

PHOENIX VI – Task Force Engineers



Statement of Work

Chain Link Fence

1 Chain Link Fence:

1.1 Site Preparation:

The Contractor shall prepare the Site around the construction area. The site will be prepared according to the Task Force Specification PART 2 Site Preparation.

1.2 Posts and Braces:

The posts spacing and configuration shall be per Chain Link Fence Site Plan and Details. When barbed wire and concertina wire are desired on the fence each post shall have equally spaced outriggers. Braces shall be used in each bay adjacent to the corner posts. Braces shall be used on each swing gate door. Braces and posts shall be of 7.5 cm (3 in) diameter pipes. The base metal shall be weldable steel of commercial quality, or better. The steel shall be galvanized or have an equivalent protective coating. The post shall be set in concrete foundation with diameter of 30.5 cm (12 in) and 61 cm (24 in) deep. The minimum embedment length for the posts shall be 50 cm (18 in). The concrete will be placed according to the Task Force Specification PART 3 Concrete.

1.3 Fence Fabric:

The fence fabric shall be 4 mm (9-gage/0.148 in) diameter that is woven into approximately 5 cm (2 in) mesh such that there shall be at least 7 meshes in a vertical dimension of 58.5 cm (23 in) along the diagonal of the openings. The fence fabric shall have knuckled finish on the top and bottom edges. The fence fabric shall be stretched and securely fastened to corner posts with stretcher bars having dimensions of not less than 0.6 cm x 1.9 cm (1/4 in x 3/4 in) and stretcher bar bands having dimensions of not less than 0.3 cm x 1.9 cm (1/8 in x 3/4 in) spaced at 30.5 cm (12 in) intervals. The fence fabric shall also be fastened to intermediate posts with tie wires or post clips and to tension wires with tie wires or hog rings. The fasteners shall be spaced at approximately 35.5 cm (14 in) on intermediate posts and at approximately 50 cm (18 in) on tension wires. Tie wires and hog rings shall be at least 4 mm (9-gage/0.148 in) diameter steel and post clips shall be at least 5 mm (6-gage/0.192 in) diameter steel. Wire ties shall be given at least one complete turn. Hog rings shall be closed with ends overlapping. The tension wires shall be wrapped around end posts. The distance from the top of the fabric to the top tension wire and from the bottom of the fabric to the bottom of the tension wire shall be 75 mm (3 in) maximum. The tension wires shall be at least 0.5 cm (6-gage/0.192 in) diameter coil spring steel. Tension wires shall be stretched tight. The bottom tension wire shall be installed on a straight grade between posts by excavating the high points of ground and in no

case will filling of depressions be permitted. All tension wire, tie wires, hog rings and post clips shall be of good commercial quality and shall be galvanized or be coated with an equivalent protective coating according to Task Force Specification PART 5 Metals.

1.4 Swing Gate:

If a swing gate is desired, it shall be fabricated from 5 cm (2 in) diameter weldable steel and be galvanized or has an equivalent protective coating. Each gate section shall be hung by at least 2 steel hinges not less than 13 cm (5 in) in width, so designed as to securely clamp to the gate post and permit the gate to be swung back against the fence. The bottom hinge shall have a socket to take the ball end of the gate frame. Fence fabric shall be welded to the frame. The swing gate shall have a commercial grade steel lock clasp.

Chain Link Fence

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TITLE PAGE FENCE PLAN

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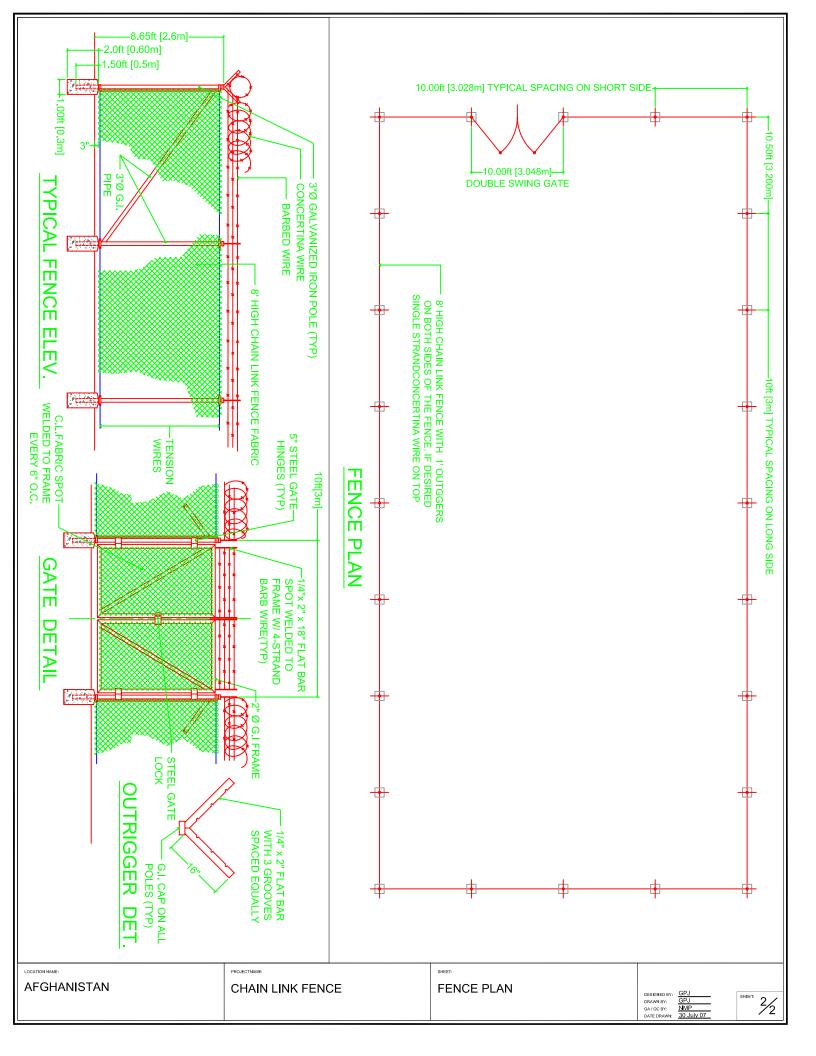
CHAIN LINK FENCE

