

# MONEY SLIP

DATE: 11-22-2021RECEIPT #: 136933

RECEIVED FROM:

Ron L Bruce

APPLICATION

PERMIT

TRANSFER

CASH

CHECK #

1089

OTHER (IDENTIFY)

TOTAL REC'D \$ 200.00**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**

0407 COPY &amp; TAPE FEES

\$

0410 RESEARCH FEES

\$

0408 MISC REVENUE (IDENTIFY)

\$

TC162 DEPOSIT LIAB. (IDENTIFY)

\$

0240 EXTENSION OF TIME

\$

**WATER RIGHTS**

0201 SURFACE WATER

EXAM FEE

\$

0202

RECORD FEE

0203 GROUND WATER

\$

0204

\$

0205 TRANSFER

\$

**WELL CONSTRUCTION**

0218 WELL DRILL CONSTRUCTOR

EXAM FEE

\$

0219

RECORD FEE

LANDOWNER'S PERMIT

0220

\$

OTHER (IDENTIFY)

\$

**0607 TREASURY****0467 HYDROELECTRIC**

0233 POWER LICENSE FEE (FW/WRD)

LIC NUMBER

0231 HYDRO LICENSE FEE (FW/WRD)

\$

\$

HYDRO APPLICATION

\$

**SPECIAL INSTRUCTIONS:**

RETURN TO APPLICANT -- LETTER ATTACHED

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Peter D. Allen  
LAND SURVEYING  
321 Northwest "A" Street / Grants Pass, Oregon 97526  
Phone: 541-476-4502  
E-mail: allensurvey@qwestoffice.net

# LETTER OF TRANSMITTAL

<b>TO/AGENCY:</b> OREGON WATER RESOURCES DEPT.	<b>RE/PROJECT:</b> CLAIM OF BENEFICIAL USE
<b>ATTN:</b>	
<b>DATE:</b> 11-9-2021	
<b>AGENCY PROJECT NO:</b> PERMIT # S-54812	<b>CLIENT:</b> RONNIE BRUCE
<b>ASSESSOR'S MAP &amp; TAX LOT NO:</b> 37-05-27, TAX LOTS 500, 504+516	<b>PROPERTY ADDRESS:</b> 10300 N. APPLGATE RD.

WE ARE SENDING YOU:  Attached  Hand Deliver  Mail  Overnight  Under Separate Cover

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Pre-Application          | <input checked="" type="checkbox"/> Mylars        | <input type="checkbox"/> For Your Approval/Signature |
| <input type="checkbox"/> Tentative Plan           | <input type="checkbox"/> Original Prints          | <input checked="" type="checkbox"/> For Your Review  |
| <input type="checkbox"/> Final Plat/Map           | <input type="checkbox"/> Prints/Blueprints        | <input type="checkbox"/> For Your Use/Reference      |
| <input type="checkbox"/> Property Line Adjustment | <input type="checkbox"/> Calculations             | <input type="checkbox"/> Electronic Files            |
| <input type="checkbox"/> Partition Plat/Replat    | <input checked="" type="checkbox"/> Documentation | <input type="checkbox"/> Photos                      |
| <input type="checkbox"/> Subdivision/PUD/Condo    |   |  |

COPIES	DATE	DESCRIPTION
1	11-9-2021	11" X 17" MYLAR OF COBU.
1	11-9-2021	COBU REPORT
1		COPY OF PERMIT # S-54812
1		SPINKLER DATA SHEETS
1		PUMP DATA SHEETS
1		COPIES OF INVOICES
1		PAYMENT COPY OF BOR. APPLGATE RESERVOIR
1	4-29-2013	FISH SCREEN LETTER
1	5-16-1975	COPY OF CERT. # 90054
1	11-12-2021	CHECK # 1089 FOR \$200 <sup>00</sup>

COMMENTS:

SIGNED: TODD ZEUTZIUS CC:

**CLAIM OF  
BENEFICIAL USE  
for Surface Water Permits  
claiming 0.1 cfs or less**



**Oregon Water Resources Department**  
725 Summer Street NE, Suite A  
Salem, Oregon 97301-1266  
(503) 986-0900  
[www.oregon.gov/OWRD](http://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.

**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 # <b>S-87820</b>	PERMIT # (IF APPLICABLE) <b>S-54812</b>	PERMIT AMENDMENT # (IF APPLICABLE)
---------------------------------	--	------------------------------------

**2. Property Owner (current owner information):**

APPLICANT/BUSINESS NAME <b>RONNIE BRUCE</b>		PHONE NO. <b>541-761-5828</b>	ADDITIONAL CONTACT NO.	
ADDRESS <b>10244 N. APPLGATE ROAD</b>				
CITY <b>GRANTS PASS</b>	STATE <b>OREGON</b>	ZIP <b>97527</b>	E-MAIL <b>N/A</b>	

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 <b>RONNIE BRUCE</b>				
ADDRESS <b>10244 N. APPLGATE ROAD</b>				
CITY <b>GRANTS PASS</b>	STATE <b>OREGON</b>	ZIP <b>97527</b>		

ADDITIONAL PERMIT HOLDER OF RECORD			<b>RECEIVED</b>	
ADDRESS			<b>NOV 22 2021</b>	
CITY	STATE	ZIP	<b>OWRD</b>	

**4. Date of Site Inspection:**

<b>OCTOBER 3, 2019</b>
------------------------

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
<b>RONNIE BRUCE</b>	<b>10-03-2019</b>	<b>OWNER</b>

**6. County:**

<b>JOSEPHINE</b>
------------------

**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)):**

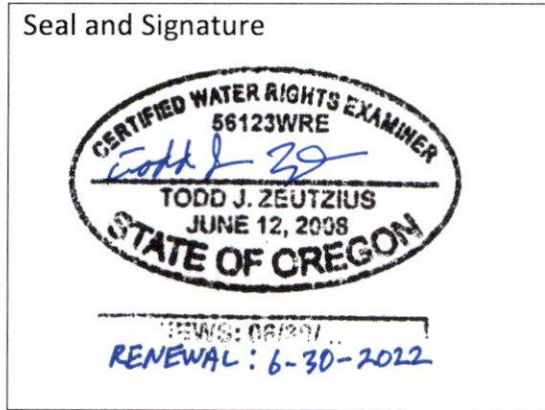
OWNER OF RECORD <b>NONE</b>				
ADDRESS				
CITY	STATE	ZIP		

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.



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CWRE NAME <b>TODD J. ZEUTZIUS</b>		PHONE NO. <b>541-476-4502</b>	ADDITIONAL CONTACT NO.	
ADDRESS <b>321 NW A STREET</b>				
CITY <b>GRANTS PASS</b>	STATE <b>OREGON</b>	ZIP <b>97526</b>	E-MAIL <b>TODDJZ@QWESTOFFICE.NET</b>	

Permit Holder's of Record Signature or Acknowledgement

**Each** permit 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
<i>Ronnie L Bruce</i>	<b>RONNIE BRUCE</b>	<b>OWNER</b>	<b>11/9/2021</b>

**SECTION 3**  
**CLAIM DESCRIPTION**

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

POD NAME OR NUMBER	SOURCE	TRIBUTARY
POD (RE-DIVERSION)	APPLEGATE RESERVOIR	APPLEGATE RIVER

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2. Developed use(s), period of use, and rate for each use:

POD NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
PUMP #1 (RE-DIVERSION)	IRRIGATION	ORCHARD, LANDSCAPING AND GARDEN	APRIL 1 THROUGH OCTOBER 31	1.2 AF
PUMP #2 (RE-DIVERSION)	IRRIGATION	ORCHARD, LANDSCAPING AND GARDEN	APRIL 1 THROUGH OCTOBER 31	11.4 AF
<b>Total Quantity of Water Used</b>				<b>12.6 AF</b>

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

12.6 Acre Feet of Irrigation water is stored in Applegate Reservoir by the U.S. Bureau of Reclamation (B.O.R.) which is released during the irrigation season into the Applegate River. This irrigation water is then re-diverted from the Applegate River into an irrigation ditch located at P.O.R.D. 11.4 AF of this irrigation water is pumped at Pump #2 from this ditch and is then conveyed through 2" and 3" above-ground PVC pipes and then applied to the 2.9 acres located in the SW1/4NE1/4 for orchard, landscaping and garden purposes through 108 total Rain Bird, model P5-R sprinklers (approximately 30 sprinkler heads at a time) mounted onto metal "T" posts. The remaining 1.2 AF of this irrigation water is pumped at Pump #1 from this ditch and is then conveyed through 1-1/2" above ground PVC pipes and then applied to the 1.3 acres located in the SE1/4NW1/4 for orchard, landscaping and garden purpose through 47 total Rain Bird, model P5-R sprinklers (approximately 20 sprinkler heads at a time) mounted onto metal "T" posts.

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.

**NO**

(e.g. "The permit allowed three points of diversion. The water user only developed one of the points." or "The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres.")

**5. Claim Summary:**

POD / POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
PUMP #1	1.2 AF	0.198 CFS (89 gal/min)	30 gal/min	IRRIGATION	1.3	1.3
PUMP #2	11.4 AF	0.312 CFS (140 gal/min)	110 gal/min	IRRIGATION	2.9	2.9

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**SECTION 4**  
**SYSTEM DESCRIPTION**

Are there multiple PODs?

**NO**

If "YES" you will need to copy and complete a separate Section 4 for each POD.

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

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**A. Place of Use**

Attach Claim of Beneficial Use map.

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**Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and 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 and apply the water from the point of diversion to the place of use.

**1. Is a pump used?**

**YES**

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

**2. Pump Information:**

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)
<b>PUMP #1: FRANKLIN ELECTRIC</b>	<b>30WMH15S4</b>	<b>10G220200239J</b>	<b>CENTRIFUGAL</b>
<b>PUMP #2: FRANKLIN ELECTRIC</b>	<b>FTB5CI</b>	<b>15J19-21-05009P</b>	<b>CENTRIFUGAL</b>

**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)
<b>PUMP #1: 1.5</b>	<b>60</b>	<b>5 FEET</b>	<b>45 FEET (MAX)</b>	<b>0.198 CFS</b>
<b>PUMP #2: 5.0</b>	<b>80</b>	<b>5 FEET</b>	<b>105 FEET (MAX)</b>	<b>0.315 CFS</b>

**4. Provide pump calculations:**

**PUMP #1:  $Q=1.5*6.61/50=0.198cfs$**

**PUMP #2:  $Q=5*6.61/105=0.315cfs$**



**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)
PUMP #1: 1603,000 GAL	1606,000 GAL	120 MIN	0.056 CFS
PUMP #2: 301,000 GAL	310,000 GAL	120 MIN	0.167 CFS

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

**6. Sprinkler Information:**

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
FROM PUMP #1 UNKNOWN	40	2.5	10	10	TL 504, IRRIGATION = 0.056 CFS
FROM PUMP #2 UNKNOWN	40	3.75	20	20	TL 500 & 516, IRRIGATION = 0.167 CFS

Reminder: For sprinkler output determination use the reference information at the end of this document.

**7. Drip Emitter Information:**

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)

**8. Drip Tape Information:**

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	ADDITIONAL INFORMATION

**C. Storage**

**1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)?**

NO

If "NO", item 2 and 3 relating to this section may be deleted.

If "YES" is it a: Storage Tank  
Bulge in System / Reservoir

NO

NO

Complete appropriate table(s), unused table may be deleted.

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**2. Storage Tank:**

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED

**3. Bulge in System / Reservoir:**

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)

**D. 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?**

**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:**

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**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. 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?**

**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.

**F. Additional notes or comments related to the system:**

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**SECTION 5  
CONDITIONS**

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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 use 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	<b>April 25, 2013</b>		
BEGIN CONSTRUCTION (A)		<b>May 2013</b>	<b>Purchase pumps, pipes, sprinklers and meters</b>
COMPLETE CONSTRUCTION (B)		<b>May 2015</b>	<b>Finish installation</b>
COMPLETE APPLICATION OF WATER (C)		<b>April 2018</b>	<b>Make changes and adjustments to system</b>

\* 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)?**

**NO**

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

a. Did the Extension Final Order require the submittal of Progress Reports?

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

b. Were the Progress Reports submitted?

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

**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** 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.

b. Has a meter been installed? **YES**

c. Meter Information

POD NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
PUMP #1	NETAFIM	15-505062344	WORKING	1,457,000 GAL	5/2013
PUMP #2	NETAFIM	WR-2"-12-57536	WORKING	27.956 AC FT	5/2016

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?

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

f. Measurement Device Description

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED

**4. Recording and reporting conditions:**

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

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

b. Have the reports been submitted?

