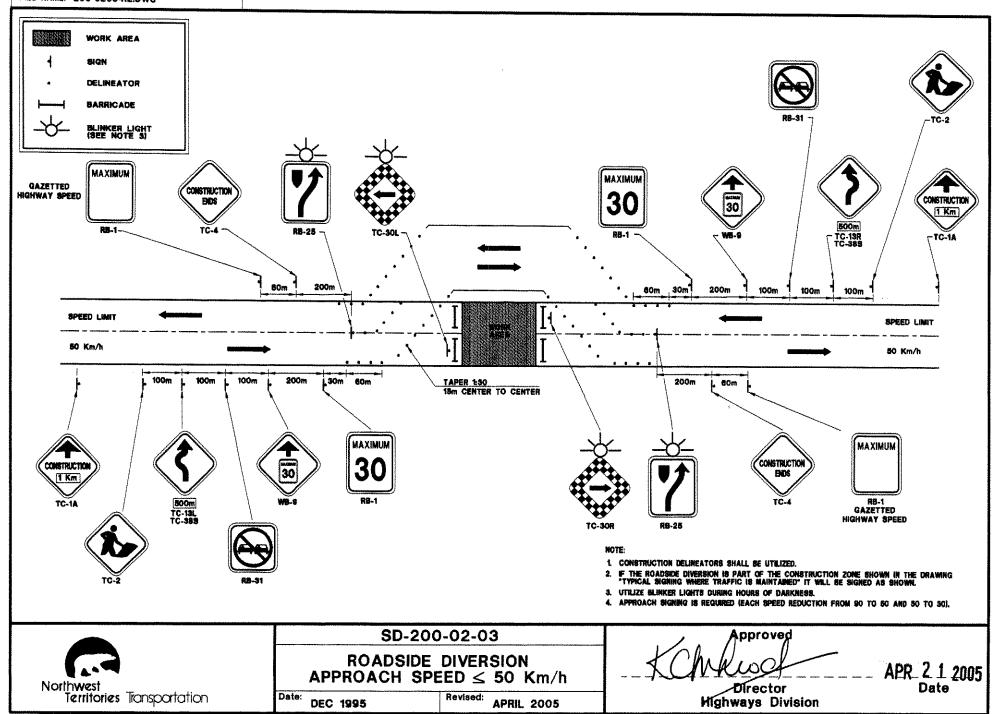
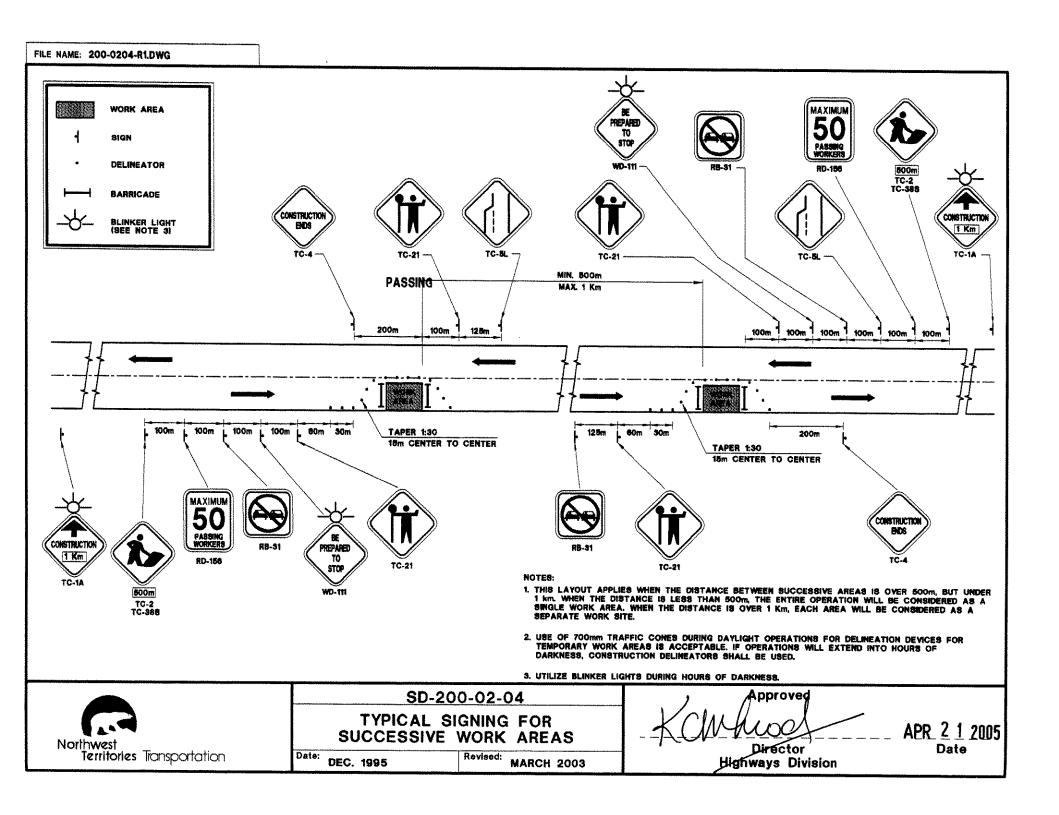
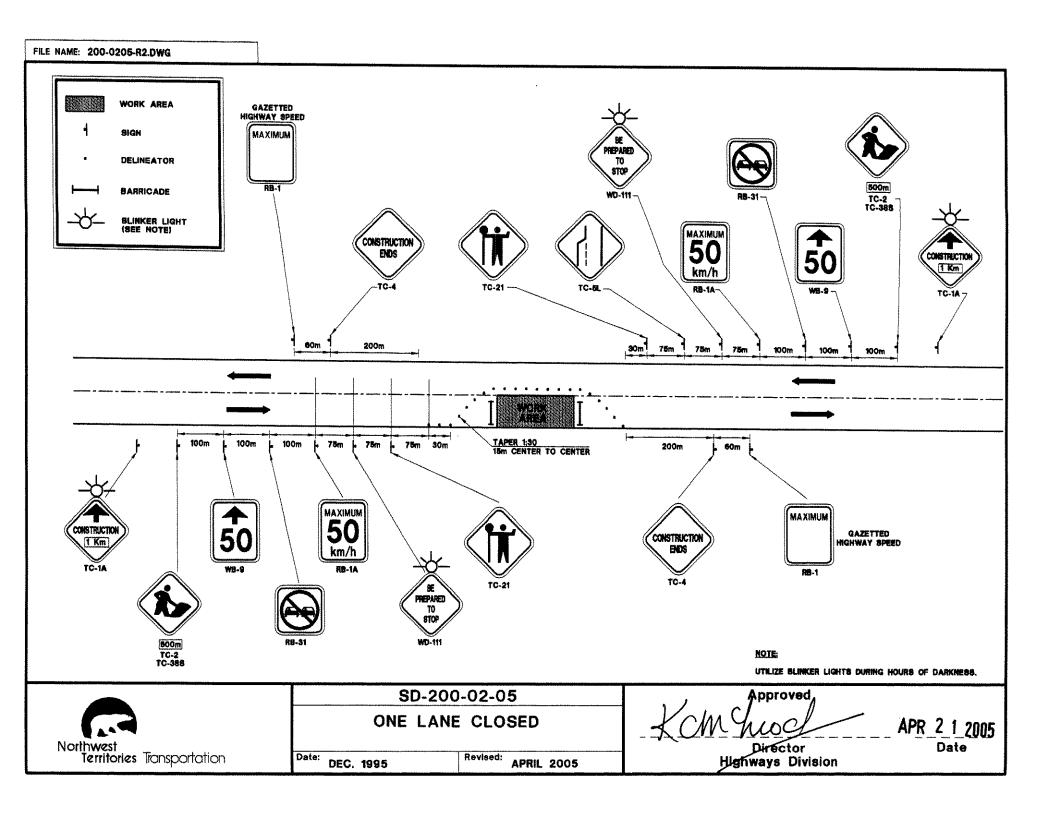
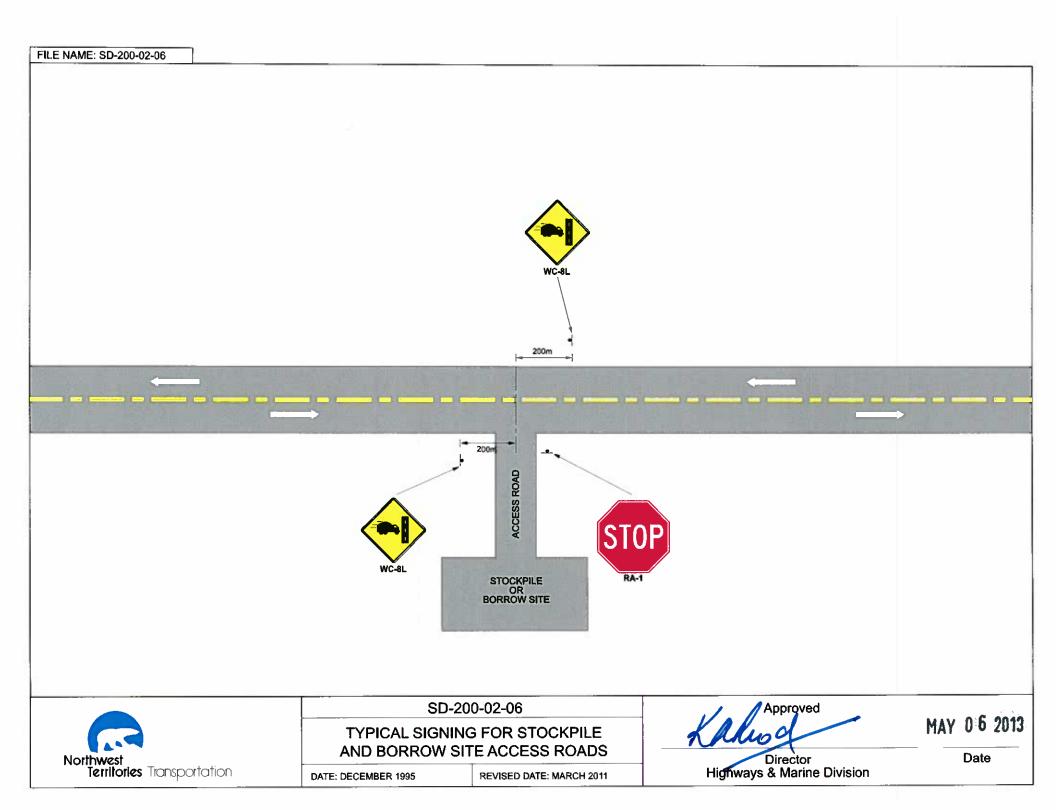


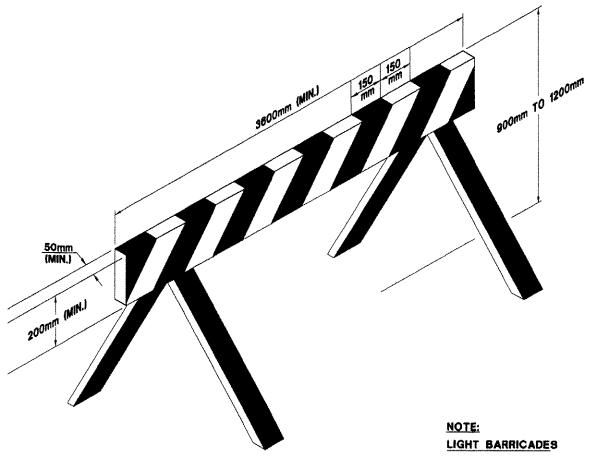
FILE NAME: 200-0202-R2.DWG **WORK AREA** SIGN DELINEATOR BARRICADE BLINKER LIGHT (BEE NOTE 2) TC-13L MAXIMUM MAXIMUM **MAXIMUM** GAZETTED CONSTRUCTION 50 HIGHWAY SPEED 50 CONSTRUCTION EID5 1 Km R8-25 TC-IA 125m 200m 60m 30m 100m 100m 100m 100m 200m SPEED LIMET SPEED LIMIT 90 Km/h 90 Km/h 100m 200m 100m [100m [100m [30m 60m TAPER 1:30 125m 15m CENTER TO CENTER MAXIMUM MUMIXAM MAXIMUM 50 CONSTRUCTION CONSTRUCTION ENDS TKm RB-1 GAZETTED HIGHWAY SPEED RB-1 TC-4 TC-1A R8-25 CONSTRUCTION DELINEATORS SHALL BE UTILIZED. 500m TC-13L TC-388 2. UTILIZE BLINKER LIGHTS DURING HOURS OF DARKNESS. SD-200-02-02 Approved ROADSIDE DIVERSION APR 2 1 2005 APPROACH SPEED ≥ 90 Km/h Northwest Territories Transportation Date Director Date: Revised: Highways Division DEC 1995 **APRIL 2005**











LIGHT BARRICADES MAY BE USED FOR WORKS OF SHORT DURATION TO PROVIDE THE CLOSURE OF A TRAFFIC LANE OR ROADWAY. THIS TYPE OF BARRICADE SHALL HAVE ALTERNATE ORANGE AND BLACK STRIPES AT 45°. ALL STRIPES SHALL BE 150mm IN WIDTH AND SHALL BE REFLECTORIZED OR ILLUMINATED TO INDICATE THE SAME COLOR AND SHAPE BY NIGHT AS BY DAY.



