

Traffic Control Plans

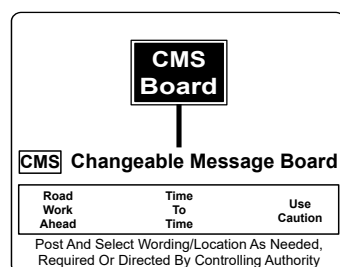
Utility Access, Repairs & Improvements

Shoulder Closure & Lane Shift & Flagging Control

Llano Road & Todd Road

City Of Santa Rosa, Ca

Contractor:



GENERAL NOTES

- These traffic control plans conform to the latest edition of the MUTCD manual & are intended for use by trained & licensed traffic controllers/supervisors, with the addition of proper traffic devices and the knowledge of using them at all times.
- The location, spacing & placement of the signs/channelizers within these plans are guidelines and may differ from actual field setup/conditions, depending on Grade, Alignment, posted speed & intersections.
- Contractor shall notify all affected by traffic setup including local fire & law enforcement, ambulance services, public services, residents & business within 72 hours before the start of any work.
- All job sites shall appoint a designated person(s) to maintain & uphold that the traffic control is maintained to meet standards at all times and to provide any accommodations for non-motorists.
- Pedestrian & disabled access shall be maintained at all times. Follow Local guidelines and/or MUTCD standards.
- All signage shall conform to local agency standards or per the MUTCD manual. During non-working hours signage & channelizers shall be removed or covered.
- A minimum 10' (ten feet) travel lanes must be maintained at all times.
- No Personal or equipment shall be within the buffer zone or transition areas at all times.
- Temporary traffic control plans are valid only in conjunction with a permit issued by the public works department or the local controlling authority's. A temporary traffic control plan itself is not a permit to preform work.
- Contact underground service alert (811) 48 hours prior to any underground work.



~ RECOMMENDED ADVANCED WARNING SIGN & CHANNILIZER SPACING (Table "A")

MUTCD Table (6C-1,2,3,4 & 6F-101) Data Based On 10'-11'-12' Lane Offsets. Field Adjustments May Be Required.

Posted Speed Limit (mph)	Sign Spacing	Shoulder Taper 10'- 11'- 12'	Shifting Taper 10'- 11'- 12'	Merging Taper 10'- 11'- 12'	Buffer Space	Max Cone Spacing			Taper Formula
						Taper	Tangent	Conflict	
25	100'	35'- 39'- 42'	53'- 58'- 63'	105'- 115'- 125'	155'	25'	50'	12'	L = $\frac{WS^2}{60}$
30	250'	50'- 55'- 60'	75'- 83'- 90'	150'- 165'- 180'	200'	30'	60'	15'	
35	250'	69'- 75'- 82'	103'- 113'- 123'	200'- 225'- 245'	250'	35'	70'	17'	
40	250'	89'- 98'- 107'	134'- 147'- 160'	267'- 294'- 320'	305'	40'	80'	20'	
45	350'	150'- 165'- 180'	225'- 248'- 270'	450'- 495'- 540'	360'	45'	90'	22'	L = WS
50	500'	167'- 184'- 200'	250'- 275'- 300'	500'- 550'- 600'	425'	50'	100'	25'	
55	500'	184'- 202'- 220'	275'- 303'- 330'	550'- 605'- 660'	495'	55'	110'	27'	
60	1000'+	200'- 220'- 240'	300'- 330'- 360'	600'- 660'- 720'	570'	60'	120'	30'	
65	1000'+	217'- 238'- 260'	325'- 358'- 390'	650'- 715'- 780'	645'	65'	130'	32'	

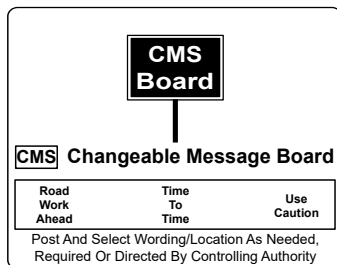
*Data Is Based On Peak 85th Percentile Speed Prior To The Start Of Work And/Or Anticipated Operating Speeds (MPH).
L = Taper Length(ft). S = Posted Speed. W = Width Of Offset (ft)

Emergency Contact Information: Ryan McGraw 503.726.8914 Rmcgraw@sakon.com

SEE GENERAL NOTES ON COVER PAGE.

