

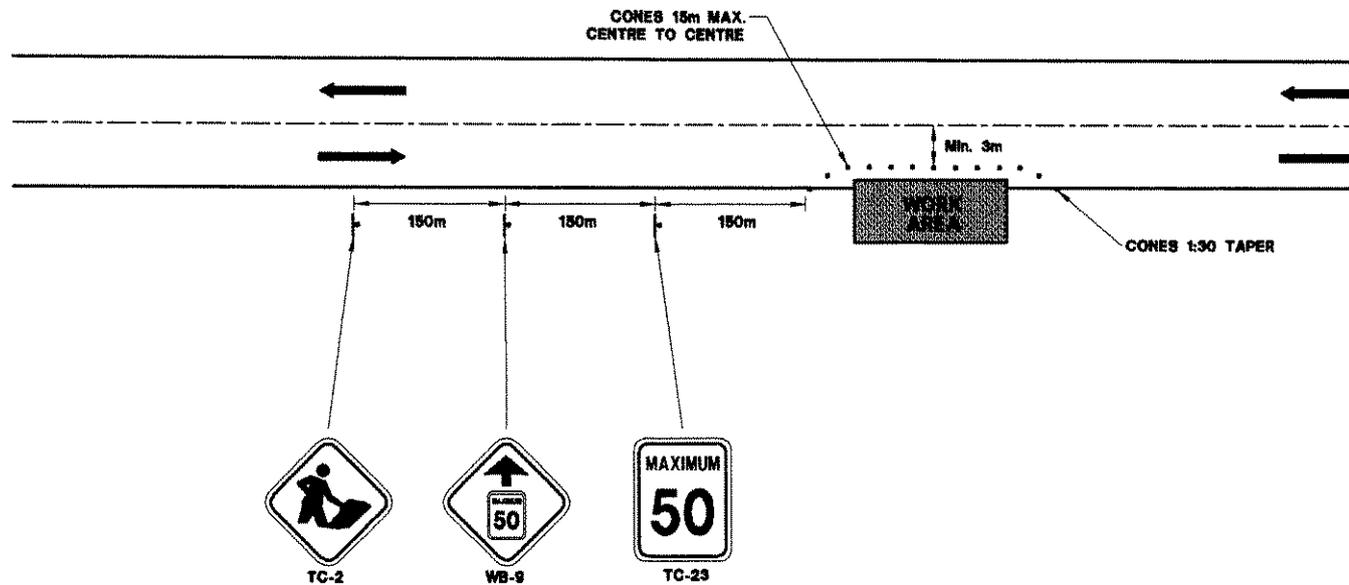
SD-1000-01-05
TYPICAL SIGNING
TEMPORARY CONDITION
WORK OFF ROAD IN RIGHT LANE

Date: MARCH 2003

Revised: APRIL 2004

Approved
K. Kluos
Director
Highways Division

APR 21 2005
Date



NOTE:
This application to be used only if a minimum of 3 metres of the travel lane remains open for traffic. If less than 3 metres, signage for one lane closure are to applied.



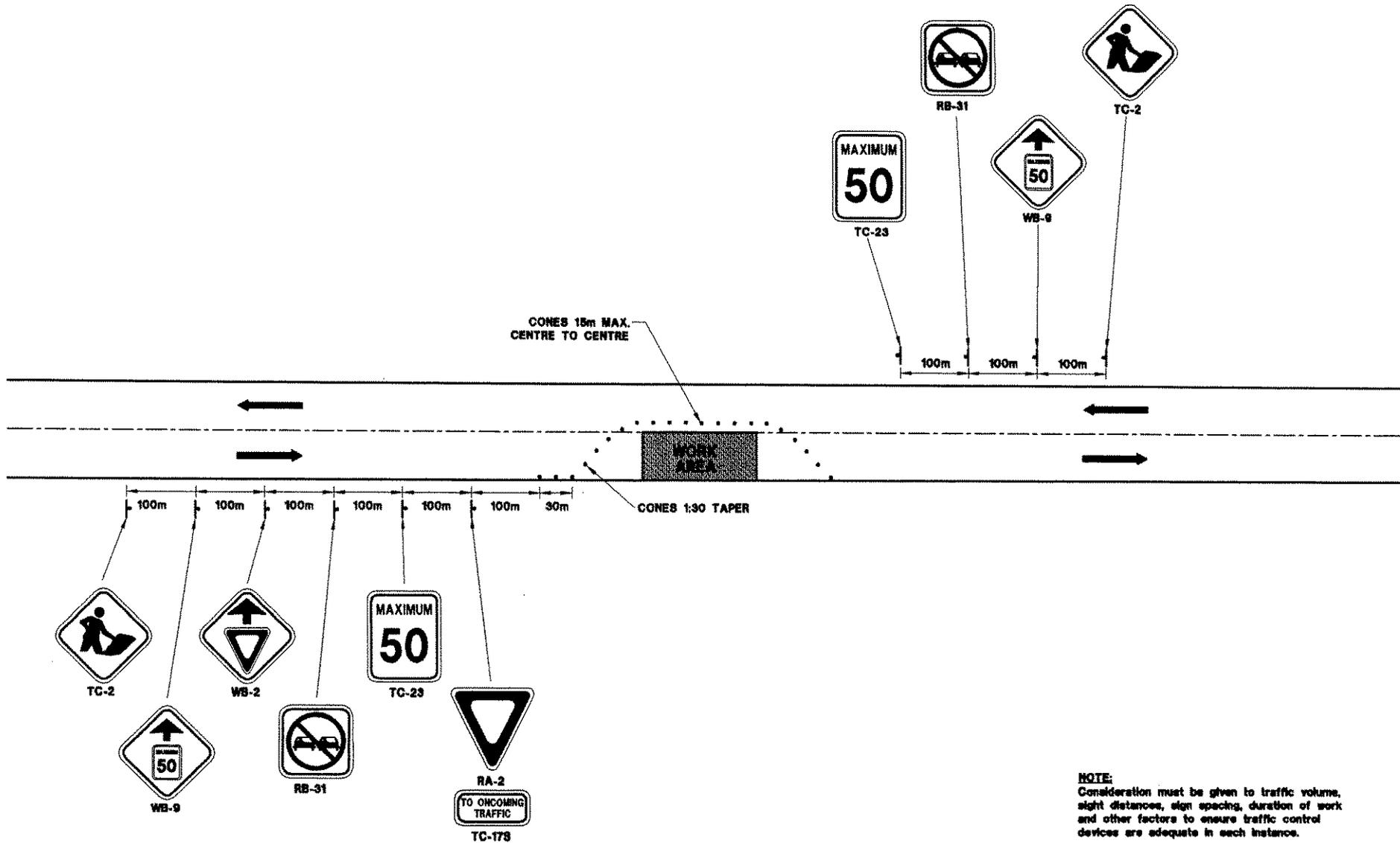
SD-1000-01-03
TYPICAL SIGNING
TEMPORARY CONDITION
ENCROACHMENT IN RIGHT LANE

Date: **MARCH 2003**

Revised: **APRIL 2005**

Approved
K. K. [Signature]
Director
Highways Division

APR 21 2005
Date



NOTE:
 Consideration must be given to traffic volume, sight distances, sign spacing, duration of work and other factors to ensure traffic control devices are adequate in each instance.



