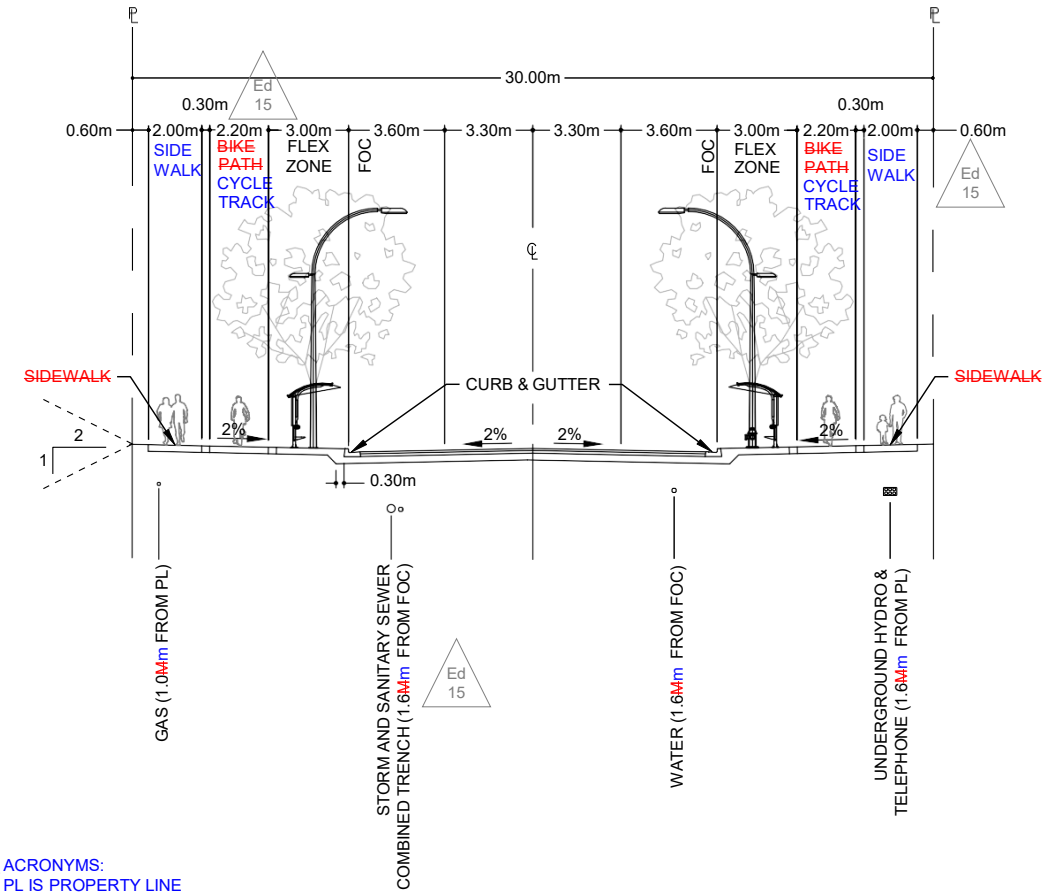

Ed 15

ACRONYMS:
PL IS PROPERTY LINE
FOC IS FACE OF CURB
CL IS CENTER LINE

NOTES:

1. PAVED SURFACE - 125mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
2. BASE - 200mm AS PER SECTION 9.0.
3. SUB-BASE - 250mm AS PER SECTION 9.0.
4. BARRIER CURB AND GUTTER ~~TO BE USED IN ACCORDANCE WITH~~ AS PER STANDARD DRAWING CS-1.
5. CENTER MEDIANS ~~TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH~~ AS PER 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.
8. BANDING/BUFFER ON EITHER SIDE OF THE ~~BIKE PATH SHALL BE~~ CYCLE TRACK IS 0.3m STAMPED CONCRETE ~~WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS~~ AS PER SECTION 13.0. WHERE VERTICAL SEPARATION IS PREFERRED, A CUSTOM MOUNTABLE MONOLITHIC CURB MAY BE ~~UTILIZED~~ PROPOSED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
9. STREET ~~ROAD~~ HAS CONTROLLED ACCESS. DRIVEWAY ACCESS UNDER APPROVAL FROM CITY ENGINEER.
10. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.
11. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 10.0.
12. LANDSCAPING ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 14.0.

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
MOBILITY ARTERIAL

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~MAY 2020~~
Dwg No:	MA-XS1

Ed 15

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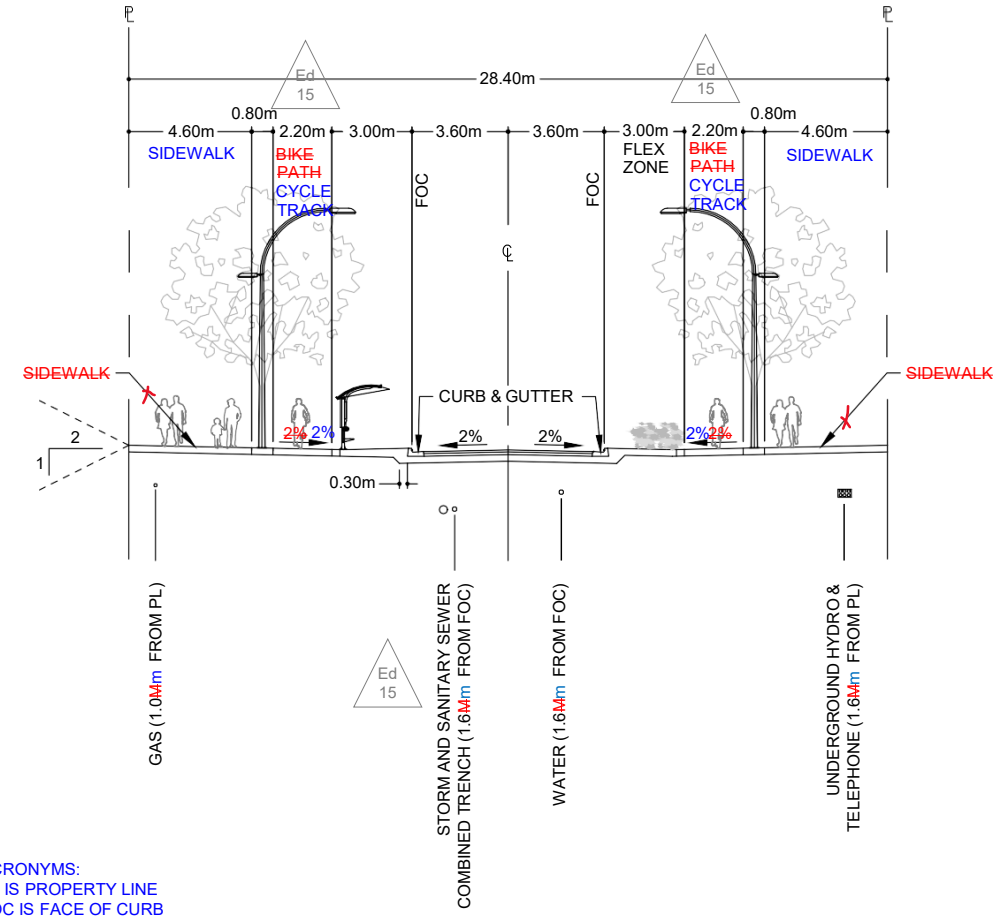

Ed 15

ACRONYMS:
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FOC IS FACE OF CURB
CL IS CENTER LINE

Ed 15

NOTES:

1. PAVED SURFACE - 100mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
2. BASE - 150mm AS PER SECTION 9.0.
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5. CENTER MEDIANS ~~TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH~~ AS PER 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, AND/OR WASTE RECEPTACLES.
8. SIDEWALK TO INTEGRATE WITH BUILDING FRONTAGE.
9. BANDING/BUFFER ON EITHER SIDE OF THE ~~BIKE PATH SHALL BE~~ CYCLE TRACK IS 0.3m STAMPED CONCRETE ~~WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS~~ AS PER SECTION 13.0. WHERE VERTICAL SEPARATION IS PREFERRED, A CUSTOM MOUNTABLE MONOLITHIC CURB MAY BE ~~UTILIZED~~ PROPOSED. 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 AS PER SECTION 13.0.
11. ~~ROAD~~ STREET HAS CONTROLLED ACCESS. DRIVEWAY ACCESS UNDER APPROVAL FROM CITY ENGINEER.
12. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.
13. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 10.0.
14. STREET TREES TO BE DESIGNED USING SOIL VOLUMES OR SILVA CELLS AS PER SECTION 14.0.

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
MOBILITY COLLECTOR (BOULEVARDS)

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~MAY~~ 2020
Dwg No:	MC-XS1

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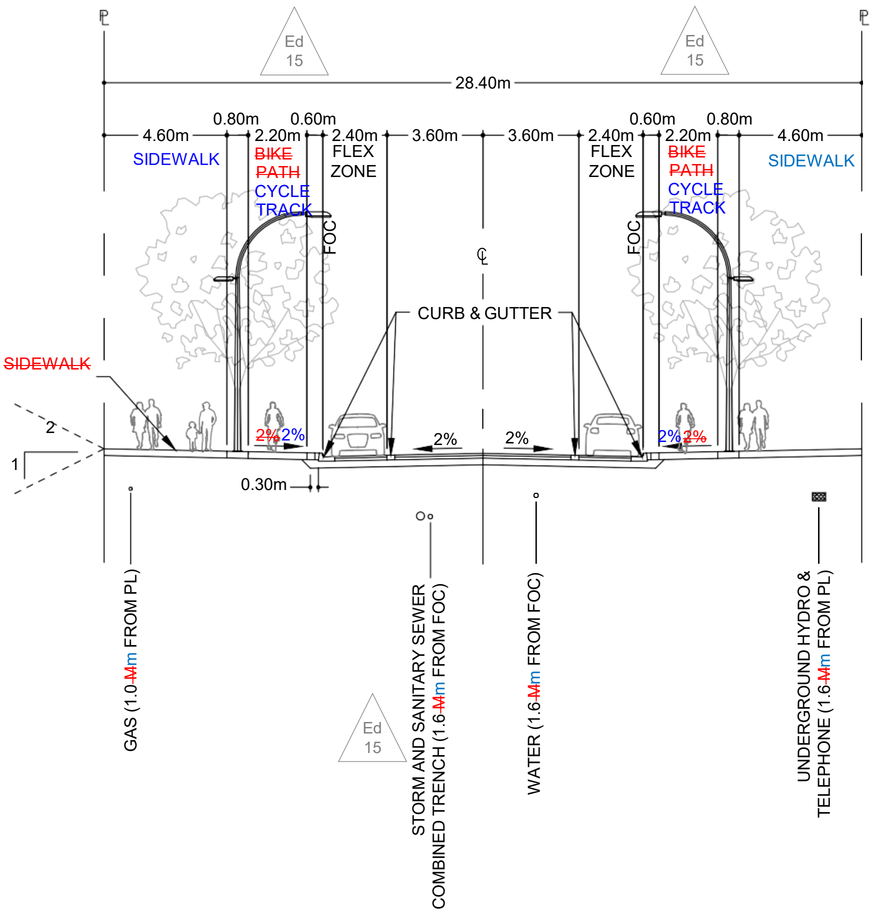

Ed 15

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CL IS CENTER LINE

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1. PAVED SURFACE - 100mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
2. BASE - 150mm AS PER SECTION 9.0.
3. SUB-BASE - 250mm AS PER SECTION 9.0.
4. BARRIER CURB AND GUTTER ~~TO BE USED IN ACCORDANCE WITH~~ AS PER STANDARD DRAWING CS-1. FLAT AND VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.
5. CENTER MEDIANS ~~TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH~~ AS PER STANDARD DRAWING C-7.
6. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE CROSSFALL. MOUNTABLE 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~~ CYCLE TRACK IS 0.3m STAMPED CONCRETE ~~WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS~~ AS PER SECTION 13.0. WHERE VERTICAL SEPARATION IS PREFERRED, A CUSTOM MOUNTABLE MONOLITHIC CURB MAY BE ~~UTILIZED~~ PROPOSED. 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 AS PER SECTION 13.0.
12. STREET ~~ROAD~~ HAS CONTROLLED ACCESS. DRIVEWAY ACCESS UNDER APPROVAL FROM CITY ENGINEER.
13. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.
14. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 10.0.
15. STREET TREES TO BE DESIGNED USING SOIL VOLUMES OR SILVA CELLS AS PER SECTION 14.0.

Ed 15 Ed 15 Ed 15 Ed 15

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
MOBILITY COLLECTOR (PARKING)

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~MAY 2020~~
Dwg No:	MC-XS2

Ed 15

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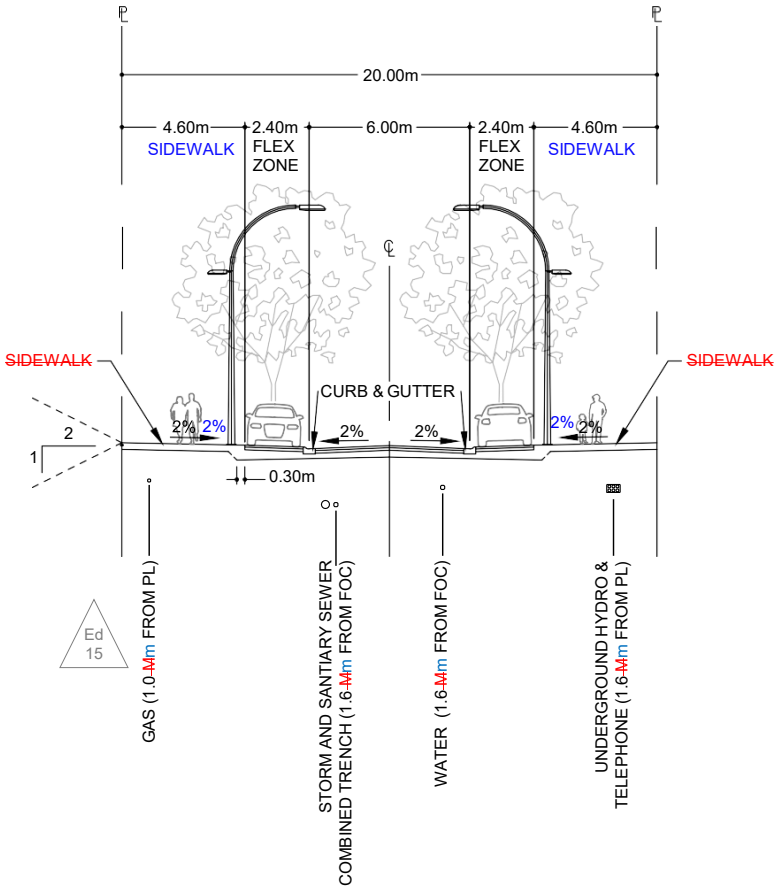


Ed 15

ACRONYMS:
PL IS PROPERTY LINE
FOC IS FACE OF CURB
CL IS CENTER LINE

NOTES:

Ed 15
1. PAVED SURFACE - 75mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
2. BASE - 100mm AS PER SECTION 9.0.
3. SUB-BASE - 250mm AS PER SECTION 9.0.

Ed 15
4. MOUNTABLE ROLLOVER CURB AND GUTTER ~~TO BE USED IN ACCORDANCE WITH~~ AS PER STANDARD DRAWING CS-3. FLAT OR VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.

Ed 15
5. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE CROSSFALL. MOUNTABLE ROLLOVER OR VALLEY CURB TO BE USED AS GRADE BREAK FOR DRAINAGE PURPOSES.

Ed 15
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.

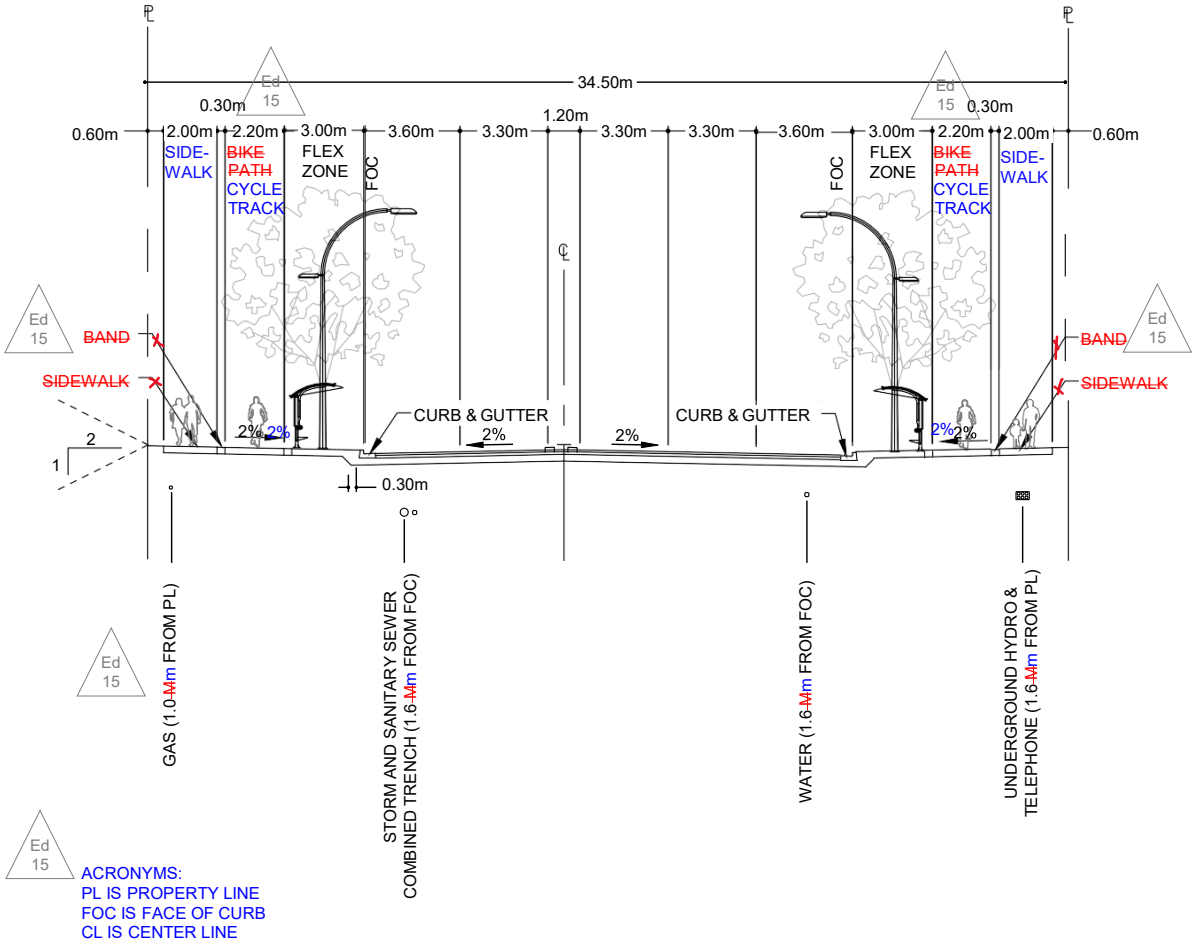
Ed 15
8. SIDEWALK TO INTEGRATE WITH BUILDING FRONTAGE.
9. BANDING, BUFFERS, POCKET PARKING DOOR ZONES, OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE AS PER SECTION 13.0.
10. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.
11. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 10.0.
12. STREET TREES TO BE DESIGNED USING SOIL VOLUMES OR SILVA CELLS AS PER SECTION 14.0.

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
MOBILITY LOCAL

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~MAY 2020~~
Dwg No:	ML-XS1

Ed 15



ACRONYMS:
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FOC IS FACE OF CURB
CL IS CENTER LINE

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1. PAVED SURFACE - 125mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
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9. STREET ~~ROAD~~ HAS CONTROLLED ACCESS. DRIVEWAY ACCESS UNDER APPROVAL FROM CITY ENGINEER.
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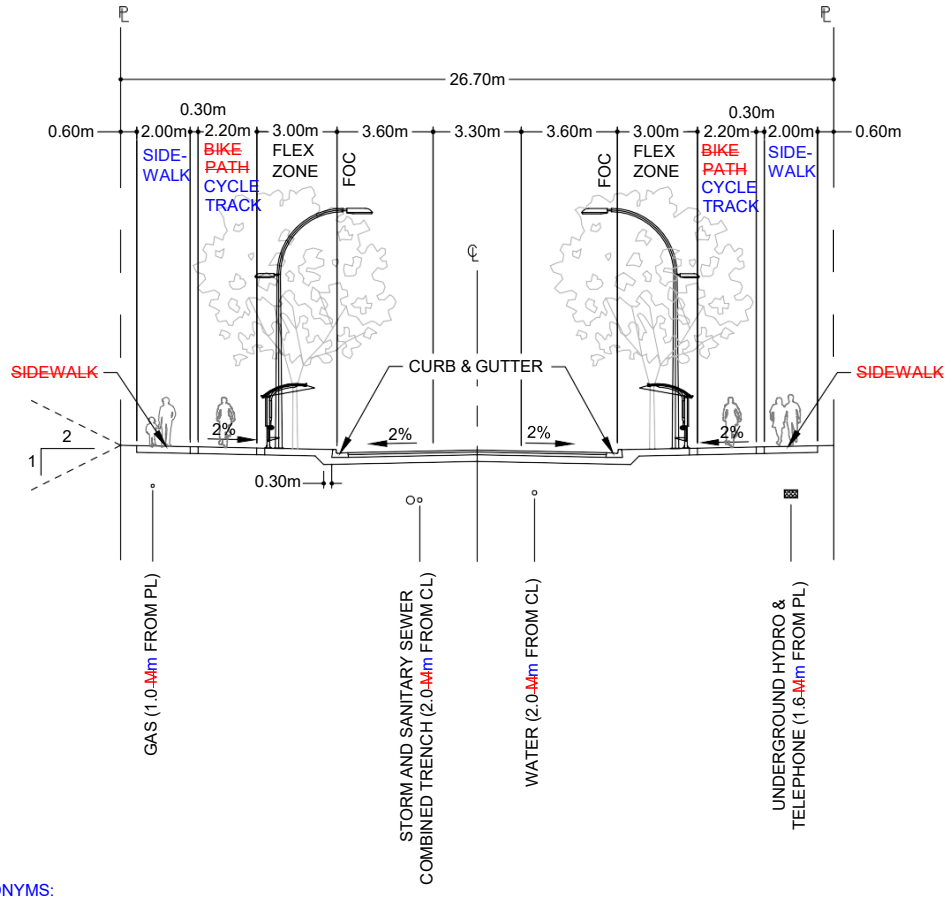
12. LANDSCAPING ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 14.0.

