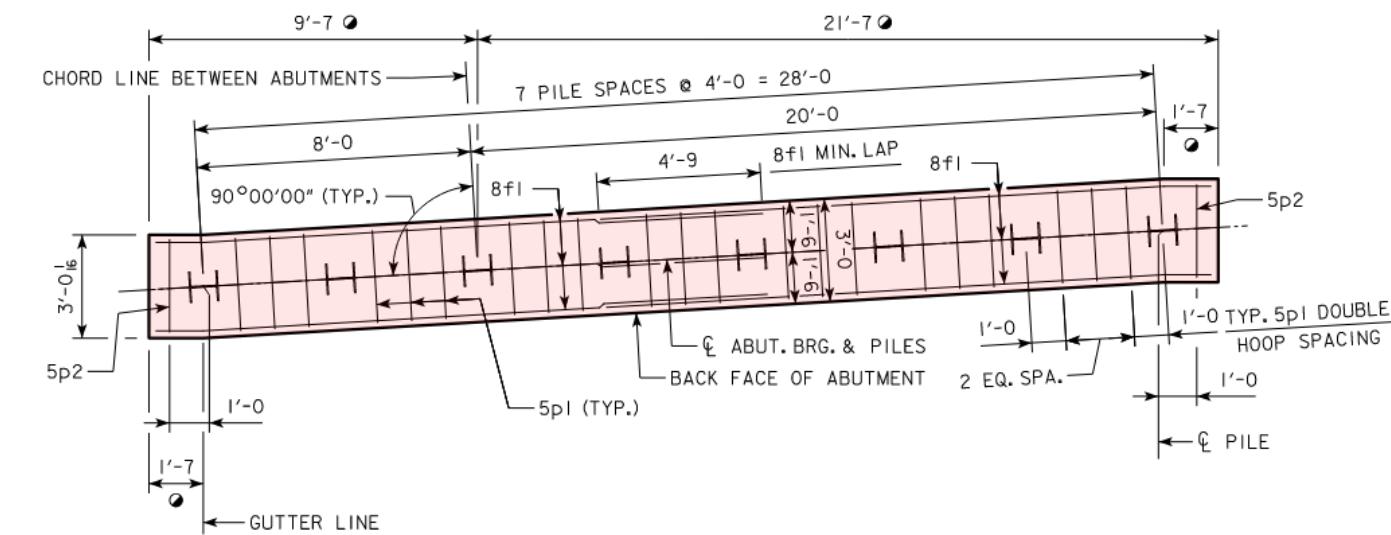
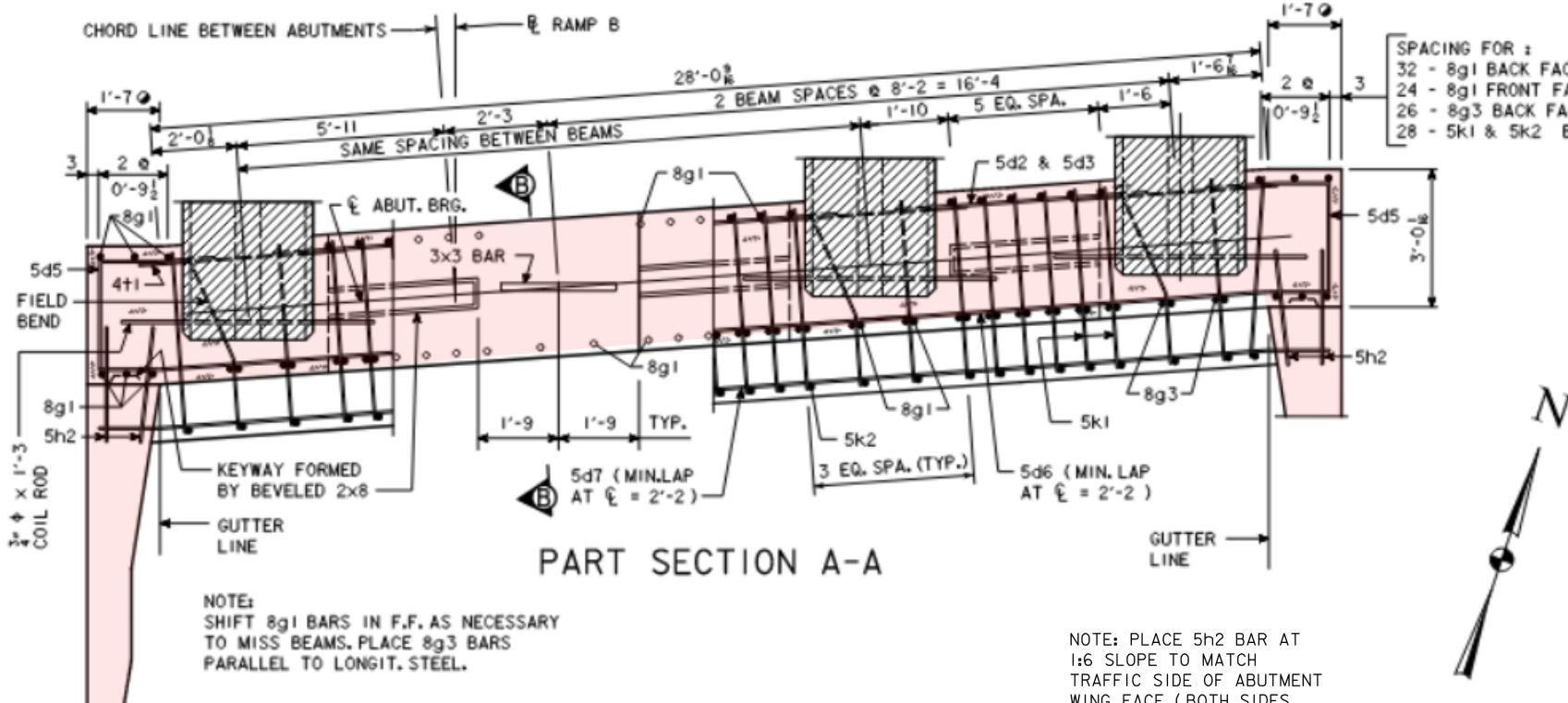


