

December 13, 2017  
STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF ADMINISTRATION  
DIVISION OF PURCHASES BID NO. 7565516  
  
RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
  
RHODE ISLAND CONTRACT NO.2017-CB-070  
  
FEDERAL-AID PROJECT NO. FAP Nos: BRO-472(001), STP-RESF(360)

**Horton Farm Bridge No. 472**

Horton Farm Road Bridge No. 472  
CITY/TOWN OF East Providence  
COUNTY OF PROVIDENCE

**NOTICE TO PROSPECTIVE BIDDERS**

ADDENDUM NO. 5    Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

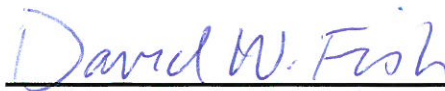
**A. Specifications - Job Specific**

1.    Pages JS-2 thru JS-4  
Remove pages JS-2 thru JS-4 in their entirety and replace with revised pages JS-2(R-1) thru JS-4(R-1) attached to this Addendum No. 5. The Index has been updated.
2.    Pages JS-74 thru JS-81  
Delete pages JS-74 thru JS-81 in their entirety for this Addendum No. 5. Section "ULTRA-HIGH PERFORMANCE CONCRETE (UHPC)" has been removed from the Job Specific Specifications.
3.    Pages JS-92 and JS-93  
Delete pages JS-92 and JS-93 in their entirety for this Addendum No. 5. Section "ELASTOMERIC BEARINGS - LAMINATED" has been removed from the Job Specific Specifications.

**B. Plans**

1.    VOLUME 2 SHEET 15 - NORTH ABUTMENT DEMOLITION  
Remove and replace Sheet 15 in its entirety with Sheet 15(R-1) attached to this Addendum No. 5. This sheet has been revised.
2.    VOLUME 2 SHEET 16 - SOUTH ABUTMENT DEMOLITION  
Remove and replace Sheet 16 in its entirety with Sheet 16(R-1) attached to this Addendum No. 5. This sheet has been revised.

3. VOLUME 2 SHEET 20 - PIER DEMOLITION  
Remove and replace Sheet 20 in its entirety with Sheet 20(R-1) attached to this Addendum No. 5.  
This sheet has been revised.
4. VOLUME 2 SHEET 21 - REHABILITATION DETAILS  
Remove and replace Sheet 21 in its entirety with Sheet 21(R-1) attached to this Addendum No. 5.  
This sheet has been revised.
5. VOLUME 2 SHEET 22(R-1) - NORTH ABUTMENT PLAN AND ELEVATION  
Remove and replace Sheet 22(R-1) in its entirety with Sheet 22(R-2) attached to this Addendum No. 5. This sheet has been revised.
6. VOLUME 2 SHEET 23(R-1) - SOUTH ABUTMENT PLAN AND ELEVATION  
Remove and replace Sheet 23(R-1) in its entirety with Sheet 23(R-2) attached to this Addendum No. 5. This sheet has been revised.
7. VOLUME 2 SHEET 27 - WINGWALL DETAILS SHEET 3 OF 3  
Remove and replace Sheet 27 in its entirety with Sheet 27(R-1) attached to this Addendum No. 5.  
This sheet has been revised.
8. VOLUME 2 SHEET 29 - PIER PLAN AND ELEVATION  
Remove and replace Sheet 29 in its entirety with Sheet 29(R-1) attached to this Addendum No. 5.  
This sheet has been revised.
9. VOLUME 2 SHEET 44 - BEARING DETAILS SHEET 1 OF 3  
Remove and replace Sheet 44 in its entirety with Sheet 44(R-1) attached to this Addendum No. 5.  
This sheet has been revised.
10. VOLUME 2 SHEET 45 - BEARING DETAILS SHEET 2 OF 3  
Remove and replace Sheet 45 in its entirety with Sheet 45(R-1) attached to this Addendum No. 5.  
This sheet has been revised.
11. VOLUME 2 SHEET 46 - BEARING DETAILS SHEET 3 OF 3  
Remove and replace Sheet 46 in its entirety with Sheet 46(R-1) attached to this Addendum No. 5.  
This sheet has been revised.
12. VOLUME 2 SHEET 47 - ROADWAY JOINTS  
Remove and replace Sheet 47 in its entirety with Sheet 47(R-1) attached to this Addendum No. 5.  
This sheet has been revised.
13. VOLUME 2 SHEET 50 - END POST DETAILS  
Remove and replace Sheet 50 in its entirety with Sheet 50(R-1) attached to this Addendum No. 5.  
This sheet has been revised.

  
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RI Department of Transportation  
Administrator, Division of Project Management

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RIC No. 2017-CB-070

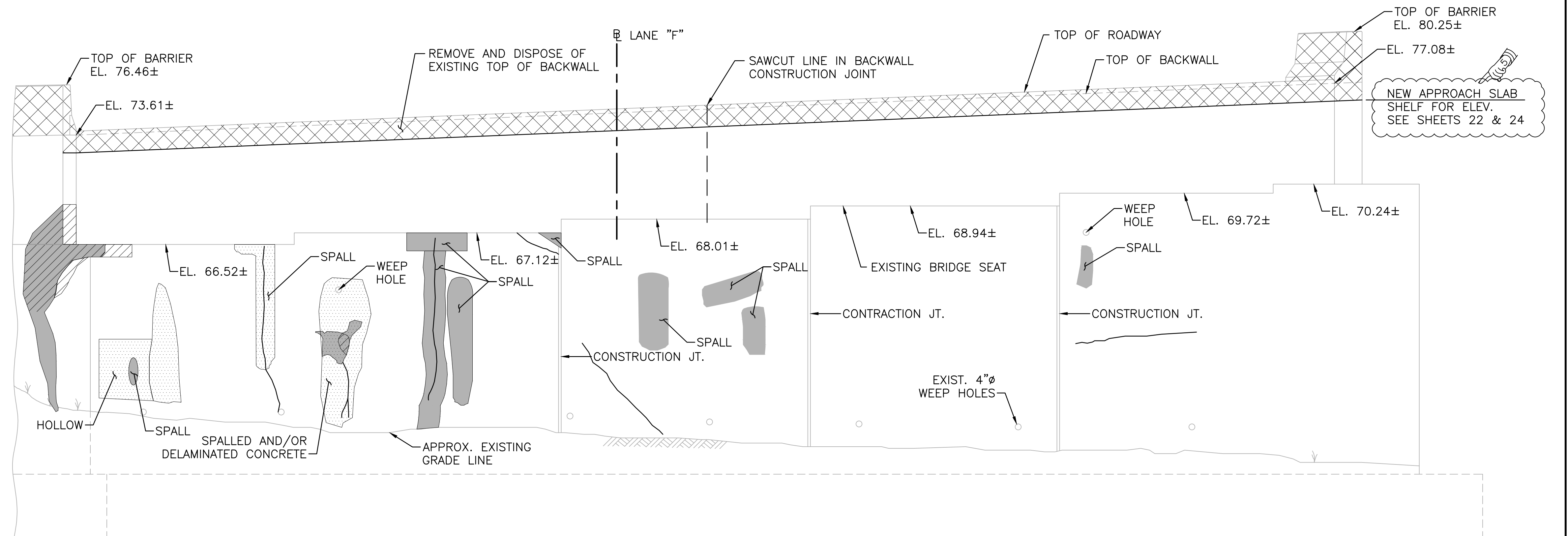
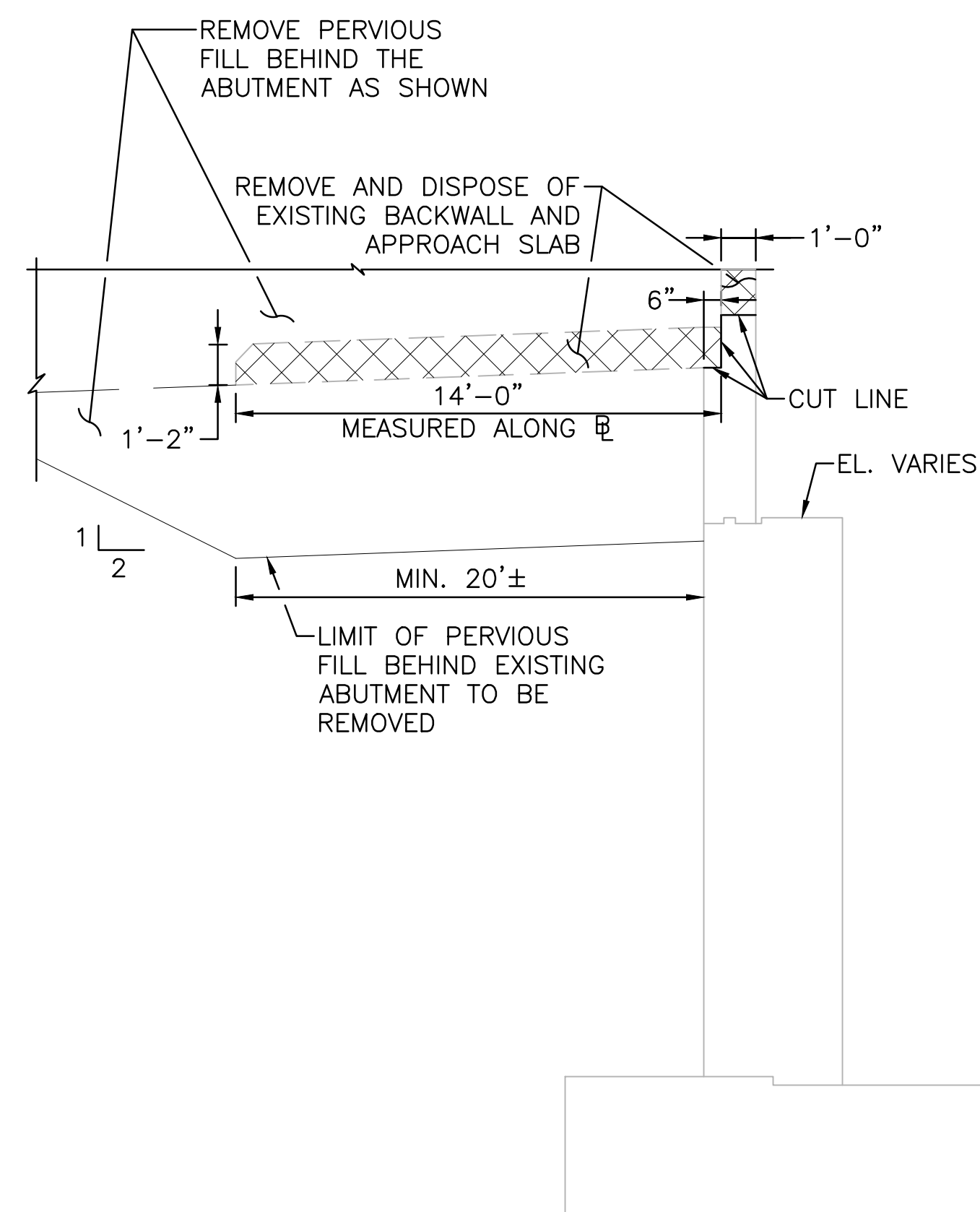
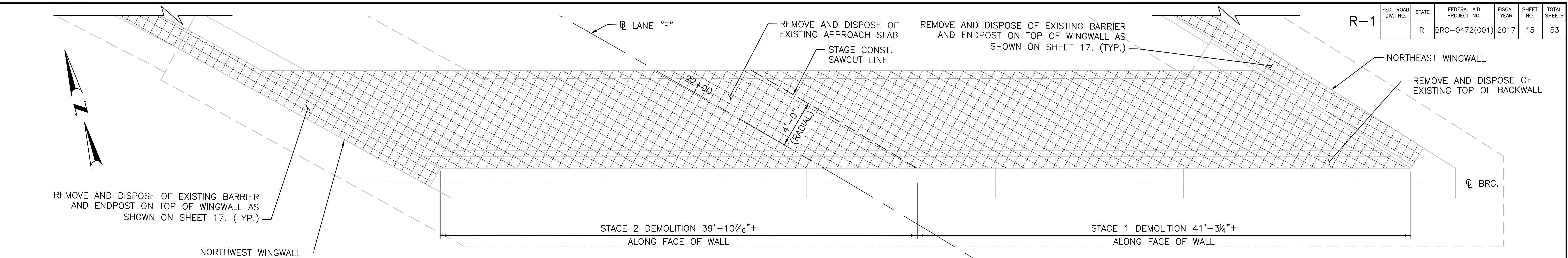
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