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
URBAN ARTERIAL

Scale: NTS
Created: AUG 2019
Rev Date: ~~MAY 2020~~
Dwg No: UA-XS1



Ed 15

ACRONYMS:
PL IS PROPERTY LINE
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CL IS CENTER LINE

Ed 15

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1. PAVED SURFACE - 100mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
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Ed 15

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Ed 15

9. POCKET PARKING DOOR ZONES, OR OTHER HARD SURFACES TO USE COLOURED AND/OR STAMPED CONCRETE AS PER SECTION 13.0.

Ed 15

10. STREET ~~ROAD~~ HAS CONTROLLED ACCESS. DRIVEWAY ACCESS UNDER APPROVAL FROM CITY ENGINEER.

Ed 15

11. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.
12. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 10.0.
13. LANDSCAPING ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 14.0.

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7.3.2020

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
URBAN COLLECTOR (TURN LANE)

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~MAY 2020~~
Dwg No:	UC-XS1

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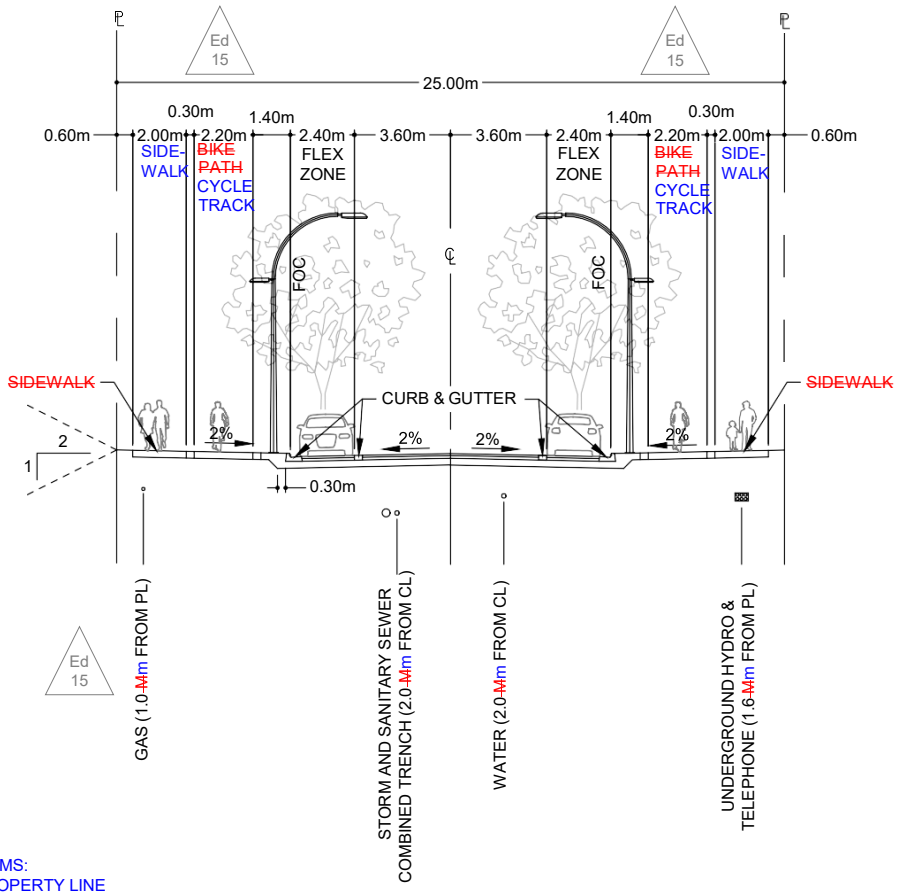

Ed 15 ACRONYMS:
PL IS PROPERTY LINE
FOC IS FACE OF CURB
CL IS CENTER LINE

NOTES:

Ed 15
1. PAVED SURFACE - 100mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
2. BASE - 150mm AS PER SECTION 9.0.
3. SUB-BASE - 250mm AS PER SECTION 9.0.

Ed 15
4. BARRIER CURB AND GUTTER ~~TO BE USED IN ACCORDANCE WITH~~ AS PER STANDARD DRAWING CS-1. FLAT AND VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.
5. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE CROSSFALL. MOUNTABLE ROLLOVER OR VALLEY CURB TO BE USED AS GRADE BREAK FOR DRAINAGE PURPOSES.

Ed 15
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Ed 15
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Ed 15
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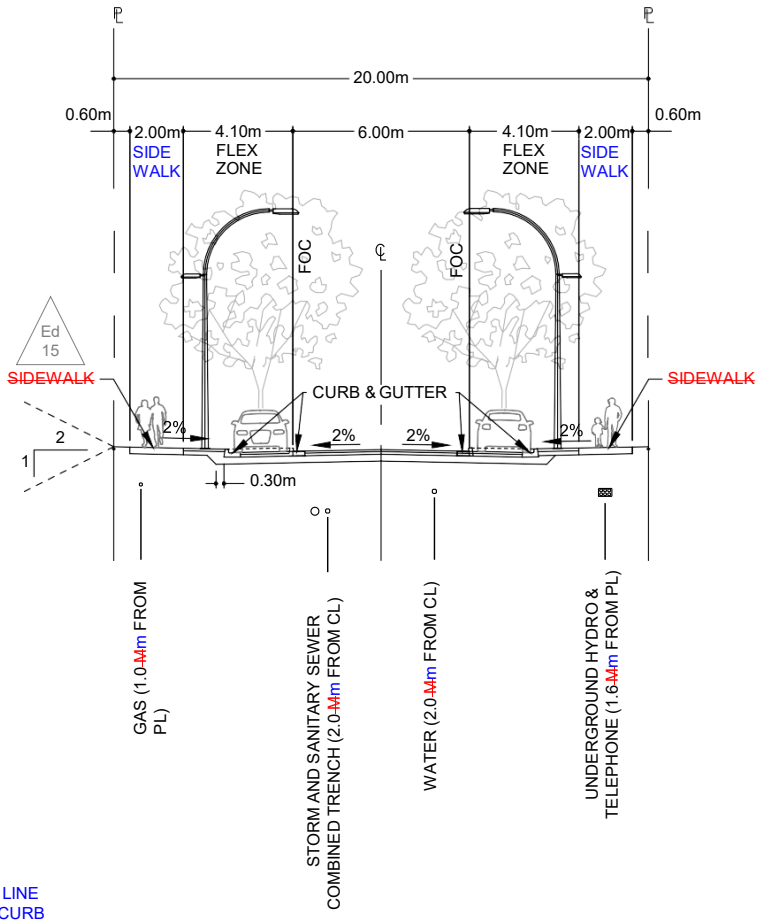
CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
URBAN COLLECTOR

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~MAY 2020~~
Dwg No:	UC-XS2

Ed 15



Ed 15

ACRONYMS:
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NOTES:

1. PAVED SURFACE - 75mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
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11. LANDSCAPING ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 14.0.

Ed 15 (NOTES 1)
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CITY OF NANAIMO
THE HARBOUR CITY

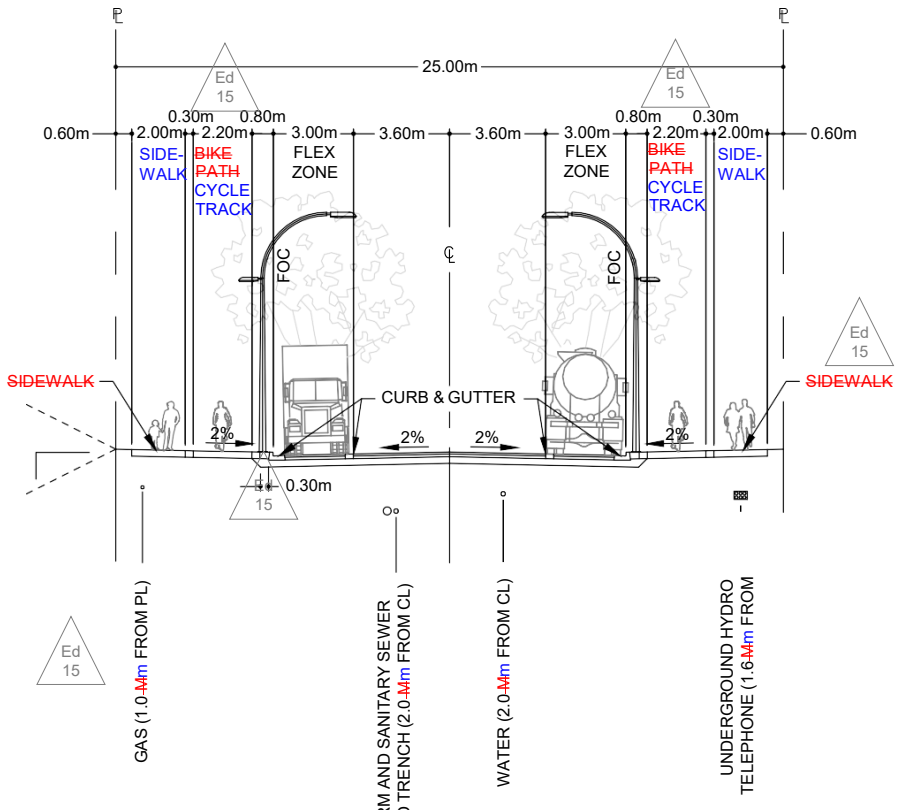
STREET TYPES & CROSS SECTIONS
URBAN LOCAL

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~MAY 2020~~
Dwg No:	UL-XS1

Ed 15

Engineering Standards & Specifications
~~May 2020~~ Edition 15

Ed 15



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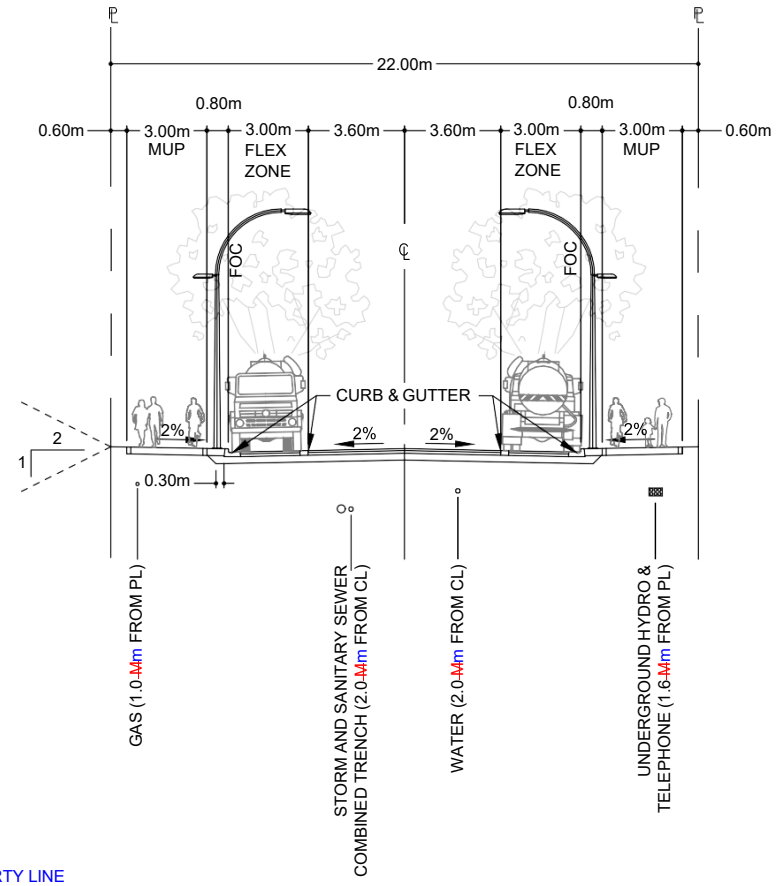
13. LANDSCAPING ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 14.0.

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
INDUSTRIAL COLLECTOR

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~JULY~~ 2022
Dwg No:	IC-XS1

Engineering Standards & Specifications
Edition ~~No. 14~~ 15



Ed 15

ACRONYMS:
PL IS PROPERTY LINE
FOC IS FACE OF CURB
CL IS CENTER LINE
MUP IS MULTI-USE PATH

NOTES:

1. PAVED SURFACE - 125mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
2. BASE - 200mm AS PER SECTION 9.0.
3. SUB-BASE - 250mm AS PER SECTION 9.0.
4. BARRIER CURB AND GUTTER ~~TO BE USED IN ACCORDANCE WITH~~ AS PER STANDARD DRAWING CS-1. MOUNTABLE CURB AND GUTTER AS PER STANDARD DRAWING CS-3. FLAT AND VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.
5. POCKET PARKING DELINEATION CURB TO BE OPTIONAL UNLESS PARKING HAS BEEN DESIGNED WITH A REVERSE CROSSFALL. MOUNTABLE 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 AS PER SECTION 13.0.
9. CROSS-SECTIONS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.
10. STREETLIGHTS ARE DIAGRAPHIC. LIGHTING LEVELS ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 10.0.
11. LANDSCAPING ~~TO BE IN ACCORDANCE WITH~~ AS PER WITH SECTION 14.0.

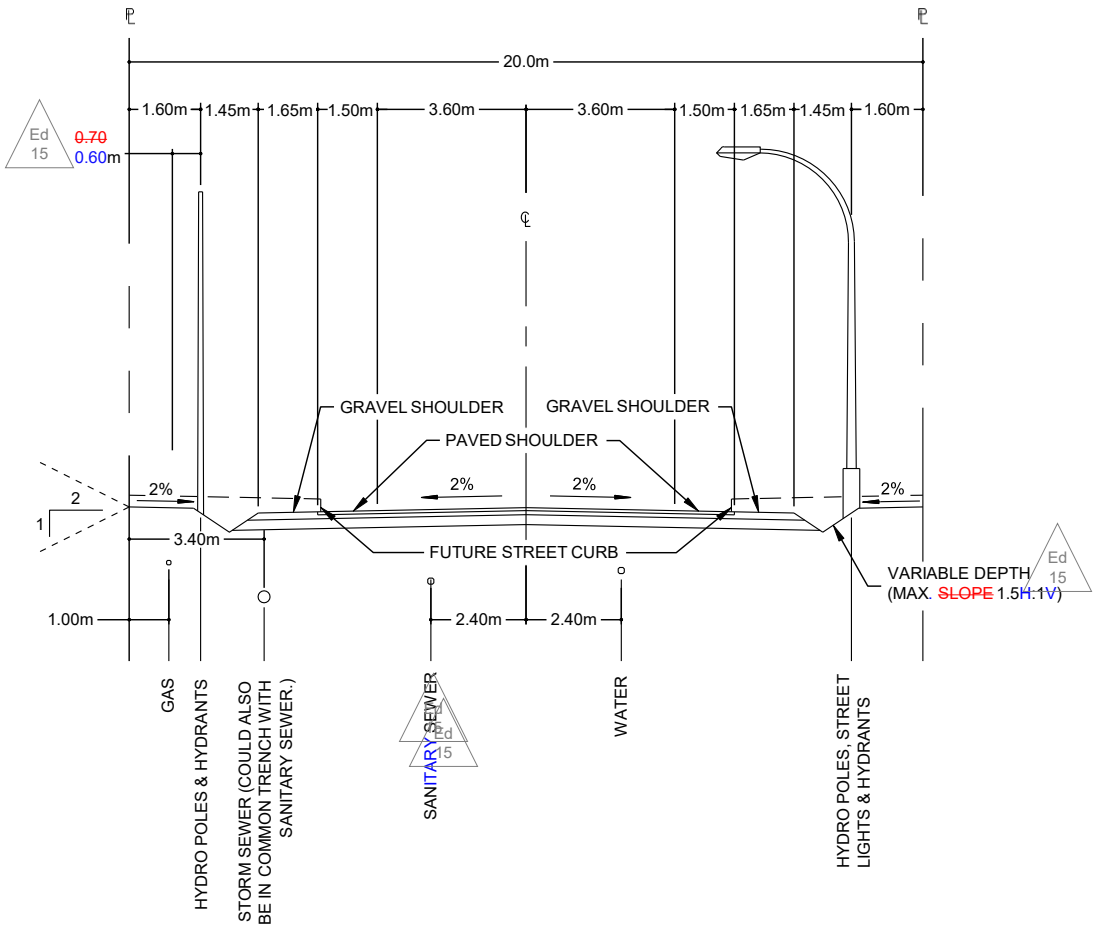
Ed 15 (NOTES)

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
INDUSTRIAL LOCAL

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~JULY 2022~~
Dwg No:	IL-XS1

Ed 15



Ed 15 ACRONYMS:
PL IS PROPERTY LINE
CL IS CENTER LINE

Ed 15 NOTES:

1. PAVED SURFACE - 75mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
2. BASE - 100mm AS PER SECTION 9.0.
3. SUB-BASE - 250mm AS PER SECTION 9.0.
4. SHOULDER - CRUSHED GRAVEL AS PER SECTION 9.0.
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~~ AS PER SECTION 10.0.
7. ACTIVE TRANSPORTATION REQUIREMENTS TO BE DETERMINED BY THE CITY ~~TRANSPORTATION~~ ENGINEER.

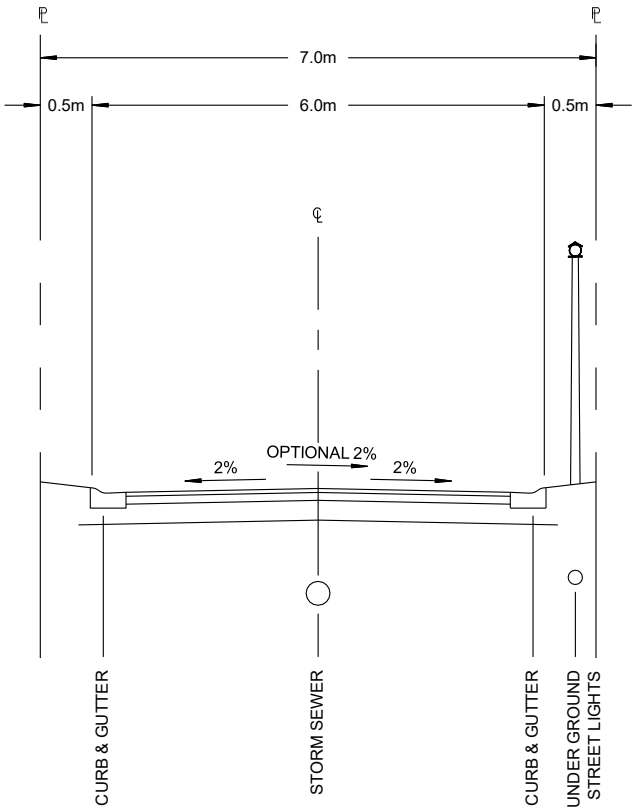
Ed 15 Ed 15 Ed 15

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
RURAL LOCAL

Scale:	NTS
Created:	MAY 2013
Rev Date:	~~MAY 2020~~
Dwg No:	RL-XS1

Ed 15



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ACRONYMS:
PL IS PROPERTY LINE
CL IS CENTER LINE

Ed 15

NOTES:

1. PAVED SURFACE - 75mm ASPHALT (COMPACTED THICKNESS) AS PER SECTION 9.0 AND SECTION 12.0.
2. BASE - 100mm AS PER SECTION 9.0.
3. SUB-BASE - 250mm AS PER SECTION 9.0.
4. BARRIER CURB AND GUTTER ~~TO BE USED IN ACCORDANCE WITH~~ AS PER STANDARD DRAWING CS-1. MOUNTABLE CURB AND GUTTER AS PER STANDARD DRAWING CS-3.

Ed 15

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~~ AS PER SECTION 10.0.

