



2025

PRIVATE

ACCESS

MANUAL

**Revised 2025-04-16 by:  
Public Works - Engineering Division**

## PRIVATE ACCESS KEY POINTS

- It is the responsibility of the property owner benefitted by the private access and the contractor constructing, removing, relocating or modifying the private access to ensure that construction, removal, relocation or modification complies with;
  - a) Private Access By-Law No. 49/2008,
  - b) The permit issued for the work, including any conditions attached to the permit,
  - c) The Standard Construction Specifications,
  - d) The Manual of Temporary Traffic Control, and
  - e) Schedule “C” of the Private Access By-Law No. 49/2008
- The City of Winnipeg will not establish property lines or determine the location of the private access.
- It shall be the Licensed Contractor’s responsibility to ensure that the approach flares **DO NOT** extend beyond the projection of the property line(s). The property lines are to be established by a surveyor and clearly marked. Any proposed deviation from this must be approved through email by the Senior Private Access Inspector. Any work completed without prior approval, will require reconstruction at the contractor’s own expense.
- The City of Winnipeg is not responsible to notify utilities for clearances.
- The City of Winnipeg is not responsible for workmanship as we do not monitor pours. *Pre-pour inspections* will be done to ensure standard designs (geometry) and conformance with the Private Access By-Law and applicable By-Laws are met. It is the **contractor’s responsibility** to prep and pour to City of Winnipeg Standard Construction Specifications and to perform quality work.
- The cost for maintenance and upkeep of approaches is the responsibility of the homeowner. The City **does not** reimburse for reconstruction of the approach.
- All residential approach flares have been changed to **0.75m** on each side as the new standard design. (*see Figures 11 - 20*)

## PRIVATE ACCESS KEY POINTS (Cont.)

- In some cases, an Underground Structures approval may be required prior to construction and an as-built to be submitted after. All drawings are to follow UGS Drawing Standards, please see following link: [https://legacy.winnipeg.ca/publicworks/permitsApprovals/pdf/Drawing-Standards-for-Underground-Structures\\_2024.pdf](https://legacy.winnipeg.ca/publicworks/permitsApprovals/pdf/Drawing-Standards-for-Underground-Structures_2024.pdf)
- Where construction of the private access has been completed without an inspection having been arranged, the permit holder(s) must, at no cost to The City of Winnipeg, either demonstrate, at their own expenses, to the satisfaction of a designated employee that the private access meets all the requirements of The City of Winnipeg Private Access By-law No. 49/2008 or must re-construct the private access at their own expense
- Unpaid permit(s) and/or no inspection will result in any damage deposit(s) not being released until it is proven that the approach meets all the requirements of The City of Winnipeg Private Access By-law No. 49/2008. This may result in the contractor's license being put under review and/or penalties being assessed.
- Full depth saw cuts are required for the removal of existing curb and gutter, partial depth saw cuts are not allowed. When saw cutting into the existing street, **it must be full depth saw cutting and must be 0.3m from the back of the curb**. Cutting to the face of curb only will not be allowed. The finishing material of the curb & gutter replacement must match the finishing material of the street (see *Figure 24, page 53*)
- If a manhole is present, please call or email the Area Approach or Senior Private Access Inspectors prior to excavating for the approach (see '*INSPECTOR CONTACTS*' **page 66**).

## PRIVATE ACCESS KEY POINTS (Cont.)

- **Flag person**
  - Please be advised that the Province of Manitoba has amended the Workplace Safety and Health Regulation, Manitoba Regulation 217/2006 with the Regulation 165/2012, regarding Flag person rules, materials, equipment and signage. This information is available at <http://gov.mb.ca>, search Regulation 165/2012.
  - Flag person training can be provided through the Construction Safety Association of Manitoba at 204.775.3171 and the Manitoba Heavy Construction Association at 204.947.1379.
  - The City of Winnipeg **DOES NOT** provide Flag person training.
- Concrete in approaches must be supplied by Concrete Suppliers approved by The City of Winnipeg (Refer to '**LINKS**', **page 67** for Approved Concrete Suppliers Link)
- Licensed Contractor is responsible to obtain **a copy of the private access permit** prior to construction of the approach.
- Only **LICENSED CONTRACTORS** may construct, remove, modify or relocate a private access.
- Residential Approval/Permit requires a single application. Commercial Private Accesses will require an application for approval and a permit individually. Permits and approvals expire after **24 months**.
- The maximum conforming width for a **Residential** Private Approach is **6.5 meters** at property line.
- When constructing Private Accesses that are less than 1.5 meters from obstructions including but not limited to; fire hydrants, hydro poles, and communication pedestals, it is the applicants responsibility to have these relocated and applicants must discuss options with an inspector (see '*Other Rules*', page 7 ; **Figure 28, page 57**)
- Approval from City Forester is required if private access is within 2 meters of the outside of a tree trunk. (see '*OTHER CONTACTS*', **page 66**)

## PRIVATE ACCESS KEY POINTS (Cont.)

- Commercial and Residential approach inspections require twenty-four (24) hours' notice via email to the Approach Inspector to arrange for an inspection. The City of Winnipeg will no longer accept phone calls for approach inspections but rather an email to the Residential/Commercial Approach Inspector will be required. Please see contact information update (see **page 66**)
- A cross fall of 2-4% will be required throughout the entire approach where proposed sidewalks will be constructed at the property line. This applies to newly installed or proposed sidewalks in New Developments.

The use of caution tape or non-approved signs is an illegal violation of the City's Streets By-Law 1481/77 and Traffic By-Law 1573/77, and is subject to prescribed fines. As outlined in the Manual of Temporary Traffic Control available on the City of Winnipeg website at:

[Manual of Temporary Traffic Control on City Streets - City of Winnipeg](#)

- For information on Approach Culverts, see '*Approach Culverts: Diameter, Length & Elevations & Materials*' and '*Installation of Culverts*' noted under 'Miscellaneous' (see **pages 17 and 64**).
- **Figure Drawings printed in this manual shall supersede the City of Winnipeg Standard Details (SD) and must be adhered to when constructing private accesses.**

### **DISCLAIMER**

**Information in this manual is intended to supplement the *Private Access By-law 49/2008* including all amending By-laws and the City of Winnipeg *Standard Construction Specifications***

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## DEFINITIONS

<b>“Boulevard”</b>	means the grass and/or earth portion within the Right-of-Way.
<b>“Lane”</b>	means a street not more than nine meters in width.
<b>“Private Access Contractor”</b>	means a contractor who holds a valid licence issued pursuant to By-law 49/2008.
<b>“Non-residential Property”</b>	means real property that is not residential property as defined in By-law 49/2008.
<b>“Private Access”</b>	means a private approach, private walk, loading bay, turning lane or median opening.
<b>“Private Access Permit”</b>	means a permit for the construction, modification, relocation or removal of a private access issued pursuant to By-law 49/2008."
<b>“Private Approach”</b>	means any modification to a street in order to facilitate vehicular access to private real property and includes a vehicular drive, road, path, culvert, lane widening or other structure constructed or maintained within a street between private real property and the roadway line for the use or benefit of the owner or occupant of the real property.
<b>“Private Walk”</b>	means the infrastructure installed from an adjacent roadway to private property in order to facilitate pedestrian access to the property; it includes the modification or removal of a curb, <u>if permitted</u> ; or the modification of the boulevard, including the installation of any surfacing material (asphalt or poured concrete) or substance that adjoins to the curb of the adjacent street.
<b>“Property Line”</b>	means the line between the street and adjacent private real property.

<b>“Regional Street”</b>	means a street listed in Schedule “E” of the Streets By-law No. 1481/77 or a street identified as a regional street in a successor by-law to the Streets By-law (Refer to ‘LINKS’ page 67).
<b>“Street”</b>	means any place part of which has been dedicated as a roadway, lane, footpath, walkway, according to The Real Property Act or which the public is ordinarily entitled to use for passage, with or without fee or charge therefore, and includes all the space within the City Right-of-Way.
<b>“Driveway”</b>	an extension of the approach on private property whereas an ‘approach’ is in the City of Winnipeg Right-of-Way.
<b>“Designated Employee”</b>	means the Director of Public Works and any person to whom the Director has delegated authority to enforce or administer all or part of the Private Access By-Law and Private Access Manual.
<b>“Standard Construction Specifications”</b>	means the Standard Construction Specifications for infrastructure work on City Streets approved by the Public Works Department and, unless otherwise specified, refers to the most recent edition at; (Refer to ‘LINKS’ page 67)
<b>“Conforming”</b>	when referring to a proposed or constructed private access, means a private access that conforms to the rules set out in sections 18 to 21 of the Private Access By-Law (Refer to ‘LINKS’ page 67)
<b>“Non-conforming”</b>	when referring to a proposed or actual private access, means a private access that fails to conform to the rules set out in sections 18 to 21 of the Private Access By-Law (Refer to ‘LINKS’ page 67)

# FREQUENTLY ASKED QUESTIONS

## **Is a Permit required to construct a private approach or private walk, or to modify an existing approach or walk?**

Yes. In most cases an approval/permit is required. Every owner desiring an approach or private walk or any relocation or widening thereof must make a written application.

Applications for Residential private approaches on Non-Regional Streets must be made at the **Customer Service Branch of the Public Work's Customer Services counter, 107-1155 Pacific Ave** or through the following link: [Residential Private Approach - Public Works - City of Winnipeg](#). You may also contact the Plan Approval/ Permit Technologist at **204.986.4113** or [pwdpermits@winnipeg.ca](mailto:pwdpermits@winnipeg.ca) for inquiries.

Applications for all Commercial private approaches and Residential private approaches on Regional Streets must be made at the following link: [Commercial Approach - Public Works - City of Winnipeg](#) and the form can be returned to [PWDPrivateAccess@winnipeg.ca](mailto:PWDPrivateAccess@winnipeg.ca).

The application will be reviewed to determine if it conforms with the Private Access By-law No. 49/2008.

**For more information on Approvals/Permits see 'GENERAL INFORMATION', page 61.**

**Approach Approval/Permit lapses 24 months after issue date.**

## **What information do I require to make an application?**

You should provide a copy of a **Surveyor's Building Location Certificate** showing the location and dimensions of the proposed approach. As an alternative, a well-drawn site plan showing all property dimensions, locations of buildings and the location and

dimensions of the proposed approach may be acceptable.

## **How can I obtain a Buildings Location Certificate?**

Most home-owners already have this document - it usually comes with the purchase of a house. A qualified Land Surveyor: <https://amls.ca/wp-content/uploads/2023/01/Survey-firms-2023.pdf> can provide the certificate.

## **What if my application does not conform to the Private Access By-law?**

If the approach does not conform to the By-law you will be advised as to why the application is non-conforming and informed of the process to follow should you wish to make an appeal to the applicable Community Committee for a residential approach or to the Standing Policy Committee for a commercial approach.

## **Who may construct a private access?**

No person other than a licensed contractor, the employees of a licensed contractor or a City employee acting in the course of his or her employment may construct, remove, modify or relocate a private access.

## **I have an existing approach that is no longer required am I responsible for the cost of removing it?**

Yes, the owner is responsible for the cost of removal of an existing private approach or part thereof. Only where it is considered by the City to be in the public interest to remove an approach that is no longer required will the cost of removing the approach be paid by the City.

**A list of licensed Private Approach Contractors is available from:**

**Online at:**

[www.winnipeg.ca/publicworks/permitsApprovals/approaches/default.stm](http://www.winnipeg.ca/publicworks/permitsApprovals/approaches/default.stm)

**Are there City Standards that must be followed when constructing a private approach/walk?**

Yes. One of the primary purposes of this book is to provide you with the minimum standards that must be met. These minimum standards in no way prevent you from constructing an approach that exceeds these standards. In fact, in certain circumstances it is recommended that the approach design be increased.

**There is a manhole in the boulevard in the location where I wish to construct my private approach. How will this affect my approach?**

The property owner is financially responsible for any adjustments of manhole/catch basin (see 'Manhole & Catch Basin Adjustment and Isolations (Reference Spec No. CW 3210 & CW 2130)' for details). If the approach is to be concrete it will be necessary for you to construct an isolation (see **Figure 22&Figure 23**).

Any valve box or curb stop adjustments can only be done by a **City Licensed Sewer/Water Contractor**. (see '**LINKS**'; **Page 67**)

**Be sure to read the section on 'DENSITIES, BOULEVARD & APPROACH SETTLEMENT' on **Page 25 & 26**.**

**Who is responsible for repairing a Private Approach?**

The **owner of the approach** is responsible for the cost of reconstruction, reinstallation, repair, alteration or maintenance. Should a private approach deteriorate to an unsafe

condition the City can give written notice to the owner ordering the repairs to be done at the owner's cost.

**The street pavement is being renewed will I be required to pay for any necessary alterations to my private approach?**

No. The City shall assume the costs, whenever the City widens, reconstructs or resurfaces a pavement and thereby necessitates alteration or reconstruction of a lawful private approach or walk. If the approach is not constructed to the same standard as the abutting street, the City may assess the cost of improving the approach against the benefiting property.

**The City's Waterworks crews removed a part of my approach while carrying out a repair to the Watermain will they be repairing the approach?**

Yes. When the City, a utility company or others do work in a street that damages a lawful private approach or walk the person responsible for the damage shall assume the entire cost of restoring the approach or walk to its original condition. In most cases the utility will obtain a permit to make the excavation and will pay to the City the fees required to do the restoration.

**My approach that was inspected by the City of Winnipeg has cracked. Is the City liable?**

The City inspects the approach for design, layout and dimensions. The City was not a part of any agreements made between the owner and contractor or owner and supplier. **It is the owner's responsibility to ensure that minimum standards for both materials and construction practices are met. These standards are discussed later in this booklet.**

# GENERAL/SPECIFIC RULES

## Non-Conforming Private Accesses

### General Rules re. Private Access

17(1) deleted 81/2021

17(2) deleted 81/2021

### Specific Rules re. Residential Approaches <sup>1</sup>

**18.** Private approaches benefitting residential properties are non-conforming if they fail to conform to the following rules:

**(a)** an approach must not be less than 3 metres or greater than 6.5 metres wide measured along the property line;

**(a.1)** the private access must not be detrimental to the safe and efficient movement of vehicular and pedestrian traffic upon the adjacent street;  
added 81/2021

**(b)** subject to subsection 25(3), a private approach must not extend beyond the lot line<sup>2</sup> of the adjacent property projected into the street if

(i) the approach could negatively impact an existing or future conforming private approach benefitting an adjacent property; and

(ii) an alternate location of the approach is possible, taking into account the proposed or actual location of buildings on the lot;

**(c)** an approach must not be constructed or allowed to exist where a lane at least 4.5 metres wide is adjacent to the property, whether or not the lane is improved.

**Notes: 25(3)** Notwithstanding clause 18(b) and subject to subsection (4), in order to accommodate an approach benefitting adjacent property, the Director may authorize the removal or modification of that portion of a private approach that has been permitted to extend beyond the lot line of the adjacent property projected onto the street.

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<sup>1</sup> The City of Winnipeg Private Access By-Law 49/2008 & 81/2021:

<https://clkapps.winnipeg.ca/DMIS/docext/ViewDoc.asp?DocumentTypeld=1&DocId=4136>  
<https://clkapps.winnipeg.ca/DMIS/docext/ViewDoc.asp?DocumentTypeld=1&DocId=7995>

<sup>2</sup> A Property Map can be viewed at the following link & a list of Manitoba Land Surveyors:  
[https://legacy.winnipeg.ca/ppd/maps\\_aerial.stm](https://legacy.winnipeg.ca/ppd/maps_aerial.stm)

**25(4)** The cost of the removal or modification referred to in subsection (3) must be borne by the owner of the property being benefitted by the approach being constructed.

**25(5)** Notwithstanding that a private access has been approved by the City and is otherwise in compliance with this By-law, where Transport Canada or a railway company requires the removal, modification or relocation of the private access as a condition of maintaining a railway crossing, it must be removed, modified or relocated at the expense of the owner of the benefitting property.

An application that does not meet one or more of the General/Specific Rules must be rejected by the officer for the City.

## Licence for Contractors

### Criteria for issuing contractors licenses

The Private Access Licence will be categorized by a tier classification system:

- **Tier 1:** Residential Private Accesses on ***Non-Regional Streets***
- **Tier 2:**  
Commercial Private Accesses on ***Regional & Non-Regional Streets***  
and Residential Private Accesses on ***Regional Streets*** + Tier 1
- **Tier 3:** Roadway Modifications (Median Modifications/Openings and Closures, Turning Lanes, Loadings Bays) + Tier 2

**26(1)** Subject to subsection (2), the Director shall issue an annual contractor's licence to a person who

- (d) has demonstrated the knowledge and ability to meet the requirements of this By-law and other applicable by-laws, the Standard Construction Specifications and the Manual of Temporary Traffic Control.

If a Licenced Private Access contractor fails to meet the requirements of Section 26(d) of the Private Access By-Law<sup>1</sup>, the Director or designated City employee can act under Section 28(1) of the By-law to suspend the contractor's license or to take another action referred to in that subsection.

Please contact the Supervisor of Right-of-Way Management for licensing inquiries at [OTarasov@winnipeg.ca](mailto:OTarasov@winnipeg.ca).

## Other Rules

### Underground Structures Approval

The following situations require plans to be submitted to Underground Structures at [UGSapproval@winnipeg.ca](mailto:UGSapproval@winnipeg.ca) for review and approval **prior** to commencement of construction. **All drawings are to follow the UGS Drawing Standards<sup>3</sup> prior to submission:**

- The installation of detectable paving bands within an approach must follow the City of Winnipeg *Accessibility Design Standards*. This is typically required in the 'Exchange District' and on longer approaches/loading bays. (See '**LINKS**' page)
- An approach shall be constructed such that the minimum of one and a half (1.50) meters of clearance is maintained from all obstructions. (See **Figure 28**). Obstructions include but not limited to; light standards, hydro poles, fire hydrants, and communication pedestals/vaults. The cost of removal, relocation or replacement of these obstructions shall be borne by the property owner.
  - An application must be submitted to MB Hydro for any type of hydro structure (See '**LINKS**') and a hydro drawing must be submitted to Underground Structures.
  - Any relocation of a fire hydrant requires approval from the Water and Waste Department and the applicant should email [WWD-Permits@winnipeg.ca](mailto:WWD-Permits@winnipeg.ca) to inquire.
- **For any major changes to the sewer or land drainage systems that require structures to be adjusted/added and cut permits to be issued.**

### Private Access Removals

Where the removal of an approach requires replacement of new City Infrastructure including but not limited to roads, curbs, sidewalks and boulevards; only a **restoration contractor**<sup>4</sup> licenced under the *Streets By-law No. 1481/77* shall be authorized to perform full restorations to the street.

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<sup>3</sup> UGS Drawing Standards:  
[https://legacy.winnipeg.ca/publicworks/permitsApprovals/pdf/Drawing-Standards-for-Underground-Structures\\_2024.pdf](https://legacy.winnipeg.ca/publicworks/permitsApprovals/pdf/Drawing-Standards-for-Underground-Structures_2024.pdf).

<sup>4</sup> Restoration Contractor:  
<https://legacy.winnipeg.ca/publicworks/permitsApprovals/cutRestorations/contractors.stm>

For any **Commercial** approach removals that require a large amount of City Infrastructure to be replaced, or require detectable paving bands to be installed according to the City of Winnipeg *Accessibility Design Standards*, drawings must be submitted to **Underground Structures** for approval prior to construction as indicated in section **2.2 (1)** and as-builts are to be submitted after the work has been completed as per **2.2 (3)** of the *Streets By-Law No. 1481/77*.

## Protection of Trees

The Contractor shall take precautionary steps as specified to prevent damage from construction activities to existing boulevard trees within the limits of the construction area. All damage to existing trees caused by the Contractor's activities shall be repaired to the requirements of the City Forester or the designate.

