

T9S, R28E, W.M.  
GRANT COUNTY, OREGON

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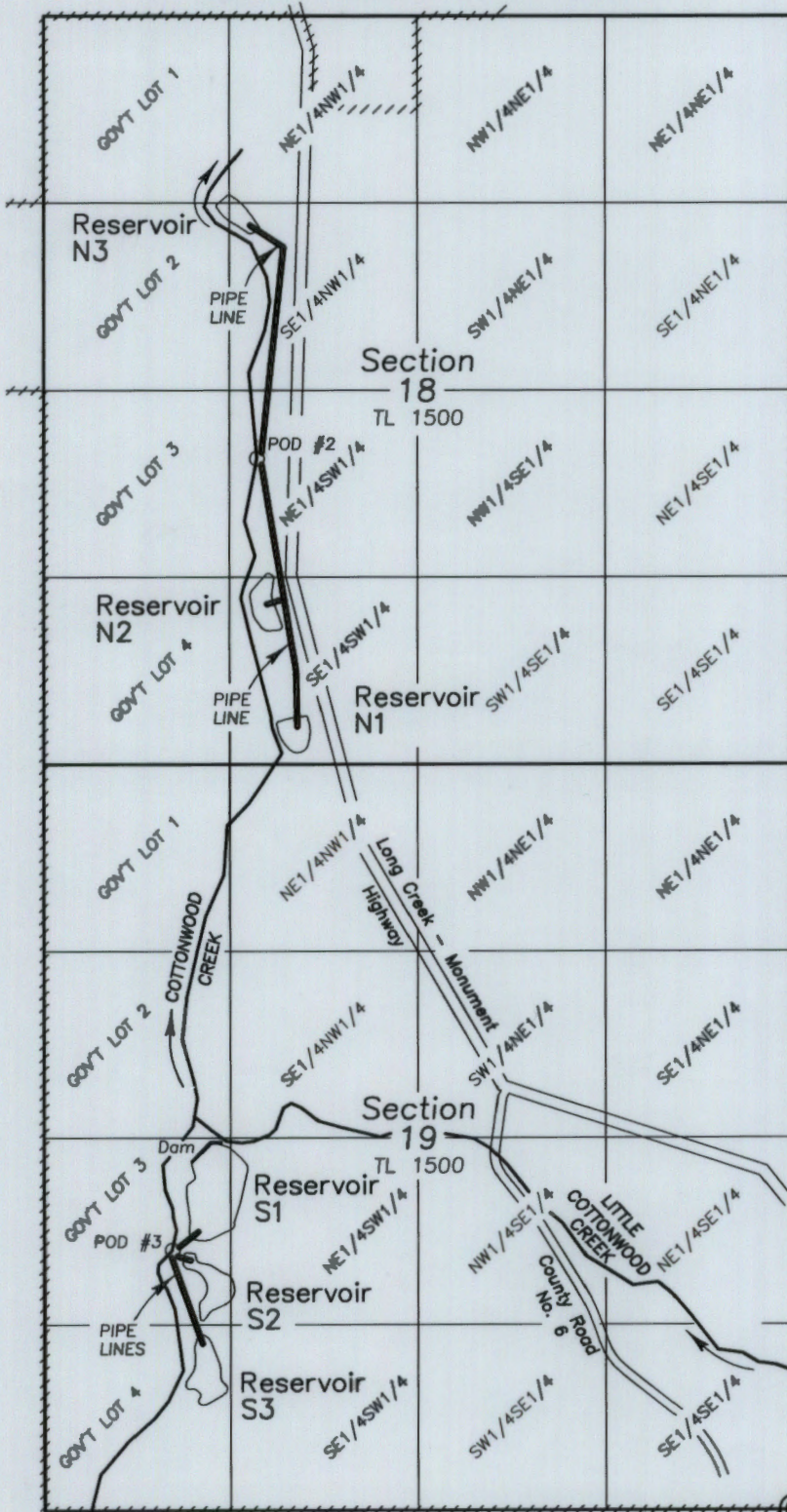
NOV 30 2016

WATER RESOURCES DEPT  
SALEM, OREGON



Scale 1"=1320'

APPLICATION MAP TO  
STORE WATER IN A  
RESERVOIR  
For  
TRIPLE 7 RANCH, LLC  
November 21, 2016



Ties are from the SE corner of Section 19 to the center of the reservoir. Springs are located at the center of the reservoirs.

