

DS 200 Series – Commercial and Residential Entrance Design Standard Drawings List

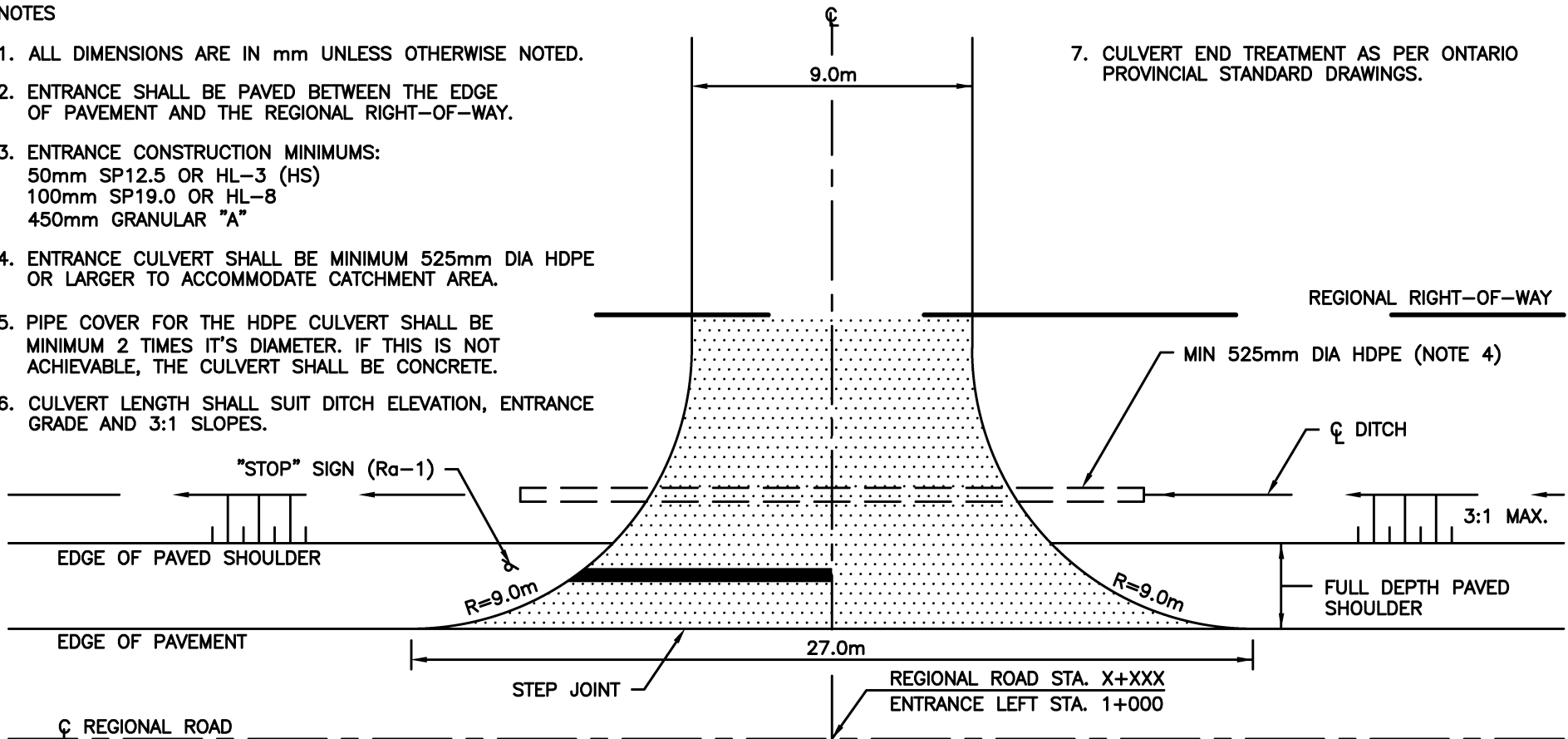
| Drawing Number | Drawing Title | Revision Date |
|-----------------------|--|----------------------|
| DS-200 | Commercial Entrance - Rural | January 2023 |
| DS-201 | Commercial - Typical Right Turn In Only - Rural | March 2023 |
| DS-202 | Commercial - Typical Right Turn In / Right Turn Out Only - Rural | March 2023 |
| DS-203 | Commercial Entrance - Urban | January 2023 |
| DS-204 | Commercial - Typical Right Turn In Only - Urban | March 2023 |
| DS-205 | Commercial - Typical Right Turn Out Only - Urban | March 2023 |
| DS-206 | Commercial - Right In / Right Out Only (Blocked by Concrete Raised Slab Median) - Urban | March 2023 |
| DS-207 | Commercial - Typical Right Turn In / Right Turn Out - Urban | March 2023 |
| DS-208 | Commercial - Typical Divided Entrance - (1 Lane In, 2 Lanes Out) - Urban | March 2023 |
| DS-209 | Commercial - Typical Divided Entrance - (2 Lanes In, 2 Lanes Out) - Urban | March 2023 |
| DS-210 | Commercial - Typical Divided Entrance with Right Turn lane - (2 Lanes In, 2 Lanes Out) - Urban | March 2023 |
| DS-211 | Property Requirement for Traffic Control Signals at Commercial Entrance - (1 Lane In, 2 Lanes Out) | January 2023 |
| DS-212 | Property Requirement for Traffic Control Signals at Commercial Entrance - (4 Lanes with Median) | January 2023 |
| DS-213 | Property Requirement for Traffic Control Signals at Commercial Entrance - (5 Lanes with Median) | January 2023 |
| DS-214 | Residential Entrance - Rural | January 2023 |
| DS-215 | Single Family Residential Entrance - Urban | January 2023 |
| DS-216 | Commercial Entrance Curb Return | January 2023 |
| DS-217 | Mud Mat for Temporary Construction Access | January 2023 |
| DS-218 | Single Family Residential Entrance - Rural | March 2023 |
| DS-219 | Road Widening Detail | March 2023 |
| DS-220 | Trench Restoration Detail | March 2023 |

| | | |
|---------------|---|--------------|
| DS-221 | Siltation Control Along Regional Property Lines | January 2023 |
| DS-222 | Check Dams on Swales Conveying Flow Towards Regional Property Lines | January 2023 |

NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ENTRANCE SHALL BE PAVED BETWEEN THE EDGE OF PAVEMENT AND THE REGIONAL RIGHT-OF-WAY.
3. ENTRANCE CONSTRUCTION MINIMUMS:
50mm SP12.5 OR HL-3 (HS)
100mm SP19.0 OR HL-8
450mm GRANULAR "A"
4. ENTRANCE CULVERT SHALL BE MINIMUM 525mm DIA HDPE OR LARGER TO ACCOMMODATE CATCHMENT AREA.
5. PIPE COVER FOR THE HDPE CULVERT SHALL BE MINIMUM 2 TIMES IT'S DIAMETER. IF THIS IS NOT ACHIEVABLE, THE CULVERT SHALL BE CONCRETE.
6. CULVERT LENGTH SHALL SUIT DITCH ELEVATION, ENTRANCE GRADE AND 3:1 SLOPES.

7. CULVERT END TREATMENT AS PER ONTARIO PROVINCIAL STANDARD DRAWINGS.



| | | | | | | |
|-----|-------|-------|-------------|------------------|--------------------------|-------|
| | | | ROW | EDGE OF PAVEMENT | REGIONAL ROAD | |
| 298 | | | | | | 298 |
| 297 | | | PAVED SHLD. | | MAX. 4% CHANGE IN GRADE | 297 |
| 296 | | | 10% MAX. | 5% | | 296 |
| 295 | | | EXISTING | | 2% | 295 |
| | 0+970 | 0+980 | | 0+990 | 1+000 | 1+010 |
| | | | | | STA. X+XXX ENTRANCE LEFT | |



**Public Works
Transportation**

**COMMERCIAL ENTRANCE
-RURAL**

DATE: JANUARY 2023

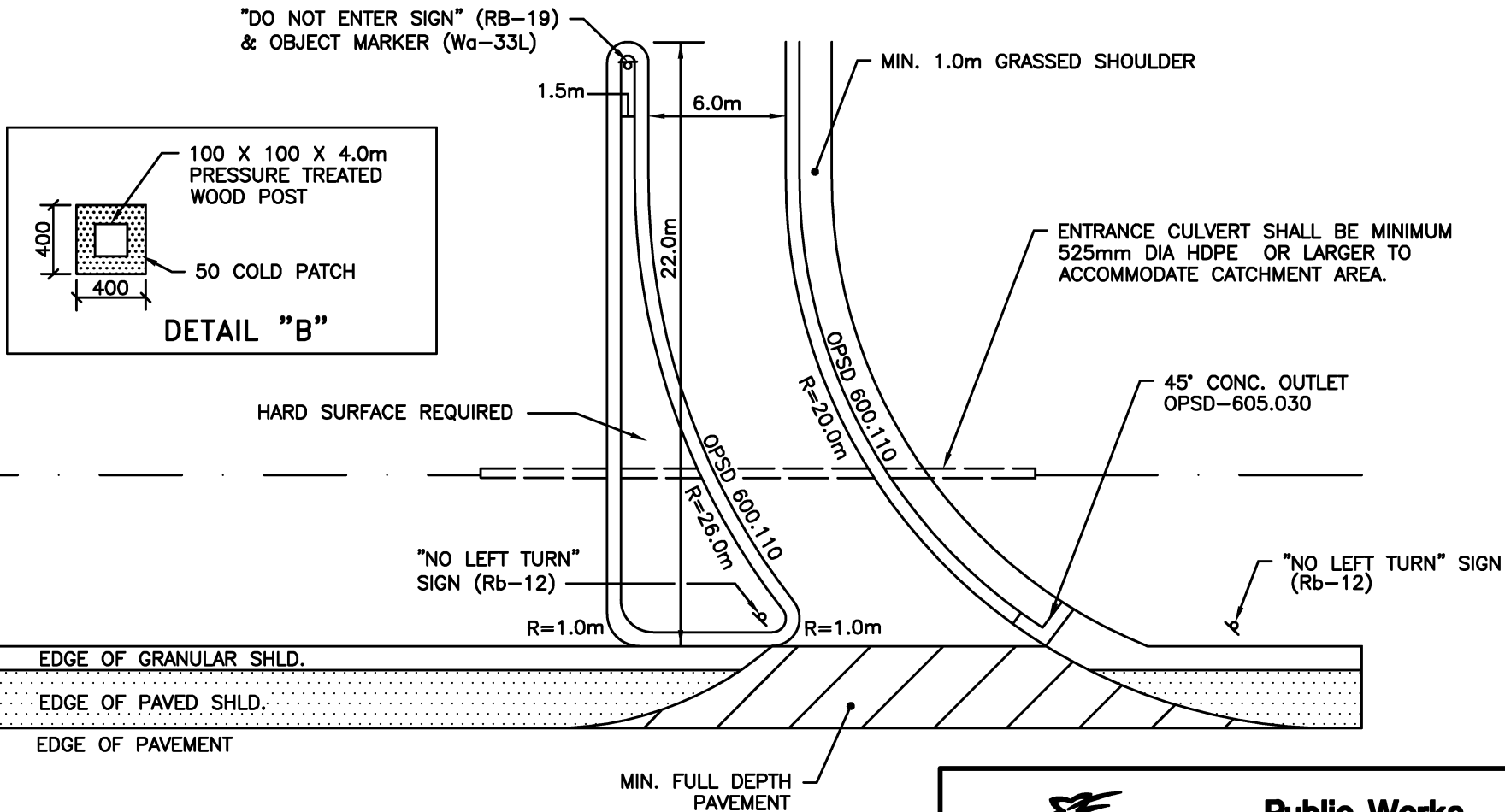
SCALE N.T.S.

REV.

X

X

DS-200



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4X4 PRESSURE TREATED WOOD POSTS.
4. REFER TO STANDARD DRAWING E-6.03, DETAIL "B" WHEN A CONCRETE SLAB RAISED MEDIAN IS BEING USED.
5. HARD SURFACE TO BE PROVIDED WITHIN MEDIAN WHERE BARRIER CURB OR CURB AND GUTTER IS USED.



