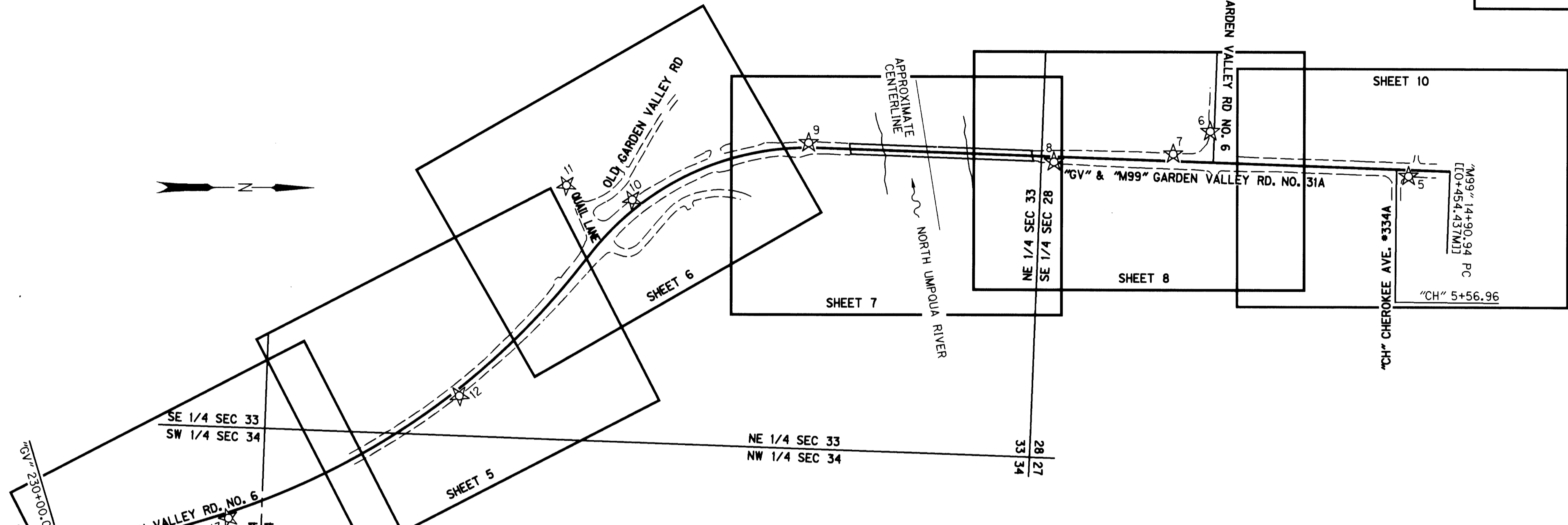


SHEET INDEX

1. SHEET LAYOUT AND SHEET INDEX, SURVEY REFERENCES
2. NARRATIVE
3. CONTROL NETWORK AND BASIS OF BEARING
- 4-10. SURVEY

SW 1/4 SEC 34 T26S R6W WM
 NW 1/4 SEC 34 T26S R6W WM
 NE 1/4 SEC 33 T26S R6W WM
 SE 1/4 SEC 28 T26S R6W WM

FILED
 Date: 5-12-2008 By: JC
 This survey consists of:
 Map: Co. Rd. 6 & 31A
 Narrative:
 Corner Rep: 10 pages
 DOUGLAS COUNTY
 SURVEYOR



SHEET LAYOUT DIAGRAM
 NOT TO SCALE

SURVEY REFERENCES

CS RMI-76, M31-35, M38-54, M51-15, M51-313-1, M107-6, M137-3, PARTITION PLAT P1992-0086, PARTITION PLAT P1993-0004, PLAT C OF N CURRY ESTATE, DEL VIEW SUBDIVISION, RIVER CLUB ESTATES, MEADOWS AT GARDEN VALLEY, MATHIS SUBDIVISION, FAIRWAY VILLAGE AND MEADOWS AT GARDEN VALLEY PHASE 5, DOUGLAS COUNTY SURVEYOR CORNER REESTABLISHMENT NOTES (POINT IDENTIFIER 400200), BEING THE SECTION CORNER COMMON TO SECTIONS 27, 28, 33 AND 34 IN TOWNSHIP 26 SOUTH, RANGE 6 WEST OF THE WILLAMETTE MERIDIAN, DOUGLAS COUNTY, OREGON.

DEEDS USED

R/W- BK 7 PG 366, BK 351 PG 409, BK 351 PG 407, BK 348 PG 30, BK 349 PG 262, BK 349 PG 460, BK 982 PG 547, BK 1017 PG 73, BK 1186 PG 435, BK 1186 PG 438, BK 346 PG 879, BK 346 PG 894, BK 984 PG 877, BK 987 PG 307, BK 1710 PG 308, BK 1710 PG 304, BK 1721 PG 360, BK 1710 PG 312, BK 1022 PG 57, BK 283 PG 308 DEED NO. 1997-05128, DEED NO. 1997-05129 & DEED NO. 1997-04173 OF THE RECORDS OF DOUGLAS COUNTY OREGON.

OWNERSHIP- DEED NO'S 1992-12227, 1974-12803, 1971-07006, 2003-29085, 2004-20046, 2007-14730, 2004-12524, 1996-05790, 2001-22437, 2003-31973, 2003-32157, 2004-21243, 2005-19292, 1995-08192, 2005-32401, 2006-28568, 2004-26385, 2004-30292, 1966-06008, 2001-04946, 2004-01181, 2003-08517 AND 2001-27411, AND VOLUME 98 PAGE 317 AND VOLUME 120 PAGE 99 OF THE RECORDS OF DOUGLAS COUNTY OREGON.

DOUGLAS COUNTY ROAD MAPS

GARDEN VALLEY ROAD NUMBER 6, 1965 DOUGLAS COUNTY ROAD MAP "GV"
 OLD GARDEN VALLEY ROAD NUMBER 6 AND 31A, 1987 DOUGLAS COUNTY ROAD MAP "GV"
 OLD GARDEN VALLEY ROAD NUMBER 6, 1996 DOUGLAS COUNTY ROAD MAP "OGV"
 METRIC ALIGNMENT FOR GARDEN VALLEY ROAD NUMBER 31A (UNMAPED) CENTERLINE
 PER BK 1710 PG 308 AND PAROL EVIDENCE OF THE DOUGLAS COUNTY ENGINEERING DEPARTMENT "GV"

DATA SHEETS USED

NGS- CABL, CORV, DDSN, MDMT, P367, PTSG, REDM & YBHB
 DOUGLAS COUNTY- BENCH MARK "BRUCE", STATION "CURRY" STATION "NU3" & STATION "NU4"

SEE SHEET 2 FOR SURVEY NARRATIVE

LEGEND	
☆	FOUND GPS STATION USED FOR NETWORK CONTROL

FILE NAME: 15467RET.dgn

OSEC CONSULTING ENGINEERS
 Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090
 2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1295, 503-589-4100
 1335 POPLAR DRIVE MEDFORD, OREGON 97504-5207, 541-774-5590
 5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035, 503-620-6103

OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
 NORTH UMPQUA RIVER BROWNS BRIDGE
 GARDEN VALLEY RD.
 DOUGLAS COUNTY

ODOT REGION 3
 3500 NW STEWART PARKWAY
 ROSEBURG, OR. 97470
 KEY # 15467
 JANUARY, 2008
 NO SCALE
 SHEET 1 OF 10

ENGLISH
 REGISTERED PROFESSIONAL LAND SURVEYOR
Log Miles
 OREGON
 JULY 12, 2005
 LOGAN MILES
 65462
 RENEWAL DATE: DEC. 31, 2008

