

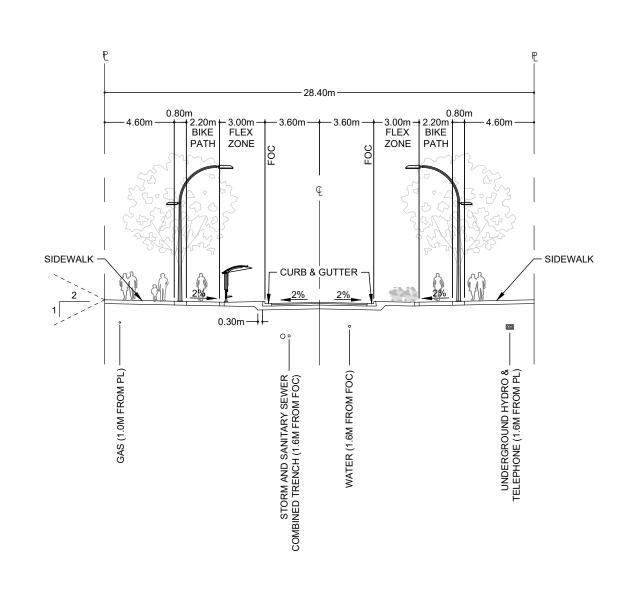
- 1. PAVED SURFACE 125mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 200mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. BARRIER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-1.
- 5. CENTER MEDIANS TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH STANDARD DRAWING CS-7.
- 6. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- 7. FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES.
- BANDING/BUFFER ON EITHER SIDE OF THE BIKE PATH SHALL BE 0.3m STAMPED CONCRETE WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS. WHERE VERTICAL SEPARATION IS PREFERRED, MOUNTABLE MONOLITHIC CURB MAY BE UTILIZED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
- 9. ROAD HAS CONTROLLED ACCESS. ACCESS UNDER APPROVAL FROM CITY ENGINEER.
- 10. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.
- 11. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 12. LANDSCAPING TO BE IN ACCORDANCE WITH SECTION 14.



STREET TYPES & CROSS SECTIONS MOBILITY ARTERIAL

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	Rev Date:	MAY 2020
L	Dwg No:	MA-XS1

G/INFRASTRUCTURE PLANNING/STANDARDS & PRODUCTS/MOESSEDITION N013 MAY 220/2020-05-01 FINAL MOESS EDITION N013 DOCUMENT2020 DRAWING SECTION 8 DWGS/MA-XS1



- 1. PAVED SURFACE 100mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 150mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. BARRIER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-1.
- 5. CENTER MEDIANS TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH STANDARD DRAWING CS-7.
- 6. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- 7. FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, POCKET PARKING, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES.
- 8. SIDEWALK TO INTEGRATE WITH BUILDING FRONTAGE.
- 9. BANDING/BUFFER ON EITHER SIDE OF THE BIKE PATH SHALL BE 0.3m STAMPED CONCRETE WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS. WHERE VERTICAL SEPARATION IS PREFERRED, MOUNTABLE MONOLITHIC CURB MAY BE UTILIZED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
- 10. POCKET PARKING DOOR ZONES OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE.
- 11. ROAD HAS CONTROLLED ACCESS. ACCESS UNDER APPROVAL FROM CITY ENGINEER.
- CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.
 STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 12. STREET TREES TO BE DESIGNED USING SOIL VOLUMES OR SILVA CELLS AS PER SECTION 14.



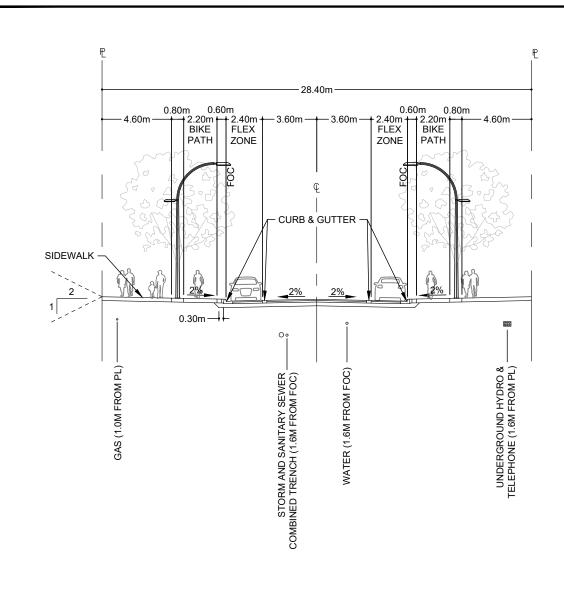
STREET TYPES & CROSS SECTIONS MOBILITY COLLECTOR (BOULEVARDS)

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MAN/ MAN/ 8. SIDE 9. BANE LINE3 UTILI 10. POCH 11. ROAI 12. CRO3 11. STRE 12. STRE 12. STRE

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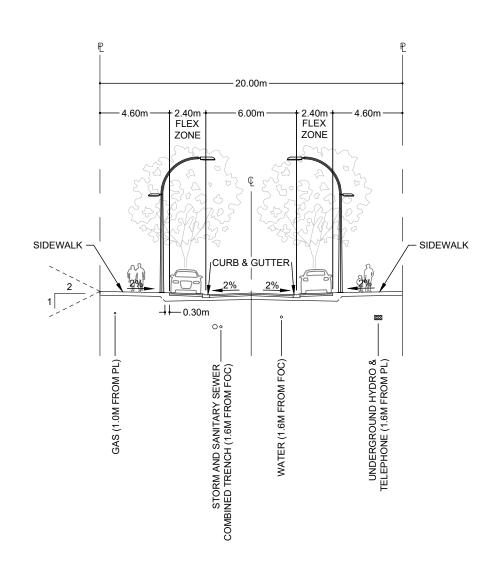


- 1. PAVED SURFACE 100mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 150mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. BARRIER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-1.
- 5. CENTER MEDIANS TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH STANDARD DRAWING C-7.
- 6. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE
- CROSSFALL. ROLLOVER OR VALLEY CURB TO BE USED AS GRADE BREAK FOR DRAINAGE PURPOSES.
- 7. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- 8. FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, POCKET PARKING, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES.
- 9. SIDEWALK TO INTEGRATE WITH BUILDING FRONTAGE.
- 10. BANDING/BUFFER ON EITHER SIDE OF THE BIKE PATH SHALL BE 0.3m STAMPED CONCRETE WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS. WHERE VERTICAL SEPARATION IS PREFERRED, MOUNTABLE MONOLITHIC CURB MAY BE UTILIZED, ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
- 11. POCKET PARKING DOOR ZONES OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE.
- 12. ROAD HAS CONTROLLED ACCESS. ACCESS UNDER APPROVAL FROM CITY ENGINEER.
- 13. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.
- 14. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 15. STREET TREES TO BE DESIGNED USING SOIL VOLUMES OR SILVA CELLS AS PER SECTION 14.



STREET TYPES & CROSS SECTIONS MOBILITY COLLECTOR (PARKING)

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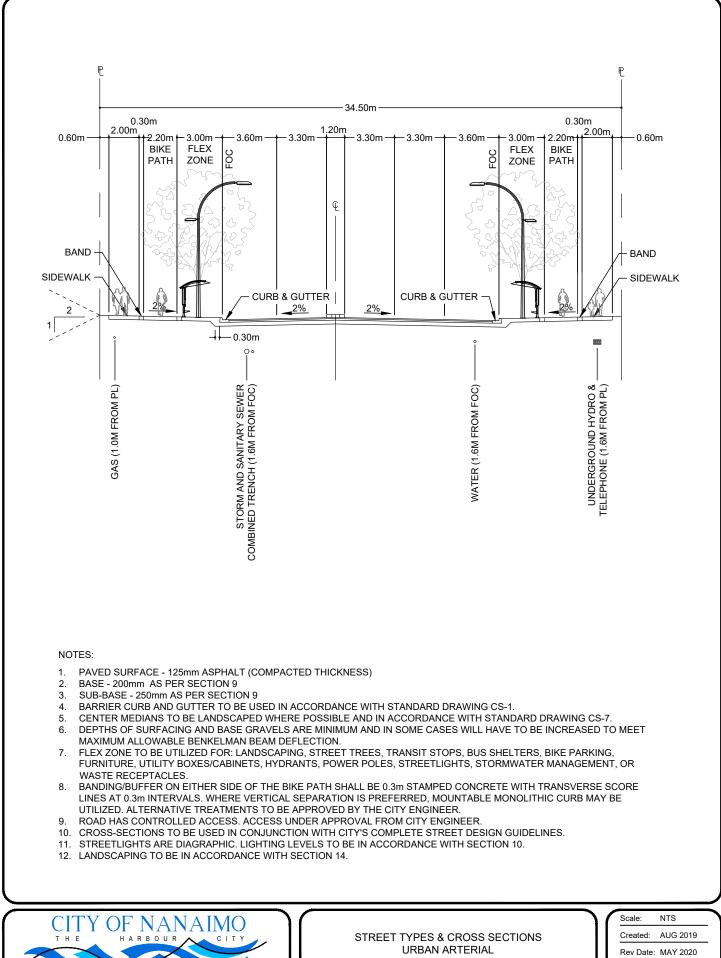


- 1. PAVED SURFACE 75mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 100mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. ROLLOVER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-3.
- 5. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE
- CROSSFALL. ROLLOVER OR VALLEY CURB TO BE USED AS GRADE BREAK FOR DRAINAGE PURPOSES.
 DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, POCKET PARKING, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES.
- 8. SIDEWALK TO INTEGRATE WITH BUILDING FRONTAGE.
- 9. BANDING, BUFFERS, POCKET PARKING DOOR ZONES, OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE.
- 10. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.
- 11. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 12. STREET TREES TO BE DESIGNED USING SOIL VOLUMES OR SILVA CELLS AS PER SECTION 14.

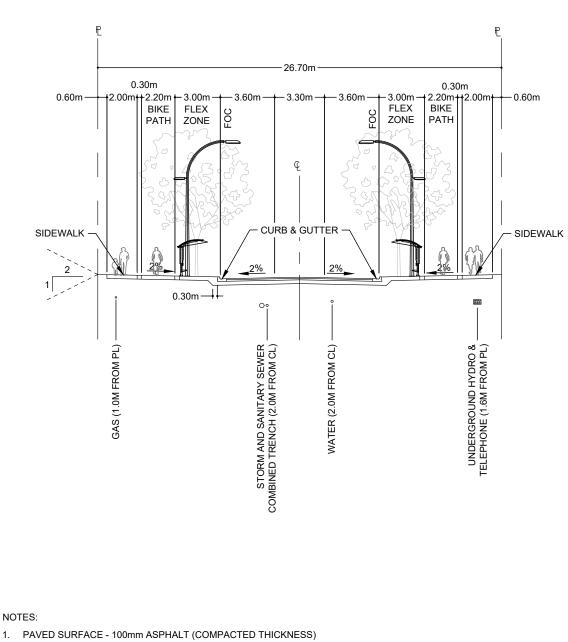


STREET TYPES & CROSS SECTIONS MOBILITY LOCAL

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	Rev Date:	MAY 2020	
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- 1.
- 2. BASE - 150mm AS PER SECTION 9 SUB-BASE - 250mm AS PER SECTION 9 3.
- 4. BARRIER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-1.
- CENTER MEDIANS TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH STANDARD DRAWING CS-7. 5.
- 6. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET
- MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- 7 FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, POCKET PARKING, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES
- BANDING/BUFFER ON EITHER SIDE OF THE BIKE PATH SHALL BE 0.3m STAMPED CONCRETE WITH TRANSVERSE SCORE 8. LINES AT 0.3m INTERVALS. WHERE VERTICAL SEPARATION IS PREFERRED, MOUNTABLE MONOLITHIC CURB MAY BE UTILIZED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
- POCKET PARKING DOOR ZONES, OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE. 9.
- 10. ROAD HAS CONTROLLED ACCESS. ACCESS UNDER APPROVAL FROM CITY ENGINEER.
- CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES. 11. 12. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- LANDSCAPING TO BE IN ACCORDANCE WITH SECTION 14. 13.

