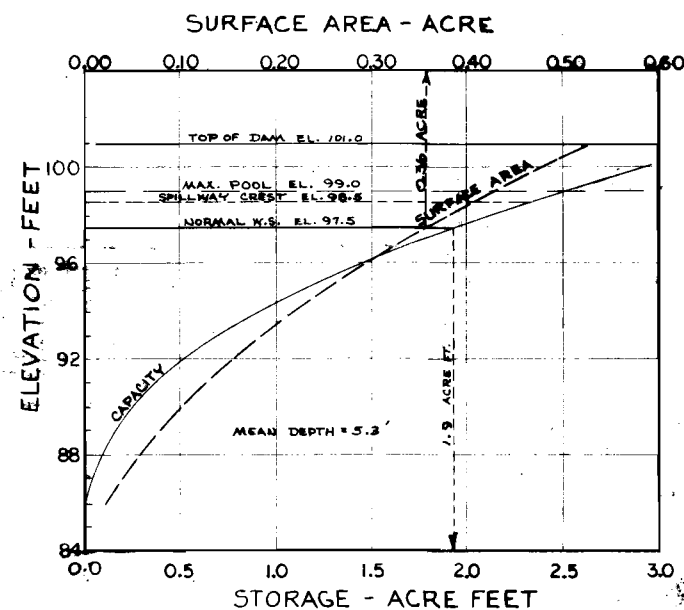
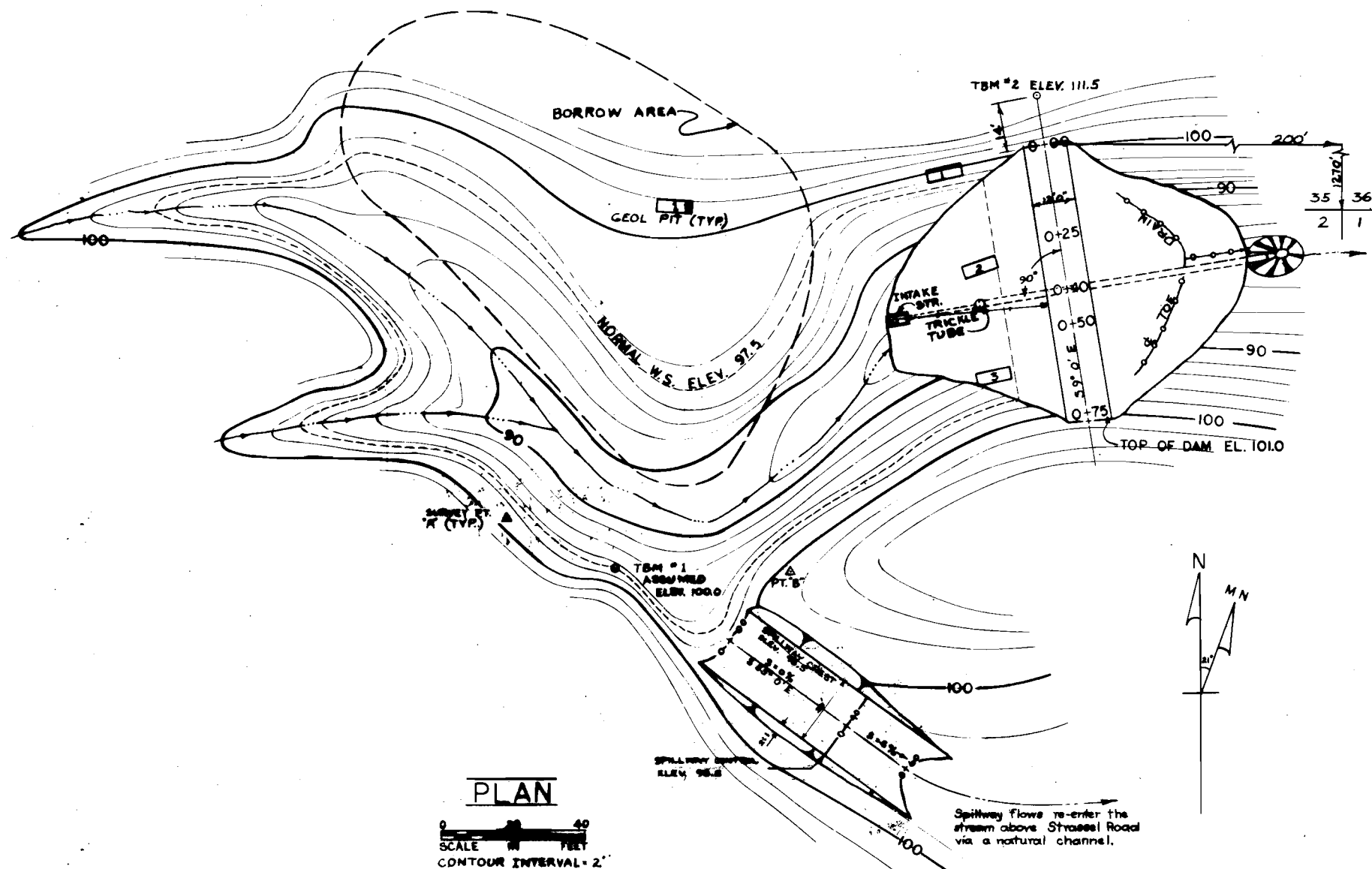
