

WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.6 (STRUCTURAL WELDING OF AUSTENITIC STAINLESS STEEL) AND PPPL PROCEDURE NO. ENG-037. VISUAL WELD INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ACCEPTANCE CRITERIA OF AWS D1.6.

REFERENCE PERMEABILITY

BASE MATERIAL	1.05
FABRICATED PART	1.05
WELD	1.05

NOTE ORIENTATION OF ALL PARTS BEFORE WELDING.

DRAWING DEPICTS FINAL REQUIRED ASSEMBLED STATE. MANUFACTURING TO DETERMINE MATERIAL ALLOWANCES AND WELD DISTORTION ALLOWANCES REQUIRED TO ACHIEVE DIMENSIONS/TOLERANCES INDICATED.

3 ASSEMBLIES REQUIRED

PART NO.	DRAWING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	QTY	RECD
4	SE172-240-3	SUPPORT COLUMN TOP PLATE	304 STN STL	1	
3	SE172-240-1	OUTER SUPPORT COLUMN BOTTOM PLATE	304 STN STL	1	
2	SE172-253-2	WI2 X 35 INNER SUPPORT COLUMN BEAM	304 STN STL	1	
1	SE172-253-1	INNER SUPPORT COLUMN BEAM GUSSET	304 STN STL	2	