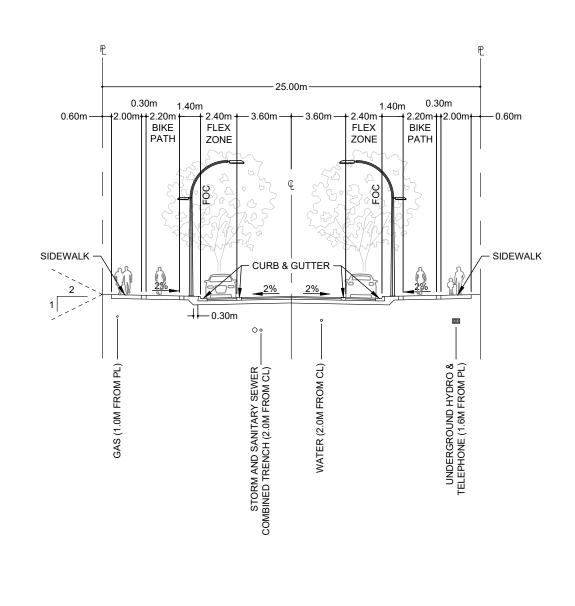


STREET TYPES & CROSS SECTIONS URBAN COLLECTOR (TURN LANE)

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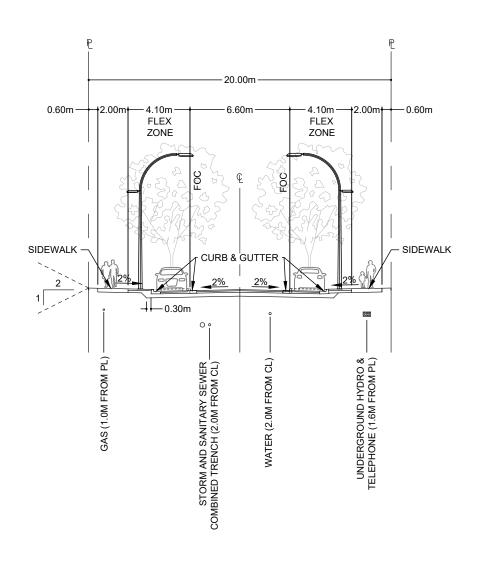


- 1. PAVED SURFACE 100mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 150mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. BARRIER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-1.
- 5. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE CROSSFALL. ROLLOVER OR VALLEY CURB TO BE USED AS GRADE BREAK FOR DRAINAGE PURPOSES.
- 6. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, POCKET PARKING, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES.
- 8. BANDING/BUFFER ON EITHER SIDE OF THE BIKE PATH SHALL BE 0.3m STAMPED CONCRETE WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS. WHERE VERTICAL SEPARATION IS PREFERRED, MOUNTABLE MONOLITHIC CURB MAY BE UTILIZED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
- 9. POCKET PARKING DOOR ZONES OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE.
- 10. ROAD HAS CONTROLLED ACCESS. ACCESS UNDER APPROVAL FROM CITY ENGINEER.
- 11. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.
- 12. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 13. LANDSCAPING TO BE IN ACCORDANCE WITH SECTION 14.



STREET TYPES & CROSS SECTIONS URBAN COLLECTOR

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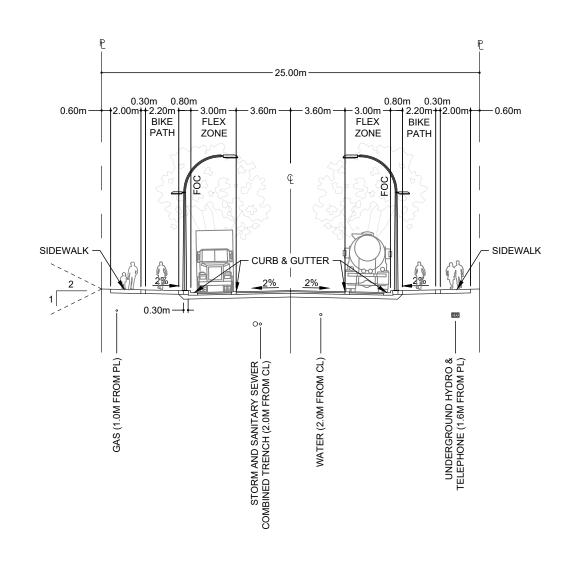


- 1. PAVED SURFACE 75mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 100mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. BARRIER CURB AND GUTTER IN ACCORDANCE WITH STANDARD DRAWING CS-1.
- 5. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE
- CROSSFALL. ROLLOVER OR VALLEY CURB TO BE USED AS GRADE BREAK FOR DRAINAGE PURPOSES.
- 6. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- 7. FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, POCKET PARKING, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES.
- 8. BANDING, BUFFERS, POCKET PARKING DOOR ZONES, OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE.
- 9. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.
- 10. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 11. LANDSCAPING TO BE IN ACCORDANCE WITH SECTION 14.



STREET TYPES & CROSS SECTIONS URBAN LOCAL

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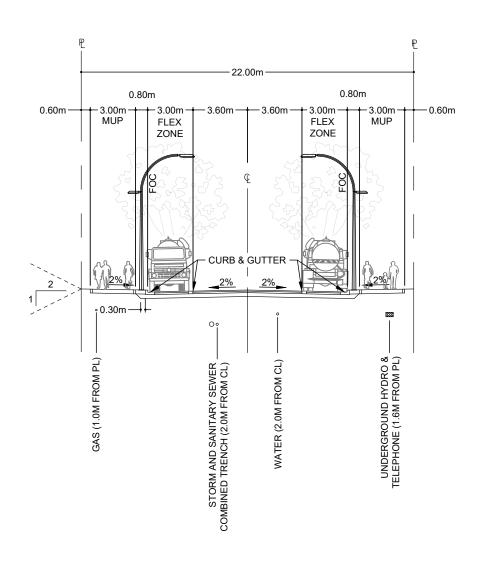


- 1. PAVED SURFACE 100mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 200mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. BARRIER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-1.
- 5. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE
- CROSSFALL. ROLLOVER OR VALLEY CURB TO BE USED AS GRADE BREAK FOR DRAINAGE PURPOSES.
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- FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, POCKET PARKING, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES.
- 8. BANDING/BUFFER ON EITHER SIDE OF THE BIKE PATH SHALL BE 0.3m STAMPED CONCRETE WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS. WHERE VERTICAL SEPARATION IS PREFERRED, MOUNTABLE MONOLITHIC CURB MAY BE UTILIZED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
- 9. POCKET PARKING DOOR ZONES, OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE.
- 10. ROAD HAS CONTROLLED ACCESS. ACCESS UNDER APPROVAL FROM CITY ENGINEER.
- 11. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.
- 12. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 13. LANDSCAPING TO BE IN ACCORDANCE WITH SECTION 14.



STREET TYPES & CROSS SECTIONS INDUSTRIAL COLLECTOR

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	Rev Date:	MAY 2020	
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- 1. PAVED SURFACE 100mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 200mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. BARRIER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-1.
- 5. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE CROSSFALL. ROLLOVER OR VALLEY CURB TO BE USED AS GRADE BREAK FOR DRAINAGE PURPOSES.
- 6. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- 7. FLEX ZONE TO BE UTILIZED FOR: LANDSCAPING, STREET TREES, POCKET PARKING, TRANSIT STOPS, BUS SHELTERS, BIKE PARKING, FURNITURE, UTILITY BOXES/CABINETS, HYDRANTS, POWER POLES, STREETLIGHTS, STORMWATER MANAGEMENT, OR WASTE RECEPTACLES.
- 8. BANDING, BUFFERS, POCKET PARKING DOOR ZONES, OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE.
- 9. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.
- 10. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 11. LANDSCAPING TO BE IN ACCORDANCE WITH SECTION 14.

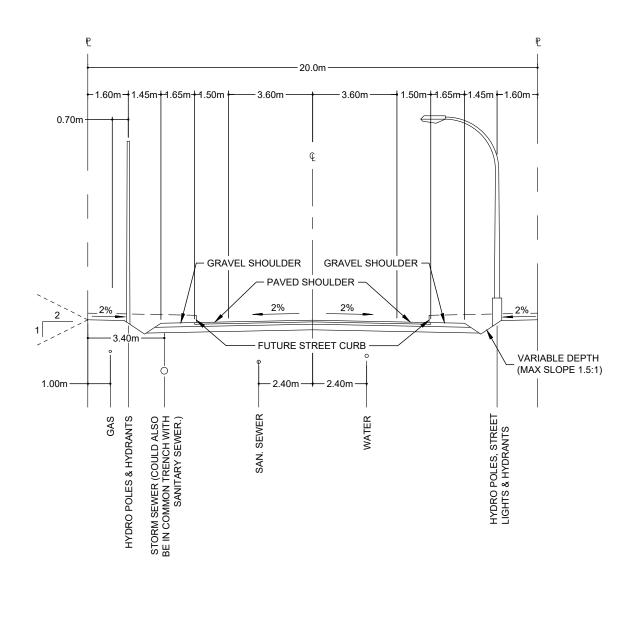


STREET TYPES & CROSS SECTIONS
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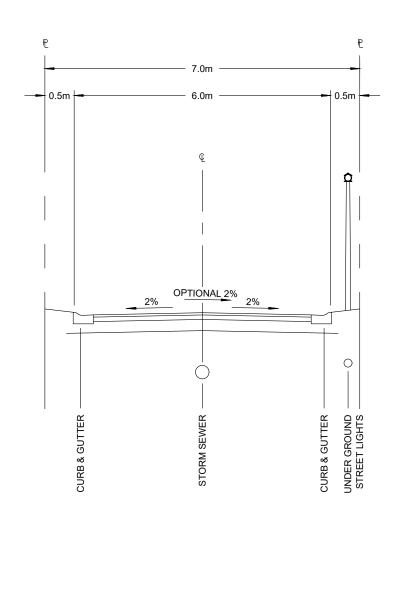
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- 1. PAVED SURFACE 75mm ASPHALT (COMPACTED THICKNESS)
- 2. BASE 100mm AS PER SECTION 9
- 3. SUB-BASE 250mm AS PER SECTION 9
- 4. SHOULDER CRUSHED GRAVEL AS PER SECTION 9
- 5. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- 6. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.
- 7. ACTIVE TRANSPORTATION REQUIREMENTS TO BE DETERMINED BY THE CITY TRANSPORTATION ENGINEER.



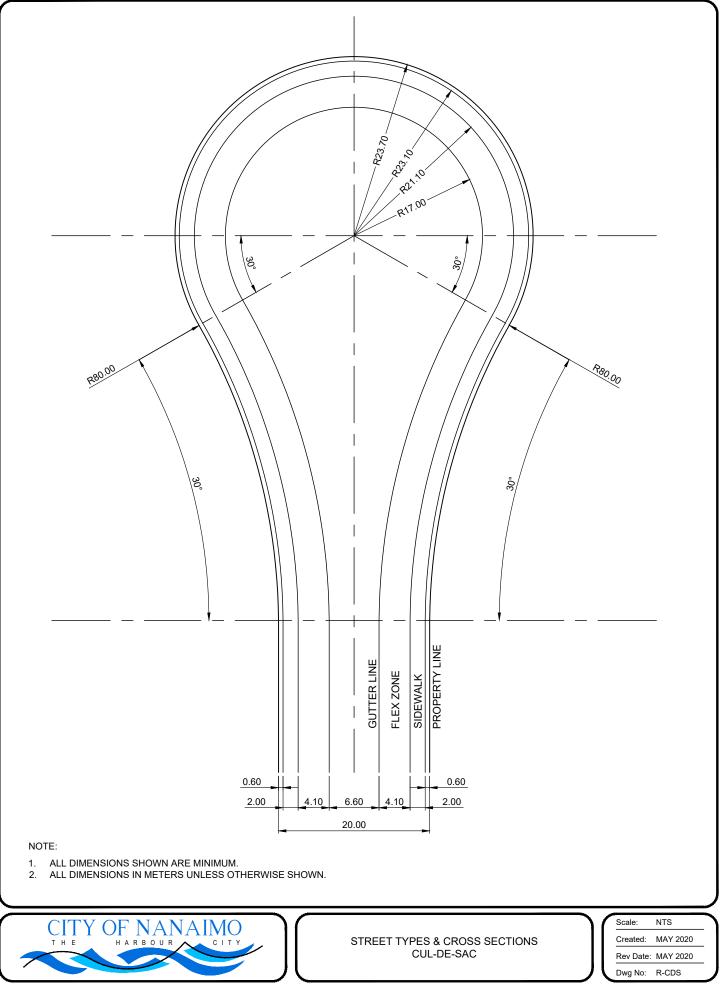
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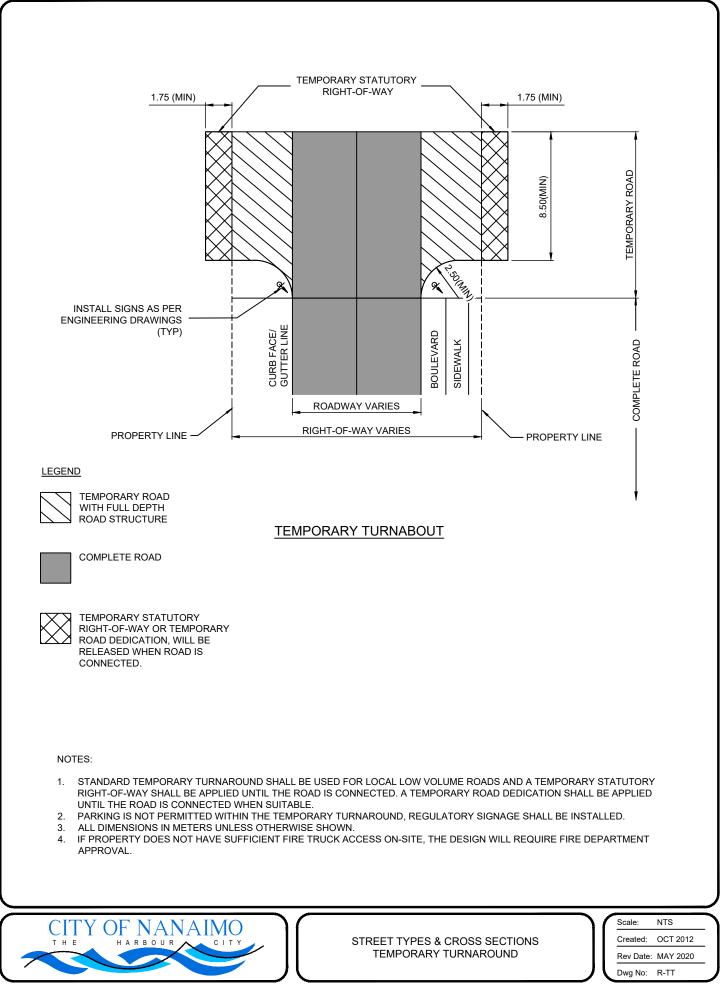


- PAVED SURFACE 75mm ASPHALT (COMPACTED THICKNESS) 1.
- BASE 100mm AS PER SECTION 9 2.
- 3. SUB-BASE - 250mm AS PER SECTION 9
- 4.
- BARRIER CURB AND GUTTER TO BE USED IN ACCORDANCE WITH STANDARD DRAWING CS-1. DEPTHS OF SURFACING AND BASE GRAVELS ARE MINIMUM AND IN SOME CASES WILL HAVE TO BE 5.
- INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.
- 6. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS TO BE IN ACCORDANCE WITH SECTION 10.