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

**5. Fish Screening:**

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? **YES**

*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? **YES**

c. When was the fish screening installed?

DATE	BY WHOM
April 29, 2013	Northside Ditch (see ODFW letter)

**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.**

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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**

If not, go to <https://www.oregon.gov/OWRD/Forms/Pages/default.aspx>

complete and attach a copy of the 'ODFW Small Pump Screen 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**

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.**

**6. 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**

*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 devices been installed?

**YES**

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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
<b>Already installed by ditch company (see ODFW letter)</b>	<b>4-29-2013</b>	<b>Northside Ditch</b>

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.)

**7. 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? **NO**
- b. Other conditions? **NO**

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

**SECTION 6  
ATTACHMENTS**

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

ATTACHMENT NAME	DESCRIPTION
<b>RAIN BIRD</b>	<b>SPRINKLER INFORMATION</b>
<b>PUMPS</b>	<b>PUMPS INFORMATION</b>
<b>RECEIPT</b>	<b>COPIES OF RECEIPTS</b>

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## SECTION 7

## CLAIM OF BENEFICIAL USE MAP

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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.

**A site visit was conducted on October 3, 2019 where measurements were made. Mr. Bruce showed me the complete irrigation system. GPS measurement were mad at key points for elevation differences and edge of place of use. Aerial photography from the Josephine County GIS website was also used to determine additional places of use where GPS is impractical (under trees).**

### Map Checklist

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



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REFERENCE INFORMATION FOR CWRE USE

(Please DO NOT submit these pages.)

Additional information is available at:

[HTTPS://WWW.OREGON.GOV/OWRD/PROGRAMS/WATERRIGHTS/COBU/PAGES/DEFAULT.ASPX](https://www.oregon.gov/owrd/programs/waterrights/cobu/pages/default.aspx)

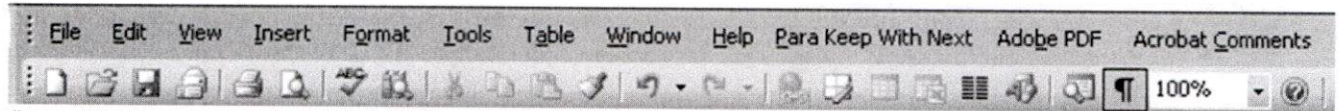
Go to "Resources for Water Right Examiners (CWRE)" Page

MS Word Hints

To add rows to a table, click outside the table on the far right and hit enter.


Place cursor here and hit return to add a row

If you are having difficulty placing the cursor outside the table, click on the Show/Hide (Paragraph) icon ¶. This is found on the Standard toolbar (View =>Toolbars=>Standard) of some versions of Word.




Place cursor here and hit return to add a row ¶

To resolve page numbering issues, go to print preview. Page through the entire document (while in print preview), then print from print preview.

## Common Calculations

The Department typically uses the following calculations to determine system capacities; many of which are available to download from the Department's Web Site:

### Pumps:

$$Q \text{ Pump} = \frac{(\text{horsepower})(\text{pump efficiency})}{(\text{total head in feet})} = Q \text{ in cfs}$$

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Efficiency factors:

NOTE: Pump efficiency factor for centrifugal pump (75%) = 6.61  
 Pump efficiency factor for turbine pump (80%) = 7.04

Centrifugal Pump, 75% eff.  $\frac{(550 \text{ ft lb/sec/Hp})(.75)}{(62.4 \text{ lb/cu ft})} = 6.61 \text{ ft}^4/\text{sec/Hp}$

Turbine & Submersible Pumps, 80% eff.  $\frac{(550 \text{ ft lb/sec/Hp})(.80)}{(62.4 \text{ lb/cu ft})} = 7.04 \text{ ft}^4/\text{sec/Hp}$

Total head is the sum of suction lift, pressure head, and discharge lift.

If the operating pressure is not measured, varying the assumed operational pressure in the above formulas until the calculated outputs are equal, or nearly so, will generally give the most correct theoretical capacity of the system.

*Efficiencies have been assumed to be 75% for centrifugal pump installations and 80% for turbine or submersible pumps. See the list below of converted psi's to feet of head. These figures account for minor friction losses. If the system involves unusually long pipelines friction losses should be accounted for by using standard charts and formulas.*

**Refer to the conversion table below to compute PSI to head for pump pressure in feet.**

$$[(\text{psi}/.433)(1.1) = \text{head (in feet/psi)} = 2.54 \text{ feet head/psi}]$$

PSI	HEAD	PSI	HEAD
25	63.5	55	139.7
30	76.2	60	152.4
35	88.9	65	165.1
40	101.6	70	177.8
45	114.3	75	190.5
50	127.0	80	203.2

## Ditches/Canals:

Manning's Formula:

$$v = \frac{1.486}{n} r^{2/3} s^{1/2}$$

v = mean velocity of flow in feet per second

r = hydraulic radius in feet

s = slope of the energy gradient

n = coefficient of roughness

Type of Conduit and Description Pipe	Coefficient of Roughness	
	Minimum	Maximum
Cast Iron, Coated	0.01	0.014
Cast Iron, Uncoated	0.011	0.015
Wrought Iron, Galvanized	0.013	0.017
Wrought Iron, Black	0.012	0.015
Steel, Riveted and Spiral	0.013	0.017
Corrugated	0.021	0.0255
Wood Stave	0.01	0.014
Neat Cement Surface	0.01	0.013
Concrete	0.01	0.017
Vitrified Sewer Pipe	0.01	0.017
Clay, Common Drainage Tile	0.011	0.017
<b>Lined Channels</b>		
Metal, Smooth Semicircular	0.011	0.015
Metal, Corrugated	0.0228	0.0244
Wood, Planed	0.01	0.015
Wood, Unplaned	0.011	0.015
Neat Cement-Lined	0.01	0.013
Concrete	0.012	0.018
Cement Rubble	0.017	0.03
<b>Vegetated, Small Channels, Shallow Depths</b>		
Bermuda Grass; Long - 13", Green	0.042	
Bermuda Grass; Long - 13", Dormant	0.035	
Bermuda Grass; Short - 3", Green	0.034	
Bermuda Grass; Short - 3", Dormant	0.034	
<b>Unlined Channels</b>		
Earth; Straight and Uniform	0.017	0.025
Dredged	0.025	0.033
Winding and Sluggish	0.0225	0.03
Stoney Bed, Weeds on Bank	0.025	0.04
Earth Bottom, Rubble Sides	0.028	0.035
Rock Cuts; Smooth and Uniform	0.025	0.035
Rock Cuts; Jagged and Irregular	0.035	0.045

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## Gravity flow pipe systems

Hazen-William's Formula:

$$v = 1.31(c)(r^{0.63})(s^{0.54})$$

v = mean velocity of flow in feet per second

c = coefficient of roughness

r = hydraulic radius in feet

s = slope of energy gradient

Material	Coefficient of Roughness
Asbestos Cement	140
Brass	135
Brick sewer	100
Cast-Iron - new unlined (CIP)	130
Cast-Iron 10 years old	110
Cast-Iron 20 years old	95
Cast-Iron 30 years old	82
Cast-Iron 40 years old	74
Concrete	130
Copper	135
Ductile Iron Pipe (DIP)	140
Galvanized iron	120
Glass	140
Lead	135
Plastic	145
PVC, CPVC	150
Smooth Pipes	140
Steel new unlined	145
Steel	130
Steel riveted	110
Tin	130
Wood Stave	120

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## SPRINKLER CAPACITIES BY NOZZLE SIZE IN GALLONS PER MINUTE

This chart is comprised of information gathered from a number of sources and may differ slightly from the manufacturer's specifications.

$$Q \text{ Sprinklers} = \frac{\text{(number of heads)(rate in gallons per minute)}}{448.8 \text{ gpm per cfs}} = Q \text{ in cfs}$$

		P.S.I. ("*" designates computed capacity)																	
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
NOZZLE SIZE	3/32				1.1	1.3	1.4	1.5	1.6	1.7	1.8								
	7/64				1.5	1.7	1.9	2	2.2										
	1/8				1.9	2.2	2.4	2.7	2.9	3	3.2								
	9/64				2.3	2.6	2.9	3.1	3.4	3.7	4								
	5/32				3	3.4	3.8	4.1	4.4	4.7	5								
	11/64	1.9	2.7	3.3	3.7	4.2	4.6	5	5.4	5.7	6	6.3	6.6						
	3/16	2.2	3.2	3.9	4.3	5	5.5	6	6.4	6.8	7.2	7.5	7.8						
	13/64	2.9	3.6	4.5	5.1	5.9	6.5	7.1	7.6	8.1	8.5	8.9	9.2						
	7/32		4.1	5.1	5.8	6.8	7.6	8.3	8.9	9.4	9.9	10.3	10.6						
	15/64							8.8		10		11.2		12.4					
	1/4		5.2	6.4	7.4	8.9	9.8	10.6	11.4	12.1	12.8	13.4	13.9	14.8*	15.3*	15.9*	16.4*	16.9*	17.4*
	17/64								12.5		14		15.6		17.1				
	9/32					11.2	12.3	13.3	14.3	15.2	16	16.8	17.5	18.1	18.9	19.7	20.7*	21.4*	22*
	19/64									16.6		18.3		19.9		21.4			
	5/16					13.1	15.2	16.5	17.7	18.9	20	21	22	23	23.9	24.8	25.7	26.4*	27.1*
	21/64										20.8		22.7		24.6		26.4		
	11/32					16.5	18	19.7	21.1	22.5	23.8	25	26.2	27.4	28.5	29.6	30.6	31.9*	32.8*
	23/64										24.5		26.8		29.1		31.4		
	3/8					19	21	22.8	24.4	26	27.5	29.1	30.6	32	33.2	34.5	35.7	38*	39*
	13/32								29*	30.9*	32.7*	34.5*	36.2*	37.4*	38.9*	40.4*	41.9*	43.3*	44.7*
7/16								33.5*	35.6*	37.7*	39.7*	41.7*	43.6*	45.3*	46.9*	48.4*	50.1*	51.6*	
1/2								42.5*	45.2*	47.7*	50.2*	52.5*	54.7*	56.8*	58.6*	60.6*	63.6*	66.7*	

NOTE: Use the maximum number heads operating at any one time.

Rate per head in gpm comes from either manufacturer's specifications using orifice size and operating pressure or from OWRD chart.

STATE OF OREGON

COUNTY OF JOSEPHINE

PERMIT TO APPROPRIATE THE PUBLIC WATERS

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THIS PERMIT IS HEREBY ISSUED TO:

RON BRUCE  
10244 N APPLGATE RD  
GRANTS PASS OR 97527

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

APPLICATION FILE NUMBER: S-87820

SOURCE OF WATER: APPLGATE RESERVOIR, CONSTRUCTED UNDER PERMIT R-7810,  
TRIBUTARY TO APPLGATE RIVER

PURPOSE OR USE: IRRIGATION OF 4.2 ACRES

MAXIMUM VOLUME: 12.6 ACRE FEET

DATE OF PRIORITY: JUNE 27, 2012

PERIOD: APRIL 1 THROUGH OCTOBER 31

Authorized Point of Re-Diversion:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
38 S	4 W	WM	6	SW SW	4000 FEET SOUTH AND 80 FEET EAST FROM NW CORNER, SECTION 6

The amount of water used for irrigation, together with the amount secured under any other right existing for the same lands, shall be limited to a diversion of not to exceed 4.5 acre-feet per acre for each acre irrigated during the irrigation season of each year. The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described.

Authorized Place of Use:

Twp	Rng	Mer	Sec	Q-Q	Acres
37 S	5 W	WM	27	SW NE	2.9
37 S	5 W	WM	27	SE NW	1.3

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter at each point of re-diversion, and maintain the meter(s) in good working order.
- B. The permittee shall allow the watermaster access to the meter(s); where a meter is located within a private structure, the watermaster shall request access upon reasonable notice.
- C. The Director may require the permittee to keep and maintain a record of the amount (volume) of water used, and may require the permittee to report water use on a periodic schedule as established by the Director. In addition, the Director may require the permittee to report general water-use information, the periods of water use, and the place and nature of use of water under the permit. The Director may provide an opportunity for the permittee to submit alternative reporting procedures for review and approval.

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

The water user shall install, maintain, and operate fish screening and by-pass devices consistent with current Oregon Department of Fish and Wildlife (ODFW) standards. Fish screening is to prevent fish from entering the proposed diversion, while by-pass devices provide adequate upstream and downstream passage for fish. The required screen and by-pass devices are to be in place and functional, and approved in writing by ODFW prior to diversion of water. The water user may submit evidence in writing that ODFW has determined screens and/or by-pass devices are not necessary.