PARTS LIST

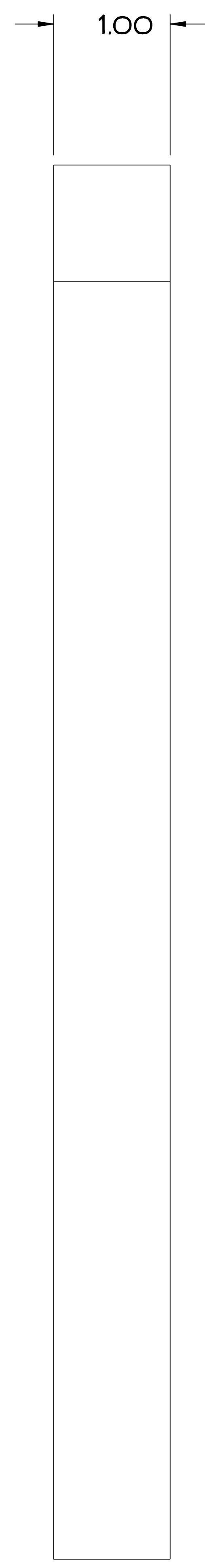
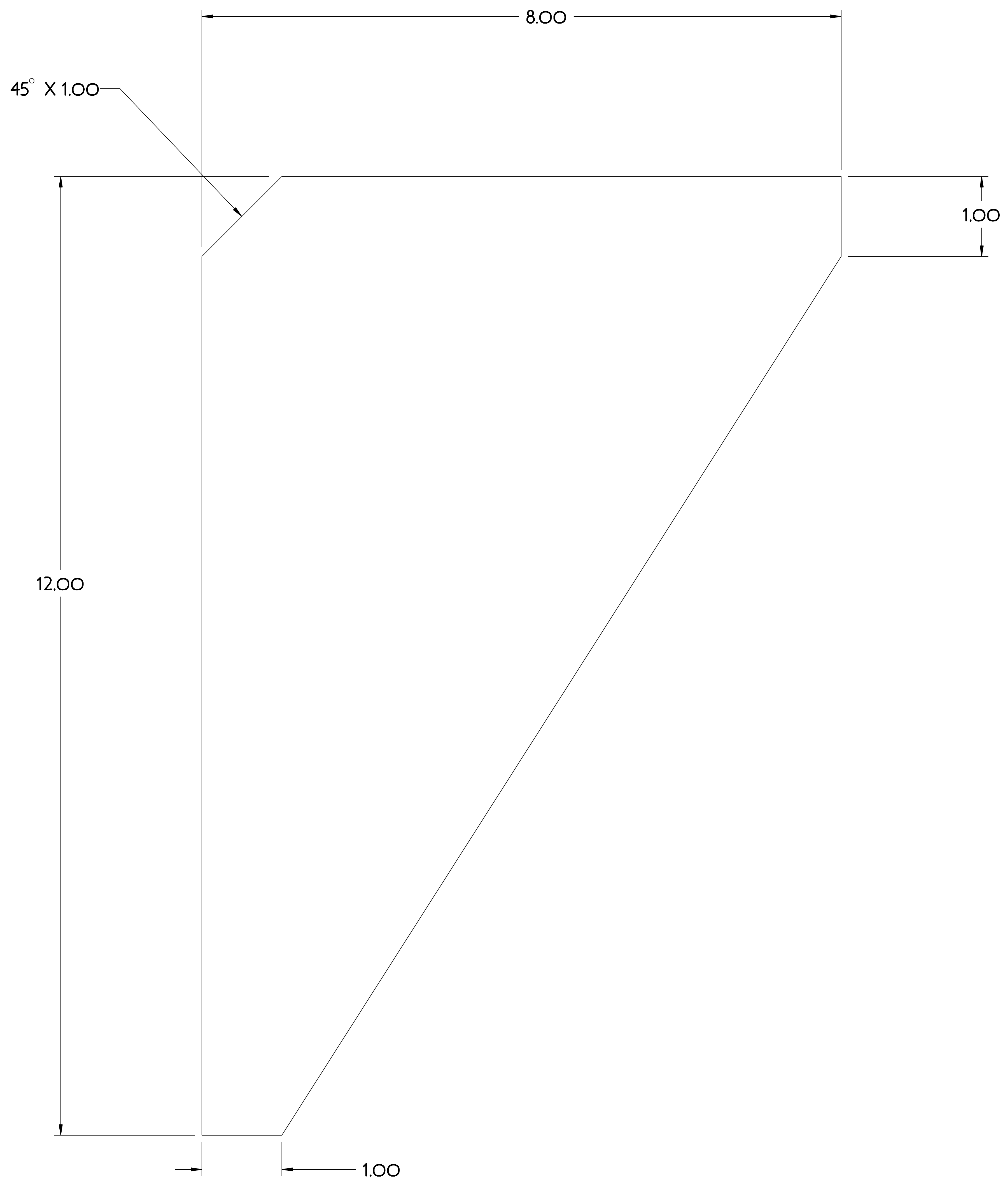
COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED Pro E	CENTRAL FILES: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES MACHINE SURFACES BREAK SHARP EDGES .005/.020	PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY NATIONAL COMPACT STELLARATOR EXPERIMENT STELLARATOR CORE BASE SUPPORT STRUCTURE MACHINE BASE SUPPORT COLUMN A-A JOINT	
DO NOT VERIFY INFORMATION BY SCALING DRAWING	TOLERANCES NON-CUMULATIVE DECIMAL-INCH FRACTIONS .XX +/- .000 .XXX +/- .005 ANGULAR +/- .05	DSN: T. CRUICKSHANK CHK: ENGR. F. DAHLGREN SUPV:	DRAWING NO: SE172-253 SHEET 1 OF 3 REV 0

