

FIELD

ISOMETRIC VIEW

ERECTOR'S NOTE
 STEEL IS FABRICATED WITH "ERECTION MARKS"
 ON LEFT HAND END OF MEMBERS

THIS PLAN IS TO BE USED FOR THE SETTING OF
 STRUCTURAL & MISC. STEEL ONLY. IF H.S.I.'s
 ANCHOR BOLT SETTING PLANS WERE "NOT"
 FOLLOWED, THEN H.S.I. WILL "NOT" BE RESPONSIBLE
 FOR STEEL THAT WILL NOT FIT OR IS UNABLE
 TO BE PLUMBED...

THIS PROJECT SHALL BE ERECTED PER THE AISC CODE OF STANDARD PRACTICE
 SPECIFICALLY PARAGRAPH 7.12 AS FOLLOWS:
 7.12 CORRECTION OF ERRORS
 NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS
 BY MODERATE AMOUNTS OF REAMING, CHIPPING, WELDING OR CUTTING, AND THE
 DRAWING OF ELEMENTS INTO LINE THROUGH THE USE OF DRIFT PINS. ERRORS WHICH
 CANNOT BE CORRECTED BY THE FOREGOING MEANS, OR WHICH REQUIRE MAJOR
 CHANGES IN MEMBER CONFIGURATIONS, ARE TO BE REPORTED TO THE OWNER AND
 FABRICATOR BY THE ERECTOR, TO ENABLE WHOEVER IS RESPONSIBLE EITHER TO
 CORRECT THE ERROR OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD
 OF CORRECTION TO BE USED BY OTHERS.
 NO BACKCHARGES WILL BE ACCEPTED UNLESS APPROVED IN WRITING BY THIS
 OFFICE.

REV.	DATE	DESCRIPTION	APPROVAL	PRINTS	NO.	DATE
0	01-07	FOR FIELD	FIELD			
A	12-29	FOR APPROVAL	APPROVAL			

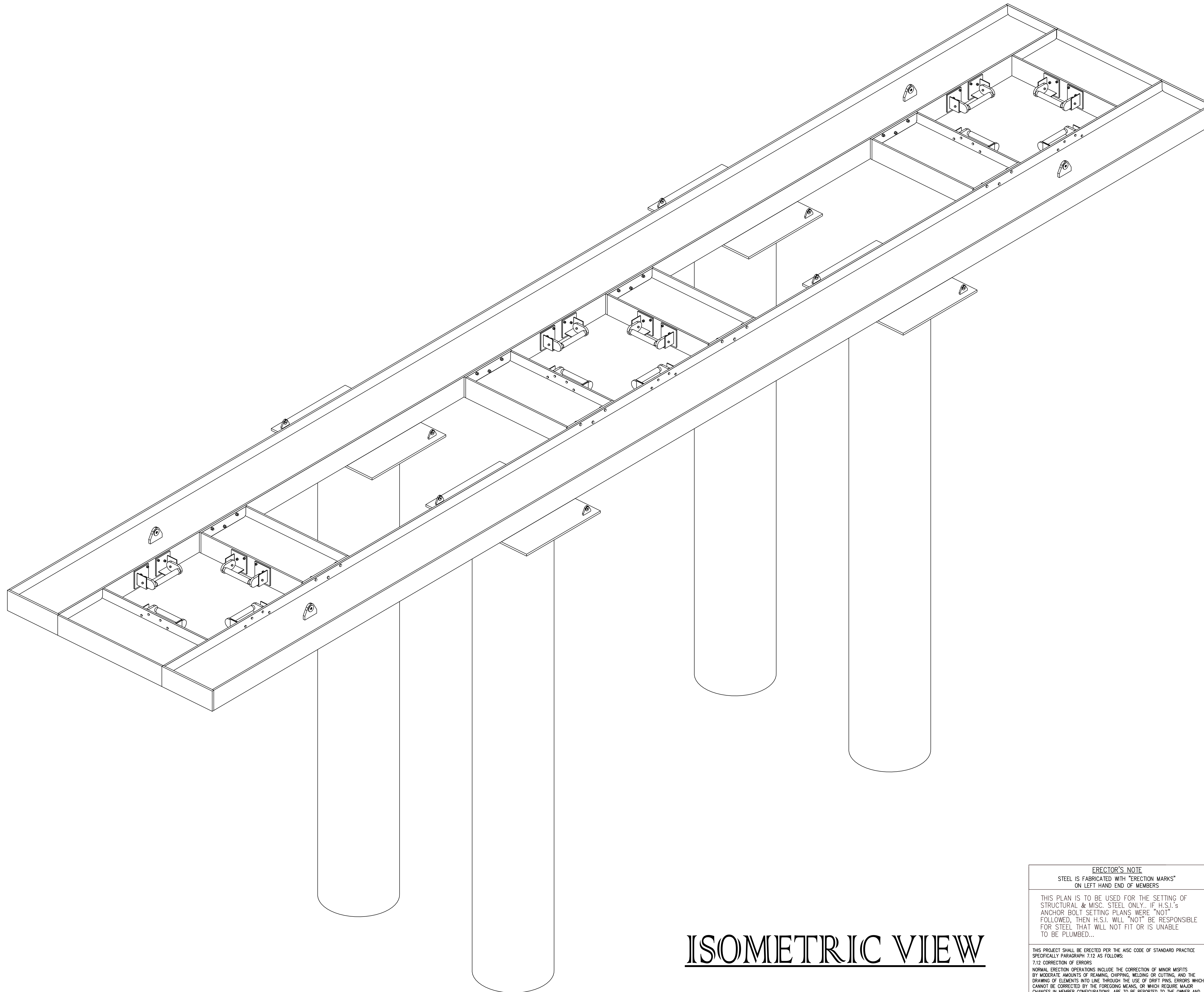
JOB: Pin Piles + Cap Beams

LOCATION: Chesapeake Bay Bridge - Tunnel Project

CUSTOMER:

DRWG. COVERS: ISOMETRIC VIEW

DETAILER: JB	DATE: 12-25-21	JOB NO.	DRWG. NO.
CHECKER: ALN	DATE: 12-25-21		V100



FIELD

ISOMETRIC VIEW

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A	12-29	FOR APPROVAL	APPROVAL			

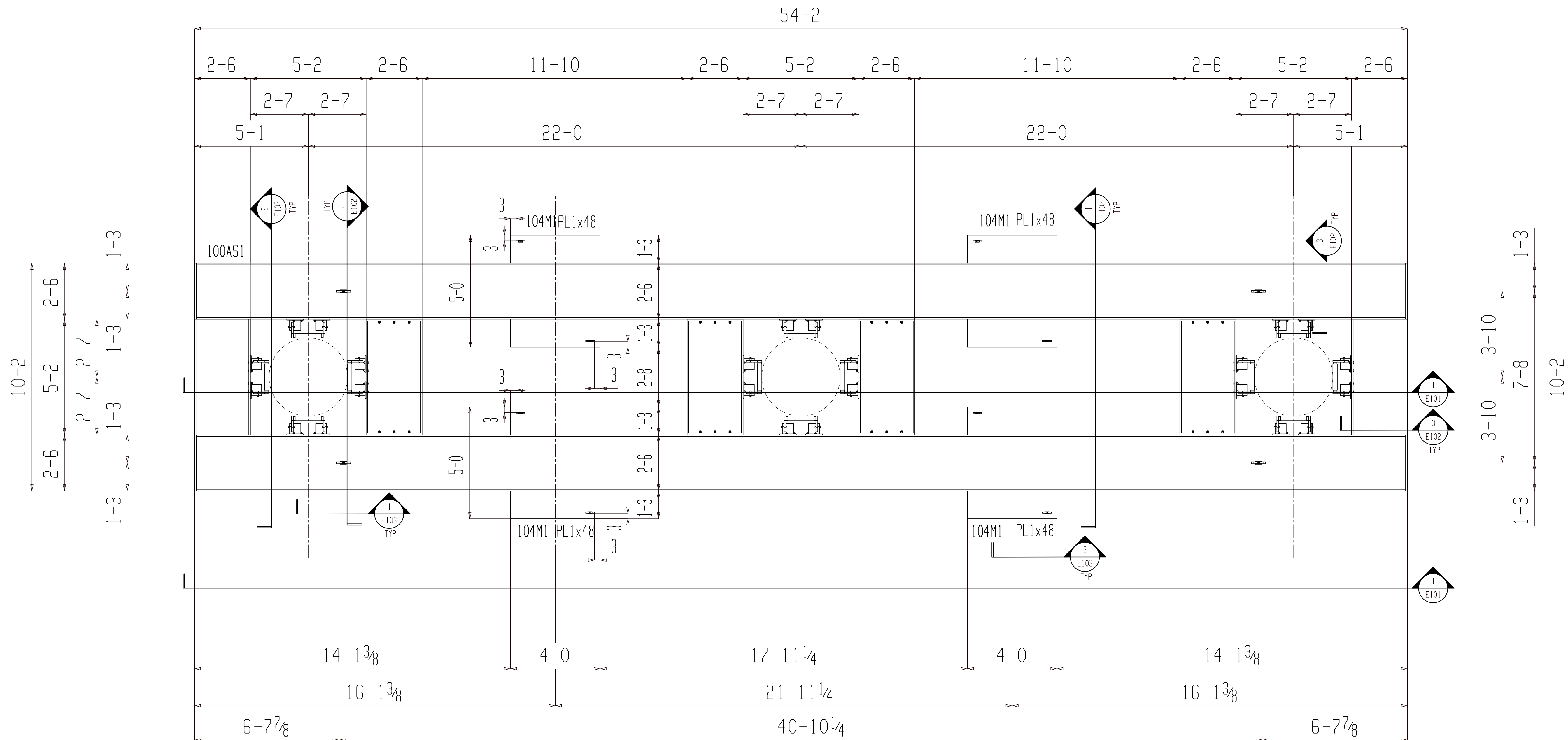
JOB: Pin Piles + Cap Beams

LOCATION: Chesapeake Bay Bridge - Tunnel Project

CUSTOMER:

DRWG. COVERS: ISOMETRIC VIEW

DETAILER: JB	DATE: 12-25-21	JOB NO.	DRWG. NO.
CHECKER: ALN	DATE: 12-25-21		V101



FIELD

PILE DRIVING TEMPLATE PLAN VIEW

(REFER: A101, A102 & A103)

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0	01-07	FOR FIELD	FIELD			
A	12-29	FOR APPROVAL	APPROVAL			

JOB: Pin Piles + Cap Beams

LOCATION: Chesapeake Bay Bridge - Tunnel Project

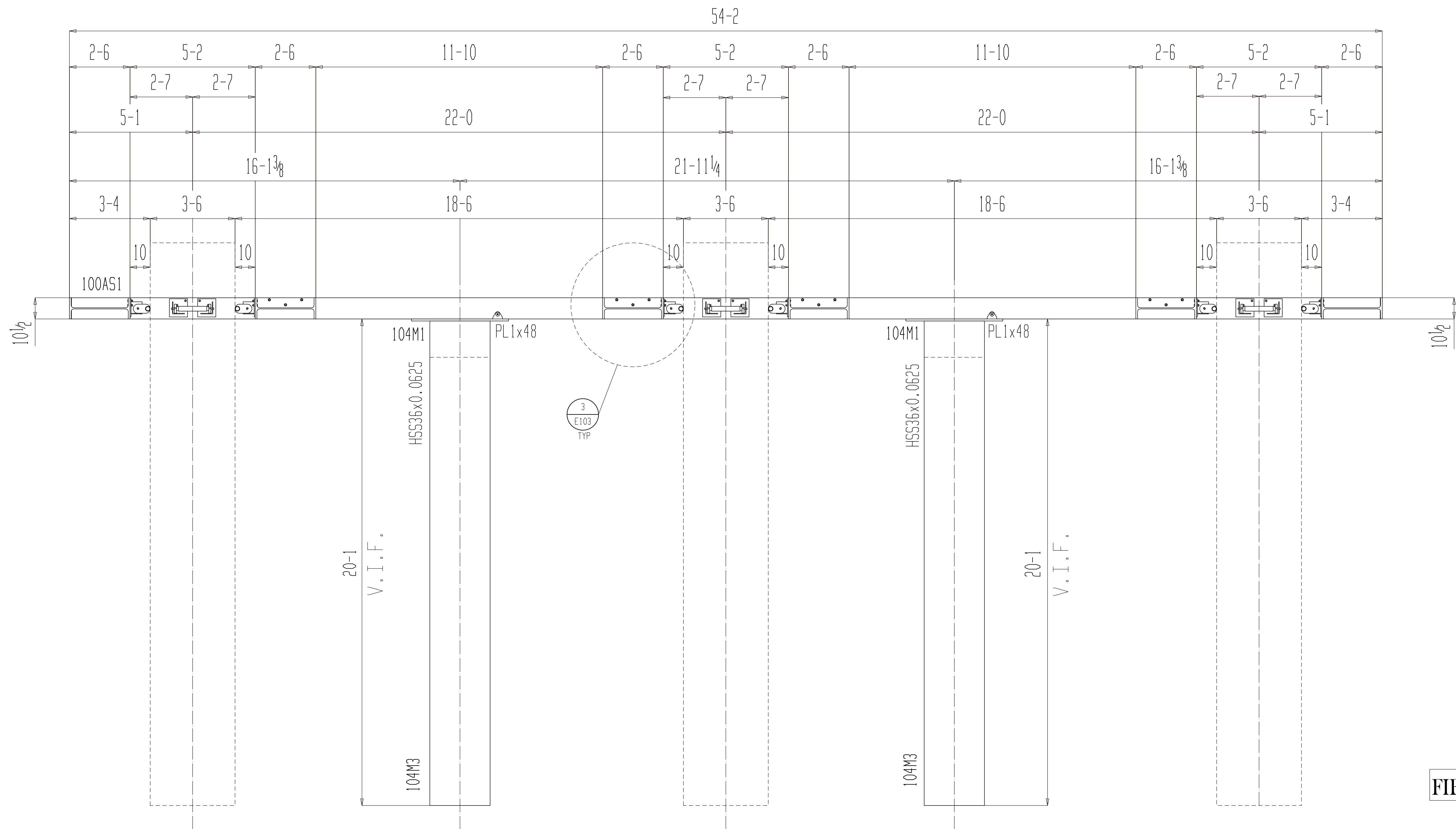
CUSTOMER: PILE DRIVING TEMPLATE MEMBER ARRANGEMENT

DRWG. COVERS: PILE DRIVING TEMPLATE MEMBER ARRANGEMENT

DETAILER: JB DATE: 12-25-21

CHECKER: ALN DATE: 12-25-21

JOB NO. DRWG. NO. E100



FIELD

1
E101

SECTION VIEW

(REFER: 1/A-101)