SD-1000-01-02
TYPICAL SIGNING
TEMPORARY ONE LANE CLOSURE
(ONE LANE ALTERNATING TRAFFIC)

Date: **MARCH 2003** Revised: **APRIL 2005**

Approved
K. Khoo
 Director
 Highways Division

APR 21 2005
 Date



WD-A45

THIS SIGN (WD-A45) SHALL BE USED ON ALL CONSTRUCTION AND MAINTENANCE WORKS WHERE FLAGMEN ARE EMPLOYED.

PROJECT SIGN
 SUPPLIED BY ENGINEER
 NEXT ____ km.
 UNDER CONSTRUCTION
 OBEY ALL
 SIGNS AND SIGNALS
 DEPARTMENT OF TRANSPORTATION

NOTE:
 1. SPEED LIMIT SIGNS SHALL BE POSTED EVERY 1000 METRES THROUGHOUT THE WORK AREA WHERE THERE IS A RESTRICTED SPEED ZONE.

GAZETTED HIGHWAY SPEED



RB-1



SUPPLIED BY ENGINEER



RB-1A



WD-150



WD-A22



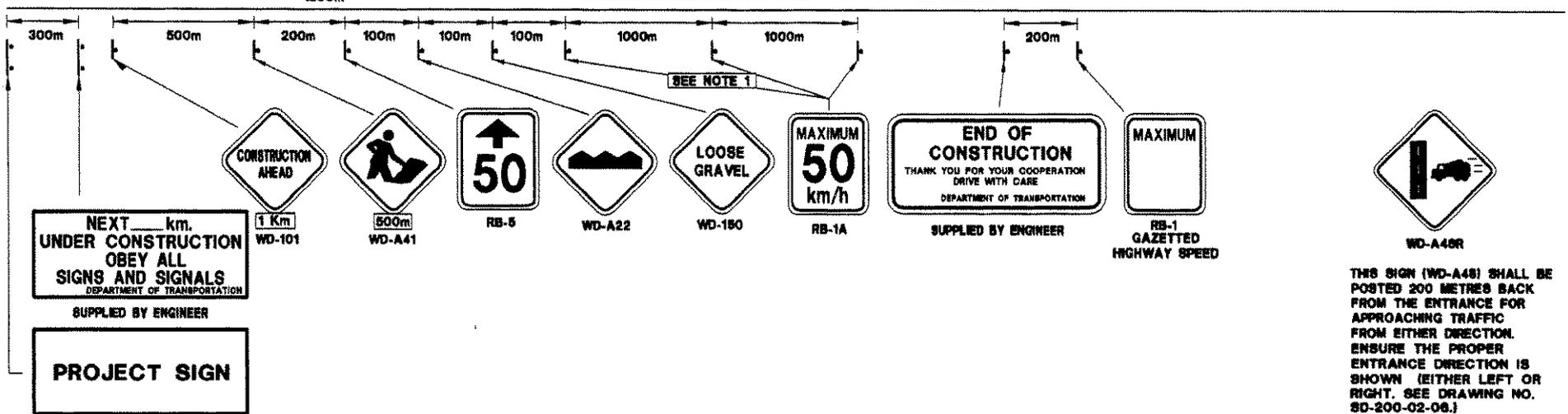
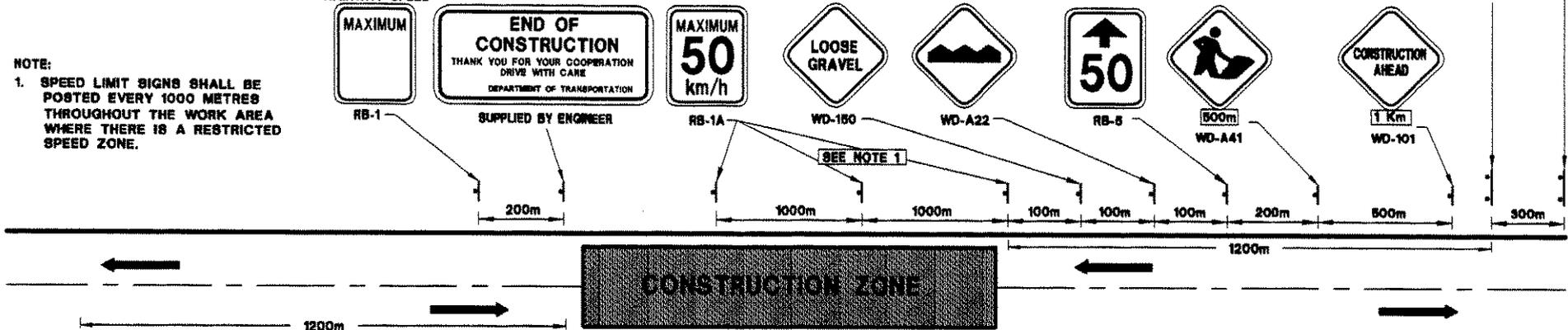
RB-5



WD-A41



WD-101



THIS SIGN (WD-A48) SHALL BE POSTED 200 METRES BACK FROM THE ENTRANCE FOR APPROACHING TRAFFIC FROM EITHER DIRECTION. ENSURE THE PROPER ENTRANCE DIRECTION IS SHOWN (EITHER LEFT OR RIGHT. SEE DRAWING NO. SD-200-02-08.)



