

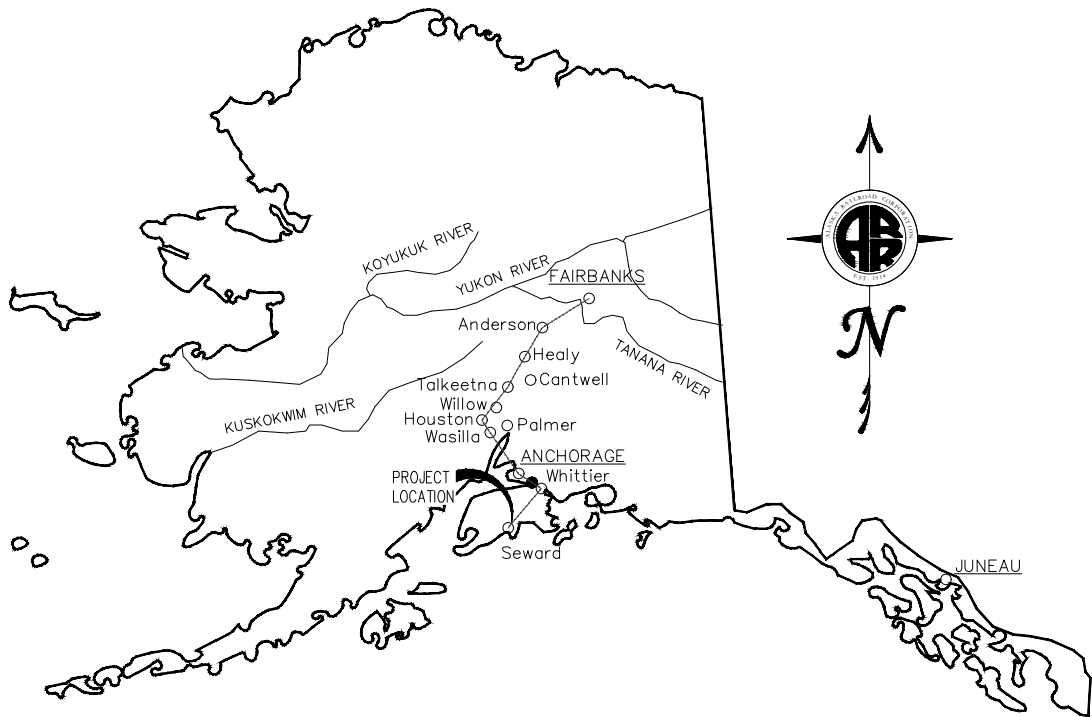
ALASKA RAILROAD CORPORATION

ENGINEERING SERVICES

P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

BRIDGE 6.0 REHABILITATION CAP FABRICATION

MAY 2025



VICINITY MAP
NTS



SHEET INDEX	
SHEET #	TITLE
1	COVER SHEET
2	NOTES AND BILL OF MATERIAL
3	BENTS 1 & 2 CAP DETAILS
4	BENTS 3-6 CAP DETAILS
5	BENTS 7-9 CAP DETAILS

DESIGNED BY: DJS

CHECKED BY: ARRC

DRAFTED BY: DJS

ALASKA RAILROAD CORPORATION
PO BOX 107500, ANCHORAGE, AK
99510-7500
327 W SHIP CREEK AVE
ANCHORAGE, AK 99501
(907) 265-2300

KEY MAP

A/E FIRM

ENGINEERING DEPARTMENT
P.O. BOX 107500
ANCHORAGE, ALASKA 99510-7500

PROJECT:
BRIDGE 6.0 REHABILITATION

SHEET TITLE:
COVER SHEET

AFE NO. XXX

YEAR 2025

SHEET 1 OF 5

FABRICATION NOTES:

- REFERENCE DOCUMENTS:
1. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE–OF–WAY ASSOCIATION FOR RAILWAY ENGINEERING 2024 (AREMA MANUAL)
 2. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 3. AMERICAN WELDING SOCIETY (AWS) BRIDGE WELDING MANUAL, AWS D1.5 2020

