

# RECORD OF SURVEY

## "ELK EA CADASTRAL SURVEY"

### USDA FOREST SERVICE

### UMPQUA NATIONAL FOREST

### TILLER RANGER DISTRICT

### CONTRACT NO. AG-04H1-C-14-0008

### TASK ORDER NO. 1204T018F0072

### LOCATED IN

### SECTION 33, T.31S., R.1W., W.M.

### DOUGLAS COUNTY, OREGON

FILED  
 Date: 10-29-19 By: *AD*  
 This Survey Consists of:  
 Map: M171-70  
 Narrative:  
 Corner Rpt.:  
 DOUGLAS COUNTY SURVEYOR

#### CORNER DESCRIPTIONS:

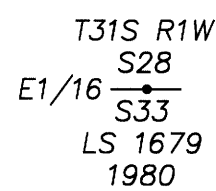
ALL NEW BEARING TREES HAVE DOUBLE BLAZED FACES WITH A 1" BRASS WASHER STAMPED "DEGROOT PLS89398" NAILED INTO THE LOWER BLAZE. ON ALL NEW AND EXISTING BEARING TREES, BEARINGS ARE TAKEN TO THE CENTER OF THE TREE AT THE ROOT CROWN AND DISTANCES ARE MEASURED TO A MAG-HUB CHAINING NAIL IN THE ROOT CROWN AT THE SIDE AND CENTER OF THE TREE WITH A TOTAL STATION. ALL BEARING TREES HAVE A 6" RED BAND PAINTED AROUND THE TREE AND THE BLAZED FACES PAINTED RED, WITH 54-3 "BEARING TREE" SIGNS NAILED AT ±5 FT HIGH FACING THE CORNER, AND 54-4 "ATTENTION" OR 54-9 "LSM" SIGNS NAILED AT ±7 FT HIGH ON THE BACKSIDE OF THE TREE.

1. S27/S28/S33/S34 PLSS NO. T31SR1W 400200 INDEX FILE NO. V-13  
 FD. A 2" US GLO IRON POST BY FRED MENSCH, US CADASTRAL ENGINEER, IN 1922, FIRMLY SET AND PROJECTING 13" ABOVE GROUND, LEANING N.30°W., ±0.5' FROM PLUMB, WITH A 2 1/2" BRASS CAP PROPERLY MKD. PER THE RECORD:

FROM WHICH THE REMAINING ORIGINAL 1857 BEARING TREES:  
 A 22" MAPLE BEARS S.30°45'E., 31.1 FT W/HEALED BLAZE [S.33°E., 49 LKS]R1 [S.31°E., 48 LKS]R2  
 (S.31°E., 31.7')R3-R4 (S.30°41'E., 22.6')R5 (S.30°45'E., 31.1')R8

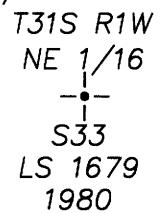
AND A BEARING TREE BY DCSO IN 1968:  
 A 31" D. FIR BEARS N.69°45'W., 17.0 FT W/HEALED DBL BLAZE (N.68°W., 17.3')R3-R4 (N.69°29'W., 16.9')R5 (N.69°45'W., 17.1')R8  
 AND A BEARING TREE BY GARRETT IN 1975:  
 A 21" W. FIR SNAG BEARS N.30°30'E., 41.6 FT W/HEALED DBL BLAZE (N31°E., 42.0')R4 (N.30°24'E., 42.1')R5 (N.30°E., 41.6')R8  
 AND BEARING TREES BY RANSOM-USFS IN 2014:  
 A 13" FIR BEARS N.54°15'E., 61.8 FT W/HEALED DBL BLAZE (N.53°45'E., 61.8')R8  
 A 13" FIR BEARS S.45°45'W., 10.4 FT W/PART. HEALED PITCHED OVER DBL BLAZE (S.45°45'W., 10.3')R8

