Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

January 6, 2021

Hollis Land & Timber LLC
3 Monroe Parkway
Suite P-425
Lake Oswego OR 97305

On December 30, 2020 the Water Resources Department received the Claim of Beneficial Use (COBU) for the following file(s):

Application R-87985 Permit R-15182

The COBU included a report and map. The Department hopes to review your submittal within approximately 2 - 4 years. At that time we will review these items and provide a final certificate, proposed certificate, or a request for additional information.

If you are interested in having your COBU reviewed sooner, you may pay to have your file processed immediately, using the Reimbursement Authority program, which is described at:

https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/Certificate.aspx

Customer Service phone: (503) 986-0900

Enclosed is your receipt for the $200.00 COBU recording fee

If you sell the property, please contact the Department, or have the new owners contact the Department about the need to file an assignment.

Cc: file R-87985
William Flatz, CWRE

Checklist for Claims of Beneficial Use Received at CSG Counter

Application #: R-87985	WRD Reviewer: Judy
Transfer #:	
Date Received: 212/30/2020	
CWRE Name: Bill Flatz	
Priority Date (s): 06/11/2014	

Fees Required:

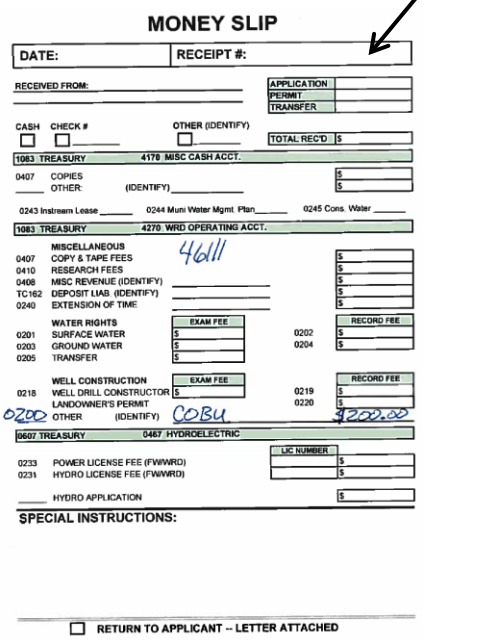
☑ YES NO ☐ A fee of $200 must accompany this form for <u>permits</u> with priority dates of July 9, 1987, or later.

☐ YES NO ☐ A fee of $200 must accompany this form for any <u>transfers</u> including a water right with a priority date of July 9, 1987, or later.
Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

Map Review:

☑ Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b))
☑ Application & permit #; or transfer # (OAR 690-014-0100(1))
☑ Disclaimer (OAR 690-014-0170(5))
☑ North arrow (OAR 690-310-0050(2)(c))
☑ CWRE stamp and signature (OAR 690-014 & 310-0050)
☑ Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
☑ Township, range, section, and tax lot numbers (OAR 690-310-0050(4))

Fill in App or Transfer Number


MONEY SLIP

DATE: RECEIPT #:

RECEIVED FROM:

APPLICATION
PERMIT
TRANSFER

CASH ☐ CHECK # ☐ OTHER (IDENTIFY) ☐

TOTAL REC'D $

1083 TREASURY 4170 MISC CASH ACCT.

0407 COPIES $
OTHER: (IDENTIFY) $

0243 Instream Lease 0244 Muni Water Mgmt. Plan 0245 Cons. Water

1083 TREASURY 4270 WRD OPERATING ACCT.

MISCELLANEOUS 4611
0407 COPY & TAPE FEES
0410 RESEARCH FEES
0408 MISC REVENUE (IDENTIFY)
TC162 DEPOSIT LIAB. (IDENTIFY)
0240 EXTENSION OF TIME

WATER RIGHTS — EXAM FEE — RECORD FEE
0201 SURFACE WATER 0202
0203 GROUND WATER 0204
0205 TRANSFER

WELL CONSTRUCTION — EXAM FEE — RECORD FEE
0218 WELL DRILL CONSTRUCTOR 0219
LANDOWNER'S PERMIT 0220
0200 OTHER (IDENTIFY) COBU $200.00

0607 TREASURY 0467 HYDROELECTRIC

LIC NUMBER
0233 POWER LICENSE FEE (FW/WRD)
0231 HYDRO LICENSE FEE (FW/WRD)
HYDRO APPLICATION

SPECIAL INSTRUCTIONS:

☐ RETURN TO APPLICANT -- LETTER ATTACHED

Report Review:

☑ On form provided by the Department (OAR 690-014-0100(1))
☑ Application & permit #; or transfer # (OAR 690-014)
☑ Ownership information (OAR 690-014)
☑ Date of survey (OAR 690-014)
☑ Person interviewed (OAR 690-014)
☑ County (OAR 690-014)
☑ CWRE stamp and signature (OAR 690-014-0100)
☑ Signature(s) of <u>all</u> permittee of transfer holder (OAR 690-014-0100)

Groundwater File Review:

☐ Pump Test not required (Priority Date prior to December 20, 1988) *If no, include pump test flyer w/acknowledgment letter
☐ Pump Test required (Priority Date on or after December 20, 1988)
☐ Pump Test submitted
☐ Pump Test not submitted

CLAIM OF BENEFICIAL USE for Reservoir Permits by CWRE's (not self-certified)

OREGON WATER RESOURCES DEPARTMENT
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

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A fee of $200 must accompany this form for permits with priority dates of July 9, 1987, or later.
Claims received without the correct fee of $200 will be returned.

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at:
https://www.oregon.gov/OWRD/Forms/Pages/default.aspx
The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

If you have questions regarding the completion of this form, please call 503-986-0900 and ask for the Certificate Section.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see:
https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx

SECTION 1

GENERAL INFORMATION

1. File Information

APPLICATION #	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
R-87985	R-15182	N/A

2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME	PHONE NO.	ADDITIONAL CONTACT NO.
Hollis Land and Timber LLC		

ADDRESS			
3 Monroe Parkway, Suite P-425			
CITY	STATE	ZIP	E-MAIL
Lake Oswego	OR	97035	

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If the current property owner is not the permit holder of record, it is recommended that an assignment be filed with the Department. ***Each*** *permit holder of record must sign this form.*

3. Permit holder of record (this may, or may not, be the current property owner)

PERMIT HOLDER OF RECORD		
Hollis Land and Timber LLC		
ADDRESS		
3 Monroe Parkway, Suite P-425		
CITY	STATE	ZIP
Lake Oswego	OR	97035

ADDITIONAL PERMIT HOLDER OF RECORD		
ADDRESS		
CITY	STATE	ZIP

4. Date of Site Inspection:

2-6-2017

5. Person(s) interviewed and description of their association with the project:

NAME	DATE	ASSOCIATION WITH THE PROJECT
Zach Kramer	2-6-2017	Partner and Manager

6. County

Yamhill

7. If any property described in the place of use of the permit final order is excluded from this report, identify the owner of record for that property (ORS 537.230(5)):

OWNER OF RECORD		
N/A		
ADDRESS		
CITY	STATE	ZIP

Add additional tables for owners of record as needed

SECTION 2

SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.

Seal and Signature

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CWRE NAME		PHONE NO.	ADDITIONAL CONTACT NO.
William L. Flatz		**503-357-5717**	**503-939-8381**
ADDRESS			
2318-B Pacific Avenue			
CITY	STATE	ZIP	E-MAIL
Forest Grove	**OR**	**97116**	**billflatz@stuntzner.com**

Permit Holder's of Record Signature or Acknowledgement

Each *permit or transfer holder of record must sign this form in the space provided below.*

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
	DAVID H. ANDERSON	PRESIDENT	12/18/20

SECTION 3

CLAIM DESCRIPTION

1. **Reservoir source and, if from surface water, the tributary:**

RESERVOIR NAME OR NUMBER	SOURCE	TRIBUTARY
Hollis Reservoir	Unnamed creek	Bryan Creek, Willamette River

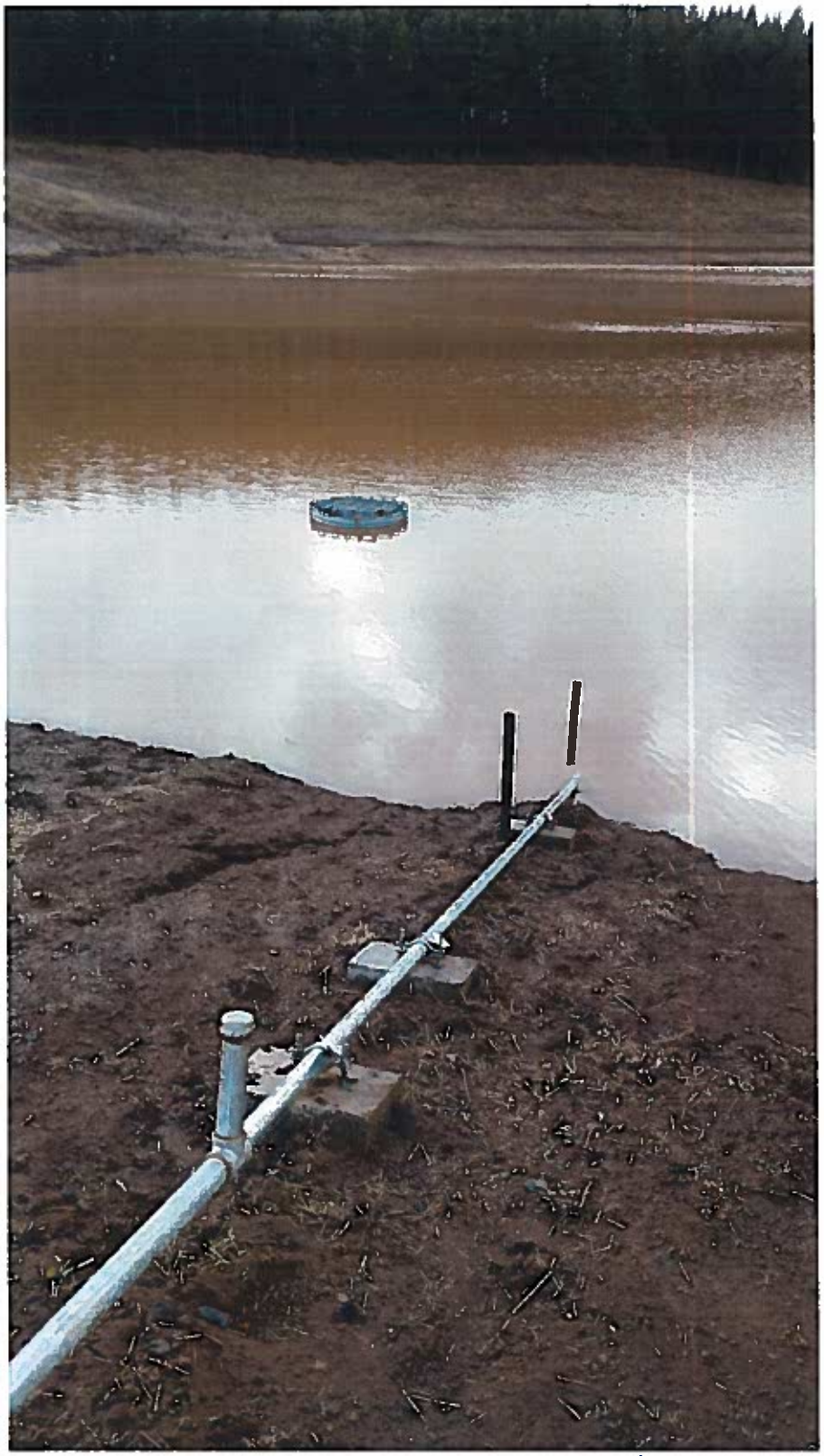
2. **Developed use(s), period of use, and acre foot (af) for each use:**

RESERVOIR NAME OR NUMBER	USES	SEASON OR MONTHS WHEN WATER WAS APPROPRIATED FOR STORAGE	VOLUME STORED (AF)
Hollis Reservior	Storage for Irrigation, wildlife, aesthetics, fire protection and recreation.	Nov. 1st through June 30th.	75.9 AF
Total Quantity of Water Stored			75.9 AF

3. **Provide a general narrative description of the distribution works. This description must trace the water system from each point of diversion to the reservoir:**

The winter runoff flows downhill into the reservoir. The majority of the runoff flows south in an intermittent channel that was previously excavated when the prior owner installed drain tile. Before flowing into the reservoir the channel enters a sediment settling pool which can be emptied seasonally. The sediment settling pool filled up with sediment during the first winter.

Drone photo of Hollis Reservoir May 12, 2017



Hollis Reservoir first fill complete February 6th, 2017.

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

4. Variations:

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below. YES NO

(e.g. *"The permit allowed the development of three reservoirs. The permit holder only developed one of the reservoirs."* or *"The permit allowed for the storage of 9 acre feet of water. The reservoir was developed to hold 5.2 acre feet."*)

The permit allowed 100 acre feet of storage. The owners developed 75.9 acre feet of storage.

5. Claim Summary:

RESERVOIR NAME OR #	MAXIMUM STORAGE AUTHORIZED BY PERMIT (AF)	MAXIMUM STORAGE DEVELOPED (AF)
Hollis Reservoir	**100 AF**	**75.9 AF**

SECTION 4

SYSTEM DESCRIPTION

Are there multiple reservoirs? YES NO

If *"YES"* you will need to copy and complete Sections A through E for each reservoir.

Reservoir Name or Number this section describes (only needed if there is more than one):

N/A

A. Reservoir Location

1. **Is the reservoir on-channel?** YES NO

2. **Provide dam outlet location and/or point of diversion(s).**

TWP	RNG	MER	SEC	QQ	GLOT	DLC	MEASURED DISTANCES
2S	3W	W.M.	35	NW/NW		45	345' West and 1380'South from the NW Corner of Section 35

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport the water from the point(s) of diversion to the reservoir.

1. **Is a pump used?** YES NO

If "NO" items 2 through item 5 may be deleted.

2. **Pump Information**

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)

3. **Theoretical Pump Capacity**

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)

4. **Provide pump calculations:**

5. Measured Pump Capacity (using meter if meter was present and system was operating)

Initial Meter Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (in cfs)

Reminder: For pump calculations use the reference information at the end of this document.

6. Additional notes or comments related to the system:

The reservoir fills from natural runoff during the winter months.

C. Gravity Flow Pipe

(The Department typically uses the Hazen-William's formula for a gravity flow pipe system)

1. Does the system involve a gravity flow pipe? YES NO

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

Pipe Size	Pipe Type	"C" Factor	Amount of Fall	Length of Pipe	Slope	Computed Rate of Water Flow (in cfs)

3. Provide calculations:

4. If an actual measurement was taken, provide the following:

Date of Measurement	Who Made the Measurement	Measurement Method	Measured Quantity of Water (in cfs)

Attach measurement notes.

D. Gravity Flow Canal or Ditch

(The Department typically uses Manning's formula for canals and ditches)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? YES NO

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

Canal or Ditch Type (Material)	Top Width of Canal or Ditch	Bottom Width of Canal or Ditch	Depth	"N" Factor	Amount of Fall	Length of Canal / Ditch	Slope	Computed Rate (in cfs)

3. Provide calculations:

4. If an actual measurement was taken, provide the following:

Date of Measurement	Who Made the Measurement	Measurement Method	Measured Quantity of Water (in cfs)

Attach measurement notes.

E. Reservoir

1. Does the reservoir require the submittal of as-built plans and specifications? YES NO

If "YES", answer item 2; items 3 through 8 relating to this section may be deleted.
If "NO", skip items 2; answer items 3 through 8.

2. Complete the table:

Have the Documents been submitted? Yes or No	When were the Documents Submitted?	Have they been approved by the Department?	Number of Acre Feet Stored
Yes	7-14-16	Yes	75.9 AF

3. If the reservoir stores less than 9.2 acre-feet of water or if the dam is less than 10 feet in height, and as-built plans and specifications are not required, complete the table and items 4 through 8.

