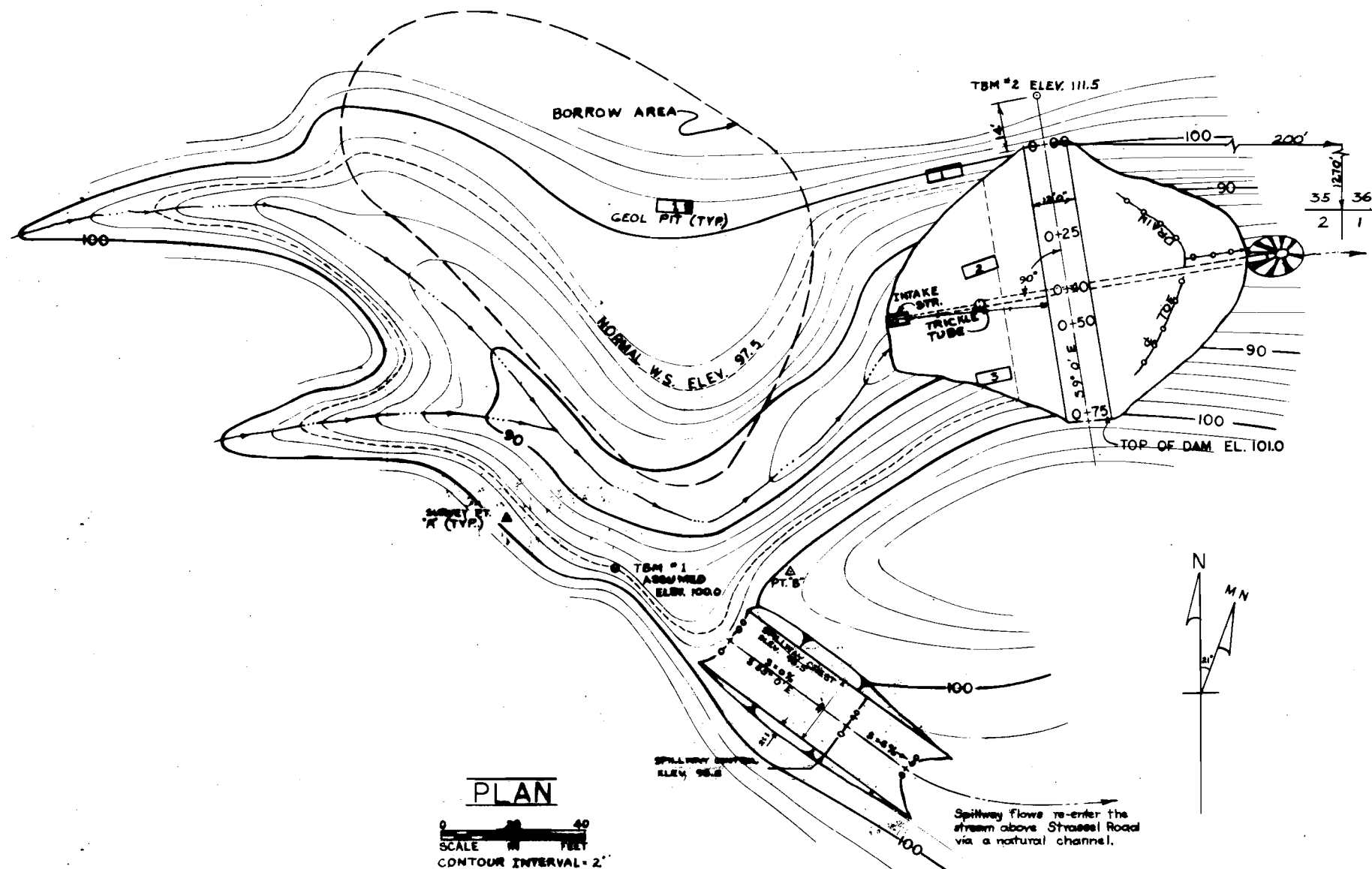


Application R-20646
Permit No.

