

SURVEY NARRATIVE TO COMPLY WITH O.R.S 209.250

SURVEY FOR AND BY: CITY OF MEDFORD
411 WEST 8TH STREET
MEDFORD, OR 97501

DATE OF SURVEY: FEBRUARY-JUNE, 2009

PURPOSE: 1.) TO PERPETUATE THE LOCATION OF SURVEY MONUMENTS THAT MAY GET DESTROYED DURING A CITY OF MEDFORD STREET IMPROVEMENT PROJECT IN THE SPIRIT OF O.R.S. 209.155. 2.) TO SERVE AS A POST CONSTRUCTION SURVEY REQUIRED IN O.R.S. 209.155(2) (B). 3.) TO SERVE TO PROPAGATE THE CITY SURVEY CONTROL THAT ALSO CONFORMS WITHIN GEOGRAPHIC INFORMATION SYSTEM (G.I.S.) TOLERANCES FOR USE IN THE CITY OF MEDFORD LAND INFORMATION SYSTEM.

PROCEDURE: REALTIME KINEMATICS G.P.S. (TRIMBLE 4800/4700) WAS USED TO MEASURE STATE PLANE COORDINATES ON POINTS #10 & #30 (MULTIPLE MEASUREMENTS WERE OBSERVED). THE GRID BEARING FROM #10 TO #30 WAS USED AS BACKSIGHT. WITH A TRIMBLE S6 TOTAL STATION THE GROUND DISTANCE WAS MEASURED (AND COMPARED TO CALCULATED GROUND DISTANCE). THE GRID COORDINATE OF #30 WAS ADJUSTED TO A LOCAL GROUND COORDINATE. REDUNDANT TIES WERE THEN MADE TO FOUND MONUMENTS AND CONTROL POINTS USING THE S6.

SURVEY DATA:

BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE OREGON STATE PLANE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM (NAD)1983/1991, BASED LOCALLY (WITHIN THE CITY OF MEDFORD (COM)) ON GRID CONTROL STATIONS "#1, NORTHING= 252493.077 EASTING= 4274873.228", "#3, NORTHING= 236943.307 EASTING= 4275688.091" AND "#5, NORTHING= 253978.084 EASTING= 4301764.731" AS SHOWN ON THE SURVEY FILED IN THE JACKSON COUNTY SURVEYOR'S OFFICE AS NUMBER 15965. NOTE: COORDINATES ARE SHOWN ON SURVEY NUMBER 15965 IN METRIC UNITS AND ARE CONVERTED TO INTERNATIONAL FEET AS SHOWN ABOVE, WHERE ONE FOOT EQUALS 0.3048 METERS EXACTLY. IF BEARINGS ARE SHOWN ON THE MAP THEN THEY ARE GRID, EXCEPT BEARINGS AND DISTANCES QUOTED FROM REFERENCE MAPS OR DEEDS WHICH ARE SHOWN PER THAT RECORD REFERENCE.

HORIZONTAL DATUM:
THE HORIZONTAL COORDINATES ARE LOCAL GROUND COORDINATES (LGC) THAT ARE BASED ON THE OREGON STATE PLANE SYSTEM NAD83 (91). THE RELATIONSHIP BETWEEN THE LOCAL GROUND SYSTEM AND THE GRID SYSTEM IS AS FOLLOWS.

1. BOTH SYSTEMS SHARE A COMMON BASE POINT, WHICH HAVE IDENTICAL GROUND AND GRID COORDINATES. FOR THIS PROJECT THE BASE POINT IS #10, NORTHING=252224.003, EASTING=4275941.813 THE COMBINATION SCALE FACTOR FOR THIS PROJECT BEING 0.999935

2. STATE PLANE COORDINATES CAN BE COMPUTED FROM THE LOCAL GROUND COORDINATES BY:

$$NG = NB - [(NB - NL) * CF]$$

$$EG = EB - [(EB - EL) * CF]$$

WHERE: NG, EG = GRID NORTHING, GRID EASTING
NB, EB = BASE POINT NORTHING, BASE POINT EASTING
NL, EL = LOCAL NORTHING, LOCAL EASTING
CF = COMBINATION SCALE FACTOR

