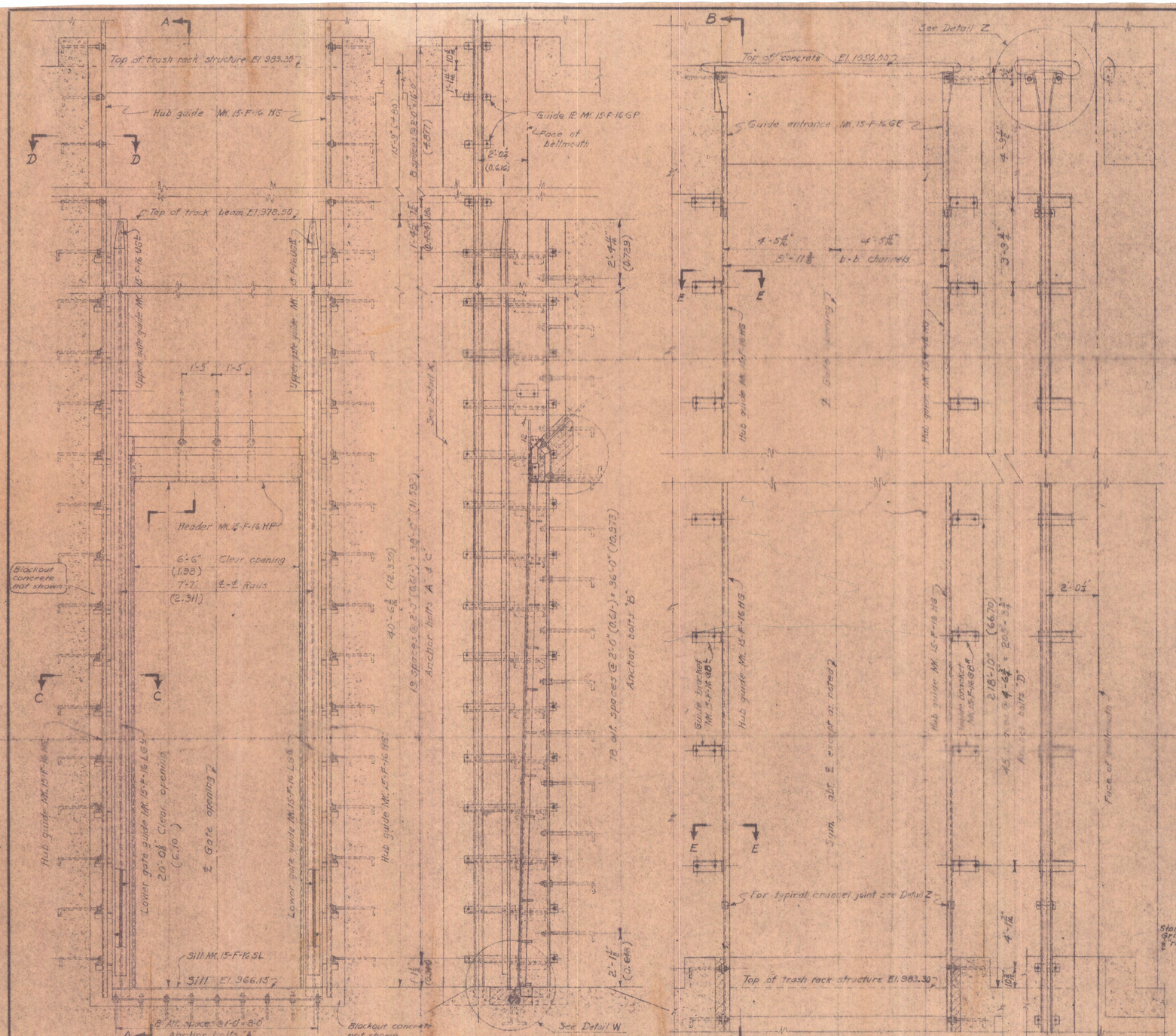
Top of trash rack structure El. 983.30
Hub guide Mk. 15-F-16 HS
Top of track beam El. 978.50
Upper gate guide Mk. 15-F-16 UG1
Upper gate guide Mk. 15-F-16 UG2
Header Mk. 15-F-16 HP
6'-6" Clear opening (1.98)
7'-7" ℄-℄ Rails (2.311)
Blockout concrete not shown
Lower gate guide Mk. 15-F-16 LG1
20'-08" Clear opening (6.10)
℄ Gate opening
Lower gate guide Mk. 15-F-16 LG2
Hub guide Mk. 15-F-16 HG
Sill Mk. 15-F-16 SL
Sill El. 966.15
8 Alt. Space @ 1'-0" = 8'-0"
Anchor bolts 'A'
UPSTREAM ELEVATION
Guide ℄ Mk. 15-F-16 GP
Face of bellmouth
19 spaces @ 2'-0" (0.61) = 38'-0" (11.582)
40'-6 3/4" (12.350)
Anchor bolts 'A' & 'C'
See Detail X
See Detail W
SECTION A-A
Top of concrete El. 1050.00
See Detail Z
Guide entrance Mk. 15-F-16 GE
4'-5 1/2"
5'-11 3/8"
b-b channels
Hub guide Mk. 15-F-16 HG
Hub girder Mk. 15-F-16 HG
Guide bracket Mk. 15-F-16 GB1
Guide bracket Mk. 15-F-16 GB2
19 alt. spaces @ 2'-0" (0.61) = 36'-0" (10.973)
Anchor bolts 'B'
Sym. abt. ℄ except as noted
For typical channel joint see Detail Z
Top of trash rack structure El. 983.30
Face of trash
UPSTREAM ELEVATION
SECTION B-B
Face of bellmouth
Anchor bolts 'A'
Flow
℄ Hub guide
7'-7" ℄-℄ Rails
Outline of blockout concrete, El. 972.75 ± to El. 978.50
Anchor bolts 'B'
Anchor bolt 'C'
20 I 95
3/8 Stiff
L 6x4x1/2
3x1/2 Seal bar (Stainless)
2x5 bar
Seal
