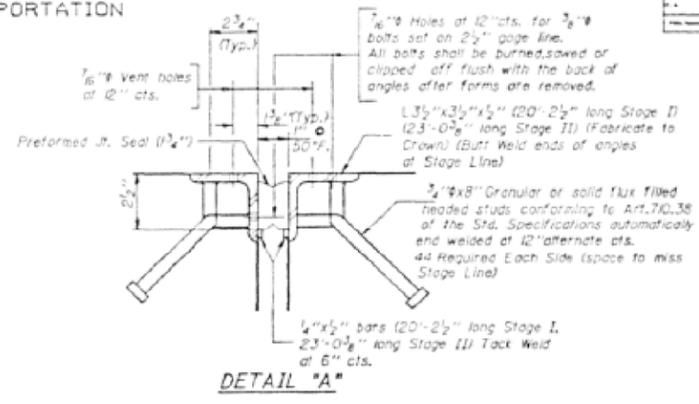
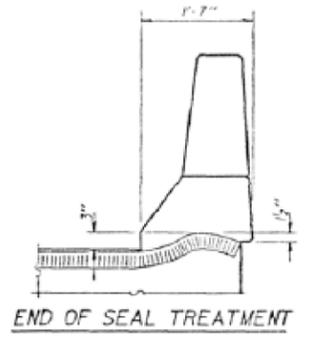
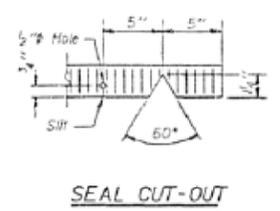
DIAPHRAGM REPLACEMENT DETAILS
 SN 074-0082

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

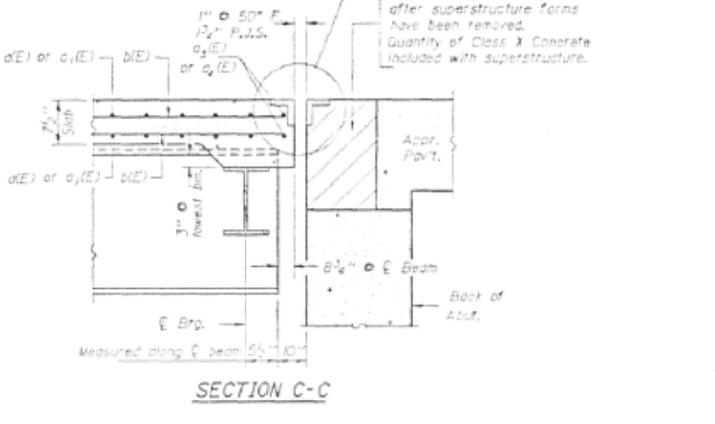
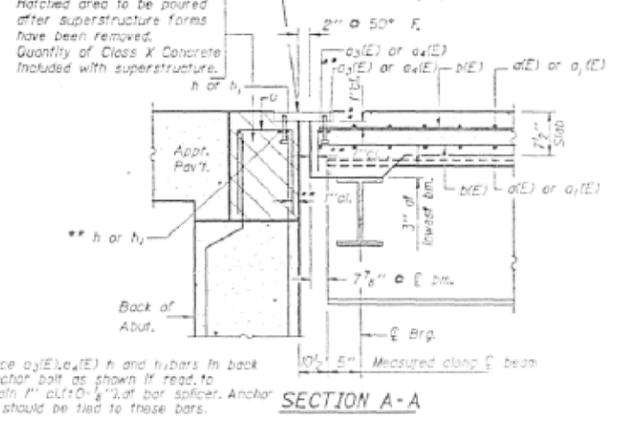
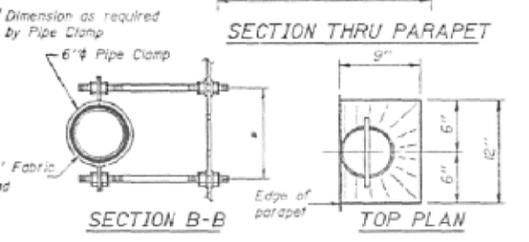
DATE	1/15	55	20	SHEET NO. 9
				20 SHEETS