2. E 1/16 S28/S33 PLSS NO. T31SR1W 360200 INDEX FILE NO. V-12  
 FD. A 2 1/4" IRON POST BY KURT C. WEAVER, PLS 1679, IN 1980 PER M 82-15 A & B, FIRMLY SET AND PROJECTING 8" ABOVE GROUND IN A 24" DIAM. STONE MOUND, ON A STEEP NORTH SLOPE, WITH A 2 1/2" BRASS CAP MKD:



FROM WHICH THE 1980 BEARING TREES:  
 A 23" D. FIR BEARS S.76°30'E., 15.4 FT W/HEALED DBL BLAZE (S.77°52'E., 15.9')R5  
 A 19" W. FIR BEARS N.10°45'W., 23.2 FT W/HEALED DBL BLAZE (N.11°12'W., 23.1')R5

3. NE 1/16 S33 PLSS NO. T31SR1W 360160 INDEX FILE NO. W-12  
 FD. A 2 1/4" IRON POST BY KURT C. WEAVER, PLS 1679, IN 1980 PER M 82-15 A & B, FIRMLY SET AND PROJECTING 8" ABOVE GROUND IN A 18" STONE COLLAR, WITH A 2 1/2" BRASS CAP MKD:



FROM WHICH THE 1980 BEARING TREES:  
 A 22" P. PINE BEARS N.80°45'E., 8.3 FT W/HEALED DBL BLAZE (N.80°54'E., 8.2 FT)R5  
 A 12" D. FIR SNAG BEARS S.30°15'E., 6.0 FT W/HEALED DBL BLAZE (S.29°18'E., 6.2 FT)R5  
 AND A NEW BEARING TREE:  
 A 8" D. FIR BEARS N.67°W., 48.4 FT SCRIBED "NE1/16S33 BT" ON A DBL BLAZE

CORNER FALLS IN THE E-W FENCE LINE.

4. N 1/16 S33/S34 PLSS NO. T31SR1W 400160 INDEX FILE NO. W-13  
 FD. A 2 1/4" IRON POST BY KURT C. WEAVER, PLS 1679, IN 1980 PER M 82-15 A & B, FIRMLY SET, FLUSH WITH THE TOP OF A 24" DIAM. MOUND OF STONE, WITH A 2 1/2" BRASS CAP PROPERLY MKD PER THE RECORD:

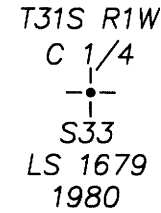
FROM WHICH THE 1980 BEARING TREES:  
 A 24" D. FIR BEARS N.26°45'W., 20.2 FT W/HEALED DBL BLAZE (N.26°25'W., 20.4')R5  
 THE ROOT HOLE OF A DOWN 11" B. OAK BEARS RECORD (S.82°52'E., 16.4 FT)R5 (16.6 FT)R6  
 AND A BEARING TREE BY KRIS DEGROOT IN 1992:  
 A 18" D. FIR BEARS N.74°E., 13.9 FT W/ HEALED DBL BLAZE (N.75°E., 14.6')R6

CORNER FALLS IN THE E-W FENCE LINE, ±5 FEET WEST OF EXISTING FENCE CORNER. THE 5/8" IRON PIN REFERENCED IN M 82-15 IS A 5/8" SMOOTH COPPER COATED GROUNDING ROD, PROJECTING 3 FEET ABOVE GROUND. I DO NOT RE-TIE.