APPROVED. 11/26, 1973

STATE 4-22-55

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PLAN & LOCATION MAP HAROLD PIEREN DAM

WASHINGTON CO. S. W. C. D.
HILLSBORO, OREGON

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Date _____
 Designed R. J. PRANGER 2-73
 Drawn G. B. R. L. P. 2-73
 Traced _____
 Checked _____
 Approved by [Signature]
 Title _____

 Title _____

 Sheet _____ Drawing No. _____
 No. 1
 of 5
7-E-22941-N



BAR TYPES

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STATE DEPARTMENT

APPROVED. May 26, 1923

Charles H. Moore
STATE ENGINEER



INLET STRUCTURE 7-E-20465 SIZE A
E & WP UNIT PORTLAND, OREGON

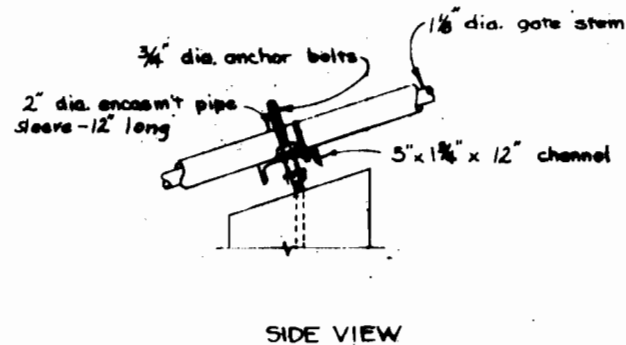
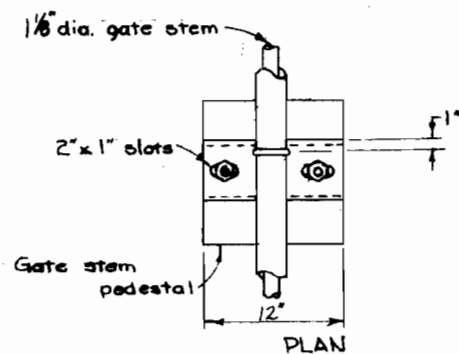
DETAILS
HAROLD PIEREN DAM
WASHINGTON CO. S.W. C. D.
HILLSBORO, OREGON

**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE**

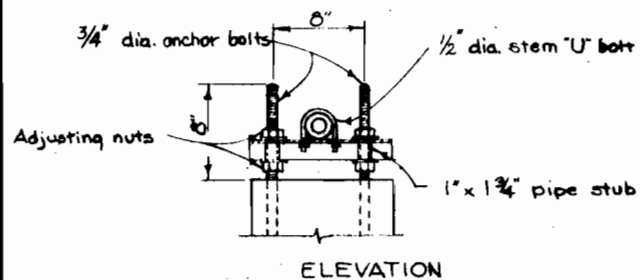
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Designed <u>R. J. PRANGER</u>	<u>5-73</u>	<u>[Signature]</u>
Title		
Drawn <u>R. J. PRANGER</u>	<u>5-73</u>	<u>Highway 7 Extension</u>
Title		
		<u>North State Comm Expt</u>
Traced		Sheet
Checked		No. <u>5</u>
		<u>7-E-22941-N</u>

Gate stem.....	<u>4</u>
Air vent.....	<u>-</u>
Trash rack.....	<u>4</u>

Application No. R-20646
Permit No.