Maximum Depth	Average Depth	Surface Area (in acres)	Volume (in acre feet)
25.5'	10.5'	7.71 ac	75.9 AF

4. Provide reservoir volume calculations:

POND VOLUME CLACs using as-built data

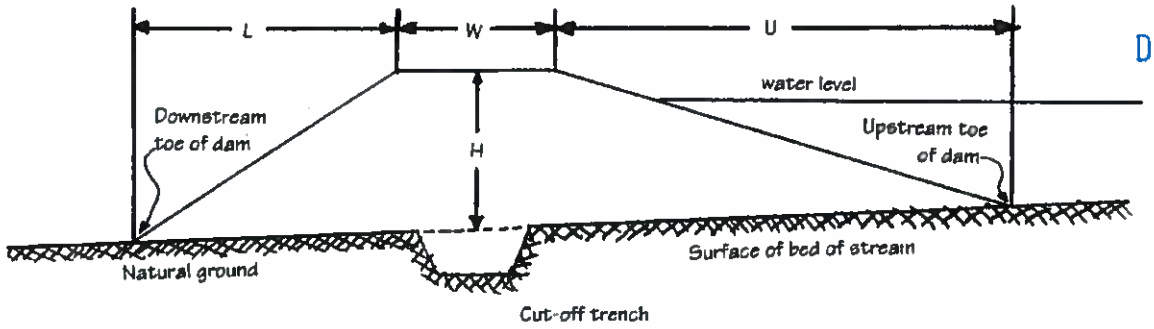
	EL	Area sf	Area ac	Δ EL	Vol cf	Vol acft	Vcum acft
top dam	758	468,392	10.753				127.953
				3.3	1,377,152	31.615	
	756	405,770	9.315				96.338
				1.30	487,976	11.202	
Emerg. Spill	754.70	366,245	8.408				85.135
				0.7	248,923	5.714	
	754	344,963	7.919				79.421
				0.45	153,265	3.518	
normal pool	753.55	336,216	7.718				75.902
				1.55	468,719	10.760	
	752	306,087	7.027				65.142
				2	574,670	13.193	
	750	268,583	6.166				51.950
				2	504,707	11.586	
	748	236,124	5.421				40.363
				2	441,126	10.127	
	746	205,002	4.706				30.236
				2	376,823	8.651	
	744	171,821	3.944				21.586
				2	307,311	7.055	
	742	135,490	3.110				14.531
				2	235,318	5.402	
	740	99,828	2.292				9.128
				2	171,202	3.930	
	738	71,374	1.639				5.198
				2	116,298	2.670	
	736	44,924	1.031				2.528
				2	66,291	1.522	
	734	21,367	0.491				1.007
				2	30,728	0.705	
	732	9,361	0.215				0.301
				2	11,239	0.258	
est. low outlet	730	1,878	0.043				0.043
dead pool				2	1,878	0.043	

See stage – storage curve on sheet 1 of the attached drawings of record.

5. Provide the following information concerning the physical characteristics of the dam:

CREST WIDTH (W)	DAM HEIGHT AT CENTERLINE (H)	DISTANCE FROM DOWNSTREAM TOP OF DAM TO DOWNSTREAM TOE (L)	DISTANCE FROM UPSTREAM TOP OF DAM TO UPSTREAM TOE (U)	WATER LEVEL AT INSPEGTION	DOWN-STREAM SLOPE	UP-STREAM SLOPE
16'	33.54'	130'	105'	753.55'	3:1	3.5:1

Example Dam Profile *This box may be deleted from the form*



6. Provide a drawing showing the cross section of the dam at the maximum section indicating details and dimensions. The drawing should be drawn at a standard even scale.

See attached drawings of record submitted to Dam Safety in 2016, sheet 2 of 4.

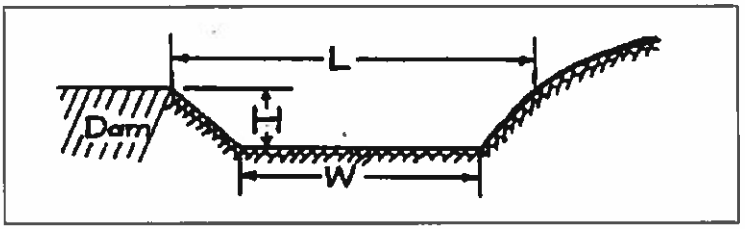
7. Describe the outlet works (size and type of the outlet conduit and location):

The primary outlet pipe is a 24" cmp encased in concrete, this runs from the stand pipe under the embankment out to the toe of the embankment at -4.53% slope. The stand pipe is a 30" cmp with the joint of the pipes encased in concrete with reinforcing rebar. The drain pipe is a 8" cmp that runs from the 8" gate valve at the upstream toe down through the embankment to the base of the stand pipe at 1.0% slope. See attached drawings of record, sheet 2 of 4.

The emergency spillway starts with a 10' wide grass lined trench with 3 to 1 cut side slopes. The start cimbs at 2.5% then levels off for a 30 foot long earthen weir, then drops at -1% where it enters a system of three 24" cmp culverts at a slope of -1.7% under the all season road that goes across the dam. The spillway below the dam has a 13 foot rip-rap pad at a slope of -2.1% then 32 feet at 0% slope. The final spillway length is at -6% and to daylight and is clear of the dam toe. See attached drawings of record, sheet 3 of 4.

8. Describe the emergency spillway (dimensions and location):

BOTTOM WIDTH (W)	TOP WIDTH (L)	SPILLWAY DEPTH (H)
10'	10'-40'	0'-4'



SECTION 5

CONDITIONS

All conditions contained in the permit, permit amendment, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits and any extension final orders contain any or all of the following dates; the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit or extension final order:

	Date from Permit	Date Accomplished*	Description of Actions Taken by Water User to Comply with the Time Limits
Issuance Date	12-14-2016		
Begin construction (A)	12-14-2021	8-29-2016	The owners complied with the condition by constructing the dam.
Complete construction (B)	N/A	11-17-2016	Dam Safety final inspection, the owners complied with condition.
Complete application of water (C)	12-14-2021	2-6-2017	The owners complied with the condition by storing water.

* must be within period between permit or any extension final order issuance and the date to completely apply water

2. Is there an extension final order(s)? YES **NO**

3. Measurement Conditions:

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? **YES** NO

If "NO", items b through f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion or appropriation.

b. Has a meter been installed? YES **NO**

c. Meter Information

POD/POA Name or #	Manufacturer	Serial #	Condition (working or not)	Current Meter Reading	Date Installed

If a meter has been installed, items d through f relating to this section may be deleted.

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? **YES** NO

e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

NAME	TITLE	APPROXIMATE DATE
Joel Plahn	Water Master	6-6-2016

f. Measurement Device Description

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED
Gate valve stem support elevations	Working	11-8-2017

Note: The first fill was done while using the approved gate valve stem as the staff gage, the owners later installed a typical staff gage.

4. Recording and reporting conditions

a. Is the water user required to report the water use to the Department? **YES** NO

If "NO", item b relating to this section may be deleted.

b. Have the reports been submitted? **YES** NO

If the reports have not been submitted, attach a copy of the reports if available.

5. Outlet Pipe

a. Is the water user required to install a minimum 8"outlet pipe/conduit? **YES** NO

If "NO", items b through c relating to this section may be deleted.

b. Has the outlet pipe been installed? **YES** NO

If "YES", items c relating to this section may be deleted.

c. Does the water user have other means to evacuate the reservoir? YES **NO**

DESCRIBE HOW THE WATER USER PLANS TO EVACUATE THE RESERVOIR	HAS THIS PLAN BEEN APPROVED BY THE DEPARTMENT?	BY WHOM?
	YES NO	

6. Fish Screening

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? YES **NO**

If "NO", items b through e relating to this section may be deleted.

Reminder: If fish screening devices were required, the COBU map must indicate their location in relation to the point of diversion.

b. Has the fish screening been installed? RECEIVED YES NO

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c. When was the fish screening installed?

DATE	BY WHOM

Reminder: If the permit or transfer final order was issued on or after February 1, 2011, the fish screen is required to be approved by the Oregon Department of Fish and Wildlife regardless of the rate of diversion.

d. If the diversion **involves a pump** *and* the **total** diversion rate of all rights at the point of diversion is less than 225 gpm (0.5 cfs):

Has the self-certification form previously been submitted to the Department? **NA** **YES** **NO**

- If not, go to https://www.oregon.gov/OWRD/Forms/Pages/default.aspx (search for ODFW Small Pump Screen Self Certification), complete and attach a copy of the self-certification form to this claim, and send a copy of it to the Oregon Department of Fish and Wildlife (ODFW).

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. The ODFW self certification form needs to have been previously submitted or be attached to this form.

e. If the diversion does **not involve a pump** *or* the **total** diversion rate of all rights at the point of diversion is 225 gpm (0.5 cfs) or greater:

- Has the ODFW approval been previously submitted? **NA** **YES** **NO**
- If not, contact and work with ODFW to ensure compliance. To demonstrate compliance, provide signed documentation from ODFW. A form is available at https://www.oregon.gov/OWRD/Forms/Pages/default.aspx

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. In order to receive a favorable approval, the ODFW/WRD "Fish Screen Inspection" form needs to have been previously submitted or be attached to this form.

7. By-pass Devices

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion? **YES** **NO**

If "NO", items b and c relating to this section may be deleted.

Reminder: If by-pass devices were required, the COBU map must indicate their location in relation to the point of diversion.

b. Have by-pass device been installed? **YES** **NO**

c. Describe the diversion works as related to whether a by-pass device is installed or unnecessary:

(Provide a letter from ODFW indicating the device is approved or is unnecessary. If there is no letter from ODFW, explain whether or not a by-pass device is necessary.)

DESCRIPTION (E.G. "ODFW HAS APPROVED THE BY-PASS DEVICE" OR "NO BY-PASS DEVICE IS NECESSARY BECAUSE THERE IS A DIRECT DIVERSION FROM THE STREAM VIA A PUMP ON RIVER LEFT STREAM BANK WITH FOOT VALVE DESCENDING DIRECTLY INTO NATURAL POOL.") IN ADDITION, YOU MAY ATTACH PHOTOS TO THIS CLAIM.	IF INSTALLED (DATE)	IF INSTALLED, BY WHOM
No by-pass device required. Direct runoff into reservoir.		

8. Other conditions required by permit, permit amendment final order, or extension final order

a. Was the water user required to restore the riparian area if it was disturbed? **YES** NO

b. Was a fishway required? **YES** NO

c. Was submittal of a letter from an engineer required prior to storage of water? **YES** NO

d. Was submittal of a water management and conservation plan required? YES **NO**

e. Other conditions? **YES** NO

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

a) **The riparian area disturbance was restored. In addition the owners are working with other agencies to improve stream habitat.**

b) **The permit required a fishway unless the ODFW granted a fish passage waiver. See attached document signed by Tom Murtagh of ODFW on February 3rd 2014.**

c) **The letter from the engineer was submitted. See attached copy of 'Report of Record'.**

d) **Other conditions, The permittee shall maintain the grass-lined channel for the spillway. The owners are aware of this condition and aware that this is important in the event of a major rain event.**

SECTION 6

ATTACHMENTS

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Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION

SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

The map was started with a survey of the boundary of the Hollis property. The boundary was copied into an Autocad drawing. The tax maps were inserted into the drawing and scaled to match the perimeter survey. Google air photos were downloaded, inserted and scaled to match the tax maps. USGS topo maps were downloaded, inserted and scaled to match the tax maps. The location of the dam and the shape of the reservoir were determined by the air photo.

Map Checklist

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OWRD

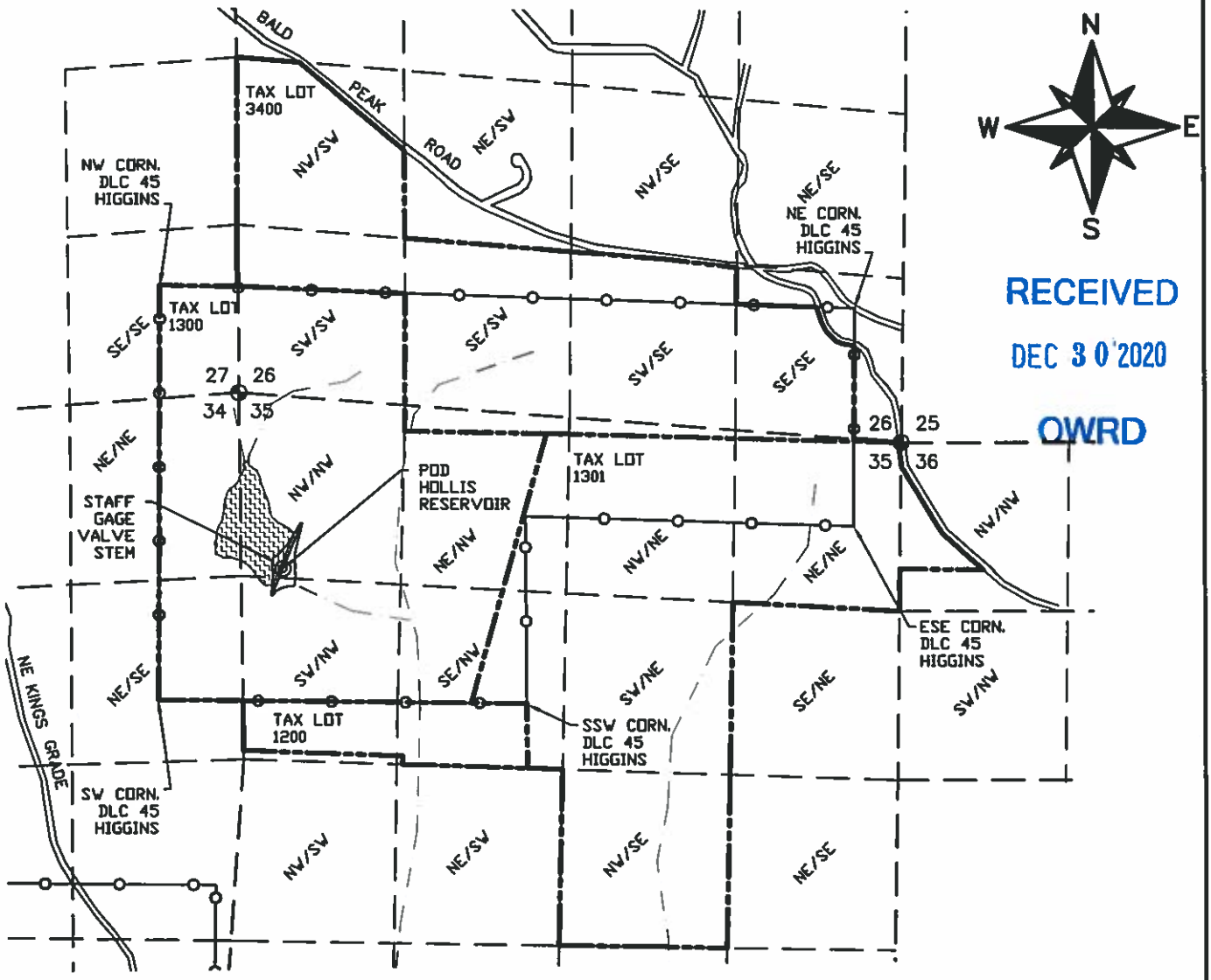
Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

- ☒ Map on polyester film.
- ☒ Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- ☒ Township, Range, Section, Donation Land Claims, and Government Lots
- ☐ If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- ☐ Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- ☒ Locations of meters and/or measuring devices in relationship to point of diversion
- ☐ Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- ☒ Point(s) of diversion or appropriation (illustrated and coordinates)
- ☒ Tax lot boundaries and numbers
- ☒ Source illustrated if surface water
- ☒ Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- ☒ Application and permit number or transfer number
- ☒ North arrow
- ☒ Legend
- ☒ CWRE stamp and signature

CLAIM OF BENEFICIAL USE MAP

TL3400, S26; TL 1300, 1301, 1200 S35; T2S, R3W, WM
YAMHILL COUNTY, OREGON. WILLAMETTE RIVER BASIN

APPLICATION R-87985,
PERMIT R-15182,
IN THE NAME OF
HOLLIS LAND AND TIMBER LLC



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1320 0 660 1320

1 inch = 1320 ft.

POD HOLLIS DAM LOCATED
345' WEST AND 1380' SOUTH
OF NW CORN. SEC. 35

CERTIFIED WATER RIGHT EXAMINER
#53,005
William L. Platz
May, 21 2001
STATE OF OREGON
EXPIRES 12/31/2021

LEGEND

- POD
- GOV. CORNER
- PROPERTY LINE
- DLC LINE
- 1/4-1/4 LINES
- CREEK LINES
- ROAD LINES

MAP BASE:
TAX MAPS; 2-3-35, 2-3-26
AND 2-3-34.
GOOGLE EARTH AERIAL PHOTO

THIS MAP WAS PREPARED FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF A WATER RIGHT ONLY AND IS NOT INTENDED TO PROVIDE LEGAL DIMENSIONS OR LOCATION OF PROPERTY OWNERSHIP LINES.

