

WSP-6 SITE – TEMPORARY CONSTRUCTION FENCES

1. SCOPE AND DEFINITIONS

This section provides performance criteria and relevant specifications for all temporary construction fences for Women's institutions.

Several options for temporary fences are available. Their selection must weigh the following factors: location of construction, the risk of breach, and the duration of construction. Type of fence and conditions of use:

Type 1 Fence for open facilities without fenced perimeter provides a physical barrier to prevent unauthorized persons access to the site for reasons of safety and to protect the contractor's assets. This fence is no different from that used in the community.

Type 2 Fence in restricted or controlled offender areas such as where routine vehicle movement takes place within the service compound and therefore where breach concerns should not be elevated. This fence serves to prevent unauthorized access for similar reasons as above and as such the fence type is also as above. Construction truck traffic is via the Principle entrance vehicle sally port where it is inspected for contraband. Type 2 Fence shall also be used where construction duration is short term as for a repair or replacement of existing systems or where the work site shifts by phase from building to building. The institution in this case will schedule offender movement and activities so as to mitigate risk of breach. Truck traffic to the site will be escorted from the Principle entrance.

Type 3 Fence used in offender movement and activity areas within the main perimeter and where breach is possible. Construction truck traffic is via the main entrance vehicle sally port where it is inspected for contraband. Trucks are escorted to the construction site. This fence is used for long term projects which have a substantial scope and cost. Fences here must assure appropriate security based on assessed risk. . Type 2 fence may be used here complemented by being topped with BTC to assure adequate security against scaling.

Type 4 Fence used for long term projects in proximity to the perimeter fence. This fence forms a secure compound which is integrated with the perimeter fence. Type 3 fence is used except that it is fitted with a Fence detection system and covered by camera and lighting integrated with the PIDS. A dedicated access will be constructed on the perimeter fence line for construction truck traffic to be controlled by contracted commissionaires.

2. RELATED SECTIONS

2.1 *Technical Criteria Document sections:*

WSP-1 - Site Development

WSP-2 - Fences

WSP-3 - Gates/Sally Ports

WSP-4 - Exterior Lighting

WSP-5 - Traffic Circulation and Parking

2.2 *Other CSC document*

Statement of Technical Requirements – Temporary Construction Fences at Medium and Maximum Security Institutions, Correctional Service Canada, Technical Services Branch – Electronic Systems, Issue 5, April 8, 2011.

2.3 National Master Specification section:

01 35 13 – Security Requirements (prior to 2004: 01003 – Security Requirements)

01 56 26 – Temporary Fencing

01 56 36 – Temporary Security Enclosures

3. PERFORMANCE CRITERIA**3.1 Type 1 Fence**

This fence type shall be a self supporting welded mesh sectional fence typically available by rental ('Modu-loc' or similar). The height of the fence shall be no less than 1800 mm high but may be higher depending on local availability. The fence must be stable and self supporting. Welded wire mesh is considered to be non-climbable due to its mesh size which inhibits the insertion of a foot to aid climbing. The top of the fence also has its vertical wire projecting over the top rail to discourage breach. Matching vehicle gates are padlocked after work hours. The temporary construction fence shall be removed from the institution by the contractor after construction is completed.

3.2 Type 2 Fence

This fence type shall be similar to the above but with a height of 2.4 m. This fence must not come in contact with the perimeter fence nor be closer than 5 m to the perimeter fence so as not to interfere with PIDS camera viewing on the interior side of the institution. The temporary construction fence shall be removed from the institution by the contractor after construction is completed.

3.3 Type 3 Fence

This fence shall be similar to the Type 2 fence except that it shall be topped with BTC, with a base securely pinned in the ground from each side and with the ground compacted to prevent tunneling. Matching swing type vehicle gates shall be padlocked after hours. As for type 2 fence, this fence must not come in contact with the perimeter fence nor be closer than 5 m. Truck access to this compound shall be via the Main entrance with all vehicles escorted. The temporary construction fence shall be dismantled and removed by the contractor after construction is completed.

3.4 Type 4 Fence

This type of fence forms part of the perimeter. It shall be a Type 3 fence with BTC and equipped with a fence detection sensor connected to the M CCP. Cameras are also required to monitor the fence line connected to the M CCP as well as lighting to enhance viewing. Access is through a single gate similar to the emergency gate and is secured with padlocks and keys under the control of a Commissionaire. A commissionaire's temporary hut is required within the construction site. The fence and systems must be dismantled and removed by the contractor.