- All approaches must maintain at least two (2.0) meters clearance from the outer edge of the trunk of a tree unless approval is granted by the City Forester (**See 'OTHER CONTACTS', page 66**)
- The contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within two (2) meters of trees.
- Trees identified to be at risk by the Contract Administrator are to be strapped with 25 x 100 x 2400mm wood planks, or suitably protected as approved by the Contract Administrator.
- Any pruning of tree roots or branches, and/or tree removal<sup>5</sup> work must be performed by a Qualified Arborist, which can be found on the Urban Forestry Branch's website under 'Guidelines for maintaining City owned trees using a qualified contractor'.

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<sup>5</sup> Urban Forestry: [Maintaining City-owned trees - Urban Forestry - Parks and Open Space - Public Works - City of Winnipeg](#)

## Use of Street Permit

All activities that impede or temporarily occupy the Street (commonly referred to as the right-of-way) require a Use of Street permit. There are different types of Use of Street permits depending on the activity, described at the following link:

[Permits - Public Works - City of Winnipeg](#)

The Traffic Management Branch must be contacted for permission to work on a [Regional Street](#) in accordance with Section 2.00 of the [Manual of Temporary Traffic Control](#) in addition to obtaining a Use of Street permit. Request a [Street/sidewalk closure](#). To inquire about obtaining a Use of Street permit please email [PWD-UOS-Permits@winnipeg.ca](mailto:PWD-UOS-Permits@winnipeg.ca) or phone 204-986-6006.

It is the contractor's responsibility to submit a lane closure request through the Lane Closures App so that safety and traffic regulations can be adhered to. For any impacts to bus stops, parking, regulatory signs, traffic signals or pedestrian corridors, the impacted City groups will be notified when a request has been submitted through the **Winnipeg Lane Closures Application**<sup>6</sup>.

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<sup>6</sup> Winnipeg Lane Closures: [Login - Lane Closures \(winnipeg.ca\)](#)

## APPROVALS

An application for a private approach or private walk which meets all of the Rules shall be approved and an Approval/Permit issued for construction and installation, unless the City is of the opinion that the approval of such approach or walk would be detrimental to the public interest. Example: Property owner of a corner lot wishes to construct a private approach on the side of the lot which is adjacent to a collector/bus route.

### Non-Conforming Private Approaches

The Private Access By-law provides the property owner with a method of appealing an application that is refused;

- a) because it does not conform with one or more of the Rules,
- or;
- b) on the basis that it is detrimental to the public interest.

Upon application for a private approach or private walk that does not comply with the Rules, or is determined to be detrimental to the public interest, the City will notify the applicant why the application has been denied and outline the procedure that the applicant can follow should the applicant wish to appeal to the designated Committee.

Where an application has been denied on the basis that it does not conform with one or more of the Rules of the By-law, the onus shall be on the owner to satisfy the Committee that:

- i. no feasible method of providing access is possible within the terms of Rules;
- ii. the approach is necessary for the intended use of the property, and;
- iii. the granting of a variation of the terms of Rules will not be detrimental to the public interest.

Where an application has been denied on the basis that it is detrimental to the public interest the onus shall be on the City to satisfy the Committee of such detriment.

Applicants are welcome to attend Community Committee meetings, for information regarding the process, call the Plan Approval/Permit Technologist; 204.986.4113 or [PWDpermits@winnipeg.ca](mailto:PWDpermits@winnipeg.ca) .

The Private Access By-law contains a number of Schedules that restrict the construction of approaches on:

Most main Arterial Streets that do not have service roads; and streets where there is other means of access to the property. (Schedule 'A' & 'B' of the Private Access By-Law)<sup>1</sup>

## Development Permit & Variance

According to the Zoning by-law 200/2006, parking to the front is permitted provided it leads to a parking space (e.g. garage or side/rear yard).

An application must be submitted to Planning, Property & Development (PP&D) and Zoning for a Development permit and Variance to allow any widening/geometry change beyond the width of a garage building that **does not lead to a garage or side/rear yard**. The approval of the approach and driveway will be based on the following:

- the geometry of the driveway must be approved from PP&D and Zoning
- a variance is obtained prior to the issuance of an approach permit
- issuance of an approach permit
- an approval during inspection prior to the placement of surface material from the Approach Inspector.

### The following items will be exempt from requiring a development permit:

- Repair of parking areas with no change to the existing approach or surface material type. Repair to follow private approach guidelines and setbacks.
- Detached garages accessory to single and two-family dwellings provided they follow private approach guidelines and setbacks and zoning regulations
- Driveways to off-street parking areas, provided they follow private approach guidelines and setbacks

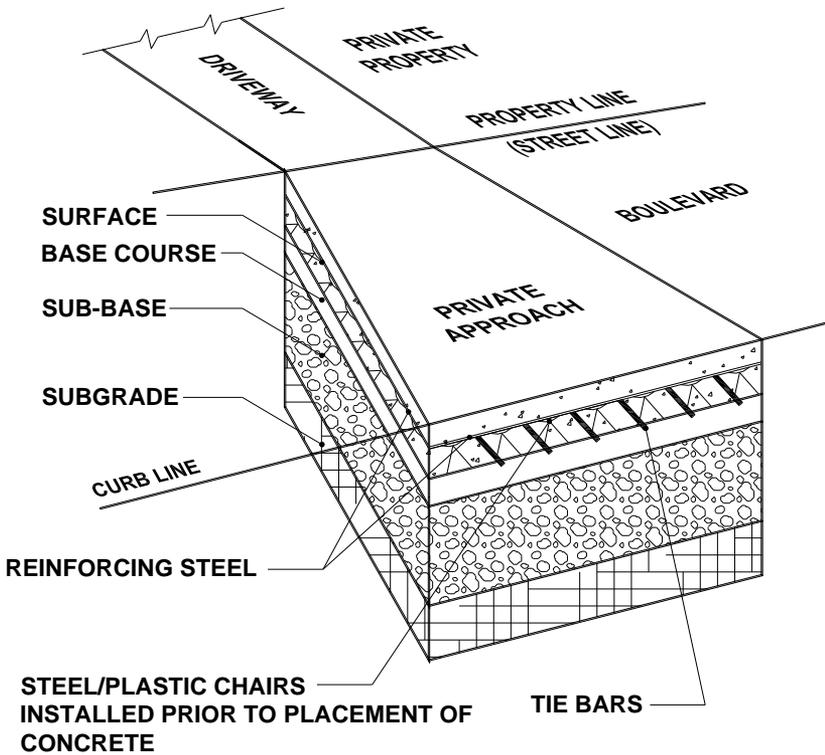
For more information regarding the development permit exemption list, please see webpage<sup>7</sup>.

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<sup>7</sup> Development permit exemption list:

<https://legacy.winnipeg.ca/ppd/developmentpermits/default.stm?eid=e9e4637df624f9e0cf07a8d636dbc5a>

# CONSTRUCTION MATERIALS



## Material Layers

# LAYER MATERIALS

THE FOLLOWING ARE **MINIMUM STANDARDS** DERIVED FROM THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS<sup>8</sup>. **IT IS THE RESPONSIBILITY OF THE OWNER/APPLICANT/LICENSED CONTRACTOR TO ENSURE THAT THESE STANDARDS ARE MET OR EXCEEDED.**

SEE THE FOLLOWING IMPORTANT INFORMATION ON:

- 1) **PAGE 25 FOR IMPORTANT INFORMATION ON STANDARD PROCTOR DENSITIES**
- 2) **PAGE 26 FOR IMPORTANT INFORMATION CONCERNING BOULEVARD & APPROACH SETTLEMENT**
- 3) **PAGE 27 – 29 FOR APPROACH DETAILS & SURFACE MATERIAL RESTRICTIONS**

## **SUBGRADE**

### ALL SURFACES (CW 3110)

Suitable site material	Compact to a min. 95% Standard Proctor Maximum Dry Density
Unsuitable material	Replace a min. depth of 300mm with sub-base material. See CW 3110 for acceptable sub-base materials (see also Crushed Sub-Base Material Grading Requirements ( <b>page 20</b> ) and compact to specified density.

## **SUB-BASE**

### ALL SURFACE TYPES (EXCEPT GRAVEL – Where Clay material is used)

(WHERE THERE IS UNSUITABLE SUBGRADE MATERIAL) (CW 3110)

Type	See CW 3110 for acceptable materials See also Crushed Sub-Base Material Grading Requirements ( <b>page 20</b> )
Min. thickness	300mm (Placed in compacted layers not exceeding 150mm)
Max. aggregate size	50mm
Gradation	As specified in CW 3110

<sup>8</sup> The City of Winnipeg Standard Construction Specifications are available in Adobe Acrobat (PDF) format at The City of Winnipeg, Corporate Finance, Materials Management internet site [www.winnipeg.ca/matmgt/Spec/Default.stm](http://www.winnipeg.ca/matmgt/Spec/Default.stm)

see also Crushed Sub-Base Material Grading Requirements (**page 20**)

Compaction

As specified in **section 3.3.8 of CW 3110 – R22**

### FOR INTERLOCKING PAVING STONE (CW 3330)

#### FOR COMMERCIAL APPROACHES (CW 3335)

Type Lean Concrete Mix over Sub-base

#### Lean Mix Concrete

Min. Thickness	150mm
Aggregated size	20mm nominal
Slump	25-75mm
Compressive Strength	5-10 MPa @ 28 DAYS
Air content	5-8%
Cement content	150 kg/cu.m.
Fly ash (10% of cement)	15 kg/ cu.m.

#### FOR COMMERCIAL & RESIDENTIAL APPROACHES (CW 3330)

Type	Granular A or B
Min. thickness	300 mm (placed in two 150mm layers)
Max. aggregate size	50mm
Gradation	well graded
Compaction	100% Standard Proctor Density

### **BASE COURSE**

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#### FOR CONCRETE (CW 3110)

Types	See CW 3110 for acceptable base course materials (see also Base Course Material Grading Requirements ( <b>page 20</b> ) (Commercial – Granular A or B, Residential – Granular A, B, or C) <sup>9</sup>
Compaction	100 % Standard Proctor Maximum Dry Density
Min. thickness	75mm

#### FOR PAVING STONES (CW 3330 & 3335)

Types	Bedding Sand, conforms to CSA-A23.1 Section 2.2.1 for fine aggregate, see CW 3310.  Filler Sand (max. aggregate size of 2.5mm)
Min. thickness	See also Bedding Sand Grading Requirements ( <b>page 21</b> ) 30mm of Bedding Sand <u>without</u> lean mix concrete base (CW 3330)  15mm of Bedding Sand <u>with</u> lean mix concrete base (CW 3335)

#### FOR ASPHALT (CW 3410)

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<sup>9</sup> Refer to Base Coarse Material Grading Requirements (page 20) for more information

Types	See CW 3110 & CW 3410 for acceptable base coarse materials (See also Base Coarse Material Grading Requirements, <b>page 20</b> ). (Commercial – Granular A or B, Residential – Granular A, B, or C) <sup>9</sup>
Compaction	100% Standard Proctor Density
Min. Thickness	200mm <i>Residential</i> (placed in two 100mm layers)  300mm <i>Commercial</i> (100mm Base Coarse + 200mm Sub-base – 50mm nominal)

## **DRIVING SURFACES**

### **CONCRETE (CW 3310 – R18)**

#### **(Concrete Properties and Definitions noted on pages 22-23)**

**Note: All concrete placed must be supplied by an Approved Concrete Supplier.** A list of these suppliers is made available on the City of Winnipeg Website @ [https://legacy.winnipeg.ca/finance/findata/matmgt/std\\_const\\_spec/current/Docs/Approved\\_concrete\\_suppliers.pdf](https://legacy.winnipeg.ca/finance/findata/matmgt/std_const_spec/current/Docs/Approved_concrete_suppliers.pdf)

### **HYDRAULIC CEMENT**

As specified under *section 2.3 of CW3310*.

### **CONCRETE MIX DESIGN**

#### **FOR RESIDENTIAL APPROACHES**

Type	Type 2 or 1 (see <b>pages 22-23</b> )
Min. Thickness	150mm
Min. Compressive Strength	32 MPa @ 28 DAYS

#### **FOR COMMERCIAL APPROACHES**

Type	Type 1
Min. Thickness	200mm
Min. Compressive Strength	35 MPa @ 28 DAYS

#### **COLD WEATHER CONCRETE (Replaces all types when Cold Weather exists)**

Min. Compressive Strength	35 MPa @ 28 DAYS 24 MPa @ 3 DAYS 20 MPa @ 1 DAY
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## REINFORCING STEEL (Figure 25 & Figure 27)

Type A	12.7mm plain bars, grade 300, conforms to CSA G30.12.
Type B	10M (Deformed), grade 300, conforms to CSA G30.12.
Placement	Maintain a 75mm clearance from edges. <b>Elevate to mid depth of the concrete using steel/plastic chairs</b> sufficiently placed to ensure positioning is maintained during concrete placement.

## RESIDENTIAL APPROACH REINFORCING STEEL (SD-237 & Figure 25)

Alternative 1	Place in a grid to form a mat. Spaced not greater than 470mm O.C. in both directions, and welded or securely fastened at intersections. <b>(Figure 27)</b>
Alternative 2	Cut and place to form a grid spaced not greater than 400mm O.C. in both directions and welded or securely fastened at intersections.

## COMMERCIAL APPROACH REINFORCING STEEL (SD-217 & SD-211A) (Figure 26 & Figure 27)

Bar Mats are to be used in accordance with SD-217 **(Figure 26 & Figure 27)** and ALTERNATIVE 1, SECTION A-A of SD-237 **(Figure 25)**

## PAVING STONES (CW 3330)

Type	Conforms with CAN3-A231.2 Pre-cast Concrete Pavers
Placement	Paving Stones shall be compacted into the bedding sand layer using approved vibratory compactors until they are at the proper grade, uniformly level and free of any movement. Filler sand shall be swept into the joints until full.

## ASPHALTIC CONCRETE (CW 3410)

See:

Combined Aggregate Gradation Limits **(pg.24)**  
Physical Requirements **(pg. 24)**

FOR RESIDENTIAL APPROACHES

Type IA, or Type I

Min. thickness 75mm

FOR COMMERCIAL APPROACHES

Type IA

Min. thickness 75mm

OVERLAY FOR CONCRETE

Type II

Min. thickness 20mm

## GRAVEL (CW 3150)

Base Coarse Material	See Base Coarse Material grading requirements Granular B or C <b>(pg. 20)</b>
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## MISCELLANEOUS

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### CONCRETE INCIDENTAL ITEMS(CW 3110)

Isolation Joint	Plastic expansion joint filler, fluted polypropylene type 6mm in thickness.
Expansion Joint <sup>10</sup> (For Sidewalk)	Sidewalk expansion joints shall be a closed-cell expansion joint filler.
Contraction Joint	Saw-cut 3mm wide x one-third (1/3) depth of pavement as per <b>Section 6.7.6. of CW3310</b> and located as shown on <b>Figure 25&amp; Figure 26, SD-211A &amp; SD-211B<sup>8</sup></b>
Tie Bars <sup>10</sup> (Grade 300)	(Approach to pavement) – 15M (Res.) / 20M (Com.) deformed epoxy coated bars, 600mm long, placed 600mm O.C., drilled into existing pavement 230mm and bonded as shown in <b>SD-213B<sup>8</sup></b> (Curb Ramps for sidewalk in Res. & Com. approaches) – 15M deformed epoxy-coated bars, 600mm long, placed 600mm O.C. as per <b>SD-229C, SD-229B<sup>8</sup> &amp; Figure 21, Figure 30</b>
Dowels <sup>10</sup> (Grade 300)	(Installed at contraction or transverse joints) 450mm long – 19.1mm, 450 O.C. (Res.) / 28.6, 300 O.C. (Com.), drilled into existing pavement 160mm and bonded as shown in <b>SD-213B</b> .
Dowel Adhesive <sup>10</sup>	Conforms to ASTM C881M, Type 1, Grade 3 epoxy shall be used for bonding tie bars and dowels into hardened concrete. <b>Installed as per Section 6.3.2.2.2 of CW3110.</b>
Curing Compound <sup>10</sup>	Conforms to ASTM C309, Type 2, Class B white-pigmented, and water based liquid membrane-forming curing compound.

### CAST IN PLACE CONCRETE CURBS FOR ASPHALT/PAVING STONE APPROACHES (CW 3310)

Size	100mm Wide X 200mm Deep
Hydraulic Cement Type (depends on Street Classification)	As specified under <i>section 2.3 of CW3310</i> . Type 1 or 2 (See <b>pages 22-23</b> )
Reinforcing Steel	Conforms to CSA G30-12 Billet Steel for reinforcement, 2-15M deformed bars spaced as shown on <b>SD-238A/B &amp; SD-237A/B<sup>8</sup></b> .

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<sup>10</sup> Refer to “Approved Products for Surface Works” in Standard Construction Specifications: [https://legacy.winnipeg.ca/finance/findata/matmgt/std\\_const\\_spec/current/Docs/Approved\\_Product\\_Suppliers.pdf](https://legacy.winnipeg.ca/finance/findata/matmgt/std_const_spec/current/Docs/Approved_Product_Suppliers.pdf)

## **PLASTIC PAVER EDGE SUPPORT FOR PAVING STONE APPROACHES (CW 3330)**

Plastic paver edge support shall be made of High Density Polyethylene (HDPE) material.

Plastic paver edge support may be installed as a paving stone edging for residential approaches. All installation shall be in accordance with the manufacturer's instructions.

For vehicular applications 10" or 12" x 3/8" diameter steel spikes shall be spaced every 12" (min. every 3<sup>rd</sup> hole) with the exception of radius applications, where the steel spikes should be spaced every 8" to 12".

An acceptable plastic edge support is "Snap Edge" as manufactured by Snapedge Canada Ltd. or Snap Edge Corporation.

[www.snapedge.ca](http://www.snapedge.ca)

## **CULVERTS FOR STREETS WITH DITCH TYPE DRAINAGE (CW 3610)**

<b>Diameter Size</b>	To be determined by the <b>City of Winnipeg, Water &amp; Waste Department, Engineering Division, Land Drainage and Flood Protection Technologist</b> at 204.986.3670. or email <a href="mailto:CNault@winnipeg.ca">CNault@winnipeg.ca</a>
<b>Length</b>	<b>Contractor</b> to calculate culvert length based on approved approach width, shoulder widths and a minimum 4:1 (rise over run) ditch slope.
<b>Type<sup>10</sup></b>	<b>Corrugated Steel Pipe</b> , conforms to CSA CAN/CSA-G401 <b>Pre-cast concrete pipe</b> , conforms to ASTM C-14, C-76, or C-655, <b>High Density Polyethylene (HDPE) Pipe</b> , conforms to CSA B182.8 and ASTM D2412.
<b>Culvert Elevations</b>	To be determined by the <b>City of Winnipeg, Public Works Department, Engineering Division, Approach Technologist</b> at <a href="mailto:pwdPA-DD@winnipeg.ca">pwdPA-DD@winnipeg.ca</a> (Residential Only)
<b>Culvert End<sup>10</sup> Markers</b>	Supply culvert end markers in accordance with the following: <ol style="list-style-type: none"><li>1.) Culvert end markers shall be 1500 ± 100mm in height.</li><li>2.) Culvert end markers shall be HDPE, SDR 9.3, 30mm (1¼") in diameter, bright orange in color with an adhesive backed reflective strip placed around the marker. The reflective strip shall be placed within 25mm of the top of the marker.</li></ol>

## **INSTALLATION OF CULVERTS (CW 3610)**

All construction methods under **section 3.1 of CW3610** for Excavation, Bedding and Backfill are to be followed and proper materials under **section 2 of CW3610** are to be used. Clay, Silt, or organic soil shall not be used as bedding or backfill material. The Standard Construction Specifications for the Installation of Culverts (CW 3610) can be found online. (**see 'LINKS', page 67**)

# TABLES

## Base Course and Sub-base Materials (CW 3110)

**Granular A** – open-graded virgin (not recycled) aggregates intended for use as free draining base and sub-base within the pavement structure. Granular A is intended for high traffic volume streets, including expressways, major arterials, minor arterials, industrial/commercial collectors, residential major collectors, residential minor collectors, industrial/commercial locals and associated approaches.