2318-B PACIFIC AVENUE
FOREST GROVE, OR 97116
PHONE: 503-357-5717

Stuntzner Engineering & Forestry, LLC

Project: 320-022
Drawing: Hollis Res COBU.dwg
By: WLF
Checked by: WLF
Date: 11-13-20

CLAIM OF BENEFICIAL USE MAP

TL3400, S26; TL 1300, 1301, 1200 S35; T2S, R3W, WM
YAMHILL COUNTY, OREGON. WILLAMETTE RIVER BASIN

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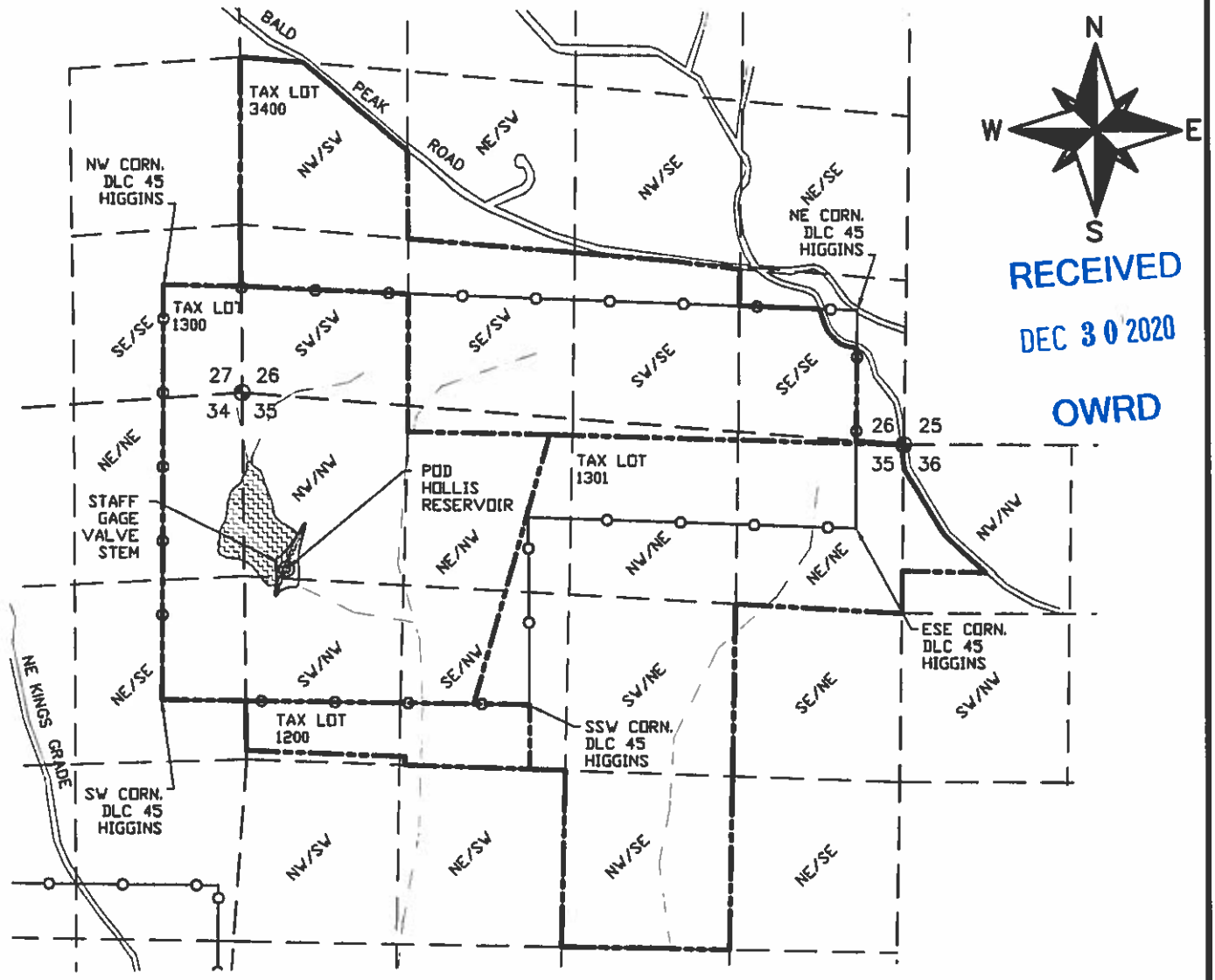
HOLLIS LAND AND TIMBER LLC



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OF NW CORN. SEC. 35

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#53,005
William L. Matz
May, 21 2001
STATE OF OREGON
EXPIRES 12/31/2021

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TL3400, S26; TL 1300, 1301, 1200 S35; T2S, R3W, WM
YAMHILL COUNTY, OREGON. WILLAMETTE RIVER BASIN

APPLICATION R-87985,
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IN THE NAME OF
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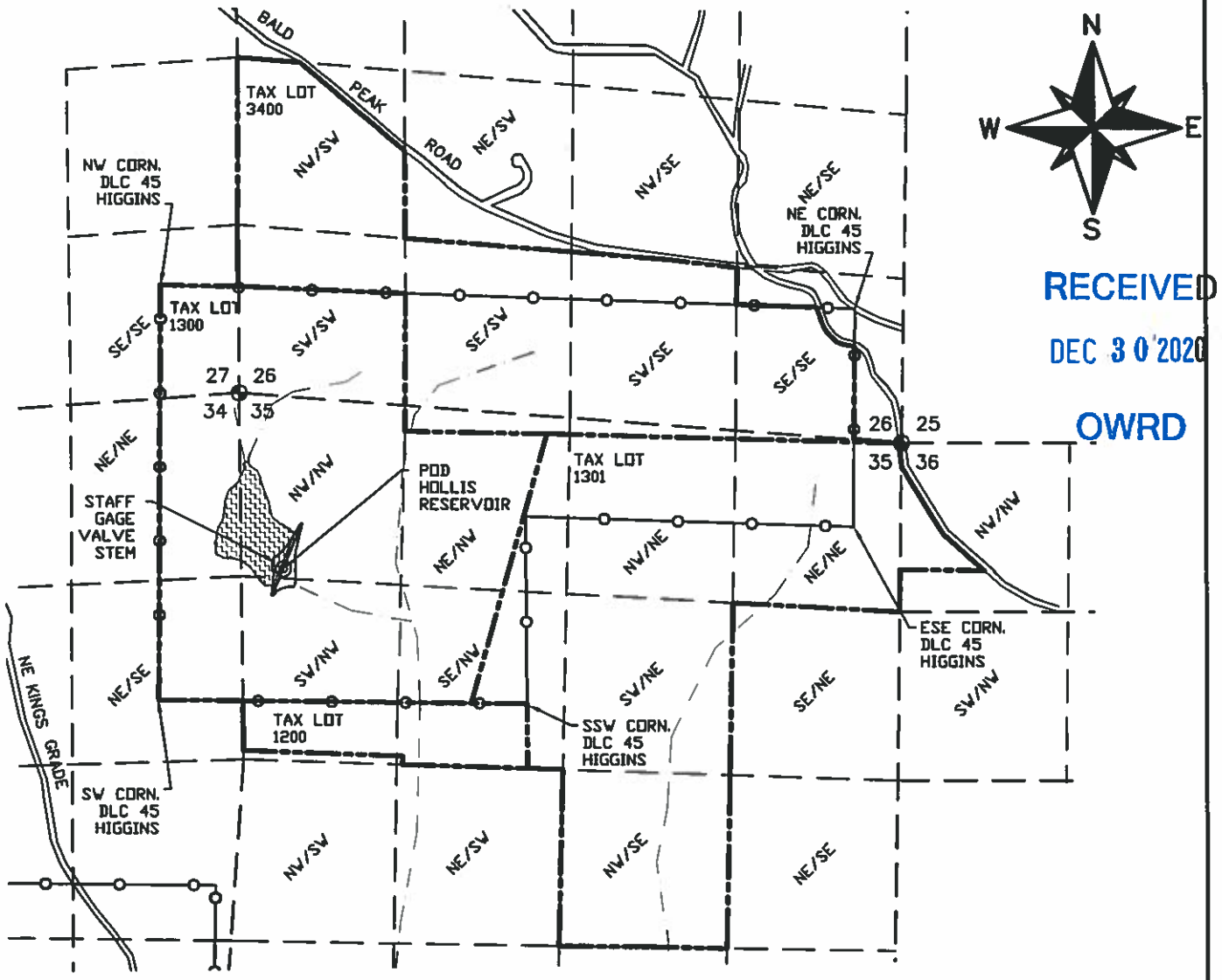

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CERTIFIED WATER RIGHT EXAMINER
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EXPIRES 12/31/2021

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Project: 320-022
Drawing: Hollis Res COBU.dwg
By: WLF
Checked by: WLF
Date: 11-13-20

RECEIVED
DEC 30 2020
OWRD

Attachments for:

Claim of Beneficial Use
Application R-87985, Permit R-15182

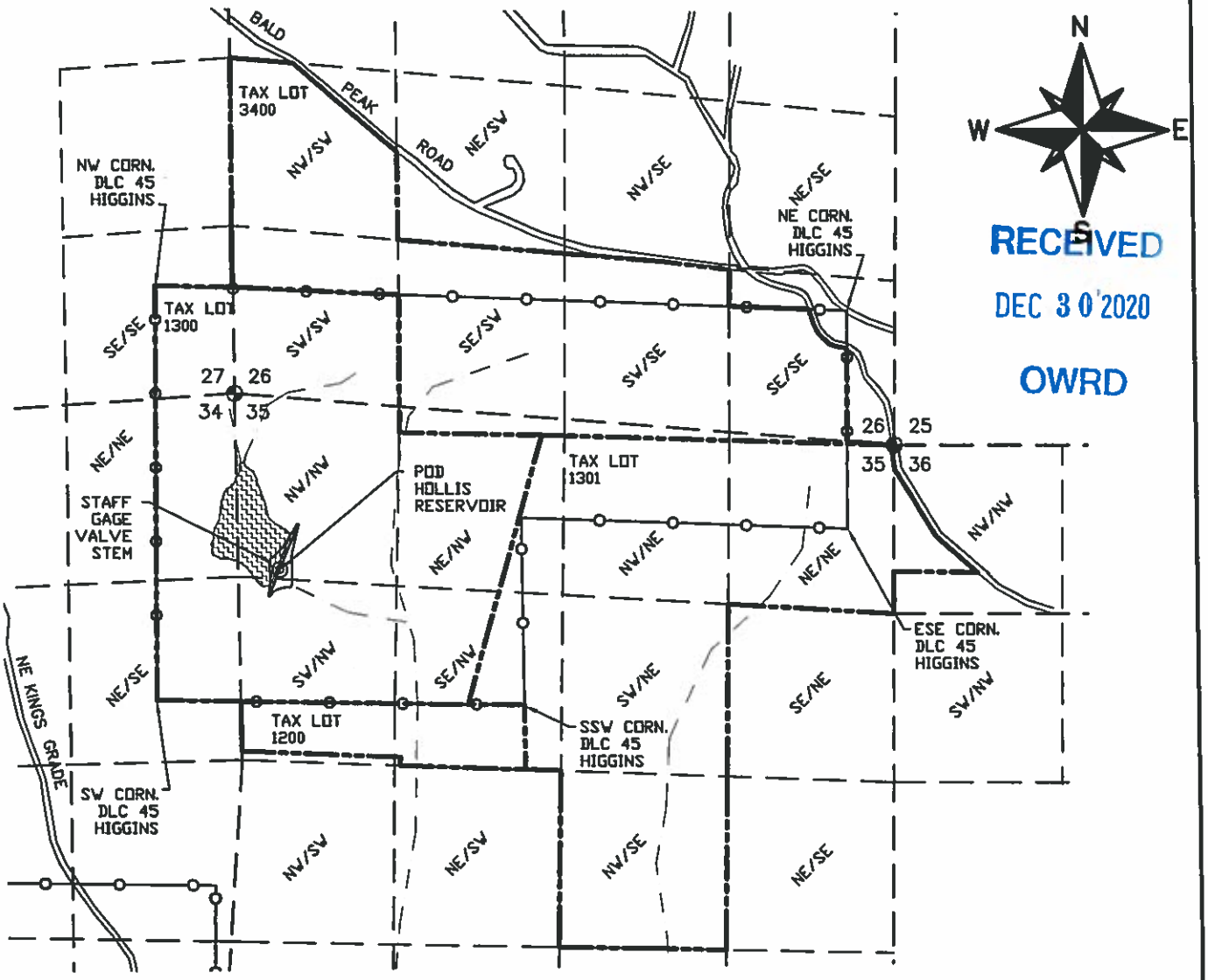
INDEX

Prepared for Hollis Land & Timber by:
Stutnzner Engineering & Forestry
2318-B Pacific Avenue
Forest Grove, OR 97116
Office phone 503-357-5717
billflatz@stuntzner.com

CLAIM OF BENEFICIAL USE MAP

TL3400, S26; TL 1300, 1301, 1200 S35; T2S, R3W, WM
YAMHILL COUNTY, OREGON. WILLAMETTE RIVER BASIN

APPLICATION R-87985,
PERMIT R-15182,
IN THE NAME OF
HOLLIS LAND AND TIMBER LLC



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#53,005
William L. Flatz
May, 21 2001
STATE OF OREGON

EXPIRES 12/31/2021

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PHONE: 503-357-5717

Stuntzner Engineering & Forestry, LLC

Project: 320-022
Drawing: Hollis Res COBU.dwg
By: WLF
Checked by: WLF
Date: 11-13-20

STATE OF OREGON

COUNTY OF YAMHILL

PERMIT TO CONSTRUCT A RESERVOIR AND STORE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

HOLLIS LAND AND TIMBER LLC
13984 CHELSEA DR
LAKE OSWEGO, OR 97035

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: R-87985

SOURCE OF WATER: UNNAMED STREAM, A TRIBUTARY OF BRYAN CREEK

STORAGE FACILITY: HOLLIS RESERVOIR

PURPOSE OR USE OF THE STORED WATER: STORAGE FOR IRRIGATION, AESTHETICS, FIRE PROTECTION, RECREATION, AND WILDLIFE

MAXIMUM VOLUME: 100.0 ACRE FEET

WATER MAY BE APPROPRIATED FOR STORAGE DURING THE PERIOD: NOVEMBER 1 THROUGH JUNE 30

DATE OF PRIORITY: JUNE 11, 2014

THE MAXIMUM HEIGHT OF THE DAM SHALL NOT EXCEED 38.0 FEET

DAM LOCATION: SW ¼ NW ¼, SECTION 35, T2S, R3W, W.M.; 1370 FEET SOUTH AND 340 FEET EAST FROM NW CORNER, SECTION 35

THE AREA TO BE SUBMERGED BY THE RESERVOIR IS LOCATED AS FOLLOWS:

NE ¼ NE ¼
SECTION 34

NW ¼ NW ¼
SW ¼ NW ¼
SECTION 35
TOWNSHIP 2 SOUTH, RANGE 3 WEST, W.M.

Measurement devices, and recording/reporting of annual water storage conditions:

A. Before water use may begin under this permit, a staff gage that measures the entire range and stage between full reservoir level and dead-pool storage must be installed in the reservoir. If no dead-pool, the gage must measure the full depth of the reservoir. The permittee shall maintain the device in good working order.

B. The permittee shall allow the watermaster access to the device; provided however, where any device is located within a private structure, the watermaster shall request access upon reasonable notice.

C. The permittee shall keep a complete record of the volume of water stored each month, and shall submit a report which includes water-storage measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water-use information, including the place and nature of use of water under the permit.

D. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

The storage of water allowed herein is subject to the installation and maintenance of an outlet pipe (with a minimum diameter of 8" for any in-channel reservoir). This requirement may be waived if the Department determines other means have been provided to evacuate water when necessary.

The permittee shall pass all live flow outside the storage season described above.

The Director may require the user to measure inflow and outflow, above and below the reservoir respectively, to ensure that live flow is not impeded outside the storage season. Measurement devices and their implementation must be acceptable to the Director, and the Director may require that data be recorded on a specified periodic basis and reported to the Department annually or more frequently.

This permit allows an annual appropriation (not to exceed the specified volume). This permit does not provide for the appropriation of water for out-of-reservoir uses, the maintenance of the water level, or

maintaining a suitable freshwater condition. If any water is to be used for out-of-reservoir purposes, a secondary water right is required. If any additional live flow is to be appropriated to maintain either the water level or a suitable freshwater condition, an additional water right is required.