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BRO-0472(001)	2017	15	53



NOTES:

1. AREAS TO BE DEMOLISHED ARE SHOWN HATCHED.
2. CONTRACTOR SHALL REPAIR ALL DEFECTIVE AND DETERIORATED AREAS AS DIRECTED BY THE ENGINEER.
3. CONCRETE REPAIR AREAS THAT ARE COINCIDENT WITH REMOVAL AND RECONSTRUCTION AREAS ARE SHOWN FOR INFORMATION ONLY. THERE WILL BE NO PAYMENT FOR REPAIRS WITHIN THE LIMITS OF CONCRETE REMOVAL AND RECONSTRUCTION. IF ADDITIONAL DETERIORATED AREAS ARE FOUND BEYOND THE LIMITS SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED FOR DETERMINATION OF THE EXTENT OF DEMOLITION AND TYPE OF REPAIR TO BE IMPLEMENTED.
4. FOR DETAILS OF CONCRETE REPAIRS, REFER TO CONCRETE REPAIRS DETAIL ON SHEET 21 AND AS DESCRIBED IN THE SPECIFICATIONS AND SPECIAL PROVISIONER. WHEN DEFECTIVE, DETERIORATED, AND HONEYCOMB AREAS OVERLAP WITH AREAS TO BE DEMOLISHED, REPAIRS MAY BE MADE AFTER THE DEMOLITION.
5. LOCATIONS AND EXTENTS OF REPAIR OF CRACKS AND SPALLED CONCRETE ARE TO BE FIELD IDENTIFIED BY THE ENGINEER DURING CONSTRUCTION.
6. DIMENSIONS AND ELEVATIONS SHOWN WERE TAKEN FROM THE EXISTING DESIGN DRAWINGS AND SURVEY. THEY MAY NOT EXACTLY MATCH THE AS BUILT CONDITION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS, PRIOR TO COMMENCING WORK.

LEGEND:

- |   |  |
|---|--|
|  | DEMOLITION AREA  |
|  | SPALLED AND/OR DELAMINATED CONCRETE AREA –<br>SEE CONCRETE REPAIR DETAIL AND TYPE "A"<br>REPAIR DETAIL OR TYPE "B" REPAIR DETAIL ON<br>SHEET 21. |
|  | HOLLOW AREA – SEE CONCRETE REPAIR DETAIL<br>AND TYPE "A" REPAIR DETAIL OR TYPE "B"<br>REPAIR DETAIL ON SHEET 21.                                 |
|  | EXPOSED REBAR – SEE CONCRETE REPAIR DETAIL<br>AND TYPE "A" REPAIR DETAIL ON SHEET 21.  |
|  | HONEYCOMB – SEE CONCRETE REPAIR DETAIL AND<br>TYPE "B" REPAIR DETAIL ON SHEET 21.  |
|  | CRACKS – SEE CONCRETE REPAIR DETAIL AND<br>TYPE "C" REPAIR DETAIL ON SHEET 21.   |

ADDENDUM NO. 5



166 VALLEY STREET, BUILDING 5  
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RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO I-195  
ABC BRIDGE NO. 472 OVER I-195  
SUPERSTRUCTURE REPLACEMENT  
EAST PROVIDENCE, RHODE ISLAND

NORTH ABUTMENT  
DEMOLITION

CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED









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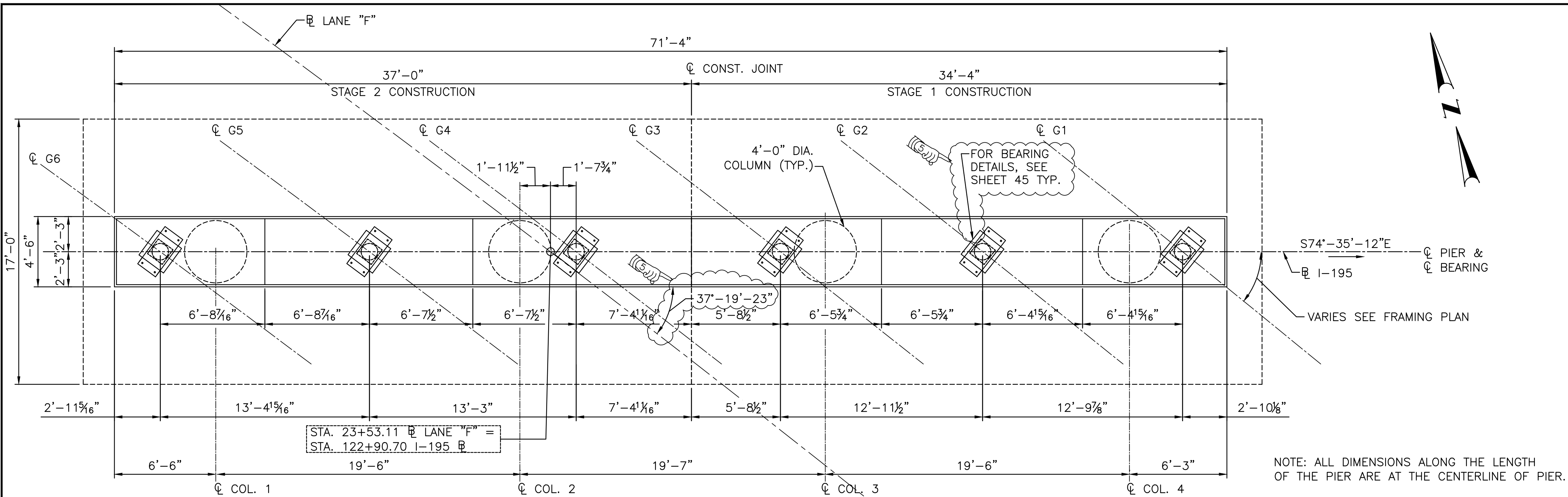