**SUPERSTRUCTURE
BILL OF MATERIAL**

BAR	Qty	Size	Length	Shape
x(E)	40	#5	15'-5"	
d1(E)	40	#5	17'-7"	
d2(E)	230	#6	4'-0"	
d3(E)	4	#5	23'-0"	
d4(E)	4	#5	20'-0"	
d5(E)	370	#5	30'-4"	
d6(E)	34	#6	18'-1"	
d7(E)	34	#6	16'-7"	
d8(E)	4	#5	21'-9"	
d9(E)	6	#8	23'-0"	
d10(E)	6	#8	7'-0"	
d11(E)	8	#5	7'-0"	
d12(E)	12	#5	27'-11"	
d13(E)	1	#8	30'-6"	
d14(E)	1	#8	39'-8"	
d15(E)	8	#5	18'-3"	
d16(E)	8	#6	6'-4"	
d17(E)	6	#5	6'-4"	
d18(E)	1	#8	33'-6"	
d19(E)	1	#8	34'-4"	
d20(E)	288	#4	5'-4"	
d21(E)	288	#5	3'-11"	
d22(E)	6	#5	3'-8"	
d23(E)	9	#4	19'-8"	
d24(E)	3	#4	21'-0"	
d25(E)	9	#4	20'-1"	
d26(E)	24	#4	7'-0"	
d27(E)	36	#4	15'-8"	
d28(E)	24	#4	6'-4"	
d29(E)	6	#4	16'-2"	
d30(E)	3	#4	15'-6"	
d31(E)	9	#4	16'-7"	
d32(E)	3	#4	17'-6"	
d33(E)	3	#4	18'-10"	
d34(E)	3	#4	19'-5"	
d35(E)	30	#5	4'-1"	
Reinforcement Bars (Epoxy Coated)	Lbs.		34670	
Class X Concrete	Cu. Yds.		613.5	

Reinforcement bars designated (E) shall be epoxy coated.
Work this sheet with sheets #7 & #8



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

Notes:
The exterior surfaces of the Floor Drain shall be painted with a dark maroon vinyl enamel coat as specified for Structural Steel. The vinyl enamel coat may be applied in the shop with spot painting only in the field. The exterior surface of the Aluminum tube shall be cleaned and given a washcoat pretreatment in accordance with Steel Structural Painting Council's Spec. SSPC-SP1 & SSPC-PAINT 27 prior to painting. Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.

Hatched area to be poured after superstructure forms have been removed. Quantity of Class X Concrete included with superstructure.

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

MODEL: S:\MODEL\NAME: FILE NAME: S:\ILLINOIS\BIDDING\TEC\Illinois.gov\FWD\DOT\Documents\BIDD\Office\BIDD\TDC\CAD\DATA\CAD\BIDD\DESIGN\70D46_sht_bldg_plans.dgn

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED -</td> <td>REVISED -</td>	CHECKED -	REVISED -
PLOT DATE = 11/27/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

