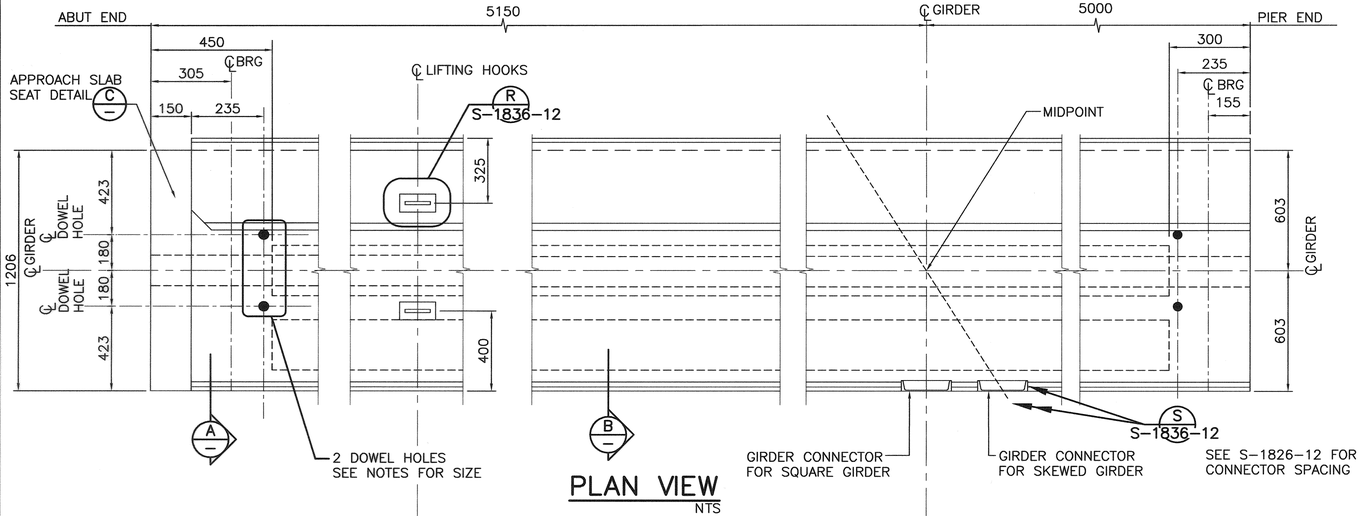
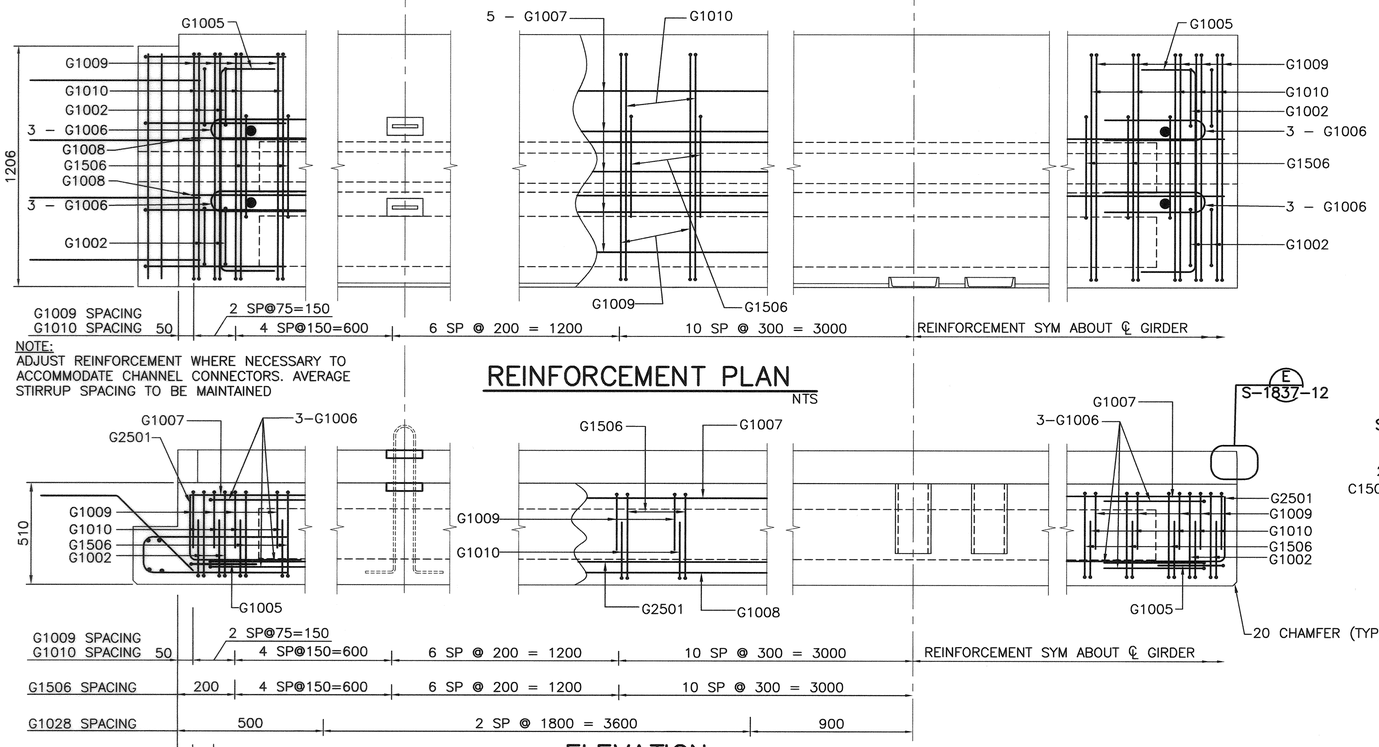