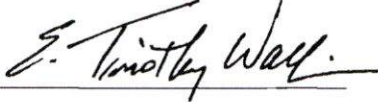
The use of water under this right is subject to the terms and conditions of contract No. 139E101804, or a satisfactory replacement, between the Bureau of Reclamation and the permittee, a copy of which must be on file in the records of the Water Resources Department.

### STANDARD CONDITIONS

1. 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.
2. Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.
3. 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.
4. 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.
5. 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.
6. 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 Chapter 635, Division 415, shall be followed.
7. Completion of construction and application of the water shall be made within five years of the date of permit issuance. If beneficial use of permitted water has not been made before this date, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.

8. Within one year after making beneficial use 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 APRIL 25 2013.



E. Timothy Wallin, Water Rights Program Manager  
for Phillip C. Ward, Director

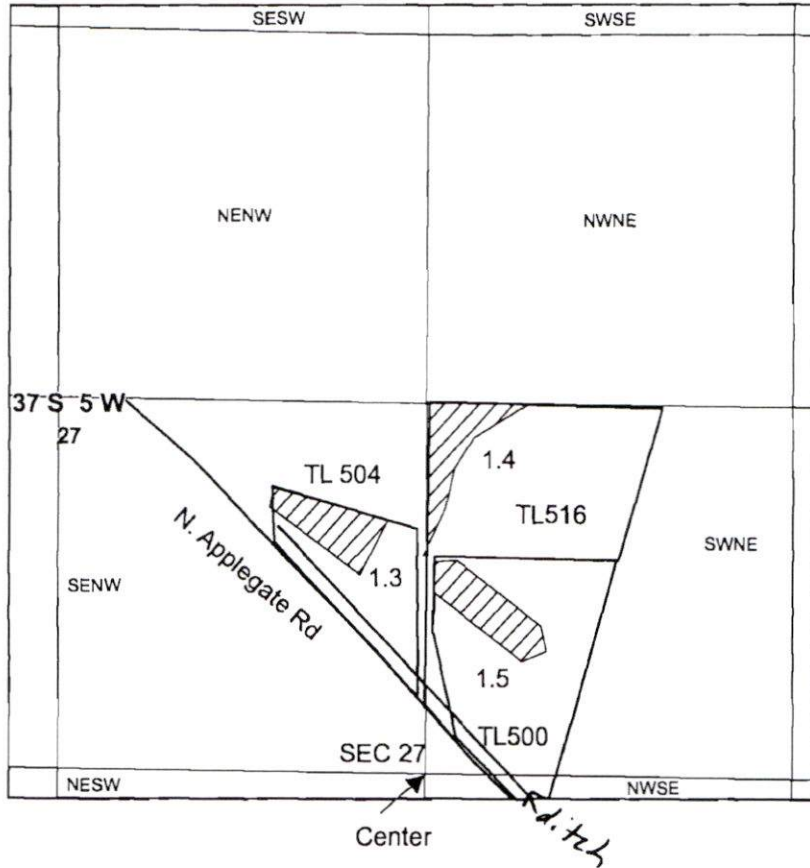
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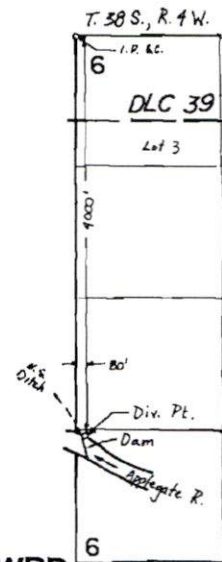


# T37S R5W



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1 inch = 660 feet



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JUN 27 2012

SALEM, OR

S-87810

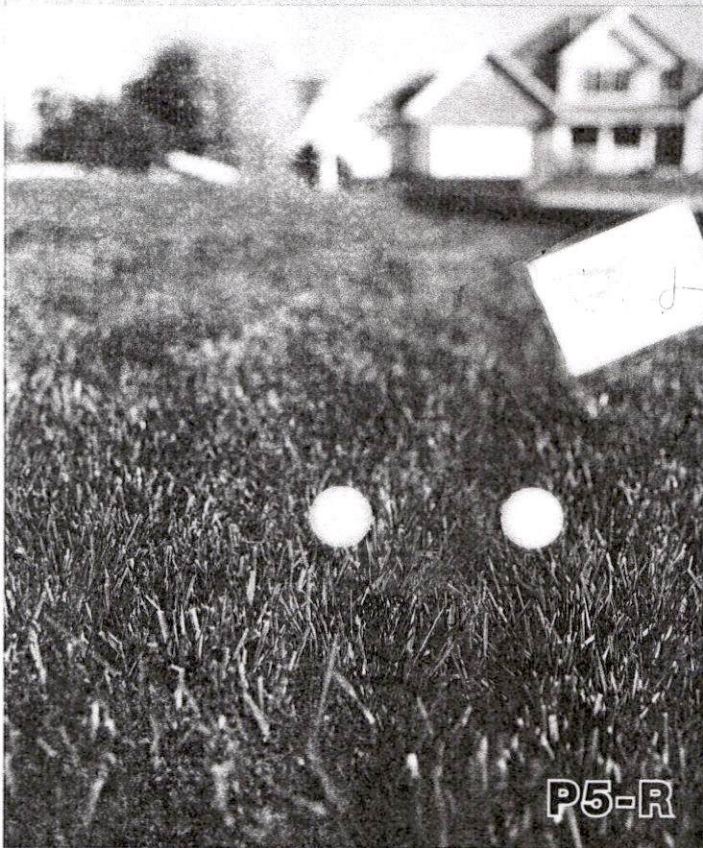


# RAIN BIRD®

## Premium Impact Sprinkler

### Rociador de impacto de primera calidad

### Arroseur à impulsion haut de gamme



**Water Saving  
Distance Control Dial**

**Dial de control de la distancia  
para economizar agua**

**Cadran de contrôle de la  
distance, pour conomiser  
l'eau**

**Precise Coverage with Easy  
Rotation Adjustments**

**Cobertura precisa con ajustes  
de rotación sencillos**

**Zones d'arrosage précises  
grâce à des réglages faciles  
de la rotation**



**P5-R**



0-360°

24-45 ft  
7,3-13,4 m



1/2" Threaded  
1/2" roscado  
Filetage de 13 mm

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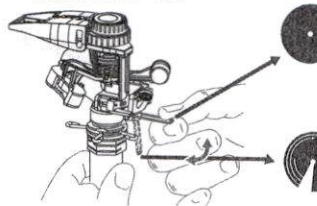
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**RAIN BIRD**

**Premium Impact Sprinkler**  
**Rociador de impacto de primera calidad**  
**Arroseur à impulsion haut de gamme**

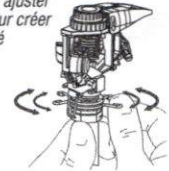
**1 Full or Part Circle Rotation**  
 Rotación de Círculo Completo o Parcial  
 Rotation sur 20° - 360°



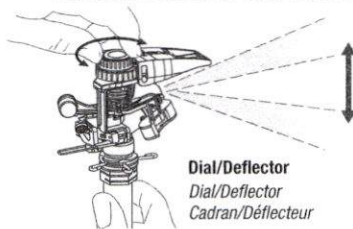
**Full Circle Pattern: move trip pin up**  
 Patrón de círculo completo: Mueva la palanca pequeña hacia arriba  
 Pour arroser sur 360°: remontez la broche de trajectoire

**Adjustable Pattern: move trip pin down**  
 Patrón ajustable: Mueva la palanca pequeña hacia abajo  
 Arrosage réglable: abaissez la broche de trajectoire

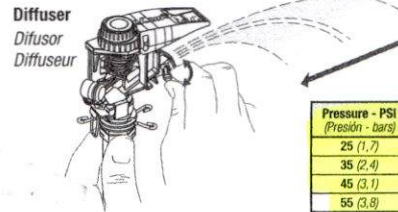
**2 Pattern Adjustment: set adjustable stops to the desired pattern**  
 Ajuste del patrón: establezca los topes ajustables de acuerdo al patrón deseado  
 Réglage de l'arrosage: ajuster les arrêts réglables pour créer le programme souhaité



**3 For Optimum Performance Use Dial/Deflector or Diffuser Pin to Reduce Distance**  
 Para un rendimiento óptimo, reduzca la distancia usando un deflector o un difusor  
 Pour réduire la distance en conservant un fonctionnement optimal, utiliser le déflecteur ou la broche du diffuseur



**Dial/Deflector**  
 Dial/Deflector  
 Cadran/Déflecteur



**Diffuser**  
 Difusor  
 Diffuseur

Pressure - PSI (Presión - bars)	Radius - ft (Radio - m)	Flow - GPM (Flujo - m <sup>3</sup> /h)
25 (1,7)	35 (10,7)	2,8 (0,64)
35 (2,4)	38 (11,6)	3,3 (0,75)
45 (3,1)	40 (12,2)	3,7 (0,84)
55 (3,8)	41 (12,5)	4,1 (0,93)

**4 Maintenance Tips**  
 Consejos para el mantenimiento  
 Conseils d'entretien

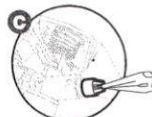
**Remove Nozzle and Vane for Cleaning**  
 Para limpiar, remueva la boquilla y el aspa  
 Démontez la buse et le volet du déflecteur pour les nettoyer



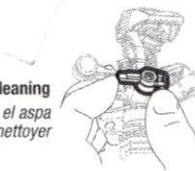
**Lift the Tip of the Pin**  
 Levante la punta de la palanca  
 Soulever le bout de la broche



**Turn the Nozzle Counter Clockwise and Remove**  
 Gire el contador de la boquilla en el sentido de las agujas del reloj y remuévala  
 Tourner la buse dans le sens inverse des aiguilles d'une montre et l'enlever

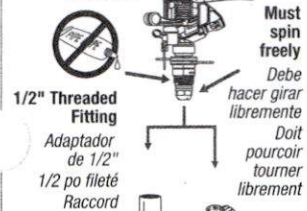


**Remove the Vane and Clean the Sprinkler with Water**  
 Remueva el aspa y limpie con agua el rociador  
 Démontez le volet et rincer la buse



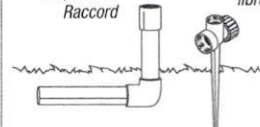
**Re-assemble the Nozzle and Vane in their Original Position**  
 Re-ensamble la boquilla y el aspa en sus posiciones originales  
 Remonter la buse et le volet dans leur position originelle

**5 Installation**  
 Instalación  
 Installation



**1/2" Threaded Fitting**  
 Adaptador de 1/2"  
 1/2 po fileté  
 Raccord

**Must spin freely**  
 Debe hacer girar libremente  
 Doit pouvoir tourner librement



**Underground System**  
 Sistema Bajo Tierra  
 Système souterrain

**Movable Spike**  
 Estaca Movable  
 Piquet amovible

Rain Bird Corporation  
 Consumer Products Division  
 6991 East Southpoint Road  
 Tucson, AZ 85756 • 1-800-RAIN BIRD

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 178720 Rev. 08/10

Assembled in China  
 Ensamblado en China  
 Assemblé en Chine



PUMP # 1



WATER HORSE

## MH-Series Horizontal Multi-Stage Centrifugal Pumps

The new Water Horse MH Series, Multi-Stage Booster Pump is designed to meet your pressure boosting needs. The stainless steel construction offers high performance in a wide variety of applications. The MH Series is offered in three flow rates and five different horsepower sizes in 1-phase or 3-phase to make sure you can have the right pump to fit your application.

