

CHAIN LINK

1 General

1.1 RELATED WORK

.1 Coordinate the requirements of this section with all other sections, including but not limited to:

.1 Section 02511 Crusher Dust

.2 Section 02523 Concrete

.3 Section 02875 Infields

1.2 QUALITY CONTROL

.1 **City of Saskatoon, Parks Branch** to approve chain link construction.

.1 Chain link construction requirements: CAN2-138.3-M80.

1.3 INSPECTION

.1 Notify **Consultant** for inspection of:

.1 Layout of backstops and fencing, before excavation of footings.

.2 Support Posts, before installation of chain link fabric.

.3 Backstop construction.

.4 Fencing and gate (if applicable) construction.

2 Products

2.1 MATERIALS

.1 Posts and rails: CAN2-138.1-M80, galvanized steel pipe, schedule 40.

.1 Backstop sizes (refers to outside diameter):

	JUNIOR BACKSTOP	SENIOR BACKSTOP
End / corner posts	89mm (3 1/2")	114mm (4 1/2")
Line post	60mm (2 3/8")	73mm (2 7/8")
Horizontal rails	41mm (1 5/8")	48mm (1 7/8")
Centre brace	41mm (1 5/8")	41mm (1 5/8")

CHAIN LINK

.2 Overhang and Extension Components (SENIOR BACKSTOP ONLY):

Top horizontal rails	41mm (1 5/8")
End / corner posts	89mm (3 1/2")
Line posts	73mm (2 7/8")
Brace (Extension only)	48mm (1 7/8")

.3 Home run fences (size refers to outside diameter):

End post	89mm (3 1/2")
Gate post	89mm (3 1/2")
Line post	60mm (2 3/8")
Foul line post	89mm (3 1/2")
Additional Components:	
Straining post	89mm (3 1/2")
Top rail	41mm (1 5/8")
Centre brace	41mm (1 5/8")
Bottom rail	41mm (1 5/8")

.4 Other fences (size refers to outside diameter):

End posts	89mm (3 1/2")
Corner posts	89mm (3 1/2")
Straining posts	89mm (3 1/2")
Top rail	41mm (1 5/8")
Centre brace	41mm (1 5/8")

.2 Gate frames: ASTM A120-82, galvanized steel pipe, schedule 40.

.1 Size: 41mm O.D. (1 5/8")

.2 Joints: electric welded. Galvanize after welding.

.3 Hardware: galvanized malleable iron hinges, latch and latch catch with provision for padlock attached and operated from either side of installed gate.

.3 Chain-link fence fabric:

.1 New, galvanized, chain-link fencing, woven in 50mm mesh. Min. 0.5 kg zinc galvanize per square metre of surface. Knuckled top and bottom.

.2 Continuous vertical, see details for height.

.3 Gauge of chain link fencing:

Backstop Fencing - Vertical	6 gauge
Backstop Fencing- Overhangs	9 gauge
All other Fencing	9 gauge

CHAIN LINK

- .4 Tension wire: Single strand, galvanized steel wire, #6 gauge.
- .5 Tensioner to be comprised of:
 - .1 6mm x 25 mm galvanized steel "L" bracket (100mm x 40mm).
 - .2 9mm (3/8") eye bolt, 100mm long, c/w two nuts.
- .6 Tie wire fasteners: single strand aluminium wire, 5mm diameter.
- .7 Tension bar: 5 x 20mm minimum galvanized steel.
- .8 Tension bands: 3 x 20mm minimum galvanized steel.
- .9 Fittings and hardware: Galvanized steel, malleable, or ductile cast iron. Post caps to provide waterproof fit, fasten securely over posts, and to carry top rail.

2.2 FINISHES

- .1 Galvanizing for chain link fabric: CAN2-138.1-M80 Grade 2.

3 Execution

3.1 LAYOUT

- .1 Establish and maintain line and grade controls using appropriate survey personnel and equipment.
 - .1 Contractor is responsible for layout accuracy.
 - .2 Approval of layout is required before excavation of footings.