PART REAR ELEVATION AT SOUTH ABUTMENT



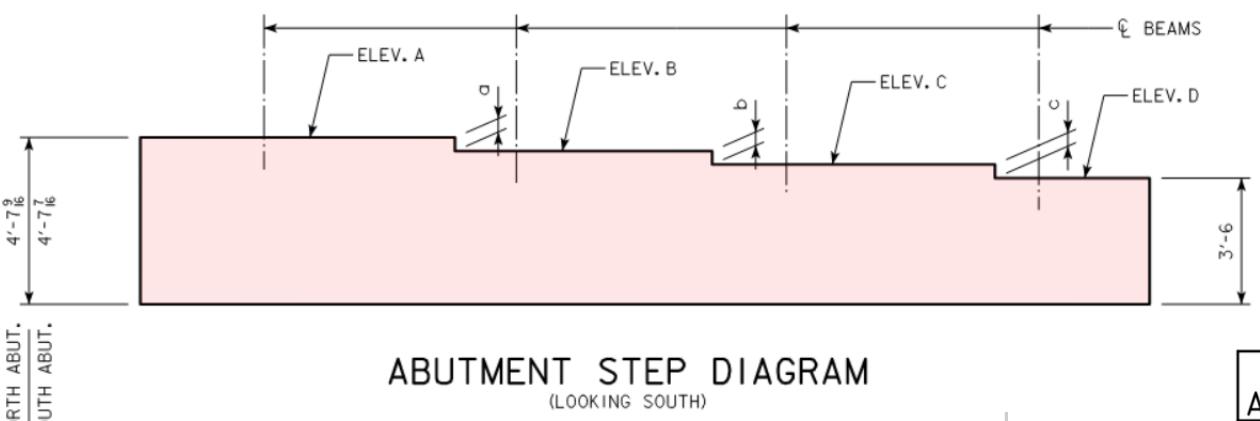
SOUTH ABUTMENT PILE PLAN



PART SECTION A-A

NOTE:
SHIFT 8g1 BARS IN F.F. AS NECESSARY
TO MISS BEAMS. PLACE 8g3 BARS
PARALLEL TO LONGIT. STEEL.

NOTE: PLACE 5h2 BAR AT
1:6 SLOPE TO MATCH
TRAFFIC SIDE OF ABUTMENT
WING FACE (BOTH SIDES
TYPICAL.)



ABUTMENT STEP DIAGRAM (LOOKING SOUTH)

ABUTMENT NOTES:

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.
IF NECESSARY TO PREVENT DAMAGE TO THE END OF THE BRIDGE DECK OR BACKWALL FROM CONSTRUCTION EQUIPMENT, AN APPROPRIATE METHOD OF PROTECTION APPROVED BY THE ENGINEER SHALL BE PROVIDED BY THE BRIDGE CONTRACTOR AT NO EXTRA COST TO THE STATE.
BARRIER RAIL NOT SHOWN IN DETAILS