### Applications:

- Pressure Boosting
- Water Transfer
- Turf Irrigation
- Residential Lawn Sprinkler Systems
- Wash Down Applications
- Commercial Water Features
- Fountains
- Cisterns
- Reverse Osmosis
- Aeration

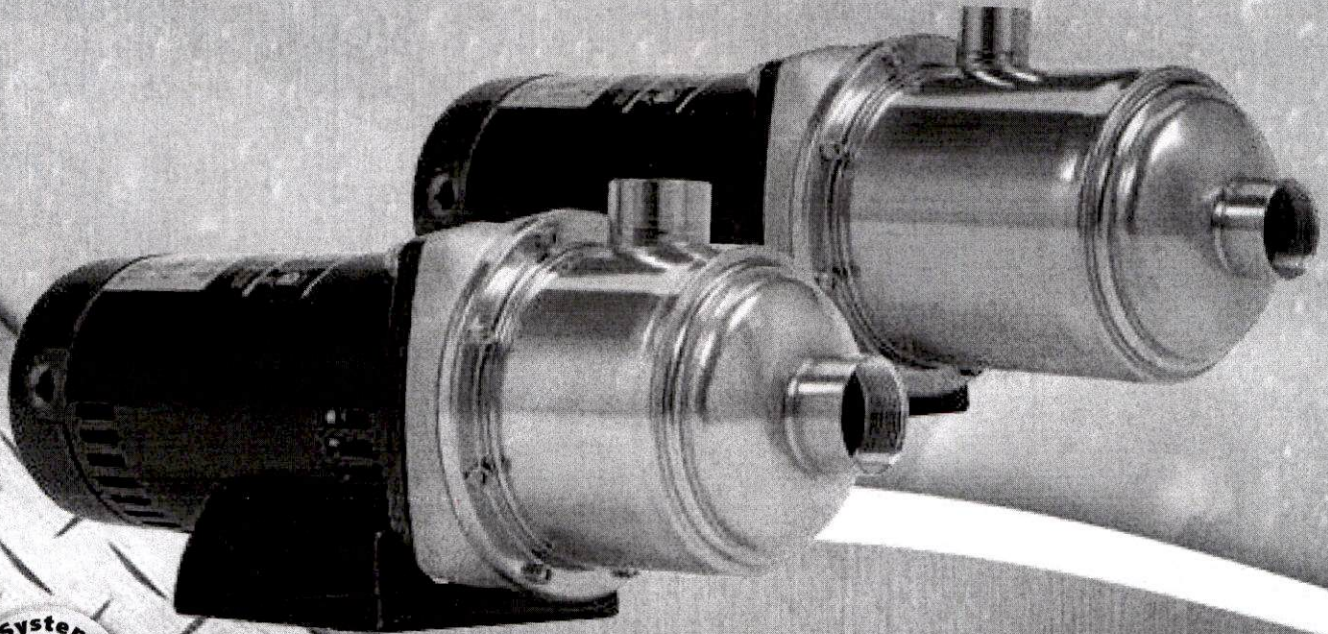
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### Features:

- All 300 Series Stainless Steel wetted components
- High Service Factor A.O. Smith motors
- Available in 3 flow rates: 15, 30 and 45 gpm
- 5 motor hp size options in 1-phase or 3-phase
- High pressure capabilities – 140 psi
- Able to pump fluids at temperatures up to 225 °F
- Can operate in suction lift installation up to 10 feet
- Certified for indoor and outdoor use

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 Franklin Electric

PUMP #1

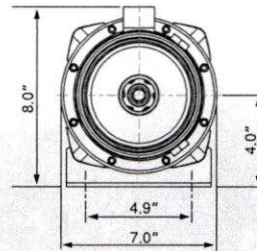
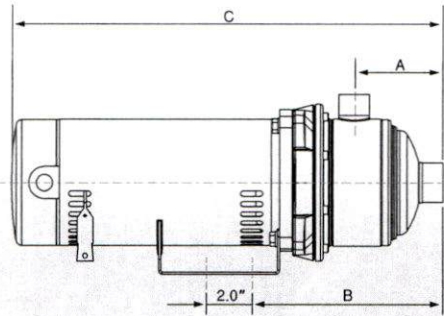
# Centrifugal Pumps

## Single-Phase Ordering Information

GPM	Suction x Discharge	HP	Stage	Voltage	Model/Grainger Item No.	Water Horse Model No.	Item No.	Wt. (lbs.)
15	1.25" x 1"	0.5	2	115/230	22DD91	15WMH05S2	96081500	22
		0.75	3	115/230	22DD92	15WMH07S3	96081501	25
		1	4	115/230	22DD93	15WMH1S4	96081502	29
		1.5	5	115/230	22DD94	15WMH15S5	96081503	35
		2	6	115/230	22DD95	15WMH2S6	96081504	40
30	1.25" x 1"	0.75	2	115/230	22DE02	30WMH07S2	96083000	25
		1	3	115/230	22DE03	30WMH1S3	96083001	33
		1.5	4	115/230	22DE04	30WMH15S4	96083002	37
		2	5	115/230	22DE05	30WMH2S5	96083003	41
45	1.50" x 1.25"	1.5	2	115/230	22DE10	45WMH15S2	96084500	33
		2	3	115/230	22DE11	45WMH2S3	96084501	39

## Three-Phase Ordering Information

GPM	Suction x Discharge	HP	Stage	Voltage	Model/Grainger Item No.	Water Horse Model No.	Item No.	Wt. (lbs.)
15	1.25" x 1"	0.5	2	208-230/460	22DD96	15WMH05S2-T	96081510	24
		0.75	3	208-230/460	22DD97	15WMH07S3-T	96081511	24
		1	4	208-230/460	22DD98	15WMH1S4-T	96081512	29
		1.5	5	208-230/460	22DD99	15WMH15S5-T	96081513	34
		2	6	208-230/460	22DE01	15WMH2S6-T	96081514	42
30	1.25" x 1"	0.75	2	208-230/460	22DE06	30WMH07S2-T	96083010	24
		1	3	208-230/460	22DE07	30WMH1S3-T	96083011	33
		1.5	4	208-230/460	22DE08	30WMH15S4-T	96083012	36
		2	5	208-230/460	22DE09	30WMH2S5-T	96083013	43
45	1.50" x 1.25"	1.5	2	208-230/460	22DE12	45WMH15S2-T	96084510	32
		2	3	208-230/460	22DE13	45WMH2S3-T	96084511	41



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## Single-Phase Dimensional Data

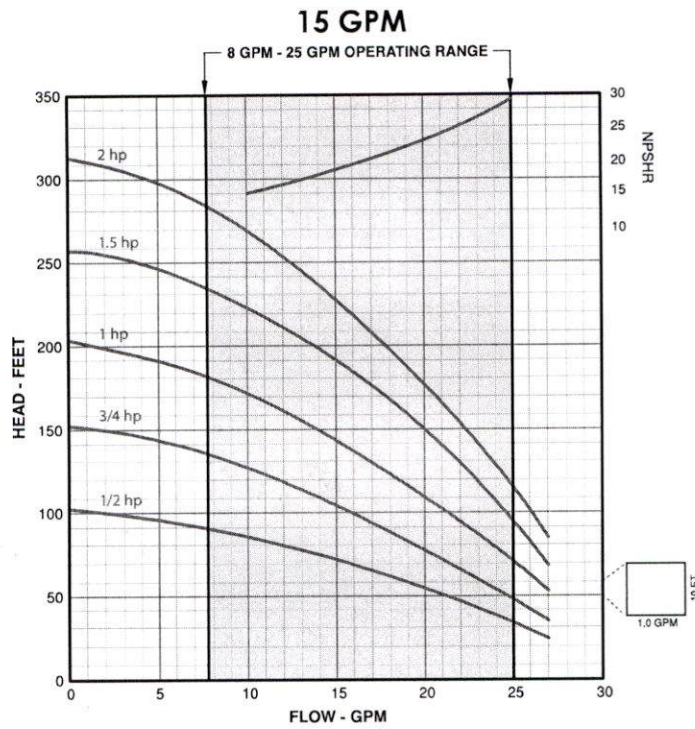
GPM	HP	Stage	A	B	C
15	0.5	2	4.06	8.75	16.75
	0.75	3	4.06	8.75	17.50
	1	4	5.00	9.69	19.07
	1.5	5	5.94	10.64	20.81
	2	6	6.89	11.58	22.59
30	0.75	2	4.06	8.75	17.50
	1	3	4.06	8.75	19.00
	1.5	4	5.00	9.69	20.70
	2	5	5.94	10.64	21.64
45	1.5	2	4.65	9.34	19.67
	2	3	4.65	9.34	20.50

## Three-Phase Dimensional Data

GPM	HP	Stage	A	B	C
15	0.5	2	4.06	8.75	16.97
	0.75	3	4.06	8.75	17.62
	1	4	5.00	9.69	18.92
	1.5	5	5.94	10.64	20.78
	2	6	6.89	11.58	22.56
30	0.75	2	4.06	8.75	17.62
	1	3	4.06	8.75	18.85
	1.5	4	5.00	9.69	20.67
	2	5	5.94	10.64	21.61
45	1.5	2	4.65	9.34	19.64
	2	3	4.65	9.34	20.47

# Centrifugal Pumps

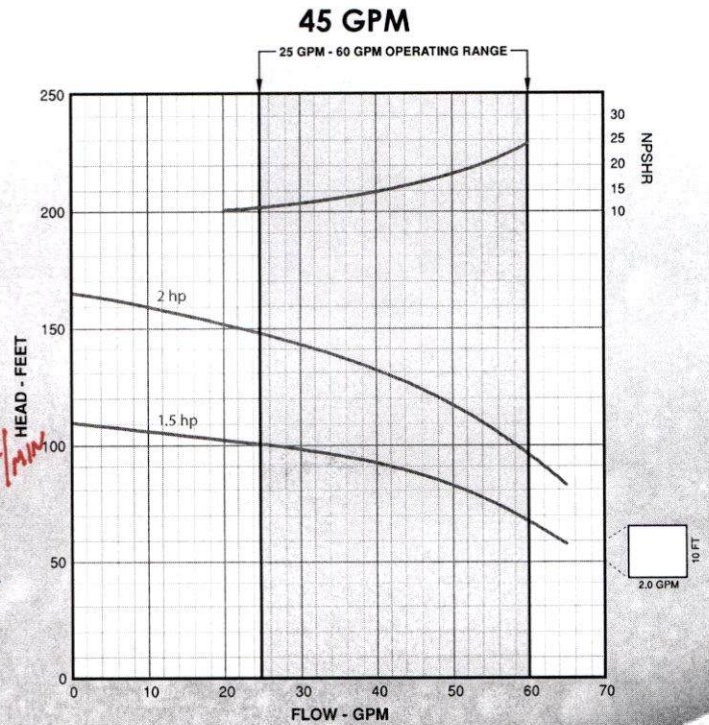
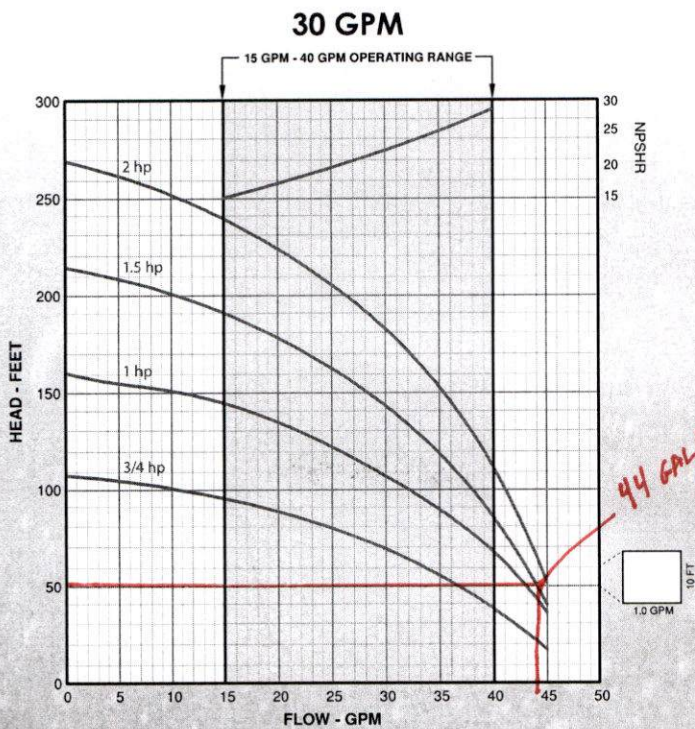
## Performance Curves



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# Centrifugal Pumps

## Performance Data

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### 15 GPM Performance Table

HP	Capacities - GPM																					Shut Off Head (PSI)		
	Total Head - Feet																							
	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250		260	270
1/2	21	18	15	12	8	1																		44
3/4	25	23	21	19	18	16	14	12	9	6	1													66
1		26	25	24	23	21	20	18	17	15	14	12	10	8	5	1								88
1.5			27	26	25	25	24	23	22	21	20	19	18	16	15	14	12	10	9	6	4			111
2					27	26	25	25	24	23	22	21	21	20	19	18	17	16	15	14	12	11	10	135

### 30 GPM Performance Table

HP	Capacities - GPM																			Shut Off Head (PSI)				
	Total Head - Feet																							
	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230		240			
3/4	37	33	30	25	19	10																		47
1	43	41	40	37	35	32	29	26	22	17	11													69
1.5	44	43	42	41	39	38	36	35	33	31	28	26	23	19	15	10	3							93
2		44	44	43	42	41	40	39	38	37	35	34	32	30	28	26	24	21	18	15				116

