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- 1. STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CAN/CSA S16 (2014).
- 2. STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF CAN/CSA G40.20/G40.21 (2013).

ROLLED W-SHAPES	CSA G40.21-350W
ROLLED SHAPES & PLATES	CSA G40.21-300W
HSS SECTIONS	CSA G40.21-350W
	CLASS C
STANDARD PIPE	ASTM A53-12
COLD FORMED STEEL	CSA S136-12
ANCHOR BOLTS (GALV.)	ASTM F1554-20
	GRADE 36
	GALV.

BOLTS, NUTS, & WASHERS ASTM F3125-21 WELDING ELECTRODES

3. WELDING SHALL BE IN ACCORDANCE WITH CSA W59 (2013), BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.1-09 (R2014). ALL WELDS TO BE 6mm UNLESS NOTED OTHERWISE.

GRADE A325

CSA W48-14

- 4. FIELD CONNECTIONS SHALL BE BOLTED 19mm DIAMETER A325 BEARING TYPE UNLESS NOTED OTHERWISE. BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH CSA S16 (2014).
- 5. CONTRACTOR SHALL SUBMIT P. ENG. SEALED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
- 6. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FINISHED AS INDICATED BELOW, UNLESS OTHERWISE NOTED, OR APPROVED EQUAL.:
 - <u>GALVANIZED STEEL</u> SURFACE PREP. TO SP8 (PICKLING) - HOT DIPPED GALVANIZED TO ASTM A123-13
- 7. COLOUR OF STRUCTURAL AND MISCELLANEOUS STEEL: REFER TO ARCH.
- 8. FIELD TOUCH-UP WITH ZINC-RICH COATING, TO MATCH GALVANIZED STEEL. ACCEPTABLE PRODUCT: ZINGA, GAL-VIZ OR APPROVED EQUAL.
- 9. FIELD TOUCH-UP PAINT TO CONNECTIONS, WELDS, BURNED OR DAMAGED SURFACES, AND UNFINISHED SURFACES AT COMPLETION OF ERECTION AND SHALL MATCH THICKNESS AS SPECIFIED.
- 10. PAINTED SURFACES OF EXISTING STEEL SHALL BE GROUND SMOOTH TO BARE METAL PRIOR TO FIELD WELDING.
- 11. HEAT STRAIGHTENING PROCEDURE SHALL BE APPROVED BY A WELDING ENGINEER AND BE SUBMITTED PRIOR TO REPAIR OF BENT MEMBERS.

ALUMINUM:

- 1. ALUMINUM SHALL BE IN ACCORDANCE WITH CAN/CSA S157-05 (R2010) AND THE ALUMINUM ASSOCIATION "2015 SPECIFICATION FOR ALUMINUM STRUCTURES". ALUMINUM FOR PLATES AND EXTRUDED SHAPES SHALL BE TYPE 6061-T651.
- 2. ALUMINUM WELDING SHALL BE AN ACCORDANCE WITH CSA W59.2-M1991 (R2013) BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.2-11. ALL WELDS TO BE 6mm UNLESS OTHERWISE NOTED.
- 3. INSTALL NYLTITE ELECTROCHEMICAL ISOLATION GASKETS TO ELECTRICALLY ISOLATE DISSIMILAR METALS (SUPPLIER: SPAENAUR).
- 4. ALL ALUMINUM IN CONTACT WITH CONCRETE OR CAST INTO CONCRETE TO HAVE BITUMINOUS ISOLATION COATING. ACCEPTABLE PRODUCT: INTERTUF 16 OR APPROVED EQUAL.
- 5. ALL NUTS, BOLTS AND WASHERS SHALL BE ALLOY TYPE 6061-T6.
- 6. ALUMINUM SHALL BE PAINTED AS FOLLOWS:
- SURFACE PREPARATION TO SP7 (BRUSH-OFF BLAST) SOLVENT WIPE WITH T-10 EPOXY SOLVENT - ONE COAT OF DEVRAN 201 UNIVERSAL EPOXY PRIMER AS PER MANUFACTURER'S DIRECTIONS. (4-6 MILS WET).
- ONE FINISH COAT OF DEVTHANE 379 ALPHATIC URETHANE AS PER MANUFACTURER'S DIRECTIONS. (4-6 MILS WET).

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