SD-200-02-01
TYPICAL SIGNING WHERE TRAFFIC IS MAINTAINED
 Date: DEC 1995 Revised: APRIL 2005

Approved
K. H. [Signature]
 Director
 Highways Division
 APR 21 2005
 Date

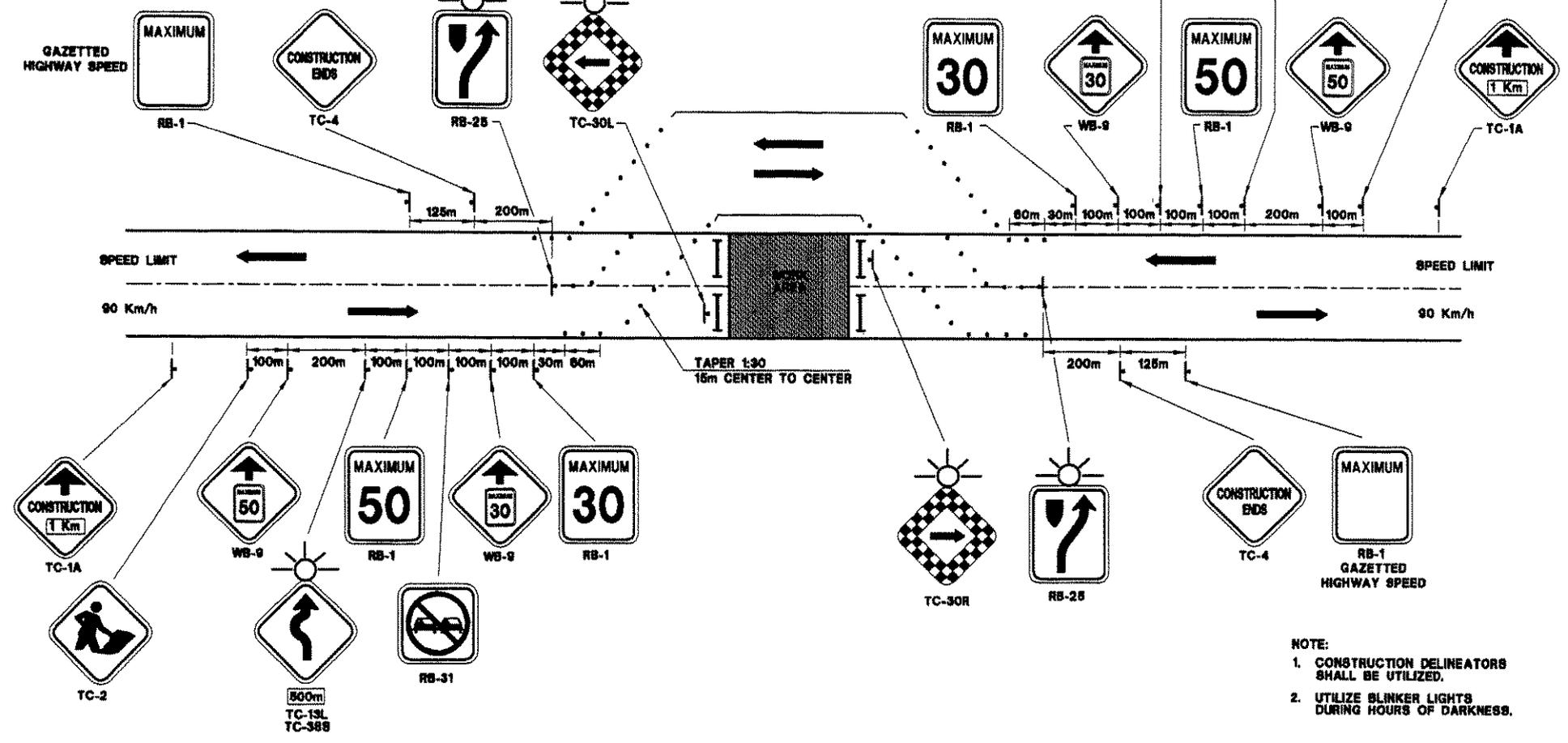
WORK AREA

SIGN

DELINEATOR

BARRICADE

BLINKER LIGHT (SEE NOTE 2)



- NOTE:**
1. CONSTRUCTION DELINEATORS SHALL BE UTILIZED.
 2. UTILIZE BLINKER LIGHTS DURING HOURS OF DARKNESS.



SD-200-02-02

ROADSIDE DIVERSION

APPROACH SPEED ≥ 90 Km/h

Date: DEC 1995 Revised: APRIL 2005

Approved

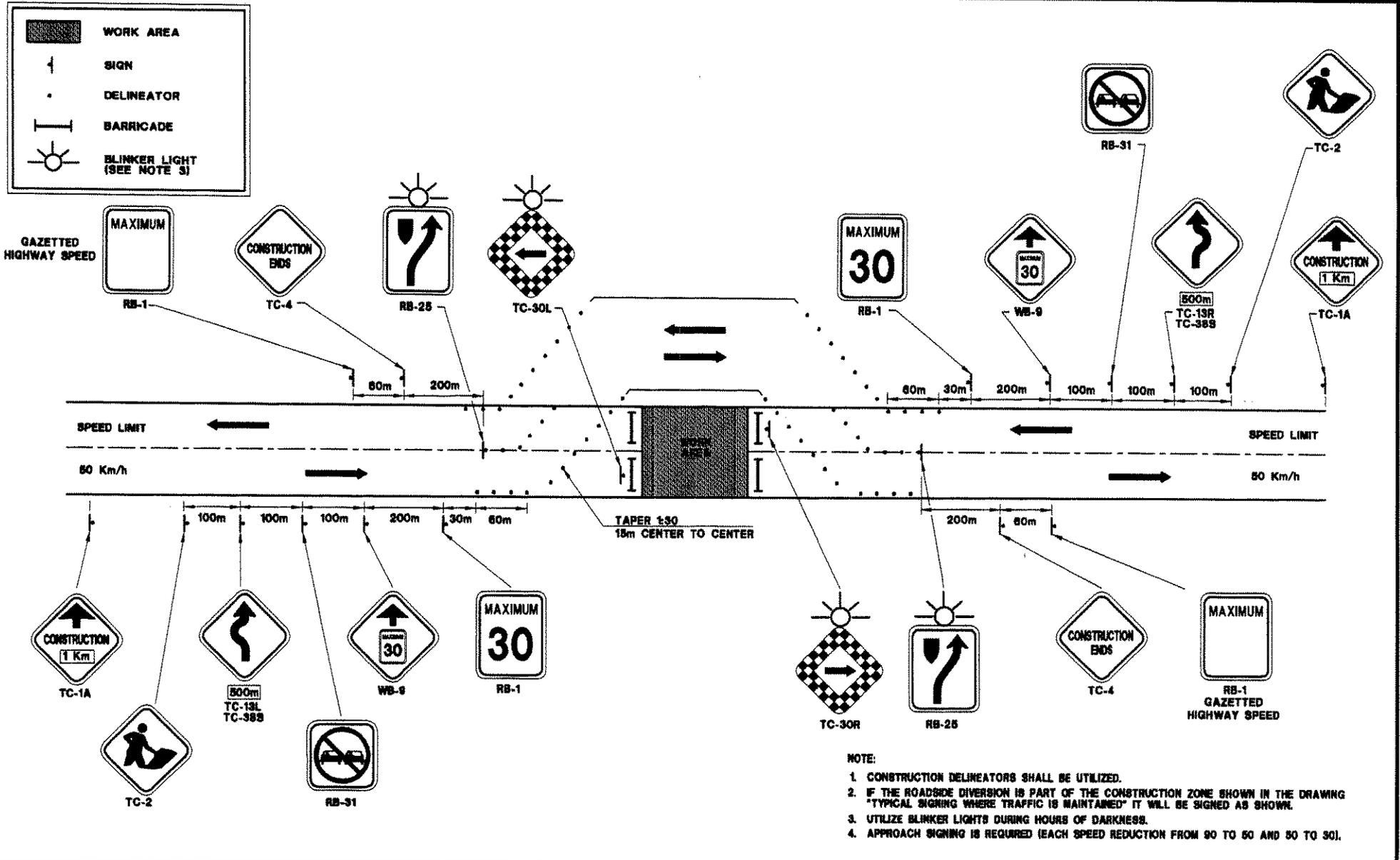
KCMhuwef

Director

Highways Division

APR 21 2005

Date



- NOTE:
1. CONSTRUCTION DELINEATORS SHALL BE UTILIZED.
 2. IF THE ROADSIDE DIVERSION IS PART OF THE CONSTRUCTION ZONE SHOWN IN THE DRAWING "TYPICAL SIGNING WHERE TRAFFIC IS MAINTAINED" IT WILL BE SIGNED AS SHOWN.
 3. UTILIZE BLINKER LIGHTS DURING HOURS OF DARKNESS.
 4. APPROACH SIGNING IS REQUIRED (EACH SPEED REDUCTION FROM 90 TO 50 AND 50 TO 30).