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0	01-07	FOR FIELD	FIELD			
A	12-29	FOR APPROVAL	APPROVAL			

JOB: Pin Piles + Cap Beams

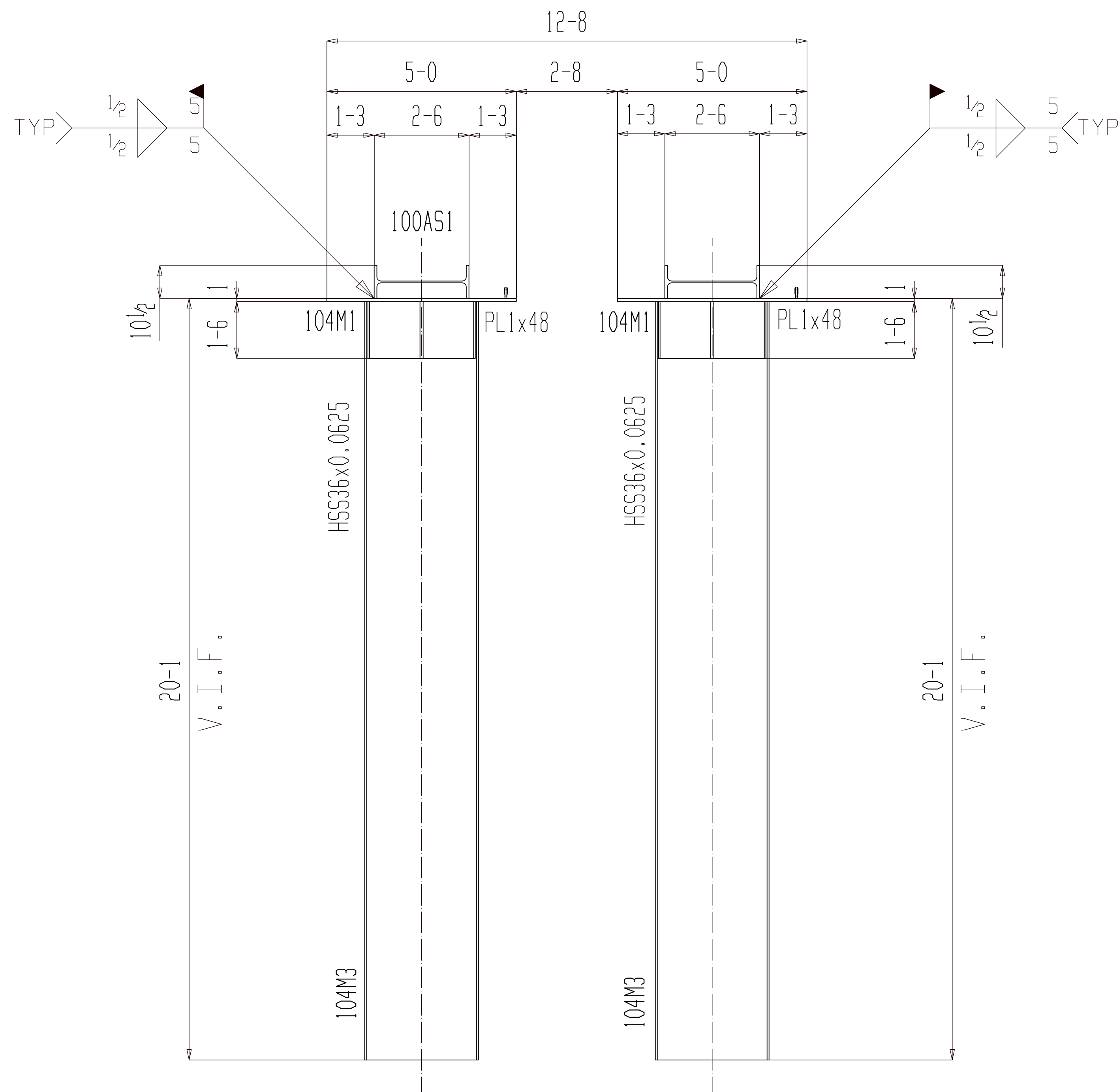
LOCATION: Chesapeake Bay Bridge - Tunnel Project

CUSTOMER: PILE DRIVING TEMPLATE MEMBER ARRANGEMENT

DRWG. COVERS: PILE DRIVING TEMPLATE MEMBER ARRANGEMENT

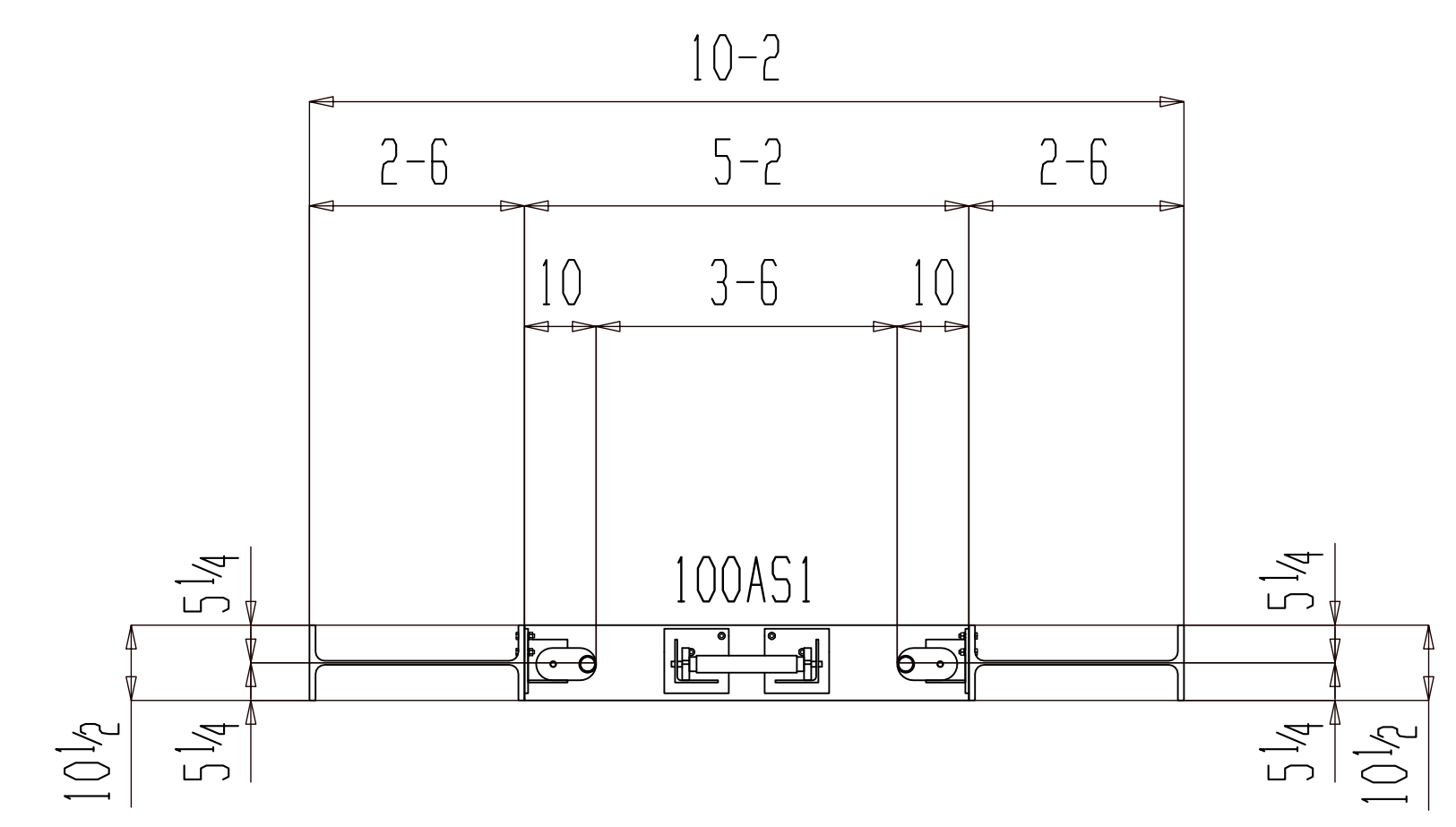
DETAILER: JB DATE: 12-25-21
 CHECKER: ALN DATE: 12-25-21

JOB NO. DRWG. NO.
 E101



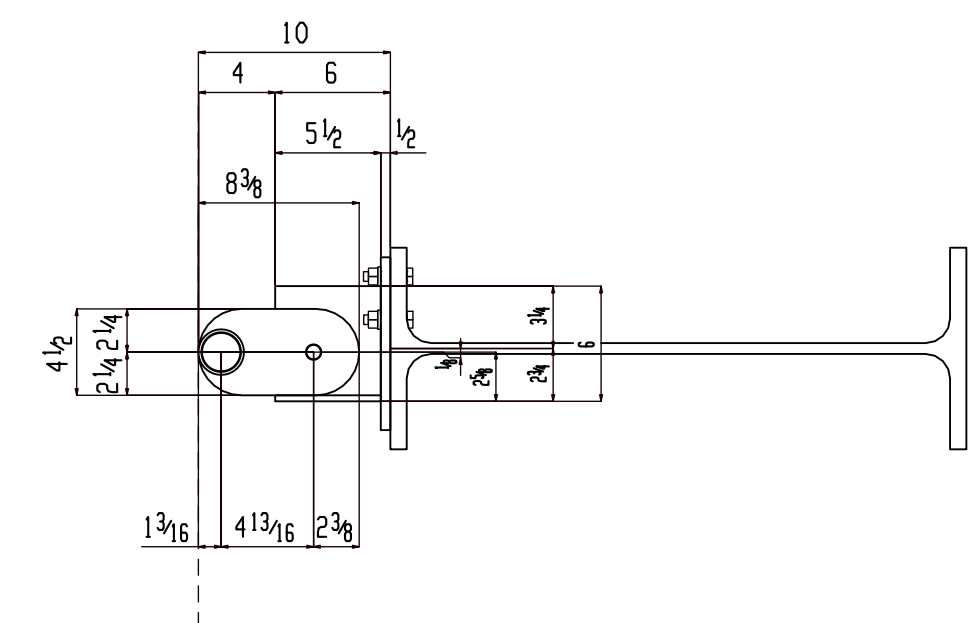
1
E102

SECTION VIEW
(REFER: 2/A-101)



2
E102

SECTION VIEW
(REFER: 1/A-105)



3
E102

SECTION VIEW
(REFER: 5/A-105)