The permittee shall not construct, operate or maintain any dam or artificial obstruction to fish passage in the channel of the subject stream without providing a fishway to ensure adequate upstream and downstream passage for fish, unless the permittee has requested and been granted a fish passage waiver by the Oregon Fish and Wildlife Commission. The permittee is hereby directed to contact an Oregon Department of Fish and Wildlife Fish Passage Coordinator, before beginning construction of any in-channel obstruction.

Notwithstanding that Oregon Department of Fish and Wildlife has made a determination that fish screens are not necessary at the time of permit issuance, the permittee may be required in the future to install, maintain, and operate fish-screening devices to prevent fish from entering the proposed diversion.

The permittee shall maintain the grass-lined channel for the spillway.

If reservoir construction is greater to or equal to 1.0 acre in extent, permittee must contact Department of Environmental Quality (DEQ) (Kristy Sewell 541-686-7858) to determine if a DEQ 1200 C permit is required.

DAM CONDITIONS

All construction shall be performed under the supervision of the engineer of record. If the engineer of record cannot supervise construction, the Water Resources Department Dam Safety Engineer must be notified in writing, prior to construction activity, with the name of the engineer supervising construction.

No embankment fill shall be placed until preparation of the foundation and the excavation of the core trench has been completed and examined in entirety by the engineer of record, or by the Water Resources Dam Safety Engineer, or both.

The constructed works shall conform to the approved plans and specifications on file with the Water Resources Dam Safety Program. The engineer of record shall notify the Water Resources Dam Safety Program before making any significant change to the approved design prior to or during construction.

No water shall be stored until the Water Resources Department receives written confirmation from the engineer of record that construction has been completed as demonstrated by "as-built" drawings submitted by the engineer of record. A revised reservoir capacity graph must accompany the engineer's letter of completion.

Routine maintenance shall be completed as described 690-020-0250. This includes, but is not limited to, brush and tree removal and mowing or other control of other vegetation on the embankment and spillway; removal of burrowing animals and filling burrows; control of surface erosion; maintenance of freeboard and adequate crest width; ensuring nothing reduces spillway capacity; at least annual cycling of all valves, with lubrication as necessary; and ensuring cracked concrete structures have been properly patched, sealed, caulked, or replaced to prevent deterioration.

The spillway shall not be altered without written approval from the State Engineer.

Routine repair or replacement of defective or worn out equipment (including but not limited to gates, valves, and conduits) shall be completed when operation of gates or valves becomes difficult, or if there is potential for water leakage, or other condition affecting the safety of the structure.

The dam shall not be modified to increase water storage or reduce safety of the dam. Any modification that would increase storage shall require a new water right, design by an engineer, and approval by the State Engineer.

No valve shall be installed at the downstream end of the low level conduit, and the low level conduit shall not be operated in a pressurized condition unless approved plans and specifications include specifics for pressurized operations, including an operations manual and special inspections as necessary, of pressurized conduits for the dam.

Any new or muddy leakage, overtopping of the dam, or other emergency condition shall be immediately reported to the State Engineer.

STANDARD CONDITIONS

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

If the riparian area is disturbed in the process of developing a point of diversion, the permittee shall be responsible for restoration and enhancement of such riparian area in accordance with ODFW's Fish and Wildlife Habitat Mitigation Policy OAR 635-415. For purposes of mitigation, the ODFW Fish and Wildlife Habitat Mitigation Goals and Standards, OAR 635-415, shall be followed.

The use may be restricted if the quality of the source stream or downstream waters decreases to the point that those waters no longer meet state or federal water quality standards due to reduced flows.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water allowed herein may be made only at times when sufficient water is available to satisfy all prior rights, including prior rights for maintaining instream flows.

Construction of the water system shall begin within five years of the date of permit issuance. The deadline to begin construction may not be extended. This permit is subject to cancellation proceedings if the begin construction deadline is missed.

The permitted volume of water shall be stored within five years of the date of permit issuance. If additional time is needed, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after storage of water, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner.

Issued DECEMBER 14 2016

E. Timothy Wallin

E. Timothy Wallin, Water Rights Program Manager
for Thomas M. Byler, Director

WATER RIGHTS APPLICATION MAP

TAXLOTS: 3400, SECTION 26; &
1300, 1301 & 1200 SECTION 35; T2S, R3W, WM
YAMHILL COUNTY, OREGON
WILLAMETTE RIVER BASIN

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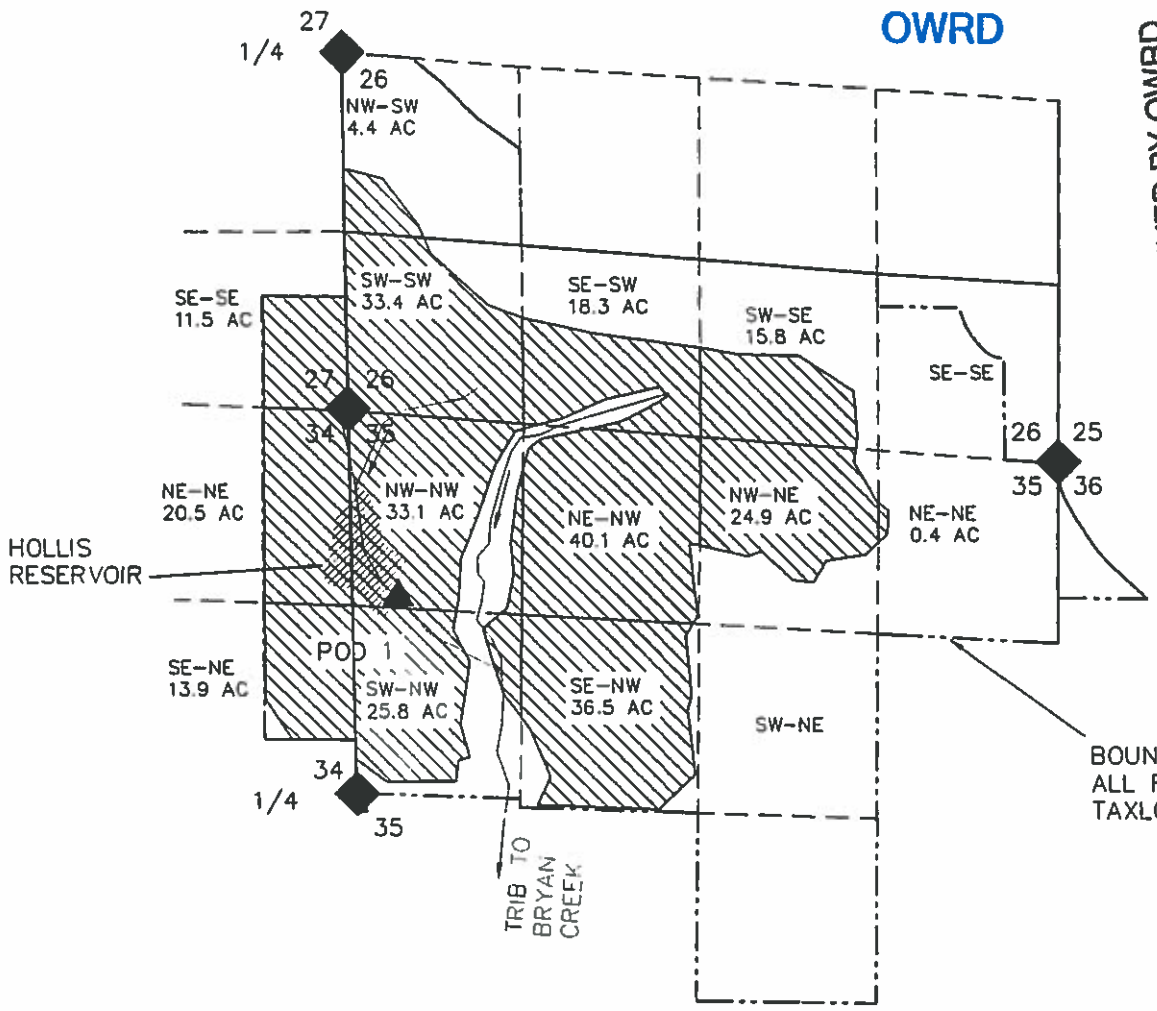
RECEIVED BY OWRD
JUN 11 2014
SALEM, OR



LEGEND:

- SECTION CORNER or 1/4 CORNER
- POINT OF DIVERSION (POD)
- PROPERTY LINE
- 1/16TH LINE
- PROPOSED IRRIGATION AREAS

POD 1 IS 1370 FT SOUTH AND 340 FEET EAST OF NE CORNER S35

MAP BASE:
COUNTY SURVEY RECORD CSP-10277 AND SITE SPECIFIC AERIAL PHOTO

1320 0 660 1320
1 inch = 1320 ft.

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PREPARED FOR:
HOLLIS LAND & TIMBER

Stuntzner Engineering & Forestry, LLC

Project: 313081
Drawing: 3130811J-WRAppl.dwg
By: EAU
Checked by: EAU
Date: 27MAY2014

R-87985

LAND SURVEYING · PLANNING · ENGINEERING · WATER RIGHTS · FORESTRY · GPS & GIS

Stuntzner Engineering & Forestry, LLC

TELEPHONE (503) 357-5717
FAX (503) 357-5698
EMAIL:
firstnamelastname@stuntzner.com
2137 19th Avenue
Forest Grove, OR 97116

COOS BAY - FOREST GROVE - DALLAS - BROOKINGS

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ODFW & STUNTZNER FISH PRESENCE FIELD VISIT NOTES

PROJECT NAME: Hollis Lower Dam OWNER NAME: Hollis Land & Timber, LLC

LATITUDE: 45-21-28.7 LONGITUDE: 123-01-47.5 WGS 84

TAXLOT LOCATION: SECTION 35, T2S, R3W, TAX LOT 1300

WATER RIGHT APPLICATION NUMBERS: N/A

WATER RIGHT PERMIT NUMBERS: N/A

PROJECT DESCRIPTION: Proposed Dam

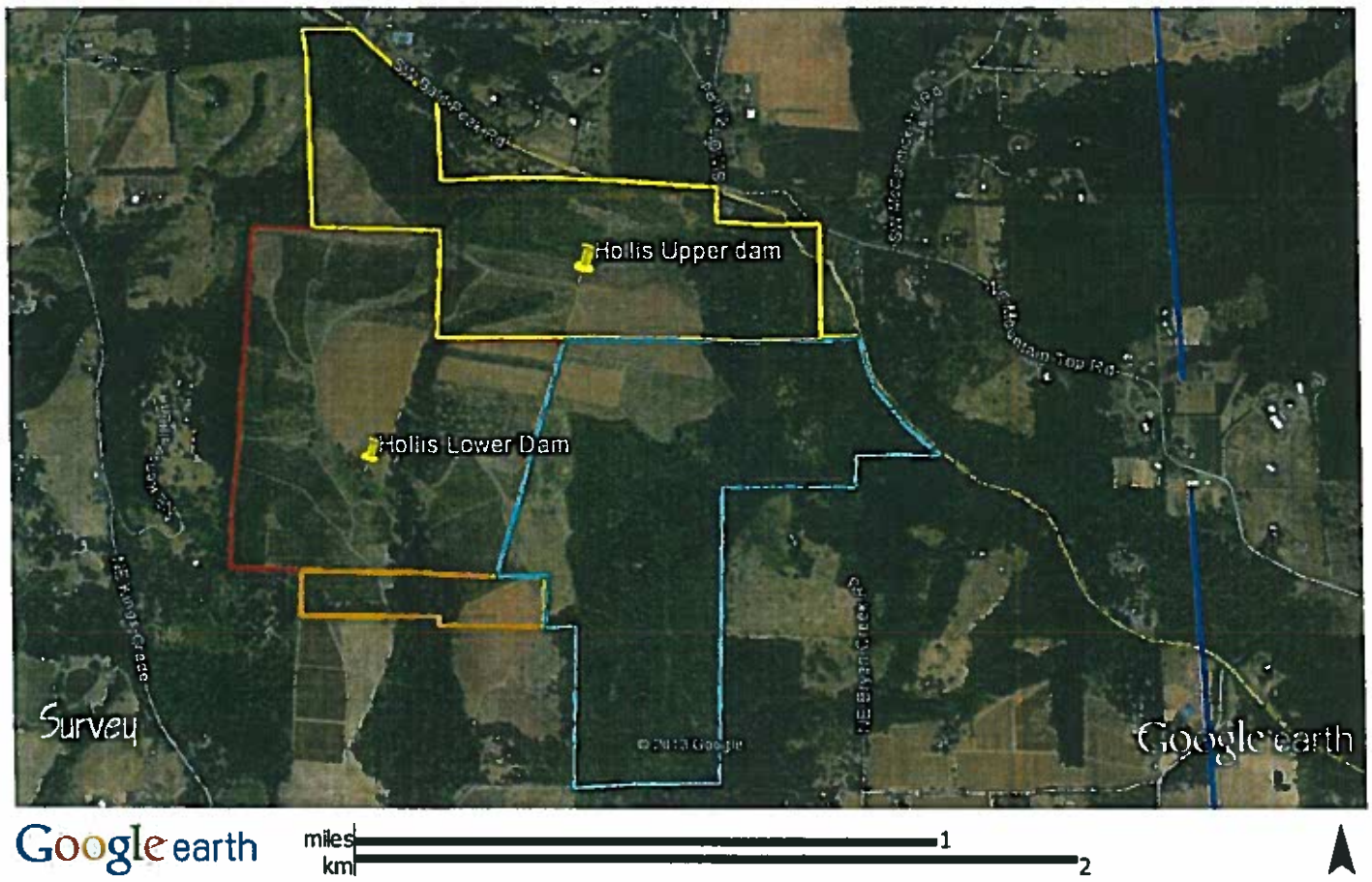
ATTACHED: WATER RIGHT MAP ____ USGS MAP X PHOTOS X

RESULTS:
DAM: PASSAGE NEEDED? YES or (NO) MORE INFO NEEDED? No

DIVERSION: PASSAGE NEEDED? YES or NO MORE INFO NEEDED? No

ODFW COMMENTS & NOTES: Based on a site survey of the project area as defined above, on February 3, 2014, ODFW confirms that Native migratory fish are not present in the reach of stream at and above the proposed dam site. Therefore, fish passage will not be required ~~should~~ in association with construction and development of the proposed dam and impoundment.

by Tom Murtagh date 3 Feb 2014
ODFW Representative Field visit



Google earth

miles 1
km 2

LAND SURVEYING PLANNING ENGINEERING WATER RIGHTS FORESTRY GPS & GIS

Stuntzner Engineering & Forestry, LLC

TELEPHONE (503) 357-5717
CELL (503) 939-8381
FAX (503) 357-5698
billflatz@stuntzner.com

2137 19TH Avenue
FOREST GROVE, OREGON 97116

COOS BAY - FOREST GROVE – DALLAS – JUNCTION CITY

REPORT OF RECORD

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OWRD

HOLLIS RESERVOIR

for

Hollis Land & Timber, LLC
13894 Chelsea Drive
Lake Oswego, OR 97035

Property Address:
17940 Kings Grade Road
Newberg, OR 97132

Property Location:
Township 2 South, Range 3 West,
Section 26, Tax Lot 1300, W.M.

EXPIRES 12/31/17

11-21-16

The drawings and specifications for the dam were prepared by Stuntzner Engineering and Forestry, the Forest Grove, Oregon office. The topographic site map for the site drawings was prepared by 3Di, Geoterra Mapping Group. Stuntzner Engineering & Forestry provided the construction stakeout for the dam, construction observation, soil testing, erosion control monitoring and the record drawing topographic survey after the construction work was completed.

The water right Application number for the reservoir is: File # R-87985.
The final order was issued approving the permit on September 11th 2015.

The construction drawings for this project were revised July 14th, 2016, and submitted to Dam Safety, they consist of four 22"x 34" sheets. The drawings and specifications were approved prior to the construction on July 25th, 2016 by Oregon Water Resources Department (OWRD) Dam Safety as required for a dam of this height and storage capacity.

The contractor for the project was Pihl Excavating, 41660 NW Sunset Highway, Banks, OR 97106, CCB#121460. Construction observation, field moisture and density testing, and construction staking were provided by Stuntzner Engineering & Forestry.

Construction began on August 29th, 2016. On September 2nd, 2016 Stuntzner met on site with OWRD's Dam Safety engineer, Keith Mills, and Dam Safety coordinator Tony Janicek. The owner Zach Kramer. From, Kane Environmental in Portland geologist David Rankin. From Pihl Excavating, Matt Pihl, Stuart Wurdinger and Randy Landers. The purpose of this meeting was to inspect the over excavated creek line referred to as the 'muck trench' and the core trench before any material was compacted. Both the core trench and muck trench were approved verbally by OWRD for backfill.