3.2 EXCAVATION

- .1 Excavate to depths, see details.
 - .1 Remove all loose material in excavations and compact with equipment suitable for the Work.

3.3 INSTALLATION

- .1 Concrete Footings:
 - .1 Excavation: bulb bottom of holes for corner, end, gate and intermediate posts at every 60m along fence line.
 - .2 Brace posts in plumb position, true to line and elevation until concrete is cured.
 - .3 Do not install fence fabric until concrete has cured min of 5 days.

CHAIN LINK

- .2 Posts:
 - .1 End posts: install end posts at end of fence.
 - .2 Line post spacing: 3m apart, measured parallel to ground surface.
 - .3 Straining posts: required where the distance between two end posts or end posts and corner posts exceeds 150m. Straining posts are required equally spaced to max. 150m.
 - .4 Corner posts: install corner post where change in alignment exceeds 20 degree angle.
 - .5 Gate posts: install gate posts on both sides of gate openings.
- .3 Centre braces are required at the following locations, and placed in centre of panel, parallel to ground surface:
 - .1 Between end posts and nearest line post.
 - .2 Between gate posts and nearest line post.
 - .3 On both sides of corner posts.
 - .4 On both sides of straining posts.
 - .5 Between all posts on backstops.
- .4 Top rail: Install top rail between posts.
 - .1 Fasten securely to terminal posts and secure waterproof caps.
- .5 Do not proceed with installation of chain link fabric until approval is given.
- .6 Chain Link Fabric: Install on inside face of backstop and home run fence.
 - .1 Stretch fabric tightly to tension recommended by manufacturer. Fasten to end, corner, gate and straining posts with tension bar.
 - .2 Secure fabric to all posts, rails and tension wire with tie wires at 450mm intervals. Minimum two twists.
- .7 Tension bar: Install tension bar at each corner post, end post and gate post. Thread through wire mesh.
 - .1 Attach tension bar parallel to post with tensions bands at the following spacing:
 - .1 Backstop fencing: 300mm O.C. (maximum) to a height of 1.83m, and 450mm O.C. (maximum) from 1.83m height and above.

CHAIN LINK

.2 Other fencing: 450mm O.C. (maximum).

3.4 FINISH GRADING

- .1 Provide a smooth uniform gradient between posts.
- .2 Provide clearance between bottom fence and ground surface as follows:

Backstops and home run fences	20mm
Other fencing	75mm
Gates	40mm

- .1 Gate clearances are not to exceed 50mm.