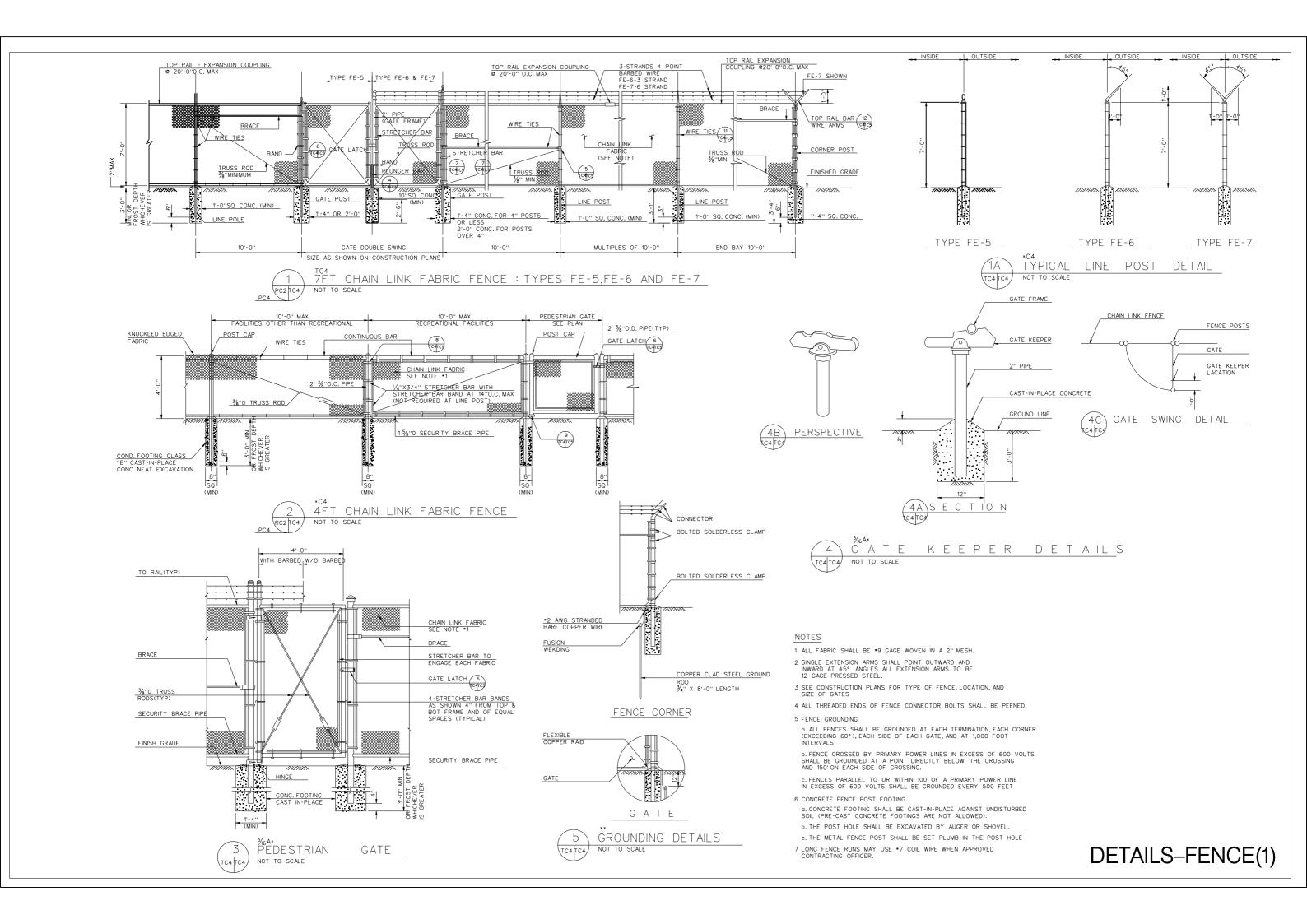
TITLE PAGE

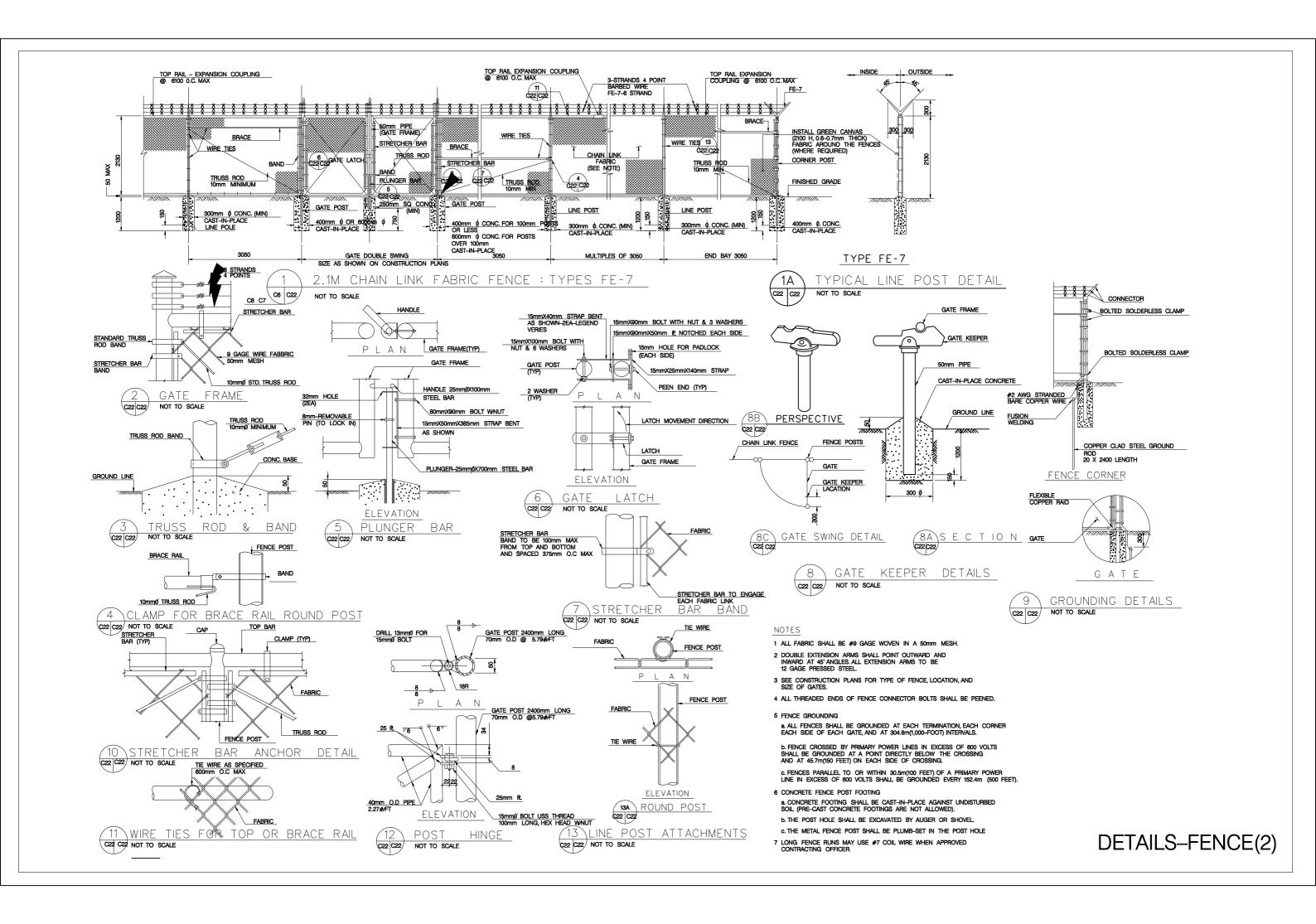