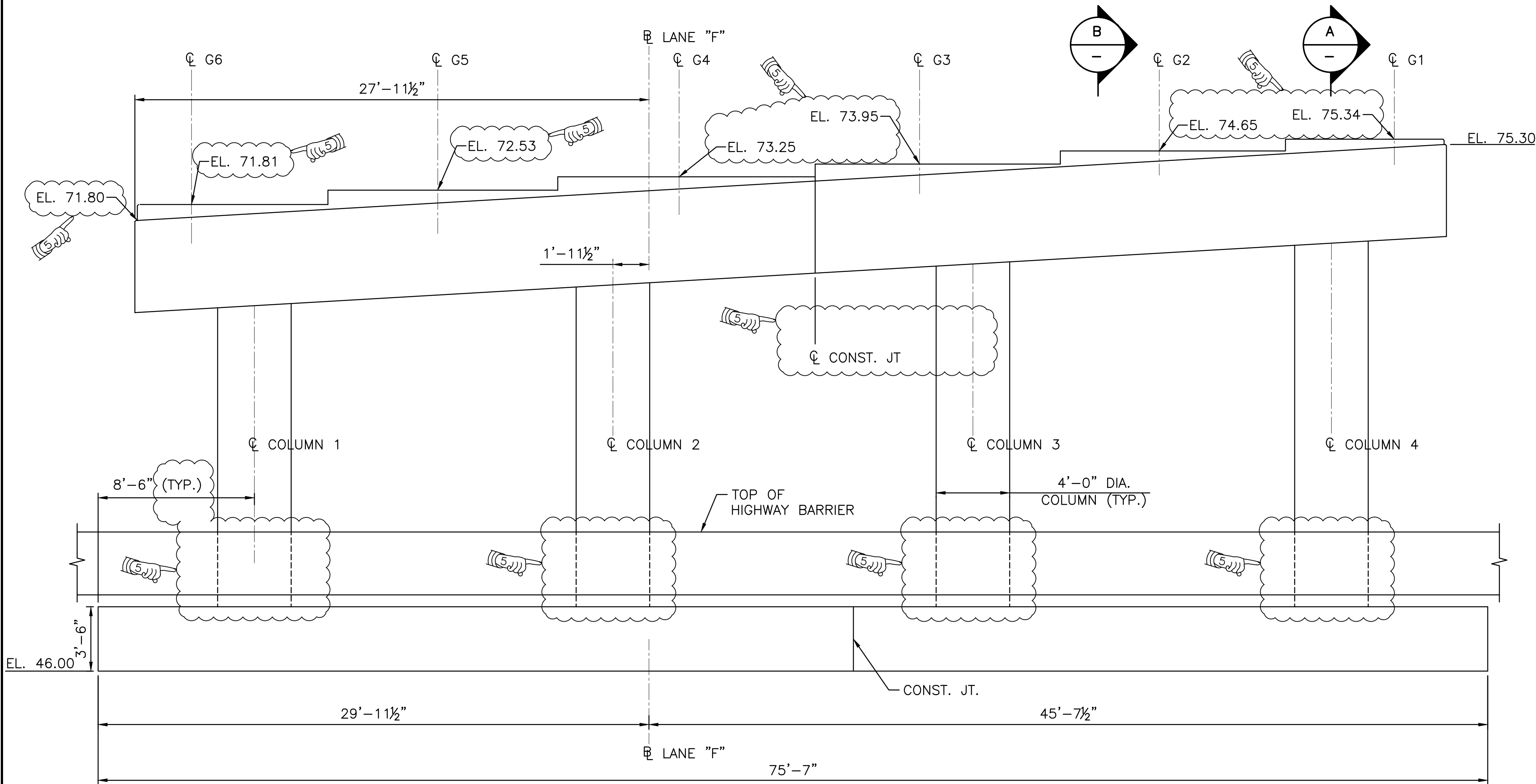




FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BRO-0472(001)	2017	29	53



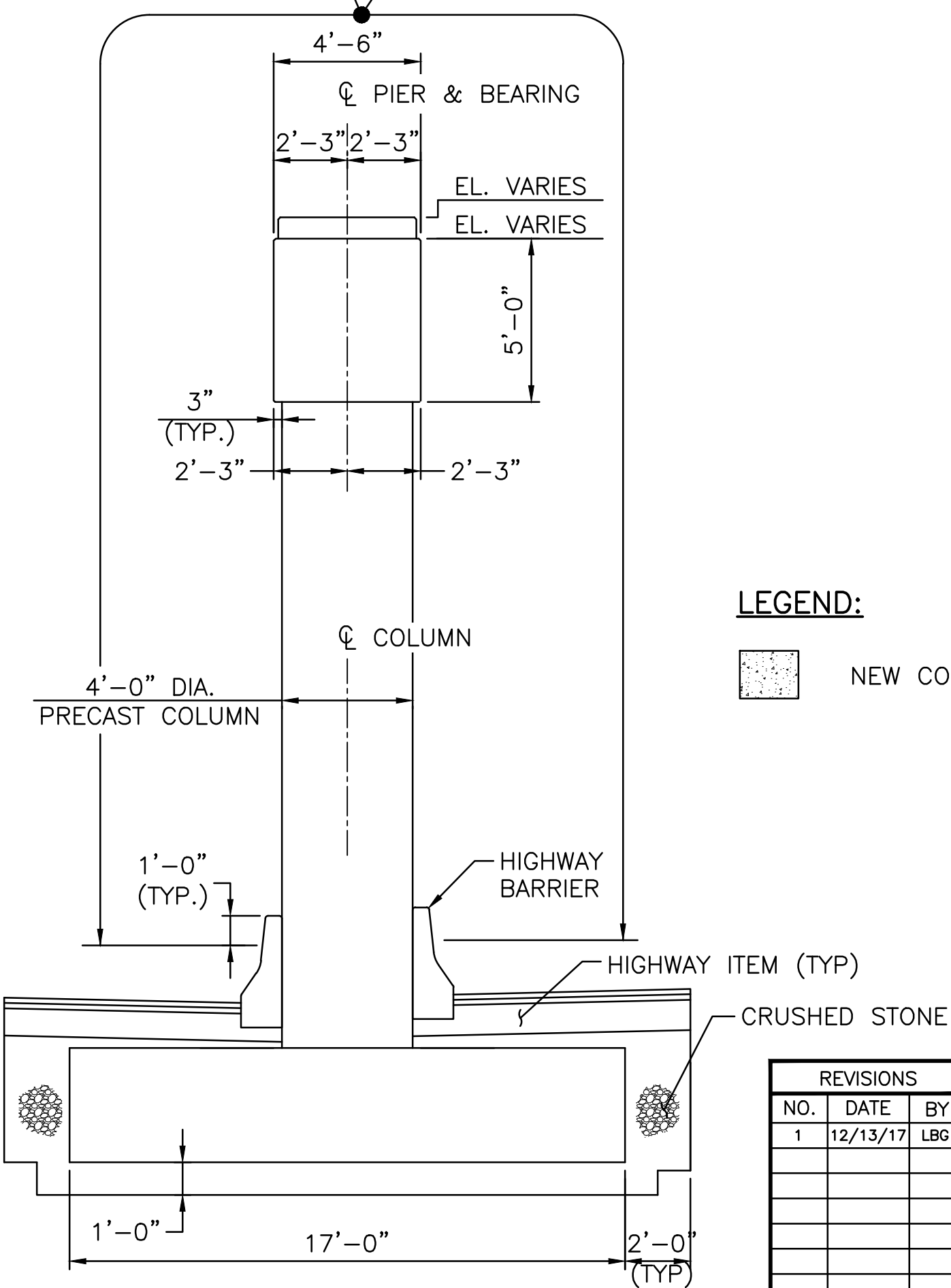
PIER PLAN  
SCALE: 1/4"=1'-0"



PIER ELEVATION  
SCALE: 1/4"=1'-0"  
(LOOKING NORTH)

LIMIT OF CONCRETE  
SURFACE FINISH  
RUBBED REGULAR

LIMIT OF CONCRETE  
SURFACE TREATMENT  
(PROTECTIVE COATING)



SECTION  
SCALE: 1/4"=1'-0"