JIM COLTON	OBC	DESIGNED: LOGAN MILES	PROJ. NO. 0019-0084.18
APPROVED BY: PRINCIPAL SURVEYOR		DRAWN: DAVID JOHN	CHK'D: ANDY AUSLAND

Co. Rd. #6 & 31A MP 4.35-5.41 & 0.65-0.50

CO RD 6 & 31A

06RDCV1

NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO RESOLVE THE FIELD LOCATION OF THE EXISTING RIGHTS-OF-WAY FOR "GV" GARDEN VALLEY ROAD NUMBER 6 AND 31A BETWEEN A POINT 600 FT. SOUTH OF QUAIL LANE TO THE INTERSECTION OF CHEROKEE ROAD AND A PORTION OF OLD GARDEN VALLEY ROAD NUMBER 6 AS SHOWN HEREON BEING LOCATED IN DOUGLAS COUNTY, OREGON. THIS SURVEY WAS ALSO PERFORMED TO PERPETUATE THE POSITIONS OF ANY EXISTING SURVEY MONUMENTS THAT LIE NEAR THE PROJECT AREA BY TYING THE MONUMENTS TO THE PROJECT CONTROL NETWORK. THIS SURVEY WAS MADE AT THE REQUEST OF THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT) AND DOUGLAS COUNTY FOR AN UPCOMING PROJECT IN THE PREVIOUSLY DESCRIBED VICINITY. THIS SURVEY MEETS THE REQUIREMENTS FOR A RECOVERY SURVEY AS OUTLINED IN THE OREGON REVISED STATUTES, CHAPTER 209.155.

THIS SURVEY WAS PERFORMED IN INTERNATIONAL FEET UNITS (HORIZONTALLY) AND US SURVEY FEET (VERTICALLY).

CONTROL POINTS FOR THIS SURVEY WERE NOT SET ON AND DO NOT REPRESENT PROPERTY LINES OR RIGHT-OF-WAY LINES AND ARE INTENDED FOR USE SOLELY BY ODOT, DOUGLAS COUNTY, AND OBEC CONSULTING ENGINEERS IN SUPPORT OF FUTURE PROJECTS. IT IS NOT THE INTENT OF ODOT, DOUGLAS COUNTY, OR OBEC CONSULTING ENGINEERS TO PERPETUATE THESE CONTROL POINTS AS MONUMENTS.

THIS SURVEY WAS PERFORMED IN JANUARY OF 2008. THE SURVEY EQUIPMENT USED FOR THIS PROJECT CONSISTED OF FOUR TRIMBLE R8 GPS RECEIVERS, ONE TRIMBLE 5700 GPS RECEIVER, ONE TRIMBLE S6 ROBOTIC TOTAL STATION, FOUR TRIMBLE TSC2 DATA COLLECTORS, AND TWO SOKKIA SDL30 DIGITAL LEVELS.

GARDEN VALLEY ROAD ("GV" & "M99" LINES)

THE RESOLUTION OF THE RIGHT-OF-WAY OF GARDEN VALLEY ROAD NUMBER 6 AND 31A WAS COMPUTED BY UTILIZING FOUND MONUMENTS, RECORD DEEDS, AND THE CORRESPONDING 1965 AND 1987 DOUGLAS COUNTY ROAD MAPS.

THE TANGENT GOING NORTH FROM PT STATION "GV" 260+78.99 BK = 261+51.55 AH WAS COMPUTED BY HOLDING THE RECORD OFFSET OF 50.00 FEET LEFT FROM POINT NUMBER 1026, WHICH WAS ALSO HELD FOR RECORD STATION "GV" 274+00.00, AND POINT NUMBER 1037, THEN PROJECTING THIS BEARING SOUTHERLY AT THE RECORD DISTANCE BETWEEN STATIONS "GV" 274+00.00 AND THE PI AT STATION "GV" 256+66.568. WITH THIS TANGENT BEARING NOW ESTABLISHED, THE BEARING FOR THE TANGENT HEADING SOUTH FROM PC STATION "GV" 235+24.78 WAS ESTABLISHED BY HOLDING THE ANGULAR DIFFERENCE BETWEEN THESE TWO TANGENTS PER THE 1965 DOUGLAS COUNTY ROAD MAP, AND PLACING THE COMPUTED TANGENT ALONG A LINE OF BEST FIT BETWEEN FOUND MONUMENT POINT NUMBERS 1010 AND 1012 PER THE 1965 DOUGLAS COUNTY ROAD MAP, WITH 1010 BEING HELD FOR "GV" STATION 235+24.78 PC.

TO COMPUTE THE ALIGNMENT BETWEEN "GV" STATIONS 235+24.78 PC AND 260+78.99 PT BK = 261+51.55 PT AH, THE RECORD PI-TO-PI DISTANCE PER THE 1965 DOUGLAS COUNTY ROAD MAP WAS HELD FROM PI STATION "GV" 256+66.568, AND WAS INTERSECTED WITH THE TANGENT EXTENDED NORTHERLY FROM STATION "GV" 235+24.78 PC TO ESTABLISH PI STATION "GV" 243+30.523. THE CURVES WERE THEN COMPUTED BY HOLDING THE TANGENT LENGTHS AND DELTAS ESTABLISHED BY THIS METHOD. THIS CREATED A SMALL DEFICIENCY BETWEEN THE RECORD CURVE LENGTHS AND THE COMPUTED CURVE LENGTHS. THE STATION DIFFERENCE WAS RECTIFIED BY HOLDING THE RECORD AHEAD STATIONING AT THE STATION EQUATIONS AS SHOWN HEREON IN ORDER TO BEST PRESERVE THE STATIONING OF THE ALIGNMENT, SINCE ALL DEED REFERENCES WERE BASED ON STATION AND OFFSET CALLS TO THE RECORD CENTERLINE.

