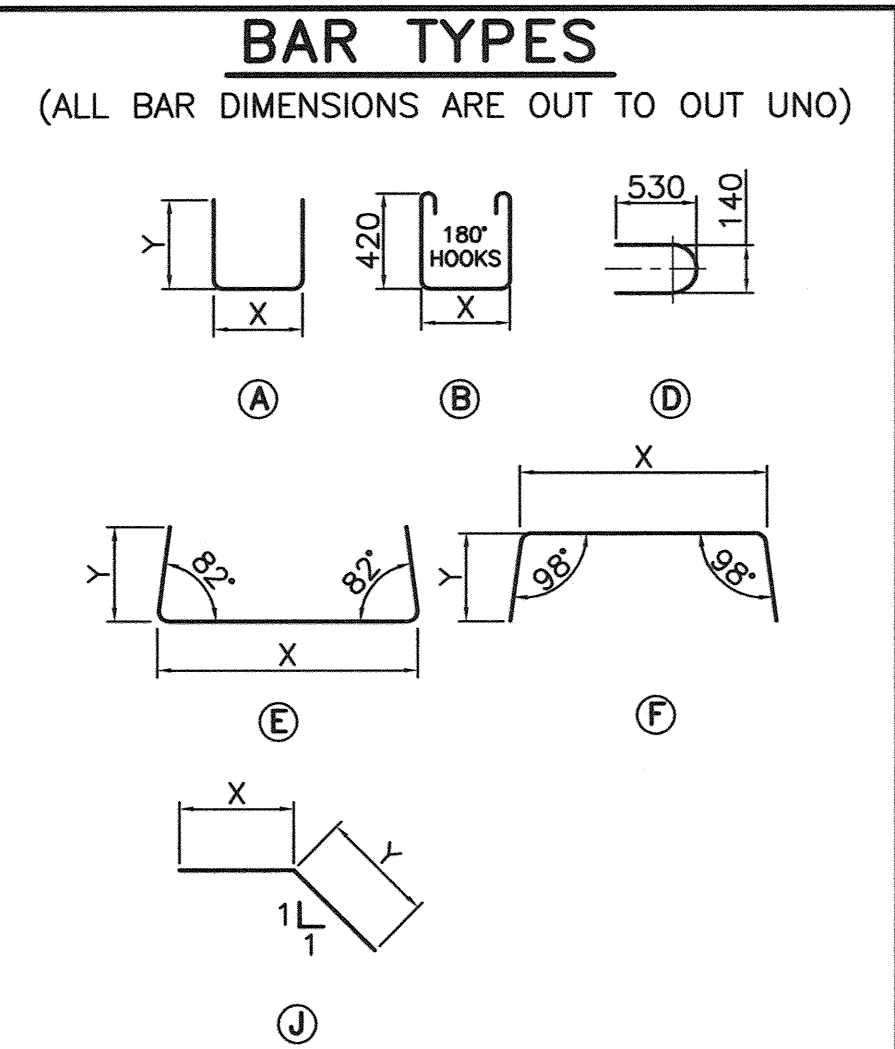
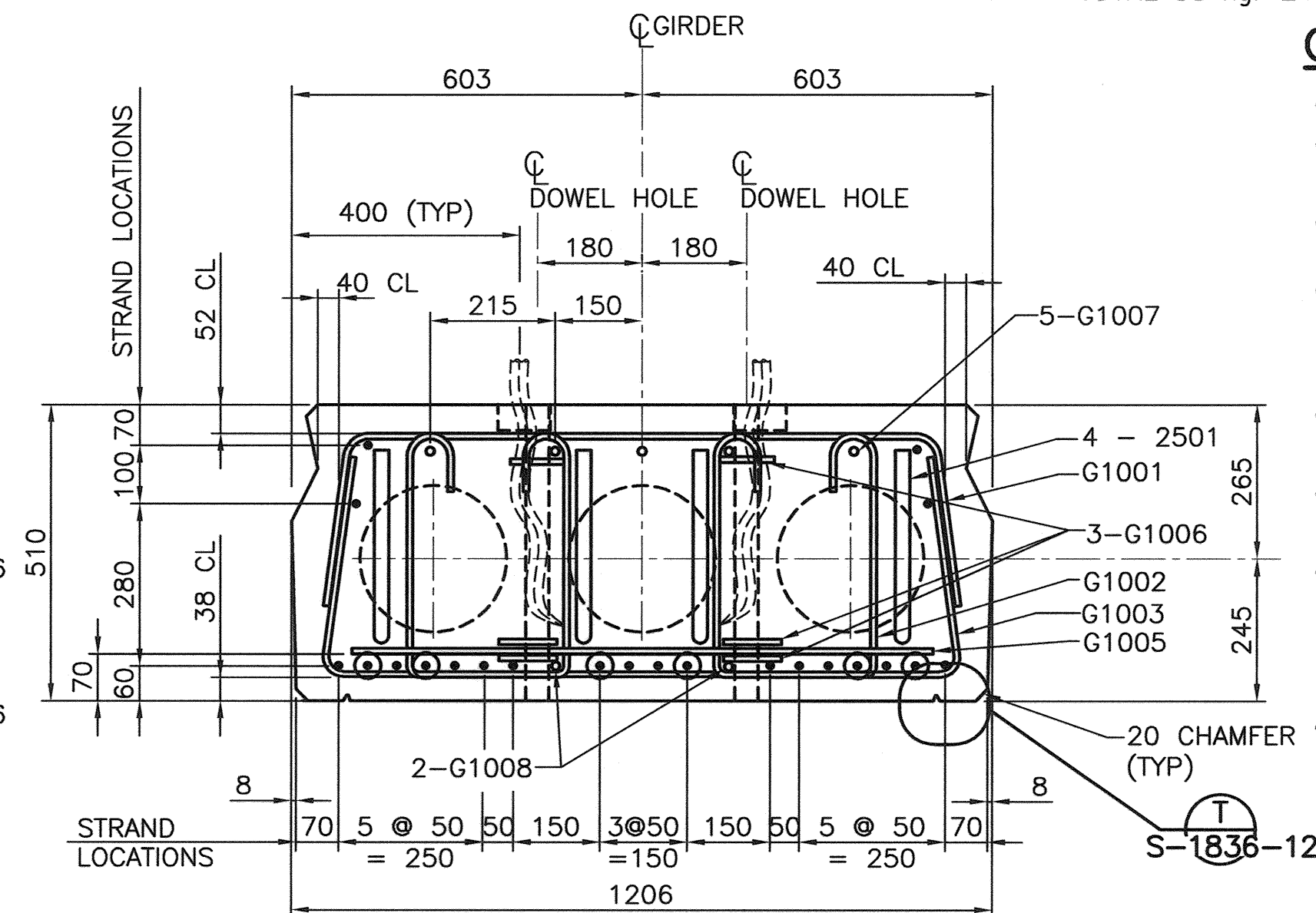