LEGEND:

NEW CONCRETE AREA

ADDENDUM NO. 5



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REVISIONS		
NO.	DATE	BY
1	12/13/17	LBG

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO I-195  
ABC BRIDGE NO. 472 OVER I-195  
SUPERSTRUCTURE REPLACEMENT  
EAST PROVIDENCE, RHODE ISLAND

PIER PLAN AND ELEVATION

CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED

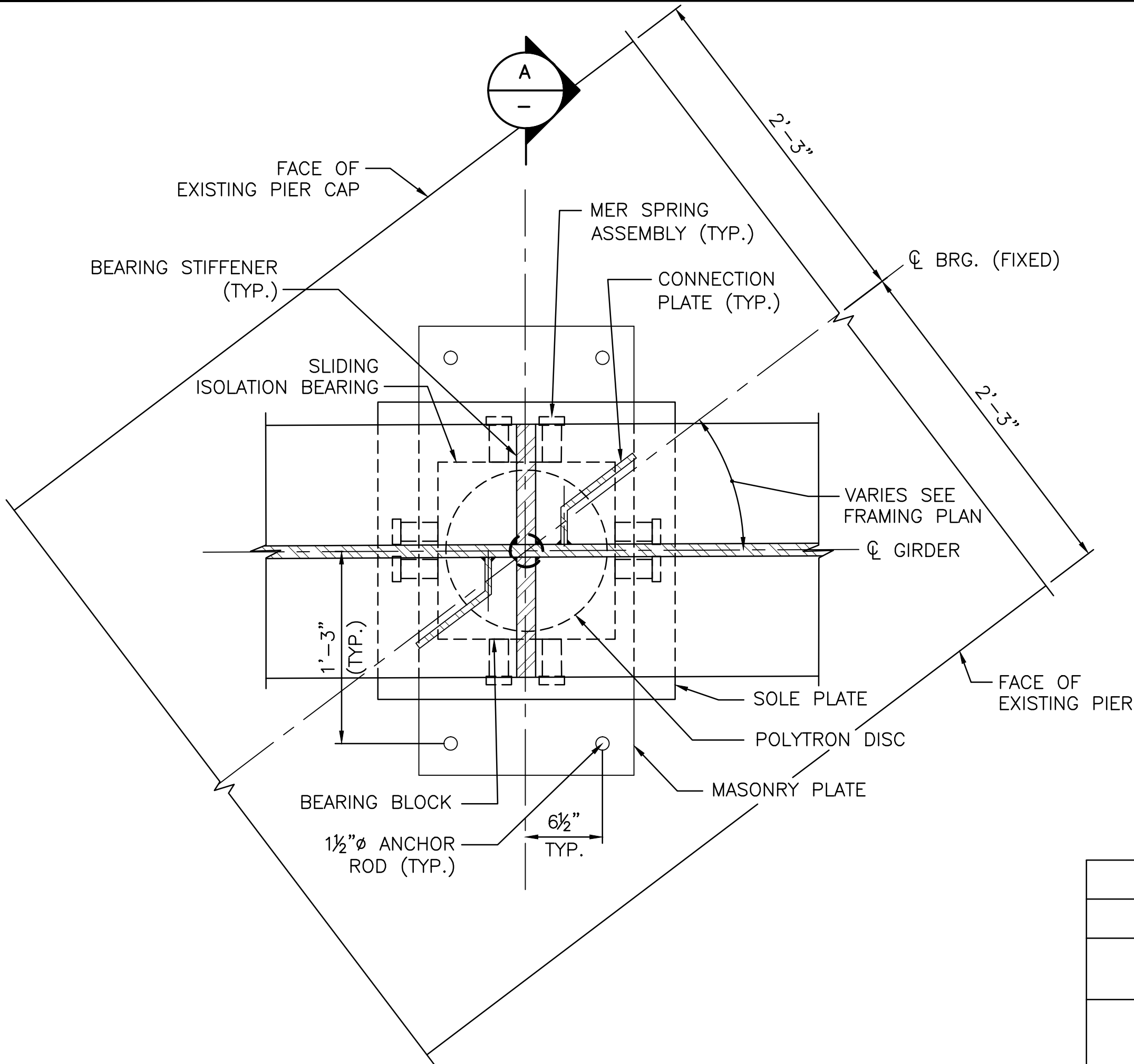




FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BRO-0472(001)	2017	45	53

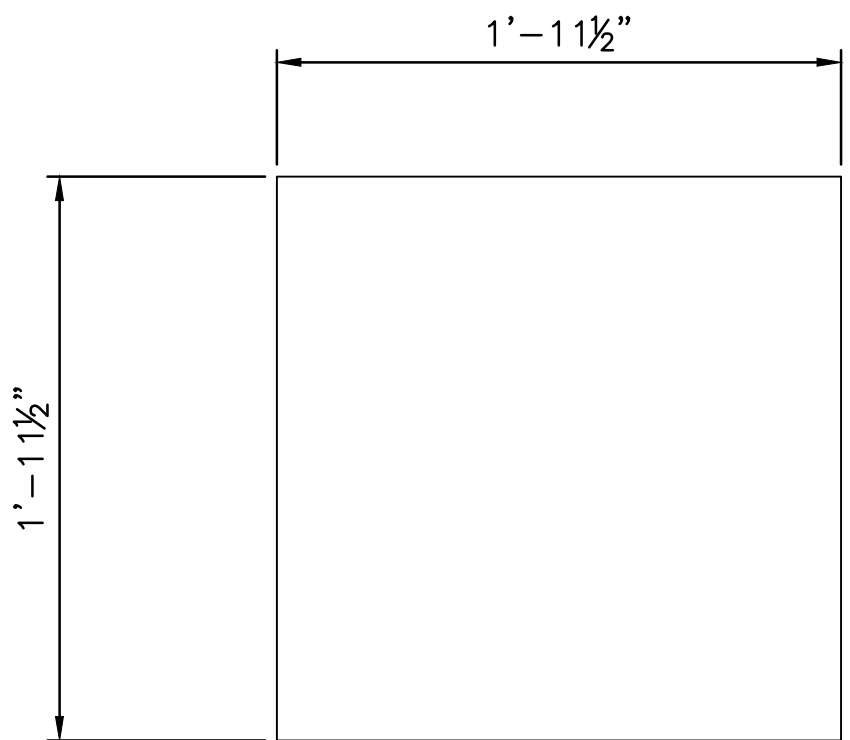
NOTES:

1. THE CONTRACTOR SHALL SUBMIT BEARING DESIGN, DETAILS AND SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.
2. THE OVERALL HEIGHT OF THE BEARINGS, WHICH VARIES WITH TYPE, CAPACITY AND MANUFACTURER, MUST BE KNOWN BEFORE THE EXACT BEAM SEAT ELEVATIONS CAN BE FINALIZED. CONTRACTOR SHALL ADJUST THE BEAM SEAT ELEVATIONS PER BEARING MANUFACTURER DESIGN.
3. ANCHOR ROD OR BOLT SPACING, DIAMETER AND PROJECTION SHALL BE COORDINATED WITH THE BEARING MANUFACTURER.
4. BEARING INSTALLATION, DESIGN, MATERIAL, FABRICATION, AND GENERAL CONSTRUCTION REQUIREMENTS SHALL BE IN STRICT CONFORMANCE WITH SPECIAL PROVISIONS OF THE SPECIFICATION AND THE MANUFACTURER'S RECOMMENDATIONS.
5. WELDS AND PERTINENT BOLTS ARE AS PER BEARING MANUFACTURER'S RECOMMENDATIONS.
6. ALL LOADS ARE UNFACTORED.
7. BEARING LOCATIONS SHALL BE SET BY FIELD SURVEY.
8. STRUCTURAL STEEL FOR SOLE PLATE AND MASONRY PLATE SHALL BE AASHTO M270, GRADE 50.
9. ANCHOR BOLTS (ASTM A449), NUTS (ASTM A563) AND WASHERS (F436) SHALL BE HOT DIPPED GALVANIZED.
10. SOLE PLATES ARE TO BE COMPOUND BEVELED AS NEEDED TO ACCOMMODATE THE VERTICAL GEOMETRY OF THE ROADWAY AND GIRDERS. MAINTAIN A MINIMUM THICKNESS OF 1".
11. MAXIMUM ALLOWABLE LONGITUDINAL DIMENSIONS FOR THE SOLE AND MASONRY PLATES ARE SHOWN. MINIMUM WIDTH FOR THESE PLATES ARE ALSO PROVIDED, BUT MAY BE INCREASED TO PROVIDE ADEQUATE CLEARANCE. THE BEARING MANUFACTURER SHALL DESIGN THE BEARINGS TO FIT WITHIN THE LIMITS OF THESE PLATES AND CLEAR THE BOLTS.
12. BEARING DETAILS SHOWN ARE CONCEPTUAL AND ACTUAL DETAILS MAY VARY SLIGHTLY DEPENDING ON MANUFACTURER.