### 45 GPM Performance Table

HP	Capacities - GPM											Shut Off Head (PSI)											
	Total Head - Feet																						
	60	70	80	90	100	110	120	130	140	150	160												
1.5	64	59	52	43	26																		47
2				62	58	54	48	42	33	22	9												71



**Franklin Electric**

9255 Coverdale Rd., Fort Wayne, IN 46809

Tel: 260.824.2900 • Fax: 260.824.2909

[www.franklin-electric.com](http://www.franklin-electric.com)



996585 01.14

PUMP #2

# CENTRIFUGAL PUMPS

## SELF-PRIMING TURF BOSS 3-5 HP

**FPS**

### FEATURES

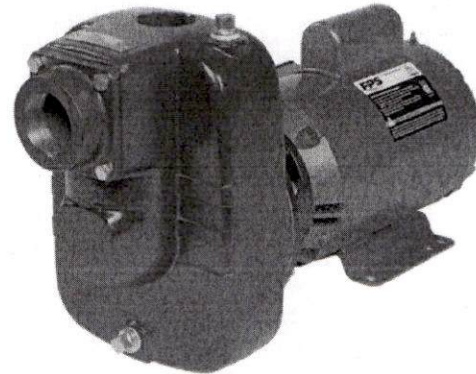
- Volute: Built-in suction check valve facilitates priming and prevents back flow or siphoning
- Impeller: Combining efficient operation with durable construction to allow for use in a broad range of pumping applications; 5 hp is 304 stainless steel, 3 hp is cast iron (stainless steel coming soon)
- Seal: Standard carbon/ceramic faces; FKM elastomers; 300 series stainless steel components
- Diffuser: Cast iron is utilized in all models to improve pump efficiency
- Motor: Standard JM frame

### SPECIFICATIONS

- Capacities to 160 gpm
- Heads to 170 feet
- 75 psi maximum working pressure
- 120 °F maximum temperature
- Clockwise rotation when viewed from motor end
- NPT pipe connections

### APPLICATIONS

- Irrigation
- Construction
- Commercial
- Municipal
- Light Industrial
- Residential
- Water Transfer



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PUMP #2

# CENTRIFUGAL PUMPS

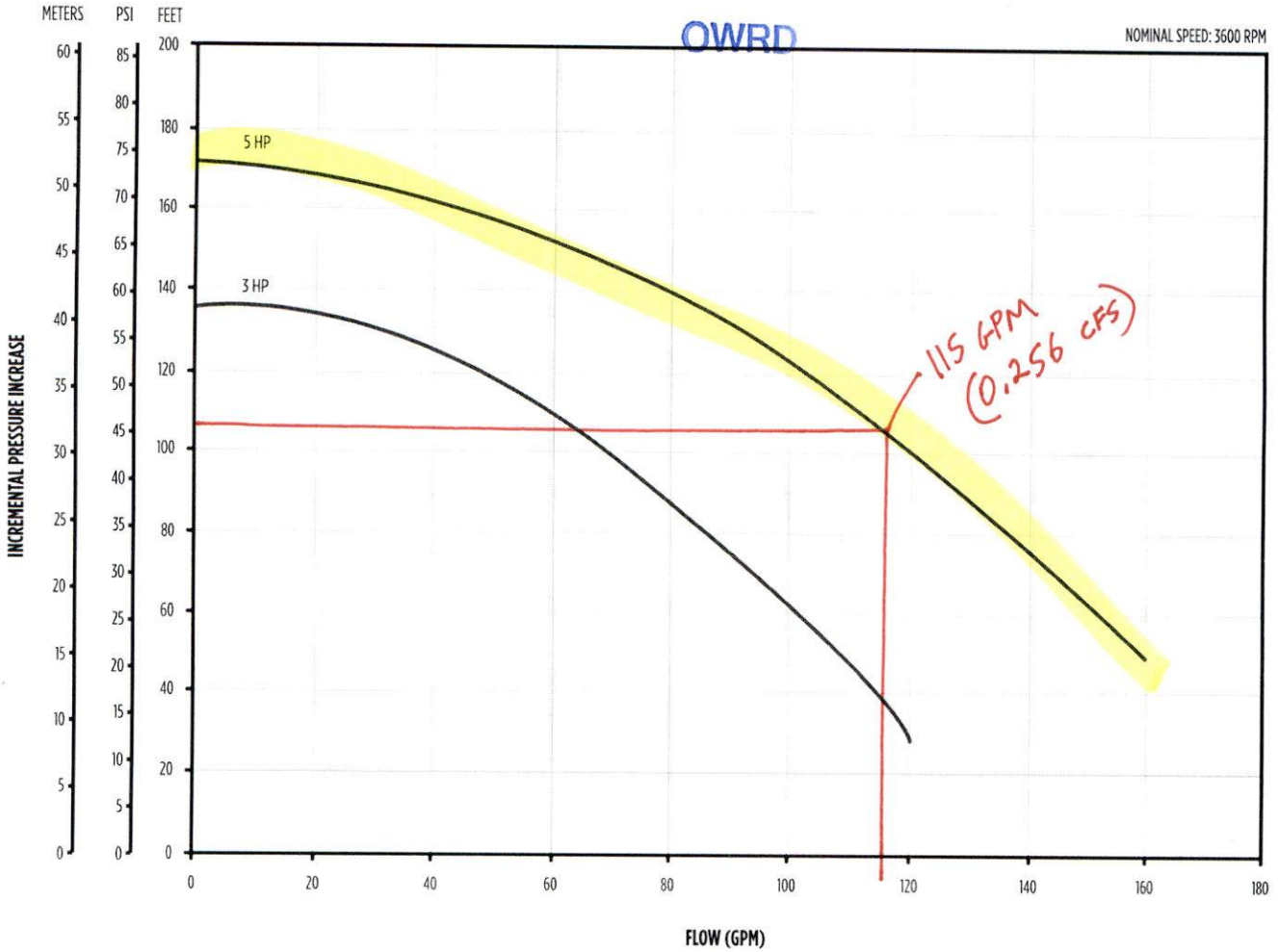
SELF-PRIMING TURF BOSS 3-5 HP



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## PERFORMANCE



Model	HP	Total Suction Lift (ft)	Discharge Pressure (PSI)									Shut-off Pressure (PSI)
			25	30	35	40	45	50	55	60	65	
FTB3CI	3	5	99	90	81	70	60	47	-	-	-	56
		10	95	86	77	66	54	-	-	-	-	54
		15	91	82	73	62	49	-	-	-	-	51
		20	87	78	68	56	42	-	-	-	-	49
		25	84	74	63	51	-	-	-	-	-	47
FTB5CI	5	5	149	141	131	122	112	102	89	74	55	71
		10	146	137	127	118	108	97	82	65	-	69
		15	142	132	124	114	104	92	76	57	-	67
		20	138	129	119	109	98	84	68	-	-	65
		25	134	125	116	105	92	78	60	-	-	63

# CENTRIFUGAL PUMPS

## SELF-PRIMING TURF BOSS 3-5 HP



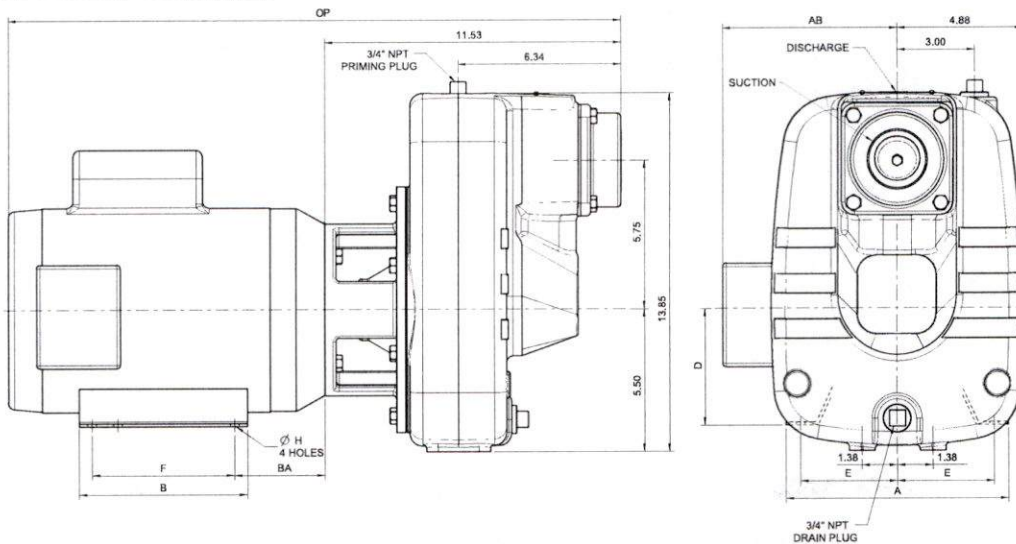
### ORDER INFORMATION

HP	Pump Size (Suc. x Dis.)	ECNL	Phase	Volts	SFA	Motor Frame Size	Motor Code	Model	Order No.	Wt. (lbs)
3	2" x 2"	ODP	1	115/230	33.4/16.7	182JM	JM-1	FTB3CI	92980030	134
			3	230/460	8.4/4.2	145JM	JM-1	FTB3CI-T	92980035	110
			1	115/230	33.4/16.7	182JM	JM-1	FTB3CI-E	92980130	134
		TEFC	3	230/460	8.2/4.1	145JM	JM-1	FTB3CI-TE	92980135	110
			3	575	3.3	145JM	JM-1	FTB3CI-TSE	92980136	106
			1	230	25.3	184JM	JM-1	FTB5CI	92980050	140
5	2 1/2" x 2"	ODP	3	230/460	13.8/6.9	182JM	JM-1	FTB5CI-T	92980055	130
			1	230	19.0	184JM	JM-1	FTB5CI-E	92980150	140
			3	230/460	13.4/6.7	184JM	JM-1	FTB5CI-TE	92980155	130
		TEFC	3	575	5.4	184JM	JM-1	FTB5CI-TSE	92980156	125

### PUMP END KITS

HP	Pump Size (Suc. x Dis.)	NEMA Mtr Frame Size Fitment			Model	Order No.	Wt. (lbs)
3	2" x 2"	143-184JM	4.5 AK	0.875" Shaft	FTB3CI-PE	92980033	60
5	2-1/2" x 2"				FTB5CI-PE	92980053	

### DIMENSIONS



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Model	Enclosure	Pump Size (SUC. X DIS)	Dimensions (in.)								
			A	B	D	E	F	H	AB	BA	OP
FTB3CI	ODP	2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.75	3.50	23.78
FTB3CI-E	TEFC	2" X 2"	8.63	6.50	4.50	3.75	5.50	0.44	6.87	3.50	29.59
FTB3CI-T	ODP	2" X 2"	6.50	5.94	3.50	2.75	5.00	0.34	5.62	2.88	22.41
FTB3CI-TE	TEFC	2" X 2"	6.50	5.94	3.50	2.75	5.00	0.38	5.74	2.88	23.57
FTB3CI-TSE	TEFC	2" X 2"	6.50	5.94	3.50	2.75	5.00	0.38	5.74	2.88	23.57
FTB5CI	ODP	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.75	3.51	23.78
FTB5CI-E	TEFC	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.45	6.87	3.50	26.83
FTB5CI-T	ODP	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.74	3.50	23.78
FTB5CI-TE	TEFC	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.87	3.50	25.34
FTB5CI-TSE	TEFC	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.87	3.50	25.34

