

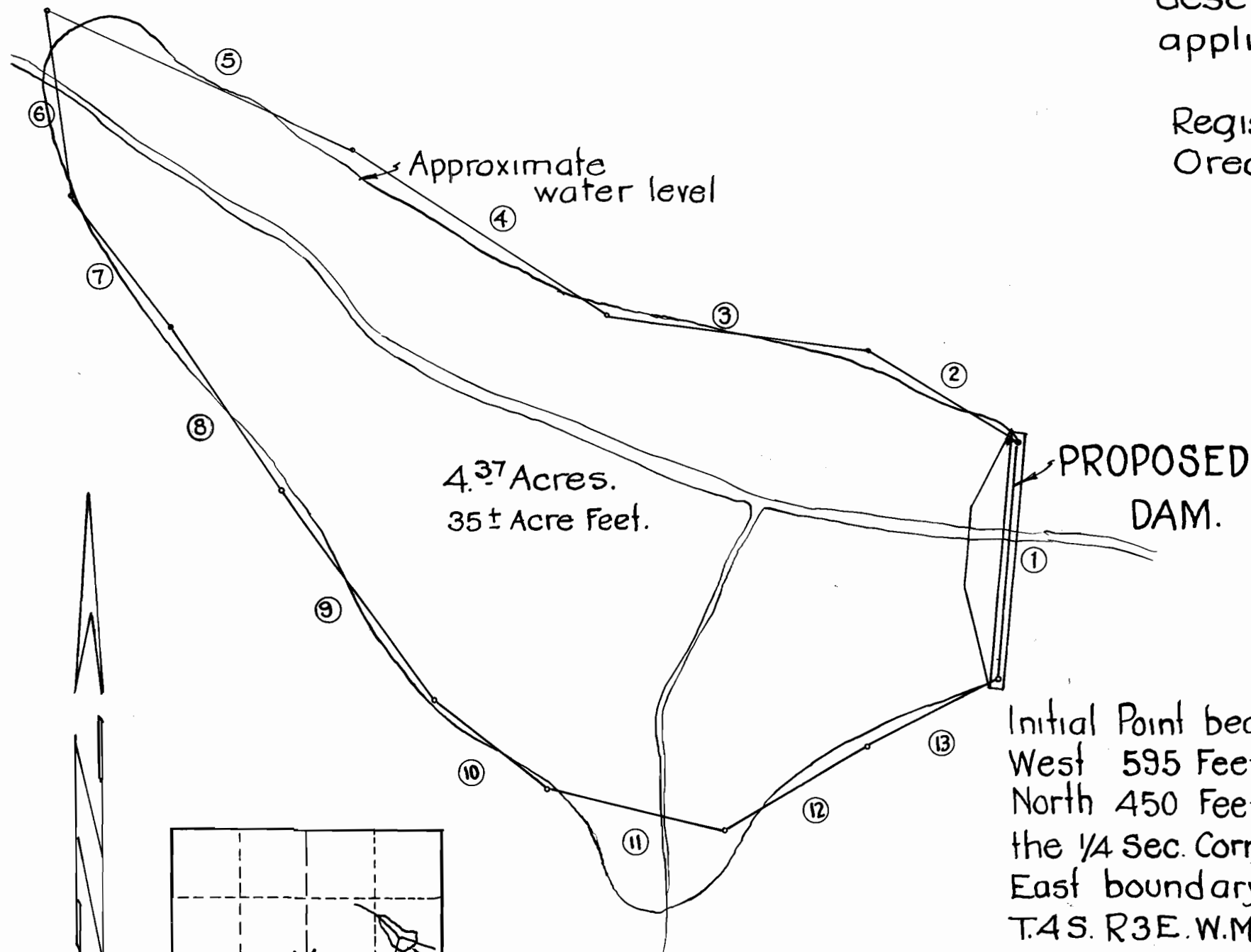


SECTION AT DAMSITE  
Scale 40' = 1"

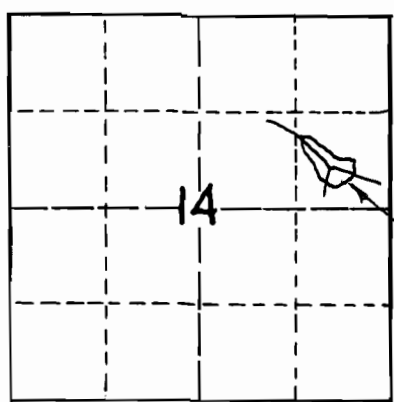
I Olney J Hawkins of Oregon City, Ore. do hereby certify that this map was made from notes taken during an actual survey made by me on Aug. 19th 1929 and that it correctly represents the works described in the accompanying application.