The contractor was experienced in earth moving, grading, and construction of earthen dams. This experience was helpful for this project and the contractor was able to successfully complete the project in a short period of time. The contractors crew was good to work with and we worked together to monitor the moisture in the borrow material.

The contractor had three self-loading rubber tired scrapers to haul fill. Compaction was performed with two roller compactors, a Cat CP-563E pad foot roller and a Cat 825B sheepsfoot compactor. Also utilized on site were two excavators, two cats, a tractor with a disc, multiple small tractors and a grader. A water truck was utilized for dust control.

Site visits were made every day by the engineer or as requested by the contractor or owner during the embankment construction. A total of 27 site visits were made during 30 day embankment construction period. During the site visits, 53 density and/or moisture tests were performed by the engineer.

Laboratory sampling completed during the design phase adequately reflected most of the borrow materials encountered. There was a small amount of slightly different material within the borrow area. The embankment was constructed with a mix of the materials. I was on site daily and monitored the moisture content and density. The embankment was generally so hard that it was difficult to dig and scrape more than three inches to take a sample. At the end of the construction I started carrying a hand pick to help to dig for the samples.

All of the borrow material for construction of the dam was removed from within the reservoir area. Foundation and borrow area stripping materials were placed in a location west of the reservoir area, on the owners property.

On November 8th, 2016 the installation of the gate valve was completed. The valve is ready to be closed to store water. On November 17th, we met on site with the owner Zach Kramer and Tony Janicek with Dam Safety for a final inspection.

The dam was constructed essentially as shown on the drawings and specifications with changes noted below. Drawings of record have been prepared to show the changes made during construction. These drawings are dated 11/21/2016 and labeled 'Drawings of Record'. They consist of four 22"x 34" sheets.

CONSTRUCTION CHANGES:

1. While stripping the top soil, multiple wet patches developed along the old drainage channel under the dam footprint. The wet channel was found to have a weak saturated soil that we determined was inadequate to build a dam over. After consulting with David Rankin of Kane Environmental and notifying Dam Safety, we over excavated the weak soils along the channel.

2. The conduits for this dam were not manufactured to the exact specifications. The result is an additional foot of 8" drain conduit, an additional foot of 24" outlet conduit and the normal pool is elevation 753.55' up 0.1' from design.

3. Due to a very long manufacturing and shipping time the specified 8" Waterman gate valve was replaced with an equivalent Fresno 8" gate valve.

4. The contractor forgot to place the specified geotextile fabric under the rip rap at the outlet plunge pool. I did not have them remove the rip rap and place the fabric for the following reasons. First, most of the plunge pool was excavated out then backfilled and compacted with the embankment material we believe that this will not erode. Second, they did such a good job placing the rip rap that I did not want to risk that the second attempt would be as well done. Third, if there is any problem it would be easy to add some smaller rock or place a layer of grout in between the rip rap. We will monitor the first fill of the reservoir and make changes only if needed.

5. The contractors became concerned with the possibility of excessive runoff down a natural chute on the West side of the dam. In order to avoid possible erosion along the toe of the dam we added a diversion ditch above the southwest end of the dam to redirect any runoff from above into the pool side of the dam.

The as-built storage at normal pool elevation 753.55' is 75.90 acre-feet, the pool area is 7.65 acres.

Prepared by,
Stuntzner Engineering & Forestry, LLC

RECEIVED
DEC 30 2020
OWRD

Bill Flatz, PE, GE, CWRE, CESCL

Nick Blundon

From: PLAHN Joel M <joel.m.plahn@state.or.us>
Sent: Monday, June 06, 2016 3:18 PM
To: Nick Blundon
Cc: Bill Flatz
Subject: RE: Hollis Reservoir Staff Gauge - App #s R-87985 & S-87986

Using the gate stem support as the staff guage will work for Application R-87985.

Thanks, Joel Plahn

District 16 Watermaster
503-986-0889 Office
503-508-2394 Cell
725 Summer St NE, Suite A
Salem, OR 97301

From: Nick Blundon [mailto:nblundon@stuntzner.com]
Sent: Friday, June 03, 2016 11:16 AM
To: PLAHN Joel M
Cc: Bill Flatz
Subject: Hollis Reservoir Staff Gauge - App #s R-87985 & S-87986

Joel –
After our phone conversation, we are requesting an alternative staff gauge from the typical standing staff gauge plate.

We are requesting to use the dam's gate stem supports as the staff gauge. We are required to survey the dam for as-builts after it is constructed. While conducting this survey, we will tie the base and tops of each gate stem support along the upstream centerline of the dam. We will attach weather-resistant labels to each gate stem support, and provide a key to the owner so they are capable of determining the amount of storage related to the water surface level.

This alternative staff gauge was accepted for our previous earthen dam per App R-86731 at 17155 NE Woodland Loop Road, Yamhill Oregon.

I have attached two photos to provide you with a visual. Please provide confirmation that this is an acceptable staff gauge. We will include this in our report to Oregon Dam Safety.
Thanks,

Nick Blundon
Stuntzner Engineering & Forestry, LLC
Office: 503-357-5717
Fax: 503-357-5698
2137 19th Ave.
Forest Grove, Or. 97116

Water Use Report Based on Water Right

Permit: R 15182 *
HOLLIS LAND AND TIMBER LLC 3 MONROE PARKWAY P-425 LAKE OSWEGO, OR 97035

Records per page: 10 View All

Acre-feet (AF) of Water Used

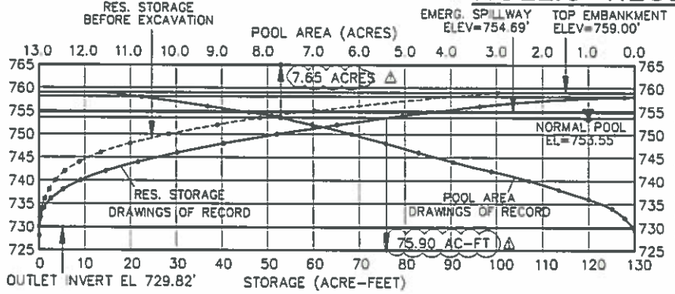
Water Year*	Report ID	Facility	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Water Used	Irrigated Acres
2020	67559	HOLLIS RESERVOIR (STORAGE)	22.00	28.00	32.00										32.00	
2019	67559	HOLLIS RESERVOIR (STORAGE)	0.00	10.00	51.00	68.00	74.00	74.00	74.00	73.00	72.00	51.00	36.00	24.00	74.00	
2018	67559	HOLLIS RESERVOIR (STORAGE)	24.00	74.00	74.00	74.00	73.00	74.00	73.00	70.00	66.00	8.00	0.00	0.00	74.00	
2017	67559	HOLLIS RESERVOIR (STORAGE)	0.00	0.00	0.00	75.00	75.00	75.00	75.00	75.00	64.00	50.00	38.00	31.00	75.00	

*The water year is named for the calendar year in which it ends. Example: the 2018 water year begins Oct. 1, 2017 and ends Sep. 30, 2018.

- The Water Resources Department makes reasonable efforts to screen the data for quality control; however, the Department cannot accept responsibility for errors, omissions, or accuracy of the information. Notification of any errors is appreciated. Send notifications to wateruse@wrd.state.or.us or call (503) 986-0905.
- Water use is reported by point of diversion (POD), rather than by water right.
- If a POD is shared with multiple water rights, it is not feasible to separate out the amount used under the water right being queried from water used by other rights using this same POD.
- Monthly amounts indicate:
  - For diverted rights, the total amount diverted during the month;
  - For storage rights, the amount generally stored in the reservoir/pond during the month, as represented by the volume of water impounded on approximately the same day each month.
- Water use amounts have all been converted to "acre-feet" (AF), regardless of the original measurement unit reported. One AF is the volume of water that will cover an acre of ground one foot deep = 325,850 gallons.
- Zeroes indicate that a report was received stating that no water was used during those months; if a year is not listed, no report of water use was received for that year.

HOLLIS RESERVOIR – DRAWINGS OF RECORD COVER SHEET & SITE PLAN

17940 KINGS GRADE ROAD, NEWBERG OREGON 97132, TAX LOTS 1300, 1301, AND 1200 OF T2S, R3W, SECTION 35, W.M.
TAX LOT 3400 OF T2S, R3W, SECTION 26, W.M.

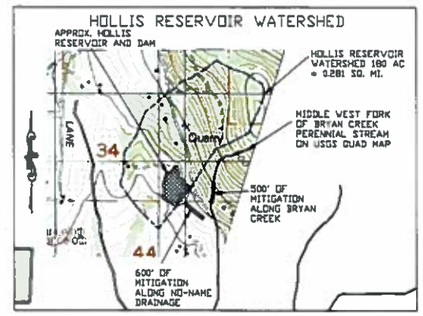


STAGE STORAGE CURVE

Hollis Reservoir Hydrology Summary

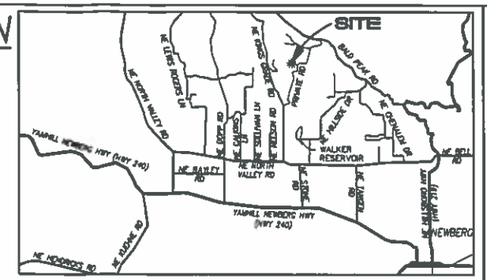
Watershed area = 160 ac (0.281 sq.mi.) Weighted RCN = 71 Stand pipe = 30" cmp
Storm distribution = Type IA Time of concentration = 24 min Outlet pipe = 24" cmp

Storm Freq. Years	Precip. in	AMC #	Peak Inflow cfs	Peak Riser flow cfs	Head in Riser ft	Peak Spillway cfs	Spillway CMP Peak Depth ft	Spillway CMP Ave. Vel. fps	Total Outflow cfs	Dam Freebrd ft	Max. Pool El. ft
5	2.0	2	3.35	2.64	0.00	0.00	-1.03	0.00	2.64	5.24	753.78
10	3.4	2	28.86	9.73	0.45	0.00	-0.83	0.00	9.73	4.93	754.07
25	3.8	2	37.44	12.13	0.80	0.00	-0.54	0.00	12.13	4.84	754.16
50	4.4	2	54.87	16.36	1.10	0.00	-0.41	0.00	16.36	4.71	754.29
100	4.7	2	64.16	19.00	1.86	0.00	-0.33	0.00	19.00	4.63	754.37
500	5.3	2	83.79	24.06	2.55	0.00	-0.11	0.00	24.06	4.41	754.59
100	4.7	3	133.73	39.71	3.80	7.63	0.56	3.76	37.31	3.87	755.13
500	5.3	3	158.62	31.96	4.40	14.97	0.79	3.16	46.93	3.62	755.38
100	4.7	4	184.57	35.61	5.80	31.25	1.31	3.47	66.86	3.18	755.82
500	5.3	4	208.52	37.28	6.10	40.88	1.47	3.63	78.16	2.96	756.04



BASIN MAP

SCALE: NTS



VICINITY MAP

SCALE: NTS

CONTACTS

OWNER/APPLICANT
HOLLIS LAND AND TIMBER, LLC.
13984 CHELSEA DR.
LAKE OSWEGO, OR 97035
CONTACT: DAVID ANDERSON; ZACH KRAMER
(805) 680-7741; (503) 385-3639

CONTRACTOR
PIHL, INC.
41660 NW SUNSET HWY
BANKS, OR 97106
CONTACT: STUART WURDINGER
(503) 324-6210 OFFICE
(503) 713-7555 STUART'S CELL
CCB#: 121460

CIVIL ENGINEER / GEOTECHNICAL ENGINEER / SURVEYOR
STUNTZNER ENGINEERING AND FORESTRY, LLC
ATTN: BILL FLATZ – PE, CWRE, CESCL; NICK BLUNDON – PE, CESCL
2137 19TH AVENUE
FOREST GROVE, OREGON 97116
(503) 357-5717 OFFICE
(503) 357-5698 FAX

RECEIVED
DEC 30 2020
OWRD

BENCHMARK

HORIZONTAL DATUM: OCRS PORTLAND ZONE
VERTICAL DATUM: NAVD 1988

ELEVATIONS ON THIS MAP HAVE BEEN PHOTOGRAMMETRICALLY COMPILED FROM 9.838CM/0.32FT GSD 100.500 MM C.F.L. DIGITAL AERIAL PHOTOS TO MEET NATIONAL MAP ACCURACY STANDARDS (NMAS) AT 1"=100' SCALE BY 3DI GEOTERRA MAPPING GROUP.

THE BENCHMARK ELEVATION IS THE NORTHWEST CORNER OF SECTION 35 LOCATED AT A BEARING AND DISTANCE OF N15°20'39"W 1,371.58' FROM THE CENTERLINE OF THE PROPOSED DAM.
ELEVATION = 775.17'

THE PROPOSED DAM IS LOCATED AT APPROXIMATELY:
LATITUDE 45°21'29.56"N
LONGITUDE 123°01'50.48"W

SUMMARY OF DESIGN QUANTITIES

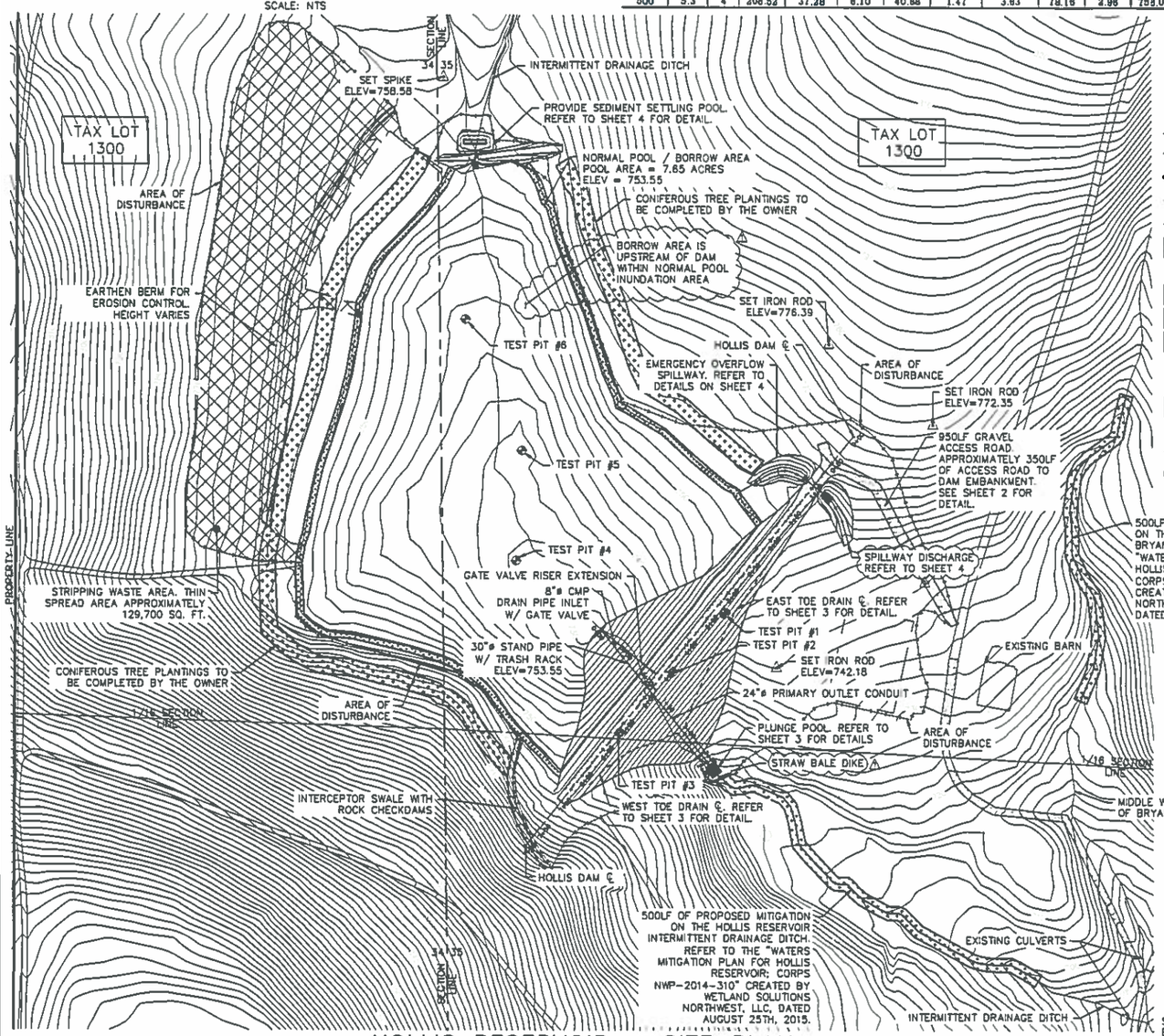
1.	ACTUAL AREA OF DISTURBANCE	18.7 AC
2.	ACTUAL STRIPPING WASTE AREA	3.0 AC
3.	DESIGN STRIPPING OF DAM FOUNDATION AND POOL	14,250 CY*
4.	DESIGN STRIPPING OF ACCESS ROAD	350 CY*
5.	DESIGN CUTOFF TRENCH EXCAVATION	1,850 CY*
6.	DESIGN "MUCK TRENCH" EXCAVATION	1,700 CY**
7.	DESIGN DAM EMBANKMENT EARTHWORK	28,650 CY*
8.	DESIGN EMERGENCY SPILLWAY EARTHWORK	750 CY*
9.	DESIGN SEDIMENT SETTLING POOL EARTHWORK	80 CY*
10.	ACTUAL 8"ø CMP DRAIN CONDUIT	80 LF
11.	ACTUAL 24"ø CMP PRIMARY OUTLET CONDUIT	197 LF
12.	ACTUAL 24"ø CMP SPILLWAY PIPE	120 LF
13.	ACTUAL 30"ø CMP STAND PIPE	28.35 LF
14.	ACTUAL 8" PERFORATED HEAVY DUTY PVC	440 LF
15.	ACTUAL 8" SCHED. 40 PVC	136 LF
16.	DESIGN 3,000 PSI CONCRETE	95 CY
17.	DESIGN ASTM C-33 (CONCRETE) SAND	110 CY
18.	DESIGN ODOT CLASS 50 RIPRAP	10 CY
19.	DESIGN ODOT CLASS 100 RIPRAP	15 CY
20.	DESIGN DITCH/CREEK MITIGATION	1,100 LF
FOR DAM:		
21.	DESIGN 3/4"-0" CRUSHED ROCK (ROAD)	55 CY
22.	DESIGN 3/4"-0" CRUSHED ROCK (PIPE BACKFILL)	30 CY
23.	DESIGN 1-1/2"-0" CRUSHED ROCK (ROAD)	280 CY
24.	DESIGN 1-1/2"-3/4" DRAIN ROCK, NO FINES	100 CY
25.	DESIGN NON-WOVEN GEOTEXTILE FABRIC (TOE DRAINS)	830 SQ YRD
26.	DESIGN NON-WOVEN GEOTEXTILE FABRIC (RIPRAP)	65 SQ YRD
27.	DESIGN WOVEN GEOTEXTILE FABRIC (DAM ACCESS ROAD)	930 SQ YRD
FOR ROAD:		
28.	DESIGN 3/4"-0" CRUSHED ROCK	50 CY
29.	DESIGN 1-1/2"-0" CRUSHED ROCK	250 CY
30.	DESIGN WOVEN GEOTEXTILE FABRIC	900 SQ YRD
TOTAL (DAM + ROAD):		
31.	DESIGN 3/4"-0" CRUSHED ROCK	135 CY
32.	DESIGN 1-1/2"-0" CRUSHED ROCK	610 CY
33.	DESIGN NON-WOVEN GEOTEXTILE FABRIC	830 SQ YRD
34.	DESIGN WOVEN GEOTEXTILE FABRIC	1,830 SQ YRD