5. N-N-N 1/256 S33/S34 PLSS NO. T31SR1W 400175 INDEX FILE NO. V.25-13  
 FD. A 2 1/4" IRON POST BY KURT C. WEAVER, PLS 1679, IN 1980 PER M 82-15 A & B, FIRMLY SET AND PROJECTING 4" ABOVE GROUND IN A 24" DIAM. STONE COLLAR, WITH A 2 1/2" BRASS CAP PROPERLY MKD PER THE RECORD:

FROM WHICH THE 1980 BEARING TREES:  
 A 18" D. FIR BEARS N.9°E., 22.2 FT W/HEALED DBL BLAZE (N.10°23'E., 22.2')R5  
 A 25" D. FIR BEARS S.50°45'W., 14.4 FT W/HEALED DBL BLAZE (S.50°58'W., 14.4')R5

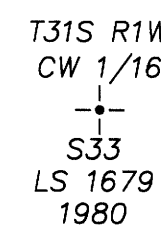
6. C 1/4 PLSS NO. T31SR1W 340140 INDEX FILE NO. X-11  
 FD. A 2 1/4" IRON POST BY KURT C. WEAVER, PLS 1679, IN 1980 PER M 82-15 A & B, FIRMLY SET AND PROJECTING 10" ABOVE GROUND, WITH A 2 1/2" BRASS CAP MKD:



FROM WHICH THE 1980 BEARING TREES:  
 A 16" D. FIR BEARS S.77°15'E., 12.6 FT W/HEALED DBL BLAZE (S.76°52'E., 13.0')R5  
 A 19" D. FIR BEARS S.15°W., 35.4 FT W/HEALED DBL BLAZE (S.15°08'W., 35.5')R5  
 AND NEW BEARING TREES:  
 A 10" D. FIR BEARS S.67°15'W., 17.8 FT SCRIBED "C1/4S33 BT" ON DBL BLAZE  
 A 10" CEDAR BEARS N.42°45'W., 50.6 FT SCRIBED "C1/4S33 BT" ON DBL BLAZE

CORNER FALLS AT THE CORNER OF N-S-E FENCES. THERE IS NO EVIDENCE OF THE 5/8" IRON ROD AT THE M 82-15 COMPUTED POSITION.

7. CW 1/16 PLSS NO. T31SR1W 320140 INDEX FILE NO. X-10  
 FD. A 2 1/4" IRON POST BY KURT C. WEAVER, PLS 1679, IN 1980 PER M 82-15 A & B, FIRMLY SET AND PROJECTING 8" ABOVE GROUND IN A 24" DIAM. STONE MOUND, WITH A 2 1/2" BRASS CAP MKD:



FROM WHICH THE 1980 BEARING TREES:  
 A 14" W. OAK BEARS N.41°E., 32.3 FT W/HEALED DBL BLAZE (N.40°51'E., 32.4')R5  
 A 10" W. OAK BEARS N.54°30'W., 11.7 FT W/HEALED DBL BLAZE (N.54°16'W., 11.7')R5  
 AND A REFERENCE MONUMENT:  
 A 1/2" IRON PIPE IN THE E-W FENCE LINE BEARS S.49°40'53"W., 26.03 FT

#### NARRATIVE:

THE PURPOSE OF THIS SURVEY IS TO RETRACE THE UMPQUA NATIONAL FOREST BOUNDARY LOCATED IN THE NE1/4-NE1/4 AND NE1/4-SW1/4, SECTION 33, T.31S., R.1W., W.M.; AND TO MAINTAIN THE BOUNDARY LINES, CORNER MONUMENTS, AND ACCESSORIES TO USDA FOREST SERVICE CONTRACT STANDARDS.

