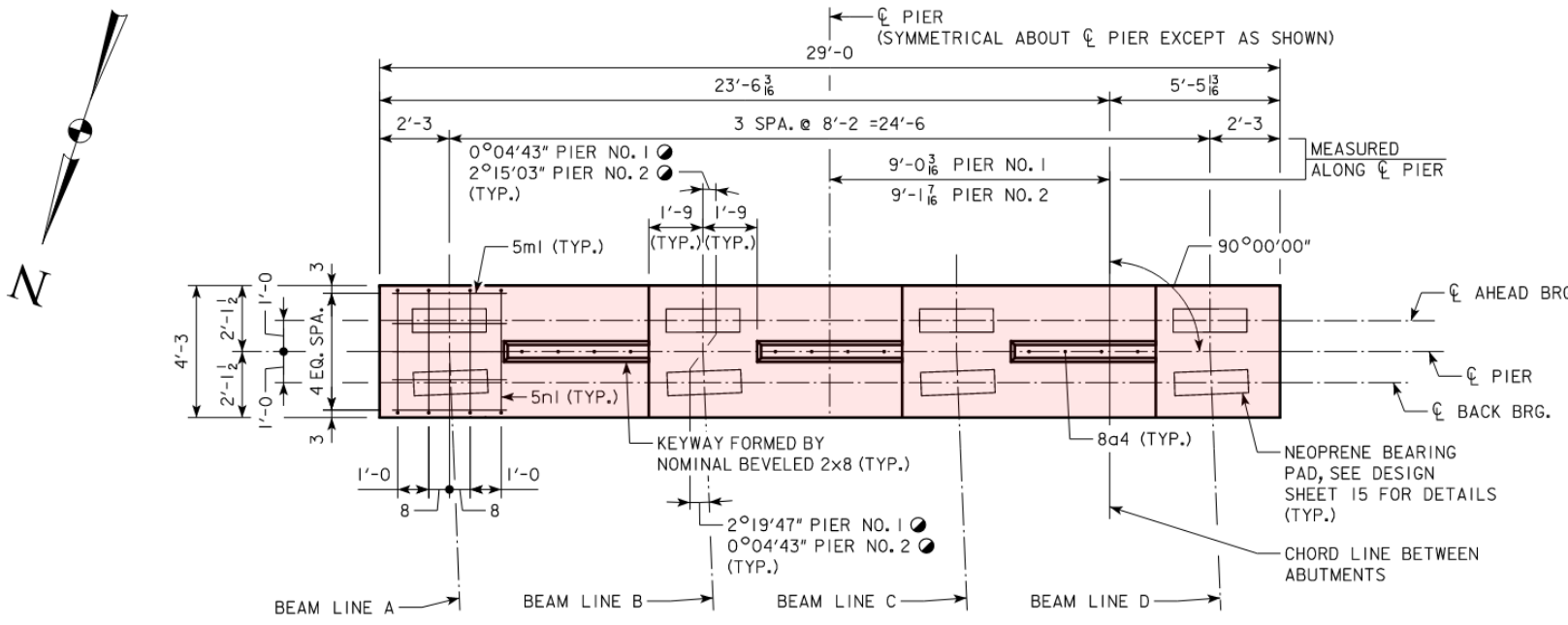
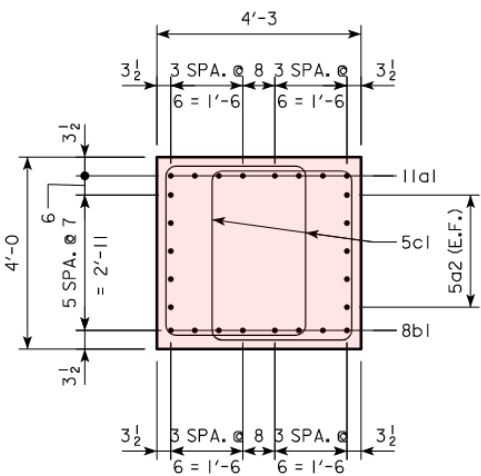


BENCH MARK NO. 26: NORTHING: 604283.735, EASTING: 1624489.540, ELEV. 886.700, FENO. MONUMENT, W/CAP STAMPED "026", 6" DEEP, IN THE NORTH ROW/SHOULDER OF NE 54TH AVE., 9' NORTH OF EDGE AC SLAB; 128' FROM P.I. OF NE 54TH AVE. WITH OF RR CROSSING.



PLAN OF PIER CAP

NOTE:
● MEASURED PERPENDICULAR TO C OF PIER.



