### BOARD OF COUNTY COMMISSIONERS - WALLA WALLA COUNTY

In the Matter of	)	
	)	
Walla Walla County	) Ordinance No.	<b>270</b>
Addressing Standards and Guidelines	)	
	)	

Whereas, Walla Walla County adopted Ordinance 236 for County street and road addressing standards and guidelines to enhance the ability of emergency police, fire and medical to protect the health, safety and welfare of the public; and

Whereas, the County has the authority pursuant to RCW 36.01.095 to establish a system of emergency medical services; the authority to maintain and provide for street and road name and traffic control signs for county roads and streets; and the authority to regulate access to county roads and streets; and

Whereas said ordinance requires certain changes, amendments and codification;

Now, therefore, be it hereby ordained, as follows:

Section 1. Ordinance number 236 is hereby repealed in its entirety.

Section 2. Portions of Title 12.06.050 and 12.06.090, which are in conflict with this ordinance are hereby replaced.

Section 3. Chapter 12.10 of the Walla Walla County Code is hereby adopted to read as follows:

## **Chapter 12.10 Addressing Standards and Guidelines**

### Sections

12.10.010 - Purpose

12.10.020 - Applicability

12.10.030 - Definitions

12.10.040 - Roads Requiring Names

12.10.050 - Road Naming Policy

12.10.060 - Road Type Designators

12.10.070 - Road Naming Process

12.10.080 - Maintenance of Master Road Names Directory/GIS Coverage

12.10.090 - Private Road Name Sign Installation

12.10.100 - Road Sign Installation Fees

12.10.110 - Address System

12.10.120 - Rules





- 12.10.130 Road Origin
- 12.10.140 General Numbering Guideline
- 12.10.150 Assignment of Numbers by MSAG Coordinator
- 12.10.160 Posting Address Numbers
- 12.10.170 Address Posts
- 12.10.180 Issuance of Post
- 12.10.190 Address Post Installation Fees
- 12.10.200 Responsibility for Address Signing Maintenance
- 12.10.210 Interpretation
- 12.10.220 Administrative Procedures
- 12.10.230 Administration Interpretation
- 12.10.240 Variances
- 12.10.250 Conflict with other Ordinances
- 12.10.260 Severability
- 12.10.270 Reporting
- 12.10.280 Violations
- 12.10.290 Fines
- 12.10.300 Enforcement

### Part 1 - General Provisions

Section 12.10.010 Purpose - The purpose of these standards is:

- A. To prescribe a system for the naming of roads and the numbering of structures.
- B. To provide a uniform pattern of addresses for emergency, law enforcement, medical and fire responders, utility providers and mail service.
- C. To provide a database and address location maps for County records and Enhanced 9-1-1 service.
- D. To provide clear, distinct and uniform address posting throughout the County.
- E. To provide for a uniform pattern of placement or replacement of address identifiers and private road name signs.

<u>Section 12.10.020 Applicability</u> - This ordinance shall apply to all addressable structures and the associated property as needed, and to all public and private roads with the exception of incorporated jurisdictions that have adopted separate addressing ordinances.

## Section 12.10.030 Definitions

Agent:

MSAG Coordinator

Posting Agent:

Person and/or organization responsible for distribution and/or

installation of address posts.

MSAG:

Master Street Addressing Guide

Designator:

Suffix used to indicate the road type

Primary Access:

The primary means of vehicular access to an addressable structure

Dwellings:

Structures that are, have been, or could be lived in for extended

periods of time.

Roads:

Reference to all vehicle paths of travel.

Walla Walla County Addressing Standards and Guidelines (2002)



2002-04643

Addressable Structures: Any structure that has phone service that could be used to contact the

Emergency Service Providers.

ESN Zones:

The zones in which the county is divided for response agencies.

There are different zones for Fire, Ambulance, and Law.

<u>Section 12.10.040 Roads Requiring Names</u> - Every public road and all private roads serving more than two properties, improved or unimproved, or providing access to three or more dwellings, shall have a name. Some plats of two properties may have a named private road. The MSAG Coordinator shall notify the appropriate agencies and departments, such as the Planning Department, Public Works Department and the U.S. Postal Service, of all approved road names.