THE "M99" GARDEN VALLEY ROAD NUMBER 31A ALIGNMENT WAS COMPUTED USING THE RECORD CENTERLINE DESCRIBED IN BK 1710 PG 308 AND WAS CONVERTED FROM METERS TO FEET USING A CONVERSION FACTOR OF 3.28083990. THE ALIGNMENT WAS NEEDED TO ESTABLISH THE CENTERLINE OF GARDEN VALLEY ROAD NUMBER 31A FROM THE END OF THE "GV" ALIGNMENT TO THE END OF PROJECT AT STATION "M99" 14+90.94 BEING THE RECORD PC STATION IN THE "M99" ALIGNMENT OF [10+454.437 M] CONVERTED TO FEET. PAROL EVIDENCE FROM COMMON CORNER TIES WITH THE DOUGLAS COUNTY ENGINEERING DEPARTMENT WAS USED TO DETERMINE THAT THE "M99" AND THE "GV" ALIGNMENTS WERE ON A COINCIDENT TANGENT. THE DOUGLAS COUNTY ENGINEERING DEPARTMENT IS CURRENTLY IN THE PROCESS OF CREATING A ROAD MAP FOR THIS ALIGNMENT AND THEY WERE ABLE TO PROVIDE STATION AND OFFSETS TO COMMONLY TIED MONUMENTS AIDING IN THE PLACEMENT OF THE ALIGNMENT. POINT NUMBERS 1015 AND 1033 SET DURING THE 1965 DOUGLAS COUNTY ROAD PROJECT WERE LOCATED BY THE COUNTY ENGINEERING DEPARTMENT AND HELD THE RECORD (60.00 FEET RIGHT) FOR THE "M99" ALIGNMENT. THIS WOULD INDICATE THAT THE INTENT OF THE "M99" ALIGNMENT WAS TO BE COINCIDENT WITH THE TANGENT OF THE "GV" 1965 ALIGNMENT AND WAS COMPUTED AS SUCH DURING THIS SURVEY. IN ORDER TO OBTAIN THE CORRECT STATIONING THE COUNTY INFORMED THIS OFFICE THAT THE MONUMENT LOCATED AT "GV" STATION 275+00.00 WAS BEING HELD AT "M99" STATION [10+200.620 M] BEING "M99" [16+58.20] CONVERTED TO FEET. THIS ALIGNMENT WAS PLACED BASED ON THIS PAROL EVIDENCE AND STATIONS AND OFFSET IN RIGHT OF-WAY DEEDS WERE CONVERTED TO FEET AND HELD PER THE CALCULATED "M99" ALIGNMENT. THE BEGINNING OF "M99" STATION 0+00.00 WAS COMPUTED AND A TIE WAS MADE TO THE SOUTHEAST CORNER OF SECTION 28, TOWNSHIP 26 SOUTH, RANGE 6 WEST OF THE WILLAMETTE MERIDIAN, DOUGLAS COUNTY, OREGON, AS SHOWN HEREON. THIS TIE DOES NOT MATCH THE ORIGINAL DEED TIE IN BK 1710 PG 308. HOWEVER, THE EVIDENCE PROVIDED BY THE DOUGLAS COUNTY ENGINEERING DEPARTMENT AS TO THE LOCATION OF THIS "M99" ALIGNMENT UTILIZING FOUND MONUMENTS WAS STRONGER AND MORE CONSISTENT WITH THE HISTORIC LOCATION FOR THE CENTERLINE OF GARDEN VALLEY ROAD NUMBER 31A.

CHEROKEE AVENUE ("CH" LINE)

THE RESOLUTION OF THE RIGHT-OF-WAY OF CHEROKEE AVENUE WAS COMPUTED UTILIZING MONUMENTS FOUND PER RIVER CLUB ESTATES AND DEL VIEW SUBDIVISION. THE CENTERLINE INTERSECTION OF GARDEN VALLEY ROAD NUMBER 31A AND CHEROKEE AVENUE WAS LOCATED BY HOLDING FOUND MONUMENTS FROM RIVER CLUB ESTATES AND THE RECORD GEOMETRY OF THE PLAT, THEN HOLDING THE RECORD OFFSET DISTANCE OF 30.00' TO CALCULATE THE CENTERLINE. THIS CENTERLINE WAS THEN EXTENDED TO INTERSECTION THE "M99" ALIGNMENT OF GARDEN VALLEY ROAD NUMBER 31A AS COMPUTED FROM PAROL EVIDENCE OF DOUGLAS COUNTY AND DEED REFERENCE BK 1710 PG 308. THE RECORD 60.00 FOOT RIGHT-OF-WAY WIDTH WAS HELD FOR THE RIGHT-OF-WAY LOCATION.

SW 1/4 SEC 34 T26S R6W WM
NW 1/4 SEC 34 T26S R6W WM
NE 1/4 SEC 33 T26S R6W WM
SE 1/4 SEC 28 T26S R6W WM

FILED
Date: 3-12-2008 By: JC
This survey consists of:
Map: Co. Rd 6 & 31A
Narrative:
Corner Rpt: 10 Pgs
DOUGLAS COUNTY
SURVEYOR

OLD GARDEN VALLEY ROAD ("OGV" LINE)

THE RESOLUTION OF THE RIGHT-OF-WAY OF OLD GARDEN VALLEY ROAD NUMBER 6 "OGV" WAS COMPUTED UTILIZING RECORD INFORMATION PER THE GARDEN VALLEY ROAD NUMBER 6 & 31A 1987 DOUGLAS COUNTY ROAD MAP, THE OLD GARDEN VALLEY ROAD NUMBER 6 1996 DOUGLAS COUNTY ROAD MAP AND THE GARDEN VALLEY ROAD NUMBER 6 1965 DOUGLAS COUNTY ROAD MAP AND FOUND MONUMENTS PER THESE MAPS BEING POINT NUMBERS 1026 (1965) AND 1023 ((1996)). POINT NUMBER 1023 WAS HELD FOR STATION AND OFFSET AT "OGV" 16+50.00 AND 35.00 FEET LEFT. AT THE INTERSECTION OF GARDEN VALLEY ROAD "GV" AND OLD GARDEN VALLEY ROAD THERE WAS SOME DIFFERENCES STATIONING BETWEEN THE CALCULATED AND RECORD CENTERLINES OF "OGV". IN ORDER TO DETERMINE THE INTERSECTION A LINE WAS CALCULATED FROM SAID POINT NUMBER 1023 AND THE RECORD "GV" STATION 274+80.00 AT 120.00 FEET LEFT PER THE 1987 ROAD MAP HOLDING POINT NUMBER 1026 FOR THE RECORD "GV" STATION 274+00.00 AT 50.00 FEET LEFT. THIS LINE WAS THEN OFFSET THE RECORD 35.00 FEET PER THE "OGV" 1996 ROAD MAP AND EXTENDED TO INTERSECT THE COMPUTED "GV" AND "M99" ALIGNMENTS SHOWN HEREON. STATIONING WAS HELD AT POINT NUMBER 1023 FOR THE "OGV" ALIGNMENT AND BACKED INTO THE INTERSECTION STATION SHOWN HEREON AS "OGV" 9+83.69 WITH THE RECORD STATIONING BEING 9+83.98.

RIGHT-OF-WAY ENCROACHMENTS

THE PLATS OF RIVER CLUB ESTATES, THE MEADOWS AT GARDEN VALLEY AND THE MEADOWS AT GARDEN VALLEY PHASE 5 HAVE AREAS OF ENCROACHMENT INTO THE DEEDED RIGHT-OF-WAY. IN THESE CASES THE DEEDED RIGHT-OF-WAY LINES BY STATION AND OFFSET WERE HELD BASED ON THE RETRACED ALIGNMENTS AS SHOWN HEREON AND THE ABUTTING LOT LINES WERE TRIMMED BACK TO THE RESOLVED DEEDED RIGHT-OF-WAY LINES.

WATER BOUNDARIES

DURING THE COURSE OF THIS SURVEY, INCONSISTENCIES RELATING TO THE OWNERSHIP OF THE RIVER BED WERE DISCOVERED IN THE EXISTING RECORDS OF THE PROPERTIES ADJACENT TO THE RIVER. AN EXTENSIVE AMOUNT OF RESEARCH REGARDING WATER BOUNDARIES WAS DONE TO DETERMINE THAT THE RIVER HAS BEEN DEEMED NON-NAVIGABLE BY THE DIVISION OF STATE LANDS (DSL).

THE 1973 BUREAU OF LAND MANAGEMENT (BLM) MANUAL ADDRESSES THE ISSUE OF OWNERSHIP OF A NON-NAVIGABLE STREAM BED IN CHAPTER 7-51, ENTITLED "NON-NAVIGABLE STREAMS AND LAKES". THE MANUAL STATES "NON-NAVIGABLE STREAMS AND LAKES ARE MEANDERED UNDER CERTAIN CONDITIONS WHICH WERE DESCRIBED IN CHAPTER III. TITLE TO THE BEDS REMAINS IN THE UNITED STATES UNTIL THE SHORE LANDS HAVE PASSED INTO PRIVATE OWNERSHIP." THE MANUAL ALSO CITES COURT CASE "UNITED STATES V. OREGON, 295 U.S. 1 (1935)", STATING "THE GOVERNMENT'S CONVEYANCE OF TITLE TO A FRACTIONAL SUBDIVISION FRONTING UPON A NON-NAVIGABLE BODY OF WATER, UNLESS SPECIFIC RESERVATIONS ARE INDICATED IN THE PATENT, CARRIES OWNERSHIP TO THE MIDDLE OF THE BED IN FRONT OF THE BASIC HOLDING."

