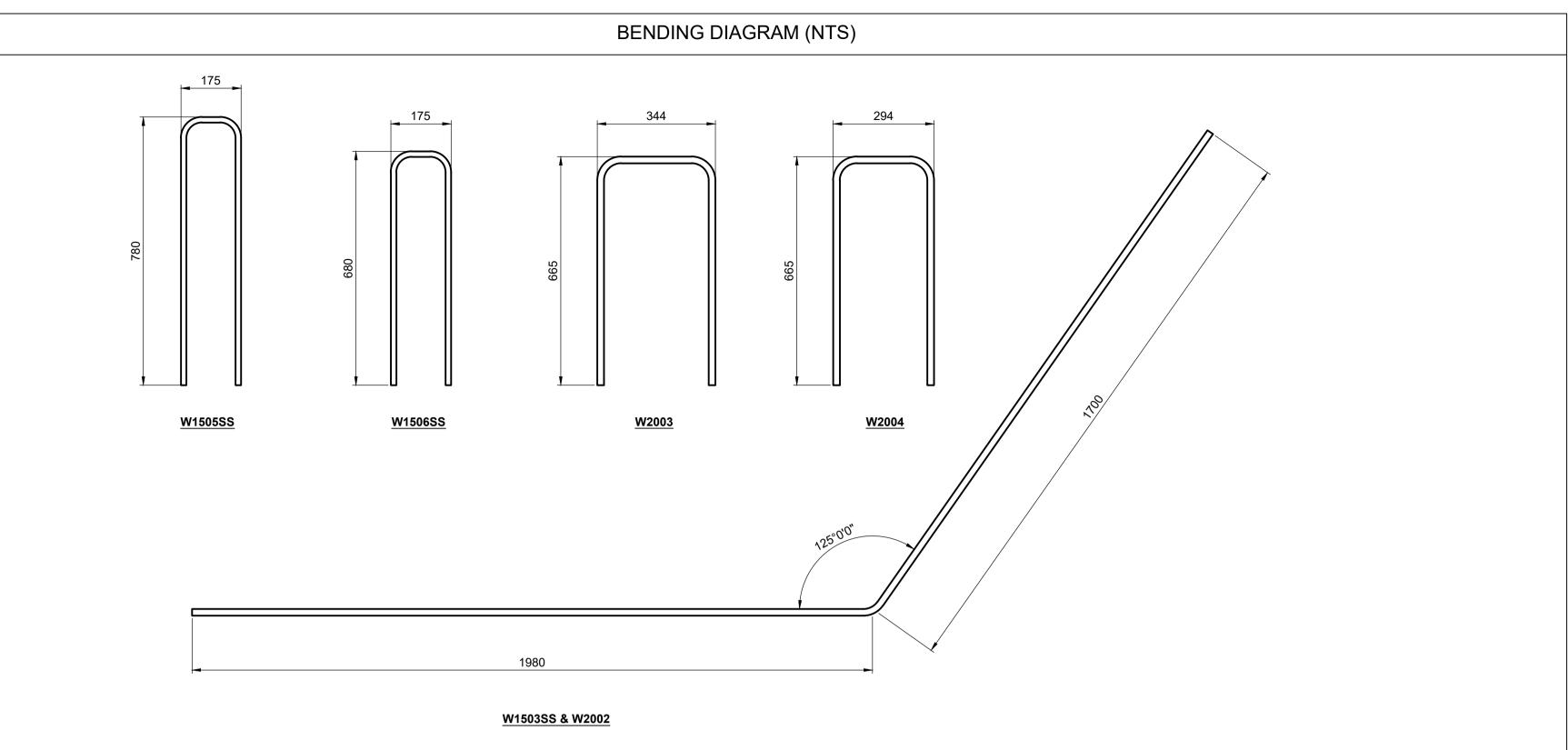
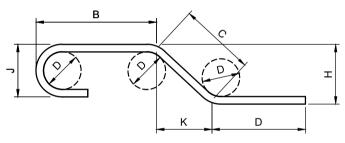
CORBEL BEAM (W)					
MARK	TYPE	PIN DIAMETER	LENGTH (mm)	NO. BARS	MASS
W1501SS	STR	-	4800	144	1085.18
W1502SS	STR	-	7665	4	48.14
W1503SS	BENT	-	3680	4	23.11
W1504SS	STR	-	5600	4	35.17
W1505SS	BENT	-	1735	1400	3813.53
W1506SS	BENT	-	1535	111	267.50
W1507SS	STR	-	700	12	13.19
W2001	STR	-	12000	76	2147.76
W2002	BENT	-	3680	5	43.33
W2003	BENT	-	1674	1320	5203.80
W2004	BENT	-	1624	105	401.57
W2005	STR	-	6150	5	72.42
TOTAL REINFORCING STEEL MASS - STAINLESS STEEL (kg):					5285.82

TOTAL REINFORCING STEEL MASS - BLACK STEEL (kg):

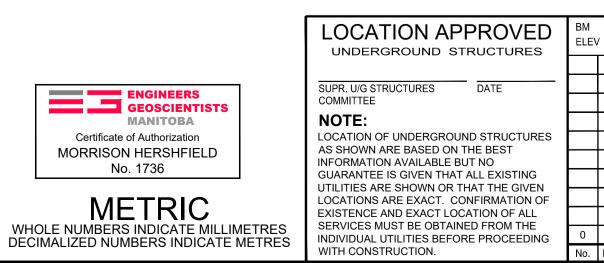


- 1. ALL DIMENSIONS GIVEN IN BENDING DIAGRAM ARE OUT-TO-OUT, EXCEPT RADII AND EXTENSIONS ON 90°, 135° & 180° HOOKS. EXTENSIONS ON 90°, 135° & 180° HOOKS ARE THE "A" OR "G" DIMENSIONS FOR THE STANDARD 90°, 135° & 180° HOOKS. REFERENCED FROM THE RSIC "MANUAL OF STANDARD PRACTICE". RADII ARE INSIDE DIMENSIONS. ALL REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-S6 CLAUSE 8.14 "DETAILS OF REINFORCEMENT AND SPECIAL DETAILING PROVISIONS", UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
- 2. ALL REINFORCING STEEL SHALL BE DEFORMED STEEL, UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
- 3. ALL REINFORCING WITH SUFFIX "SS" SHALL BE STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A955M, 300 SERIES, MINIMUM GRADE 420, OF ONE OF THE FOLLOWING UNS DESIGNATIONS: S31653, S31803, OR S32304.
- 4. ALL REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA G30.18 "CARBON STEEL BARS FOR CONCRETE REINFORCEMENT" GRADE 400W, UNLESS NOTED OTHERWISE.
- 5. LIKE BARS SHALL BE BUNDLED, SECURELY TIED AND IDENTIFIED AS TO MARK AND SITE NO. BY APPROPRIATE MEANS. ALL OTHER ITEMS TO BE IDENTIFIED IN A SIMILAR FASHION.
- 6. UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME ALL HOOKS AND BENDS ON A BAR. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

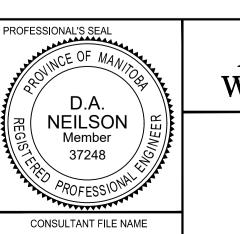


ENLARGED VIEW BAR BENDING DETAILS











THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT **ENGINEERING DIVISION**

TACHE PROMENADE

AND MATERIAL

CITY DRAWING NUMBER B250-17-26 OF 26 70 BILL OF STEEL REINFORCING

DRAWING No.

BID OPPORTUNITY No. 754-2017

LOCATION APPROVED | BM ELEV