Incorporated – For any roads that fall within the Urban Growth Areas, coordination will take place between the respective city's appropriate department and the MSAG Coordinator in the naming of roads.

Unincorporated - All proposed names, public and private, shall be reviewed and approved for use by the MSAG Coordinator. Names for new public roads and the renaming of existing public and private roads will require final approval by the Walla Walla County Board of Commissioners in a resolution. For a change of name to a road that has already been legally recorded as part of land division process, a plat amendment and road name change application will be required in order to change the approved road name.

<u>Section 12.10.050 Road Naming Policy</u> - In selecting road names, consideration shall be given to the following:

- A. There shall be no duplication of existing names within like zip code or within County boundary.
- B. Names of similar pronunciation and/or spelling shall be avoided (example: "Briar Lane", "Brier Lane").
- C. Unusual or popular names with a high probability of being stolen shall not be allowed.
- D. Variations of the same name with a different road designation shall be avoided (example: "Pine Road", "Pine Drive", "Pine Lane")
- E. A road name shall not include numbers, dashes, apostrophes or other non-alphabetical characters.
- F. Articles (the, a, an) shall not be used to begin road names.
- G. Road names are limited to three (3) words, not including the road type designator.
- H. Road names that exceed twenty-two characters including, spaces shall be avoided.
- I. Road names duplicating facilities shall not be used (example: "Bowling Alley", "Tennis Court").
- J. Usage of names derived from community names or geographic features shall be limited to locations in close proximity to such communities or geographic features.
- K. No proposed road name shall be approved which begins with a word that appears as the first word in three or more official road names.
- L. Where a proposed road is a continuation of or in alignment with an existing road, it shall utilize the same road name as the existing road. A new road name shall be

- required if the proposed road is disconnected from the existing road by an offset greater than sixty (60) feet.
- M. Roads that extend from incorporated areas into unincorporated areas may retain the same name.

<u>Section 12.10.060 Road Type Designators</u> - Road type designators shall be consistent with the roadway's expected traffic use, physical design and location. Designation of roads within unincorporated areas of Walla Walla County should be in accordance with the following guidelines (except in the case of existing and recorded road designations). When an existing road requires renaming, it shall be in compliance with these standards. The following guidelines list the more common road type designators.

Description of Road	Designator	USPS Abbreviation
A dead-end road or cul-de-sac when not an extension of an existing road or a continuation of a proposed road.	Court	CT
A dead-end road or cul-de-sac from which other cul-de-sacs originate.	Place	PL
A road that begins and ends on the same road.	Loop	LP
A road that circles back upon itself.	Circle	CIR
A major road in a community, usually with a definite directional course.	Avenue	AVE
A community or subdivision road, usually with a definite directional course.	Street	ST
Roads which do not have a definite directional course.	Drive	DR
	Lane	LN
	Road	RD
	Way	WAY
A wide road with median and landscaping.	Boulevard	BLVD
A scenic or landscaped road.	Parkway	PKWY
A federal or state designated primary road.	Highway	HWY
Generally along high ground.	Bluff	BLF
A road which crosses a geographic feature (such as a creek) or, a short road that serves as a connector between two other roads.	Crossing	CSG

<u>Section 12.10.070 Road Naming Process</u> - For the purpose of this section, the term "served by a road" shall include right of use whether or not a property actually uses such road.

- A. The appropriate application must be filled out to request a road name.
- B. In the case of plats, proposed road names shall be specified on the plat map or binding site plan. The plat must be reviewed by the MSAG Coordinator for road name approval. A developer may contact the MSAG Coordinator prior to submission to determine the viability of proposed names. Road names will be reserved during the preliminary plat review process by the MSAG Coordinator. Names shall be reserved unless the project is disapproved, withdrawn or otherwise voided. No short plat, final long plat or binding site plan shall be approved by the Planning Department until all road names have been approved by the MSAG Coordinator.