#### BOUNDARY CONTROL:

I ACCEPT ALL CORNERS IN THEIR CURRENT POSITIONS AS MONUMENTED UNDER M 82-15, AND MARK TRUE LINE BETWEEN SAID MONUMENTS. ALL BOUNDARY LINES RETRACED HAD PREVIOUSLY BEEN POSTED UNDER M 82-15 AND BY FOREST SERVICE PERSONNEL OR CONTRACTORS UNDER UN-FILED FORCE ACCOUNT WORK. MOST OF THE EXISTING ORIGINAL CARBONITE FIBERGLASS POSTS WERE IN POOR CONDITION, UNABLE TO BE BROUGHT TO PLUMB DUE TO THE BROKEN BACK RIBS. TO MAINTAIN THE BOUNDARY I REMOVE THESE POSTS AND SET NEW 6 FT ALUMINUM POST AND 54-2 BOUNDARY SIGNS INTERVISIBLY AT NO MORE THAN ±250 FT INTERVALS. TREES WITHIN 3-5 FT OF THE BOUNDARY ARE BLAZED WITH QUARTER BLAZES ON USFS TREES, AND ONE FACING BLAZE ON PRIVATE TREES, WITH HACK MARKS ABOVE AND BELOW EACH BLAZE. LINE TREES ARE BLAZED WHERE LINE PASSES THROUGH TREE AT BREAST HEIGHT, WITH THREE BLAZES ON EACH SIDE OF TREE. ALL BLAZES ARE PAINTED RED.

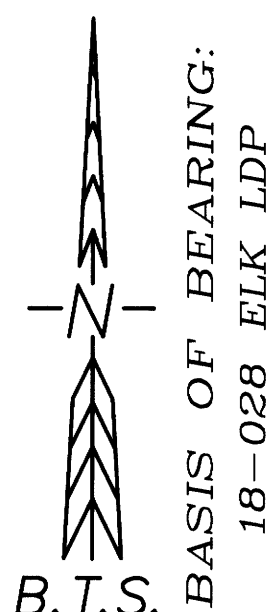
#### SURVEY CONTROL PROCEDURE:

A STATIC GPS SURVEY WAS PERFORMED WITH LEICA 1200 GPS RECEIVERS AND UTILIZING NGS CORS STATIONS THROUGH OPUS SOLUTIONS ON PROJECT CONTROL POINTS. THE GPS BASELINES OBSERVED TO PROJECT CONTROL POINTS WERE PROCESSED AND ADJUSTED WITH LEICA GEO OFFICE. THE RESULTANT GEODETIC COORDINATES WERE THEN PROJECTED ONTO THE BELOW DEFINED COORDINATE SYSTEM. CONVENTIONAL TRAVERSES WERE RUN ALONG THE BOUNDARY BETWEEN THE GPS CONTROL POINTS WITH A LEICA TCPR1203 TOTAL STATION, AND ADJUSTED IN LEICA GEO OFFICE BY THE METHOD OF LEAST SQUARES. THIS SURVEY WAS PERFORMED IN THE FIELD FROM NOVEMBER 6, 2018 TO APRIL 12, 2019 BY ADAM DEGROOT, RUSSELL BADGLEY, WYATT KEADY, AND TANNER STRONG, WITH COMPUTATIONS AND DRAFTING BY ADAM DEGROOT.

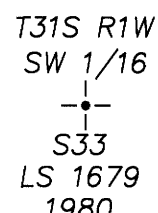
PROJECTION: TRANSVERSE MERCATOR  
 NAME: 18-028 ELK LDP  
 REFERENCE DATUM: NAD 83 (2011) (EPOCH 2010.00)  
 ELLIPSOID: GRS 1980  
 LATITUDE OF GRID ORIGIN: 42°48'00"N  
 CENTRAL MERIDIAN: 122°50'00"W  
 FALSE NORthing: 50,000.00 FTI  
 FALSE EASTING: 150,000.00 FTI  
 CENTRAL MERIDIAN SCALE: 1.000100 (EXACT)

#### NAD83 (2011) EPOCH 2010.00 GEODETIC COORDINATES:

STATION	LATITUDE	LONGITUDE
320120	42°49'56.39907"N	122°50'19.16836"W
320140	42°50'09.50521"N	122°50'19.20569"W
340120	42°49'56.38687"N	122°50'01.19384"W
340140	42°50'09.48849"N	122°50'01.26605"W
360160	42°50'22.57165"N	122°49'43.39933"W
360200	42°50'35.67327"N	122°49'43.47835"W
400160	42°50'22.51153"N	122°49'25.47760"W
400175	42°50'32.31195"N	122°49'25.55765"W
400200	42°50'35.57408"N	122°49'25.58346"W