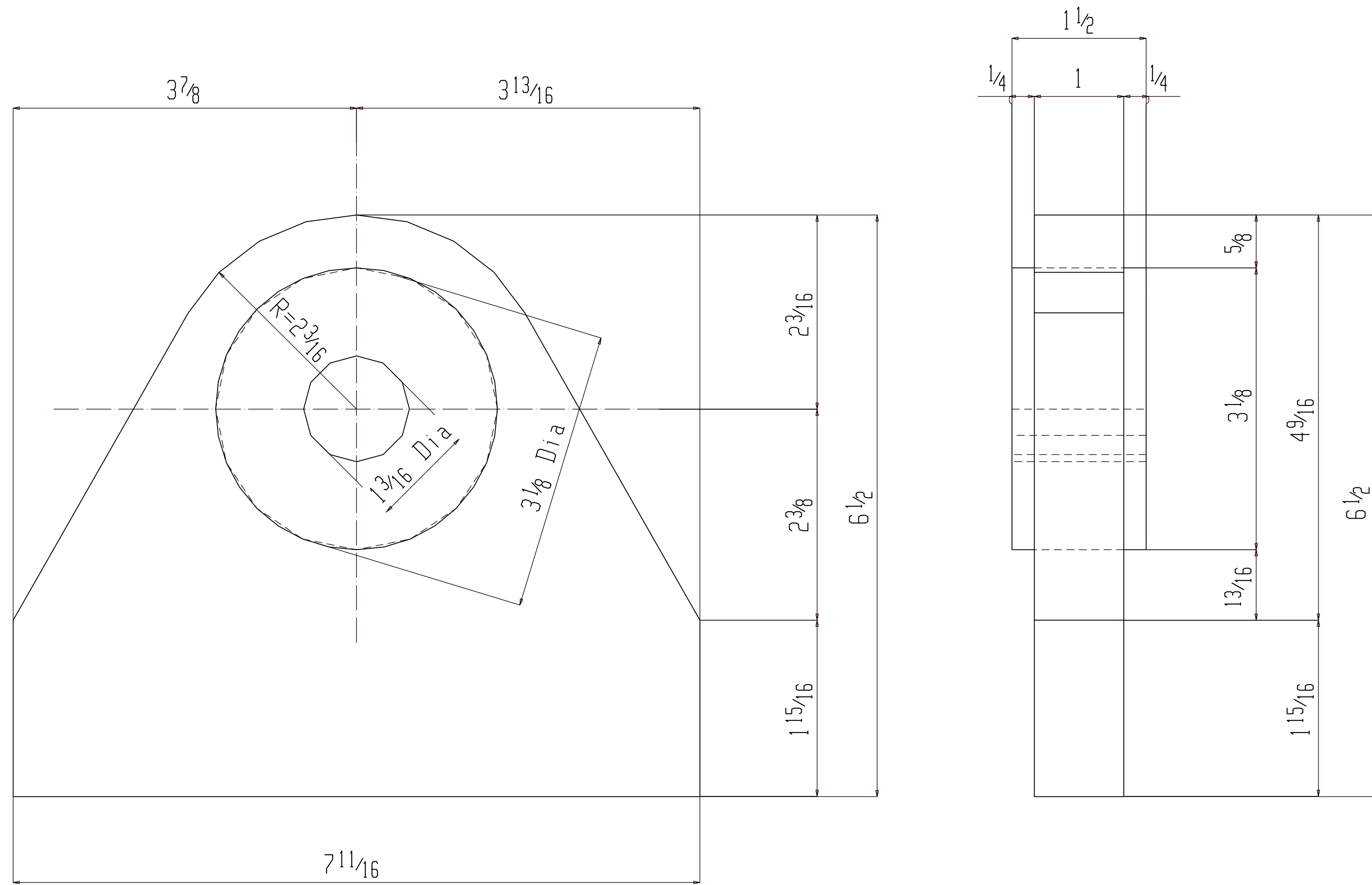
FIELD

ERECTOR'S NOTE
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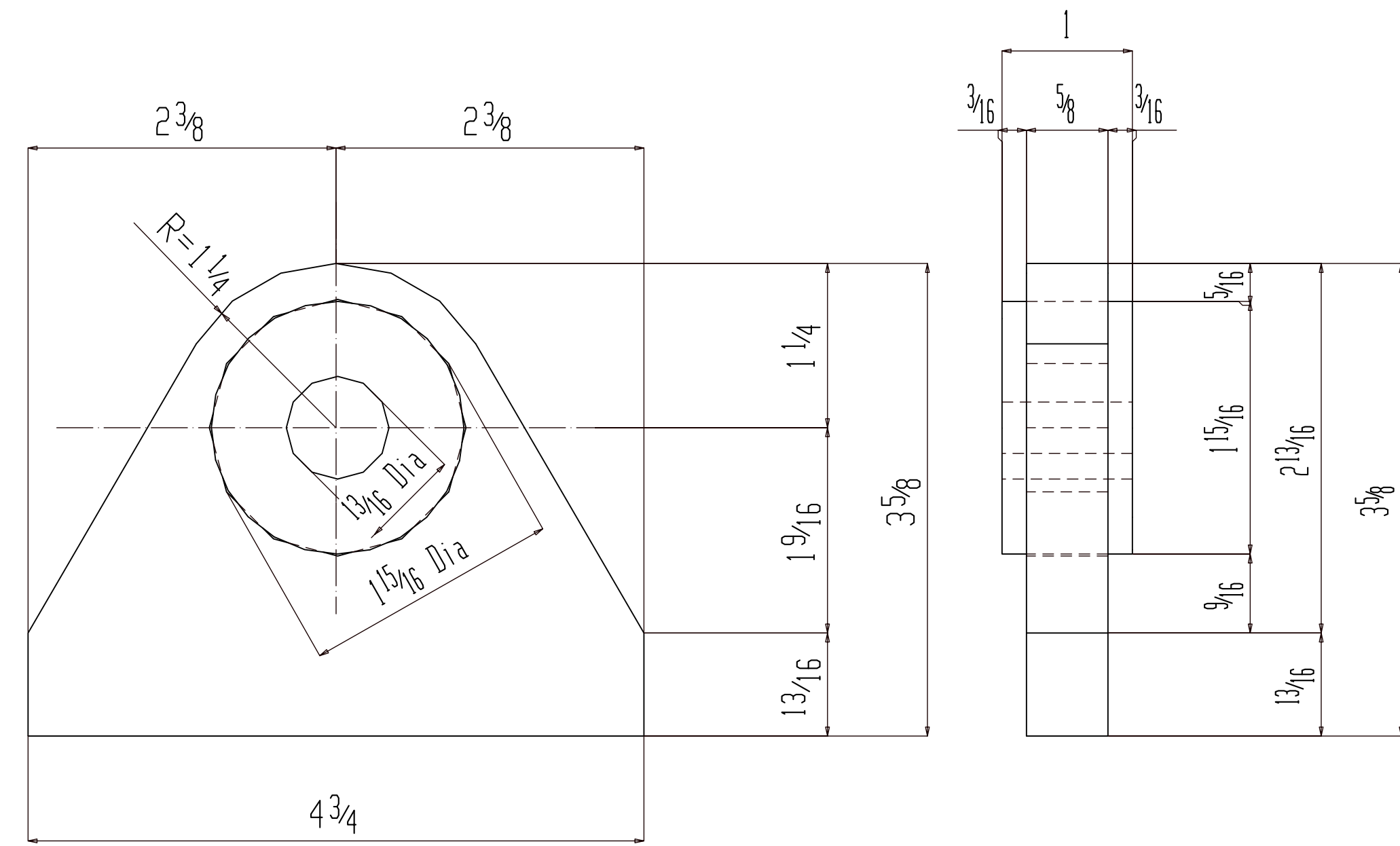
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0	01-07	FOR FIELD	FIELD		
A	12-29	FOR APPROVAL	APPROVAL		
REV.	DATE	DESCRIPTION	PRINTS	NO.	DATE
JOB: Pin Piles + Cap Beams					
LOCATION: Chesapeake Bay Bridge - Tunnel Project					
CUSTOMER: PILE DRIVING TEMPLATE MEMBER ARRANGEMENT					
DETAILER: JB			DATE: 12-25-21		
CHECKER: ALN			DATE: 12-25-21		
				JOB NO.	DRWG. NO.
					E102



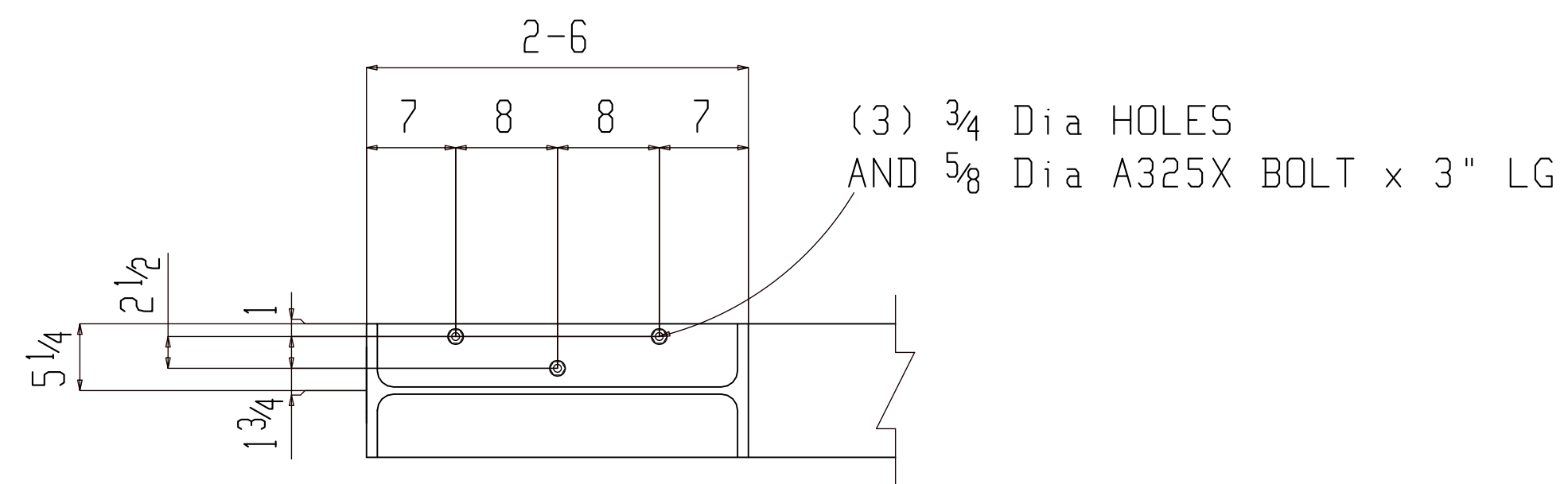
TECHNIK DESIGN
8500kg or SIMILAR

1 PADEYE DETAIL
E103 (REFER: 6/A-102 & 7/A-102)



TECHNIK DESIGN
3250kg or SIMILAR

2 PADEYE DETAIL
E103 (REFER: 5/A-103 & 6/A-103)



3 ENDPLATE BOLT DETAIL
E103 (REFER: 3/A-104)

FIELD

ERECTOR'S NOTE
STEEL IS FABRICATED WITH "ERECTION MARKS" ON LEFT HAND END OF MEMBERS

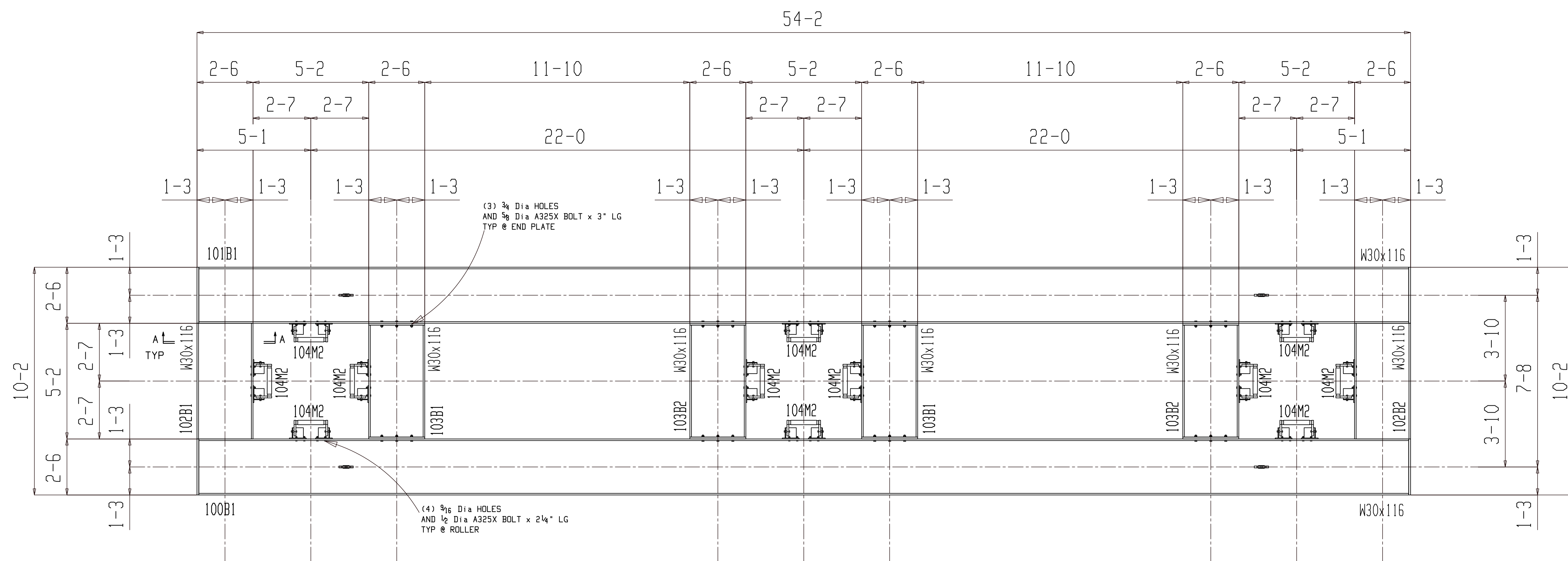
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A	12-29	FOR APPROVAL	APPROVAL		
REV.	DATE	DESCRIPTION	PRINTS	NO.	DATE
JOB: Pin Piles + Cap Beams					
LOCATION: Chesapeake Bay Bridge - Tunnel Project					
CUSTOMER: PILE DRIVING TEMPLATE MEMBER ARRANGEMENT					
DRWG. COVERS: PILE DRIVING TEMPLATE MEMBER ARRANGEMENT					
DETAILER: JB	DATE: 12-25-21	JOB NO.		DRWG. NO.	
CHECKER: ALN	DATE: 12-25-21			E103	

