

**BAR LIST: CURB GIRDER**

MARK	SIZE	TYPE	X	Y	LENGTH
G1001	10	A	1125	390	1 905
G1003	10	J	100	510	1 080
G1005C	10	C	1125		2605 (2670)
G1008	10	A	1000	300	1 600
G1010	10	STR	FULL LENGTH OF GIRDER		
G1011	10	STR	FULL LENGTH OF GIRDER		
G1502	15	J	140	VARIABLES	VARIABLES
G1503	15	J	140	VARIABLES	VARIABLES
G1504C	15	D	405		2250 (2310)
G1505C	15	Q	150	VARIABLES	VARIABLES
G1516	15	S	420	140	700
G2014	20	STR			1 100
G2015	20	STR			950
G2501	25	STR	FULL LENGTH OF GIRDER		
C1501C	15	STR	FULL LENGTH OF GIRDER		
C1502C	15	STR	FULL LENGTH OF GIRDER		
C1503W	15	STR	(GALVANIZED)		950
C1504C	15	G	425	20	985 (1115)
C1505C	15	G	VARIABLES	VARIABLES	VARIABLES
C1506C		H			915
C2501C	25	STR	FULL LENGTH OF GIRDER		
C2502C	25	STR	FULL LENGTH OF GIRDER		
C2503C	25	STR	FULL LENGTH OF GIRDER		
C2904	29	STR	(GALVANIZED DYWIDAG BAR)		2370