*Olney J. Hawkins*  
Registered Professional Engineer.  
Oregon No. 49 Nov. 1919.

| Course | Bearing     | Distance |
|--------|-------------|----------|
| 1      | N 4° 55' E  | 172'     |
| 2      | N 60° 05' W | 123'     |
| 3      | N 83° 15' W | 196'     |
| 4      | N 58° 10' W | 222'     |
| 5      | N 65° 54' W | 241'     |
| 6      | S 7° 39' E  | 136'     |
| 7      | S 38° 25' E | 121'     |
| 8      | S 34° 14' E | 148'     |
| 9      | S 35° 38' E | 191'     |
| 10     | S 52° 13' E | 104'     |
| 11     | S 16° 24' E | 136'     |
| 12     | N 58° 10' E | 122'     |
| 13     | N 61° 50' E | 110'     |



Initial Point bears  
West 595 Feet and  
North 450 Feet from  
the 1/4 Sec. Corner on the  
East boundary of Section 14  
T.4S. R.3E. W.M.



VICINITY MAP  
Scale 2" = 1 mi.

Application No. 12942  
Permit No. 9339

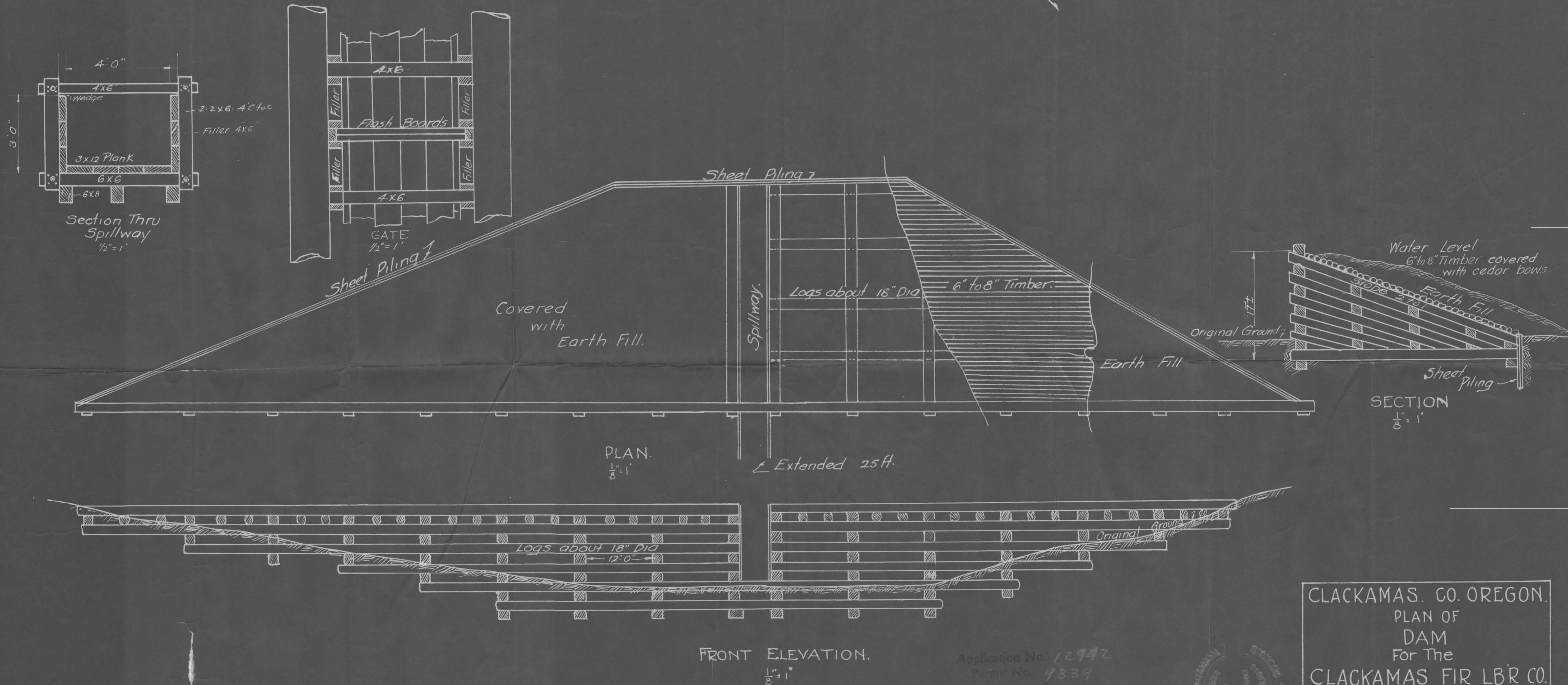
East 1/4 Cor. Sec. 14.  
T4S. R3E. W.M.