SD-200-02-08

LIGHT BARRICADE

Date: DEC. 1995

Revised: MARCH 2001

Approved

APR 2 1 2005

Director Highways Division

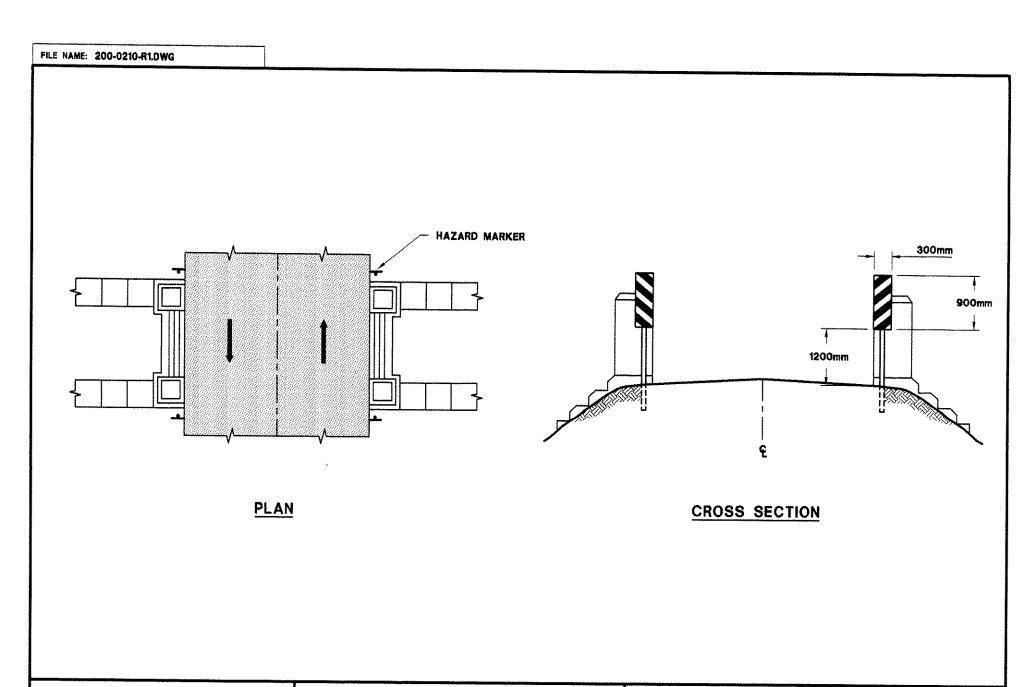
FILE NAME: 200-0209-R1.DWG 300mm 900mm BLACK AND - REFLECTORIZED YELLOW TRAVEL LANE -1200mm SD-200-02-09 Approved HAZARD MARKER



DEC. 1995

Revised: MARCH 2001

Director Highways Division





SD-200-02-10

TYPICAL HAZARD MARKER LOCATION AT BRIDGE ENDS

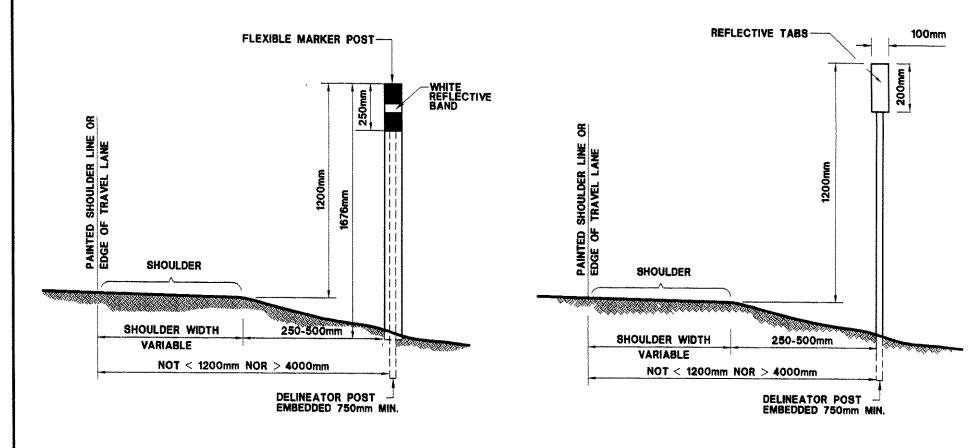
Dec 1995

Revised: MARCH 2002

Approved

APR 2 1 2005

Director Highways Division

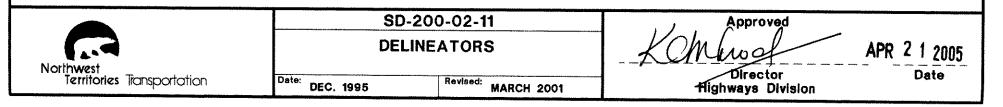


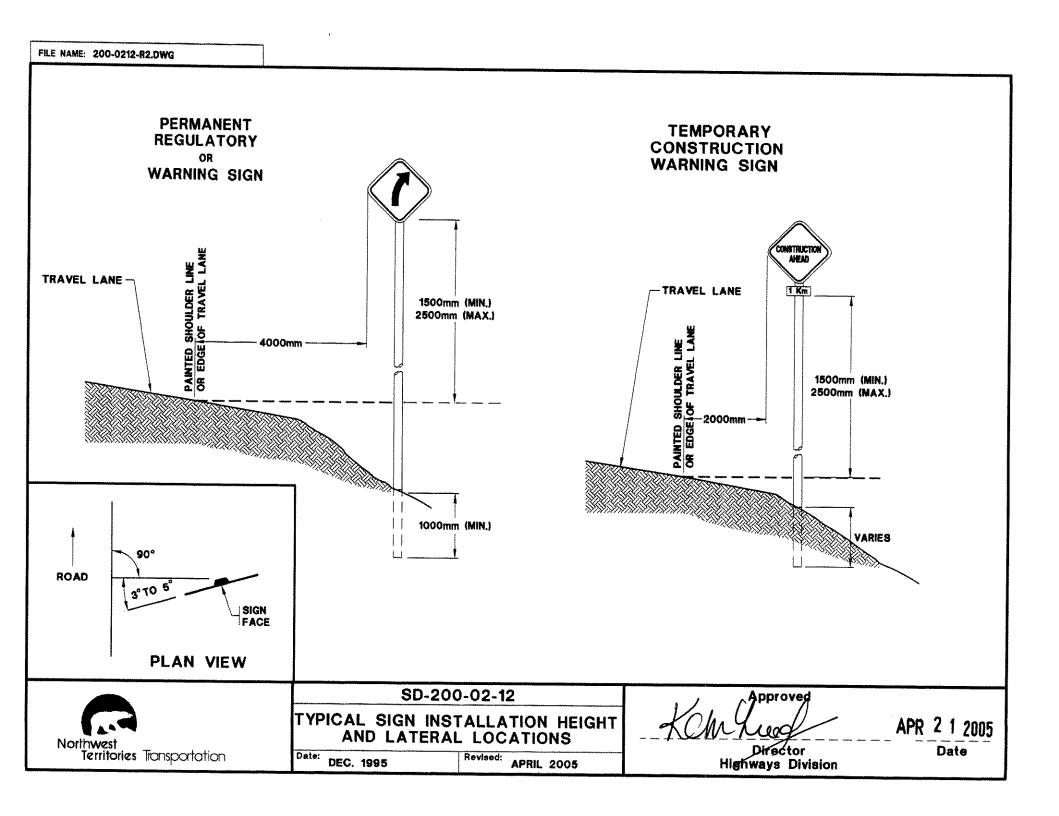
NOTE:

- 1. DELINEATOR POSTS SHALL BE STANDARD STEEL HAT SECTION WEIGHING AT LEAST 2.0 ib./ft. BEFORE PUNCHING.
- 2. FLEXIBLE MARKER POST SHALL HAVE A NOMINAL OUTSIDE DIAMETER OF 89mm AND A MINIMUM WALL THICKNESS OF 3.81mm.

NOTE:

- 1. COLOUR OF REFLECTIVE TABS SHALL BE WHITE ON RIGHT OF ROAD, YELLOW ON LEFT SIDE.
- 2. DELINEATORS SHALL BE HIGH INTENSITY REFLECTIVE MATERIAL MOUNTED ON 2mm ALUMINUM SUBSTRATE 2 BOLTS REQ'D
- 3. INSTALLATION WARRANTS AS PER UTCD MANUAL.





SPECIFICATIONS

1. MATERIALS POSTS SHALL BE PRODUCED FROM HIGH STRENGTH RAIL STEEL ACCORDING TO CSA STANDARD SPECIFICATION GS0.12, GRADE 400.

2. Finish Base Post and sign post shall be galvinized, as per CSA STANDARD SPECIFICATION G164M.

3. BASE POST THE WEIGHT OF EACH BASE POST BEFORE PUNCHING SHALL BE 2.50 lb/ft, BASE POST IS TO BE PUNCHED WITH EIGHTEEN 0.438*

2.50 ib/ft, Base Post 18 To be punched with Eighteen 0.438" DIAMETER HOLES ON A 1.0" CENTER, EXCEPT FOR THE FIRST AND FIFTH HOLES WHICH ARE TO BE 0.438" x 0.500" SLOTS, WITH THE HOLE BEING 1.0" FROM TOP. BASE SHALL BE POINTED AND

1.0 NETRE IN LENGTH.

4. SIGN POST THE WEIGHT OF EACH SIGN POST BEFORE PUNCHING SHALL BE 2.50 lb/ft, SIGN POST IS TO BE PUNCHED WITH 0.458" DIAMETER

HOLES ON A 1.0" CENTER, FULL LENGTH. FIRST AND LAST HOLES

SHALL BE 1.0" FROM THE ENDS.