- C. In the case of other new roads or naming of unnamed roads, participation in road naming shall be limited to those who own property served by the road in question. Where the road serves several properties, the landowners shall be given the opportunity to propose the name. In the event that there is no participation from the landowners, the MSAG Coordinator shall name the road in accordance with County procedures. A request to officially name a road must be submitted, in writing, to the MSAG Coordinator. The request shall be prepared by the applicant, on a county application and include the following information:
  - 1. A description of the road's location giving the direction and exact distance from the nearest intersection of two (2) public roads.
  - 2. A list of all landowners having property served by the road in question together with certification that all such landowners have been notified by the applicant of the proposed name.
  - 3. Signatures of landowners representing a majority (greater than fifty (50) percent) of parcels served by the road in agreement of the proposed common road name. The petition will be reviewed by and approved by the MSAG Coordinator prior to submission to the Walla Walla County Board of Commissioners. If resolution of a road name is not reached by the applicant and other property owners within 45 days of the Road Naming Request submission, the County will name the road on behalf of the applicant.
- D. Request to rename existing named streets shall be filed and considered in the same manner as set forth in paragraph "B" of this section.
- E. Where duplicate or other conflicting names exist, the road serving the largest number of existing improved properties shall retain its name, as of the effective date of this ordinance. The other road(s) shall be renamed. The process shall follow the guidelines set up in paragraph C above.

All requirements as specified in the above sections must be met prior to submission to the Walla Walla County Board of Commissioners.

Section 12.10.080 Maintenance of Master Road Names Directory/GIS Coverage - All approved road names, public and private, shall be listed in a Master Road Names Directory to be maintained by the MSAG Coordinator. The data shall then be recreated within the County GIS system.

Section 12.10.090 Private Road Name Sign Installation – Upon approval by the Walla Walla County Board of Commissioners, the MSAG Coordinator will relay the new road name to the Public Works Department. The Public Works Department will be responsible for obtaining and installing the road name sign. It is the responsibility of the applicant to notify the MSAG Coordinator when the road is completed and ready for sign installation.

Section 12.10.100 Road Sign Installation Fees - The Applicant will submit an application and pay a fee to the Planning Department at the time of the plat application. A portion of this fee will be retained for administration and assigning of a road name, while the remaining portion will be forwarded to Public Works to pay for sign installation and future replacement. In case of the renaming of a private road, the applicant will submit an application for a plat amendment and pay the appropriate fees for both the plat amendment and the road sign installation or

replacement. (See the Schedule of Fees for each department, which is subject to review and update on an annual basis or as directed by the Walla Walla County Board of Commissioners.)

## Part 2 - Address Numbering

Section 12.10.110 Address System - Each address will consist of a house number followed by a road name and a designator. The addressing used by the County will be based on an equal interval system, which derives its addresses from the road distance traveled. A sequential numbering system will be applied to dwellings as they are located along a road. From the designated origin of the road, the addresses will be issued every 5.28 feet. For any addresses that fall within an Urban Growth Area, coordination will take place between the respective city's appropriate department and the MSAG Coordinator.

The County shall be divided into two (2) numbered areas. The area known as Burbank will use the same equal interval system as the rest of the County but will have a separate addressing grid. The addressing grid for both areas is described below:

County Divider

Area of Control - All unincorporated areas of Walla Walla County except the area defined under the Burbank Addressing Grid.

North-South Divider

Highway 12

### West-East Divider

- North along Harvey Shaw Road from its intersection with Highway 125.
- Upon intersecting County Highway 124, divider will follow Lyons Ferry Road northwest until intersecting the County boundary.
- For areas south of Highway 12, the City of Walla Walla divider will be extended south along Cottonwood Road and Power Line Road.

Burbank Divider

Area of Control - This area is defined as the area between the County line to the north and west and Union Pacific Railroad lying east of Highway 12 and south until the intersection of Dodd Road.

### North-South Divider

 East along Humorist Road from its intersection with Second Avenue and dead ending at the Union Pacific Railroad.