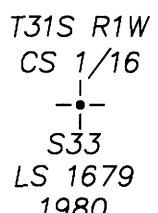
8. SW 1/16 PLSS NO. T31SR1W 320120 INDEX FILE NO. Y-10  
 FD. A 2 1/4" IRON POST BY KURT C. WEAVER, PLS 1679, IN 1980 PER M 82-15 A & B, FIRMLY SET AND PROJECTING 6" ABOVE GROUND, WITH A 2 1/2" BRASS CAP MKD:



FROM WHICH THE 1980 BEARING TREES:  
 A 9" W. OAK (SOUTH STEM OF TRIPLE OAK) BEARS S.84°E., 28.5 FT W/HEALED DBL BLAZE (S.82°31'E., 28.6')R5  
 A 20" P. PINE BEARS S.1°30'E., 70.4 FT W/ HEALED DBL BLAZE (S.1°21'W., 70.6')R5  
 AND A REFERENCE MONUMENT:  
 A 1/2" IRON PIPE BEARS S.20°30'43"W., 6.37 FT (S.21°08'48"W., 6.12')R5

CORNER FALLS ON THE WEST FACE OF A N-S FENCE LINE, 6 FT NORTH OF A 12" W. OAK FENCE CORNER, NORTH OF TISON ROAD AND WEST OF A FARM ACCESS ROAD.

9. CS 1/16 PLSS NO. T31SR1W 340120 INDEX FILE NO. Y-11  
 FD. A 2 1/4" IRON POST BY KURT C. WEAVER, PLS 1679, IN 1980 PER M 82-15 A & B, FIRMLY SET AND PROJECTING 6" ABOVE GROUND IN A 18" STONE COLLAR, WITH A 2 1/2" BRASS CAP MKD:



FROM WHICH THE 1980 BEARING TREES:  
 A 11" CEDAR BEARS N.87°30'E., 11.6 FT W/SCRIBED MKS "S1/16 S33" VIS. ON PARTIALLY HEALED DBL BLAZE (N.88°33'E., 11.7')R5  
 A 13" D. FIR BEARS S.4°45'W., 3.9 FT W/HEALED DBL BLAZE (S.3°35'W., 5.1')R5

CORNER FALLS ±16 FEET WEST OF A N-S FENCE LINE

#### SURVEY HISTORY:

[ ] R1 - US GLO ORIGINAL SURVEY OF T.31S., R.1W., W.M. BY DENNIS HATHORN, US DEPUTY SURVEYOR, UNDER CONTRACT NO. 73, DATED JUNE 8, 1857

[ ] R2 - US GLO COMPLETION SURVEY OF T.31S., R.1W., W.M. BY FRED MENSCH, US CADASTRAL ENGINEER, UNDER SPECIAL INSTRUCTIONS DATED JUNE 7, 1922 AS PERTAINING TO THIS SURVEY, MONUMENTS THE CORNER OF S27/S28/S33/S34 FROM ORIGINAL EVIDENCE

[ ] R3 - DOUGLAS COUNTY CORNER RECORDS C.S. FILE NO. 54/71 DCSO 1968 - RESETS 1922 MONUMENT AND PERPETUATES S27/S28/S33/S34 FROM ORIGINAL EVIDENCE