**Public Works
Transportation**

**COMMERCIAL-
TYPICAL RIGHT TURN IN ONLY
-RURAL**

DATE: MARCH 2023

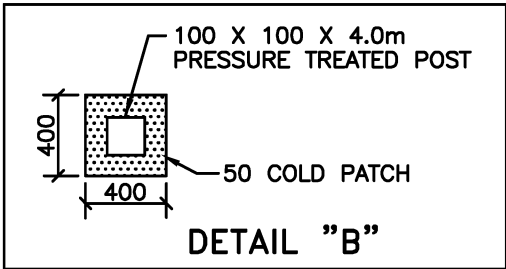
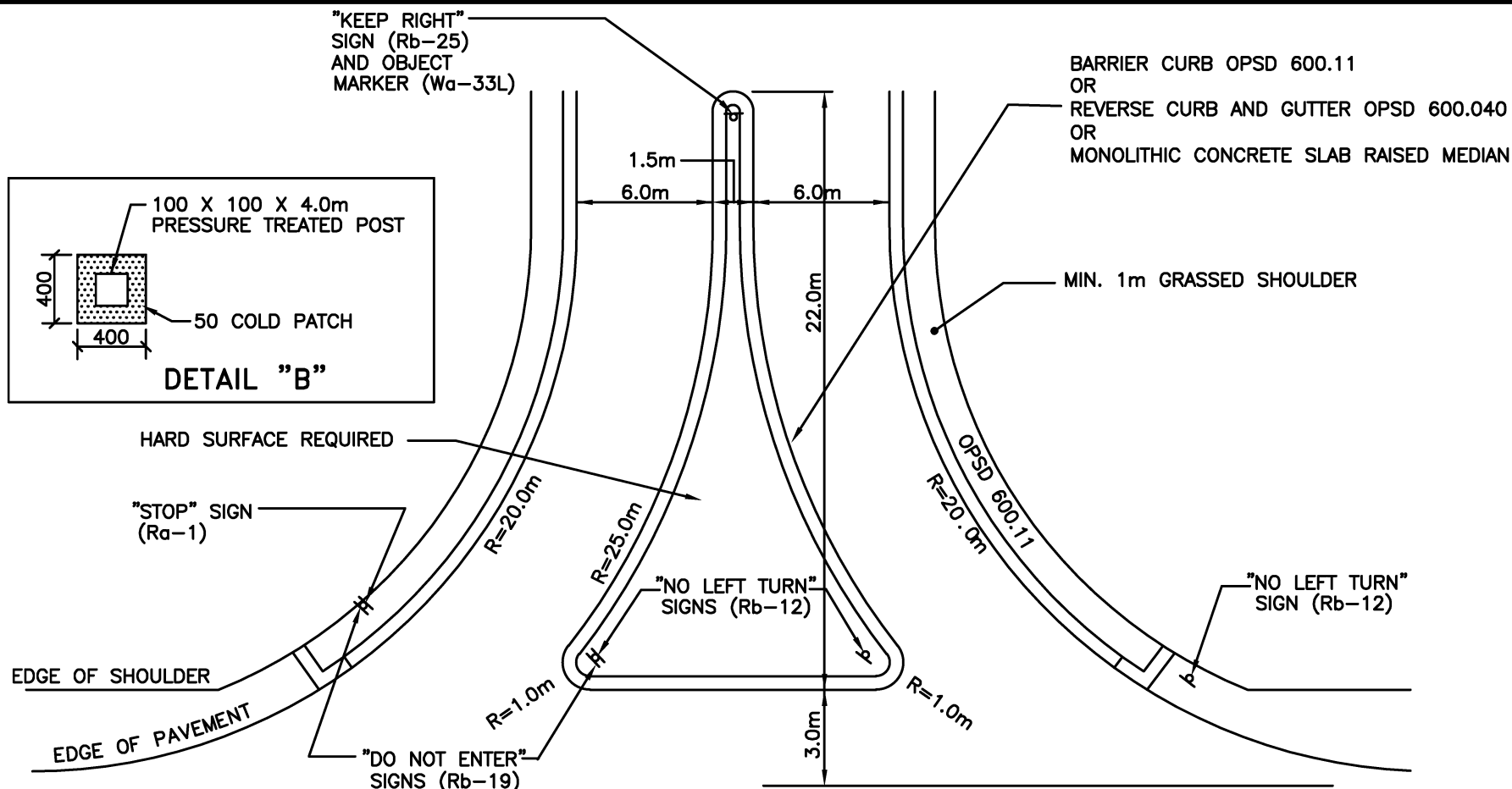
SCALE N.T.S.

REV.

X

X

DS-201



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4X4 PRESSURE TREATED WOOD POSTS.
4. REFER TO STANDARD DRAWING E-6.03, DETAIL "B" WHEN A CONCRETE SLAB RAISED MEDIAN IS BEING USED.
5. HARD SURFACE TO BE PROVIDED WITHIN MEDIAN WHERE BARRIER CURB OR CURB AND GUTTER IS USED.



**Public Works
Transportation**

**COMMERCIAL-
TYPICAL RIGHT TURN IN/
RIGHT TURN OUT ONLY
-RURAL**

DATE: MARCH 2023

SCALE N.T.S.

REV.

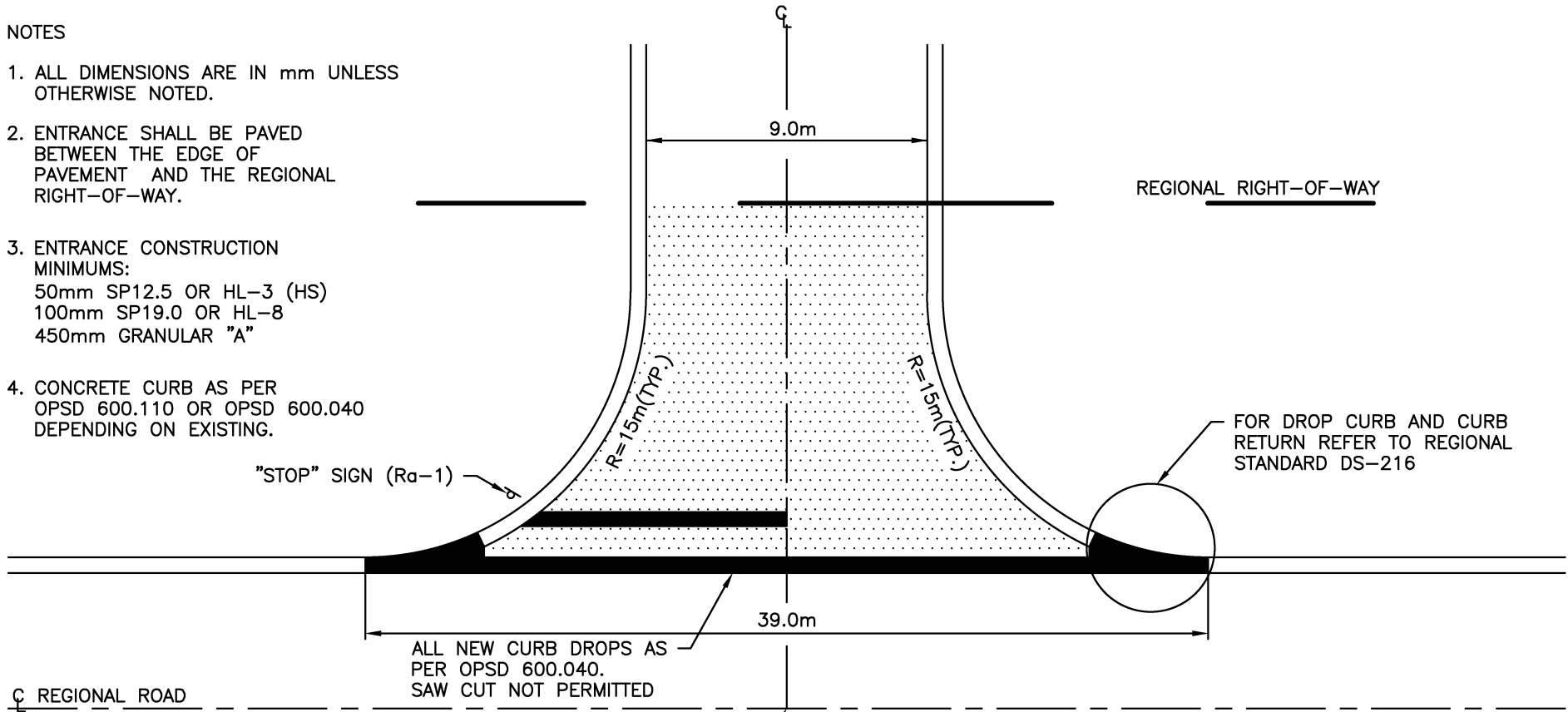
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X

DS-202

NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ENTRANCE SHALL BE PAVED BETWEEN THE EDGE OF PAVEMENT AND THE REGIONAL RIGHT-OF-WAY.
3. ENTRANCE CONSTRUCTION MINIMUMS:
 50mm SP12.5 OR HL-3 (HS)
 100mm SP19.0 OR HL-8
 450mm GRANULAR "A"
4. CONCRETE CURB AS PER OPSD 600.110 OR OPSD 600.040 DEPENDING ON EXISTING.



REGIONAL ROAD

REGIONAL ROAD STA. X+XXX
 ENTRANCE LEFT STA. 1+000

| | | | | | |
|-----|-------|-------|------------------|--------------------------|-----|
| 298 | | ROW | EDGE OF PAVEMENT | REGIONAL ROAD | 298 |
| 297 | | | | MAX. 4% CHANGE IN GRADE | 297 |
| 296 | | 2% | 2% | | 296 |
| 295 | 0+970 | 0+980 | 0+990 | STA. X+XXX ENTRANCE LEFT | 295 |
| | | | | 1+000 | |
| | | | | 1+010 | |



**Public Works
 Transportation**

**COMMERCIAL ENTRANCE
 - URBAN**

DATE: JANUARY 2023

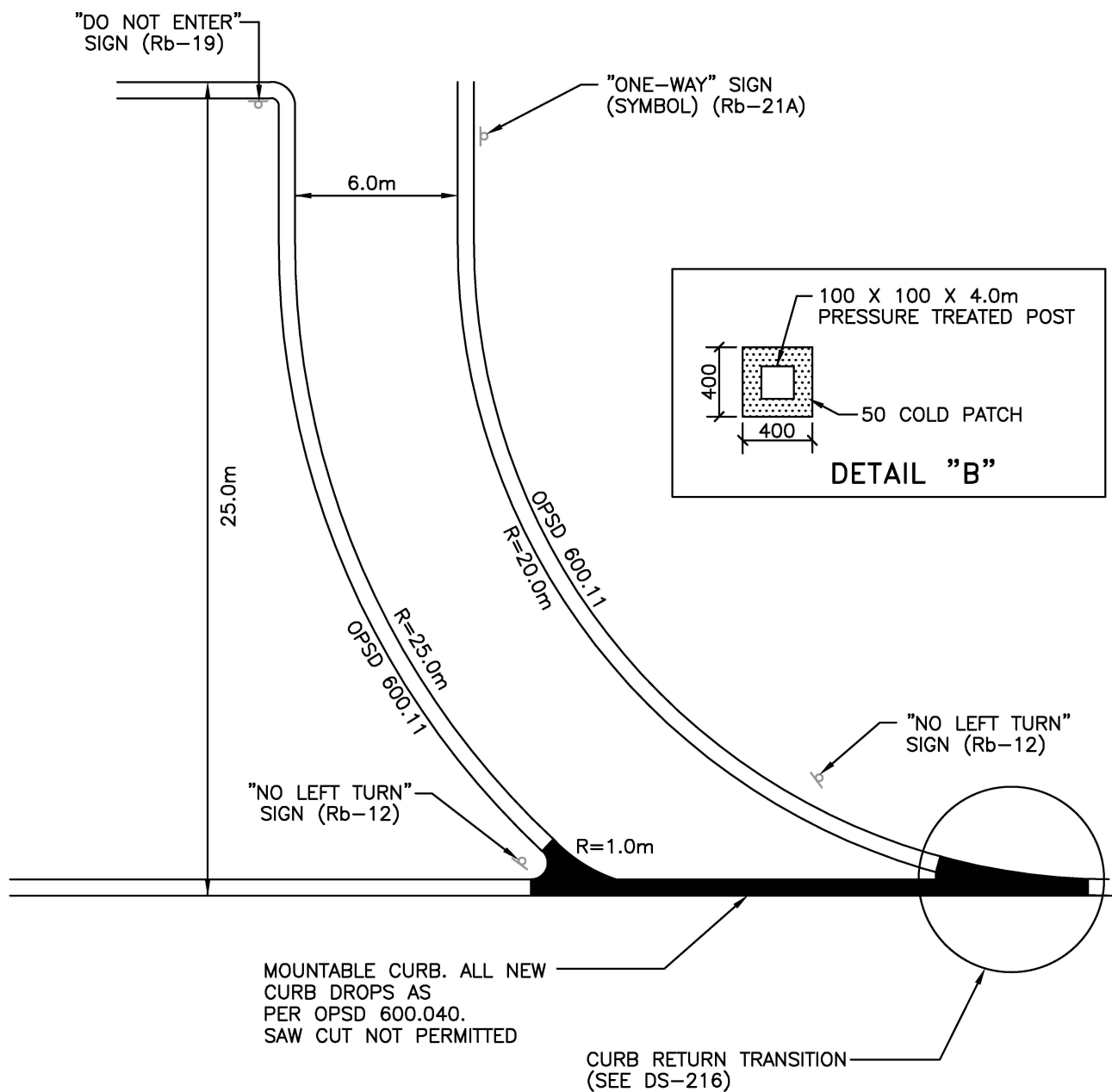
SCALE N.T.S.

REV.

X

X

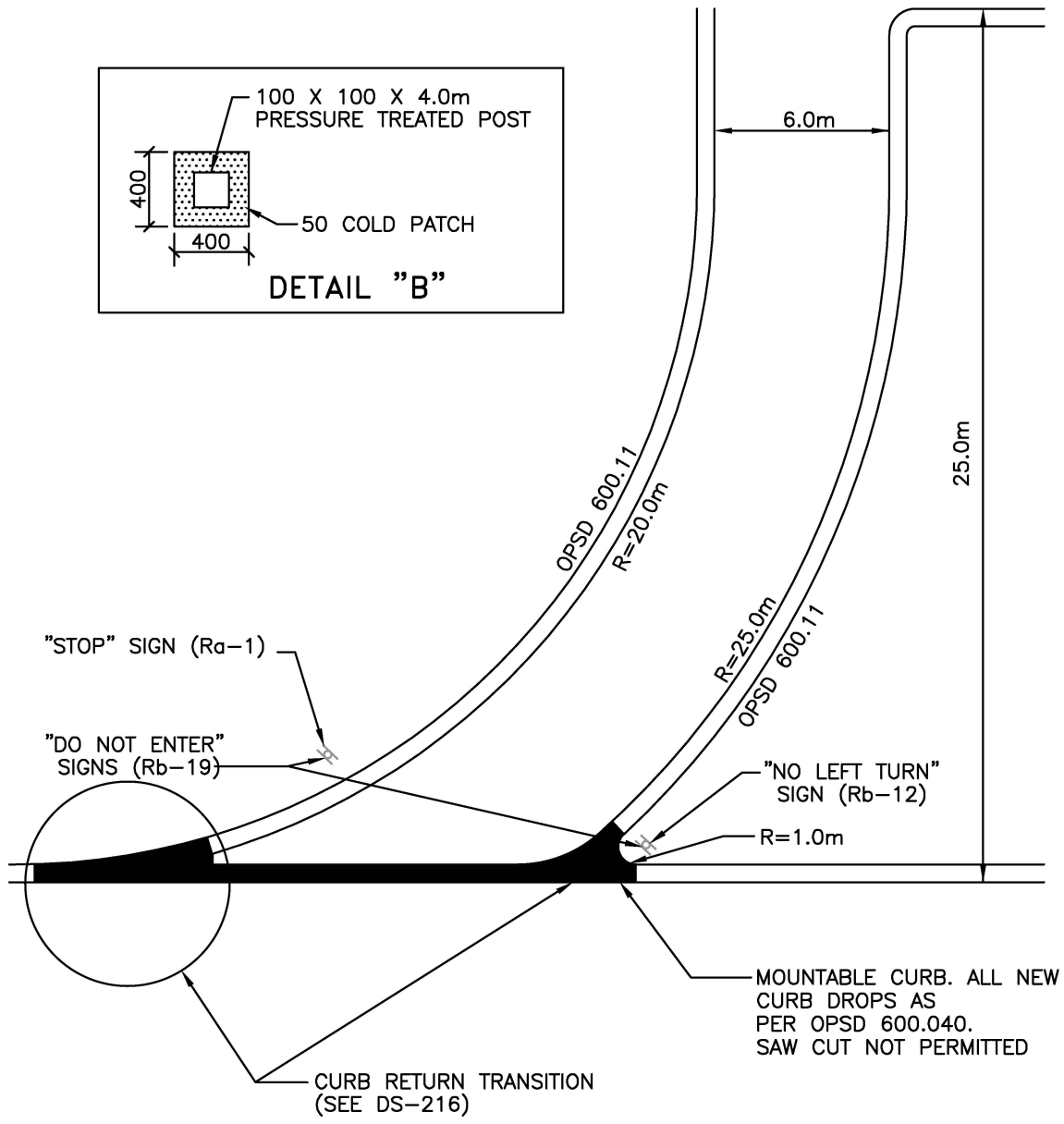
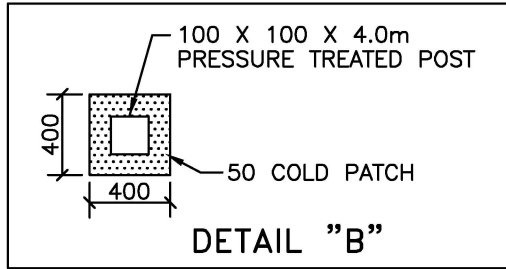
DS-203



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4X4 PRESSURE TREATED WOOD POSTS.
4. REFER TO STANDARD DRAWING E-6.03, DETAIL "B" WHEN A CONCRETE SLAB RAISED MEDIAN IS BEING USED.
5. SIDEWALK TO CARRY THROUGH ENTRANCE.