NOTES:

- Contractor shall maintain access to all driveways, pedestrians & emergency vehicles within the affected area's, unless otherwise noted.
- Contractor shall maintain a safe "ADA" compliant accessible pedestrian travel way at all times & have a designated escort to assist if needed.
- Contractor shall perform all appropriate measures to uphold the safety of any bicyclists within the affected areas.
- Contractor shall post temporary "No Parking" signage within all affected areas 72 hours before the start of work. notify all affected residents/businesses.
- Contractor may remove or reduce the control zone when the affected area is no longer needed.
- Place W20-1 sign on any side street or high volume driveway that is within the traffic control boundaries.

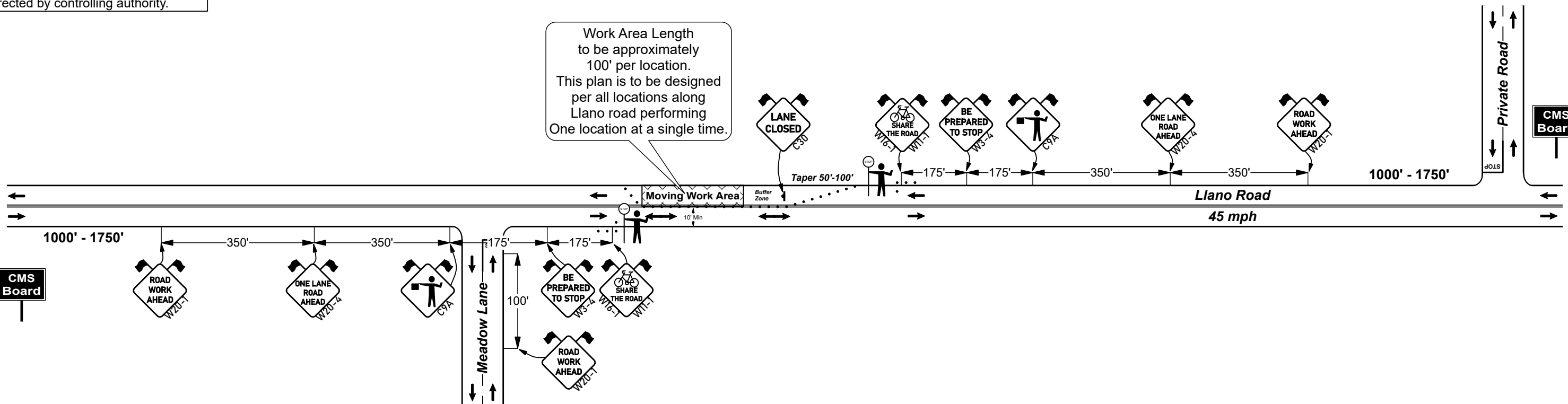


3/28/2025

Flagger Note:

Two or more flaggers may be needed depending on vehicle volume, speeds & road conditions. Flaggers to be in line of sight or radio communication must be used. Adjust as needed or directed by controlling authority.

Changeable Message Boards Shall Be Placed At Ends Of Projection Location, a minimum of ten (10) days prior to the start of construction.



Legend	
	Channelizers/Delineators (+/-)
	CMS Changeable Message Sign
	Sign Stand
	Work Area

Manifest	
36 x	Channelizers/Delineators (+/-)
24 x	Sign Flags
12 x	Sign Stand
3 x	W20-1 Road Work Ahead
2 x	C9A Flagger Ahead
2 x	CMS Changeable Message Sign
2 x	Flagmen
2 x	W11-1(CA) Share The Road Combo
2 x	W20-4 One Lane Road Ahead
2 x	W3-4 Be Prepared To Stop
1 x	C30 Lane Closed

	Sak Construction	WORKING HOURS -	Contractor Shall Maintain Access To All Residents, Businesses, Pedestrians & Emergency Vehicles At All Times Contractor may implement the use of flagger(s) when needed or directed depending on vehicle speeds, volume & road conditions to help slow or stop traffic. C9A & W3-4 signage in addition to this plan, shall be spaced in all directions (See "Table A" & General Notes).
	Utility Access, Repairs & Improvements	Job/P.O. # - 24001	
	Llano Road	Date Created - 3/27/2025	
	City Of Santa Rosa, CA	Drawing Not To Scale	