6'-6" Clear opening (1.98)
SECTION C-C
Top of concrete El. 1050.0
Anchor bolts 'D'
℄ Hub guide
SECTION E-E
ELEV. F-F
DETAIL Z
Length - See table
Thread
ANCHOR BOLT LIST (Furnish in field)
Mark | No. Req'd | Length | Hex. nuts | Washer | Bevel washer | Location
A | 128 | 1'-6" | 2 ea. | 2 ea. | — | Hub guide, sill and header plate
B | 36 | 1'-0" | 2 ea. | 1 ea. | 1 ea. | Track beam
C | 49 | 2'-7" | 2 ea. | 2 ea. | — | Track beam and header plate
D | 192 | 1'-2" | 1 ea. | 1 ea. | — | Hub guide at tower
NOTES
Elevations and dimensions in ( ) are in meters.
Indicates blockout concrete
REFERENCE DRAWINGS
15-F-16 Irrigation Tunnel - Wheel Gate Guides - Details
15-F-11 " " - Wheel Gate Assembly
13-F-27 " " - Tower Structure - Outline
Anchor bolt 'C'
℄ Top Seal
Flow
Stainless
℄ Hub guide
DETAIL X
Face of bellmouth
Face of trash
Anchor bolt 'A'
20-08 Opening
Anchor bolt 'B'
Stainless grind to 1/4" radius
El. 966.15
Anchor bolts 'A'
DETAIL W
Scale ℄ 1/2" = 1 Foot
MORRISON-KNUDSEN AFGHANISTAN, INC.
KAJAKAI DAM
IRRIGATION TUNNEL
WHEEL GATE GUIDES
ASSEMBLY & ANCHOR BOLTS
INTERNATIONAL ENGINEERING CO., INC.
DESIGN R.K.C.
DRAWN R.K.C.
CHK'D D.W.C.
INSP. Ardone
SUBMITTED
RECOMMENDED
APPROVED
2 Removed curb Ls @ gate slot 8-31-51 R.P.M. D.W.C. D.E.H.
1 Add blockout concrete 12-19-51 M.F.V.K. K.V.A. R.E.H.
REVNS DATE MADE CHECKED APPROVED
15-F-15 R2
DENVER, COLO
DATE JAN. 12, 1951