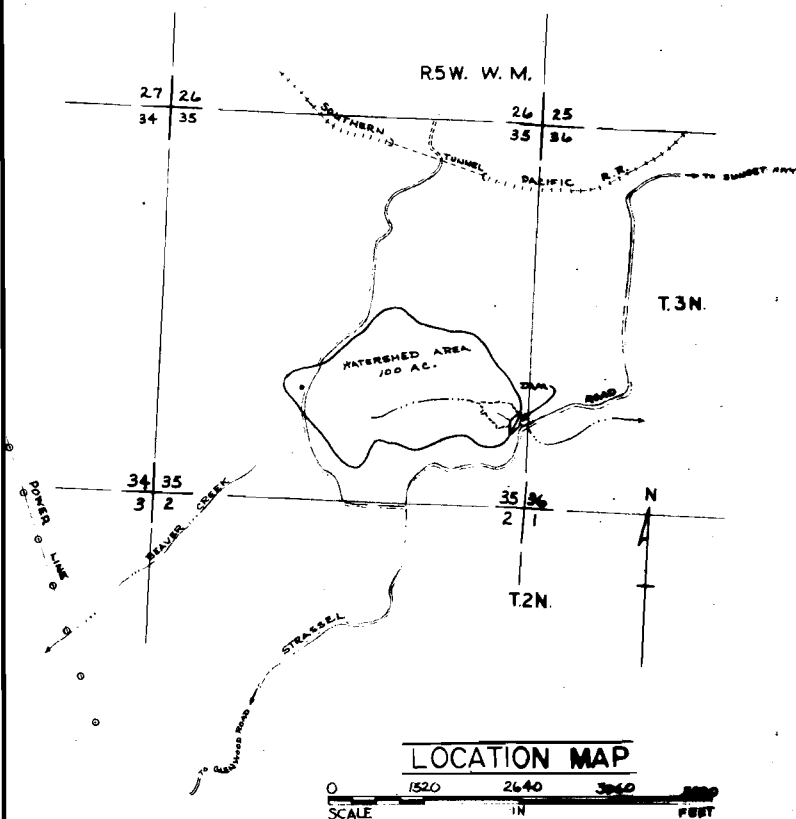




