MUNICIPAL SERVICES AGENCY
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN TEMPLATES

OCTOBER 2010

Revised February 2014

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REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–Add Sheets 45.1 – 50	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

TABLE OF CONTENTS

JOB NO.
TEMPLATE NAME TC–01
DRAWN LB
DESIGNED
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC–01 OF 50 SHEETS

General Notes

1. All work shall comply with the latest edition of the County of Sacramento Standard Construction Specifications, County of Sacramento Improvement Standards, applicable Caltrans Standards, the California Manual of Uniform Traffic Control Devices (CaMUTCD) and other applicable provisions.

2. A minimum of one person shall be assigned to provide full time continuous monitoring and maintenance of traffic control devices.

3. All cones shall be 28 inches min. in height. Cones used during night time hours shall be equipped with retro reflective bands (or sleeves). Maximum cone spacing shall be as indicated but shall not be greater than 50 ft.

4. 1 The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when work is not protected by a fixed barrier. Any other use of W13-1P or C17 series signs may only be considered when an engineering analysis concludes that a reduction of traffic speeds may help to improve traffic safety. C17 series signs may be used only when workers are actively engaged in construction activities. Speed reductions if justified, shall be lowered in 10 mph increments using C17 / W13-1P signage until the justified speed is obtained.

5. G20-2 "END ROAD WORK" sign shall be placed at the end of areas controlled by temporary traffic controls.

6. County inspector may direct the utility/contractor to discontinue operations at any time if the inspector determines that the work creates an undue safety risk or severe traffic congestion.

7. Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first and shall be placed progressively towards the work area.

8. Existing signs that may conflict with temporary traffic control devices shall be covered.

9. Flaggers shall wear approved safety vest, be equipped with stop / slow paddles and shall be in sight of each other or in direct communications at all times.

10. Minimum traffic lane widths shall be as follows:
    10-feet where no fixed lateral obstructions exists
    11-feet where fixed lateral obstruction (k-rail) exists on one side of lane
    12-feet where fixed lateral obstruction exists on both sides of lane

11. Construction signage shall be promptly removed or covered whenever the message is not applicable or not in use.

12. Driveway access shall be maintained at all times unless other arrangements have been made through the affected property owner.

13. Buffer and taper areas shall remain clear of vehicles and equipment (except for appropriate TCP devices) at all times.

14. Work involving modifications to normal traffic signal operations shall be coordinated with the Sac County Traffic Operations center.

15. On roadways where parking is allowed, temporary "No Parking" signage may be placed where roadway widths are inadequate.

16. Contractor shall coordinate with county inspector to verify, identify and address conflicts with other planned or ongoing projects in the area.

17. If construction obstructs existing bus stop, the contractor shall coordinate work with Regional Transit (RT), 48 hours in advance of work and make provisions acceptable with RT to provide an alternative temporary location.

18. Contractor shall contact schools affected by construction to determine if school is in session. If school is in session, no traffic affecting construction activities shall take place 30 minutes before and 30 minutes after the arrival (AM) or departure (PM) bells. Contractor shall also notify any fire station which may be affected by construction activities.

Instructions For Using Templates

1. Standard Traffic Control Templates are for use on projects requiring short duration (one day or less) traffic control measures and shall not be used on roadways with 3 or more lanes in any direction or at the following locations:

Street	Limits
Arden Way	Sac. City Limits to Eastern Ave.
Auburn Blvd.	Watt Ave. to Winding Way 1
Fair Oaks Blvd.	Sac City Limit to Sunrise Blvd.
Florin Rd.	Sac City Limit to Stockton Blvd.
Folsom Blvd.	Sac City Limit to Bradshaw Rd.
Fulton Ave.	All
Greenback Lane	All
Hazel Ave.	All
Howe Ave.	Folsom Blvd. to Alta Arden Express Way
Madison Ave.	Citrus Heights City Limits to Hazel Ave.
Sunrise Blvd.	All
Watt Ave.	Antelope Rd. to Kiefer Blvd

   Plans at these locations shall be site specific and require specific review and approvals.

2. Work covered under these Standard Traffic Control Templates shall be limited to week days between the hours of 8:00 am to 3:30 pm. Work outside of these working hours requires specific approval. In accordance with Section 7-8.06 of County of Sacramento Standard Construction Specifications, work shall be suspended and no activities that interfere with public traffic shall be conducted on designated streets during holiday season (defined as the four-day Thanksgiving weekend and December 8 through January 1) - See Holiday Moratorium Maps.

3. Use of Standard Traffic Control Templates does not relieve the user of other requirements, including 24 hour notification prior to beginning work. For emergency work, notification shall be provided within 1 hour of dispatch as defined in Section 7-8.03 of the County Standard Construction Specifications. Authorized utilities will not be required to provide notification if the work does not involve excavation and does not obstruct or modify pedestrian, bicycle or vehicular traffic patterns.

4. Users of these Standard Traffic Control Templates shall review field conditions prior to beginning work. Users shall determine specific aspects of the roadway at the work location; determine the most appropriate template to be used for the proposed work; complete data table and revise the template with notes and sketches as appropriate to delineate actual field conditions. Locations where templates do not reasonably depict actual field conditions shall be submitted for review.

5. Revised Standard Traffic Control Template shall be on site at all times in which traffic controls are in place and available for review by the County inspector.

6. Failure to comply with these requirements shall be considered an encroachment violation and may be subject to penalties as indicated in Section 12.08 of the County code.

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–Revise General Note 4 / Revise Instr 1	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

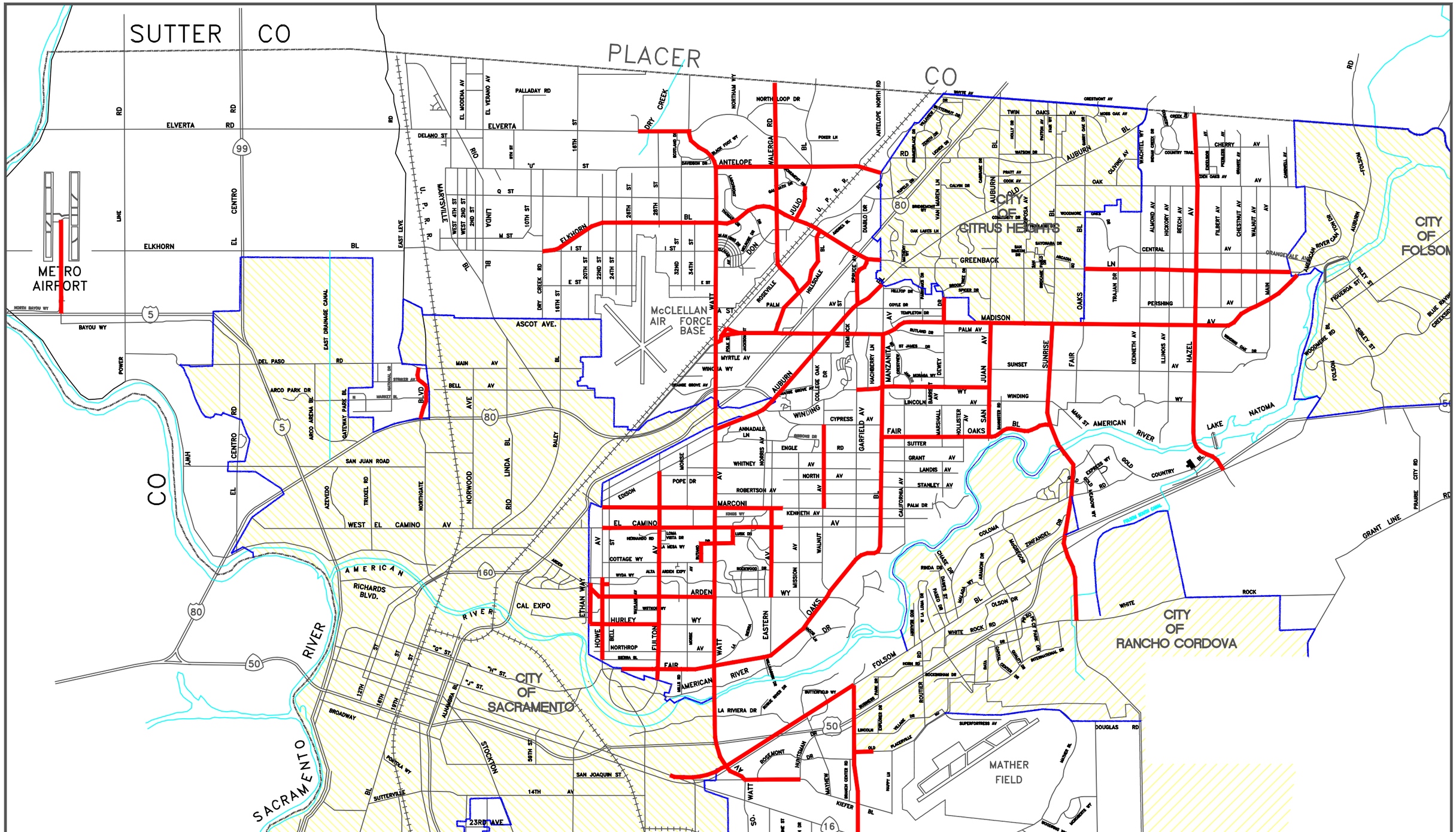
M & O TYPICAL TRAFFIC CONTROL PLANS

GENERAL NOTES

JOB NO.
TEMPLATE NAME TC-02
DRAWN LB
DESIGNED
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-02 OF 50 SHEETS



REVISIONS			
REV.	DESCRIPTION	BY	DATE

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M & O TYPICAL TRAFFIC CONTROL PLANS

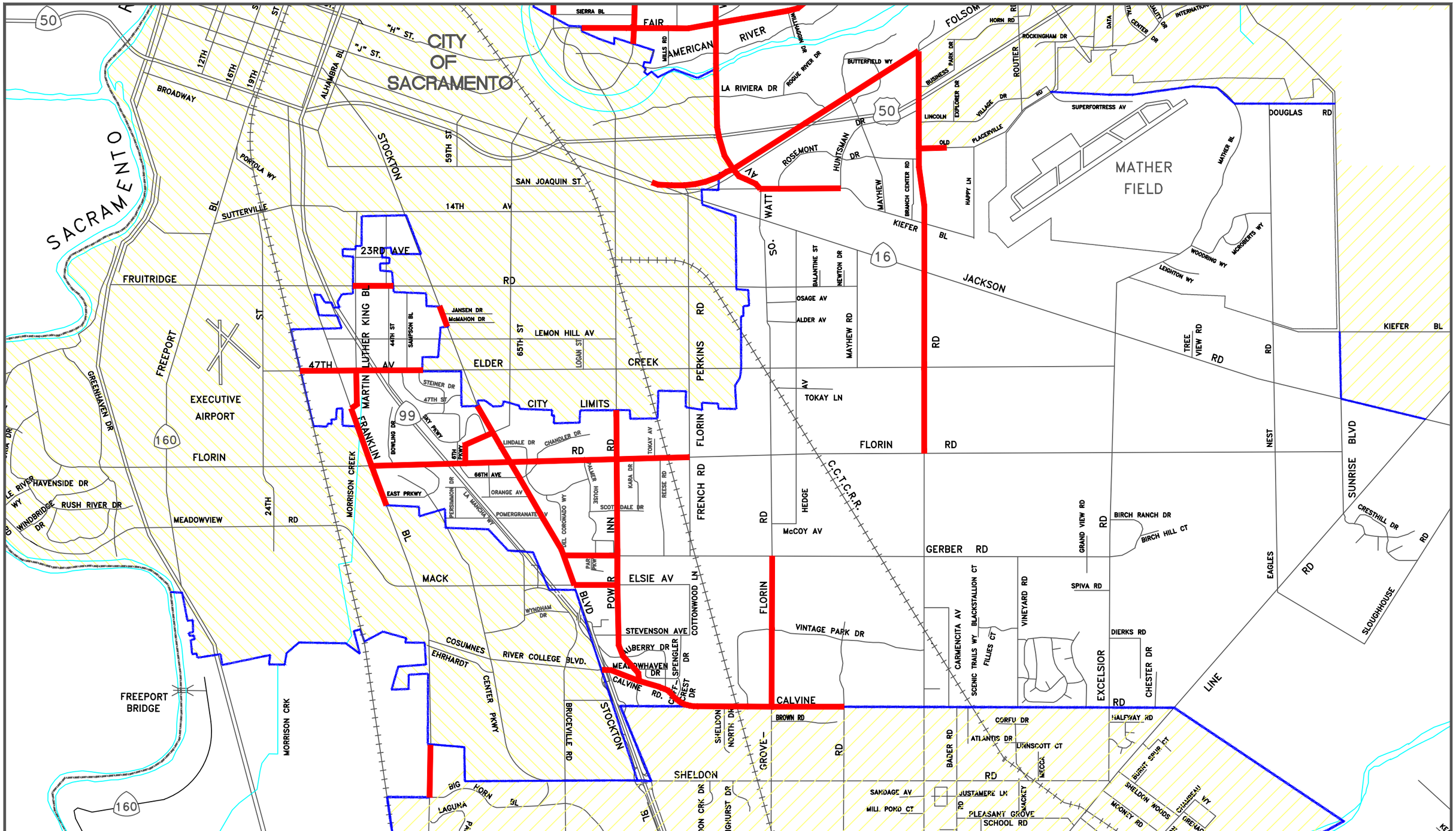
HOLIDAY MORATORIUM MAP

NORTH AREA

JOB NO. _____
TEMPLATE NAME TC-03
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET
TC-03
OF 50 SHEETS



REVISIONS			
REV.	DESCRIPTION	BY	DATE

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DEPARTMENT OF TRANSPORTATION

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M & O TYPICAL TRAFFIC CONTROL PLANS

HOLIDAY MORATORIUM MAP

SOUTH MAP

JOB NO.
TEMPLATE NAME TC-04
DRAWN LB
DESIGNED
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

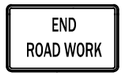
SHEET
TC-04
OF 50 SHEETS

C9A(CA)
(OB)

C12(CA)
(OB)

C17 1
(OB)

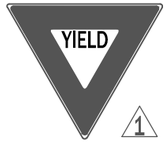
C30(CA)
(OB)



G20–2
(OB)

R1–1
(RW)

W3–5a (XX) 1
(OB)



R1–2 1
(RW)

R1–2aP 1
(BW)

SIGN COLOR LEGEND

(OB)	ORANGE & BLACK
(RW)	RED & WHITE
(BW)	BLACK & WHITE
(BY)	BLACK & YELLOW
(RBW)	RED, BLACK & WHITE

R3–1
(RBW)

R3–2
(RBW)

R3–4 1
(RBW)

R3–5L
(BW)

R3–5R
(BW)

R3–7L
(BW)

R3–7R
(BW)

R4–7
(BW)

R4–8
(BW)

R9–3A
(RBW)

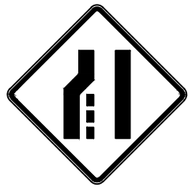
W1–3L
30 MPH Or Less 1
(OB)

W1–3R
30 MPH Or Less 1
(OB)

W1–4L
35 MPH Or Greater 1
(OB)

W1–4R
35 MPH Or Greater
(OB)

W3–4
(OB)



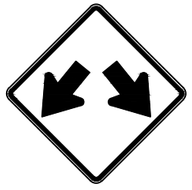
W4–2L
(OB)

W4–2R
(OB)

W6–3
(OB)

W9–3
(OB)

W11–1/W16–1
COMBO
(OB)



W12–1
(OB)

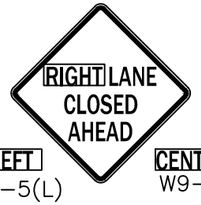
1 W13–1P(25)
(OB)

W20–1
(OB)

W20–2
(OB)

W20–3 1
(OB)

W20–4
(OB)



LEFT W20–5(L)
CENTER W9–3
W20–5(R)
(OB)

W21–1 1
(OB)

C24
(OB)

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–Add / Revise Signs	GDK	2/14

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DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

TYPICAL CONSTRUCTION SIGNS

JOB NO.
TEMPLATE NAME TC–04
DRAWN LB
DESIGNED
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET
TC–05
OF 50 SHEETS

Posted Speed	Formula	Buffer Space	Minimum Taper Lengths									Maximum *Cone Spacing		Sign Spacing ⚠1	LIDG (Ft) ⚠1
			10' Offset			11' Offset			12' Offset						
			L	½ L	1/3 L	L	½ L	1/3 L	L	½ L	1/3 L				
			Merge	*Shift*	*Shoulder*	*Merge*	*Shift*	*Shoulder*	*Merge*	*Shift*	*Shoulder*	*Long.*	*Taper & LIDG*		
25		155'	104'	52'	35'	115'	57'	38'	125'	63'	42'	25'	13'	100' To 200'	94'
30	$L = \frac{WS^2}{60}$	200'	150'	75'	50'	165'	83'	55'	180'	90'	60'	30'	15'	120' To 250'	113'
35		250'	204'	102'	68'	225'	112'	75'	245'	123'	82'	35'	18'	140' To 280'	131'
40		305'	267'	133'	89'	293'	147'	98'	320'	160'	107'	40'	20'	160' To 320'	150'
45	L = WS	360'	450'	225'	150'	495'	248'	165'	540'	270'	180'	45'	23'	360' To 540'	169'
50		425'	500'	250'	167'	550'	275'	183'	600'	300'	200'	50'	25'	400' To 600'	197'
55		495'	550'	275'	183'	605'	303'	202'	660'	330'	220'	50'	28'	440' To 660'	210'
60		570'	600'	300'	200'	660'	330'	220'	720'	360'	240'	50'	30'	480' To 720'	225'
65		645'	650'	325'	217'	715'	358'	238'	780'	390'	260'	50'	33'	520' To 700'	244'
70		730'	700'	350'	233'	770'	385'	257'	840'	420'	280'	50'	35'	560' To 820'	263'

⚠1

Both are based on:
1.) 85th % or if not available, then use
2.) Posted Speed Limit (PSL)

L = Taper Length
S = Speed
W = Width (Offset from path of travel)
LIDG = Lateral Intrusion Deterrence Gap (Ref: Ontario Traffic Manual -Book 7)

* Cones shown on templates are illustration purposes only. Exact number of cones required shall be based on cone spacing, taper lengths, actual field conditions, etc...

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–Delete Low/High Spd / Add LIDG / Revise Sign Spacing	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

DEVICE SPACING TABLE

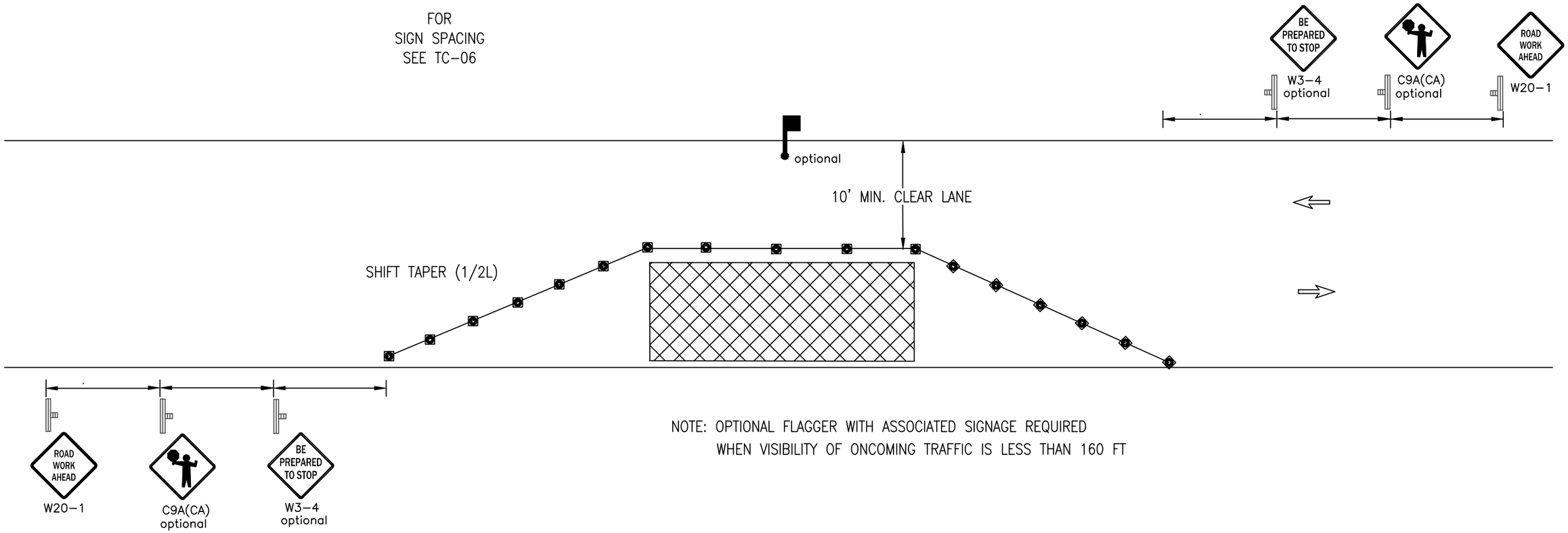
SIGN SPACING, TAPER LENGTH AND CONE SPACING TABLE

JOB NO.
TEMPLATE NAME TC–06
DRAWN LB
DESIGNED
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC–06 OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06



NOTE: OPTIONAL FLAGGER WITH ASSOCIATED SIGNAGE REQUIRED
WHEN VISIBILITY OF ONCOMING TRAFFIC IS LESS THAN 160 FT

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON
NAME _____
PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Revised Entire Sheet	GDK	2/14

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DEPARTMENT OF TRANSPORTATION

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M & O TYPICAL TRAFFIC CONTROL PLANS