### West-East Divider

- South along Lake Road from its intersection with Sunset Drive to its intersection with Humorist Road.
- West along Humorist Road to its intersection with Highway 12.
- South along Highway 12 until its intersection with Dodd Road.

**2002-04643**Page: 6 of 11
04/17/2002 04:20P

# Section 12.10.120 Rules - The following rules apply to the County addressing system:

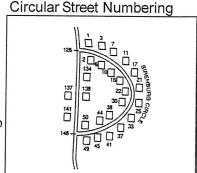
- A. Even numbers shall be on the right side of the road and odd numbers on the left side of the road, facing the direction in which the numbers progress.
- B. All addressable structures and properties shall be numbered on the named road from which the primary access intersects. The specific number shall be determined by the point where the access road meets the named road.
- C. All new roads will have a starting address of one (1). The exceptions will be any addressed roads extending from the urban growth area and/or city limits, which will start with the number following the last possible city address and then continue incrementally by the proposed rural interval. Exceptions may be necessary due to coordination with respective city's addressing systems.
- D. Directionals will only be used when a road crosses through a North-South or East-West divider.

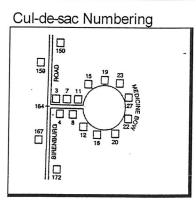
<u>Section 12.10.130 Road Origin</u> - For the purpose of assigning addresses each road will have a designated origin. The factors in determining the origin of a road will be:

- A. Future growth potential. If a road has growth potential, the origin should be designated as the end that is least likely to be extended.
- B. The most logical access for an emergency vehicle.
- C. Roads that cross an axis line will be assigned a directional and will be numbered, beginning with one, closest to the axis and increasing outward in each direction.
- D. Consideration may also be given to the type of development involved, the relationship to the type of development involved, the relationship of the road in question to other roads around it and the pattern of address numbers that result.

# Section 12.10.140 General Numbering Guideline

- A. Loops Roads begin at the low numbered intersection and are numbered with the even numbers on the inside of the circle. The outside of the circle is numbered first and consecutively. The inside is then numbered to match and mix with the outside. This will result, in some cases, in fewer numbers on the inside of the circle, and also with spaces between numbers.
- B. Cul-de-sacs The numbering begins from the intersection toward the cul-de-sac. Once in the cul-de-sac the numbers proceed odd around the left side to the top or bottom of the circle and even around the right side to the top or bottom of the circle.
- C. *Corner Lots* Numbering should be assigned off the road which provides access.
- E. Duplex A number shall be provided to the front entrance of each individual unit.







- E. *Multi-tenant Structures* Apartments and other multi-tenant structures should be numbered with the middle of the building determining the number and then assigning apartment or suite numbers such as 101, 102, 201, 202 or A, B, C to each unit. An example of an apartment address would be 740 Brockman Pkwy Apt. A. (Numerical and alphabetical characters shall not be combined (as in 740-A Brockman Pkwy).)
- F. *Mobile Home Parks* The primary access will determine the number and each mobile home lot will be assigned a lot number or letter. (Numerical and alphabetical characters shall not be combined.)
- G. Accessory Dwelling Units Accessory buildings containing a livable space that have phone service provided, with a telephone number different from the main structure, will be assigned the same number with a letter or number building designation. For example: 15426 Maple Dr. Bldg. C. (Numerical and alphabetical characters shall not be combined.)
- H. Access Buildings will be assigned an address using the methodology detailed in 2.1.

### Section 12.10.150 Assignment of Numbers by MSAG Coordinator

- A. All numbers for properties and addressable structures, shall be assigned by the MSAG Coordinator. Numbers assigned/posted by any other person or entity, including the property owner, shall not be recognized.
- B. Numbers shall be assigned to any new addressable structure shown on a site plan or lot created by short plat or subdivision during the plat review. At the time of land division, temporary addresses shall be assigned. Those addresses may change at a later date due to the location of the point of access to the property. Addresses assigned to a land division shall be determined by the center point of the front lot line. Corner lots will be assigned an address from the center point of the front lot line. The front lot line will be determined by the orientation of the majority of the lots on said block. The Planning Director may choose not to utilize this action if the plat could be further divided or under other extenuating circumstances.
- C. Numbers shall also be assigned when requested by individuals for new structures that do not require a site development plan or subdivision approval.