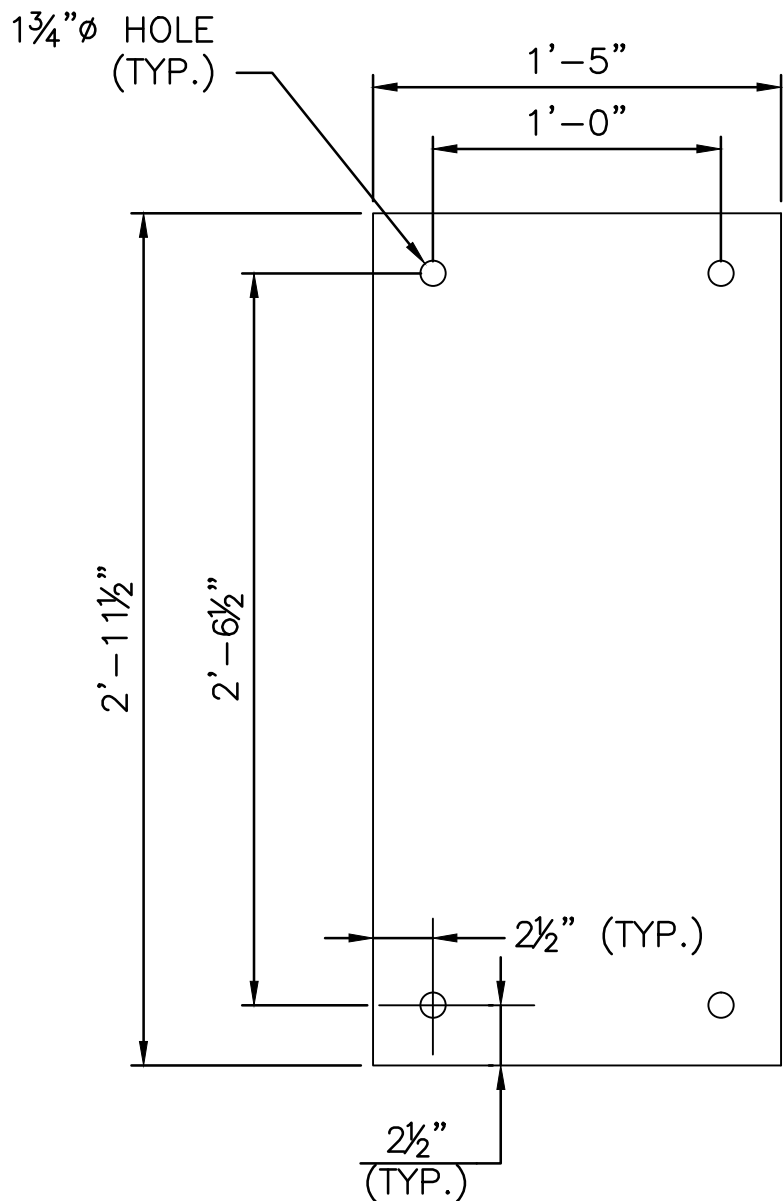
PLAN - SEISMIC ISOLATION BEARINGS AT PIER

SCALE: 1 1/2"=1'-0"



SOLE PLATE DETAIL

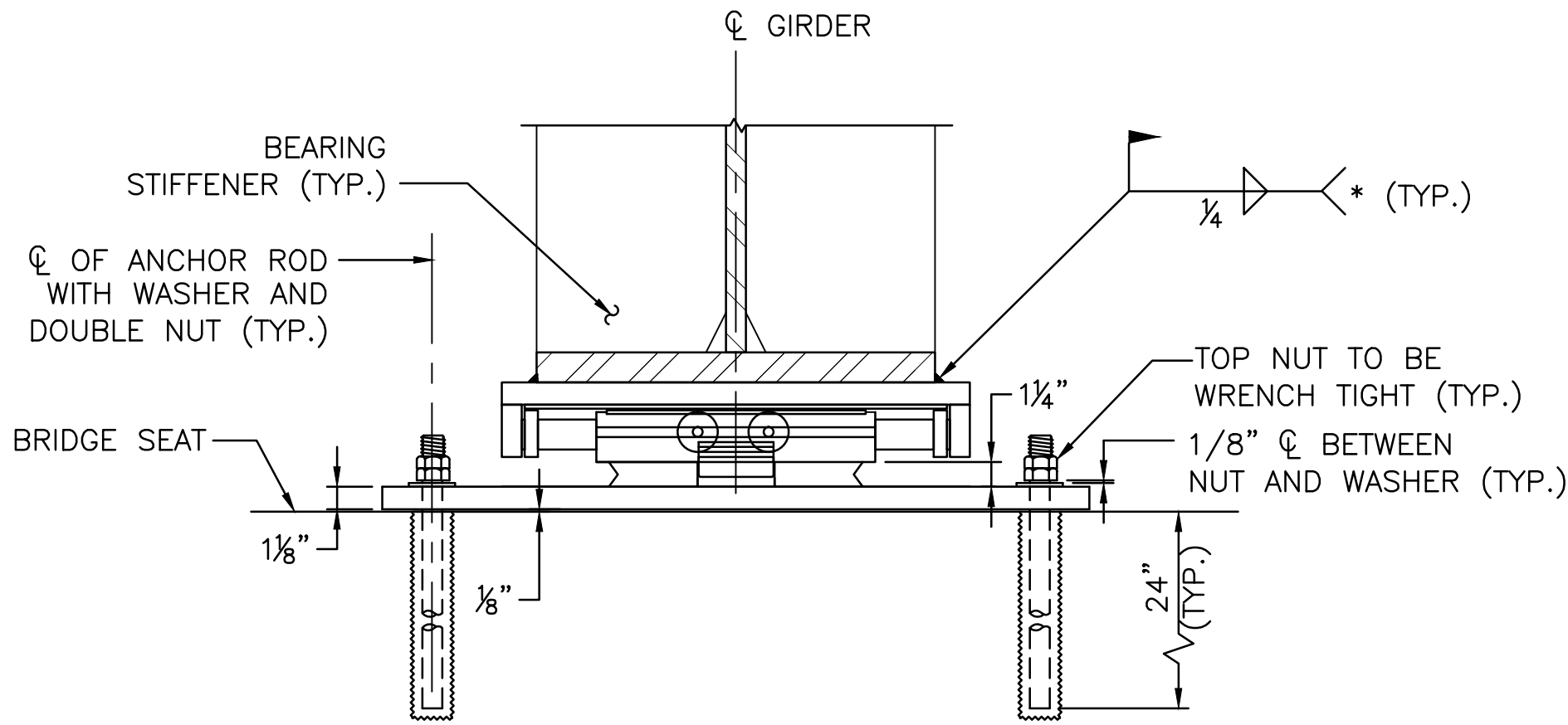
SCALE: 1 1/2"=1'-0"



MASONRY PLATE DETAIL

SCALE: 1 1/2"=1'-0"