SIDE OF ROAD - WORK AREA

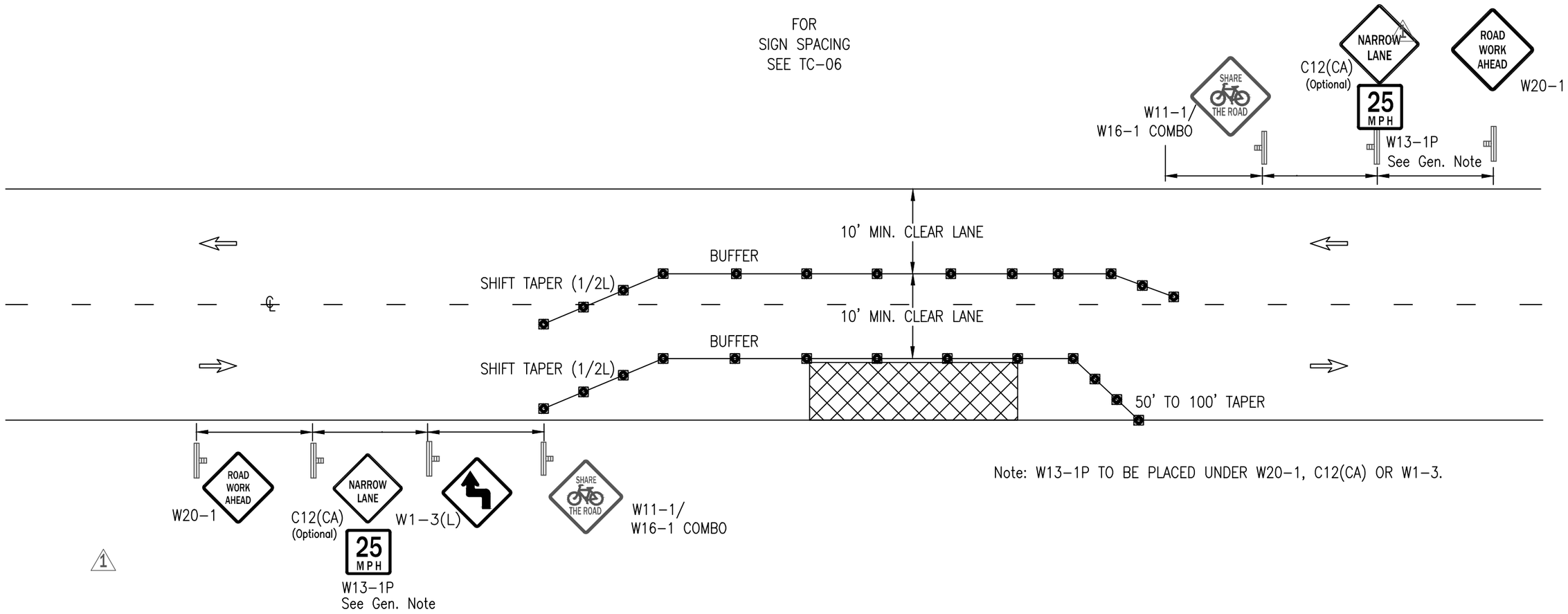
TWO LANE TRAFFIC CONTROL
WITHOUT CENTERLINE

JOB NO. _____
TEMPLATE NAME TC-07
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET
TC-07
OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06



Note: W13-1P TO BE PLACED UNDER W20-1, C12(CA) OR W1-3.

1

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

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COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

SIDE OF ROAD - WORK AREA

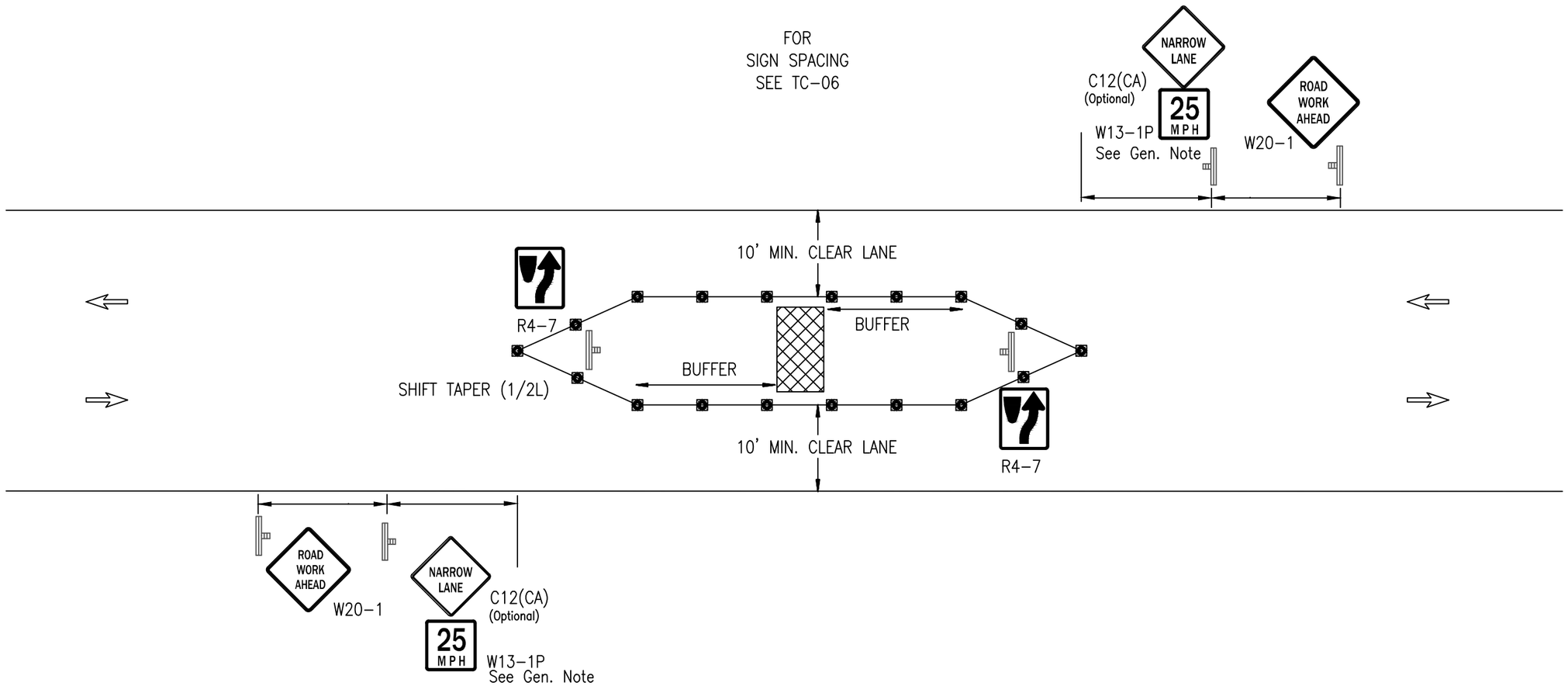
TWO LANE TRAFFIC CONTROL

WITH CENTERLINE – ONE LANE

JOB NO. _____
TEMPLATE NAME TC-08
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE
7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET
TC-08
OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

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COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

CENTER OF ROAD - WORK AREA

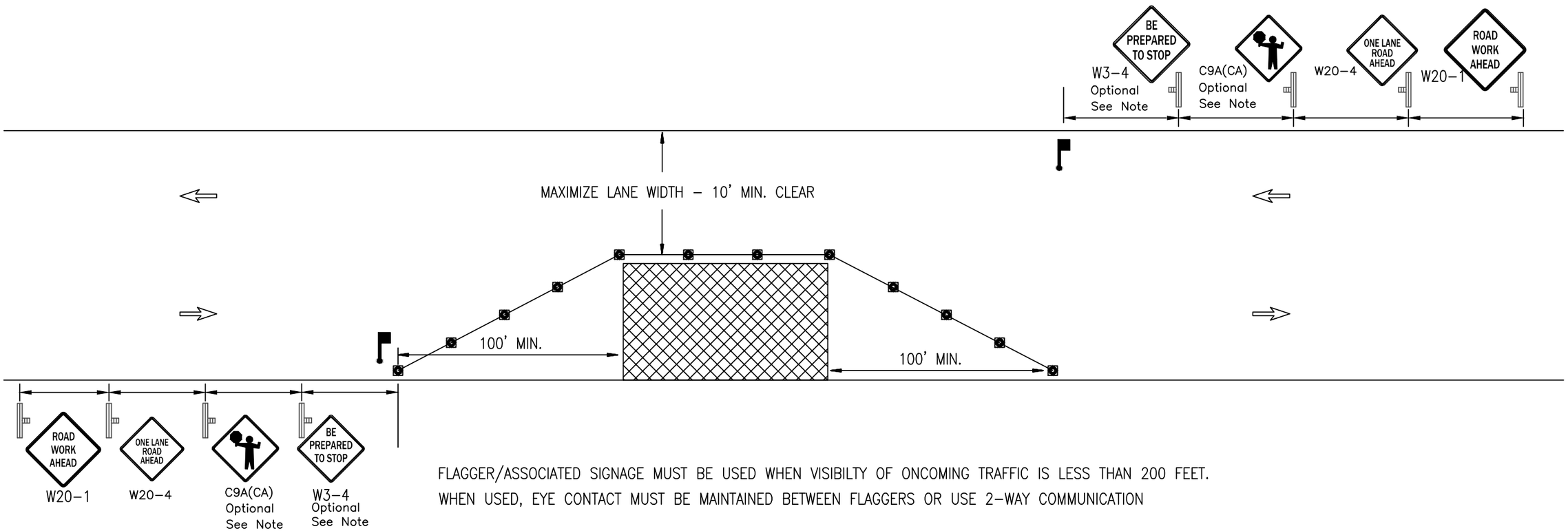
TWO LANE TRAFFIC CONTROL WITHOUT CENTERLINE

JOB NO. _____
TEMPLATE NAME TC-09
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-09 OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06



FLAGGER/ASSOCIATED SIGNAGE MUST BE USED WHEN VISIBILTY OF ONCOMING TRAFFIC IS LESS THAN 200 FEET.
WHEN USED, EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

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- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON
NAME _____
PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

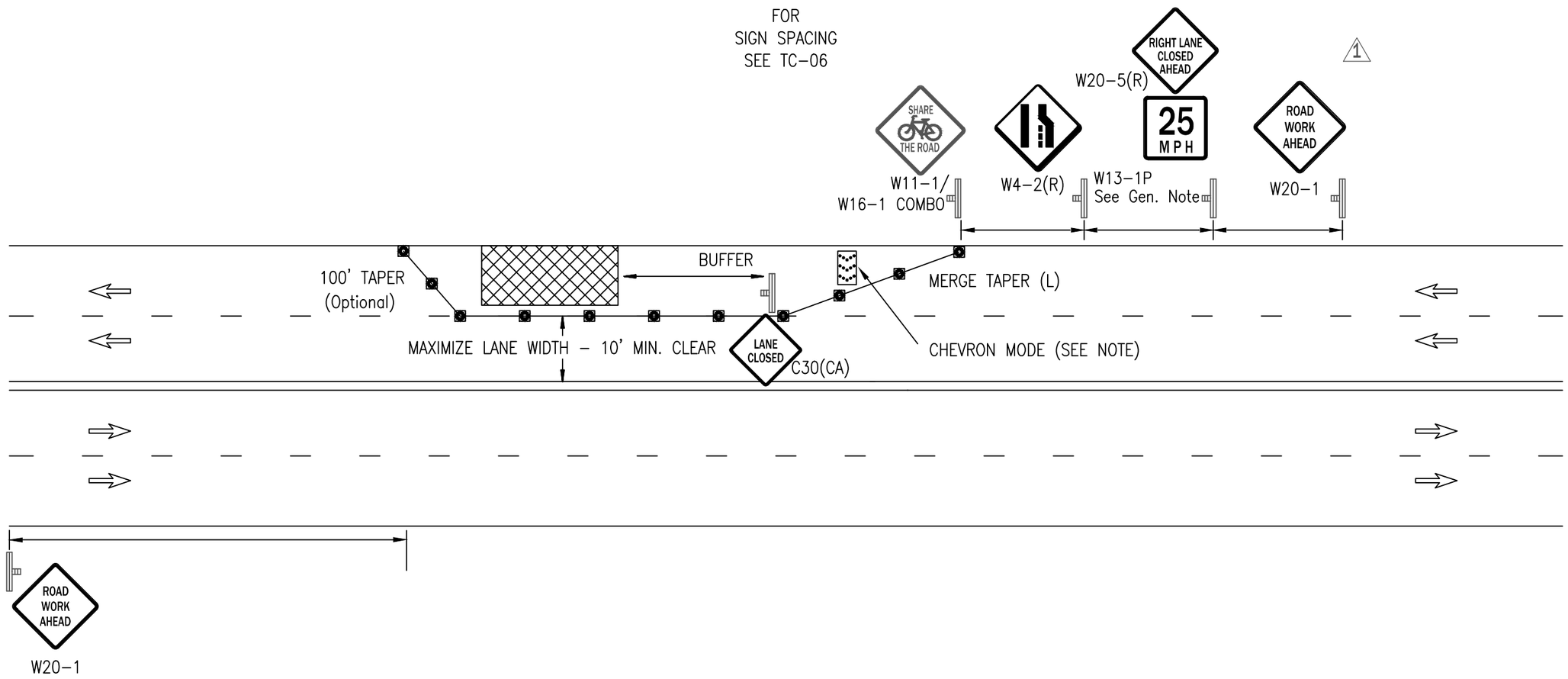
SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

SIDE OF ROAD - WORK AREA
TWO LANE TRAFFIC CONTROL WITH
FLAGGERS – ONE LANE

JOB NO. _____
TEMPLATE NAME TC-10
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE
7/1/2010

SCALE
HOR: N/A
VER: N/A
SHEET
TC-10
OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

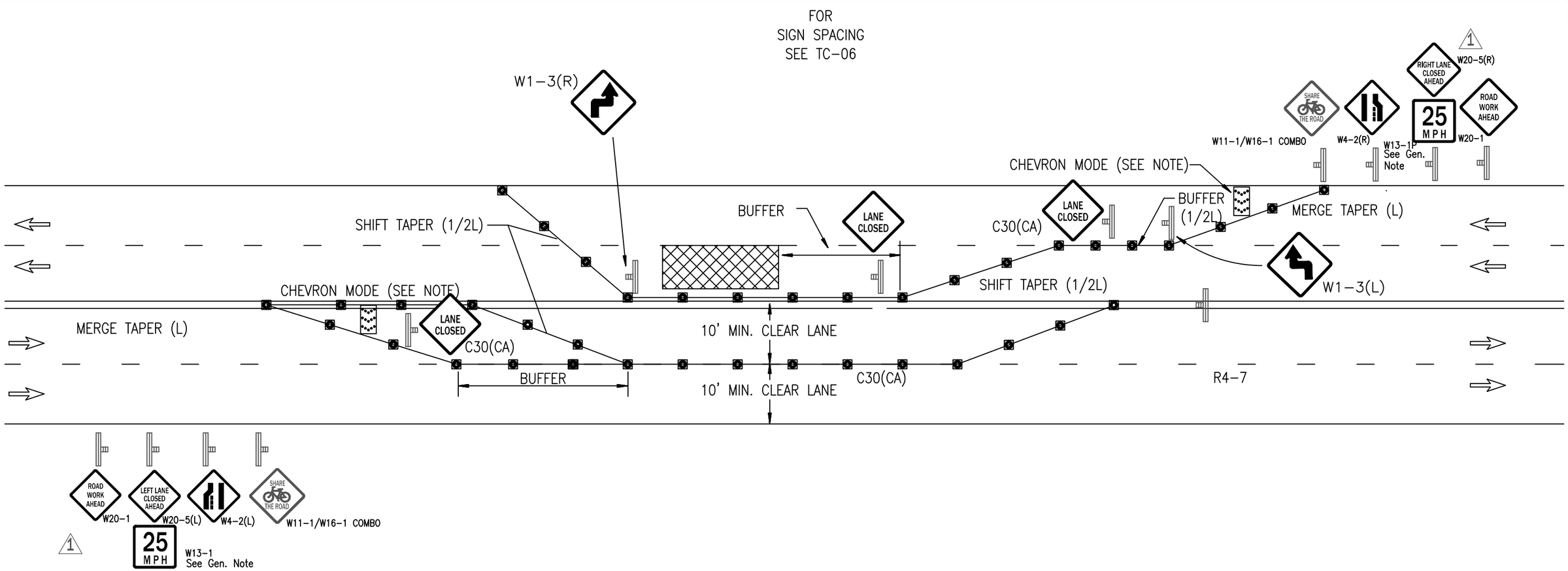
SIDE OF ROAD - WORK AREA

RIGHT LANE TRAFFIC CONTROL
WITH CENTERLINE – TWO LANES

JOB NO. _____
TEMPLATE NAME TC-11
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-11 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

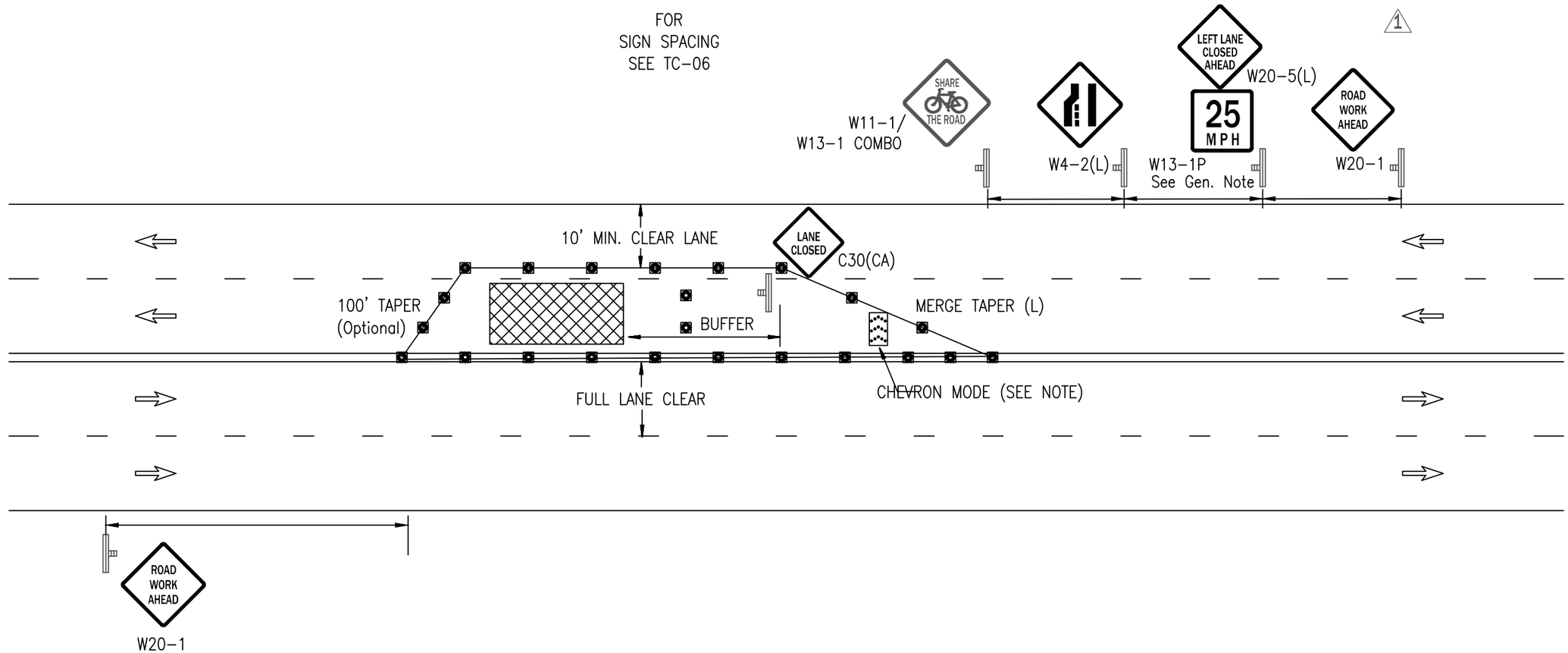
INTERIOR OF ROAD - WORK AREA

MULTILANE TRAFFIC CONTROL WITH CENTERLINE – HALF ROAD CLOSURE – TWO LANES

JOB NO. _____
TEMPLATE NAME TC-12
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-12 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