NATIONAL TRAFFIC DESIGNS
 DRAFTED BY
 STEVE NELSON
 ATSSA# 620272
 EXP. 2/12/2027
 ATSSA

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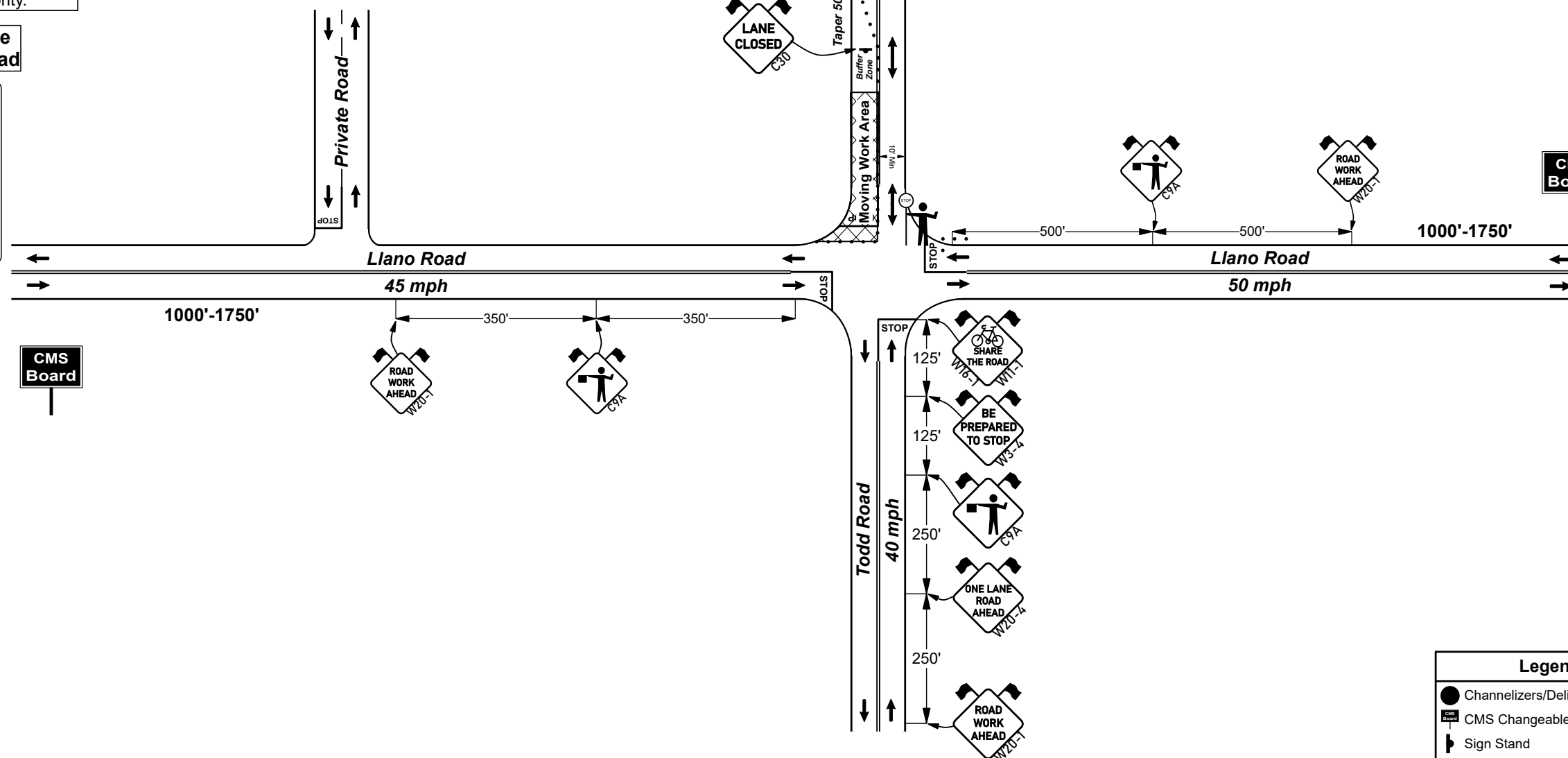
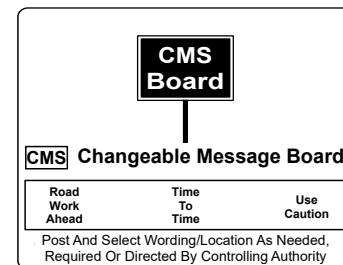
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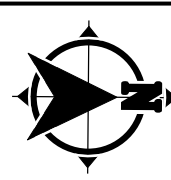
Changeable Message Boards Shall Be Placed At Ends Of Projection Location, a minimum of ten (10) days prior to the start of construction.