ALL OF THE ABUTTING PROPERTIES IN THIS SECTION OF THE RIVER ARE CURRENTLY UNDER PRIVATE OWNERSHIP AT THIS TIME. THIS WOULD SUGGEST THAT THE BASIC HOLDING ALONG THE FRONTAGE OF THE RIVER, WHERE THE BANK WAS CALLED IN THE DEED, ASSUMES OWNERSHIP TO THE MIDDLE OF THE BED, WHICH IS CONSISTENT WITH THE STATED POSITIONS OF THE DSL AND THE BLM.

COMMON PRACTICES IN THE STATE OF OREGON DEFINE THE MIDDLE OF THE BED AS THE CENTER OF THE CHANNEL BETWEEN THE ORDINARY HIGH WATER LINES. THIS LINE WAS COMPUTED USING THE METHOD OF PLACING LINES PERPENDICULAR TO THE CALCULATED CENTER OF THE CHANNEL AS SHOWN HEREON, AND THE FRONTING PROPERTIES WERE EXTENDED TO THE COMPUTED CENTER OF THE RIVER BED.

FILE NAME: 15467RET.dgn

OBEC CONSULTING ENGINEERS
Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090
2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1295, 503-589-4100
1335 POPLAR DRIVE MEDFORD, OREGON 97504-5207, 541-774-5590
5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035, 503-620-6103
www.obec.com



REGISTERED PROFESSIONAL LAND SURVEYOR

LOGAN MILES
65452

RENEWAL DATE: DEC. 31, 2008

OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
NORTH UMPQUA RIVER BROWNS BRIDGE
GARDEN VALLEY RD.
DOUGLAS COUNTY

ODOT REGION 3 JANUARY, 2008
3500 NW STEWART PARKWAY NO SCALE
ROSEBURG, OR. 97470 KEY # 15467 SHEET 2 OF 10

DESIGNED: LOGAN MILES PROJ. NO. 0019-0084.18

DRAWN: DAVID JOHN CHK'D: ANDY AUSLAND

Co. Rd. #6 & #31A MP 4.35 - 5.41 & 0.65 - 0.50

CO RD 6 & 31A

06RDCV2

CONTROL NARRATIVE

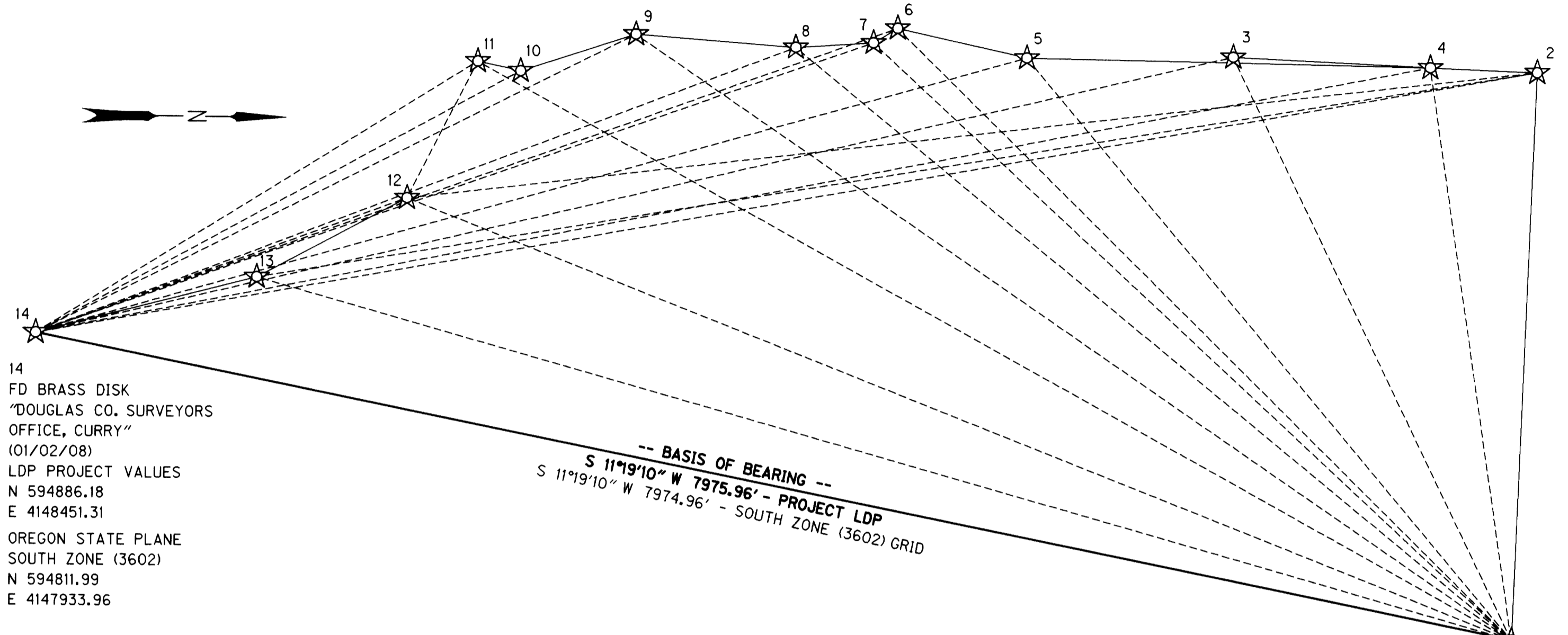
PROJECT: NORTH UMPQUA RIVER BROWN'S BRIDGE
 LOCATION: DOUGLAS COUNTY
 ODOT KEY NUMBER: 15467
 P.A. NUMBER: 25313
 OBEC PROJECT: 0019-0084.18
 SURVEY DATUM:
 HORIZONTAL - NAD83(CORS 93) EPOCH 2002 (INTERNATIONAL FEET)
 VERTICAL - NGVD 29 (US SURVEY FEET)

SW 1/4 SEC 34 T26S R6W WM
 NW 1/4 SEC 34 T26S R6W WM
 E 1/4 SEC 33 T26S R6W WM
 SE 1/4 SEC 28 T26S R6W WM
 NW 1/4 SEC 27 T26S R6W WM
 NE 1/4 SEC 28 T26S R6W WM

FILED
 Date: 3-12-2008 By: JC
 This survey consists of:
 Map: CO-206 & 31A
 Narrative:
 Corner Rpt: 10 Pgs
 DOUGLAS COUNTY
 SURVEYOR

GPS HORIZONTAL CONTROL SURVEY

THE PRIMARY HORIZONTAL CONTROL WAS BROUGHT INTO THE PROJECT BY USING AN OPUS-RS SOLUTION FOR CORS STATIONS "DDSN, CABL, CORV, PTSG, YBHB, P376, MDMT & REDM", THEREBY ESTABLISHING POSITIONS ON POINTS 1 AND 14. A SUBSEQUENT STATIC GPS SURVEY WAS PERFORMED TO ESTABLISH POSITIONS FOR POINTS 2 THROUGH 13. THE COORDINATE SYSTEM WAS HELD AT OREGON STATE PLANE - SOUTH ZONE (3602), UNTIL ALL GPS CONTROL SURVEYING AND ADJUSTMENTS WERE COMPLETE. THEN ALL POINTS WERE MOVED TO GROUND (LOCAL DATUM PLANE COORDINATE SYSTEM). TO CONVERT THE PROJECT LDP COORDINATES TO THE OREGON STATE PLANE COORDINATE SYSTEM - SOUTH ZONE NAD 83(CORS96) EPOCH 2002, MULTIPLY THE COORDINATE VALUES BY A COMBINED FACTOR OF 0.99987529.