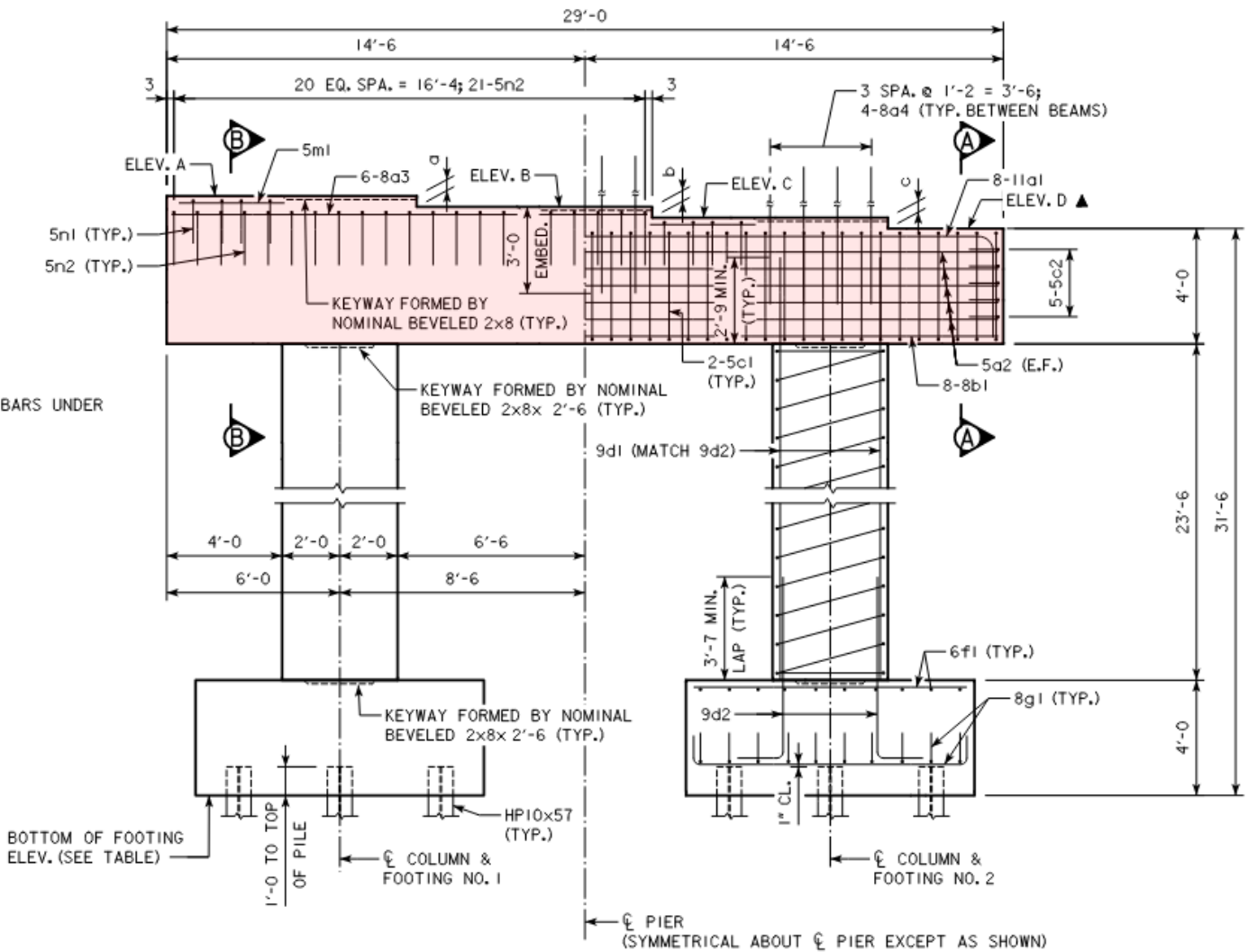
SECTION A-A

TABLE OF PIER ELEVATIONS		
ELEVATION	PIER NO. 1	PIER NO. 2
ELEV. A	957.61	957.99
ELEV. B	957.23	957.61
ELEV. C	956.86	957.24
ELEV. D	▲ 956.48	▲ 956.86
BOTTOM OF FOOTING	924.98	925.36

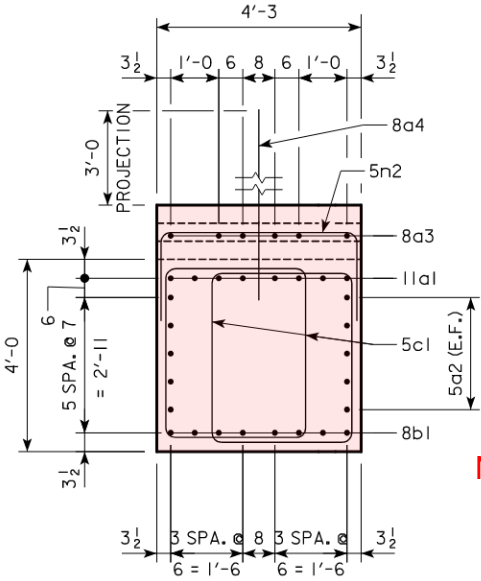
▲ LOW STEP ELEVATION

TABLE OF PIER STEPS		
STEP	PIER NO. 1	PIER NO. 2
a	4 1/2	4 1/2
b	4 1/2	4 1/2
c	4 1/2	4 1/2

NOTE:
PLACE 5m1 AND 5n1 BARS UNDER BEAMS A AND C ONLY.