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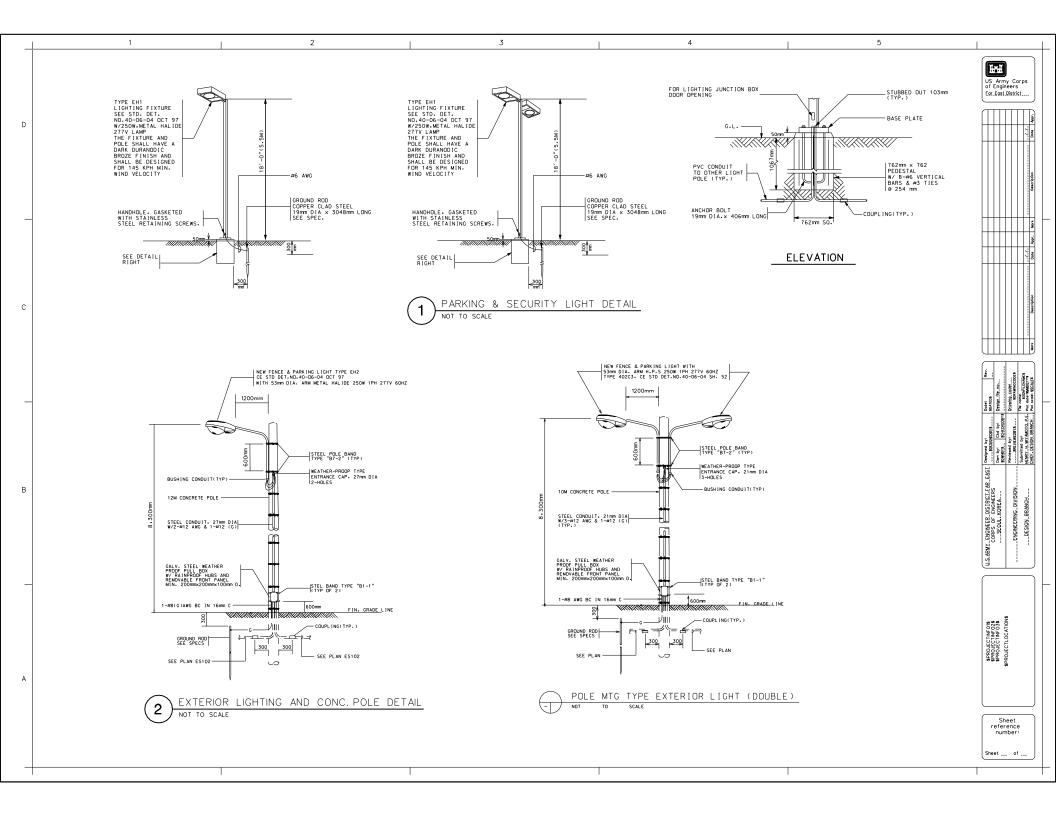
GPJ GPJ NMP 30 July 07