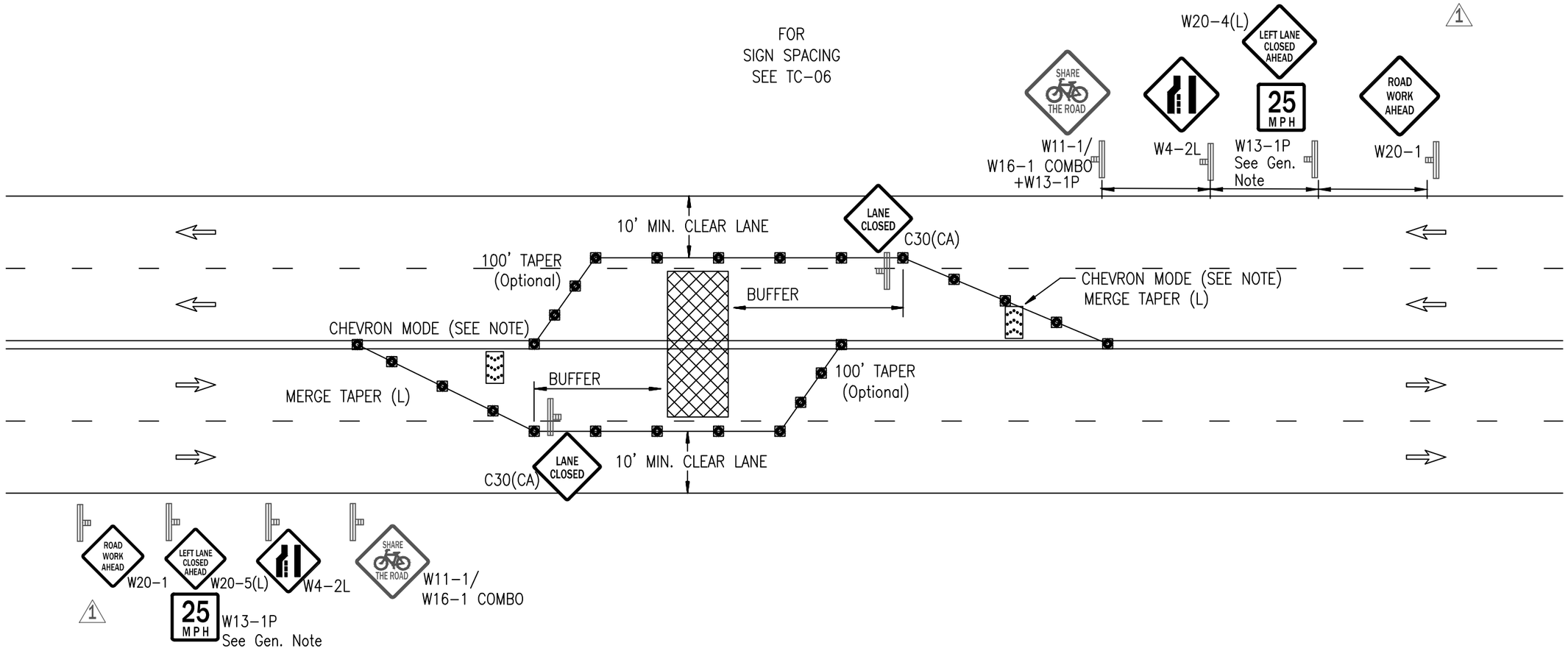
INTERIOR OF ROAD - WORK AREA

LEFT LANE TRAFFIC CONTROL WITH
CENTERLINE – TWO LANES

JOB NO. _____
TEMPLATE NAME TC-13
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-13 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

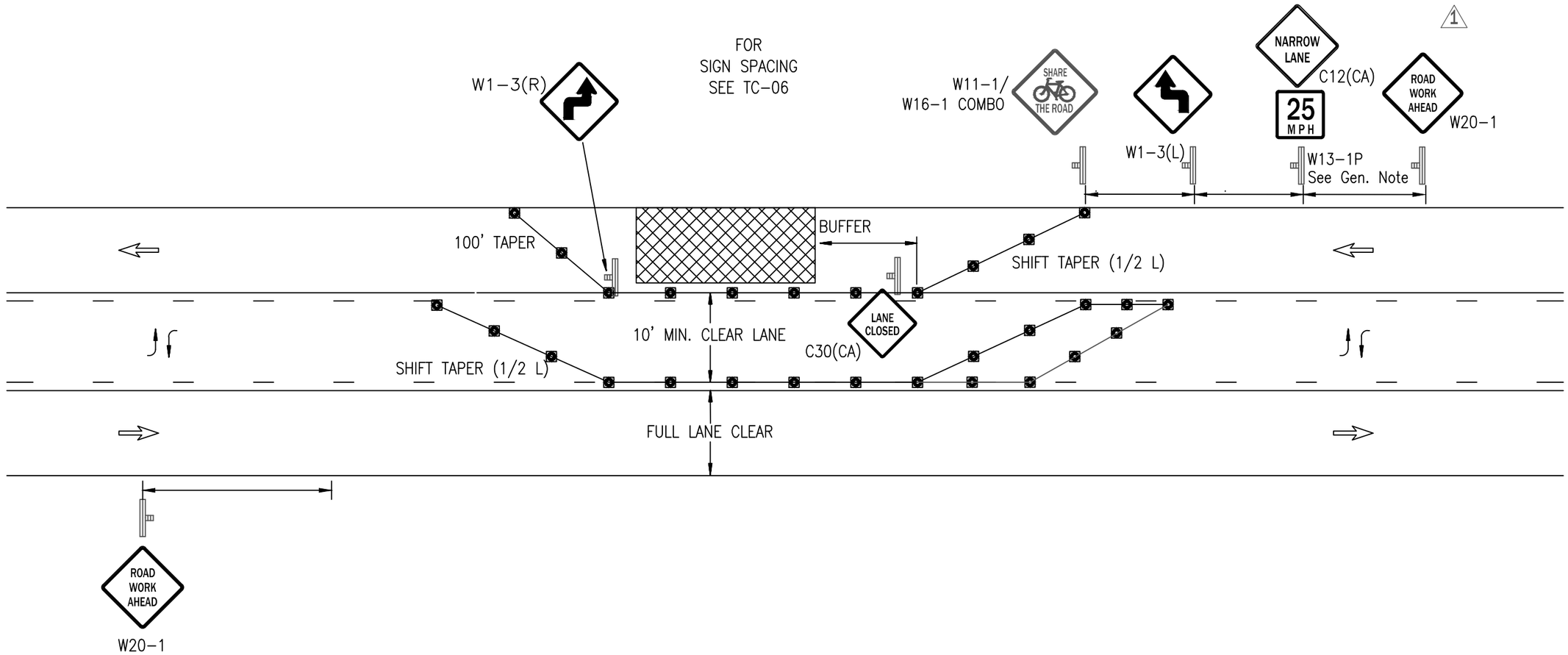
CENTER OF ROAD - WORK AREA

MULTILANE TRAFFIC CONTROL WITH CENTERLINE –
LEFT LANE CLOSURE – TWO LANES

JOB NO. _____
TEMPLATE NAME TC-14
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-14 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

SIDE OF ROAD - WORK AREA

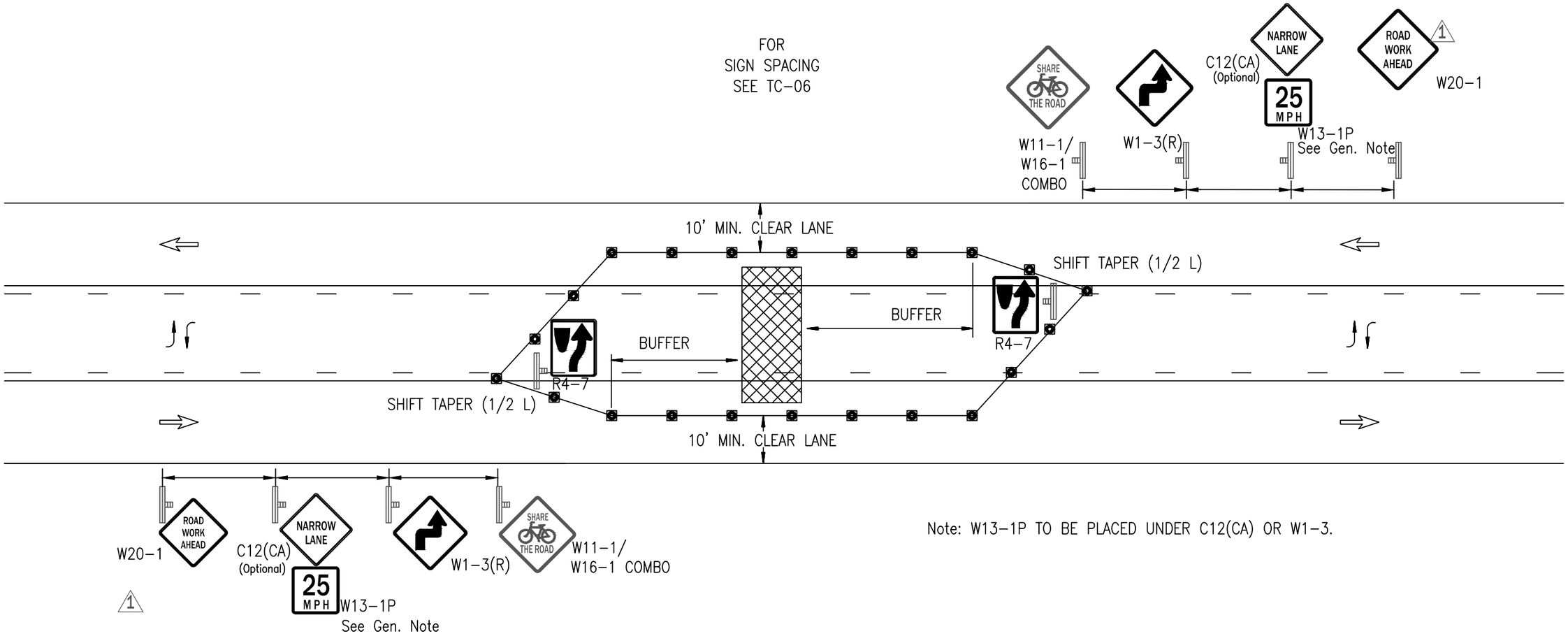
MULTILANE TRAFFIC CONTROL WITH TWO-WAY LEFT TURN LANE – RIGHT LANE CLOSURE – ONE LANE

JOB NO. _____
TEMPLATE NAME TC-15
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-15 OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06



Note: W13-1P TO BE PLACED UNDER C12(CA) OR W1-3.

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.
- This plan DOES NOT apply to signalized or multi-way stop intersections.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

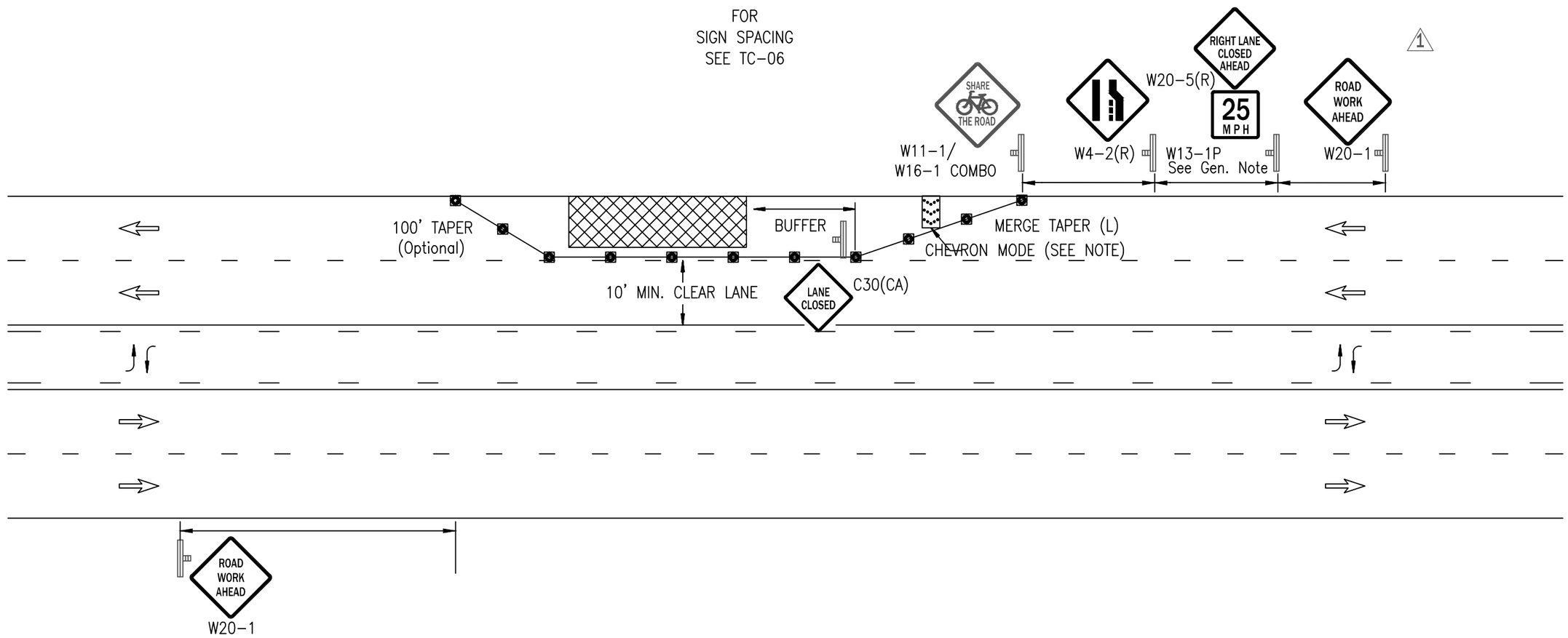
CENTER OF ROAD - WORK AREA

MULTILANE TRAFFIC CONTROL WITH TWO-WAY
LEFT TURN LANE – ONE LANE

JOB NO. _____
TEMPLATE NAME TC-16
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET
TC-16
OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

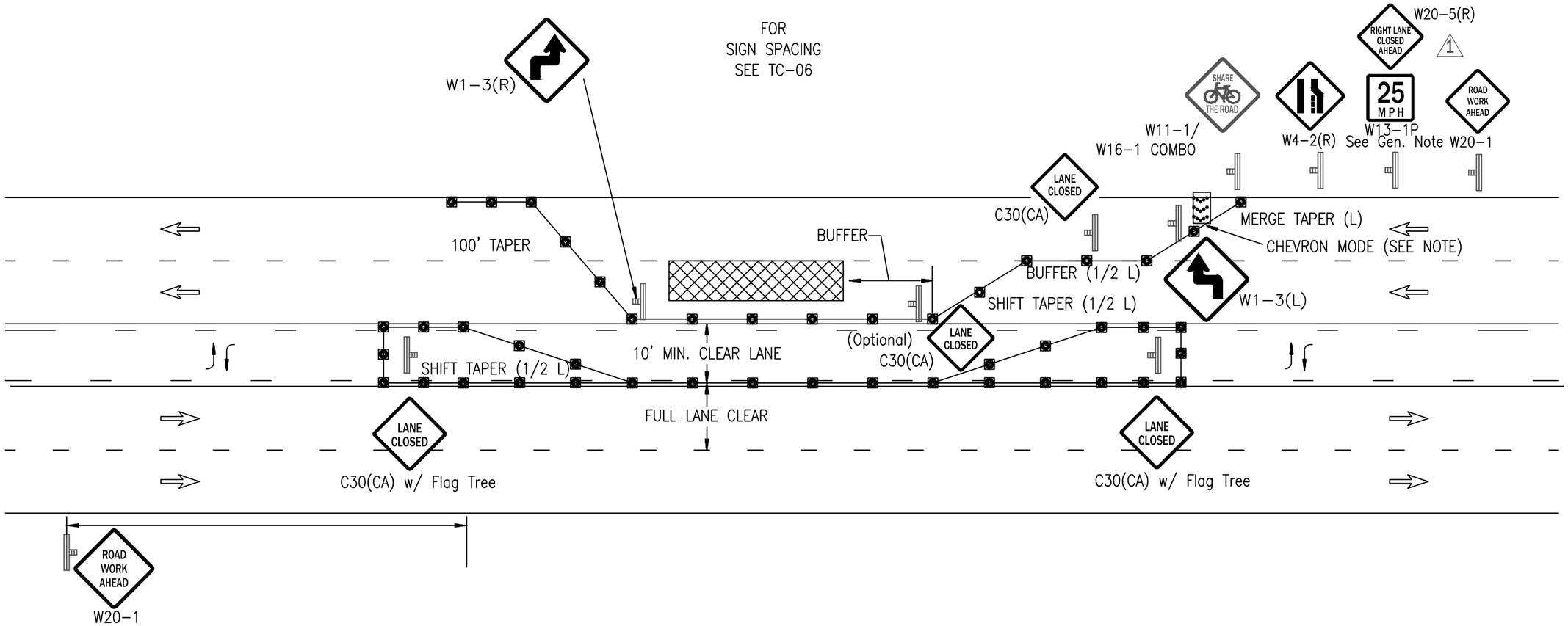
SIDE OF ROAD - WORK AREA

MULTILANE TRAFFIC CONTROL WITH TWO-WAY LEFT TURN LANE - RIGHT LANE CLOSURE - TWO LANES

JOB NO. _____
TEMPLATE NAME TC-17
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-17 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

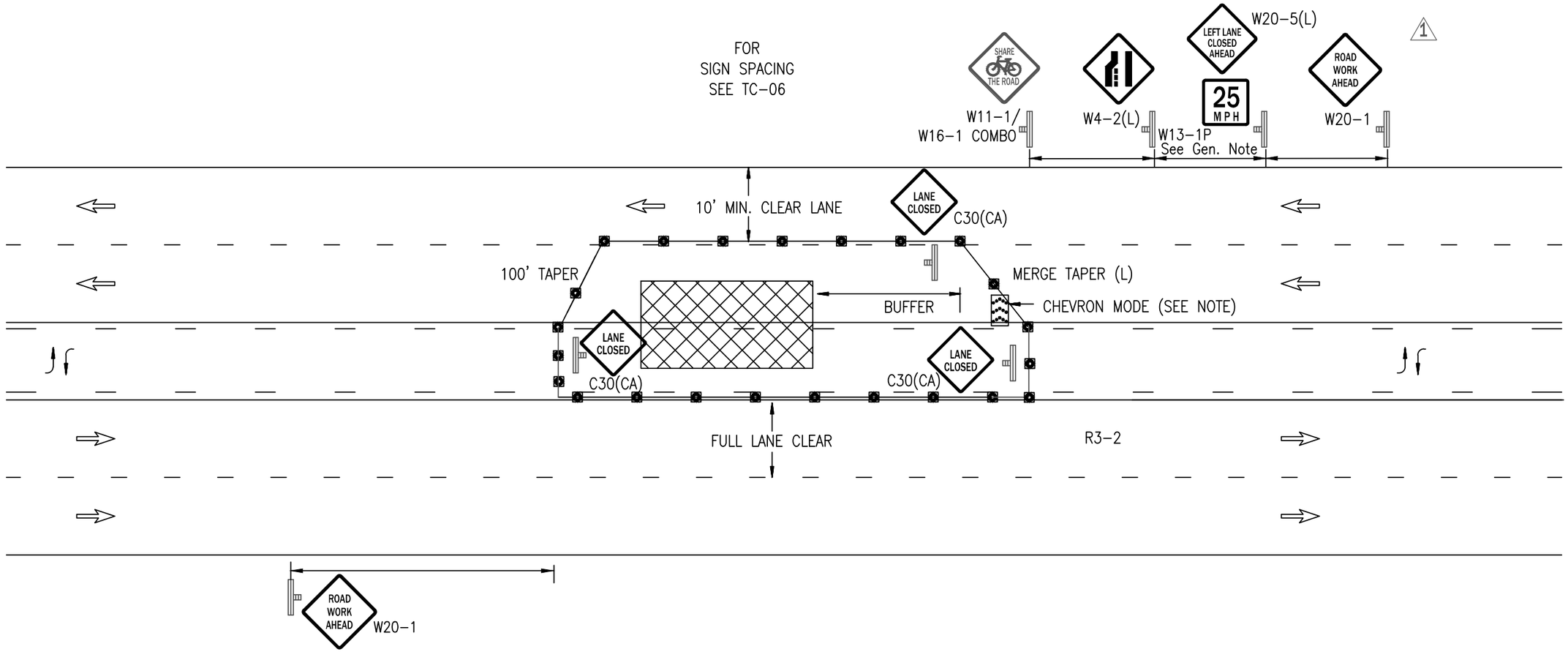
INTERIOR OF ROAD - WORK AREA

MULTILANE TRAFFIC CONTROL WITH TWO-WAY LEFT TURN LANE – DUAL RIGHT LANE CLOSURE – TWO LANES

JOB NO. _____
TEMPLATE NAME TC-18
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-18 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

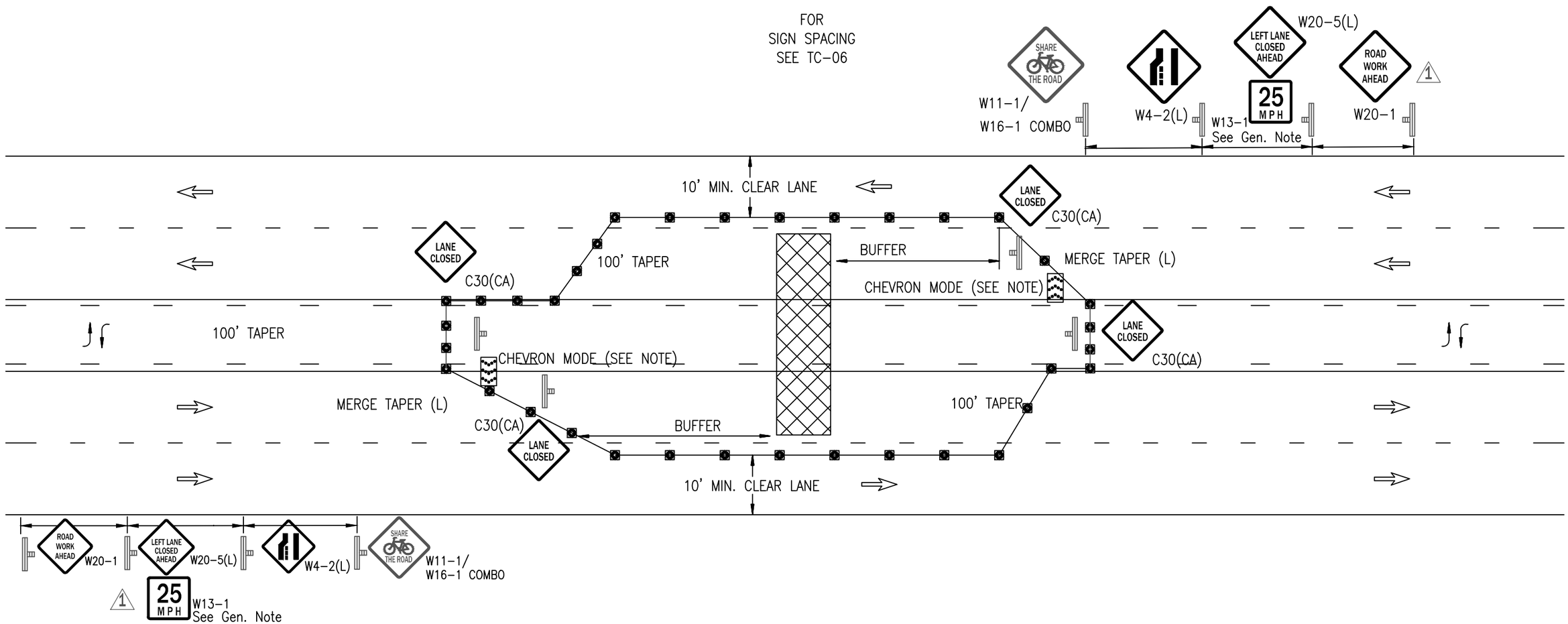
CENTER OF ROAD - WORK AREA

MULTILANE TRAFFIC CONTROL WITH TWO-WAY LEFT TURN LANE – LEFT LANE CLOSURE – TWO LANES

JOB NO. _____
TEMPLATE NAME TC-20
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-20 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