**GENERAL NOTES**

**MATERIALS**

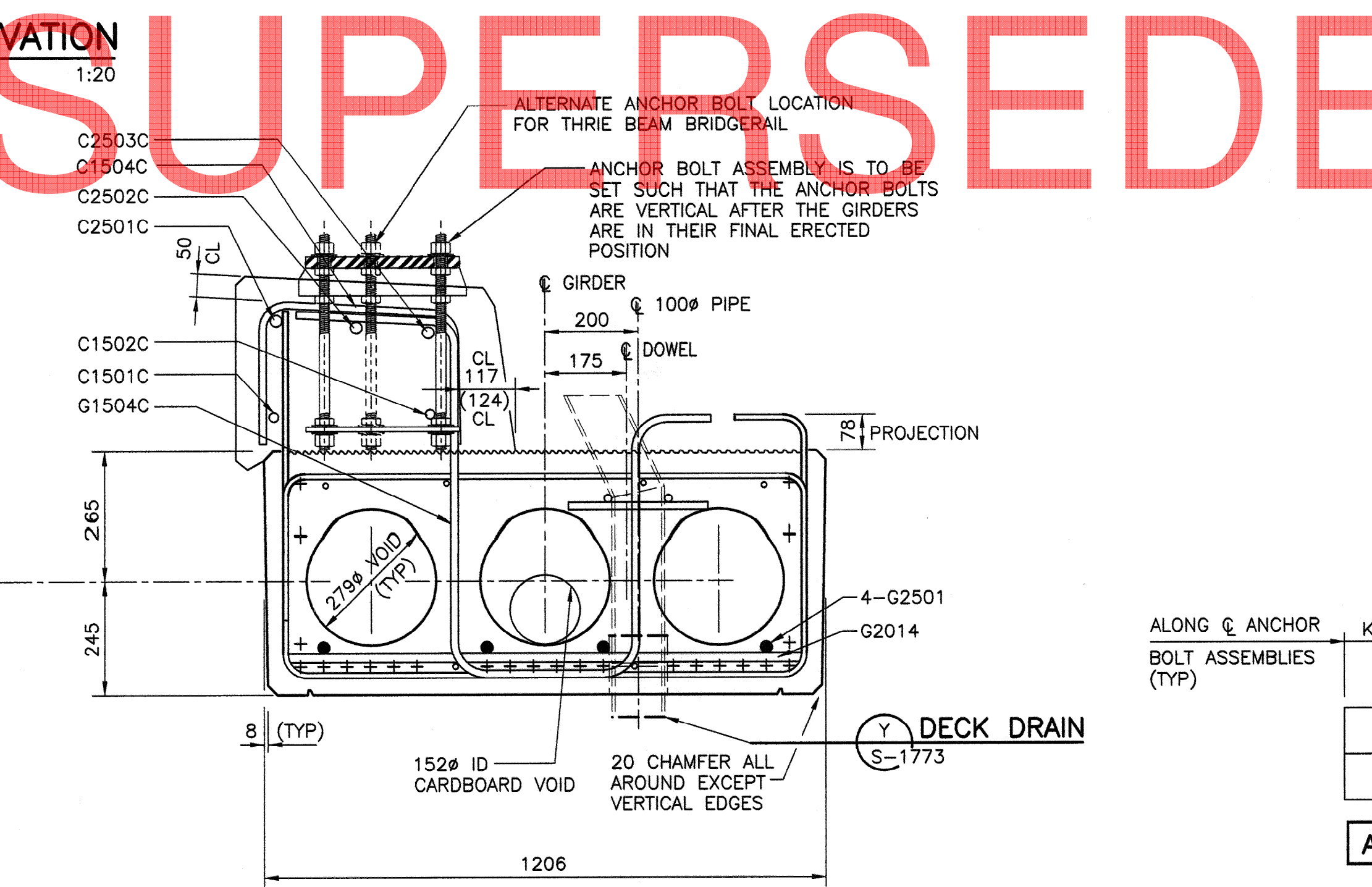
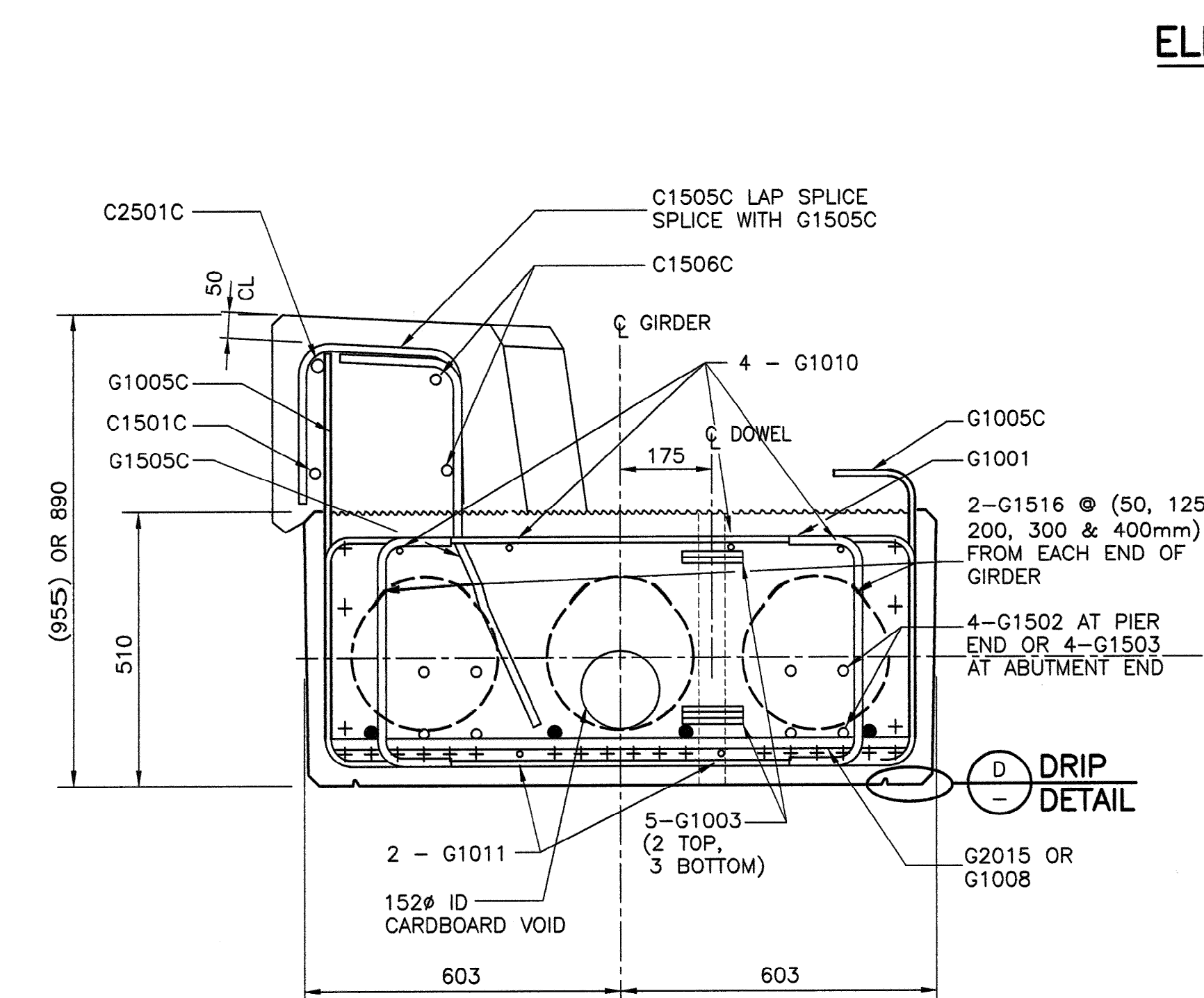
- CONCRETE FOR GIRDERS SHALL BE STANDARD WEIGHT SILICA FUME CONCRETE WITH A 28 DAY STRENGTH OF 50 MPa AND A RELEASE STRENGTH OF 30 MPa.
- CONCRETE FOR CURBS SHALL BE STANDARD WEIGHT CONCRETE WITH A 28 DAY STRENGTH OF 50 MPa.
- PRESTRESSING STEEL SHALL BE 15 Ø, 7 WIRE LOW RELAXATION STRAND (fpu = 1860 MPa).
- REINFORCING STEEL SHALL BE GRADE 400 (NO TACK WELDING OF STIRRUPS ALLOWED)