- FABRICATION:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE AREMA MANUAL UNLESS SPECIFIED OTHERWISE.
 2. THE FABRICATOR SHALL ACCOMMODATE THE QUALITY ASSURANCE EFFORTS OF THE ALASKA RAILROAD CORPORATION, OR ITS DESIGNEE, AT THE FABRICATOR’S FACILITIES.
 3. WELDING:
 - 3.1. WELD ELECTRODES SHALL BE COMPATIBLE WITH BASE METAL PROPERTIES AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70,000 PSI.
 - 3.2. USE 1/4" HOLDBACK ON FILLET WELDS.
 - 3.3. ALL WELD SPLATTER AND SLAG SHALL BE REMOVED.
 - 3.4. ALL WELDERS SHALL BE QUALIFIED FOR THE WELD PROCEDURE PER AWS D1.5.
 4. WELD TESTING;
 - 4.1. ALL FILLET WELDS SHALL BE 100% VISUALLY INSPECTED AND 25% MP INSPECTED.
 - 4.2. INSPECTIONS SHALL BE PERFORMED BY AWS INSPECTORS CERTIFIED PER AWS D1.5.
 5. WELD REPAIRS:
 - 5.1. ALL DEFECTIVE WELDS SHALL BE REPAIRED PER AWS D1.5 AND RETESTED UNTIL THEY PASS
 - 5.2. CRITICAL REPAIRS SHALL COMMENCE ONLY WITH THE ENGINEER’S APPROVAL

- DELIVERY:
1. MARKING AND SHIPPING SHALL BE IN ACCORDANCE WITH AREMA CHAPTER 15, SECTION 3.6, ARTICLE 3.6.1–MARKING, PACKAGING AND LOADING.
 2. ALL COMPONENTS SHALL BE DELIVERED AS SPECIFIED IN THE CONTRACT DOCUMENTS.
 3. FABRICATOR SHALL FIX OR REPLACE ANY COMPONENTS DAMAGED OR LOST DURING SHIPPING INCIDENTAL TO THIS CONTRACT.
 4. ALL MATERIALS F.O.B:

WAREHOUSE 1
485 OCEAN DOCK RD
ANCHORAGE AK 99501

BILL OF MATERIAL									
DESCRIPTION	PIECE MARK	TYPE	SIZE	LENGTH	UNIT WEIGHT (LBS)	QUANTITY	TOTAL WEIGHT (LBS)	MATERIAL GRADE	REMARKS
BENT 1 CAP	b1	W-SHAPE	W14X211	14’–0.0”	3489	1	3489	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE
BENT 2 CAP	b2	W-SHAPE	W14X211	14’–0.0”	3489	1	3554	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE
BENT 3 CAP	b3	W-SHAPE	W14X211	14’–0.0”	3489	1	3554	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE
BENT 4 CAP	b4	W-SHAPE	W14X211	14’–0.0”	3489	1	3554	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE
BENT 5 CAP	b5	W-SHAPE	W14X211	14’–0.0”	3489	1	3554	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE
BENT 6 CAP	b6	W-SHAPE	W14X211	14’–0.0”	3489	1	3554	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE
BENT 7 CAP	b7	W-SHAPE	W14X211	14’–0.0”	3489	1	3554	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE
BENT 8 CAP	b8	W-SHAPE	W14X211	14’–0.0”	3489	1	3554	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE
BENT 9 CAP	b9	W-SHAPE	W14X211	14’–0.0”	3489	1	3489	W-SHAPE AND PLATES: ASTM A709 GR 50W3	ASTM A588 IS AN ACCEPTABLE ALTERNATIVE

DESIGNED BY: DJS

CHECKED BY: ARRC

DRAFTED BY: DJS

ALASKA RAILROAD CORPORATION
PO BOX 107500, ANCHORAGE, AK 99510–7500
327 W SHIP CREEK AVE
ANCHORAGE, AK 99501
(907) 265–2300