PLAN VIEW
NTS

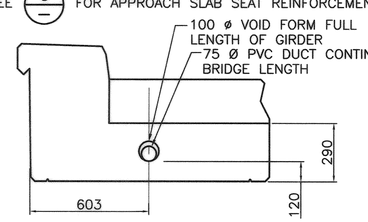


NOTE:
ADJUST REINFORCEMENT WHERE NECESSARY TO ACCOMMODATE CHANNEL CONNECTORS. AVERAGE STIRRUP SPACING TO BE MAINTAINED

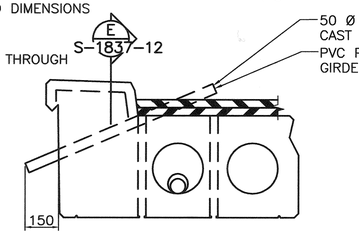
REINFORCEMENT PLAN
NTS

ELEVATION
NTS

NOTE:
SEE C FOR APPROACH SLAB SEAT REINFORCEMENT AND DIMENSIONS



D SECTION
1:15



PIER END PVC DRAIN
1:15

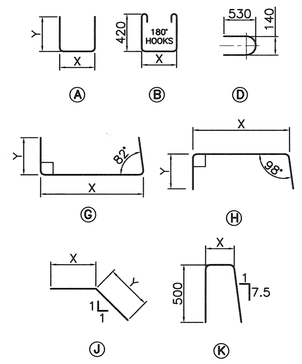
BAR LIST: FOR SQUARE GIRDER

MARK	SIZE	No.	TYPE	X	Y	LENGTH	MASS
G1002	10	8	B	280		1350	8
G1005	10	2	A	1000	300	1550	3
G1006	10	12	D			1140	11
G1007	10	5	STR			9900	39
G1008	10	2	STR			9900	16
G1009	10	45**	H	1065	360	1740	62
G1010	10	45	G	1095	360	1770	63
G1028	10	6	STR			1100	5
G1501SS	15	4*	J	500	560	1060	7
G1502SS	15	4*	A	200	700	1515	10
G1503SS	15	2*	STR			1100	4
G1504SS	15	4*	STR			400	3
C1505CR	15	34	K	250		1250	67
G1506	15	41	B	410		1530	99
C2001CR	20	2	STR			9900	47
G2501	25	4	A	9830	350	10400	163

* AND ** SEE GENERAL NOTES

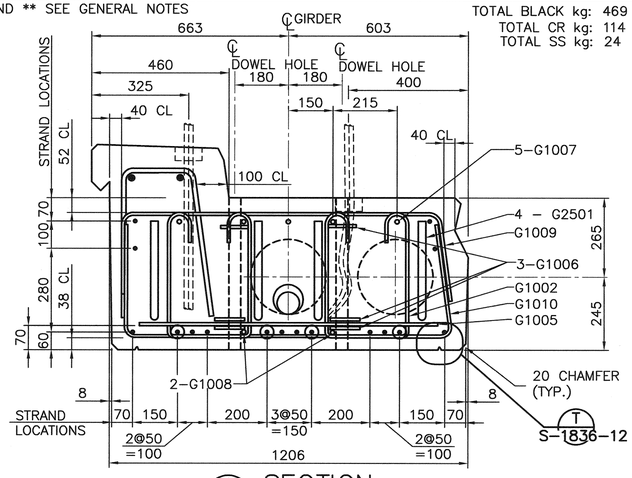
TOTAL BLACK kg: 469
TOTAL CR kg: 114
TOTAL SS kg: 24