Scale 1" = 100'

**CLACKAMAS CO. ORE.**  
Map to Accompany Application  
of

for permit to appropriate water  
for a.

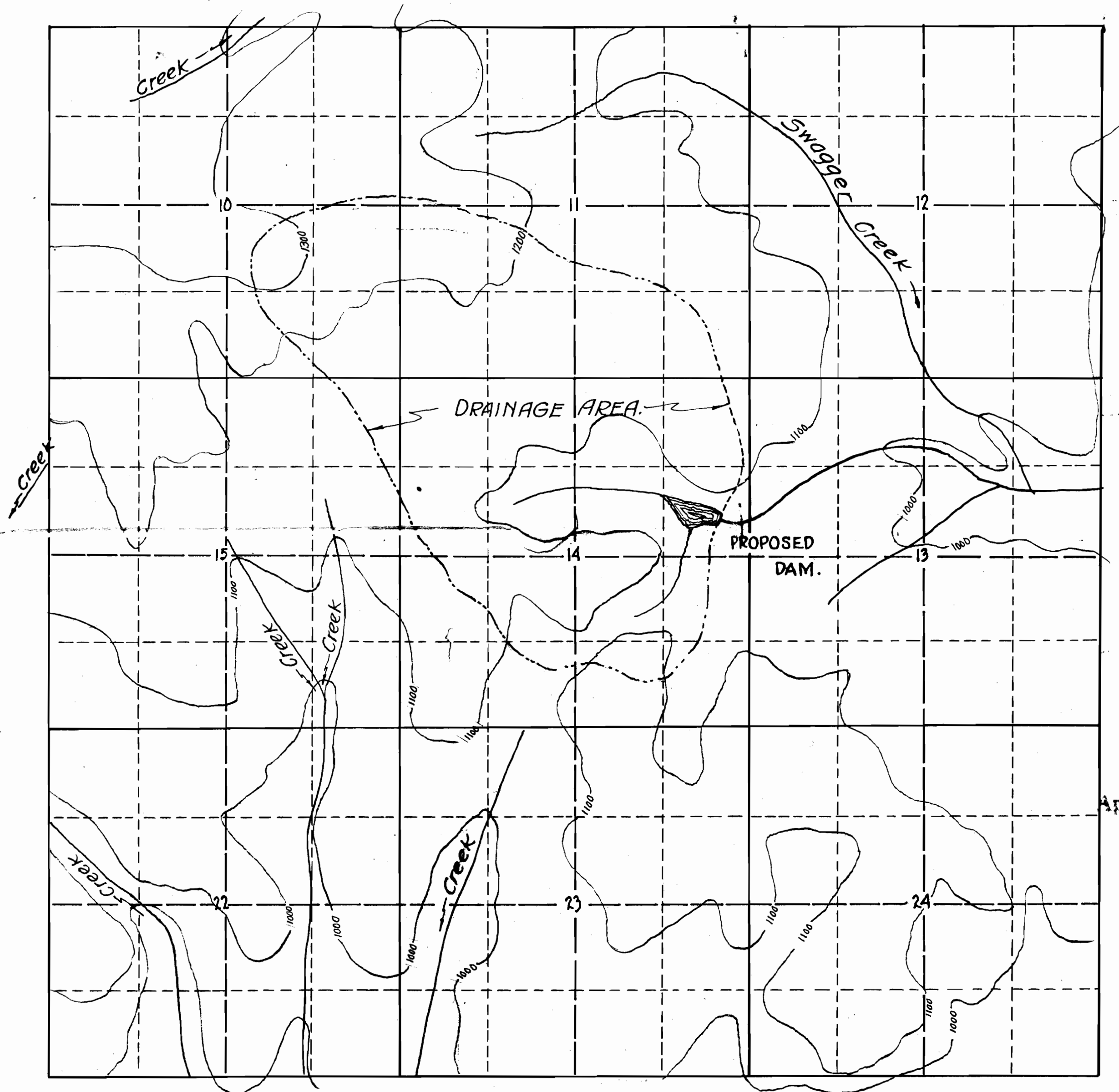
**LOG POND.**  
Sec. 14 T4S R.3E. W.M.  
Scale as shown.