**Granular B** – well-graded virgin or recycled aggregates intended for use as base and sub-base within the pavement structure. Granular B is intended for low traffic volume streets including residential local, public lanes, asphalt pathways and associated approaches. Granular A can be used instead of Granular B.

**Granular C** – dense graded virgin or recycled aggregates intended for use as base and sub-base. Granular C is intended for rehabilitations and other applications. Granular A or B can be used instead of Granular C.

**Crushed Recycled Concrete** – aggregates obtained by recycling clean, hard, concrete waste with maximum lightweight material/asphalt content of 8%, maximum clay content of 3% and maximum other foreign or deleterious materials content of 3%. All types of contaminants, such as dirt, plaster, gypsum and other building waste, must be removed.

**Deleterious Material** – soft material that would decay or disintegrate from weathering, porcelain, vegetation, organic material, wood, glass, plastic, metal, reinforcing steel, building rubble, brick, shale, and friable particles.

**Oversize Material** – The percent fraction by weight of the aggregate retained on the 19.0 mm sieve.

Base Course and sub-base materials shall conform to the following requirements:

- a) Base course and sub-base materials will be of a type approved by the Contract Administrator.
- b) Base course and sub-base materials shall be sound, durable particles produced by crushing, screening, and grading of recovered materials.
- c) Base course and sub-base materials shall conform to the grading requirements in Table CW 3110.1 and the physical requirements in Table CW 3110.2

**Note: All aggregate material placed must be supplied by an Approved Aggregate Supplier.** Effective July 1st, 2020, the City of Winnipeg, Research and Standards Engineer will maintain a list of approved aggregate suppliers. A list of these suppliers is made available on the City of Winnipeg Website @ [www.winnipeg.ca/matmgt/Spec/Default.stm](http://www.winnipeg.ca/matmgt/Spec/Default.stm).

TABLE CW 3110.1 – Gradation Requirements

Canadian Metric Sieve Size	Percent of Total Dry Weight Passing Each Sieve											
	Granular A*			Granular B**			Granular C**					
	Base Course	50 mm	100 mm	Base Course	50 mm	100 mm	Base Course	50 mm	100 mm	Base Course	50 mm	100 mm
125 000			100%			100%						100%
100 000			85% - 100%			85% - 100%						90% - 100%
75 000		100%	70% - 92%		100%	--					100%	--
50 000		97% - 100%	50% - 78%		97% - 100%	50% - 80%					97% - 100%	--
37 500		75% - 95%	--		75% - 95%	--					--	--
28 000	100%	--	--	100%	--	--					--	--
25 000	97% - 100%	55% - 87%	25% - 58%	97% - 100%	55% - 87%	28% - 60%	100%				--	30% - 60%
20 000	85% - 95%	--	--	85% - 95%	--	--	97% - 100%				--	--
10 000	47% - 70%	25% - 60%	15% - 40%	45% - 75%	28% - 65%	18% - 45%	--				--	--
5 000	32% - 55%	16% - 48%	--	--	--	--	28% - 65%				20% - 60%	--
2 500	18% - 45%	--	--	20% - 48%	--	--	28% - 65%				--	--
1 250	11% - 35%	8% - 30%	5% - 20%	--	10% - 35%	5% - 25%	--				--	--
630	8% - 26%	--	--	8% - 28%	--	--	--				--	--
315	5% - 18%	4% - 18%	3% - 14%	5% - 20%	4% - 22%	4% - 15%	3% - 22%				--	--
80	2% - 8%	2% - 8%	2% - 8%	2% - 8%	2% - 8%	2% - 8%	2% - 10%				3% - 12%	0% - 8%

TABLE CW 3330-R3.1 – Bedding Sand Grading Requirements

<b>BEDDING SAND</b>	
<p>Bedding sand shall be fine aggregate as specified in Section 2.2.1, Table CW3310.2 of Specification CW 3310, that the sand shall conform to the following grading requirements:</p>	
CDN. METRIC <u>SIEVE SIZE</u>	PERCENT OF TOTAL DRY WEIGHT <u>PASSING EACH SIEVE</u>
10 000	100%
5 000	95% - 100%
2 500	80% - 100%
1 250	50% - 85%
630	25% - 60%
315	10% - 35%
160	5% - 15%
80	0% - 10%

# PORTLAND CEMENT CONCRETE (CW 3310)

## Concrete Types

**Type 1** Concrete shall be used for expressways, major arterials, minor arterials, industrial/commercial collectors, residential major collectors, residential minor collectors, and industrial/commercial local pavements, commercial approaches. Curbs shall match the concrete type based on the street classification<sup>11</sup>.

**Type 2** Concrete shall be used for residential streets and alleys, residential approaches, miscellaneous concrete slab and splash strips. Type 1 Concrete can be used instead of Type 2 Concrete. Curbs shall match the concrete type based on the street classification<sup>11</sup>.

**Type 3** is early opening concrete and shall be used for 24 hours early opening after placement.

**Type 4** is early opening concrete and shall be used for 72 hours early opening after placement.

**Type 5** Concrete shall be used for Sidewalks. Type 1 or Type 2 Concrete can be used instead of Type 5 Concrete.

**Type 6** is concrete for restoration of utility pavement cuts.

**Type 7** is concrete for temporary restoration.

**Cold Weather Concrete** is concrete for Cold Weather and shall replace all other concrete types for all applications when Cold Weather exists, except Type 7.

Cold Weather is defined as a period when the nearest official meteorological office predicts the ambient air temperature will be below 5 °C within 24 hours of placing concrete.

**\*Note** – Type 6 and 7 is not applicable to approaches.

**Note: All concrete placed must be supplied by an Approved Concrete Supplier.** A list of these suppliers is made available on the City of Winnipeg Website @ [Approved concrete suppliers.pdf \(winnipeg.ca\)](#)

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<sup>11</sup> Street classification can be found at the following link:  
<https://legacy.winnipeg.ca/publicworks/snow/street-priority.stm>

**P1** – expressways, major arterials, minor arterials (Type 1)

**P2** – industrial/commercial collectors, residential major collectors, residential minor collectors, and industrial/commercial local pavements (Type 1)

**P3** – residential streets and alleys (Type 1 or 2)

TABLE CW 3310.5 – Concrete Properties

	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	Type 7	Cold Weather Concrete
Maximum Cementitious Content (kg/m <sup>3</sup> )	360	340	360	360	320	340	300	400
Maximum Supplementary Cementing Materials – Fly Ash **	20%	20%	20%	20%	20%	20%	20%	10%
Maximum Water/Cementitious Ratio	0.4	0.4	0.4	0.4	-	-	-	0.35
Slip form paving	0.42	0.42	0.42	0.42	0.42	0.42	0.45	0.36
Hand placement								
Slump (mm)	50 ± 20 70 ± 20	- 80 ± 20	- 100 ± 20	- 100 ± 20	50 ± 20 70 ± 20			
Nominal Maximum Aggregate Size (mm)	20	20	20	20	20	20	20	20
Air Content (%)	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8
Minimum Compressive Strength (MPa)	- 15 35	- 15 35	20 - Note*	- 20 Note*	- - 30	Note*	- - 30	20 24 35
Maximum Rapid Chloride Penetrability Test*** (coulombs) @ 91 days.	1500	1750	Note*	Note*	-	-	-	1500

\*The concrete shall meet Type 1 or Type 2 based on the application.

\*\*The use of fly ash in concrete mix will be permitted as a partial replacement of cement for Period I and will be permitted as additional to the cement for Period II unless authorized in writing by the City of Winnipeg, Research and Standards Engineer. For Cold Weather Concrete, the use of fly ash will be permitted as additional to the cement unless authorized in writing by the City of Winnipeg, Research and Standards Engineer. The Contractor will have the option to replace cement up to but not exceeding the above limits, by weight of total cementitious materials, depending on the concrete type.

\*\*\*Rapid chloride penetrability test will be required where there is evidence of concrete damage as a result of inadequate curing and adverse weather conditions, including hot weather, wind, rain, sleet, snow and cold weather. The Contract Administrator shall be allowed access to all sampling locations and reserves the right to take samples for testing at any time.

# ASPHALTIC CONCRETE

## Combined Aggregate Gradation Limits (Ref. TABLE 1 CW3410-R5.1)

### Physical Requirements (Ref. TABLE 2 CW3410-R5.2)

COMBINED AGGREGATE GRADATION LIMITS				
Percent of Total Dry Weight Passing Each Sieve				
Canadian Metric Sieve Size	Type 1A (Surface Course) %	Type I (Surface Course) %	Type II (Surface Course) %	Type III (Base Course) %
40 000				100%
25 000	99% to 100%	100%		90% to 100%
16 000	--	--		60% to 90%
12 500	70% to 88%	70% to 85%	100%	56% to 80%
10 000	55% to 70%	45% to 70%	90% to 95%	--
5 000	40% to 60%	25% to 55%	74% to 80%	29% to 59%
2 500	25% to 50%	20% to 40%	55% to 64%	20% to 50%
1 250	15% to 40%	15% to 30%	35% to 46%	--
630	5% to 28%	5% to 20%	22% to 30%	15% to 30%
315	4% to 11%	--	--	5% to 17%
160	3% to 7%	3% to 6%	8% to 11%	--
80				1% to 7%
Crush Count: (Clause 5.4.1 (b) (iii))	60% min. (2 fractured faces)	50% min. (1 fractured face)	--	60% min. (2 fractured faces)

PHYSICAL REQUIREMENTS			
	Type 1A (Surface Course) %	Type I (Surface Course) %	Type II (Surface Course) %
Asphalt Cement, % total sample	5.0% to 6.0%	5.0% to 6.0%	5.0% to 7.0%
Voids in Mineral Aggregate, VMA	14.0% min.	14.5% min.	16.0% min.
Air Voids	3.0% to 5.0%	2.5% to 5.0%	2.5% to 5.0%
Marshall Stability, kN at 60°C	7 min.	5 min.	4 min.
Flow Index, units of 250 µm	6.0 to 16.0	6.0 to 16.0	6.0 to 16.0
			4.0% to 5.5%
			12.0% min.
			2.5% to 5.0%
			5 min.
			6.0 to 16.0

## Standard Proctor Densities

Standard Proctor Densities are a measure of soils density obtained using industry standard tests. The Standard Proctor Density for a soil is unique to that soil type. A sandy soil compacted to 100% Standard Proctor Density would not be as dense as a soil with a greater clay content compacted to the same 100% Standard Proctor Density.

Engineering consultants can determine soil densities and compaction (percent of Standard Proctor Density) at a cost.

A general rule of thumb can be applied to most soils to determine the approximate degree of compaction. A simple procedure is to try to penetrate the compacted soil with a common screwdriver. The screwdriver blade should be placed in contact with the soil and then hand force applied to the screwdriver to penetrate the soil. For Suitable Site sub-grade materials compacted to 95% Standard Proctor Density it should take considerable force to make the screwdriver penetrate the soil 50-75mm. For a base course material compacted to 100% Standard Proctor Density the screwdriver should only penetrate the soil approximately 25mm.

## Boulevard and Approach Settlement

Water, sewer and other utility trenches exist in most boulevards in the City of Winnipeg. Long term settlement of the trench backfill material can occur even though steps have been taken during the utility installation to ensure that compaction of the backfill material was in accordance with Standard Construction Specifications.

Over time boulevard and approach settlement can occur that might adversely affect a private approach. It is therefore recommended that the sub-grade material in the boulevard and under the approach be examined and preventative measures such as sub-grade compaction by jetting and flooding or proper mechanical means and methods be performed prior to constructing a private approach.

Special attention should be given to sewer manholes and catch basins that will lie within the limits of an approach. Backfill around manholes may be more susceptible to settlement. **Where a manhole or catch basin exists, manhole and catch basin isolations must be included in the construction of the approach.** A manhole or catch basin which is not isolated will act as a pile under the approach which can lead to serious undermining followed by high severity cracking of the approach when settlement ultimately does occur.

**Property owners/licensed contractors should also consider design alternatives above the minimum standards to minimize the effect of long-term trench and approach settlement.**

# APPROACH DETAILS & SURFACE MATERIAL RESTRICTIONS

## (Schedule “C” of the Private Access By-Law)

TO USE THE DETAIL CHARTS (**PAGES 28 & 29**) TO DETERMINE WHICH APPROACH DETAIL IS APPLICABLE. FOLLOW THESE STEPS:

- STEP 1** Determine your land usage:
- for Residential property use Chart I.
  - for Commercial, Industrial, Agriculture or any other property use Chart II.

- STEP 2** Verify:
- a) The type of pavement of the Street to which the approach will access:
    - Concrete or Asphalt over Concrete,
    - Asphalt, or
    - Gravel / Chip seal
  - b) The type of curb if any:
    - Barrier (rectangular with a vertical face)
    - Lip (rolled with a diagonal face)
  - c) The shoulder type if applicable:
    - Asphalt, or
    - Gravel / Chip seal

Use the information from a, b & c, starting from the left to select the proper row.

- STEP 3** Determine whether the Street to which the approach will access is considered Regional or Non-Regional. (see ‘DEFINITIONS’ for Regional Streets (**page 2**))

Use this information to select the appropriate side of the table.

- STEP 4** In the row you selected in step 2, on the side you select in step 3, locate the cell containing the surface material type you intend to use.

Note: The listed types are the option available to conform to the Private Access By-law.

The figure number in this cell will reference the applicable detail.

# Chart I – Residential

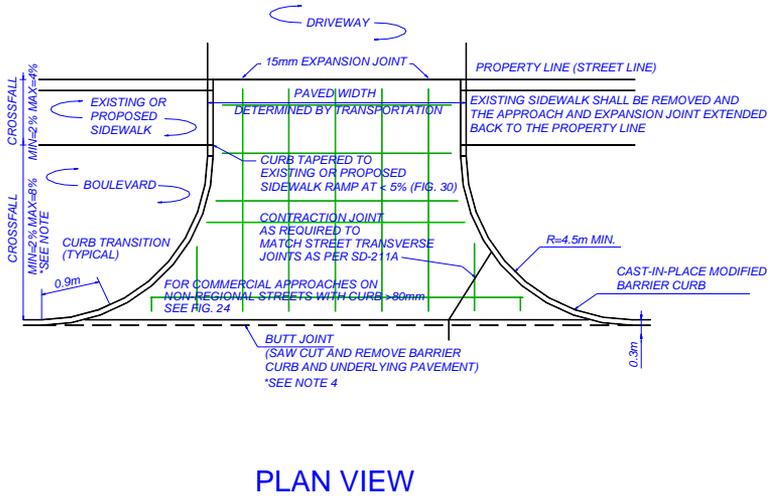
		LAND USE										
		RESIDENTIAL										
		REGIONAL STREETS					NON-REGIONAL STREETS					
PAVEMENT TYPE	CURB TYPE	SHOULDER TYPE	REGIONAL STREETS		NON-REGIONAL STREETS		REGIONAL STREETS		NON-REGIONAL STREETS		NON-REGIONAL STREETS	
CONCRETE OR ASPHALT OVER CONCRETE	BARRIER CURB	NONE	CONCRETE FIG. 1	PAVING STONES FIG. 2	CONCRETE FIG. 11	PAVING STONES FIG. 12	CONCRETE FIG. 14	CONCRETE FIG. 17	CONCRETE FIG. 19	CONCRETE FIG. 20	CONCRETE FIG. 17	PAVING STONES FIG. 18
	LIP CURB	NONE	CONCRETE FIG. 4	PAVING STONES FIG. 5	CONCRETE FIG. 14	PAVING STONES FIG. 15	CONCRETE FIG. 17	CONCRETE FIG. 19	CONCRETE FIG. 20	CONCRETE FIG. 17	CONCRETE FIG. 19	PAVING STONES FIG. 18
	NONE	ASPHALT	CONCRETE FIG. 7	PAVING STONES FIG. 8	CONCRETE FIG. 17	PAVING STONES FIG. 18	CONCRETE FIG. 17	CONCRETE FIG. 19	CONCRETE FIG. 20	CONCRETE FIG. 17	CONCRETE FIG. 19	PAVING STONES FIG. 18
	NONE	GRAVEL	GRAVEL FIG. 10	CONCRETE FIG. 7	GRAVEL FIG. 20	PAVING STONES FIG. 8	CONCRETE FIG. 17	CONCRETE FIG. 19	CONCRETE FIG. 20	CONCRETE FIG. 17	CONCRETE FIG. 19	PAVING STONES FIG. 18
ASPHALT	BARRIER CURB	NONE	ASPHALT FIG. 3	PAVING STONES FIG. 2	ASPHALT FIG. 13	PAVING STONES FIG. 12	ASPHALT FIG. 16	ASPHALT FIG. 19	ASPHALT FIG. 19	ASPHALT FIG. 20	ASPHALT FIG. 17	PAVING STONES FIG. 18
	LIP CURB	NONE	ASPHALT FIG. 6	PAVING STONES FIG. 5	ASPHALT FIG. 16	PAVING STONES FIG. 15	ASPHALT FIG. 19	ASPHALT FIG. 19	ASPHALT FIG. 20	ASPHALT FIG. 17	ASPHALT FIG. 19	PAVING STONES FIG. 18
	NONE	ASPHALT	ASPHALT FIG. 9	PAVING STONES FIG. 8	ASPHALT FIG. 19	PAVING STONES FIG. 18	ASPHALT FIG. 19	ASPHALT FIG. 19	ASPHALT FIG. 20	ASPHALT FIG. 17	ASPHALT FIG. 19	PAVING STONES FIG. 18
	NONE	GRAVEL	GRAVEL FIG. 10	CONCRETE FIG. 7	GRAVEL FIG. 20	PAVING STONES FIG. 8	CONCRETE FIG. 17	CONCRETE FIG. 19	CONCRETE FIG. 20	CONCRETE FIG. 17	CONCRETE FIG. 19	PAVING STONES FIG. 18
GRAVEL OR CHIP SEAL	NONE	GRAVEL OR CHIP SEAL / NONE	GRAVEL FIG. 10	GRAVEL FIG. 10	GRAVEL FIG. 20	GRAVEL FIG. 20	GRAVEL FIG. 20	GRAVEL FIG. 19	GRAVEL FIG. 20	GRAVEL FIG. 17	GRAVEL FIG. 18	