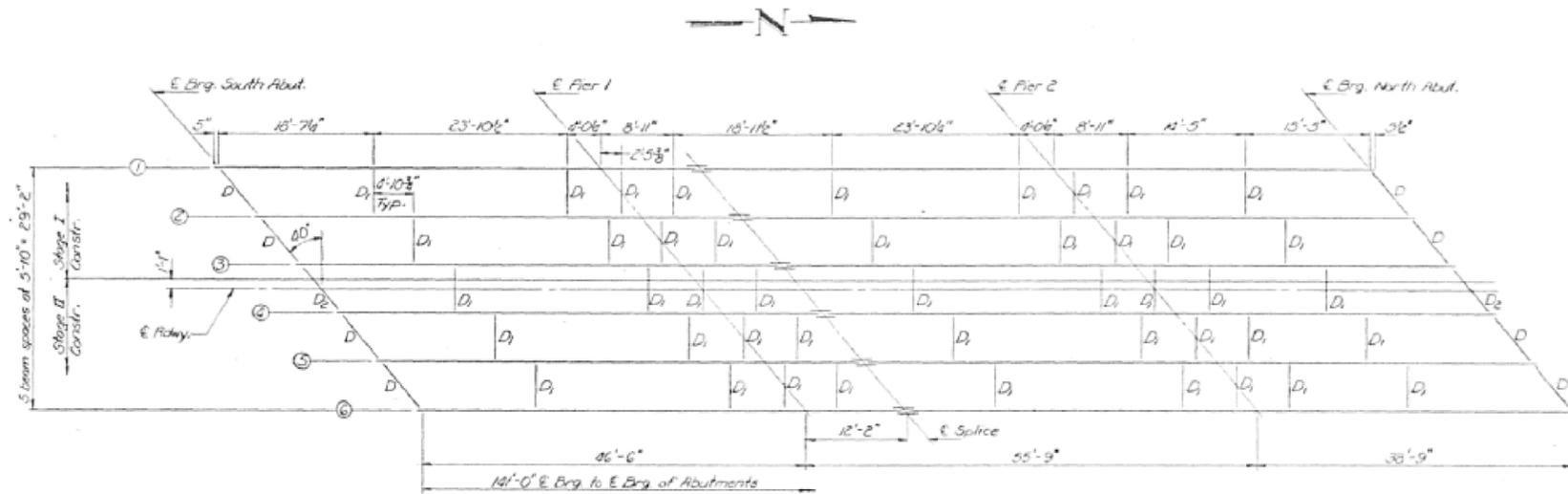
AS-BUILT PLANS FOR INFORMATION ONLY	
SCALE:	SHEET 22 OF 26 SHEETS STA. TO STA.

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

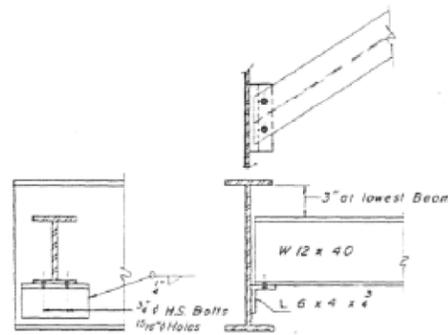
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NO.	DATE	BY	REVISION
115	56		

SHEET NO. 10
20 SHEETS

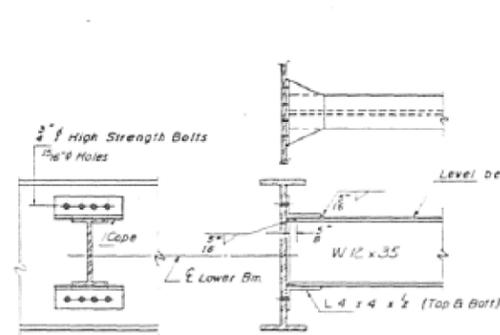


FRAMING PLAN
All beams are W12 x 35



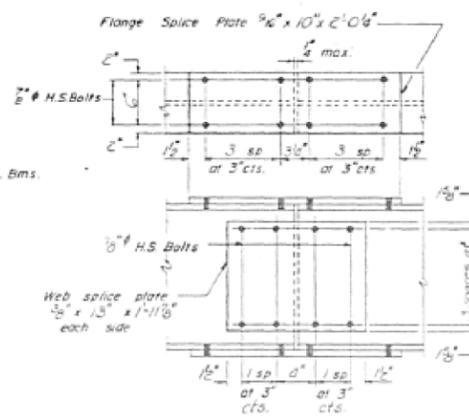
DIAPHRAGM D

6 Required



DIAPHRAGM D1

45 Required



SPLICE

Notes: Two hardened washers shall be required over all 1 1/2" 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
FAP RT 760 SEC 125BR
PIATT COUNTY
STATION 1002+62.75