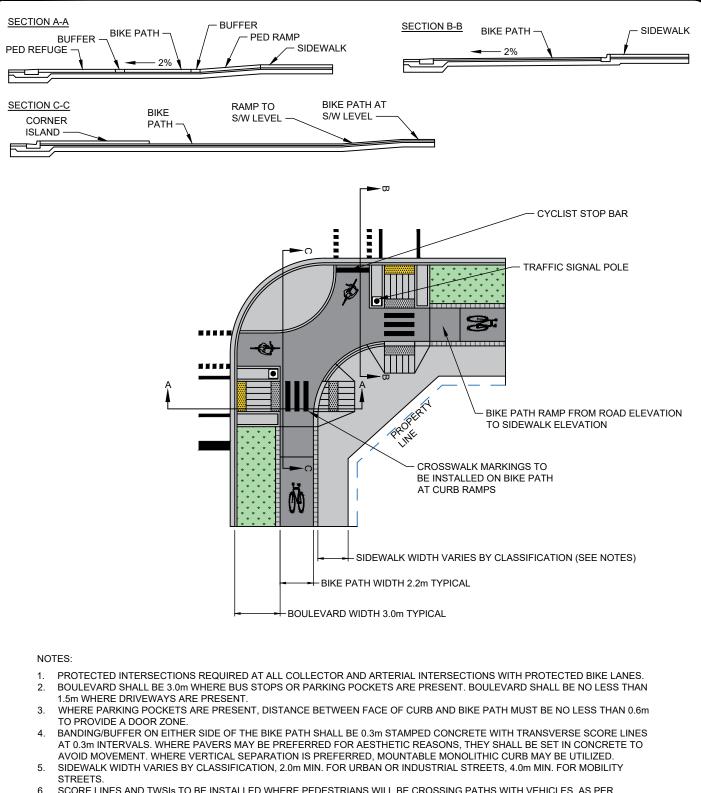
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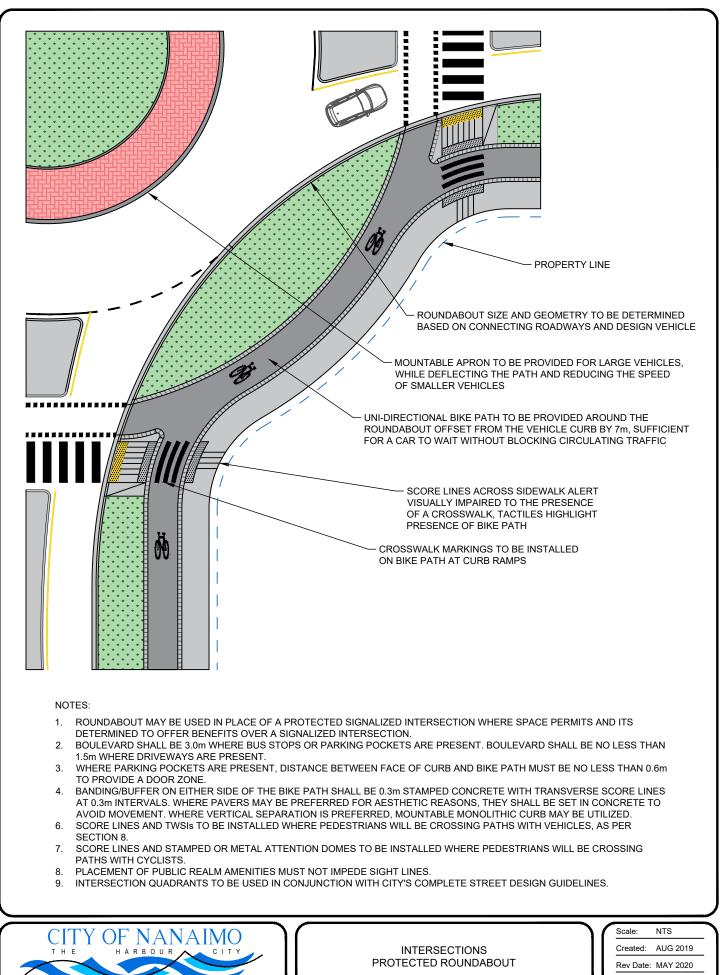


- SCORE LINES AND TWSIS TO BE INSTALLED WHERE PEDESTRIANS WILL BE CROSSING PATHS WITH VEHICLES, AS PER SECTION 8.
- 7. SCORE LINES AND STAMPED OR METAL ATTENTION DOMES TO BE INSTALLED WHERE PEDESTRIANS WILL BE CROSSING PATHS WITH CYCLISTS.
- 8. PLACEMENT OF PUBLIC REALM AMENITIES MUST NOT IMPEDE SIGHT LINES.
- 9. INTERSECTION QUADRANTS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.

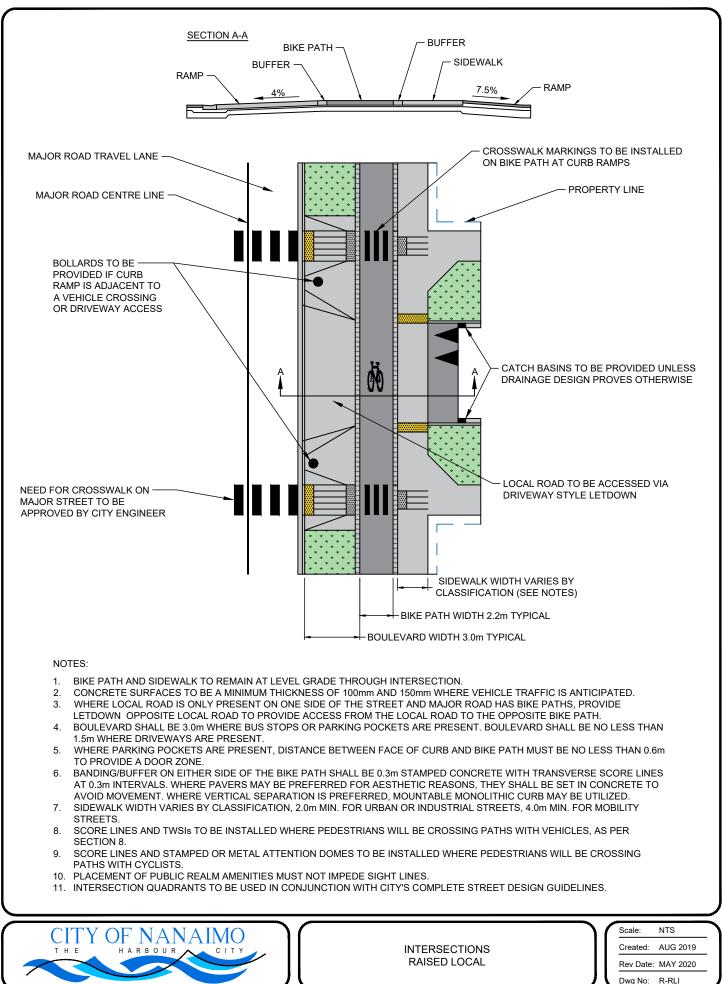


INTERSECTIONS PROTECTED

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	Created:	AUG 2019	
	Rev Date:	MAY 2020	
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TRAFFIC SIGNAL POLE IF SIGNAL CONTROLLED IF REQUIRED ACCOMMODATES NORTH-SOUTH BICYCLE PUSH BUTTON AND EAST-WEST PEDESTRIAN PUSH BUTTON TRAFFIC SIGNAL POLE IF SIGNAL CONTROLLED FOR NORTH-SOUTH PEDESTRIAN PUSH BUTTON 111 MULTI-USE PATH WIDTH 3.0m TYPICAL ¢ 10) MULTI-USE PATH DISCONTINUES AT SIDEWALK SIDEWALK ON COLLECTOR ROAD CONTINUES UNINTERRUPTED THROUGH THE INTERSECTION 例 - SIDEWALK WIDTH 2.0m TYPICAL BIKE PATH WIDTH 2.2m TYPICAL -BOULEVARD WIDTH 3.5m TYPICAL

NOTES:

- 1. BOULEVARD SHALL BE MINIMUM 3.0m WHERE BUS STOPS ARE PRESENT
- 2. BOULEVARD SHALL BE MINIMUM 3.5m WHERE PARKING POCKETS ARE PRESENT TO ALLOW WIDER PARKING SPACES.
- 3. WHERE PARKING POCKETS ARE PRESENT, DISTANCE BETWEEN FACE OF CURB AND BIKE PATH MUST BE NO LESS THAN 0.6m TO PROVIDE A DOOR ZONE.
- 4. BOULEVARD SHALL BE NO LESS THAN 1.5m WHERE DRIVEWAYS ARE PRESENT.
- 5. BANDING/BUFFER ON EITHER SIDE OF THE BIKE PATH SHALL BE 0.3m STAMPED CONCRETE WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS. WHERE PAVERS MAY BE PREFERRED FOR AESTHETIC REASONS, THEY SHALL BE SET IN CONCRETE TO AVOID MOVEMENT.
- 6. MULTI-USE PATH ON INDUSTRIAL LOCAL ROADS WILL FEATURE 0.3m STAMPED CONCRETE EDGES WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS.
- 7. SCORE LINES AND TWSIS TO BE INSTALLED WHERE PEDESTRIANS WILL BE CROSSING PATHS WITH VEHICLES, AS PER SECTION 8.
- 8. SCORE LINES AND STAMPED OR METAL ATTENTION DOMES TO BE INSTALLED WHERE PEDESTRIANS WILL BE CROSSING PATHS WITH CYCLISTS.
- 9. PLACEMENT OF PUBLIC REALM AMENITIES MUST NOT IMPEDE SIGHT LINES.
- 10. INTERSECTION QUADRANTS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDELINES.



INTERSECTIONS INDUSTRIAL

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ſ	Scale:	NTS	
	Created:	OCT 2019	
	Rev Date:	MAY 2020	
	Dwg No:	R-II	

EFFECTIVE WIDTH OF ROAD SURFACE 150 130 S Δ R12 (FOR REVERSE CURB) 150 SLOPE 6:1 SECTION AT R25 ¹⁵ WHEELCHAIR RAMP Δ' R25 Δ S 10-65 VERTICAL FACE IF FORMED SLOPED 8:1 IF EXTRUDED 150 Δ Δ 4 Δ < 25 450 25

BARRIER CURB AND GUTTER

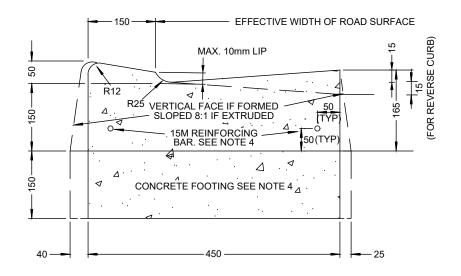
NOTES:

- 1. FOR BASE AND SUB-BASE REQUIREMENTS, REFER TO SECTION 9.
- 2. FOR CONCRETE REQUIREMENTS REFER TO SECTION 11.
- 3. THE LENGTH OF TRANSITION FROM ONE TYPE OF CURB TO ANOTHER SHALL BE THE GREATEST OF:
 - a) 50 x DIFFERENCE IN OVERALL CURB HEIGHTS.
 - b) 25 x DIFFERENCE IN GUTTER WIDTHS.
 - c) 2.0 METERS.
- 4. REINFORCING BARS OR CONCRETE FOOTING REQUIRED FOR LANE ACCESSES AND FOR COMMERCIAL AND INDUSTRIAL DRIVEWAY ACCESSES.
- 5. REVERSE CURB SHALL BE APPROVED BY CITY ENGINEER.
- 6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.



CURBS	
BARRIER CURB AND GUTTER	

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	Rev Date:	MAY 2020	•
	Dwg No:	CS-1	



DROP CURB AND GUTTER

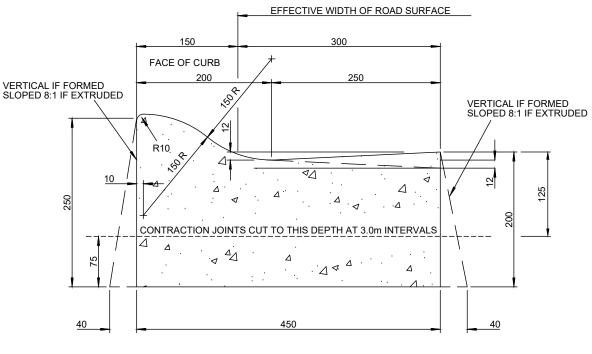
NOTES:

- 1. FOR BASE AND SUB-BASE REQUIREMENTS, REFER TO SECTION 9.
- 2. FOR CONCRETE REQUIREMENTS REFER TO SECTION 11.
- 3. THE LENGTH OF TRANSITION FROM ONE TYPE OF CURB TO ANOTHER SHALL BE THE GREATEST OF:
 - a) 50 x DIFFERENCE IN OVERALL CURB HEIGHTS.
 - b) 25 x DIFFERENCE IN GUTTER WIDTHS.
 - c) 2.0 METERS.
- 4. REINFORCING BARS OR CONCRETE FOOTING REQUIRED FOR LANE ACCESSES AND FOR COMMERCIAL AND INDUSTRIAL DRIVEWAY ACCESSES.
- 5. REVERSE CURB SHALL BE APPROVED BY CITY ENGINEER.
- 6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.