BILL OF MATERIAL

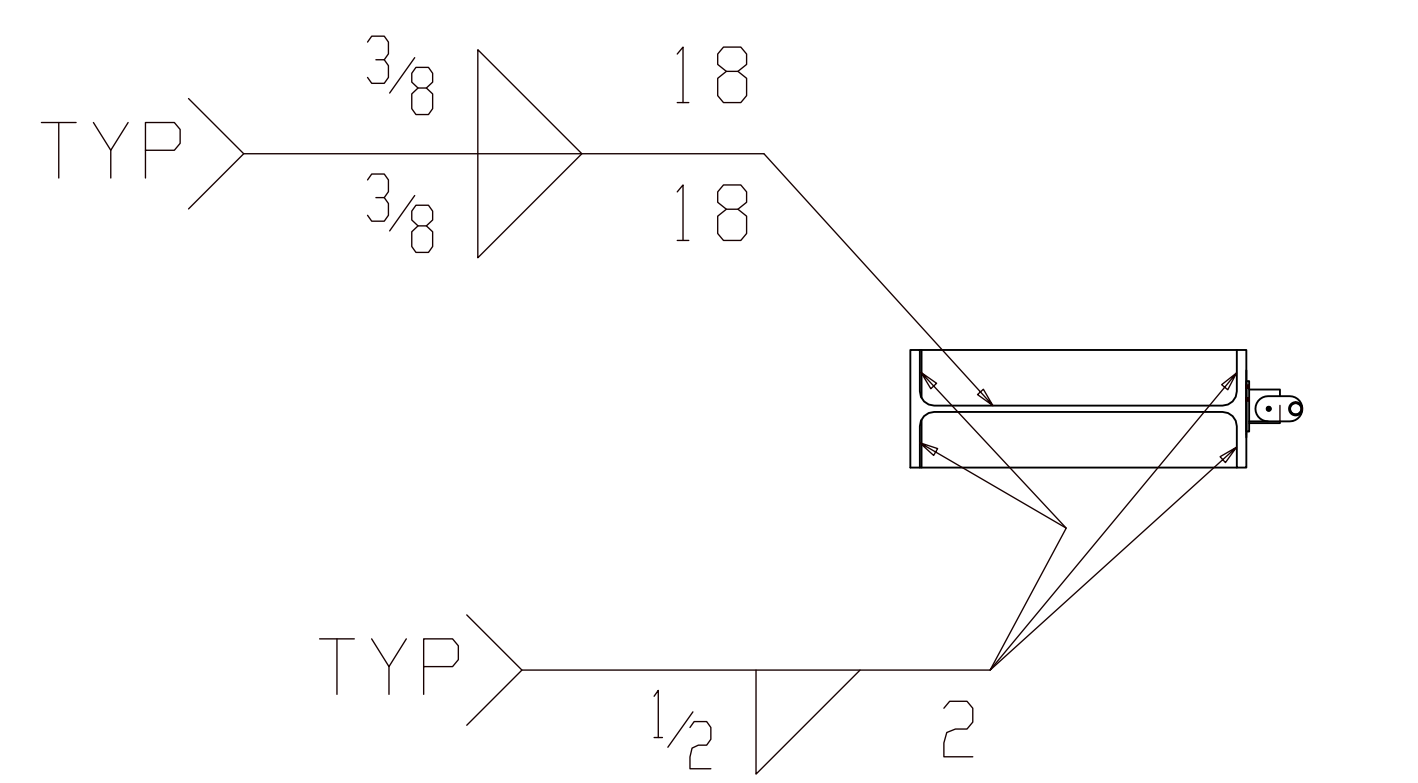
NO.	RE	ASSY	MATERIAL	LENGTH	REMARKS
ONE			ASSEMBLY		
1	100AS1		ASSEMBLY		
1	100B1		BEAM		
1	101B1		BEAM		
1	102B1		BEAM		
1	102B2		BEAM		
2	103B1		BEAM		
2	103B2		BEAM		
12	104M2		ROLLER		



ONE ASSEMBLY 100AS1

(E REFER: E100)

NO PAINT



Section A-A
100AS1

FABRICATION

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SHOP NOTE:
BOLT HEADS SHALL BE ON THE EXTERIOR/EXPOSED FACE WHEN APPLICABLE.

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0	01-07	FOR FABRICATION		FIELD		
A	12-29	FOR APPROVAL		APPROVAL		

JOB: Pin Piles + Cap Beams

LOCATION: Chesapeake Bay Bridge - Tunnel Project

CUSTOMER: _____

DRWG. COVERS: CAB BEAM ASSEMBLY DETAIL

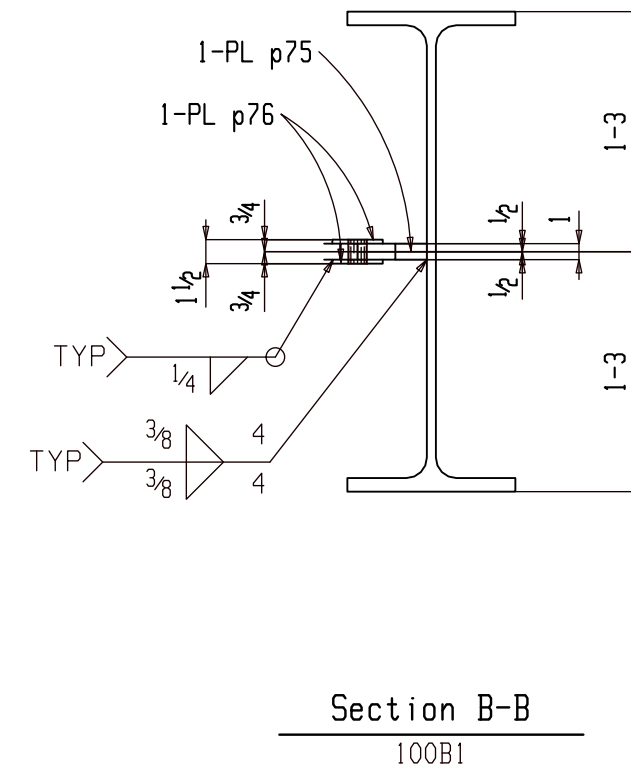
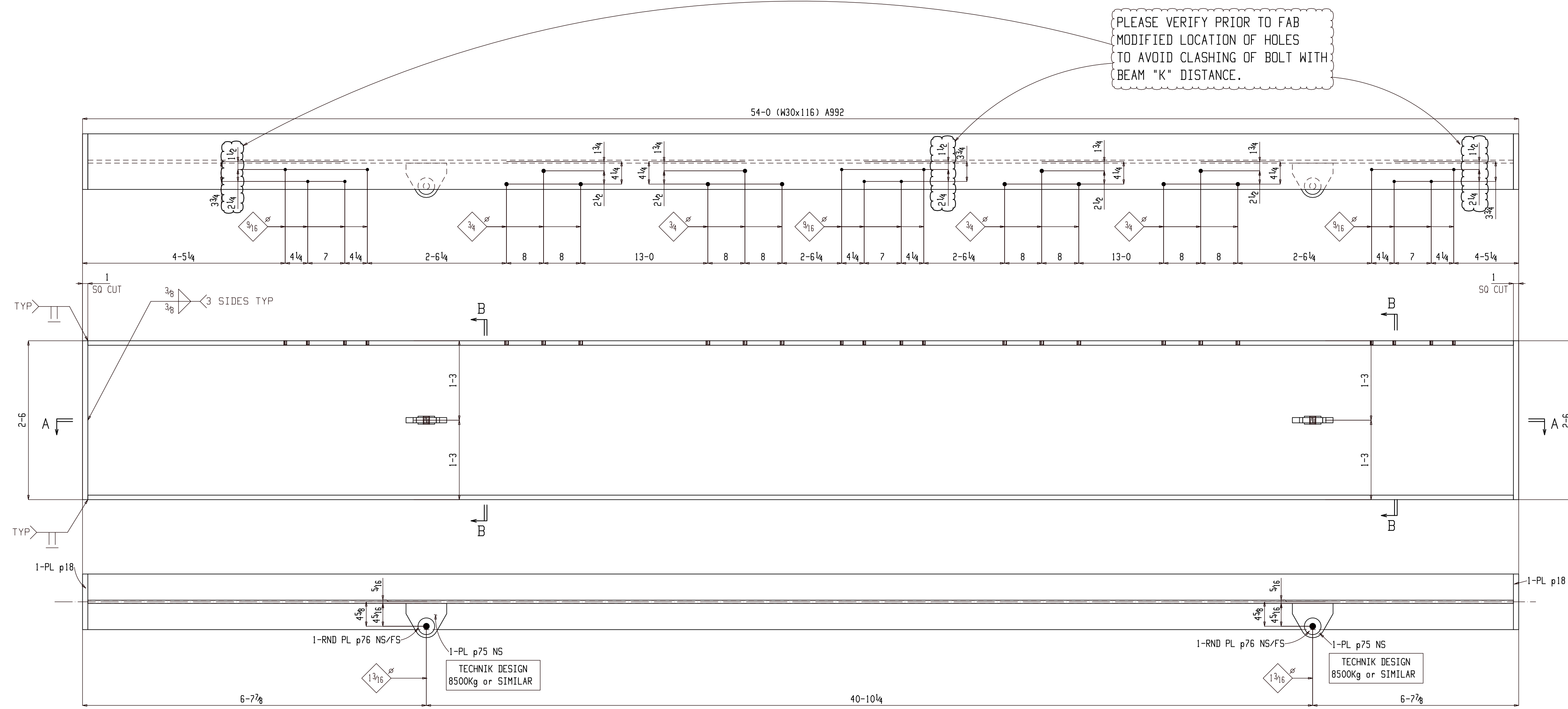
DETAILER: JB DATE: 12-25-21

CHECKER: ALN DATE: 12-25-21

JOB NO. _____ DRWG. NO. AS100

BILL OF MATERIAL

NO.	RE.	ASSY	M	MATERIAL	LENGTH	REMARKS
ONE		BEAM				
1	100B1			W30x116	54'-0"	A992
2	p18			PL1x10 1/2	2'-6"	A572-50
4	p76			PL 1/4 x 3 1/2 Dia		A572-50
2	p75			PL 1 x 6 1/2	7'-11 1/2"	TECHNIK DESIGN 8500kg OR SIMILAR A572-50



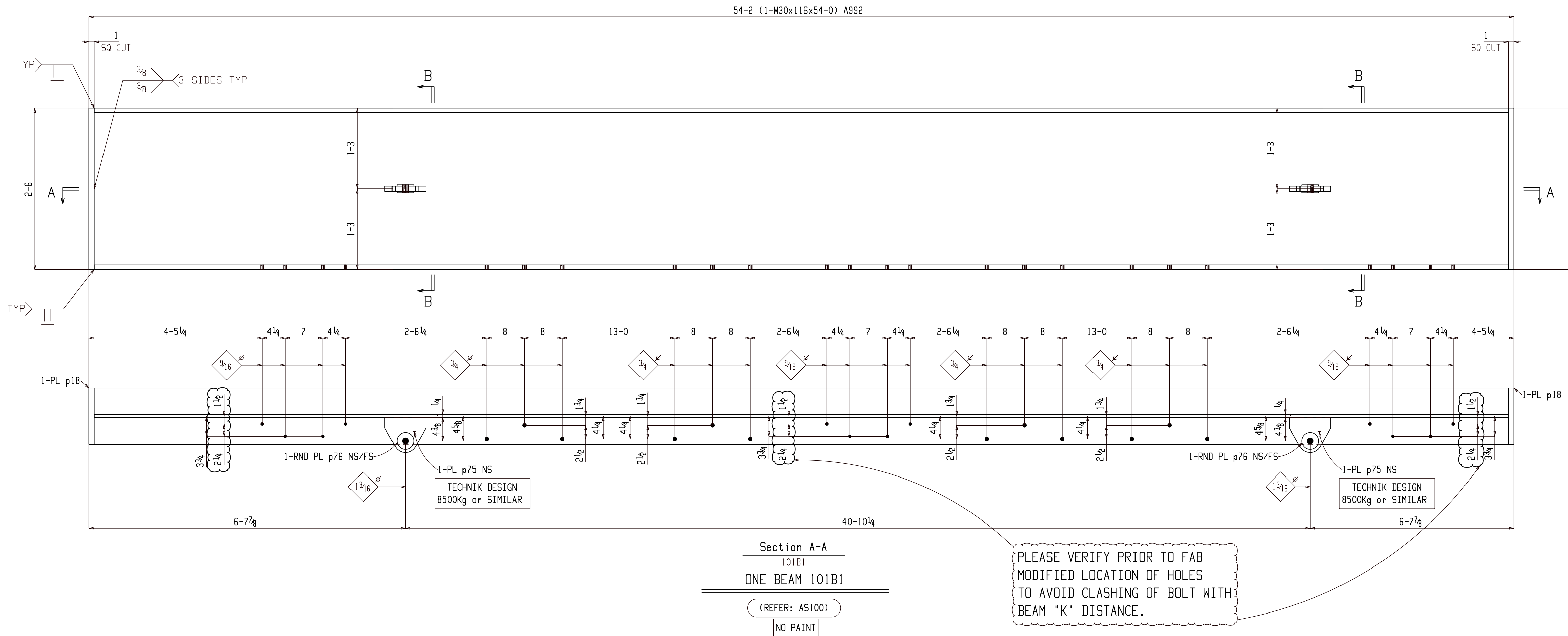
Section A-A
100B1
ONE BEAM 100B1
(REFER: AS100)
NO PAINT