5. RETAINER MATERIAL SHALL BE AISI 1020 STEEL GALVANIZED TO CSA STANDARD SPECIFICATION 18PACER STRAPI G164M, DIMENSIONS ARE AS FOLLOWS: 17.0"(L) x 1.0" (W) x 0.25"(T)

6. HARDWARE BOLTS 5/8" x 16 UNC x 2.00"(L), HEX HEAD, INTEGRAL FLANGE, CONFORMING TO ASTM SPECIFICATION NUMBER ASS4, GRADE BD

NUTS 3/8" x 16 UNC, HEX HEAD INTEGRAL FLANGE, CONFORMING

TO ASTM SPECIFICATION NUMBER ASSS, GRADE DH

LOCKWASHERS 3/8" EXTRA DUTY HELICAL SPRING

HOTE: BOLTS, NUTS, AND LOCKWASHERS SHALL BE MECHANICALLY

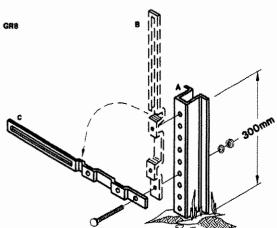
GALVANIZED.

ALL BOLTS 3/8" - 16UNC x 2" - GR8

1. A - DRIVE BASE POST TO WITHIN SOCIETY OF GROUND LEVEL

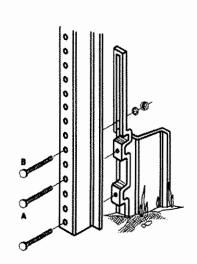
B-ATTACH RETAINERBPACER STRAP WITH
ONE 3/8" - 10 UNC
X 2.0" BOLT, NUT AND
LOCKWASHER THROUGH
BOTTOM HOLE OF STRAP
AND SIXTH HOLE OF
BASE POST. SMALL TOP
SLOT OF STRAP SHOULD
LINE UP WITH TOP HOLE
IN BASE POST

C-ROTATE STRAP 90"



3. A - ATTACH SIGN POST WITH TWO 3/8" - 16 UNC x 2.0" BOLTS, NUTS, AND LOCKWASHERS IN BOTTOM AND FIFTH HOLES. (THESE CORRESPOND WITH SMALL SLOTS IN STRAP.)

> B - IMBERT ONE 3/8" - 16 UNC x 2.0" BOLT THROUGH SIGN POST AND SOTTOM ON LONG SLOT IN STRAP, TIGHTEN NUT AND LOCK-WASHER SNUGLY BEFORE COMPLETELY TIGHTENING MIDDLE BOLTS.

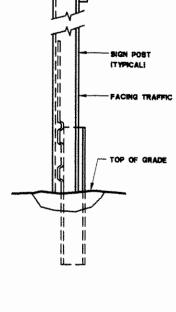


2. A - DRIVE BASE POST TO 125mm ABOVE

B - ROTATE STRAP TO

VERTICAL POSITION

GROUND



SIGN PANEL

[TYPICAL]



SD-200-02-13

BREAKWAY SIGN POST (TYPICAL INSTALLATIONS)

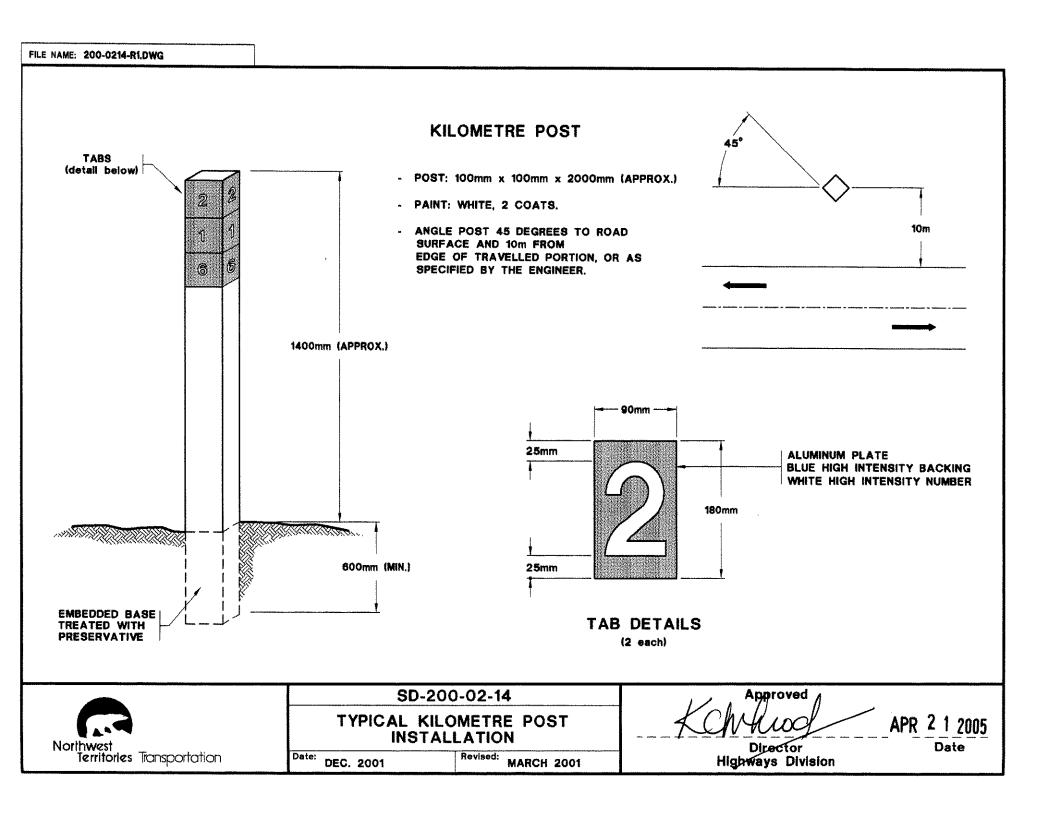
Date: DEC. 1995

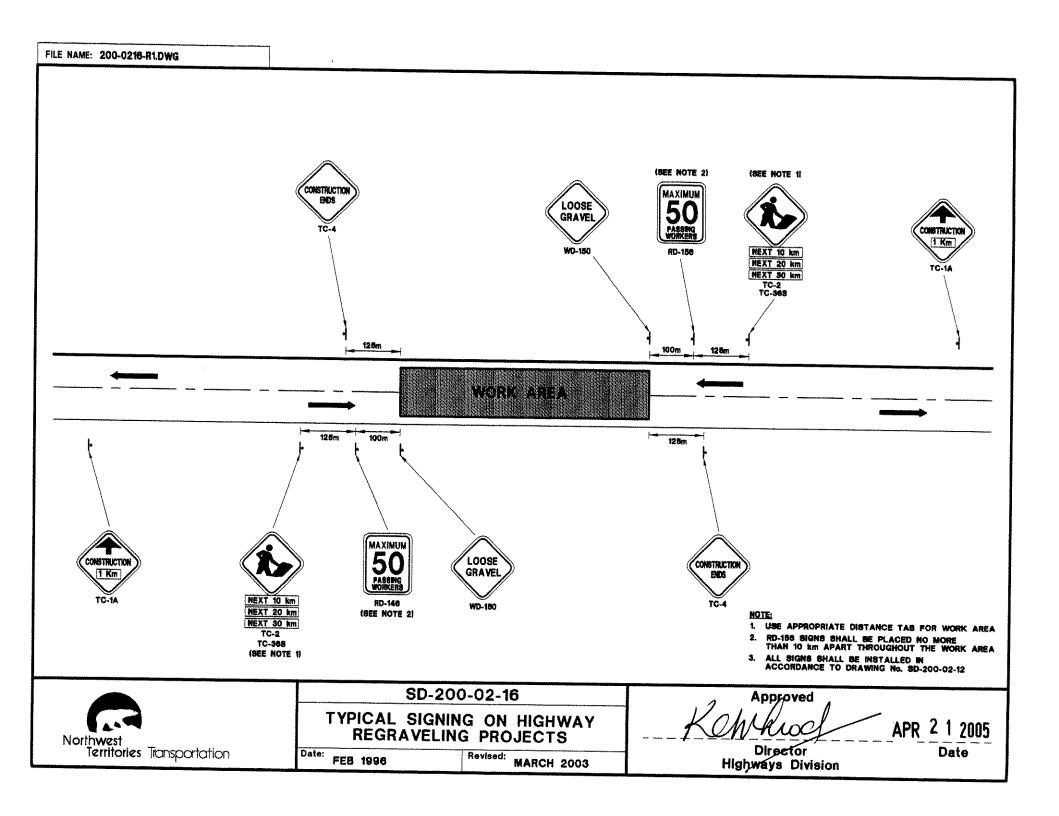
Revised: MARCH 2001

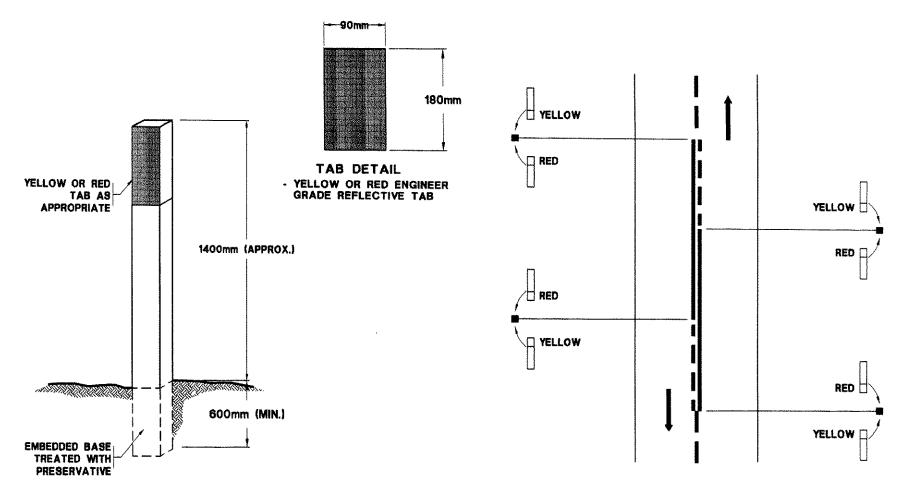
Mod

APR 2 1 2005

Director Highways Division







POST

- POST: 100mm x 100mm x 2000mm (APPROX.)

- PAINT: WHITE, 2 COATS.

- INSTALL POST PARALLEL TO ROAD SURFACE AND 15m FROM SHOULDER LINE, OR AS SPECIFIED BY THE ENGINEER. YELLOW - MARKS BEGINNING OF RESTRICTION RED - MARKS END OF RESTRICTION



SD-200-02-17

ASPHALTIC SURFACE PAVEMENT MARKINGS - PREMARKING POSTS

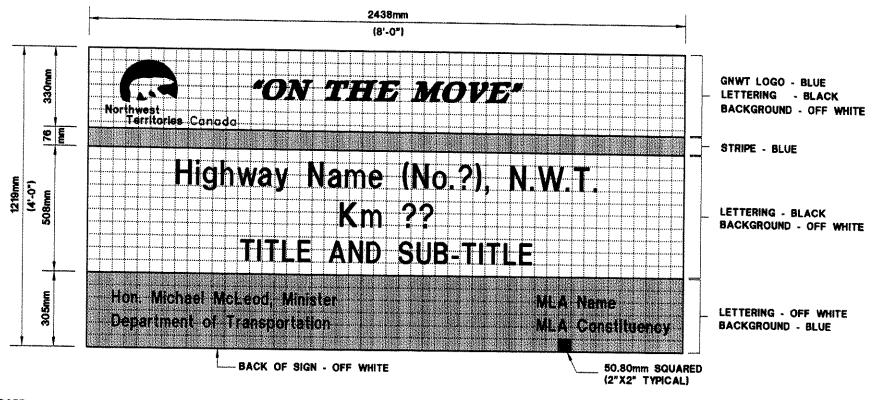
Date: FEB 2003

Revised:

Kanacos -

APR 2 1 2005

Director Highways Division



NOTES:

1. SIGNBOARD: 19mm THICK 1219

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:

DEC 1995

BLUE: GENERAL PAINT 438D OR BENJAMIN
MOORE 9-8 OR PANTONE No. 299
OFF-WHITE: GENERAL PAINT 4598W OR
BENJAMIN MOORE 16-11.
BLACK: ANY BLACK STANDARD.