4. RELEVANT SPECIFICATIONS**4.1 Type 1 Fence**

Rental construction protection fence comes with welded wire mesh and components conforming to ASTM F2919 Welded Mesh Fence specification. Mesh is galvanized steel no larger than 50X150mm (vertically long rectangle) with vertical wire projecting and exposed at top. Fence must be at least 1800mm high and secured with pins inserted in the ground through the 'T' base support. Sections of fence must be securely clamped

together to ensure that the each fence run acts as a continuous barrier which will resist lateral forces and separation. Sloped runs must be protected by mesh panels to ensure continuity of barrier from ground up.

4.2 *Type 2, 3, and 4 Fence*

This fence is similar to Type 1 above but shall be 2400mm high. Ground along the fence run shall be surfaced with compacted gravel. 'Barbed tape concertina' (BTC) where required shall be as per SP-2-4.2 except that it could be directly attached with galvanized twist ties or clips to the top rail or wire resting against the mesh on the threat side. Use of steel arms fastened to the posts may also be considered for the support of 2 barbed wires and BTC.

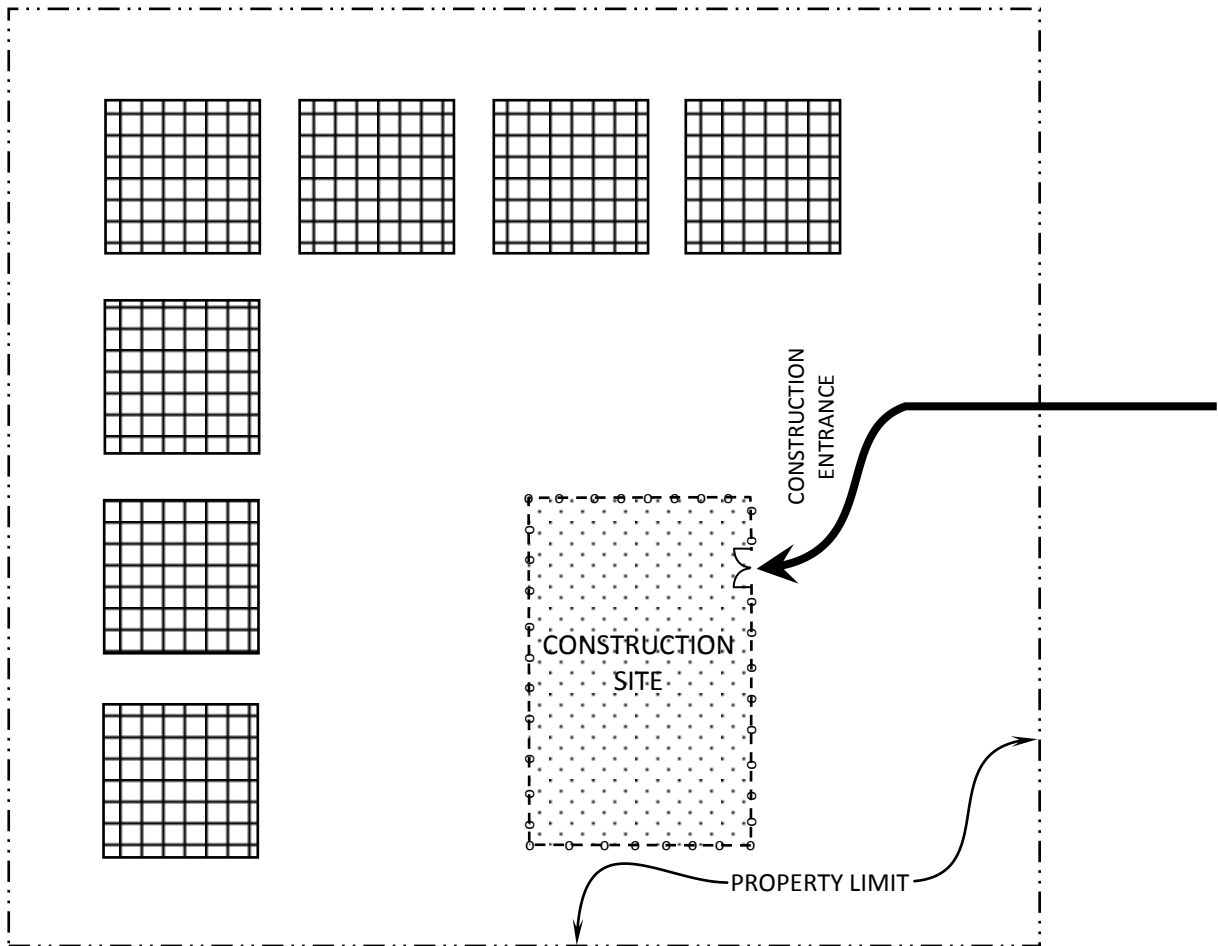


PLATE WSP-6-1 – TYPE 1 FENCE

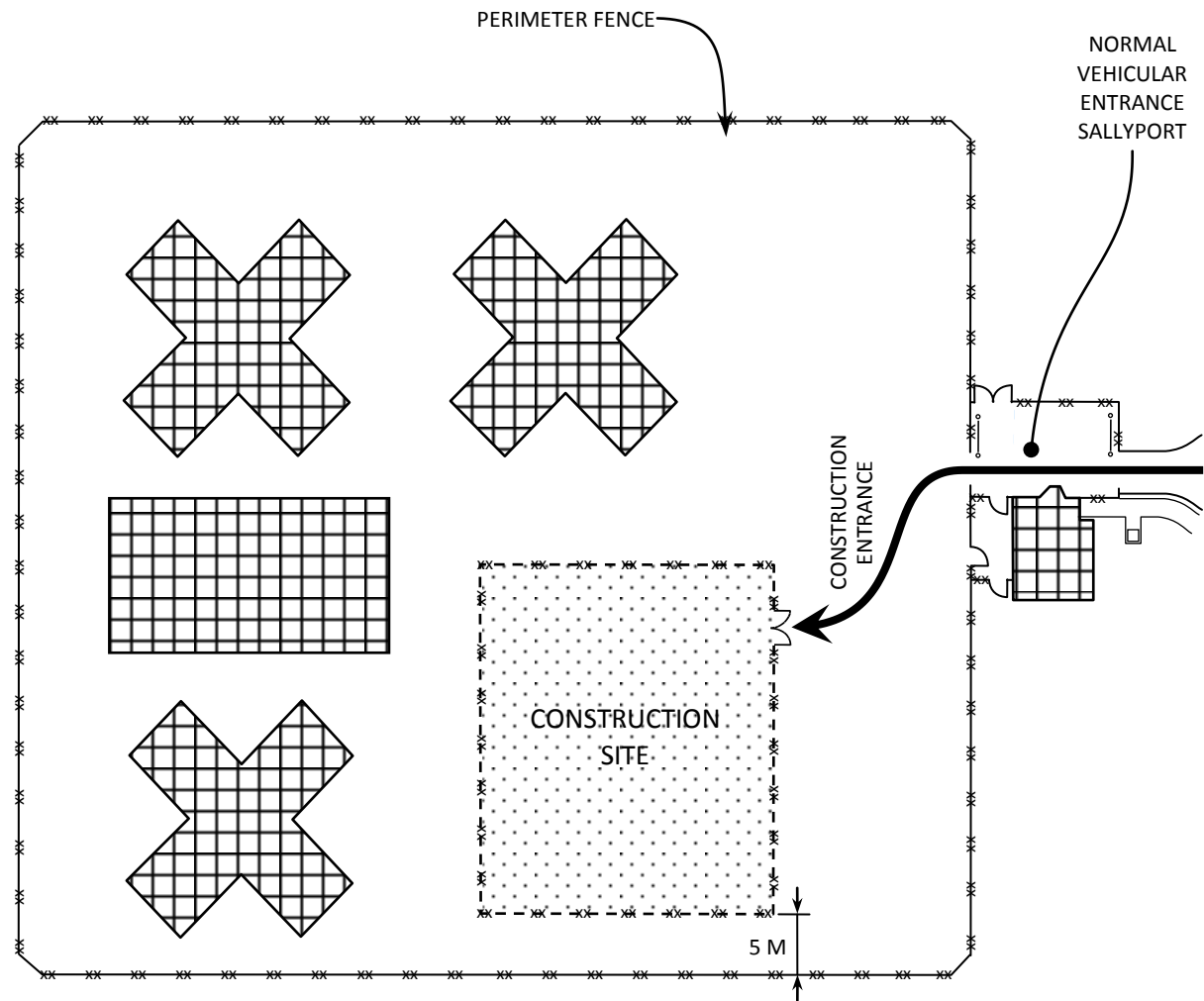
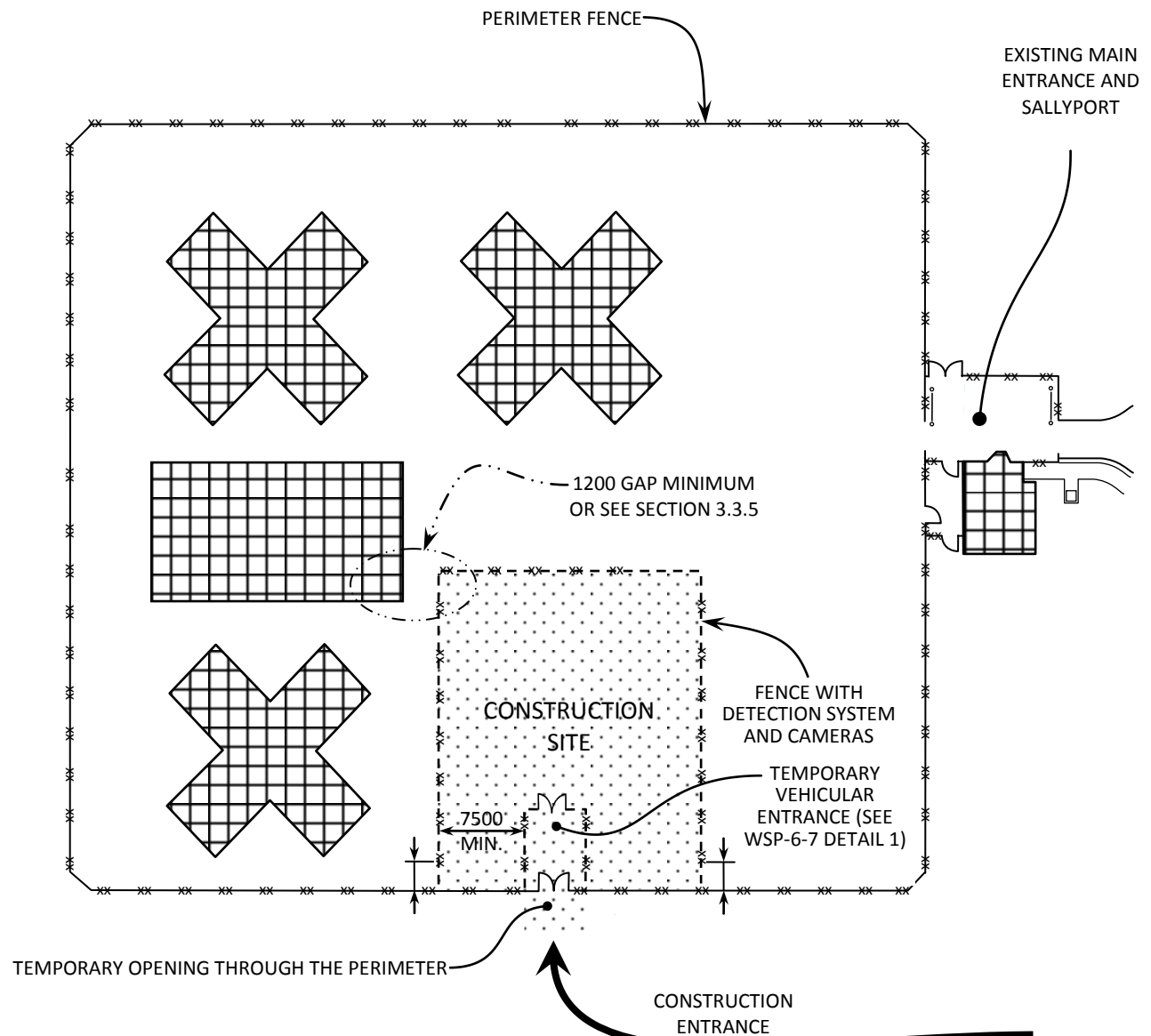
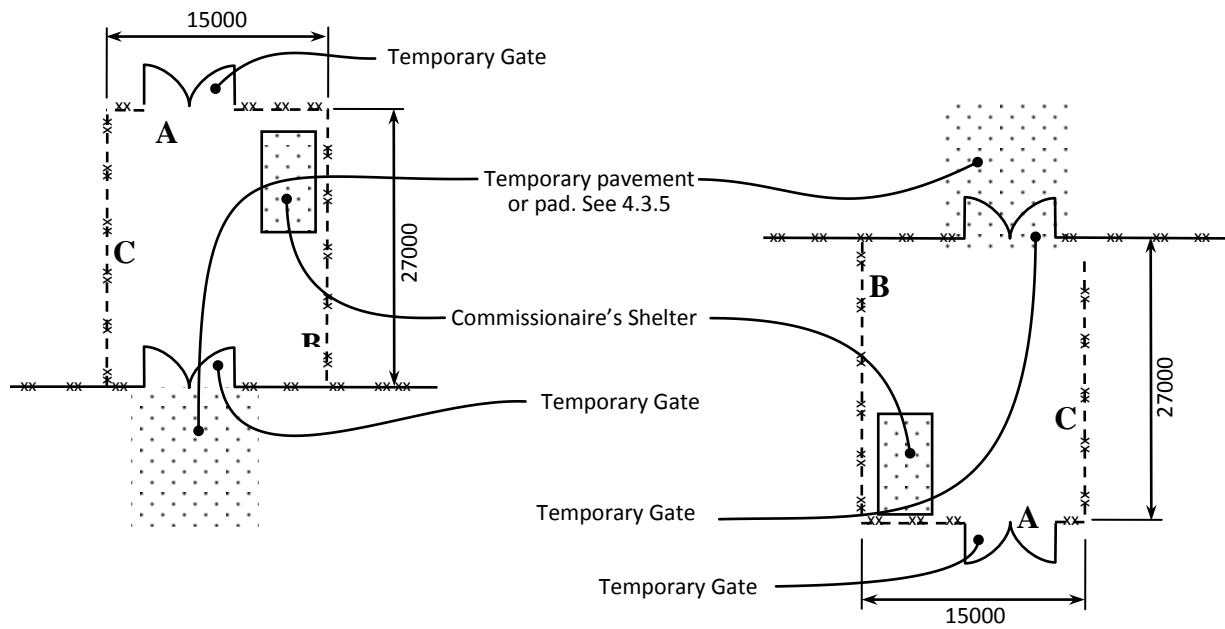