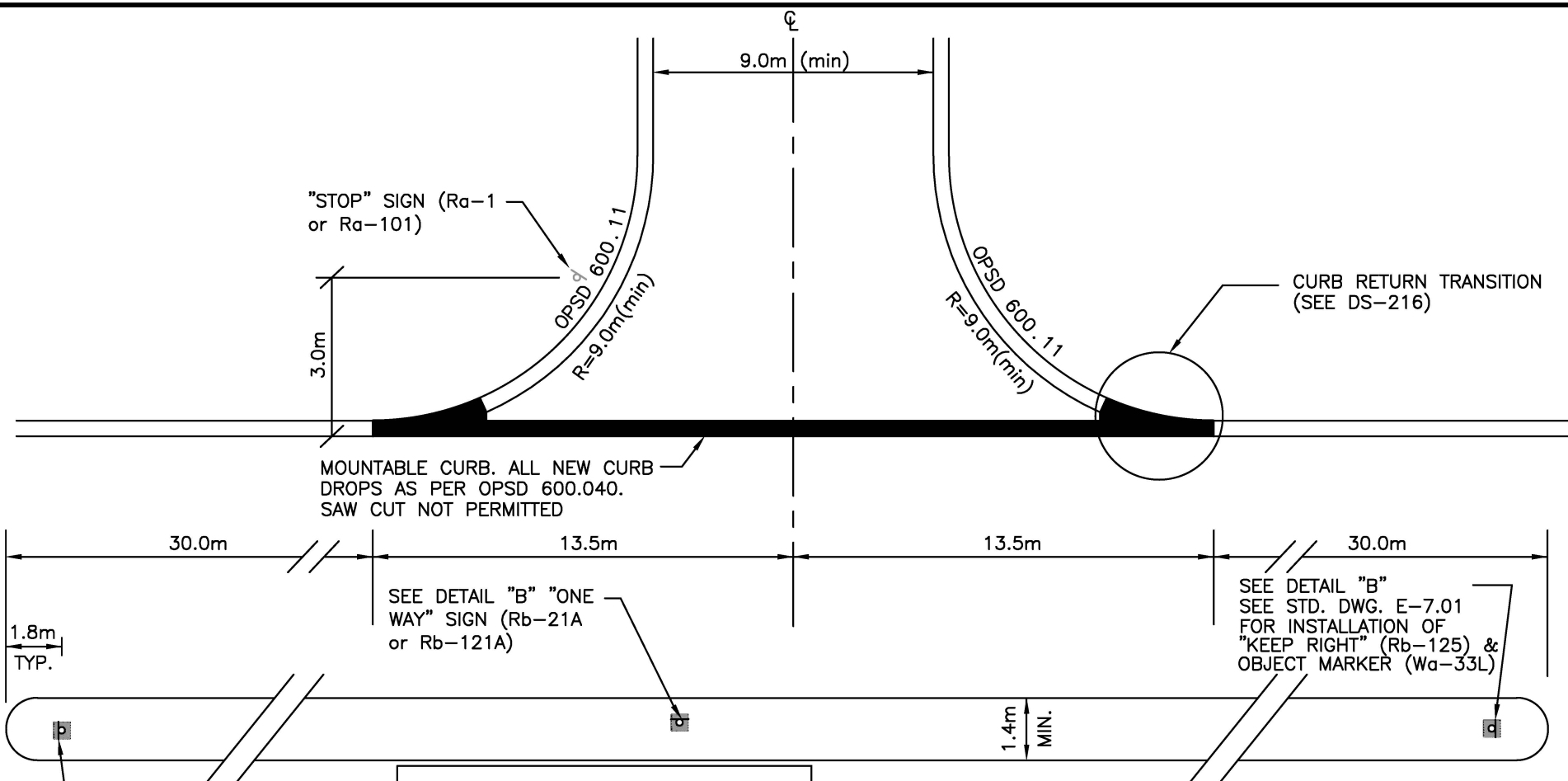
| | | |
|--|------------|--|
| | | Public Works Transportation |
| COMMERCIAL- TYPICAL RIGHT TURN IN ONLY -URBAN | | |
| DATE: | MARCH 2023 | SCALE N.T.S. |
| REV. | X | X |
| | | DS-204 |



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4X4 PRESSURE TREATED WOOD POSTS.
4. REFER TO STANDARD DRAWING E-6.03, DETAIL "B" WHEN A CONCRETE SLAB RAISED MEDIAN IS BEING USED.

| | | |
|---|------------|--|
| | | Public Works Transportation |
| COMMERCIAL- TYPICAL RIGHT TURN OUT ONLY -URBAN | | |
| DATE: | MARCH 2023 | SCALE N.T.S. |
| REV. | X X | DS-205 |



"STOP" SIGN (Ra-1 or Ra-101)

OPSD 600.11
R=9.0m(min)

OPSD 600.11
R=9.0m(min)

CURB RETURN TRANSITION (SEE DS-216)

MOUNTABLE CURB. ALL NEW CURB DROPS AS PER OPSD 600.040. SAW CUT NOT PERMITTED

30.0m

13.5m

13.5m

30.0m

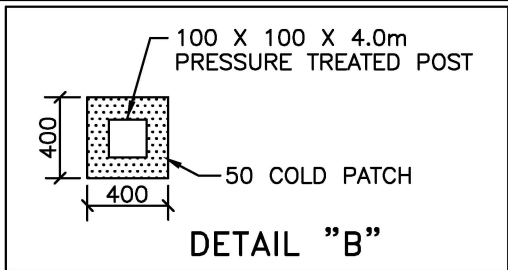
1.8m TYP.

SEE DETAIL "B" "ONE WAY" SIGN (Rb-21A or Rb-121A)

SEE DETAIL "B" SEE STD. DWG. E-7.01 FOR INSTALLATION OF "KEEP RIGHT" (Rb-125) & OBJECT MARKER (Wa-33L)

1.4m MIN.

SEE DETAIL "B" SEE STD. DWG. E-7.01 FOR INSTALLATION OF "KEEP RIGHT" (Rb-125) & OBJECT MARKER (Wa-33L)



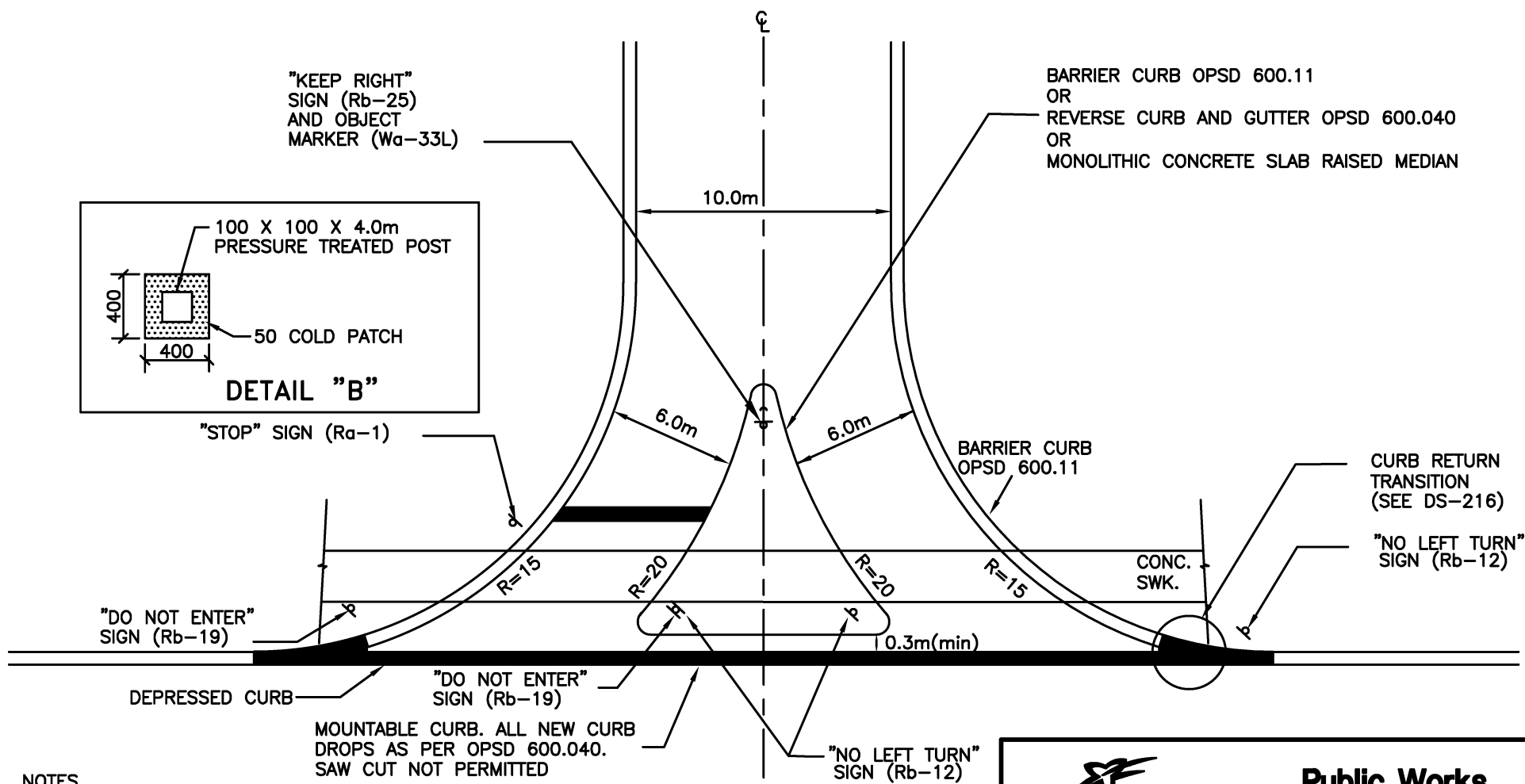
NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4x4 PRESSURE TREATED WOOD POSTS.

York Region Public Works Transportation


COMMERCIAL-
RIGHT IN/RIGHT OUT ONLY
(BLOCKED BY CONCRETE SLAB
RAISED MEDIAN) - URBAN

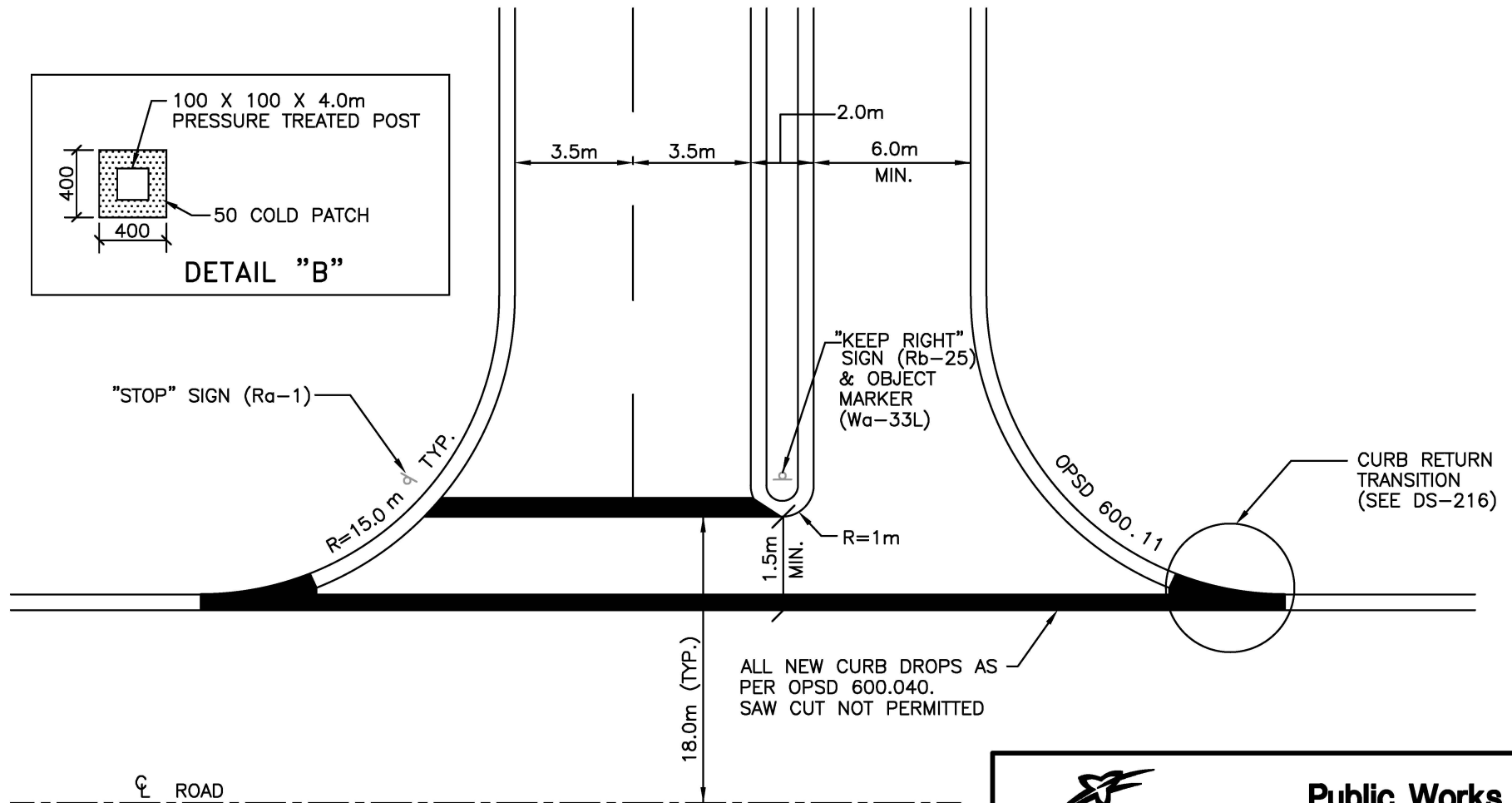
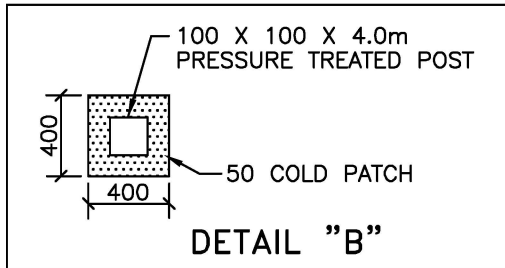
| | | | | | |
|-------|---|------------|--|--------------|--|
| DATE: | | MARCH 2023 | | SCALE N.T.S. | |
| REV. | X | X | | DS-206 | |