WEIGHT	648.1 lbs
MODEL NAME	SE172-253
WELDING ENGINEER	

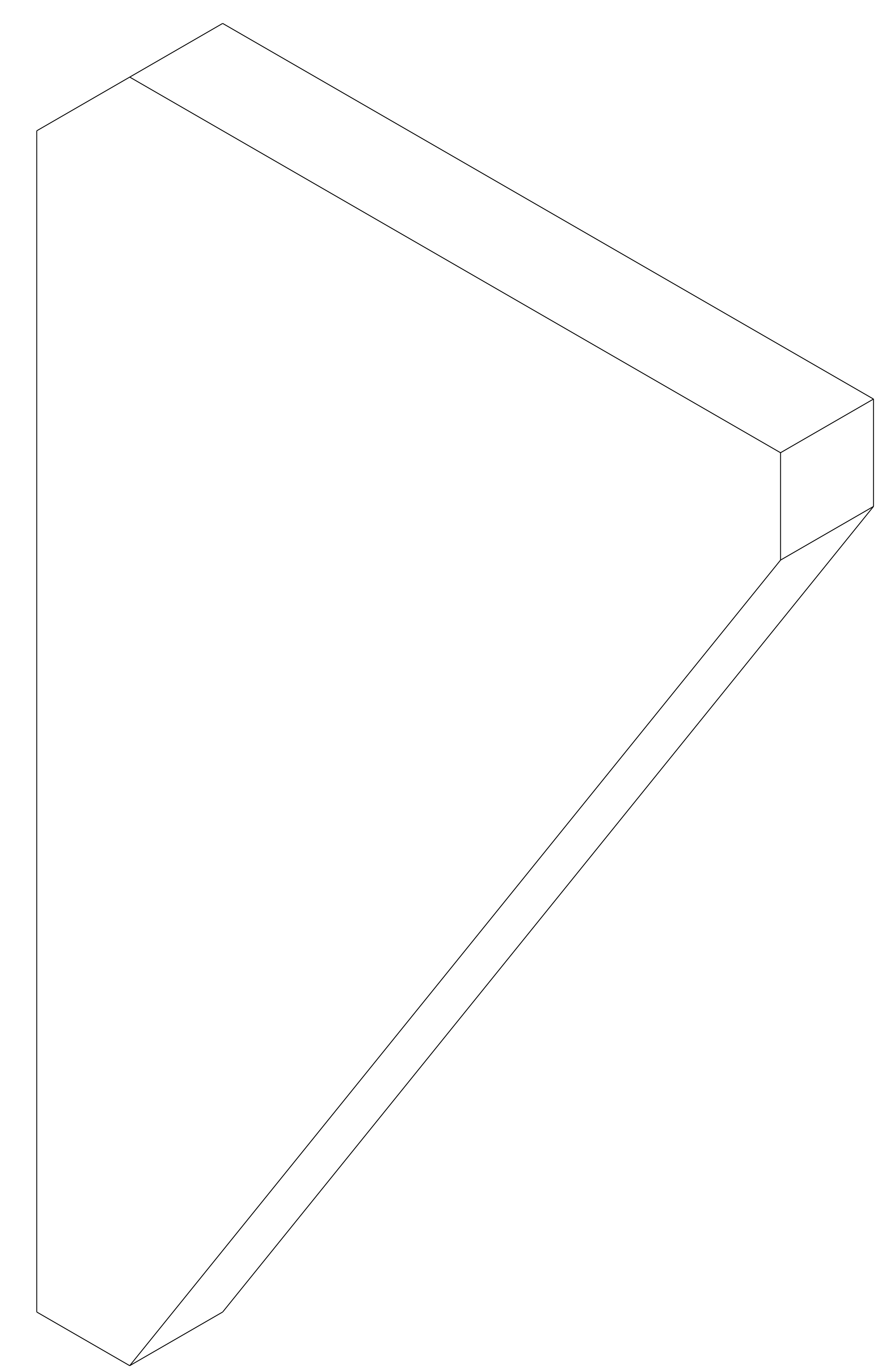
RELEASE LEVEL: WIP
DWG VERSION NO: 3

NCSX-SE172-253

NO.	REVISION	BY	CH	SUP	APPROVED	DATE



1. DRAWINGS PREPARED IN ACCORDANCE WITH ASME Y14.100-2000
2. INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5-1994.
3. DIMENSIONS ARE IN INCHES.
4. SEE SPECIFICATION NCSX-CSPEC-XXX-XX-XX FOR ADDITIONAL INFORMATION AND/OR MATERIAL REQUIREMENTS.



