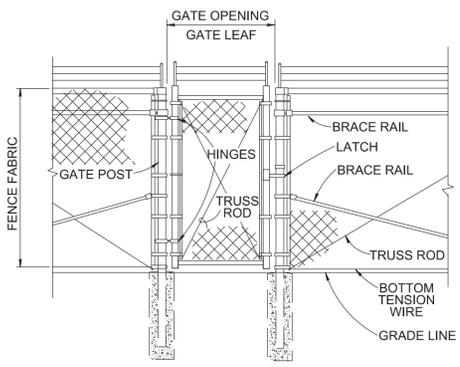
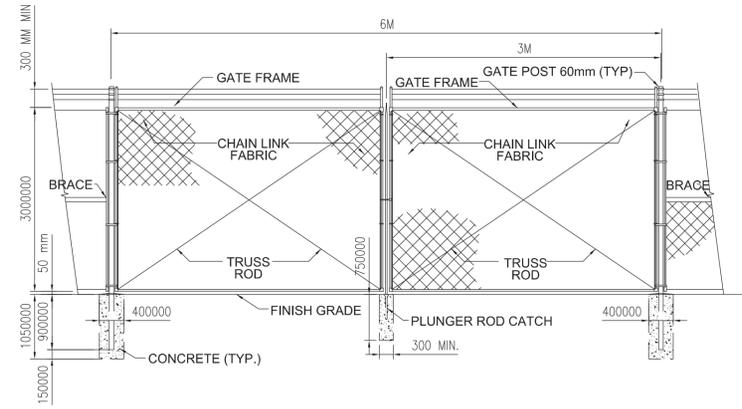


1 PERIMETER FENCING DETAIL
C-104 SCALE: 1=50

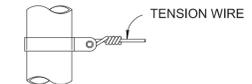


4 PEDESTRIAN GATE DETAIL
C-104 SCALE: 1=50

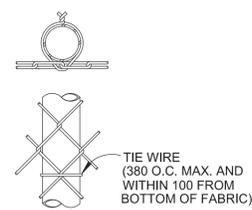


3 VEHICLE GATE DETAIL
C-104 SCALE: 1=50

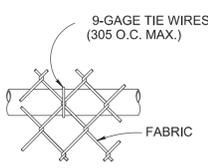
7 TENSION BAND DETAIL
C-104 SCALE: 1=50



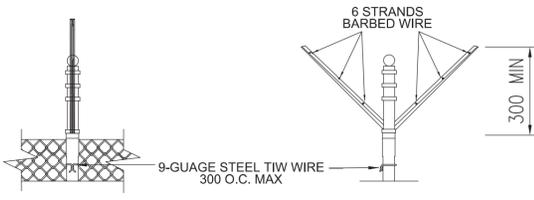
8 LINE POST ATTACHMENTS
C-104 SCALE: 1=50



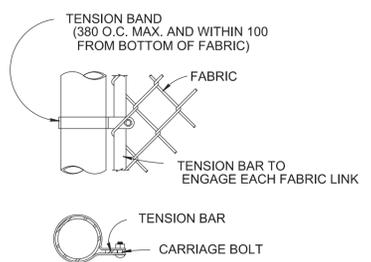
9 BRACE RAIL ATTACHMENTS
C-104 SCALE: 1=50



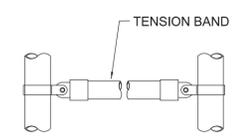
10 OUTRIGGER DETAIL
C-104 SCALE: 1=50



6 END OF GATE POST DETAIL
C-104 SCALE: 1=50



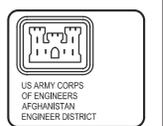
11 BRACE RAIL CLAMP DETAIL
C-104 N.T.S.