SD-200-02-03

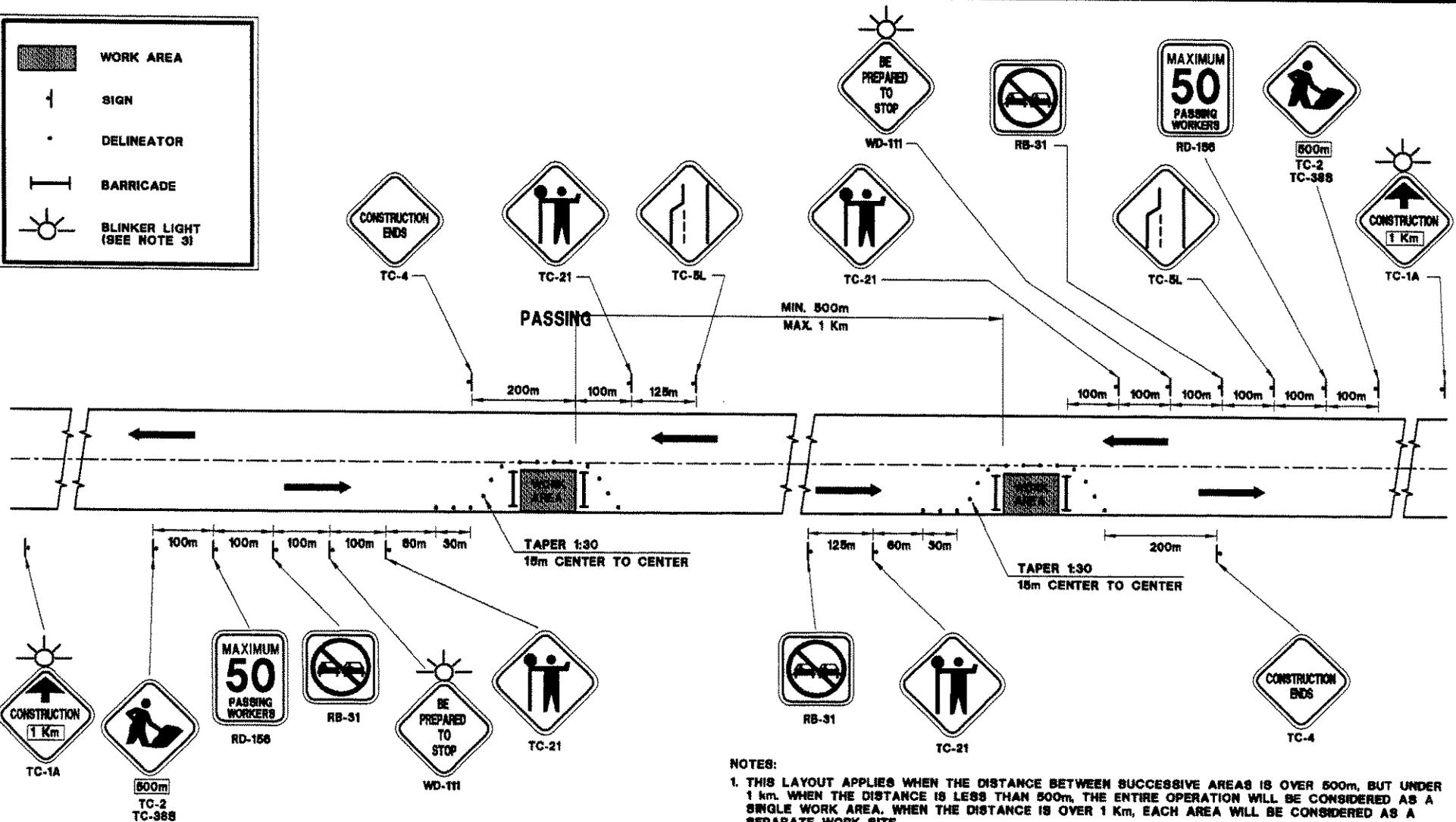
ROADSIDE DIVERSION
APPROACH SPEED ≤ 50 Km/h

Date: DEC 1995 Revised: APRIL 2005

Approved
K. Chrusiel
Director
Highways Division

APR 21 2005
Date

| | |
|---|-------------------------------|
|  | WORK AREA |
|  | SIGN |
|  | DELINEATOR |
|  | BARRICADE |
|  | BLINKER LIGHT (SEE NOTE 3) |



- NOTES:
1. THIS LAYOUT APPLIES WHEN THE DISTANCE BETWEEN SUCCESSIVE AREAS IS OVER 500m, BUT UNDER 1 km. WHEN THE DISTANCE IS LESS THAN 500m, THE ENTIRE OPERATION WILL BE CONSIDERED AS A SINGLE WORK AREA. WHEN THE DISTANCE IS OVER 1 Km, EACH AREA WILL BE CONSIDERED AS A SEPARATE WORK SITE.
 2. USE OF 700mm TRAFFIC CONES DURING DAYLIGHT OPERATIONS FOR DELINEATION DEVICES FOR TEMPORARY WORK AREAS IS ACCEPTABLE. IF OPERATIONS WILL EXTEND INTO HOURS OF DARKNESS, CONSTRUCTION DELINEATORS SHALL BE USED.
 3. UTILIZE BLINKER LIGHTS DURING HOURS OF DARKNESS.