6 REQUIRED

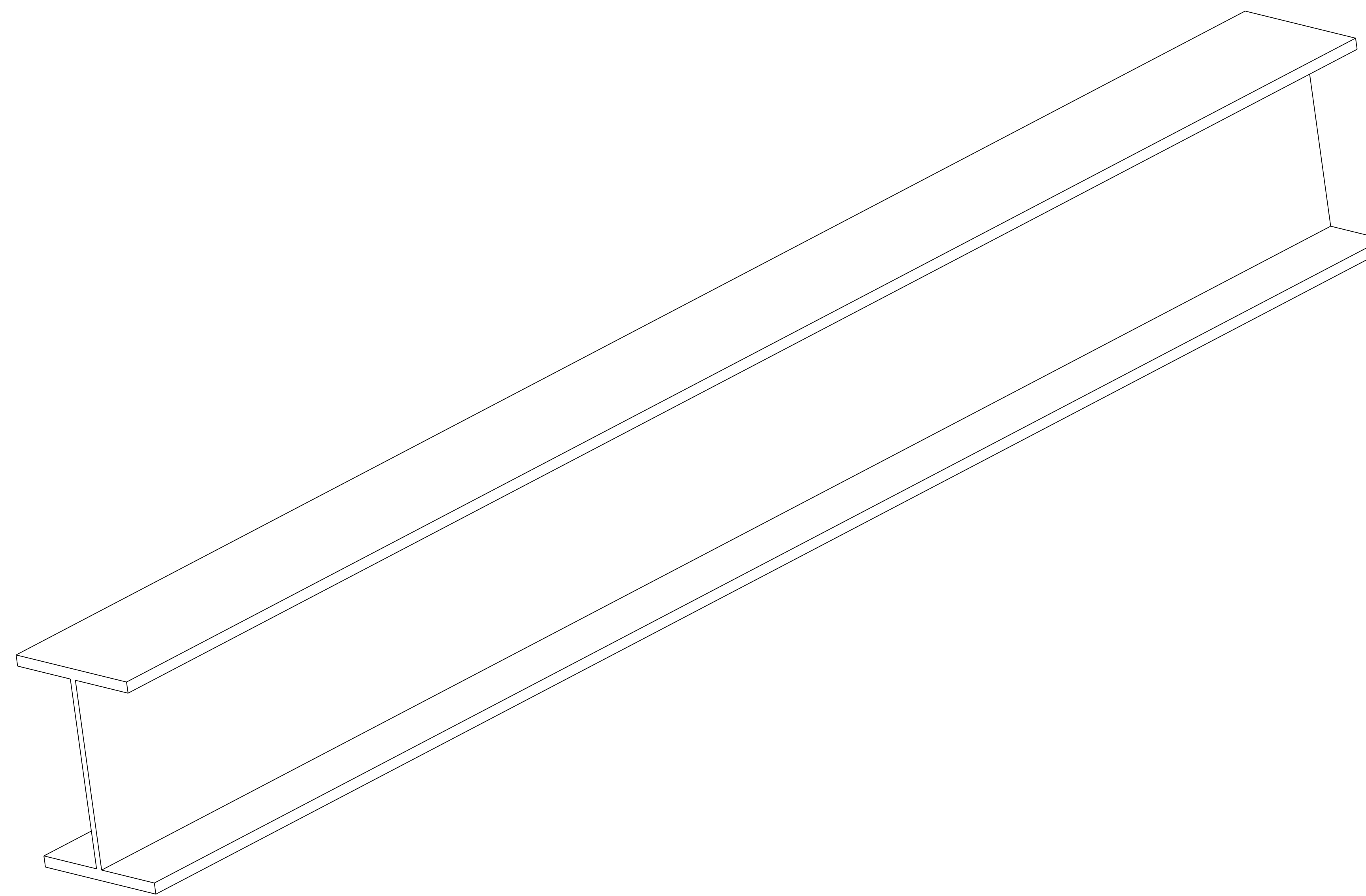
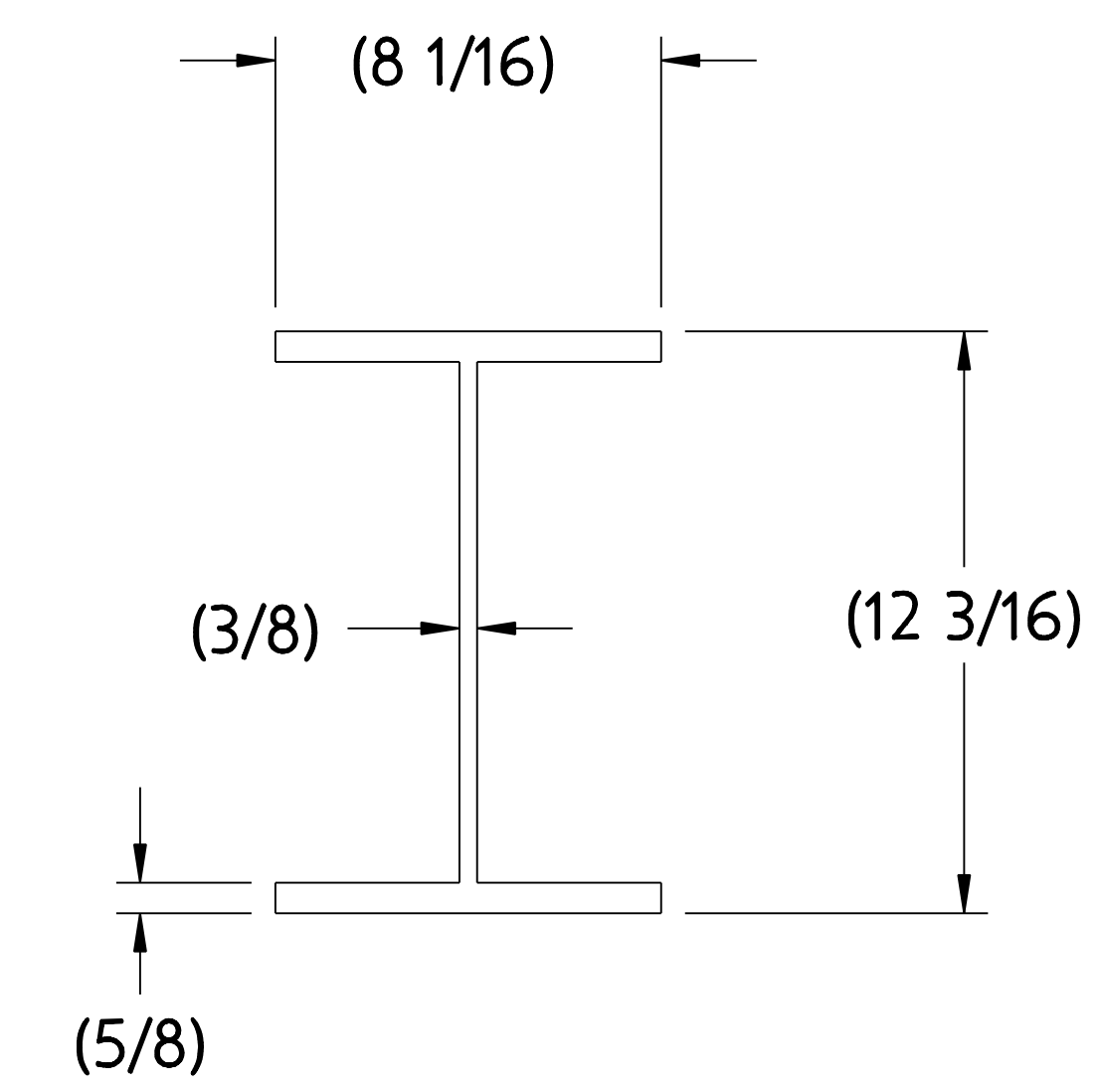