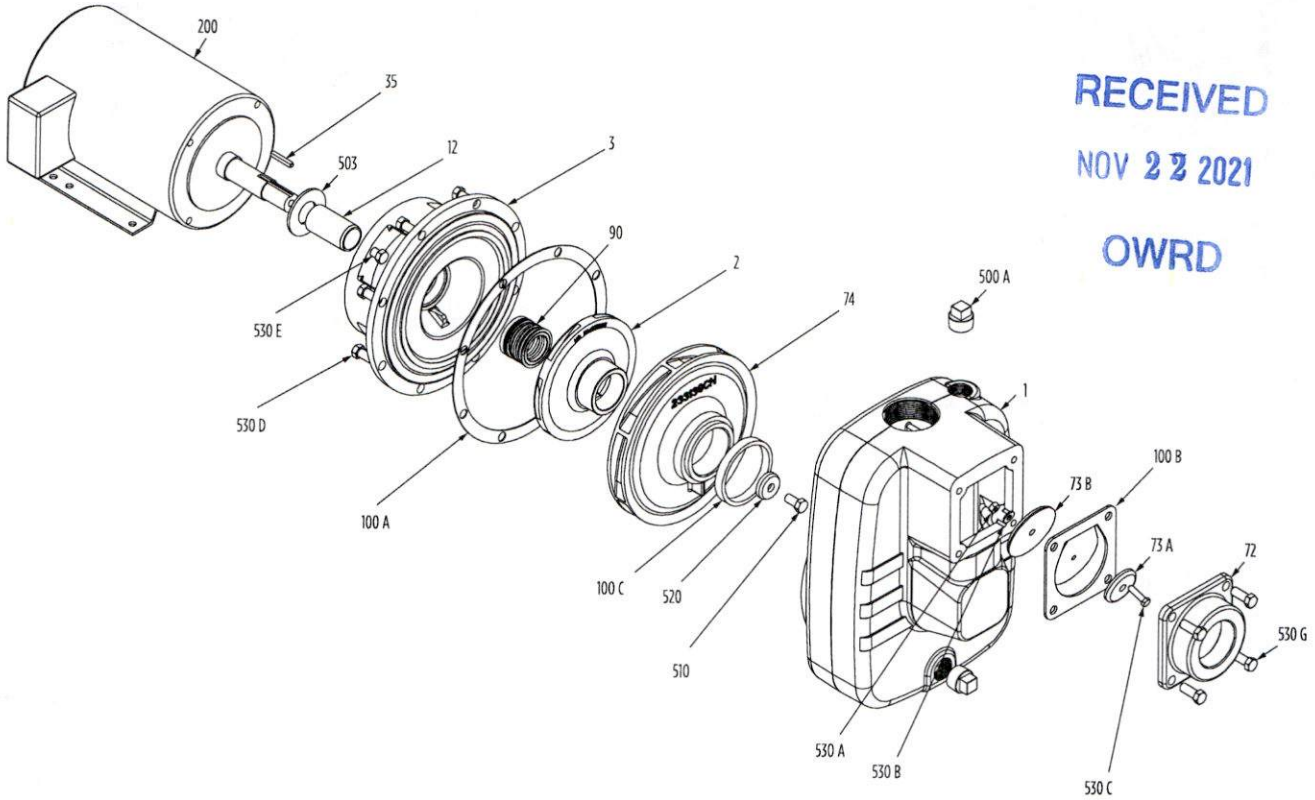
NOTE: Dimensions are for estimating purposes only

# CENTRIFUGAL PUMPS

SELF-PRIMING TURF BOSS 3-5 HP



## REPAIR PARTS



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# CENTRIFUGAL PUMPS

## SELF-PRIMING TURF BOSS 3-5 HP



### REPAIR PARTS

Fig. No.	Part Description	Part No.		Materials of Construction	
		3 HP	5 HP	3 HP	5 HP
1	Pump Case	305461011		Cast iron, ASTM-A48 CL30	
2	Impeller	305453025	305453026	Cast iron, ASTM-A48 CL30	304 Stainless steel
3	Motor Adapter	305461012		Cast iron, ASTM-A48 CL30	
12	Mechanical Seal Shaft Sleeve	305463011		416 Stainless steel	
35	Shaft Key	305453028	305451003	301 Stainless steel	
72	Check Valve	305455010	305460018	Cast iron, ASTM-A48 CL30	
73A	Top Weight, Check Valve	305455011		Cast iron, ASTM-A48 CL30	
73B	Bottom Weight, Check Valve	305455012		Cast iron, ASTM-A48 CL30	
74	Diffuser	305460019		Cast iron, ASTM-A48 CL30	
90	Mechanical Shaft Seal	305457011		Carbon/ceramic x FKM/stainless steel	
100A	Case Gasket	305461013		Nitrile	
100B	Flapper Valve	305454043		Neoprene	
100C	Square-Ring, Volute	305463131		Nitrile	
200	Motor	See Motor section		Misc.	
500	Pipe Plug, 3/4" (2 req.)	305463050		CAD-plated steel	
503	Water Slinger	305453030		Neoprene	
510	Bolt, Impeller	305461014		416 Stainless steel	
520	Washer, Impeller	305448013	305455014	417 Stainless steel	
530A	Nut, Flapper	305463082		300 Stainless steel	
530B	Washer, Flapper	305463084		300 Stainless steel	
530C	Bolt, Flapper	305463080		316 Stainless steel	
530D	Hex Bolts, Volute (8 pack)	305463064		Zinc-plated steel	
530E	Hex Bolt, Motor Adapter (4 req.)	305463120	305463121	Zinc-plated steel	
530G	Hex Bolt, Check Valve	305463010		Zinc-plated steel	

### REPLACEMENT MOTORS

RPM	ENCL	PH	Volts	HP	Mtr S.F.	SFA	Frame	Motor Code	Motor Number	Wgt. Lbs.	
3600	ODP	1	115/230	3	1.15	33.4/16.7	182JM	JM-1	305374930	70	
			230	5	1.15	25.3	184JM	JM-1	305374931	78	
		3	230/460	3	1.15	8.4/4.2	145JM	JM-1	104236202	49	
				5	1.15	13.8/6.9	182JM	JM-1	104236204	64	
		TEFC	1	115/230	3	1.15	33.4/16.7	182JM	JM-1	107026029	79
				230	5	1.15	19.0	184JM	JM-1	104220002	93
	3		230/460	3	1.15	8.2/4.1	145JM	JM-1	104238202	54	
				5	1.15	13.4/6.7	184JM	JM-1	104238204	79	
			575	3	1.15	3.3	145JM	JM-1	104224201	50	
				5	1.15	5.4	184JM	JM-1	104224202	74	

### MOTOR FIT CODE

Motor Fit Code	Flange Rabbet, AK	Shaft End Diameter, U	Shaft Length	Fits Motor Frame
JM-1	4.5	0.875"	4.25"	143-145-182-184

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PHONE (602) 437-9530  
WWW.EWING1.COM

#10244

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\*\* CASH \* SALE \*\*\* 154 EWING, GRANTS PASS ORDER NUMBER 3028985-A- 1  
 ORDER CONFIRMED \* 906 S.W. 6TH ST. PAGE 1-  
 GRANTS PASS 975262908 ORDERED 3/24/2016 9:24AM  
 PHN (541)479-5524 FAX (541)476-2136 REQUESTED 3/24/2016  
 SOLD TO: CASH SALE AG NON-TAX GRANTS PA SHIP TO: RON  
 # 1014961 906 SW 6TH ST 541-761-5828  
 GRANTS PASS OR 97526  
 (541)479-5524  
 SPECIAL INSTRUCTIONS: \_\_\_\_\_

PO#: \_\_\_\_\_ BUYR: \_\_\_\_\_ PH: \_\_\_\_\_ VIA:W/C  
 JOB: WATER EIP#: \_\_\_\_\_ BY: LANNY S QUOTE#: \_\_\_\_\_

QTY ORDER	SUG SHIP	QTY SHIP	QTY B/O	ITEM	DESCRIPTION	LIST	NET	EXTENSION	LIN #
1	:	:	:	METER @ PUMP #1 10244	:48803200 WM-200-10-RS 2IN WATERMETER	725.00	435.000	435.00	1
20	:	20	:	10300	:07000470 2-1/2 SCH 40 PVC BE PIPE	389.38	163.540	32.71	2
								IN-BOUND FREIGHT SURCHARGE	.48

ORDER CONTAINS SPECIAL ORDER NON STOCKING ITEM(S)  
 RETURN SUBJECT TO ADMINISTRATIVE APPROVAL

\* PURCHASED PUMP #2 AT SAME TIME BUT LOST INVOICE.

\* NOTE: IN 2016 THE METER ON PUMP #1 WAS MOVED TO PUMP #2 SINCE IT IS IN A.C. FT. PUMP #2 IS A LARGER PUMP

O CASH REFUNDS

ny Credit for Material Returned will be Applied  
 gainst Future Purchases or Account Balance

SUB TOTAL 468.19

AYMENTS: TYPE REFERENCE AMOUNT  
 \_\_\_\_\_  
 \_\_\_\_\_

TAX  
 FREIGHT  
 LABOR  
 HANDLING  
 TOTAL 468.19

FIRM \_\_\_\_\_

BY \_\_\_\_\_

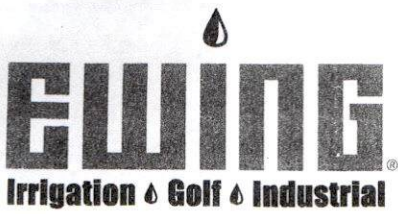
#CARTONS : TOTAL LBS. : TRACKING NUMBER

FILLED BY : DATE

DEL BY : DATE

3/24/2016 9:26:17

CUSTOMER COPY



GENERAL OFFICE:  
3441 EAST HARBOUR DR.  
PHOENIX, AZ 85034  
PHONE (602) 437-9530  
WWW.EWING1.COM

# 10244

\*\*\* CASH \* SALE \*\*\* 154 EWING GRANTS PASS ORDER NUMBER 7696558-A- 1  
\* ORDER CONFIRMED \* 906 S.W. 6TH ST. PAGE 1  
GRANTS PASS 975262908 ORDERED 5/06/2013 12:06PM  
PHN (541)479-5524 FAX (541)476-2136 REQUESTED 5/06/2013

SOLD TO: CASH SALE NON-TAX GRANTS PASS SHIP TO: RON  
# 07387 906 SW 6TH ST  
GRANTS PASS OR 97526  
(541)479-5524

SPECIAL INSTRUCTIONS:

PO#: BUYER: PH#: VIA: W/C  
JOB NAME: RON EIP#: BY: RONNIE F QUOTE#:

QTY ORDER	SUG SHIP	QTY SHIP	QTY B/D	ITEM DESCRIPTION	LIST	NET	EXTENSION	LIN #
1	1			<b>PUMP #1</b> : 10244 : 66014615 1.5HP MULTISTAGE 30FMM1554	1269.00	761.400	761.40	1
1				<b>METER @ PUMP #2</b> : 10300 : 99000000 ARAD METAFILM	404.30	404.300	404.30	2

ORDER CONTAINS SPECIAL ORDER NON STOCKING ITEM(S)  
RETURN SUBJECT TO ADMINISTRATIVE APPROVAL

**NOTE: THIS METER WAS INITIALLY @ PUMP #1  
THEN MOVED TO PUMP #2 IN 2016  
SINCE IT READS IN A.F. ON LARGER PUMP**

C48M2EC11C3

30WMH1554

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NO CASH REFUNDS  
Any Credit for Material Returned will be Applied  
against Future Purchases or Account Balance

SUB TOTAL 1165.70

PAYMENTS: TYPE REFERENCE AMOUNT

TAX  
FREIGHT  
LABOR  
HANDLING  
TOTAL \$1165.70

FIRM *X Ron J. Bruce*

BY

# CARTONS : TOTAL LBS. : TRACKING NUMBER

FILLED BY : DATE

DEL BY : DATE

5/06/2013 12:08:29

Date	Description	Qty	Unit Price		Amount
			Cost	Per	
03/02/2019	139E101804  This bill is in association with the Applegate Reservoir 2019 Irrigation Season.  Acre Feet 12.6 x \$8.00 = \$100.80  For questions regarding your contract, please contact Bill Parks at (208) 378-5344.  <i>BOR. PAYMENT 2019</i> <i>PAID 3-7-2019 CHK. #1021</i>	1	100.80	1	100.80

Amount Due this Bill: 100.80

Pursuant to the Debt Collection Act of 1982, (codified at 31 U.S.C. 3717) Interest will be assessed at the rate of 1.00 % on any unpaid balance if full payment is not made by the date of delinquency. A penalty charge of 6.00 % per annum will be charged on the unpaid portion of the debt, which remains unpaid 90 days after the date of delinquency. Additional administrative fee(s) of \$10.00(ea) will be assessed when a dunning notice(s) is issued. See notice of actions in the event of delinquency.

Accounting Classification:

WBS RX.ACEF6002.2000000	Cost Center RR01022000	Fund XXXR3220GH	Functional Area RACEF0000.000000	SGL.CI 5900.Y41000
----------------------------	---------------------------	--------------------	-------------------------------------	-----------------------

Customer: 4000078583  
Bill #: 1802217178  
TIN:

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Condition D of Permit



# Oregon

John A. Kitzhaber, MD, Governor

## Department of Fish and Wildlife

Rogue Watershed District Office

1495 East Gregory Road

Central Point OR 97502

(541) 826-8774

(541) 826-8776

dfw.state.or.us

April 29, 2013



Ron Bruce  
10300 North Applegate Rd.  
Grants Pass, OR 97527

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Dear Ron,

Regarding WRD water right permit S-54812, ODFW has determined that fish screening and bypass will be provided by an ODFW-maintained device already in place within the Northside Ditch.