FABRICATION

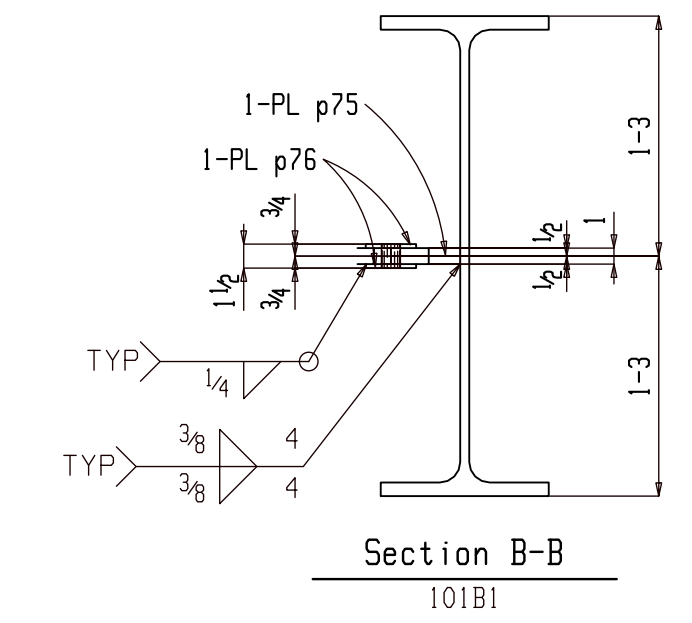
SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE ALL MATERIAL INTD "AESS" SHOP CLEANING - SSPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER							
STEEL NOTES: MISC. SHAPES, P'S & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR.C STEEL PIPE - A53 GR.B		0	01-07	FOR FABRICATION	FAB		
SHOP CONNECTIONS E70XX (UN)		A	12-29	FOR APPROVAL	APPROVAL		
FIELD CONNECTIONS A325 "N" (UN)		REV.	DATE	DESCRIPTION	PRINTS	NO.	DATE
ALL SHOP HOLES TO BE 9/16"Ø (UN)		JOB _____ Pin Piles + Cap Beams					
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.		LOCATION _____ Chesapeake Bay Bridge - Tunnel Project					
JOB NO. _____		CUSTOMER _____					
DRWG. COVERS _____		PILE DRIVING TEMPLATE MEMBER DETAILS					
DATE 12-25-21		JOB NO. _____		DRWG. NO.		100	
DETAILER: JB		DATE 12-25-21		JOB NO. _____		DRWG. NO. _____	
CHECKER: ALN		DATE 12-25-21		JOB NO. _____		DRWG. NO. _____	

BILL OF MATERIAL

NO.	RE	ASSY	M	MATERIAL	LENGTH	REMARKS
ONE				BEAM		
1				101B1 W30x116	54'-0"	A992
2				p18 PLx10 1/2	2'-6"	A572-50
4				p75 PL 1/4 x 3 1/2 Dia		A572-50
2				p75 PL 1 x 6 1/2	7'-11 1/2"	TECHNIK DESIGN
						8500kg OR SIMILAR
						A572-50



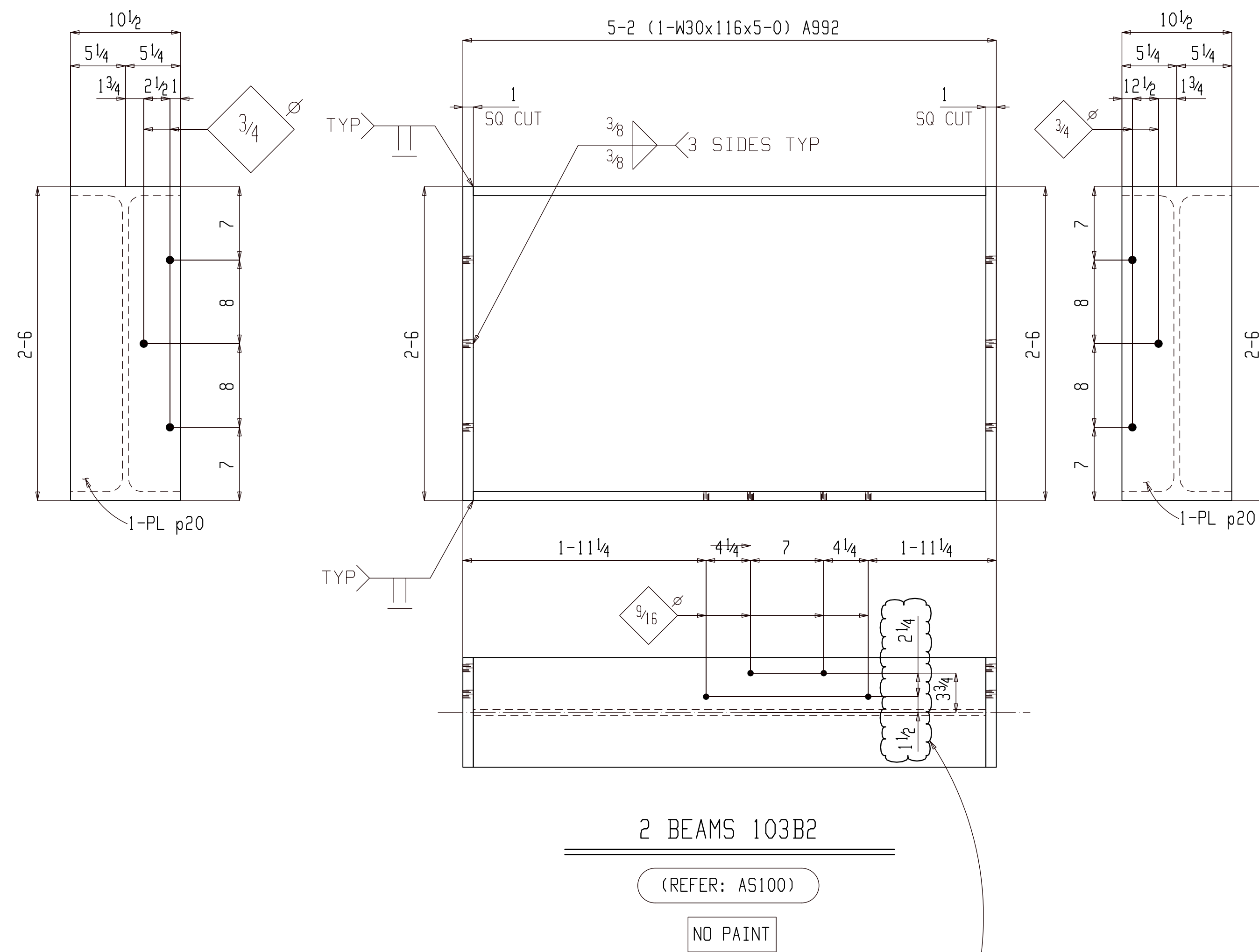
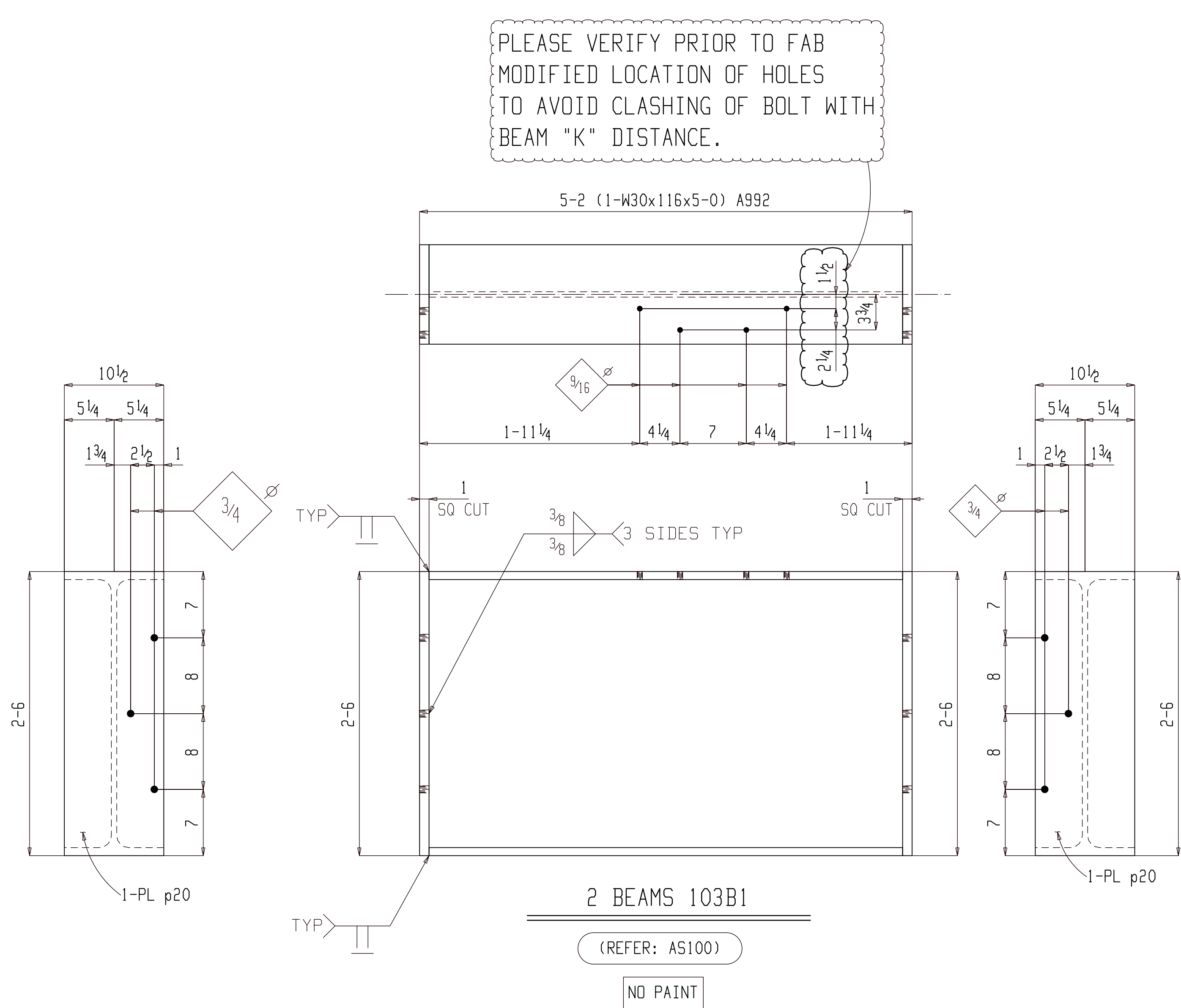
PLEASE VERIFY PRIOR TO FAB
MODIFIED LOCATION OF HOLES
TO AVOID CLASHING OF BOLT WITH
BEAM "K" DISTANCE.



FABRICATION

SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE ALL MATERIAL INT'D "AESS" SHOP CLEANING - SSPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER	0	01-07	FOR FABRICATION	FAB	
	A	12-29	FOR APPROVAL	APPROVAL	
STEEL NOTES: MISC. SHAPES, P'S & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR. C STEEL PIPE - A53 GR. B	REV.	DATE	DESCRIPTION	PRINTS	NO. DATE
SHOP CONNECTIONS E70XX (UN)	FIELD CONNECTIONS A325 "N" (UN)	JOB: Pin Piles + Cap Beams			
LOCATION: Chesapeake Bay Bridge - Tunnel Project					
CUSTOMER: PILE DRIVING TEMPLATE MEMBER DETAILS					
DRWG. COVERS:					
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.		DATE: 12-25-21	JOB NO.	DRWG. NO.	
DRAWN: JB	CHECKER: ALN	DATE: 12-25-21		101	

PLEASE VERIFY PRIOR TO FAB
MODIFIED LOCATION OF HOLES
TO AVOID CLASHING OF BOLT WITH
BEAM "K" DISTANCE.