Application No. 12942  
 Permit No. 9339



CLACKAMAS CO. OREGON.  
 PLAN OF  
 DAM  
 For The  
 CLACKAMAS FIR LBR CO.  
 SEC. 14 T.4S. R.3E. WM.  
 Olney & Hawkins Reg Engr No 49.

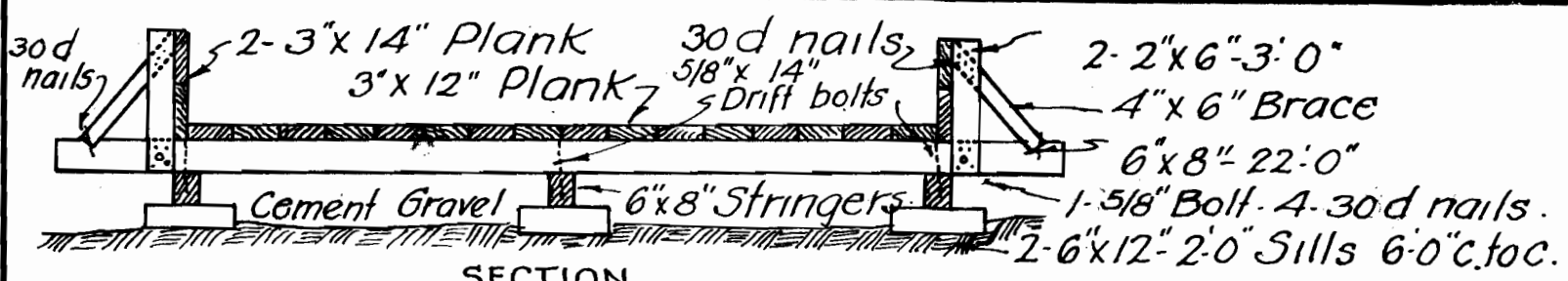


*Olney J. Hawkins*