14
 FD BRASS DISK
 "DOUGLAS CO. SURVEYORS
 OFFICE, CURRY"
 (01/02/08)
 LDP PROJECT VALUES
 N 594886.18
 E 4148451.31
 OREGON STATE PLANE
 SOUTH ZONE (3602)
 N 594811.99
 E 4147933.96

1.96 SIGMA (95%) CONFIDENCE LEVEL LIMITS

POINT NO	SEMI MAJOR	SEMI MINOR	ORIENTATION*
1	0.00 INT FT	0.00 INT FT	00°00'00.0"
2	0.01 INT FT	0.01 INT FT	78°39'15.5"
3	0.01 INT FT	0.01 INT FT	83°06'23.5"
4	0.01 INT FT	0.01 INT FT	81°00'50.4"
5	0.01 INT FT	0.01 INT FT	79°01'43.9"
6	0.01 INT FT	0.01 INT FT	78°34'28.3"
7	0.01 INT FT	0.01 INT FT	87°07'22.1"
8	0.01 INT FT	0.01 INT FT	73°21'45.5"
9	0.01 INT FT	0.01 INT FT	89°40'19.2"
10	0.01 INT FT	0.01 INT FT	87°51'54.5"
11	0.01 INT FT	0.01 INT FT	72°20'24.7"
12	0.01 INT FT	0.01 INT FT	80°08'04.1"
13	0.01 INT FT	0.01 INT FT	73°30'39.6"
14	0.00 INT FT	0.00 INT FT	00°00'00.0"

OPUS-RS NOTES

OREGON STATE PLANE SOUTH ZONE (3602) COORDINATE VALUES WERE DERIVED ON CONTROL POINT NUMBERS 1 AND 14 USING AN NGS OPUS-RS SOLUTION WITH THE FOLLOWING CORS STATIONS BEING HELD: DDSN, CABL, CORV, PTSG, YBHB, P376, MDMT, & REDM

*** NORTH AZIMUTH**

FIXED POINTS NOT SUBJECT TO LEAST SQUARES ADJUSTMENT OR CONFIDENCE LEVEL ANALYSIS: POINTS 1, 14

CONTROL NETWORK SCHEMATIC & BASIS OF BEARING

NOT TO SCALE

LEGEND

- ☆ FOUND GPS STATION USED FOR NETWORK CONTROL
- ☆-☆ LINES OF OBSERVATION (NOT INTERVISIBLE)
- ☆-☆ LINES OF OBSERVATION (INTERVISIBLE)

FILE NAME: 15467RET.dgn

NETWORK POINT COORDINATE TABLE

PT. ID.	LDP NORTHING	LDP EASTING	DATE	DESCRIPTION
1	602706.99	4150016.84	01-02-08	FD 2-1/2" BRASS CAP IN CONCRETE, UP 0.6', "DOUGLAS CO. SURVEYORS OFFICE, NU 4 1972"
2	602823.34	4147015.06	01-02-08	FD 3-1/2" BRASS CAP IN CONCRETE, FLUSH, "DOUGLAS CO. SURVEYORS OFFICE, NU 3, 1972"
3	601213.34	4146947.73	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
4	602257.89	4146994.48	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
5	600122.14	4146960.42	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
6	599437.82	4146807.93	01-02-08	FD MAGNAIL, FLUSH IN ASPHALT
7	599309.83	4146885.78	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
8	598898.92	4146913.64	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
9	598052.36	4146849.63	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
10	597443.81	4147047.57	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
11	597216.63	4146998.45	01-02-08	FD MAGNAIL, FLUSH IN ASPHALT
12	596846.84	4147724.33	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
13	596053.44	4148148.17	01-02-08	FD SPIKE WITH CENTER PUNCH, FLUSH IN ASPHALT
14	594886.18	4148451.31	01-02-08	FD 2-1/2" BRASS CAP IN CONCRETE, EXP 0.3', "DOUGLAS CO. SURVEYORS OFFICE, CURRY"

FD = FOUND

ENGLISH

REGISTERED PROFESSIONAL LAND SURVEYOR

Logan Miles
 OREGON
 JULY 12, 2005
 LOGAN MILES
 65452
 RENEWAL DATE: DEC. 31, 2008

OBEC CONSULTING ENGINEERS
 Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090
 2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1296, 503-589-4100
 1335 POPLAR DRIVE MEDFORD, OREGON 97504-5207, 541-774-5590
 5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035, 503-620-6103

OREGON DEPARTMENT OF TRANSPORTATION
 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
 NORTH UMPQUA RIVER BROWNS BRIDGE
 GARDEN VALLEY RD.
 DOUGLAS COUNTY

ODOT REGION 3
 3500 NW STEWART PARKWAY
 ROSEBURG, OR. 97470
 JANUARY, 2008
 NO SCALE
 SHEET 3 OF 10

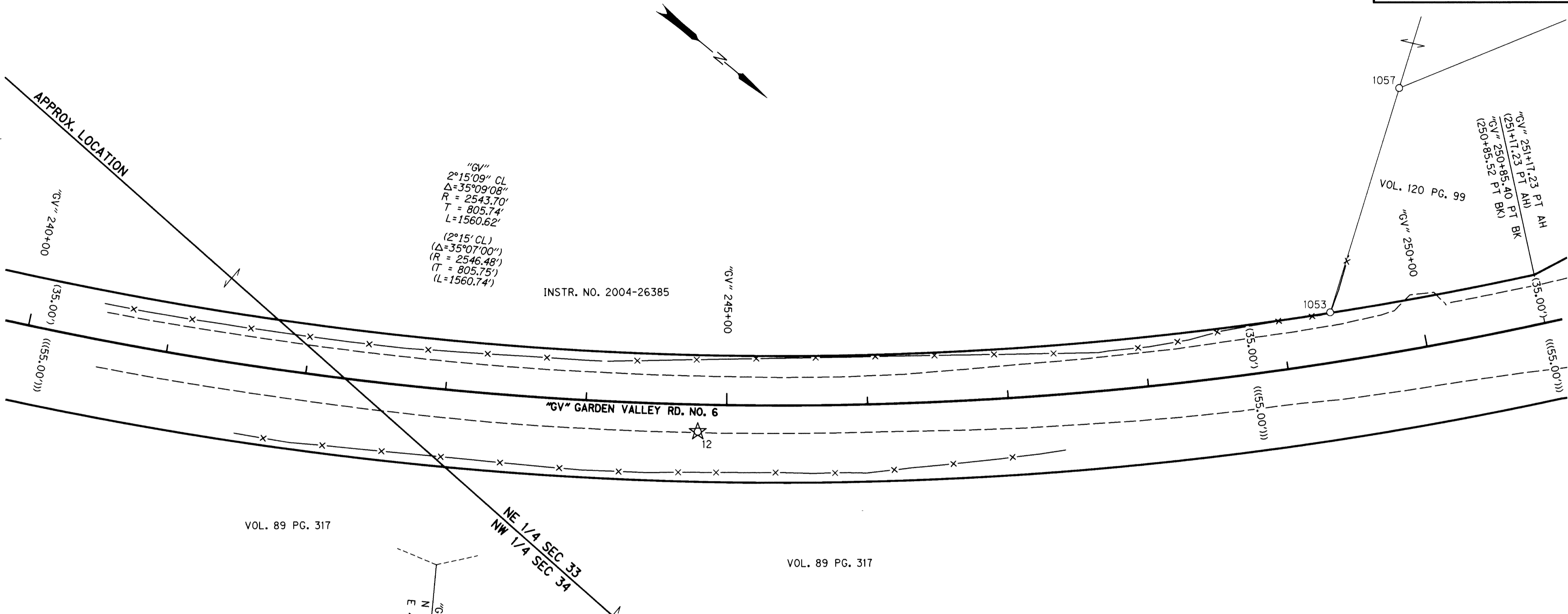
DESIGNED: LOGAN MILES
 DRAWN: DAVID JOHN
 CHK'D: ANDY AUSLAND
 PROJ. NO. 0019-0084.18