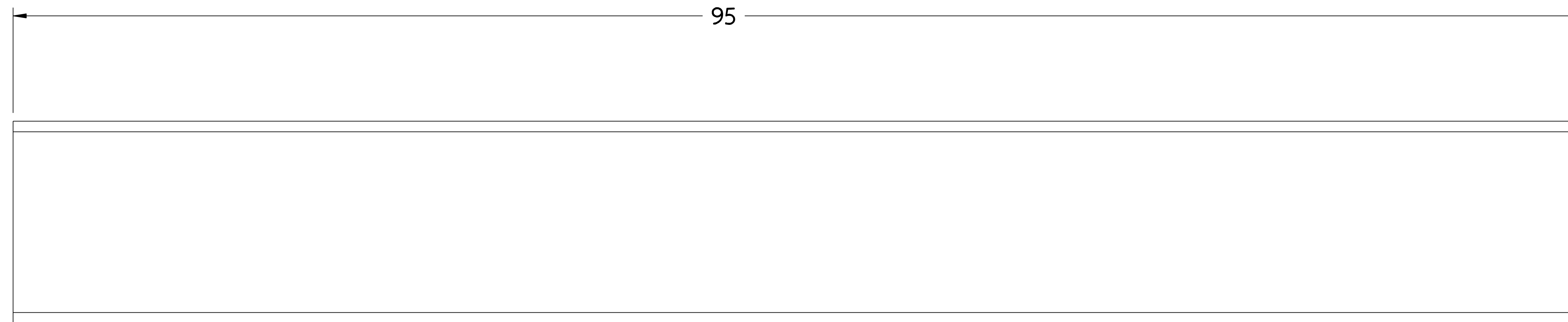
RELEASE LEVEL: WIP
 DWG VERSION NO: 2