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4X4 PRESSURE TREATED WOOD POSTS.
4. CENTRE RAISED MEDIAN ISLAND ON REGIONAL ROAD IS PREFERRED, WHERE FEASIBLE, RATHER THAN TRUMPET ISLAND (SEE DS-206).
5. REFER TO STANDARD DRAWING E-6.03, DETAIL "B" WHEN A CONCRETE SLAB RAISED MEDIAN IS BEING USED.
6. HARD SURFACE TO BE PROVIDED WITHIN MEDIAN WHERE BARRIER CURB OR CURB AND GUTTER IS USED.

| | | |
|---|---|--|
|  | | Public Works Transportation |
| COMMERCIAL- TYPICAL RIGHT TURN IN/ RIGHT TURN OUT -URBAN | | |
| DATE: MARCH 2023 | | SCALE N.T.S. |
| REV. | X | X |
| | | DS-207 |



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4X4 PRESSURE TREATED WOOD POSTS.
4. REFER TO STANDARD DRAWING E-6.03, DETAIL "B" WHEN A CONCRETE SLAB RAISED MEDIAN IS BEING USED.
5. SIDEWALK TO CARRY THROUGH ENTRANCE. MINIMUM OFFSET TO BULLNOSE WILL INCREASE.

York Region

**Public Works
Transportation**

COMMERCIAL-
TYPICAL DIVIDED ENTRANCE
1 LANE IN/2 LANES OUT
-URBAN

DATE: MARCH 2023

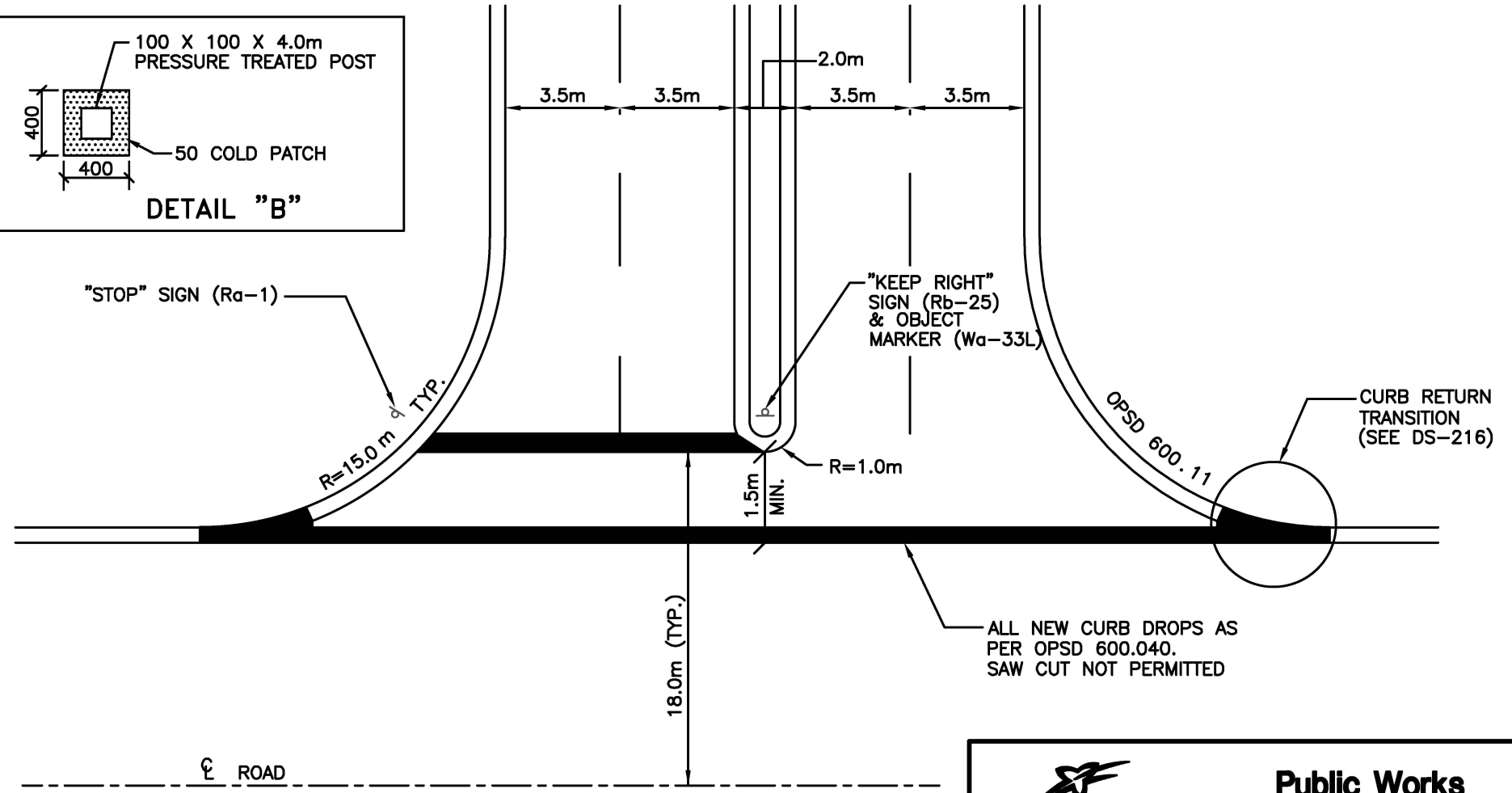
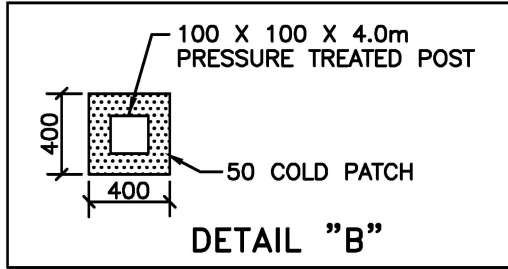
SCALE N.T.S.

REV.

X


X

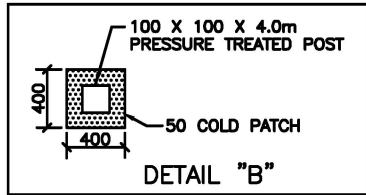
DS-208



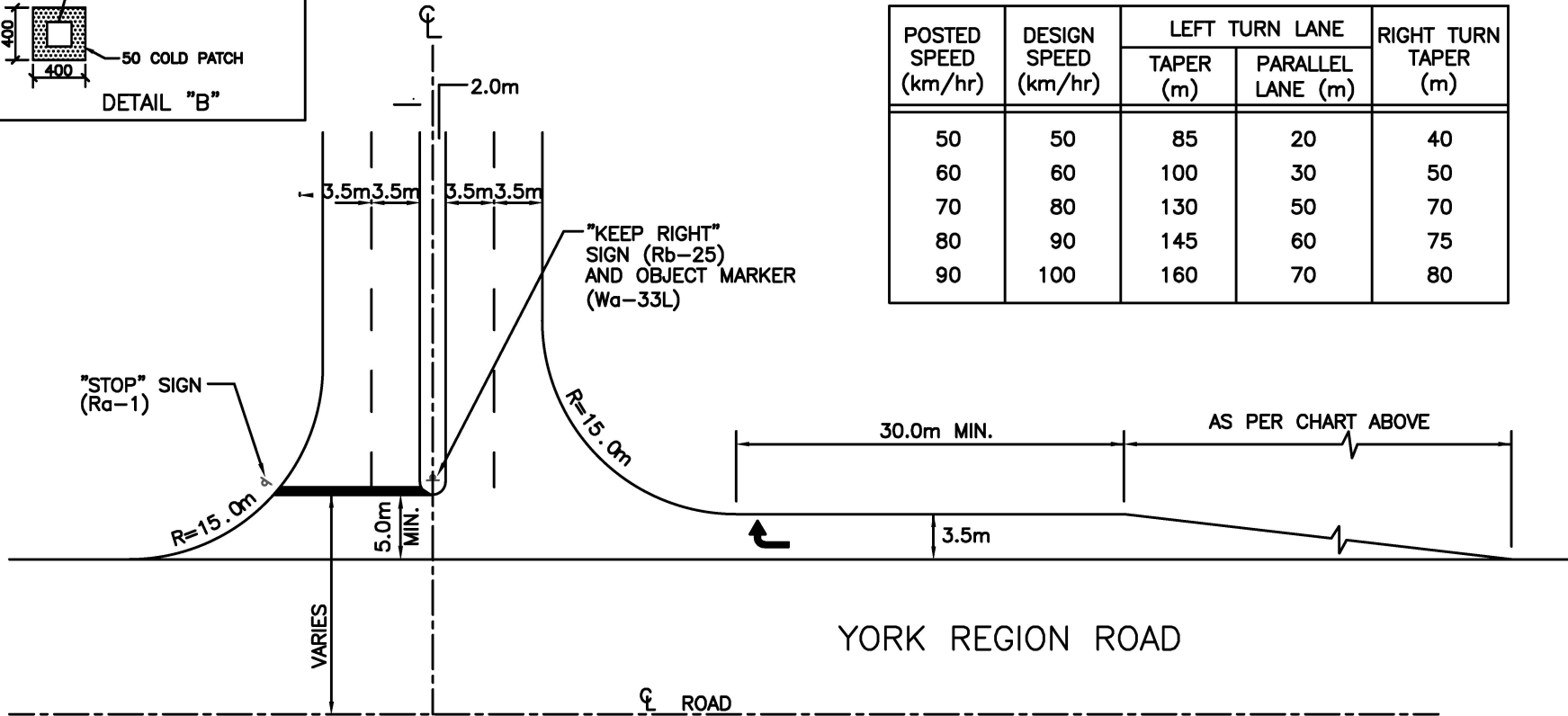
NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4X4 PRESSURE TREATED WOOD POSTS.
4. REFER TO STANDARD DRAWING E-6.03, DETAIL "B" WHEN A CONCRETE SLAB RAISED MEDIAN IS BEING USED.
5. SIDEWALK TO CARRY THROUGH ENTRANCE. MINIMUM OFFSET TO BULLNOSE WILL INCREASE.

| | | |
|---|---|--|
|  | | Public Works Transportation |
| COMMERCIAL- TYPICAL DIVIDED ENTRANCE 2 LANES IN/2 LANES OUT -URBAN | | |
| DATE: MARCH 2023 | | SCALE N.T.S. |
| REV. | X | X |
| | | DS-209 |



| POSTED SPEED (km/hr) | DESIGN SPEED (km/hr) | LEFT TURN LANE | | RIGHT TURN TAPER (m) |
|-------------------------|-------------------------|----------------|----------------------|----------------------------|
| | | TAPER (m) | PARALLEL LANE (m) | |
| 50 | 50 | 85 | 20 | 40 |
| 60 | 60 | 100 | 30 | 50 |
| 70 | 80 | 130 | 50 | 70 |
| 80 | 90 | 145 | 60 | 75 |
| 90 | 100 | 160 | 70 | 80 |



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE INDICATED.
2. CURB TYPE, CATCH BASINS, ETC. SHALL CONFORM TO ONTARIO PROVINCIAL STANDARDS. (INDICATE O.P.S.D. REFERENCE ON PLANS)
3. SIGNS TO BE MOUNTED ON 4x4 PRESSURE TREATED WOOD POSTS.
4. REFER TO STANDARD DRAWING E-6.03, DETAIL "B" WHEN A CONCRETE SLAB RAISED MEDIAN IS BEING USED.
5. SIDEWALK TO CARRY THROUGH ENTRANCE. MINIMUM OFFSET TO BULLNOSE WILL INCREASE.