3.5 TOUCH-UP

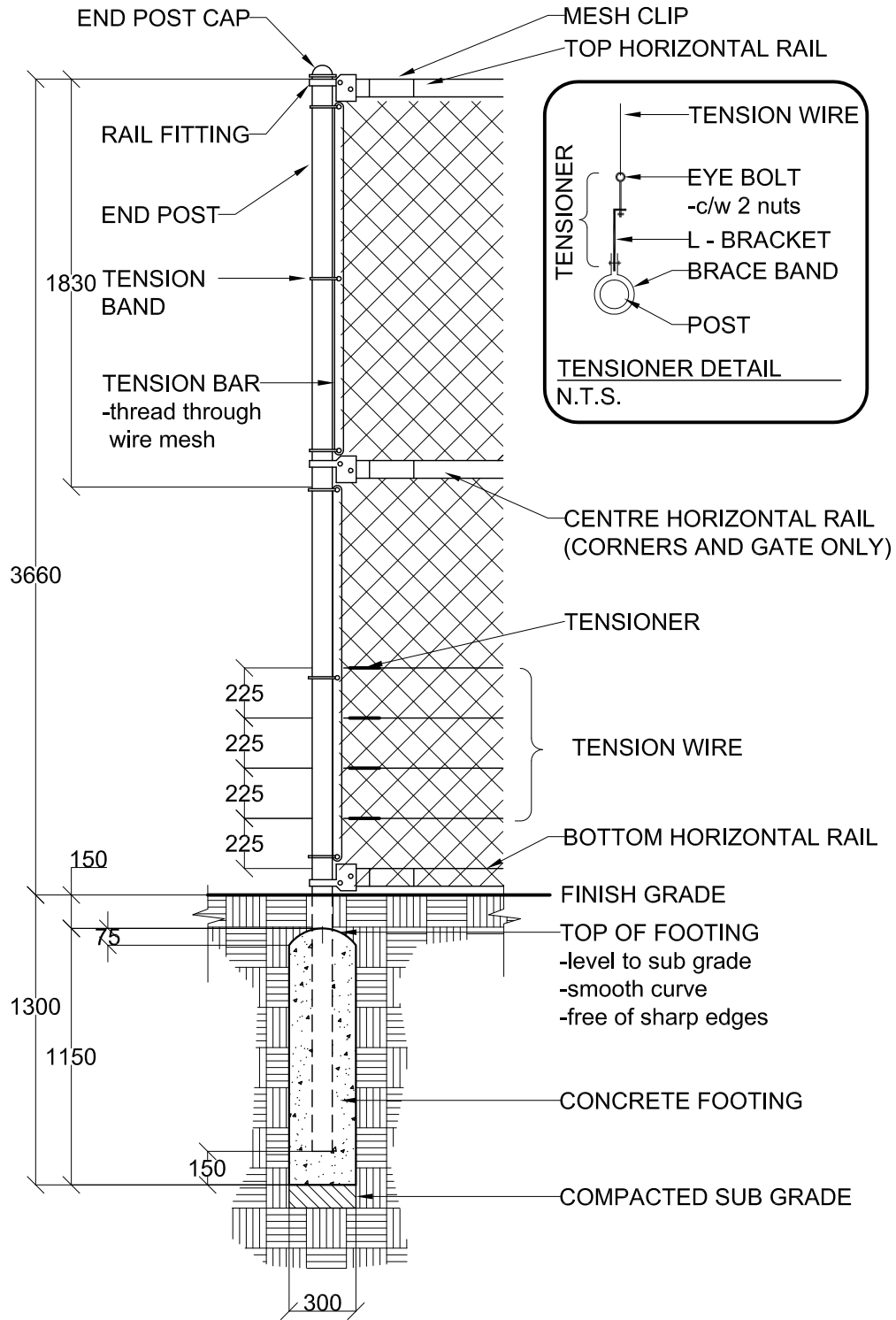
- .1 Repair damaged galvanized surfaces.
 - .1 Clean damaged surfaces with wire brush removing loose and cracked coatings.
 - .2 Apply two coats of approved zinc pigmented paint to damaged areas.

3.6 CLEAN UP

- .1 Clean up and remove all surplus materials and scrap after each working session.