Co. Rd. # 6 & 31A

CO RD 6 & 31A

NE 1/4 SEC 33 T26S R6W WM
NW 1/4 SEC 34 T26S R6W WM

FILED
Date: 3-12-2008 By: JC
This survey consists of:
Map: CO. RD. 6 & 31A
Narrative:
Corner Rpt: 10 PGS
DOUGLAS COUNTY
SURVEYOR

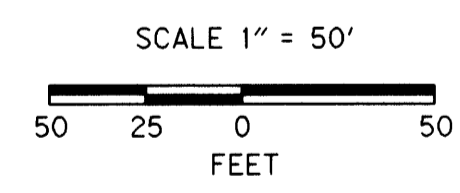


LEGEND	
(XXX)	RECORD DATA PER 1965 DOUGLAS COUNTY ROAD MAP, ROAD NO. 6
((XXX))	RECORD DATA PER INSTR. NO. 1997-0529
○	FOUND MONUMENT NOTED IN TABLE
☆	FOUND GPS STATION USED FOR NETWORK CONTROL
—	RIGHT-OF-WAY
- - -	PROPERTY LINE
- - -	EDGE OF PAVEMENT
-X-	EXISTING FENCE

RECOVERED MONUMENT LIST

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1053	597139.35	4147372.93	"GV" 249+35.91	35.50' LT	01/16/08	FD 3/4" IRON ROD, DOWN 0.7', GOOD CONDITION, CS RMI-76
1057	597075.64	4147218.69	N/A	N/A	01/16/08	FD 3/4" IRON ROD, UP 1.4', BENT, CS RMI-76

FD = FOUND
CS = COUNTY SURVEY



ENGLISH
REGISTERED PROFESSIONAL LAND SURVEYOR
LOGAN MILES
JULY 12, 2005
65452
RENEWAL DATE: DEC. 31, 2008

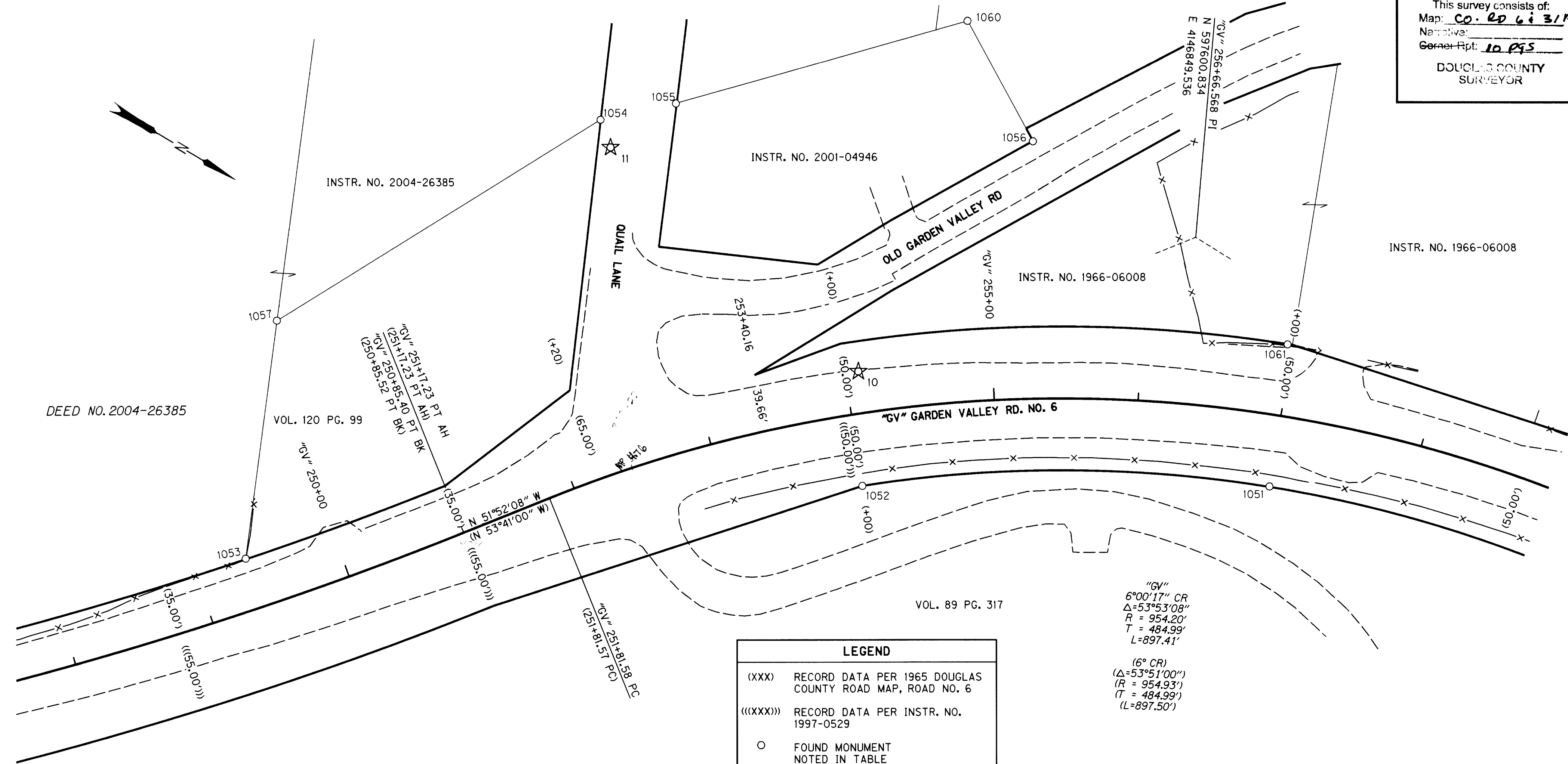
OBEC CONSULTING ENGINEERS
Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090
2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1295, 503-589-4100
1335 POPLAR DRIVE MEDFORD, OREGON 97504-5207, 541-774-5590
5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035, 503-620-6103
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OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
NORTH UMPQUA RIVER BROWNS BRIDGE
GARDEN VALLEY RD.
DOUGLAS COUNTY
ODOT REGION 3
3500 NW STEWART PARKWAY
ROSEBURG, OR. 97470
KEY # 15467
JANUARY, 2008
SCALE 1" = 50'
SHEET 5 OF 10
DESIGNED: LOGAN MILES
DRAWN: DAVID JOHN
CHK'D: ANDY AUSLAND
PROJ. NO. 0019-0084.18