York Region

**Public Works
Transportation**

**COMMERCIAL—
TYPICAL DIVIDED ENTRANCE
WITH RIGHT TURN LANE
2 LANES IN/2 LANES OUT
—URBAN**

DATE: MARCH 2023

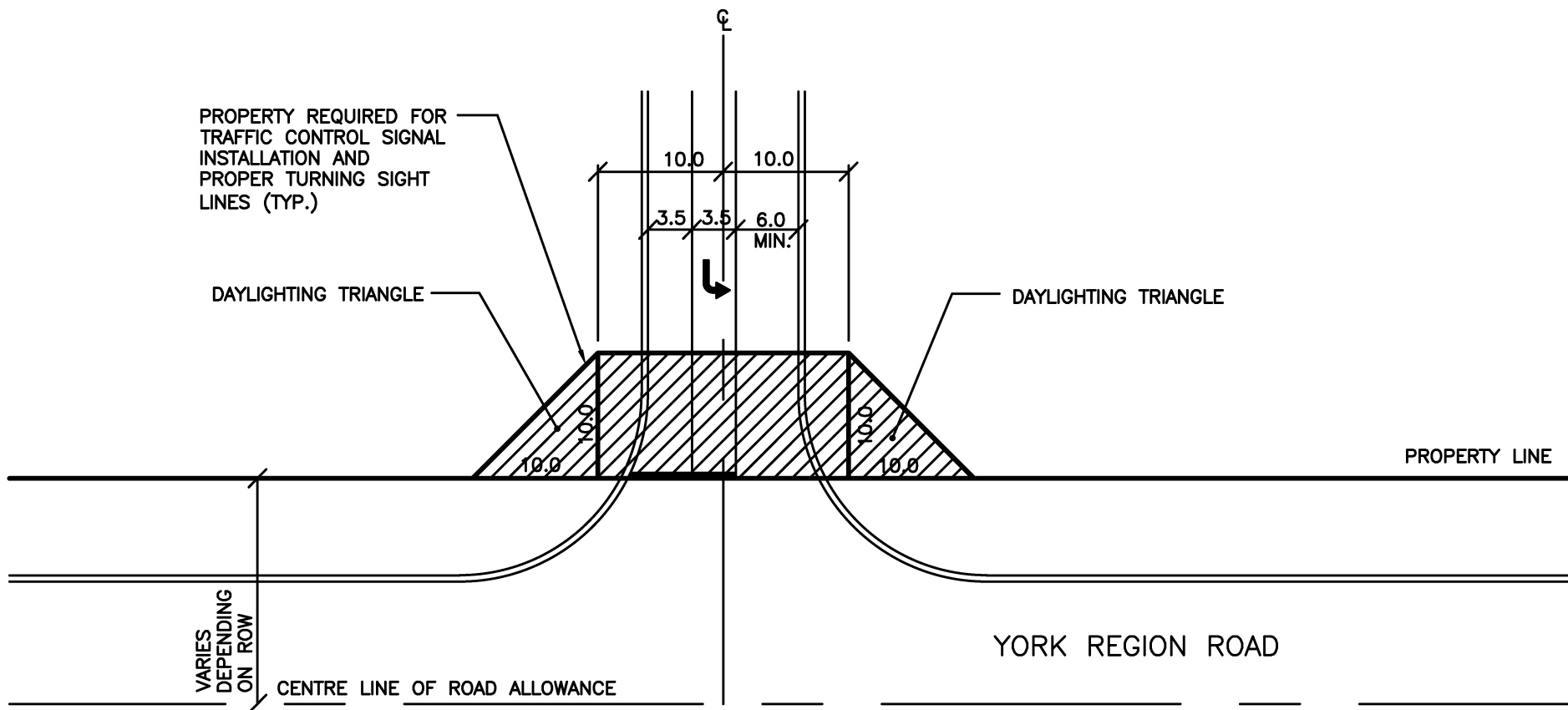
SCALE N.T.S.

REV.

X

X

DS-210



PROPERTY REQUIRED FOR
TRAFFIC CONTROL SIGNAL
INSTALLATION AND
PROPER TURNING SIGHT
LINES (TYP.)

DAYLIGHTING TRIANGLE

DAYLIGHTING TRIANGLE

PROPERTY LINE

VARIES
DEPENDING
ON ROW

CENTRE LINE OF ROAD ALLOWANCE

YORK REGION ROAD

NOTE
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.



**Public Works
Transportation**

PROPERTY REQUIREMENTS FOR
TRAFFIC CONTROL SIGNALS AT
COMMERCIAL ENTRANCE
(1 LANE IN, 2 LANES OUT)

DATE: JANUARY 2023

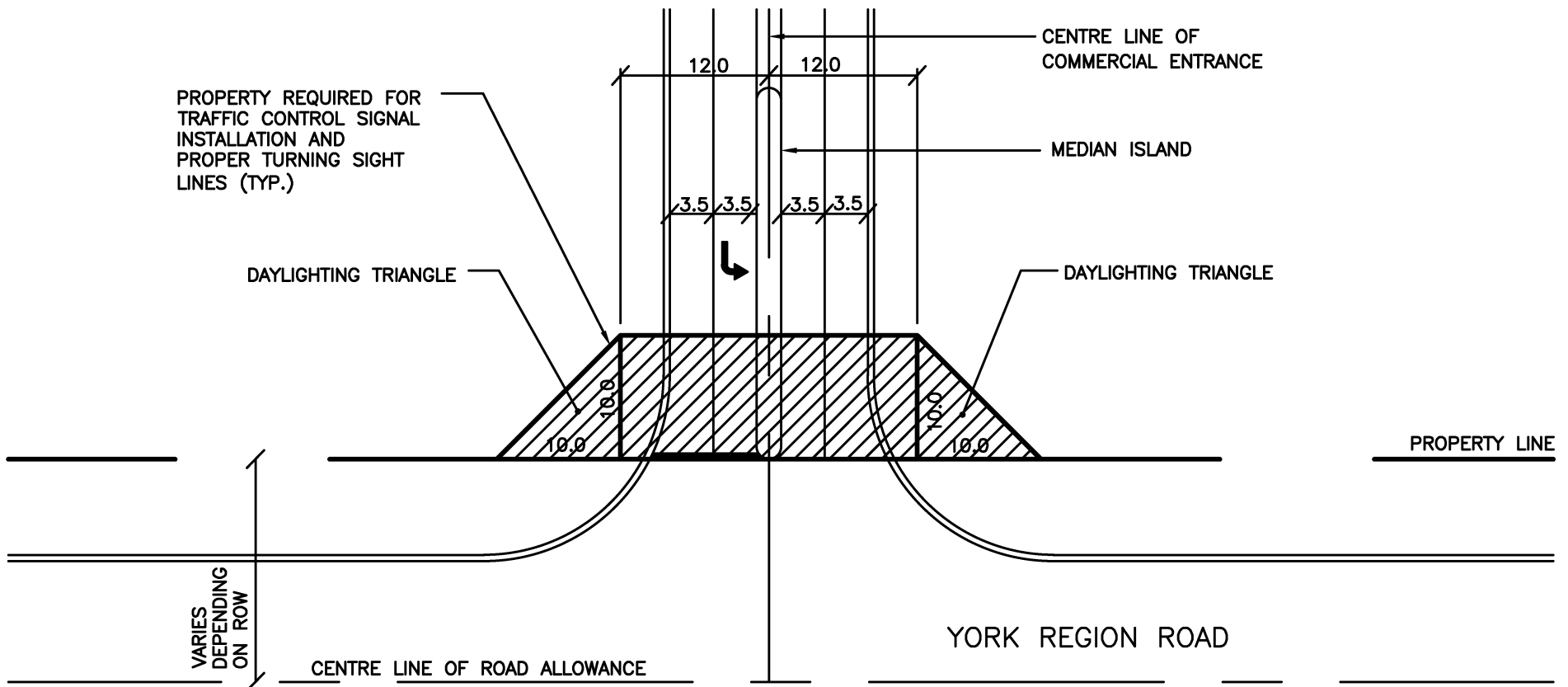
SCALE N.T.S.

REV.

X

X

DS-211

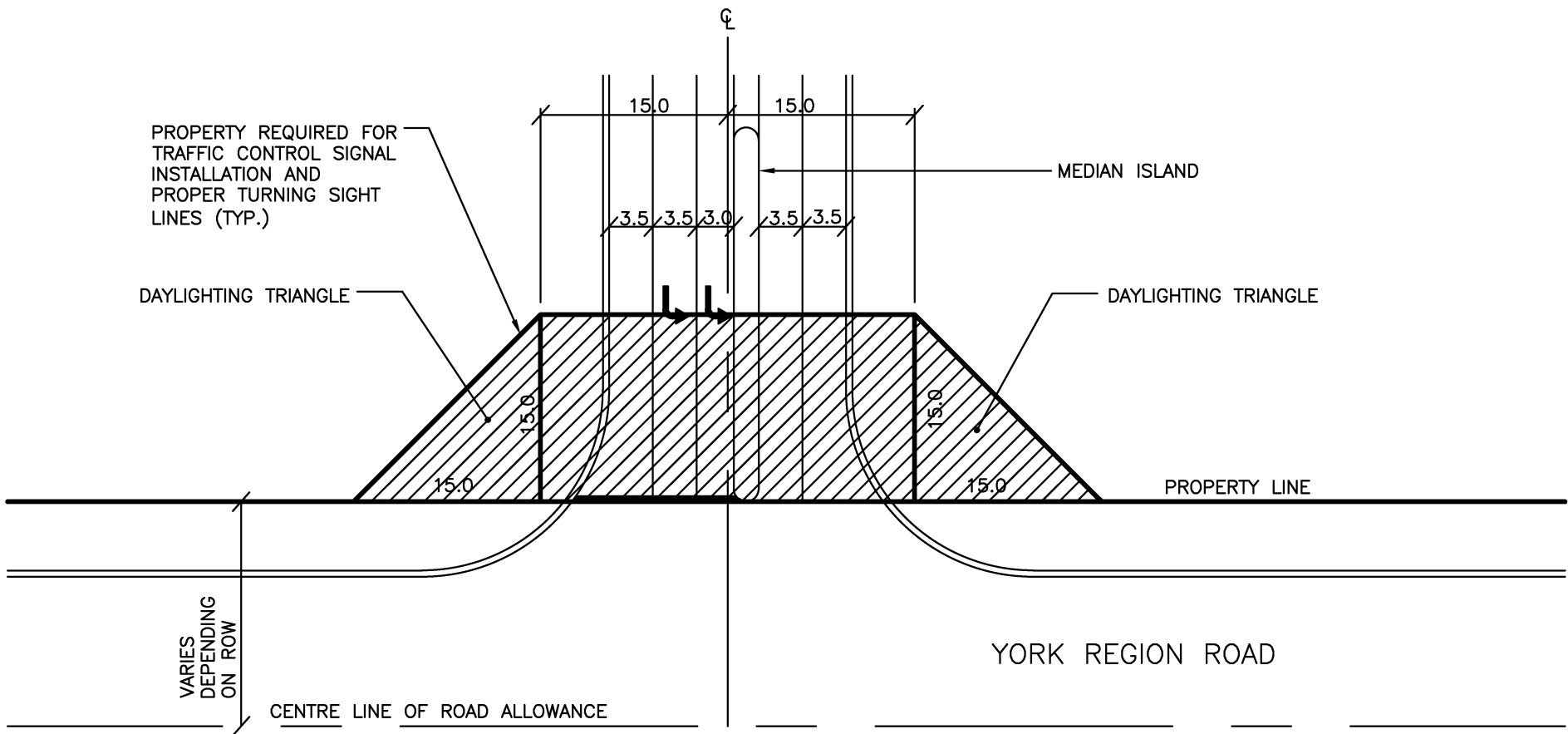


NOTE
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.

York Region **Public Works Transportation**

PROPERTY REQUIREMENTS FOR TRAFFIC CONTROL SIGNALS AT COMMERCIAL ENTRANCE (4 LANES WITH MEDIAN)

| | | | |
|-------|--------------|-------|---------------|
| DATE: | JANUARY 2023 | SCALE | N.T.S. |
| REV. | X | X | DS-212 |



NOTE
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED.



**Public Works
Transportation**

**PROPERTY REQUIREMENTS FOR
TRAFFIC CONTROL SIGNALS AT
COMMERCIAL ENTRANCE
(5 LANES WITH MEDIAN)**

DATE: JANUARY 2023

SCALE N.T.S.

REV.