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

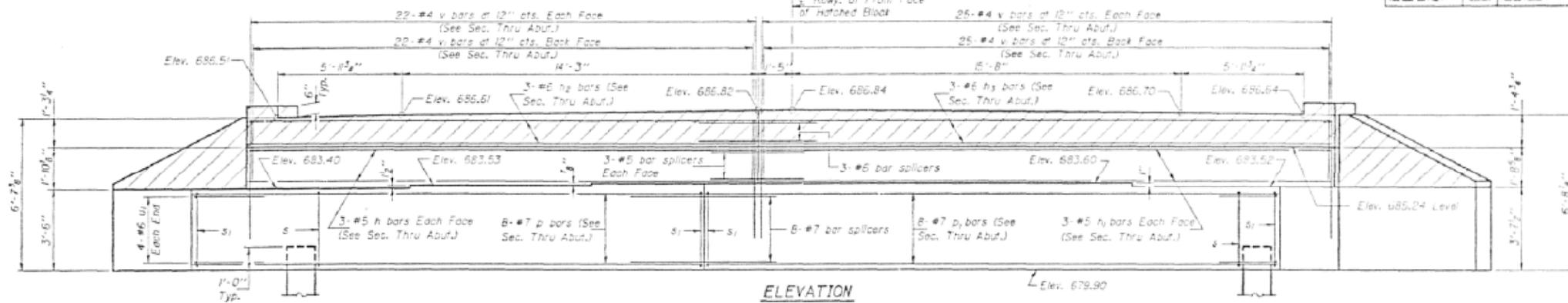
USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/27/2018	DATE -	REVISED -

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				

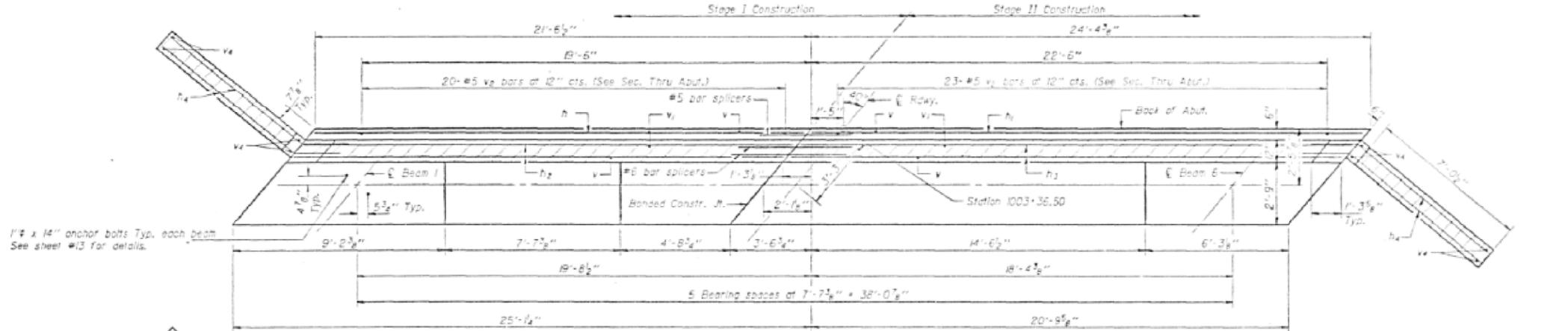
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHECKED	NO.	SHEET NO. 15
				20 SHEETS