06RD0453

NE 1/4 SEC 33 T26S R6W WM

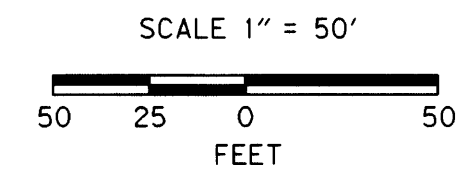
FILED
 Date: 3-12-2008 By: X
 This survey consists of:
 Map: CO. RD 6 & 3/A
 Narrative:
 General Ppt: 10 PGS
 DOUGLAS COUNTY
 SURVEYOR



LEGEND

- (XXX) RECORD DATA PER 1965 DOUGLAS COUNTY ROAD MAP, ROAD NO. 6
- ((XXX)) RECORD DATA PER INSTR. NO. 1997-0529
- FOUND MONUMENT NOTED IN TABLE
- ☆ FOUND GPS STATION USED FOR NETWORK CONTROL
- RIGHT-OF-WAY
- PROPERTY LINE
- - - EDGE OF PAVEMENT
- X- EXISTING FENCE

"GV"
 6°00'17" CR
 Δ=53°53'08"
 R = 954.20'
 T = 484.99'
 L=897.41'
 (6° CR)
 (Δ=53°51'00")
 (R = 954.93')
 (T = 484.99')
 (L=897.50')



RECOVERED MONUMENT LIST

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1051	597731.60	4146974.18	"GV" 257+00.01	49.55' RT	01/16/08	FD 5/8" IRON ROD, DOWN 0.5', BENT, 1965 DOUGLAS COUNTY ROAD MAP, ROAD NO. 6
1052	597485.92	4147115.00	"GV" 254+00.03	49.93' RT	01/16/08	FD 5/8" IRON ROD, DOWN 0.2', GOOD CONDITION, 1965 DOUGLAS COUNTY ROAD MAP ROAD NO. 6
1053	597139.35	4147372.93	"GV" 249+35.91	35.50' LT	01/16/08	FD 3/4" IRON ROD, DOWN 0.7', GOOD CONDITION, CS RMI-76
1054	597201.05	4146985.11	N/A	N/A	01/16/08	FD 3/4" IRON ROD, UP 0.6', GOOD CONDITION, CS RMI-76
1055	597240.91	4146949.13	N/A	N/A	01/16/08	FD 5/8" IRON ROD, UP 1.5', BENT, CS M51-313-1
1056	597469.35	4146848.09	N/A	N/A	01/16/08	FD 1/2" IRON ROD, DOWN 0.2', BENT, CS M51-313-1
1057	597075.64	4147218.69	N/A	N/A	01/16/08	FD 3/4" IRON ROD, UP 1.4', BENT, CS RMI-76
1060	597388.22	4146798.19	N/A	N/A	01/16/08	FD 5/8" IRON ROD, DOWN 0.2', GOOD CONDITION, CS M51-313-1
1061	597693.26	4146882.29	"GV" 256+96.86	49.97' LT	01/16/08	FD 5/8" IRON ROD, DOWN 0.1', BENT, 1965 DOUGLAS COUNTY ROAD MAP, ROD NO. 6

FD = FOUND
 CS = COUNTY SURVEY

ENGLISH

 REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

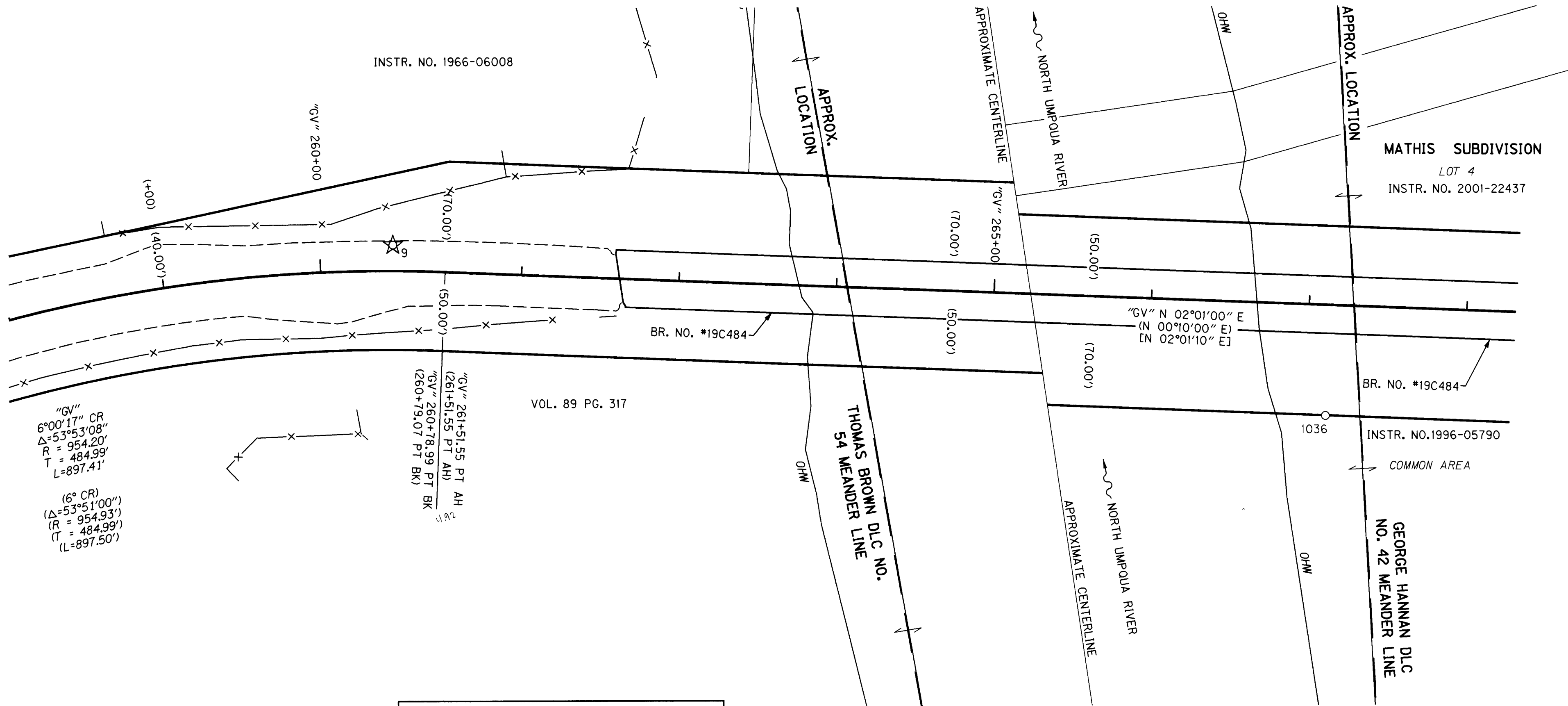
 OREGON
 JULY 12, 2005
 LOGAN MILES
 65452
 RENEWAL DATE: DEC. 31, 2008

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 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
 NORTH UMPQUA RIVER BROWNS BRIDGE
 GARDEN VALLEY RD.
 DOUGLAS COUNTY
 ODOT REGION 3
 3500 NW STEWART PARKWAY
 ROSEBURG, OR. 97470
 JANUARY, 2008
 SCALE 1" = 50'
 SHEET 6 OF 10
 DESIGNED: LOGAN MILES
 DRAWN: DAVID JOHN
 PROJ. NO. 0019-0084.18
 CHK'D: ANDY AUSLAND
 Co. Rd. # 6 & 3/A
 MP 4.69 - 4.87