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7.3.2020

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
LANE

Scale:	NTS
Created:	NOV 2009
Rev Date:	~~MAY 2020~~
Dwg No:	L-XS1

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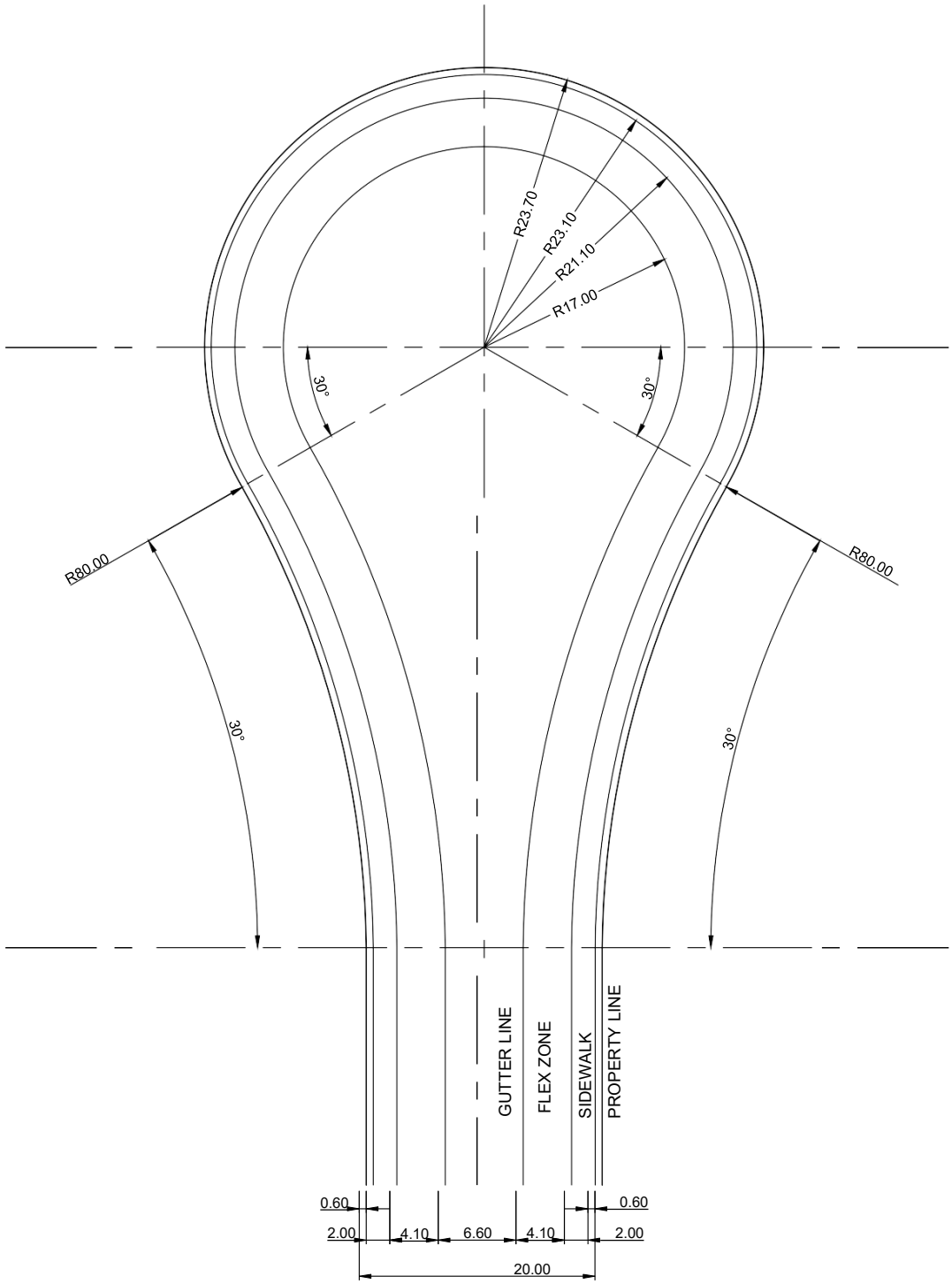


NOTE:

1. ALL DIMENSIONS SHOWN ARE MINIMUM.
2. ALL DIMENSIONS IN ~~METERS~~ METRES UNLESS OTHERWISE SHOWN.
3. APPLIES TO NEW CUL-DE-SACS

Ed 15

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
CUL-DE-SAC

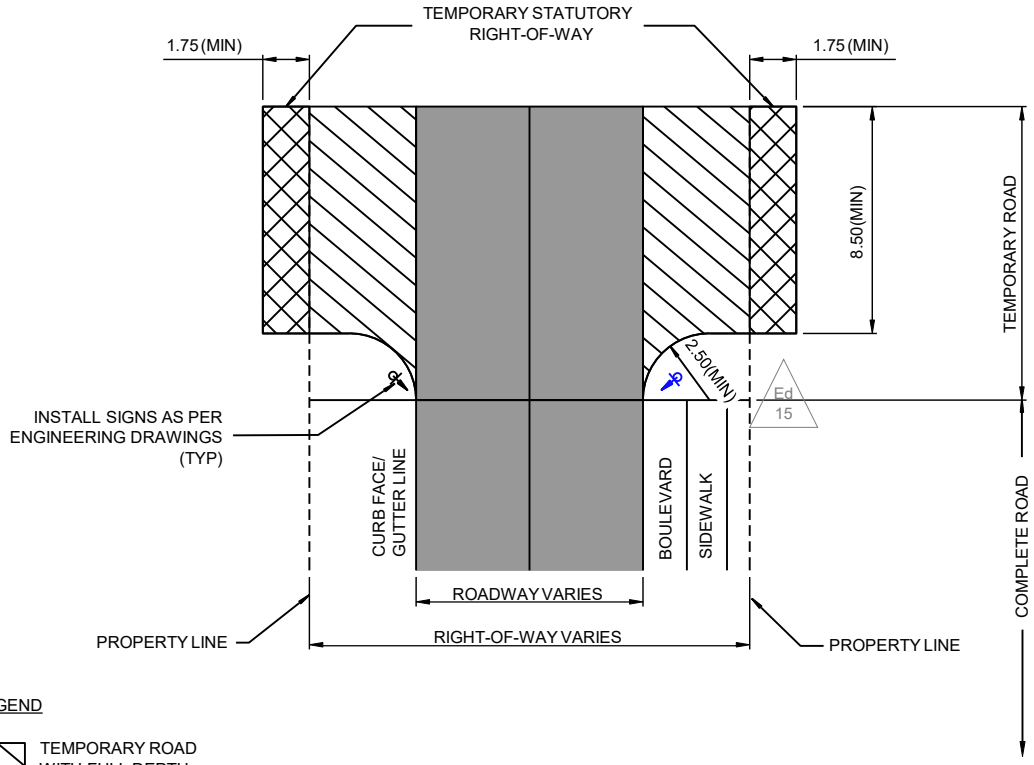
Scale:	NTS
Created:	MAY 2020
Rev Date:	~~MAY 2020~~
Dwg No:	R-CDS

Ed 15

Engineering Standards & Specifications
Edition 15

Ed 15

7.3.2020



LEGEND

TEMPORARY ROAD WITH FULL DEPTH ROAD STRUCTURE

COMPLETE ROAD

TEMPORARY STATUTORY RIGHT-OF-WAY OR TEMPORARY ROAD DEDICATION, WILL BE RELEASED WHEN ROAD IS CONNECTED.

TEMPORARY TURNABOUT

NOTES:

1. STANDARD TEMPORARY TURNAROUND SHALL BE USED FOR LOCAL LOW VOLUME ROADS AND A TEMPORARY STATUTORY RIGHT-OF-WAY SHALL BE APPLIED UNTIL THE ~~ROAD~~ STREET IS CONNECTED. A TEMPORARY ROAD DEDICATION SHALL BE APPLIED UNTIL THE ~~ROAD~~ STREET IS CONNECTED WHEN SUITABLE.
2. PARKING IS NOT PERMITTED WITHIN THE TEMPORARY TURNAROUND, REGULATORY SIGNAGE SHALL BE INSTALLED.
3. ALL DIMENSIONS IN ~~METERS~~ METRES UNLESS OTHERWISE SHOWN.
4. IF PROPERTY DOES NOT HAVE SUFFICIENT FIRE TRUCK ACCESS ON-SITE, THE DESIGN WILL REQUIRE FIRE DEPARTMENT APPROVAL.

Ed 15

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7.3.2020

CITY OF NANAIMO
THE HARBOUR CITY

STREET TYPES & CROSS SECTIONS
TEMPORARY TURNAROUND

Scale:	NTS
Created:	OCT 2012
Rev Date:	~~MAY 2020~~
Dwg No:	R-TT

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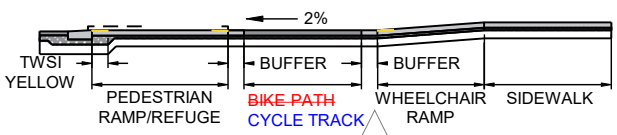
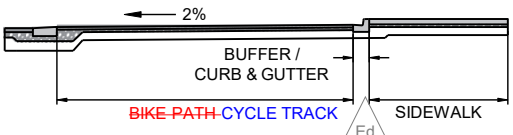
SECTION A-A

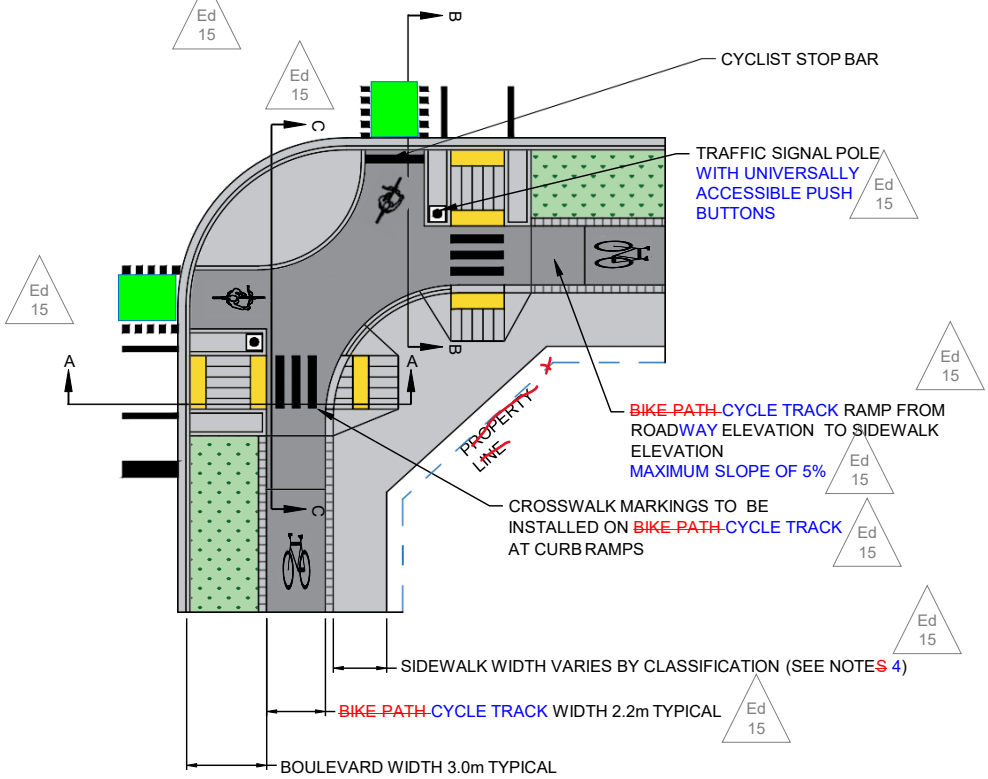


SECTION B-B



SECTION C-C

~~BIKE PATH~~ CYCLE TRACK AT SIDEWALK LEVEL



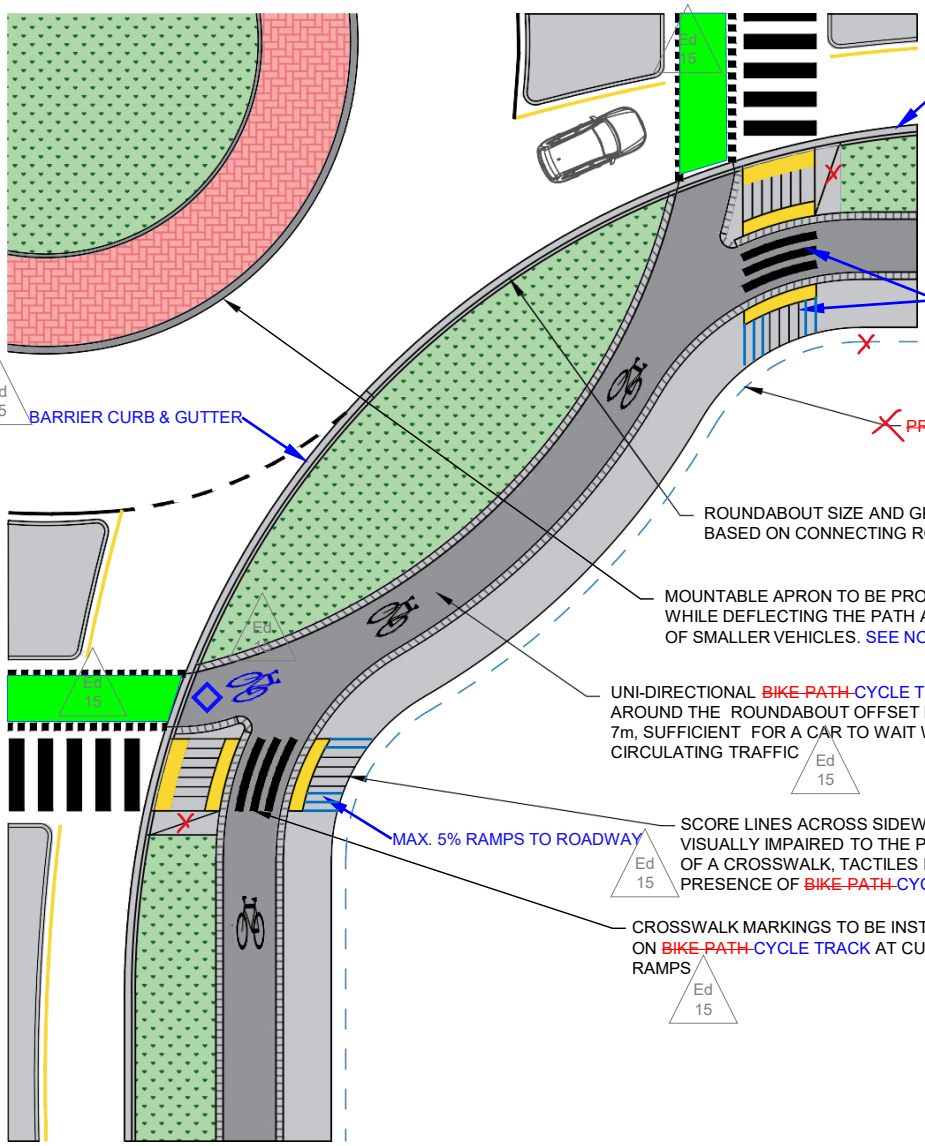
NOTES:

1. PROTECTED INTERSECTIONS REQUIRED AT ALL COLLECTOR AND ARTERIAL INTERSECTIONS WITH ~~PROTECTED BIKE LANES~~ CYCLE TRACKS.
2. ON APPROACHES TO THE INTERSECTION, THE BOULEVARD ~~SHALL BE~~ IS 3.0m WHERE BUS STOPS OR PARKING POCKETS ARE PRESENT; ~~BOULEVARD SHALL BE~~ NO LESS THAN 1.5m WHERE DRIVEWAYS ARE PRESENT ~~3.~~; AND 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.
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.~~
3. ~~4.~~ BANDING/BUFFER ON EITHER SIDE OF THE ~~BIKE PATH~~ CYCLE TRACK SHALL BE 0.3m STAMPED CONCRETE. WHERE PAVERS MAY BE PREFERRED FOR AESTHETIC REASONS, THEY SHALL BE SET IN CONCRETE TO AVOID MOVEMENT AS PER SECTION 13.0. WHERE VERTICAL SEPARATION IS PREFERRED, A CUSTOM MOUNTABLE MONOLITHIC CURB MAY BE ~~UTILIZED~~ PROPOSED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
4. ~~5.~~ SIDEWALK WIDTH VARIES BY CLASSIFICATION, 2.0m MIN. FOR URBAN OR INDUSTRIAL STREETS, 4.0m MIN. FOR MOBILITY STREETS.
5. ~~6.~~ SCORE LINES AND TWSIs TO BE INSTALLED WHERE PEDESTRIANS WILL BE CROSSING PATHS WITH VEHICLES OR CYCLISTS, AS PER SECTION 8.0.
6. ~~7.~~ PLACEMENT OF PUBLIC REALM AMENITIES MUST NOT IMPEDE SIGHT LINES.
7. ~~8.~~ INTERSECTION QUADRANTS ARE SCHEMATIC AND ARE TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE ~~LINES~~.

CITY OF NANAIMO
THE HARBOUR CITY

INTERSECTIONS
PROTECTED

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~JULY 2022~~
Dwg No:	R-PI



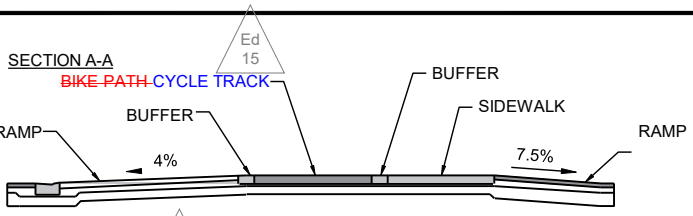
NOTES:

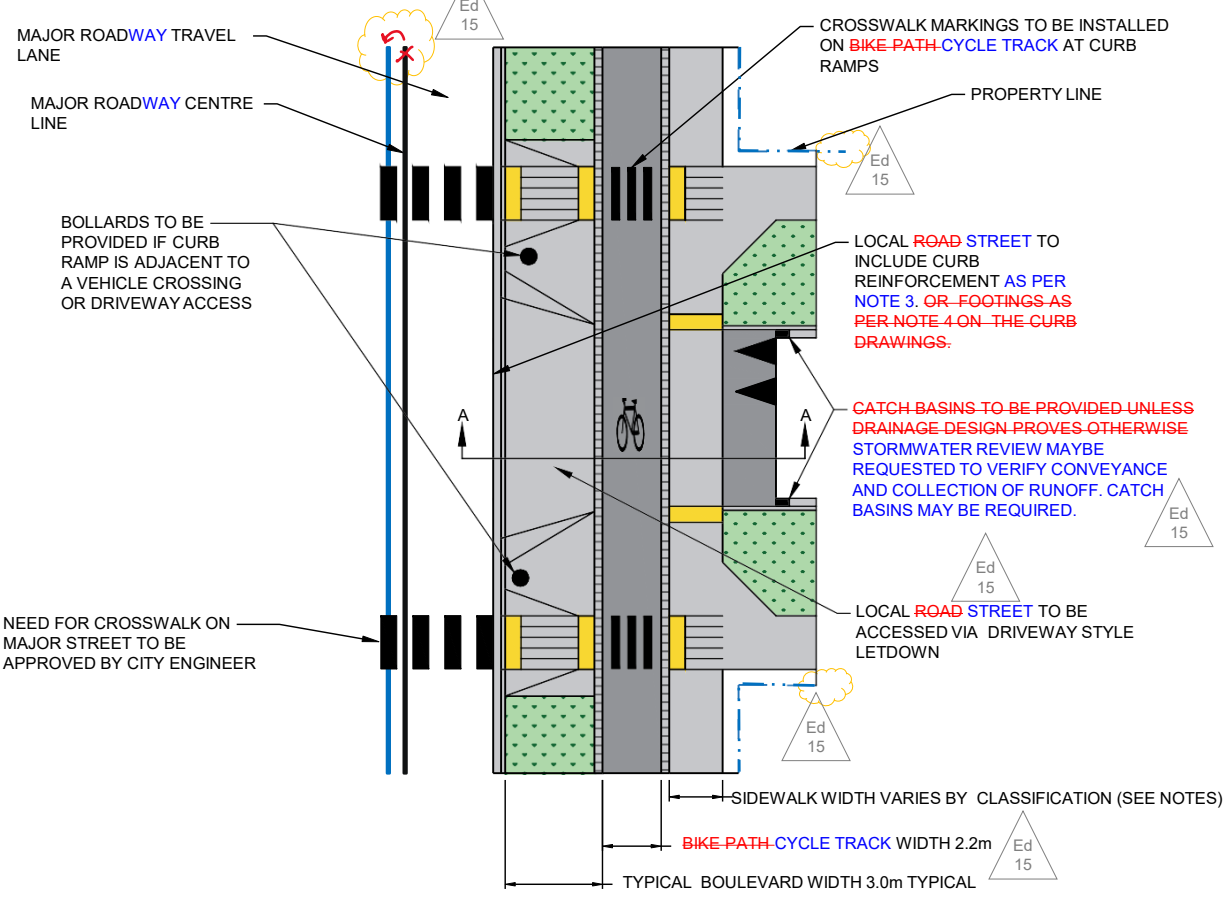
1. ROUNDABOUT MAY BE USED IN PLACE OF A PROTECTED SIGNALIZED INTERSECTION WHERE SPACE PERMITS AND ITS DETERMINED TO OFFER BENEFITS OVER A SIGNALIZED INTERSECTION.
2. ON APPROACHES TO THE INTERSECTION, THE BOULEVARD ~~SHALL BE~~ IS 3.0m WHERE BUS STOPS OR PARKING POCKETS ARE PRESENT; ~~. BOULEVARD SHALL BE~~ NO LESS THAN 1.5m WHERE DRIVEWAYS ARE PRESENT ~~.3. .~~; AND WHERE PARKING POCKETS ARE PRESENT, THE DISTANCE BETWEEN FACE OF CURB AND ~~BIKE PATH~~ CYCLE TRACK MUST BE NO LESS THAN 0.6m TO PROVIDE A DOOR ZONE.
3. ~~4.~~ BANDING/BUFFER ON EITHER SIDE OF THE ~~BIKE PATH~~ CYCLE TRACK ~~SHALL BE~~ WIDTH IS 0.3m STAMPED CONCRETE AS PER SECTION 13.0. WHERE PAVERS MAY BE PREFERRED FOR AESTHETIC REASONS, THEY SHALL BE SET IN CONCRETE TO AVOID MOVEMENT. WHERE VERTICAL SEPARATION IS PREFERRED, A CUSTOM MOUNTABLE MONOLITHIC CURB MAY BE ~~UTILIZED~~ PROPOSED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
4. ~~6.~~ SCORE LINES AND TWSIs TO BE INSTALLED WHERE PEDESTRIANS WILL BE CROSSING PATHS WITH VEHICLES OR CYCLISTS, AS PER SECTION 8.
5. ~~7.~~ PLACEMENT OF PUBLIC REALM AMENITIES MUST NOT IMPEDE SIGHT LINES.
6. ~~8.~~ INTERSECTION QUADRANTS ARE SCHEMATIC AND ARE TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.
7. MOUNTABLE APRON CONCRETE THICKNESS AND SPECIFICATIONS TO BE SUBJECT TO TRAFFIC LOADING REQUIREMENTS AND DESIGNED BY A PROFESSIONAL OF RECORD. MOUNTABLE CURB AND GUTTER AS PER STANDARD DRAWING CS-3. CONCRETE AND REINFORCEMENT AS PER SECTION 11.0. THE COLOURED AND STAMPED CONCRETE AS PER SECTION 13.0.