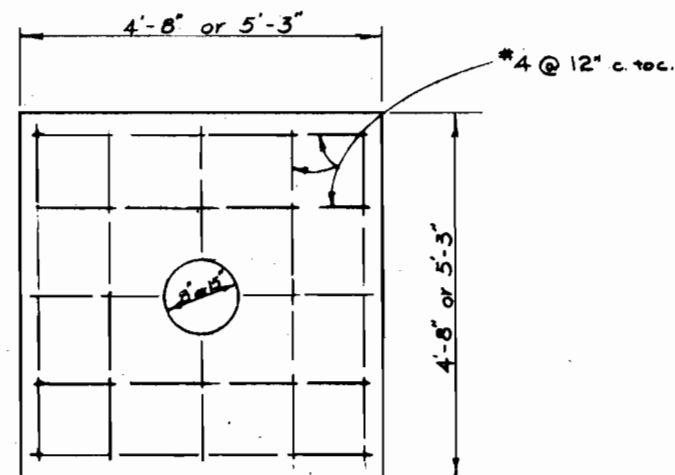


SIDE VIEW



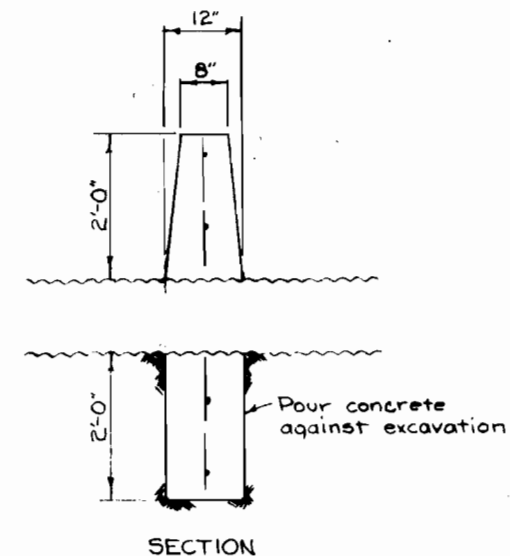
ELEVATION

GATE STEM GUIDE
Not to scale



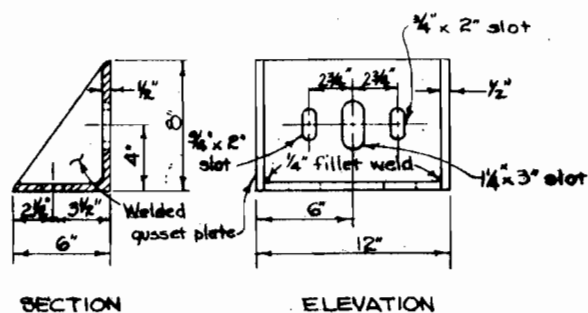
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ANTI-SEEP COLLARS
Not to scale



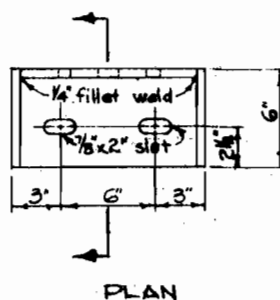
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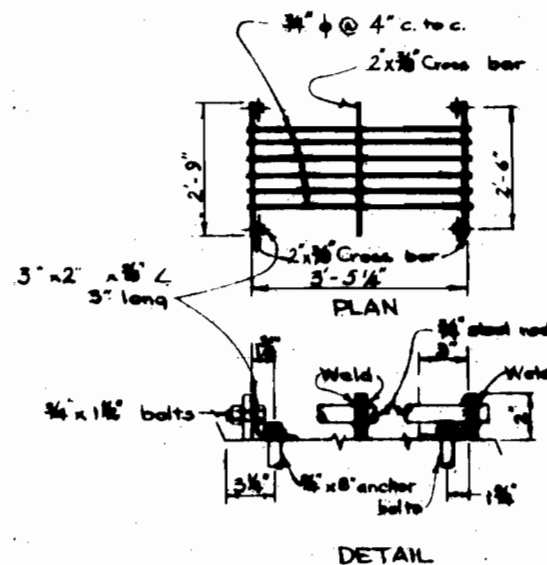
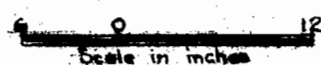
SECTION