Setup May Be Reversible To Either Side Of The Road



Legend	
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	CMS Changeable Message Sign
	Sign Stand
	Work Area

Manifest	
38 x	Channelizers/Delineators (+/-)
30 x	Sign Flags
15 x	Sign Stand
4 x	C9A Flagger Ahead
4 x	W20-1 Road Work Ahead
2 x	CMS Changeable Message Sign
2 x	Flagmen
2 x	W11-1(CA) Share The Road Combo
2 x	W20-4 One Lane Road Ahead
2 x	W3-4 Be Prepared To Stop
1 x	C30 Lane Closed

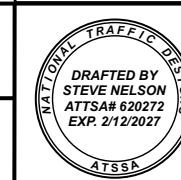


Sak Construction
Utility Access, Repairs & Improvements
Llano Road & Todd Road
City Of Santa Rosa, CA

WORKING HOURS -
Job/P.O. # - 24001
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Drawing Not To Scale

Contractor Shall Maintain Access To All Residents, Businesses, Pedestrians & Emergency Vehicles At All Times

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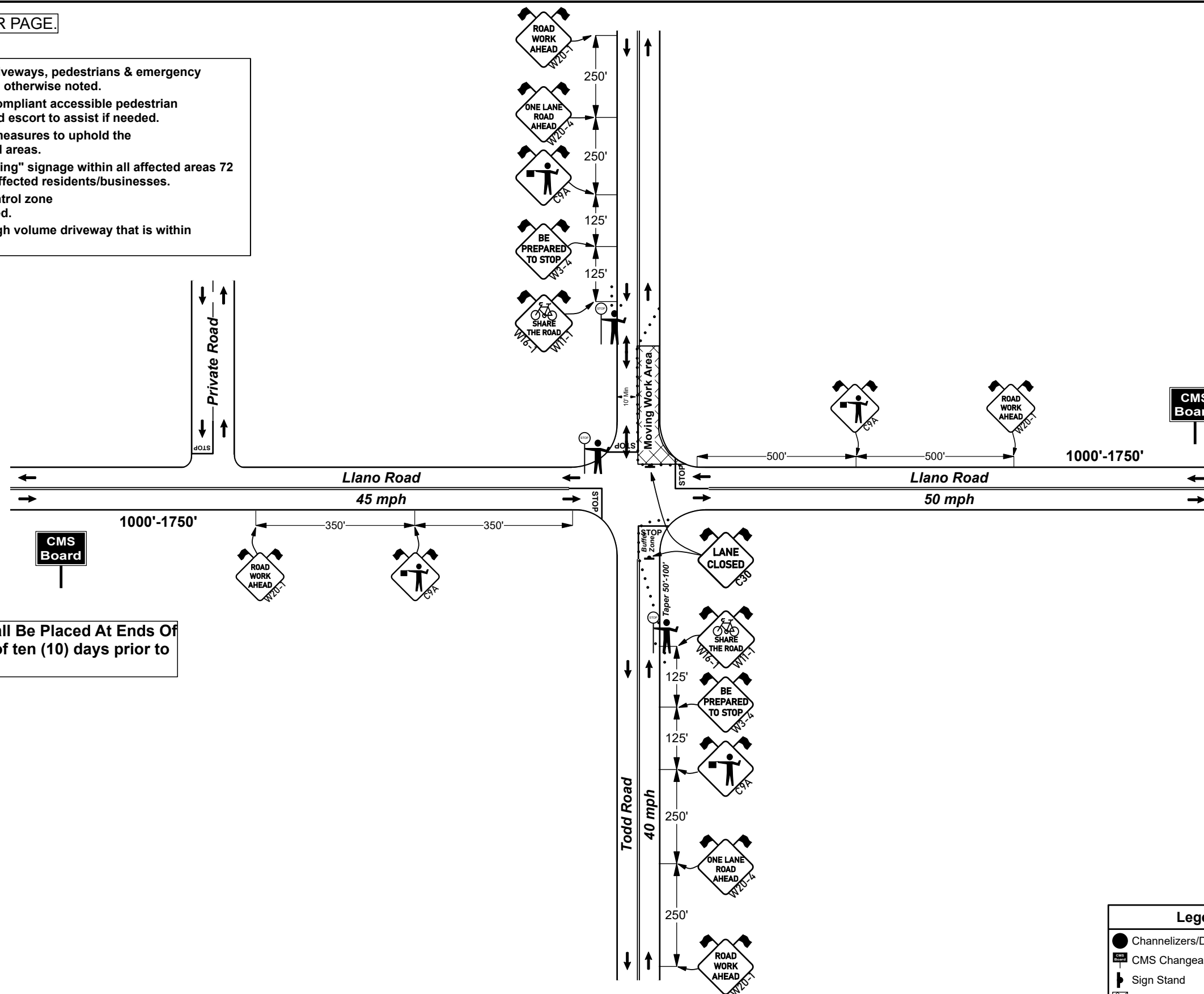
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CMS Board
 CMS Changeable Message Board