CITY OF NANAIMO
THE HARBOUR CITY

INTERSECTIONS
PROTECTED ROUNDABOUT

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~JULY 2022~~
Dwg No:	R-PRI





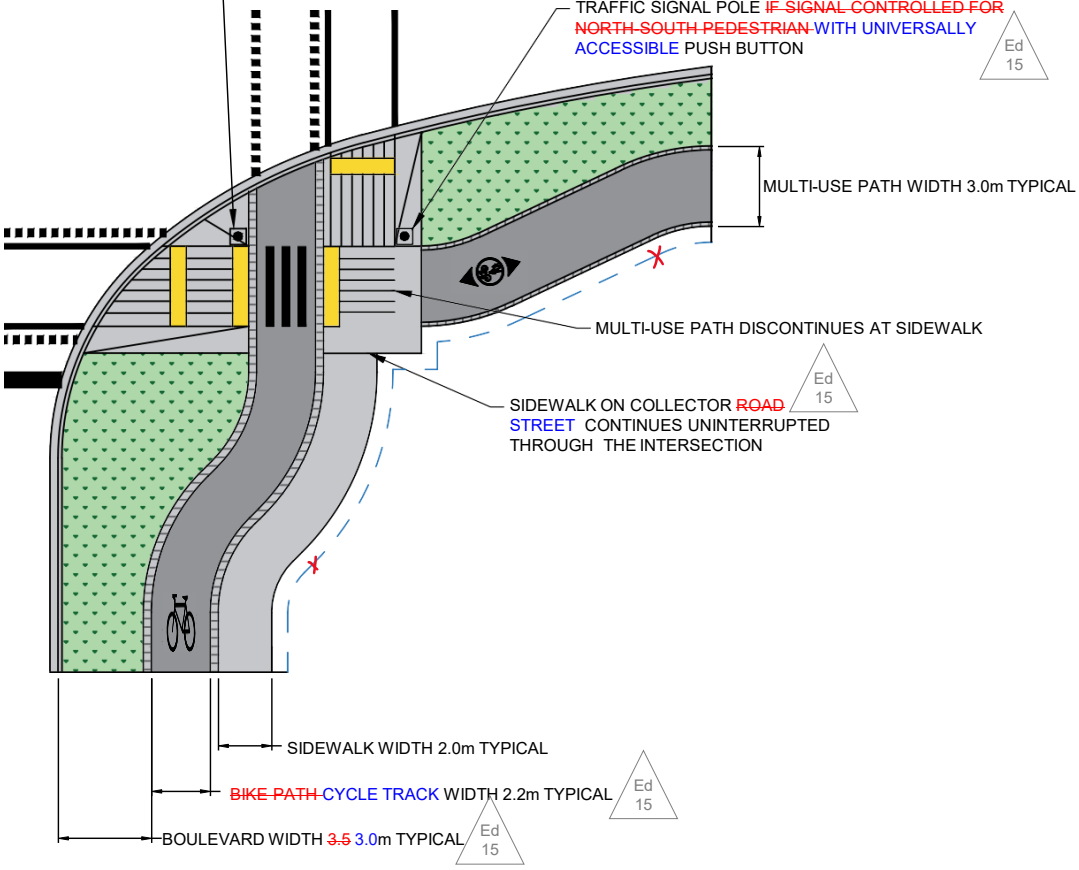
NOTES:

1. ~~BIKE PATH~~ CYCLE TRACK AND SIDEWALK TO REMAIN AT LEVEL GRADE THROUGH INTERSECTION.
2. CONCRETE SURFACES TO BE A MINIMUM THICKNESS OF 100mm AND 150mm WHERE VEHICLE TRAFFIC IS ANTICIPATED. CONCRETE REQUIREMENTS AS PER SECTION 11.0.
3. CONCRETE DROP CURB AND GUTTER TO HAVE REINFORCING BARS OR CONCRETE FOOTING AS PER STANDARD DRAWING CS-2.
4. WHERE LOCAL ~~ROAD~~ STREET IS ONLY PRESENT ON ONE SIDE OF THE STREET AND MAJOR ~~ROAD~~ STREET HAS ~~BIKE PATH~~ CYCLE TRACK, PROVIDE CURB RAMP ~~LETDOWN~~ OPPOSITE LOCAL ~~ROAD~~ STREET TO PROVIDE ACCESS FROM THE LOCAL ~~ROAD~~ STREET TO THE OPPOSITE ~~BIKE PATH~~ CYCLE TRACK .
5. BOULEVARD SHALL BE 3.0m WHERE BUS STOPS OR PARKING POCKETS ARE PRESENT. BOULEVARD SHALL BE NO LESS THAN 1.5m WHERE DRIVEWAYS ARE PRESENT.
6. WHERE PARKING POCKETS ARE PRESENT, DISTANCE BETWEEN FACE OF CURB AND ~~BIKE PATH~~ CYCLE TRACK MUST BE NO LESS THAN 0.6m TO PROVIDE A DOOR ZONE.
7. BANDING/BUFFER ON EITHER SIDE OF THE ~~BIKE PATH~~ CYCLE TRACK SHALL BE 0.3m STAMPED CONCRETE AS PER SECTION 13.0. WHERE PAVERS MAY BE PREFERRED FOR AESTHETIC REASONS, THEY SHALL BE SET IN CONCRETE TO AVOID MOVEMENT. WHERE VERTICAL SEPARATION IS PREFERRED, A CUSTOM MOUNTABLE MONOLITHIC CURB MAY BE ~~UTILIZED~~ PROPOSED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
8. SIDEWALK WIDTH VARIES BY CLASSIFICATION, 2.0m MIN. FOR URBAN OR INDUSTRIAL STREETS, 4.0m MIN. FOR MOBILITY STREETS.
9. SCORE LINES AND TWSIs TO BE INSTALLED WHERE PEDESTRIANS WILL BE CROSSING PATHS WITH VEHICLES OR CYCLISTS.
10. PLACEMENT OF PUBLIC REALM AMENITIES MUST NOT IMPEDE SIGHT LINES.
11. INTERSECTION QUADRANTS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.

CITY OF NANAIMO
THE HARBOUR CITY

INTERSECTIONS
RAISED LOCAL

Scale:	NTS
Created:	AUG 2019
Rev Date:	~~JULY 2022~~
Dwg No:	R-RLI



NOTES:

1. ON APPROACHES TO THE INTERSECTION, THE BOULEVARD ~~SHALL BE MINIMUM~~ IS 3.0m WHERE BUS STOPS OR PARKING POCKETS ARE PRESENT; ~~4. BOULEVARD SHALL BE~~ NO LESS THAN 1.5m WHERE DRIVEWAYS ARE PRESENT~~3.~~; AND WHERE PARKING POCKETS ARE PRESENT, THE DISTANCE BETWEEN FACE OF CURB AND ~~BIKE PATH~~ CYCLE TRACK MUST BE NO LESS THAN 0.6m TO PROVIDE A DOOR ZONE.

~~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.~~

2. ~~5.~~ BANDING/BUFFER ON EITHER SIDE OF THE ~~BIKE PATH~~ CYCLE TRACK SHALL BE 0.3m STAMPED CONCRETE AS PER SECTION 13.0. WHERE PAVERS MAY BE PREFERRED FOR AESTHETIC REASONS, THEY SHALL BE SET IN CONCRETE TO AVOID MOVEMENT. WHERE VERTICAL SEPARATION IS PREFERRED, A CUSTOM MOUNTABLE MONOLITHIC CURB MAY BE PROPOSED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.
3. ~~6.~~ MULTI-USE PATH ON INDUSTRIAL LOCAL ~~ROADS~~ STREET WILL FEATURE 0.3m STAMPED CONCRETE EDGES ~~WITH TRANSVERSE SCORE LINES AT 0.3m INTERVALS~~ AS PER SECTION 13.0.
4. ~~7.~~ SCORE LINES AND TWSIs TO BE INSTALLED WHERE PEDESTRIANS WILL BE CROSSING PATHS WITH VEHICLES OR CYCLISTS, AS PER SECTION 8.
5. ~~8.~~ PLACEMENT OF PUBLIC REALM AMENITIES MUST NOT IMPEDE SIGHT LINES.
6. ~~9.~~ INTERSECTION QUADRANTS TO BE USED IN CONJUNCTION WITH CITY'S COMPLETE STREET DESIGN GUIDE~~LINES~~.

CITY OF NANAIMO
THE HARBOUR CITY

INTERSECTIONS
INDUSTRIAL LOCAL
Ed 15

Scale:	NTS
Created:	OCT 2019
Rev Date:	~~JULY 2022~~
Dwg No:	R-II

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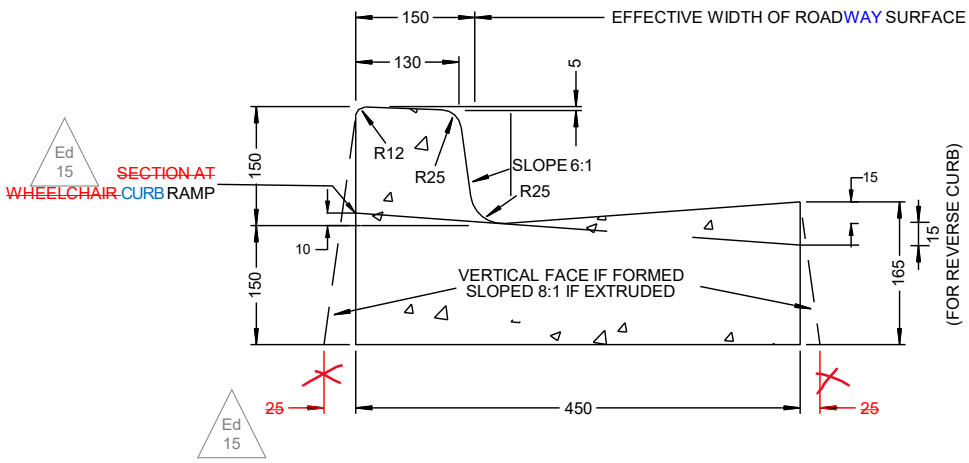


BARRIER CURB AND GUTTER

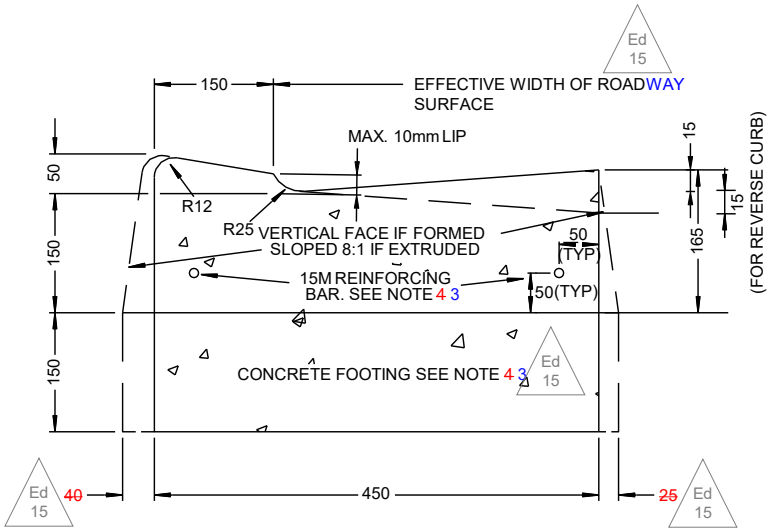
NOTES:

1. FOR BASE AND SUB-BASE REQUIREMENTS, REFER TO AS PER SECTION 9.0.
2. FOR CONCRETE REQUIREMENTS REFER TO AS PER SECTION 11.0.
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 METRES.
4. ~~REINFORCING BARS OR CONCRETE FOOTING REQUIRED FOR LANE ACCESSES AND FOR COMMERCIAL AND INDUSTRIAL DRIVEWAY ACCESSES.~~
4. ~~5.~~ REVERSE CURB SHALL BE APPROVED BY CITY ENGINEER.
5. ~~6.~~ ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.
6. LANDSCAPING AS PER SECTION 14.0.
7. PAVED ROADWAY SURFACE STRUCTURE AS PER SECTION 9.0 BASED ON STREET CLASSIFICATION.

CITY OF NANAIMO
THE HARBOUR CITY

CURBS
BARRIER CURB AND GUTTER

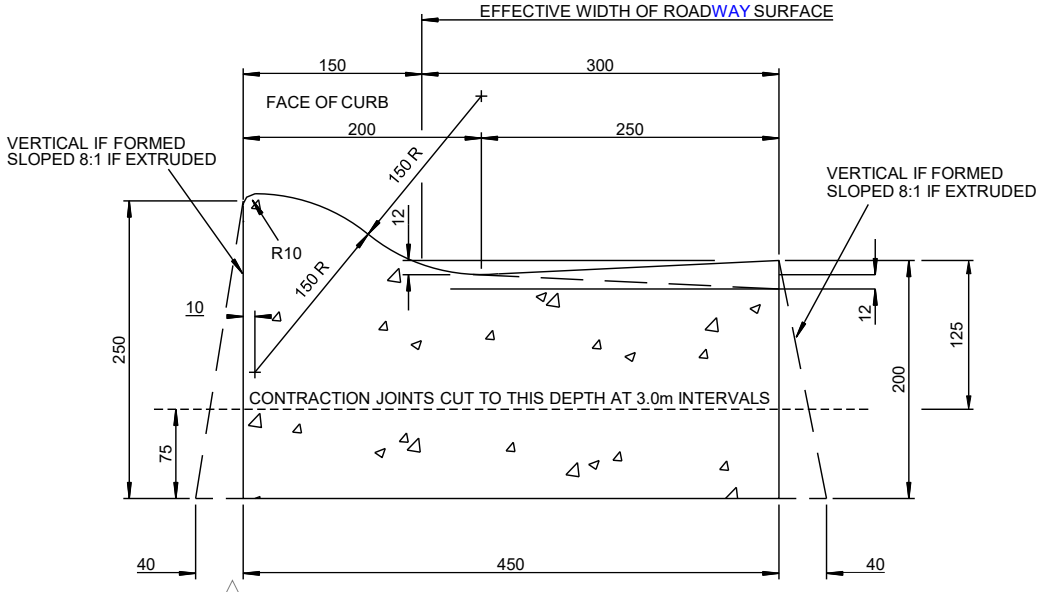
Scale:	NTS
Created:	SEP 2012
Rev Date:	~~MAY 2020~~
Dwg No:	CS-1



DROP CURB AND GUTTER

NOTES:

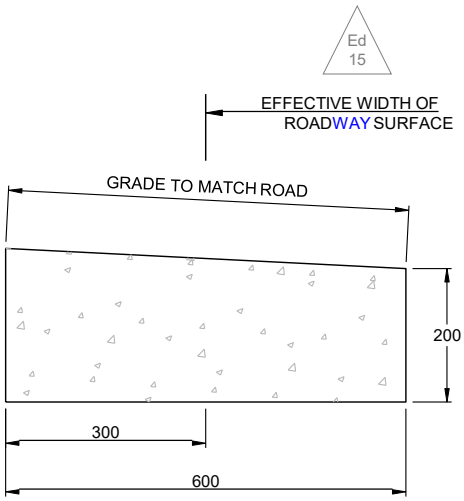
1. ~~FOR~~ BASE AND SUB-BASE REQUIREMENTS~~, REFER TO~~ AS PER SECTION 9.0.
2. ~~FOR~~ CONCRETE REQUIREMENTS ~~REFER TO~~ AS PER TO SECTION 11.
3. ~~THE LENGTH OF TRANSITION FROM ONE TYPE OF CURB TO ANOTHER SHALL BE THE GREATEST OF:~~
   - ~~a) 50 x DIFFERENCE IN OVERALL CURB HEIGHTS.~~
   - ~~b) 25 x DIFFERENCE IN GUTTER WIDTHS.~~
   - ~~c) 2.0 METERS.~~
3. ~~4.~~ REINFORCING BARS OR CONCRETE FOOTING REQUIRED FOR ACCESSES TO LOCAL STREET, LANES, AND DRIVEWAYS FOR COMMERCIAL AND INDUSTRIAL. ~~LANE ACCESSES AND FOR COMMERCIAL AND INDUSTRIAL DRIVEWAY ACCESSES~~.
4. ~~5.~~ REVERSE CURB SHALL BE APPROVED BY CITY ENGINEER.
5. ~~6.~~ ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.



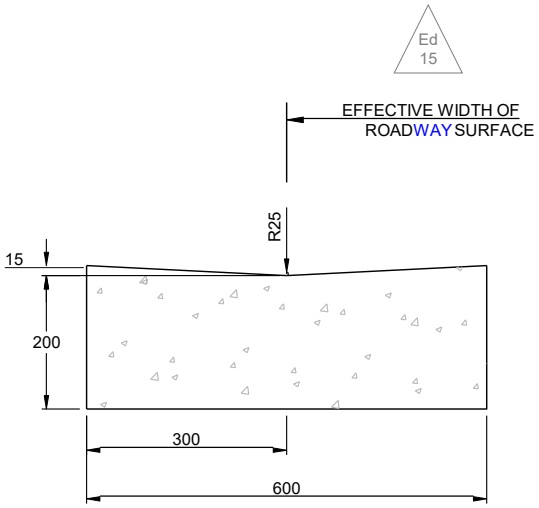
MOUNTABLE ROLLOVER CURB AND GUTTER

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~~ AS PER SECTION 9.0.
3. FOR CONCRETE REQUIREMENTS ~~REFER TO~~ AS PER SECTION 11.0.
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~~ METRES.
5. REVERSE CURB SHALL BE APPROVED BY CITY ENGINEER.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.



FLAT GUTTER



VALLEY GUTTER

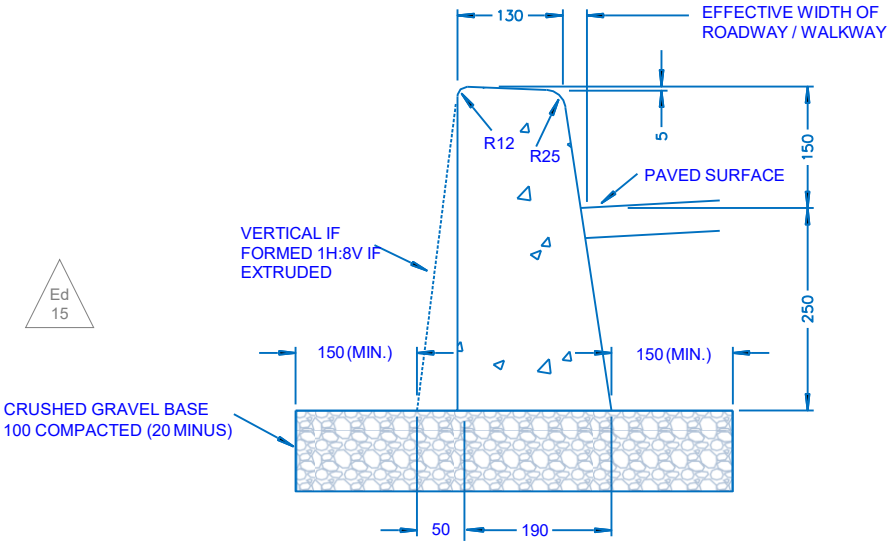
NOTES:

1. ~~FOR~~ BASE AND SUB-BASE REQUIREMENTS~~, REFER TO~~ AS PER SECTION 9.0.
2. ~~FOR~~ CONCRETE REQUIREMENTS ~~REFER TO~~ AS PER SECTION 11.0.
3. AT LOCATIONS OTHER THAN PEDESTRIAN CURB RAMPS, 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~~ METRES.
4. MIDPOINT OF CURB SHALL ALIGN WITH THE UPSTREAM AND DOWN STREAM CURB FACES.
5. REINFORCEMENT BARS OR CONCRETE FOOTING REQUIRED FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.

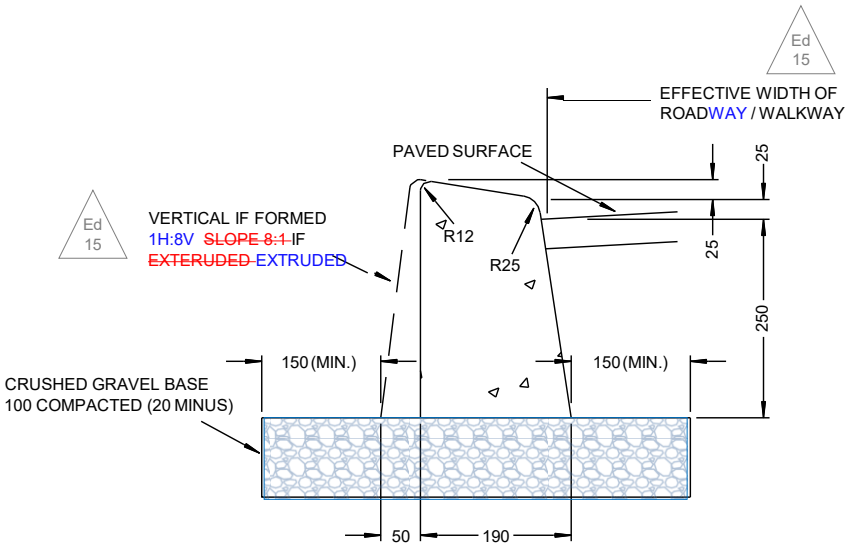
CITY OF NANAIMO
THE HARBOUR CITY

CURBS
FLAT AND VALLEY GUTTER

Scale:	NTS
Created:	NOV 2012
Rev Date:	~~MAY 2020~~
Dwg No:	CS-4



TEMPORARY CURB – TYPE 1 – BARRIER HEIGHT



TEMPORARY CURB - TYPE 1 – DROP SECTION

NOTES:

1. ~~FOR~~ BASE AND SUB-BASE REQUIREMENTS~~, REFER TO~~ AS PER SECTION 9.0.
2. ~~FOR~~ CONCRETE REQUIREMENTS ~~REFER TO~~ AS PER SECTION 11.0.
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~~ METRES.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.
5. APPLICATION OF THIS STANDARD AT THE DISCRETION OF THE CITY ENGINEER.