CURBS	
DROP CURB AND GUTTER	

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1	Scale:	NTS	
	Created:	SEP 2012	
	Rev Date:	MAY 2020	
	Dwg No:	CS-2	



ROLLOVER CURB AND GUTTER

NOTES:

- 1. MOUNTABLE ROLLOVER CONCRETE CURBS SHALL BE USED WITHIN CUL-DE-SACS, POCKET PARKING, OR WHERE APPROVED BY CITY ENGINEER.
- 2. FOR BASE AND SUB-BASE REQUIREMENTS, REFER TO SECTION 9.
- 3. FOR CONCRETE REQUIREMENTS REFER TO SECTION 11.
- 4. THE LENGTH OF TRANSITION FROM ONE TYPE OF CURB TO ANOTHER SHALL BE THE GREATEST OF:
 - a) 50 x DIFFERENCE IN OVERALL CURB HEIGHTS.
 - b) 25 x DIFFERENCE IN GUTTER WIDTHS.
 - c) 2.0 METERS.
- 5. REVERSE CURB SHALL BE APPROVED BY CITY ENGINEER.
- 6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.

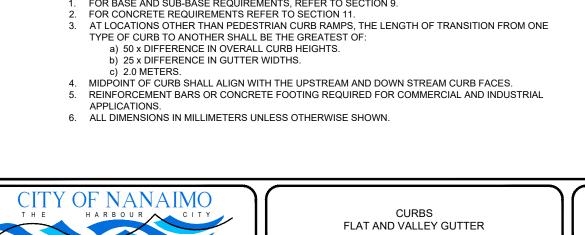


CURBS ROLLOVER CURB AND GUTTER

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	Created:	SEP 2012	
	Rev Date:	MAY 2020	_
L	Dwg No:	CS-3	

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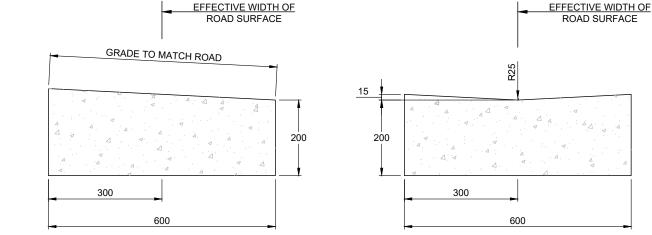
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- 1.
- FOR BASE AND SUB-BASE REQUIREMENTS, REFER TO SECTION 9.

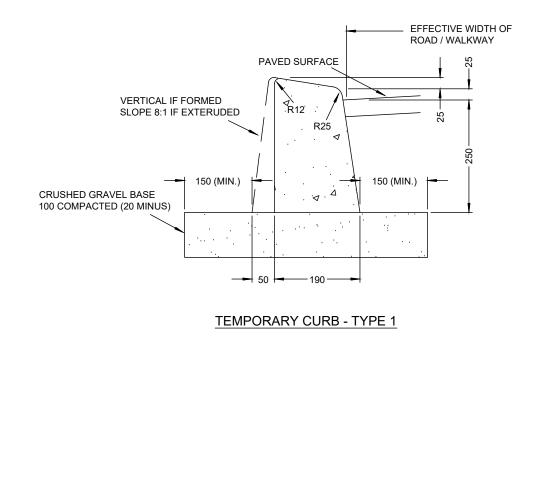
FLAT GUTTER

VALLEY GUTTER



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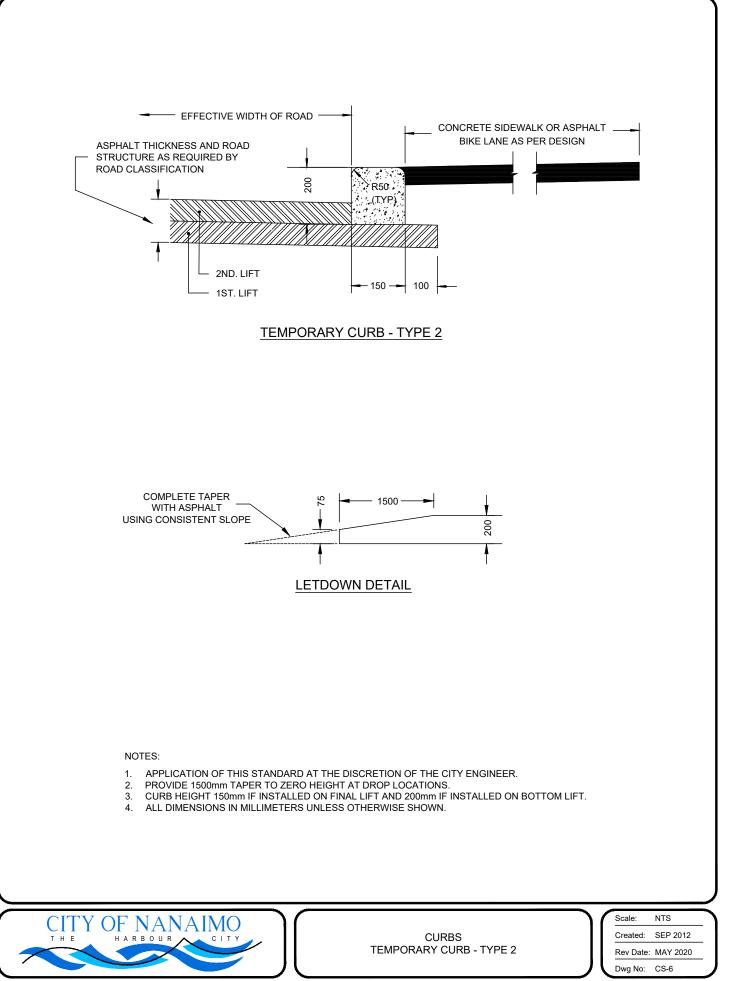
- 1. FOR BASE AND SUB-BASE REQUIREMENTS, REFER TO SECTION 9.
- 2. FOR CONCRETE REQUIREMENTS REFER TO SECTION 11.
- 3. THE LENGTH OF TRANSITION FROM ONE TYPE OF CURB TO ANOTHER SHALL BE THE GREATEST OF: a) 50 x DIFFERENCE IN OVERALL CURB HEIGHTS.
 - b) 25 x DIFFERENCE IN GUTTER WIDTHS.
 - c) 2.0 METERS.
- 4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.

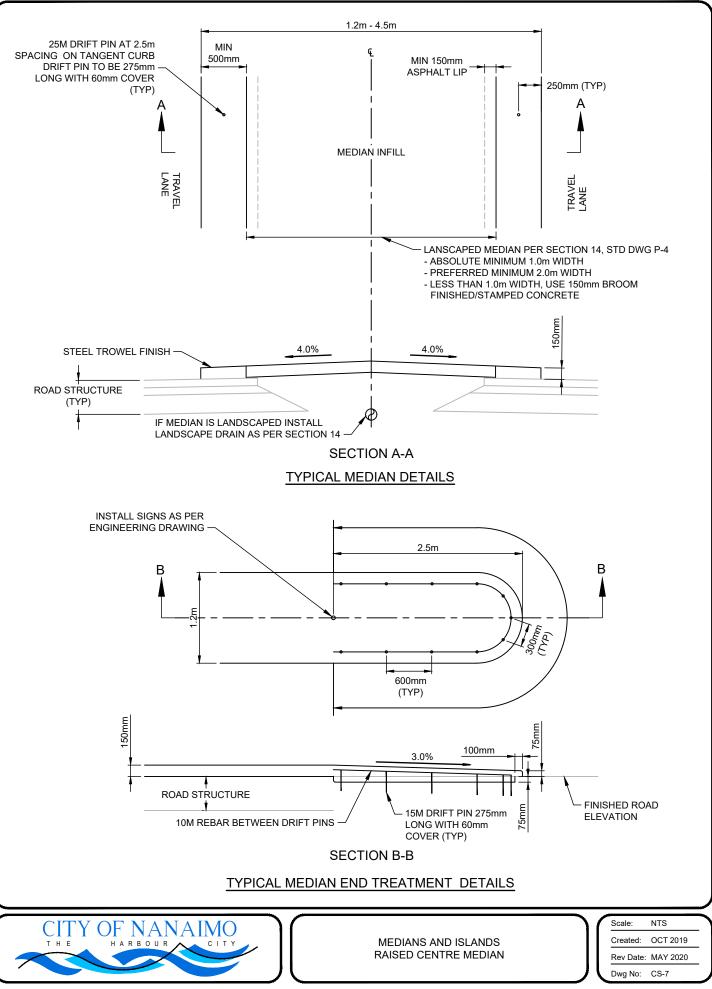


CURBS	
TEMPORARY CURB - TYPE 1	

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I	Created:	OCT 1993
l	Rev Date:	MAY 2020
	Dwg No:	CS-5

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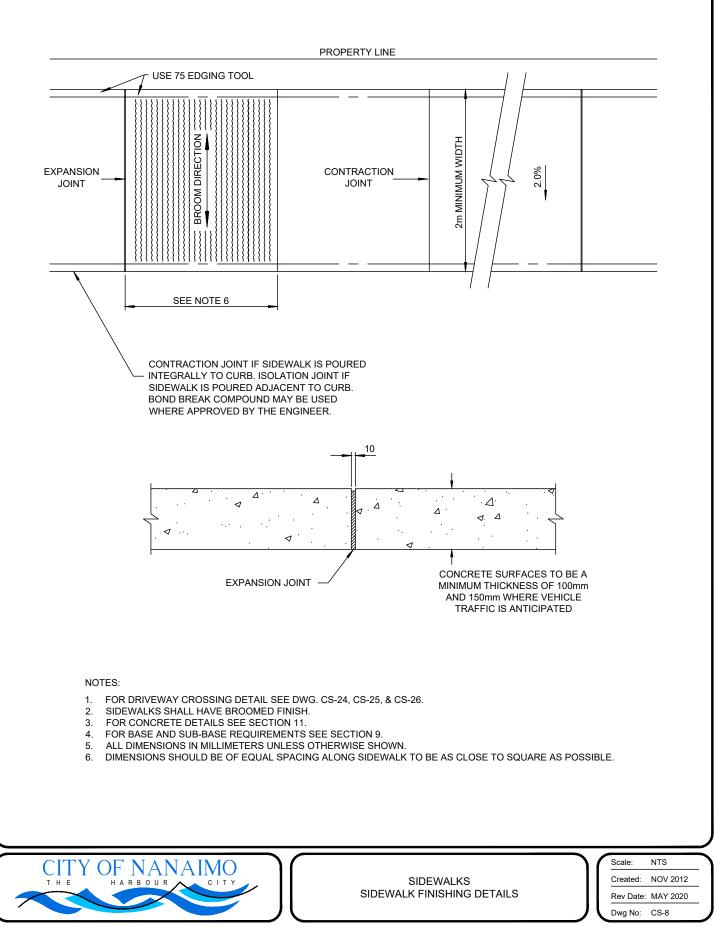


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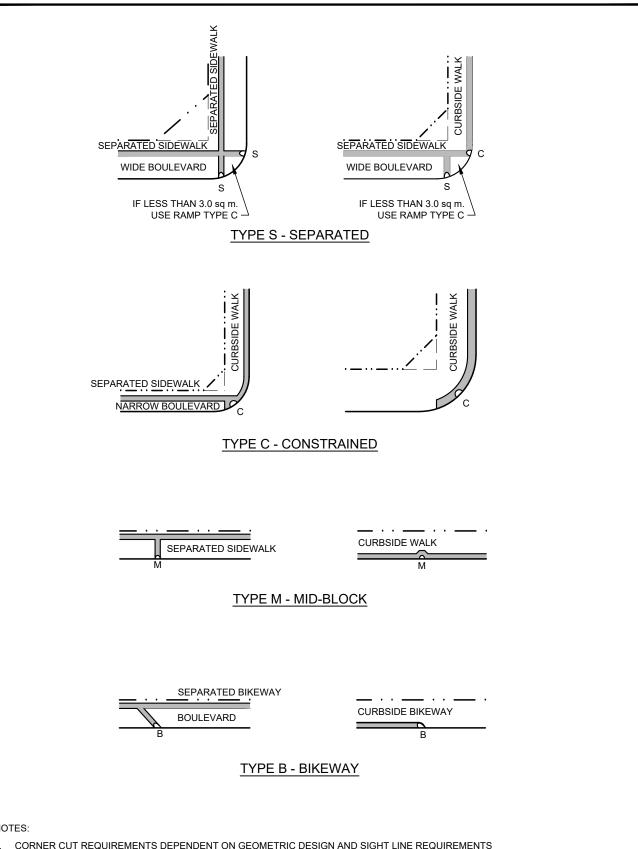
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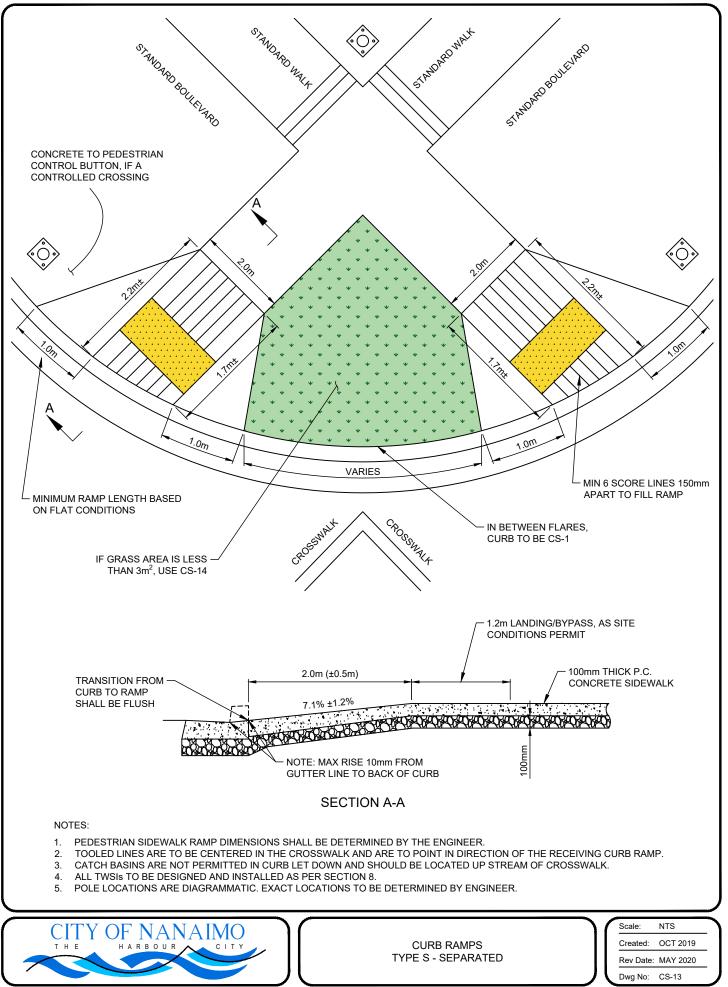