## Chart II – Commercial / Industrial / Agriculture

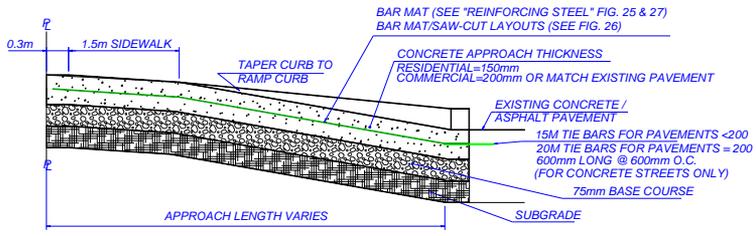
		LAND USE						
		COMMERCIAL / INDUSTRIAL / AGRICULTURE			NON-REGIONAL STREETS			
PAVEMENT TYPE	CURB TYPE	SHOULDER TYPE	REGIONAL STREETS			NON-REGIONAL STREETS		
			CONCRETE OR ASPHALT OVER CONCRETE	BARRIER CURB	NONE	CONCRETE FIG. 1	PAVING STONES FIG. 2	CONCRETE FIG. 1
LIP CURB	NONE	CONCRETE FIG. 4		PAVING STONES FIG. 5	CONCRETE FIG. 4	PAVING STONES FIG. 5	CONCRETE FIG. 4	PAVING STONES FIG. 5
NONE	ASPHALT	CONCRETE FIG. 7		PAVING STONES FIG. 8	CONCRETE FIG. 7	PAVING STONES FIG. 8	CONCRETE FIG. 7	PAVING STONES FIG. 8
NONE	GRAVEL	CONCRETE FIG. 7		PAVING STONES FIG. 8	CONCRETE FIG. 7	PAVING STONES FIG. 8	CONCRETE FIG. 7	PAVING STONES FIG. 8
ASPHALT	BARRIER CURB	NONE	ASPHALT FIG. 3	PAVING STONES FIG. 2	ASPHALT FIG. 3	PAVING STONES FIG. 2	CONCRETE FIG. 1	PAVING STONES FIG. 2
	LIP CURB	NONE	ASPHALT FIG. 6	PAVING STONES FIG. 5	ASPHALT FIG. 6	PAVING STONES FIG. 5	CONCRETE FIG. 4	PAVING STONES FIG. 5
	NONE	ASPHALT	ASPHALT FIG. 9	PAVING STONES FIG. 8	ASPHALT FIG. 9	PAVING STONES FIG. 8	CONCRETE FIG. 7	PAVING STONES FIG. 8
	NONE	GRAVEL	ASPHALT FIG. 9	PAVING STONES FIG. 8	ASPHALT FIG. 9	PAVING STONES FIG. 8	CONCRETE FIG. 7	PAVING STONES FIG. 8
GRAVEL OR CHIP SEAL	NONE	GRAVEL OR CHIP SEAL / NONE	GRAVEL FIG. 10	GRAVEL FIG. 10	GRAVEL FIG. 10	GRAVEL FIG. 10	GRAVEL FIG. 10	

## Figure 1: Regional Streets with Barrier Curb

### 1.) Commercial & Residential (on Regional Streets) Concrete Approach



### PLAN VIEW



### LONGITUDINAL SECTION

#### NOTE

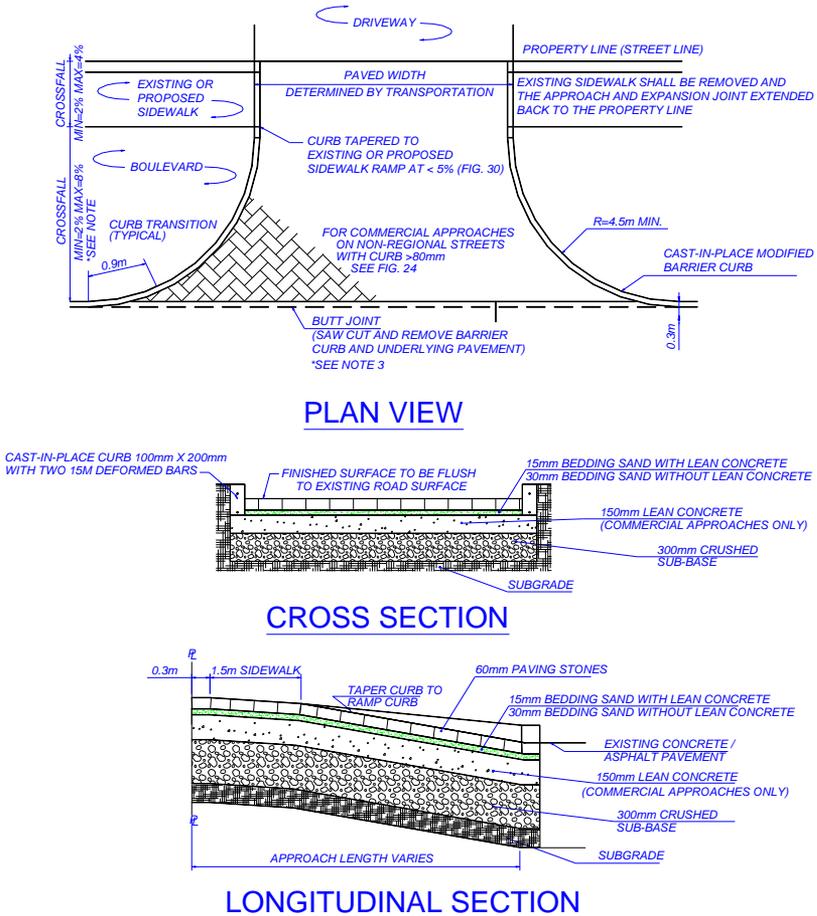
- 1) SEE FIG. 22 & 23 FOR MANHOLE/CURB INLET ISOLATION DETAIL IF REQUIRED.
- 2) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS. EXTRA PANELS MAY NEED TO BE REMOVED.
- 3) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 4) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

Reference Spec No. CW 3230, CW 3310
N.T.S.

\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

**Figure 2: Regional Streets with Barrier Curb**

2.) Commercial & Residential (on Regional Streets) Paving Stone Approach



**NOTE**

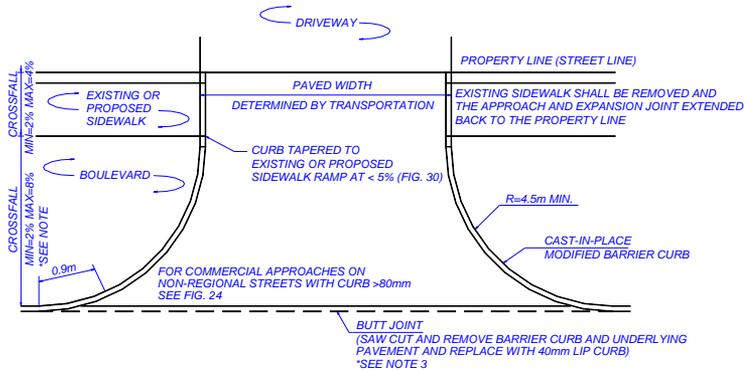
- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 2) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 3) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

Reference Spec No. CW 3240, CW 3110, CW 3335, CW 3330
N.T.S.

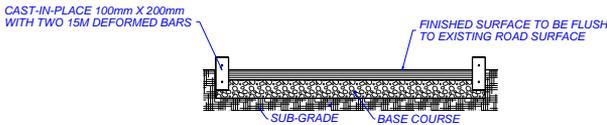
\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

## Figure 3: Regional Streets with Barrier Curb

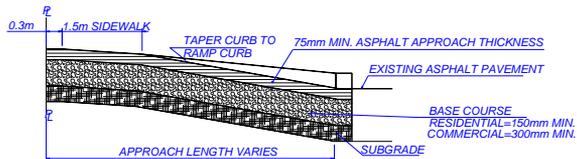
### 3.) Commercial & Residential (on Regional Streets) Asphalt Approach



### PLAN VIEW



### CROSS SECTION



### NOTE

- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 2) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 3) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

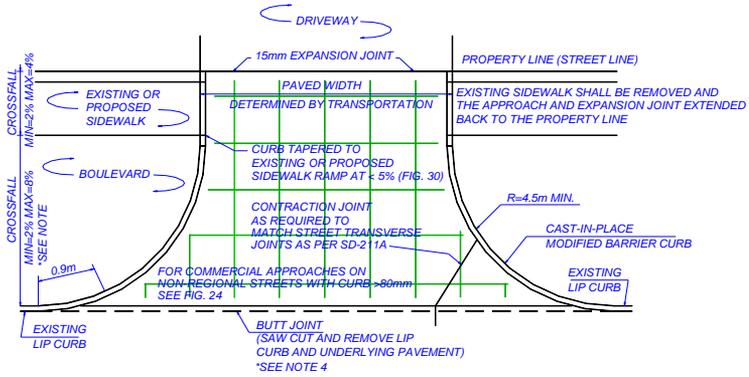
Reference Spec No.  
CW 3240, CW 3310,  
CW 3110, CW 3410

**N.T.S.**

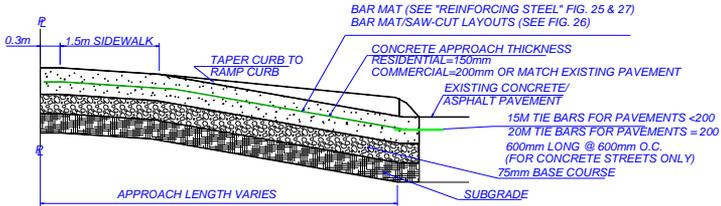
\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

## Figure 4: Regional Streets with Lip Curb

### 1.) Commercial & Residential (on Regional Streets) Concrete Approach



### PLAN VIEW



### LONGITUDINAL SECTION

#### NOTE

- 1) SEE FIG. 22 & 23 FOR MANHOLE/CURB INLET ISOLATION DETAIL IF REQUIRED.
- 2) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED).
- 3) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 4) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

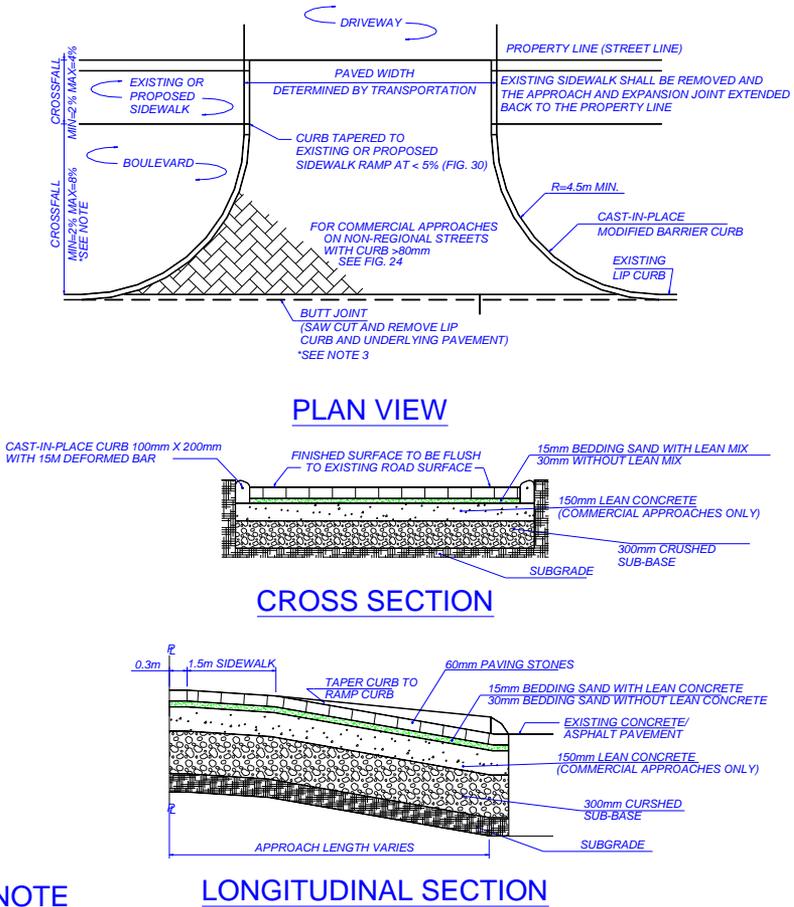
Reference Spec No.  
CW 3230, CW 3310

**N.T.S.**

\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

## Figure 5: Regional Streets with Lip Curb

### 2.) Commercial & Residential (on Regional Streets) Paving Stone Approach



### NOTE

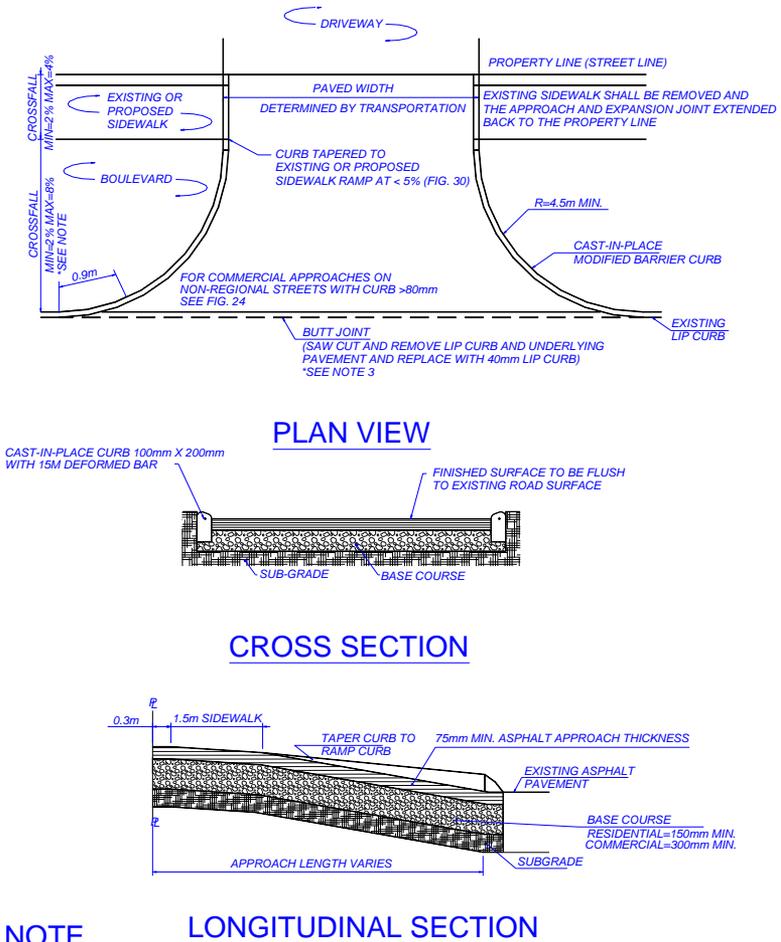
- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 2) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 3) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

Reference Spec No. CW 3230, CW 3110, CW 3335, CW 3330
<b>N.T.S.</b>

\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

## Figure 6: Regional Streets with Lip Curb

### 3.) Commercial & Residential (on Regional Streets) Asphalt Approach



#### NOTE

- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 2) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 3) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

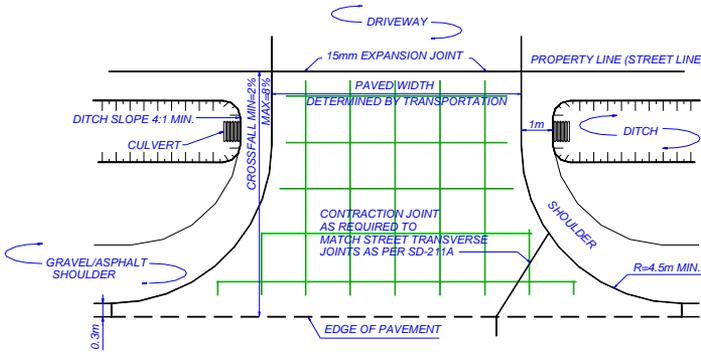
Reference Spec No.  
CW 3240, CW 3310,  
CW 3110, CW 3410

**N.T.S.**

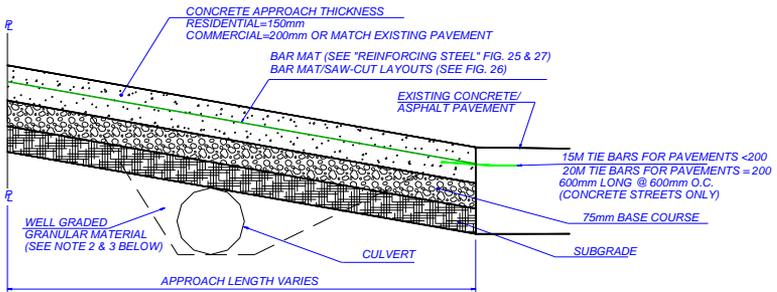
\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type. this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

## Figure 7: Regional Streets with Shoulders

### 1.) Commercial & Residential (on Regional Streets) Concrete Approach



### PLAN VIEW



### LONGITUDINAL SECTION

#### NOTE

- 1) SEE FIG. 22 & 23 FOR MANHOLE/CURB INLET ISOLATION DETAIL IF REQUIRED.
- 2) CAP SIDE SLOPES AROUND THE CULVERT ENDS WITH IMPERVIOUS CLAY.
- 3) CULVERT END MARKERS ARE TO BE INSTALLED ON THE ENDS OF THE CULVERT AS PER CW3610.

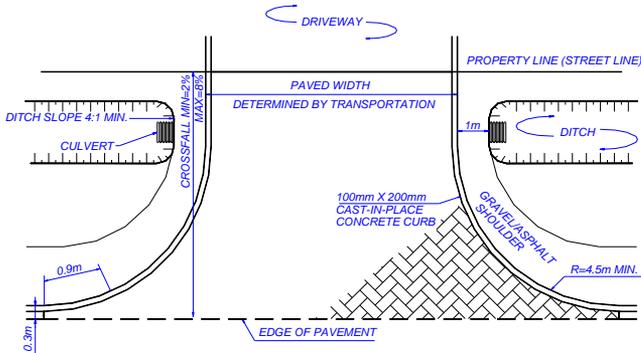
Reference Spec No.  
CW 3230, CW 3310,  
CW 3610

**N.T.S.**

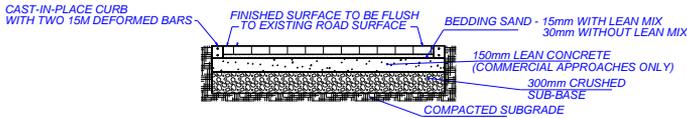
\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

## Figure 8: Regional Streets with Shoulders

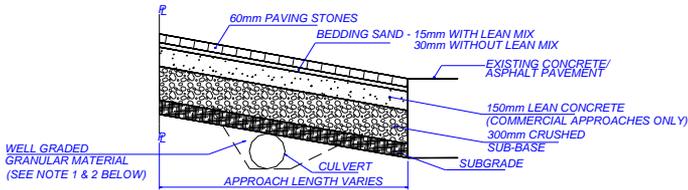
### 2.) Commercial & Residential (on Regional Streets) Paving Stone Approach



### PLAN VIEW



### CROSS SECTION



### NOTE

- 1) CAP SIDE SLOPES AROUND THE CULVERT ENDS WITH IMPERVIOUS CLAY.
- 2) CULVERT END MARKERS ARE TO BE INSTALLED ON THE ENDS OF THE CULVERT AS PER CW3610.