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CITY OF NANAIMO
THE HARBOUR CITY

CURBS
TEMPORARY CURB - TYPE 1

Scale:	NTS
Created:	OCT 1993
Rev Date:	~~MAY 2020~~
Dwg No:	CS-5

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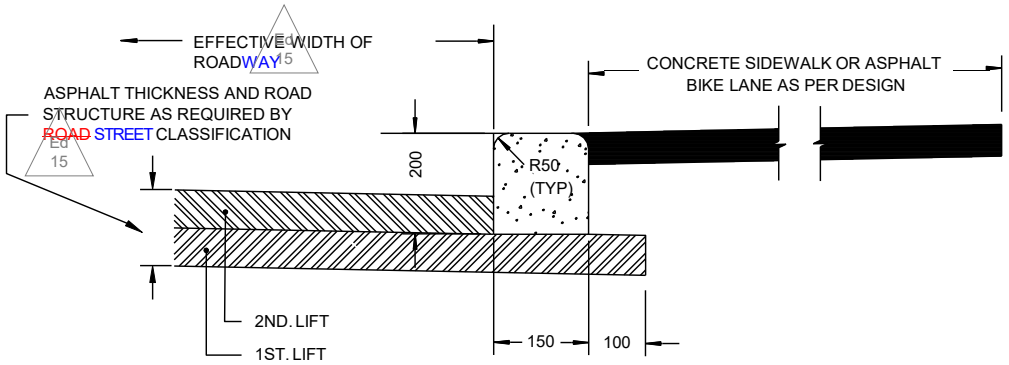
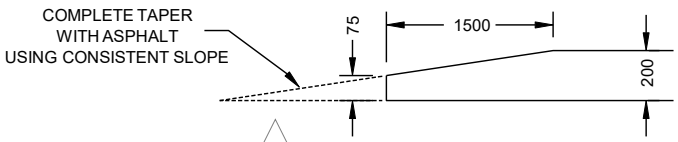


TEMPORARY CURB - TYPE 2



CURB RAMP ~~LETDOWN~~ DETAIL

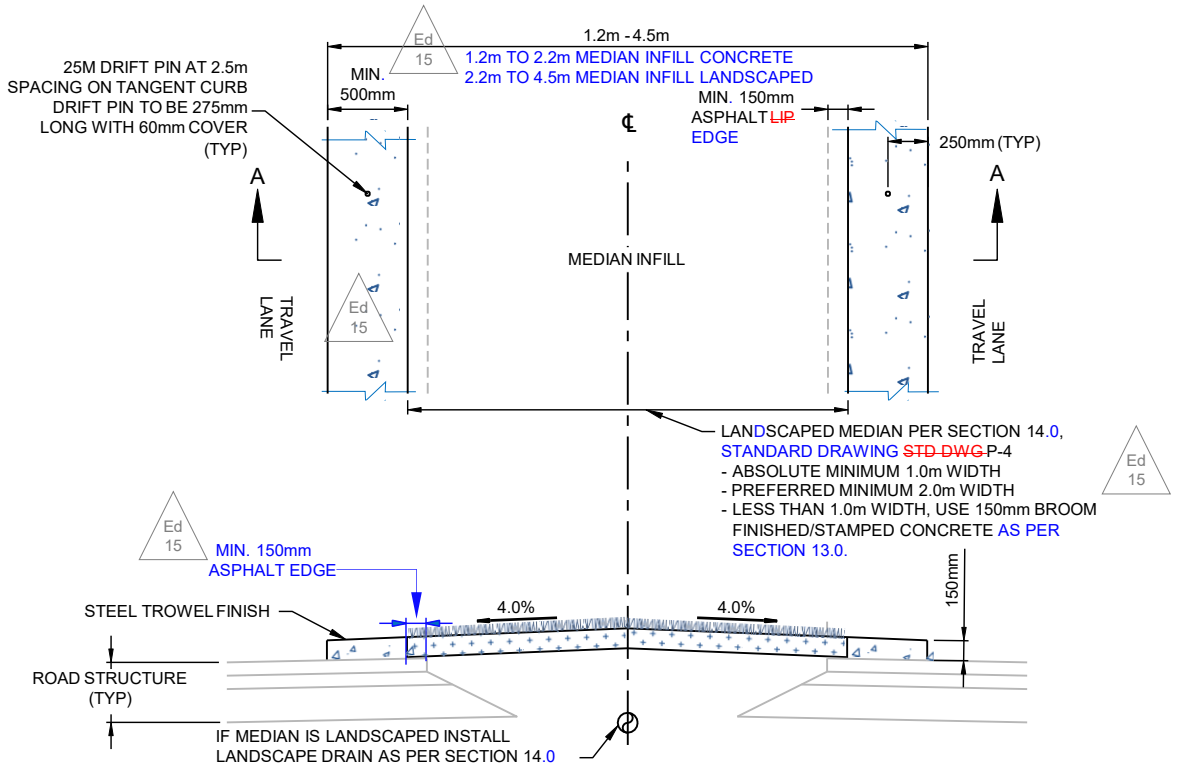
NOTES:

1. APPLICATION OF THIS STANDARD AT THE DISCRETION OF THE CITY ENGINEER.
2. PROVIDE 1500mm TAPER TO ZERO HEIGHT AT DROP LOCATIONS.
3. CURB HEIGHT 150mm IF INSTALLED ON FINAL LIFT AND 200mm IF INSTALLED ON BOTTOM LIFT.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.

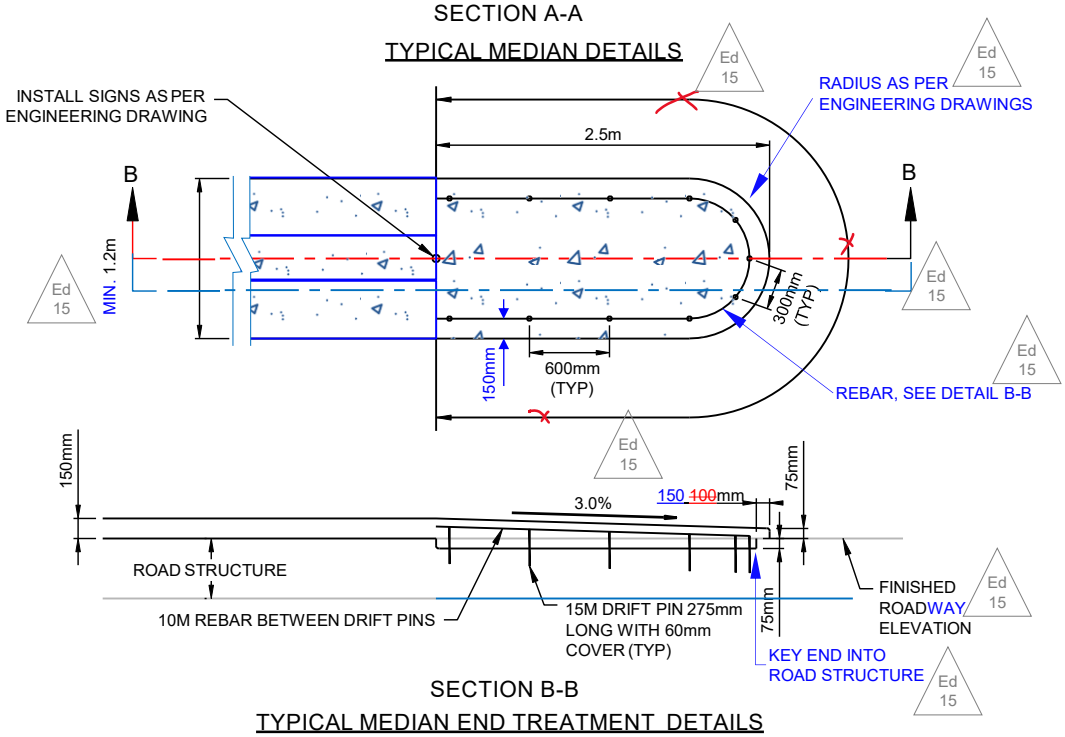
CITY OF NANAIMO
THE HARBOUR CITY

CURBS
TEMPORARY CURB - TYPE 2

Scale: NTS
Created: SEP 2012
Rev Date: ~~MAY 2020~~
Dwg No: CS-6



TYPICAL MEDIAN DETAILS



SECTION B-B

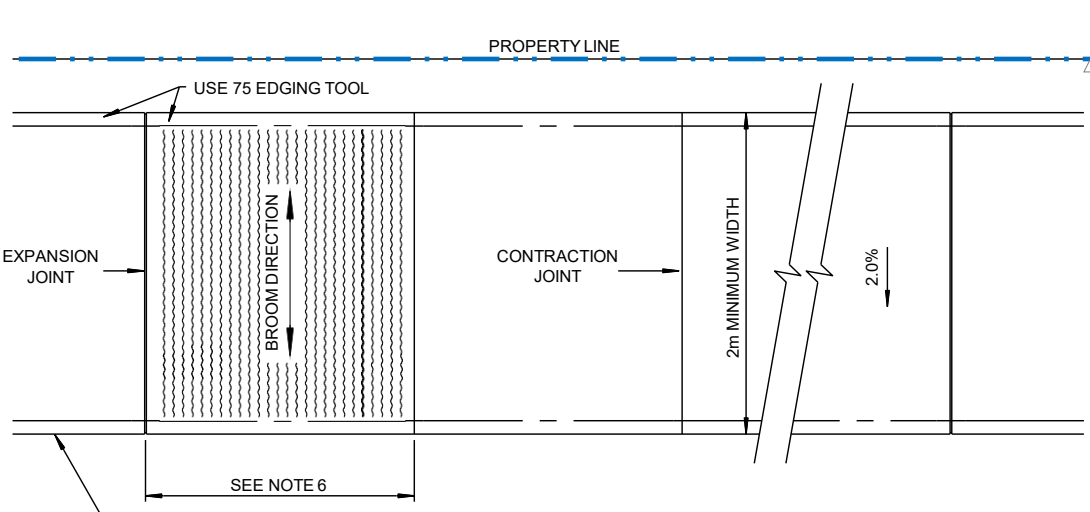
TYPICAL MEDIAN END TREATMENT DETAILS

CITY OF NANAIMO
THE HARBOUR CITY

MEDIANS AND ISLANDS
RAISED CENTRE MEDIAN

Scale:	NTS
Created:	OCT 2019
Rev Date:	~~MAY 2020~~
Dwg No:	CS-7

3.18.2020



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CONTRACTION JOINT IF SIDEWALK IS POURED INTEGRALLY TO CURB. ISOLATION JOINT IF SIDEWALK IS POURED ADJACENT TO CURB. BOND BREAK COMPOUND MAY BE USED WHERE APPROVED BY THE ~~ENGINEER~~ PROFESSIONAL OF RECORD.

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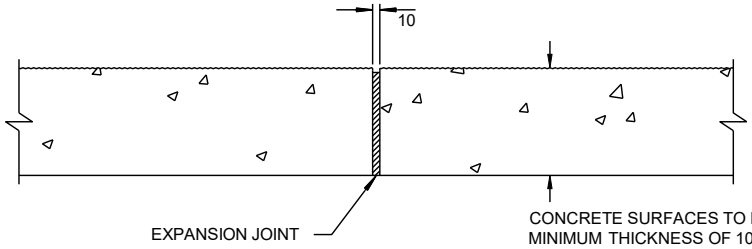

NOTES:

1. ~~FOR~~ DRIVEWAY CROSSING DETAIL ~~SEE DWG.~~ AS PER STANDARD DRAWINGS CS-24, CS-25, & CS-26.
2. SIDEWALKS SHALL HAVE BROOMED FINISH.
3. ~~FOR~~ CONCRETE DETAILS ~~SEE~~ AS PER SECTION 11.0.
4. ~~FOR~~ BASE AND SUB-BASE REQUIREMENTS ~~SEE~~ AS PER SECTION 9.0.
5. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.
6. JOINTS ~~DIMENSIONS~~ SHOULD BE OF EQUAL SPACING ALONG SIDEWALK TO BE AS CLOSE TO SQUARE AS POSSIBLE.

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6.24.2020

CITY OF NANAIMO
THE HARBOUR CITY

SIDEWALKS
SIDEWALK FINISHING DETAILS

Scale:	NTS
Created:	NOV 2012
Rev Date:	~~MAY 2020~~
Dwg No:	CS-8

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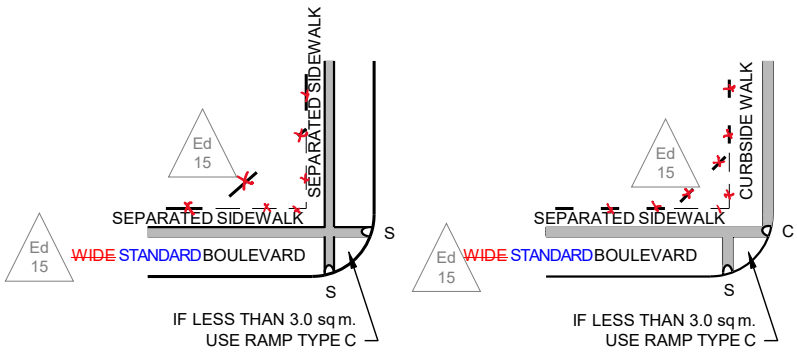
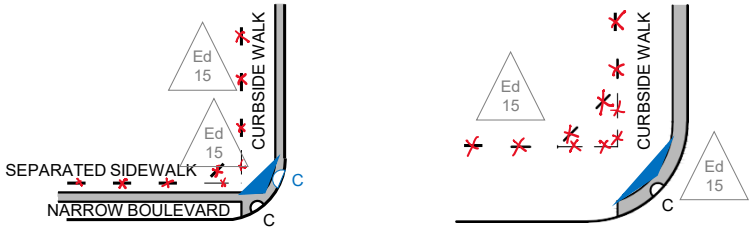
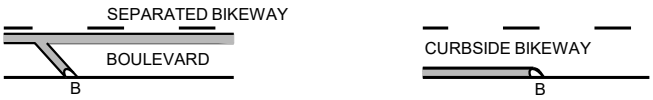


TYPE S - SEPARATED



TYPE C - CONSTRAINED

TYPE M - MID-BLOCK



TYPE B - BIKEWAY

NOTES:

1. CORNER CUT REQUIREMENTS DEPENDENT ON GEOMETRIC DESIGN AND SIGHT LINE REQUIREMENTS.

3.18.2020

CITY OF NANAIMO
THE HARBOUR CITY

CURB RAMPS
ORIENTATIONS

Scale:	NTS
Created:	OCT 2019
Rev Date:	~~MAY 2020~~
Dwg No:	CS-12

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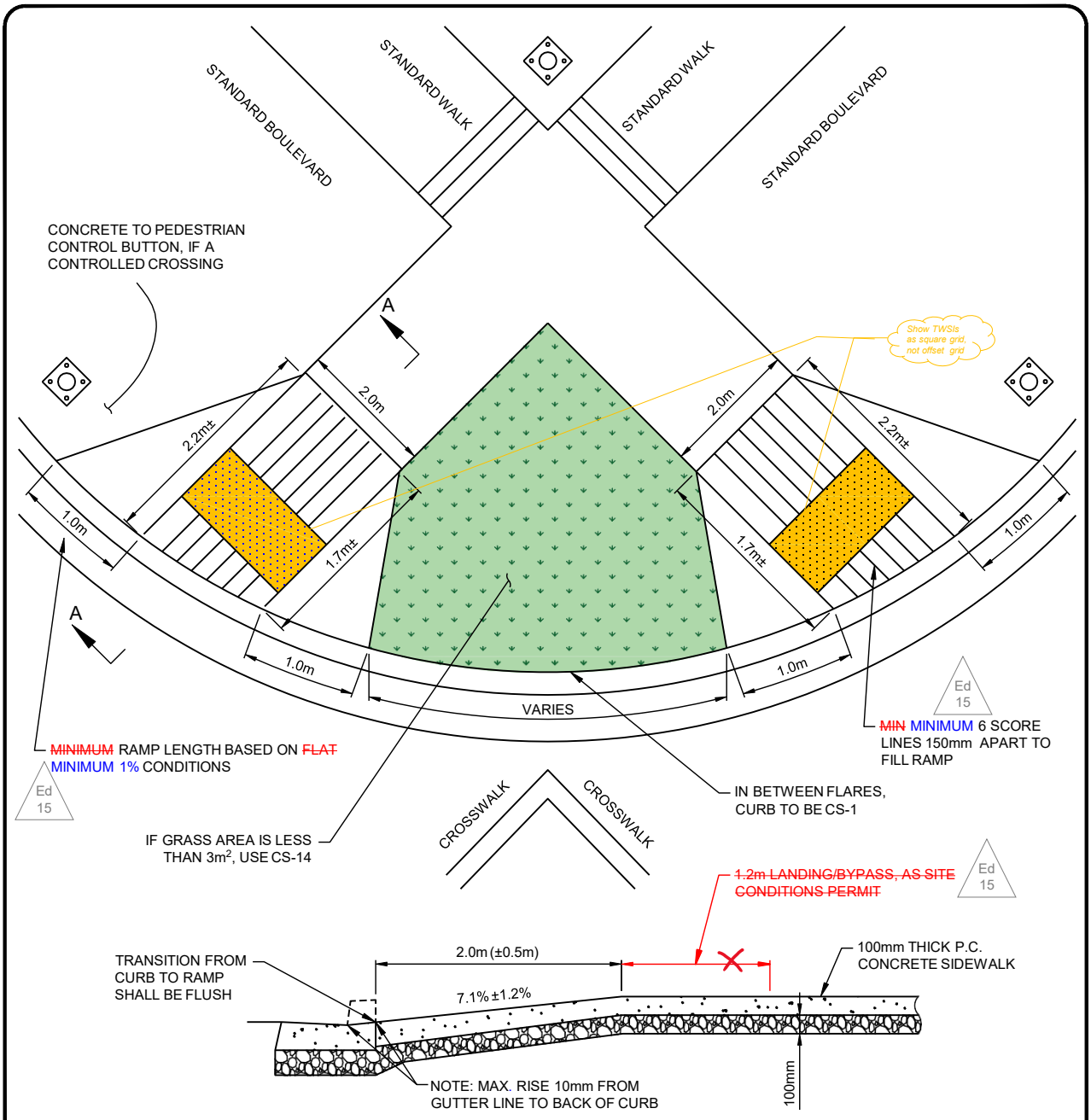

SECTION A-A

NOTES:

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1. PEDESTRIAN SIDEWALK RAMP AND CURB RETURN AS PER DESIGN BY ~~DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER~~ PROFESSIONAL OF RECORD.
2. TOOLED LINES ARE ~~TO BE~~ CENTERED IN THE CROSSWALK AND ~~ARE TO~~ POINT IN DIRECTION OF THE RECEIVING CURB RAMP.
3. INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK. CATCH BASINS ARE NOT PERMITTED IN ~~CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF~~ CROSSWALK.
4. ALL TWSIs TO BE DESIGNED AND INSTALLED AS PER SECTION 8.0.
5. POLE LOCATIONS ARE ~~DIAGRAMMATIC~~ DIAGRAPHIC. PEDESTRIAN SIGNALS AS PER SECTION 10.0. EXACT LOCATIONS TO BE DETERMINED BY ~~ENGINEER~~ PROFESSIONAL OF RECORD.
6. CONCRETE AS PER SECTION 11.0.
7. LANDSCAPING AS PER SECTION 14.0.