Revised: APRIL 2005

8. TYPOGRAPHY:

"ON THE MOVE" - CHALLENGE BOLD, UPPER CASE:

OTHER - AVANT GARDE MEDIUM-UPPER & LOWER CASE.

7. SPACING:

MAXIMUM OF FOUR DEPT. SIGNATURES PLACED 229mm APART.



SD-200-02-51

PROJECT SIGN

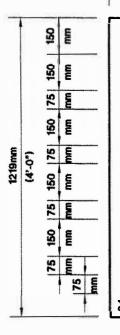
Director Highways Division

Approved

APR 2 1 2005

2438mm

(8'-0")



NEXT XX KMS UNDER CONSTRUCTION OBEY ALL SIGNS AND SIGNALS

LETTERING - BLACK BACKGROUND - ORANGE HIGH INTENSITY REFLECTIVE SHEETING

NOTES:

1. SIGNBOARD:
19mm THICK 1219mm × 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.

BACK OF SIGN - OFF WHITE

DEPARTMENT OF INFRASTRUCTURE

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

APR 2 1 2005

Director

Highways Division

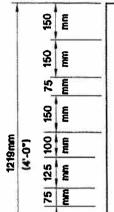
Date

Northwest
Territories Transportation

FILE NAME: 200-0253-R1.DWG

2438mm

(8'-0")



END OF CONSTRUCTION

THANK YOU FOR YOUR COOPERATION DRIVE WITH CARE

DEPARTMENT OF INFRASTRUCTURE

LETTERING - BLACK BACKGROUND - 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.

BACK OF SIGN - OFF WHITE

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

Territories Transportation

SD-200-02-53

END OF CONSTRUCTION

Date: DEC 1995 Revised: MARCH 2002

Rioways Division

FILE NAME: 200-0254-R1.DWG

Ē

8

(4'-0")

2438mm (8'-0")

WARNING
SMOKE HAZARD
NEXT XX KILOMETRES
DRIVE WITH CARE

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.

- 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.

DEPARTMENT OF TRANSPORTATION

- 5. PAINT: THREE COAT ALKYD TYPE WITHOUT SILICONE ADDITIVES, 1st COAT: ALKYD PRIMER, 2nd & 3rd COATS: ALKYD GLOSS.
- 8. 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.

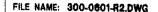
Northwest Territories Tiansportation SD-200-02-54

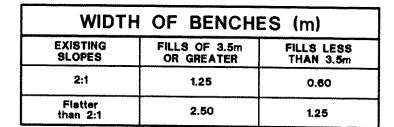
WARNING SIGN SMOKE

DEC 1995 Revised: MARCH 2002

Approved

Director Highways Division APR 2 1 2005



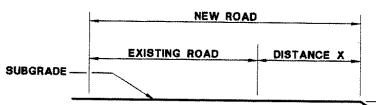


COMPACTED FILL SHALL BE

BROUGHT UP IN STAGES

EXISTING SLOPE SHALL BE STRIPPED

WHEN SPECIFIED BEFORE BENCHING



EXISTING OUTSIDE EDGE OF SHOULDER ROUNDING BENCH WIDTH --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.

	WITH BENCHING
1	Novika media sanda sanda
1///////	
VARIABLE HEIGHT	
<u>t</u>	
VARIABLE HEIGHT	

Northwest Territories Transportation SD-300-06-01

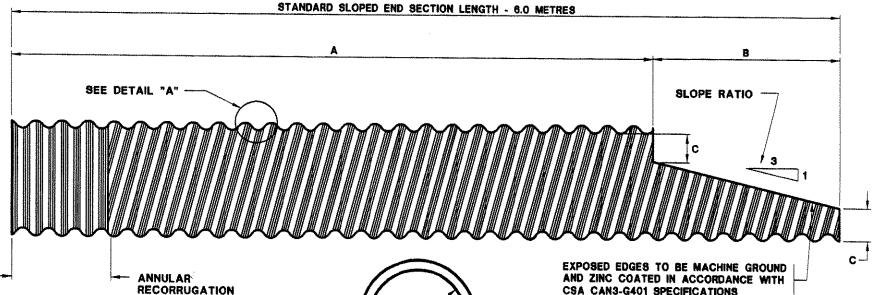
BENCHING FOR EMBANKMENT WIDENING

Date: DEC 1995 Revised: **APRIL 2005** Approved

FOR BENCHING

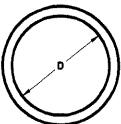
HEIGHT OF

Director Highways Division

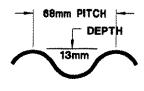


INSIDE DIAMETER 'D 'mm	SLOPE RATIO X:Y	"A" Metre	"B" Metre	"C" mm	WALL THICKNESS mm
600	3:1	5.10	0.90	150	2.8
700	3:1	4.80	1.20	150	2.8
800	3:1	4.80	1.20	200	2.8
900	3:1	4.50	1.50	200	2.8
1000	3:1	4.35	1.65	225	2.8
1100	3:1	4.05	1.95	225	2.8
1200	3:1	3.75	2.25	225	2.8
≩1500	3:1	3.00	3.00	250	3.5

(SEE NOTES)



END SECTION



DETAIL "A" **CORRUGATION PROFILE**

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 CANS-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.



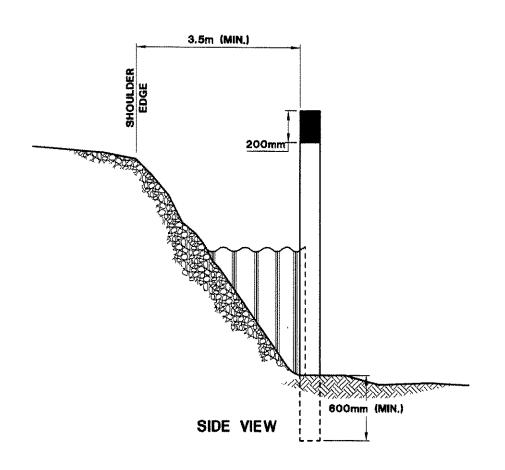
SD-400-01-51

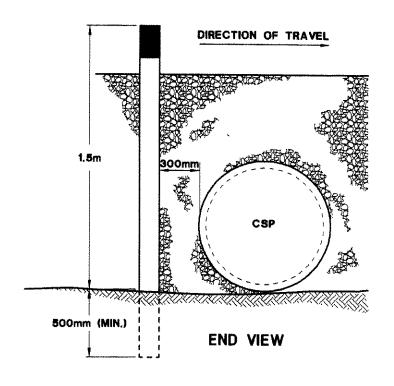
STANDARD SLOPED END SECTIONS (C.S.P. ROUND CULVERTS)

DEC. 1995

Revised: **APRIL 2005** Approved

Director Highways Division





NOTE:

- MARKER POSTS SHALL BE 100mm(4") x 100mm(4") x 2000mm (MIN.) LONG.
- COLOR: WHITE WITH BLACK TOP (200mm).
- MARK ALL THROUGH GRADE STRUCTURES THAT HAVE A VERTICAL HEIGHT OF 2 METRES OR LESS.
- PLACE MARKER 300mm FROM THE CULVERT ON THE LEFT SIDE (WHEN FACING END OF CULVERT) EVEN WITH THE END OF CULVERT.
- MARKER MUST BE AT LEAST 3.5m FROM SHOULDER EDGE.

Northwest Territories	Transportation

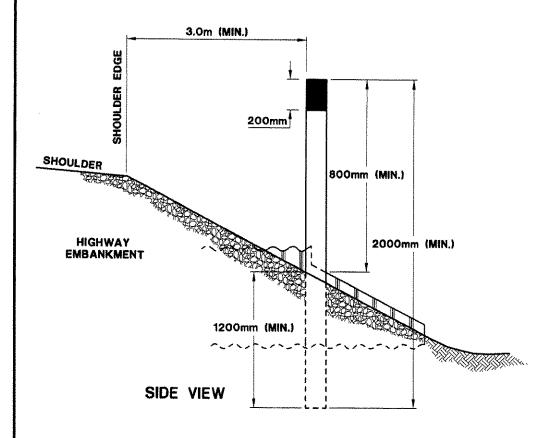
SD-400-01-52

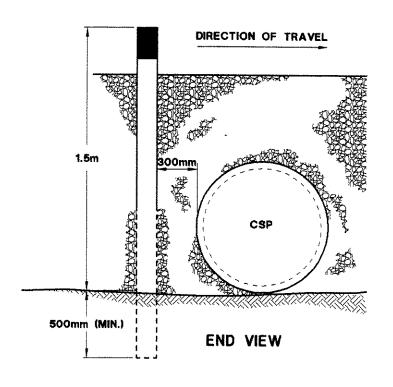
TYPICAL CULVERT MARKER INSTALLATION

Date: DEC 1995 Revised: **APRIL 2005**

Director Highways Division

APR 2 1 2005





NOTE:

- MARKER POSTS SHALL BE 100mm(4") x 100mm(4") x 2000mm (Min.) LONG.
- COLOR: WHITE WITH BLACK TOP (200mm).
- MARK ALL THROUGH GRADE STRUCTURES THAT HAVE A VERTICAL HEIGHT OF 2 METRES OR LESS.
- PLACE MARKER 300mm FROM THE CULVERT ON THE LEFT SIDE (WHEN FACING END OF CULVERT).
- MARKER MUST BE AT LEAST 3.0m FROM SHOULDER EDGE.