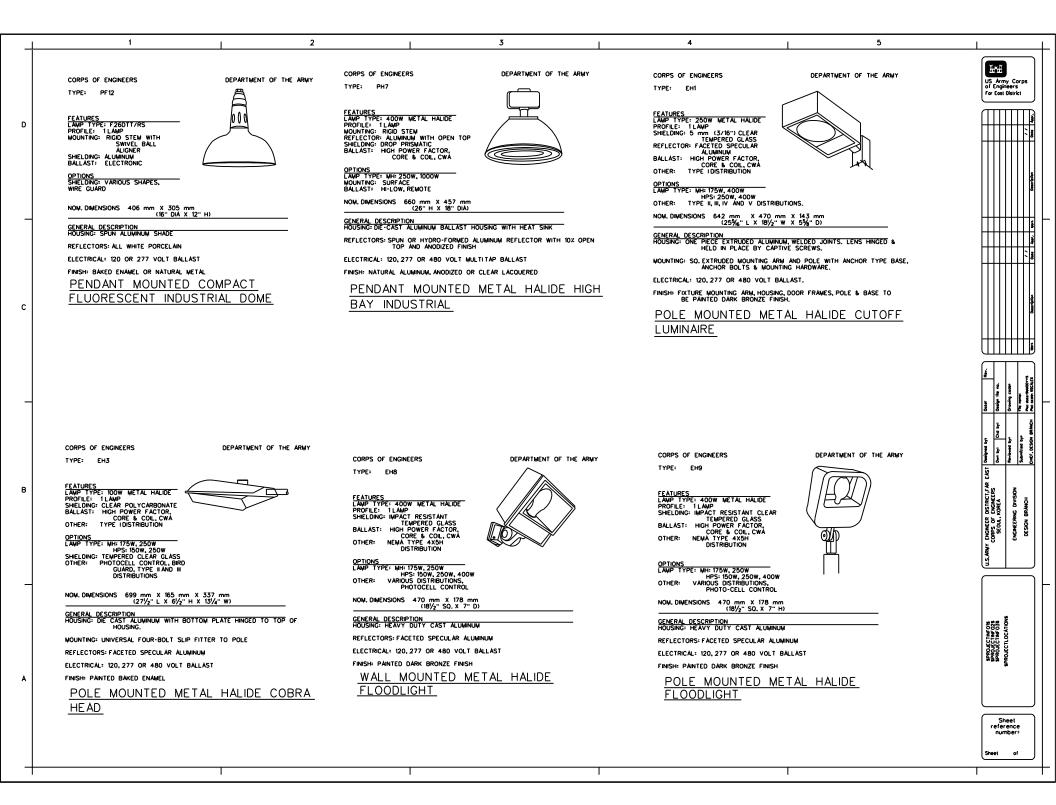








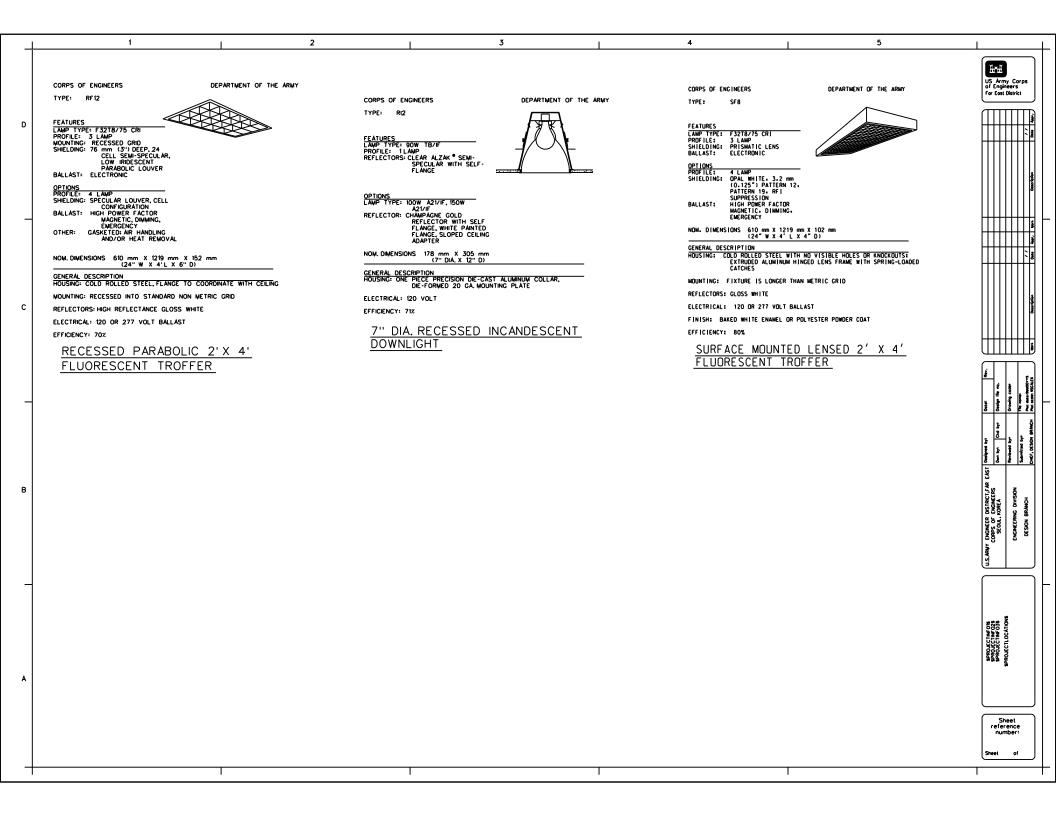


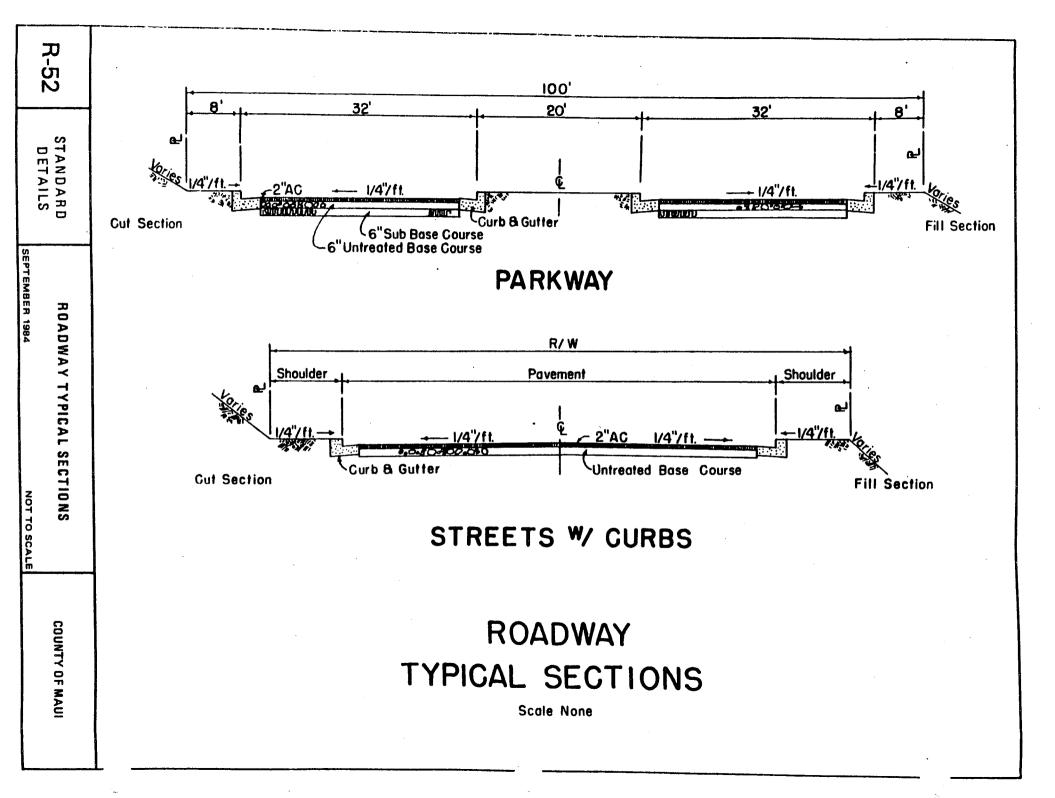


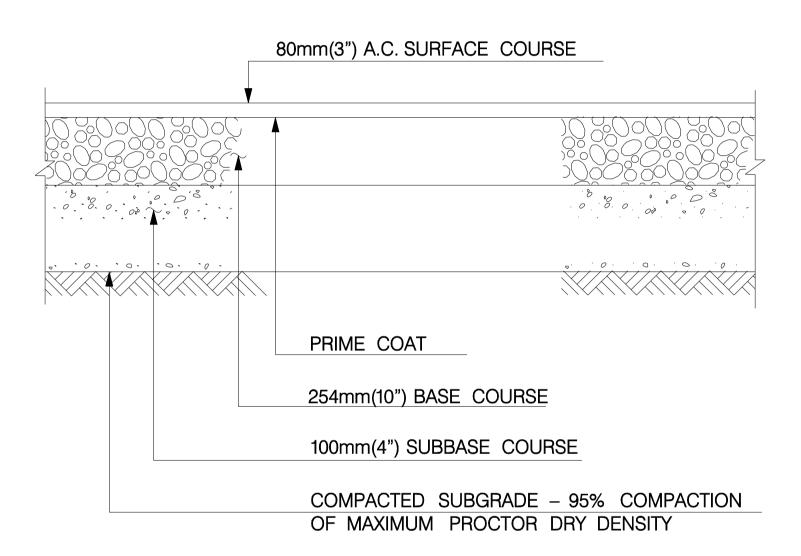
US Army Corps For East District

ENGINEERING C DESIGN BRAN

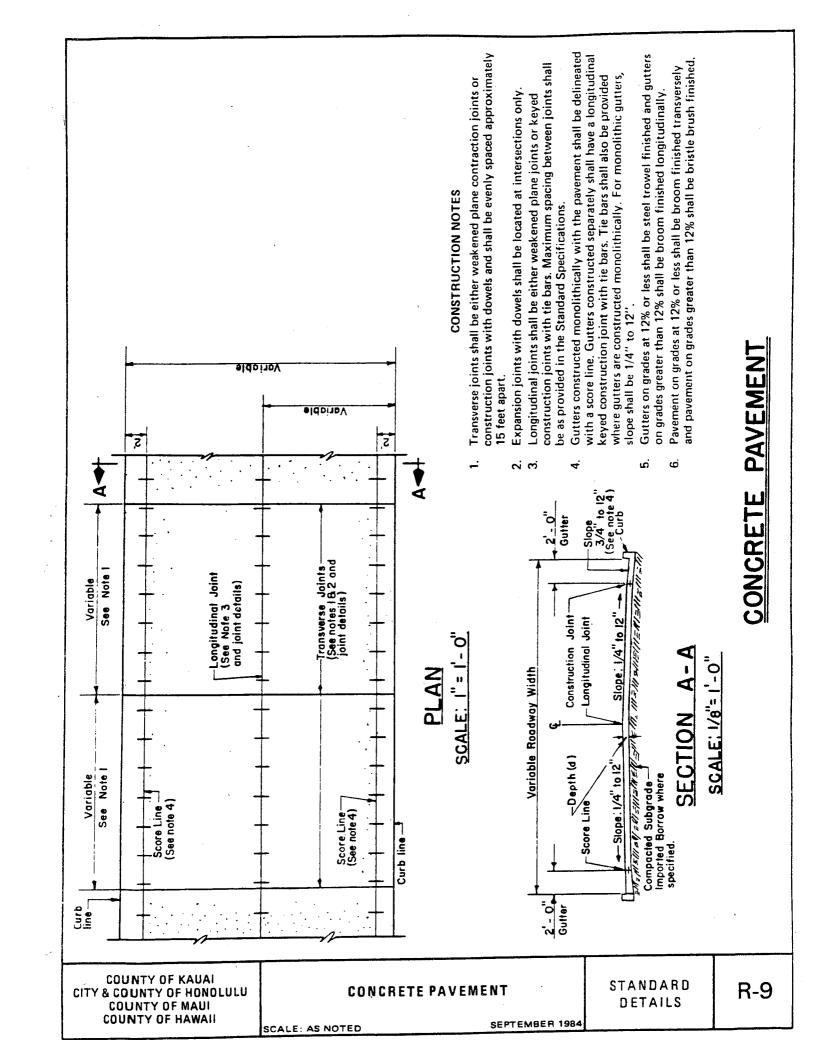
Sheet reference

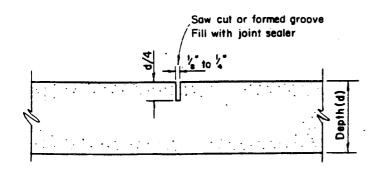




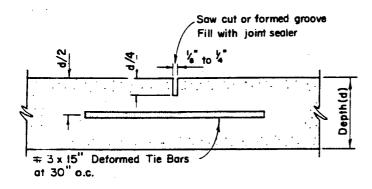








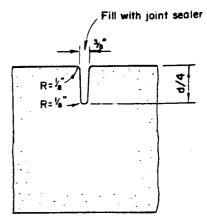
TRANSVERSE CONTRACTION JOINT



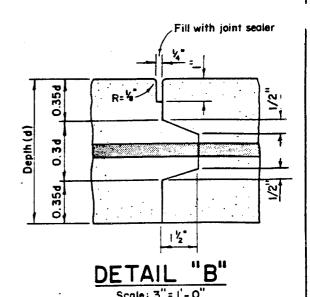
LONGITUDINAL JOINT Scale: 1½ = 1'-0"

CONSTRUCTION NOTES

- Weakened plane joints may be constructed by sawing, forming dummy groove (see Detail $\mbox{\sc A}^{"}$) or inserting ribbon or premolded strip.
- All joints shall be slightly under filled with joint sealer paving 2. asphalt, grade 85-100, AASHTO Designation: M-20
- All dowels shall be paint and greased. Expansion joint dowels shall be equipped with metal caps.
- Expansion joints without dowels shall be constructed at junctions of concrete pavement and rectangular structure.
- Construction joints at unplanned locations shall be keyed joints with tie bars (Detail "B").