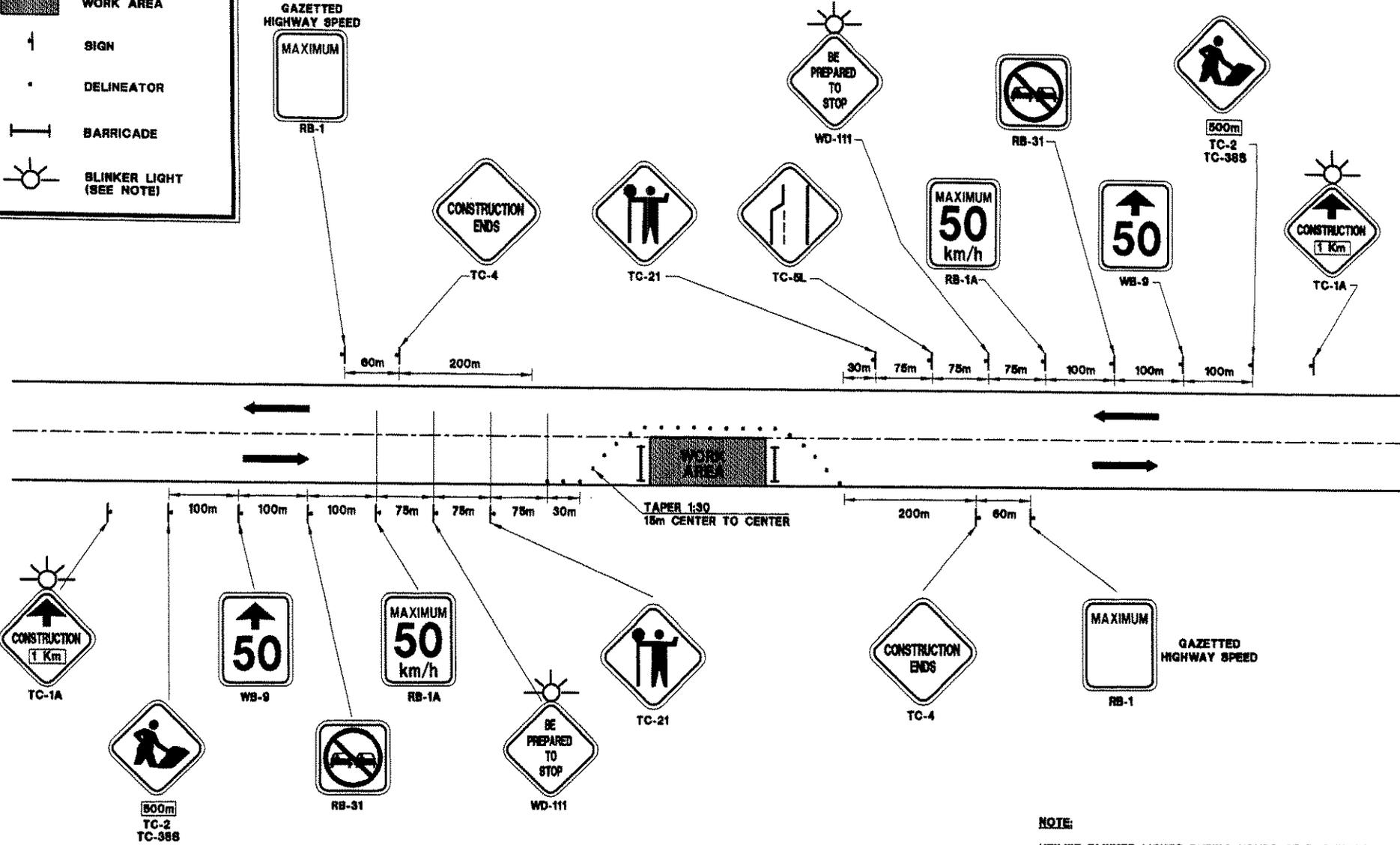
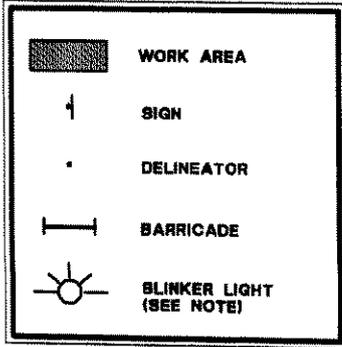
SD-200-02-04

**TYPICAL SIGNING FOR
SUCCESSIVE WORK AREAS**

Date: DEC. 1995 Revised: MARCH 2003

Approved
K. Chiu
Director
Highways Division

APR 21 2005
Date



NOTE:
 UTILIZE BLINKER LIGHTS DURING HOURS OF DARKNESS.



SD-200-02-05
ONE LANE CLOSED

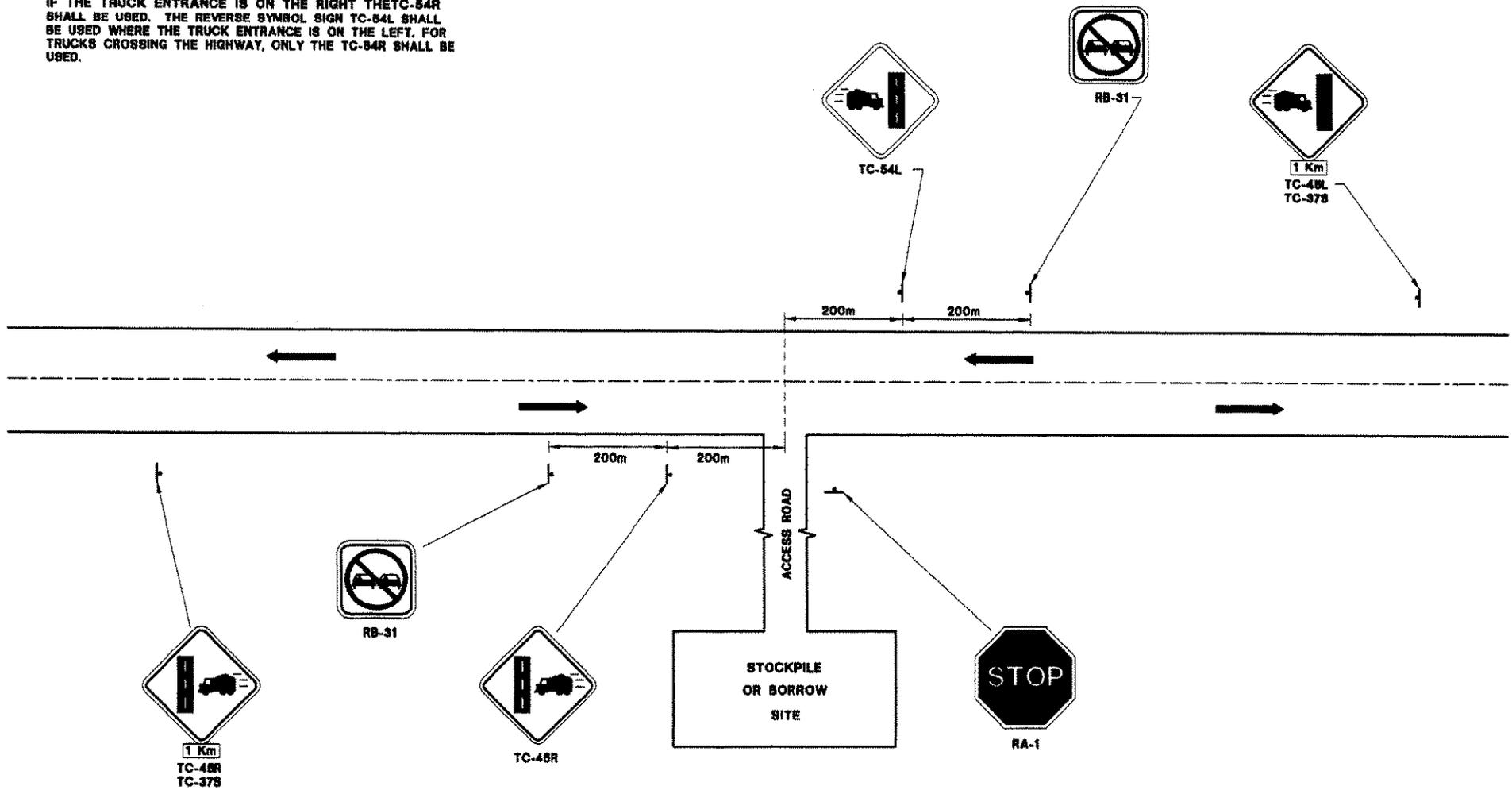
Date: DEC. 1995 Revised: APRIL 2005

Approved
Kcmhuoel
 Director
 Highways Division

APR 21 2005
 Date

NOTE:

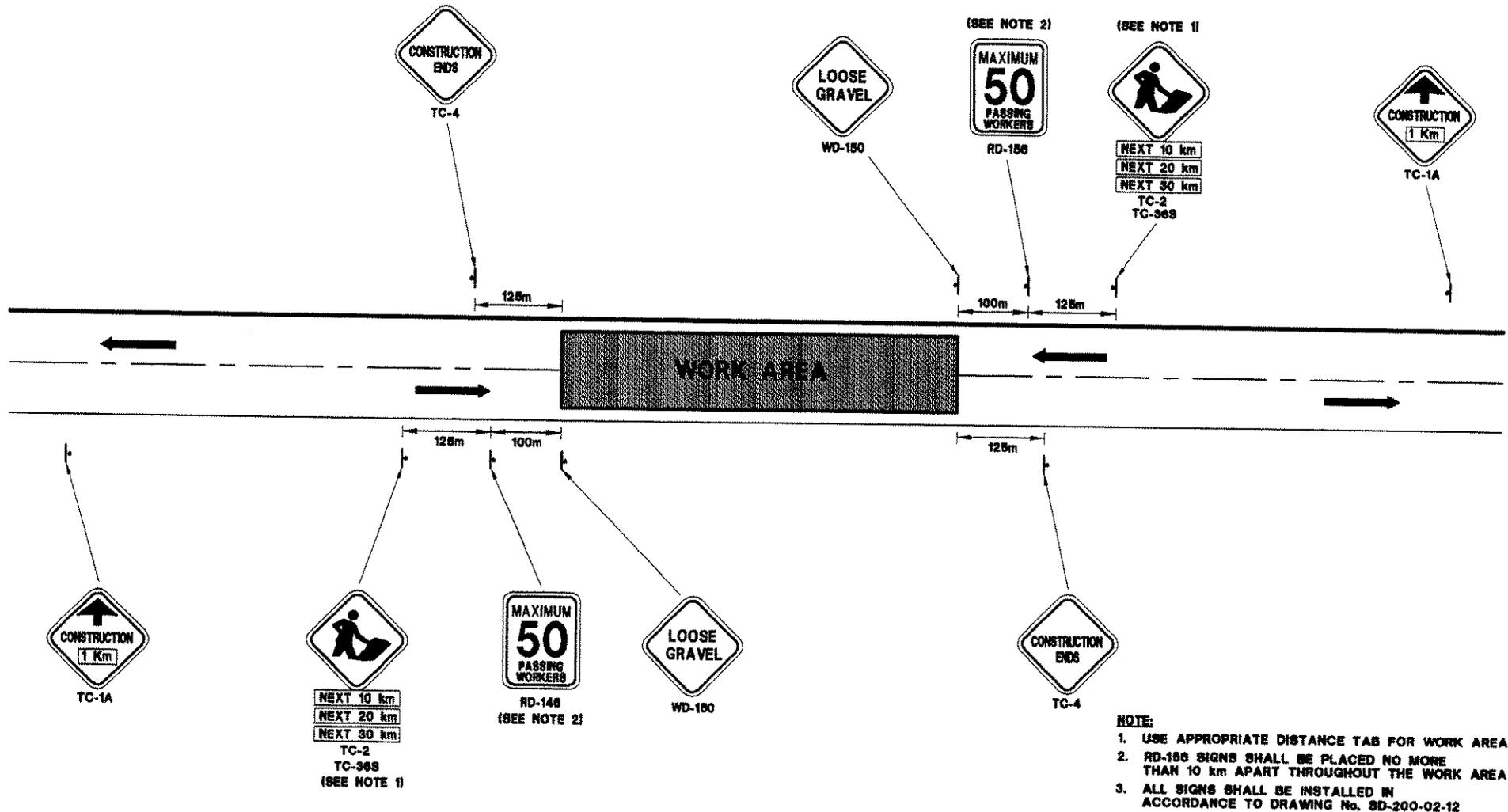
IF THE TRUCK ENTRANCE IS ON THE RIGHT THE TC-54R SHALL BE USED. THE REVERSE SYMBOL SIGN TC-54L SHALL BE USED WHERE THE TRUCK ENTRANCE IS ON THE LEFT. FOR TRUCKS CROSSING THE HIGHWAY, ONLY THE TC-54R SHALL BE USED.



SD-200-02-06
TYPICAL SIGNING FOR STOCKPILE AND BORROW SITE ACCESS ROADS
 Date: DEC. 1995 Revised: MARCH 2003

Approved
K. M. Wood
 Director
 Highways Division

APR 21 2005
 Date



- NOTE:**
1. USE APPROPRIATE DISTANCE TAB FOR WORK AREA
 2. RD-150 SIGNS SHALL BE PLACED NO MORE THAN 10 km APART THROUGHOUT THE WORK AREA
 3. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE TO DRAWING No. 8D-200-02-12



SD-200-02-16

**TYPICAL SIGNING ON HIGHWAY
REGRAVELING PROJECTS**

Date: FEB 1996 Revised: MARCH 2003

Approved
R. K. [Signature]
Director
Highways Division

APR 21 2005
Date



LETTERING - BLACK
 BACKGROUND - ORANGE
 HIGH INTENSITY
 REFLECTIVE
 SHEETING

BACK OF SIGN - OFF WHITE

NOTES:

1. **SIGNBOARD:**
 19mm THICK 1219mm x 2438mm DOUGLAS FIR PLYWOOD TO CSA-0121 STANDARD CONSTRUCTION MEDIUM DENSITY OVERLAY ONE SIDE.
2. SIGN FACE COATING TO BE HIGH INTENSITY GRADE REFLECTIVE SHEETING.
3. WEATHERTIGHT SEAL ON SIGNBOARD EDGES WOOD FILLER AND PAINT.
4. **TEXT INFORMATION:**
 SILKSCREEN OR ADHESIVE TYPE LETTERING MATERIALS WITH APPROVAL.
5. **PAINT:**
 THREE COAT ALKYD TYPE WITHOUT SILICONE ADDITIVES, 1st COAT: ALKYD PRIMER, 2nd & 3rd COATS: ALKYD GLOSS.
6. **COLOURS:**
 OFF-WHITE: GENERAL PAINT 4598W OR BENJAMIN MOORE 16-11.
 BLACK: ANY BLACK STANDARD.
7. **TYPOGRAPHY:**
 ALL TEXT - HELVETICA BOLD, UPPER CASE. "DEPARTMENT OF TRANSPORTATION" - HELVETICA LIGHT.