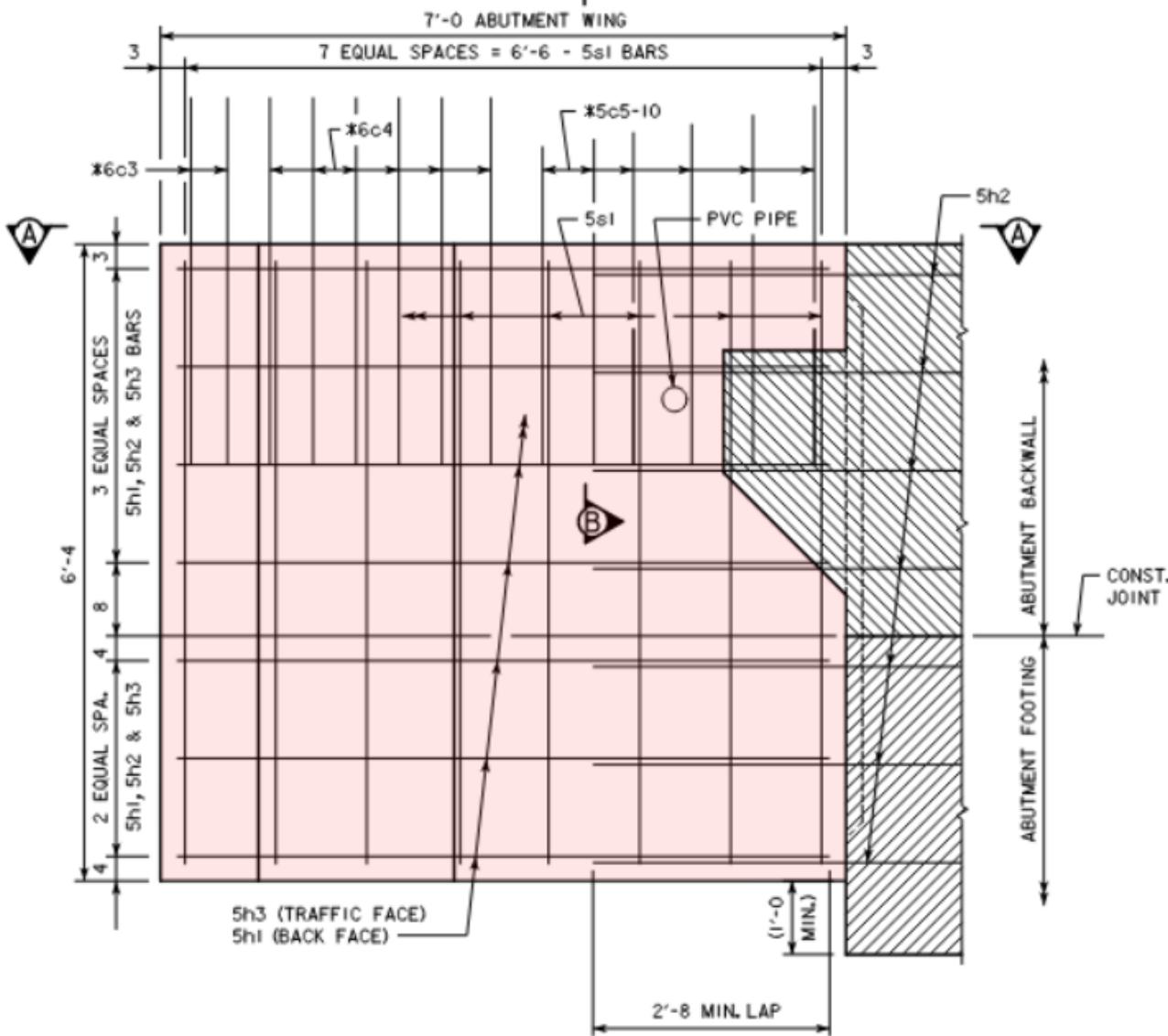
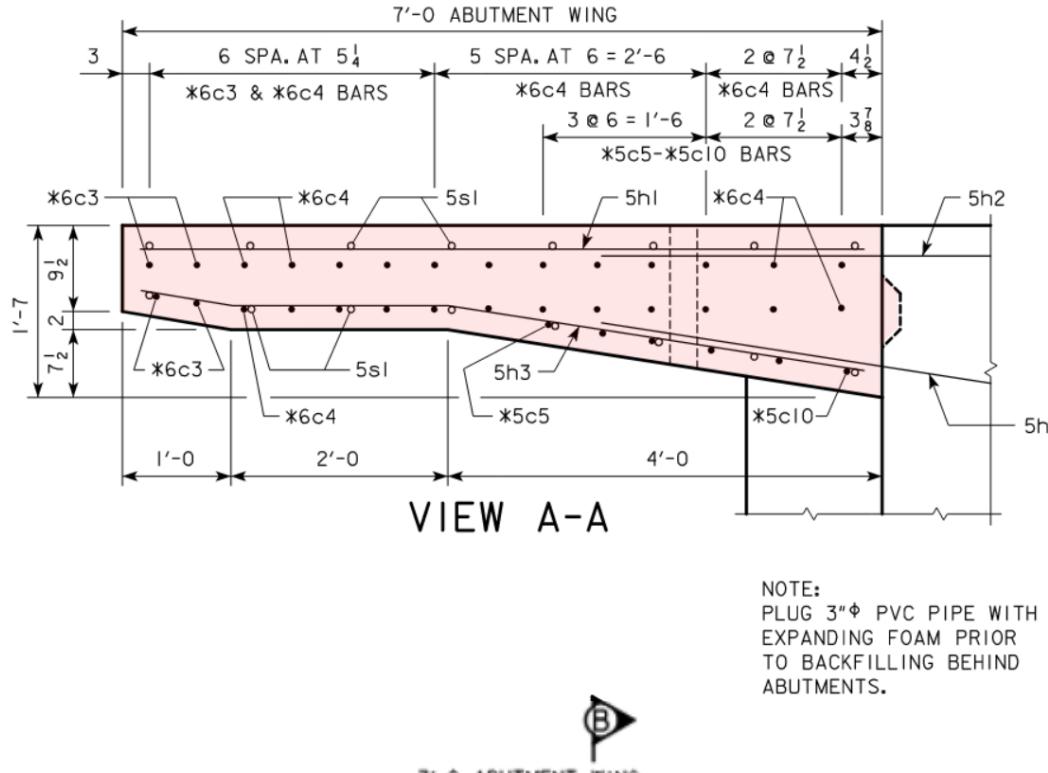
TABLE OF ABUTMENT STEPS		
STEP	NORTH ABUT.	SOUTH ABUT.
a	4 ⁹ / ₁₆	4 ¹ / ₂
b	4 ⁹ / ₁₆	4 ¹ / ₂
c	4 ⁹ / ₁₆	4 ¹ / ₂

TABLE OF ABUTMENT ELEVATIONS		
POINT	NORTH ABUT.	SOUTH ABUT.
ELEV. A	957.03	958.06
ELEV. B	956.65	957.69
ELEV. C	956.28	957.31
ELEV. D	955.90 ▲	956.94 ▲
BOTT. FTG. ELEV.	952.40	953.44

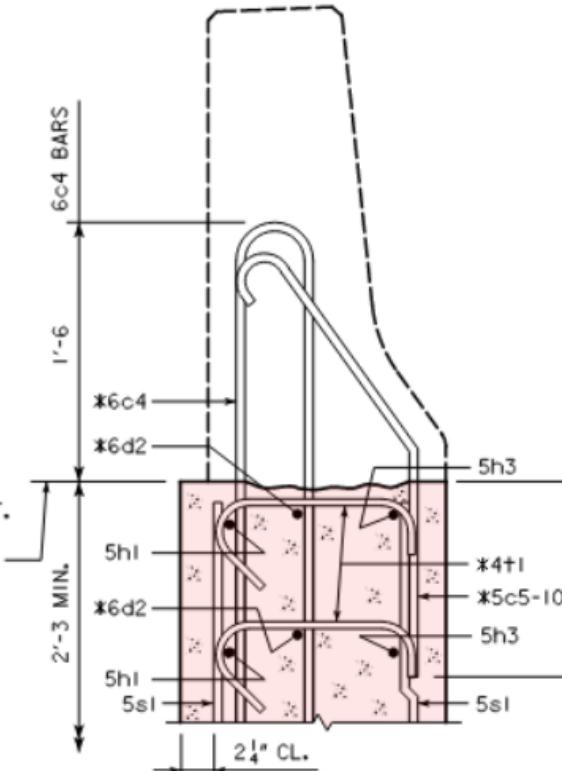
NOTES

1. Use specifications from L1-Br01-AbutmentFooting01, L1-Br01-AbutmentWing01, and L1-Br01-Pile01 for similar elements.
 2. For the full plan set and additional structure information, see Br1-Precast and Cast Concrete-Iowa DOT.pdf.
 3. Modeling and export of reinforcing is optional for Level 3.