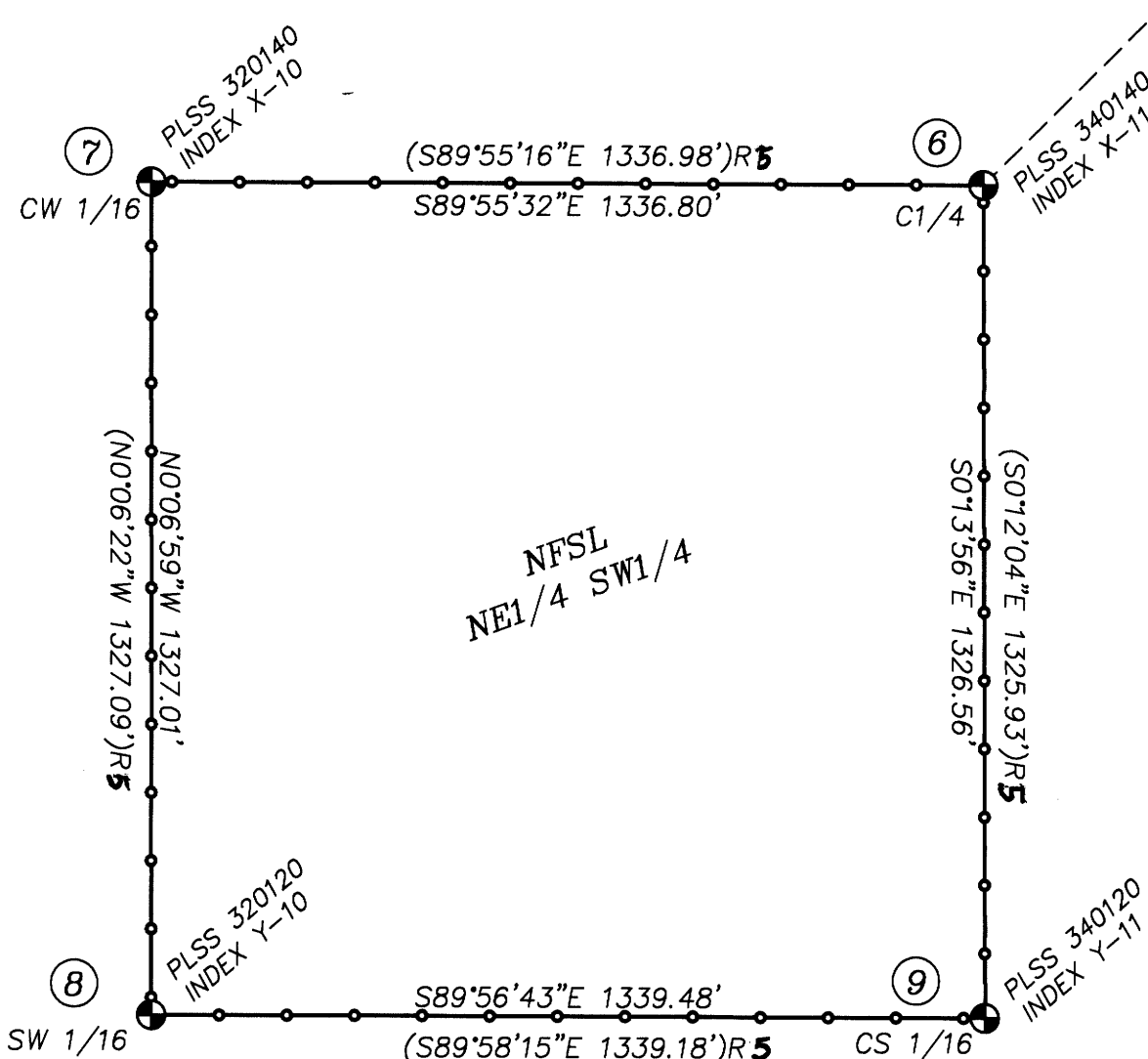
[ ] R4 - DOUGLAS COUNTY RECORD SURVEY M 58-7 BY DON E. GARRETT, PLS 544, IN AUGUST 1975 FOR THE U.S. FOREST SERVICE AS PERTAINING TO THIS SURVEY, MARKS A NEW BEARING TREE AT S27/S28/S33/S34