X

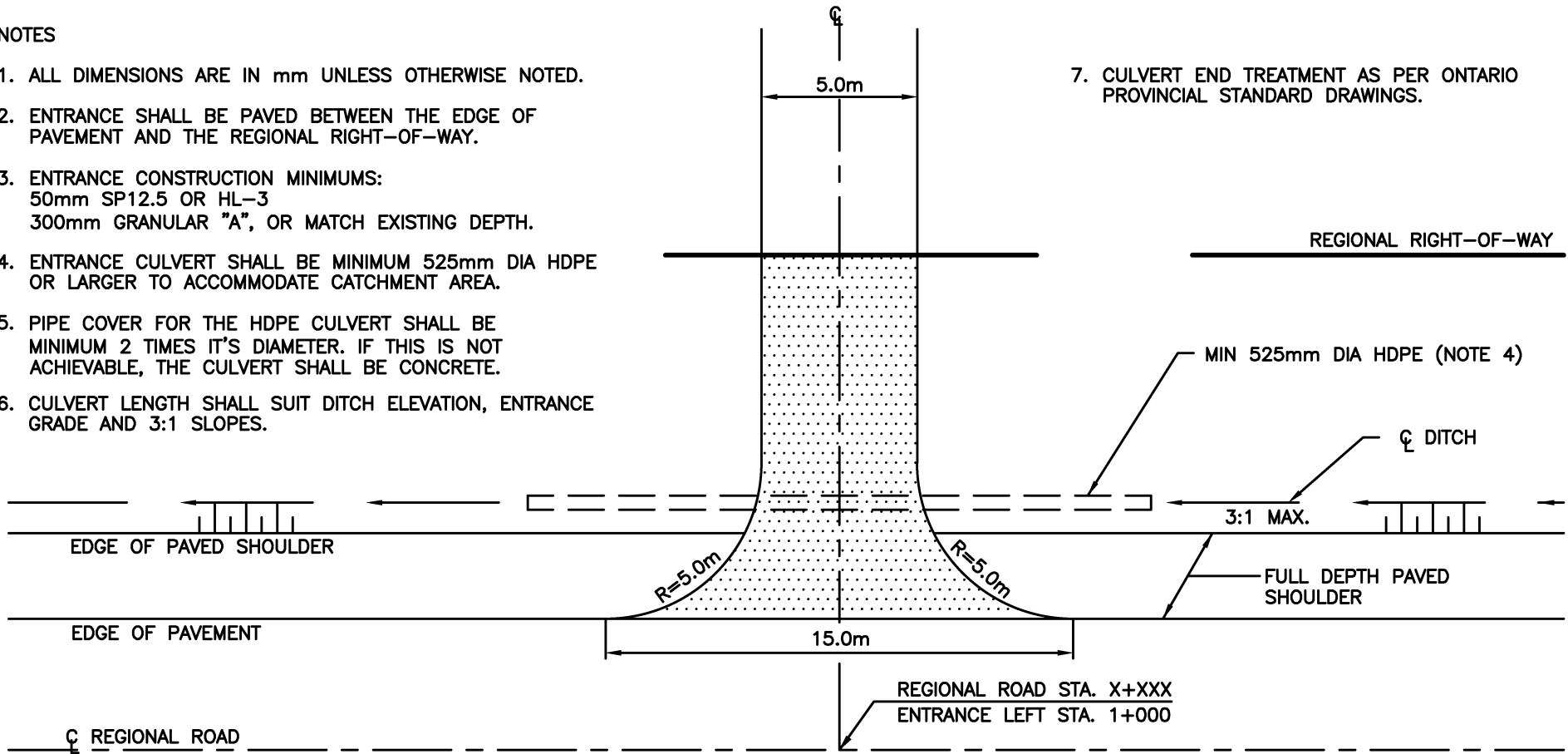
X

DS-213


NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ENTRANCE SHALL BE PAVED BETWEEN THE EDGE OF PAVEMENT AND THE REGIONAL RIGHT-OF-WAY.
3. ENTRANCE CONSTRUCTION MINIMUMS:
50mm SP12.5 OR HL-3
300mm GRANULAR "A", OR MATCH EXISTING DEPTH.
4. ENTRANCE CULVERT SHALL BE MINIMUM 525mm DIA HDPE OR LARGER TO ACCOMMODATE CATCHMENT AREA.
5. PIPE COVER FOR THE HDPE CULVERT SHALL BE MINIMUM 2 TIMES IT'S DIAMETER. IF THIS IS NOT ACHIEVABLE, THE CULVERT SHALL BE CONCRETE.
6. CULVERT LENGTH SHALL SUIT DITCH ELEVATION, ENTRANCE GRADE AND 3:1 SLOPES.

7. CULVERT END TREATMENT AS PER ONTARIO PROVINCIAL STANDARD DRAWINGS.



| | | | | | | | |
|-----|----------|-------|----------|-------|------------------|--------------------------|-----|
| | | | ROW | | EDGE OF PAVEMENT | REGIONAL ROAD | |
| 298 | | | | | | | 298 |
| 297 | | | | | PAVED SHLD. | MAX. 4% CHANGE IN GRADE | 297 |
| 296 | | | 10% MAX. | 5% | | | 296 |
| 295 | EXISTING | | | | | STA. X+XXX ENTRANCE LEFT | 295 |
| | 0+970 | 0+980 | 0+990 | 1+000 | 1+010 | | |



**Public Works
Transportation**

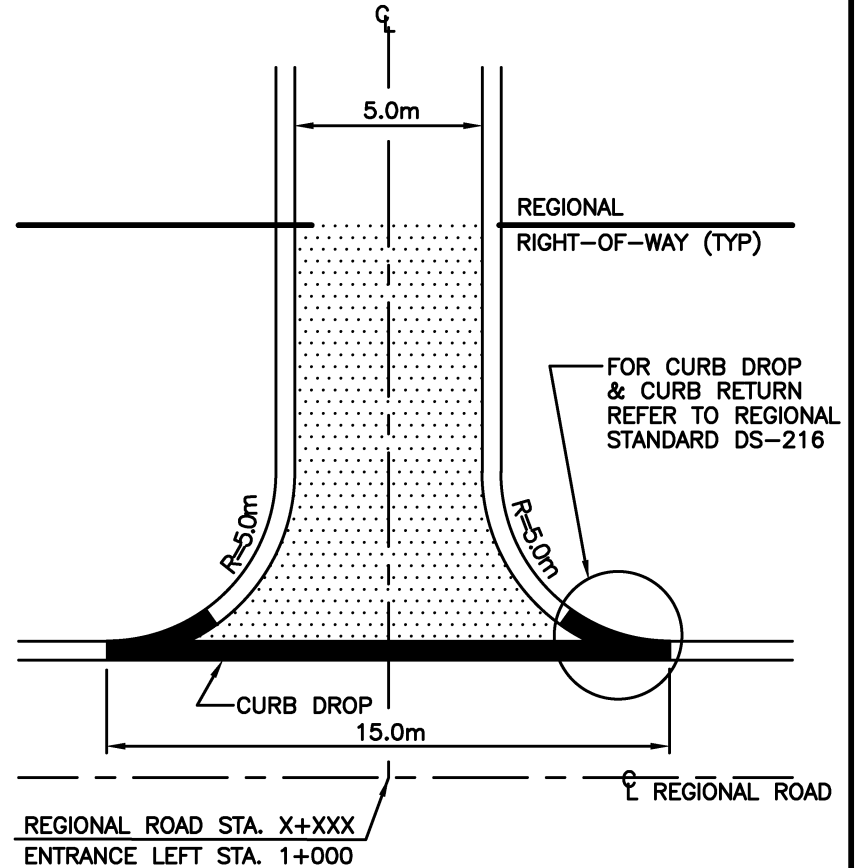
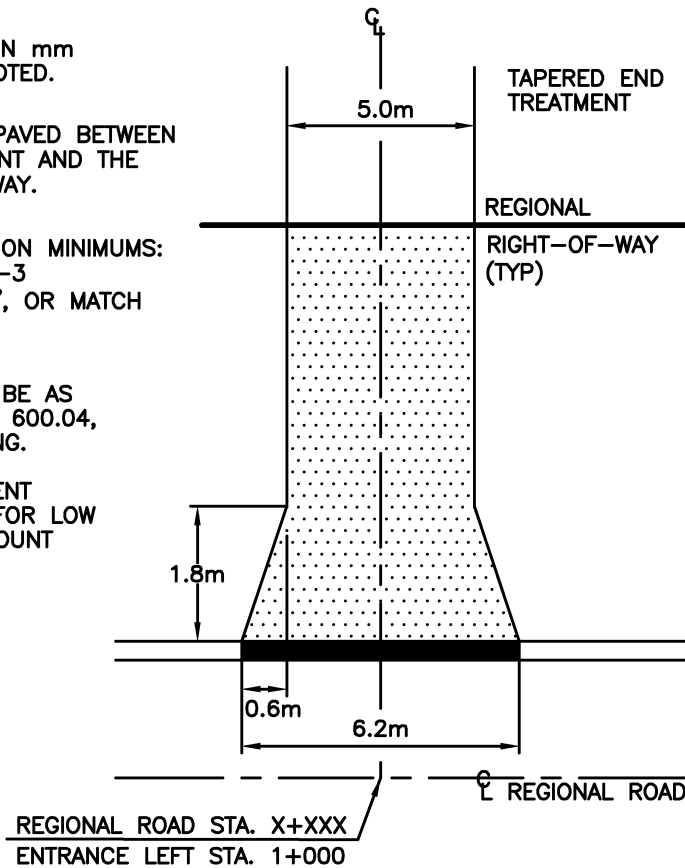
**RESIDENTIAL
ENTRANCE-RURAL**

| | | |
|--------------------|---|--------------|
| DATE: JANUARY 2023 | | SCALE N.T.S. |
| REV. | X | X |

DS-214

NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. ENTRANCE SHALL BE PAVED BETWEEN THE EDGE OF PAVEMENT AND THE REGIONAL RIGHT-OF-WAY.
3. ENTRANCE CONSTRUCTION MINIMUMS: 50mm SP12.5 OR HL-3 300mm GRANULAR "A", OR MATCH EXISTING DEPTH.
4. CONCRETE CURB MAY BE AS PER OPSD 600.11 OR 600.04, DEPENDING ON EXISTING.
5. TAPERED END TREATMENT SHALL BE RESERVED FOR LOW SPEED/HIGH SPEED COUNT ROADS.



| | | | | | | |
|-----|-------|------------------|-------|-------|--------------------------|-----|
| | | ROW | | | C REGIONAL ROAD | |
| 298 | | EDGE OF PAVEMENT | | | | 298 |
| 297 | | | | | MAX. 4% CHANGE IN GRADE | 297 |
| 296 | | 2% | 2% | | | 296 |
| 295 | | EXISTING | | | STA. X+XXX ENTRANCE LEFT | 295 |
| | 0+970 | 0+980 | 0+990 | 1+000 | 1+010 | |



**Public Works
Transportation**

**SINGLE FAMILY RESIDENTIAL
ENTRANCE - URBAN**

DATE: JANUARY 2023

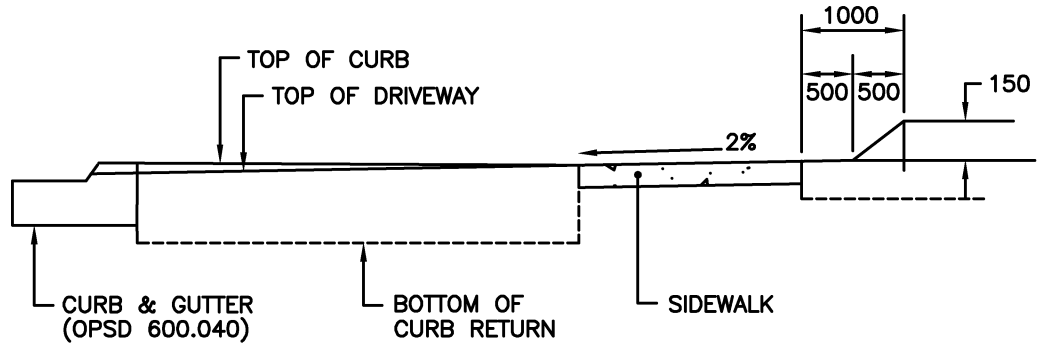
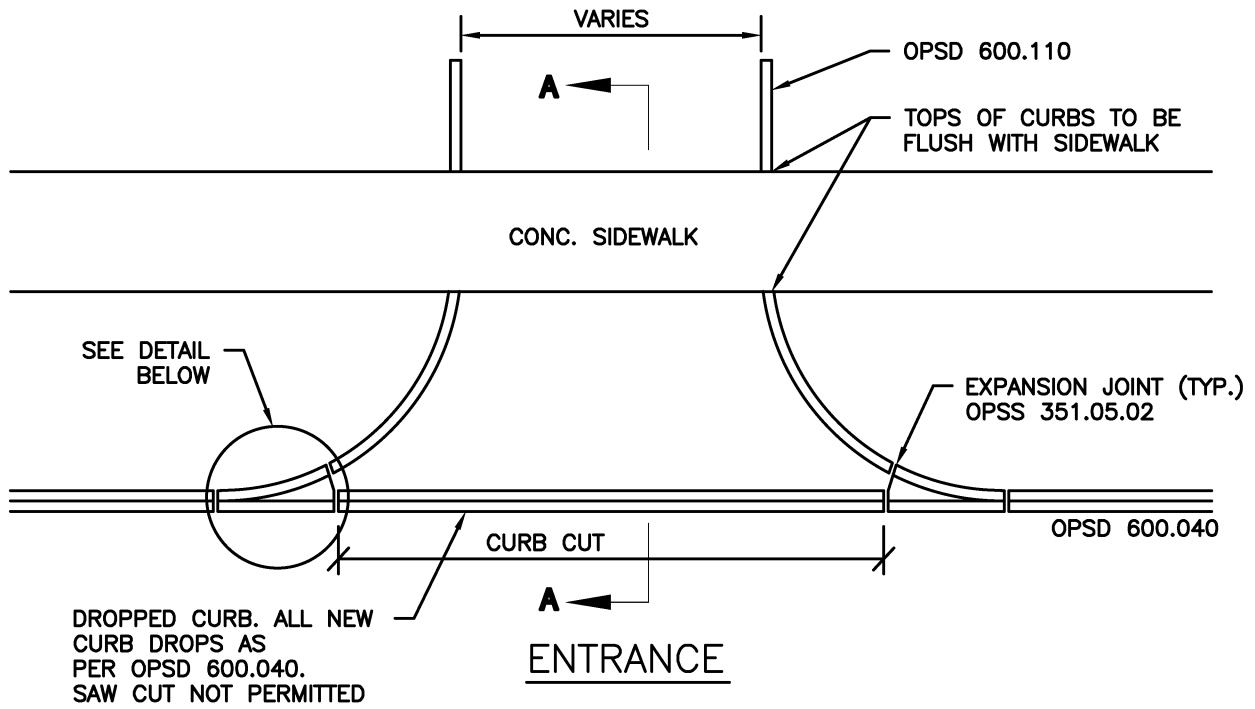
SCALE N.T.S.

REV.