SD-400-01-53

TYPICAL SLOPED END CULVERT MARKER INSTALLATION

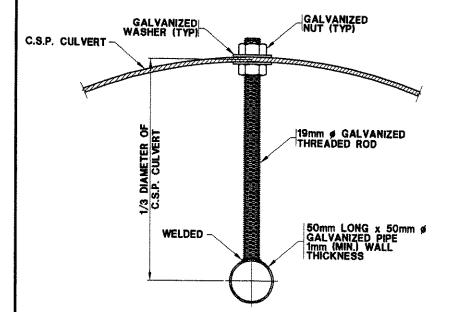
Date: DEC. 1995

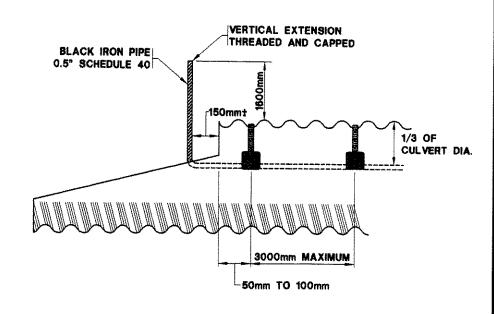
Revised: MARCH 2001

Approved

APR 2 1 2005

Director Highways Division





CROSS-SECTION VIEW

LONGITUDINAL SECTION VIEW



SD-400-01-54

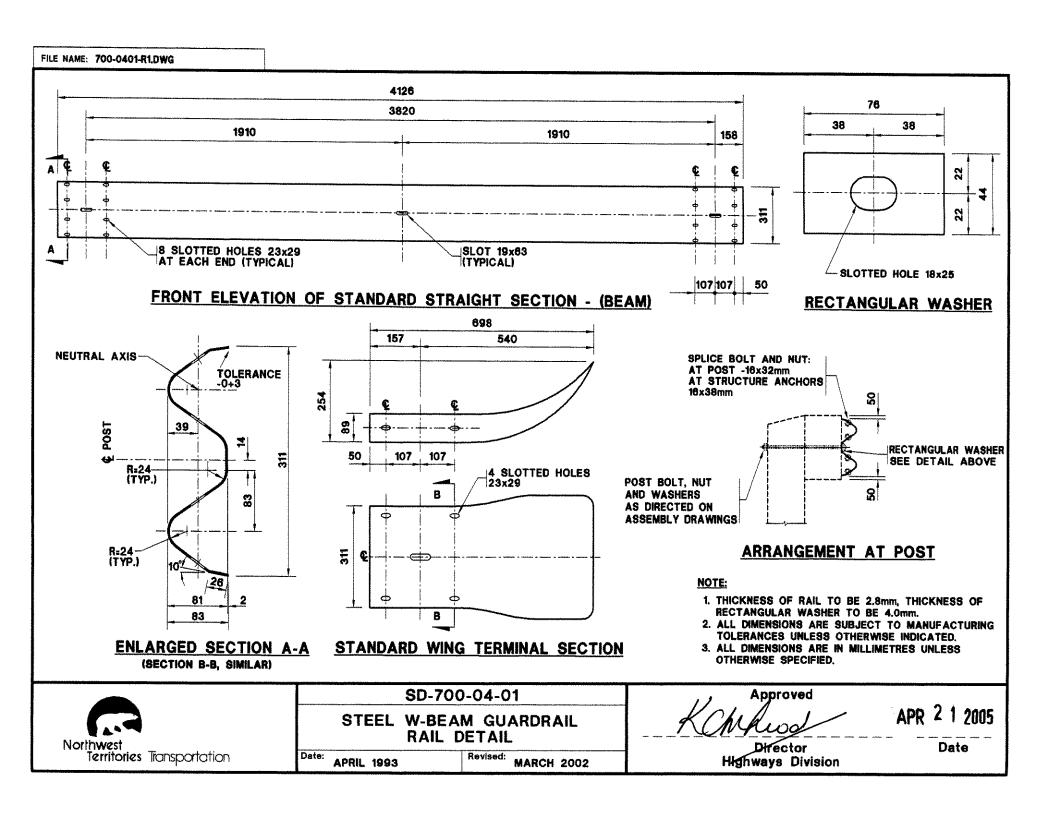
TYPICAL STEAM PIPE AND HANGER DETAIL

Date: MAY 1999

Revised: APRIL 2004

Approved

Director Highways Division APR-2-1-2gns-

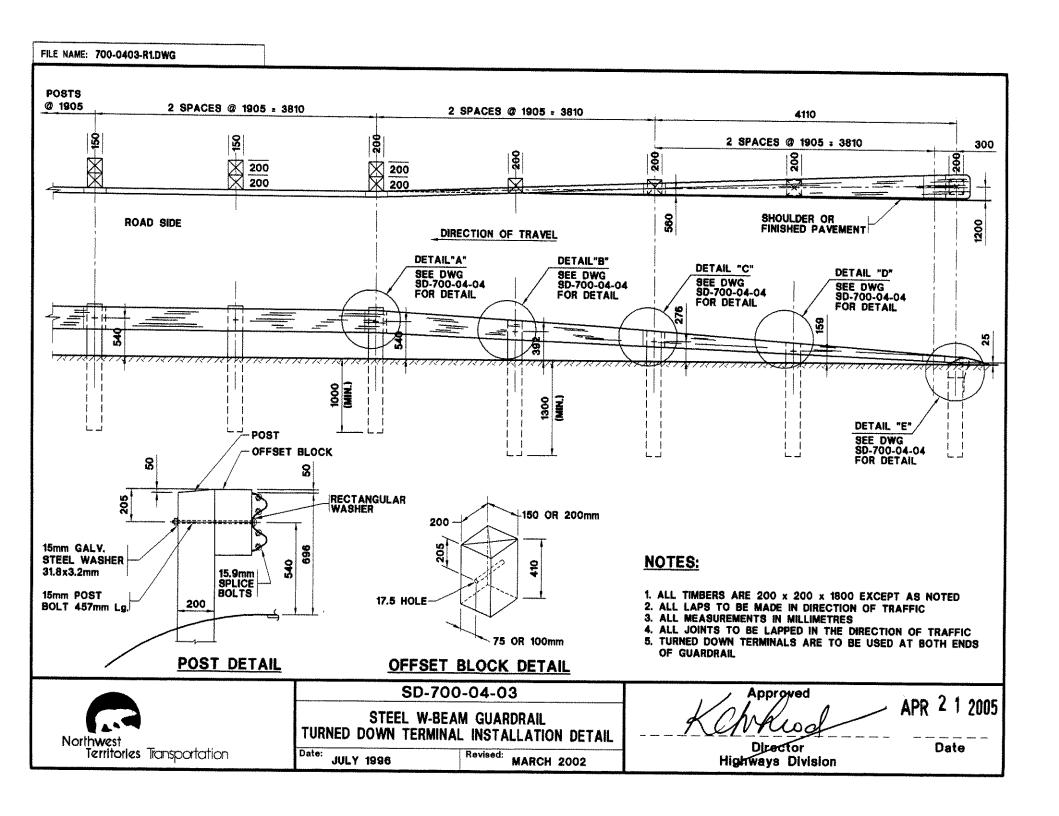




BURIED TERMINALS INSTALLATION DETAIL

Date: **JULY 1994** Revised: MARCH 2002 APR 2 1 2005

Director Highways Division

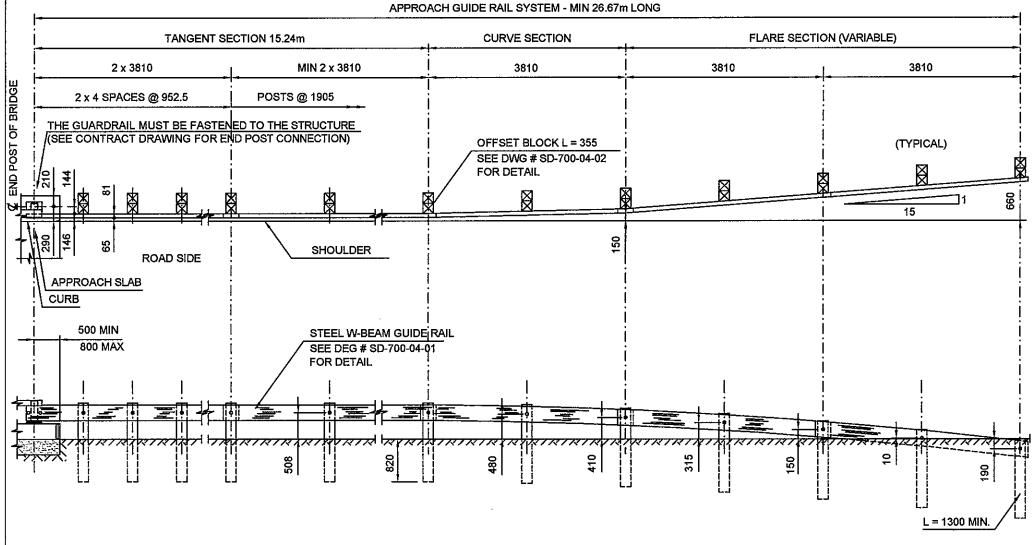




POST CAP DETAILS

Date: JULY 1996 Revised: MARCH 2002

Director Highways Division



NOTES 1. ALL TIMBERS ARE 150 x 200 x 1500 EXCEPT AS NOTED

2. ALL LAPS TO BE MADE IN DIRECTION OF TRAFFIC

3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.



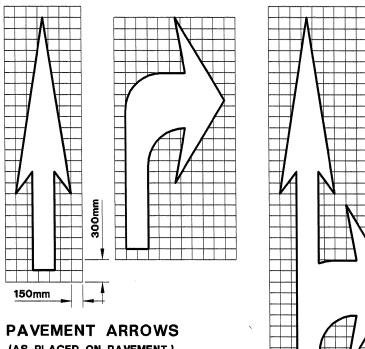
SD-700-04-05
STEEL W-BEAM GUARDRAIL
PLACEMENT AT BRIDGE APPROCHES
(TWO-LANE TRAFFIC)

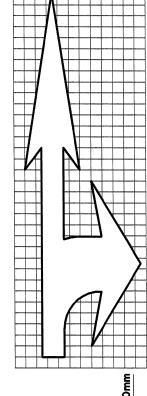
Date: APRIL 2007 Revised:

Approved

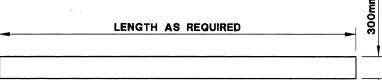
Director

Highways Division





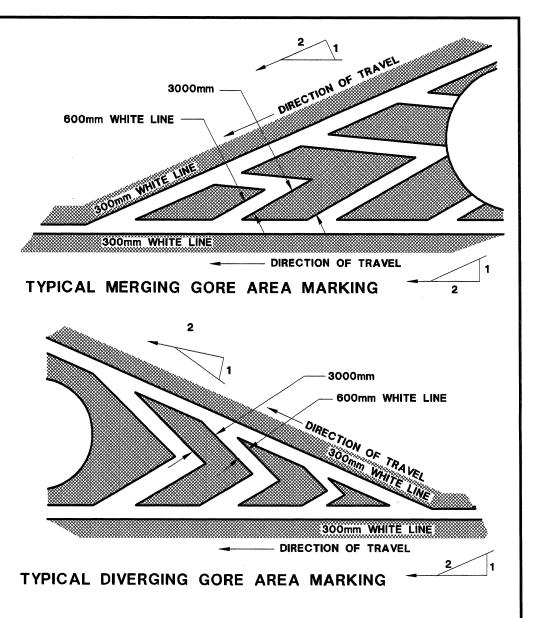
(AS PLACED ON PAVEMENT.)



STOP LINE

NOTE:

ALL MISCELLANEOUS PAINTED ROADWAY MARKINGS SHALL BE WHITE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.





SD-800-01-01

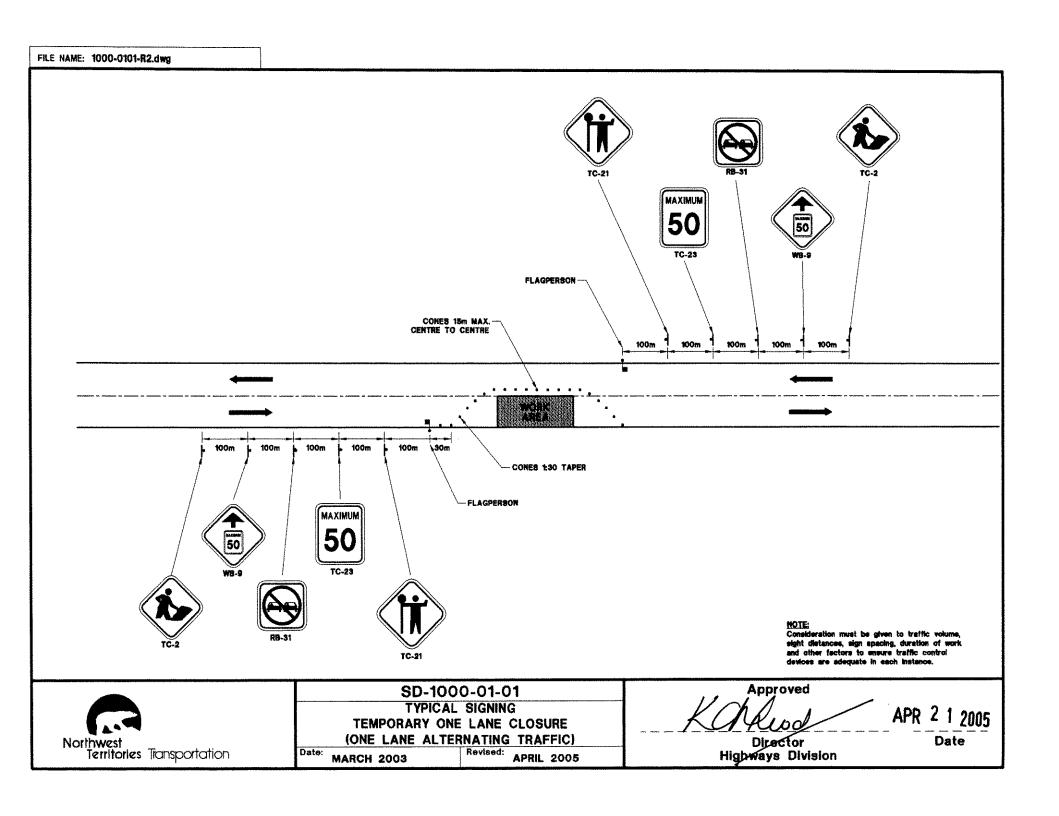
MISCELLANEOUS PAINTED **ROADWAY MARKINGS**