RESERVOIR N1  
SURFACE AREA 1.08 AC.  
VOLUME 12.4 AF  
CENTER IS 5510'N & 3500'W

RESERVOIR S1  
SURFACE AREA 5.00 AC.  
VOLUME 56.6 AF  
DAM IS 2550'N & 4170'W

RESERVOIR N2  
SURFACE AREA 1.30 AC.  
VOLUME 14.0 AF  
CENTER IS 6410'N & 3730'W

RESERVOIR S2  
SURFACE AREA 1.64 AC.  
VOLUME 15.3 AF  
CENTER IS 1580'N & 4050'W

RESERVOIR N3  
SURFACE AREA 0.94 AC.  
VOLUME 9.5 AF  
CENTER IS 9170'N & 3900'W

RESERVOIR S3  
SURFACE AREA 1.90 AC.  
VOLUME 21.7 AF  
CENTER IS 980'N & 4110'W

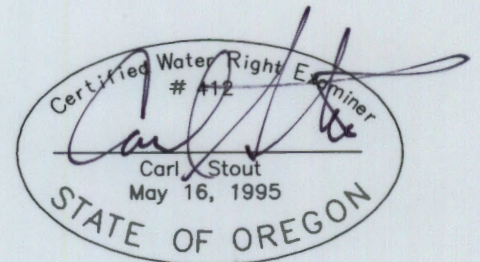
POD #2 is 4810' north and 3820' west of the E1/4 corner of Section 19.  
POD #3 is 1210' north and 4270' west of the E1/4 corner of Section 19.

Grant County Surveyor  
Brass Cap

A portion of Tax Lot  
9-28 TL1500

----- Tax Lot Boundary

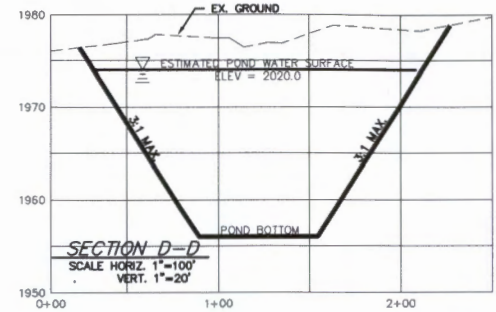
NOTE: The preparation of this map was for the purpose of identifying the location of the proposed water right and has no intent to provide dimensions or location of property ownership lines



R-88219



# RESERVOIR N1



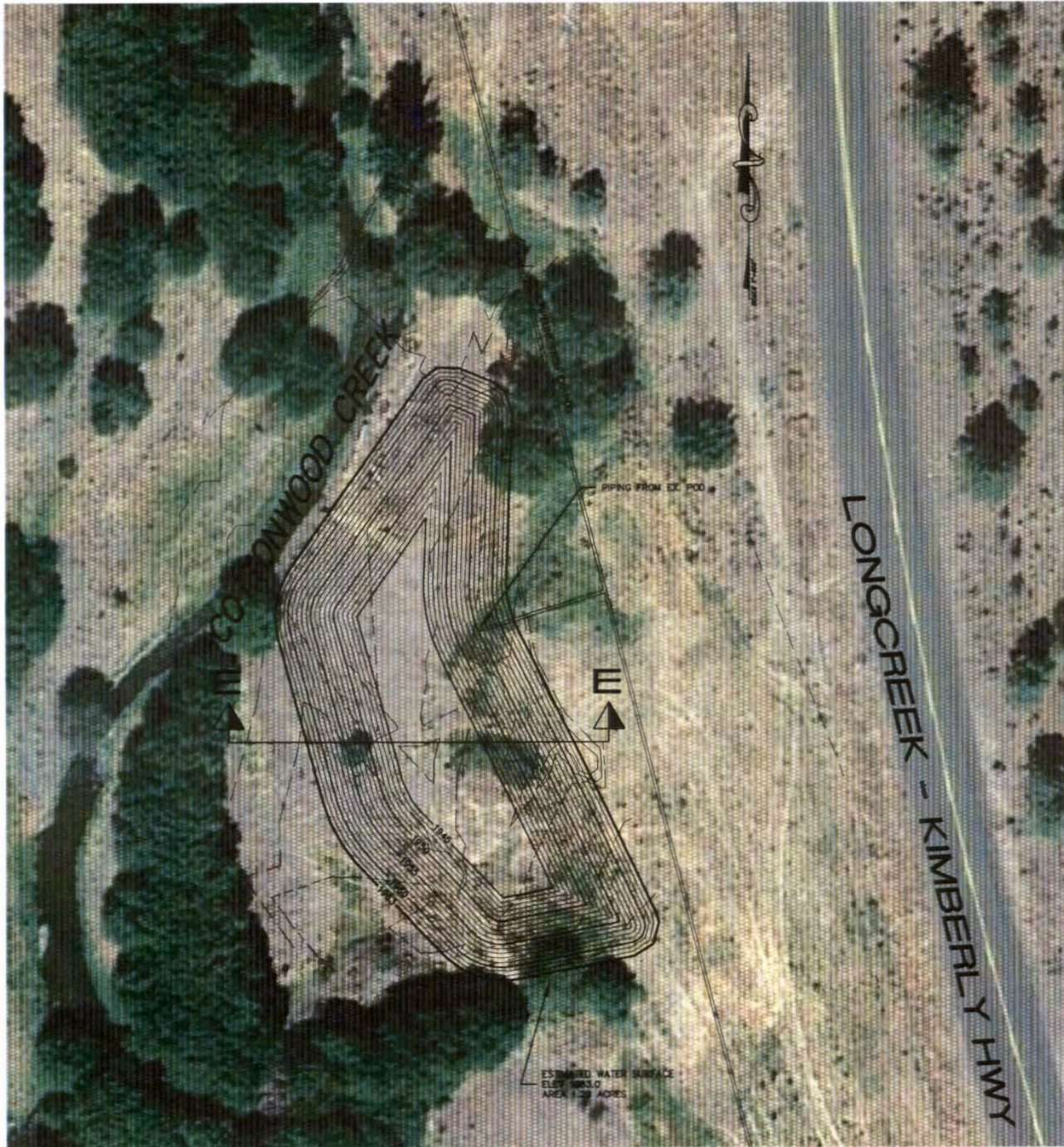
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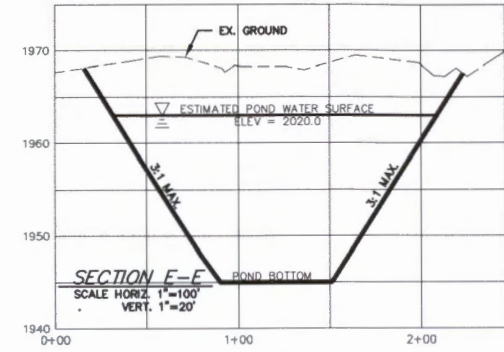
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R-98379