## Part 3 - Address Posting

<u>Section 12.10.160 Posting Address Numbers</u> - All property owners with telephone service on site shall, obtain their assigned address from the MSAG Coordinator. It shall be posted in accordance with the following guidelines:

- A. 1. Urban/Residential Development Property owners shall post ARABIC numerals only in contrasting background on the residential structure (light on dark/dark on light). They shall be a minimum of four inches in height, and shall be located above or to either side of the main entrance door.
  - 2. Rural/Residential/Other Structures If the structure is located greater than 100 feet from the roadway, and/or when the front entrance is not visible from the road, the Public Works Department shall post addresses on a County-approved address post at

- the access to the property. This is to be approved by the MSAG Coordinator. In some cases, multiple posting may occur.
- B. On corner lots, the number shall be displayed to face the street upon which the property is numbered.
- C. Any numbers previously displayed, which could be confused with or mistaken for the assigned address number and/or are not consistent with this ordinance, shall be removed from the mailbox and property. County assigned address posts shall not be removed.
- D. Numbers shall be properly maintained by the property owner to ensure that they are clearly discernible from the roadway upon which the property is numbered.
- E. Display of address numbers for multi-tenant structures and multi-building complexes:
  - 1. If a building is divided into multiple units with separate entrances, and each unit has been assigned an individual number, then each unit number shall be displayed on or next to the main doorway.
  - 2. The address range of all individual unit numbers within a multi-unit building shall be displayed in a manner that is clearly visible from the road upon which the units are numbered. If more than one building shares an access, then the address range, shall also be displayed on each building.

<u>Section 12.10.170 Address Posts</u> - The address post will be a blue plastic post, approximately 4 ft tall, with 3" reflective white numbers and a 3" strip of reflective orange tape.

Section 12.10.180 Issuance of Post - At the time a building permit is issued for new construction, which would require an address post, the applicant must submit an application for an approved address. Following issuance of the building permit, the MSAG Coordinator will notify the agent responsible for installing the posts that an address has been issued. Unless delay of installation is a request in writing by applicant, the address post shall be installed as soon as practicable. When a delay of installation is granted the applicant shall be responsible for notifying the MSAG Coordinator when the address post installation is needed.

Section 12.10.190 Address Post Installation Fees – The Applicant will submit an application and pay a fee to the Planning Department. A portion of this fee will be retained for administration and assignment of an address, while the remaining portion will be forwarded to the agent responsible for installation of address posts. (See the Schedule of Fees from each department which is-subject to review and update on an annual basis or as directed by the Walla Walla County Board of Commissioners.)

# Section 12.10.200 Responsibility for Address Signing Maintenance -

A. Non-County Address Post Signage: If an address is legally posted on a residence or other area, but is not required by this ordinance to be posted on a County assigned address post, the property owner is responsible for continued maintenance and posting of the property address. If not posted or not visible from the street or road, Walla Walla County is not responsible if an emergency call cannot be located by Emergency Service Personnel. The property owner will be subject to fines by the County for failure to properly maintain or post addresses as of the effective date of this ordinance.

B. County Address Post Signage: The property owner is responsible for posting and the continued maintenance and presence of the address on the residence. The property owner has 30 days to contact the County for a replacement post if it is absent from the property. If not posted or not visible from the street or road, Walla Walla County is not responsible if an emergency call cannot be located by Emergency Service Personnel. The property owner will be subject to fines by the County for failure to properly notify the appropriate department as of the effective date of this ordinance.

### Part 4 - Administrative Provisions

<u>Section 12.10.210 Interpretation</u> - Interpretation of this Ordinance shall be according to the purpose and intent as outlined in Section 1.1.

<u>Section 12.10.220 Administrative Procedures</u> - Administrative procedures may be adopted to facilitate implementation of the purpose and intent of this Ordinance.