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CITY OF NANAIMO
THE HARBOUR CITY

CURB RAMPS
TYPE S - SEPARATED

Scale:	NTS
Created:	OCT 2019
Rev Date:	~~MAY 2020~~
Dwg No:	CS-13

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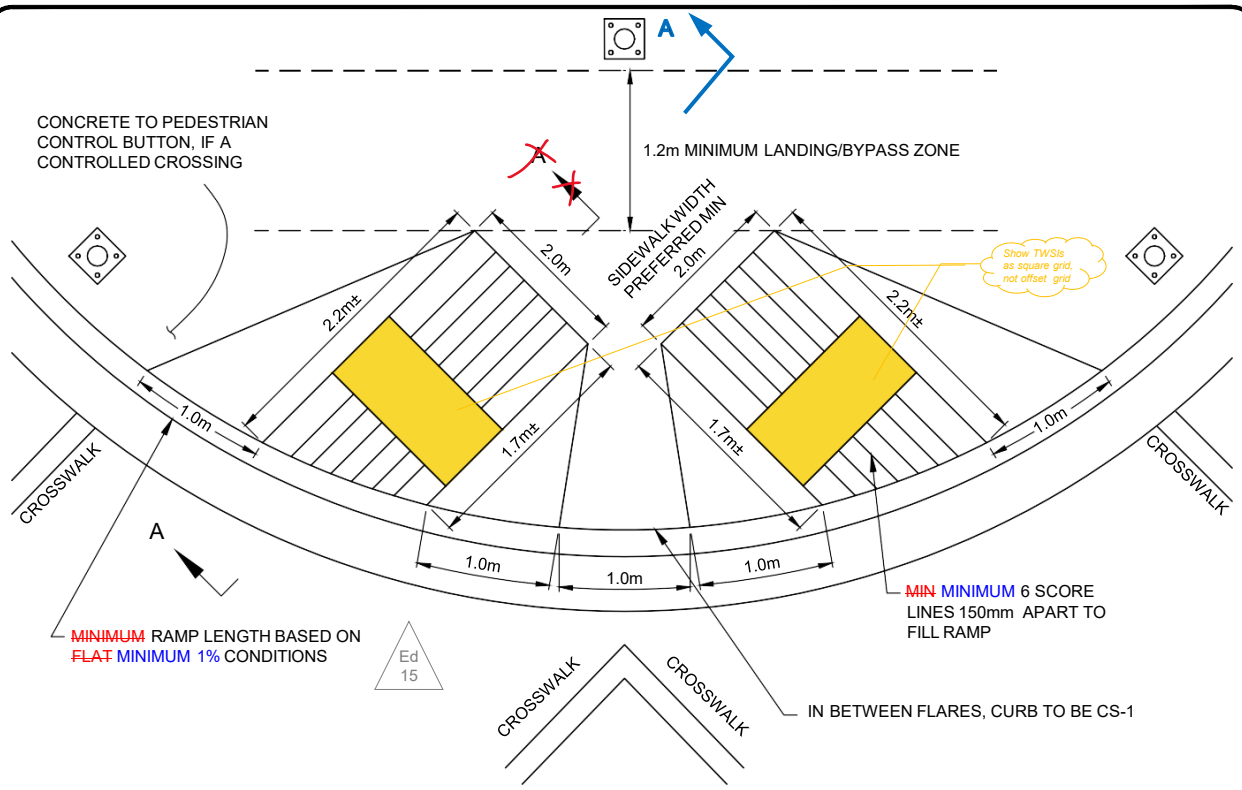

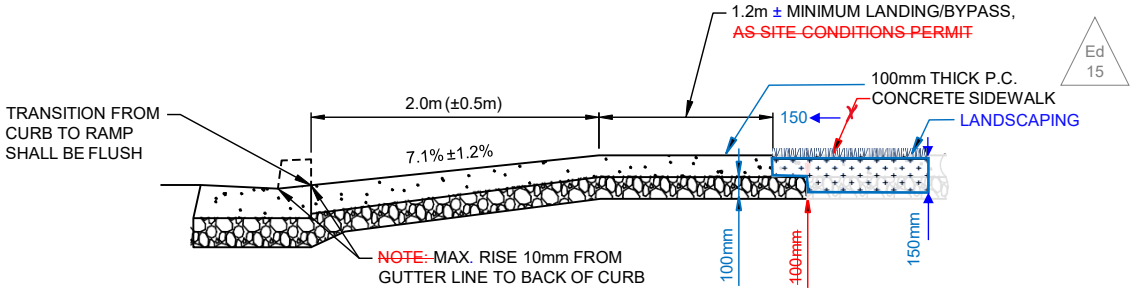

SECTION A-A

NOTES:

1. PEDESTRIAN SIDEWALK RAMP AND CURB RETURN AS PER DESIGN BY ~~DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER~~ PROFESSIONAL OF RECORD.
2. TOOLED LINES ARE ~~TO BE~~ CENTERED IN THE CROSSWALK AND ~~ARE TO~~ POINT IN DIRECTION OF THE RECEIVING CURB RAMP.
3. INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK. CATCH BASINS ARE NOT PERMITTED IN ~~CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF~~ CROSSWALK.
4. ALL TWSIs TO BE DESIGNED AND INSTALLED AS PER SECTION 8.0.
5. POLE LOCATIONS ARE ~~DIAGRAMMATIC~~ DIAGRAPHIC. PEDESTRIAN SIGNALS AS PER SECTION 10.0. EXACT LOCATIONS TO BE DETERMINED BY ~~ENGINEER~~ PROFESSIONAL OF RECORD.
6. CONCRETE AS PER SECTION 11.0.
7. LANDSCAPING AS PER SECTION 14.0.

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CITY OF NANAIMO
THE HARBOUR CITY

CURB RAMPS
TYPE C - CONSTRAINED (PREFERRED)

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

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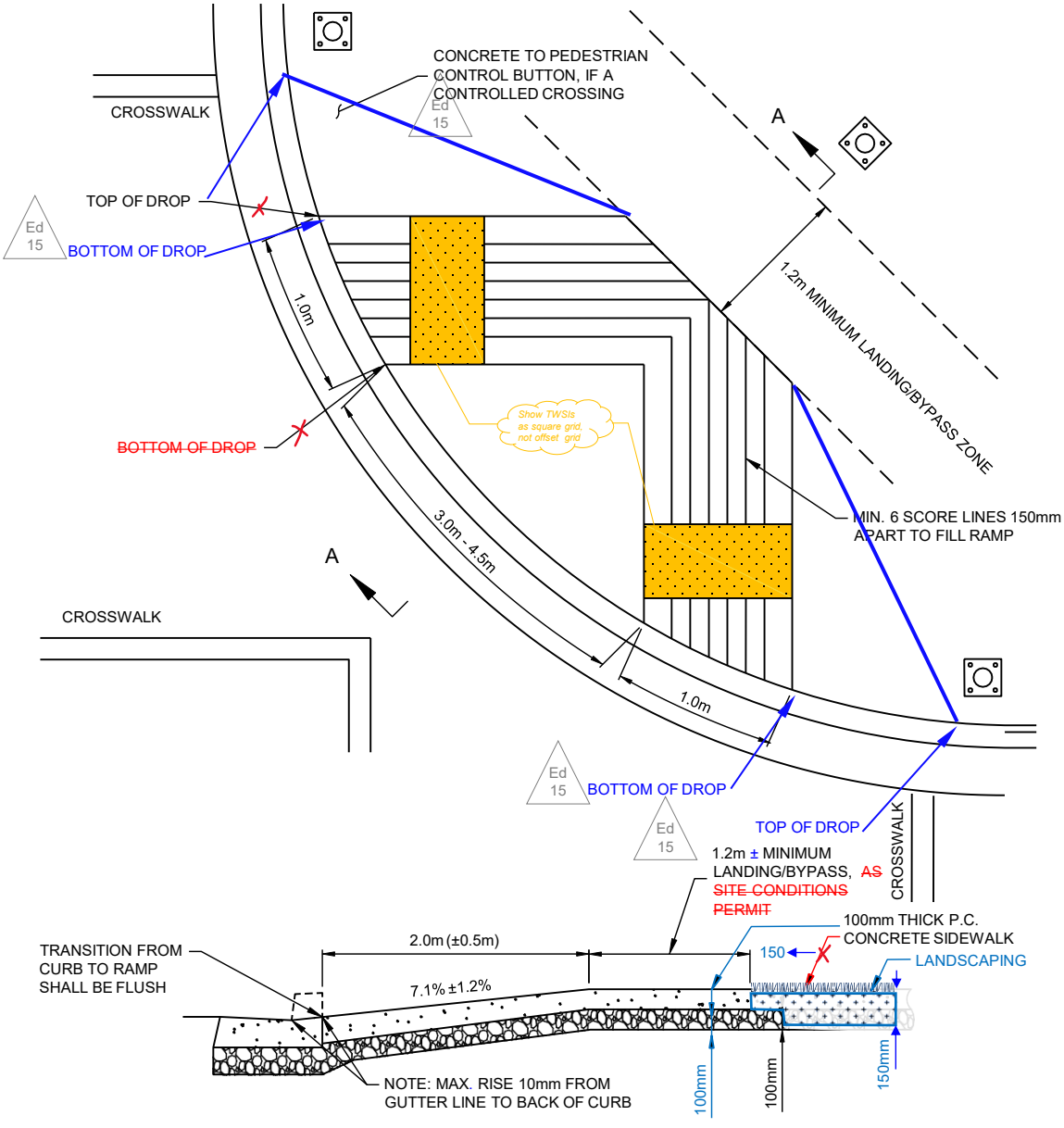

SECTION A-A

NOTES:

1. PEDESTRIAN SIDEWALK RAMP AND CURB RETURN AS PER DESIGN BY ~~DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER~~ PROFESSIONAL OF RECORD.
2. TOOLED LINES ARE ~~TO BE~~ CENTERED IN THE CROSSWALK AND ~~ARE TO~~ POINT IN DIRECTION OF THE RECEIVING CURB RAMP.
3. INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK. CATCH BASINS ARE NOT PERMITTED IN ~~CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF~~ CROSSWALK.
4. ALL TWSIs TO BE DESIGNED AND INSTALLED AS PER SECTION 8.0.
5. POLE LOCATIONS ARE ~~DIAGRAMMATIC~~ DIAGRAPHIC. PEDESTRIAN SIGNALS AS PER SECTION 10.0. EXACT LOCATIONS TO BE DETERMINED BY ~~ENGINEER~~ PROFESSIONAL OF RECORD. CONCRETE AS PER SECTION 11.0.
6. CONCRETE AS PER SECTION 11.0.
7. LANDSCAPING AS PER SECTION 14.0.

CITY OF NANAIMO
THE HARBOUR CITY

CURB RAMPS
TYPE C - CONSTRAINED

Scale:	NTS
Created:	OCT 2019
Rev Date:	~~MAY 2020~~
Dwg No:	CS-15

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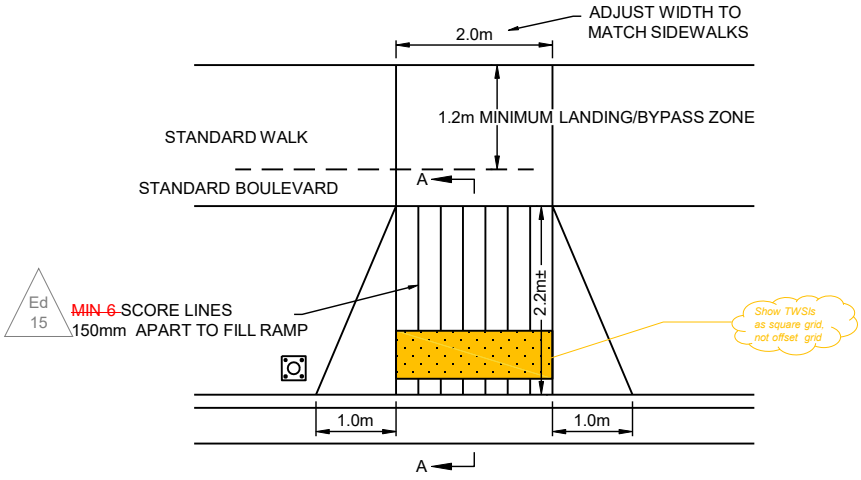

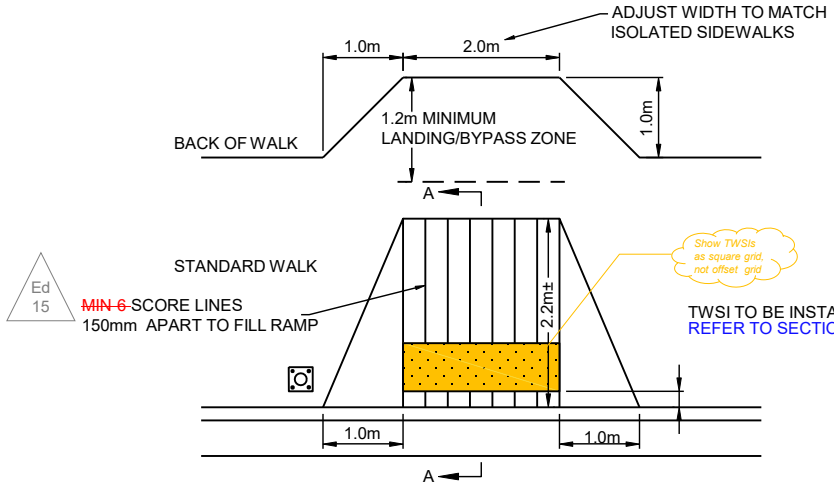

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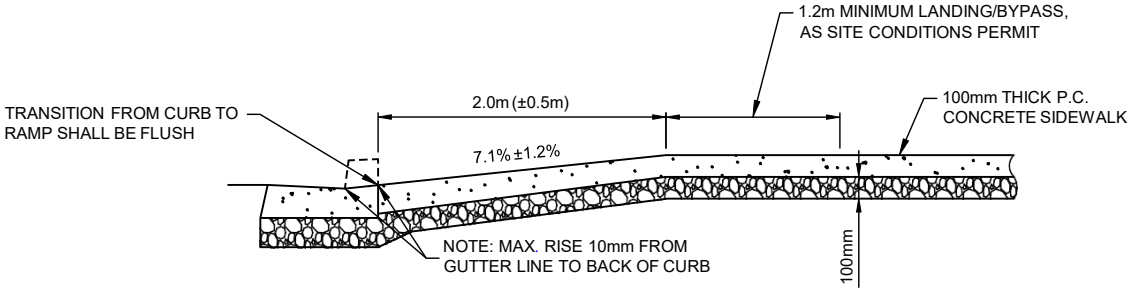
TWSI TO BE INSTALLED ~~0.2m~~ 200mm FROM CURB.
REFER TO SECTION 8.10.



SECTION A-A

NOTES:

Ed 15
1. PEDESTRIAN SIDEWALK RAMP DIMENSIONS ~~SHALL BE DETERMINED BY THE ENGINEER~~ AS PER DESIGN BY PROFESSIONAL OF RECORD.

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2. TOOLED LINES ARE ~~TO BE~~ CENTERED IN THE CROSSWALK AND ~~ARE TO~~ POINT IN DIRECTION OF THE RECEIVING CURB RAMP.
3. INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK. CATCH BASINS ARE NOT PERMITTED IN ~~CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF~~ CROSSWALK.
4. ALL TWSIs TO BE DESIGNED AND INSTALLED AS PER SECTION 8.0.

Ed 15
5. POLE LOCATIONS ARE ~~DIAGRAMMATIC~~ DIAGRAPHIC. PEDESTRIAN SIGNALS AS PER SECTION 10.0. EXACT LOCATIONS TO BE DETERMINED BY ~~ENGINEER~~ PROFESSIONAL OF RECORD.

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6.24.2020

CITY OF NANAIMO
THE HARBOUR CITY

CURB RAMPS
TYPE M - MIDBLOCK

Scale:	NTS
Created:	OCT 2019
Rev Date:	~~MAY 2020~~
Dwg No:	CS-16

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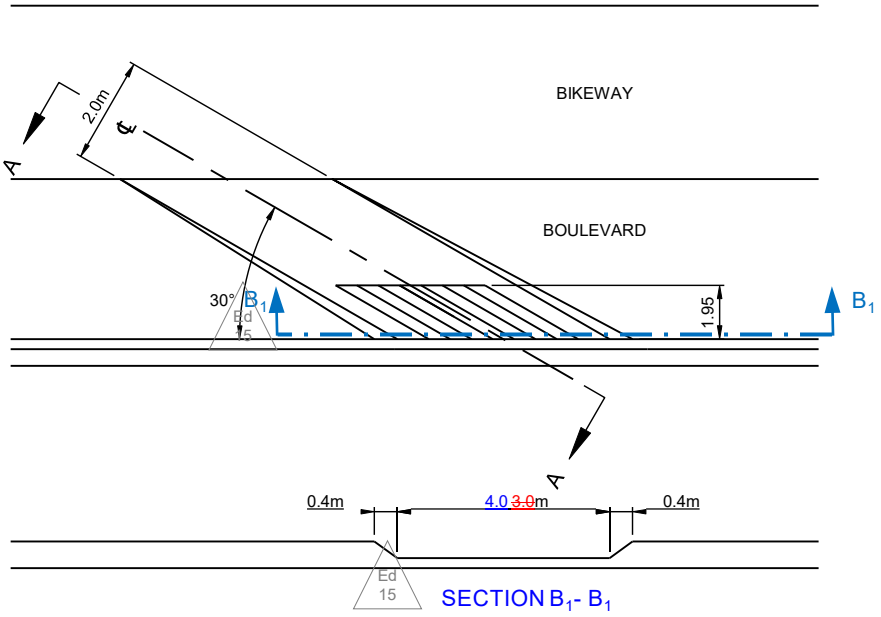
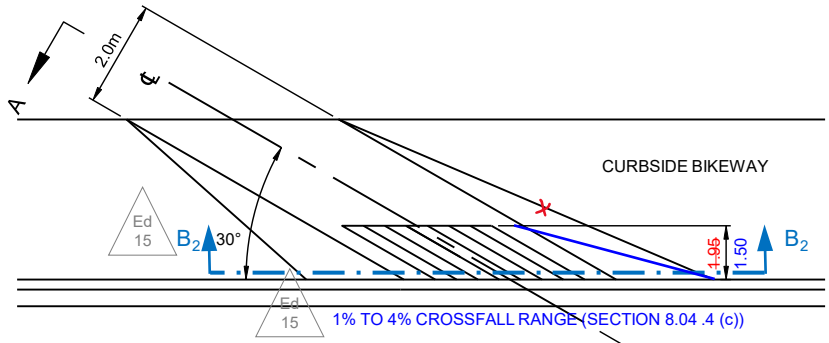
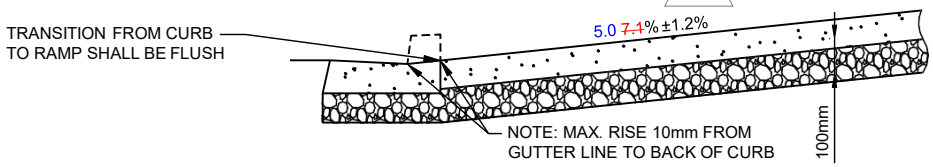


SECTION B_1- B_1



SECTION B_2- B_2



SECTION A-A

NOTES:

1. BIKEWAY SLIP RAMP DIMENSIONS SHALL BE DETERMINED BY THE ~~ENGINEER~~ PROFESSIONAL OF RECORD.
2. INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK. CATCH BASINS ARE NOT PERMITTED IN ~~CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF~~ CROSSWALK.

CITY OF NANAIMO
THE HARBOUR CITY

CURB RAMPS
TYPE B - BIKEWAY

Scale:	NTS
Created:	OCT 2019
Rev Date:	~~MAY 2020~~
Dwg No:	CS-17

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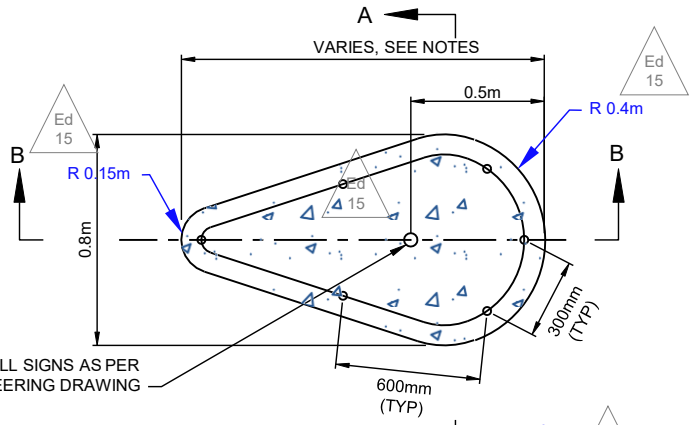
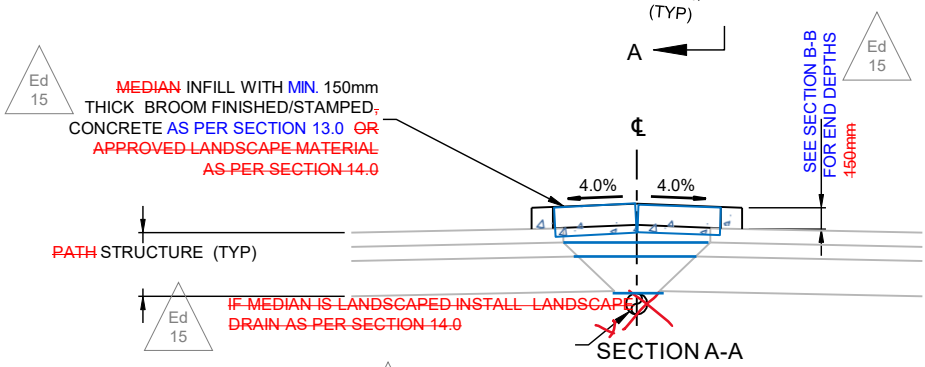
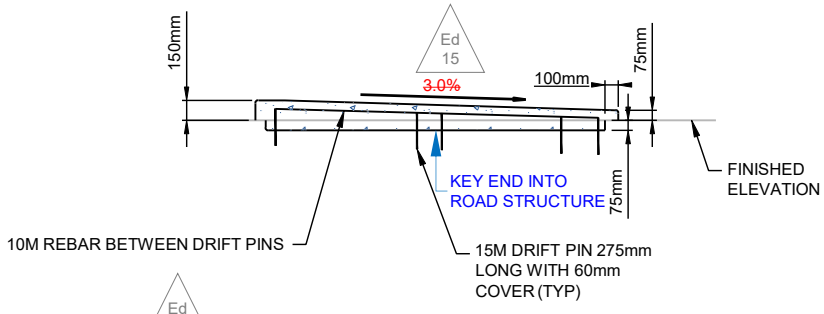




SECTION A-A

~~MULTI-USE PATH~~ SPLITTER ISLAND DETAILS

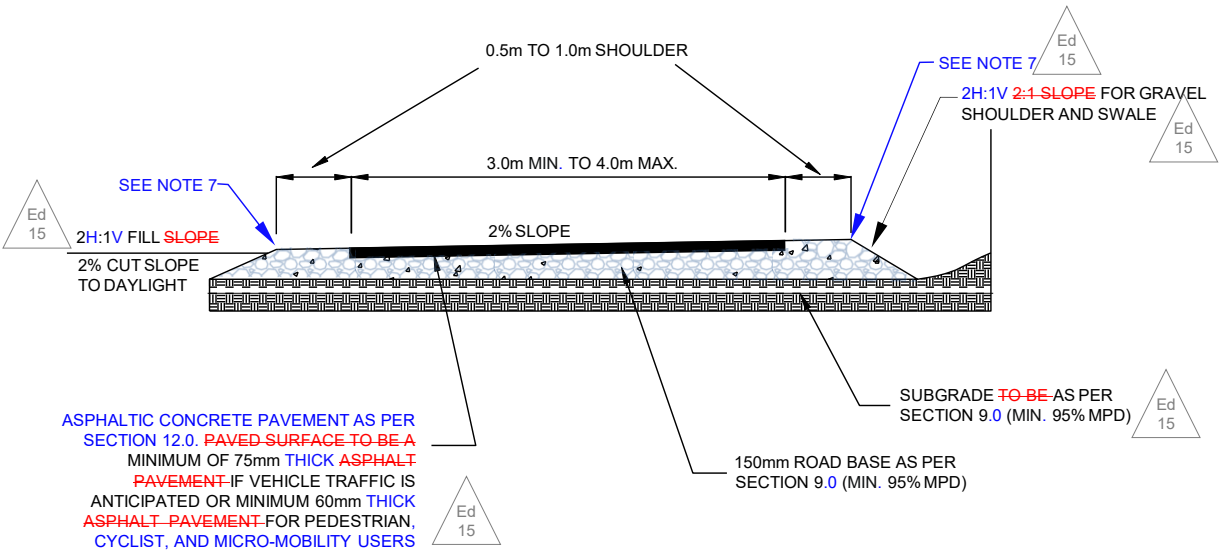


SECTION B-B

~~MULTI-USE PATH~~ SPLITTER ISLAND END TREATMENT DETAILS

NOTES:

1. CONCRETE AND REINFORCEMENT REQUIREMENTS AS PER SECTION 11.0.
2. CONCRETE SURFACE TREATMENT AS PER SECTION 13.0.
3. PAVED ROADWAY SURFACE PER SECTION 9.0 BASED ON STREET CLASSIFICATION. IN EXISTING CONDITIONS, THE DEPTHS NEED TO BE VERIFIED.
4. LENGTH MAY VARY DEPENDING ON LANE WIDTH, LANE ALIGNMENT AND OPERATING SPEEDS. TYPICALLY, THE TAPER LENGTH IS BETWEEN 10:1 TO 15:1.
5. THIS STANDARD MAY BE USED IN THE ROADWAY FOR TRAFFIC CALMING PURPOSES AT DIRECTIONS OF CITY ENGINEER. REFER TO ENGINEERING DRAWING FOR DIMENSIONS AND SITE-SPECIFIC INSTALLATIONS.