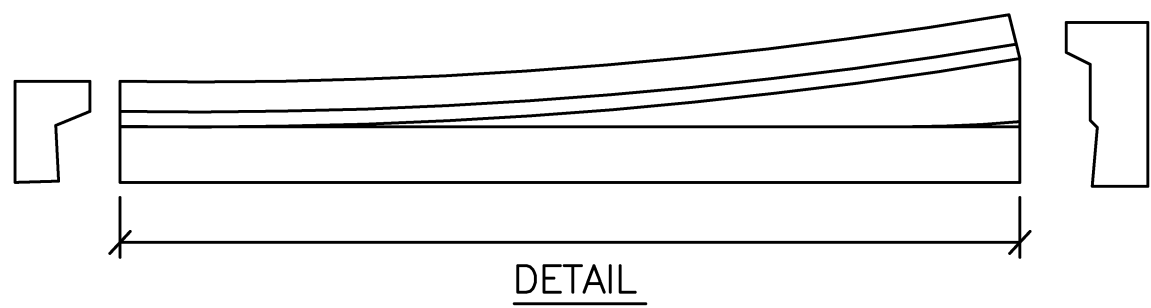
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DS-215



SECTION A-A



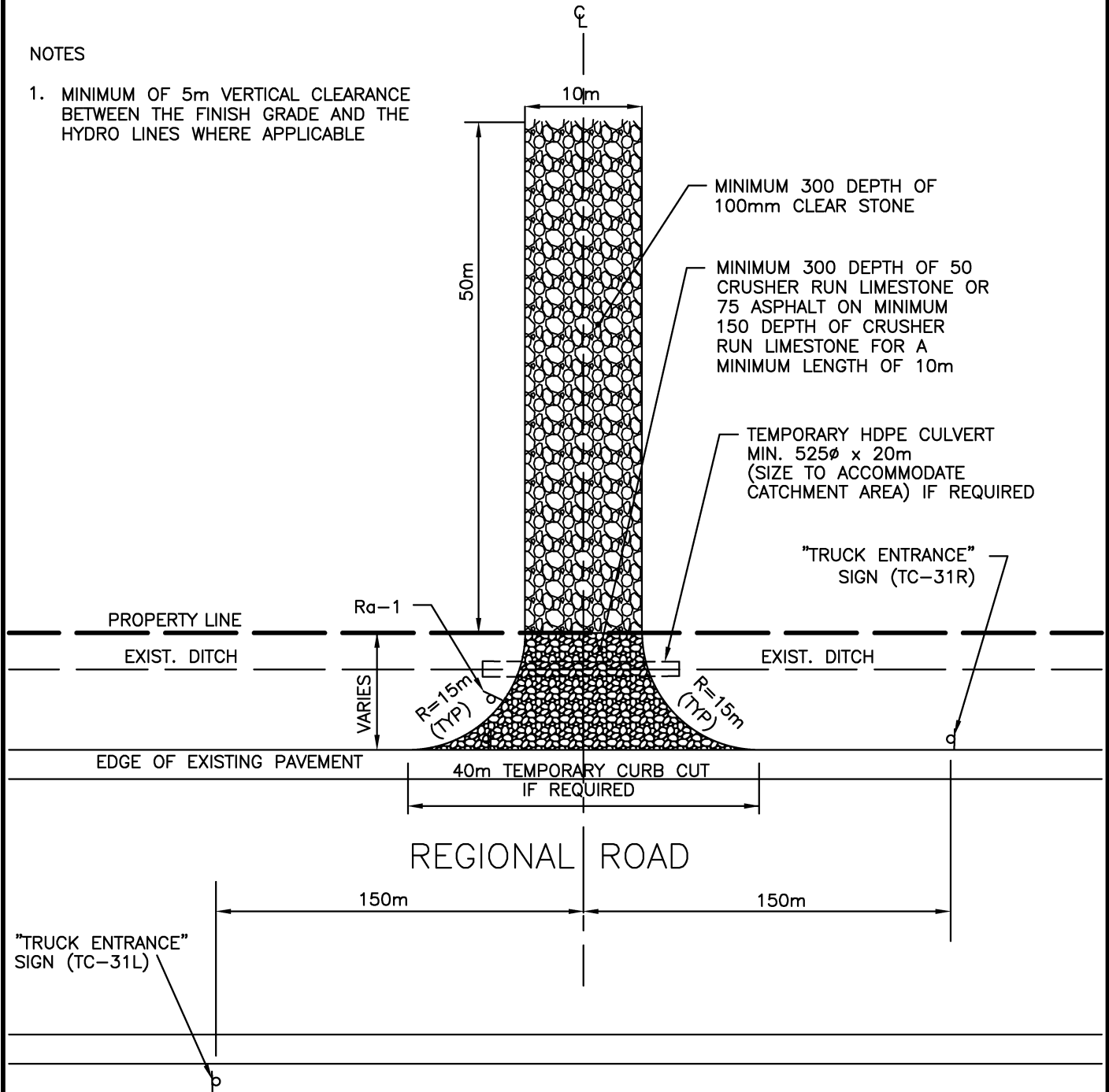
NOTES:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. EXISTING CURB AND GUTTER TO BE REMOVED AND REPLACED IN ONE POUR.
3. REFER TO DS-203 TO DS-209 FOR URBANIZED COMMERCIAL ENTRANCE DETAILS AND PAVEMENT STRUCTURE MAKEUP.

| | | |
|---|--------------|--------------|
| Public Works Transportation | | |
| <p>COMMERCIAL ENTRANCE CURB RETURN</p> | | |
| DATE: | JANUARY 2023 | SCALE N.T.S. |
| REV. | X X | DS-216 |


NOTES

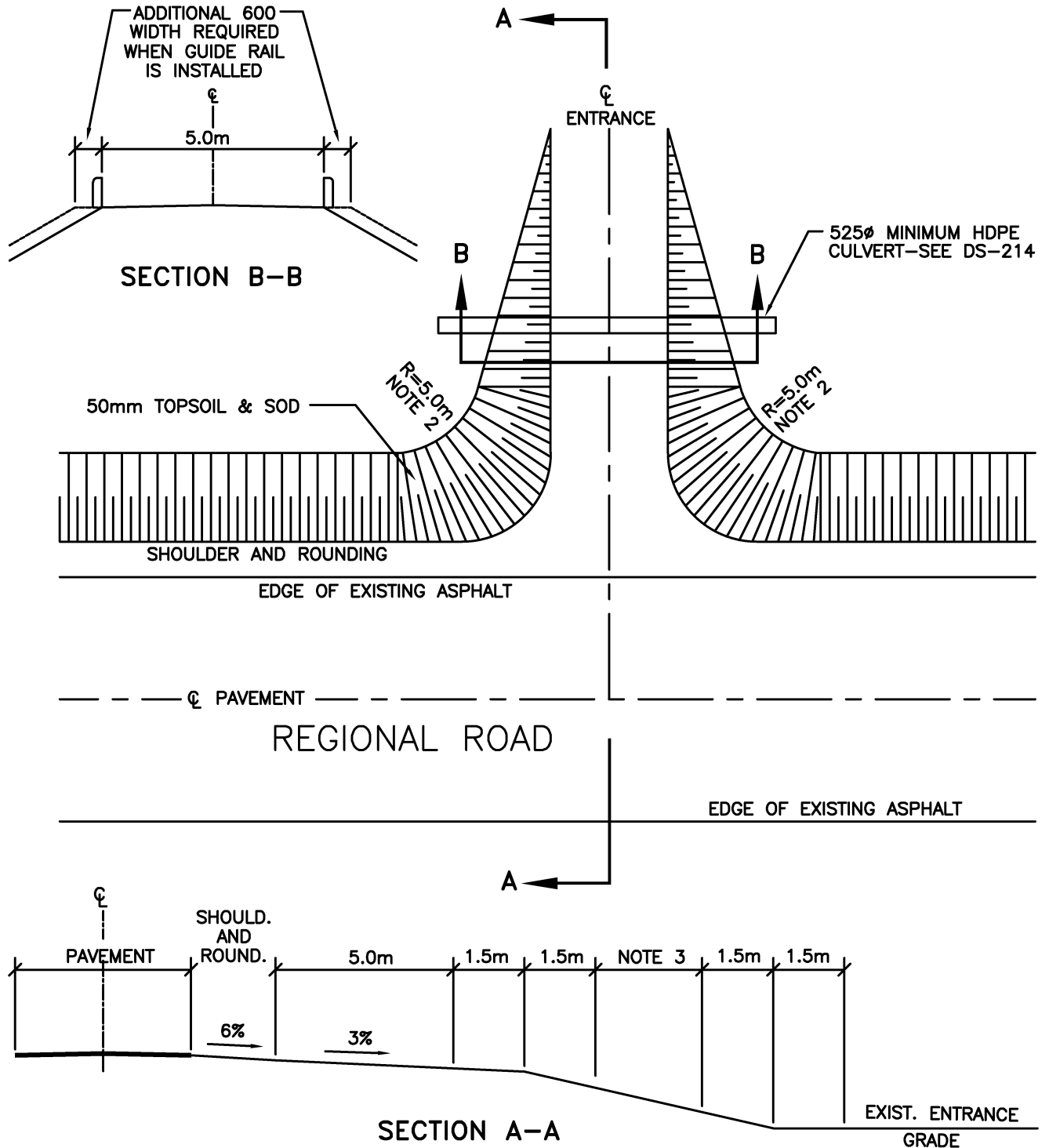
1. MINIMUM OF 5m VERTICAL CLEARANCE BETWEEN THE FINISH GRADE AND THE HYDRO LINES WHERE APPLICABLE



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. TEMPORARY "TRUCK ENTRANCE" SIGNS(TC-31) SHALL BE INSTALLED ON THE SHOULDER, 150M IN ADVANCE OF THE ACCESS (NOTE: SEE DETAILS ON USE OF THESE SIGNS IN THE ONTARIO TRAFFIC MANUAL, BOOK 7.) THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF OBTAINING, ERECTING AND MAINTAINING THESE SIGNS.
3. TEMPORARY CONSTRUCTION ACCESS SHALL BE REMOVED FROM THE REGIONAL ROAD ALLOWANCE AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

| | | | |
|--|---|--|---------------|
|  | | Public Works Transportation | |
| MUD MAT FOR TEMPORARY CONSTRUCTION ACCESS | | | |
| DATE: JANUARY 2023 | | SCALE N.T.S. | |
| REV. | X | X | DS-217 |



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. RADIUS TO BE 8.0m WHEN ENTRANCE IS USED FOR FARM EQUIPMENT.
3. TYPICAL ENTRANCE CONFIGURATION, WHEN CONDITIONS PERMIT. TYPICAL MAXIMUM GRADIENT: 6% FOR RESIDENTIAL ENTRANCES AND 10% FOR FARM AND FIELD ENTRANCES.
4. 200mm MINIMUM DEPTH OF GRANULAR "A"
5. MINIMUM PIPE COVER OF 300mm GRANULAR "A"



**Public Works
Transportation**

**SINGLE FAMILY RESIDENTIAL
ENTRANCE – RURAL**

DATE: MARCH 2023

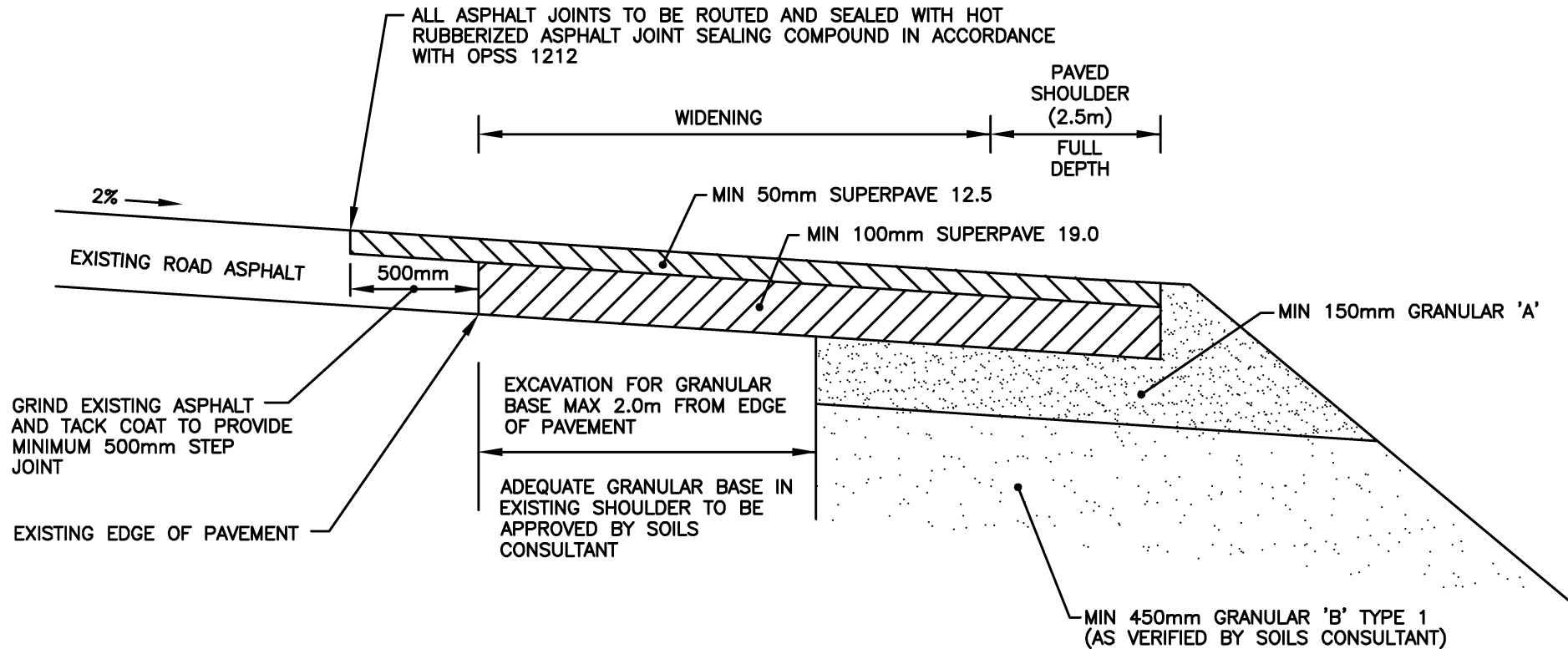
SCALE N.T.S.

REV.