### LONGITUDINAL SECTION

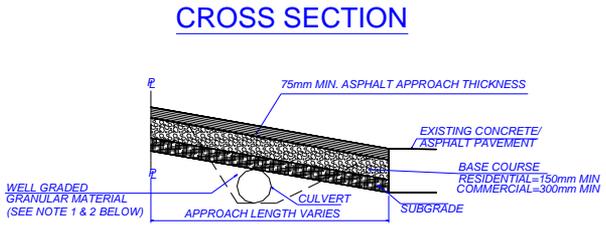
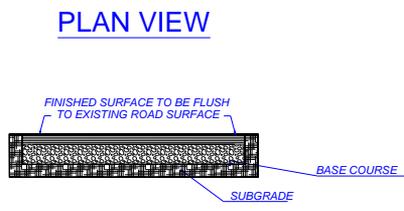
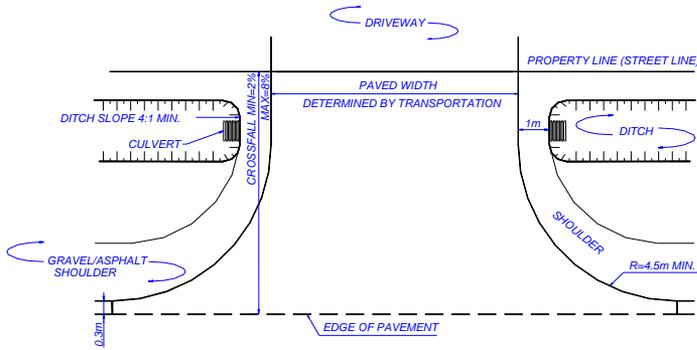
Reference Spec No.  
CW 3330, CW 3110,  
CW 3335, CW 3610

**N.T.S.**

\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

## Figure 9: Regional Streets with Shoulders

### 3.) Commercial & Residential (on Regional Streets) Asphalt Approach



#### NOTE

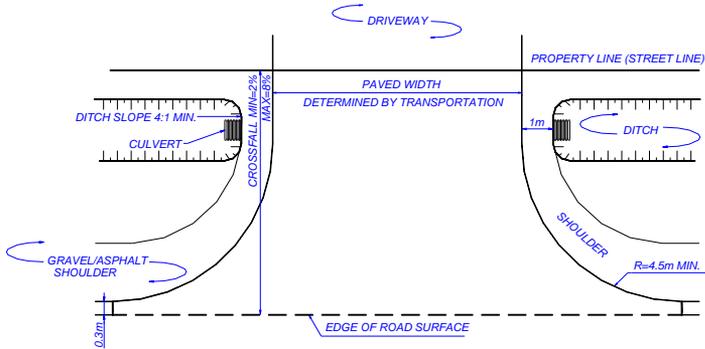
- 1) CAP SIDE SLOPES AROUND THE CULVERT ENDS WITH IMPERVIOUS CLAY.
- 2) CULVERT END MARKERS ARE TO BE INSTALLED ON THE ENDS OF THE CULVERT AS PER CW3610.

Reference Spec No. CW 3240, CW 3610, CW 3110, CW 3410
N.T.S.

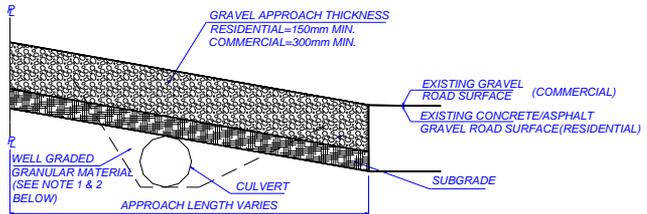
\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

## Figure 10: Regional Streets with Shoulders

### 4.) Commercial & Residential (on Regional Streets) Gravel Approach



PLAN VIEW



LONGITUDINAL SECTION

### NOTE

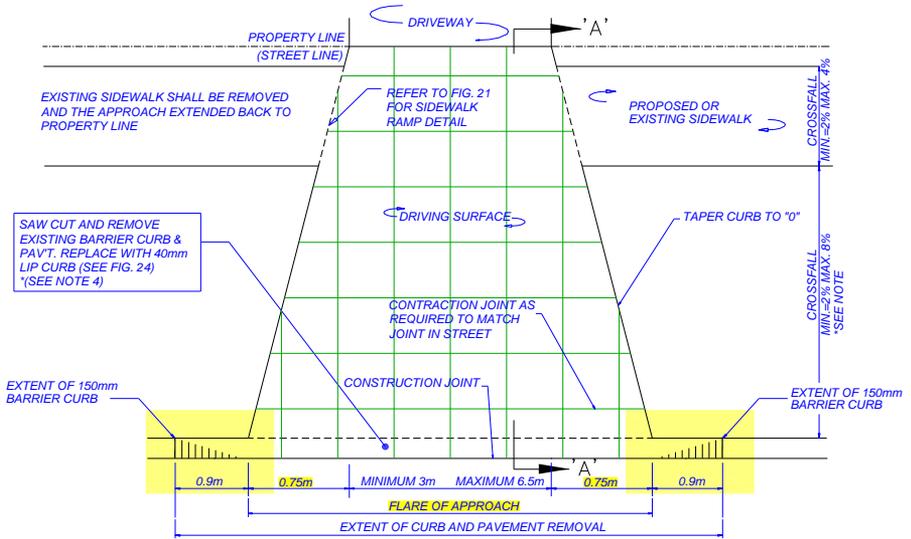
- 1) CAP SIDE SLOPES AROUND THE CULVERT ENDS WITH IMPERVIOUS CLAY.
- 2) CULVERT END MARKERS ARE TO BE INSTALLED ON THE ENDS OF THE CULVERT AS PER CW3610.

Reference Spec No. CW 3240, CW 3610, CW 3110, CW 3410
N.T.S.

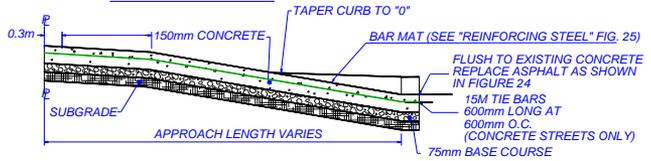
\*NOTE: A Commercial approach can also be located on a *Non-Regional* street since it could be based on property type, this detail is still to be followed for these situations unless the approved drawing from Transportation shows otherwise.

# Figure 11: Non-Regional Streets with Barrier Curb

## 1.) Residential Concrete Approach

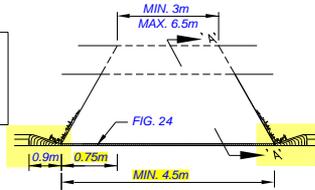


### PLAN VIEW



### CROSS SECTION 'A' - 'A'

NOTE:  
FLARES MAY VARY ON SITE BASED ON CERTAIN CONDITIONS AND TO CONFORM WITH THE PRIVATE ACCESS BY-LAW



## FRONTAL PERSPECTIVE OF FINISHED PRIVATE APPROACH

### NOTE

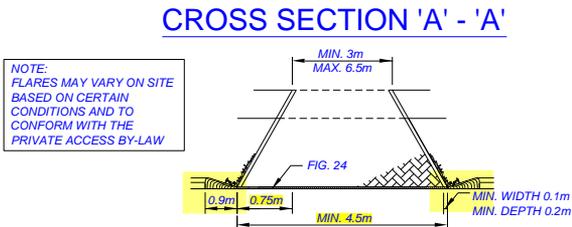
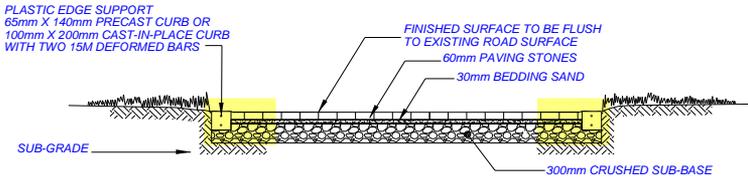
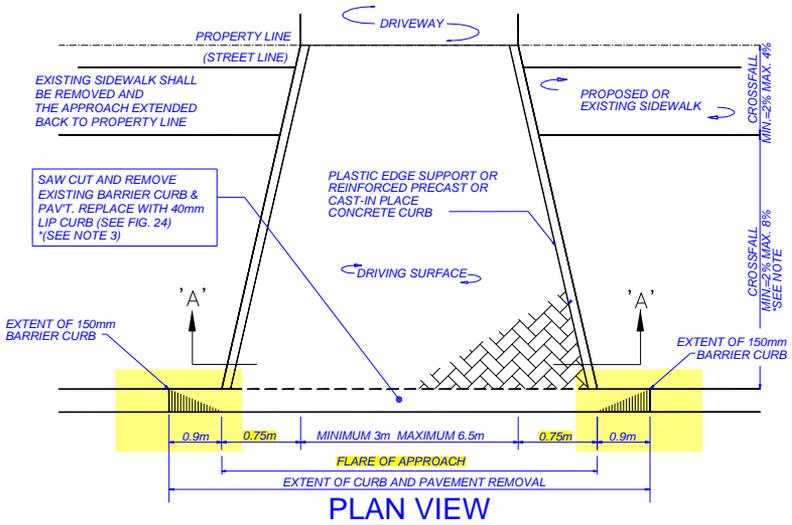
- 1) SEE FIG. 22 & 23 FOR MANHOLE/CURB INLET ISOLATION DETAIL IF REQUIRED.
- 2) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED).
- 3) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 4) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

Reference Spec No.  
CW 3230, CW 3310,  
CW 3240

**N.T.S.**

## Figure 12: Non-Regional Streets with Barrier Curb

### 2.) Residential Paving Stone Approach



#### NOTE

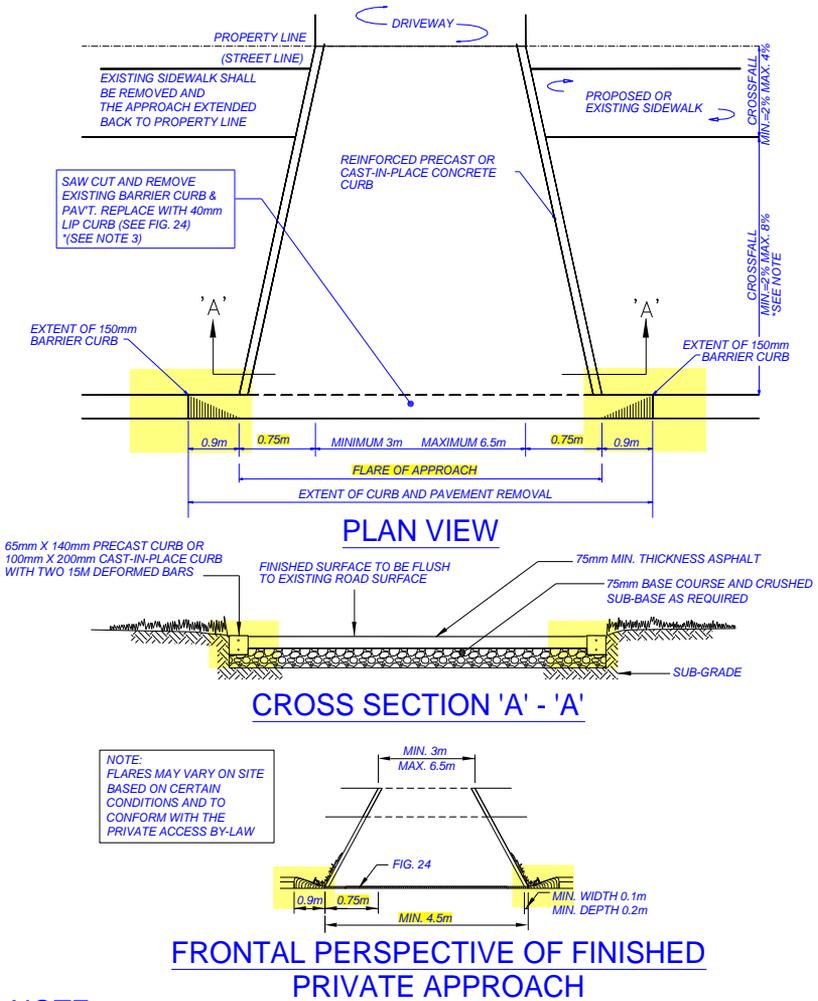
- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 2) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 3) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

Reference Spec No.  
CW 3240, CW 3110,  
CW 3335, CW 3330

**N.T.S.**

## Figure 13: Non-Regional Streets with Barrier Curb

### 3.) Residential Asphalt Approach



#### NOTE

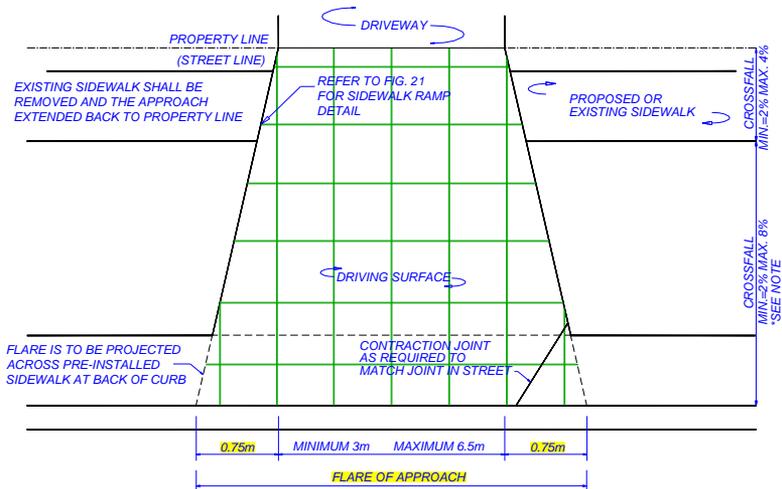
- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 2) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.
- 3) IF EXISTING STREET HAS CURB AND GUTTER, THE ENTIRE CURB AND GUTTER WILL NEED TO BE REMOVED AND REPLACED AS PER SD-200.

Reference Spec No.  
CW 3240, CW 3610,  
CW 3110, CW 3410

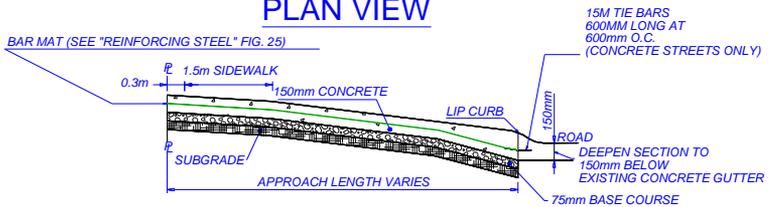
**N.T.S.**

## Figure 14: Non-Regional Streets with Lip Curb

### 1.) Residential Concrete Approach

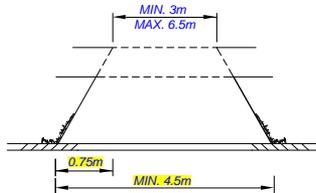


### PLAN VIEW



### CROSS SECTION

NOTE:  
FLARES MAY VARY ON SITE  
BASED ON CERTAIN  
CONDITIONS AND TO  
CONFORM WITH THE  
PRIVATE ACCESS BY-LAW



### FRONTAL PERSPECTIVE OF FINISHED PRIVATE APPROACH

#### NOTE

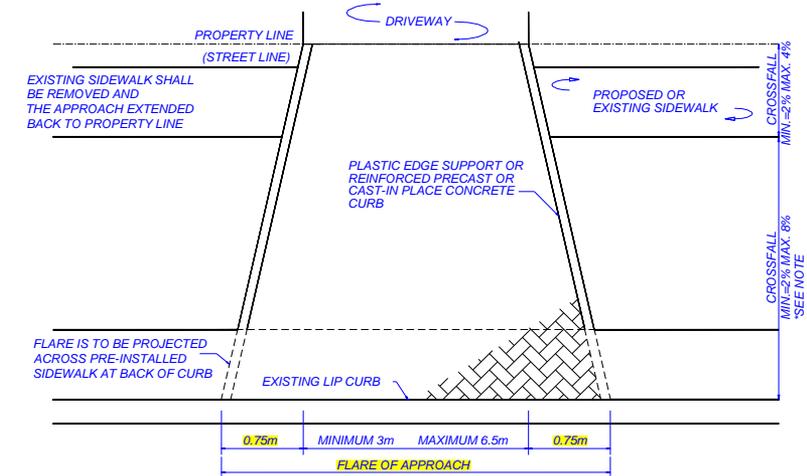
- 1) SEE FIG. 22 & 23 FOR MANHOLE/CURB INLET ISOLATION DETAIL IF REQUIRED.
- 2) IF CURB HEIGHT >80mm REFER TO FIG. 24.
- 3) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED).
- 4) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.

Reference Spec No.  
CW 3230, CW 3310,  
CW 3240

N.T.S.

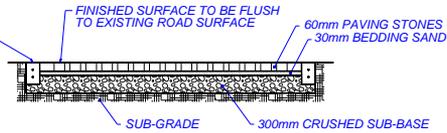
## Figure 15: Non-Regional Streets with Lip Curb

### 2.) Residential Paving Stone Approach



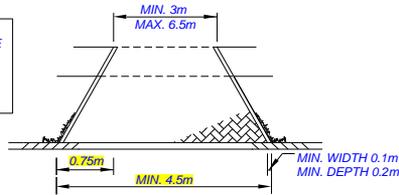
### PLAN VIEW

PLASTIC EDGE SUPPORT OR 65mm X 140mm PRECAST CURB OR 100mm X 200mm CAST-IN-PLACE CURB WITH TWO 15M DEFORMED BARS



### CROSS SECTION

NOTE:  
FLARES MAY VARY ON SITE BASED ON CERTAIN CONDITIONS AND TO CONFORM WITH THE PRIVATE ACCESS BY-LAW



### FRONTAL PERSPECTIVE OF FINISHED PRIVATE APPROACH

### NOTE

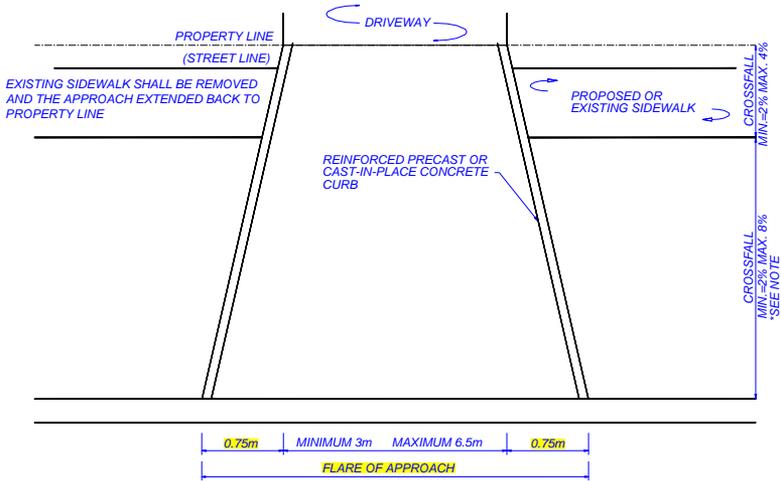
- 1) IF CURB HEIGHT >80mm REFER TO FIG. 24
- 2) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 3) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.

Reference Spec No.  
CW 3240, CW 3110,  
CW 3335, CW 3330

N.T.S.

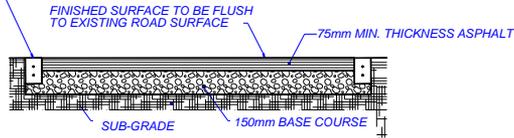
**Figure 16: Non-Regional Streets with Lip Curb**

3.) Residential Asphalt Approach



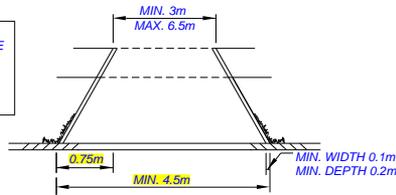
**PLAN VIEW**

65mm X 140mm PRECAST CURB OR 100mm X 200mm CAST-IN-PLACE CURB WITH TWO 15M DEFORMED BARS



**CROSS SECTION**

**NOTE:**  
FLARES MAY VARY ON SITE BASED ON CERTAIN CONDITIONS AND TO CONFORM WITH THE PRIVATE ACCESS BY-LAW



**FRONTAL PERSPECTIVE OF FINISHED PRIVATE APPROACH**

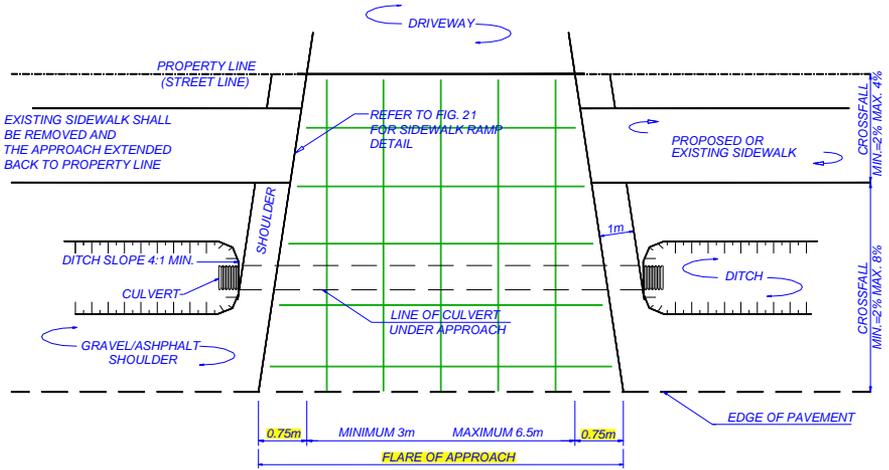
**NOTE**

- 1) IF CURB HEIGHT >80mm REFER TO FIG. 24
- 2) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 3) A CROSSFALL OF 2-4% WILL BE REQUIRED THROUGHOUT THE ENTIRE APPROACH WHERE PROPOSED SIDEWALKS WILL BE CONSTRUCTED AT THE PROPERTY LINE. THIS APPLIES TO NEWLY INSTALLED OR PROPOSED SIDEWALKS IN NEW DEVELOPMENTS.