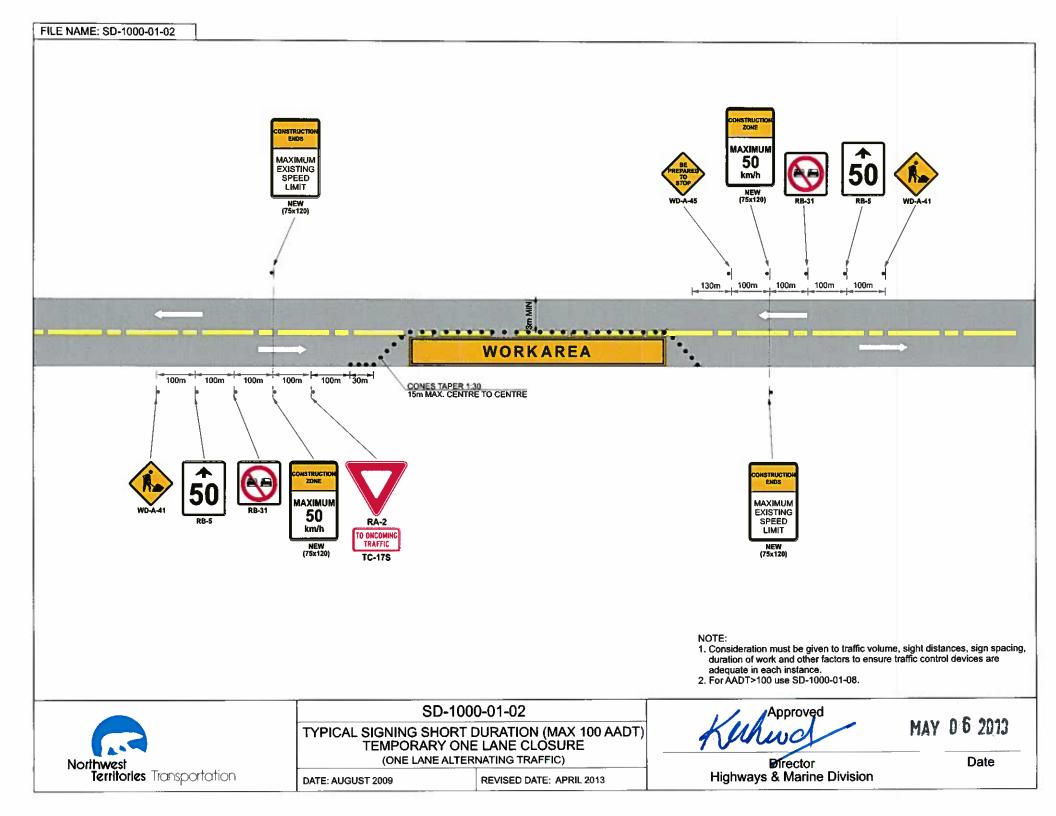
DEC 1995

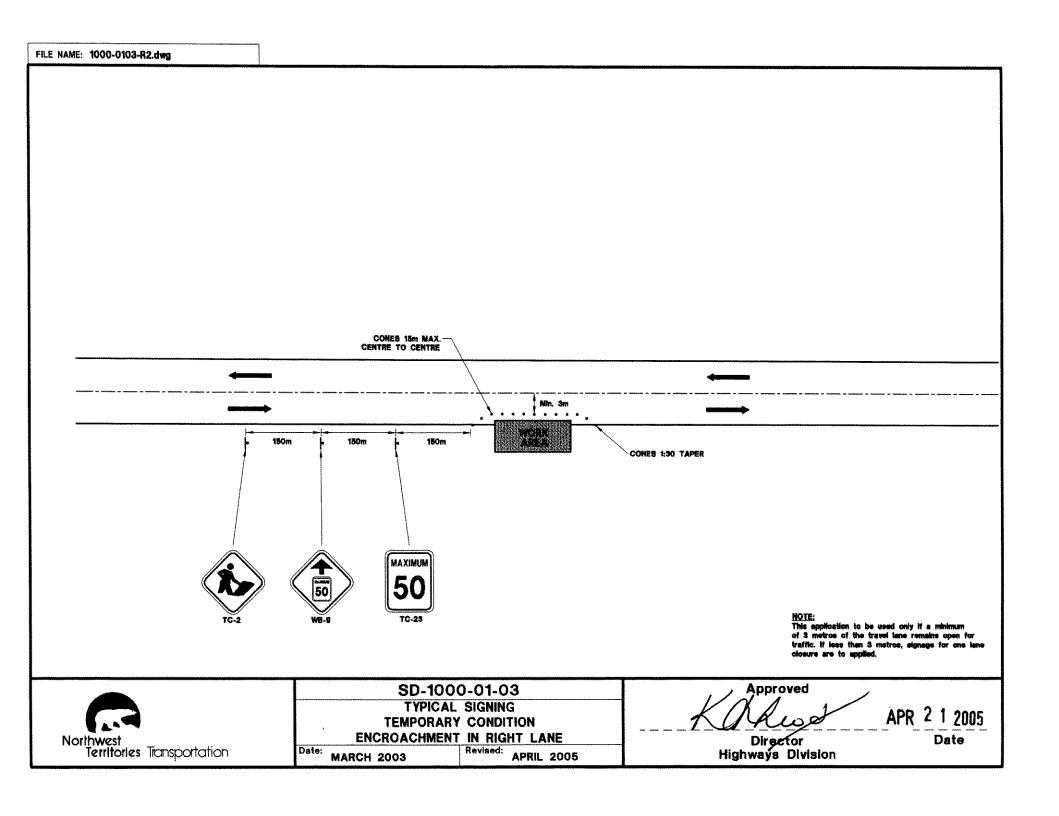
Revised: MARCH 2002

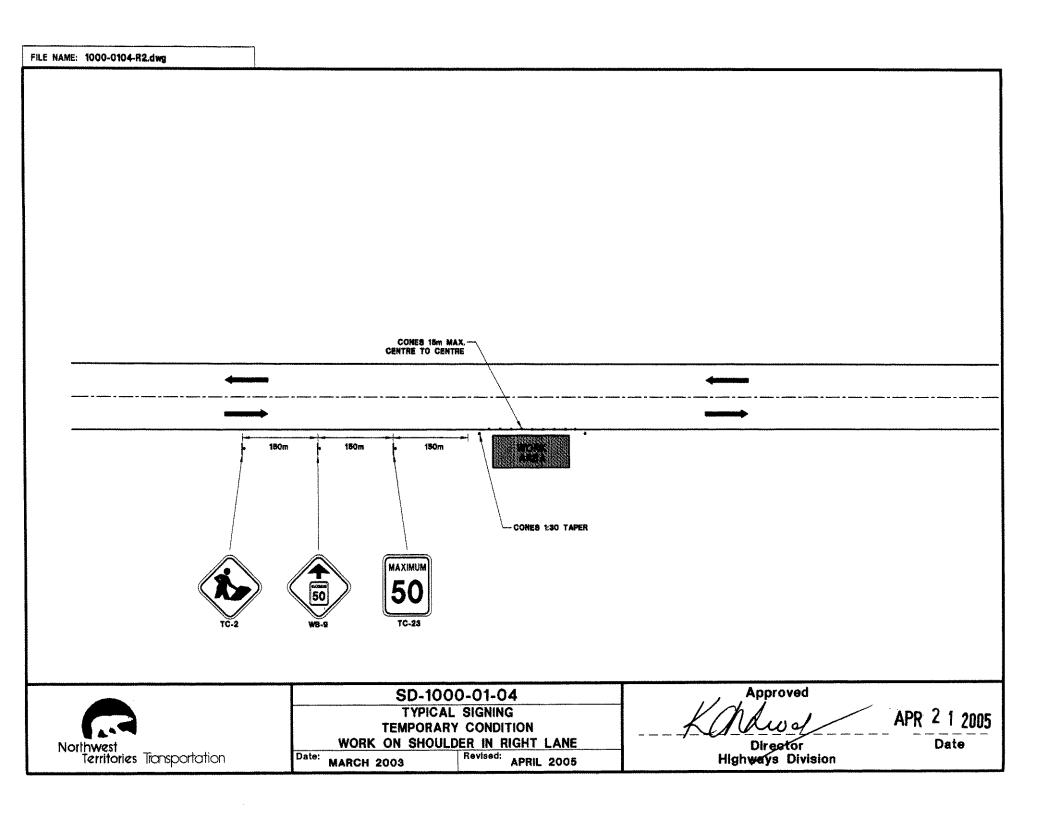
Approved

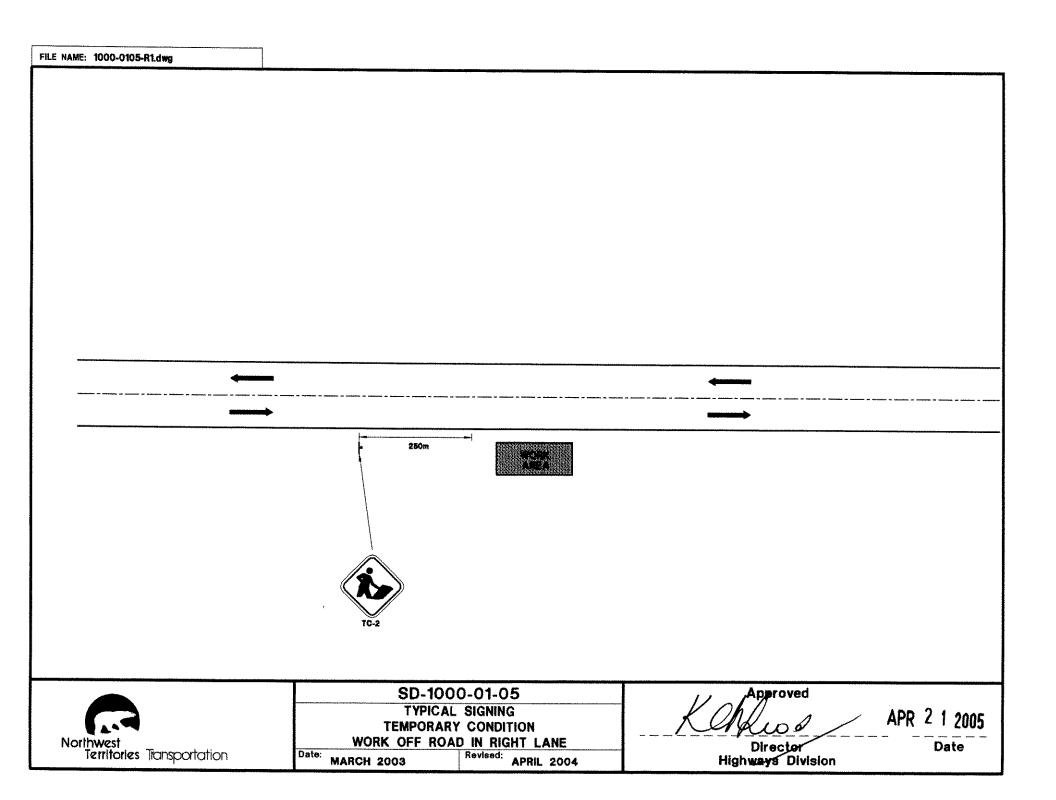
Highways Division

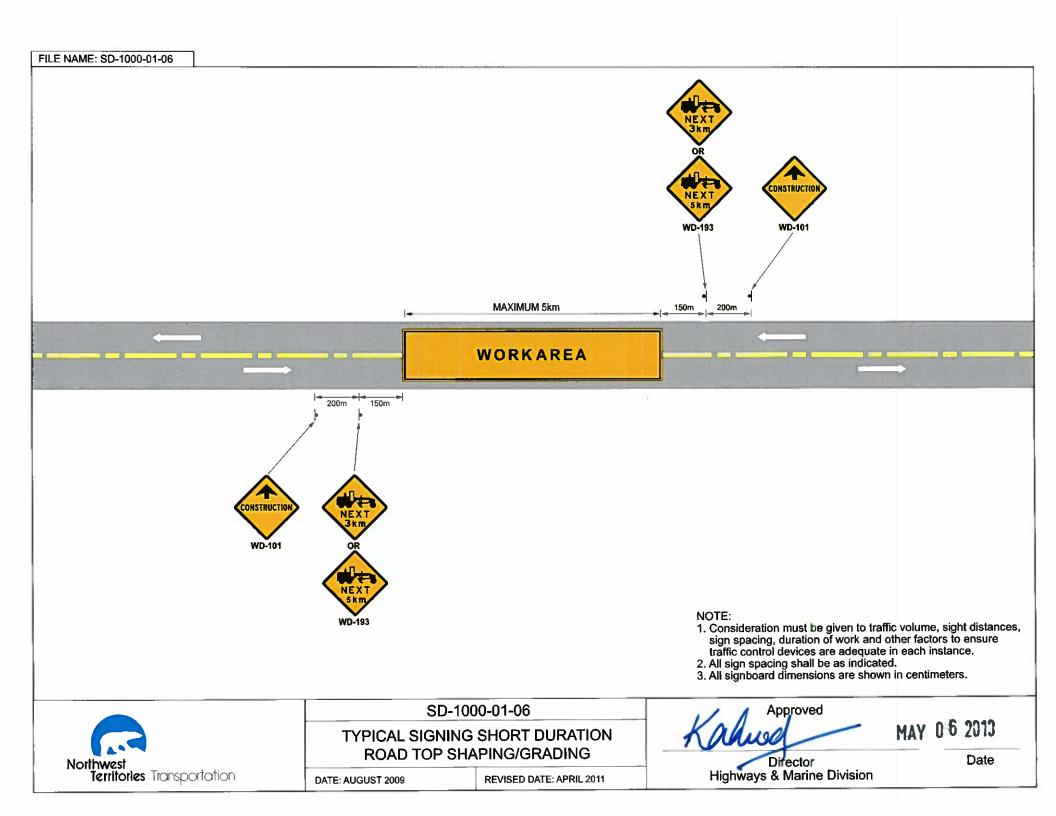


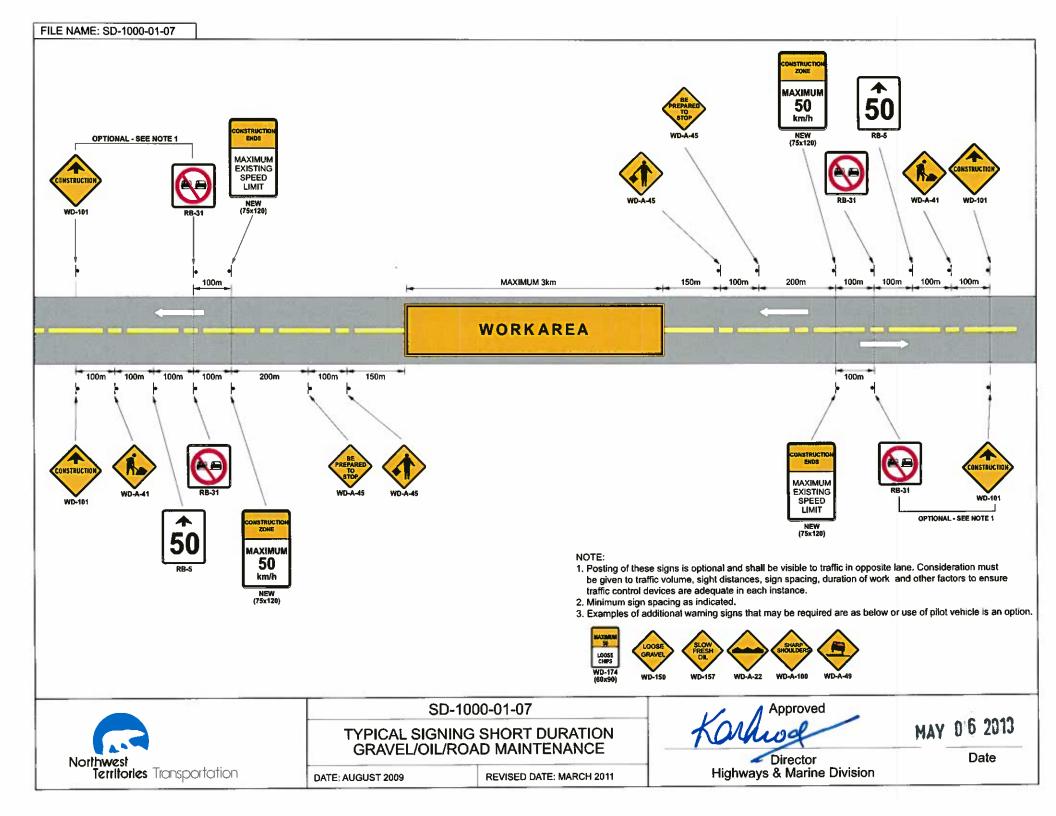


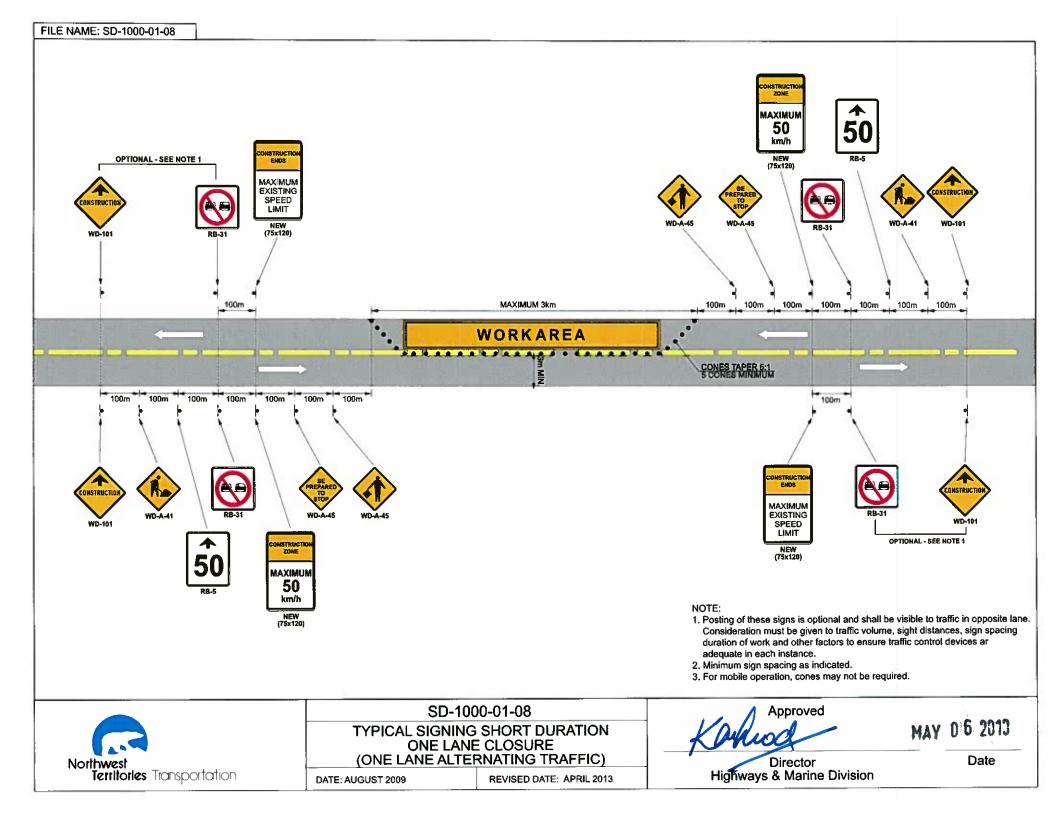


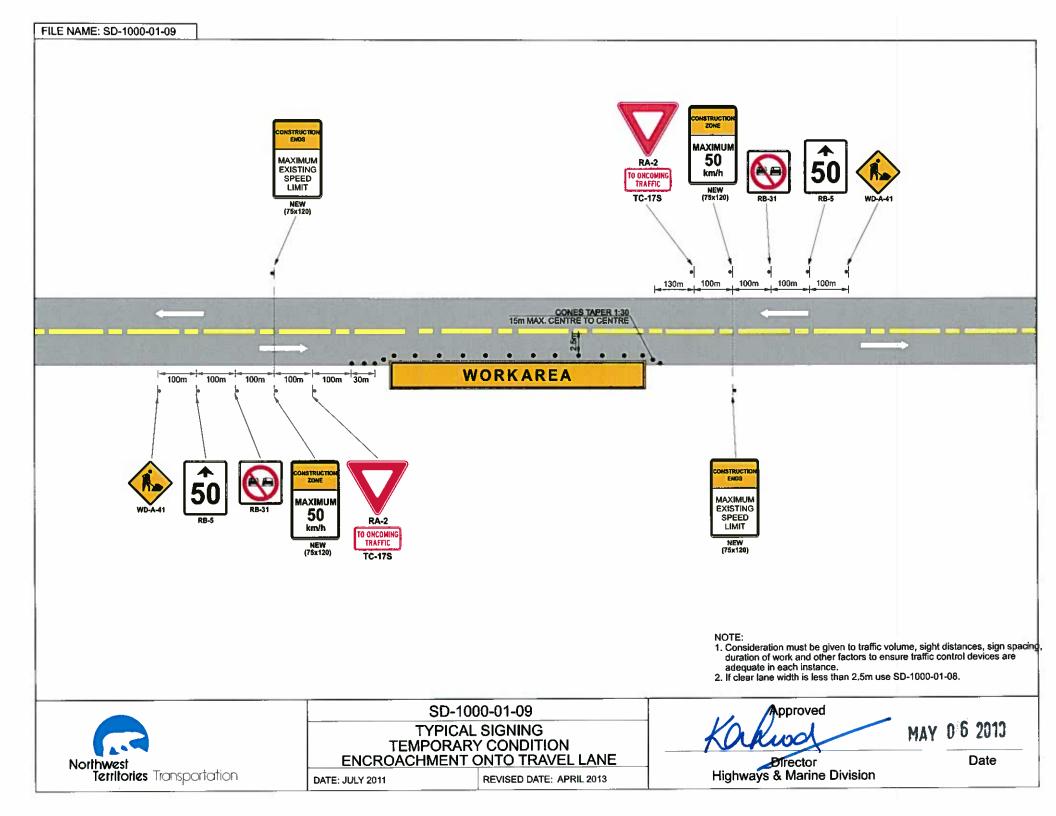


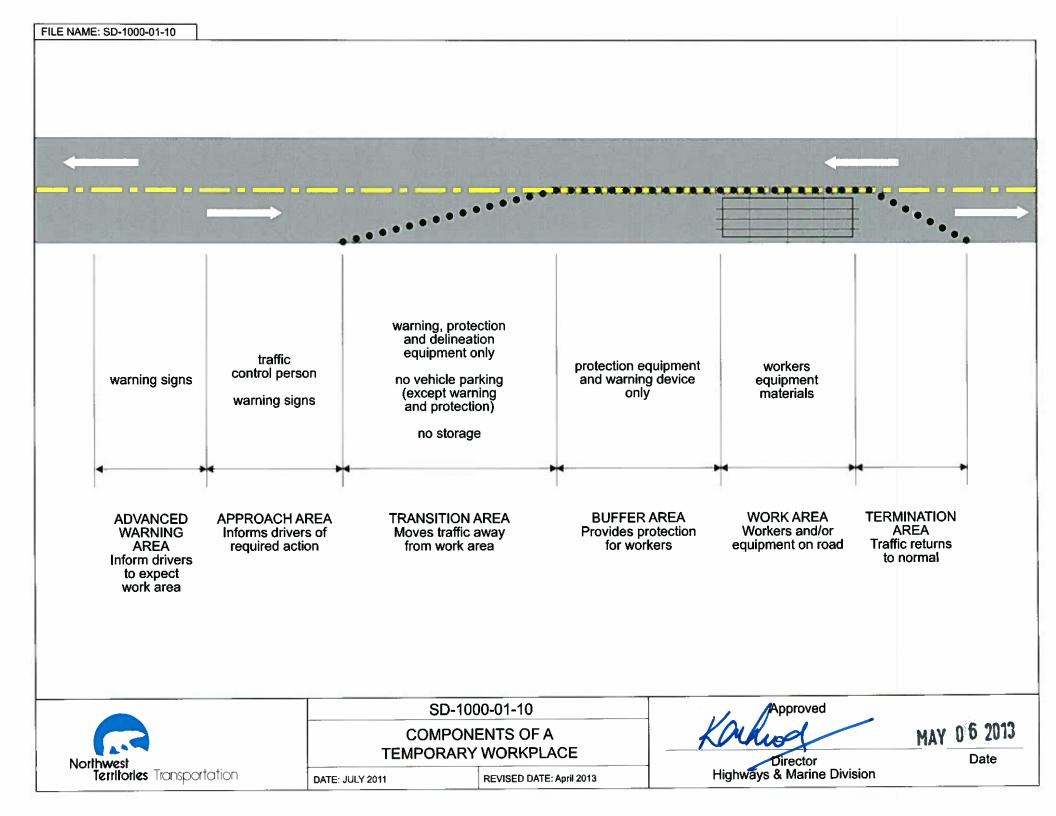












FILE NAME: SD-1000-01-11 HIGHWAY RIGHT-OF-WAY LIMITS WORK AREA HIGHWAY RIGHT-OF-WAY LIMITS SD-1000-01-11



TYPICAL SIGNING SHORT DURATION **RIGHT-OF-WAY MAINTENANCE**

DATE: AUGUST 2009

REVISED DATE: APRIL 2013

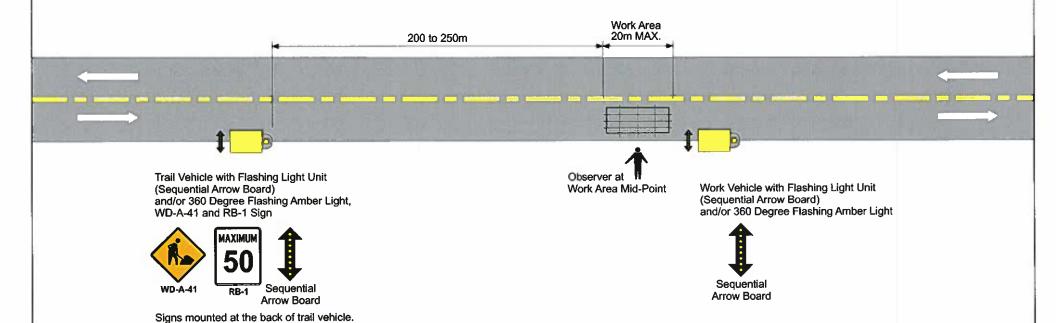
Director

Highways & Marine Division

MAY 0 6 2013

Date