NOTES:

1. VEGETATION CLEARANCE SHALL BE IS A MINIMUM VERTICAL CLEARANCE OF 2.5m 3.0m AND A MINIMUM 1.0 0.5m HORIZONTAL CLEARANCE.
2. MAXIMUM TRAIL LONGITUDINAL GRADES:
   - 3% SUSTAINED GRADE
   - 5% GRADE FOR DISTANCES 30m OR LESS
   - 10% GRADE FOR DISTANCES 15m OR LESS
   - STAIRS PERMITTED ONLY WITH APPROVAL FROM CITY ENGINEER.
3. MINIMIZE HORIZONTAL CURVES AND ENSURE ADEQUATE SITE LINES ON CORNERS FOR CYCLIST. REFER TO BICYCLE FACILITY DESIGN GUIDELINES (2.3 - 2.4).
4. RESIDENTIAL BUFFER SHALL BE IS 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 8.0.
7. LIGHTING AS PER SECTION 10.0. LIGHTING REQUIREMENTS ARE TO BE DETERMINED BY A PROFESSIONAL OF RECORD.
8. HANDRAILS OR FENCING MAY BE NEEDED AS PER SECTION 8.0.
9. STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. DESIGN AS PER SECTION 7.0.

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CITY OF NANAIMO
THE HARBOUR CITY

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TRAILS AND MULTI-USE PATHS
(HARD SURFACE)

Scale:	NTS
Created:	JUN 2012
Rev Date:	MAY 2020
Dwg No:	CS-21

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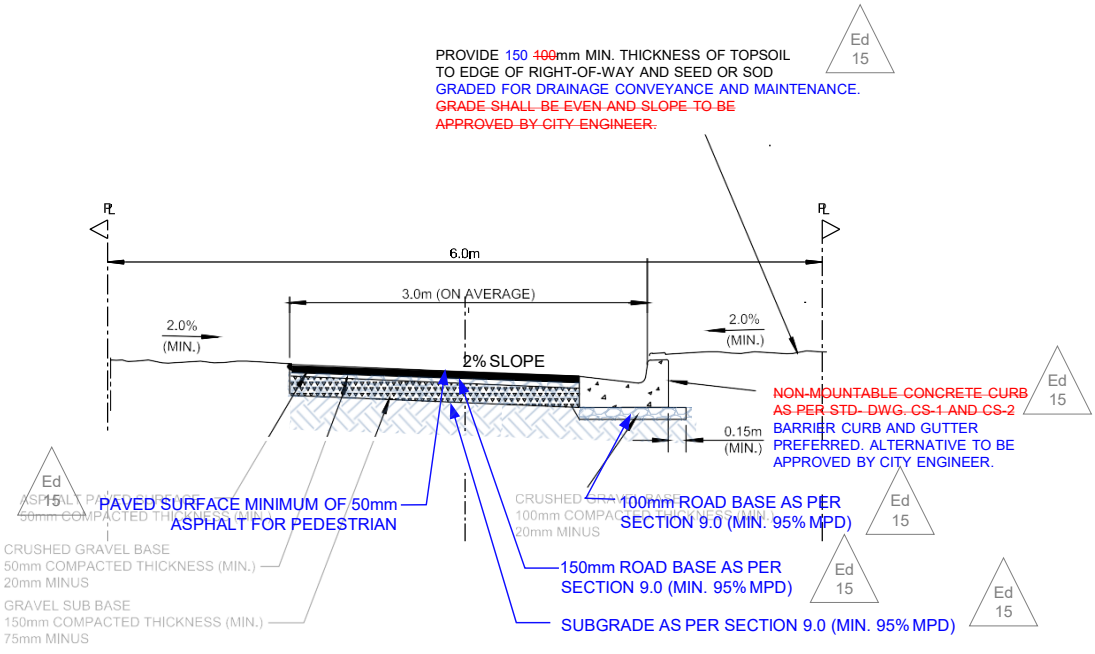


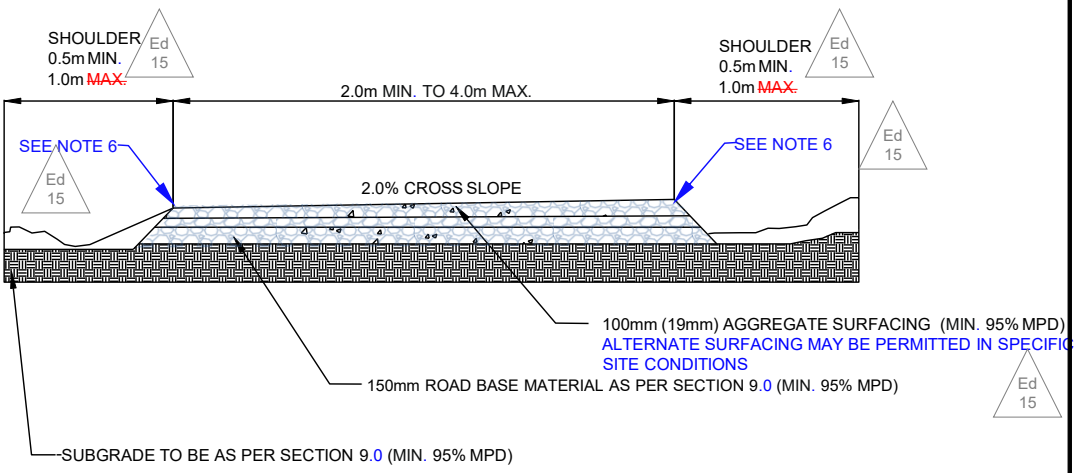
NOTES:

1. WALKWAY SURFACE TREATMENT – TO MATCH PARK AND NEARBY TRAILS, TYPICALLY ASPHALT PAVED SURFACE.
2. WALKWAY SURFACE WIDTH ~~TO BE 2.0~~ IS 3.0m ON AVERAGE IN 6.0m ~~ROW~~ RIGHT-OF-WAY.
3. WALKWAY SURFACE CROSS SLOPE ~~SHALL BE~~ OF 2%.
4. BARRIER CURB IS PREFERRED. THE OPTION FOR 2H:1V CUT/FILL SLOPE FOR GRAVEL SHOULDERS AND SWALE, IS TO BE APPROVED BY CITY ENGINEER.
5. SHOULDERS/CLEAR ZONES ~~SHALL BE~~ IS A MINIMUM 0.5m WIDE TO A MAXIMUM 0.75m WIDE WITH LANDSCAPE OR BUFFER ZONE OF 1.25m
6. VEGETATION CLEARANCE ~~SHALL BE~~ IS A MINIMUM VERTICAL CLEARANCE OF 2.5m AND A MINIMUM 0.5m HORIZONTAL CLEARANCE.
7. MAXIMUM ~~TRAIL~~ LONGITUDINAL GRADES:
   - 3% SUSTAINED GRADE
   - 5% GRADE FOR DISTANCES 30m OR LESS
   - 10% GRADE FOR DISTANCES 15m OR LESS
   - ~~PREFERRED MAXIMUM 10%~~
   - ~~MAXIMUM 30%~~
8. ~~MINIMIZE HORIZONTAL CURVES AND~~ ENSURE ADEQUATE SITE LINES ON CORNERS.
9. RESIDENTIAL BUFFER IS THE 1.25m LANDSCAPE/BUFFER ZONE.
10. CONCRETE AS PER SECTION 11.0.
11. LANDSCAPING AS PER SECTION 14.0.
12. ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.
13. BARRIER CURB AND GUTTER AS PER STANDARD DRAWING CS-1.
14. HANDRAILS OR FENCING MAY BE NEEDED AS PER SECTION 8.0.
15. STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. CATCH BASIN MAY BE REQUIRED.

CITY OF NANAIMO
THE HARBOUR CITY

TRAILS AND MULTI-USE PATHS
PEDESTRIAN PATHWAY

Scale:	N.T.S.
Created:	APR 2012
Rev Date:	~~NOV 2016~~
Dwg No:	~~CS-10C~~ CS-21A



NOTES:

1. VEGETATION CLEARANCE SHALL BE A MINIMUM VERTICAL CLEARANCE OF ~~2.5m~~ 3.0m AND A MINIMUM 0.5m HORIZONTAL CLEARANCE.
2. MAXIMUM ~~TRAIL~~ LONGITUDINAL GRADES:
   - 3% SUSTAINED GRADE
   - 5% GRADE FOR DISTANCES 30m OR LESS
   - 10% GRADE FOR DISTANCES 15m OR LESS
   - SOME STAIRS ALLOWED
3. ENSURE ADEQUATE SITE LINES ON CORNERS FOR CYCLIST. ~~REFER TO BICYCLE FACILITY DESIGN GUIDELINES (2.3 - 2.4).~~
4. RESIDENTIAL BUFFER ~~SHALL BE~~ IS A MINIMUM OF 2.0m ~~TO A MAXIMUM 5.0m~~.

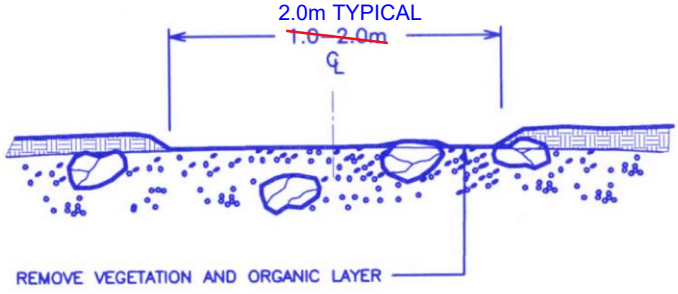
~~5. REFER TO CITY OF NANAIMO - TRAIL PLAN - DESIGN GUIDELINES (MAY 2007) FOR ADDITIONAL DESIGN INFORMATION.~~

5. LIGHTING AS PER SECTION 10.0. LIGHTING REQUIREMENTS ARE TO BE DETERMINED BY A PROFESSIONAL OF RECORD.
6. HANDRAILS OR FENCING MAY BE NEEDED AS PER SECTION 8.0. ~~8.16.1(a).~~
7. STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. DESIGN AS PER SECTION 7.0.

CITY OF NANAIMO
THE HARBOUR CITY

TRAILS AND MULTI-USE PATHS
~~(~~SOFT SURFACE~~)~~

Scale:	NTS
Created:	JUN 2012
Rev Date:	~~MAY 2020~~
Dwg No:	CS-22



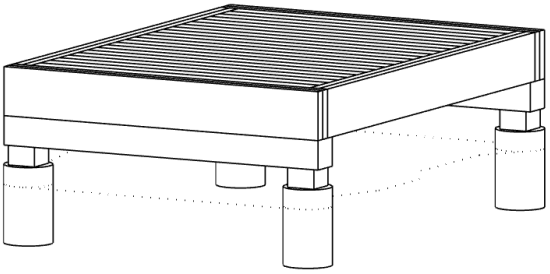
NOTES:

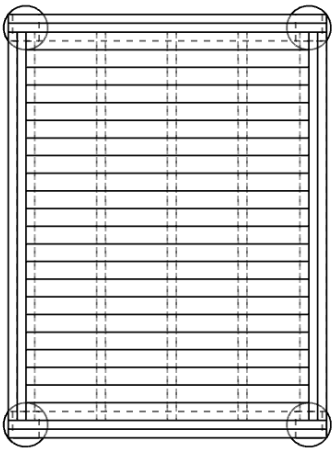
1. USE OF THE STANDARD IS SITE SPECIFIC AND REQUIRES APPROVAL BY THE CITY. IT IS A LOW IMPACT STANDARD FOR SPECIFIC LOCATIONS WHERE DIFFICULT TERRAIN AND/OR SENSITIVE FEATURES ARE PRESENT.
2. SURFACE IS NATIVE SOIL MIXED WITH CRUSH. MIX IS SITE SPECIFIC AND DESIGN MAY BE REQUESTED BY CITY ENGINEER.
3. VEGETATION CLEARANCE SHALL BE A MINIMUM VERTICAL CLEARANCE OF ~~2.0m~~ 2.5m AND A MINIMUM 0.5m HORIZONTAL CLEARANCE. Ed 15
4. TRAIL LONGITUDINAL GRADES TO SUIT TERRAIN UPTO MAXIMUM 30% SLOPE. SOME STAIRS ALLOWED. BOARDWALK MAY BE REQURED IN SELECT AREAS.
5. ENSURE ADEQUATE SITE LINES ON CORNERS.
6. RESIDENTIAL BUFFER IS A MINIMUM OF 10.0m.
7. LIGHTING AS PER SECTION 10.0. LIGHTING REQUIREMENTS ARE TO BE DETERMINED BY A PROFESSIONAL OF RECORD. Ed 15
8. HANDRAILS OR FENCING MAY BE NEEDED AS PER SECTION 8.0. ~~8.16.1(a).~~
9. STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. DESIGN AS PER SECTION 7.0.

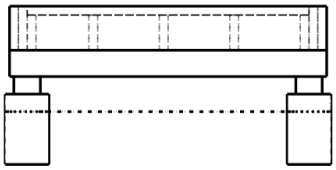
CITY OF NANAIMO
THE HARBOUR CITY

TRAILS AND MULTI-USE PATHS
NATURE
Ed 15

Scale:	N.T.S.
Created:	2025-05-30
Rev Date:	
Dwg No:	CS-22A







NOTES:

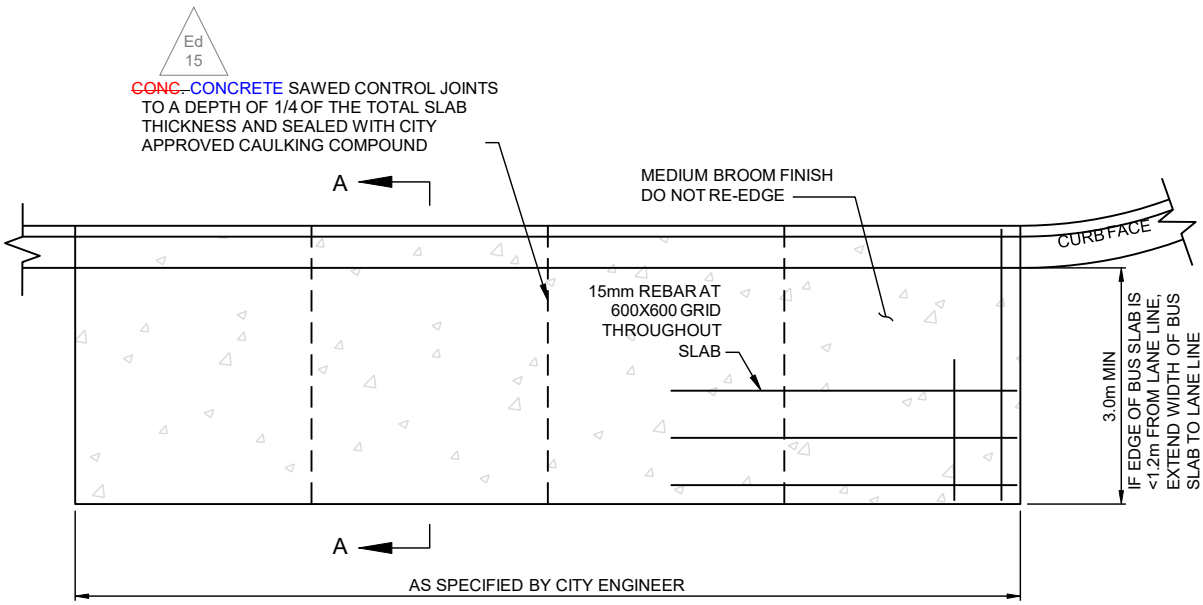
1. USE OF THE STANDARD IS SITE SPECIFIC AND REQUIRES APPROVAL BY THE CITY PARKS RECREATION AND CULTURE. IT IS A LOW IMPACT STANDARD FOR SPECIFIC LOCATIONS WHERE DIFFICULT TERRAIN AND/OR SENSITIVE FEATURES ARE PRESENT. STRUCTURE TO BE KEPT AS LOW TO THE GROUND AS POSSIBLE.
2. CONCRETE COLUMNS ARE 250 mm (10 in) DIAMETER EXTENDING 300 mm (12 in) INTO NATIVE GROUND, OR LEVELED AND SECURED PIER BLOCKS. GALVANIZED SADDLE EMBEDDED INTO CONCRETE AT BASE OF EACH POST OR SET INTO CONCRETE PIER BLOCKS.
3. POSTS ARE 150 x 150 mm (6 x 6 in) PRESSURE TREATED YELLOW CEDAR
4. BEAMS ARE MINIMUM 150 x 150 mm (6 x 6 in)) PRESSURE TREATED DIMENSION LUMBER. TYPICAL LENGTH IS 1800 mm (6 ft). LONGER SPANS MAY REQUIRE LARGER DIMENSIONAL LUMBER.
5. JOISTS ARE MINIMUM 50 x 200 mm (2 x 8 in) PRESSURE TREATED DIMENSION LUMBER. SPACED AT MINIMUM 400 mm (16 in) ON CENTER. TYPICAL LENGTH IS 2435 mm (8 ft). LONGER SPANS MAY REQUIRE DIMENSIONAL LUMBER. CROSS BRACING MAYBE REQUIRED.
6. HEADERS ARE DOUBLE 50 mm X 250 mm (2 x 10 in) PRESSURE TREATED DIMENSION LUMBER.
7. DECKING IS PRESSURE TREATED DIMENSION LUMBER.
8. NO NAILS. USE 75 mm (3 in) EXTERIOR SCREWS.
9. RAILINGS ARE REQUIRED WHEN ELEVATION DIFFERENCE FROM GROUND TO DECK HEIGHT ABOVE 0.6 m (2 ft).
10. FIBERGLASS OR METAL MATERIALS MAY BE CONSIDERED AS SUBSTITUTIONS IN CERTAIN LOCATIONS AND CONDITIONS.