PLATE WSP-6-2 – TYPE 2 AND 3 FENCE

PLATE WSP-6-3 – TYPE 4 FENCE

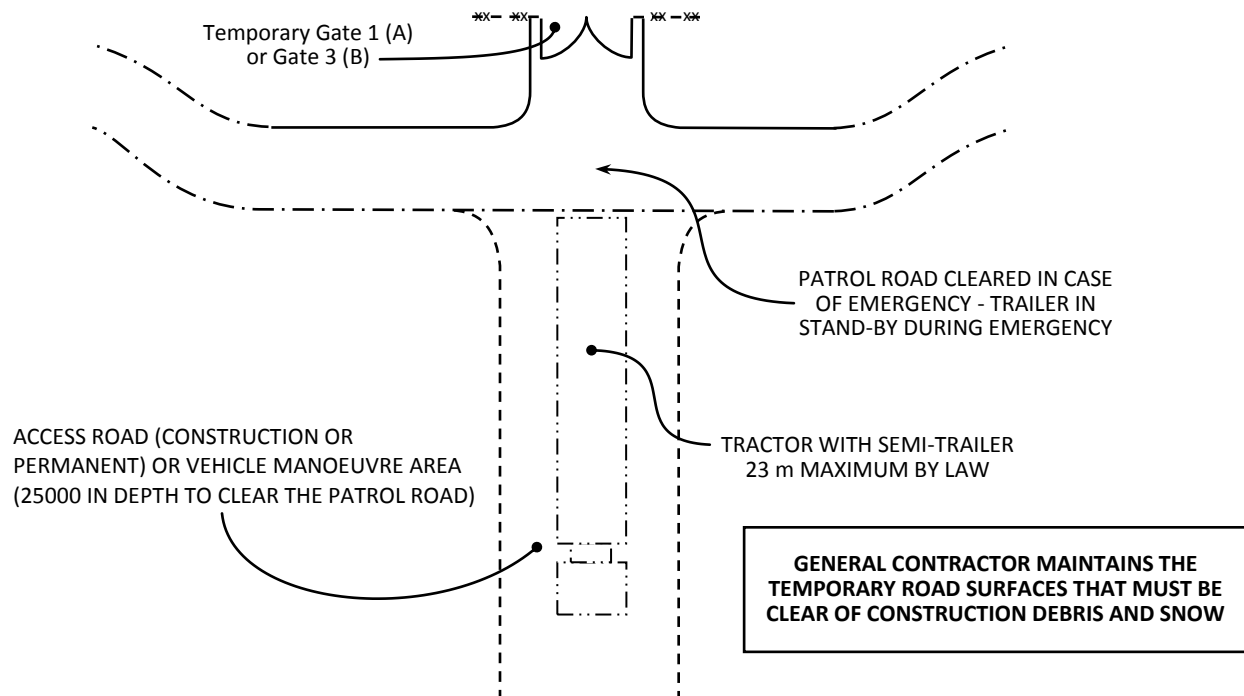




A – INSIDE THE INSTITUTION

B – OUTSIDE THE INSTITUTION

WSP-6-4 – TYPE 4 FENCE –
ENTRANCE OPTIONS



WSP-6-5 – TYPE 4 FENCES –
VEHICLE ACCESS DETAIL