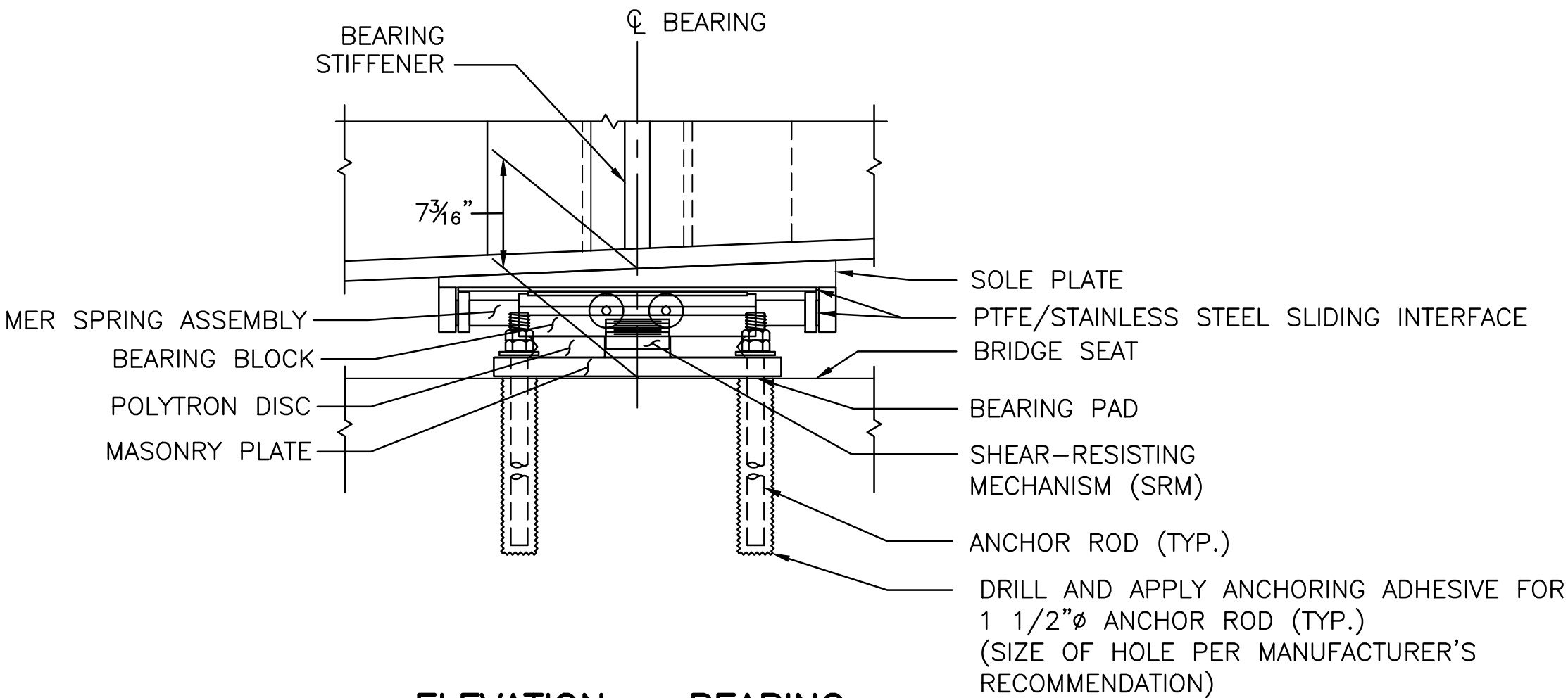
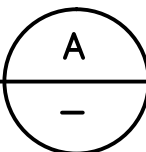
BEARING TYPE: EQS475 BY R.J. WATSON, INC.						
MAXIMUM BEARING SERVICE LOAD TABLE (KIPS)						
LOCATION	EARTHQUAKE LEVEL	DEAD LOAD	LIVE LOAD	SEISMIC LOADS		
				VERTICAL	LONGITUDINAL	TRANSVERSE
PIER	LOWER LEVEL (MAX. LONG.)	299	174	23	40	6
	LOWER LEVEL (MAX. TRANS.)			10	33	13
	UPPER LEVEL (MAX. LONG.)			65	120	16
	UPPER LEVEL (MAX. TRANS.)			28	100	50



(\*) - WELDS SHALL TERMINATE 1/4" FROM EDGE OF PLATE, MASKING AND TOUCH-UP PER STANDARD SPECIFICATIONS.

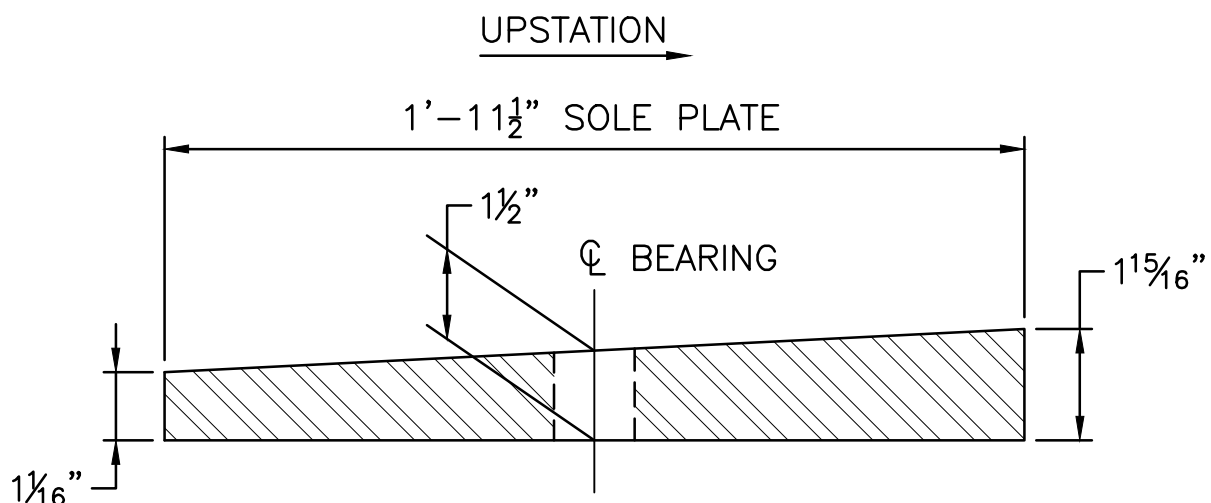
SECTION

SCALE: 1 1/2"=1'-0"



ELEVATION - BEARING

SCALE: 1 1/2"=1'-0"



SOLE PLATE SECTION

NOT TO SCALE

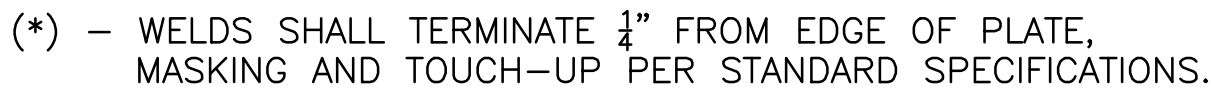
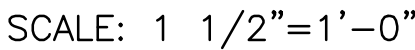
ENTIRE SHEET REPLACED BY ADDENDUM NO. 5

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
1	12/13/17	LBG	IMPROVEMENTS TO I-195	
			ABC BRIDGE NO. 472 OVER I-195	
			SUPERSTRUCTURE REPLACEMENT	
			EAST PROVIDENCE, RHODE ISLAND	
			BEARING DETAILS	
			SHEET 2 OF 3	
			CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED	

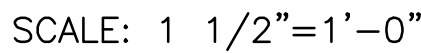
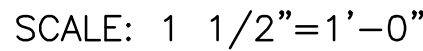
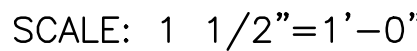
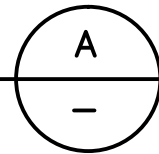
ADDENDUM NO. 5



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SCALE: 1 1/2"=1'-0"



BEARING TYPE: EQS155 BY R.J. WATSON, INC.

### MAXIMUM BEARING SERVICE LOAD TABLE (KIPS)

LOCATION	DEAD LOAD	LIVE LOAD	TOTAL
SOUTH ABUTMENT	79	84	163



166 VALLEY STREET, BUILDING 5  
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ENTIRE SHEET REPLACED BY  
ADDENDUM NO. 5