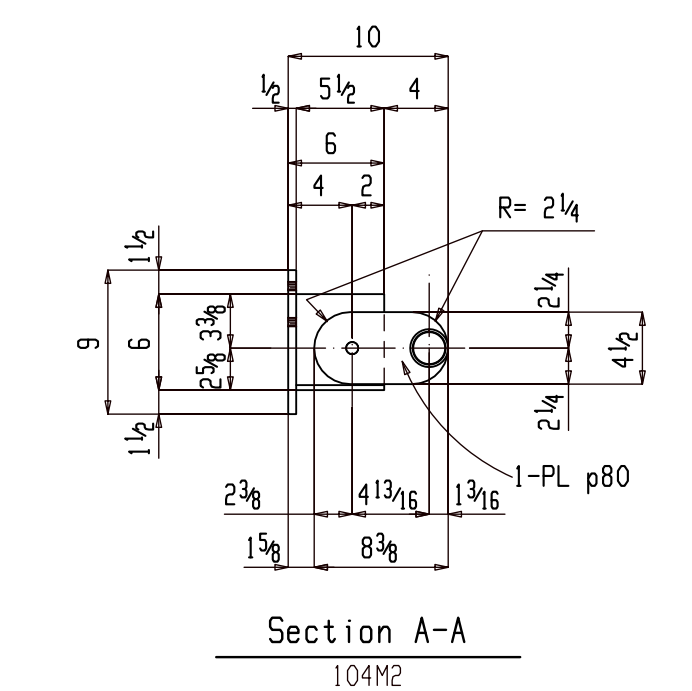
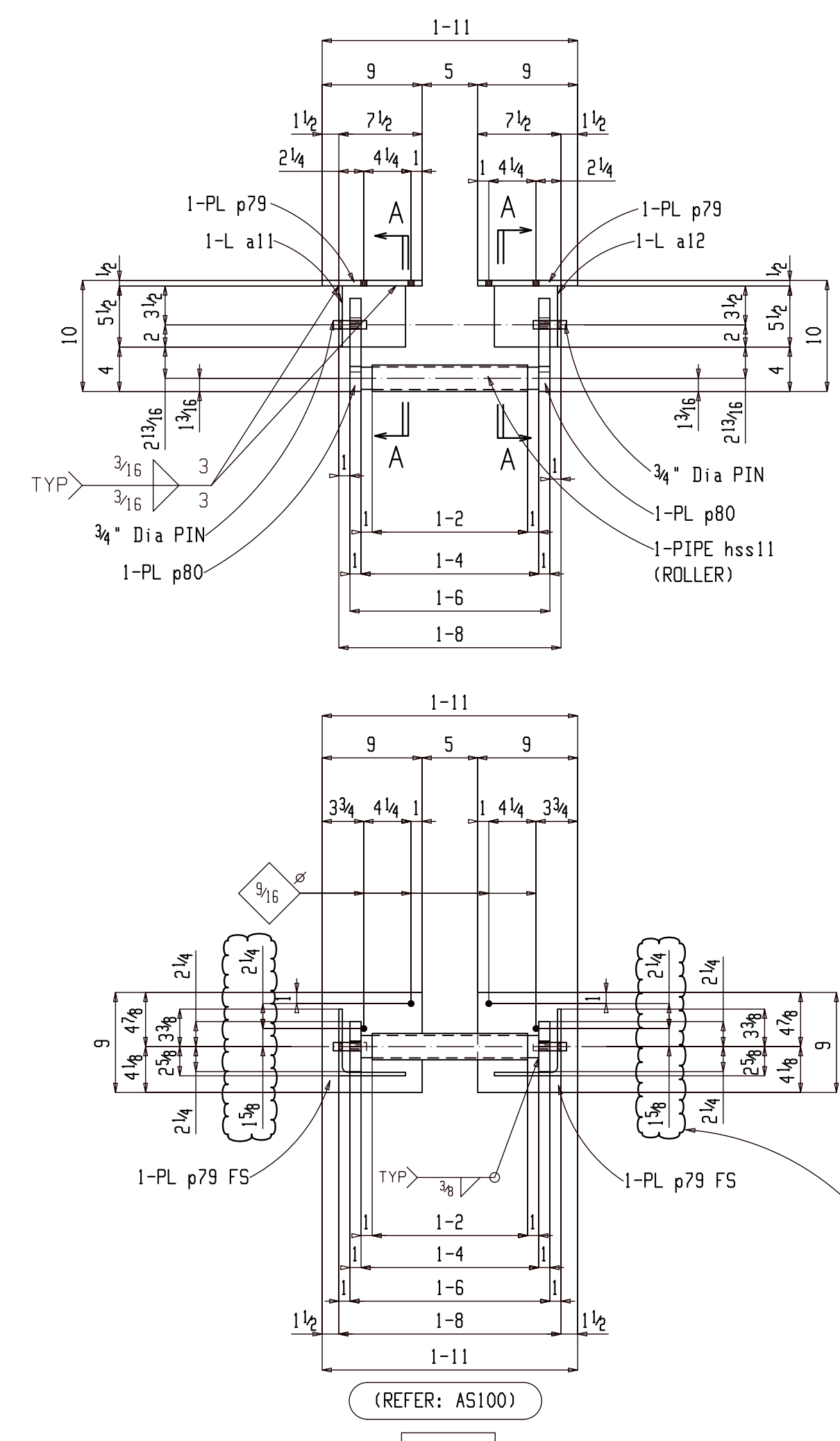
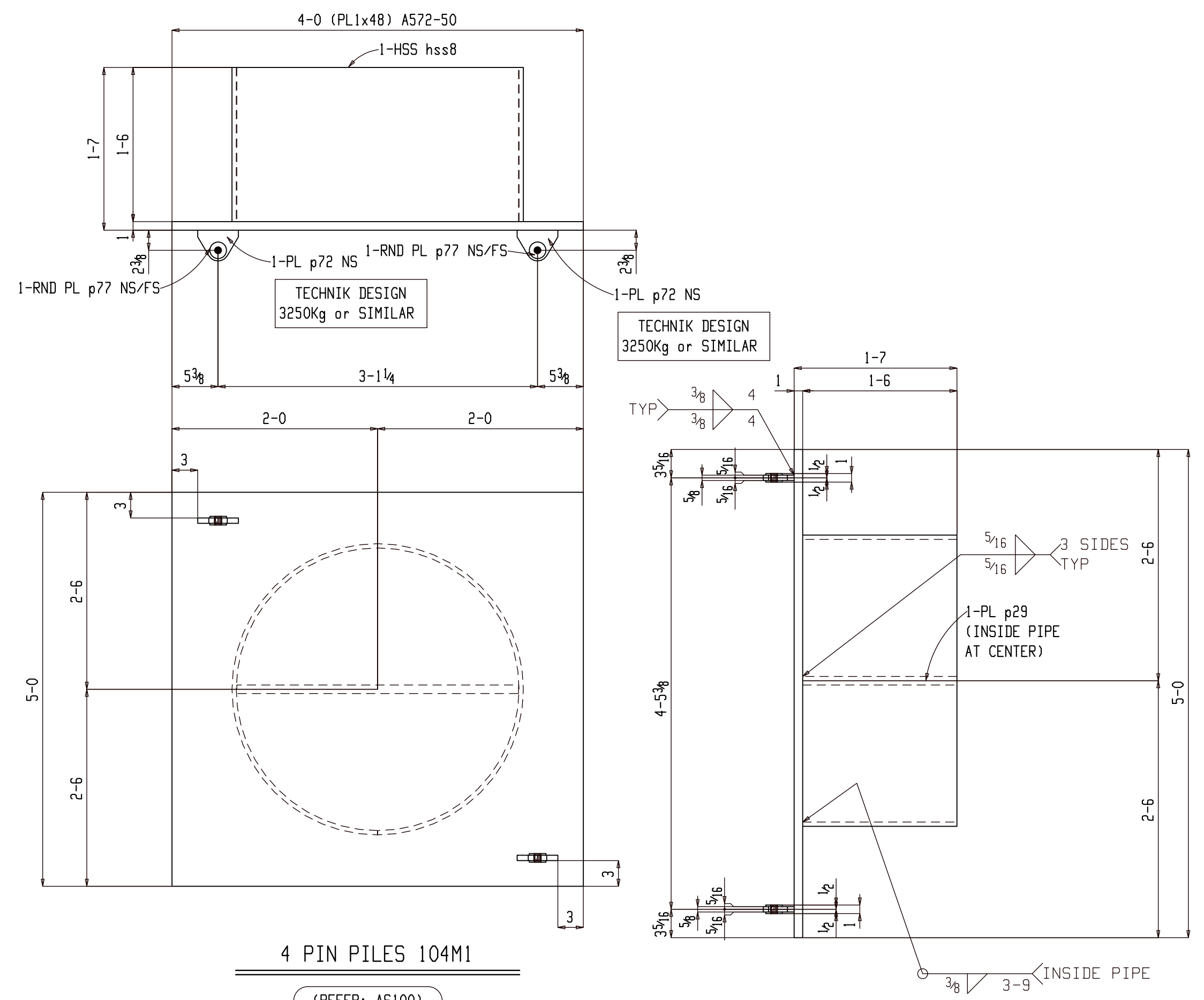


PLEASE VERIFY PRIOR TO FAB
MODIFIED LOCATION OF HOLES
TO AVOID CLASHING OF BOLT WITH
BEAM "K" DISTANCE.

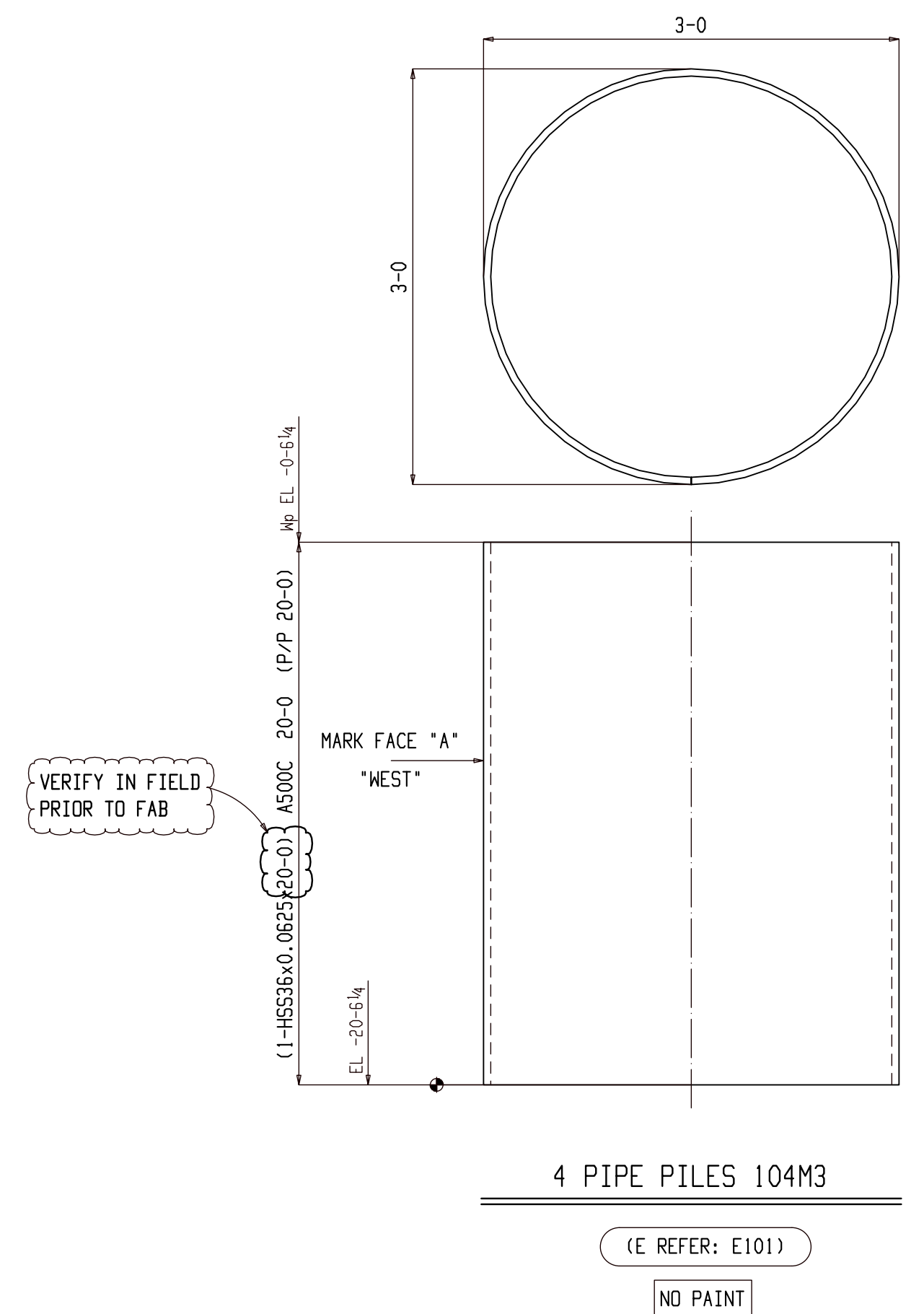
BILL OF MATERIAL				
NO. RE	ASSY M	MATERIAL	LENGTH	REMARKS
2		BEAM		
2	103B1	W30x116	5-0	A992
4	p20	PLx10 1/2	2-6	A572-50
FIELD BOLTS				
12		3/8 Dia A325X	3	+1HD WASH
2		BEAM		
2	103B2	W30x116	5-0	A992
4	p20	PLx10 1/2	2-6	A572-50
FIELD BOLTS				
12		3/8 Dia A325X	3	+1HD WASH

FABRICATION

SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE ALL MATERIAL INT'D "AESS" SHOP CLEANING - SSPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER		0	01-07	FOR FABRICATION	FAB
STEEL NOTES: MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR. C STEEL PIPE - A53 GR. B		A	12-29	FOR APPROVAL	APPROVAL
SHOP CONNECTIONS E70XX (UN)	FIELD CONNECTIONS A325 "N" (UN)	REV.	DATE	DESCRIPTION	PRINTS NO. DATE
ALL SHOP HOLES TO BE 3/16" (UN)		JOB: Pin Piles + Cap Beams			
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.		LOCATION: Chesapeake Bay Bridge - Tunnel Project			
		CUSTOMER:			
		DRWG. COVERS: PILE DRIVING TEMPLATE MEMBER DETAILS			
		DATE: 12-25-21	JOB NO.	DRWG. NO.	
		CHECKER: ALN	DATE: 12-25-21	103	



PLEASE VERIFY PRIOR TO FAB MODIFIED LOCATION OF HOLES TO AVOID CLASHING OF BOLT WITH BEAM "K" DISTANCE.