QUANTITIES

EXCAVATION VOLUME	
STRIP BORROW & SPILLWAY	600 C.Y.
STRIP FOUNDATION	470 C.Y.
SPILLWAY & CORE TRENCH	200 C.Y.
COMPACTED VOLUME	
CORE TRENCH & FOUNDATION	640 C.Y.
EMBANKMENT	1500 C.Y.
SPILLWAY DESIGN DISCHARGE	
$Q_{25 \text{ YEAR}} = 22 \text{ C.F.S.}$	

CONCRETE VOLUME	
RISER BASE & COLLARS	5.25 C.Y.
INTAKE STRUCTURE	1.3 C.Y.
PEDESTALS	0.8 C.Y.
OUTLET CONDUIT & RISER	
8 in. DIA. CONDUIT	20 LF.
15 in. DIA. CONDUIT	80 LF.
24 in. DIA. RISER	13.5 LF.

APPROVED. *May 26, 1973*

Chris K. White
STATE ENGINEER

RECEIVED
JUN 1973
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SALEM, OREGON

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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 *2-73*
Designed *R. J. PRANGER*
Drawn *G. B. R. J. P.*
Traced
Checked
Approved by *[Signature]*
Title *Harold Pieren Dam*
Sheet *1*
No. *1*
of *5*
7-E-22941-N

Application *R-50646*
Permit No.



BAR TYPES

STATE ENGINEER
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APPROVED. May 26, 1923

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**

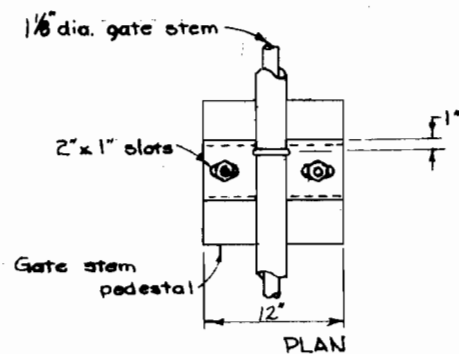
Date		Approved by <i>[Signature]</i>	
Designed <i>R. J. PRANGER</i>	<i>3-73</i>	Title	<i>DEEN ENGINEER</i>
Drawn <i>R. J. PRANGER</i>	<i>3-73</i>	Title	<i>Highway Engineer</i>
Traced		Sheet	<i>One Sheet One Drawing</i>
Checked		No. <i>5</i>	7-E-22941-N

SCS-ENG-313-B Rev. 7-69

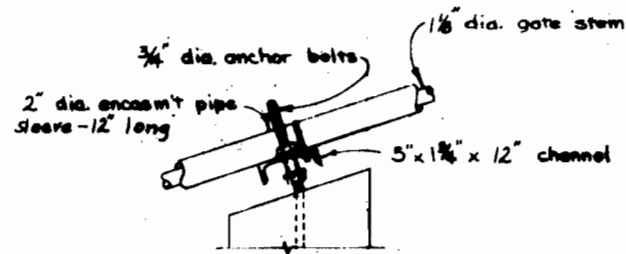
ITEM SHEET NO.

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

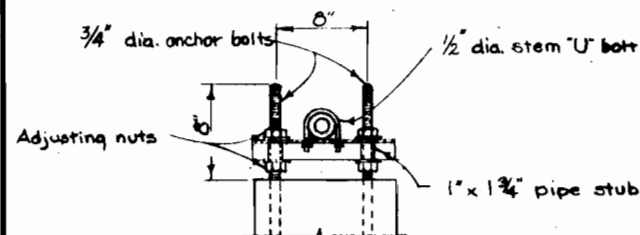
Application No. R-20646
Permit No.