KEY MAP

A/E FIRM

ENGINEERING DEPARTMENT
P.O. BOX 107500
ANCHORAGE, ALASKA 99510–7500

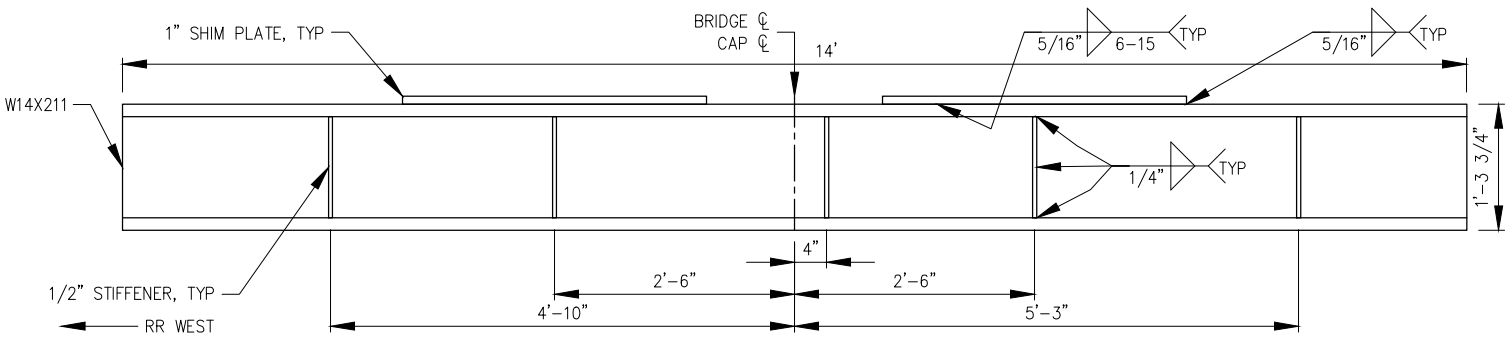
PROJECT: BRIDGE 6.0 REHABILITATION

SHEET TITLE: NOTES AND BILL OF MATERIAL

AFE NO. XXX

YEAR 2025

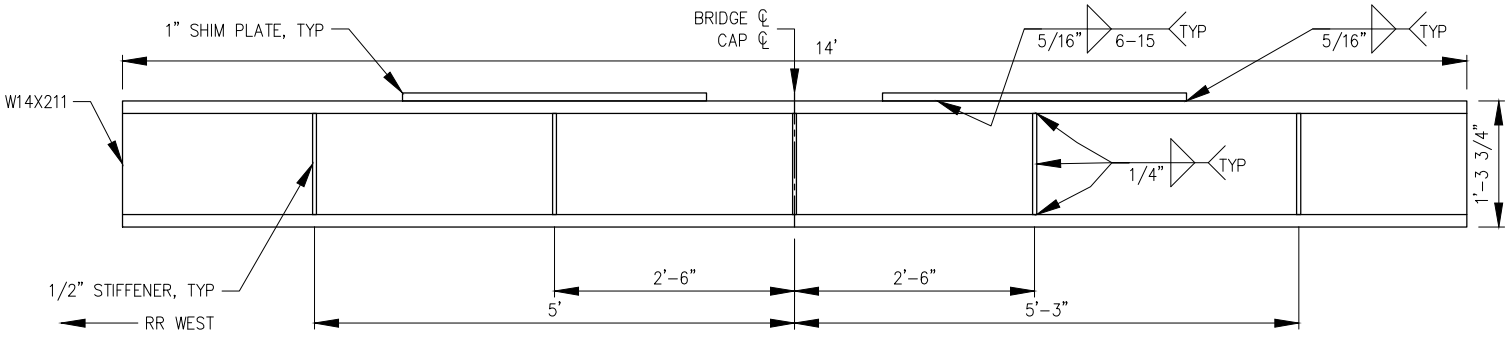
SHEET 2 OF 5



FRONT VIEW

BENT 3 CAP – b3

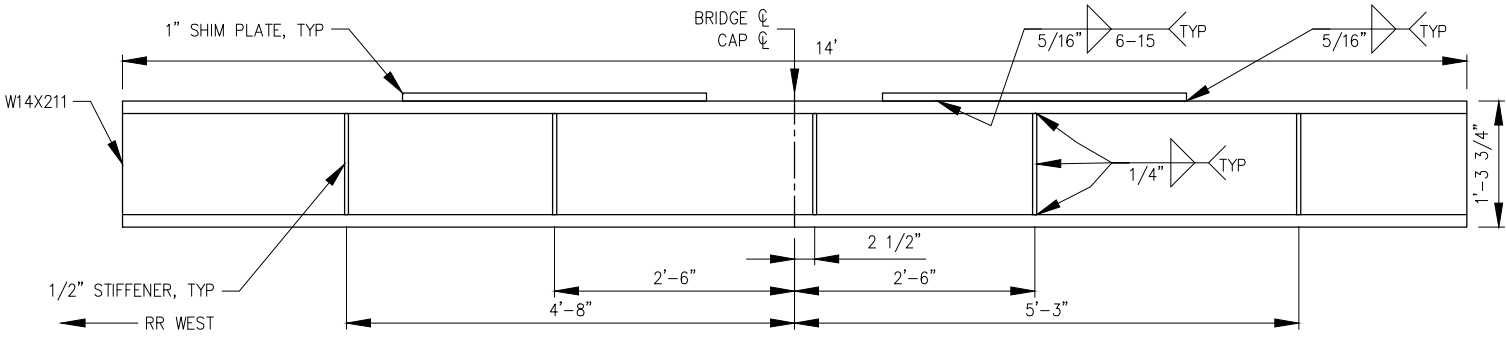
SCALE: 1" = 1'-0"