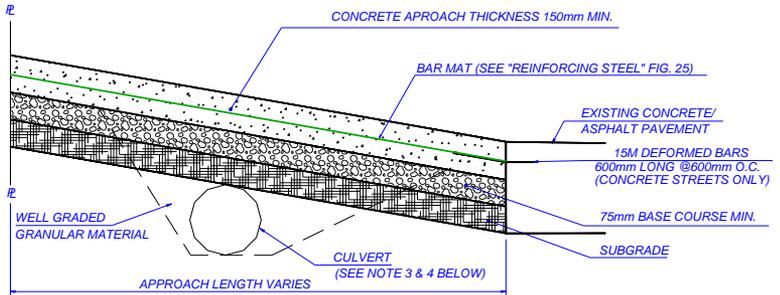
Reference Spec No. CW 3240, CW 3610, CW 3110, CW 3410
N.T.S.

## Figure 17: Non-Regional Streets with Shoulders

### 1.) Residential Concrete Approach



### PLAN VIEW



### LONGITUDINAL SECTION

### NOTE

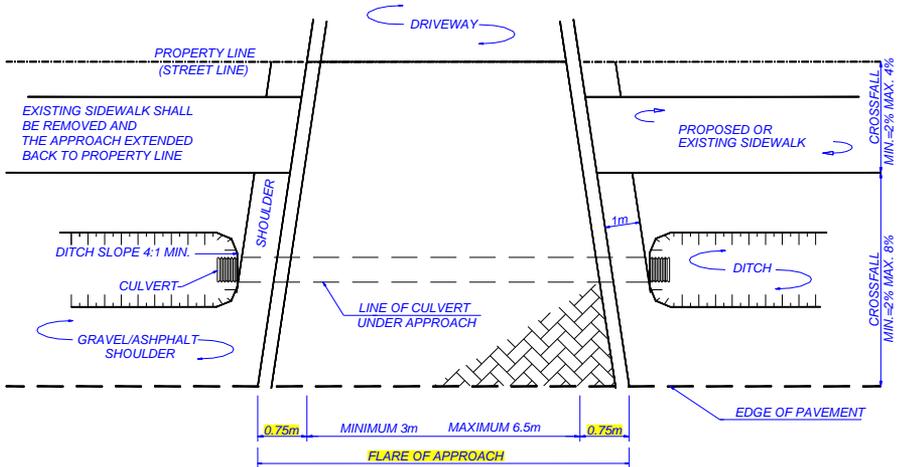
- 1) SEE FIG. 22 & 23 FOR MANHOLE/CURB INLET ISOLATION DETAIL IF REQUIRED.
- 2) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 3) CAP SIDE SLOPES AROUND THE CULVERT ENDS WITH IMPERVIOUS CLAY
- 4) CULVERT END MARKERS ARE TO BE INSTALLED ON THE ENDS OF THE CULVERT AS PER CW3610.

Reference Spec No.  
CW 3230, CW 3310,  
CW 3610

**N.T.S.**

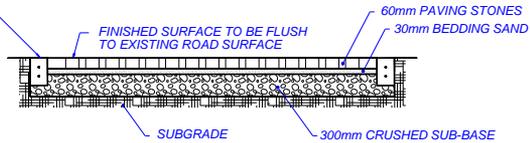
## Figure 18: Non-Regional Streets with Shoulders

### 2.) Residential Paving Stone Approach

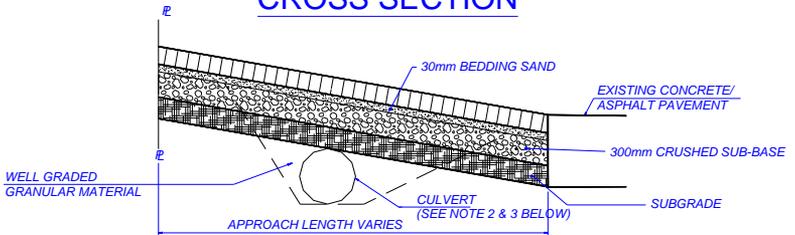


### PLAN VIEW

PLASTIC EDGE SUPPORT OR  
100mm X 200mm CAST-IN-PLACE CURB  
100mm X 200mm CAST-IN-PLACE CURB  
WITH TWO 15M DEFORMED BARS



### CROSS SECTION



### LONGITUDINAL SECTION

#### NOTE

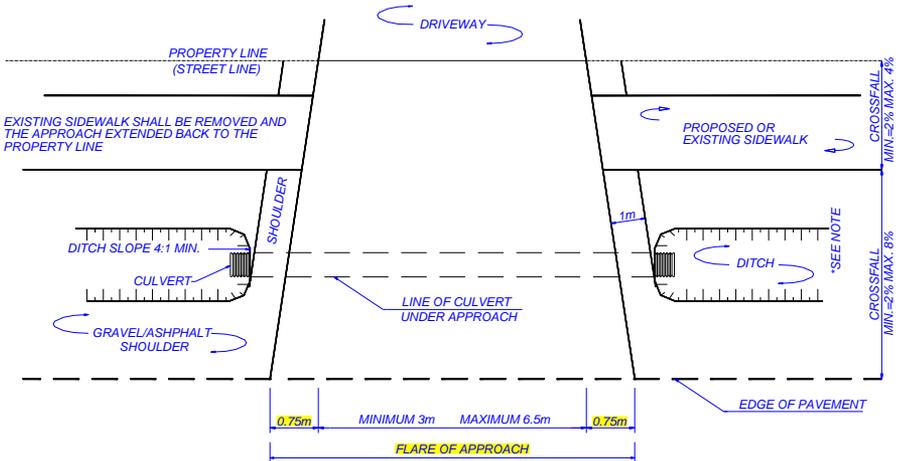
- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 2) CAP SIDE SLOPES AROUND THE CULVERT ENDS WITH IMPERVIOUS CLAY
- 3) CULVERT END MARKERS ARE TO BE INSTALLED ON THE ENDS OF THE CULVERT AS PER CW3610.

Reference Spec No.  
CW 3330, CW 3110,  
CW 3335, CW 3610

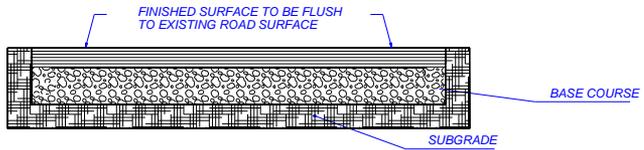
N.T.S.

## Figure 19: Non-Regional Streets with Shoulders

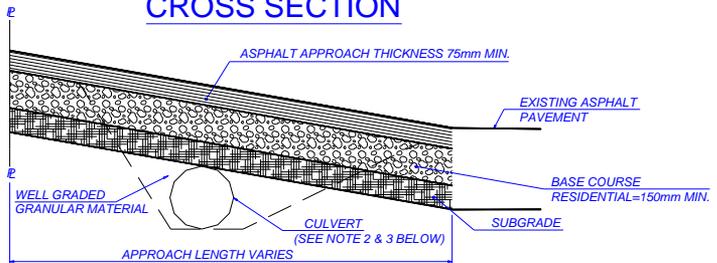
### 3.) Residential Asphalt Approach



### PLAN VIEW



### CROSS SECTION



### LONGITUDINAL SECTION

#### NOTE

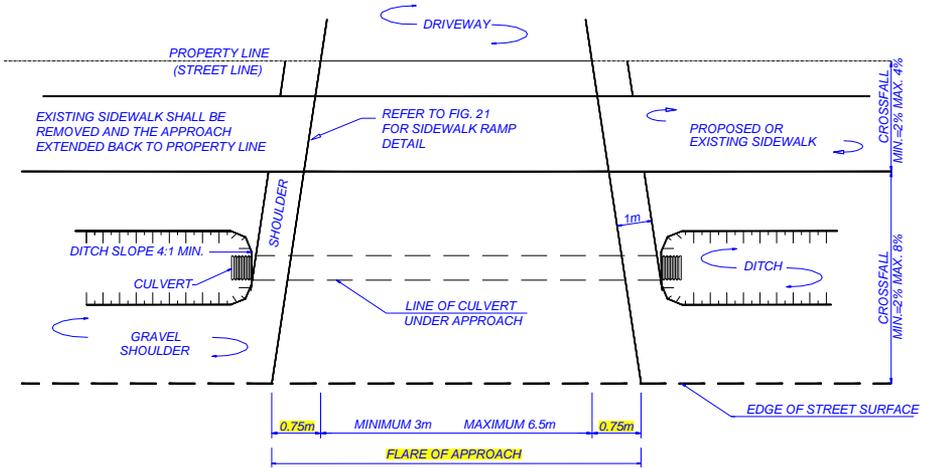
- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED).
- 2) CAP SIDE SLOPES AROUND THE CULVERT ENDS WITH IMPERVIOUS CLAY
- 3) CULVERT END MARKERS ARE TO BE INSTALLED ON THE ENDS OF THE CULVERT AS PER CW3610.

Reference Spec No.  
CW 3240, CW 3610,  
CW 3110, CW 3410

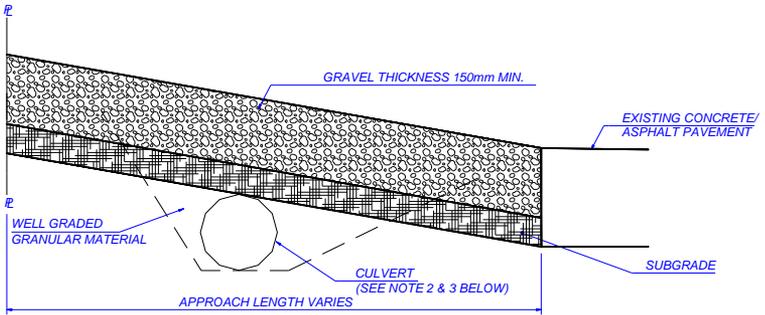
**N.T.S.**

## Figure 20: Non-Regional Streets with Shoulders

### 4.) Residential Gravel Approach



### PLAN VIEW



### LONGITUDINAL SECTION

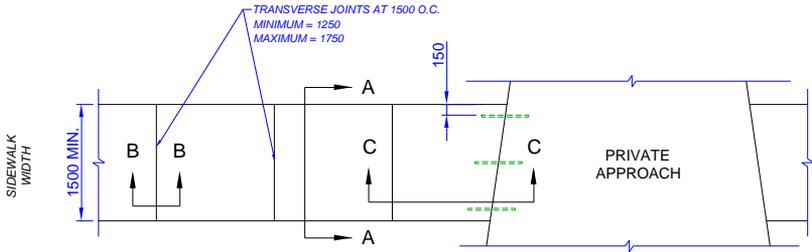
#### NOTE

- 1) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED).
- 2) CAP SIDE SLOPES AROUND THE CULVERT ENDS WITH IMPERVIOUS CLAY
- 3) CULVERT END MARKERS ARE TO BE INSTALLED ON THE ENDS OF THE CULVERT AS PER CW3610.

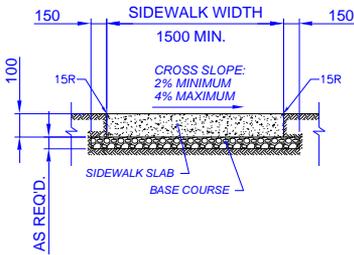
Reference Spec No. CW 3240, CW 3610, CW 3110, CW 3410
N.T.S.

**Figure 21**

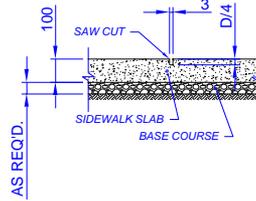
Public and Residential Concrete Sidewalk Ramp Detail



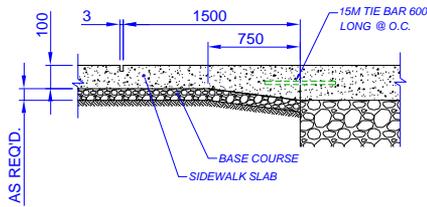
PLAN



SECTION A - A



SECTION B - B



SECTION C - C

**NOTE**

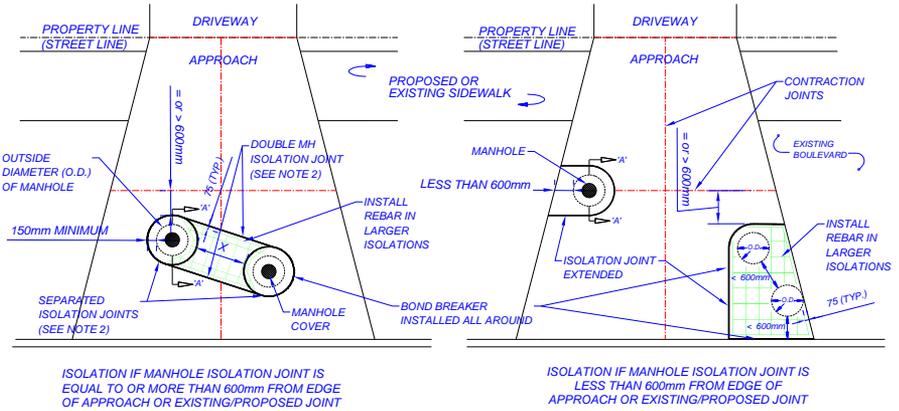
- 1) SIDEWALK SLAB SURFACE WILL BE GIVEN A TEXTURED BROOM FINISH. NO EDGER MARKS WILL BE LEFT.
- 2) LONGITUDINAL JOINTS AT 1500 O.C. MAXIMUM
- 3) ALL DIMENSIONS IN MILLIMETERS
- 4) FOR PRIVATE APPROACHES WITH CURBS, CURB RAMPS SHALL BE INSTALLED

Reference Spec No.  
CW 3235, CW 3310,  
CW 3325

**N.T.S.**

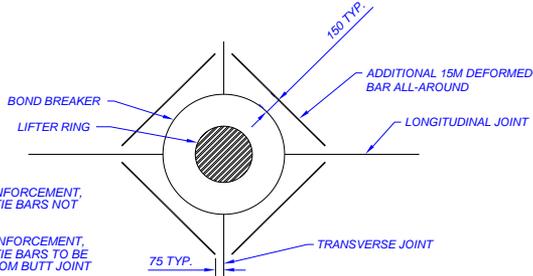
**Figure 22**

**Manhole Isolation Details for Concrete Approaches**

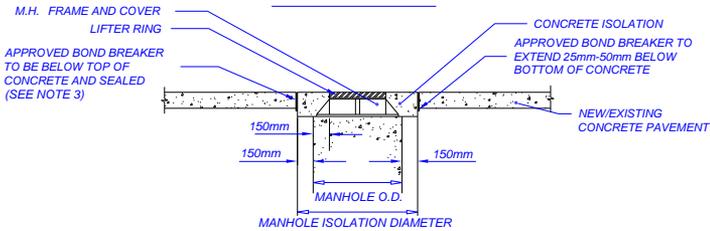


**NOTE:**

1. BAR MAT REINFORCEMENT, DOWELS AND TIE BARS NOT SHOWN
2. BAR MAT REINFORCEMENT, DOWELS AND TIE BARS TO BE 100mm TYP. FROM BUTT JOINT



**PLAN VIEW**



**SECTION A - A**

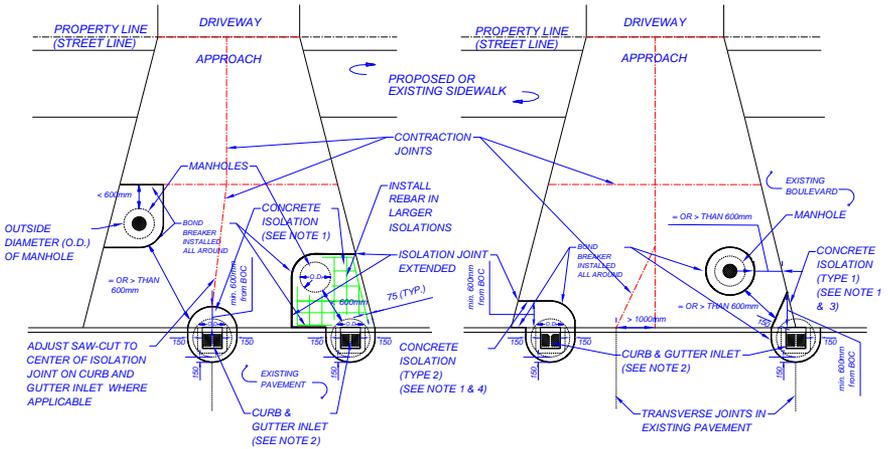
**NOTE**

- 1) MANHOLE ISOLATION DIAMETER = 150mm MINIMUM FROM CONCRETE BARREL DESPITE POSITION OF FRAME AND COVER. (O.D. = OUTSIDE DIAMETER OF MANHOLE CONCRETE BARREL)
- 2) DOUBLE MANHOLE ISOLATION NEEDED WHERE 'X' BETWEEN THE TWO MANHOLES ARE LESS THAN 600mm. ISOLATIONS CAN BE SEPARATED WHERE DISTANCES ARE MORE THAN 600mm.
- 3) ISOLATIONS TO BE FORMED WITH A RIGID FORM BOARD AND POURED SEPERATELY. ONLY APPROVED MATERIALS FOR BOND BREAKER TO BE USED.

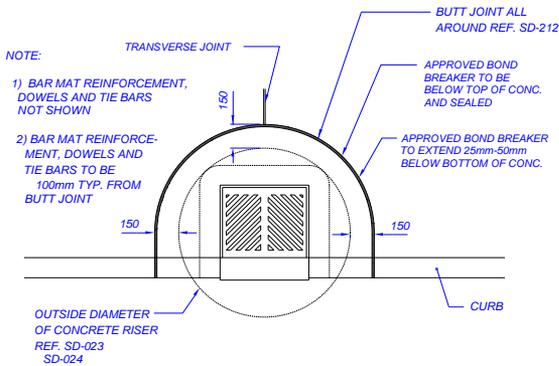
Reference Spec No. CW 3310
<b>N.T.S.</b>

**Figure 23**

**Curb and Gutter Inlet and Manhole Isolation Detail  
in Concrete/Asphalt Over Concrete Approaches**



**PLAN VIEW**



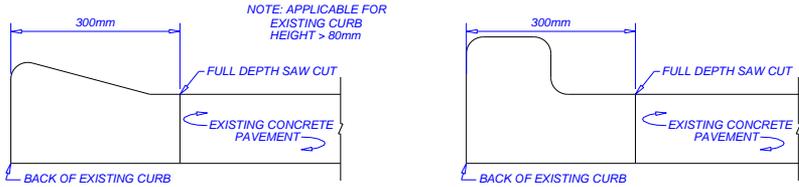
**NOTE**

- 1) CURB AND GUTTER INLET TO BE ISOLATED MIN. 150mm FROM OUTSIDE DIAMETER OF CONCRETE RISER WITHIN APPROACH AND EXTENDED A MIN. 600mm FROM BACK OF CURB.
- 2) WHERE A CURB & GUTTER INLET ALREADY EXISTS IN THE STREET, CONCRETE ISOLATION SHOULD BE REMOVED, RE-ISOLATED AND RE-POURED. IT MAY REQUIRE A NEW FRAME AND COVER, CONTACT AN INSPECTOR PRIOR TO EXCAVATION.
- 3) IF THE FLARE SITS IN THE MIDDLE OF THE CURB & GUTTER INLET OR LESS, A 'TRIANGULAR' ISOLATION IS REQUIRED.
- 4) IF THE FLARE SITS FURTHER THAN THE MIDDLE OF THE CURB & GUTTER INLET, A 'SEMI-CIRCULAR' ISOLATION EXTENDED TO THE EDGE OF PAVEMENT IS REQUIRED.