PLAN

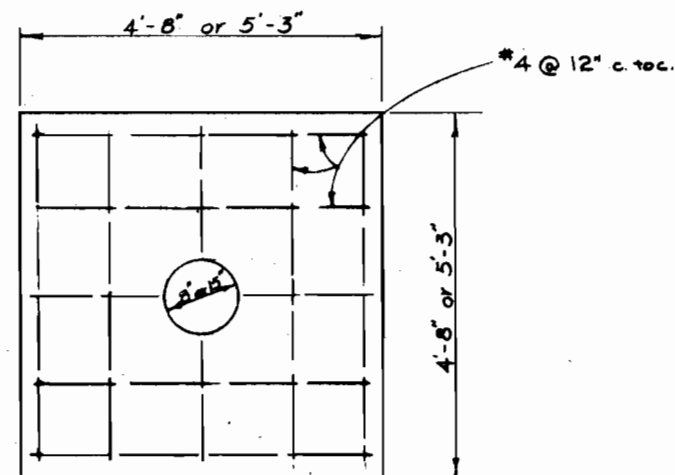


SIDE VIEW



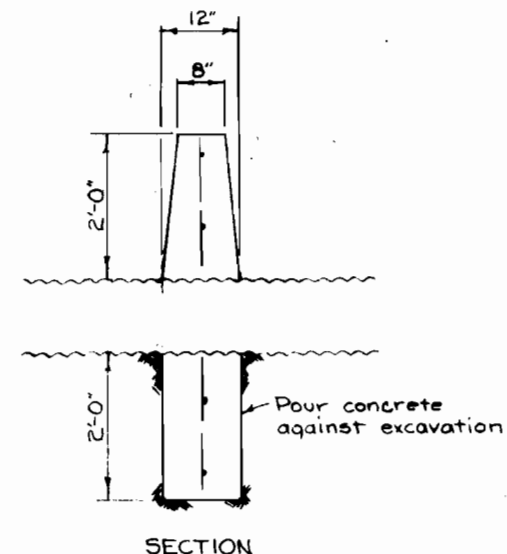
ELEVATION

GATE STEM GUIDE
Not to scale



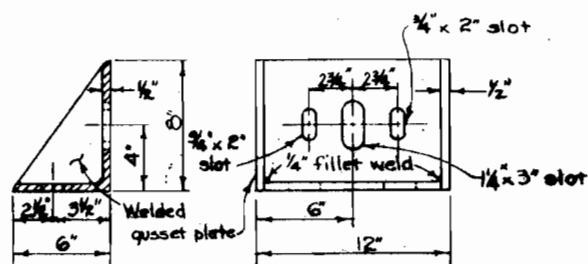
ELEVATION

ANTI-SEEP COLLARS
Not to scale



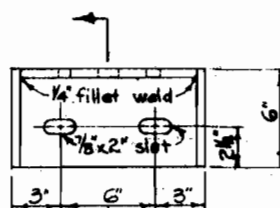
SECTION

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SALEM OREGON



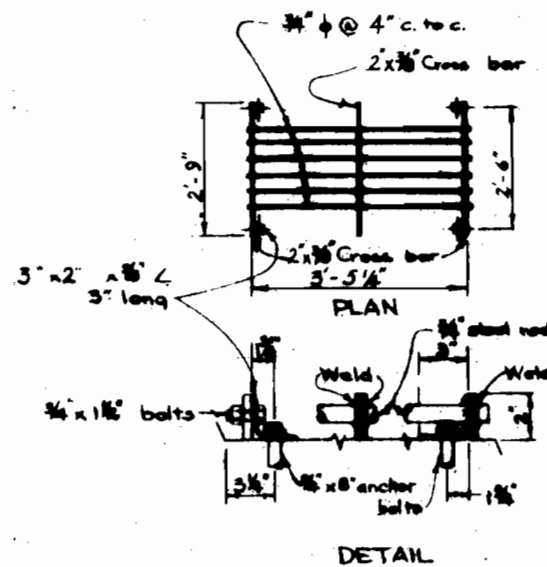
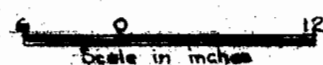
SECTION