Sincerely,

Rich Kilbane  
SW Field Coordinator  
Fish Screening and Passage Program

(541) 826-8774 ext. 243





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PUMP #2

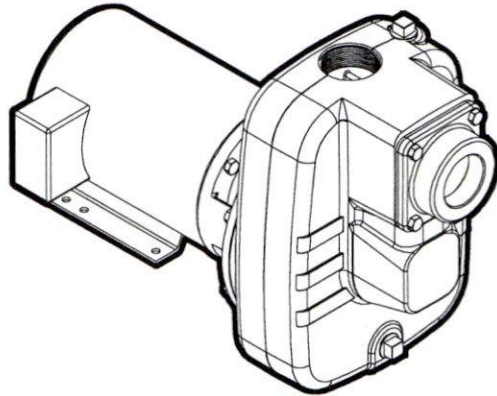
# CENTRIFUGAL PUMPS

## SELF-PRIMING TURF BOSS 3-5 HP



### FEATURES

- Volute: Built-in suction check valve facilitates priming and prevents back flow or siphoning
- Impeller: Cast iron; combines efficient operation with durable construction to allow for use in a broad range of pumping applications
- Seal: Standard carbon/ceramic faces; FKM elastomers; 300 series stainless steel components
- Diffuser: Cast iron is utilized in all models to improve pump efficiency
- Motor: Standard JM frame



### SPECIFICATIONS

- Capacities to 160 gpm
- Heads to 170 feet
- 75 psi maximum working pressure
- 120 °F maximum temperature
- Clockwise rotation when viewed from motor end
- NPT pipe connections

HP	Discharge	Suction
3	2"	2"
5	2"	2-1/2"

### APPLICATIONS

- Irrigation
- Construction
- Commercial
- Municipal
- Light Industrial
- Residential
- Water Transfer

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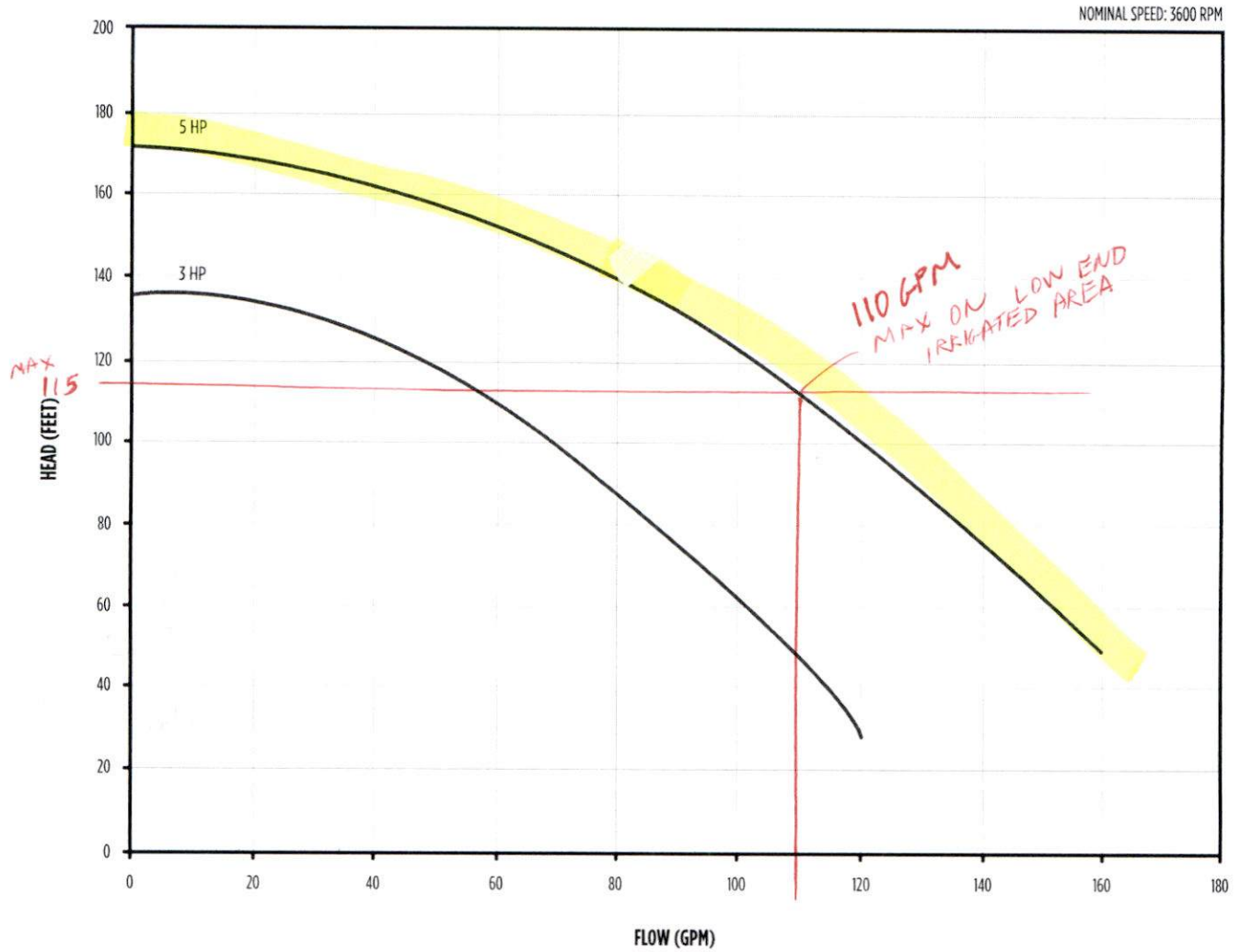
Franklin Electric

# CENTRIFUGAL PUMPS

SELF-PRIMING TURF BOSS 3-5 HP



## PERFORMANCE



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PUMP # 2

# CENTRIFUGAL PUMPS

SELF-PRIMING TURF BOSS 3-5 HP



## ORDER INFORMATION

Model	ECNL	HP	Pump Size (Suc. x Dis.)	Phase	Volts	SFA	Pump Unit	
							Order No.	Wt. (lbs)
FTB3CI	ODP	3	2" x 2"	1	115/230	33.4/16.7	92980030	120
FTB3CI-E	TEFC	3	2" x 2"	1	115/230	33.4/16.7	92980130	123
FTB3CI-T	ODP	3	2" x 2"	3	230/460	8.4/4.2	92980035	93
FTB3CI-TE	TEFC	3	2" x 2"	3	230/460	8.2/4.1	92980135	94
FTB3CI-TSE	TEFC	3	2" x 2"	3	575	3.3	92980136	94
FTB5CI	ODP	5	2-1/2" x 2"	1	230	25.3	92980050	135
FTB5CI-E	TEFC	5	2-1/2" x 2"	1	230	19	92980150	140
FTB5CI-T	ODP	5	2-1/2" x 2"	3	230/460	13.8/6.9	92980055	111
FTB5CI-TE	TEFC	5	2-1/2" x 2"	3	230/460	13.4/6.7	92980155	128
FTB5CI-TSE	TEFC	5	2-1/2" x 2"	3	575	5.4	92980156	121

## PUMP END KITS

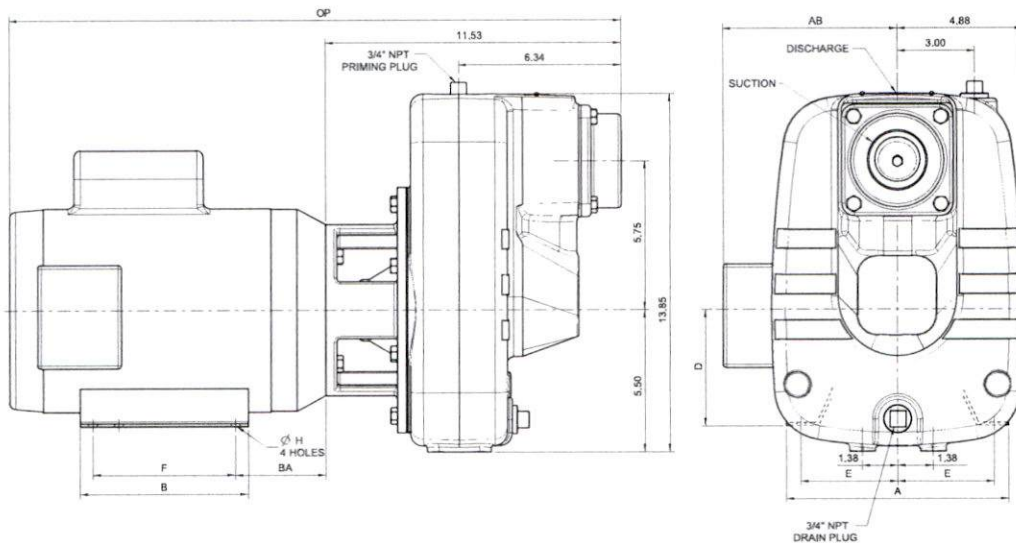
Model	HP	Pump Size (Suc. x Dis.)	Pump Unit	
			Order No.	Wt. (lbs)
FTB3CI-PE	3	2" x 2"	92980033	60
FTB5CI-PE	5	2-1/2" x 2"	92980053	

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## DIMENSIONS



Model	Enclosure	Pump Size (SUC. X DIS)	Dimensions (in.)								
			A	B	D	E	F	H	AB	BA	OP
FTB3CI	ODP	2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.75	3.50	23.78
FTB3CI-E	TEFC	2" X 2"	8.63	6.50	4.50	3.75	5.50	0.44	6.87	3.50	29.59
FTB3CI-T	ODP	2" X 2"	6.50	5.94	3.50	2.75	5.00	0.34	5.62	2.88	22.41
FTB3CI-TE	TEFC	2" X 2"	6.50	5.94	3.50	2.75	5.00	0.38	5.74	2.88	23.57
FTB3CI-TSE	TEFC	2" X 2"	6.50	5.94	3.50	2.75	5.00	0.38	5.74	2.88	23.57
FTB5CI	ODP	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.75	3.51	23.78
FTB5CI-E	TEFC	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.45	6.87	3.50	26.83
FTB5CI-T	ODP	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.74	3.50	23.78
FTB5CI-TE	TEFC	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.87	3.50	25.34
FTB5CI-TSE	TEFC	2 1/2" X 2"	8.63	6.50	4.50	3.75	5.50	0.41	6.87	3.50	25.34

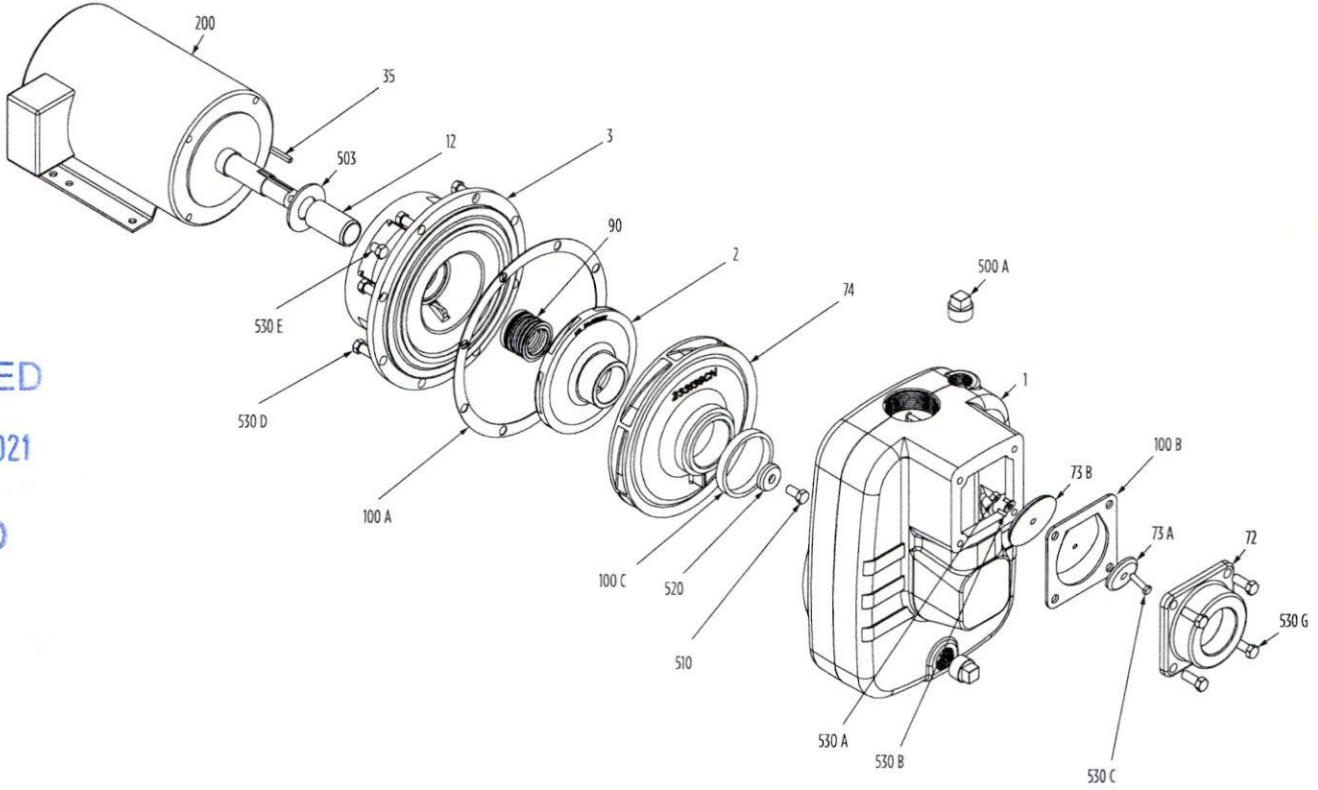
NOTE: Dimensions are for estimating purposes only