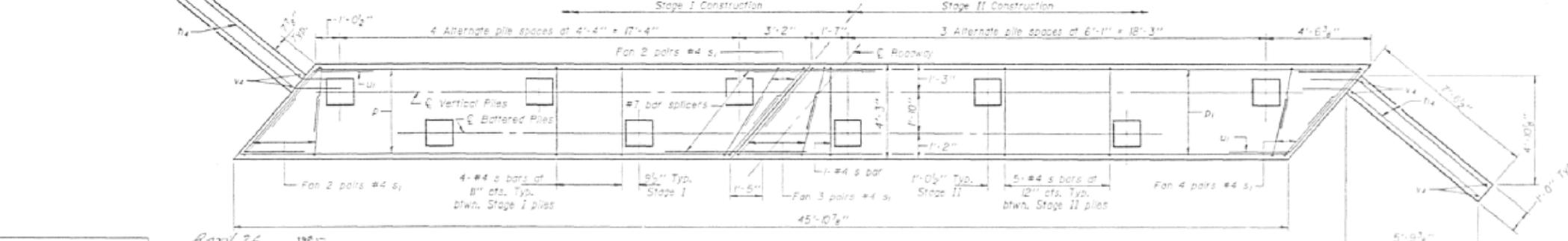


ELEVATION

(Looking North)



TOP VIEW



PLAN - PILE CAP

Notes: Hatched area to be poured after superstructure is in place. Quantity of Class X Concrete included with superstructure. Four steps monolithically with cap. All edges shall have standard 3/4" chamfers except as noted. Work this sheet with sheet #17. For details of bar splicers see sheet #5. Space reinforcement in cap to miss anchor bolts.

NORTH ABUTMENT
F.A.P. RT. 760 SEC. 125BR
PIATT COUNTY
STATION 1002+62.75

DESIGNED	Mary Blexdorf	EXAMINED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>	PASSED	<i>[Signature]</i>
DRAWN	Joe Sutherland	APPROVED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>		

MODEL: STODEN.MXD FILE NAME: P:\ILLINOIS\BID\DOT\Documents\DOT Office\Drawings\Projects\0570\046\CADD\Drawings\0570D46_sht_brdge_plans.dwg

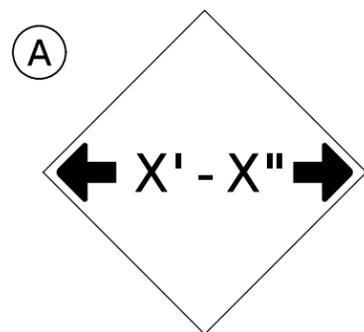
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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/27/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

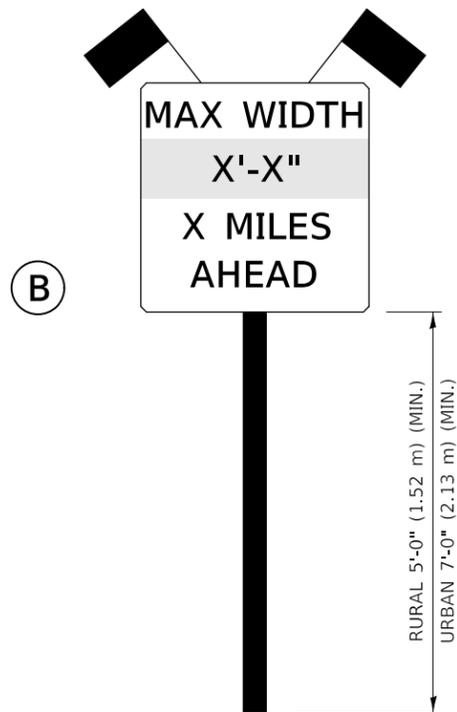
SCALE: SHEET 26 OF 26 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
760	125BR-1	PIATT	36	34
CONTRACT NO. 70D46			ILLINOIS FED. AID PROJECT	

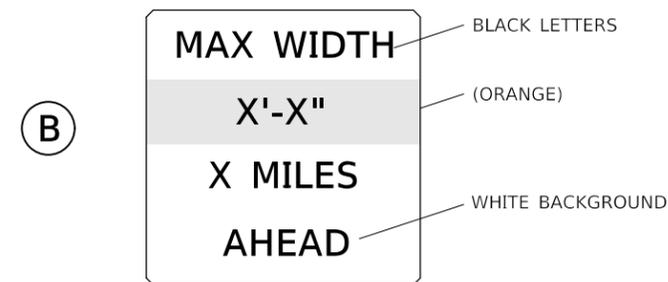


W12-2(O)-48"x48"(1200x1200)