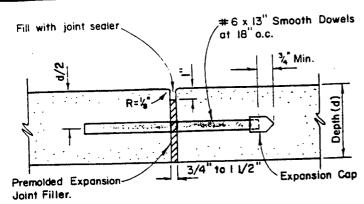
DUMMY



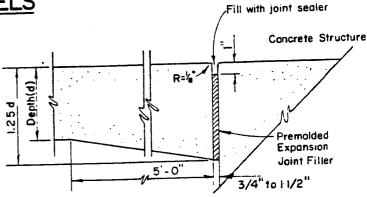
STANDARD R-10 DETAILS

CONCRETE PAVEMENT JOINT DETAILS

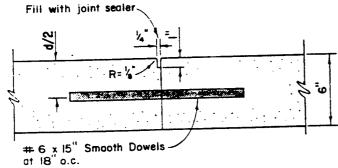
COUNTY OF KAUAI CITY & COUNTY OF HONOLULU **COUNTY OF MAUL COUNTY OF HAWAII**



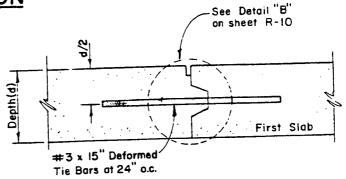
EXPANSION JOINT WITH DOWELS



EXPANSION JOINT



TRANSVERSE CONSTRUCTION

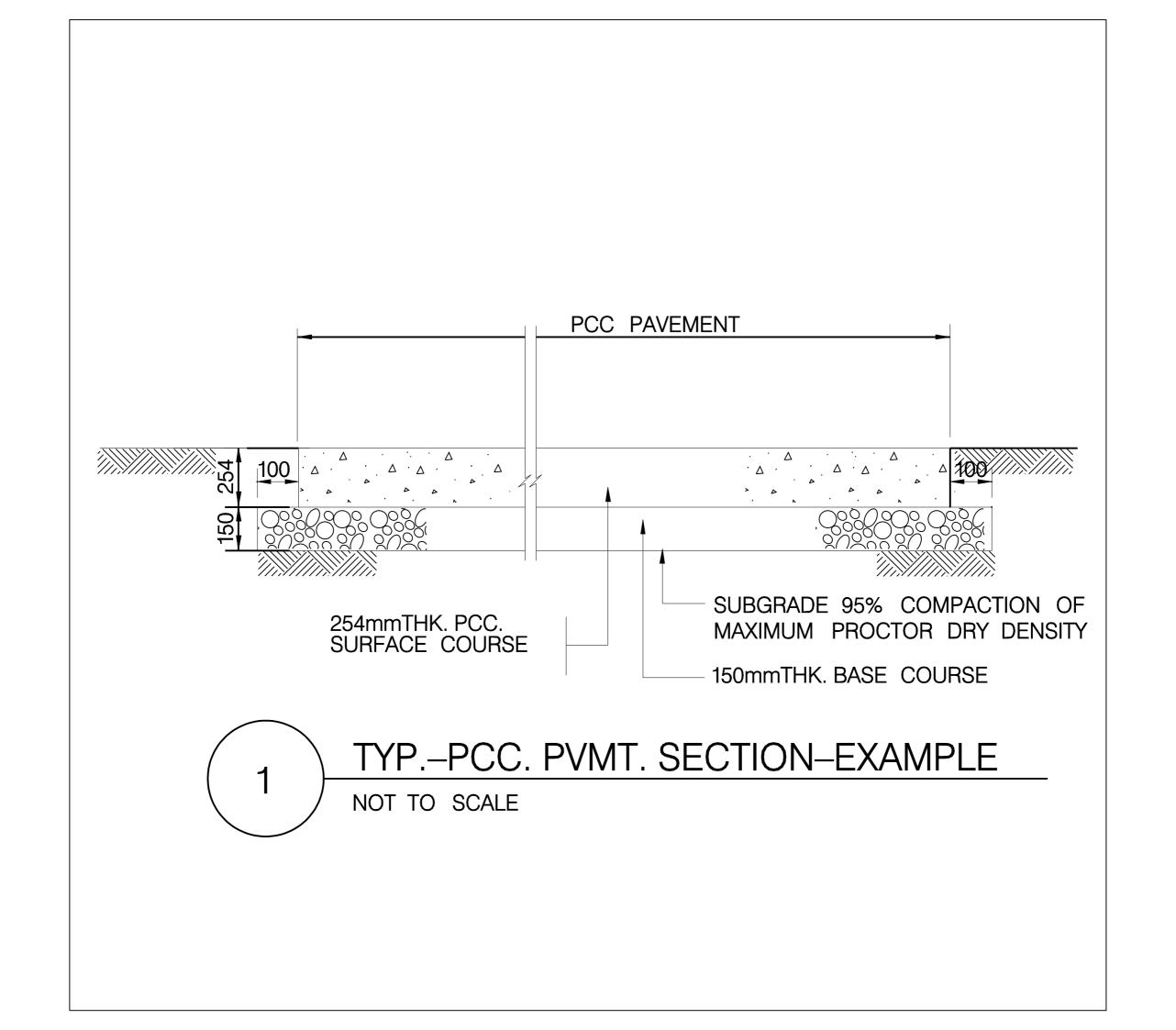


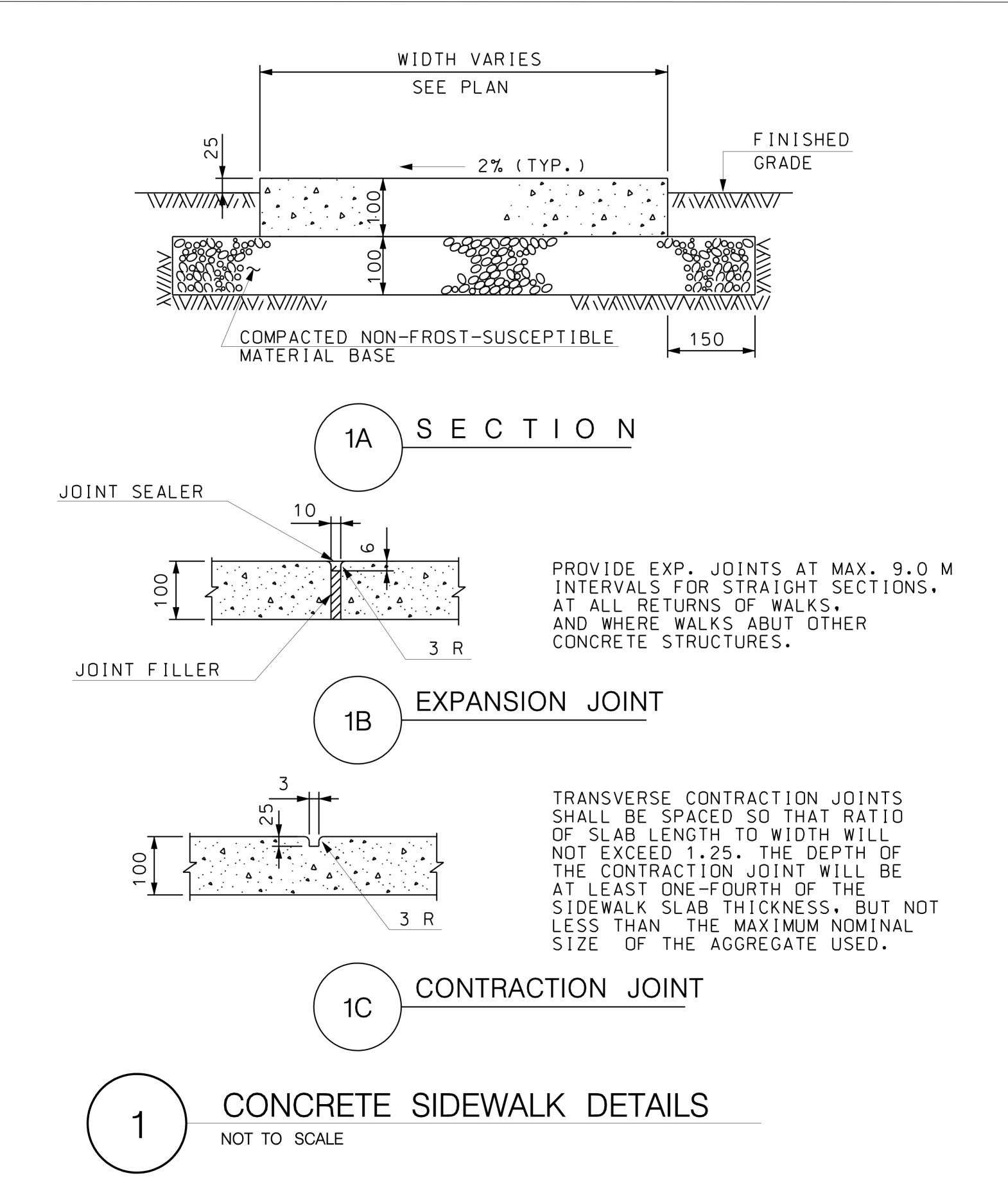
LONGITUDINAL AND TRANSVERSE KEYED CONSTRUCTION JOINT WITH TIE BARS

COUNTY OF KAUAI
CITY & COUNTY OF HONOLULU
COUNTY OF MAUI
COUNTY OF HAWAII

CONCRETE PAVEMENT JOINT DETAILS

STANDARD DETAILS R-11





Full-Height Turnstile (Single) • Interior & Exterior Application

HS439-S • HS448-S

www,TURNSTILES.us distributes the most reliable full-height turnstiles available. The High-Security Series units can be engineered to meet all your security and control requirements, and can be created as stand-alone units, or as part of an integrated system. Available in stainless steel, powder coat or a hot-dipped galvanized finish, these units can be fitted for any application with leading edge technology and features.