TOTAL BLACK kg: 551
TOTAL SS kg: 24



- FOR ADDITIONAL NOTES, REFER TO S-1836-12
- 22 – 15ø, 7 WIRE STRANDS REQUIRED PER GIRDER:
18 BOTTOM, 4 TOP
- STRANDS MARKED DEBONDED FOR 1600 mm FROM THE GIRDER ENDS
- FORCE IN PRESTRESSING STEEL:
INITIAL TENSION BEFORE RELEASE = 193 kN/STRAND
DESIGN FORCE AFTER LOSSES = 141 kN/STRAND
- MAXIMUM TENSION IN BOTTOM FIBRE AT MIDSPAN
= 1.84 MPa
- CALCULATED MASS OF ONE INTERIOR GIRDER
= 13.85 TONNES
- BAR LIST ABOVE ASSUMES A GIRDER WITH ONE PIER END AND ONE ABUTMENT END. FOR A GIRDER WITH TWO PIER ENDS, BARS NOTED BY A * MAY BE ELIMINATED. FOR GIRDERS WITH TWO ABUTMENT ENDS, BARS NOTED BY * SHALL BE DOUBLED IN QUANTITY.
- DOWEL HOLES SHALL BE 40 ø FOR SPILL THROUGH TYPE ABUTMENTS AND 45 ø FOR BACK WALL TYPE ABUTMENTS



Technical drawing of a rectangular box girder cross-section. The drawing shows a central web with three circular voids. Dimensions include a total width of 1206, a total height of 100.70, and a web thickness of 8. The first void is labeled "252 DIA VOID (TYP)". Callouts identify components: G1506 (top flange), G1001 (web), 2-G1008 (bottom flange), 4-G2501 (bottom flange), C1028 (bottom flange), G1003 (bottom flange), 5-G1007 (top flange), and S-1836-12 (top flange). A "VOID LOCATIONS" section is shown at the bottom with dimensions 244, 359, 359, and 244. A "GIRDER" label is at the top center.

12

50 CL

150

220

40 CL

40 CL

50 CL

4 - G1501SS
@ 300 MAX

4 - G1503SS
4 - G1502SS
@ 350

3

2501

NOTE:
ADJUST REINFORCEMENT WHERE NECESSARY TO
ACCOMMODATE CHANNEL CONNECTORS. AVERAGE
STIRRUP SPACING TO BE MAINTAINED

Technical drawing of a reinforced concrete girder showing cross-sections and reinforcement details. The drawing includes labels for various reinforcement bars (G1001, G1003, G1506, G1002, G1005, G2501, G1007, G1006, G1508, G1008) and their spacing. A table at the bottom summarizes the spacing for each bar type. The drawing is oriented horizontally with a vertical centerline.

Bar Type	Spacing	Length
G1001 SPACING	50	
G1003 SPACING	50	
G1506 SPACING	200	
G1028 SPACING	500	
G1002 SPACING	50	

NOTE:
SEE FOR APPROACH SLAB SEAT REINFORCEMENT AND DIMENSIONS



PERMIT TO PRACTICE
DILLON CONSULTING LIMITED
Date 2012-01-04
PERMIT NUMBER: P2528
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

DESIGNER

The seal of the Professional Engineer of Alberta. It is a circular emblem. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "ALBERTA" at the bottom. Inside the ring, the name "KEVIN G. WILLIAMS" is written in a stylized script. Below the name is a depiction of a bison standing on a pedestal that resembles a bridge or a set of stairs. At the base of the pedestal are the letters "P.E.".

DATE 2012-01-04

CHECKER

PROFESSIONAL ENGINEER
ALBERTA
JAMES A. SKELTON
DATE 2012-01-04

			
			
			
			
			
			
REV	DATE	REVISIONS	RY

RECOMMENDED DIRECTOR BRIDGE ENGINEERING <i>D Williamson</i>	APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH <i>Archie Hall</i>
DATE <i>MAR. 5/12</i>	

Government of Alberta ■ Transportation

PRESTRESSED CONCRETE
12 m SLW-510
INTERIOR GIRDER

AI BAR CODE	DATE 2012-01-04	SHEET 1 OF 6	DRAWING S-1828-12
-------------	--------------------	-----------------	----------------------