*GRADING QUANTITIES APPROXIMATE THAT THE TOP 1' OF TOPSOIL WAS REMOVED AND SPREAD ON THE AREA INDICATED ON THESE PLANS. THE SOIL USED IN THE DAM EMBANKMENT WAS BORROWED FROM THE RESERVOIR INUNDATION AREA.
**SATURATED SOIL WAS DISCOVERED DURING EXCAVATION OF THE RESERVOIR SITE. THIS AREA WAS EXCAVATED TO WEATHERED BEDROCK AND BACKFILLED WITH SUITABLE COMPACTED NATIVE SOIL.

SHEET INDEX

USACE PERMIT No.: NWP-2014-310
DSL PERMIT No.: 56702-NP
OWRD APPLICATION No.: R-87985; S-87986

DRAWINGS OF RECORD



HOLLIS RESERVOIR – SITE PLAN

SCALE: 1"=100'

LEGEND

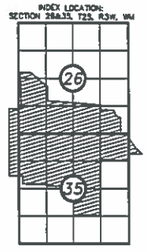
- SECTION LINE
- 1/16TH SECTION LINE
- PROPERTY LINE
- MINOR CONTOUR (2' INTERVAL)
- MAJOR CONTOUR (10' INTERVAL)
- THIN SPREAD AREA / WASTE AREA
- SET CONTROL POINT
- 25' WIDE CONIFEROUS TREE PLANTING AREA
- 10' WIDE GRASS PLANTING STRIP
- PROPOSED MITIGATION AREA
- EXISTING TREE / STUMP
- TEST PIT
- EXISTING GRAVEL ROAD
- STRAW BALE DIKE
- TOE DRAIN
- EXISTING DIRT ROAD
- RIPRAP / PLUNGE POOL

STUNTZNER ENGINEERING & FORESTRY, LLC MAKES NO REPRESENTATION AS TO THE EXISTENCE OR NON-EXISTENCE OF UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF ORS 757.542 TO 757.562 & 757.993. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM DISRUPTION OF SERVICE CAUSED BY CONSTRUCTION ACTIVITIES.

N

100 0 50 100
1 inch = 100 ft.

SEE BENCHMARK NOTES FOR ELEVATION INFORMATION
EXISTING CONTOUR INTERVALS: 2 FOOT
PROPOSED CONTOUR INTERVALS: 2 FOOT



REV	DATE	DESCRIPTION	BY
1	7-11-16	OREGON DAM SAFETY	TMJ
	9-4-16	24" PIPE & RIPRAP	WLF
	11-21-16	DRAWINGS OF RECORD	WLF

1 – DRAWINGS OF RECORD COVER SHEET & SITE PLAN

HOLLIS LAND AND TIMBER, LLC.
13984 CHELSEA DR.
LAKE OSWEGO, OR 97035

Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY PLANNING • WATER RIGHTS
2137 19th AVENUE FOREST GROVE, OREGON 97116
TEL: (503) 357-5717 FAX: (503) 357-5698

Nov 21, 2016 - 4:32pm
Y:\2013\313081 Hollis Land & Timber\dwg\HOLLIS AS-CONSTRUCTED-C.dwg

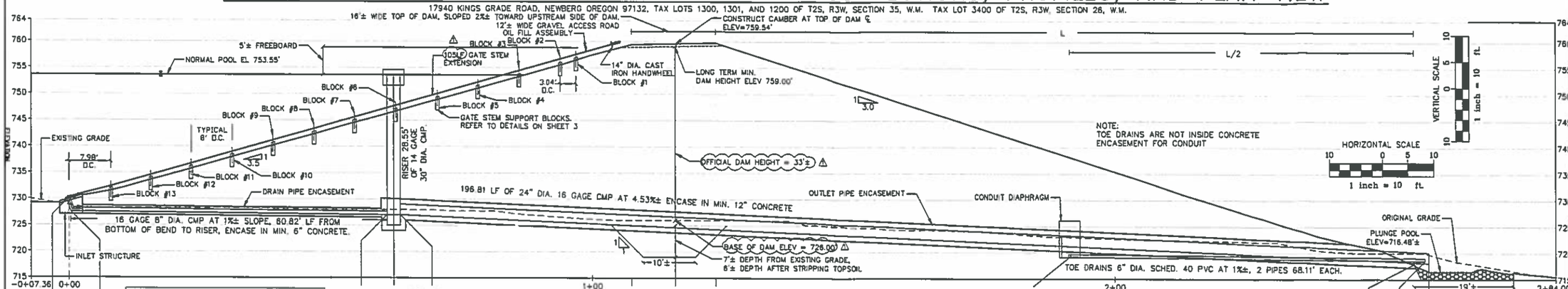
REGISTERED PROFESSIONAL ENGINEER #83,723 Nicholas G. Blundon OREGON JULY 15, 1980 NICHOLAS G. BLUNDON
EXPIRES 12/31/17

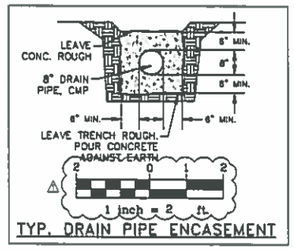
ENGINEER OF RECORD
REGISTERED PROFESSIONAL ENGINEER #53,005 OREGON JULY 15, 1980 WILLIAM L. FLATZ
EXPIRES 12/31/17

DRAWINGS OF RECORD
DESIGNED BY WLF/NGB
DRAWN BY WLF/NGB
CHECKED BY WLF/NGB
DATED 6-22-2016
REVISED 11-21-2016
JOB NAME HOLLIS RESERVOIR
JOB No.: 313081 SHEET 1 OF 4

HOLLIS RESERVOIR – DRAWINGS OF RECORD CROSS SECTIONS, PROFILES, AND PLAN VIEW

17940 KINGS GRADE ROAD, NEWBERG OREGON 97132, TAX LOTS 1300, 1301, AND 1200 OF T2S, R3W, SECTION 35, W.M. TAX LOT 3400 OF T2S, R3W, SECTION 26, W.M.

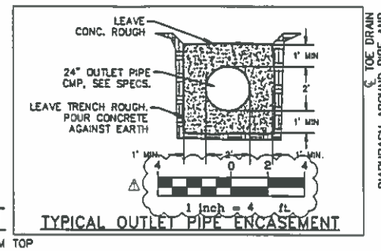




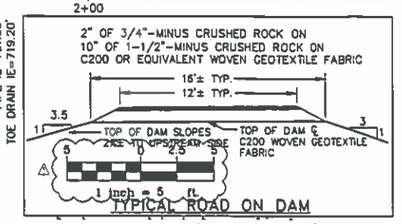
TYP. DRAIN PIPE ENCASEMENT

CROSS SECTION AT OUTLET CONDUIT

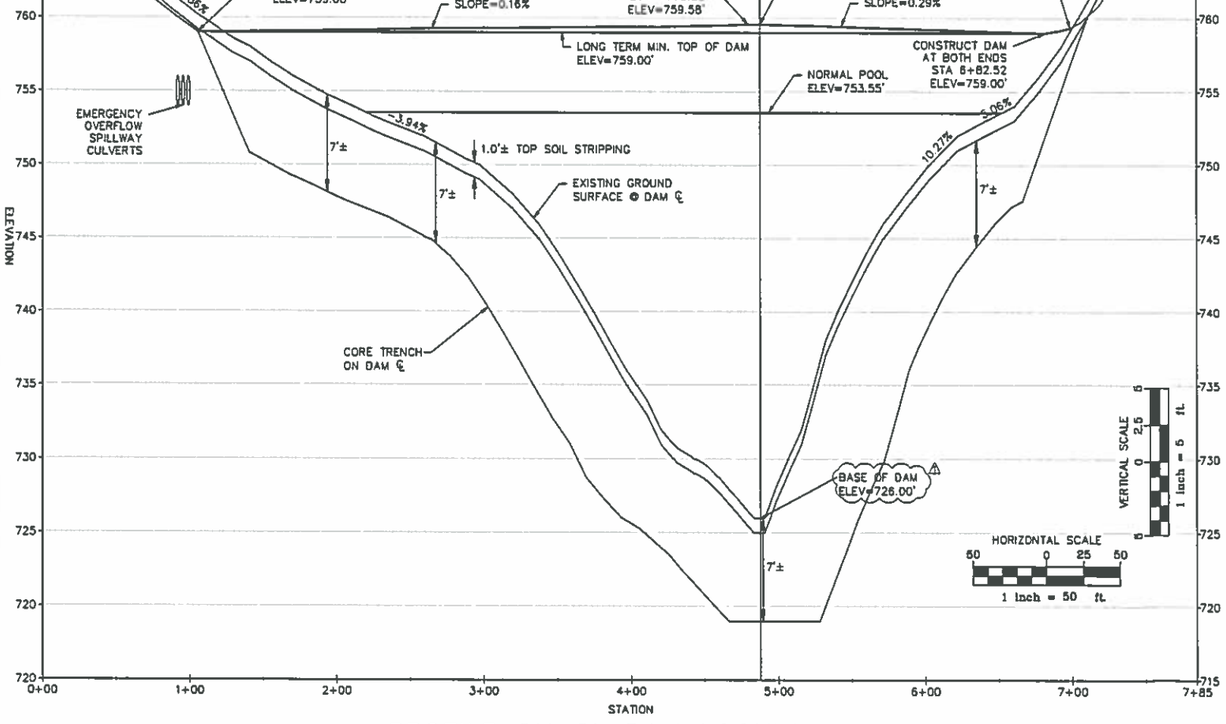
SCALE: 1"=10', NOTE: OUTLET CONDUIT IS SKEWED 12.61° FROM PERPENDICULAR WITH THE DAM TOP



TYPICAL OUTLET PIPE ENCASEMENT

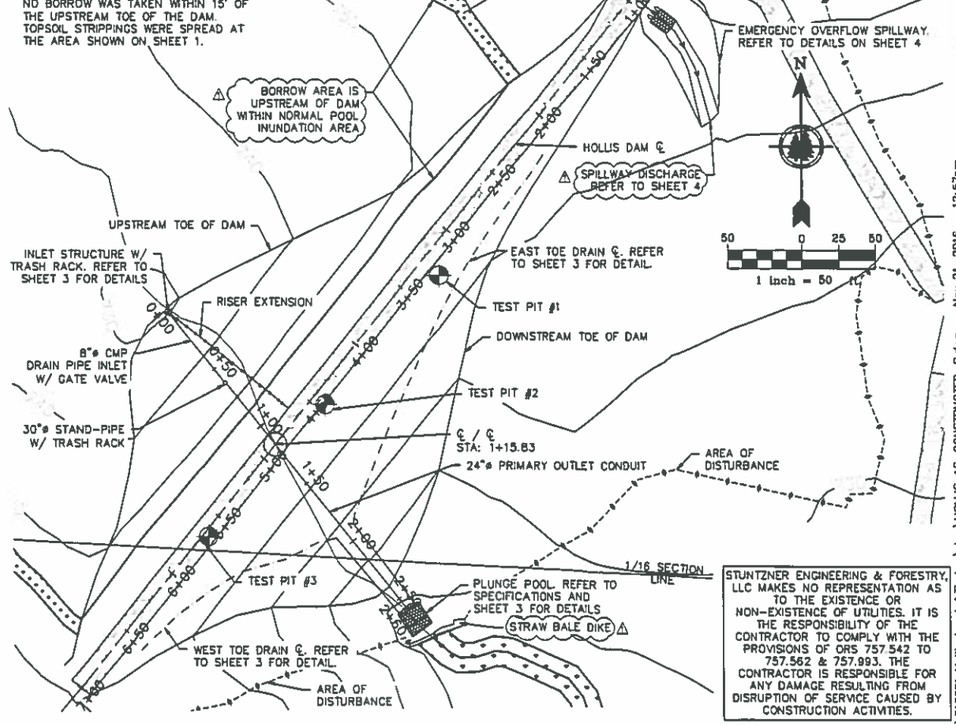


TYPICAL ROAD ON DAM



PROFILE ON CL DAM LOOKING DOWNSTREAM

NOTE:
NO BORROW WAS TAKEN WITHIN 15' OF THE UPSTREAM TOE OF THE DAM. TOPSOIL STRIPPINGS WERE SPREAD AT THE AREA SHOWN ON SHEET 1.



PLAN VIEW OF DAM

STUNTZNER ENGINEERING & FORESTRY, LLC MAKES NO REPRESENTATION AS TO THE EXISTENCE OR NON-EXISTENCE OF UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF ORS 757.542 TO 757.562 & 757.993. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM DISRUPTION OF SERVICE CAUSED BY CONSTRUCTION ACTIVITIES.