8. Tension band to be installed on both sides of all gates and as shown on in other locations on this set of plans.

GENERAL NOTES

- Provide fencing materials that conform to the requirements of ASTM A 116, ASTM A 702, ASTM F 626.
- Ferrous-metal components and accessories, except as otherwise specified, must be hot-dip galvanized after fabrication. Provide zinc coating of weight not less than 550 gram per square meter 1.94 ounces per square foot, as determined from the average result of two specimens, when tested in accordance with ASTM A 90/A 90M. Provide zinc coating that conforms to the requirements of the following:
 - Pipe: Grade A in accordance with ASTM F 1083
 - Hardware and accessories: ASTM A 153/A 153M, Table 1
 - Surface (ASTM F 1043):
 - External: Type B-B surface zinc with organic coating, 5 gram per square meter minimum thickness of acrylated polymer.
 - Internal: Surface zinc coating of 275 gram per square meter minimum.
- Fabric: FS RR-F-191/1; Type I, zinc-coated steel, 9 gage. Mesh size, 51 mm. Provide selvage knuckled at one selvage and twisted and barbed at the other. Fabric must consist of (3.8 millimeter) No. 9-gage wires woven into a 51 millimeter diamond mesh, with dimensions of fabric and wire conforming to ASTM A 116, ASTM A 702 and ASTM F 626, with 366 gram per square meter zinc galvanizing. Fence heights to 3658 millimeter must have one-piece fabric widths. Provide Fabric in single lengths between stretch bars with bottom barbs placed approximately 38 millimeter above the ground line. Pull fabric taut and tied to posts, rails, and tension wire with wire ties and bands. Install fabric on the security side of fence, unless otherwise directed. Fabric must remain under tension after the pulling force is released.
- Posts, Bottom rails, and braces: FS RR-F-191/3 line posts; Class 1, steel pipe, Grade A. End, corner, and pull posts; Class 1, steel pipe, Grade A. Braces and rails; Class 1, steel pipe, Grade A, in minimum sizes listed in FS RR-F-191/3 for each class and grade. Contractor must provide bracing assemblies at end and gate posts and at both sides of corner and pull posts, with the horizontal brace located at midheight of the fabric. Install brace assemblies so posts are plumb when the diagonal rod is under proper tension. Provide two complete brace assemblies at corner and pull posts where required for stiffness and as indicated.
 - Minimum acceptable line posts must be DN50 2.0 inch O.D. pipe weighing 5.44 kilogram per linear meter.
 - Provide minimally acceptable end, corner, and pull posts DN70 O.D. pipe weighing 8.62 kilogram per linear meter.
 - Bottom Rail must conform to minimum sizes specified in FS RR-F-191/3 for each class and grade unless members are to be oversized.
 - Post bracing must consist of DN40 O.D. pipe Grade A weighing 3.38 kilogram per linear meter and 10 millimeter adjustable truss rods and turnbuckles.
- Tension wire must be galvanized, 3.7 millimeter, coiled spring wire, provided at the bottom of the fabric only. Provide Zinc Coating that weighs not less than 490 gram per square meter. Install tension wire by weaving them through the fabric and tying them to each post with not less than 3.9 millimeter galvanized wire or by securing the wire to the fabric with 3.5 millimeter ties or clips spaced 610 millimeter on center.
- Provide stretcher bars that have one-piece lengths equal to the full height of the fabric with a minimum cross section of 5 by 20 millimeter, in accordance with ASTM A 116, ASTM A 702 and ASTM F 626. Provide stretcher bar bands for securing stretcher bars to posts that are steel, wrought iron, or malleable iron spaced not over 381 millimeter on center. Bands may also be used in conjunction with special fittings for securing rails to posts. Provide bands with projecting edges chamfered or eased. Thread stretcher bars through or clamped to fabric 102 millimeter on center and secured to posts with metal bands spaced 381 millimeter on center.
- Provide a gate post for supporting each gate leaf as follows:
 - Up to 1829 millimeter wide DN75 O.D. pipe Grade A weighing 8.62 kilogram per linear meter
 - Over 1829 millimeter wide and up to 3962 millimeter wide DN75 O.D. pipe Grade A weighing 8.62 kilogram per linear meter
- Tension band to be installed on both sides of all gates and as shown on in other locations on this set of plans.



REV.	DATE	DESCRIPTION	DATE	APPR.

DESIGNED BY:	CHKD BY:	DRAWING CODE:	FILE NAME:	PLOT SCALE: AS SHOWN
DATE:				

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN CORPS OF ENGINEERS APO AE 96338	ENGINEERING AND CONSTRUCTION DIVISION
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KABUL, AFGHANISTAN
FENCING DETAILS
SHEET REFERENCE NUMBER:

REV	DATE	DESCRIPTION

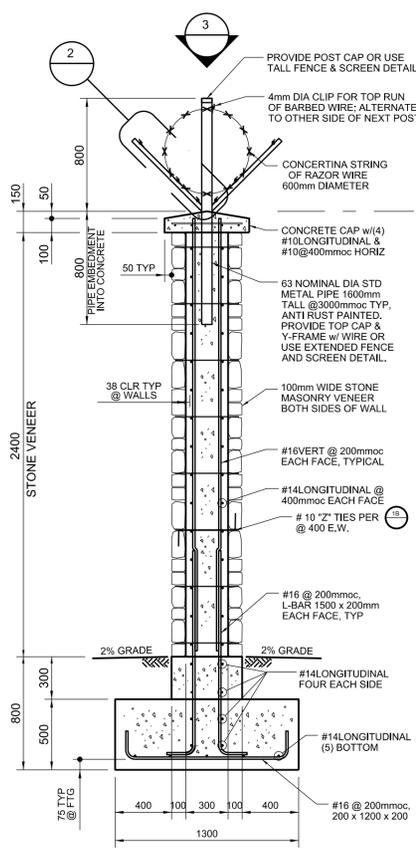
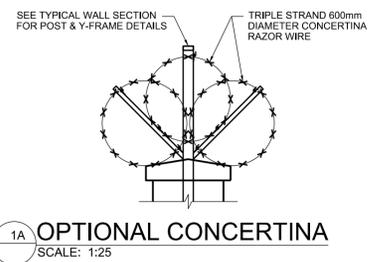
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U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS
APO AE 96338

ENGINEERING AND CONSTRUCTION DIVISION

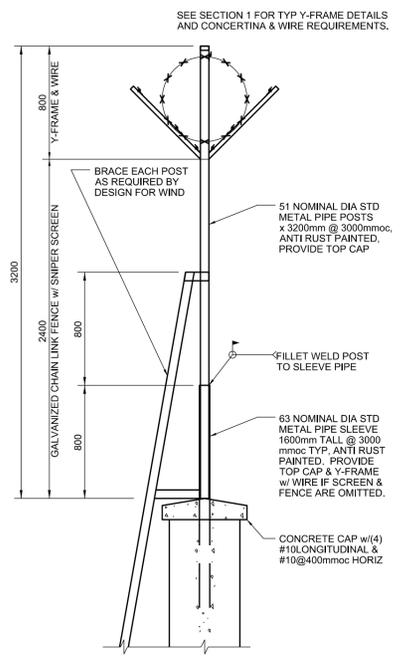
PERIMETER WALL STANDARDS
AFGHANISTAN
2.4 METER - WALLS

SHEET REFERENCE NUMBER:
S-002
SHEET -- OF --

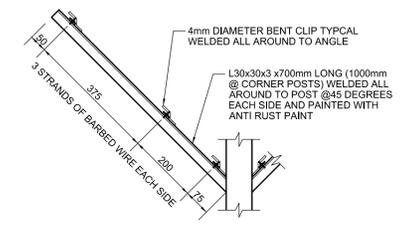


NOTE: IF PROPER GROUTING AND CONSTRUCTION TECHNIQUES ARE USED THE STONE VENEER FACES MAY BE USED TO FORM THE 300 CONCRETE WALL