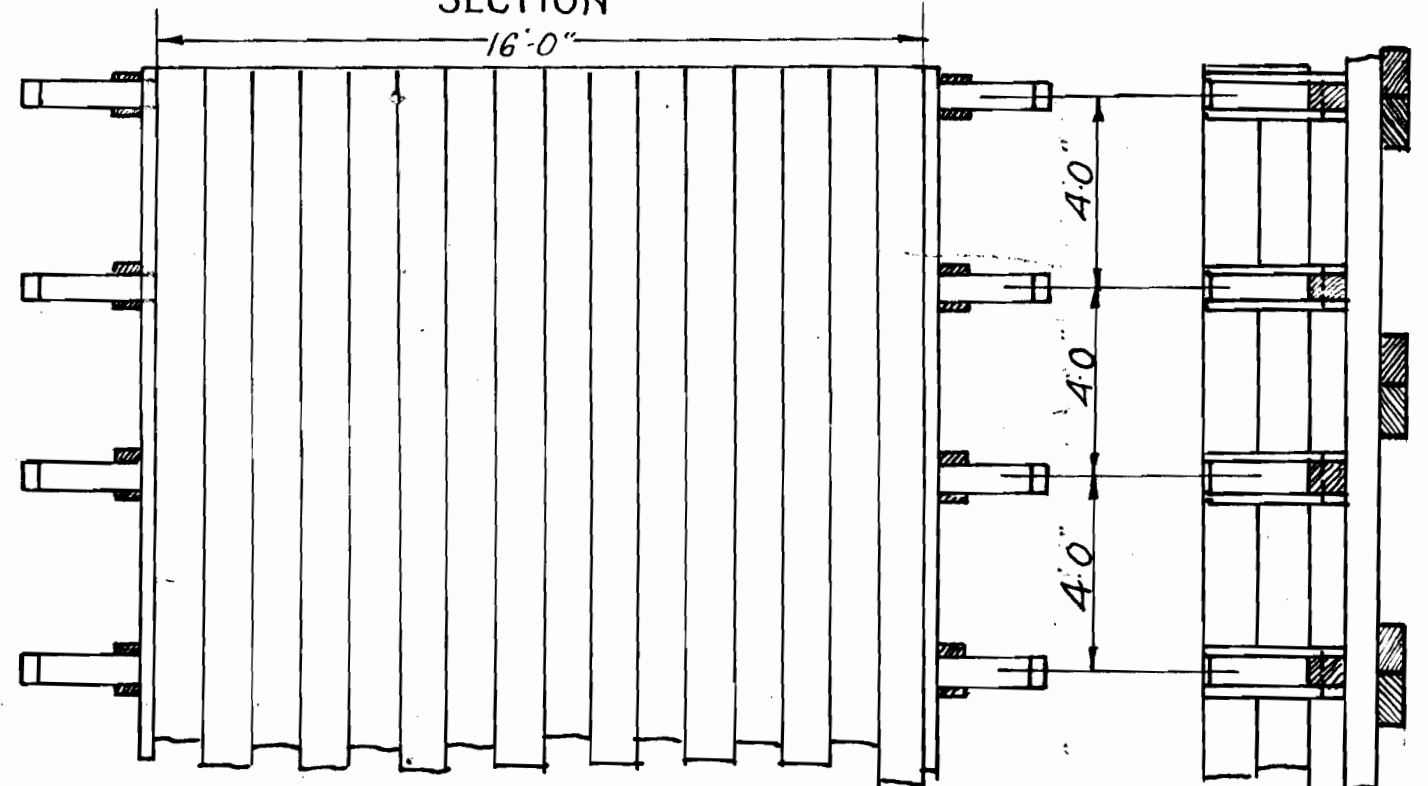
Application No. 12942  
Permit No. 9839

CLACKAMAS FIR LUMBER CO.  
MAP SHOWING  
DRAINAGE AREA ABOVE  
PROPOSED DAM.  
IN  
SEC. 14. T.3S. R.4E. W.M.  
CLACKAMAS CO. OREGON  
Scale 4" = 1 mile.