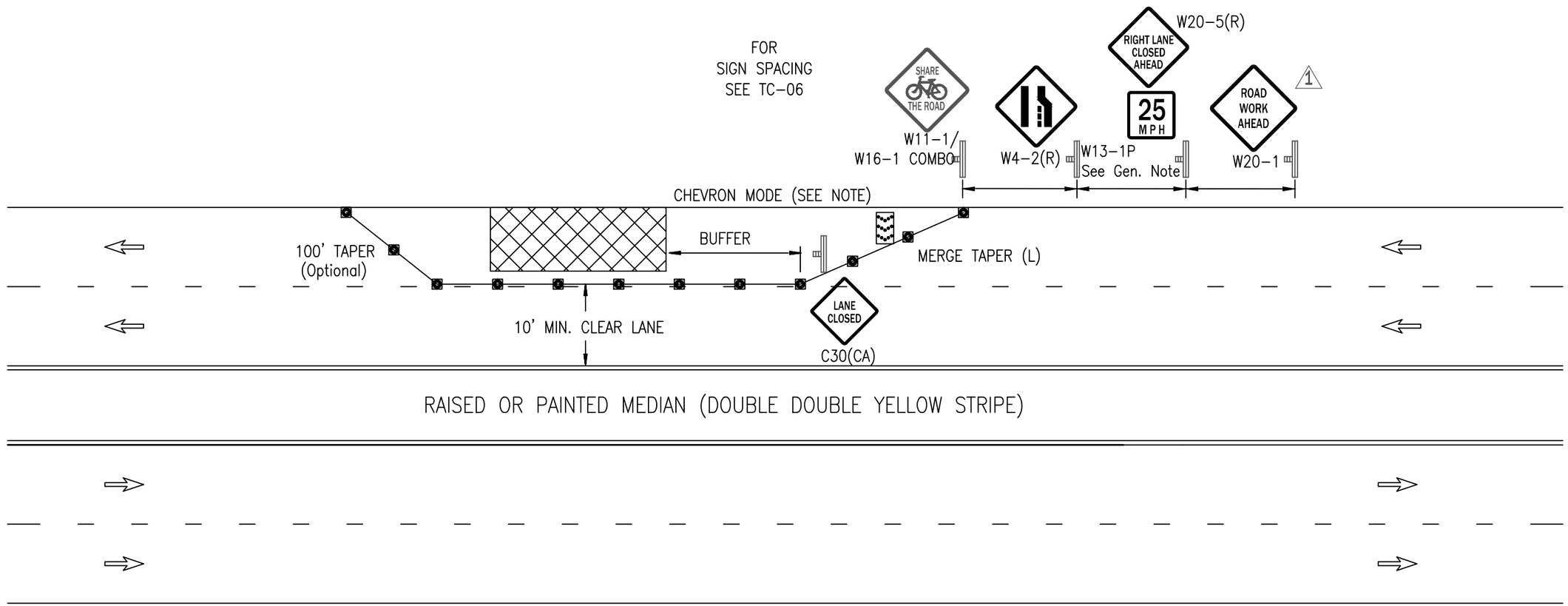
CENTER OF ROAD - WORK AREA

MULTILANE TRAFFIC CONTROL WITH TWO-WAY
LANE – LEFT LANE CLOSURE – TWO LANES

JOB NO. _____
TEMPLATE NAME TC-21
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-21 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.
- This plan DOES NOT apply to signalized or multi-way stop intersections.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

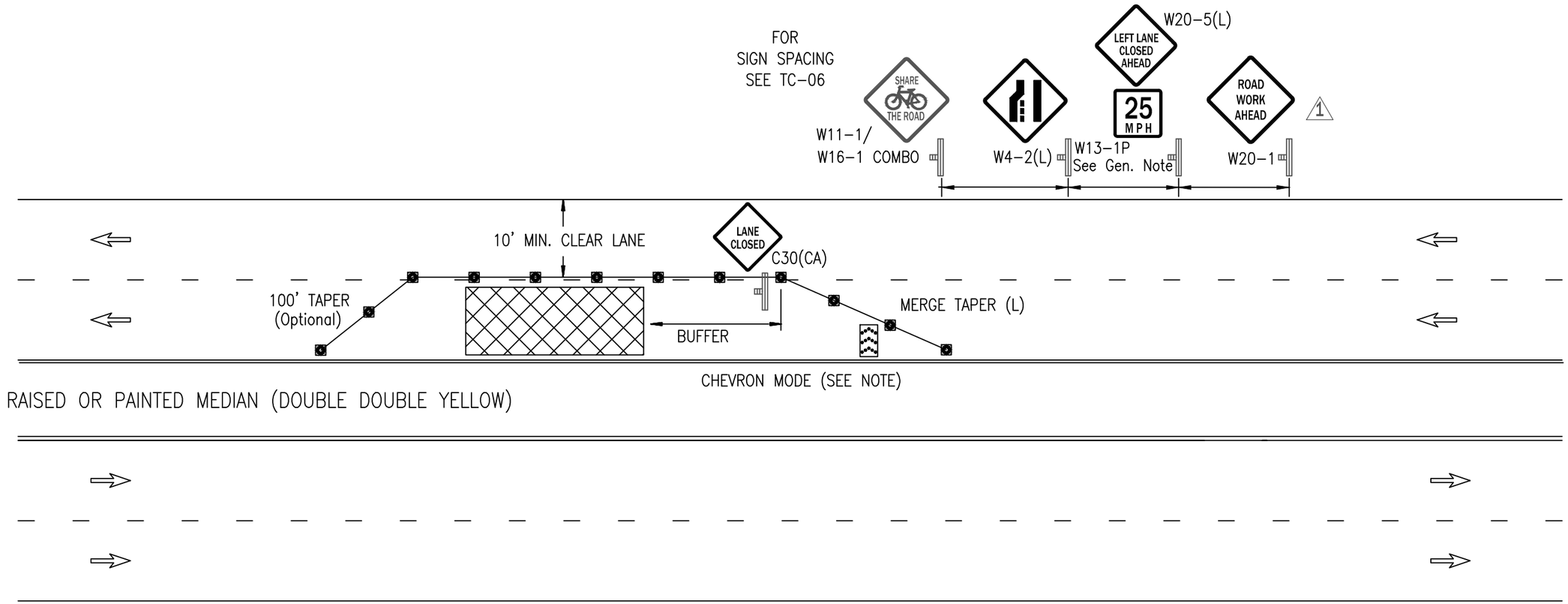
SIDE OF ROAD - WORK AREA

MULTILANE TRAFFIC CONTROL WITH RAISED MEDIAN –
RIGHT LANE CLOSURE – TWO LANES

JOB NO. _____
TEMPLATE NAME TC-22
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-22 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

INTERIOR OF ROAD - WORK AREA

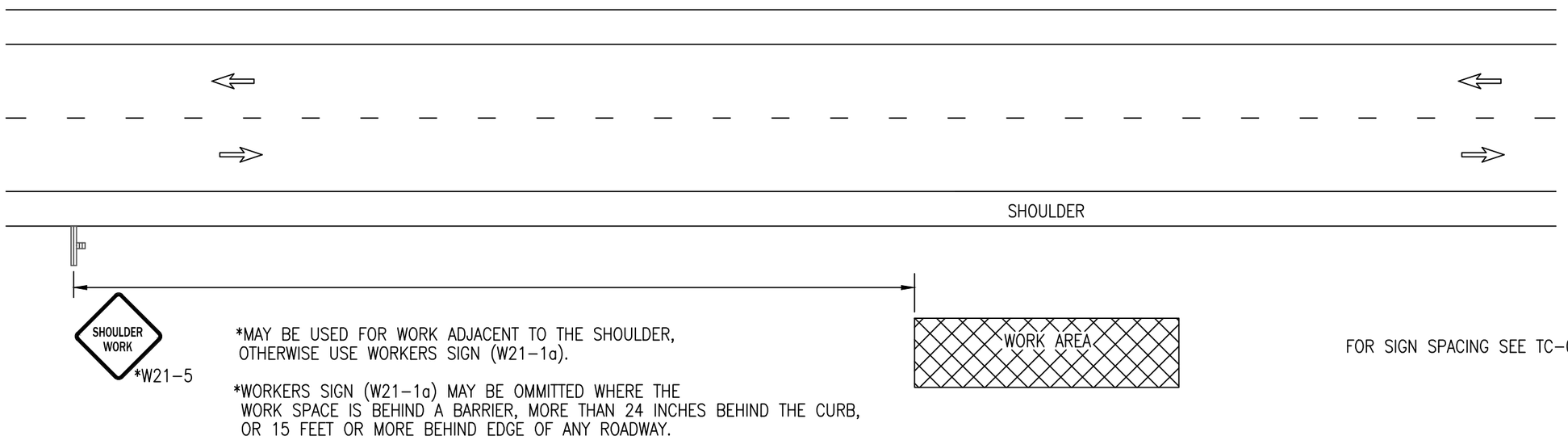
MULTILANE TRAFFIC CONTROL WITH RAISED MEDIAN

LEFT LANE TRAFFIC CONTROL – TWO LANE

JOB NO. _____
TEMPLATE NAME TC-23
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-23 OF 50 SHEETS



*MAY BE USED FOR WORK ADJACENT TO THE SHOULDER, OTHERWISE USE WORKERS SIGN (W21-1a).

*WORKERS SIGN (W21-1a) MAY BE OMMITTED WHERE THE WORK SPACE IS BEHIND A BARRIER, MORE THAN 24 INCHES BEHIND THE CURB, OR 15 FEET OR MORE BEHIND EDGE OF ANY ROADWAY.

FOR SIGN SPACING SEE TC-06

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Revise General Note	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

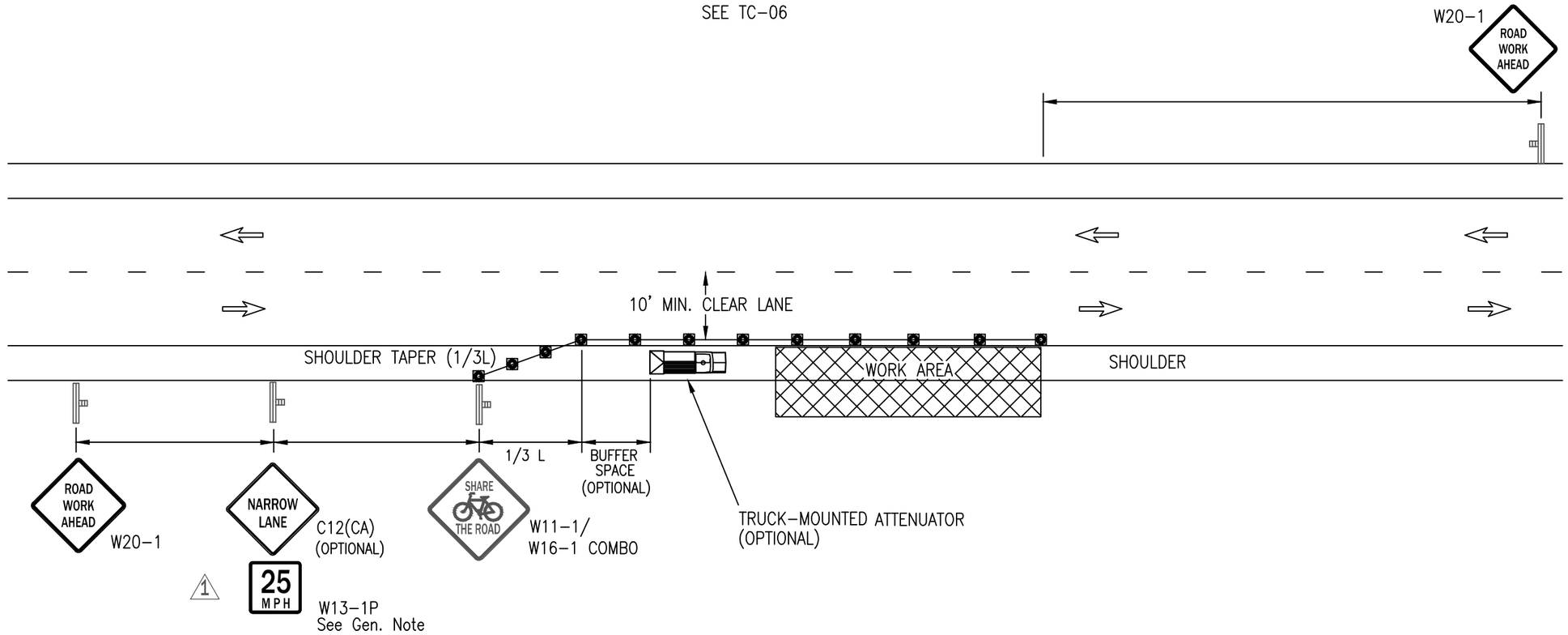
WORK BEYOND THE SHOULDER

JOB NO. _____
TEMPLATE NAME TC-25
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-25 OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Revise Gen Note	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

SHOULDER WORK
WITH MINOR ENCROACHMENT

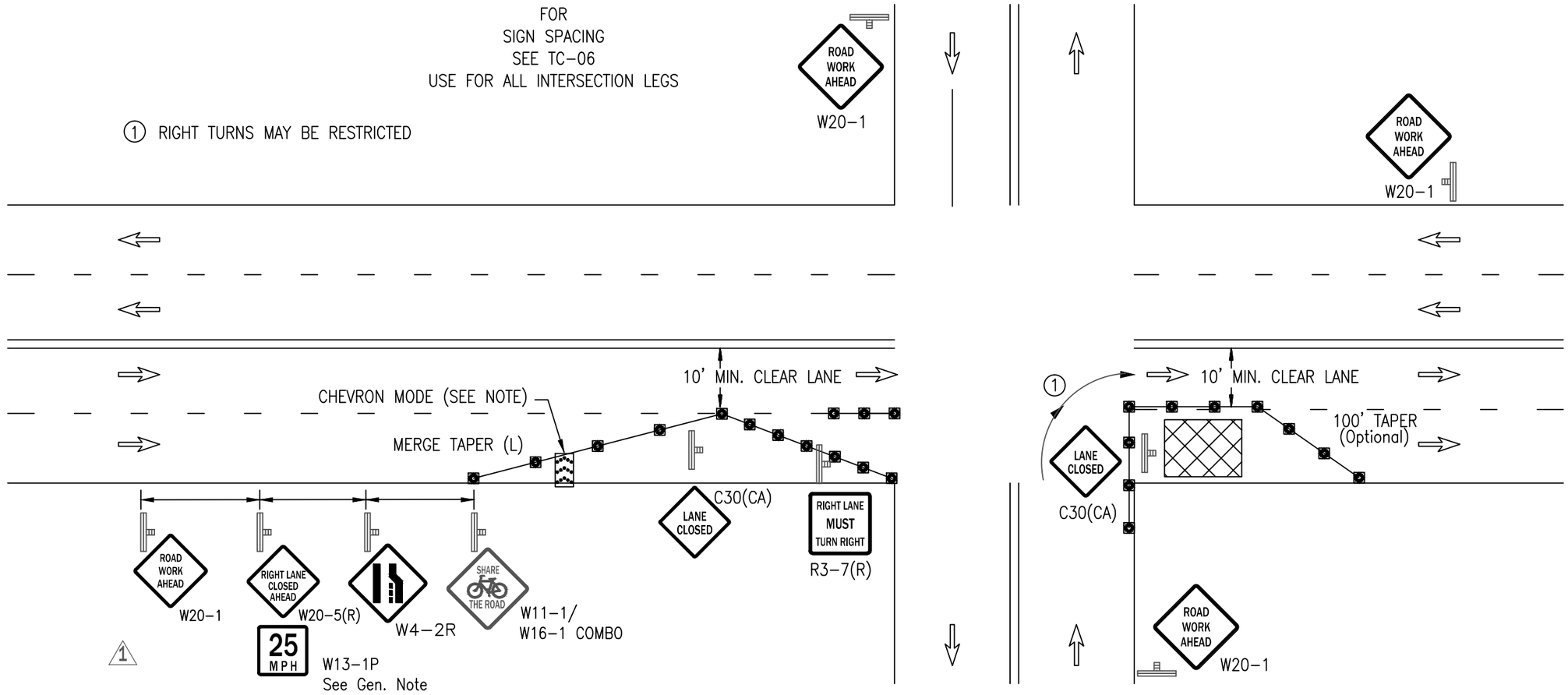
JOB NO. _____
TEMPLATE NAME TC-26
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET
TC-26
OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06
USE FOR ALL INTERSECTION LEGS

① RIGHT TURNS MAY BE RESTRICTED



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES ⚠1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

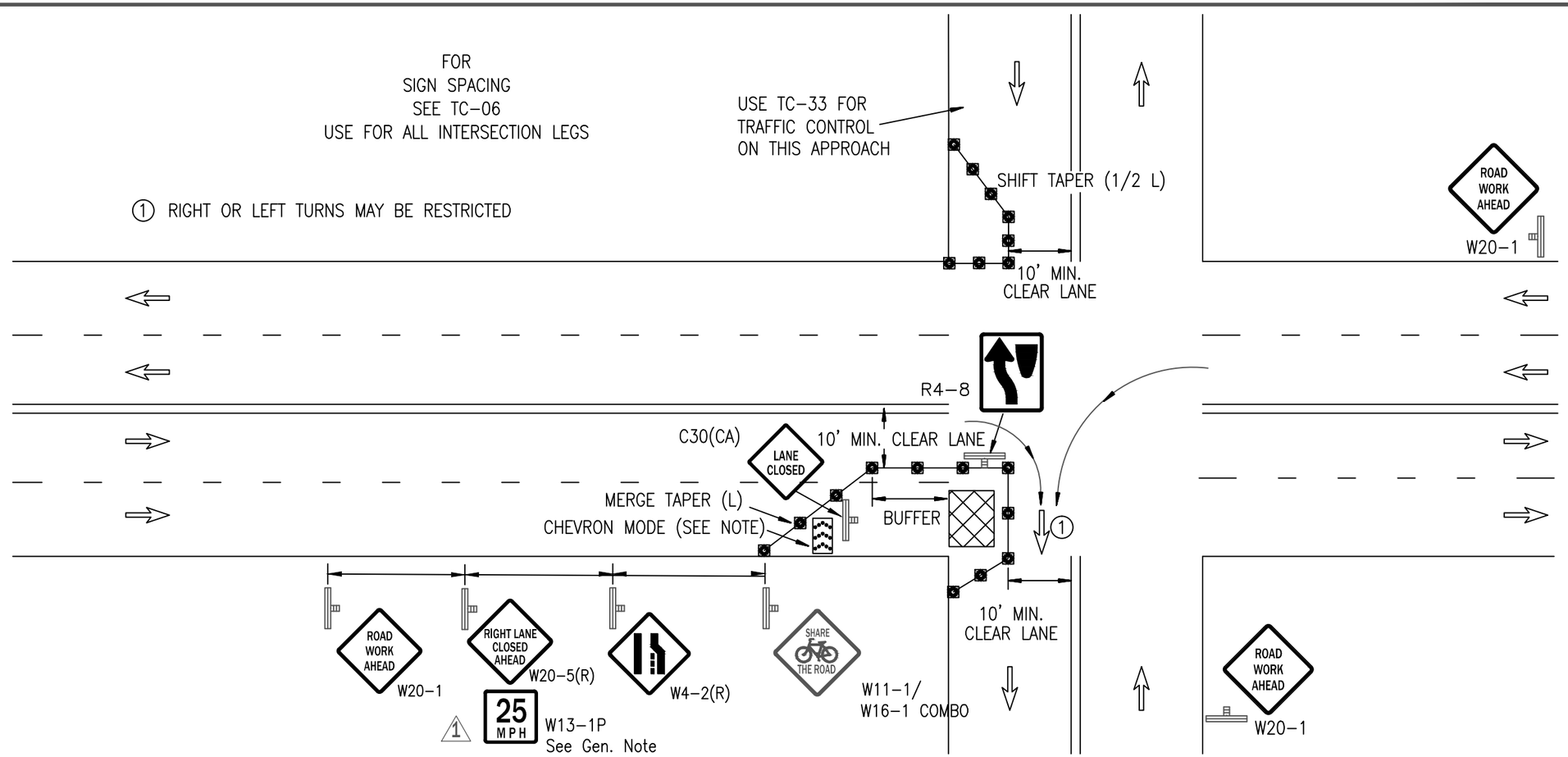
SIDE OF ROAD - WORK AREA

RIGHT LANE CLOSURE ON FAR SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-28
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-28 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
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- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