Section 12.10.230 Administration Interpretation – Upon request or as determined necessary, the Planning Director may interpret the meaning or application of the provisions of said Titles and issue a written administrative interpretation. Requests for interpretation shall be written and shall concisely identify the issue and desired interpretation.

Section 12.10.240 Variances - The Planning Director shall have the authority to review a variance from the terms of this Title in specific cases where it is found that the variance if granted will not be contrary to the public interest and where, because of special existing conditions, a literal enforcement of the provisions of this Title would result in unnecessary hardship. A variance from the terms of this Title shall not be considered by the Planning Director unless and until:

- A. A written application for a variance is submitted demonstrating:
  - 1. That literal interpretation of the provisions of this Title would deprive the applicant of rights commonly enjoyed by other properties in the same district under the terms of this Title; and
  - 2. That the variance requested will not confer on the applicant any special privilege that is denied by this Title to other lands in the same district.
- B. The Planning Director shall further make a finding that the variance if approved will be in harmony with the general purpose and intent of this Title.
- C. In any variance, the Planning Director may prescribe appropriate conditions and safeguards in conformity with this Title. Violation of such conditions and safeguards, when made a part of the terms under which the variance is granted, shall be deemed a violation of this Title and punishable under Section 5.2 of this Title.

<u>Section 12.10.250 Conflict with other Ordinances</u> - Whenever the regulations of this Ordinance conflict with those of another ordinance, the stricter shall apply.



Section 12.10.260 Severability - If any section, subsection, sentence, clause, phrase, or portion of this Ordinance is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portions.

### Part 5 - Ordinance Non-Compliance and Enforcement

Section 12.10.270 Reporting - All emergency service and other agencies may report noncompliant addresses to the MSAG Coordinator on the appropriate form.

Section 12.10.280 Violations – It is unlawful for any person without prior authorization from the MSAG Coordinator, to knowingly remove, alter, deface or destroy a road sign or address post, or display any other sign similar to County approved road signs in any manner that may create a hazard to public health, safety and welfare.

Section 12.10.290 Fines – Any person who is found to have violated or failed to comply with any of the provisions of this chapter shall be guilty of a civil infraction which shall be punished by a civil penalty not to exceed \$250.00. Each day a person is in violation of this chapter shall be deemed a separate violation until compliance is achieved. Upon failure to respond to a notice of infraction, or failure to appear at any court hearing, the court may order that the fine for the violation be imposed and that the amount due be immediately assigned to a collection agency for collection.

Section 12.10.300 Enforcement - The MSAG Coordinator or designee shall be responsible for enforcement of this Ordinance. Upon approval/finalization of an address/road request permit, the MSAG Coordinator shall be responsible for assignment of addresses and road names in accordance with this Ordinance. Should the MSAG Coordinator become aware that a building number/road sign has become missing, illegible or incorrect, said Agent shall notify the property owner in writing and require that correction be made in accordance with this Ordinance, said correction to be done within thirty days of such notice. In cases of replacement of the road sign/address post, the MSAG Coordinator shall have authority to issue a notice of civil infraction for violations of any provisions of this chapter.

day of

**Board of County Commissioners** 

Clerk of the Board



# BOARD OF COUNTY COMMISSIONERS WALLA WALLA COUNTY, WASHINGTON

IN THE MATTER OF SETTING A FEE SCHEDULE FOR SERVICES PROVIDED TO IMPLEMENT WALLA WALLA COUNTY CODE CHAPTER 12.10, ADDRESSING STANDARDS AND GUIDELINES

RESOLUTION NO. U2176

**WHEREAS,** on the 20<sup>th</sup> day of May, 2002, a public hearing was held to hear testimony in favor of and/or in opposition to setting fees for the services provided to install address posts and private road name signs in accordance with Walla Walla County Code, Chapter 12.10; and

**WHEREAS,** it has been determined that the proposed fees are appropriate for the service to be provided; now therefore,

**BE IT HEREBY RESOLVED** by this Board of Walla Walla County Commissioners, that the Schedule of Fees for the installation of address posts and private road name signs attached and by this reference made a part of this resolution, be adopted effective immediately.