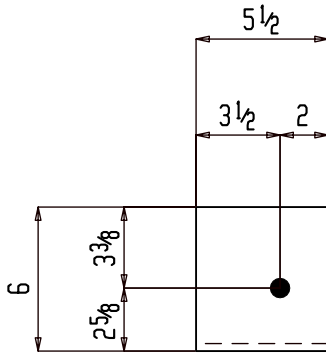


BILL OF MATERIAL					
NO.	RE	ASSY M	MATERIAL	LENGTH	REMARKS
4			PIN PILE		
4	104M1		PL1x48	5-0	A572-50
4	hss8		HSS34x0.500	1-6	A53B
4	p29		PL1x18	2-8 1/8	A572-50
16	p77		PL 3/8 x 1 1/8 Dia		A572-50
8	p72		PL 3/8 x 3 3/8		TECHNIK DESIGN 3250kg OR SIMILAR A572-50
12			ROLLER		
12	104M2		2" Dia ROUND BAR	1-4	A572-50
12	hss11		PIPE 2 STD	1-2	ROLLER A500C
12	a11		L6x6x3/16	5 1/2	A572-50
12	a12		L6x6x3/16	5 1/2	A572-50
24	p80		PL1x4 1/2	8 3/8	A572-50
24	p79		PL 1/2 x 9	9	A572-50
			FIELD BOLTS		
48			1/2 Dia A325X	2 1/4	+1HD WASH
24			3/4" Dia PIN	3	
4			PIPE PILE		
4	104M3		HSS36x0.0625	20-0	A500C

FABRICATION

SHOP CLEAN - SSPC-SP3 SHOP PRIME WITH 1 COAT GRAY OXIDE ALL MATERIAL INTD "AESS" SHOP CLEANING - SSPC-SP6 SHOP PRIME WITH 1 COAT GRAY PRIMER	0 01-07 FOR FABRICATION A 12-29 FOR APPROVAL	FAB APPROVAL			
STEEL NOTES: MISC. SHAPES, P's & BARS - A36 STRUCTURAL STEEL SHAPES - A992 Gr 50 STRUCTURAL TUBING - A500 GR.C STEEL PIPE - A53 GR.B	REV. DATE DESCRIPTION PRINTS NO. DATE				
SHOP CONNECTIONS E70XX (UN) FIELD CONNECTIONS A325 "N" (UN)	JOB Pin Piles + Cap Beams				
ALL SHOP HOLES TO BE 1/8" Ø (UN)	LOCATION Chesapeake Bay Bridge - Tunnel Project				
SHOP NOTES: ALL STUBS ARE FROM FACE OF CLIP ANGLES ALL HOLE SPACING 3" C/C UNLESS NOTED ALL BLOCK SIZES FROM FACE OF CLIP ANGLES ALL REAR ENTRANT CUTS HAVE A MINIMUM OF 1/2" RADIUS CUTS.	CUSTOMER DRWG. COVERS PILE DRIVING TEMPLATE MEMBER DETAILS				
	DATE 12-25-21 CHECKER ALN	JOB NO. DATE 12-25-21	DRWG. NO. 104		

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



12 L6x6x5/16x0-5 1/2 a11

GRADE: A572-50

NO PAINT

Holes ¹³/₁₆ Ø Unless Noted

PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY

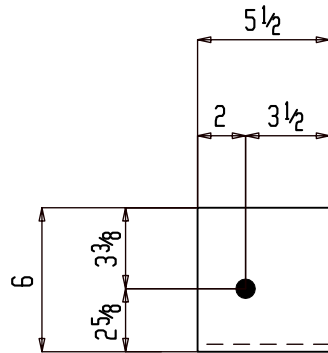
CHK'D BY

JB

ALN

a11

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



12 L6x6x $\frac{5}{16}$ x0-5 $\frac{1}{2}$ a12

GRADE: A572-50

NO PAINT

Holes $\frac{13}{16}$ Ø Unless Noted

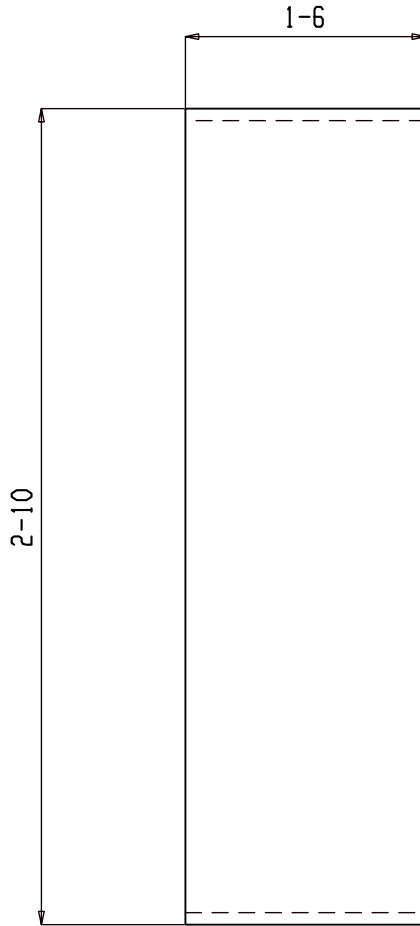
PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

a12

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



4 HSS34x0.500x1-6 hss8

GRADE: A53B

NO PAINT

Holes $\frac{13}{16}$ Ø Unless Noted

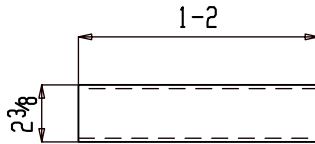
PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

hss8

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



12 PIPE 2 STDx1-2 hss11

GRADE: A500C

NO PAINT

Holes $\frac{13}{16}$ Ø Unless Noted

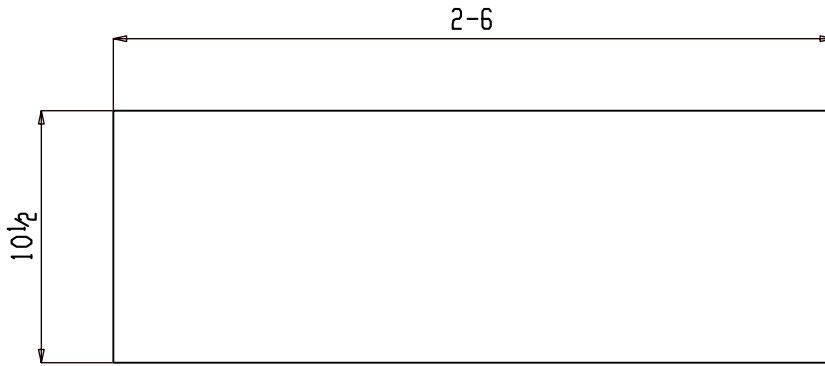
PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

hss11

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



4 PL1x10 1/2 x2-6 p18

GRADE: A572-50

NO PAINT

Holes ¹³/₁₆ Ø Unless Noted

PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY

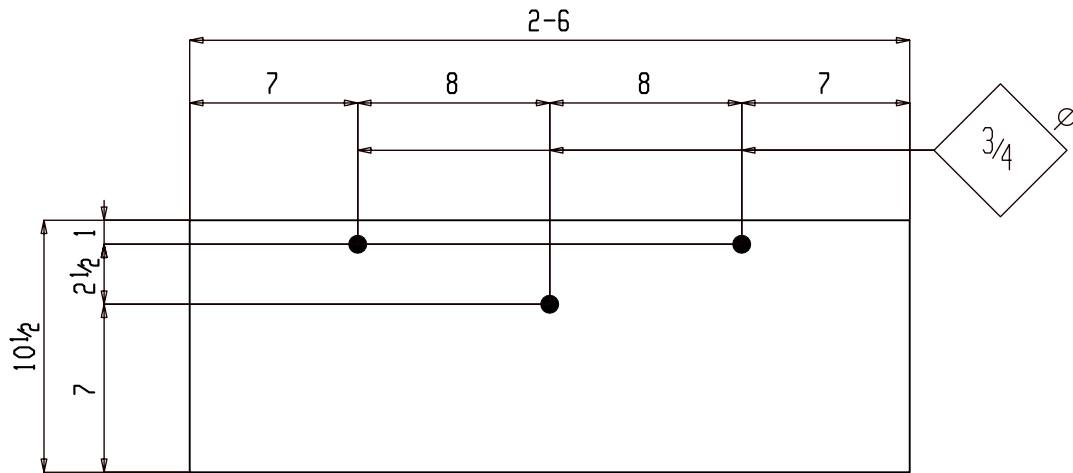
CHK'D BY

JB

ALN

p18

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



8 PL1x10 1/2 x2-6 p20

GRADE: A572-50

NO PAINT

Holes 13/16 Ø Unless Noted

PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY

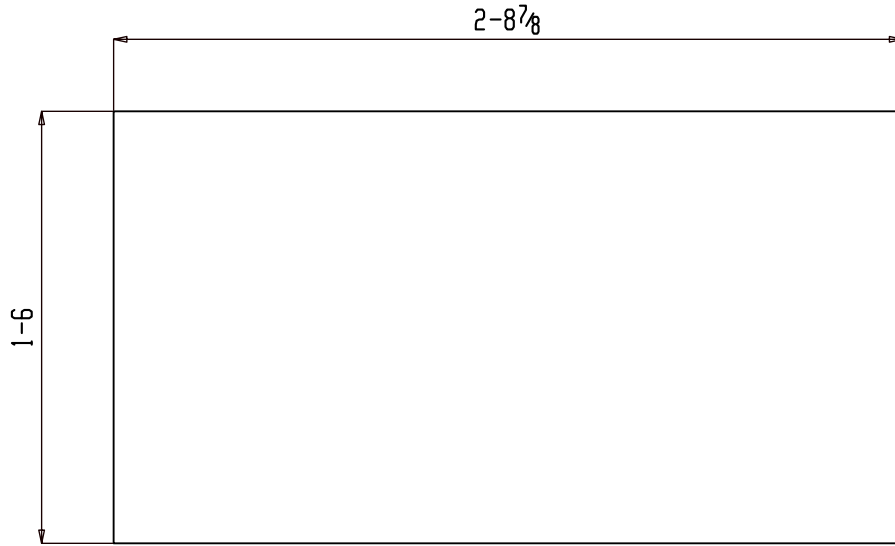
JB

CHK'D BY

ALN

p20

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



4 PL1x18x2-8 7/8 p29

GRADE: A572-50

NO PAINT

Holes ¹³/₁₆ Ø Unless Noted

PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY

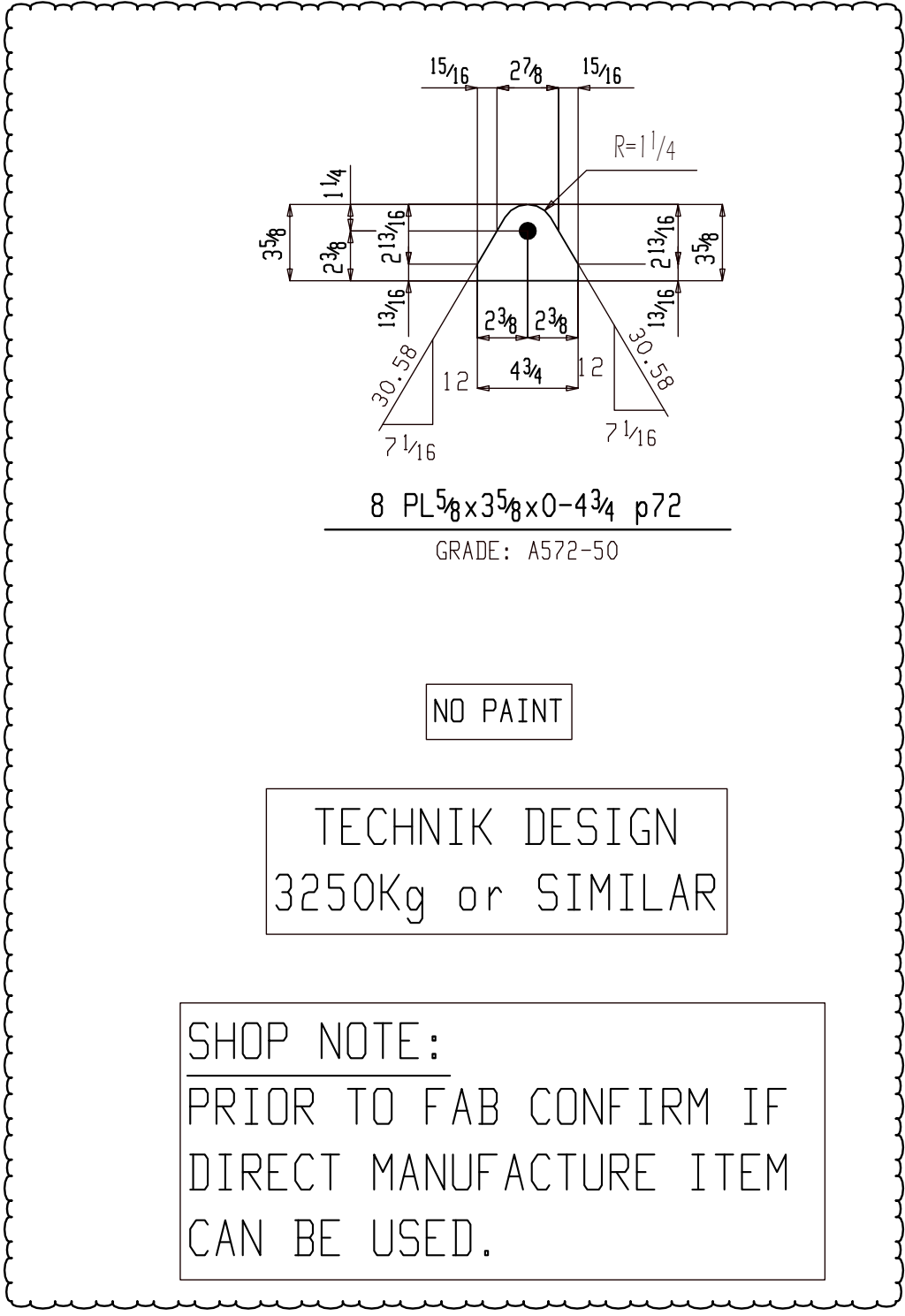
JB

CHK'D BY

ALN

p29

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



NO PAINT

TECHNIK DESIGN
3250Kg or SIMILAR

SHOP NOTE:
PRIOR TO FAB CONFIRM IF
DIRECT MANUFACTURE ITEM
CAN BE USED.