**FABRICATION**

- GIRDERS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 7 - PRECAST CONCRETE UNITS.
- CURBS FOR CURB GIRDERS SHALL BE PLANT CAST AFTER RELEASE OF STRANDS.
- SANDBLAST ROUGHENING IS REQUIRED ON ALL GIRDER ENDS.
- FOR SKEW END DETAILS SEE DRAWING S-1776
- ALL EXPOSED CORNERS TO HAVE A 20 mm CHAMFER OR FILLET UNLESS OTHERWISE NOTED.
- SEE DRAWING S-1773 FOR GIRDER FINISHES.
- FOR DECK DRAIN DETAILS AND LOCATIONS SEE DRAWINGS S-1771 AND S-1773
- FOR BRIDGERAIL POST SPACINGS, SEE SITE SPECIFIC DRAWING.

**ERECTION**

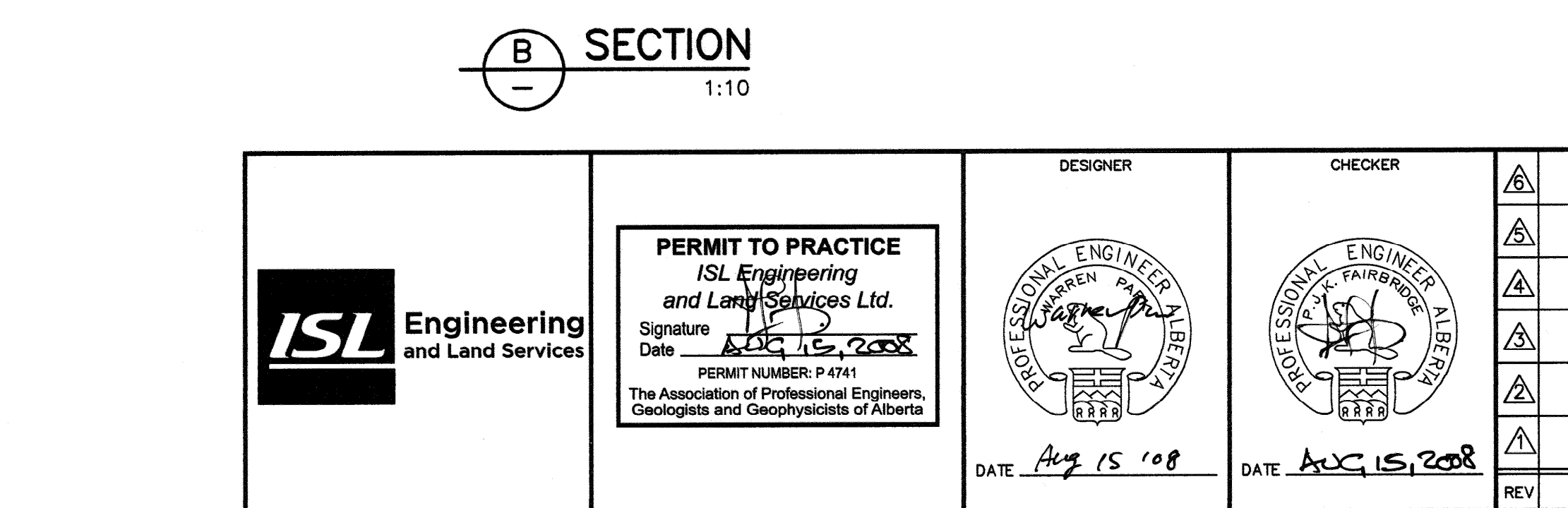
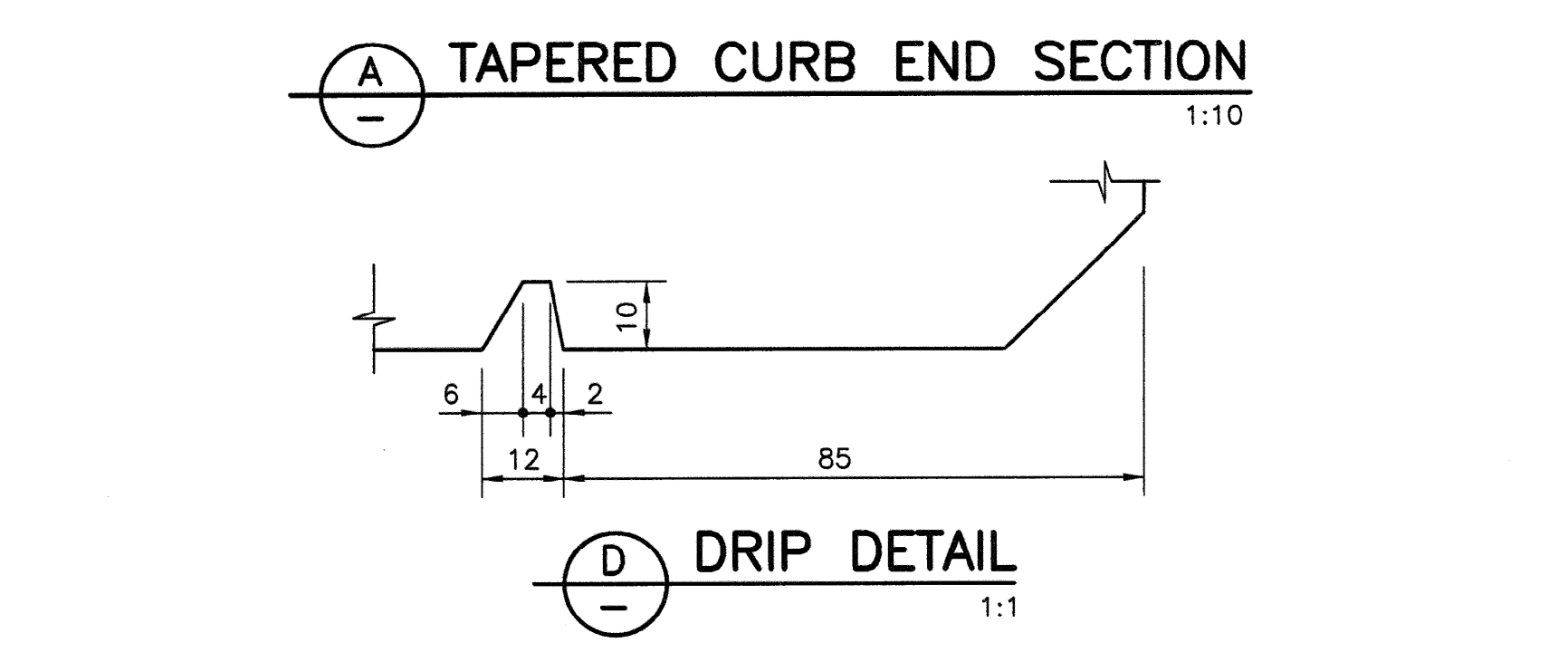
- FOR THEORETICAL GIRDER WEIGHTS SEE GIRDER INFORMATION TABLE ON DWG S-1774
- LIFTING FORCE AT EACH HOOK MUST BE MORE THAN 60° TO HORIZONTAL AT ALL TIMES.
- MAINTAIN GIRDER TOP SURFACE LEVEL AT ALL TIMES.