*Olney & Hawkins*

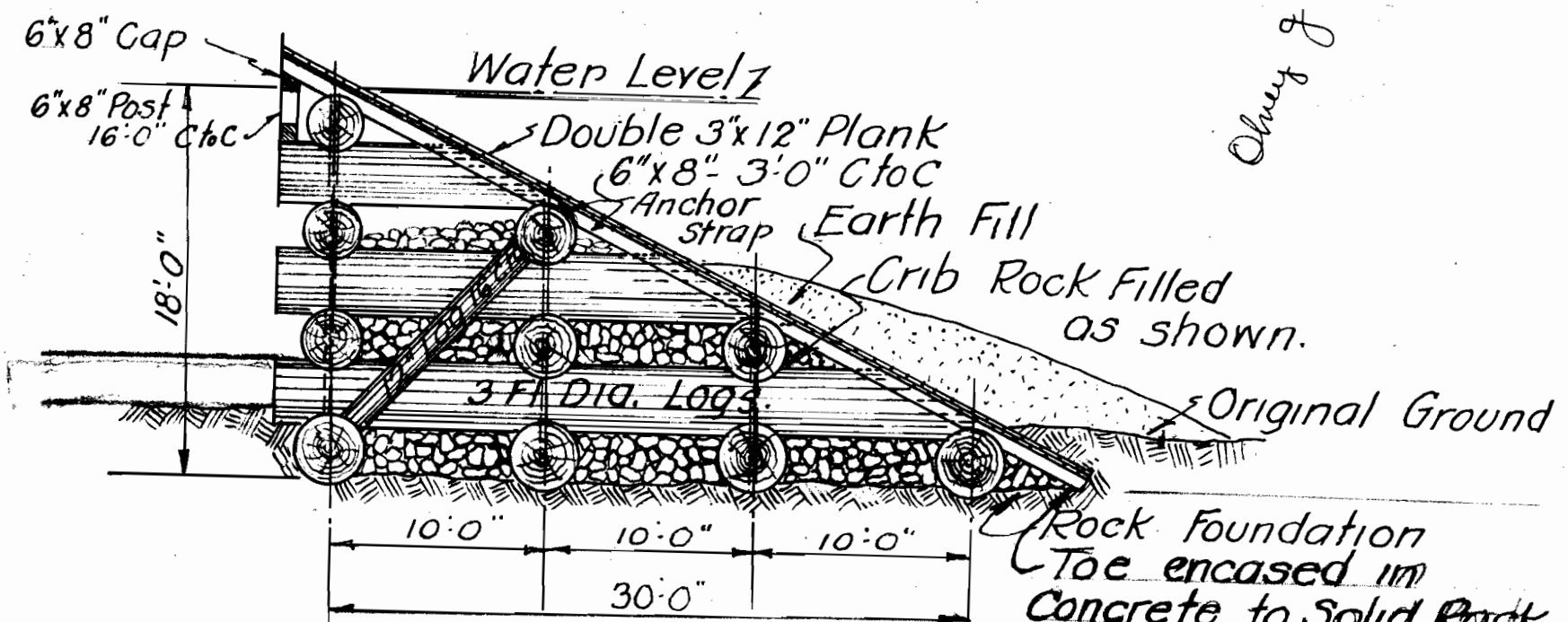


SECTION



PLAN OF SPILLWAY  
Scale 1/4" = 1 foot

ELEVATION.



SECTION AA  
Scale 1/8" = 1 ft

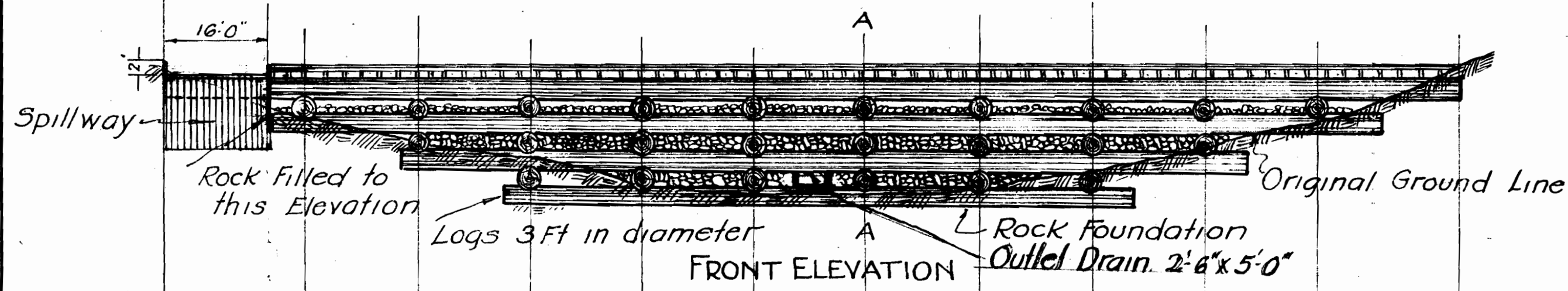
**SPECIAL PROVISIONS**

Excavation to be to solid rock approximately five feet below the surface of the ground.

Logs are to be 3'-0" in diameter dapped 6" at all bearings and bolted with 2-1"x54" drift bolts at each bearing. Anchor straps 1/2"x3"x4" are to be used as designated.

Spillway to be extended 30 feet below down stream face of dam to open ditch.

All work to be done by company forces.



FRONT ELEVATION

Dapped 6" at Bearings

2-1"x54" Drift bolts at each bearing

Rock Filled

6'x8' 3' c.to.c

Double 3'x12' Plank Back Filled with earth.

Intermediate Bracing 12" logs

Outlet Drain 2'-6"x5'-0"

PLAN  
Scale 1/16" = 1 foot

Application N. 12942  
Permit No. 19332

CLACKAMAS FIR LUMBER CO.