Done this 20th day of May, 2002

Attest: While K L

Clerk of the Board

Chairman

Commissioner

Commissioner

Constituting the Board of County Commissioners of Walla Walla County, Washington

# **SCHEDULE**

OF

# SERVICE FEES FOR ADDRESSING

PER

# WALLA WALLA COUNTY CODE CHAPTER 12.10

All Zones Are Measured In Straight-Line Distances From The Walla Walla County Public Works Department, 990 Navion Lane, Walla Walla, Washington.

# ADDRESS POST INSTALLATION:

Zone	Service Fee
0-10 Miles	\$ 65
10-25 Miles	\$ 80
More Than 25 Miles	\$100

# PRIVATE ROAD NAME SIGN INSTALLATION:

Zone	Service Fee
0-10 Miles	\$100
10-25 Miles	\$115
More than 25 Miles	\$135

# **Address Post Installation Cost Estimate**

0 - 10 mile zone	Average <u>Cost</u>	Recommended <u>Charge</u>
Labor And Equipment Materials Reserve	30.60 20.84 12.50 63.94	65.00
10 - 25 mile zone		
Labor And Equipment Materials Reserve	42.49 20.84 12.50 75.82	80.00
Outside 25 miles		
Labor And Equipment Materials Reserve	65.03 20.84 12.50 98.37	100.00

# Road Sign Installation Cost Estimate

0 - 10 mile zone	Average <u>Cost</u>	Recommended <u>Charge</u>
Labor And Equipment Materials Extra Sign Reserve	33.00 27.20 27.20 12.50 99.90	100.00
10 - 25 mile zone		
Labor And Equipment Materials Extra Sign Reserve	44.88 27.20 27.20 12.50 111.79	115.00
Outside 25 miles		
Labor And Equipment Materials Extra Sign Reserve	67.43 27.20 27.20 12.50 134.33	135.00

### Road Sign Installation Cost Estimate

Fringe benefits =

48% of direct labor

Material replacement =

15% of cost of material

Administration =

5% of total cost

### Assume a minimum of 2 signs installed per trip

	Rate	<u>OH</u>	<u>Admin</u>	<b>Total</b>
Labor	18.93	9.09	0.45	28.47
Labor	16.59	7.96	0.40	24.95
Sign Truck	5.00	-	0.25	5.25
Post (2)	24.00	3.60	0.18	27.78
Bracket (2)	10.00	1.50	0.08	11.58
Road Signs (4)*	60.00	9.00	0.45	69.45

<sup>\*</sup>Assume 1 sign for each road for immediate installation and 1 sign for each held in inventory for future replacement, 4 total

O -	10	mi	le.	70	ne

Assume 10 miles at 35 mph = Assume 3 miles at 35 mph =

0.29 hrs 0.09 hrs

	High		High	Low		Low	Average	Recommended
	Rate	<u>Hrs</u>	Cost	Rate	<u>Hrs</u>	Cost	Cost	Charge
Travel (2 trips incl truck)	33.72	1.14	38.54	30.20	0.34	10.35		
Remob	33.72	0.30	10.12	30.20	0.30	9.06		
Locate	33.72	0.50	16.86	30.20	0.50	15.10		
Installation	33.72	0.50	16.86	30.20	0.50	15.10		
Reserve			25.00			25.00		
			107.37			74.62		
Sign materials			108.81			108.81		
Cost for 2 signs			216.18			183.42		
Cost Each			108.09			91.71	99.90	100.00