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

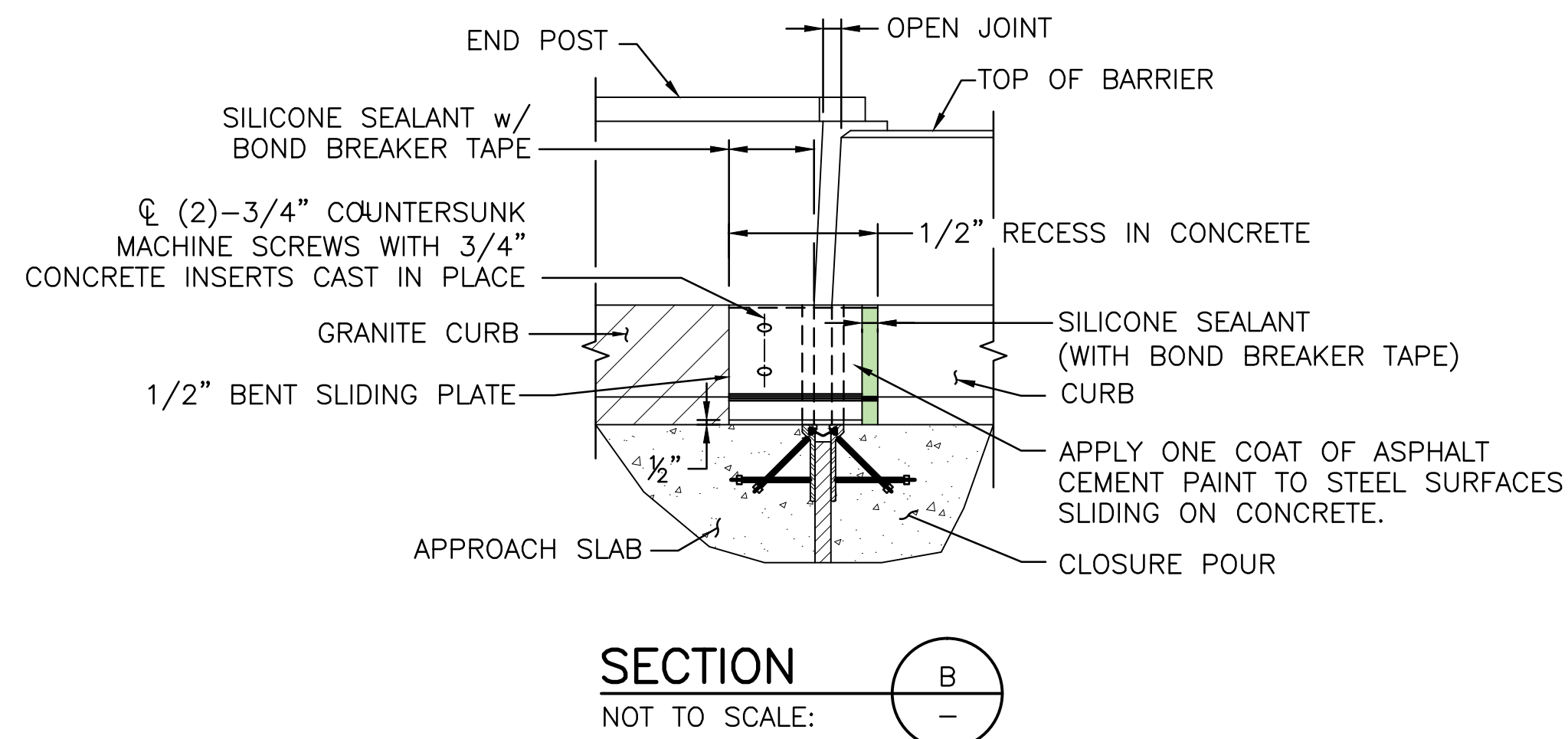
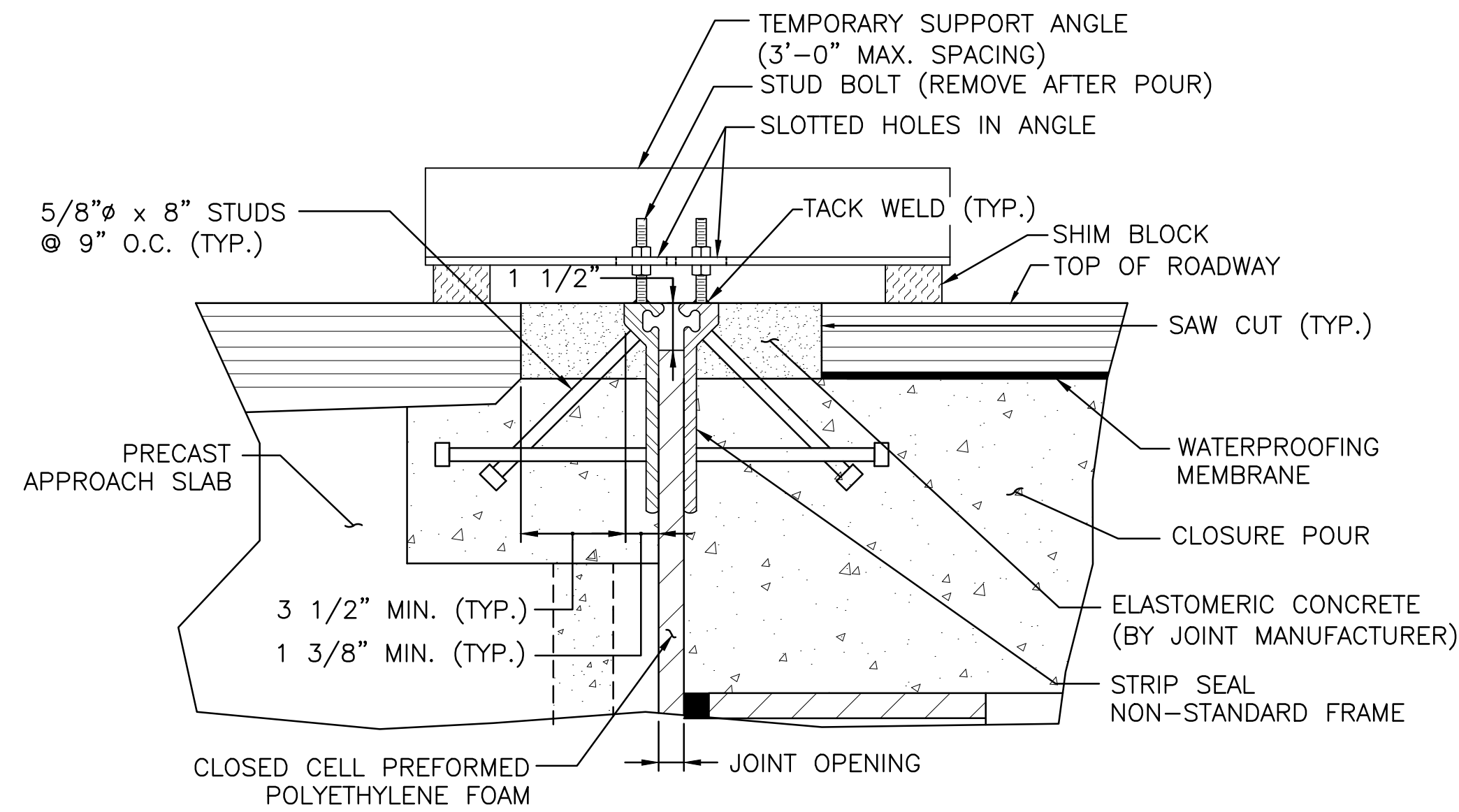
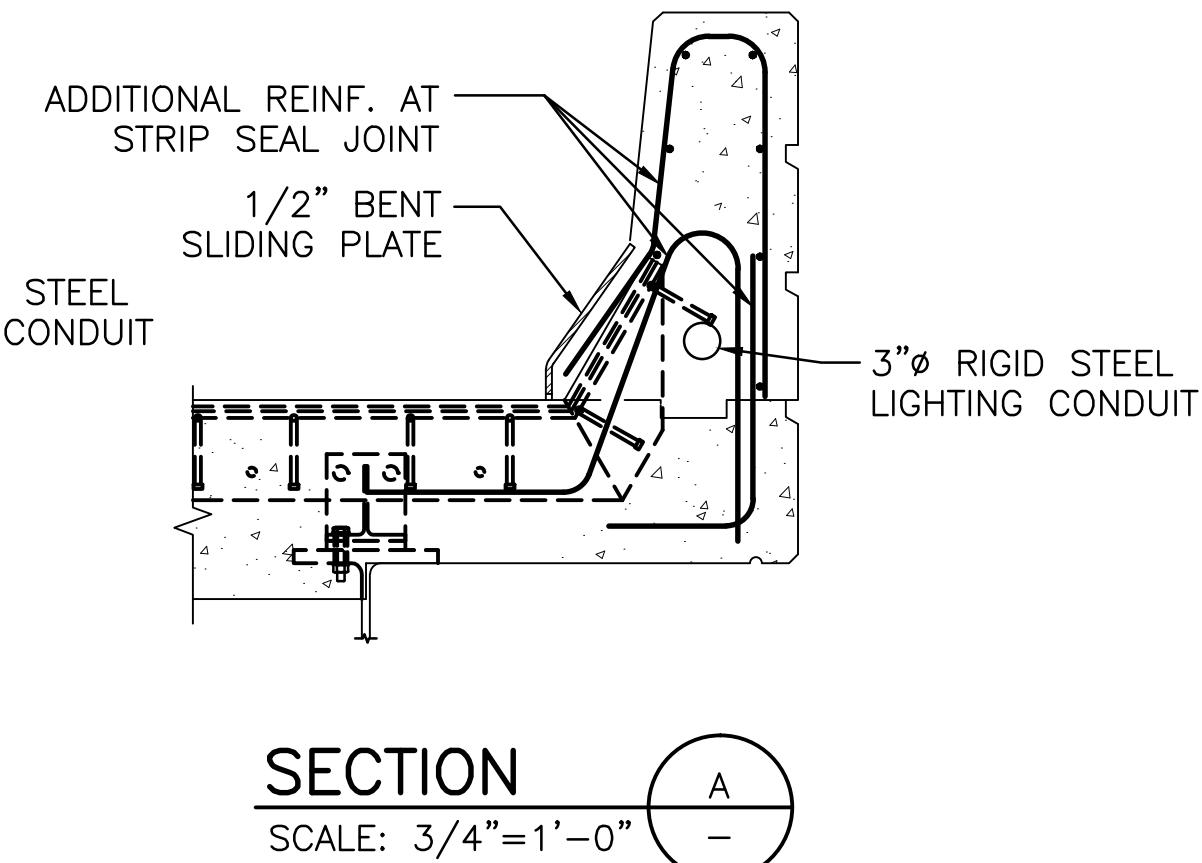
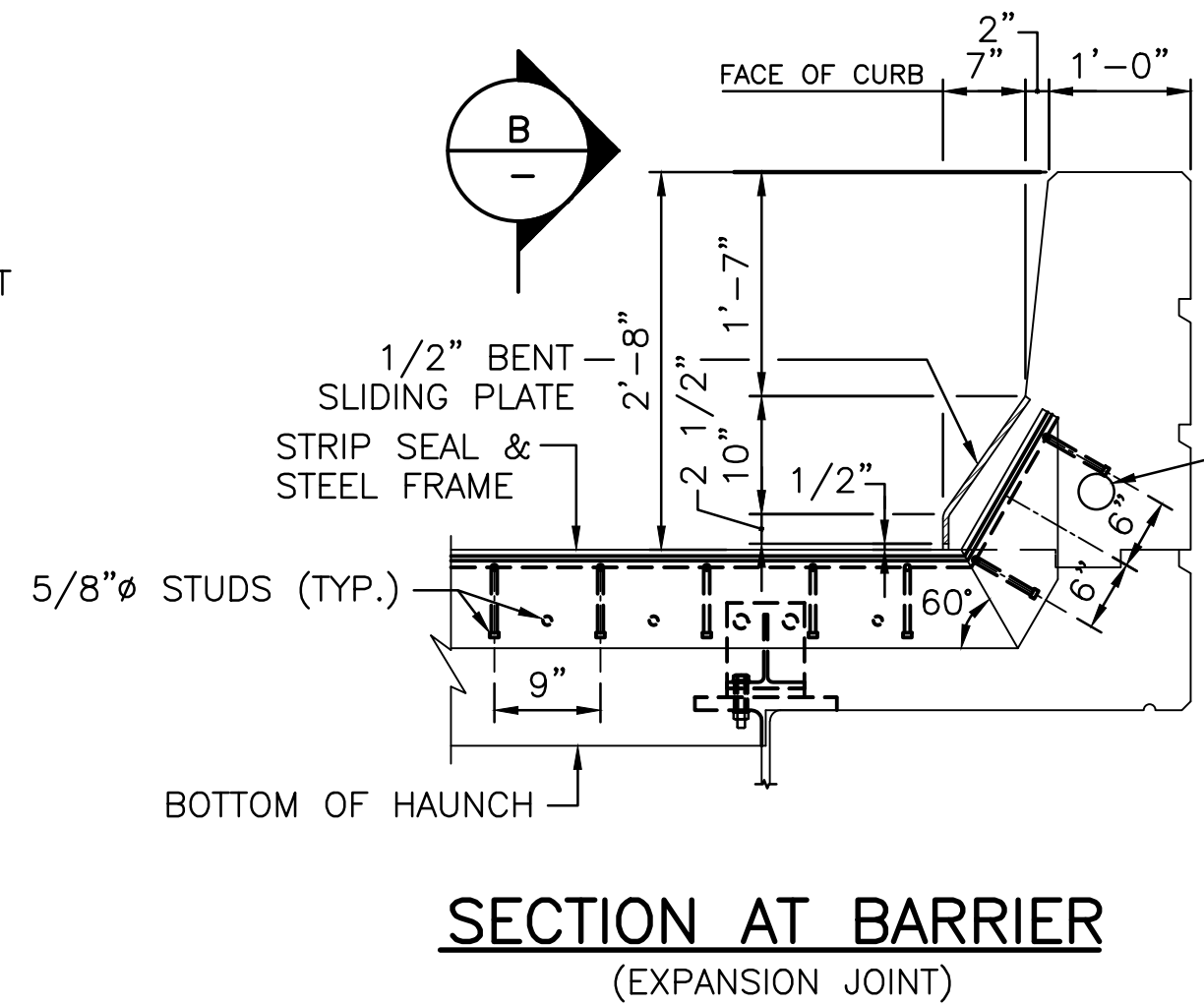
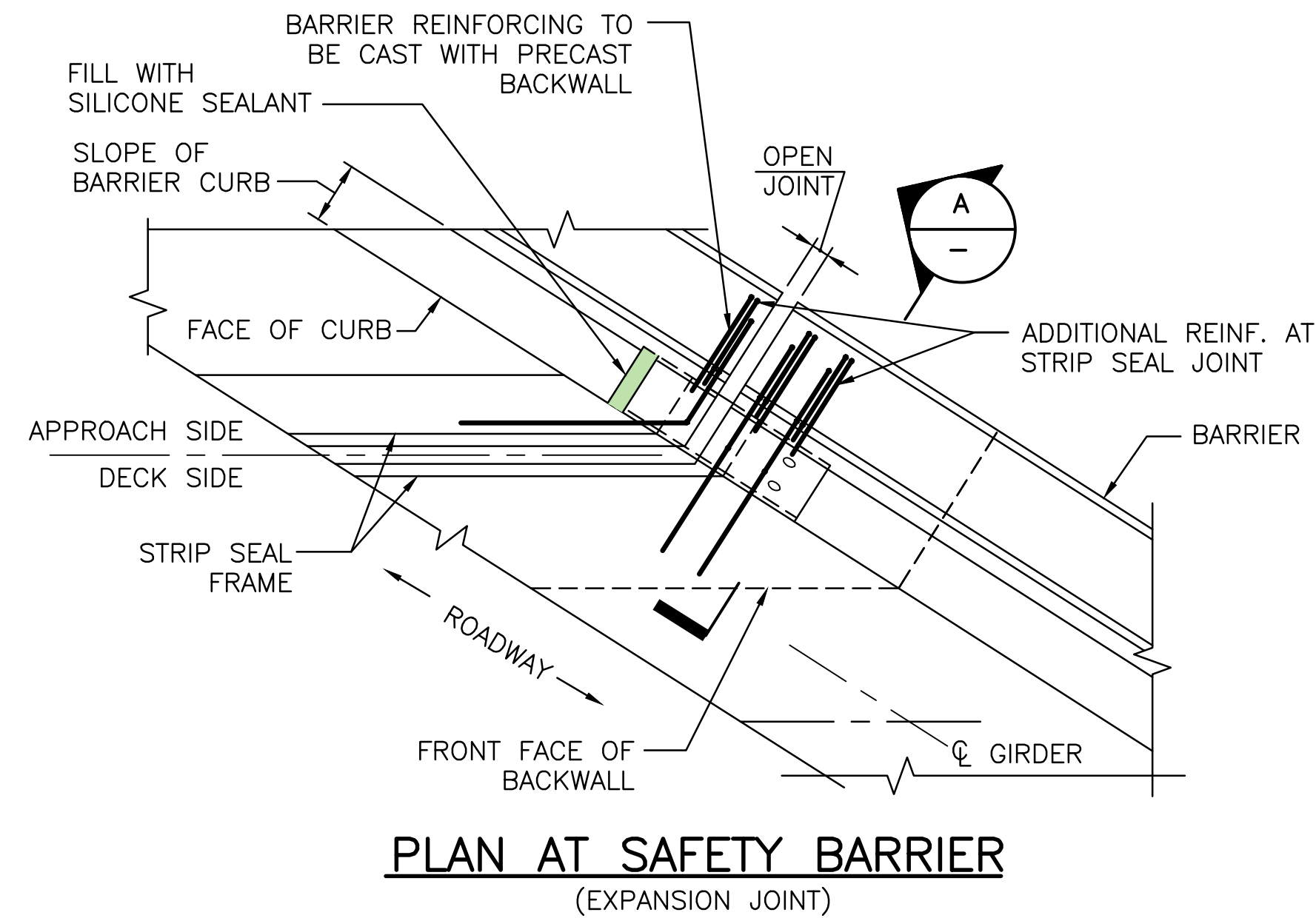
IMPROVEMENTS TO I-195  
ABC BRIDGE NO. 472 OVER I-195  
SUPERSTRUCTURE REPLACEMENT  
EAST PROVIDENCE, RHODE ISLAND