SUFFIX LETTER "C" ON BAR MARK DENOTES EPOXY COATED BARS.  
 SUFFIX LETTER "W" ON BAR MARK DENOTES WELDABLE BARS.  
 -MIN EPOXY COATED BEND: 10M = 80°  
 15M = 120°

**NOTE**

- FOR BAR TYPES SEE DRAWING S-1774
- FOR DIMENSIONS THAT VARY WITH CURB HEIGHT, DIMENSIONS ARE GIVEN AS:  
 XXX FOR 350 CURB  
 (XXX) FOR 415 CURB



ISL Engineering and Land Services

**PERMIT TO PRACTICE**  
 ISL Engineering and Land Services Ltd.  
 Signature: [Signature]  
 Date: Aug 15, 2008  
 PERMIT NUMBER: P 474  
 The Association of Professional Engineers, Geologists and Geophysicists of Alberta

DESIGNER: [Signature]  
 CHECKER: [Signature]

RECOMMENDED DIRECTOR BRIDGE ENGINEERING: [Signature]  
 APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH: [Signature]

Alberta Transportation

**STANDARD SLC COMPOSITE BRIDGES**  
**SLC510 PRESTRESSED CONCRETE GIRDERS**  
**CURB GIRDER**

DEPARTMENT BAR CODE: -  
 DATE: 2008-06-30  
 SHEET: 5 OF 7  
 DRAWING: S-1775-08

**SUPERSEDED**

NH AUG 18, 2008 S-1775-08.DWG -DRAWN-BY-RWK-