INTERSECTION - WORK AREA

CLOSURE AT SIDE OF INTERSECTION

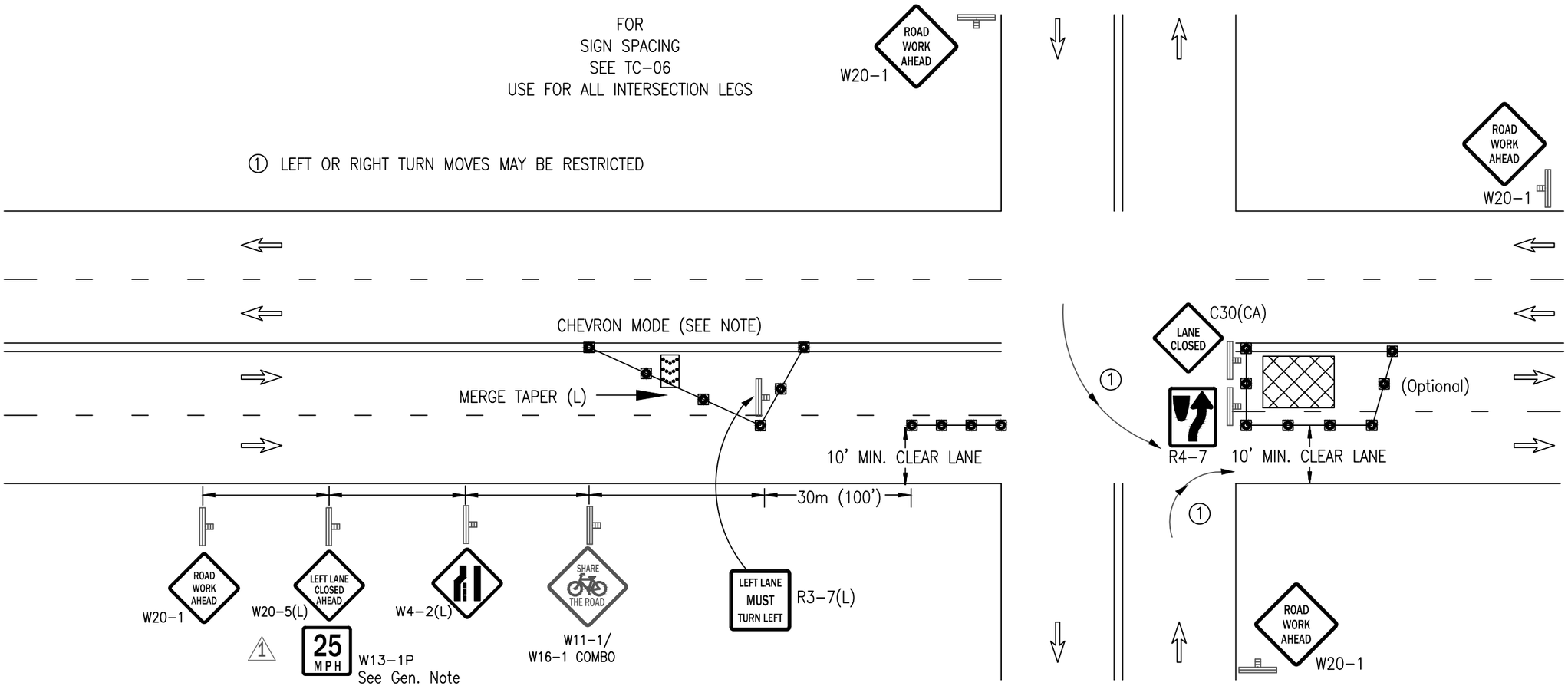
JOB NO. _____
TEMPLATE NAME TC-29
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-29 OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06
USE FOR ALL INTERSECTION LEGS

① LEFT OR RIGHT TURN MOVES MAY BE RESTRICTED



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES ①

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

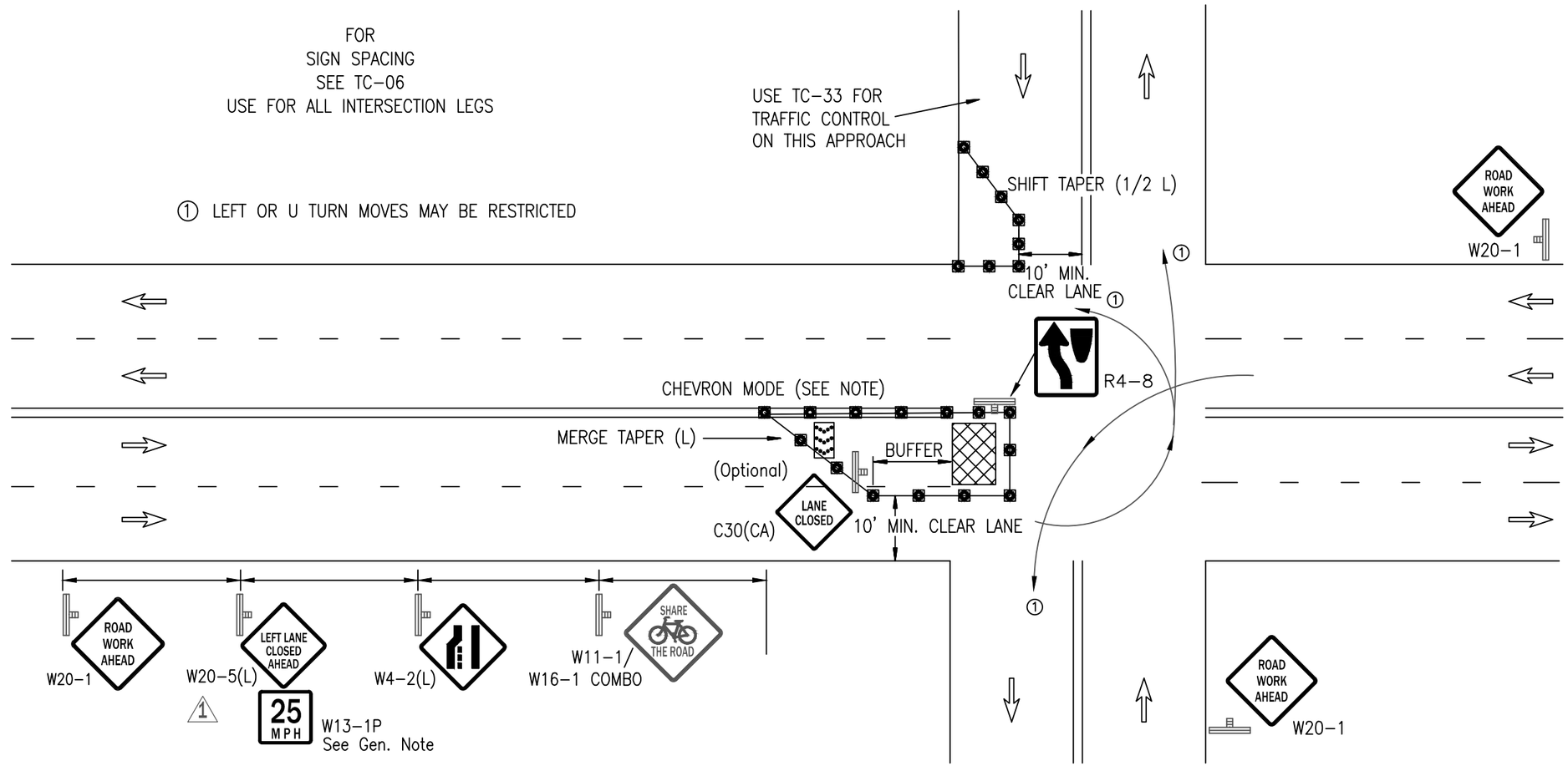
INTERIOR OF ROAD - WORK AREA

LEFT LANE CLOSURE ON FAR SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-30
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-30 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES ⚠1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

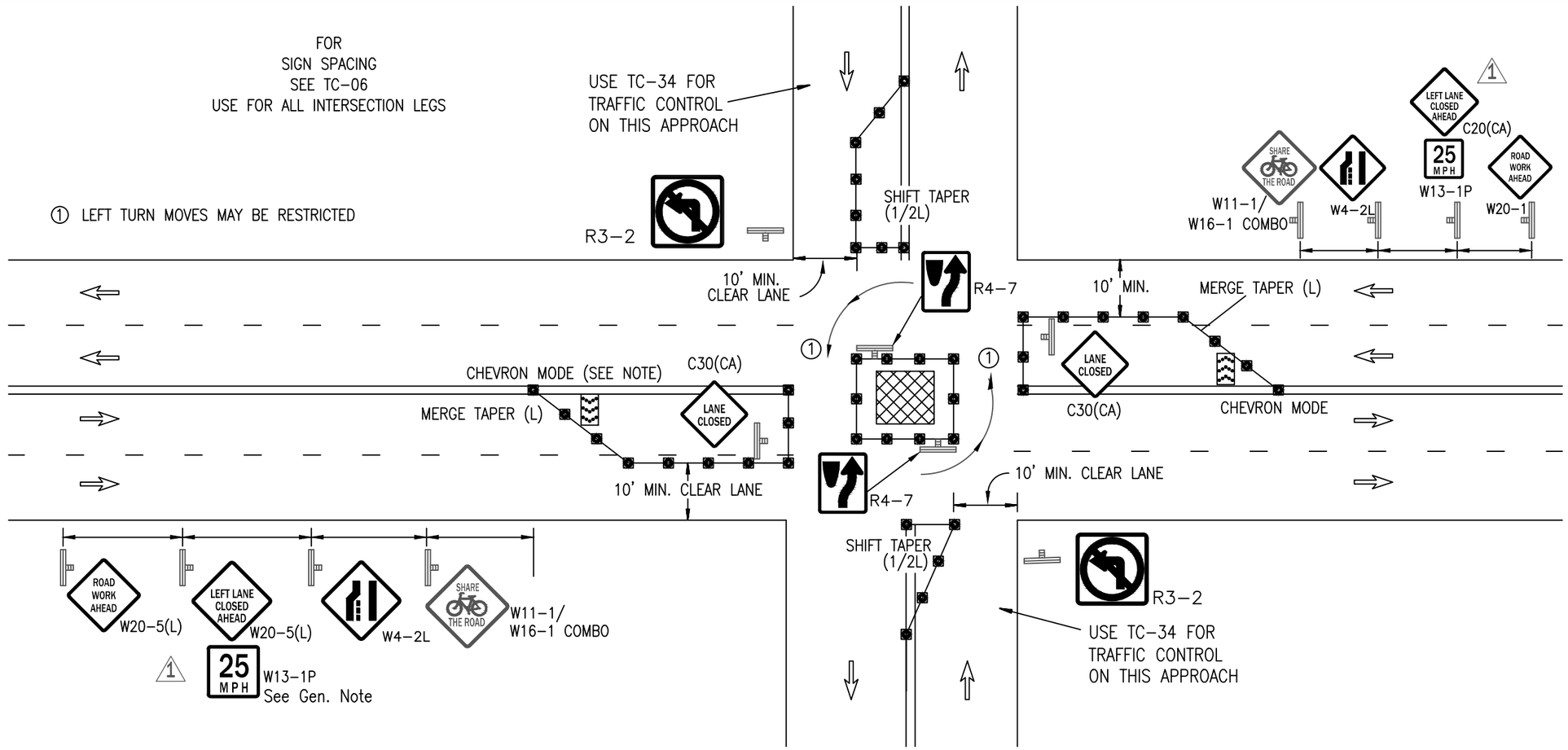
INTERSECTION - WORK AREA

LEFT LANE CLOSURE AT INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-31
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-31 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES ⚠1

- –See TC–05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- –See TC–06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
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- –See Sheet TC–45 for pedestrian mitigation.
- –Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- –The W13–1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC–06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

CENTER OF ROAD - WORK AREA

CLOSURE IN CENTER OF INTERSECTION

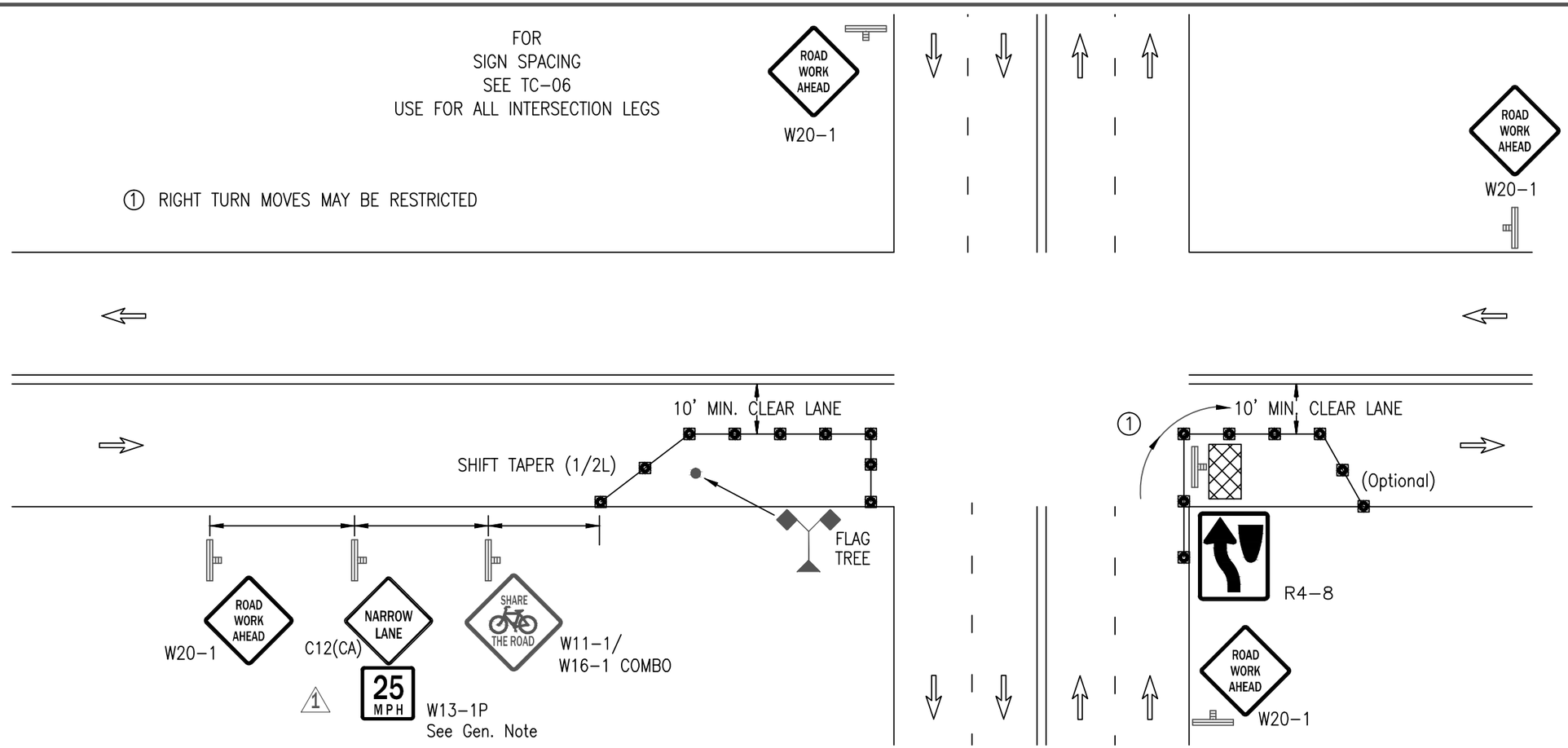
JOB NO. _____
TEMPLATE NAME TC–32
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC–32 OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06
USE FOR ALL INTERSECTION LEGS

① RIGHT TURN MOVES MAY BE RESTRICTED



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
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COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

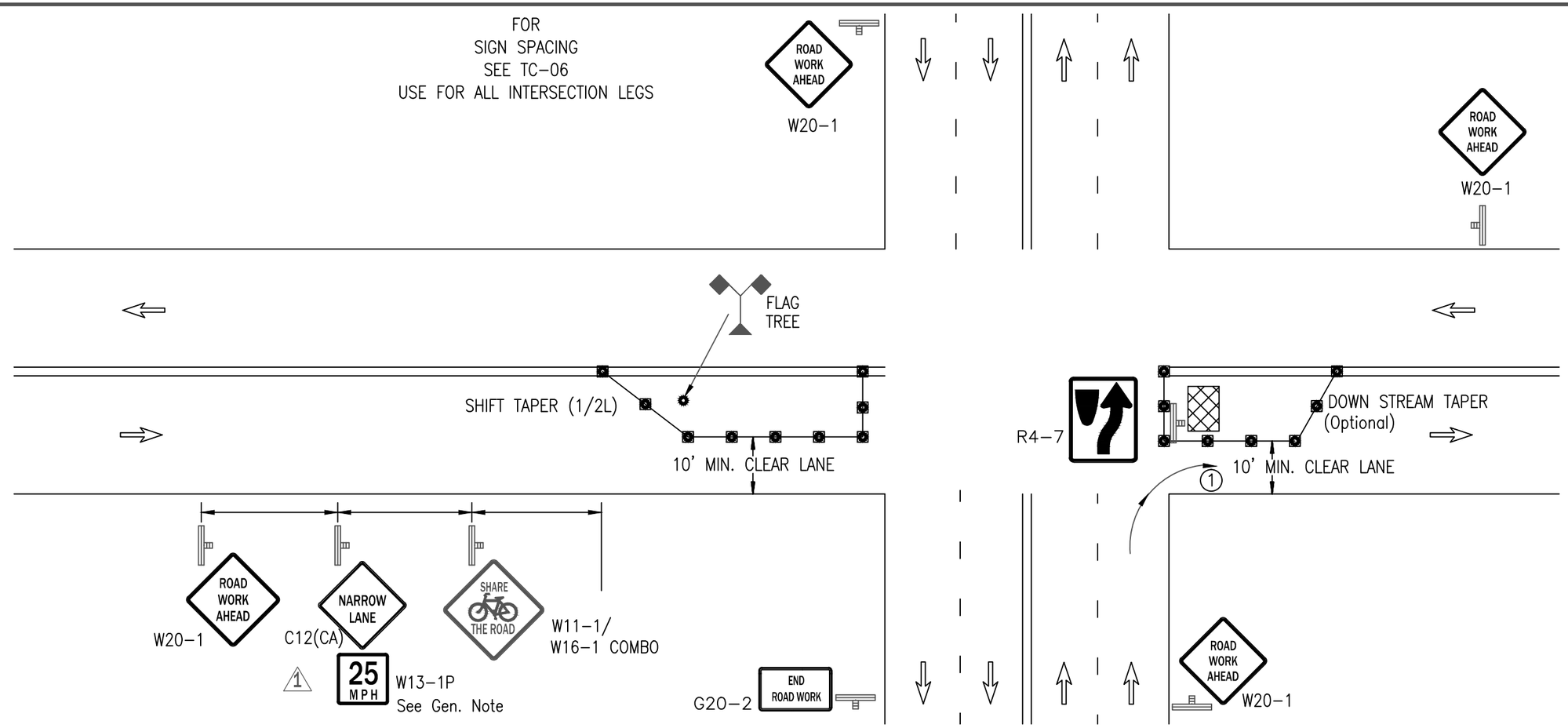
M & O TYPICAL TRAFFIC CONTROL PLANS

SIDE OF ROAD - WORK AREA
CLOSURE AT FAR SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-33
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-33 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
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COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

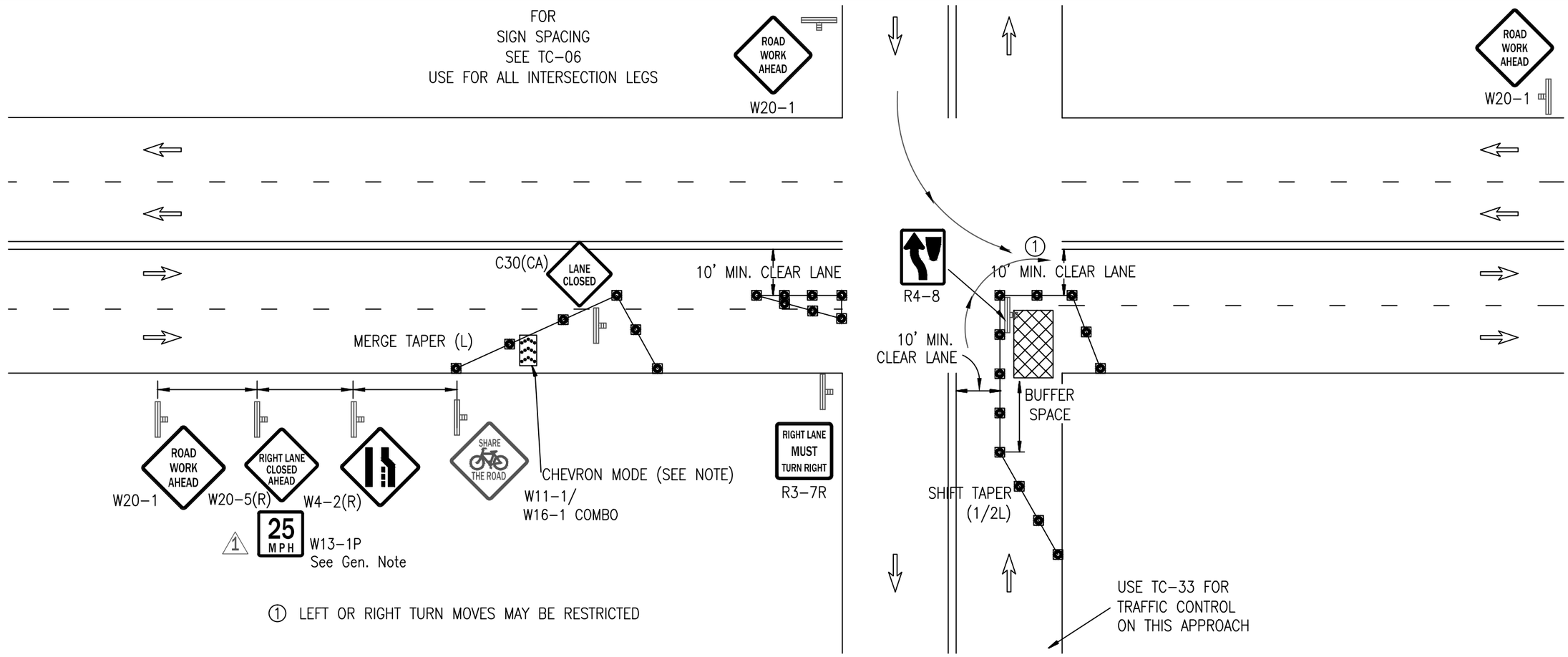
INTERIOR OF ROAD - WORK AREA

CLOSURE AT FAR SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-34
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-34 OF 50 SHEETS