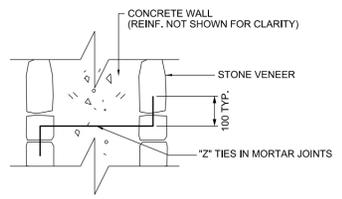
1 STONE VENEER WALL SECTION
SCALE: 1:25



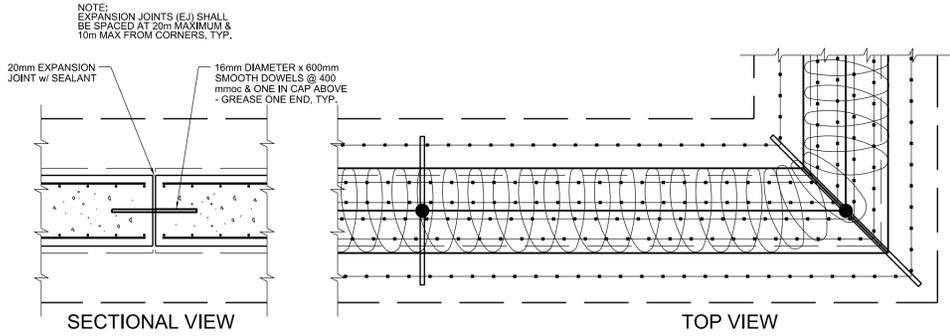
1B OPTIONAL SNIPER SCREEN
SCALE: 1:25



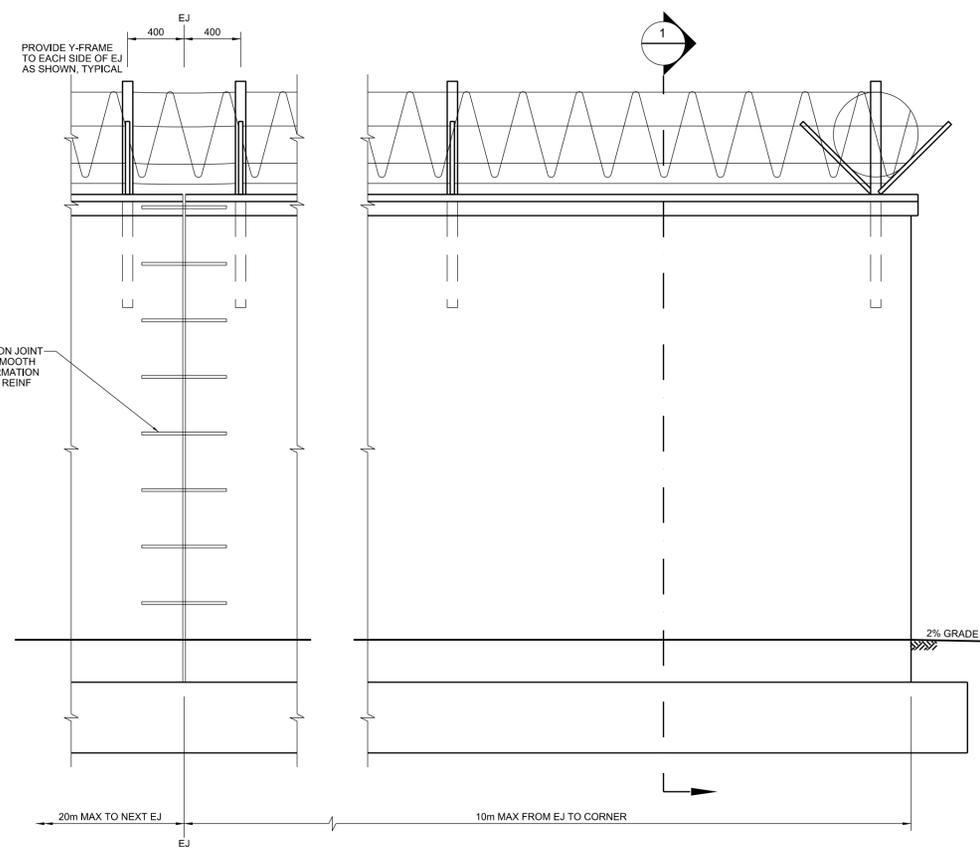
2 Y-FRAME ENLARGED DETAIL
SCALE: 1:10



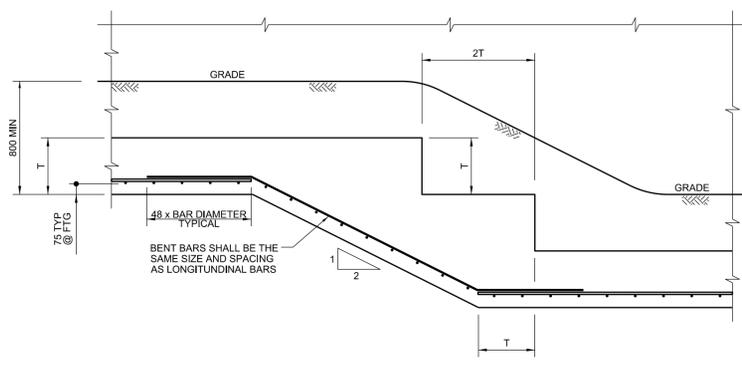
1B PLAN "Z"-TIES
SCALE: N.T.S.



3 EXPANSION JOINT DETAIL AND WALL CORNER PLAN
SCALE: 1:25



4 WALL ELEVATION SHOWING EXPANSION JOINT & CORNER
SCALE: 1:25



5 STEP FOOTING DETAIL AS REQUIRED FOR GRADE CHANGES
NO SCALE



US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

REV.	DATE	DESCRIPTION	SYMBOL	APPR.	DATE

DESIGNED BY: _____	DATE: _____	REV. _____
DWN BY: _____	DESIGN FILE NO. _____	
REVIEWED BY: _____	DRAWING CODE: _____	
SUBMITTED BY: _____	FILE NAME: _____	
	PLOT SCALE: _____	
	PLOT DATE: _____	

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS
APO AE 96338

ENGINEERING AND CONSTRUCTION DIVISION

STANDARD DRAWING
PROJECT LOCATION
BUILDING TYPE
MAIN ECP SLIDING GATE
(PLAN, SECTION & ELEVATION)

SHEET REFERENCE NUMBER:
SG-A-01

