

SECTION 4:
**RECORD OF SURVEY MAP PREPARATION
PROCEDURES**

**Last reviewed/updated
March, 2003**

RECORD OF SURVEY MAP PREPARATION PROCEDURES

Orange County Surveyor's Office is required by law to adhere to the Business and Professions Code for Record of Survey in the unincorporated territory (i.e. 8762-8772 of the Land Surveyors Act). When submitting maps digitally and in hardcopy format, please follow structured format:

Digital submission in 2D (two dimensional) format. The 2D graphic representation should be transmitted as a .DGN file.

- Boundary Data** Boundary Line, Map Name, Bearings/Distances/Curve
Use: (Weight – 4, Line Code – 0) Level (LV) – 1
- Lot / Parcel Data** Lot Lines, Lot Numbers, Lot Distances & Lot Bearings
Use: (Weight – 0, Line Code – 0) Level – 3
- Easement Data** Easement Lines, Bearings/Distances/Curve Data
Use: (Weight – 0, Line Code – 2) Level – 5
- Road Centerline Data** Centerline,
Street Name, Bearings, Distances & Curve Data

Use: (Weight – 2, Line Code – 7) Level – 2
- Right of Way Data** Right of Way Lines, Descriptive Data, Bearings, Distance
Curve Data Use: (Weight – 2, Line Code – 0) Level – 4
- Tie Data** Graphic Representations: Bearings, Distances & Curve
California Coordinate System (ie. NAD 83, NAD 27 U.S.
Survey Feet or Metric) Use:(Weight – 1, Line Code -3) LV– 6
- Monumentation** Graphic Symbols & Descriptive Annotation
Use: (Weight – 1, Line Code -0) Level – 7
- City/County Boundary** Graphic Representations:
Boundary Lines, Original Record








Data & Misc. Use: (Weight – 6, Line Code -5) Level - 8
- Point Symbolology** Use: (Weight – 1, Line Code -0) Font – 0, Level - 9
- Point Number** All Other Data (ie. Point Number, etc.)
Use: (Weight – 1, Line Code -0) Font – 0, Level – 10

For Examples of Line Codes & Weights:

see Exhibit B.

LINES STYLES & MONUMENTATION SYMBOLS

LINEWORK LISTING:

ITEM	LTYPE	WEIGHT	LEVEL	LINE CODE
PROPERTY & BOUNDARY LINES	ACTUAL SIZE 	WT=4	LV=1	LC=0
CITY / COUNTY BOUNDARY		WT=6	LV=7	LC=6
LOT / PARCEL LINES		WT=0	LV=3	LC=0
EASEMENT LINES		WT=0	LV=5	LC=2
ROAD CENTERLINES		WT=2	LV=2	LC=7
RIGHT OF WAY LINES		WT=2	LV=4	LC=0
TIE LINES		WT=1	LV=6	LC=3

RECORD OF SURVEY MONUMENT SYMBOLOGY:

SET MONUMENT -



FOUND MONUMENT -



GPS MONUMENT -



SEED FILES:

All graphic files will be in 2-D (two dimensional) created from graphic Microstation seed files (listed below):

NAD27

Seed File Name = seed27.dgn

Global Origin = 2147483.648, 2147483.648

Master Units = Feet

Sub Units = Tenths

Positional Units =100

NAD83

Seed File Name = seed83.dgn

Global Origin = -4,000,000.000, 0.00

Master Units = Feet

Sub Units = Tenths

Positional Units =100

METRIC

Seed File Name = seedm.dgn

Global Origin = -1742251.635, -337251.635

Master Units = Meters

Sub Units = Millimeters