ELEVATION



PLAN

HANDWHEEL BRACKET



DETAIL

TRASH RACK

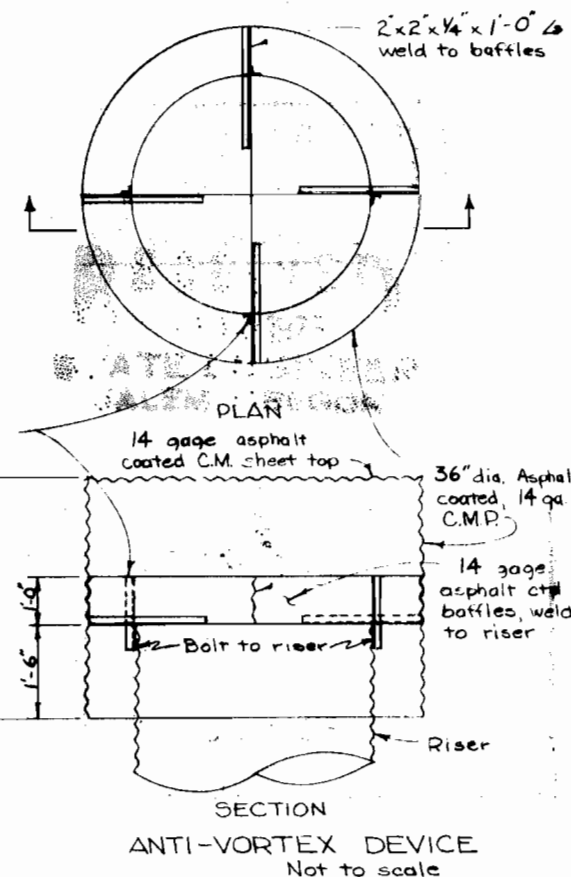
Not to scale

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STATE ENGINEER

Application No. *R-50646*
Permit No. *A*



SECTION
ANTI-VORTEX DEVICE
Not to scale

DETAILS
HAROLD PIEREN DAM

WASHINGTON CO. S. W. C. D.
HILLSBORO, OREGON

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

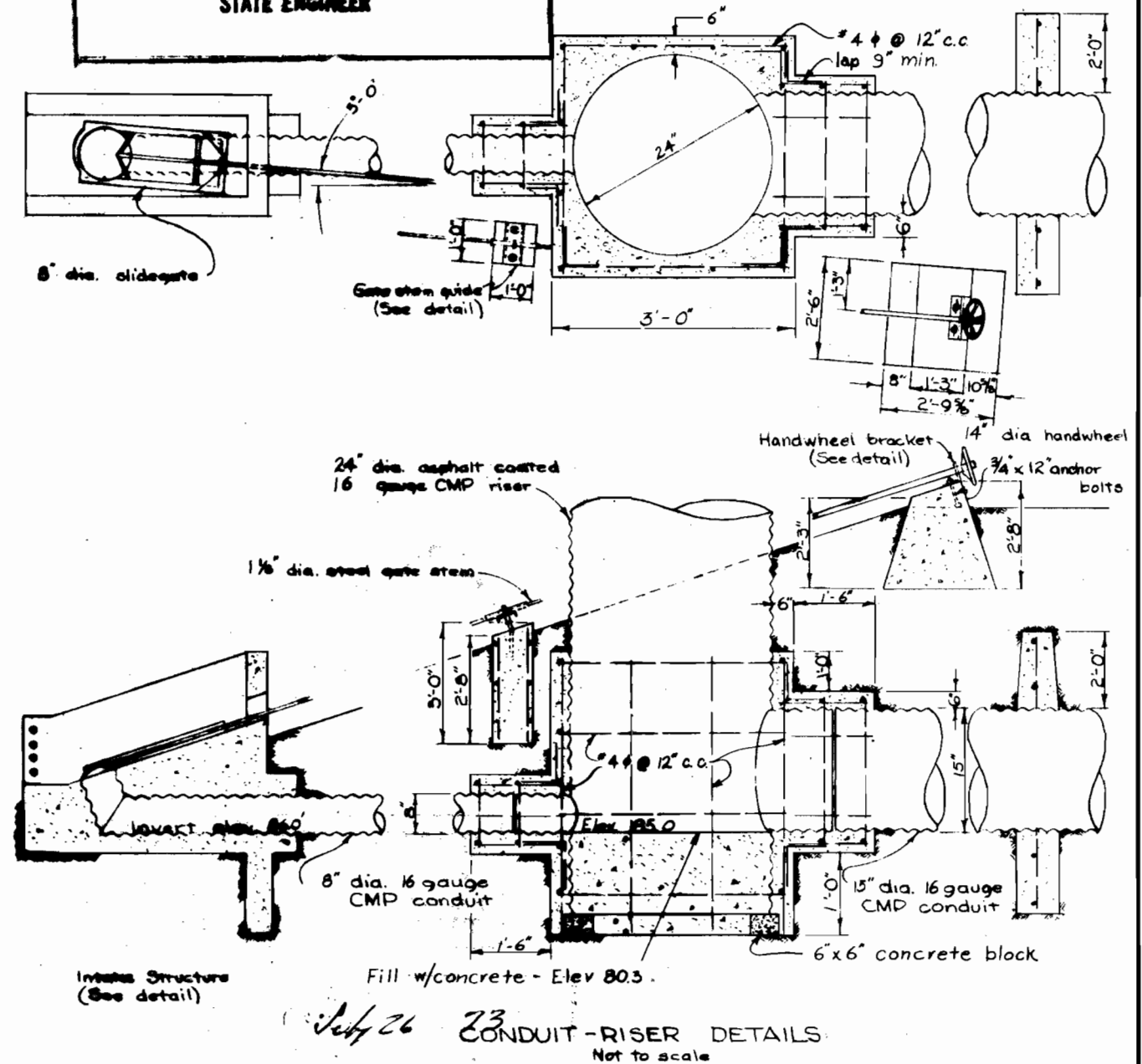
Designed <i>R. J. PRANGER</i>	Date <i>3-73</i>	Approved by <i>Harold Pieren</i>	Date <i>3-73</i>
Drawn <i>R. J. PRANGER</i>	Date <i>3-73</i>	Checked by <i>Harold Pieren</i>	Date <i>3-73</i>
Traced		Sheet No. <i>4</i>	Drawing No. <i>7-E-22941-N</i>
Checked		of <i>5</i>	