Unit Test Instruction for the Design-to-Construction Data Exchange		
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1	01/2/24	.
No.	Date	Issue / Revision Notes
Unit Test Description Level 3 Abutment 01		
Drawn By DHC	Reviewed By MIV	Unit Test / Sheet No. L3-Br01-Abutment01 / 01



ABUTMENT WING - ELEVATION VIEW



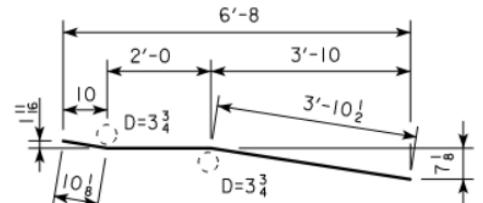
SECTION B-

* BARRIER RAIL END SECTION
BARS TO BE PLACED WITHIN
ABUTMENT WING.

SEE BARRIER RAIL END SECTION SHEET IN THESE PLANS FOR DETAILS OF REINFORCING BARS 6c3, 6c4, 5c5-10, 6d2 & 4t1

REINFORCING BAR LIST - ONE ABUT. WING

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
5h1	HORIZONTAL BACK FACE	—		6'-8	
5h3	HORIZONTAL TRAFFIC FACE	—		6'-9	
5s1	VERTICAL BOTH FACES	—		6'-0	



5h3

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

BENT BAR DETAILS

NOTES

1. Use specifications from L1-Br01-AbutmentFooting01, L1-Br01-AbutmentWing01, and L1-Br01-Pile01 for similar elements.
 2. Modeling and export of reinforcing is optional for Level 3.

Unit Test Instruction for the Design-to-Construction Data Exchange		
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1	01/2/24	.
No.	Date	Issue / Revision Notes
Unit Test Description		Unit Test / Sheet No.
Level 3 Abutment 02		
Drawn By DHC	Reviewed By MJY	L3-Br01-Abutment01 / 02