WEIGHT	16.5 lbs
MODEL NAME	SEI72-253-2
WELDING ENGINEER	

PART NO.	SEI72-253-1	INNER SUPPORT COLUMN BEAM GUSSET	304 STN STL	QTY REOD
PARTS LIST				
COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED	CENTRAL FILES: UNLESS OTHERWISE SPECIFIED	PRINCETON PLASMA PHYSICS LABORATORY NATIONAL COMPACT STELLARATOR EXPERIMENT		
DO NOT VERIFY INFORMATION BY SCALING DRAWING	DIMENSIONS ARE IN INCHES MACHINE SURFACES BREAK SHARP EDGES .005/.020	STELLARATOR CORE BASE SUPPORT STRUCTURE INNER SUPPORT COLUMN BEAM GUSSET		
PRO E	TOLERANCES NON-CUMULATIVE	DSN: T. CRUICKSHANK	DRAWING NO:	
NEXT ASSEMBLY	DECIMAL-INCH FRACTIONS	CHK: ENGR: F. DAHLGREN	SEI72-253	
	XXX +/- .005 72°-120° +/- .124 ANGULAR +/- .0°-15° OVER 120° +/- .124	SUPV:	SHEET 2 OF 3	REV D, 14

NCSX-SEI72-253

NO.	REVISION	BY	CH	SUP	APPROVED	DATE



1. DRAWINGS PREPARED IN ACCORDANCE WITH ASME Y14.100-2000
2. INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5-1994.
3. DIMENSIONS ARE IN INCHES.
4. SEE SPECIFICATION NCSX-CSPEC-XXX-XX-XX FOR ADDITIONAL INFORMATION AND/OR MATERIAL REQUIREMENTS.

3 REQUIRED

RELEASE LEVEL: WIP
DWG VERSION NO: 3

WEIGHT	396.1 lbs
MODEL NAME	SEI72-253-2
WELDING ENGINEER	

2	SEI72-253-2	W12 X 35 INNER SUPPORT COLUMN BEAM	304 STN STL	
PART NO.	DRAWING/MODEL NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	QTY REOD
PARTS LIST				
COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED	CENTRAL FILES: UNLESS OTHERWISE SPECIFIED	PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY		
DO NOT VERIFY INFORMATION BY SCALING DRAWING	DIMENSIONS ARE IN INCHES MACHINE SURFACES BREAK SHARP EDGES .005/.020	NATIONAL COMPACT STELLARATOR EXPERIMENT STELLARATOR CORE BASE SUPPORT STRUCTURE W6 X 20 INNER SUPPORT COLUMN BEAM		
PRO E	TOLERANCES NON-CUMULATIVE	DSN: T. CRUICKSHANK	DRAWING NO:	
NEXT ASSEMBLY	DECIMAL-INCH FRACTIONS	CHK:	SEI72-253	
	.XX +/- .030 0°-12° +/- .010	ENGR: F. DAHLGREN		
	.XXX +/- .005 12°-120° +/- .124	SUPV:		
	ANGULAR +/- .0°-15° OVER 120° +/- .172			
			SHEET 3 OF 3	REV D, 14

NCSX-SEI72-253