USACE PERMIT No.: NWP-2014-310
DSL PERMIT No.: 58702-NP
OWRD APPLICATION No.: R-87985, S-87986

DRAWINGS OF RECORD

2 – DRAWINGS OF RECORD CROSS SECTIONS, PROFILES, AND PLAN VIEW

HOLLIS LAND AND TIMBER, LLC.
13984 CHELSEA DR.
LAKE OSWEGO, OR 97035

REV	DATE	DESCRIPTION	BY
1	7-11-16	OREGON DAM SAFETY	TMJ
	9-4-16	24" PIPE & RIPRAP	WLF
	11-21-16	DRAWINGS OF RECORD	WLF

RECEIVED
DEC 30 2020
OWRD

Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY
PLANNING • WATER RIGHTS
• COOS BAY • DALLAS • FOREST GROVE •
2137 19th AVENUE
FOREST GROVE, OREGON 97116
TEL: (503) 357-5717
FAX: (503) 357-5898

REGISTERED PROFESSIONAL ENGINEER #83,725 OREGON JAN 15, 1998 NICHOLAS G. BLUHUM
EXPIRES 12/31/17

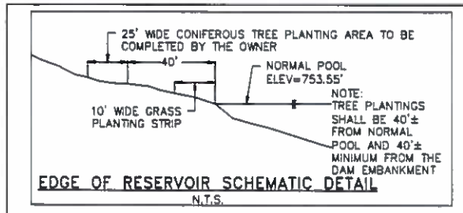
ENGINEER OF RECORD
REGISTERED PROFESSIONAL ENGINEER #53,005 OREGON OCT 15, 1998 WILLIAM L. FLATT
EXPIRES 12/31/17

DRAWINGS OF RECORD
DESIGNED BY: WLF/NGB
DRAWN BY: WLF/NGB
CHECKED BY: WLF/NGB
DATE: 6-22-2016
REVISED: 11-21-2016
JOB NAME: HOLLIS RESERVOIR
JOB No.: 313081
SHEET 2 OF 4

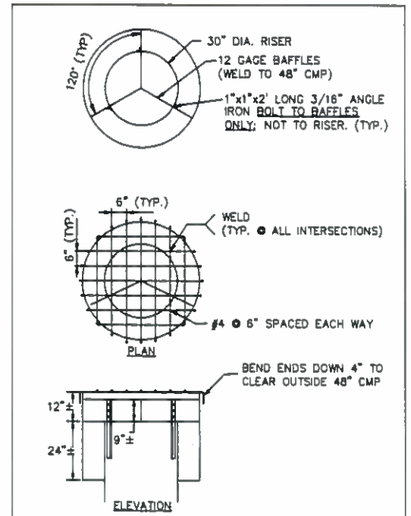
Y:\2013\313081 Hollis Land & Timber\dwg\HOLLIS AS-CONSTRUCTED-C.dwg Nov 21, 2016 - 12:57pm

HOLLIS RESERVOIR – DRAWINGS OF RECORD DETAILS

17940 KINGS GRADE ROAD, NEWBERG OREGON 97132
TAX LOTS 1300, 1301, AND 1200 OF T2S, R3W, SECTION 35, W.M.
TAX LOT 3400 OF T2S, R3W, SECTION 26, W.M.

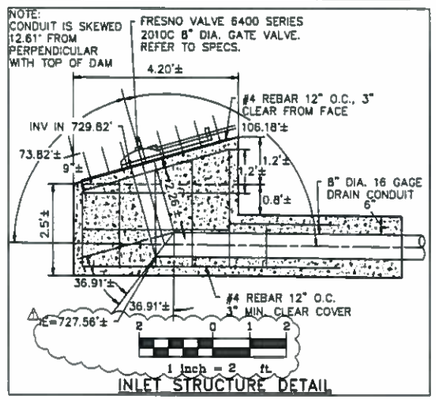


EDGE OF RESERVOIR SCHEMATIC DETAIL
N.T.S.

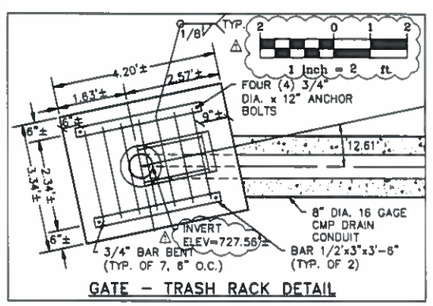


NOTE:
TRASH RACK IS BOLTED TO BAFFLES, BUT THIS ASSEMBLY IS FLOATING ON THE RISER.

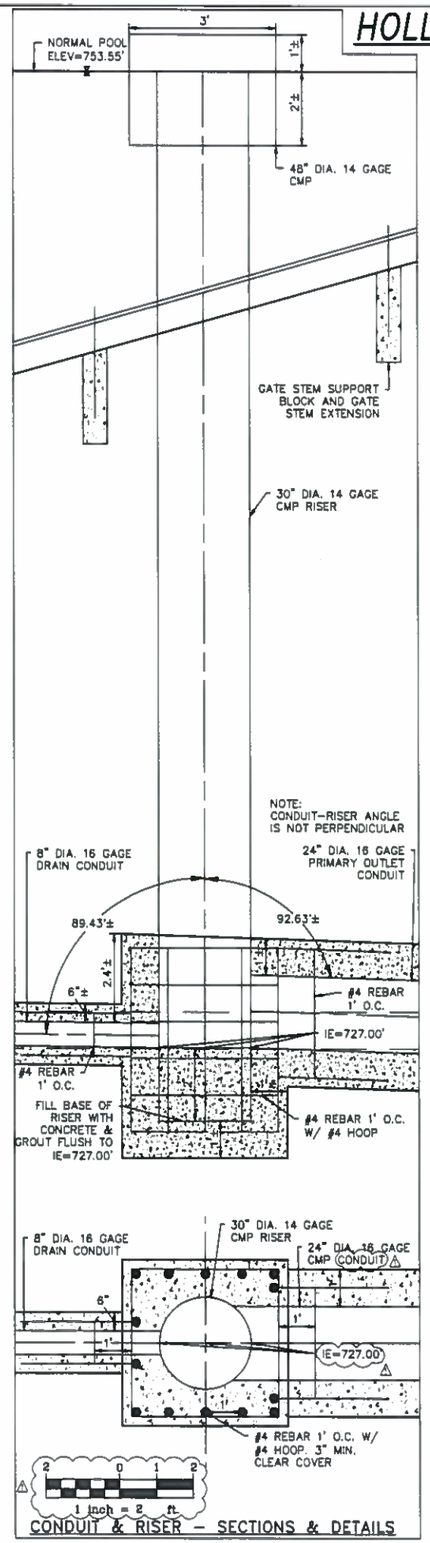
RISER TRASH RACK DETAIL
N.T.S.



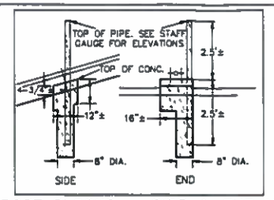
INLET STRUCTURE DETAIL



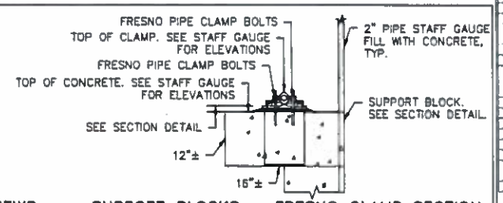
GATE – TRASH RACK DETAIL



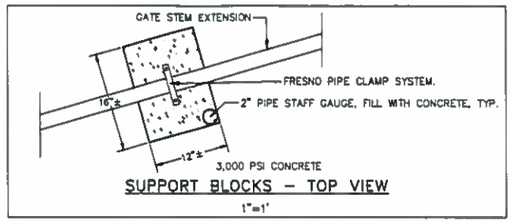
CONDUIT & RISER – SECTIONS & DETAILS



SUPPORT BLOCKS – SIDE & END VIEWS
1"=3'



SUPPORT BLOCKS – FRESNO CLAMP SECTION
N.T.S.



SUPPORT BLOCKS – TOP VIEW
1"=1'

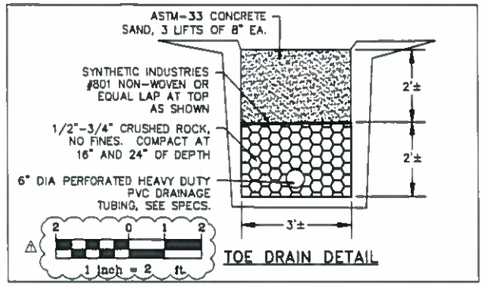
Gate Stem Support Block # / Elevation Location	Elevation (ft)	Pool Area (acres)	Storage (acre-feet)
Top of embankment	759.00	31.55	130+
#3 - Top of Clamp	758.30	30.99	130+
#3 - Top of Concrete	758.17	30.89	130.00
#3 - Top of Pipe	757.52	30.37	124.27
#2 - Top of Clamp	757.39	30.27	123.30
#2 - Top of Concrete	757.26	30.18	122.34
#3 - Top of Clamp	755.07	8.78	86.25
#3 - Top of Concrete	754.80	8.65	87.46
#4 - Top of Pipe	754.86	8.55	86.46
Emergency Spillway	754.78	8.41	84.14
Primary Outlet Stand Pipe, Normal Pool	753.55	7.89	75.00
#4 - Top of Clamp	752.72	7.57	70.01
#4 - Top of Concrete	752.64	7.53	69.65
#5 - Top of Pipe	752.51	7.27	68.56
#6 - Top of Pipe	750.45	6.34	59.09
#5 - Top of Clamp	750.44	6.33	59.02
#5 - Top of Concrete	750.14	6.20	54.33
#6 - Top of Clamp	748.13	5.47	40.99
#6 - Top of Concrete	748.03	5.43	40.53
#7 - Top of Pipe	747.80	5.36	39.84
#8 - Top of Pipe	745.89	4.86	29.76
#7 - Top of Clamp	745.79	4.83	29.33
#7 - Top of Concrete	745.71	4.80	28.98
#9 - Top of Pipe	743.59	3.70	19.98
#8 - Top of Clamp	743.51	3.76	19.68
#8 - Top of Concrete	743.39	3.72	19.22
#10 - Top of Pipe	741.44	2.86	12.72
#9 - Top of Clamp	741.23	2.77	12.13
#9 - Top of Concrete	741.12	2.68	11.58
#11 - Top of Pipe	739.03	1.95	6.95
#10 - Top of Clamp	738.94	1.92	6.78
#10 - Top of Concrete	738.86	1.89	6.61
#12 - Top of Pipe	736.75	1.24	3.44
#11 - Top of Clamp	736.60	1.19	3.25
#11 - Top of Concrete	736.51	1.16	3.14
#13 - Top of Pipe	734.46	0.60	1.29
#12 - Top of Clamp	734.37	0.58	1.23
#12 - Top of Concrete	734.25	0.55	1.15
#13 - Top of Clamp	732.27	0.26	0.35
#13 - Top of Concrete	731.97	0.22	0.29
Gate Valve Invert	729.82	0.04	0.03

*Pool Area & Storage Values determined from the Drawings of Record Stage-Storage curves

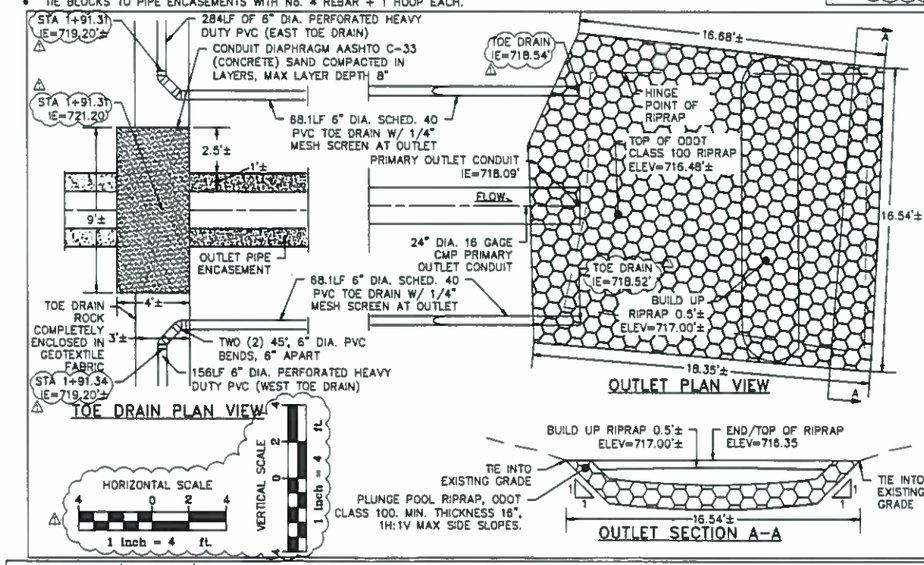
STAFF GAUGE – ELEVATIONS & STORAGE

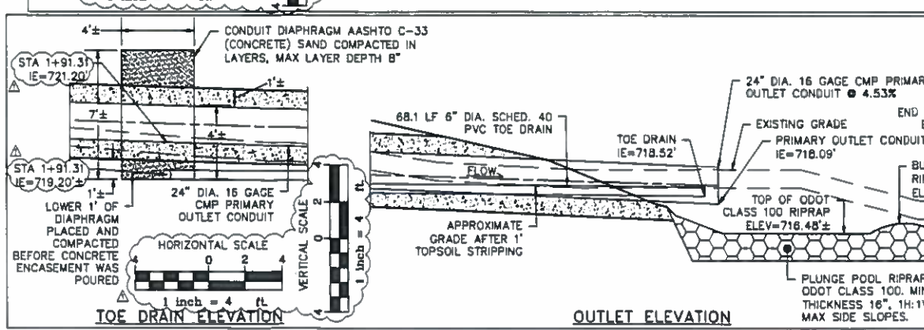
REBAR NOTES FOR INLET STRUCTURE BLOCK AND RISER (STAND PIPE) BLOCK:

- ALL REBAR SHALL BE TIED.
- MINIMUM CONCRETE CLEAR COVER IS 3".
- MINIMUM REBAR BEND RADIUS IS 3".
- MINIMUM REBAR SPLICE LENGTH IS 14".
- REBAR SPACING IS TYPICALLY 12" O.C., UNLESS SPECIFIED OTHERWISE.
- TIE BLOCKS TO PIPE ENCASEMENTS WITH No. 4 REBAR + 1 HOOP EACH.



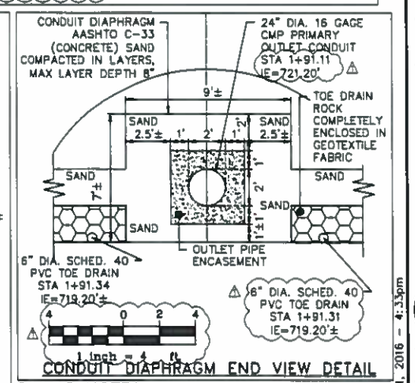
TOE DRAIN DETAIL





TOE DRAIN ELEVATION

OUTLET ELEVATION



CONDUIT DIAPHRAGM END VIEW DETAIL

RIPRAP NOTES:

- RIPRAP FOR THE PLUNGE POOL SHALL BE ODOT CLASS 100. MINIMUM DEPTH OF RIPRAP IS 16"
- RIPRAP FOR THE EMERGENCY OVERFLOW SPILLWAY AND SEDIMENT SETTLING POOL SHALL BE ODOT CLASS 50. REFER TO DETAILS FOR DEPTH OF RIPRAP.

GRADATION REQUIREMENTS (BY WEIGHT) FOR CLASS 100 RIPRAP:
20% OF 60–100 LBS ROCK
30% OF 25–60 LBS ROCK
40% OF 2–25 LBS ROCK
10% OF 0–2 LBS ROCK

GRADATION REQUIREMENTS (BY WEIGHT) FOR CLASS 50 RIPRAP:
20% OF 30–50 LBS ROCK
30% OF 15–30 LBS ROCK
40% OF 2–15 LBS ROCK
10% OF 0–2 LBS ROCK

STUNTZNER ENGINEERING & FORESTRY, LLC MAKES NO REPRESENTATION AS TO THE EXISTENCE OR NON-EXISTENCE OF UTILITIES. IT S THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF ORS 757.542 TO 757.562 & 757.993. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM DISRUPTION OF SERVICE CAUSED BY CONSTRUCTION ACTIVITIES.