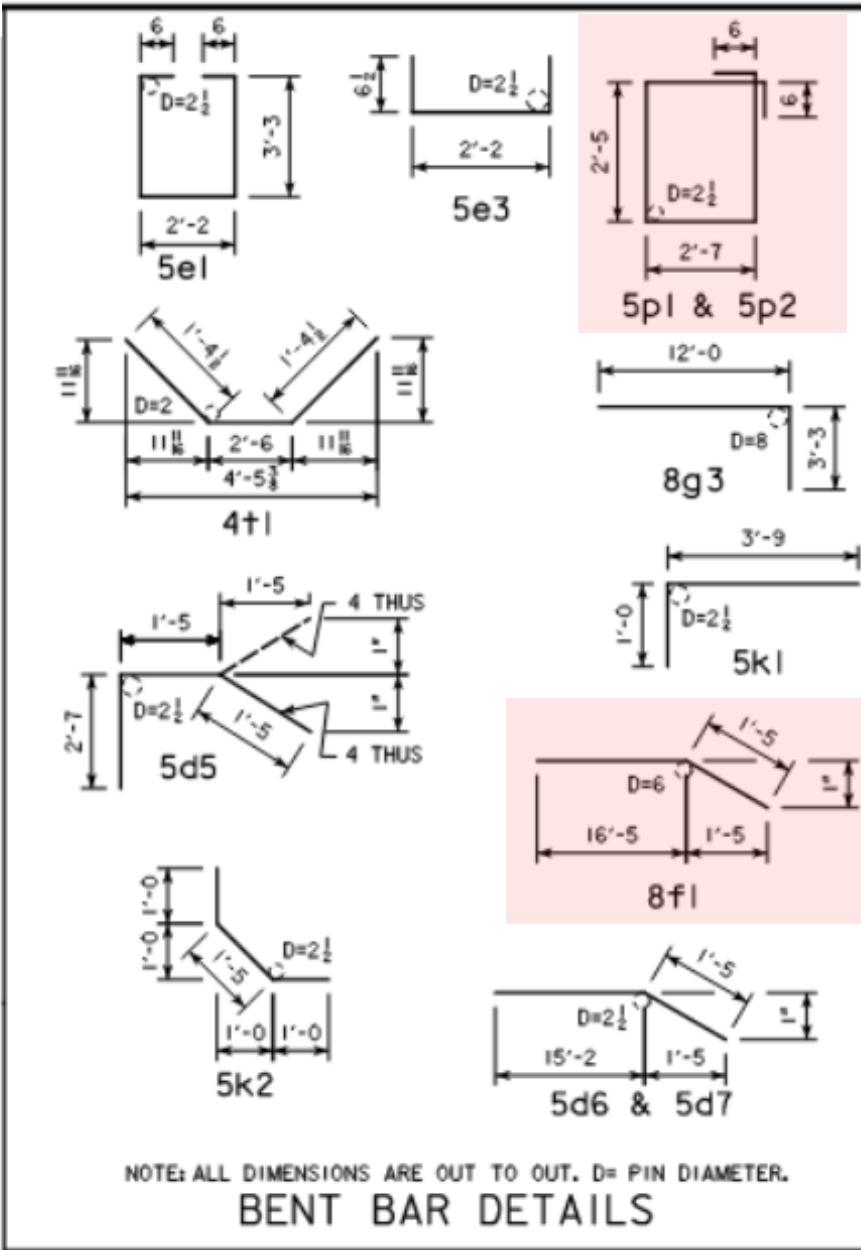


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L3-Br01-Abutment01 / 02

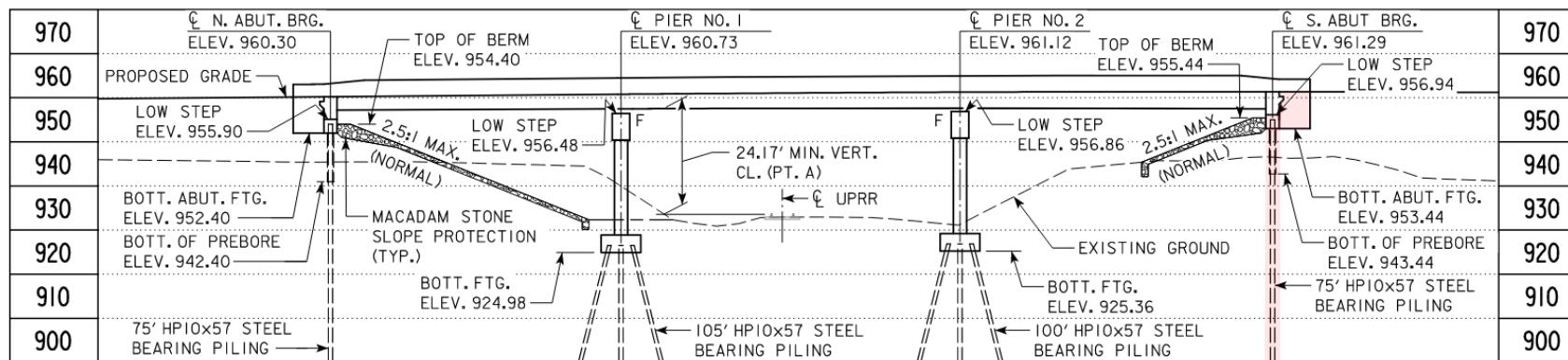


REINFORCING BAR LIST					
	BAR	LOCATION	SHAPE	NO.	LENGTH
	6a1	DECK TRANSV. TOP & BOTT.	—		30'-10
	5b1	DECK LONGIT. TOP & BOTT.	—		37'-10
	8b2	DECK LONGIT. TOP AT PIERS	—		19'-8
	8g3	ABUT. DIAPH. VERT. B.F.	—		15'-3
	6j1	TOP OF DECK TRANSV. (AT RAIL)	—		6'-3
	5d2	PIER & ABUT. DIAPH. LONGIT.	—		7'-3
	5d3	PIER & ABUT. DIAPH. LONGIT.	—		5'-5
	5d4	PIER DIAPH. LONGIT.	—		26'-8
	5d5	ABUT. DIAPH. ENDS	—		5'-5
	5d6	ABUT. DIAPH. LONGIT. B.F.	—		16'-7
	5d7	PAVING NOTCH LONGIT.	—		16'-7
	5e1	PIER DIAPH. HOOPS	□		9'-8
	5e3	PIER DIAPH. TIES	—		3'-3
	8f1	ABUT. FOOTING LONGIT. BOTH F.	—		17'-10
	8g1	ABUT. VERT. BOTH F.	—		7'-2
	5h2	ABUT. TO WING ANCHOR	—		4'-11
	5k1	PAVING NOTCH	—		4'-9
	5k2	PAVING NOTCH	—		3'-5
	5p1	ABUT. HOOPS	□		11'-0
	5p2	ABUT. HOOPS AT ENDS	□		11'-0
	4t1	UNDER BEAMS AT ABUTMENTS	✓		5'-3
#2	PILE SPIRAL	—	00000		38'-6
	SPIRAL SPACERS, L 1/2 x 1/2 x 0.70	—			1'-10

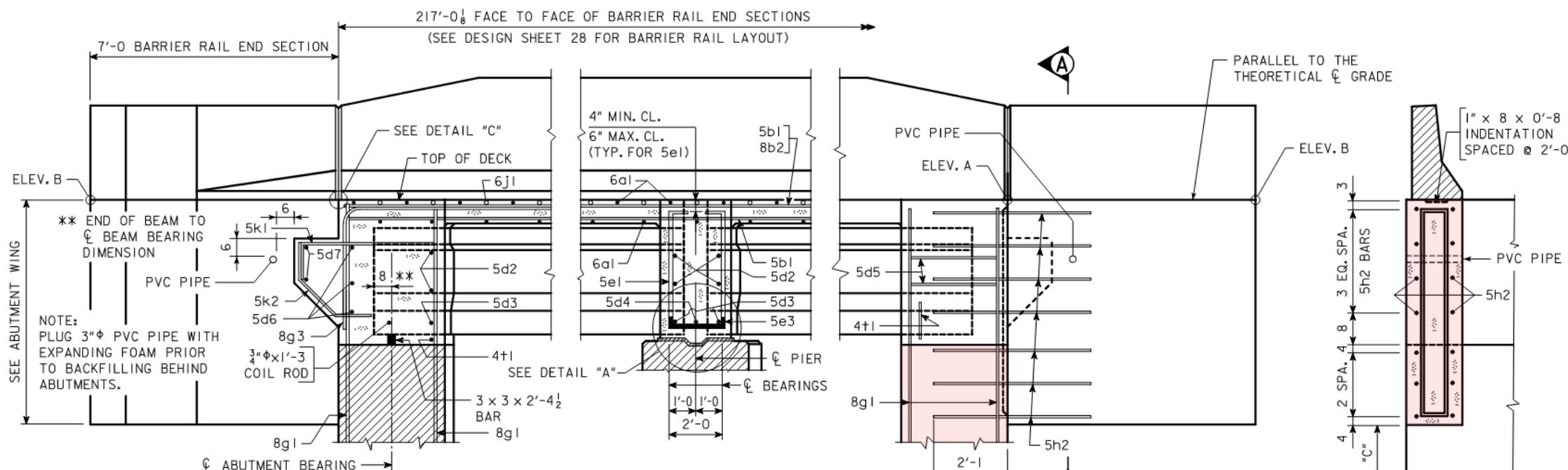
NOTES:

1. Use specifications from L1-Br01-AbutmentFooting01, L1-Br01-AbutmentWing01, and L1-Br01-Pile01 for similar elements.
2. Modeling and export of reinforcing is optional for Level 3.

Unit Test Instruction for the Design-to-Construction Data Exchange		
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1	01/2/24	.
No.	Date	Issue / Revision Notes
Unit Test Description		Unit Test / Sheet No.
Level 3 Abutment 03		
Drawn By	Reviewed By	
DHC	MJY	
L3-Br01-Abutment01 / 03		



LONGITUDINAL SECTION ALONG B RAMP B



PART LONGITUDINAL SECTION NEAR GUTTER

(FOR DETAILS OF INTERMEDIATE DIAPHRAGM SEE DESIGN SHEETS 23 & 24)

PART END VIEW AT ABUTMENT

TABLE OF WING ELEVATIONS			
LOCATION	DIM "C"	ELEV. A	ELEV. B
SOUTH ABUT. @ WEST GUTTER LINE	1'-1 $\frac{7}{8}$	960.93	960.93
NORTH ABUT. @ WEST GUTTER LINE	1'-1 $\frac{5}{8}$	959.92	959.87
SOUTH ABUT. @ EAST GUTTER LINE	2'-5 $\frac{3}{8}$	962.21	962.22
NORTH ABUT. @ EAST GUTTER LINE	2'-5 $\frac{1}{4}$	961.21	961.17

DETAILS SHOWN ON THIS SHEET ARE APPLICABLE TO THE NORTH ABUTMENT AND PIER NO. 1. THE SOUTH ABUTMENT AND PIER NO. 2 ARE SIMILAR BUT OPPOSITE HAND.

NOTES:

1. Use specifications from L1-Br01-AbutmentFooting01, L1-Br01-AbutmentWing01, and L1-Br01-Pile01 for similar elements.
2. Modeling and export of reinforcing is optional for Level 3.

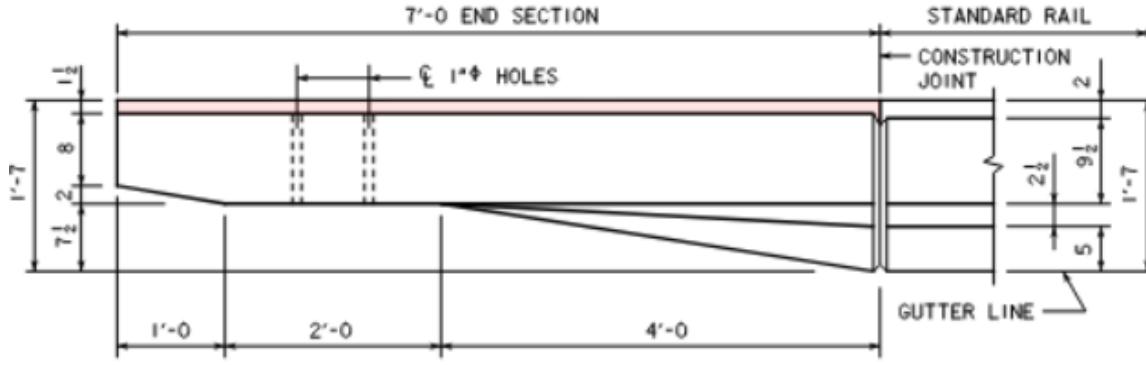
Unit Test Instruction for the Design-to-Construction Data Exchange		
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No.	Date	Issue / Revision Notes
Unit Test Description		Unit Test / Sheet No.
Level 3 Abutment 04		
Drawn By	Reviewed By	
DHC	MJY	