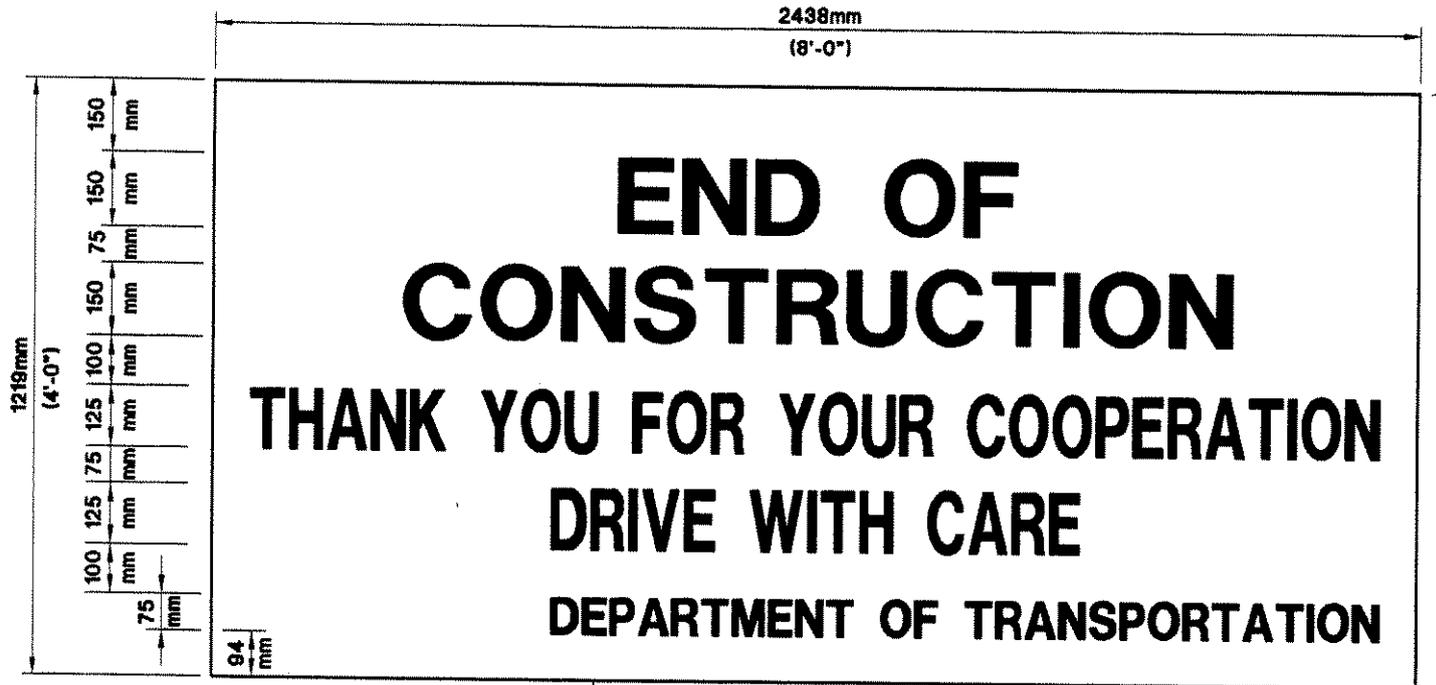


| | |
|------------------------------|---------------------|
| SD-200-02-52 | |
| WARNING SIGN CONSTRUCTION | |
| Date: DEC 1995 | Revised: MARCH 2002 |

Approved

 Director
 Highways Division

APR 21 2005
 Date



LETTERING - BLACK
BACKGROUND - OFF WHITE

BACK OF SIGN - OFF WHITE

NOTES:

1. **SIGNBOARD:**
19mm THICK 1219mm x 2438mm DOUGLAS FIR PLYWOOD TO CSA-0121 STANDARD CONSTRUCTION MEDIUM DENSITY OVERLAY ONE SIDE.
2. WEATHERTIGHT SEAL ON SIGNBOARD EDGES WOOD FILLER AND PAINT.
3. **TEXT INFORMATION:**
SILKSCREEN OR ADHESIVE TYPE LETTERING MATERIALS WITH APPROVAL.
4. **PAINT:**
THREE COAT ALKYD TYPE WITHOUT SILICONE ADDITIVES, 1st COAT: ALKYD PRIMER, 2nd & 3rd COATS: ALKYD GLOSS.
5. **COLOURS:**
OFF-WHITE: GENERAL PAINT 4598W OR BENJAMIN MOORE 16-11.
BLACK: ANY BLACK STANDARD.
6. **TYPOGRAPHY:**
ALL TEXT - HELVETICA, UPPER CASE
"END OF CONSTRUCTION" - BOLD
"THANK YOU...WITH CARE" - BOLD, CONDENSED
"DEPARTMENT OF TRANSPORTATION" - LIGHT



SD-200-02-53

**END OF
CONSTRUCTION**

Date: DEC 1995

Revised: MARCH 2002

Approved

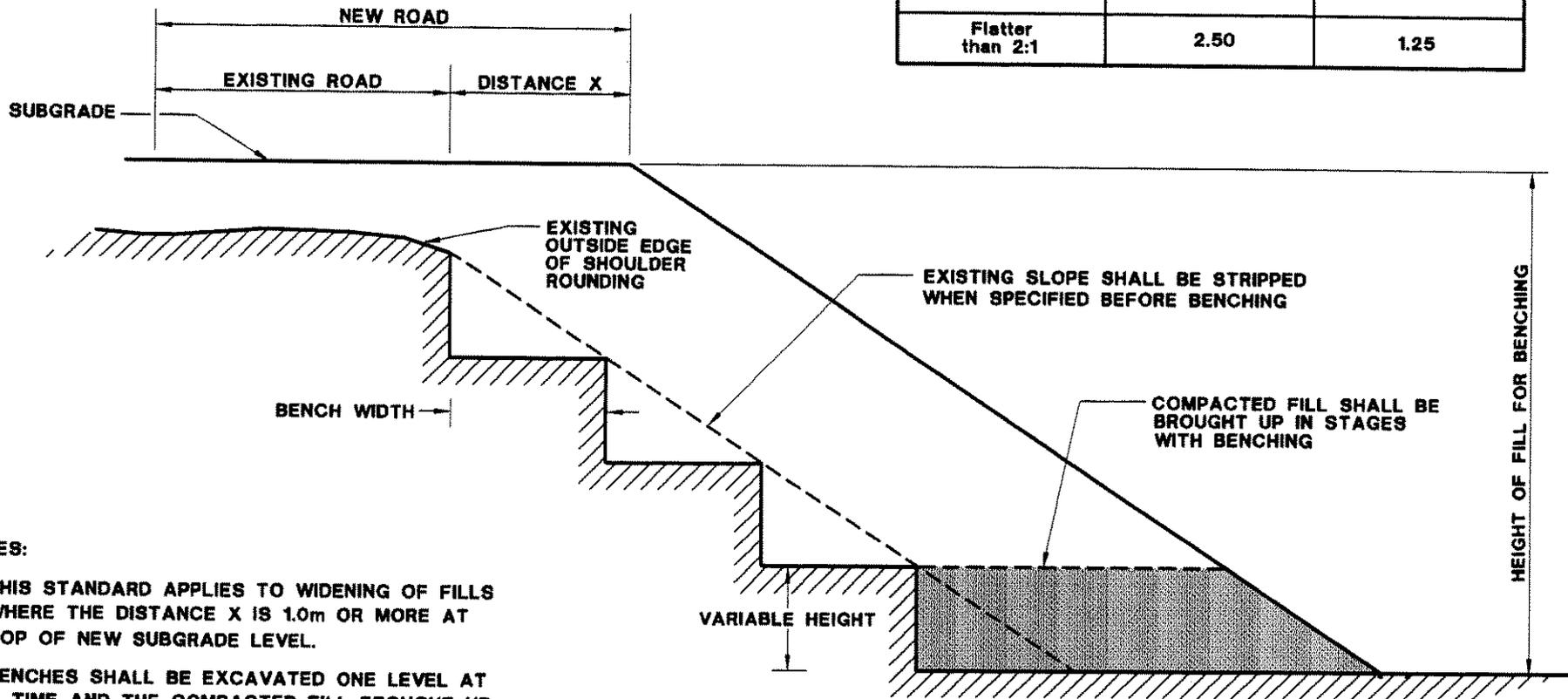
K. K. Hood

Director
Highways Division

APR 21 2005

Date

| WIDTH OF BENCHES (m) | | |
|----------------------|--------------------------|----------------------|
| EXISTING SLOPES | FILLS OF 3.5m OR GREATER | FILLS LESS THAN 3.5m |
| 2:1 | 1.25 | 0.80 |
| Flatter than 2:1 | 2.50 | 1.25 |