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Engineering Standards & Specifications
May 2020 Edition

<u></u>	D-BIRLWAT	
NOTES: 1. CORNER CUT REQUIREMENTS DEPENDENT ON GEOMET	TRIC DESIGN AND SIGHT LINE REQUIREMENT	3
CITY OF NANAIMO	CURB RAMPS ORIENTATIONS	Scale:NTSCreated:OCT 2019Rev Date:MAY 2020Dwg No:CS-12
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CURB RAMPS TYPE C - CONSTRAINED (PREFERRED)

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	Created:	OCT 2019	
	Rev Date:	MAY 2020	
	Dwg No:	CS-14	

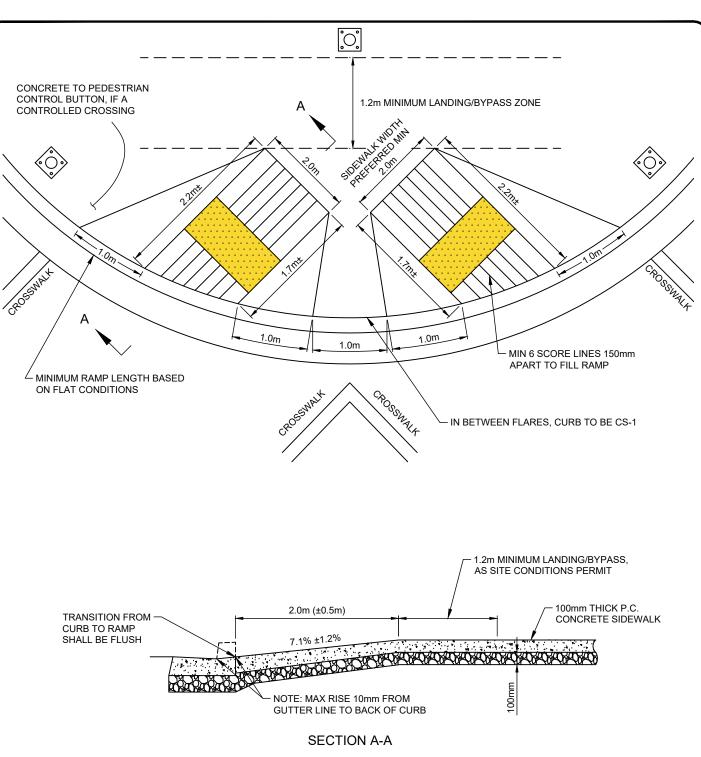
- 5. POLE LOCATIONS ARE DIAGRAMMATIC. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.
- 4.

NANAIMO

- ALL TWSIS TO BE DESIGNED AND INSTALLED AS PER SECTION 8.
- 3. CATCH BASINS ARE NOT PERMITTED IN CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF CROSSWALK.
- TOOLED LINES ARE TO BE CENTERED IN THE CROSSWALK AND ARE TO POINT IN DIRECTION OF THE RECEIVING CURB RAMP. 2.
- 1.
- PEDESTRIAN SIDEWALK RAMP DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER.

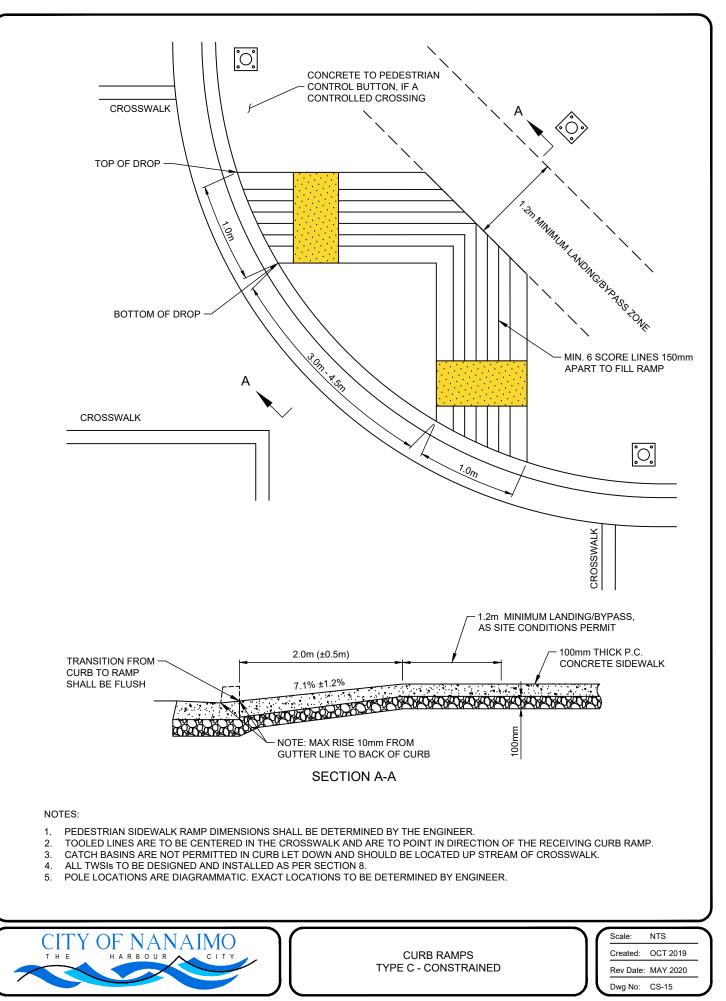


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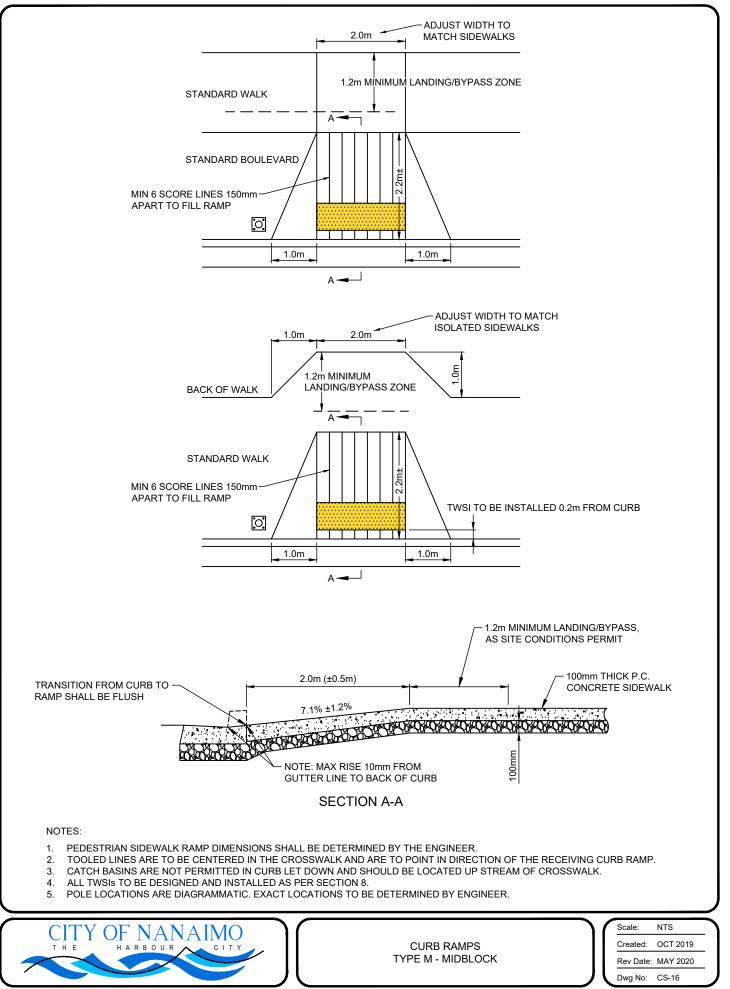
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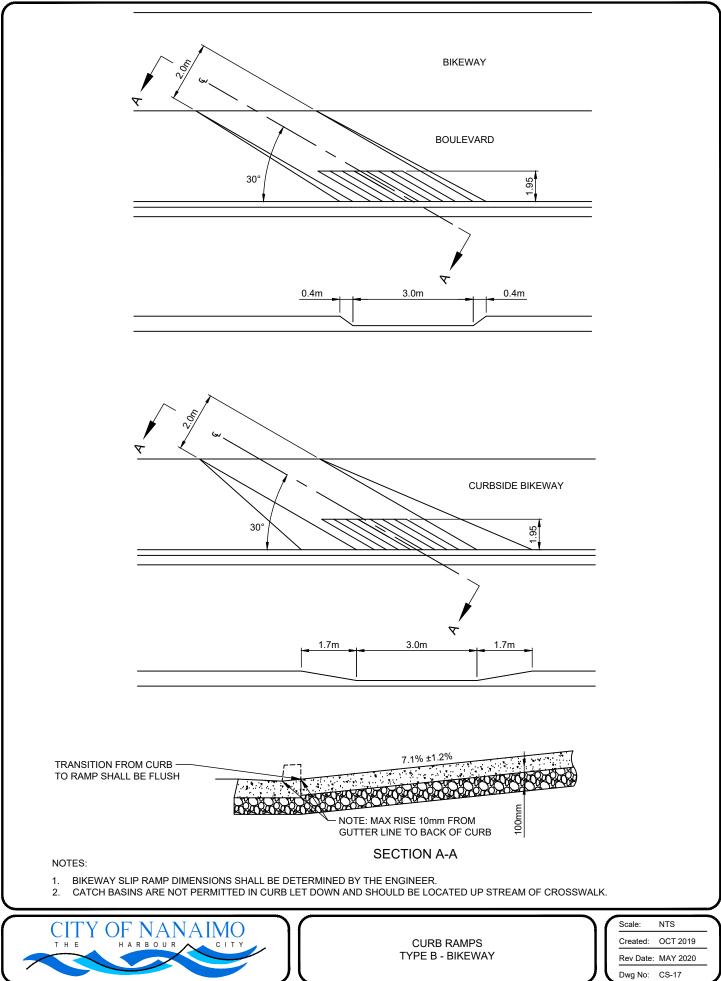
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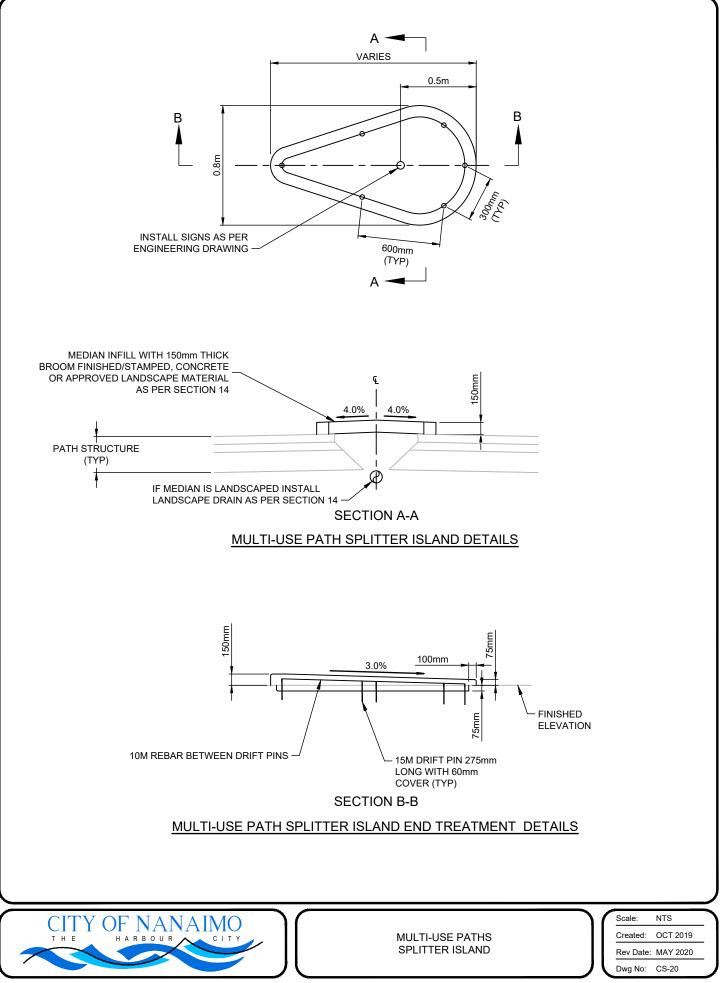