Road Work Ahead	Time To Time	Use Caution
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Post And Select Wording/Location As Needed, Required Or Directed By Controlling Authority

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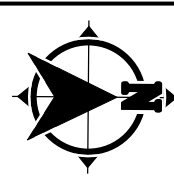


Legend

- Channelizers/Delineators (+/-)
- CMS Changeable Message Sign
- Sign Stand
- Work Area

Manifest

- 46 x Channelizers/Delineators (+/-)
- 32 x Sign Flags
- 16 x Sign Stand
- 4 x C9A Flagger Ahead
- 4 x W20-1 Road Work Ahead
- 3 x Flagmen
- 2 x C30 Lane Closed
- 2 x CMS Changeable Message Sign
- 2 x W11-1(CA) Share The Road Combo
- 2 x W20-4 One Lane Road Ahead
- 2 x W3-4 Be Prepared To Stop

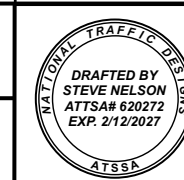


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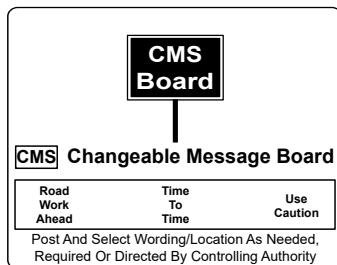
503.726.8914

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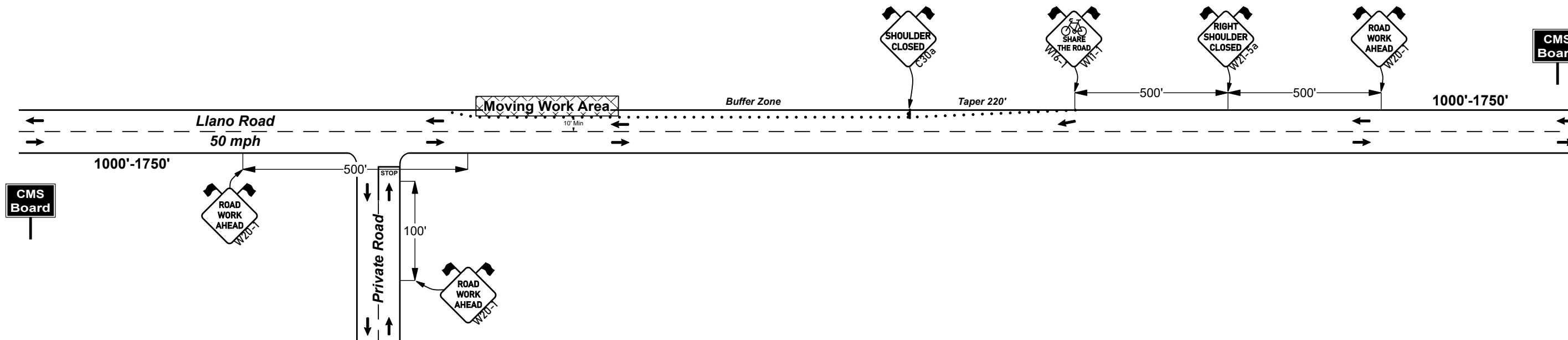
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Changeable Message Boards Shall Be Placed At Ends Of Projection Location, a minimum of ten (10) days prior to the start of construction.



