

# MONUMENT RECOVERY AND CONTROL SURVEY

## WEST SECOND AVENUE

LOCATED IN THE NORTHWEST 1/4 OF SECTION 25

TOWNSHIP 37 SOUTH, RANGE 2 WEST, WILLAMETTE MERIDIAN

IN THE CITY OF MEDFORD, JACKSON COUNTY, OREGON

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

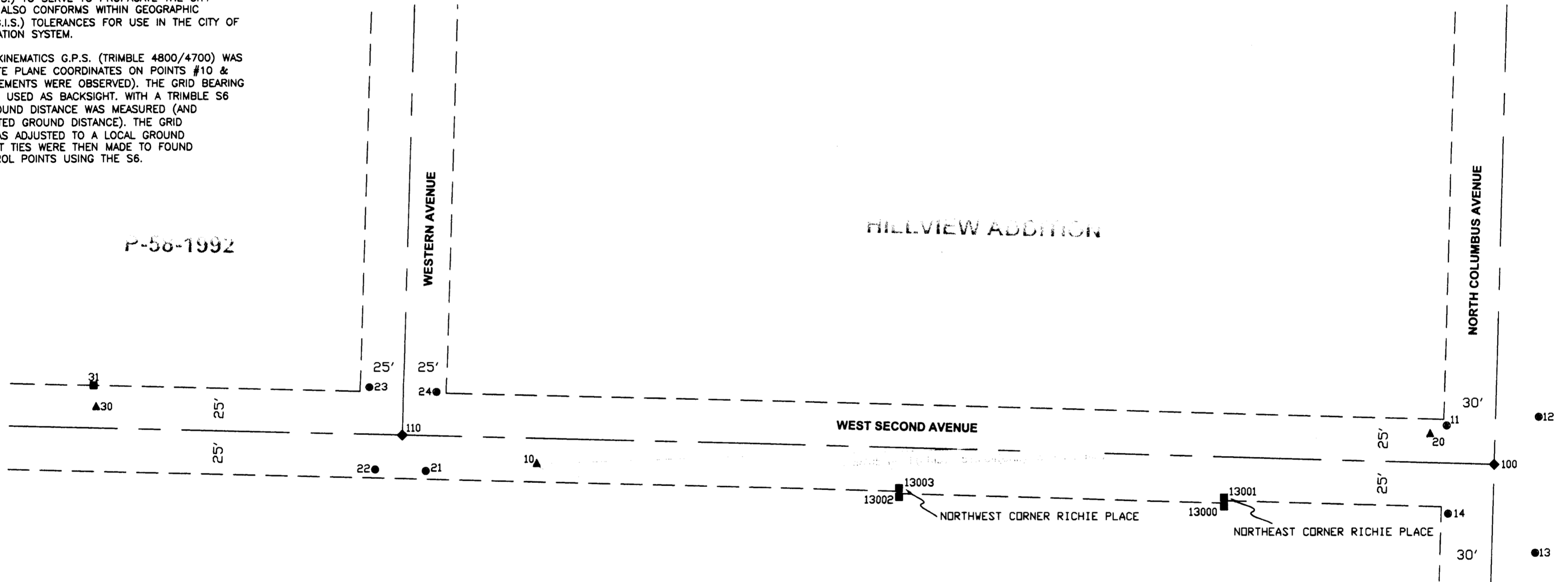
SURVEY NARRATIVE TO COMPLY WITH O.R.S 209.250

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 & #20 (MULTIPLE MEASUREMENTS WERE OBSERVED). THE GRID BEARING FROM #10 TO #20 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 #20 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=250396.638, EASTING=4274440.791 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.

**WEST MEDFORD ADDITION**

**LEGEND**

- ▲ CITY OF MEDFORD CONTROL AS NOTED
- FOUND MONUMENTATION AS NOTED
- FOUND .38 SHELL PER CITY OF MEDFORD FIELD BOOKS 1750/26 AND 1800/29
- ◆ CALCULATED POSITION
- YPC YELLOW PLASTIC CAP
- SN SURVEY NUMBER
- TKNLD TACK AND LEAD
- "LJFA" L.J. FRIAR & ASSOC.
- CALC CALCULATED
- FB COM FIELD BOOK/PAGE
- COM CITY OF MEDFORD
- GND GROUND

SCALE 1" = 50'



LOCAL GROUND COORDINATES (LGC)			
POINT	NORTHING	EASTING	DESCRIPTION
10	250396.64	4274440.79	MAGNAIL/SHINER
11	250418.87	4274969.79	.38 SHELL PER C.O.M FB 1750/27
12	250423.90	4275023.24	.38 SHELL PER C.O.M FB 1750/27
13	250346.09	4275021.15	.38 SHELL PER C.O.M FB 1750/27
14	250368.47	4274970.54	.38 SHELL PER C.O.M FB 1750/27
20	250413.91	4274960.14	MAGNAIL/SHINER
21	250392.78	4274376.31	.38 SHELL PER C.O.M FB 1800/29
22	250393.68	4274346.93	.38 SHELL PER C.O.M FB 1800/29
23	250441.57	4274343.76	.38 SHELL PER C.O.M FB 1800/29
24	250438.62	4274382.72	.38 SHELL PER C.O.M FB 1800/29
30	250430.36	4274184.86	MAGNAIL/SHINER
31	250443.14	4274183.56	5/8" PIN SN 1303
100	250396.60	4274997.29	CALC POSITION PER FB 1750/27
110	250413.37	4274362.57	CALC POSITION PER FB 1800/29
13000	250374.32	4274840.76	5/8" PIN YPC "LJFA" SN 20135
13001	250375.82	4274840.75	TKNLD WASHER "LJFA" SN 20135
13002	250379.40	4274651.74	5/8" PIN YPC "LJFA" SN 20135
13003	250380.84	4274651.78	TKNLD WASHER "LJFA" SN 20135

REGISTERED  
 PROFESSIONAL  
 LAND SURVEYOR  
  
 OREGON  
 JANUARY 9, 2007  
 JON M. PROUD  
 77652  
 EXPIRES DECEMBER 31, 2010

CITY OF MEDFORD - SURVEYING DEPT.

CITY OF MEDFORD  
OREGON

DRAWN BY: SPM	DATE: 7/6/09	PROJECT NO. <b>M-621</b>
CHECKED BY: JP	DATE: 7/6/09	SHEET NO. <b>1 OF 1</b>
NOTES:		