ELEVATION



PLAN

HANDWHEEL BRACKET



DETAIL

TRASH RACK

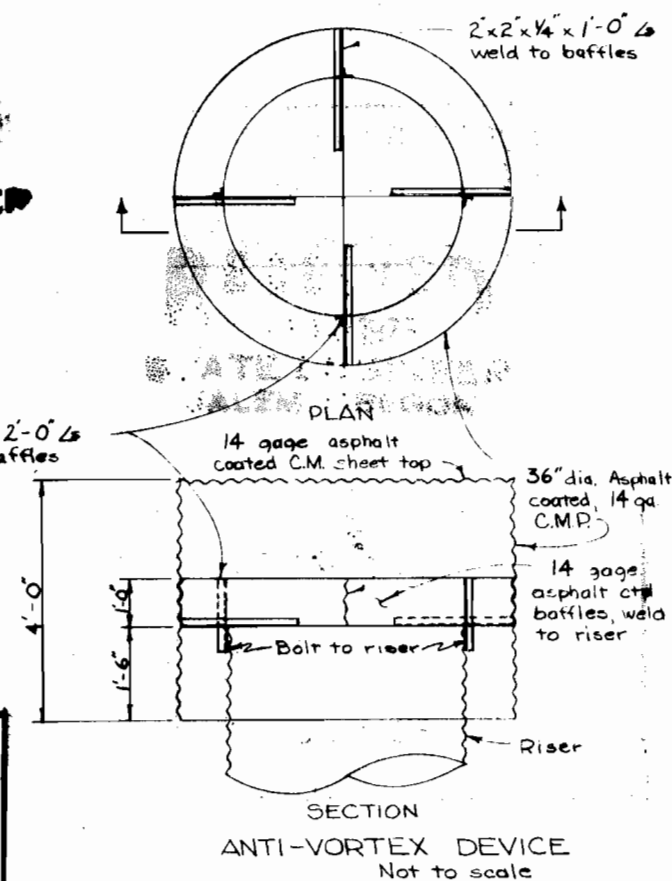
Not to scale

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APPROVED. *id 26, 1973*

STATE ENGINEER

2"x2"x1/4"x2'-0" Ls
Weld to baffles



DETAILS
HAROLD PIEREN DAM

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

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed R. J. PRANGER	3-73	Approved by <i>id 26, 1973</i>	Date
Drawn R. J. PRANGER	3-73	Checked by <i>id 26, 1973</i>	Date
Traced		Sheet No. 4	Drawing No.
Checked		of 5	7-E-22941-N