[ ] R5 - DOUGLAS COUNTY RECORD SURVEY M 82-15 A & B AND C.S. FILE NO. 58/216N BY KURT C. WEAVER, PLS 1679, IN JANUARY 1980 FOR THE U.S. FOREST SERVICE SUBDIVISION OF SECTION 33, T.31S., R.1W., W.M. MONUMENTS C 1/4, CW 1/16, SW 1/16, CS 1/16, NE 1/16, E 1/16 S28/S33, AND THE N 1/16 AND N-N-N 1/256 OF S33/S34. POSTS BOUNDARIES OF NE1/4 NE1/4, AND NE1/4 SW1/4

[ ] R6 - DOUGLAS COUNTY CORNER RECORDS C.S. FILE NO. 63/138-20 I BY KRISTIAN O. DEGROOT, PLS 1941, IN MAY 1992 FOR THE U.S. FOREST SERVICE RENEWS N 1/16 S33/S34 - MARKS NEW BEARING TREE

[ ] R7 - DOUGLAS COUNTY CORNER RECORDS C.S. FILE NO. 65/85-18 BY USFS - JOHN RANSOM, PLS 2561, DECEMBER 2013 CORNER REPORT ONLY OF N-N-N 1/256 S33/S34

[ ] R8 - DOUGLAS COUNTY CORNER RECORDS C.S. FILE NO. 65/95-15 BY USFS - JOHN RANSOM, PLS 2561, JULY 2014 RENEWS S27/S28/S33/S34 - MARKS TWO NEW BEARING TREES



#### LEGEND:

- = FOUND PLSS MONUMENT AND ACCESSORIES AS NOTED IN THE CORNER DESCRIPTIONS
- = EXISTING N.F. BOUNDARY MAINTAINED - BLAZED, PAINTED, & RE-POSTED
- Ⓝ = CORNER NUMBER - SEE CORNER DESCRIPTIONS
- NFSL = NATIONAL FOREST SYSTEM LANDS

#### CERTIFICATION:

I HEREBY CERTIFY THAT THIS SURVEY WAS PERFORMED AT THE REQUEST OF THE UMPQUA NATIONAL FOREST SUPERVISOR.

*Ain Carlton* 10-28-19  
 SIGNATURE DATE

EXAMINED AND ACCEPTED THIS 24<sup>TH</sup> DAY OF OCTOBER, 2019

*Rodney F. Callaghan*  
 RODNEY F. CALLAGHAN, C.O.R.

"I, ADAM DEGROOT, A REGISTERED LAND SURVEYOR IN THE STATE OF OREGON, HEREBY CERTIFY THAT THIS PLAT AND THE NOTES HEREON OR ATTACHED ARE A CORRECT REPRESENTATION OF THE SURVEY THAT I PERFORMED FROM NOVEMBER 6, 2018 TO APRIL 12, 2019 AT THE REQUEST OF THE USDA FOREST SERVICE, IN ACCORDANCE WITH THE STATUTES OF THE STATE OF OREGON AND THE ARTICLES OF MY CONTRACT."  
*Adam Degroot* 10-21-2019  
 ADAM DEGROOT DATE  
 OREGON REGISTERED LAND SURVEYOR #89398

REGISTERED PROFESSIONAL LAND SURVEYOR  
*Adam Degroot*  
 OREGON MAY 26, 2015  
 ADAM DEGROOT 89398  
 RENEWS: 12-31-2019

**BTS SURVEYING, INC.**  
 348 SE JACKSON ST., ROSEBURG, OR 97470  
 (541) 673-0968 adam@btssurveying.com

SCALE: 1" = 300'  
 FOR: USDA FOREST SERVICE REGION 6 UMPQUA NATIONAL FOREST TILLER RANGER DISTRICT  
 DATE: OCTOBER 21, 2019  
 JOB #: 18-028  
 FILE: EIKEA\_S33.DWG  
 SHEET 1 OF 1