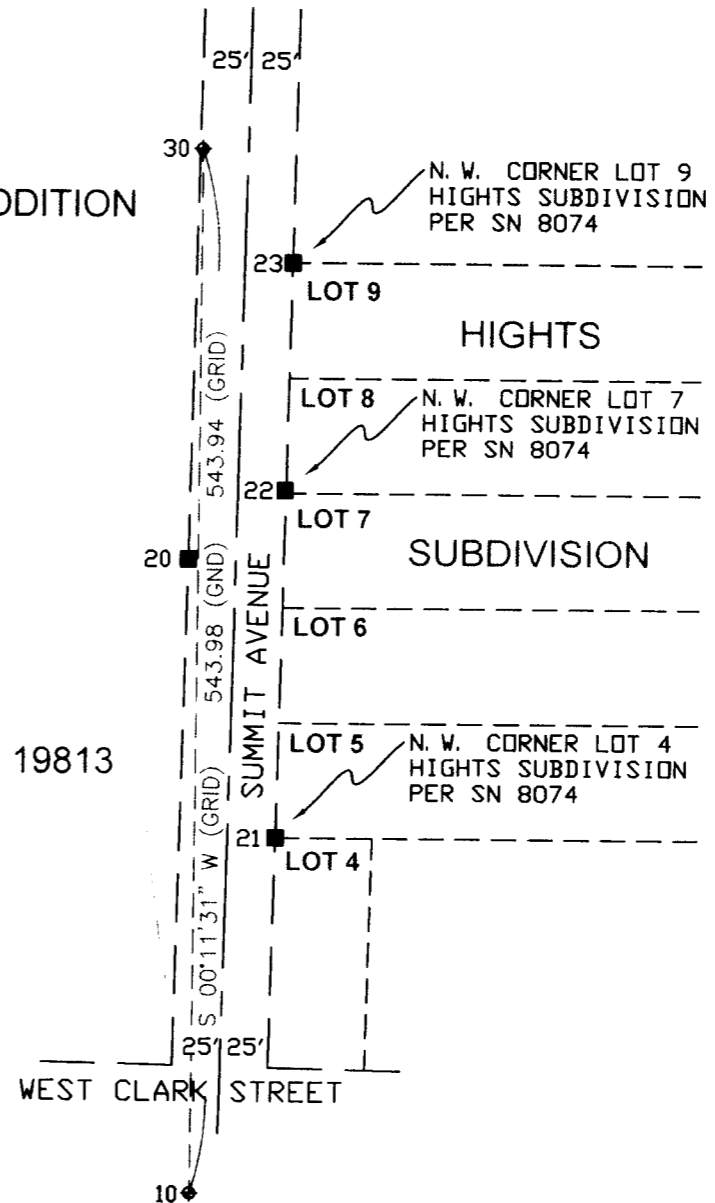
INVERSES COMPUTED FROM LGC WILL PRODUCE GRID BEARINGS AND GROUND DISTANCES. GRID DISTANCES CAN BE OBTAINED BY MULTIPLYING THE GROUND DISTANCE BY THE COMBINATION SCALE FACTOR.

WOODS ADDITION

LEGEND

- ◆ CITY OF MEDFORD CONTROL AS NOTED
- FOUND MONUMENTATION AS NOTED
- SN SURVEY NUMBER
- R/C REBAR AND CAP
- GND GROUND
- BM BENCHMARK

SN 19813



**** RECEIVED ****
DATE 8-3-09 BY BB
This survey consists of:
1 sheet(s) Map
0 page(s) Narrative
JACKSON COUNTY SURVEYOR



LOCAL GROUND COORDINATES (LGC)

POINT	NORTHING	EASTING	DESCRIPTION
10	252224.00	4275941.81	CITY OF MEDFORD BM D-111
20	252555.14	4275937.90	HOFFBUHR R/C PER SN 19813
21	252410.18	4275984.70	5/8" PIN PER SN 8074
22	252590.12	4275988.68	5/8" PIN PER SN 8074
23	252709.90	4275991.24	5/8" PIN PER SN 8074
30	252767.98	4275943.63	SET MAGNAIL W/SHINER

CITY OF MEDFORD - SURVEYING DEPARTMENT

**MONUMENT RECOVERY AND CONTROL SURVEY
SUMMIT AVENUE**

LOCATED IN THE SOUTHWEST 1/4 OF SECTION 24
TOWNSHIP 37 SOUTH, RANGE 2 WEST, WILLAMETTE MERIDIAN
IN THE CITY OF MEDFORD, JACKSON COUNTY, OREGON

REGISTERED PROFESSIONAL LAND SURVEYOR

[Signature] 7/28/09
OREGON
JANUARY 9, 2007
JON M. PROUD
77652

EXPIRES DECEMBER 31, 2010

DRAWN BY: SPM DATE 7/6/09
CHECKED BY: JP DATE 7/6/09
APPROVED: _____ DATE _____
NOTES: _____

PROJECT NO.
M-621

SHEET NO.
1 OF 1

SCALE 1" = 50'