Holes $13/16$ \emptyset Unless Noted

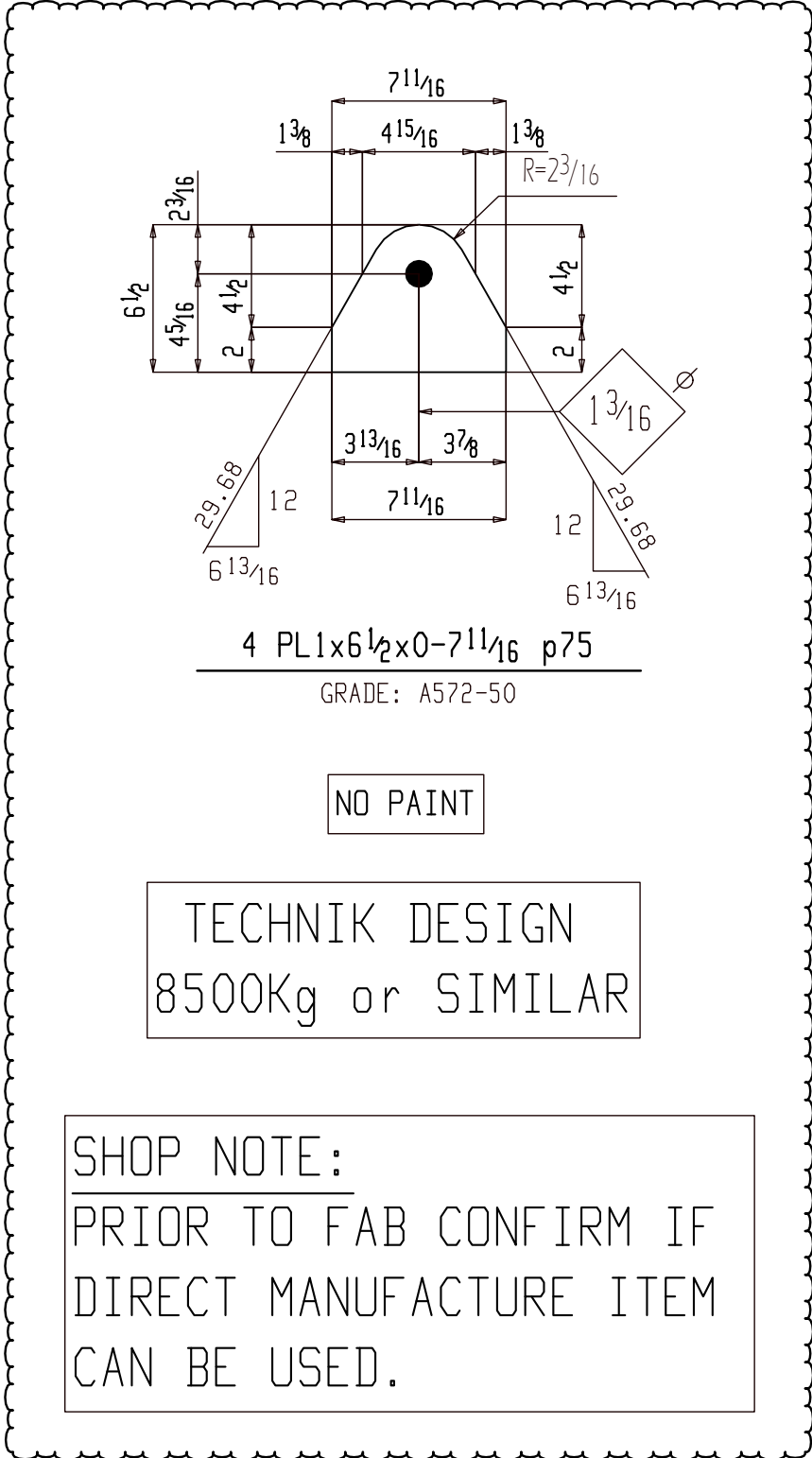
PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

p72

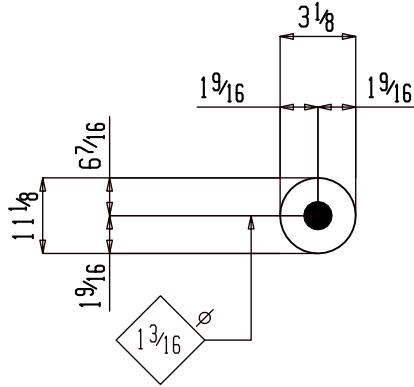
REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



Holes 1 3/16 Ø Unless Noted

PROJECT	Pin Piles + Cap Beams Chesapeake Bay Bridge - Tunnel Project	PROJECT NO. :	
		DRAWN BY	CHK'D BY
		JB	ALN
			p75

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



8 PL 1/4 x 3 1/8 Dia p76

GRADE: A572-50

NO PAINT

TECHNIK DESIGN
8500Kg or SIMILAR

SHOP NOTE:
PRIOR TO FAB CONFIRM IF
DIRECT MANUFACTURE ITEM
CAN BE USED.

Holes 1 3/16 Ø Unless Noted

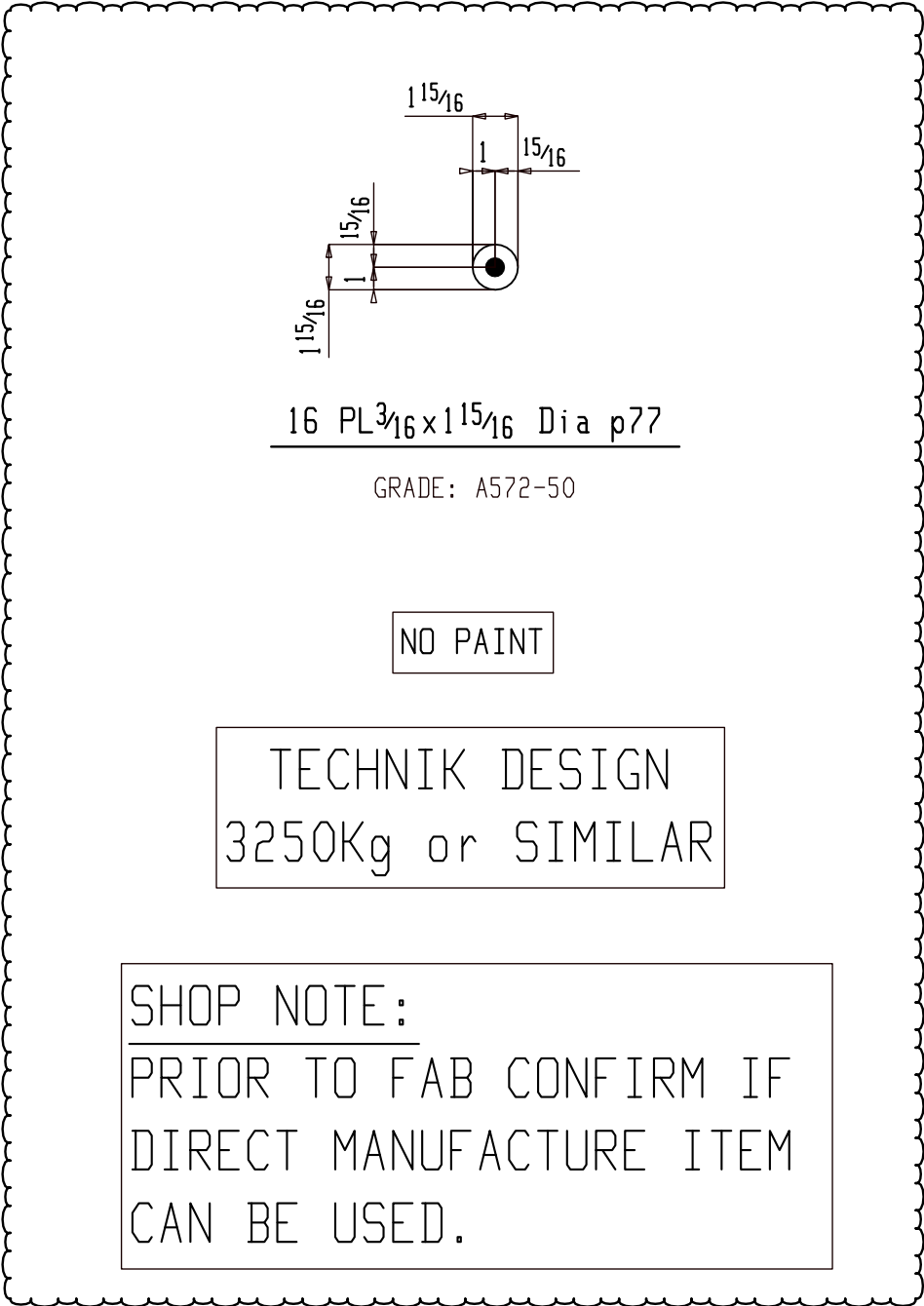
PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

p76

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION

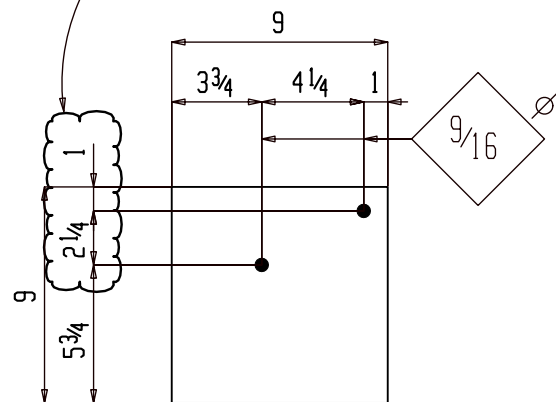


Holes $\frac{13}{16}$ Ø Unless Noted

PROJECT	Pin Piles + Cap Beams Chesapeake Bay Bridge - Tunnel Project	PROJECT NO. :	
		DRAWN BY	CHK'D BY
		JB	ALN
			p77

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION

PLEASE VERIFY PRIOR TO FAB
 MODIFIED LOCATION OF HOLES
 TO AVOID CLASHING OF BOLT WITH
 BEAM "K" DISTANCE.



24 PL 1/2 x 9 x 0-9 p79

GRADE: A572-50

NO PAINT

Holes 13/16 Ø Unless Noted

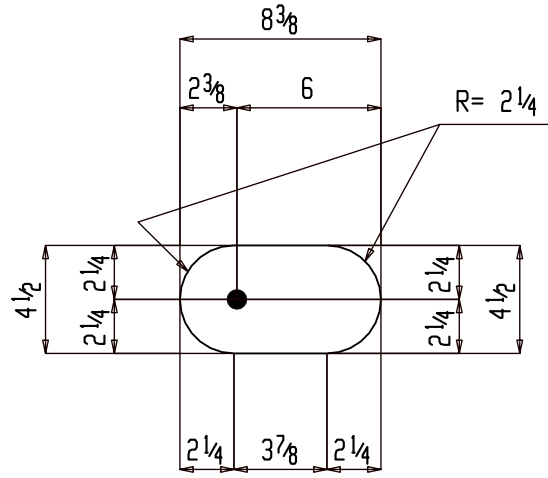
PROJECT Pin Piles + Cap Beams
 Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY	CHK'D BY
JB	ALN

p79

REV	DATE	REMARKS
0	01-07-21	FOR FABRICATION



24 PL1x4 1/2x0-8 3/8 p80

GRADE: A572-50

NO PAINT

Holes ¹³/₁₆ Ø Unless Noted

PROJECT Pin Piles + Cap Beams
Chesapeake Bay Bridge - Tunnel Project

PROJECT NO. :

DRAWN BY
JB

CHK'D BY
ALN

p80