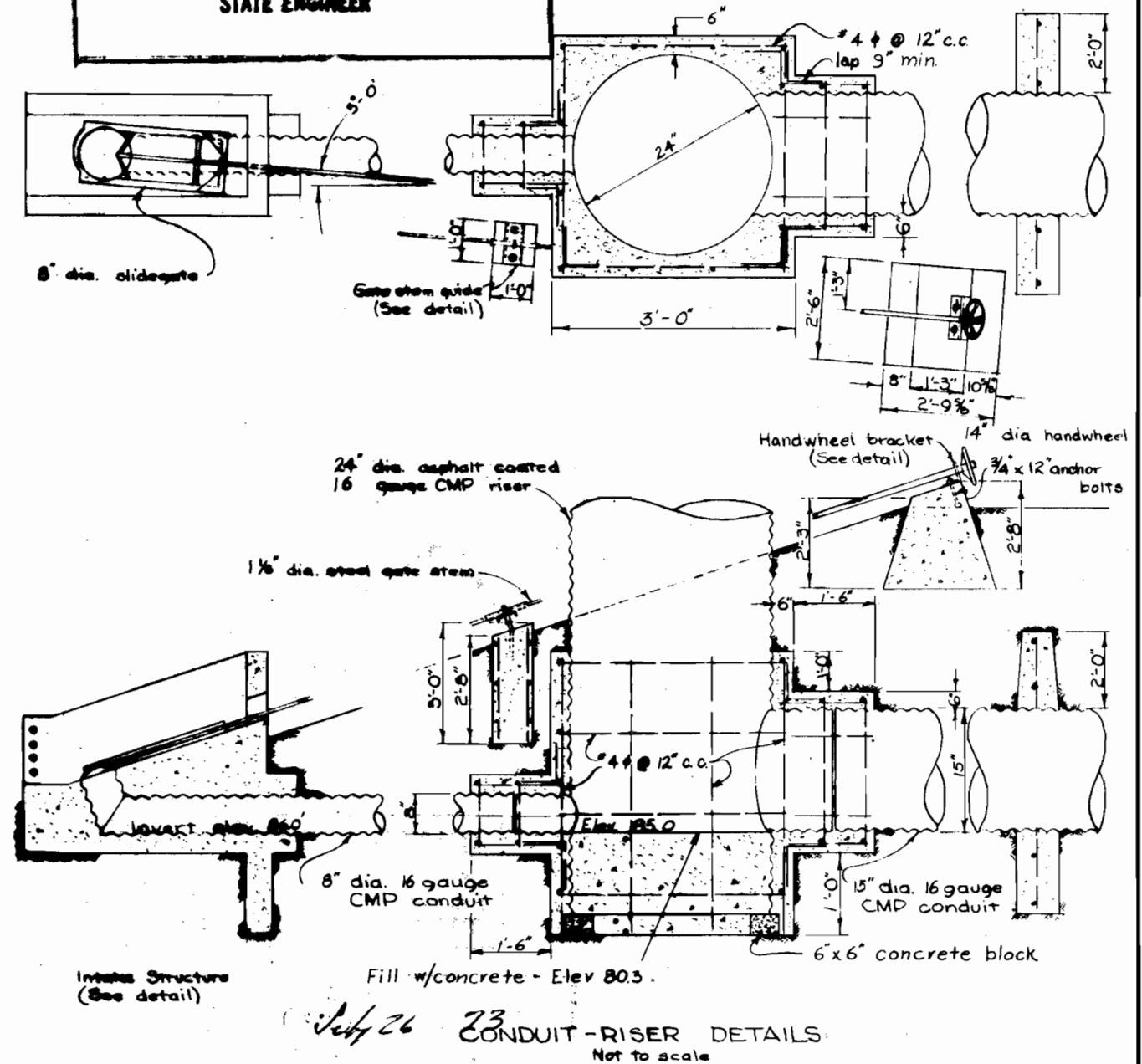
Application No. *R-50646*
Permit No. *A*

APPROVED. 11/26, 1923

Chas. Steele

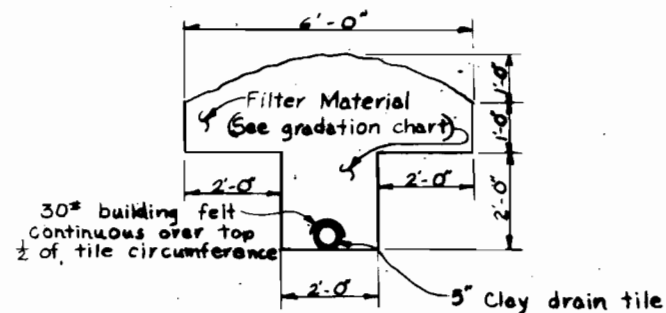
STATE ENGINEER

STATE ENGINEER
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DO NOT SEND OUT



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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JUN 1 2 1923
STATE ENGINEER

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 <u>R. J. PRANGER</u>	Date <u>3-73</u>
Drawn <u>R. J. PRANGER</u>	Date <u>3-73</u>
Traced	Sheet No. <u>3</u>
Checked	of <u>5</u>
Approved by <u>[Signature]</u>	Title <u>Asst. Engr.</u>
Approved by <u>[Signature]</u>	Title <u>Asst. Engr.</u>
7-E-22941-N	