111.79

115.00

135.00

### 10 - 25 mile zone

Assume 25 miles at 50 mph = Assume 12 miles at 50 mph =

0.50 hrs 0.24 hrs

High		High		Low		Low
Rate	Hrs	Cost		Rate	Hrs	Cost
33.72	2.00	67.44		30.20	0.96	28.99
33.72	0.30	10.12		30.20	0.30	9.06
33.72	0.50	16.86		30.20	0.50	15.10
33.72	0.50	16.86		30.20	0.50	15.10
		25.00				25.00
		136.28				93.26
		108.81				108.81
		245.08				202.06
		122.54				101.03
	Rate 33.72 33.72 33.72	Rate         Hrs           33.72         2.00           33.72         0.30           33.72         0.50	Rate         Hrs         Cost           33.72         2.00         67.44           33.72         0.30         10.12           33.72         0.50         16.86           33.72         0.50         16.86           25.00         136.28           108.81         245.08	Rate         Hrs         Cost           33.72         2.00         67.44           33.72         0.30         10.12           33.72         0.50         16.86           33.72         0.50         16.86           25.00         136.28           108.81         245.08	Rate         Hrs         Cost         Rate           33.72         2.00         67.44         30.20           33.72         0.30         10.12         30.20           33.72         0.50         16.86         30.20           33.72         0.50         16.86         30.20           25.00         136.28         108.81           245.08         245.08	Rate         Hrs         Cost         Rate         Hrs           33.72         2.00         67.44         30.20         0.96           33.72         0.30         10.12         30.20         0.30           33.72         0.50         16.86         30.20         0.50           33.72         0.50         16.86         30.20         0.50           25.00         136.28         108.81         245.08

#### Outside 25 miles

Assume 45 miles at 50 mph = Assume 27 miles at 50 mph =

0.90 hrs 0.54 hrs

k.
-
134.33

## **Address Post Installation Cost Estimate**

Fringe benefits = Material replacement =

48% of direct labor

Cost for 2 posts

Cost Each

15% of cost of material

Administration =

5% of total cost

## Assume a minimum of 2 posts installed per trip

	Labor Labor Sign Truck Address post (2)	Rate 18.93 16.59 5.00 36.00	OH 9.09 7.96 - 5.40	Admin 0.45 0.40 0.25 0.27	Total 28.47 24.95 5.25 41.67					
0 - 10 m										
	Assume 10 miles at 35 mpl Assume 3 miles at 35 mpl		0.29 0.09							
	Travel (2 trips incl truck) Remob Locate Installation Reserve	High Rate 33.72 33.72 33.72 33.72	Hrs 1.14 0.15 0.50 0.50	High <u>Cost</u> 38.54 5.06 16.86 16.86 25.00 102.32		Low Rate 30.20 30.20 30.20 30.20	Hrs 0.34 0.15 0.50 0.50	Low <u>Cost</u> 10.35 4.53 15.10 15.10 	Average <u>Cost</u>	Recommended <u>Charge</u>
	Address materials Cost for 2 posts Cost Each			41.67 143.99 71.99				<u>41.67</u> 111.76		
10 - 25 m				71.99				55.88	63.94	65.00
	Assume 25 miles at 50 mp Assume 12 miles at 50 mp		0.50 h 0.24 h							
	Travel (2 trips incl truck) Remob Locate Installation Reserve	High Rate 33.72 33.72 33.72 33.72	Hrs 2.00 0.15 0.50 0.50	High <u>Cost</u> 67.44 5.06 16.86 16.86 25.00 131.22		Low Rate 30.20 30.20 30.20 30.20	Hrs 0.96 0.15 0.50 0.50	Low <u>Cost</u> 28.99 4.53 15.10 15.10 25.00 88.72		
	Address materials Cost for 2 posts		:-	41.67 172.89				41.67		
	Cost Each			86.45				130.39 65.20	75.82	80.00
Outside 28	5 miles Assume 45 miles at 50 mph Assume 27 miles at 50 mph		0.90 h 0.54 h							
	Travel (2 trips incl truck) Remob Locate Installation Reserve Address materials	High Rate 33.72 33.72 33.72 33.72	Hrs 3.60 0.15 0.50 0.50	High <u>Cost</u> 121.39 5.06 16.86 16.86 25.00 185.17 41.67		Low Rate 30.20 30.20 30.20 30.20	Hrs 2.16 0.15 0.50 0.50	Low <u>Cost</u> 65.23 4.53 15.10 15.10 25.00 124.97		

41.67

226.84

113.42

41.67

166.64

83.32

98.37

100.00