1 LEFT OR RIGHT TURN MOVES MAY BE RESTRICTED

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
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COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

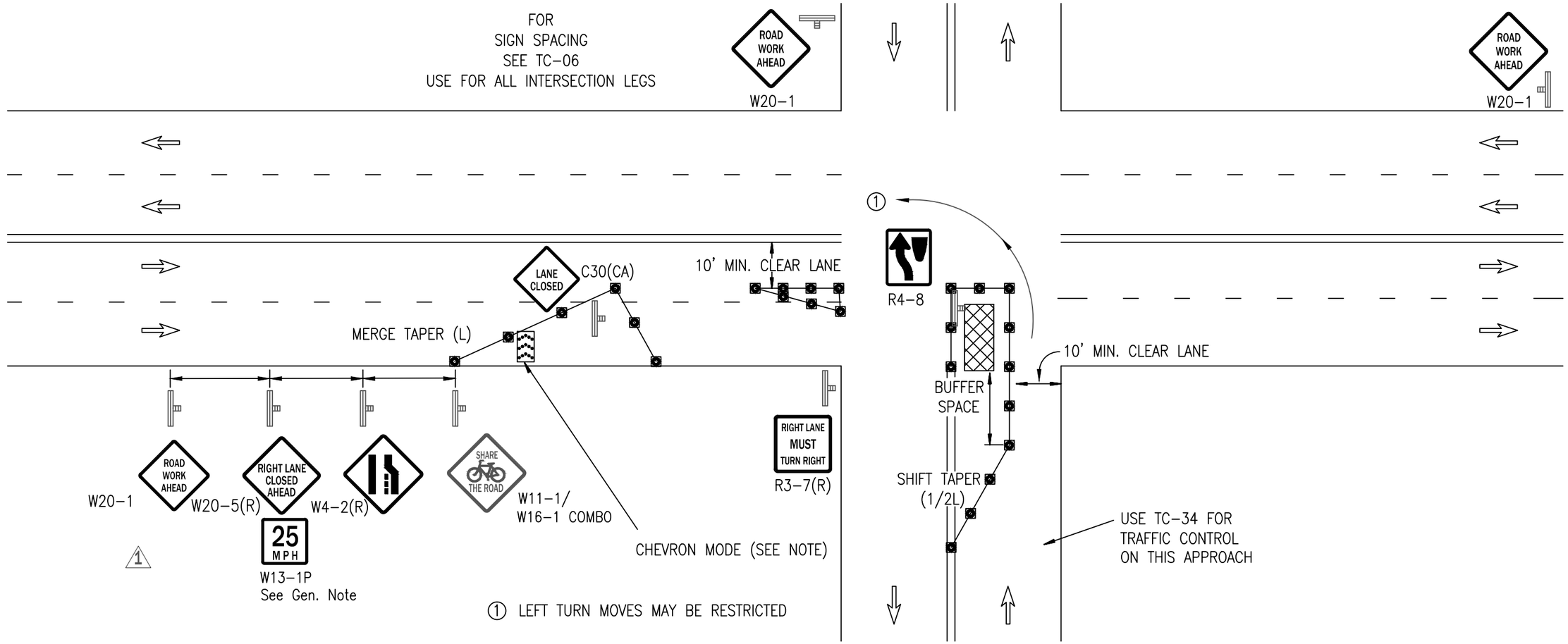
SIDE OF ROAD - WORK AREA

RIGHT LANE CLOSURE AT SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-35
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-35 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
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COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

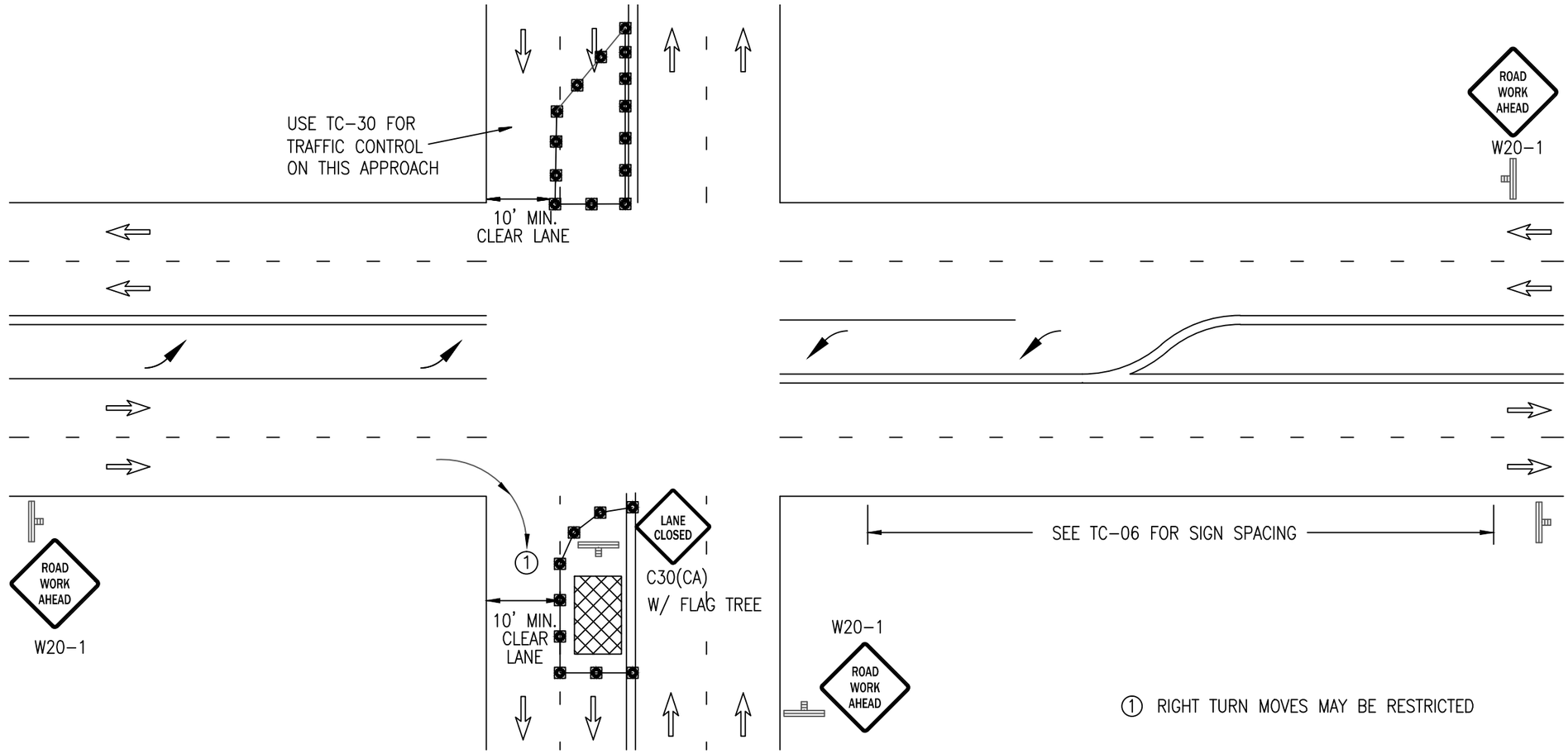
INTERSECTION - WORK AREA

RIGHT LANE CLOSURE AT SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-36
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-36 OF 50 SHEETS



1 RIGHT TURN MOVES MAY BE RESTRICTED

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

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COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

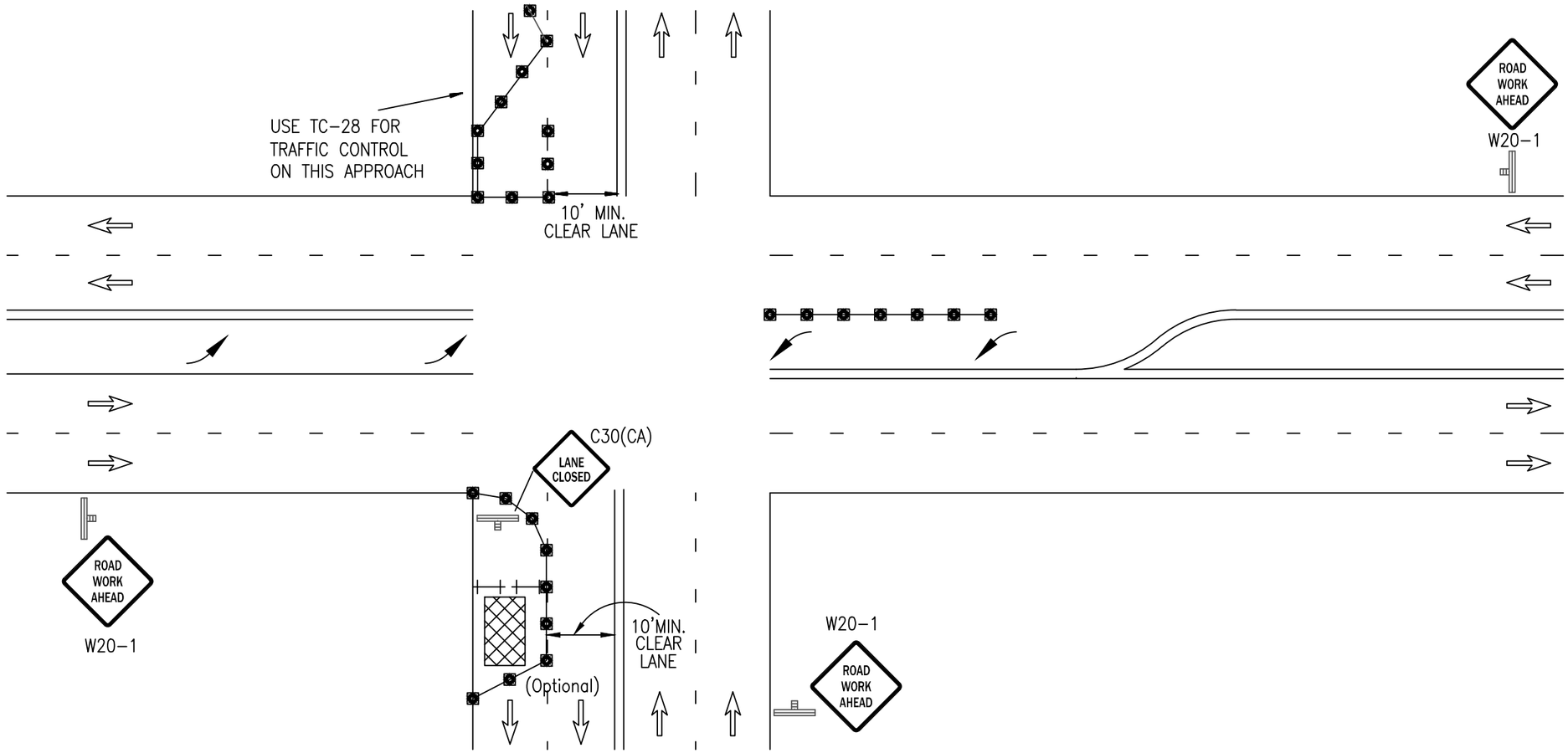
INTERIOR OF ROAD - WORK AREA

LEFT TURN INTERSECTION TRAFFIC CONTROL
WITH LEFT LANE CLOSURE AT FAR SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-37
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-37 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
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COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

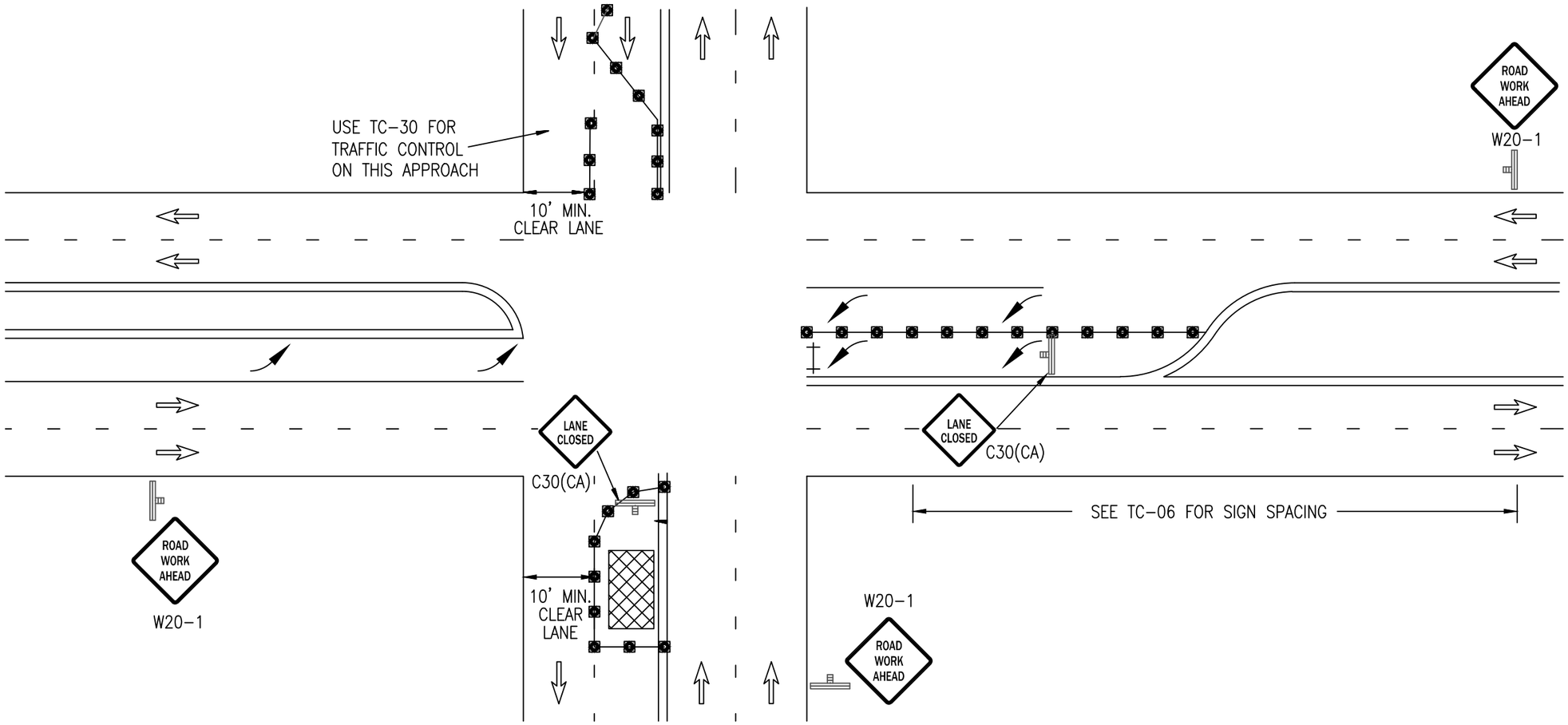
SIDE OF ROAD - WORK AREA

LEFT TURN INTERSECTION TRAFFIC CONTROL
WITH RIGHT LANE CLOSURE AT FAR SIDE OF INTERSCTION

JOB NO. _____
TEMPLATE NAME TC-38
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-38 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

INTERIOR OF ROAD - WORK AREA

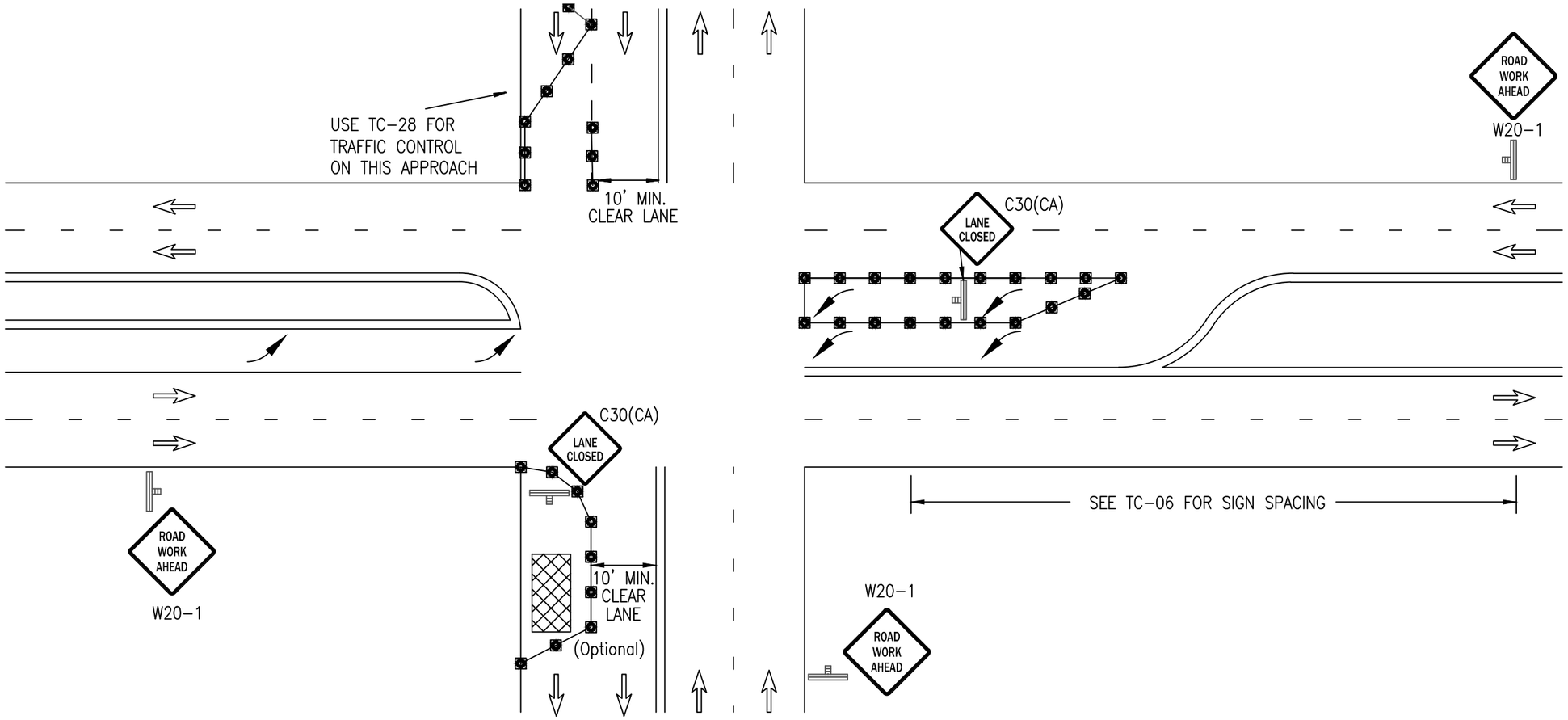
LEFT TURN INTERSECTION TRAFFIC CONTROL

WITH LEFT LANE CLOSURE AT FAR SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-39
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-39 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

SIDE OF ROAD - WORK AREA

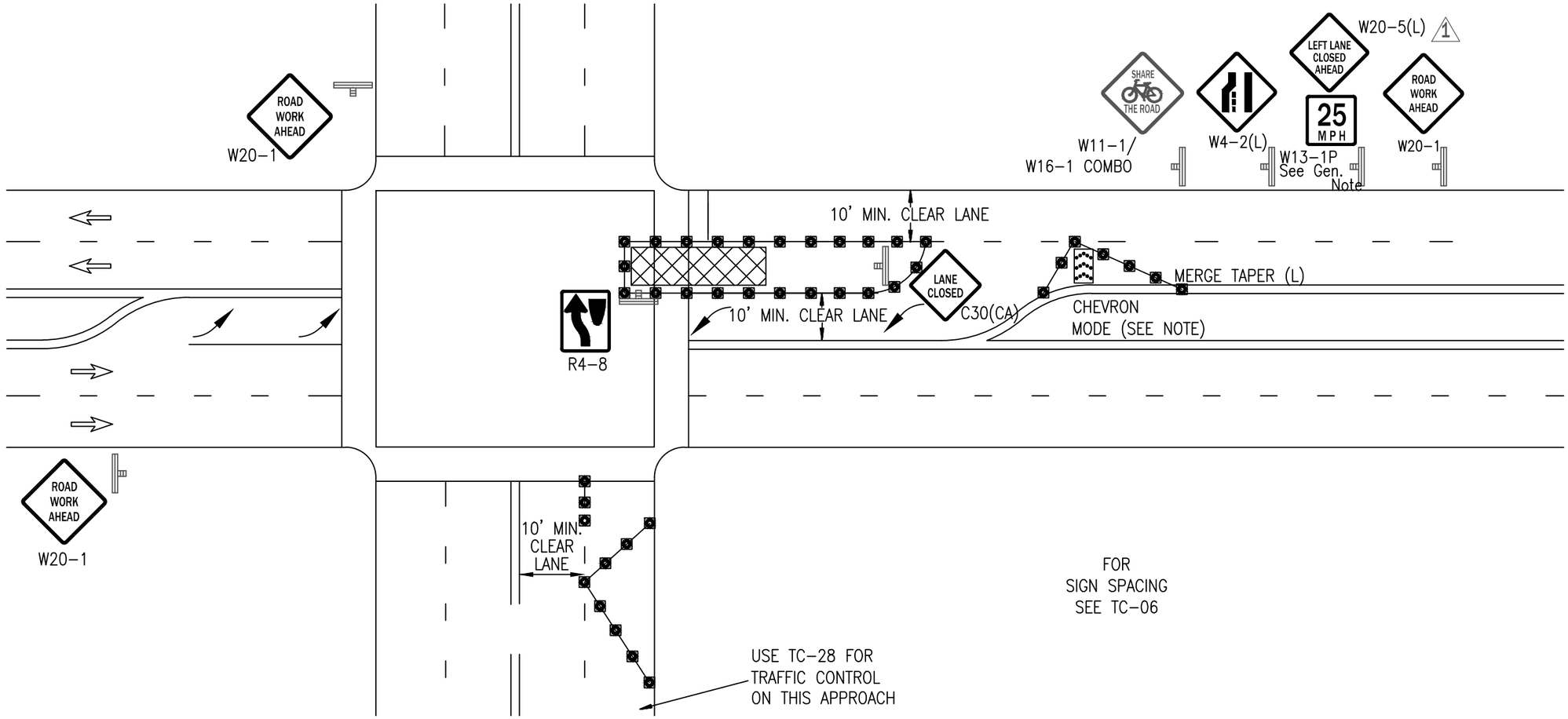
LEFT TURN INTERSECTION TRAFFIC CONTROL

WITH RIGHT LANE CLOSURE AT FAR SIDE OF INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-40
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-40 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
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- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