## BEARING DETAILS

SHEET 3 OF 3

CHECKED BY PNF DATE 9/22/17 SCALE AS NOTED





## INSTALLATION OF STRIP SEAL FRAME

DETAIL

---

SCALE: 3"=1'-0"

2  
24

TABLE OF JOINT OPENINGS		
TEMPERATURE (°F)	NORTH ABUT.	SOUTH ABUT.
	OPENING (IN)	OPENING (IN)
15	1 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "
30	1 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "
45	1 $\frac{3}{16}$ "	1 $\frac{1}{8}$ "
60	1 $\frac{1}{16}$ "	1 $\frac{1}{16}$ "
75	1 $\frac{1}{16}$ "	1"
90	$\frac{7}{8}$ "	$\frac{7}{8}$ "

REQUIRED TOTAL MOVEMENT =  $1 \frac{5}{16}$ "

## ADDENDUM NO. 5



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REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION  IMPROVEMENTS TO I-195 ABC BRIDGE NO. 472 OVER I-195 SUPERSTRUCTURE REPLACEMENT EAST PROVIDENCE, RHODE ISLAND  ROADWAY JOINTS
NO.	DATE	BY	
1	12/13/17	LBG	
CHECKED BY <u>PNF</u> DATE <u>9/22/17</u> SCALE <u>AS NOTED</u>			