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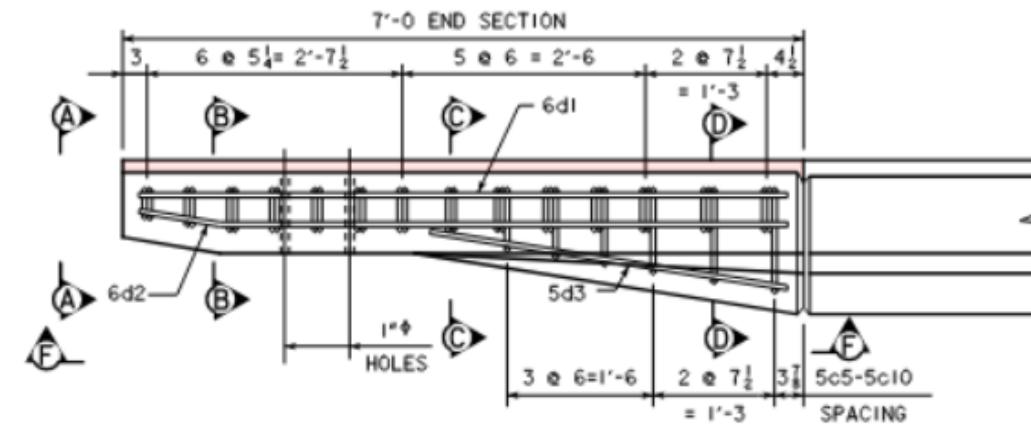
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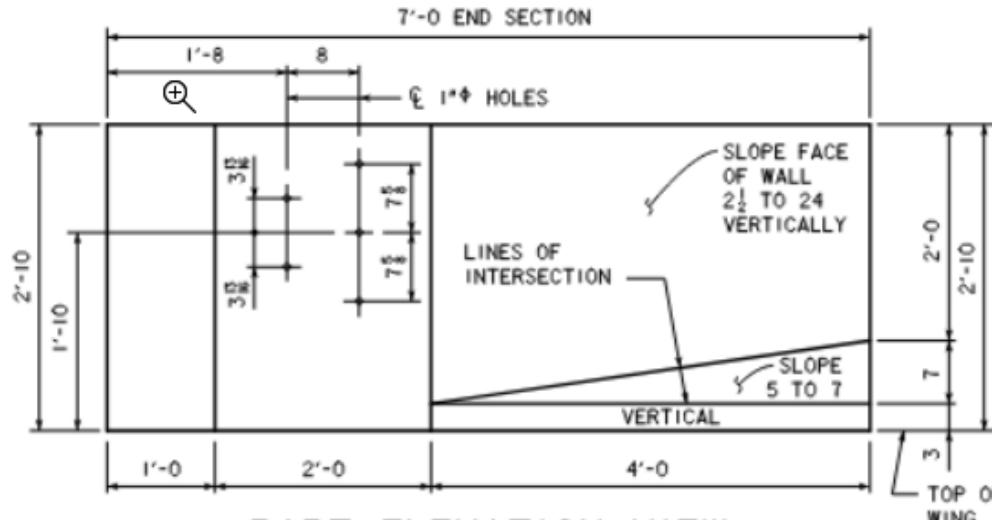
L3-Br01-Abutment01 / 04