PIER ELEVATION
(LOOKING SOUTH)



SECTION B-B

NOTES:
1. For the full plan set and additional structure information, see Br1-Precast and Cast Concrete-Iowa DOT.pdf.

PIER NOTES:
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

Unit Test Instruction for the Design-to-Construction Data Exchange

1

12/13/23

AMN

Issue / Revision Notes

Level 1 Pier Cap

Unit Test / Sheet No.

L1-Br01-PierCap01 / 01

BIM

FOR BRIDGES AND STRUCTURES

TPF-5(372)

DR

jō consulting

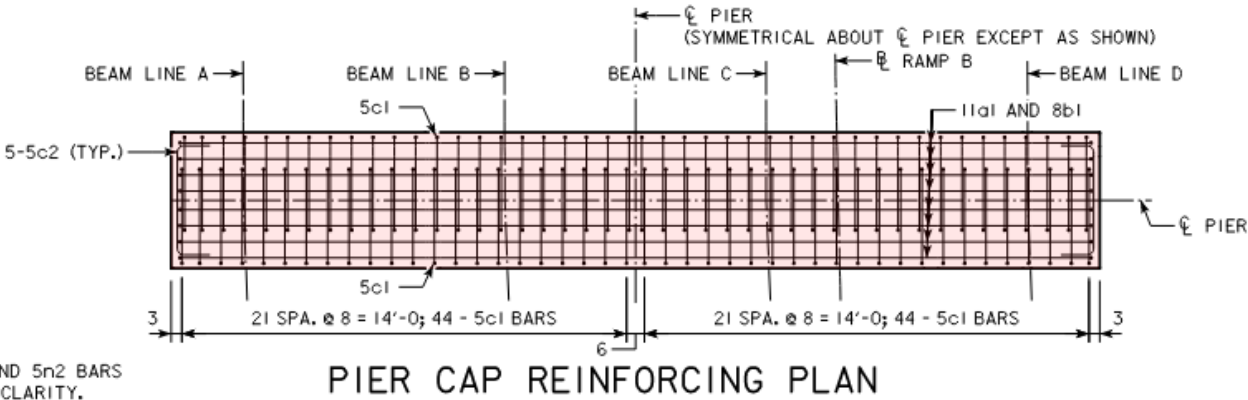
BENT BAR DETAILS

ALTERNATE COLUMN TIE

REINFORCING BAR LIST - ONE PIER

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
11a1	CAP, TOP, LONGITUDINAL		8	35'-6	1,509
5a2	CAP, SIDE, LONGITUDINAL		10	28'-8	299
8a3	CAP, TOP, LONGITUDINAL		6	16'-6	264
8a4	CAP TO DIAPHRAGM DOWEL		12	6'-0	192
8b1	CAP, BOTTOM, LONGITUDINAL		8	28'-8	612
5c1	CAP, HOOPS		88	14'-3	1,308
5c2	CAP, ENDS		10	5'-9	60
9d1	COLUMN, VERTICAL		36	26'-3	3,213
9d2	FOOTING TO COLUMN DOWEL		36	7'-11	969
6f1	FOOTING, TOP		40	9'-8	581
8g1	FOOTING, BOTTOM		40	12'-4	1,317
5m1	CAP, PEDESTAL, LONGITUDINAL		10	3'-8	38
5n1	CAP, PEDESTAL, TRANSVERSE		8	6'-11	58
5n2	CAP, PEDESTAL, TRANSVERSE		21	7'-9	170
#5	COLUMN SPIRAL		2	298'-2	622
	COLUMN SPIRAL SPACERS L 7/8 x 7/8 x 1/8		8	23'-2	130
REINFORCING STEEL - TOTAL (LBS.)					11,342

NOTE:
ALL DIMENSIONS ARE OUT TO OUT.
D = PIN DIAMETER.



CONCRETE PLACEMENT QUANTITIES			
LOCATION	PIER NO. 1	PIER NO. 2	QUANTITY
CAP & STEPS (HIGH PERFORMANCE CONCRETE)	21.3	21.3	42.6
COLUMNS (HIGH PERFORMANCE CONCRETE)	21.9	21.9	43.8
FOOTINGS	29.6	29.6	59.2
TOTAL CU. YDS.	72.8	72.8	145.6

NOTE:
CONCRETE AND REINFORCING STEEL QUANTITIES ARE INCLUDED ON THE SUMMARY OF ITEMIZED QUANTITIES SHEET.

NOTES:
1.

Unit Test Instruction for the
Design-to-Construction Data Exchange

1

12/13/23

No.

Date

Issue / Revision Notes

BIM

FOR
BRIDGES
AND STRUCTURES
TPF-5(372)

HDR

jō consulting

Unit Test Description

Level 1 Pier Cap

Unit Test / Sheet No.

L1-Br01-PierCap01 / 02