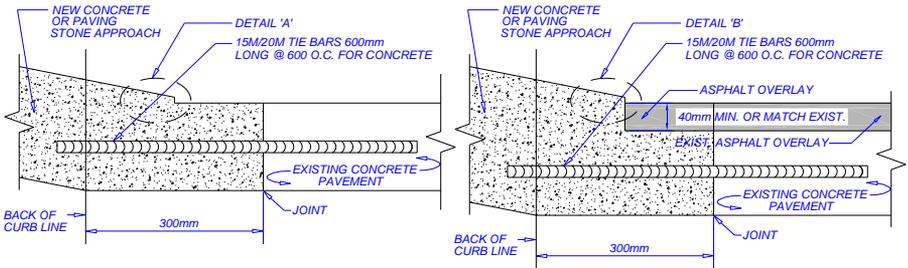
Reference Spec No. CW 3310
<b>N.T.S.</b>

**Figure 24**

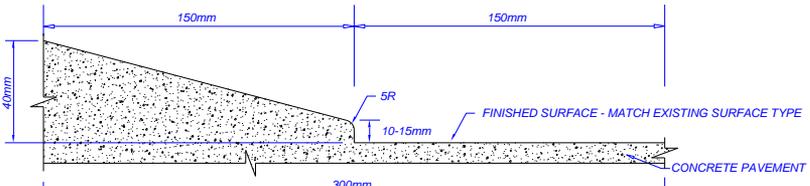
Curb and Gutter Replacement for Commercial and Residential Approaches;  
Concrete/Paving Stone or Asphalt Streets with Barrier or Lip Curbs > 80mm



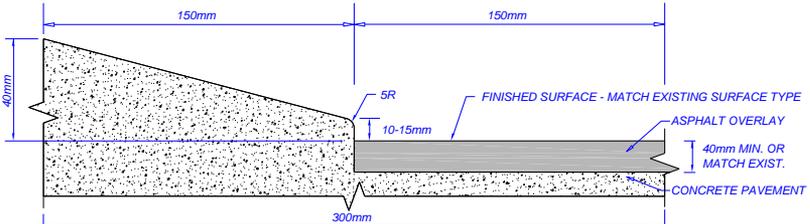
**REMOVAL**



**REPLACEMENT**



**DETAIL 'A'**

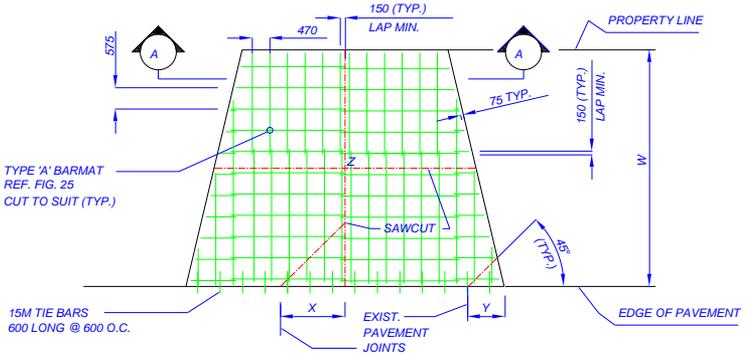


**DETAIL 'B'**

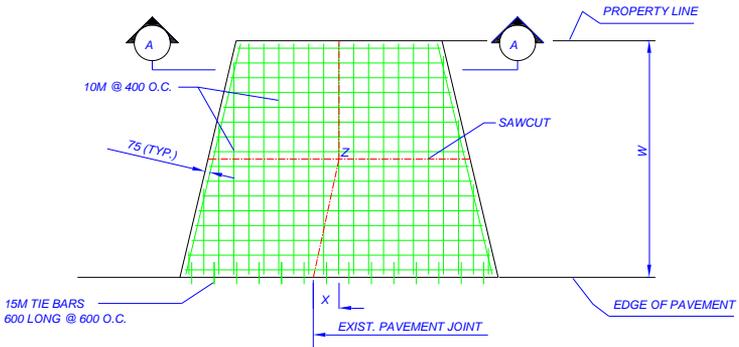
Reference Spec No. CW 3235, CW 3310, CW 3325	<b>N.T.S.</b>
--	---------------

**Figure 25**

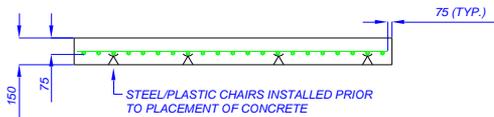
*Residential Approach Reinforcing Steel Saw Cut Layouts and Bar Mat Layout for Approaches*



**ALTERNATIVE 1 - BAR MATS (12.7mm PLAIN)**



**ALTERNATIVE 2 - 10M (DEFORMED)**



**SECTION A-A**

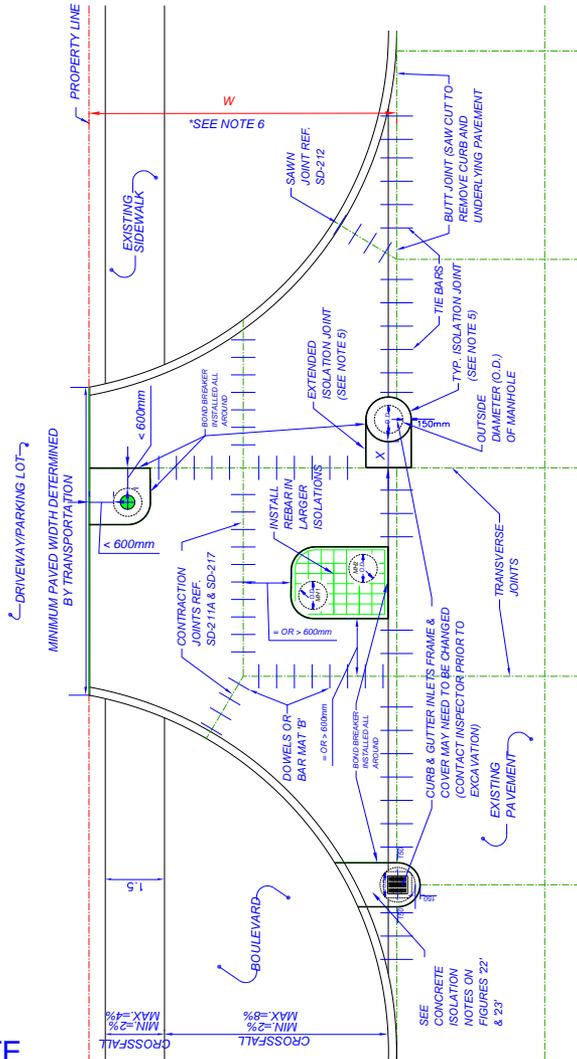
**NOTE**

- 1) DIMENSIONS ARE IN MILLIMETERS.
- 2) TRANSVERSE SAW CUT AT PAVEMENT JOINTS.
- 3) ALL SAW CUTS SHALL BE 50mm DEEP BY 3 mm WIDE SAW CUTTING LAYOUTS SHOWN ARE TWO POSSIBLE OPTIONS IF "W" > 4300 ADD SAWCUT AT W/2, IF "X" < 1000 EXTEND SAWCUT TO POINT "Z", IF "Y" < 1000 NO SAWCUT REQUIRED

Reference Spec No. CW 3230, CW 3310
<b>N.T.S.</b>

# Figure 26

## Commercial Approach Saw Cut Layouts



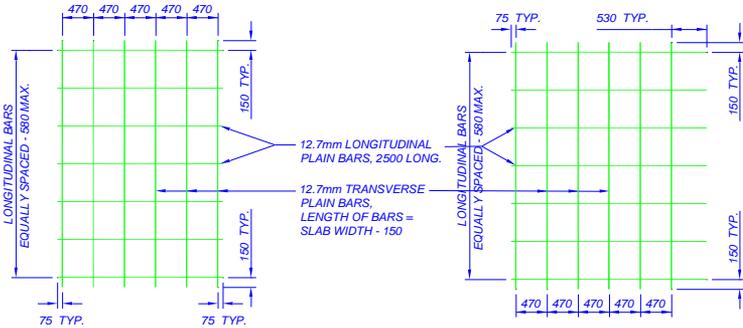
### NOTE

- 1) WHERE NO SIDEWALK EXISTS, APPROACH SHALL BE CONSTRUCTED TO PROPERTY LINE.
- 2) EXISTING SIDEWALK SHALL BE REMOVED AND THE APPROACH AND EXPANSION JOINT EXTENDED BACK TO THE PROPERTY LINE AS SHOWN.
- 3) M.H. ISOLATIONS TO BE APPROVED BY CONTRACT ADMINISTRATOR.
- 4) CONTRACTION JOINTS AS REQUIRED TO MATCH STREET TRANSVERSE JOINTS.
- 5) EXTEND ISOLATION JOINT TO EXISTING/PROPOSED JOINT OR EDGE OF PAVEMENT WHERE 'X' IS LESS THAN 600mm. ISOLATIONS MUST MAINTAIN 600mm MIN. OR MORE FROM EXIST. / PROPOSED JOINT OR PAVEMENT EDGE.
- 6) ALL SAW CUTS SHALL BE 50mm DEEP BY 3 mm. MAXIMUM SIZE OF 'W' IS 3000. IF 'W' > 3000 ADD SAWCUT AT W/2

Reference Spec No. CW 3230, CW 3310
N.T.S.

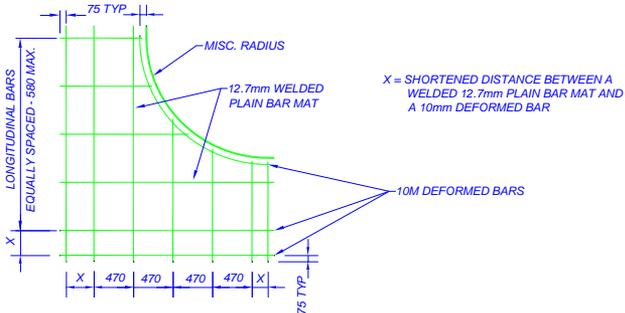
**Figure 27**

**Commercial Approach Reinforcing Steel and Layout for Type 'A' and 'B' Bar Mat Reinforcement**



**BAR MAT 'A' REINFORCEMENT**

**BAR MAT 'B' REINFORCEMENT**



**RESTRICTIVE SPACE REINFORCEMENT**

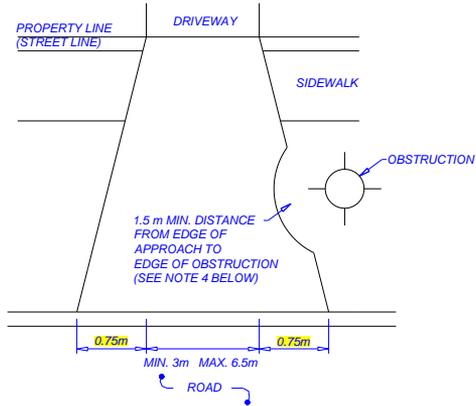
**NOTE**

- 1) ALL BAR MATS JOINTS TO BE ELECTRICALLY SPOT WELDED.
- 2) ALL DIMENSIONS ARE TO CENTRES OF BARS.
- 3) ALL DIMENSIONS ARE IN MILLIMETERS.
- 4) 10M DEFORMED BARS TO BE USED ONLY TO COMPLETE THE REINFORCEMENT GRID OR AN AREA WHERE A TYPICAL WELDED BAR MAT IS NOT FEASIBLE FOR PLACEMENT.
- 5) STEEL WIRE TO BE USED WHEN TYING 10M DEFORMED BARS.
- 6) LAYOUT FOR TYPE 'A' AND TYPE 'B' REINFORCEMENT MUST FOLLOW STANDARD DETAIL SD-217.

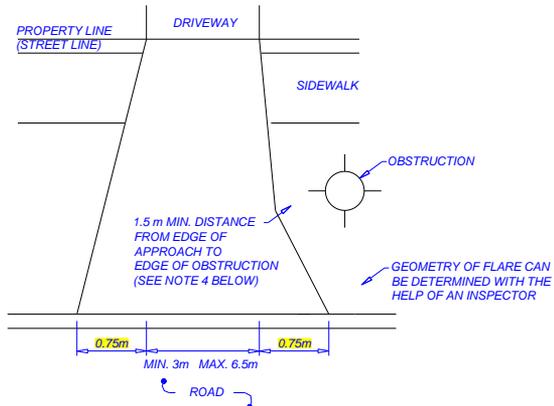
Reference Spec No. CW 3230, CW 3310
<b>N.T.S.</b>

**Figure 28**

Approaches Located Adjacent to Obstructions, Including but Not Limited to Fire Hydrants, Hydro Poles and Communication Pedestals



**INCORRECT APPROACH CONSTRUCTION**

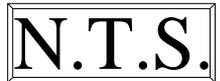


**CORRECT APPROACH CONSTRUCTION**

**PLAN VIEW**

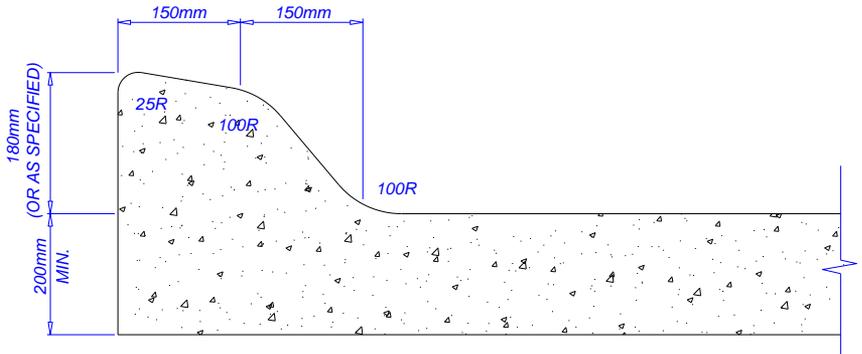
**NOTE**

- 1) APPROACHES MUST BE CONSTRUCTED TO MAINTAIN THE MIN. 1.5m CLEARANCE
- 2) OBSTRUCTIONS INCLUDE, BUT NOT LIMITED TO:  
LAMP STANDARDS, HYDRO POLES AND FIRE HYDRANTS
- 3) AREA INSPECTORS ARE AVAILABLE TO HELP WITH GEOMETRY OF APPROACH FLARES
- 4) CITY FORESTER APPROVAL IS REQUIRED IF A TREE IS WITHIN 2.0m OF THE EDGE OF AN APPROACH



**Figure 29**

Modified Barrier Curb for *Commercial* Concrete Approaches

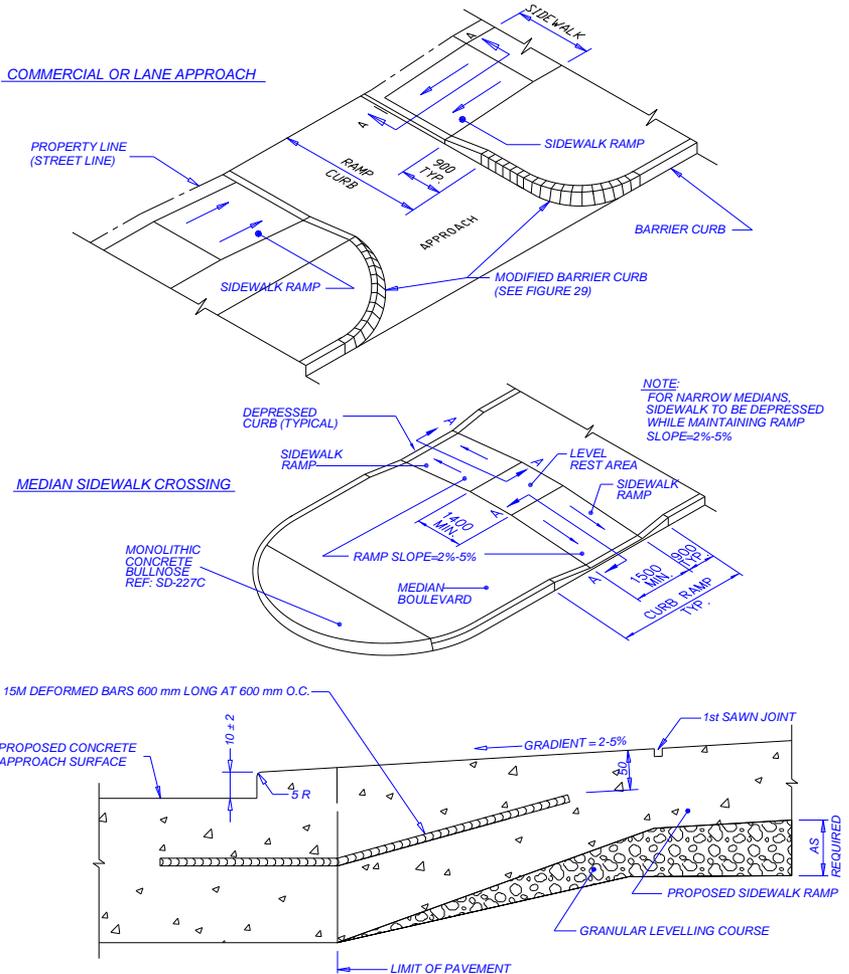


INTEGRAL MODIFIED BARRIER CURB

Reference Spec No. CW 3240, CW 3310
<b>N.T.S.</b>

**Figure 30**

**Curb Ramp Detail for Commercial Concrete Approaches**



NOTE:  
FOR NARROW MEDIANS,  
SIDEWALK TO BE DEPRESSED  
WHILE MAINTAINING RAMP  
SLOPE=2%-5%

**SECTION A-A**

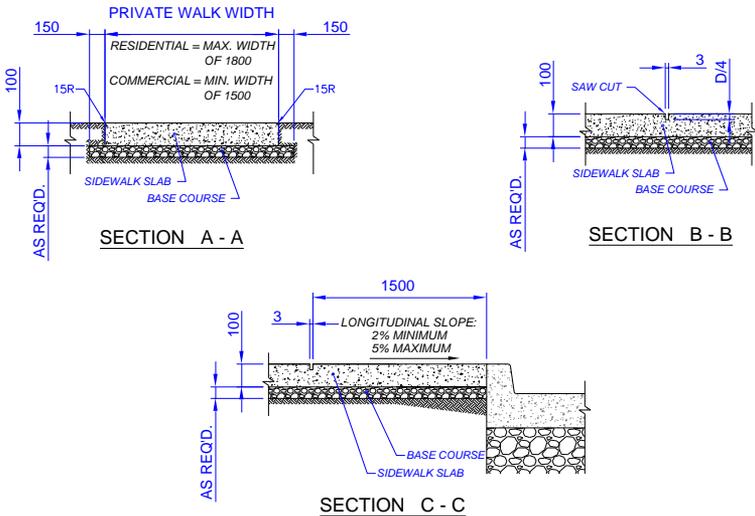
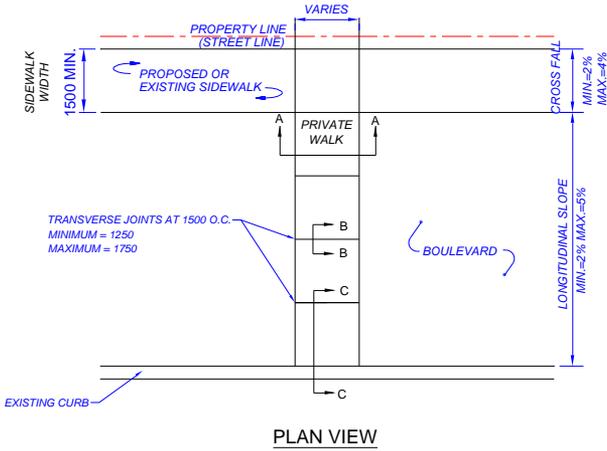
**NOTE**

- 1) SIDEWALK RAMP SURFACE SHALL BE GIVEN A TEXTURED BROOM FINISH ACROSS THE SIDEWALK.
- 2) 15M TIE BARS SHALL BE PLACED PRIOR TO THE PLACING OF ANY CONCRETE. TIE BARS SHALL BE BENT AS REQUIRED AND PLACED SO AS TO ENSURE A MINIMUM CONCRETE COVER OF 50mm.
- 3) WHEN REPLACING THE CONNECTING SIDEWALK AT AN APPROACH, THE SIDEWALK MUST MAINTAIN A 5% GRADE OR LESS (EXTRA PANELS MAY NEED TO BE REMOVED)
- 4) ALL DIMENSIONS ARE IN MILLEMMETERS.