USACE PERMIT No.: NWP-2014-310
DSL PERMIT No.: 56702-NP
OWRD APPLICATION No.: R-87985; S-87986

3 – DRAWINGS OF RECORD DETAILS

HOLLIS LAND AND TIMBER, LLC.
13984 CHELSEA DR.
LAKE OSWEGO, OR 97035

REV	DATE	DESCRIPTION	BY
A	7-11-16	OREGON DAM SAFETY	TMJ
	9-4-16	24" PIPE & RIPRAP	WLF
	11-21-16	DRAWINGS OF RECORD	WLF

RECEIVED
DEC 30 2020
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Stuntzner Engineering & Forestry, LLC
ENGINEERING • LAND SURVEYING • FORESTRY PLANNING • WATER RIGHTS
• EUGENE BAY • DALLAS • • FOREST GROVE •
2137 18th AVENUE
FOREST GROVE, OREGON 97116
TEL: (503) 357-5717
FAX: (503) 357-5668

Nov 21, 2016 – 4:33pm
Y:\2013\313081 Hollis Land & Timber\dwg\HOLLIS AS-CONSTRUCTED-C.dwg

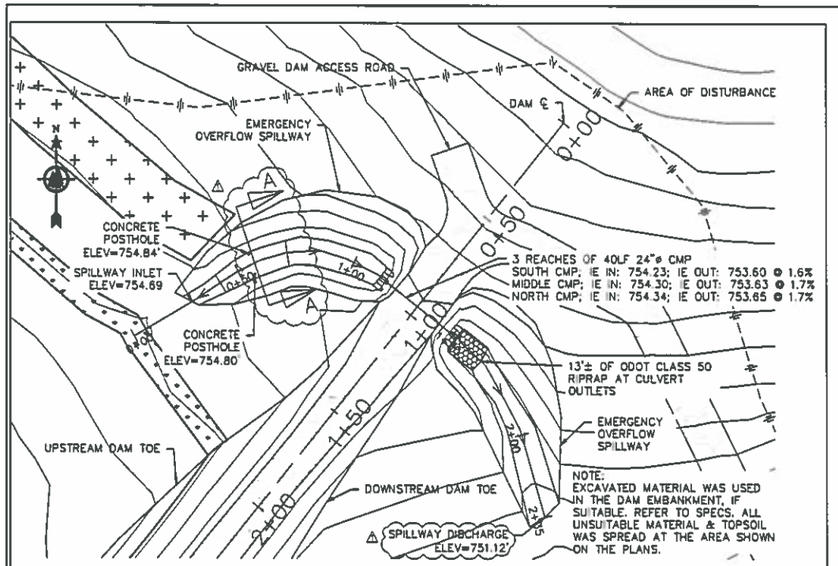
REGISTERED PROFESSIONAL ENGINEER #83,725 OREGON JULY 14, 2006 NICHOLAS G SLUNTZER EXPIRES 12/31/17

ENGINEER OF RECORD
REGISTERED PROFESSIONAL ENGINEER #53,005 OREGON JULY 13, 1990 WILLIAM L. PLATZ EXPIRES 12/31/17

DRAWINGS OF RECORD
DESIGNED BY: WLF/NGS
DRAWN BY: WLF/NGS
CHECKED BY: WLF/NGS
DATE: 6-22-2016
REVISED: 11-21-2016
JOB NAME: HOLLIS RESERVOIR
JOB No.: 313081 SHEET 3 OF 4

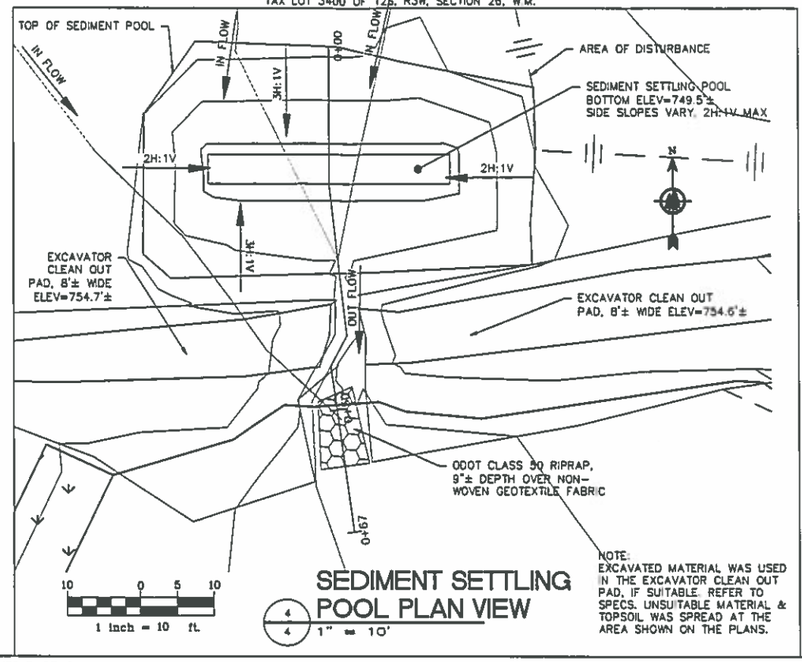
HOLLIS RESERVOIR – DRAWINGS OF RECORD
PLANS, PROFILES, AND DETAILS

17940 KINGS GRADE ROAD, NEWBERG OREGON 97132
TAX LOTS 1300, 1301, AND 1200 OF T2S, R3W, SECTION 35, W.M.
TAX LOT 3400 OF T2S, R3W, SECTION 26, W.M.



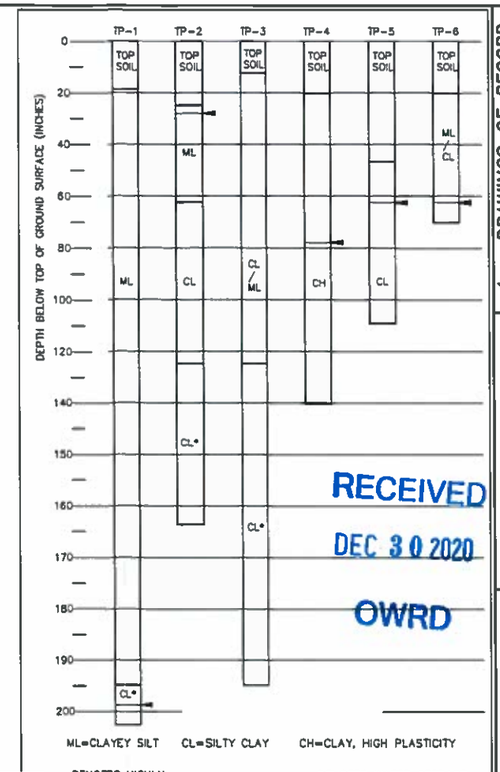
30 0 15 30
1 inch = 30 ft.

EMERGENCY OVERFLOW SPILLWAY PLAN VIEW
1/4 1" = 30'



10 0 5 10
1 inch = 10 ft.

SEDIMENT SETTLING POOL PLAN VIEW
4/4 1" = 10'



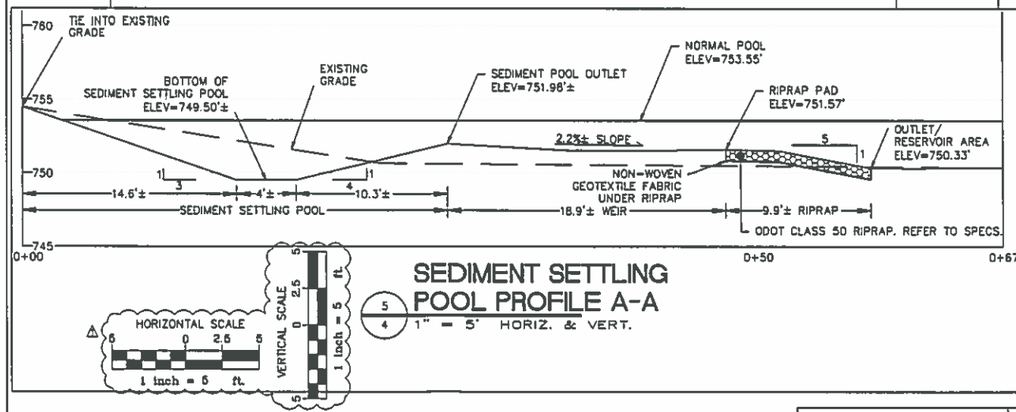
ML=CLAYEY SILT CL=SILTY CLAY CH=CLAY, HIGH PLASTICITY

DENOTES HIGHLY WEATHERED BEDROCK FRAGMENTS ENCOUNTERED ON 03/06/03

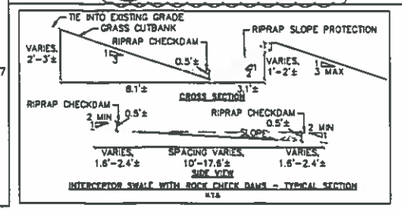
DENOTES WATER SEEPAGE INTO TEST PIT ON 03/11/2014

CLASSIFIED BY THE UNIFIED CLASSIFICATION SYSTEM ASTM D-2487. CLASSIFICATIONS ARE GEOLOGIST FIELD CLASSIFICATION (OR FROM LABORATORY TEST DATA WHERE AVAILABLE*). A COMPLETE COPY OF THE GEOLOGIST REPORT AND LAB TEST DATA IS AVAILABLE BY REQUEST THROUGH STUNTZNER ENGINEERING & FORESTRY, LLC.

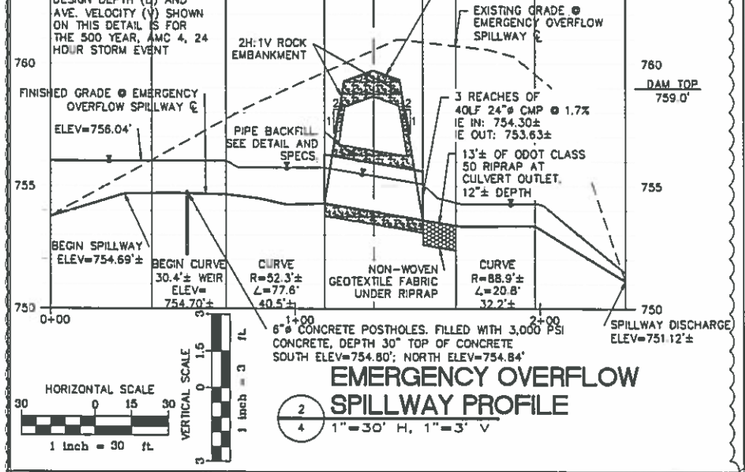
TEST PIT LOGS
6/4 N.T.S.



SEDIMENT SETTLING POOL PROFILE A-A
5/4 1" = 5' HORIZ. & VERT.

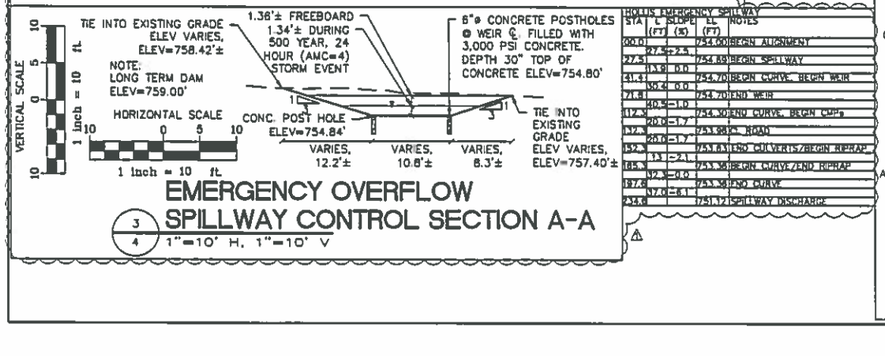


INTERCEPTOR SWALE WITH ROCK CHECK DAMS – TYPICAL SECTION
N.T.S.



30 0 15 30
1 inch = 30 ft.
1 inch = 3 ft.

EMERGENCY OVERFLOW SPILLWAY PROFILE
2/4 1"=30' H, 1"=3' V

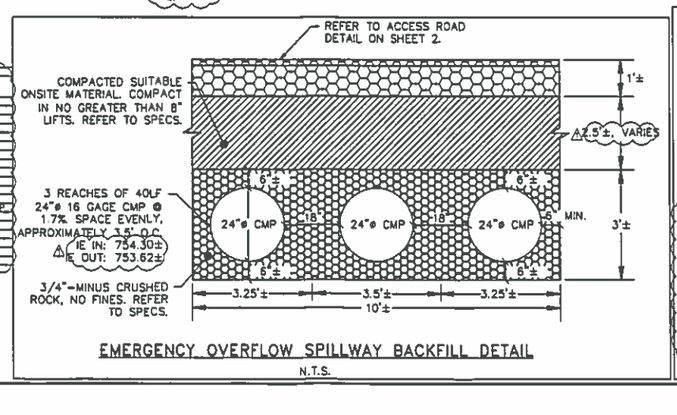


10 0 5 10
1 inch = 10 ft.
1 inch = 10 ft.

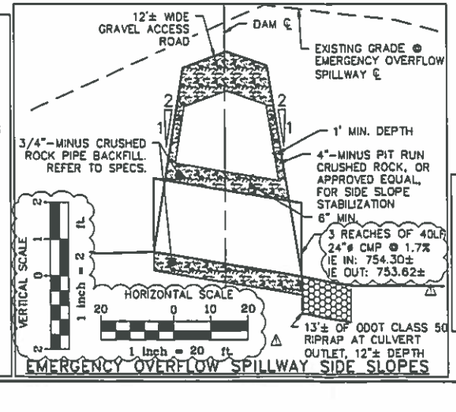
EMERGENCY OVERFLOW SPILLWAY CONTROL SECTION A-A
3/4 1"=10' H, 1"=10' V

HOLLIS EMERGENCY SPILLWAY

STA	L (FT)	SLOPE (S)	EL (FT)	NOTES
00.0			754.00	BEGIN ALIGNMENT
27.5	27.5	+2.5		
	13.9	0.0	754.69	BEGIN SPILLWAY
41.4			754.70	BEGIN CURVE, BEGIN WEIR
	30.4	0.0		
71.8			754.70	END WEIR
	10.5	-1.0		
112.4			754.30	END CURVE, BEGIN CMPø
	20.0	-1.7		
132.4			753.96	C. ROAD
	20.0	-1.7		
152.4			753.63	END CULVERTS/BEGIN RIPRAP
	33.1	-2.1		
185.4			753.36	BEGIN CURVE/END RIPRAP
	12.3	0.0		
197.8			753.36	END CURVE
	37.0	-6.1		
234.8			751.12	SPILLWAY DISCHARGE



EMERGENCY OVERFLOW SPILLWAY BACKFILL DETAIL
N.T.S.



20 0 10 20
1 inch = 20 ft.
1 inch = 2 ft.

EMERGENCY OVERFLOW SPILLWAY SIDE SLOPES

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USACE PERMIT No.: NWP-2014-310
DSL PERMIT No.: 56702-RP
OWRD APPLICATION No.: R-87955; S-87956

DRAWINGS OF RECORD

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4 – DRAWINGS OF RECORD PLANS, PROFILES, AND DETAILS

HOLLIS LAND AND TIMBER, LLC.
13984 CHELSEA DR.
LAKE OSWEGO, OR 97035

REV.	DATE	DESCRIPTION	BY
1	7-11-16	OREGON DAM SAFETY	JMJ
2	9-4-16	24" PIPE & RIPRAP	WLF
3	11-21-16	DRAWINGS OF RECORD	WLF

Stuntzner Engineering & Forestry, LLC
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2157 19th AVENUE
FOREST GROVE, OREGON 97116
TEL: (503) 357-6717
FAX: (503) 357-6688

Nov 21, 2016 - 12:58am
Y:\2013\313081 Hollis Land & Timber\dwg\HOLLIS AS-CONSTRUCTED-C.dwg

REGISTERED PROFESSIONAL ENGINEER #83,725 OREGON JULY 19, 1996 NICHOLAS G. BLUMONT
EXPIRES 12/31/17

ENGINEER OF RECORD
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DESIGNED BY WLF/NGB
DRAWN BY WLF/NGB
CHECKED BY WLF/NGB
DATE 8-22-2016
REVISED 11-21-2016
JOB NAME HOLLIS RESERVOIR
JOB No.: 313081 SHEET 4 OF 4

DRAWINGS OF RECORD

LAND SURVEYING PLANNING ENGINEERING WATER RIGHTS FORESTRY GPS & GIS

Stuntzner Engineering & Forestry, LLC

TELEPHONE (503) 357-5717
CELL (503) 939-8381
FAX (503) 357-5698
billflatz@stuntzner.com

2318-B Pacific Avenue
FOREST GROVE, OREGON 97116

COOS BAY - FOREST GROVE – DALLAS – JUNCTION CITY

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DEC 30 2020
OWRD

TO: **Oregon Water Resources Department**
725 Summer Street NE, Suite A
Salem, OR 97301-1266

SUBJECT: Claim of Beneficial Use Submittal.

December 28, 2020

To Whom it may concern:

Please find enclosed:

- A completed Claim of Beneficial Use form.
- A completed Claim of Beneficial Use map
- Claim of Beneficial Use attachments.
- A check for $200 for the statutory review fee.

Please call if you have any questions or need any further information.

Sincerely,
Stuntzner Engineering & Forestry, LLC

Bill Flatz, PE, CWRE