FRONT VIEW

BENT 4 CAP – b4

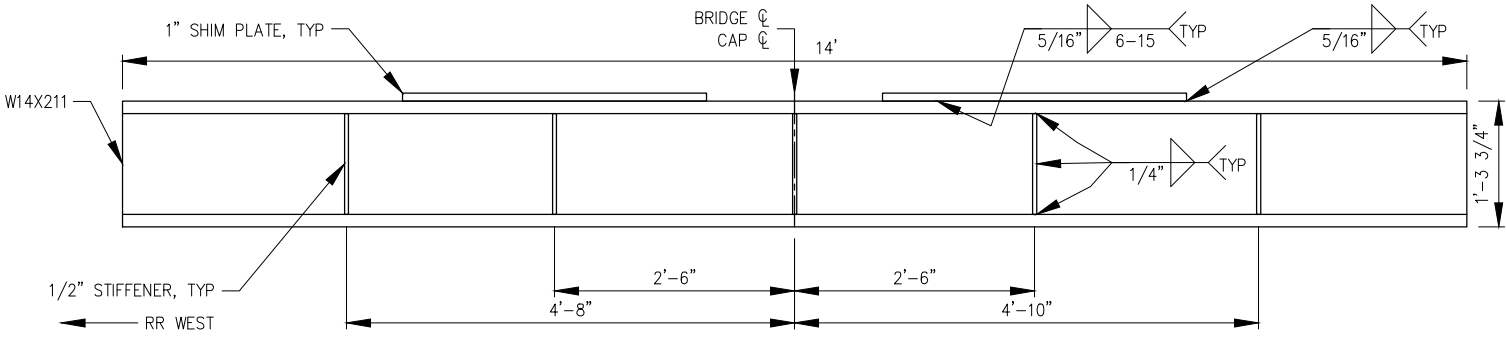
SCALE: 1" = 1'-0"



FRONT VIEW

BENT 5 CAP – b5

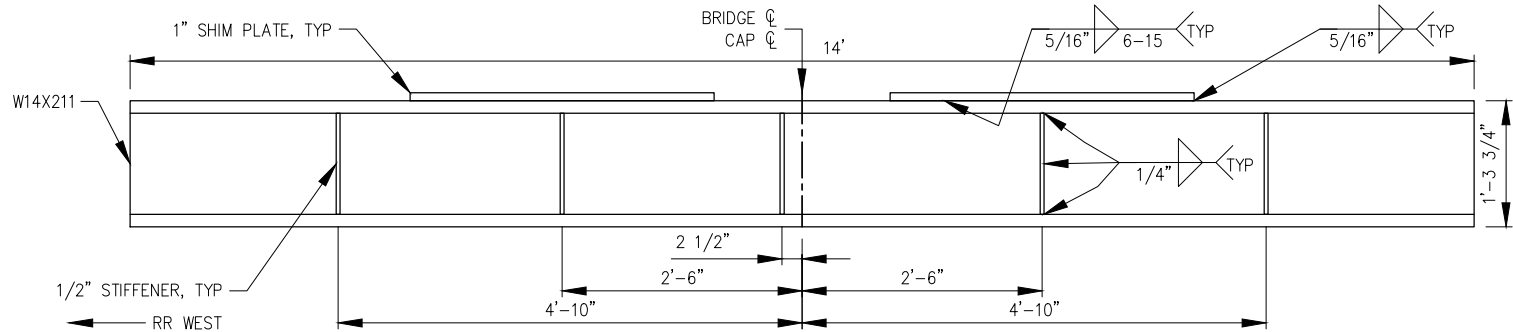
SCALE: 1" = 1'-0"