NOTES:

- A) THIS STANDARD APPLIES TO WIDENING OF FILLS WHERE THE DISTANCE X IS 1.0m OR MORE AT TOP OF NEW SUBGRADE LEVEL.
- B) BENCHES SHALL BE EXCAVATED ONE LEVEL AT A TIME AND THE COMPACTED FILL BROUGHT UP BEFORE THE NEXT BENCHING LEVEL IS EXCAVATED.
- C) ALL DIMENSIONS ARE SHOWN IN METRES UNLESS OTHERWISE SHOWN.



SD-300-06-01

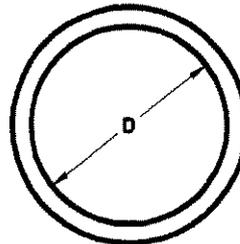
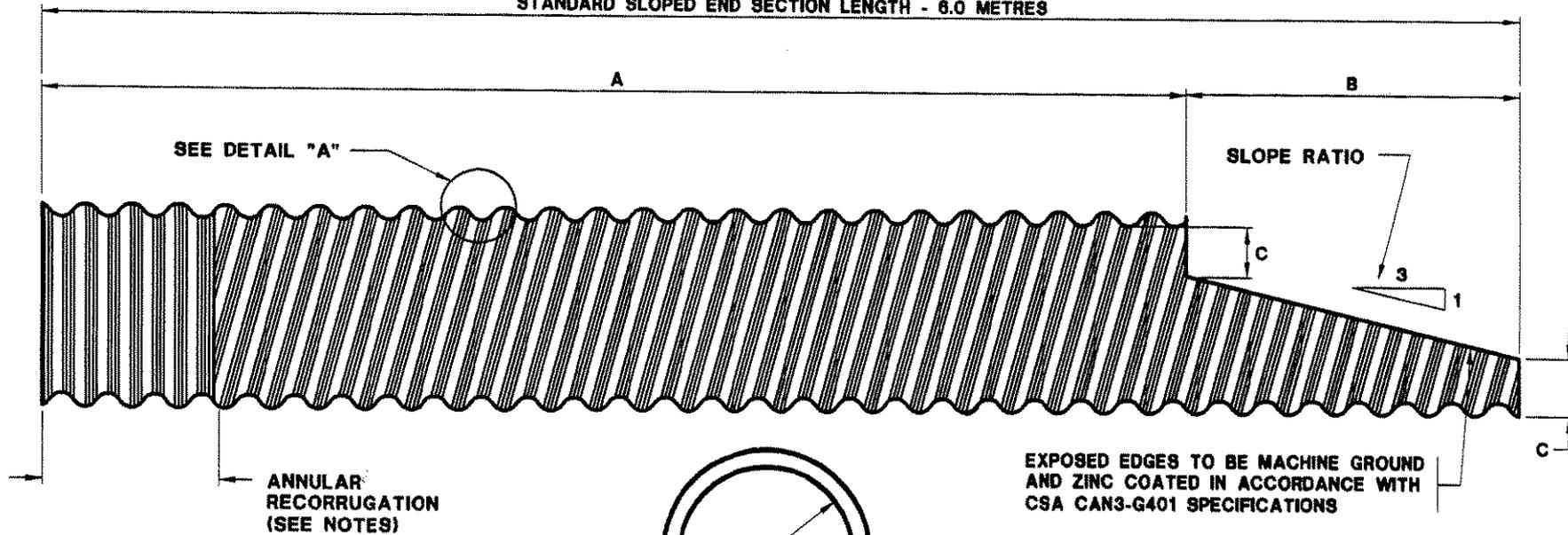
BENCHING FOR EMBANKMENT WIDENING

Date: DEC 1995 Revised: APRIL 2005

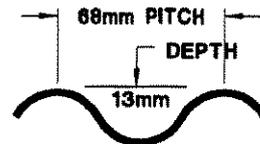
Approved
K. A. Wood
Director
Highways Division

APR 21 2005
Date

STANDARD SLOPED END SECTION LENGTH - 6.0 METRES



END SECTION



DETAIL "A"
CORRUGATION PROFILE

EXPOSED EDGES TO BE MACHINE GROUND AND ZINC COATED IN ACCORDANCE WITH CSA CAN3-G401 SPECIFICATIONS

NOTES:

- 1) THE SUPPLY AND FABRICATION OF ALL GALVANIZED CORRUGATED STEEL PIPE (C.S.P.) SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CANADIAN STANDARDS ASSOCIATION CAN3-G401 SPECIFICATIONS.
- 2) ON PIPE DIAMETERS OF 1000mm OR GREATER, LOCK SEAMS TERMINATING AT THE CUT EDGES OF SLOPES OR SQUARE ENDED SECTIONS SHALL HAVE A 50mm LENGTH FILLET WELD RUN ALONG THE LOCK SEAM AT EACH CUT EDGE.
- 3) THE HELICALLY CORRUGATED PIPE SHALL HAVE THE PIPE ENDS RECORRUGATED TO PROVIDE ANNULAR CORRUGATIONS FOR COUPLING PURPOSES (AS SHOWN). THE MINIMUM LENGTH WITH ANNULAR CORRUGATIONS SHALL BE 300mm FOR PIPE DIAMETERS OF 900mm OR LESS AND 600mm FOR PIPE DIAMETERS GREATER THAN 900mm.
- 4) THE COUPLER SHALL BE AN ANNULAR CORRUGATED BAND TYPE WITH A MINIMUM OF 3 BOLTS PER COUPLER FOR PIPE DIAMETERS OF 800mm OR GREATER.

| INSIDE DIAMETER 'd' mm | SLOPE RATIO X:Y | "A" Metre | "B" Metre | "C" mm | WALL THICKNESS mm |
|---------------------------|--------------------|--------------|--------------|-----------|----------------------|
| 600 | 3:1 | 5.10 | 0.90 | 150 | 2.8 |
| 700 | 3:1 | 4.80 | 1.20 | 150 | 2.8 |
| 800 | 3:1 | 4.80 | 1.20 | 200 | 2.8 |
| 900 | 3:1 | 4.50 | 1.50 | 200 | 2.8 |
| 1000 | 3:1 | 4.35 | 1.65 | 225 | 2.8 |
| 1100 | 3:1 | 4.05 | 1.95 | 225 | 2.8 |
| 1200 | 3:1 | 3.75 | 2.25 | 225 | 2.8 |
| ≥1500 | 3:1 | 3.00 | 3.00 | 250 | 3.5 |