Reference Spec No. CW 3235, CW 3310 CW 3325
N.T.S.

**Figure 31**

Private Walk Detail



**NOTE**

- 1) PRIVATE WALK SLAB SURFACE WILL BE GIVEN A TEXTURED BROOM FINISH.
- 2) LONGITUDINAL JOINTS AT 1500 O.C. MAXIMUM
- 3) ALL DIMENSIONS IN MILLIMETERS

**N.T.S.**

# GENERAL INFORMATION

## Approvals / Permits

Private approaches/walks are coordinated through one of two divisions of the Public Works Department.

For **approvals** of:

1. ALL COMMERCIAL / INDUSTRIAL/ AGRICULTURE Private Approaches/Walks  
COLLECTOR/ RESIDENTIAL Private Approach/Walks on REGIONAL STREETS<sup>12</sup>

**Contact :** Private Approach Technologist  
Email: [PWDPrivateAccess@winnipeg.ca](mailto:PWDPrivateAccess@winnipeg.ca)  
**Traffic Assessment Branch**  
**Transportation Division**  
Public Works Department  
101-1155 Pacific Ave., Winnipeg, MB R3E 3P1

2. RESIDENTIAL Private Approaches/Walks on NON-REGIONAL STREETS<sup>12</sup>

**Contact :** Plan Approval/Permit Technologist  
Phone: **204.986.4113**  
Email: [PWDPermits@winnipeg.ca](mailto:PWDPermits@winnipeg.ca)  
**Technology Services Branch**  
**Engineering Division**  
Public Works Department  
106-1155 Pacific Ave., Winnipeg, MB R3E 3P1

Always contact the applicable technologist when constructing, removing, relocating or modifying a private approach/walk. The technologist will determine if an approval/permit is required for the proposed works.

All Residential Permits are issued by the Plan Approval/Permit Technologist at 204.986.4113 or [pwdpermits@winnipeg.ca](mailto:pwdpermits@winnipeg.ca). For all Commercial Permits, the applicant is responsible for contacting customer service at **204.986.3184** or [pwdcspemits@winnipeg.ca](mailto:pwdcspemits@winnipeg.ca) to issue one after an approval has been obtained from the Transportation Division.

An approval/permit is always required to construct a new private approach/walk or for their reconstruction. When hiring a **LICENCED PRIVATE APPROACH CONTRACTOR**, you should verify that there is a valid approval/permit.

**\*NOTE:** Commercial approaches are dependent on property type as well and may be located on a Non-Regional street.

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<sup>12</sup> A map of Regional and Non-Regional streets can be found at the following link:  
<https://legacy.winnipeg.ca/publicworks/trafficControl/pdf/regionalStreetNetwork-MAP.pdf>

## Inspections

All inspections on Private Approaches/Walks are performed by the City of Winnipeg, Public Works Department, Engineering Division, Technology Services Branch by a designated employee. **Approach inspections will be available based on forecasted temperatures and precipitation, provided by Environment Canada. Precipitation can delay inspection availability throughout the construction season. While Cold Weather Conditions are in effect, as described in this manual, permission will be required prior to beginning installation of the approach.**

A plan of heating and hoarding the base prior to pour, as well as the concrete during curing and protection methods shall be submitted to the Supervisor of Right-of-way Management for approval before commencement of work, if requested. (See '*INSPECTOR CONTACTS*' on page 66).

### **TO ARRANGE FOR AN INSPECTION:**

A.M. RESIDENTIAL INSPECTIONS-Email prior to noon of the previous business day.

P.M. RESIDENTIAL INSPECTIONS-Email prior the end of the previous business day.

### **RESIDENTIAL AND COMMERCIAL APPROACH INSPECTIONS**

Provide at least twenty-four (24) hours' notice to the Residential/Commercial Approach Inspector. The City of Winnipeg will no longer accept telephone calls for **Residential/ Commercial approach inspections** but rather an email to the **Residential/Commercial Approach Inspector** will be required (see '*INSPECTOR CONTACTS*' page 66).

Emails received on Fridays (or the last business day of the week in the event of holidays) will be accommodated on Mondays (or the first business day of the week in the event of holidays)

The **Private Access Contractor** must be the one to send an email request to the inspector for the specific area where the inspection is located, a map of the '*APPROACH INSPECTION BOUNDARIES*' can be found on page 65.

## Re-inspection Fee

Where an inspection takes place and the private approach cannot be approved by the designated employee because

- a.) the work is not at a stage where an inspection of the work can take place; or
- b.) the work has not been carried out in compliance with the By-law;

An inspection fee of \$30.00 is payable by the **LICENCED CONTRACTOR** to the City.

## Commercial Approach Inspections

**An inspection of a Commercial Approach can be conducted when a UGS (Underground Structures) Approval (if required), Commercial Approach Approval and construction permit has been obtained. Please contact the Senior Private Access Inspector to book an inspection. In some cases, the consultant on site can inspect the approach when it ties into work involved in a development or remediation agreement relating to a building/development permit.**

Please discuss this with the Senior Private Access Inspector. (see 'INSPECTOR CONTACTS' page 66).

Our inspectors do not provide inspections for any 'Roadway Modifications' (median modifications/closures/openings, turning lanes, loading bays). Proposed design and as-built drawings are to be submitted to Underground Structures at [UGSApproval@winnipeg.ca](mailto:UGSApproval@winnipeg.ca) prior to construction and after to [UGSAs-built@winnipeg.ca](mailto:UGSAs-built@winnipeg.ca). It is the applicant's responsibility to retain the services of a professional Engineer Consultant in road construction, acceptable to the Director of Public Works, to oversee the construction and inspection. A Private Access Contractor with a 4<sup>th</sup> Tier Restoration Licence shall be authorized to construct these.

An Agreement with 'Terms and Conditions' to follow will be attached to the approval obtained from Transportation. (Contact info for *Commercial Approach* approvals is under 'Approvals / Permits', page 61 or 'OTHER CONTACTS', page 66)

### Cold Weather Concreting (Clause 6.12.3 of Specification CW3310)

Concrete placement shall be done in accordance with CW3310 Clause 6.12.3 for Cold Weather Conditions when there is a probability of the air temperature falling below 5°C within 24 hours of placing concrete as forecast by the nearest official meteorological office, Cold Weather concreting requirements shall apply unless otherwise specified by the City of Winnipeg, Research and Standards Engineer.

In no case shall placing concrete be allowed if the minimum air temperature is below -8°C within 24 hours of placing concrete or the average daily temperature for three consecutive days is expected to fall below -10°C as forecast by the nearest official meteorological office.

The Contractor shall be responsible for the methods of protecting the concrete from Cold Weather such as insulation (blankets and boards), heating systems such as electric blankets and hydronic heating systems, unheated or heated enclosures, or a combination of the methods to maintain the internal concrete temperature above 10°C. In no case shall the protection method be less than a combination of one layer of polyethylene film and one layer of insulated tarp with R-value of 0.5.

The recommended protection method using an insulated tarp(s) is show in Table CW3310.7.

<b>Table CW 3310.7: Minimum Thermal Resistance Values for Insulated Tarp</b>				
<b>Slab thickness (mm)</b>	<b>The Low Temperature within 24h of Placing or Average Low Ambient Air Temperature within three (3) days of Placing</b>			
	<b>R=1</b>	<b>R=2</b>	<b>R=3</b>	<b>R=4</b>
<150 mm	-	-	5 > T ≥ 0	0 > T ≥ -5
150 mm – 200 mm	-	5 > T ≥ 3	3 > T ≥ 0	0 > T ≥ -8
>200 mm	5 > T ≥ 3	3 > T ≥ 0	0 > T ≥ 3	-3 > T ≥ -8

All construction methods under Clause 6.12.3 of Specification CW3310 shall be followed for Cold Weather Concrete. Concrete damaged as a result of inadequate protection

against weather conditions shall be removed and replaced by the Contractor at his own expense.

## Approach Culverts: Diameter, Length & Elevations & Materials

- **Culvert diameter** to be determined by the City of Winnipeg, Water & Waste Department, Engineering Division, Land Drainage and Flood Protection Technologist at 204.986.3670 or [CNault@winnipeg.ca](mailto:CNault@winnipeg.ca)
- Contractor to calculate **culvert length** based on approved approach width, approach shoulder widths and a minimum 4:1 (rise over run) ditch slope.
- For *Residential culvert elevations* email the **Senior Private Access Inspector** at least five (5) working days prior to the work commencing.
  - o **It is the contractor's responsibility to follow established grades. If the approach and culvert is incorrectly installed, it will be the applicant's responsibility to correct any deficiencies at their own expense.**
- For *Commercial culvert elevations*, these are to be established by a professional engineer consultant. Depending on the scope of the project, submissions to [UGSApproval@winnipeg.ca](mailto:UGSApproval@winnipeg.ca) may be required prior to installation and as-builts are to be submitted to [UGSAs-built@winnipeg.ca](mailto:UGSAs-built@winnipeg.ca) once completed. **It will be the applicant's responsibility to correct any deficiencies at their own expense.**

### Culvert End Markers<sup>10</sup>

(Reference Spec No. CW3610)

Supply culvert end markers in accordance with the following:

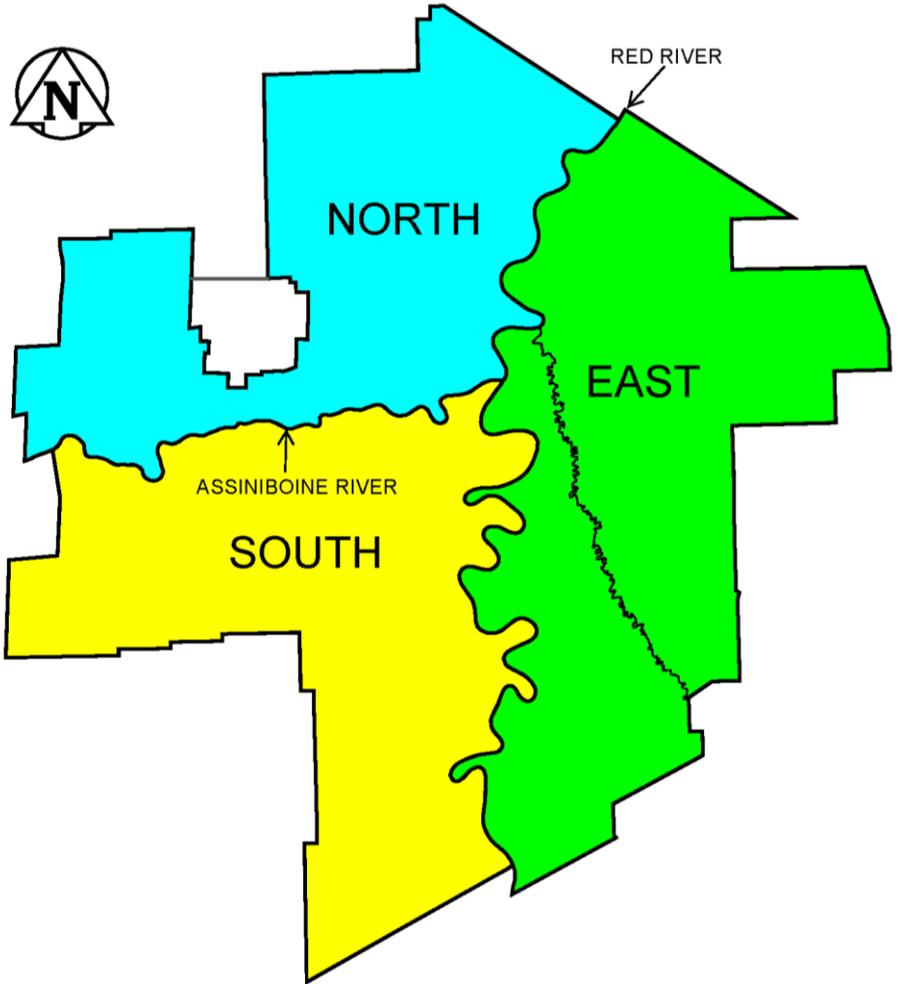
- 3.) Culvert end markers shall be 1500 ± 100mm in height.
- 4.) Culvert end markers shall be HDPE, SDR 9.3, 30mm (1¼") in diameter, bright orange in colour with an adhesive backed reflective strip placed around the marker. The reflective strip shall be placed within 25mm of the top of the marker.

## Manhole & Catch Basin Adjustment and Isolations (Reference Spec No. CW 3210 & CW 2130)

The Private Access By-law No. 49/2008, **Section 22 requires all manhole adjustments necessary for the construction of new private approaches in new subdivision be the full responsibility of the property owner.** Any adjustments that are required to the structure of the manhole i.e. concrete risers; pipe and barrel repairs shall be completed by a licenced sewer and water contractor. Manholes/catch basins are to be isolated as outlined on **Figure 22 & Figure 23.** (See **page 67, 'LINKS'** - Licenced Sewer/Water Contractors) The installation of cast iron lifter rings or installation of levelling bricks may be performed by an experienced licensed approach contractor. All works must be performed to the City of Winnipeg Standard Construction Specifications and must be inspected prior to pouring of the concrete approach, and re-inspected when completed.

**If a manhole/catch basin is present, please email the Area Approach Inspector and Senior Private Access Inspector prior to excavating for the approach.** (See 'INSPECTOR CONTACTS': **page 66**)

# APPROACH INSPECTION BOUNDARIES



# INSPECTOR CONTACTS

Contact	Contact Information
<b>Supervisor of Right-of-Way Management</b> (Licensing & Compliance)	<b>204.794.4354</b> <b>OTarasov@winnipeg.ca</b>
<b>Senior Private Access Inspector</b> (Inspections, Compliance, General Inquiries, Culvert Elevations, Manhole & Catch Basin Adjustments)	<b>204.612.9482</b> <b>DLeal@winnipeg.ca</b>
<b>North Area Residential Approach Inspector*</b>	<b>pwapproachN@winnipeg.ca</b>
<b>South Area Residential Approach Inspector*</b>	<b>pwapproachS@winnipeg.ca</b>
<b>East Area Residential Approach Inspector*</b>	<b>pwapproachE@winnipeg.ca</b>

**\*The Residential Approach Inspectors' email addresses are only active during the construction season (approximately May to October, weather dependent)**

## OTHER CONTACTS

**Plan Approval/ Permit Technologist**  
(Residential on Non- Regional Streets Permits/Approvals)

[PWDpermits@winnipeg.ca](mailto:PWDpermits@winnipeg.ca) or  
204.986.4113

**Private Approach Technologist (All Commercial & Residential on Regional Streets Approvals)**

[PWDPPrivateAccess@Winnipeg.ca](mailto:PWDPPrivateAccess@Winnipeg.ca)

**Customer Services Branch**  
(Payments and Commercial Permits)

[PWDcspermits@winnipeg.ca](mailto:PWDcspermits@winnipeg.ca) or  
204.986.3184

For **Culvert Diameter** contact (Water & Waste Department, Engineering Division, Land Drainage & Flood Protection Technologist)

[CNault@winnipeg.ca](mailto:CNault@winnipeg.ca) or 204.986.3670

**Underground Structures Branch**

[UGSAApproval@winnipeg.ca](mailto:UGSAApproval@winnipeg.ca) and  
[UGSAs-built@winnipeg.ca](mailto:UGSAs-built@winnipeg.ca)

**Traffic Management Branch**

[PWDLaneClosures@winnipeg.ca](mailto:PWDLaneClosures@winnipeg.ca) or  
204.986.5640

**City Forester**

[chrismcdonald@winnipeg.ca](mailto:chrismcdonald@winnipeg.ca)

**PP&D & Zoning**

[PPD-zoningapplications@winnipeg.ca](mailto:PPD-zoningapplications@winnipeg.ca)  
or 204.986.5140

## LINKS

- List of City of Winnipeg's **Licensed Private Access Contractors** available: [https://legacy.winnipeg.ca/publicworks/permitsApprovals/pdf/approaches/list\\_lic\\_appr\\_contractors.pdf](https://legacy.winnipeg.ca/publicworks/permitsApprovals/pdf/approaches/list_lic_appr_contractors.pdf)
- List of City of Winnipeg's **Licensed Sewer/Water Contractors**: [Licensed Sewer and Water Contractors - Water and Waste - City of Winnipeg](https://legacy.winnipeg.ca/publicworks/permitsApprovals/pdf/approaches/list_lic_appr_contractors.pdf)
- The City of Winnipeg's **Private Access By-Law No. 49/2008**; available: <https://clkapps.winnipeg.ca/DMIS/docext/ViewDoc.asp?DocumentTypeld=1&DocId=4136>
- The City of Winnipeg's **Streets By-Law No. 1481/77**; available: <https://clkapps.winnipeg.ca/DMIS/docext/ViewDoc.asp?DocumentTypeld=1&DocId=304>
- The City of Winnipeg's **Manual of Temporary Traffic Control on City Streets**; available: <https://legacy.winnipeg.ca/publicworks/trafficControl/manual-temporary-traffic-control.stm>
- The City of Winnipeg's **Standard Construction Specifications**: <https://legacy.winnipeg.ca/matmgt/Spec/Default.stm>
- The City of Winnipeg's **Accessibility Design Standards**: [https://legacy.winnipeg.ca/ppd/Universal\\_Design.stm](https://legacy.winnipeg.ca/ppd/Universal_Design.stm)
- Relocation of Hydro Poles, Light Standards, Guy-Wire/Anchor: [https://www.hydro.mb.ca/accounts\\_and\\_services/services\\_and\\_lighting](https://www.hydro.mb.ca/accounts_and_services/services_and_lighting)
- Approved Product Suppliers: [https://legacy.winnipeg.ca/finance/findata/matmgt/std\\_const\\_spec/current/Docs/Approved\\_Product\\_Suppliers.pdf](https://legacy.winnipeg.ca/finance/findata/matmgt/std_const_spec/current/Docs/Approved_Product_Suppliers.pdf)
- Snap Edge Canada Ltd.: [Snapedge Paving Stone Edging | Barrier Edging | Hardscape Products | Home](https://www.snapedge.ca/)











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