PLAN OF

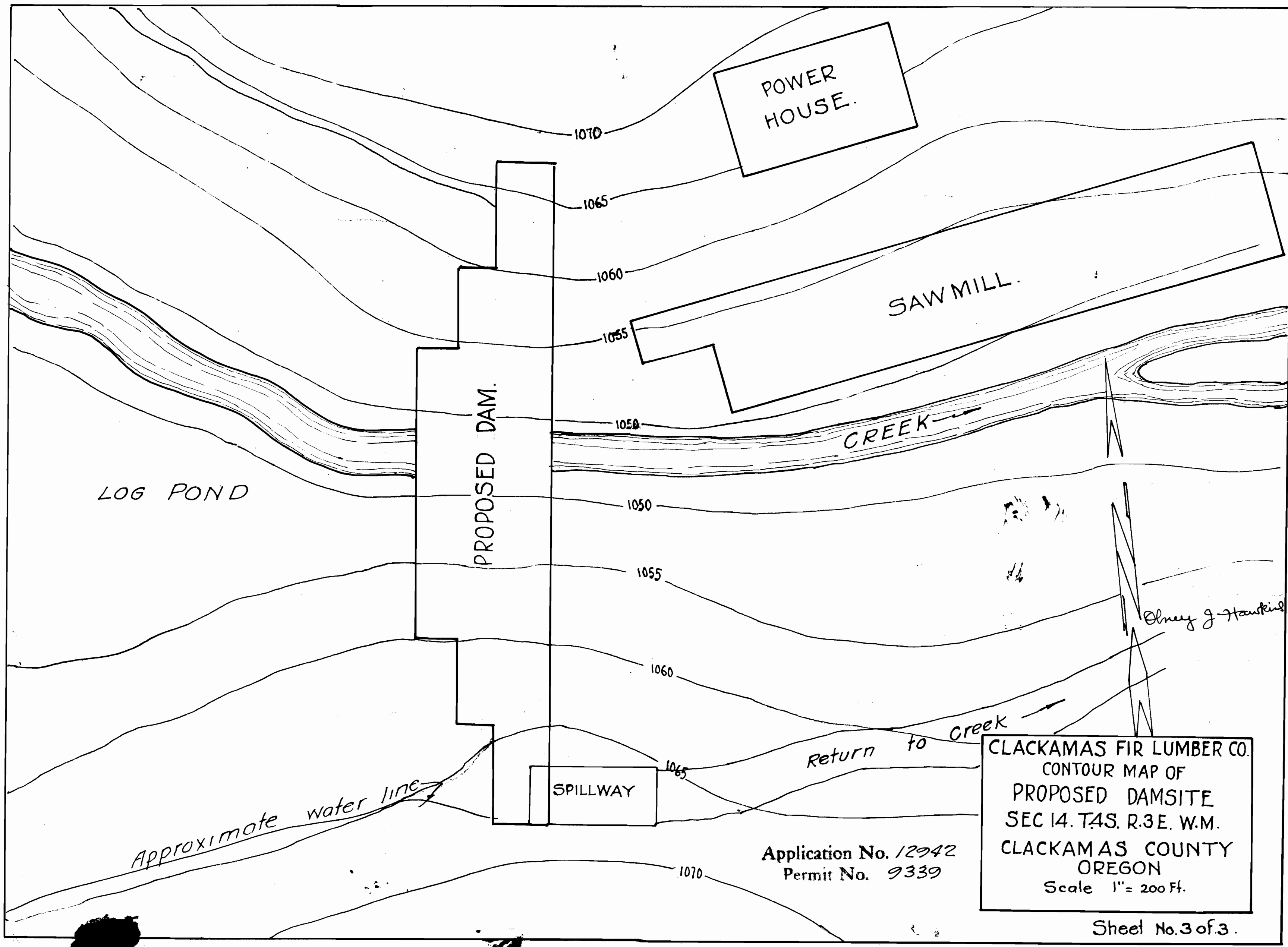
PROPOSED DAM

SEC 14. T4S. R.3E. W.M.

CLACKAMAS COUNTY

OREGON

Scale as shown.



CLACKAMAS FIR LUMBER CO.  
CONTOUR MAP OF  
PROPOSED DAMSITE  
SEC 14. T.4S. R.3E. W.M.  
CLACKAMAS COUNTY  
OREGON  
Scale 1" = 200 Ft.

Application No. 12942  
Permit No. 9339