Legend		Manifest	
	Channelizers/Delineators (+/-)	68 x	Channelizers/Delineators (+/-)
	Sign Flags	12 x	Sign Flags
	Sign Stand	6 x	Sign Stand
	3 x W20-1 Road Work Ahead	3 x	W20-1 Road Work Ahead
	2 x CMS Changeable Message Sign	2 x	CMS Changeable Message Sign
	1 x C30a Shoulder Closed	1 x	C30a Shoulder Closed
	1 x W11-1(CA) Share The Road Combo	1 x	W11-1(CA) Share The Road Combo
	1 x W21-5a Right Shoulder Closed	1 x	W21-5a Right Shoulder Closed

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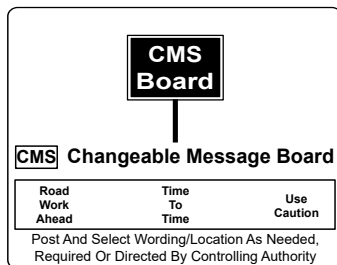
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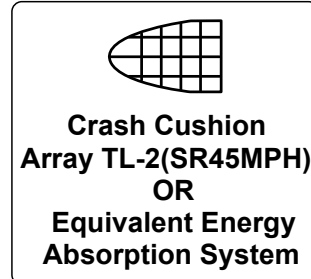


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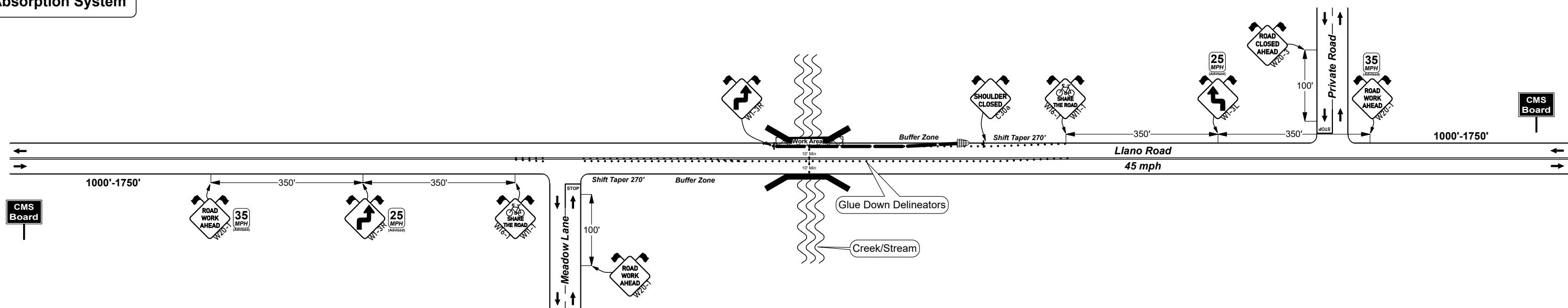
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K-Rail Reflective Markers Every 20'
K-Rail Taper Shall Be Sloped At A 10:1 Ratio

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Legend		Manifest
	Channelizers/Delineators (+/-)	154 x Channelizers/Delineators (+/-)
	Sign Flags	20 x Sign Flags
	Sign Stand	11 x Sign Stand
	CMS Changeable Message Sign	3 x W20-1 Road Work Ahead
	Crash Cushion Array	2 x CMS Changeable Message Sign
	K-Rail	2 x W1-3R Lane Shift Right
	Water Way	2 x W11-1(CA) Share The Road Combo
	Work Area	1 x C30a Shoulder Closed
		1 x Crash Cushion Array
		1 x W1-3L Lane Shift Left
		1 x W20-3 Road Closed Ahead

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