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2:1 SLOPE FOR GRAVEL 0.5m TO 1.0m SHOULDER SHOULDER AND SWALE 3.0m MIN TO 4.0m MAX 2% SLOPE 2:1 FILL SLOPE 4 4 A 2% CUT SLOPE . TO DAYLIGHT Í SUBGRADE TO BE AS PER PAVED SURFACE TO BE A MINIMUM OF 75mm SECTION 9 (MIN 95% MPD) ASPHALT PAVEMENT IF VEHICLE TRAFFIC IS ANTICIPATED OR MINIMUM 60mm ASPHALT 150mm ROAD BASE AS PER PAVEMENT FOR PEDESTRIAN TRAFFIC ONLY SECTION 9 (MIN 95% MPD)

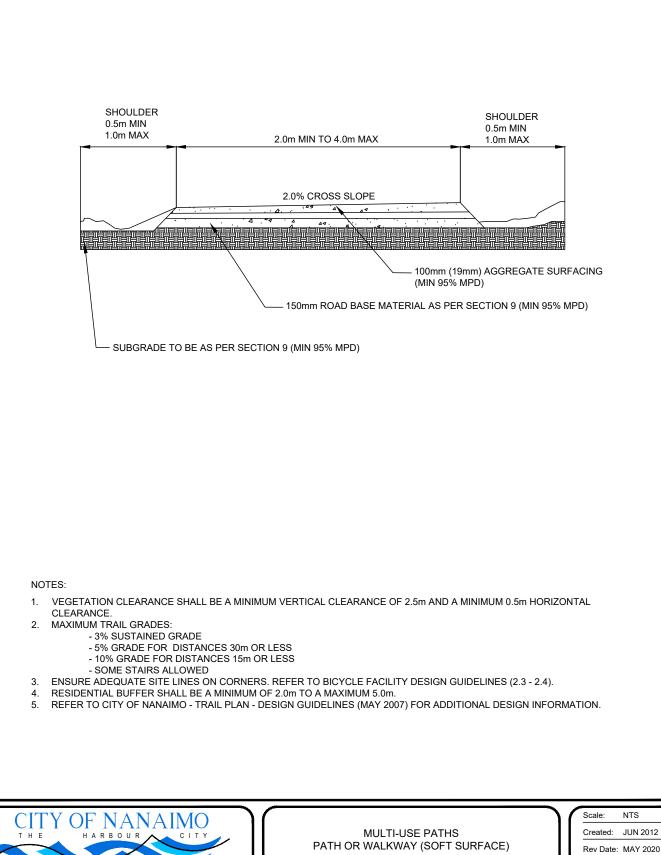
NOTES:

- 1. VEGETATION CLEARANCE SHALL BE A MINIMUM VERTICAL CLEARANCE OF 2.5m AND A MINIMUM 0.5m HORIZONTAL CLEARANCE.
- 2. MAXIMUM TRAIL GRADES:
 - 3% SUSTAINED GRADE
 - 5% GRADE FOR DISTANCES 30m OR LESS
 - 10% GRADE FOR DISTANCES 15m OR LESS
- 3. MINIMIZE HORIZONTAL CURVES AND ENSURE ADEQUATE SITE LINES ON CORNERS. REFER TO BICYCLE FACILITY DESIGN GUIDELINES (2.3 2.4).
- 4. RESIDENTIAL BUFFER SHALL BE A MINIMUM OF 2.0m TO A MAXIMUM 5.0m.
- 5. REFER TO CITY OF NANAIMO TRAIL PLAN DESIGN GUIDELINES (MAY 2007) FOR ADDITIONAL DESIGN INFORMATION.
- 6. ALL TWSIS TO BE DESIGNED AND INSTALLED AS PER SECTION 8.



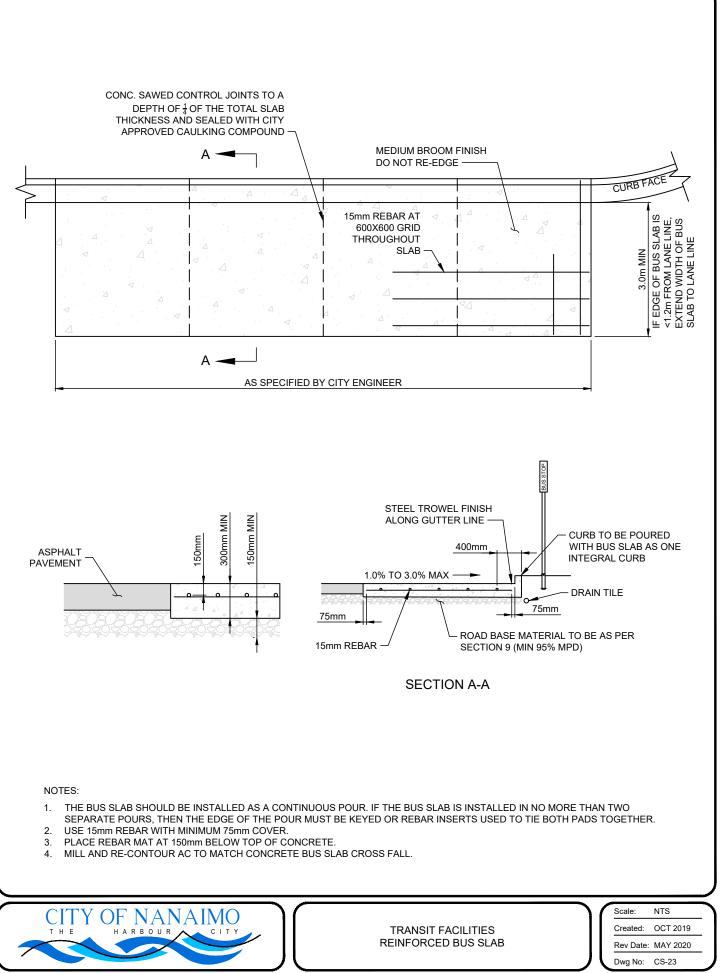
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	Rev Date:	MAY 2020	
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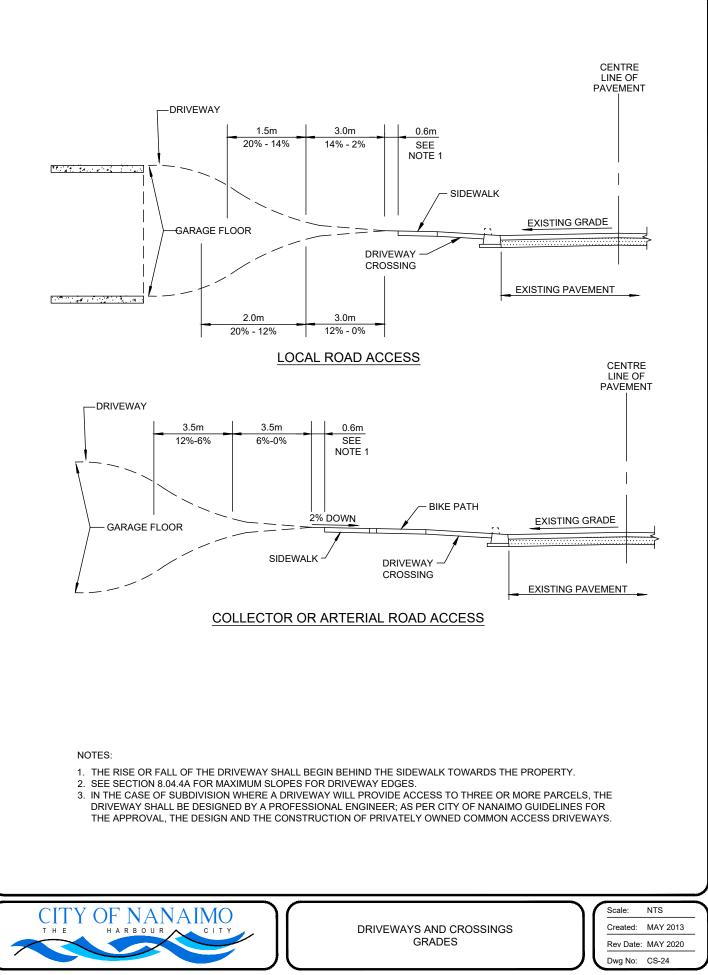