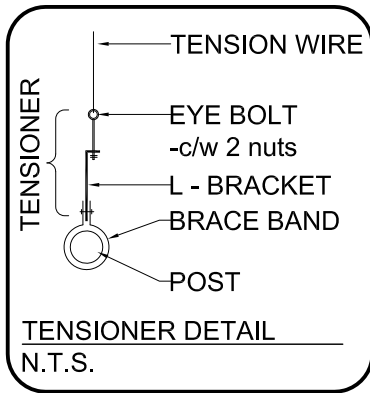
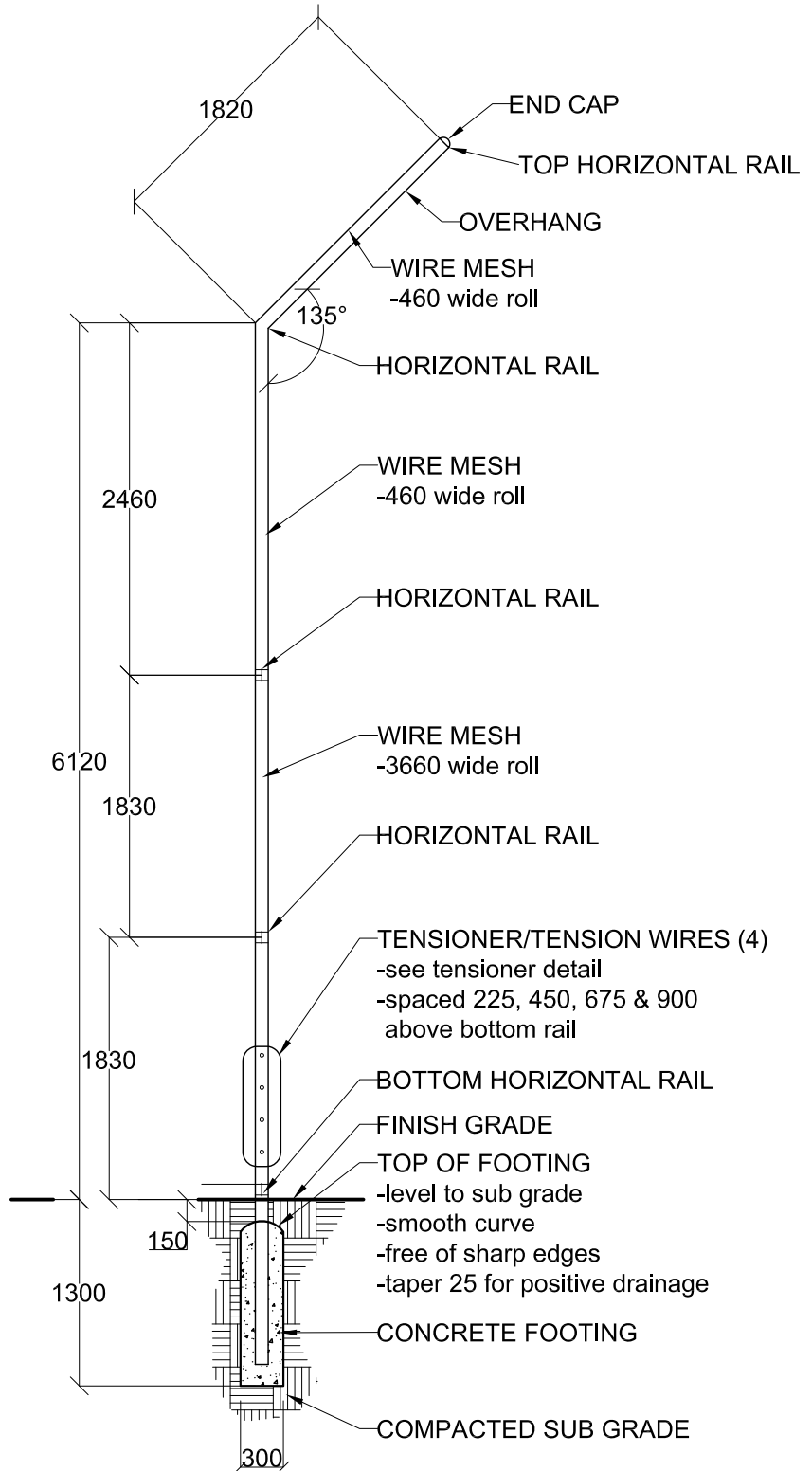
END OF SECTION

H:\Data\Design\PROJECTS\4209 Landscape\2-Master Specs\Drawings\2012 drawings\2012 drawings\2012-02831-01 Junior Backstop.dwg



NOTE:
1. All units are in millimeters U.N.O.

H:\Data\Design\PROJECTS\4209 Landscape\2-Master Specs\2012 Standard Details & Specs\Drawings\2012 drawings\2012-02831-02 Senior Backstop.dwg



NOTE:

1. All units are in millimeters U.N.O.
2. Material sizes refer to specifications

(This page left intentionally blank)