# CENTRIFUGAL PUMPS

SELF-PRIMING TURF BOSS 3-5 HP



## REPAIR PARTS



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# CENTRIFUGAL PUMPS

SELF-PRIMING TURF BOSS 3-5 HP



## REPAIR PARTS

Fig. No.	Part Description	Part No.		Materials of Construction
		3 HP	5 HP	
1	Pump Case	305461011		Cast iron, ASTM-A48 CL30
2	Impeller	305453025	305453026	Cast iron, ASTM-A48 CL30
3	Motor Adapter	305461012		Cast iron, ASTM-A48 CL30
12	Mechanical Seal Shaft Sleeve	305458011		416 Stainless steel
35	Shaft Key	305453028	305451003	301 Stainless steel
72	Check Valve	305455010	305460018	Cast iron, ASTM-A48 CL30
73A	Top Weight, Check Valve	305455011		Cast iron, ASTM-A48 CL30
73B	Bottom Weight, Check Valve	305455012		Cast iron, ASTM-A48 CL30
74	Diffuser	305460019		Cast iron, ASTM-A48 CL30
90	Mechanical Shaft Seal	305457011		Carbon/ceramic x FKM/stainless steel
100A	Case Gasket	305461013		Nitrile
100B	Flapper Valve	305454043		Neoprene
100C	Square-Ring, Volute	305463131		Nitrile
200	Motor	See Motor section		Misc.
500	Pipe Plug, 3/4" (2 req.)	305463050		CAD-plated steel
503	Water Slinger	305453030		Neoprene
510	Bolt, Impeller	305461014		416 Stainless steel
520	Washer, Impeller	305448013	305455014	417 Stainless steel
530A	Nut, Flapper	305463082		300 Stainless steel
530B	Washer, Flapper	305463084		300 Stainless steel
530C	Bolt, Flapper	305463080		316 Stainless steel
530D	Hex Bolts, Volute (8 pack)	305463064		Zinc-plated steel
530E	Hex Bolt, Motor Adapter (4 req.)	305463120	305463121	Zinc-plated steel
530G	Hex Bolt, Check Valve	305463010		Zinc-plated steel

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# NOTES

SELF-PRIMING TURF BOSS 3-5 HP



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CERT. # 90054

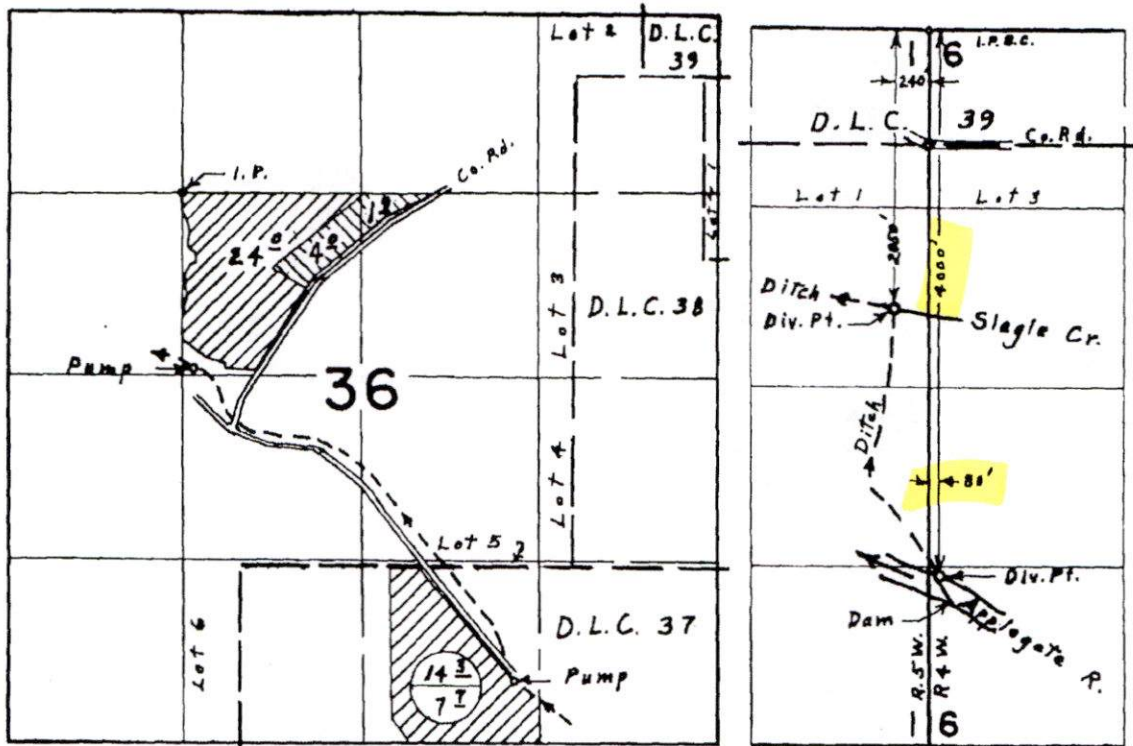
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NOV 22 2021

T.37S. R.5W. W.M.

OWRD

T.38S. R.4&5W. W.M.



Primary  
Supplemental



**FINAL PROOF SURVEY**  
UNDER

RECEIVED BY OWRD

NOV 24 2014

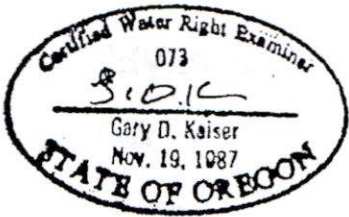
Application No. 42776 Permit No. 31281  
IN NAME OF

SALEM, OR

**NORTH SIDE APPLGATE RIVER DITCH CO., INC.**

May 16 1975  
Surveyed Sept. 16 1974, by Larry M. Toll





T.37S., R.5W., W.M.  
 Josephine County, Oregon  
 Tax Lot No. 37-5-36 - 1600  
 ROGUE RIVER BASIN

MAP 2 OF 3

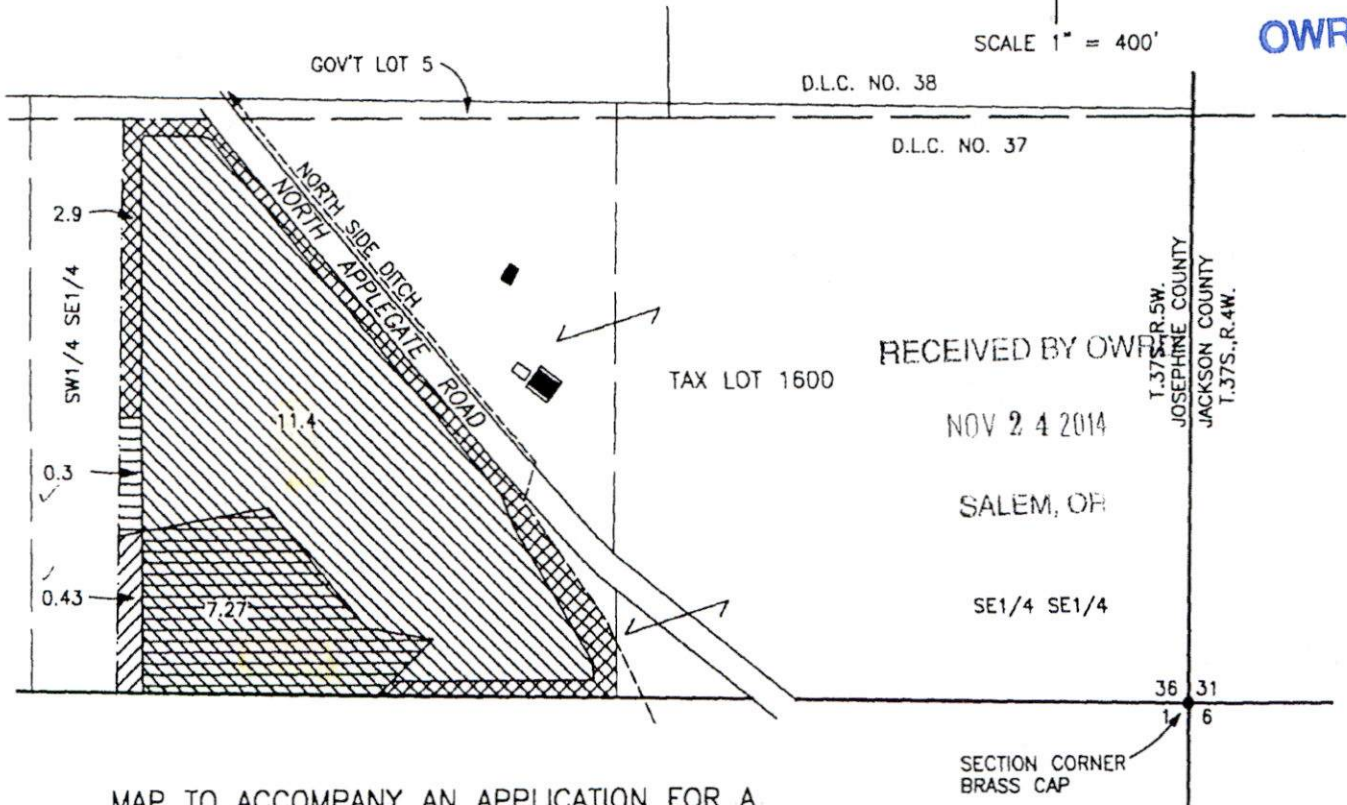
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SCALE 1" = 400'



MAP TO ACCOMPANY AN APPLICATION FOR A WATER RIGHT TRANSFER, CHANGE IN PLACE OF USE, THE FROM PROPERTY

MAP PREPARED FOR:  
 PADRE PROPERTIES, LLC  
 RICHARD M. BRADEN, MEMBER  
 P.O. BOX 1032  
 HUGHSON, CA. 95326

PREPARED BY:  
 GARY D. KAISER, CWRE No.73  
 19440 HWY. No. 62  
 EAGLE POINT, OR. 97524

AUGUST 13, 2014

RECEIVED BY OWRD

NOV 04 2014

SALEM, OR

----- = PROJECTED 40 LINES WITHIN BOUNDARIES OF D.L.C. NOS. 37 & 38

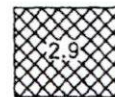
NOTES:  
 MAP PREPARED FOR WATER RIGHTS PURPOSES ONLY, NOT FOR PROPERTY BOUNDARY LOCATION.



= NO CHANGE, CERT. 32830 PRIMARY, AND CERT. 44830 SUPPLEMENTAL



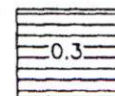
= NO CHANGE, CERT. 44830 PRIMARY



= PORTION OF CERT. 32830 PRIMARY AND CERT. 44830 SUPPLEMENTAL BEING TRANSFERRED TO 7.1 AC. UNIRRIGATED LAND ON TAX LOT 384W06-601 FOR STRIP IRRIGATION



= PORTION OF CERT. 44830 PRIMARY BEING TRANSFERRED TO 7.1 AC. UNIRRIGATED LAND ON TAX LOT 384W06-601 FOR STRIP IRRIGATION



= PORTION OF CERT. 32830 PRIMARY BEING TRANSFERRED TO 7.1 AC. UNIRRIGATED LAND ON TAX LOT 384W06-601 FOR STRIP IRRIGATED