APPROVED. *11/26, 1923*

Chas. Steele

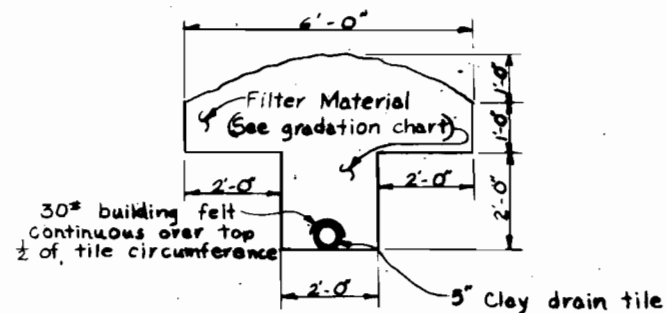
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Sieve Size	% Passing
3/4"	100
#4	90-100
#10	80-95
#40	45-80
#100	15-60
#200	0-5

GRADATION CHART



TOE DRAIN DETAIL
Scale: 1/2" = 1'-0"

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Application
Permit N

R-50646

DETAILS HAROLD PIENEN DAM WASHINGTON CO. S. W. C. D. HILLSBORO, OREGON	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designed <i>R. J. PRANGER</i>	Date <i>3-73</i>
Drawn <i>R. J. PRANGER</i>	Date <i>3-73</i>
Traced	Sheet No. <i>3</i>
Checked	of <i>5</i>
Approved by <i>[Signature]</i>	Date <i>4/13</i>
Title <i>Asst. Engr.</i>	
Title <i>Asst. Engr.</i>	
7-E-22941-N	