Controls and Interfaces

- Biometric Integration
- Card Readers
- Electronic/LCD Counters
- Metal Detection
- Fail-Open or Fail-Secure Locking
- Push-Button and Wireless Remotes
- Manual Key Override both directions
- Indicator Lights



Size Options

(pedestrian clearance):

HS427-S: 27" (686mm)

HS430-S: 30" (782mm)

HS439-S: 39" (991mm)

HS448-S: 48" (1219mm)

304 Stainless,

No. 4 Satin finish (shown)

Also available in hot-dipped galvanized or powder coat finishes.

	Depth	Width	Passage Width	Passage Height	Overall Height
	A*	B*	C*	D*	E*
HS427-S	54"	62"	27"	84"	91 "
	1372mm	1575mm	686mm	2134mm	2311mm
HS430-S	56"	66"	30"	84"	91"
	1422mm	1676mm	762mm	2134mm	2311mm
HS439-S	68"	84"	39"	84"	91 "
	1727mm	2134mm	990mm	2134mm	2311mm
HS448-S	93"	106"	48"	84"	91"
	2362mm	2692mm	1219mm	2134mm	2311mm

^{*} See CAD drawings on reverse side.



HS427-S • HS430-S

HS439-S • HS448-S

Full-Height Turnstile (Single) • Interior & Exterior Application

Applications:

Ideal for controlling orderly flow of foot traffic in both indoor and outdoor settings

Product Features:

Materials and Finishes available in your choice of:

- · Hot dipped galvanized carbon steel
- Polyester enamel on carbon steel (standard color is black/ other colors available upon request)
- Our signature 304 Stainless steel/ No. 4 satin finish

Design & Construction:

- Designed for secure operation with asthetics in mind
- · Featuring fully welded exterior components
- · Minimal exposed hardware
- Heavy gauge materials meeting ASTM standards

Controller & Access Control Operation:

- Self-centering control head with adjustable hydraulic shock suppression
- Hardened tool steel locking bars, cam and roller assemblies
- Permanently lubricated bearings
- All units are available in clockwise, counter-clockwise or bi-directional passage

Measures:

HS427-S

Size of opening (pedestrian clearance) HS427-S 27" (686mm)

Arm and Barrier Tubing Sizes

1 1/2" diameter 14 gauge (38mm) - Standard 1 3/4" diameter 14 gauge (44mm) - Optional

Width Depth 62" (1575mm) 54" (1372mm)

HS430-S

Size of opening (pedestrian clearance) HS430-S 30" (762mm)

Arm and Barrier Tubing Sizes

1 1/2" diameter 14 gauge (38mm) - Standard 1 3/4" diameter 14 gauge (44mm) - Optional

Width Depth 66" (1676mm) 56" (1422mm)

Measures: (continued)

HS439-S

Size of opening (pedestrian clearance) HS439-S 39" (991mm)

Arm and Barrier Tubing Sizes 1 3/4" diameter 14 gauge (44mm)

 Width
 Depth

 84" (2134mm)
 68" (1727mm)

HS448-S

Size of opening (pedestrian clearance) HS448-S 48" (1219mm)

Arm and Barrier Tubing Sizes

1 3/4" diameter 14 gauge (44mm)

Width Depth 106" (2692mm) 93" (2362mm)

All models:

- Overall exterior height 91" (2311mm)
- Pedestrian walk through height 84" (2134mm)

Options:

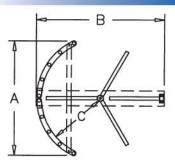
- Electronic locking module featuring heavy-duty 24 vdc pull-type industrial solenoids and card reader interface
- Available in Fail-Safe (open on power failure) or Fail-Lock (lock on power failure modes)
- Can interface with card readers, computer attendance systems, coin and token acceptors, push buttons, wireless remote controls and metal detectors
- Electronic 6 digit resetable counter with LCD display and ten-year lithium battery
- Vertical Graphic Array (VGA) red x / green arrow
- Additional options available on request

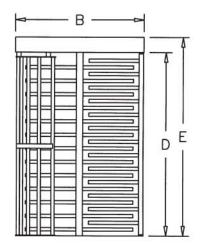
Matching Swing Gate available

(see model HS336 Manual Passage Gate information)



8641 South Warhawk Road Conifer, CO 80433 (303) 670-1099 x11 Patrick.McAllister@Turnstiles.us





Electrical Specifications:

Command module input 110-240 VAC (2 amp-1 amp) 50-60 Hz; control voltage 24 VDC. All electrical components are UL recognized and CSA certified.

Standards and Codes:

Austenitic stainless steel: ASTM A240, A249, A276

Hot rolled steel:

AISI C-1020, AISI C-1018 Hot dipped galvanizing: ASTM A-143, ASTM A-153-80

Stainless steel fasteners: ASTM A-320

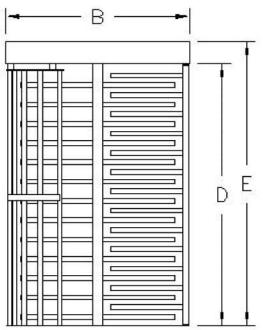
American Welding Society (AWS) Standard D 1.1

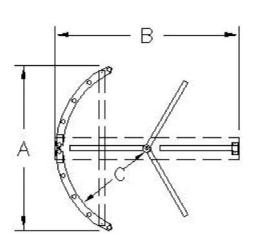
Warranty:

Units are warranted against defects in materials and workmanship for a period of one year from date of delivery. See warranty information for specific details.

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TYPE S-SINGLE

Size Options (pedestrian clearance):

	Depth (A)*	Width (B)*	Passage Width (C)*	Passage Height (D)*	Overall Height (E)*
HS427-S	54"	62"	27"	84"	91"
	1327mm	1575mm	686mm	2134mm	2311mm
HS430-S	56"	66"	30"	84"	91"
	1422mm	1676mm	762mm	2134mm	2311mm
HS439-S	68"	84"	39"	84"	91"
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