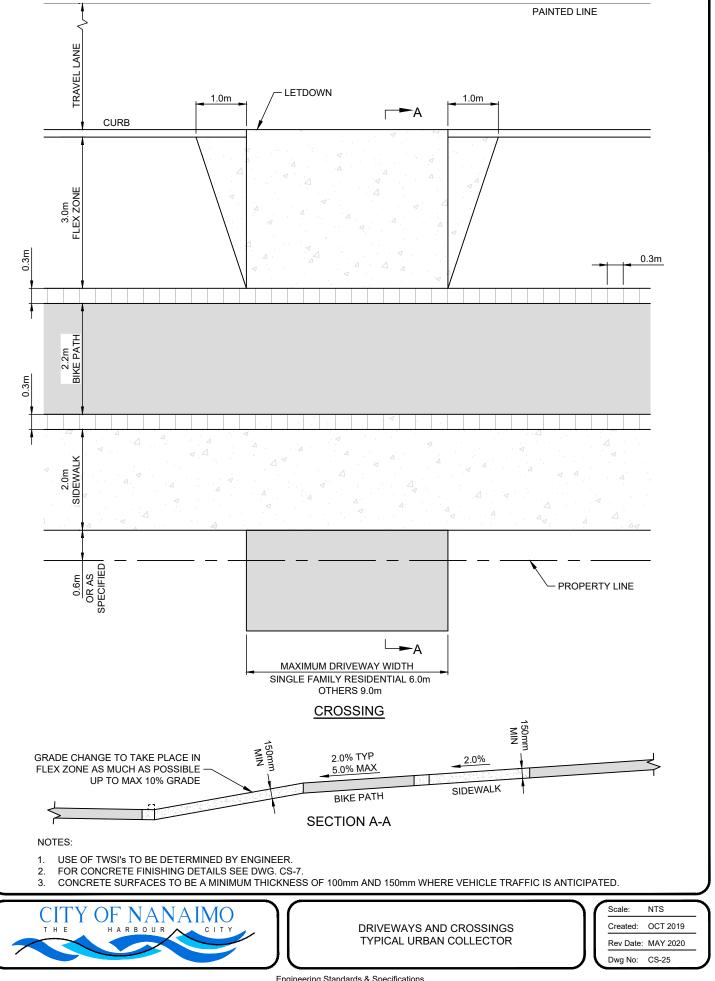
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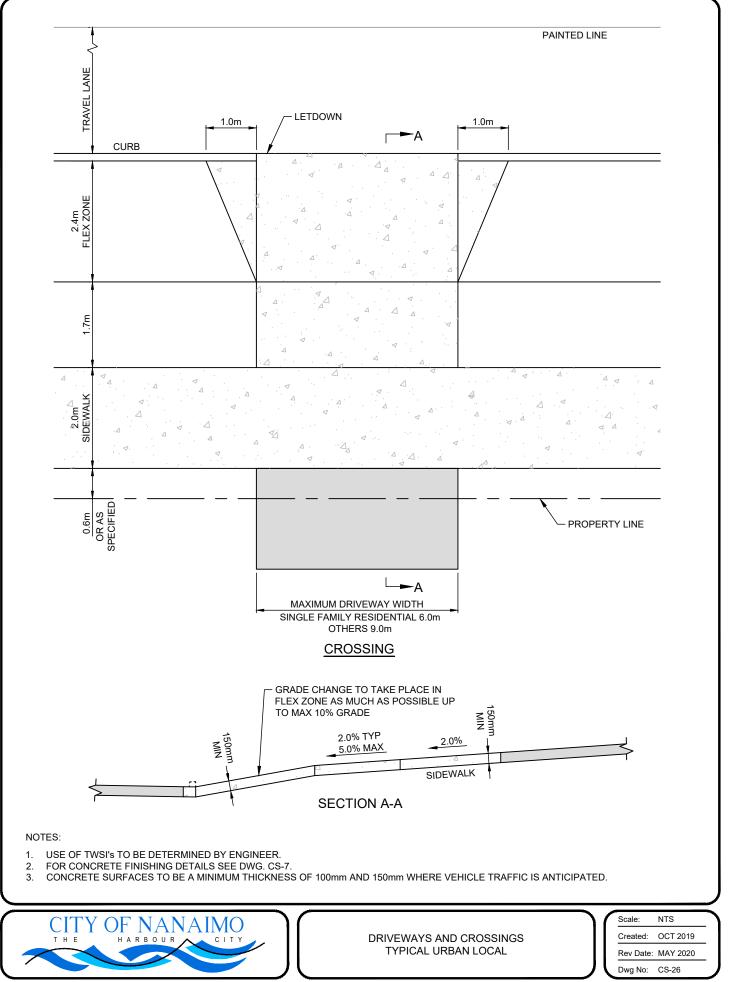
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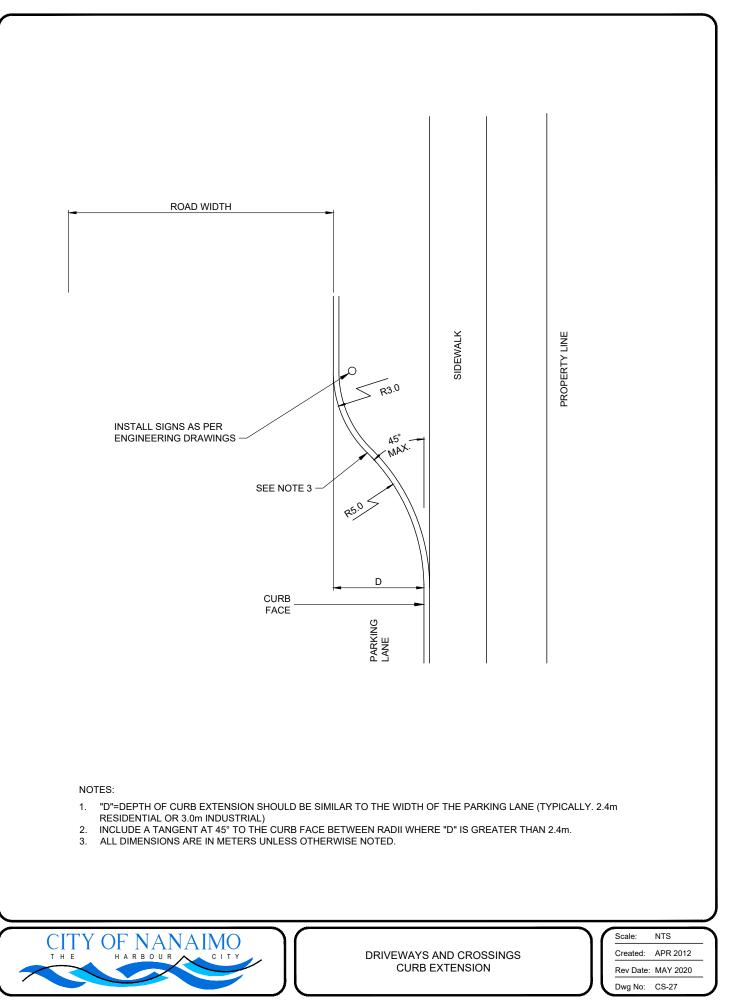
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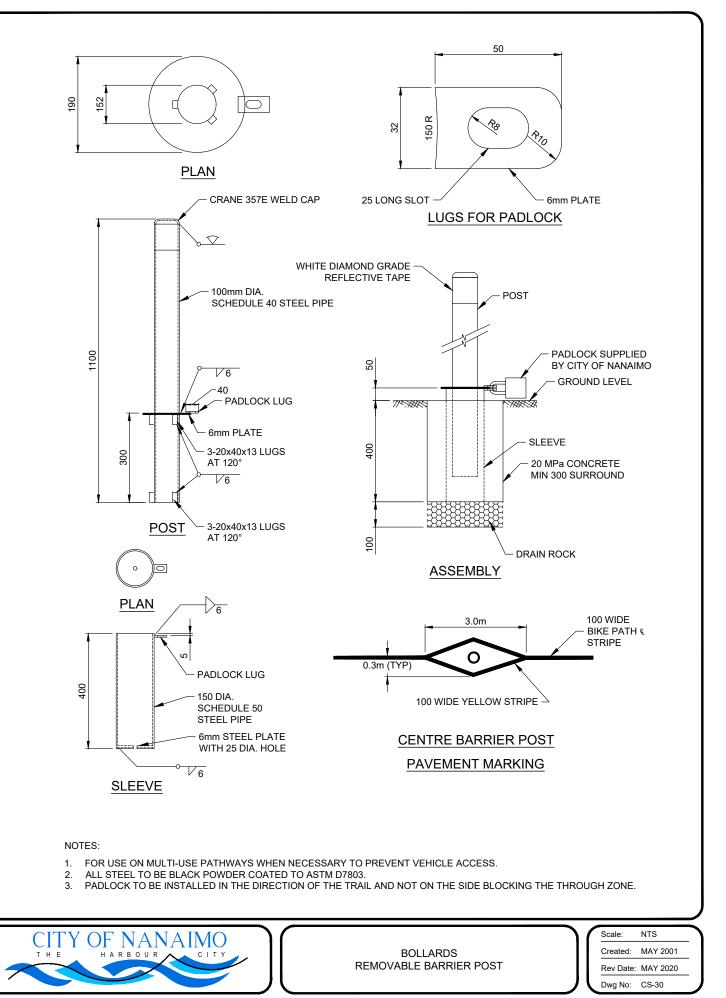
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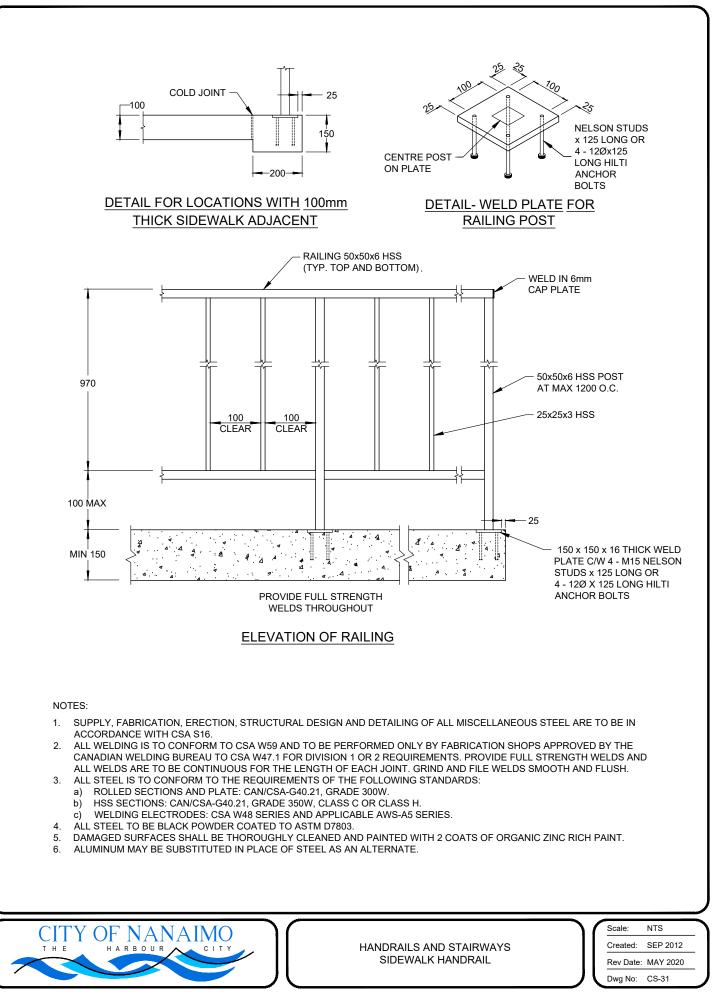
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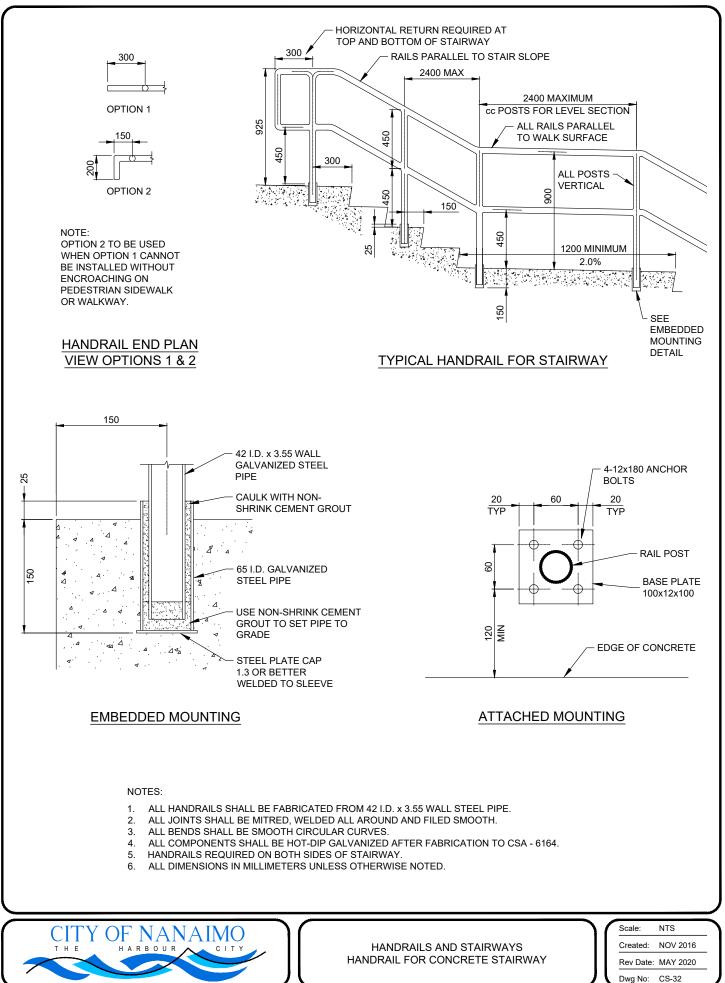
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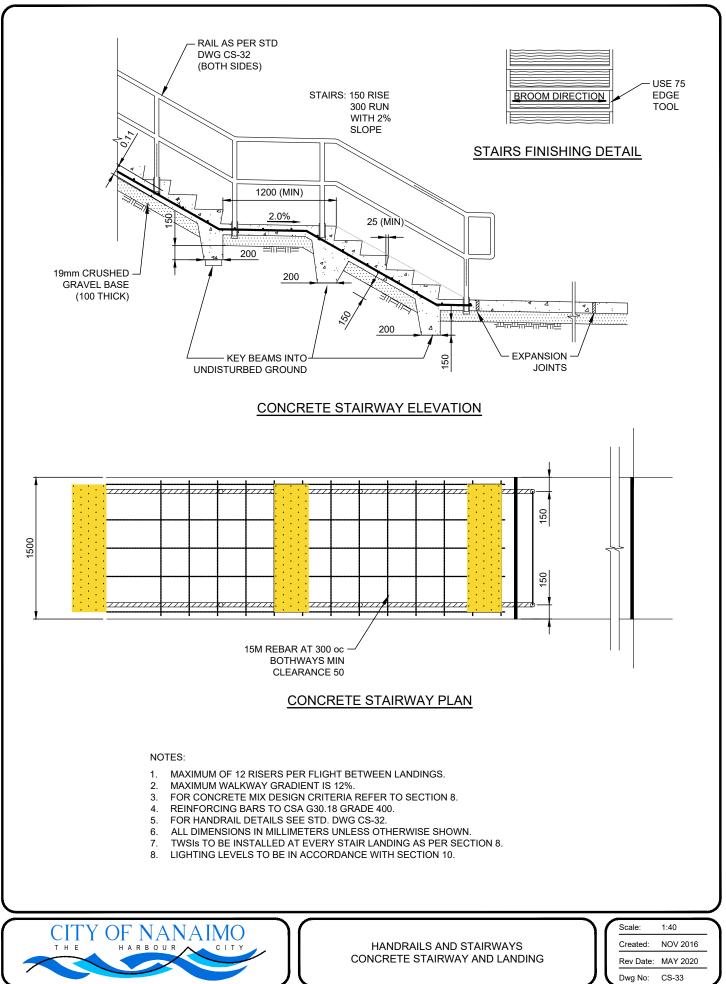
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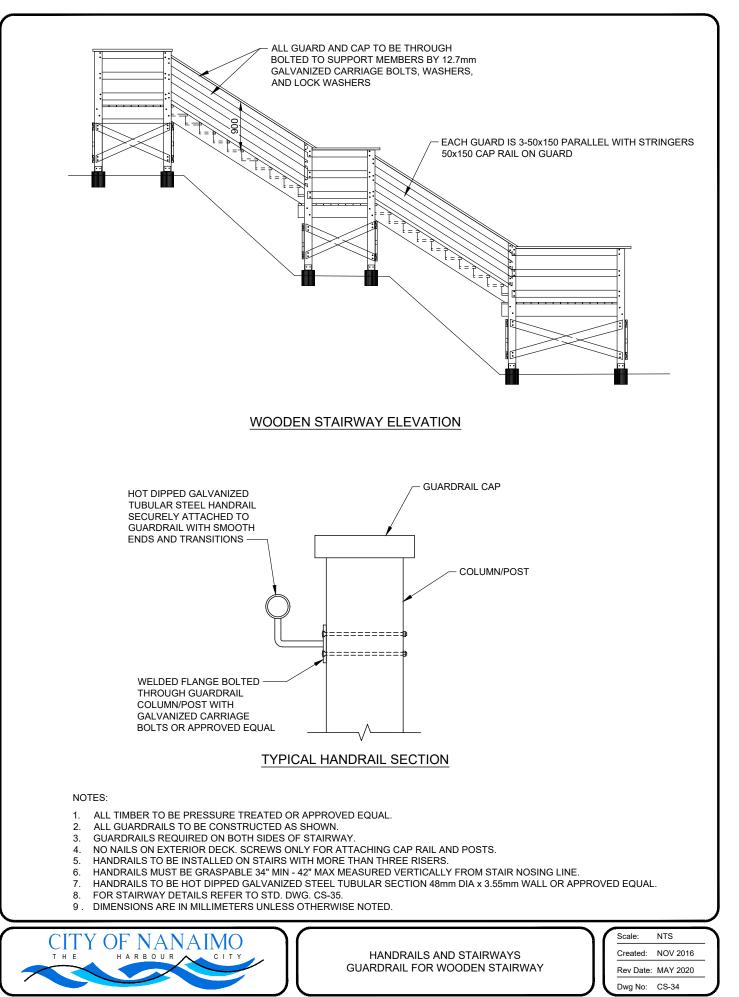
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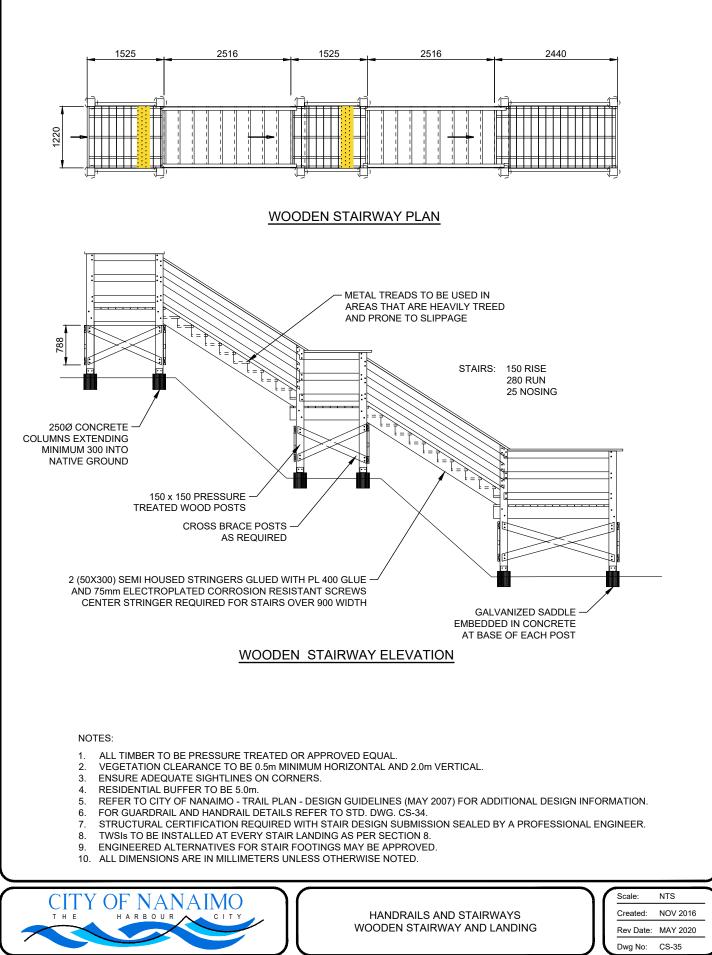