# RESERVOIR N2



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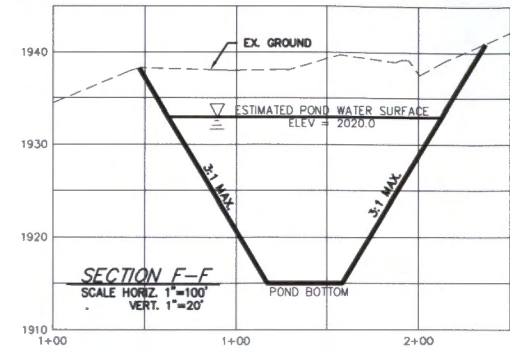
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R-88719



# RESERVOIR N3



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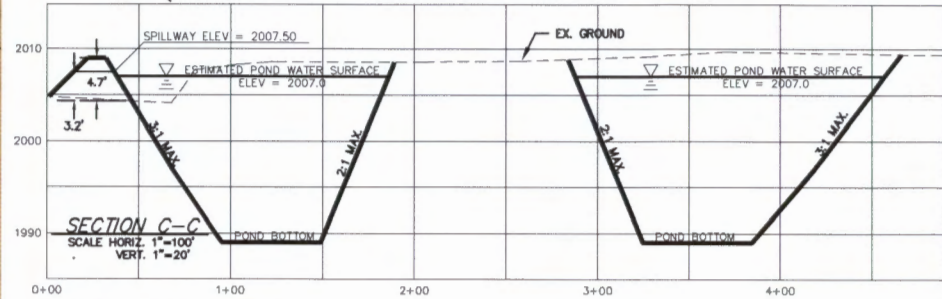
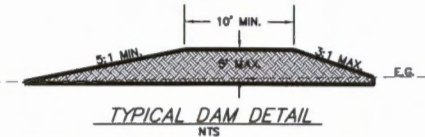
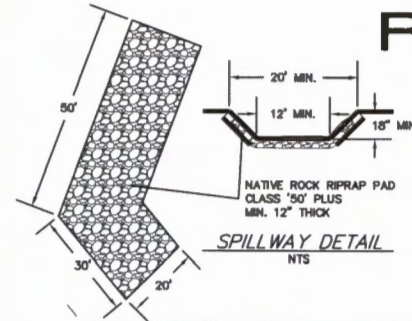
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R-9879



# RESERVOIR S1



## (Draft) Earthfill Specifications

### 1. Scope

The work consists of the construction of earth embankments, other earthfills, and earth backfills required by the drawings and specifications.

a. Earthfill is composed of natural earth materials that can be placed and compacted by construction equipment operated in a conventional manner.

### 2. Material

a. All fill material shall be obtained from required excavations. The selection, blending, routing, and disposition of material in the various fills shall be subject to approval by the engineer.  
b. Fill materials shall contain no frozen soil, sod, brush, roots, or other perishable material. Rock particles larger than the maximum size specified for each type of fill shall be removed prior to compaction of the fill.