NE 1/4 SEC 33 T26S R6W WM

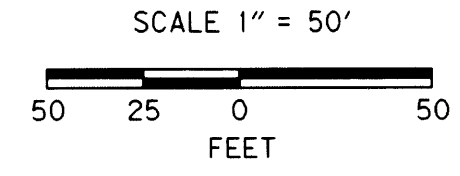
FILED
 Date: 3-12-2008 By: JC
 This survey consists of:
 Map: CO. RD 6: 31A
 Narrative:
 Corner Rpt: 10 PGS
 DOUGLAS COUNTY
 SURVEYOR



"GV"
 6°00'17" CR
 Δ=53°53'08"
 R = 954.20'
 T = 484.99'
 L=897.41'

(6° CR)
 (Δ=53°51'00")
 (R = 954.93')
 (T = 484.99')
 (L=897.50')

LEGEND	
(XXX)	RECORD DATA PER 1965 DOUGLAS COUNTY ROAD MAP, ROAD NO. 6
[XXX]	RECORD DATA PER 1987 DOUGLAS COUNTY ROAD MAP, ROAD NO. 6 AND 31A
○	FOUND MONUMENT NOTED IN TABLE
☆	FOUND GPS STATION USED FOR NETWORK CONTROL
—	RIGHT-OF-WAY
—	PROPERTY LINE
---	EDGE OF PAVEMENT
-X-	EXISTING FENCE



FILE NAME: 15467RET.dgn

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OREGON DEPARTMENT OF TRANSPORTATION
 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
 NORTH UMPQUA RIVER BROWNS BRIDGE
 GARDEN VALLEY RD.
 DOUGLAS COUNTY

ODOT REGION 3
 3500 NW STEWART PARKWAY
 ROSEBURG, OR. 97470 KEY # 15467

JANUARY, 2008
 SCALE 1" = 50'
 SHEET 7 OF 10

DESIGNED: LOGAN MILES PROJ. NO. 0019-0084.18
 DRAWN: DAVID JOHN CHK'D: ANDY AUSLAND
 Co. Rd. # 6 MP 4.87 - 5.05

RECOVERED MONUMENT LIST

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1036	598643.95	4146956.43	"GV" 267+12.79	70.11' RT	01/11/08	FD 5/8" IRON ROD W/ YPC STAMPED "I.E. ENGR.", UP 0.2', GOOD CONDITION, PLAT OF RIVER CLUB ESTATES

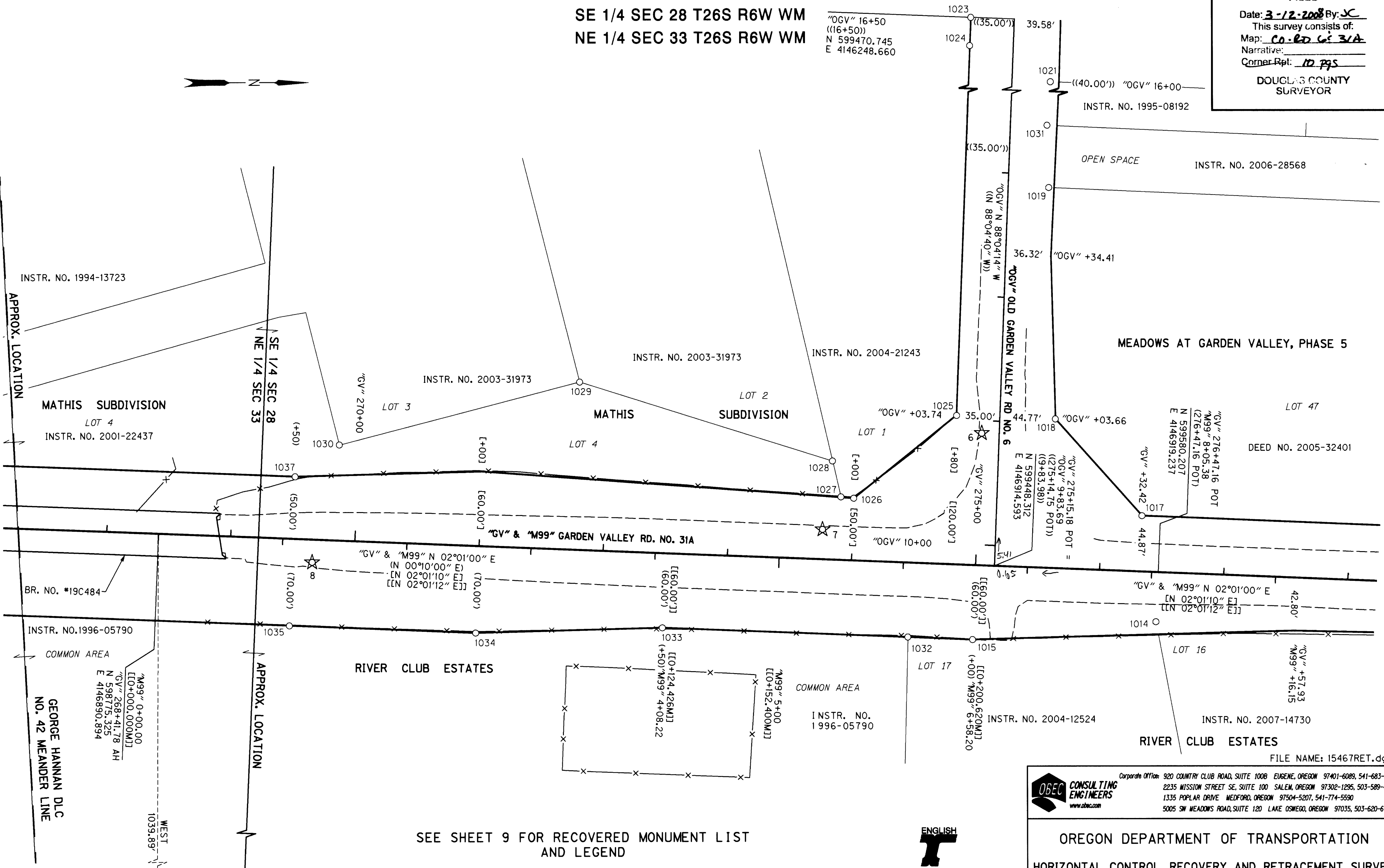
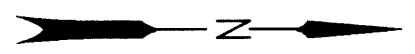
FD = FOUND
 YPC = YELLOW PLASTIC CAP
 OHW = ORDINARY HIGH WATER

ENGLISH
 REGISTERED PROFESSIONAL LAND SURVEYOR
 JULY 12, 2005
 LOGAN MILES
 65452
 RENEWAL DATE: DEC. 31, 2008

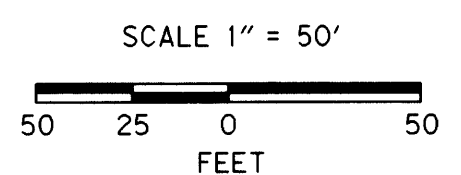
06RD00487

SE 1/4 SEC 28 T26S R6W WM
NE 1/4 SEC 33 T26S R6W WM

FILED
Date: 3-12-2008 By: JC
This survey consists of:
Map: CO RD 6 & 31A
Narrative:
Corner Rpt: 10 PGS
DOUGLAS COUNTY
SURVEYOR



SEE SHEET 9 FOR RECOVERED MONUMENT LIST AND LEGEND



ENGLISH
REGISTERED PROFESSIONAL LAND SURVEYOR
[Signature]
LOGAN MILES
65452
RENEWAL DATE: DEC. 31, 2008

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Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090
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06RD0505