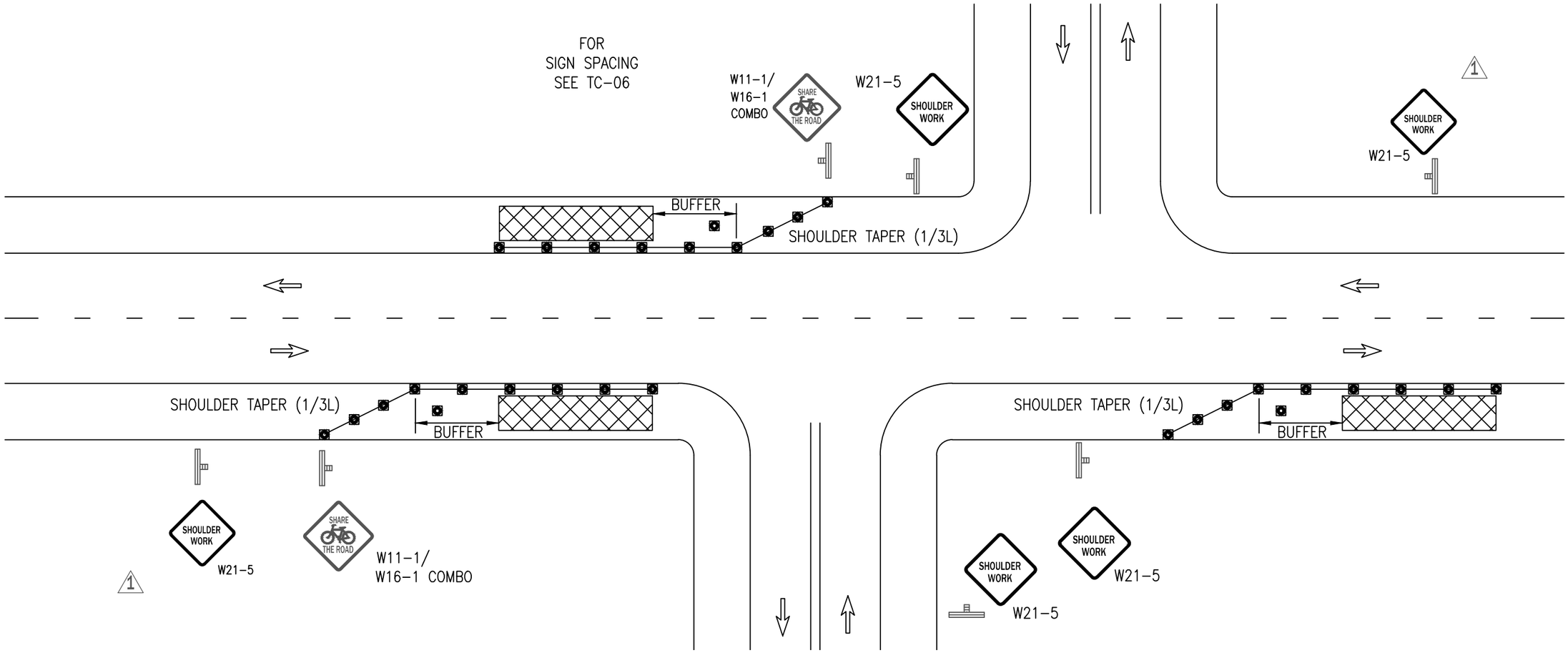
INTERSECTION - WORK AREA

RIGHT LANE / LEFT LANE CLOSURE AT INTERSECTION

JOB NO. _____
TEMPLATE NAME TC-43
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-43 OF 50 SHEETS



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES 1

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-Delete Spd Reduction / Rev. Gen. Notes	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

WORK ON SHOULDERS

JOB NO. _____
TEMPLATE NAME TC-44
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-44 OF 50 SHEETS

PEDESTRIAN MITIGATION : (Subsection)

Pedestrians (Temporary Alternate Circulation Path)

General
When crosswalk or other pedestrian facilities are temporary closed or relocated, alternate circulation paths are alterations to an existing developed pedestrian environment and are required to achieve the maximum accessibility feasible under existing conditions.

Components
Temporary Alternate Circulation Path (hereafter referred to as "path" or "pathway") shall consist of one or more of the following components: walkways, ramps, curb ramps (excluding flared sides) and landings, blended transitions, crosswalks, and pedestrian overpasses and underpasses. Elevators, platform lifts, stairways and escalators shall not be part of a path. All components of a path shall comply with the applicable portions of this document.

Continuous Width
The minimum continuous and unobstructed clear width of a path shall be 1.2 m (4.0 ft) preferably 1.5 m (5.0 ft), exclusive of the width of the pedestrian barricades and channelizing devices. Where a path turns or changes direction, it shall accommodate the continuous passage of a wheelchair or scooter. As with street or highway design for vehicles, additional maneuvering width or length may be needed along curved or angled routings, particularly where the grade exceeds 5%. Individual segments of paths shall have a minimum straight length of 1.2 m (4.0 ft).

California Code of Regulations (CCR) Title 24 Part 2 Chapter 11B section 1133B.8.6 and Americans with Disabilities Act Accessibility Guidelines (ADAAG) 4.4 Provisions for protruding objects apply across the entire width of the path.

Width at Passing Spaces
Paths that are less than 1.5 m (5.0 ft) in clear width shall provide passing spaces at intervals of 61 m (200 ft) maximum. Paths at passing spaces shall be 1.5 m (5.0 ft) wide for a distance of 1.5 m (5.0 ft).

Walkway Grade and Cross Slope
The pathway surface shall be level and shall not have a slope greater than 12 to 1 nor a cross slope greater than 2%. At locations where it is impractical to obtain the required 12 to 1 slope or 2% cross slope, exceptions may be granted on an individual bases depending on the specific site conditions.

Where the walkway of a pedestrian access route is contained within a street or highway border, its grade shall not exceed the general grade established for the adjacent street or highway.

Surface
The surface of the path shall be firm, stable, and slip resistant. The pathway shall be constructed of concrete, asphalt, non slip plywood or non slip steel plate. Non slip plywood used for a walkway surface shall be ¾ inch (18 mm) minimum and shall be thoroughly supported so as to produce a firm stable surface. Compacted soil or aggregate base material is not considered an acceptable surface.

Surface discontinuities shall not exceed ½ inch maximum. Changes in level up to ¼ inch (6 mm) may be vertical and without edge treatment. Vertical discontinuities between ¼ inch and ½ inch (6 mm and 13 mm) maximum shall be beveled at 1:2 minimum. The bevel shall be applied across the entire level change. Changes in level greater than ½ inch (13 mm) shall be accomplished by means of a ramp that complies with CCR Title 24 Part 2 Chapter 11B section 1127B.5 and ADAAG 4.7. Surfaces with individual units laid out of plane and those that are heavily textured, rough, or chamfered, will greatly increase rolling resistance and will subject pedestrians who use wheelchairs, scooters, and rolling walkers to the stressful (and often painful) effects of vibration. It is highly desirable to minimize surface discontinuities; when discontinuities on the path are unavoidable, they should be widely separated.

The installation of gratings in the surface of the pathway should be avoided. If gratings are located in path surfaces, then they shall have spaces no greater than ½ inch (13 mm) wide in one direction. If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

Location
Sidewalks at the construction location may be closed with adequate detours. Sidewalks may only be closed to through traffic and shall not prevent local pedestrian access. Detours shall not increase the path of travel by more than 500 feet. Detour routes shall be limited to existing sidewalks, private properties (see above requirements) and crossings at roadway intersections. To the maximum extent feasible, the alternate circulation path shall be provided on the same side of the street as the disrupted route. Where it is feasible to provide a same-side alternate circulation path and pedestrians will be detoured, section 6D.02 of the Federal Highway Administration Manual on Uniform Traffic Control Devices for Streets and Highways 2003 Edition (MUTCD) approved for use in California, Amended September 26, 2006, specifies that the alternate path provide a similar level of accessibility to that of the existing disrupted route. This may include the incorporation of accessible pedestrian signals (APS), curb ramps, or other accessibility features.

Pedestrians may be detoured onto private property only if written permission from the property owner is obtained along with documentation indicating that the County would not be liable in the event of an accident.

Surface discontinuities shall not exceed ½ inch maximum. Changes in level up to ¼ inch (6 mm) may be vertical and without edge treatment. Vertical discontinuities between ¼ inch and ½ inch (6 mm and 13 mm) maximum shall be beveled at 1:2 minimum. The bevel shall be applied across the entire level change. Changes in level greater than ½ inch (13 mm) shall be accomplished by means of a ramp that complies with CCR Title 24 Part 2 Chapter 11B section 1127B.5 and ADAAG 4.7. Surfaces with individual units laid out of plane and those that are heavily textured, rough, or chamfered, will greatly increase rolling resistance and will subject pedestrians who use heelchairs,scooters, and rolling walkers to the stressful (and often painful) effects of vibration. It is highly desirable to minimize surface discontinuities; when discontinuities on the path are unavoidable, they should be widely separated.

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Pedestrians may be detoured onto private property only if written permission from the property owner is obtained along with documentation indicating that the County would not be liable in the event of an accident.

Protection
Where the temporary alternate circulation path is exposed to adjacent construction, excavation drop-offs, traffic, or other hazards, it shall be protected with a pedestrian barricade or channelizing device.

When it is necessary to block travel at the departure curb to close a crosswalk that is disrupted by excavation, construction, or construction activity, care must be taken to preserve curb ramp access to the perpendicular crosswalk. This may require additional pedestrian channelization if only a single diagonal curb ramp serves the corner.

Figures TA-28 and TA-29 of the MUTCD specify notification signage for pedestrian closings and detours. Audible signage triggered by proximity switches should be used whenever possible to provide information to pedestrians such as the blind and visually impaired, who cannot use print signs.

Pedestrians routed into normal bicycle or automobile traffic lanes must be protected from traffic via pedestrian barricade or channelizing device that is continuous, immovable, stable, rigid, and visible that is free of splintered, jagged, and sharp surfaces/edges: concrete barriers (k-rail) or other similar protective devices. Caution tapes, cones, drums, sawhorses, and A Frames are not considered effective substitutions for this purpose.

Pedestrians routed onto the roadway shoulder at locations not normally traveled by bicycles or locations where bicycle traffic has been relocated must be protected with a continuous, immovable, stable, rigid, and visible barrier that is free of splintered, jagged, and sharp surfaces/edges. Pedestrian barricades and channelizing devices shall consist of a wall, fence, or enclosures specified in section 6F-58, 6F-63, and 6F-66 of the MUTCD. Caution tapes, cones, drums, sawhorses, and A Frames are not considered effective substitutions for this purpose. Barriers shall have a bottom or lower continuous rail equivalent to a 2x6 secured in a vertical orientation and a 2x6 minimum upper rail 36 inches (915 mm) minimum above the ground or walkway surface. Barrier support members shall not protrude beyond the barricade face into the pedestrian access route or alternate circulation path.

These pathways shall be well marked with reflective materials to assist both visually impaired pedestrians and vehicles traveling at times when visibility may be limited. The reflective materials shall be color yellow conforming to Federal Color No. 33538, as shown in Table IV of Standard No. 595B.

During working hours, at least one worker shall be assigned the responsibility to escort elderly, disabled or any other pedestrians in need of assistance through the construction site. Worker assigned this responsibility may also participate in other construction activities however, the assigned worker shall be aware of his or her responsibilities for providing this assistance.

Lighting
The pathway is to be continuously and uniformly illuminated at all times. When existing artificial lighting does not continuously and uniformly illuminate the path or there is no artificial lighting, there shall be temporary lights installed, if electrical power is available. Paths are more visible for persons with low vision when a pedestrian barricade or channelizing device contrasts as much as possible with its surroundings. Additional factors affecting the ease with which the pathway can be distinguished from its surroundings include shadows cast by lighting sources, surface reflectance, and the uniformity of the color and texture of the materials making up the walking surface, pedestrian barricade, or channelizing device.

Holes in the Permanent Path of Travel
When there is a hole or opening, e.g. manhole cover, within the permanent pathway of travel, there shall be a continuous, immovable, stable, rigid, and visible pedestrian barricade surrounding the boundary of the opening which is free of splintered, jagged, and sharp surfaces/edges. There shall also be a clear pathway around the pedestrian barrier at a minimum of 1.2 m (4.0 ft) preferably 1.5 m (5.0 ft). The pedestrian barrier/pathway must also meet all requirements as listed above.

REVISIONS

REV.	DESCRIPTION	BY	DATE

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

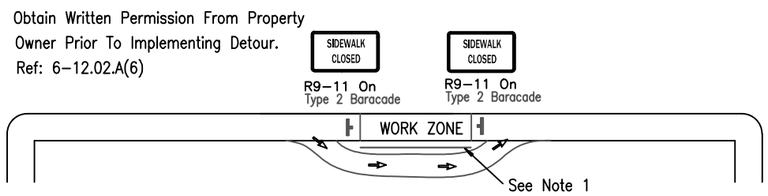
PEDESTRIAN MITIGATION REQ.

TYPICAL PEDESTRIAN CONTROL

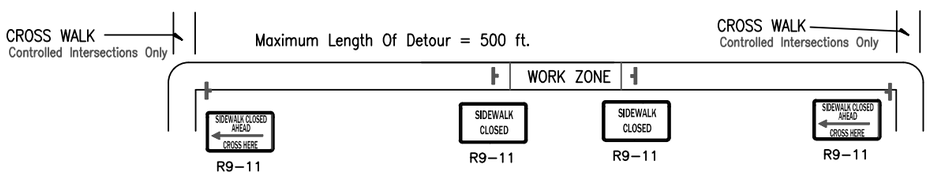
JOB NO.
TEMPLATE NAME TC-45
DRAWN LB
DESIGNED
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

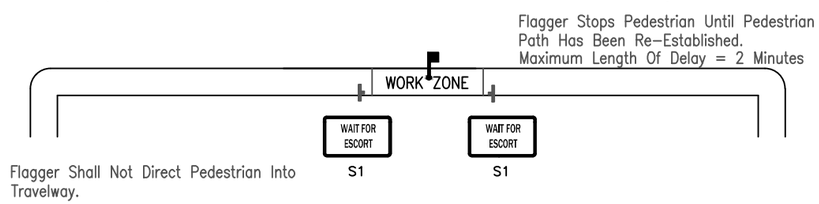
SHEET TC-45 OF 50 SHEETS



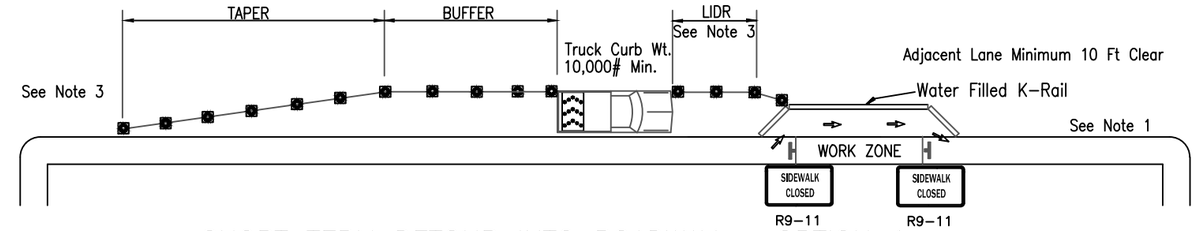
DETOUR ONTO PRIVATE PROPERTY
(PREFERRED OPTION)



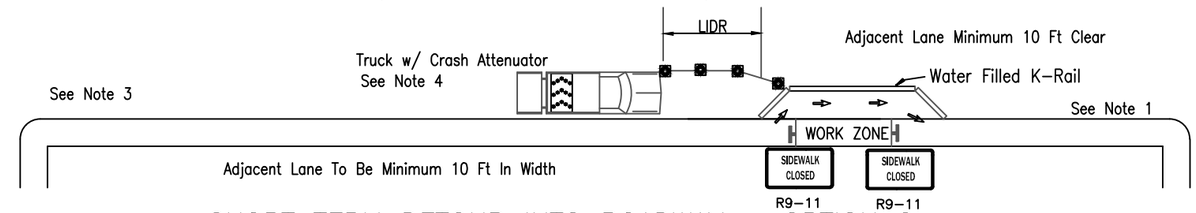
DETOUR TO OTHER SIDE OF ROAD
(CONTROLLED INTERSECTIONS OR ON RESIDENTIAL ROADWAYS ONLY)



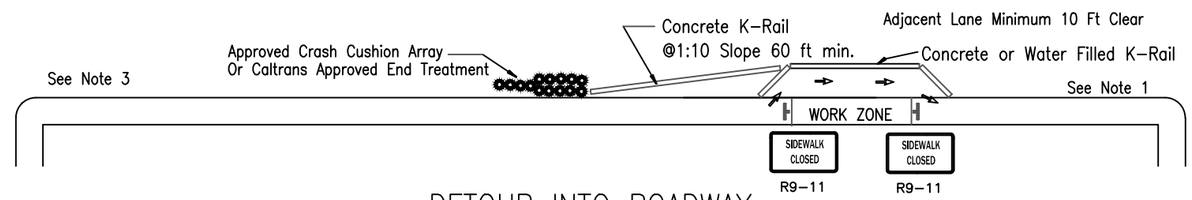
FLAGGED PEDESTRIAN CONTROL
(ACCEPTABLE OPTION)



SHORT TERM DETOUR INTO ROADWAY – OPTION 1
(ACCEPTABLE WHEN CONDITIONS ALLOW)



SHORT TERM DETOUR INTO ROADWAY – OPTION 2
(ACCEPTABLE WHEN CONDITIONS ALLOW)



DETOUR INTO ROADWAY
(ACCEPTABLE WHEN CONDITIONS ALLOW)

PEDESTRIAN CONTROL TEMPLATE NOTES

1. Provide barrier to separate public from work during non working hours.
2. See sheet TC-06 for LIDG requirements.
3. Provide appropriate advance warning signage for work.
4. Truck w/ crash attenuator shall conform to requirements included in NCHRP350.
5. Implemented pedestrian controls must conform to requirements included on all other traffic control sheets.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.
- Use of Traffic Control devices for crash attenuation shall be approved for use by Caltrans NCHPR350 testing and be listed on the Caltrans approved products list.