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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USER NAME = shawleres	DESIGNED -	REVISED - 05/08
	DRAWN -	REVISED - 10/08 KJT
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 07/09 KJT
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	

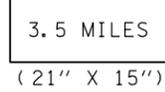
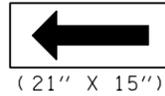
S.N. 074-0082

WIDTH RESTRICTION SIGNINGS FOR IL-48 TRAFFIC

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

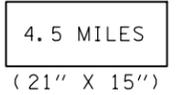
A1 I-72 EASTBOUND EXIT RAMP
ERECT BY LEFT SIDE DO NOT ENTER SIGN
INCLUDE DIRECTION ARROW SIGN (LEFT)

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

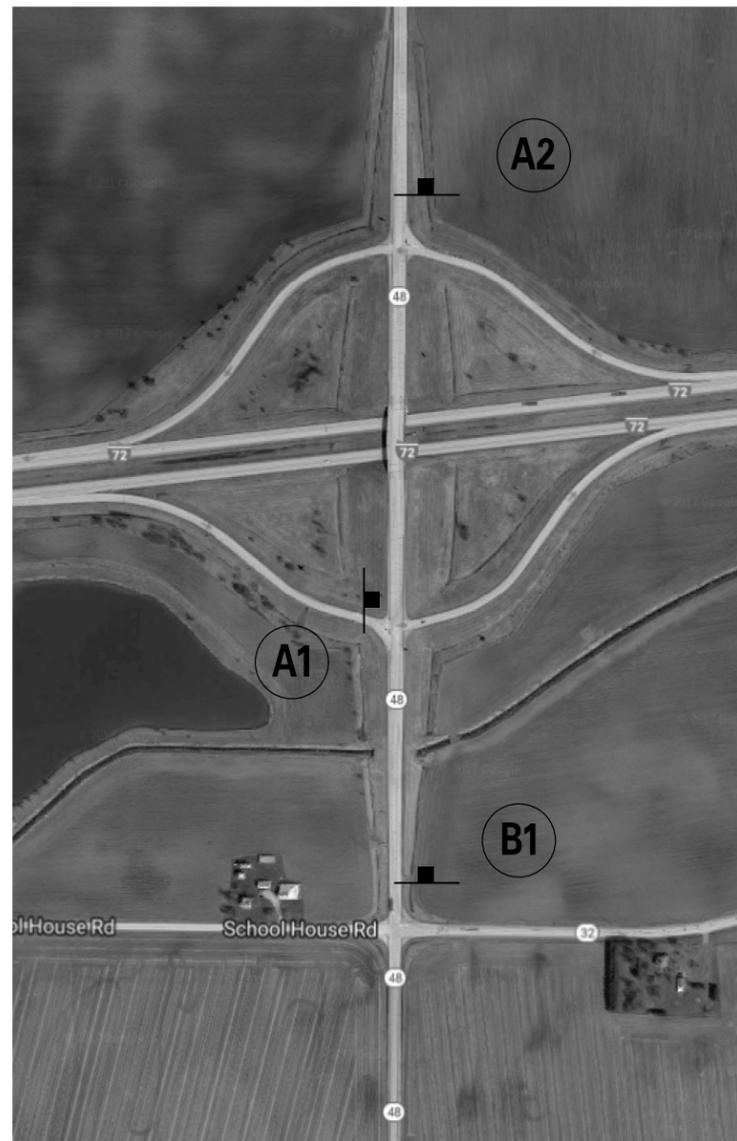


B2 IL-48 SOUTHBOUND
ERECT BY CHAMPAIGN/CLINTON ARROW SIGN
4 MILES AHEAD

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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	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
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				