- This Figure accompanies the written procedure found in the Isolated Pothole Patching code of practice.
- Position Work and Trail Vehicle off travel lane to greatest extent practical.
- Position vehicles so that Flashing Light Units (Sequential Arrow Board) are aimed to provide the best visibility for approaching traffic.



Posted Speed (km/h)	Initial Landmark (m)
100	361
90	325
80	289
70	253
60	217
50	181



SD-1000-01-12

ISOLATED POTHOLE PATCHING CODE OF PRACTICE VEHICLE POSITIONING - PRIMARY HIGHWAYS (ARTERIAL AND COLLECTOR)

DATE: APRIL 2011

REVISED DATE: April 2013

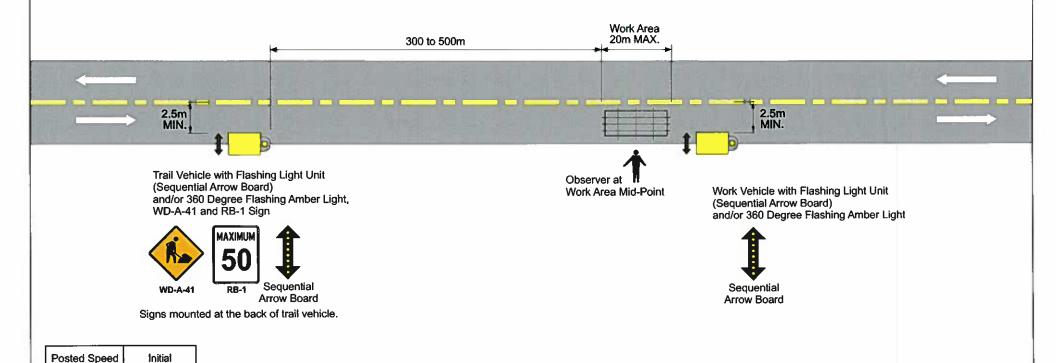
Approved

MAY 0 6 2013

Director
Highways & Marine Division

Date

- This Figure accompanies the written procedure found in the Isolated Pothole Patching code of practice.
- Position Work and Trail Vehicle off travel lane to greatest extent practical.