### 3. Foundation preparation

a. Foundations for earthfill shall be stripped to remove vegetation and other unsuitable material or shall be excavated as specified.  
b. Except as otherwise specified, earth foundation surfaces shall be graded to remove surface irregularities and shall be scarified parallel to the axis of the fill or otherwise acceptably scored and loosened to a minimum depth of 6 inches. The moisture content of the loosened material shall be controlled as specified for the earthfill, and the surface material of the foundation shall be compacted and bonded with the first layer of earthfill as specified for subsequent layers of earthfill.  
c. Earth abutment surfaces shall be free of loose, uncompacted earth in excess of 2 inches in depth normal to the slope and shall be at such a moisture content that the earthfill can be compacted against them to produce a good bond between the fill and the abutments.  
d. Foundation and abutment surfaces shall be no steeper than two horizontal to one vertical unless otherwise specified. Test pits or other cavities shall be filled with compacted earthfill conforming to the specifications for the earthfill to be placed upon the foundation.

### 4. Placement

a. Earthfill shall not be placed until the required excavation and foundation preparation have been completed and the foundation has been inspected and approved by the engineer. Earthfill shall not be placed upon a frozen surface nor shall snow, ice, or frozen material be incorporated in the earthfill matrix.  
b. Earthfill shall be placed in approximately horizontal layers. The thickness of each layer before compaction shall not exceed the maximum thickness of 8 inches. Material placed by dumping in piles or windrows shall be spread uniformly to not more than the specified thickness before being compacted.  
c. Earthfill and earth backfill in dams, levees, and other structures designed to restrain the movement of water shall be placed to meet the following additional requirements:  
• The distribution of materials throughout each zone shall be essentially uniform, and the earthfill shall be free from lenses, pockets, streaks, or layers of material differing substantially in texture, moisture content, or gradation from the surrounding material. Zone earthfills shall be constructed concurrently unless otherwise specified.  
• If the surface of any layer becomes too hard and smooth for proper bond with the succeeding layer, it shall be scarified parallel to the axis of the fill to a depth of not less than 2 inches before the next layer is placed.  
• The top surface of embankments shall be maintained approximately level during construction.  
• Dam embankments shall be constructed in continuous layers from abutment to abutment.

### 5. Control of moisture content

a. During placement and compaction of earthfill, the moisture content of the material being placed shall be maintained within the specified range.  
b. The application of water to the earthfill material shall be accomplished at the borrow areas insofar as practicable. Water may be applied by sprinkling the material after placement on the earthfill, if necessary.  
c. Uniform moisture distribution shall be obtained by diskings.  
d. Material that is too wet when deposited on the earthfill shall either be removed or be dried to the specified moisture content prior to compaction.  
e. If the top surface of the preceding layer of compacted earthfill or a foundation or abutment surface in the zone of contact with the earthfill becomes too dry to permit suitable bond, it shall either be removed or scarified and moistened by sprinkling to an acceptable moisture content before placement of the next layer of earthfill.

### 6. Compaction

a. Each layer of earthfill shall be compacted by the specified number of passes of the type and weight of roller or other equipment specified or by an approved equivalent method, compacted to a density equivalent to that of the surrounding in-place earth material. Each pass shall consist of at least one passage of the roller wheel or drum over the entire surface of the layer. Compaction shall be witnessed and approved by Engineer.  
b. Native material that is testable, a Geotechnical Engineer and testing lab shall inspect and provide testing services and to certify that the earthfill meets the compaction requirement of 95 % dry density per AASHTO T-99 test method.

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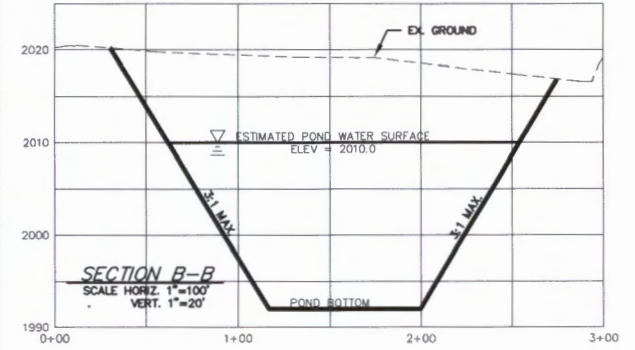
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# RESERVOIR S2



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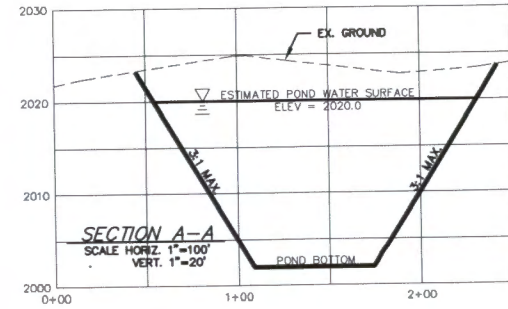
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# RESERVOIR S3



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R-88319