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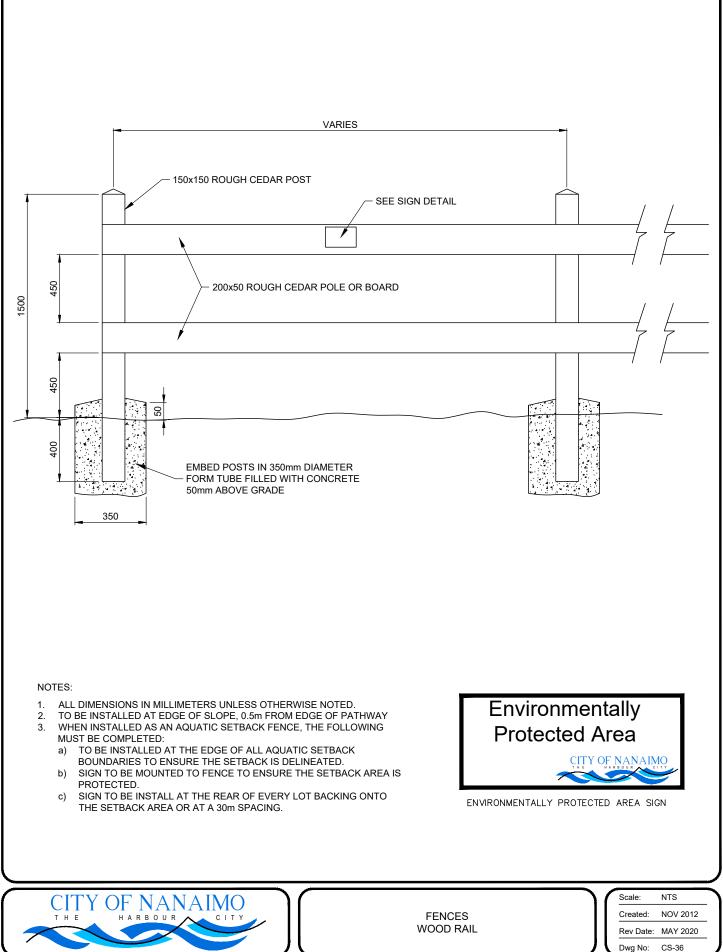
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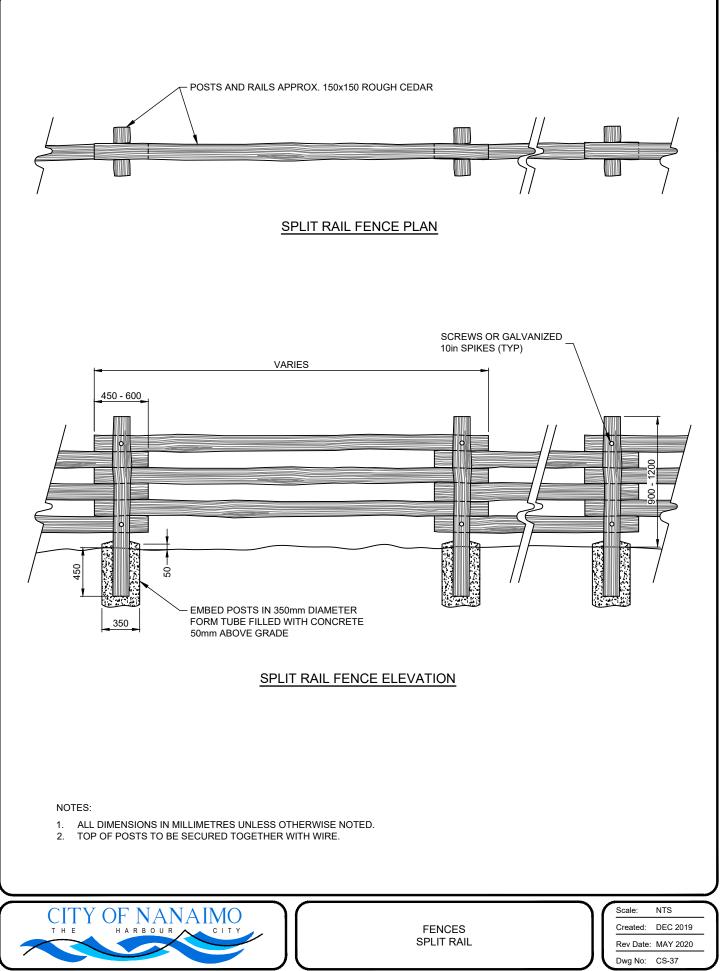
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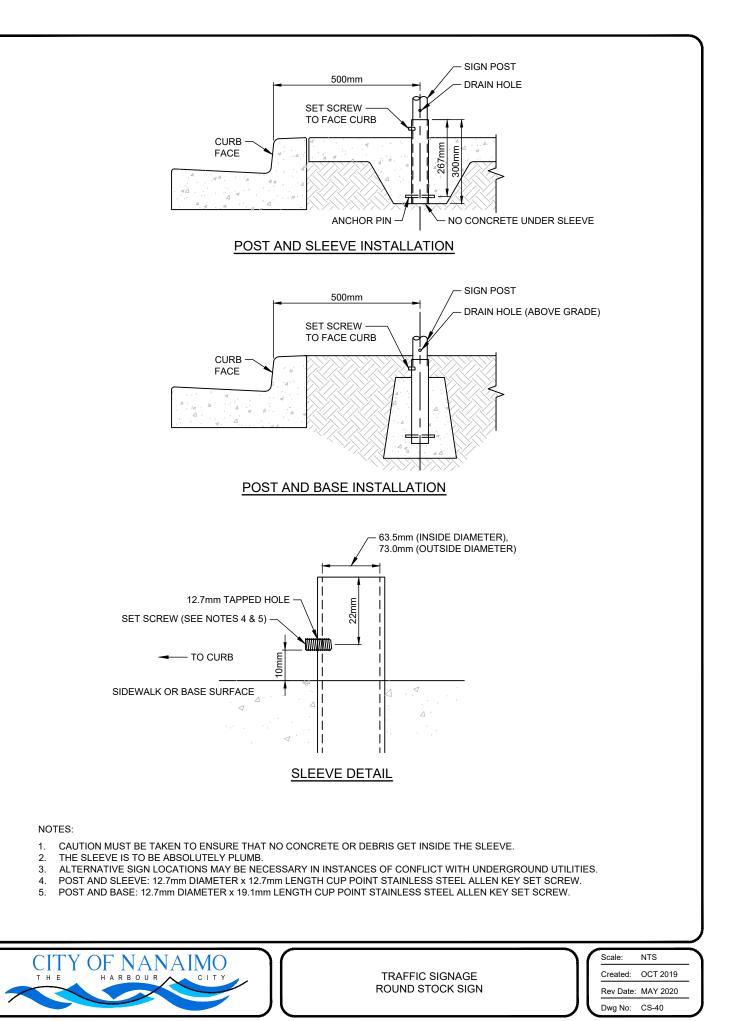


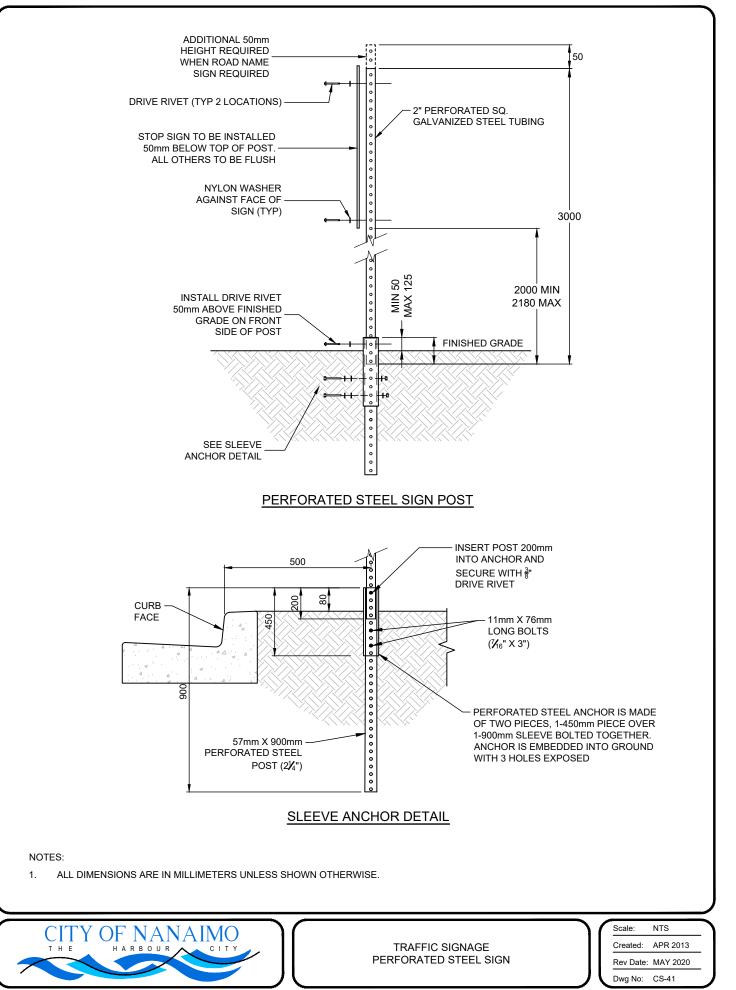
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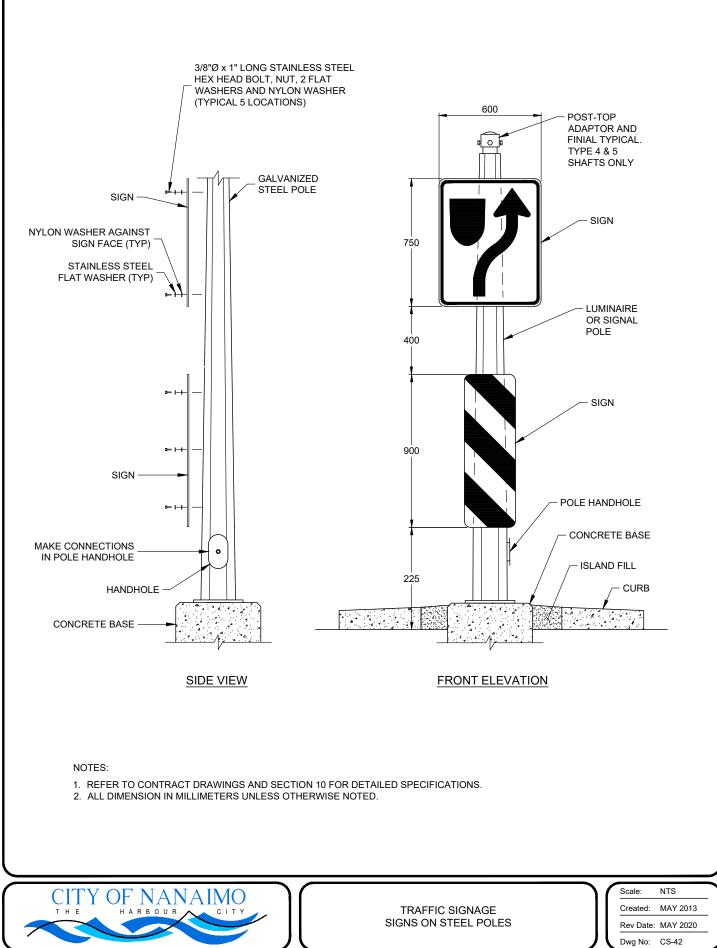


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