- Position vehicles so that Flashing Light Units (Sequential Arrow Board) are aimed to provide the best visibility for approaching traffic.



Northwest	
Territories Transporta	noite

Landmark (m)

253 217

181

140

100

(km/h)

70

60 50

40

30

SD-1000-01-13

ISOLATED POTHOLE PATCHING CODE OF PRACTICE VEHICLE POSITIONING - LOCAL ROADS

DATE: APRIL 2011

REVISED DATE: APRIL 2013

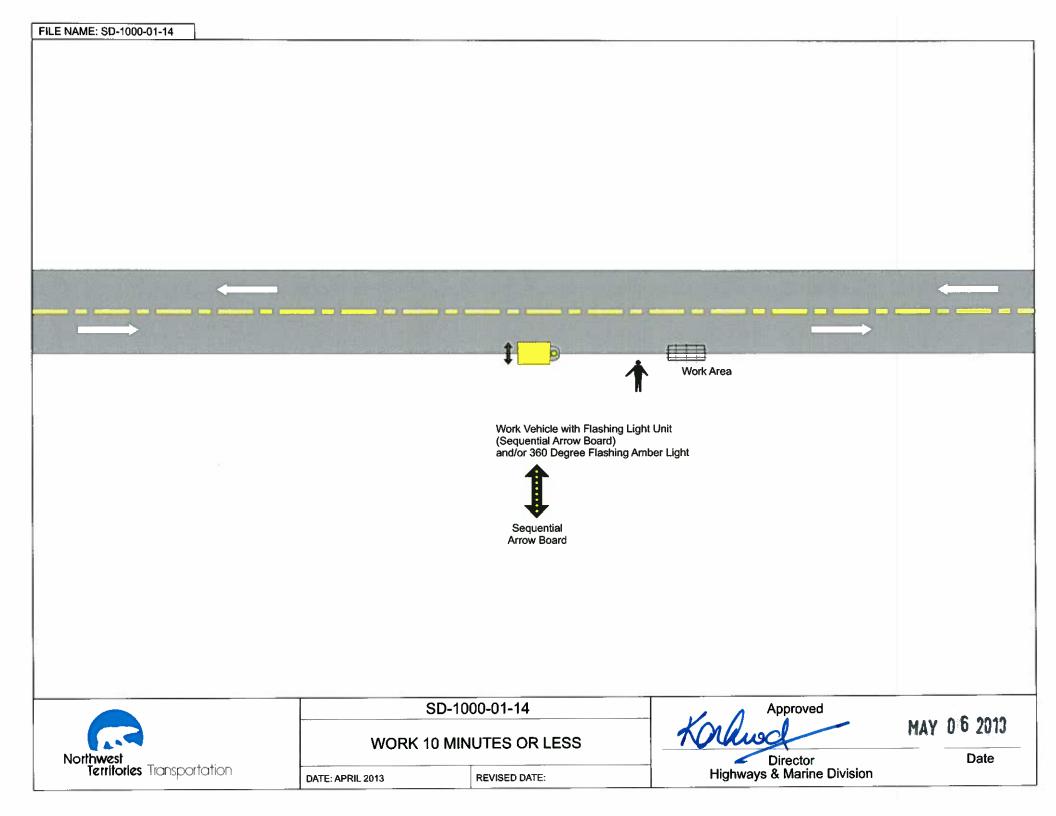
Approved

Approved

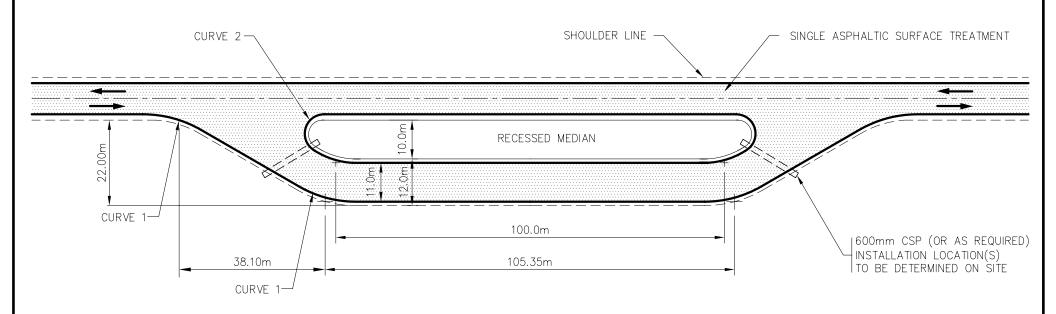
Director

Highways & Marine Division

MAY 0 6 2013



	CURVE 1	CURVE 2
\triangle	30° 00'00"	150° 00'00"
R	30m	5m
TANGENT	8.038m	18.660m



NOTE:

1. DIMENSIONS SHOWN ARE FINISHED SURFACE PAVEMENT AND GRANULAR SHOULDER WIDTHS.



TYPICAL ROADSIDE TURNOUT

Approved

Director Date

Highways & Engineering