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-New Sheet	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

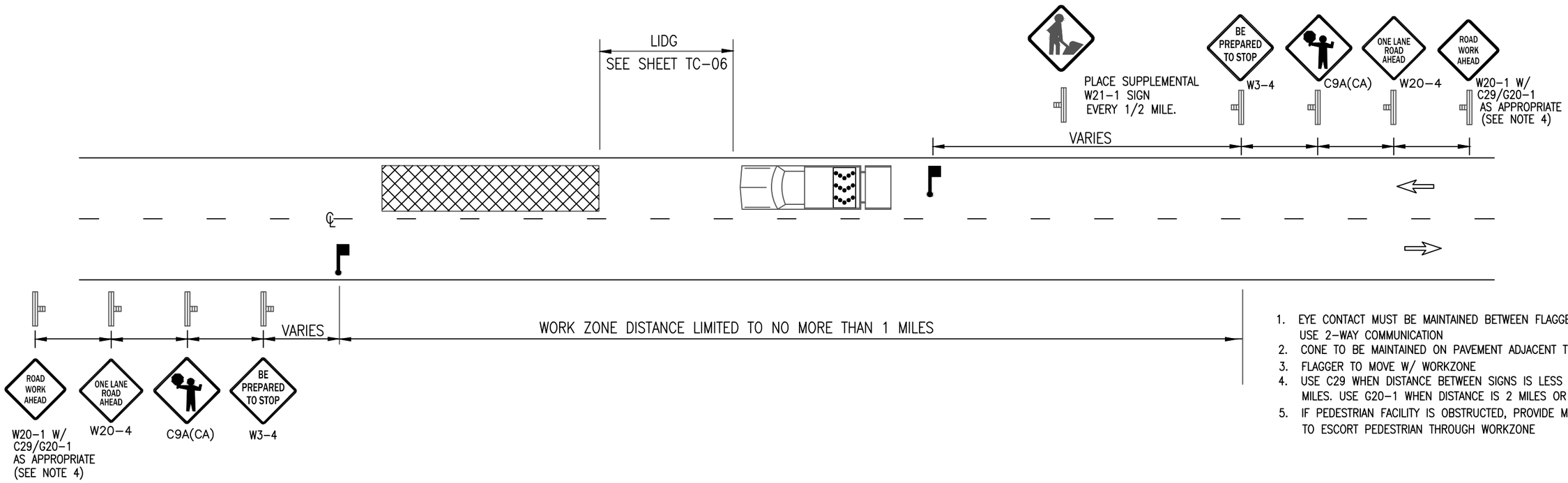
M & O TYPICAL TRAFFIC CONTROL PLANS

MOVING TRAFFIC CONTROL
PEDESTRIAN CONTROL
TYPICAL VARIATIONS

JOB NO. _____
TEMPLATE NAME TC-45.1
DRAWN GK
DESIGNED _____
CHECKED GK
SHEET DATE 1/1/2014

SCALE
HOR: N/A
VER: N/A

SHEET TC-45.1 OF 50 SHEETS



1. EYE CONTACT MUST BE MAINTAINED BETWEEN FLAGGERS OR USE 2-WAY COMMUNICATION
2. CONE TO BE MAINTAINED ON PAVEMENT ADJACENT TO FLAGGER
3. FLAGGER TO MOVE W/ WORKZONE
4. USE C29 WHEN DISTANCE BETWEEN SIGNS IS LESS THAN 2 MILES. USE G20-1 WHEN DISTANCE IS 2 MILES OR GREATER.
5. IF PEDESTRIAN FACILITY IS OBSTRUCTED, PROVIDE MONITOR TO TO ESCORT PEDESTRIAN THROUGH WORKZONE

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES

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- Signs and Devices must be visible at 1000'.
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- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-New Sheet	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

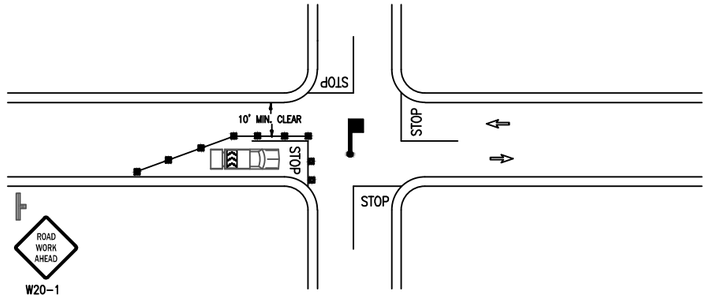
MOVING TRAFFIC CONTROL

SHOULDER MAINTENANCE
SINGLE LANE RESTRICTION

JOB NO. _____
TEMPLATE NAME TC-44
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

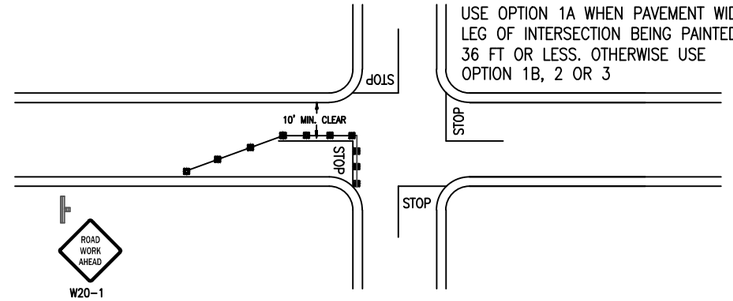
SCALE
HOR: N/A
VER: N/A

SHEET TC-46 OF 50 SHEETS

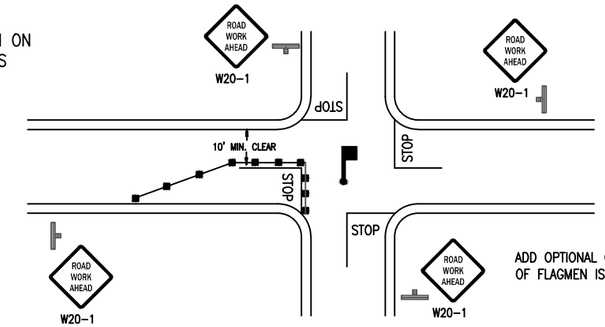


OPTION 1 – PAINTING OPER.

USE OPTION 1A WHEN PAVEMENT WIDTH ON LEG OF INTERSECTION BEING PAINTED IS 36 FT OR LESS. OTHERWISE USE OPTION 1B, 2 OR 3



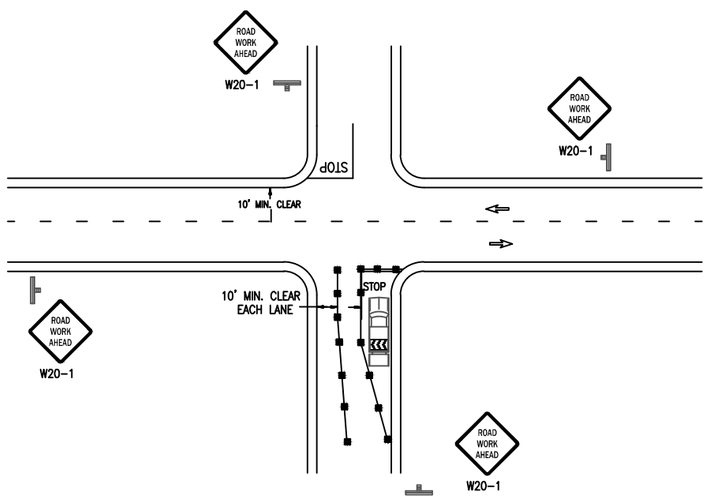
OPTION 1A – DRYING OPER.



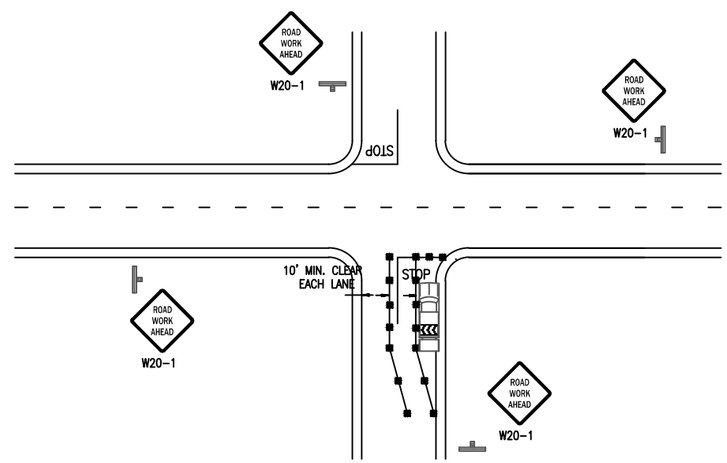
ADD OPTIONAL C9A IF VISIBILITY OF FLAGMEN IS LIMITED.

OPTION 1B – DRYING OPER.

4 WAY STOP–MINOR STREETS

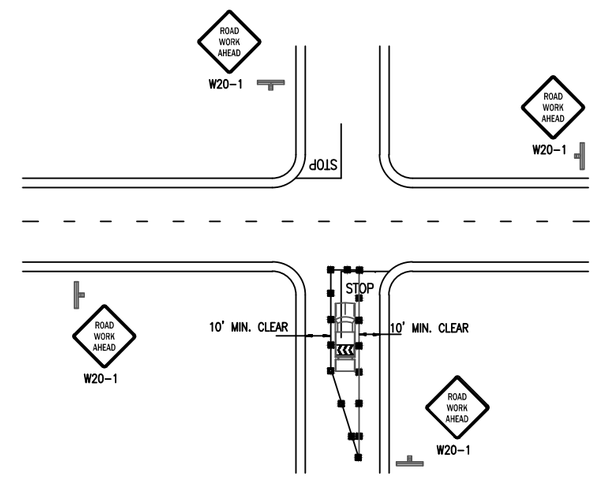


OPTION 2 – PAINTING/DRYING OPER.



OPTION 3A – PAINTING/DRYING OPER.

2 WAY STOP–MINOR /MAJOR STREETS



OPTION 3B – PAINTING/DRYING OPER.

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES

–See TC–05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.

–See TC–06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.

–Signs may not be substituted.

–Signs and Devices must be visible at 1000'.

–See Sheet TC–45 for pedestrian mitigation.

–Share The Road signage required when outermost lane plus paved shoulder is less than 14'.

–The W13–1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC–06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–New Sheet	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

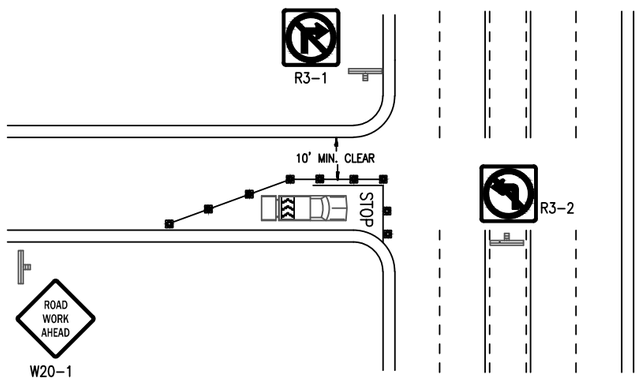
M & O TYPICAL TRAFFIC CONTROL PLANS

SHORT DURATION
60 MINUTES OR LESS
LEGEND PAINTING

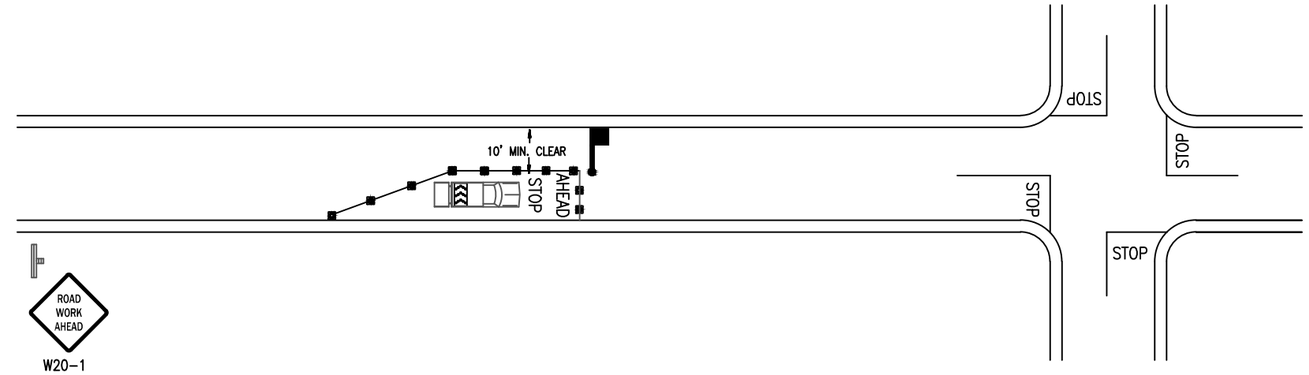
JOB NO. _____
TEMPLATE NAME TC–44
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

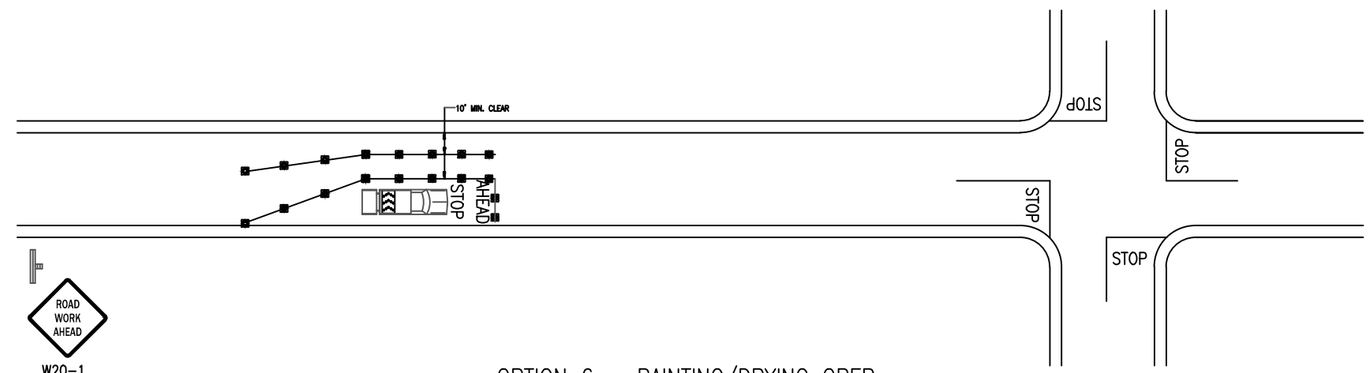
SHEET TC–47 OF 50 SHEETS



OPTION 4 – PAINTING OPER.



OPTION 5 – PAINTING/DRYING OPER.



OPTION 6 – PAINTING/DRYING OPER.

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	–New Sheet	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

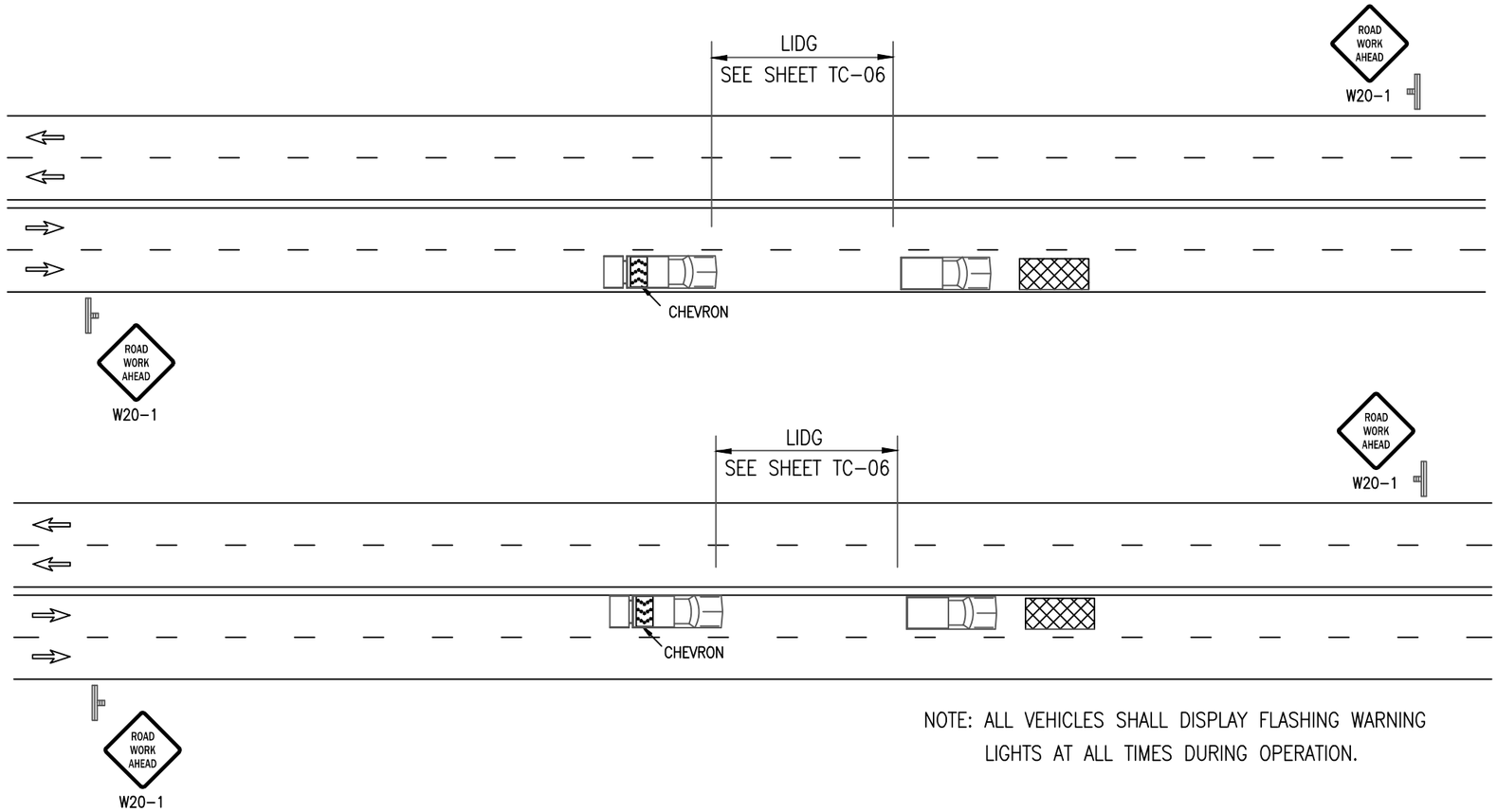
M & O TYPICAL TRAFFIC CONTROL PLANS

SHORT DURATION
60 MINUTES OR LESS
LEGEND PAINTING 2

JOB NO. _____
TEMPLATE NAME TC-44
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-48 OF 50 SHEETS



NOTE: ALL VEHICLES SHALL DISPLAY FLASHING WARNING LIGHTS AT ALL TIMES DURING OPERATION.

LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-New Sheet	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

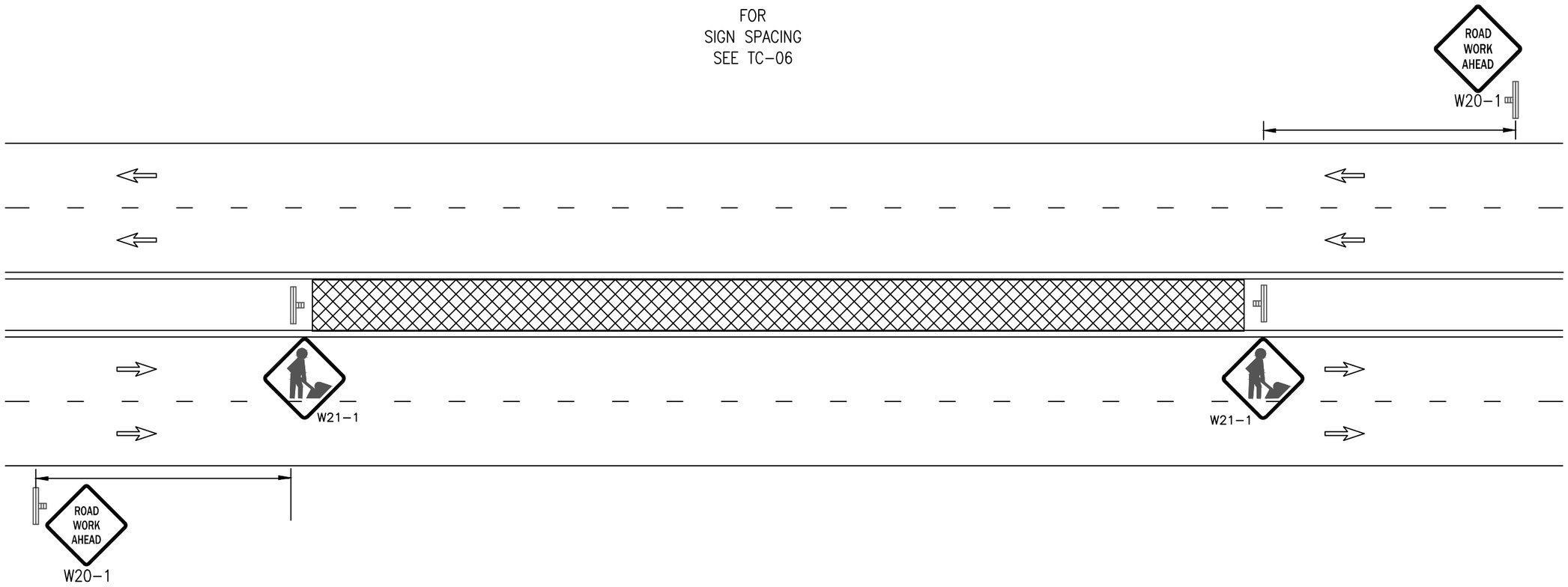
SHORT DURATION
60 MINUTES OR LESS
RIGHT OR LEFT LANE TRAFFIC CONTROL

JOB NO. _____
TEMPLATE NAME TC-44
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET TC-49 OF 50 SHEETS

FOR
SIGN SPACING
SEE TC-06



LEGEND

- CONE
- BARRICADE
- FLAGGER
- SIGN
- ARROW PANEL
- WORK AREA
- TRAFFIC DIRECTION
- CHANGEABLE MESSAGE SIGN

GENERAL NOTES

- See TC-05 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise noted on the drawing.
- See TC-06 for sign spacing, spacing of cones, taper and buffer lengths. Sign spacing may be increased and cone spacing may be decreased.
- Signs may not be substituted.
- Signs and Devices must be visible at 1000'.
- See Sheet TC-45 for pedestrian mitigation.
- Share The Road signage required when outermost lane plus paved shoulder is less than 14'.
- The W13-1P(25) shall be used when the lane adjacent to work is less than 11 feet and when the work is not protected by a fixed barrier.

COMPETENT PERSON

NAME _____

PHONE _____

POSTED SPEED LIMIT	*TAPER LENGTH	*SPACING OF CONES	*SIGN SPACING	*BUFFER LENGTH

* REFERENCE TABLES ON TC-06

REVISIONS

REV.	DESCRIPTION	BY	DATE
1	-New Sheet	GDK	2/14

REZA MOGHISSI, CHIEF
DEPARTMENT OF TRANSPORTATION

SACDOT

M & O TYPICAL TRAFFIC CONTROL PLANS

SHORT DURATION
60 MINUTES OR LESS
MEDIAN WORK

JOB NO. _____
TEMPLATE NAME TC-44
DRAWN LB
DESIGNED _____
CHECKED SU/GK
SHEET DATE 7/1/2010

SCALE
HOR: N/A
VER: N/A

SHEET
TC-50
OF 50 SHEETS