PART PLAN VIEW

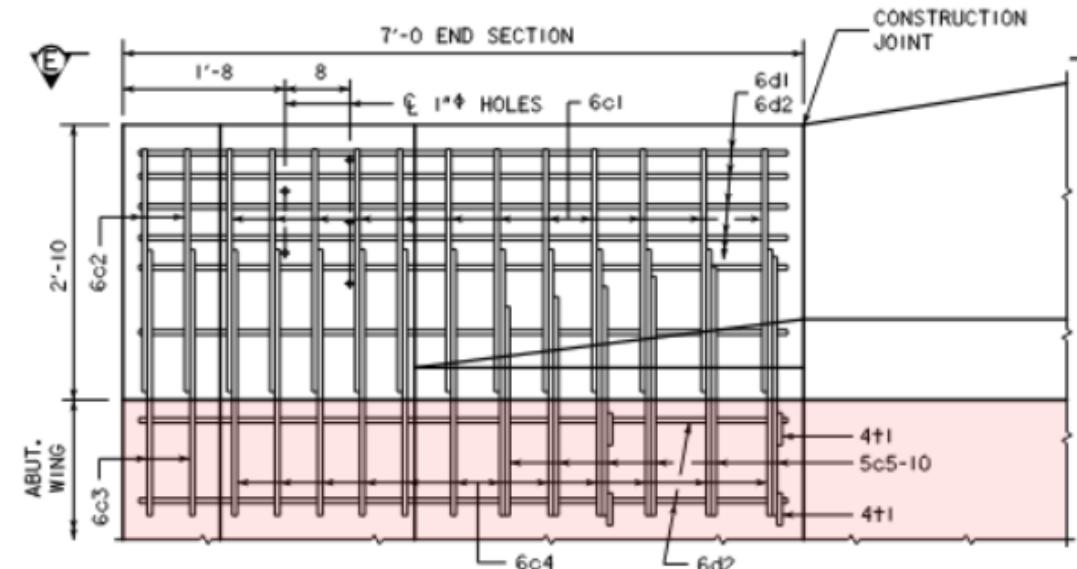


PART VIEW E-E

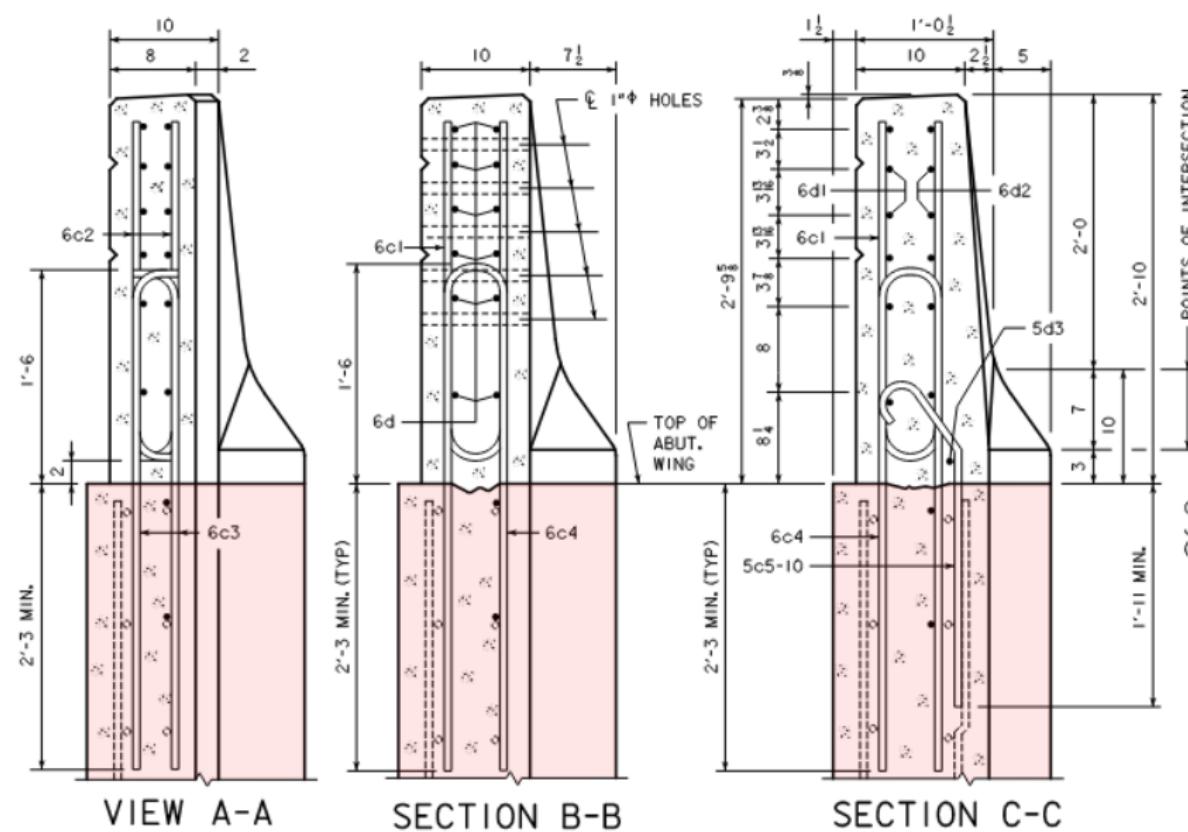


PART ELEVATION VIEW

PROVIDE 5 HOLES FORMED WITH 1"φ PLASTIC CONDUIT. COST TO BE INCLUDED IN PRICE BID FOR CONCRETE BARRIER RAILING.



PART VIEW F-F



NOTE:
4t1 PLACEMENT - 2 BARS EACH LEVEL OF 6d2 IN WING FOOTING.

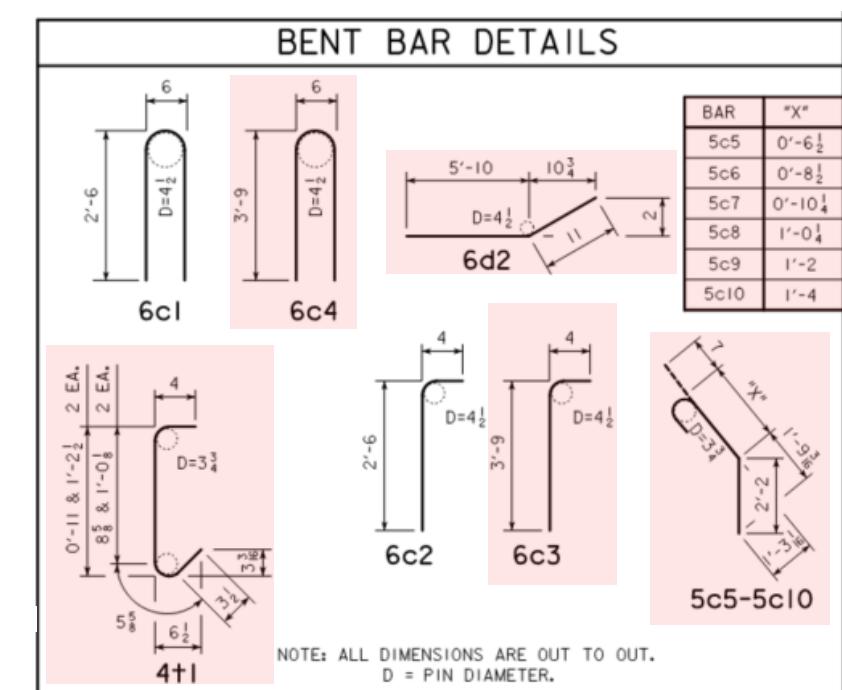
NOTE:
CONSTRUCTION JOINT BETWEEN TOP OF WING AND BARRIER RAIL IS ROUGHENED CONCRETE.

NOTE:
THE 10" RADIUS AND 1 1/2" RADIUS ARE TYPICAL AND SHALL BE USED WHEN CONSTRUCTING THE CORNERS FOR VIEW A-A, SECTION B-B, SECTION C-C AND SECTION D-D.

NOTE:
THE 6c4, 6c3, 5c5-10, 2 - 6d2 AND 4t1 BARS ARE TO BE PLACED WITH THE ABUTMENT WING. THE DETAILS FOR PLACEMENT ARE SHOWN ON THE WING ABUTMENT SHEET.

NOTE:
DASHED LINES BELOW THE TOP OF WING ARE THE ABUTMENT WING REINFORCING STEEL. SEE WING ABUTMENT SHEET FOR PLACEMENT.

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
6c1	RAIL, VERTICAL	I		5'-6	
6c2	RAIL, VERTICAL	I		2'-10	
6c3	RAIL, VERTICAL	I		4'-1	
6c4	RAIL, VERTICAL	I		8'-0	
5c5-10	RAIL, VERTICAL	I		VARIES	
6d1	RAIL, HORIZONTAL	—		6'-8	
6d2	RAIL, HORIZONTAL	—		6'-9	
5d3	RAIL, HORIZONTAL	—		3'-9	
4t1	RAIL, ABUTMENT WING TIE BARS	U		VARIES	



NOTES:

1. Use specifications from L1-Br01-AbutmentFooting01, L1-Br01-AbutmentWing01, and L1-Br01-Pile01 for similar elements.
2. Modeling and export of reinforcing is optional for Level 3.

Unit Test Instruction for the Design-to-Construction Data Exchange		
1	01/2/24	Issue / Revision Notes
No.	Date	Unit Test / Sheet No.
Unit Test Description		Level 3 Abutment 05
Drawn By	Reviewed By	
DHC	MJY	

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