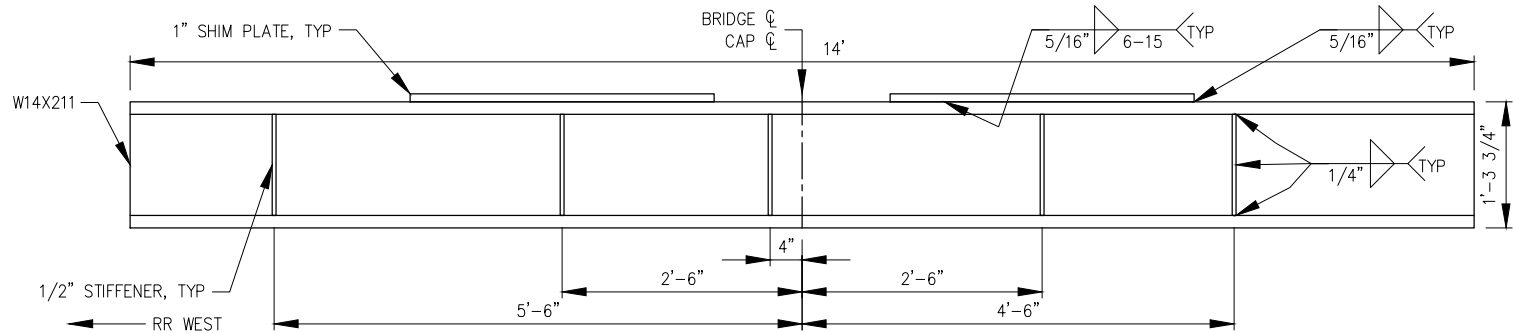
FRONT VIEW

BENT 6 CAP – b6

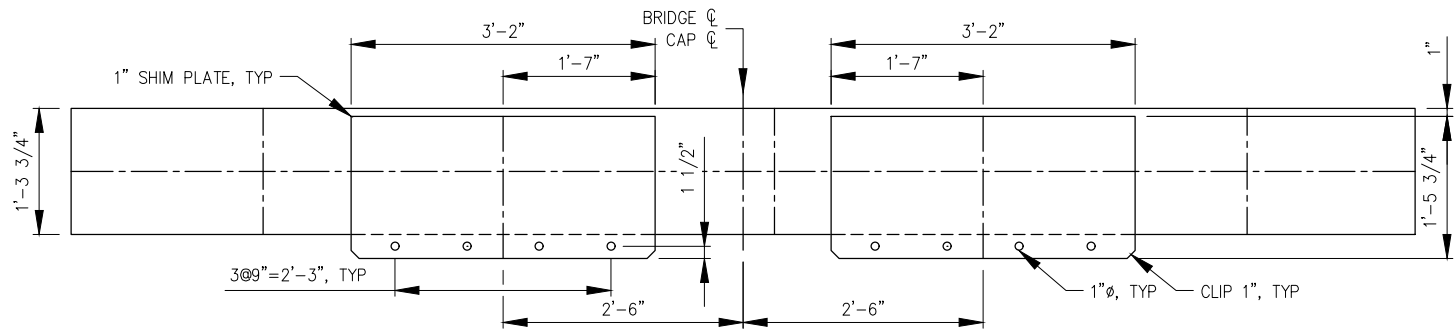
SCALE: 1" = 1'-0"



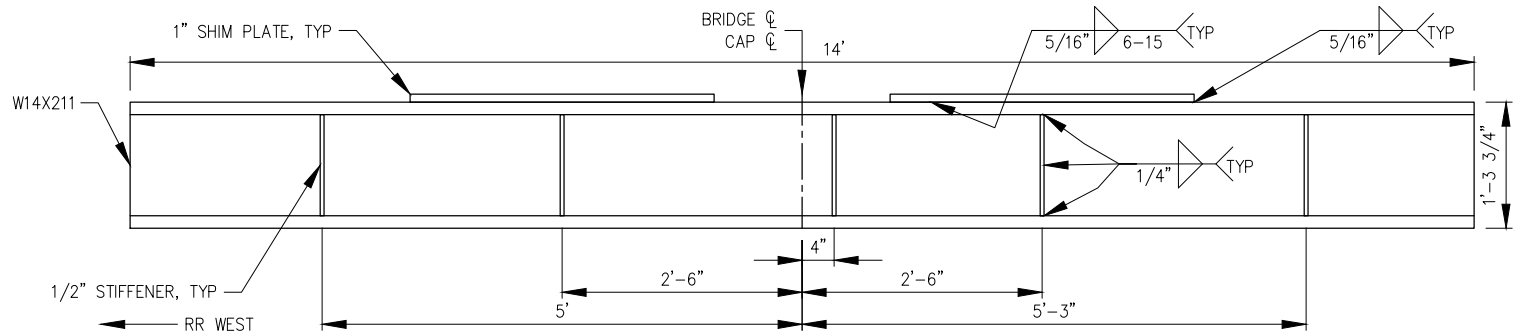
FRONT VIEW
A
5
BENT 7 CAP - b7
SCALE: 1" = 1'-0"



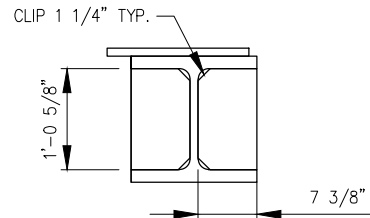
FRONT VIEW
B
5
BENT 8 CAP - b8
SCALE: 1" = 1'-0"



TOP VIEW
C
5
BENT 9 CAP - b9
SCALE: 1" = 1'-0"



FRONT VIEW
C
5
BENT 9 CAP - b9
SCALE: 1" = 1'-0"



SECTION VIEW