X

X

DS-218



NOTES:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
2. A STEP JOINT IS REQUIRED AT ALL PAVED ENTRANCES MATCHING INTO A REGIONAL ROAD
3. RURAL ROADS MAY HAVE PARTIALLY PAVED SHOULDERS AND THEY ARE TO BE RESTORED WITH FULL ASPHALT DEPTH



**Public Works
Transportation**

ROAD WIDENING DETAIL

DATE: MARCH 2023

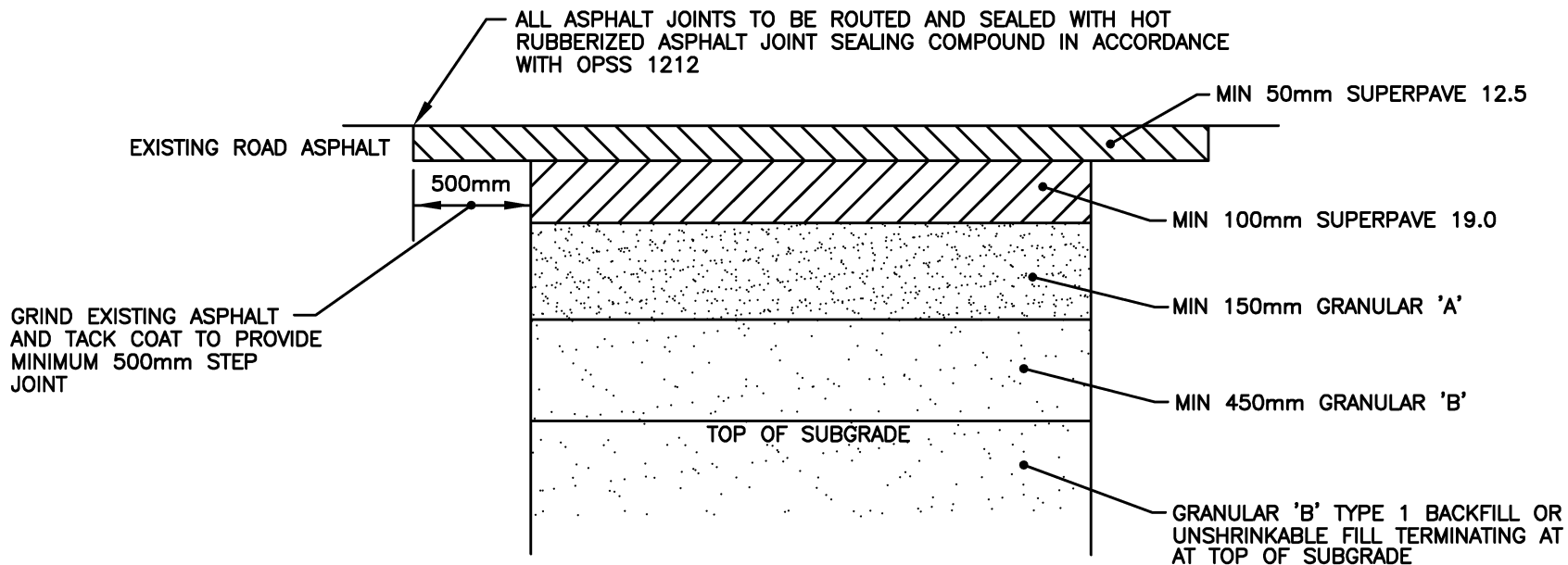
SCALE N.T.S.

REV.

X

X

DS-219



NOTES:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. WHERE EXISTING DEPTHS ARE GREATER THAN MINIMUMS SPECIFIED, TRENCH RESTORATION SHALL MATCH EXISTING REGIONAL ROAD STRUCTURE.
3. A STEP JOINT IS REQUIRED AT ALL PAVED ENTRANCES MATCHING INTO A REGIONAL ROAD.
4. SHOULDERS SHALL HAVE FULL DEPTH PAVEMENT. IF RURAL ROAD HAS PARTIALLY PAVED SHOULDERS, THEY ARE TO BE RESTORED WITH 50mm OF SUPERPAVE 12.5.

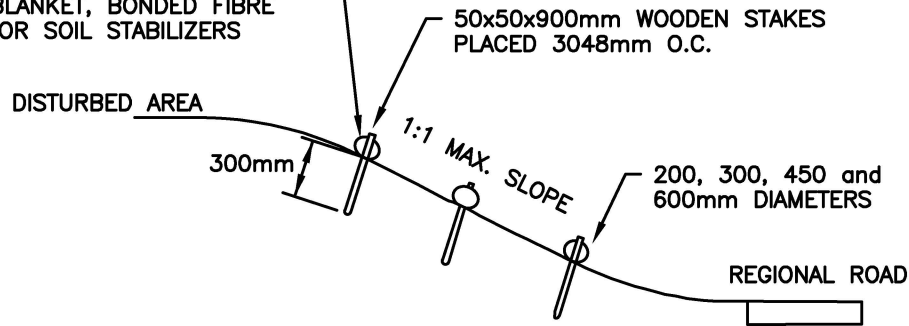


**Public Works
Transportation**

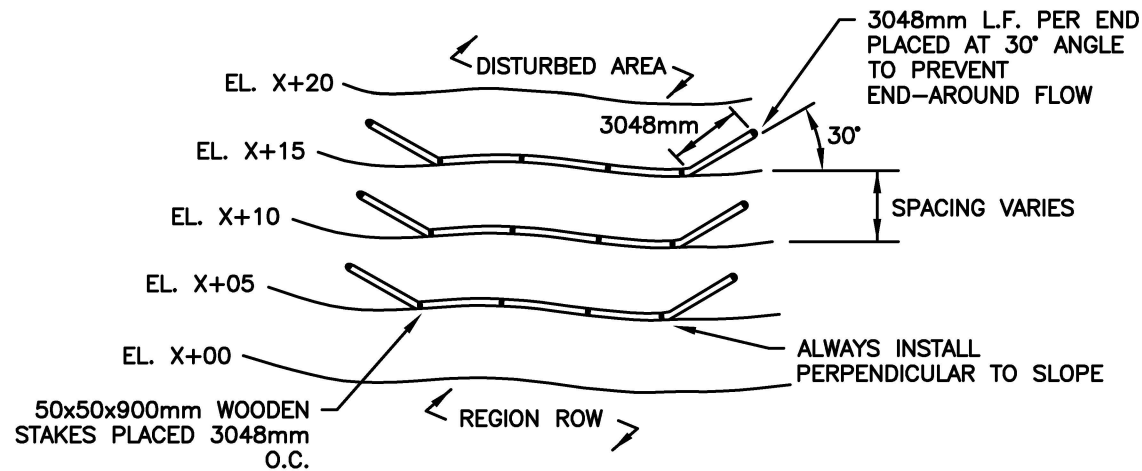
TRENCH RESTORATION DETAIL

| | | | | |
|-------|---|------------|--------------|--|
| DATE: | | MARCH 2023 | SCALE N.T.S. | |
| REV. | X | X | DS-220 | |

ONE OR MORE ROWS OF ESC SOCKS USE IN CONJUNCTION WITH SLOPE PROTECTION, ROLLED EROSION CONTROL BLANKET, BONDED FIBRE MATTRESS OR SOIL STABILIZERS

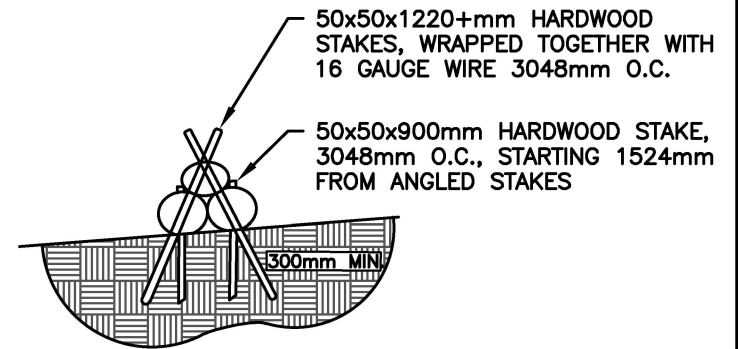


SECTION NTS

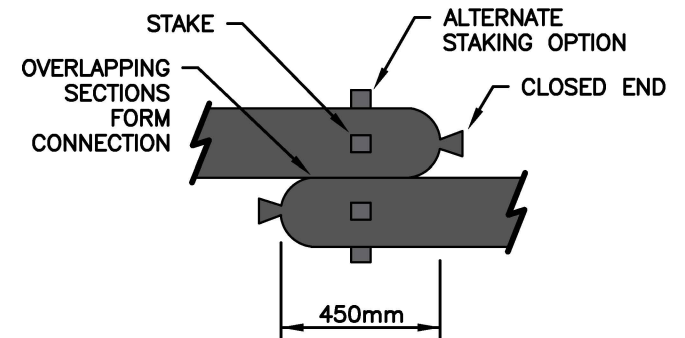


NOTES

1. ALL DIMENSIONS IN mm UNLESS OTHERWISE SPECIFIED.
2. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF THE SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF EFFECTIVE HEIGHT OF SOCK.
3. LOOSE FILTER MEDIA MAY BE BACKFILLED ON THE UPSLOPE SIDE OF THE SOCK TO ENHANCE PERFORMANCE.



ALTERNATE STACKING DETAIL



COMPOST SOCK CONNECTION/ATTACHMENT DETAIL



**Public Works
Transportation**

**SILTATION CONTROL ALONG
REGIONAL PROPERTY LINES**

DATE: JANUARY 2023

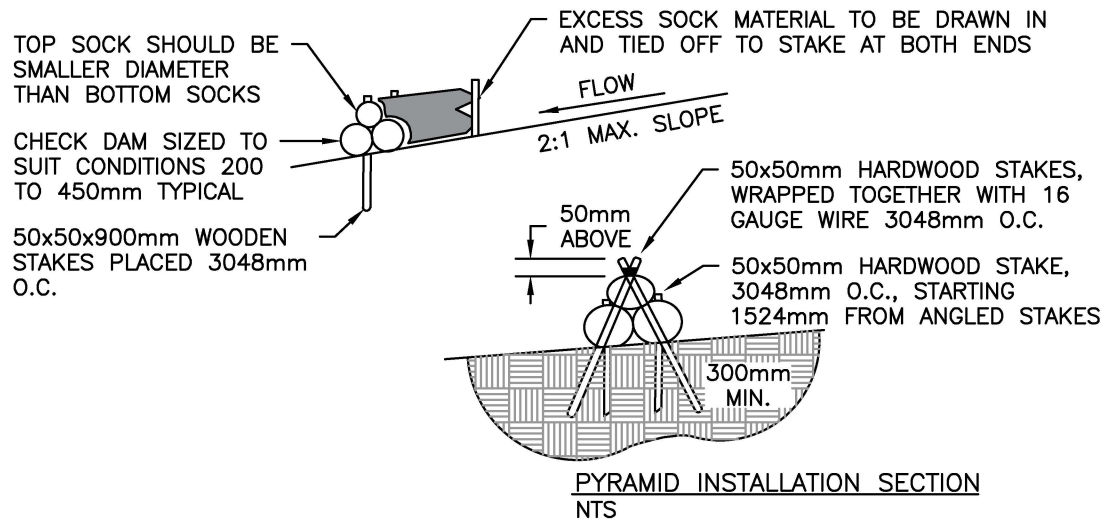
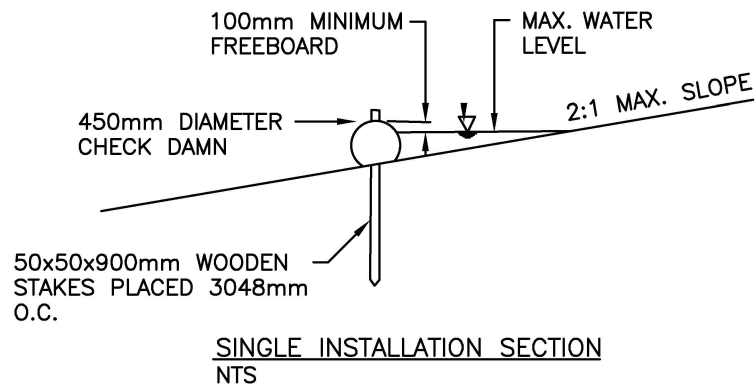
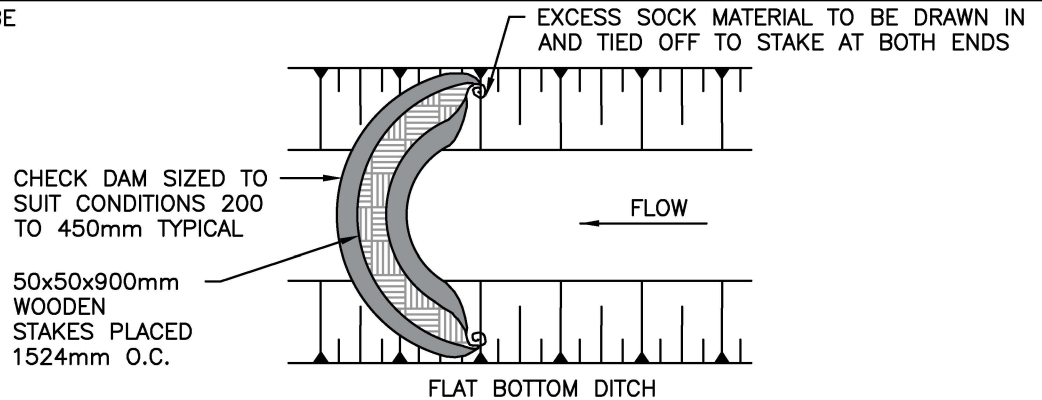
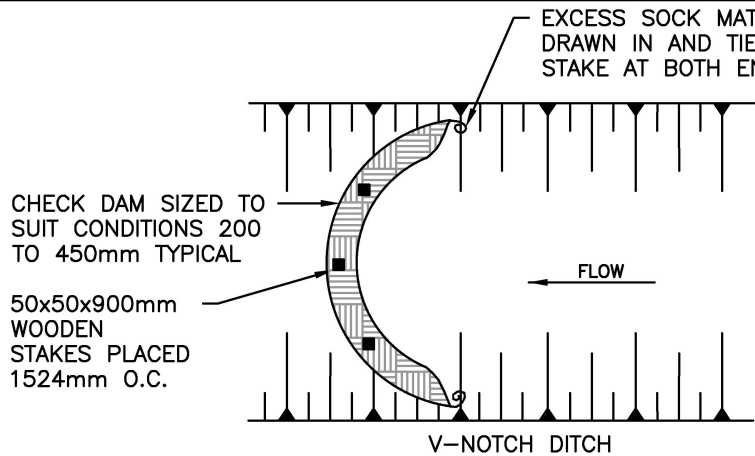
SCALE N.T.S.

REV.

X

X

DS-221



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
2. ALL MATERIAL TO MEET SPECIFICATIONS.
3. CHECK DAMS SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.
4. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS BEEN REACHED $\frac{1}{2}$ THE HEIGHT OF THE CHECK DAMN.
5. CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.
6. CONTRACTOR IS REQUIRED TO BE AN INSTALLER CERTIFIED BY THE MANUFACTURER OF THE PRODUCT.



**Public Works
Transportation**

**CHECK DAMS ON SWALES CONVEYING
FLOWS TOWARDS REGIONAL PROPERTY
LINES**

DATE: JANUARY 2023

SCALE N.T.S.

REV.

X

X

DS-222