BAR TYPES
(ALL BAR DIMENSIONS ARE OUT TO OUT UNO)

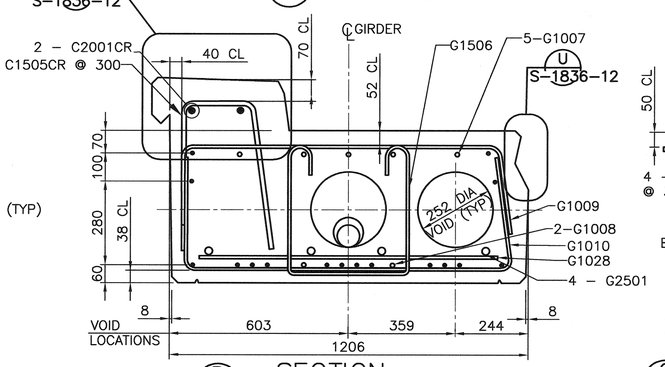


GENERAL NOTES

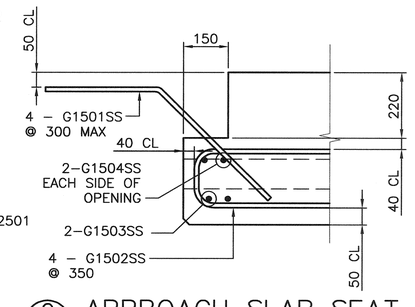
- FOR ADDITIONAL NOTES, REFER TO S–1836–12
- 16 – 15ø, 7 WIRE STRANDS REQUIRED PER GIRDER: 12 BOTTOM, 4 TOP
- STRANDS MARKED ⦿ DEBONDED FOR 1600 mm FROM THE GIRDER ENDS
- FORCE IN PRESTRESSING STEEL:
  INITIAL TENSION BEFORE RELEASE = 193 kN/STRAND
  DESIGN FORCE AFTER LOSSES = 157 kN/STRAND
- NO TENSION IN BOTTOM FIBRE AT MIDSPAN
- CALCULATED MASS OF ONE INTERIOR GIRDER = 14.74 TONNES
- CURB SHALL BE CAST MONOLITHIC WITH THE GIRDER AS SHOWN
- 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
- ** BAR QUANTITY PROVIDED DOES NOT INCLUDE ADDITIONAL BARS REQUIRED AT EACH BRIDGERAIL POST LOCATION. QUANTITY OF G1009 BARS TO BE INCREASED TO ACCOUNT FOR 2 ADDITIONAL BARS AT EACH BRIDGERAIL POST LOCATION, ONE EACH SIDE
- DOWEL HOLES SHALL BE 40 ø FOR SPILL THROUGH TYPE ABUTMENTS AND 45 ø FOR BACK WALL TYPE ABUTMENTS



A SECTION
1:10



B SECTION
1:10
BRIDGERAIL AND ANCHORS NOT SHOWN FOR CLARITY



C APPROACH SLAB SEAT
1:10

• WORK THESE DRAWINGS TOGETHER: S–1824–12, S–1825–12, S–1826–12, S–1827–12, S–1836–12, S–1837–12

DILLON CONSULTING

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

DESIGNER
PROFESSIONAL ENGINEER ALBERTA KEVIN G. WILLIAMSON RR RR
DATE 2012–01–04

CHECKER
PROFESSIONAL ENGINEER ALBERTA JAMES A. SKEET RR RR
DATE 2012–01–04

REV	DATE	REVISIONS	BY
6			
5			
4			
3			
2			
1			

RECOMMENDED
DIRECTOR BRIDGE ENGINEERING
D Williamson

APPROVED
EXECUTIVE DIRECTOR
TECHNICAL STANDARDS BRANCH
DATE MAR. 5/12

Government of Alberta ■ Transportation

PRESTRESSED CONCRETE 10 m SLW–510 EXTERIOR GIRDER

AI BAR CODE	DATE	SHEET	DRAWING
	2012–01–04	2 OF 6	S–1825–12

2011-12-13

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