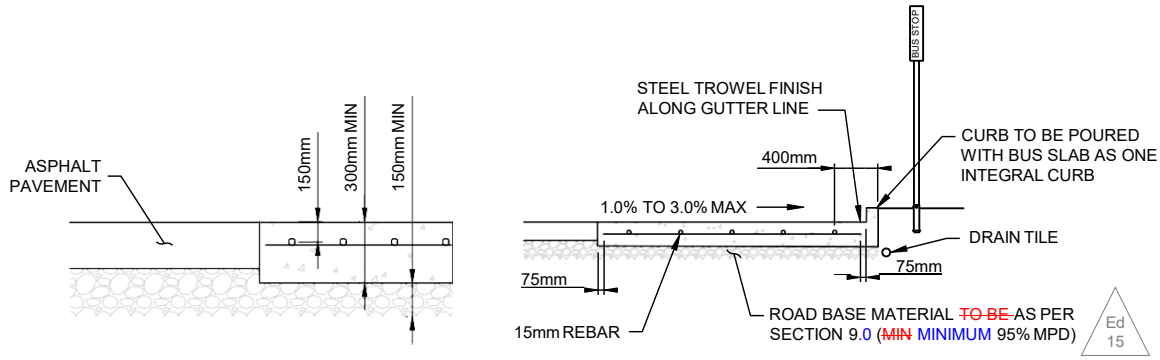
CITY OF NANAIMO
THE HARBOUR CITY

TRAILS AND MULTI-USE PATHS
BOARDWALK

Scale:	NTS
Created:	AUG 2025
Rev Date:	NOV 2025
Dwg No:	CS-22B

Ed 15





SECTION A-A

Ed 15

NOTES:

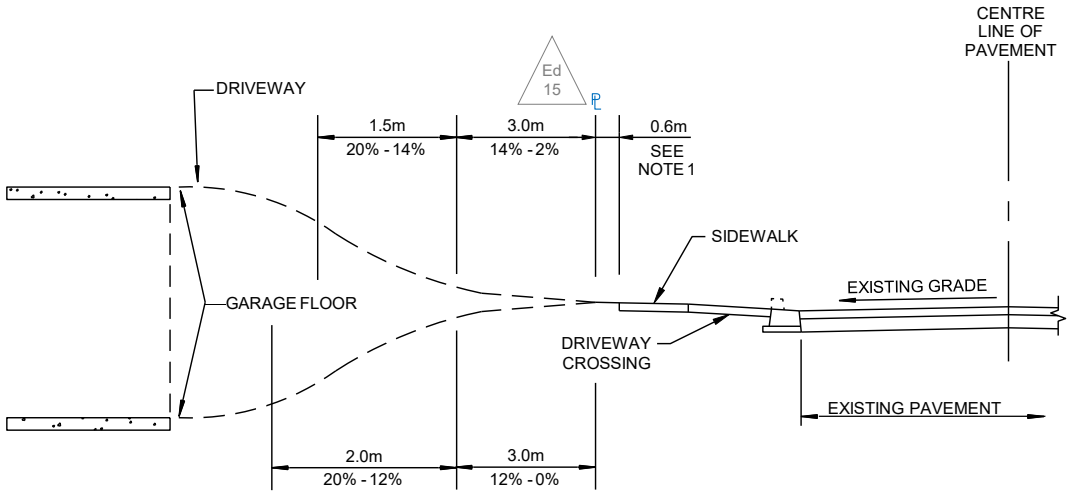
1. THE BUS SLAB SHOULD BE INSTALLED AS A CONTINUOUS POUR. IF THE BUS SLAB IS INSTALLED IN MORE THAN ONE ~~POUR NO MORE THAN TWO SEPARATE POURS,~~ THEN THE EDGE OF THE POUR MUST BE KEYED OR REBAR INSERTS USED TO TIE BOTH PADS TOGETHER.
2. USE 15mm REBAR WITH MINIMUM 75mm COVER.
3. PLACE REBAR MAT AT 150mm BELOW TOP OF CONCRETE.
4. MILL AND RE-CONTOUR ASPHALT ~~AC~~ TO MATCH CONCRETE BUS SLAB CROSS FALL.

CITY OF NANAIMO
THE HARBOUR CITY

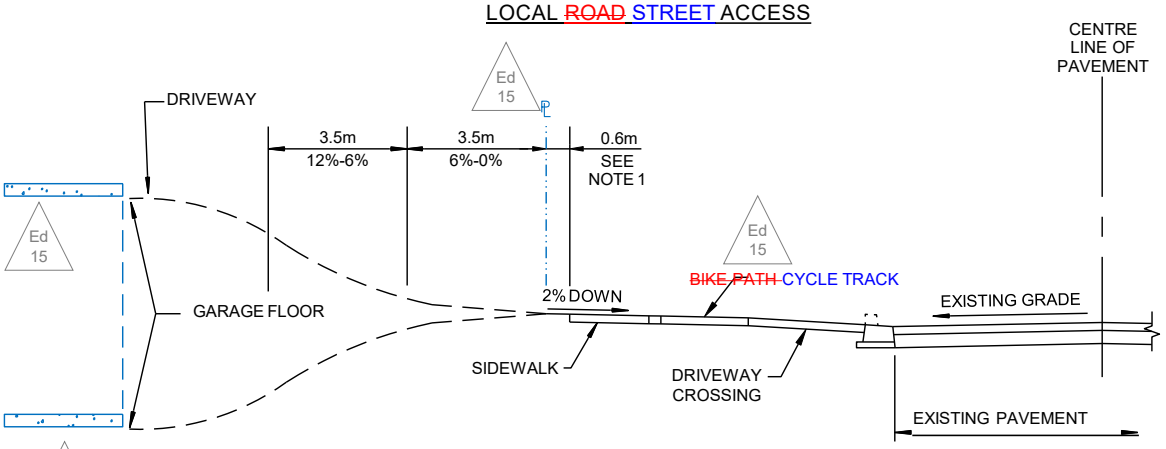
TRANSIT FACILITIES
REINFORCED BUS SLAB

Scale:	NTS
Created:	OCT 2019
Rev Date:	~~MAY 2020~~
Dwg No:	CS-23

Ed 15



LOCAL ~~ROAD~~ STREET ACCESS



COLLECTOR OR ARTERIAL ~~ROAD~~ STREET ACCESS

Ed 15

NOTES:

Ed 15

1. THE RISE OR FALL OF THE DRIVEWAY SHALL BEGIN BEHIND THE SIDEWALK TOWARDS THE PROPERTY.
2. ~~SEE SECTION 8.04.4A FOR~~ MAXIMUM SLOPES FOR DRIVEWAY EDGES AS PER SECTION 8.04.4A.

Ed 15

3. IN THE CASE OF SUBDIVISION WHERE A DRIVEWAY WILL PROVIDE ACCESS TO THREE OR MORE PARCELS, THE DRIVEWAY SHALL BE DESIGNED BY A ~~PROFESSIONAL ENGINEER~~ PROFESSIONAL OF RECORD~~:~~ AS PER CITY OF NANAIMO GUIDELINES FOR THE APPROVAL, THE DESIGN AND THE CONSTRUCTION OF PRIVATELY OWNED COMMON ACCESS DRIVEWAYS.
4. PROPERTIES FRONTING ON COLLECTOR OR ARTERIAL STREETS SHOULD PROVIDE ACCESS ON THE LOWEST CLASSIFICATION OF STREET AVAILABLE.

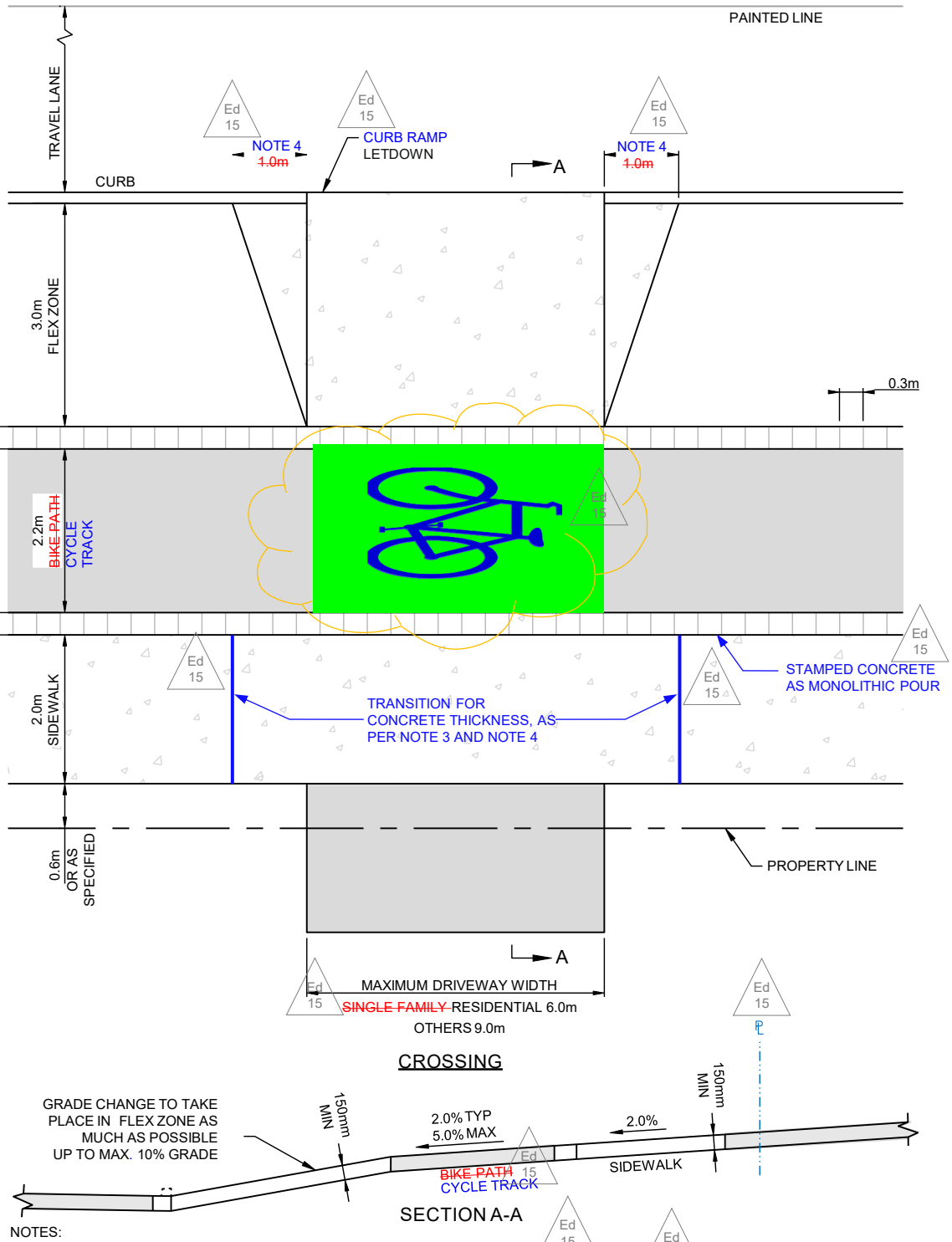
CITY OF NANAIMO
THE HARBOUR CITY

DRIVEWAYS AND CROSSINGS GRADES

Scale:	NTS
Created:	MAY 2013
Rev Date:	~~MAY 2020~~
Dwg No:	CS-24

Ed 15

Ed 15



NOTES:

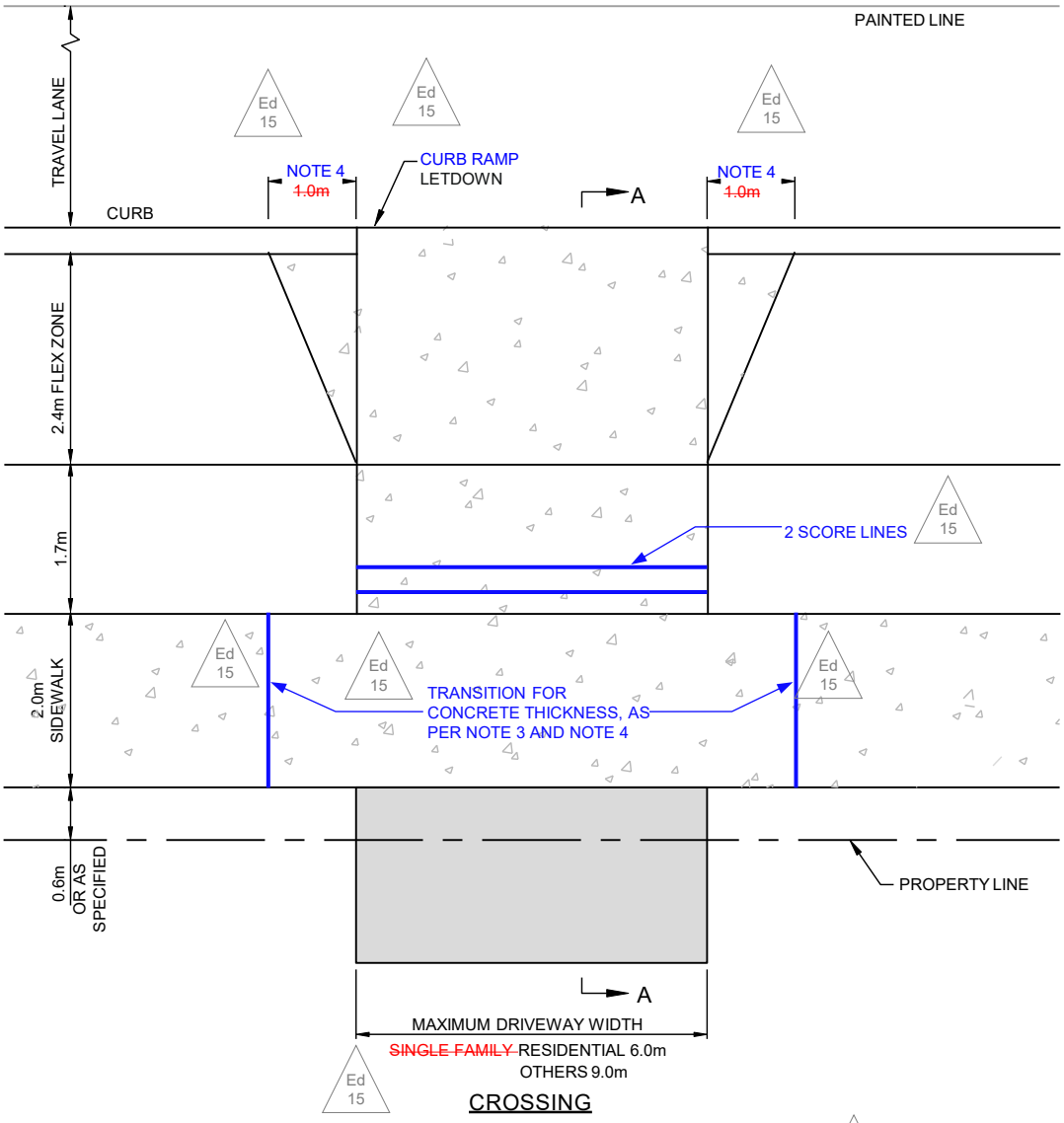
1. USE OF TWSI's TO BE DETERMINED BY ~~ENGINEER~~ PROFESSIONAL OF RECORD.
2. ~~FOR~~ CONCRETE FINISHING DETAILS ~~SEE~~ AS PER STANDARD DRAWING CS-8 ~~DWG. CS-7~~.
3. CONCRETE SURFACES TO BE A MINIMUM THICKNESS OF 100mm AND 150mm WHERE VEHICLE TRAFFIC IS ANTICIPATED.
4. FLARE WIDTH IS TYPICALLY 1m AND INCREASED TO 2m WHEN FLEX ZONE IS LESS THAN 1m.

CITY OF NANAIMO
THE HARBOUR CITY

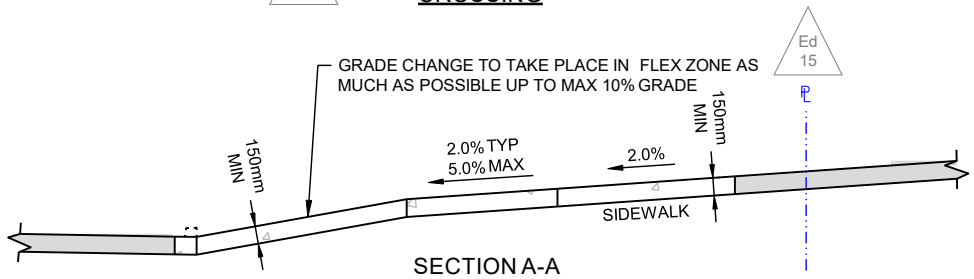
DRIVEWAYS AND CROSSINGS
TYPICAL URBAN COLLECTOR

Scale: NTS
Created: OCT 2019
Rev Date: ~~MAY 2020~~
Dwg No: CS-25

Ed 15



CROSSING



SECTION A-A

NOTES:

1. USE OF TWSI's TO BE DETERMINED BY ~~ENGINEER~~ PROFESSIONAL OF RECORD.
2. ~~FOR~~ CONCRETE FINISHING DETAILS ~~SEE~~ AS PER STANDARD DRAWING CS-8 ~~SEE DWG. CS-7~~.
3. CONCRETE SURFACES TO BE A MINIMUM THICKNESS OF 100mm AND 150mm WHERE VEHICLE TRAFFIC IS ANTICIPATED.
4. FLARE WIDTH IS TYPICALLY 1m AND INCREASED TO 2m WHEN FLEX ZONE IS LESS THAN 1m.

CITY OF NANAIMO
THE HARBOUR CITY

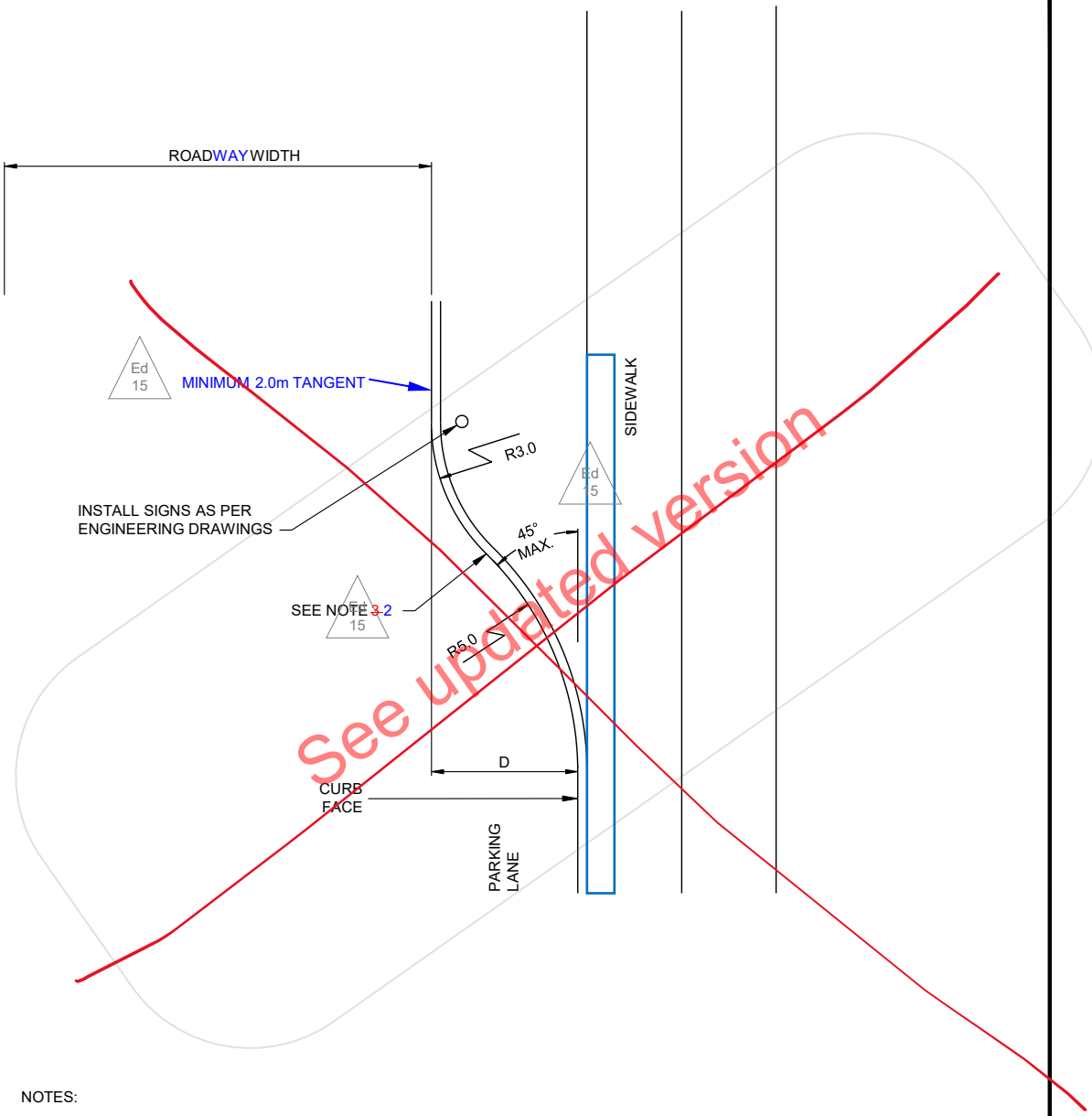
DRIVEWAYS AND CROSSINGS
TYPICAL URBAN LOCAL

Scale: NTS
Created: OCT 2019
Rev Date: ~~MAY 2020~~
Dwg No: CS-26

Ed 15

6.24.2020

G:\INFRASTRUCTURE PLANNING\STANDARDS & PRODUCTS\MOESS\EDITION NO13 MAY 2020\2020-05-01 FINAL MOESS EDITION NO13 DOCUMENT\2020 DRAWING SECTIONS\SECTION 8 DWGS\CS-26



NOTES:

1. "D"=DEPTH OF CURB EXTENSION SHOULD BE SIMILAR TO THE WIDTH OF THE PARKING LANE (TYPICALLY. 2.4m RESIDENTIAL OR 3.0m INDUSTRIAL)
2. INCLUDE A TANGENT AT 45° TO THE CURB FACE BETWEEN RADII WHERE "D" IS GREATER THAN 2.4m.
3. ALL DIMENSIONS ARE IN ~~METERS~~ METRES UNLESS OTHERWISE NOTED.
4. BANDING/BUFFER OF WIDTH 0.45m STAMPED CONCRETE AS PER SECTION 13.0.

Ed 15

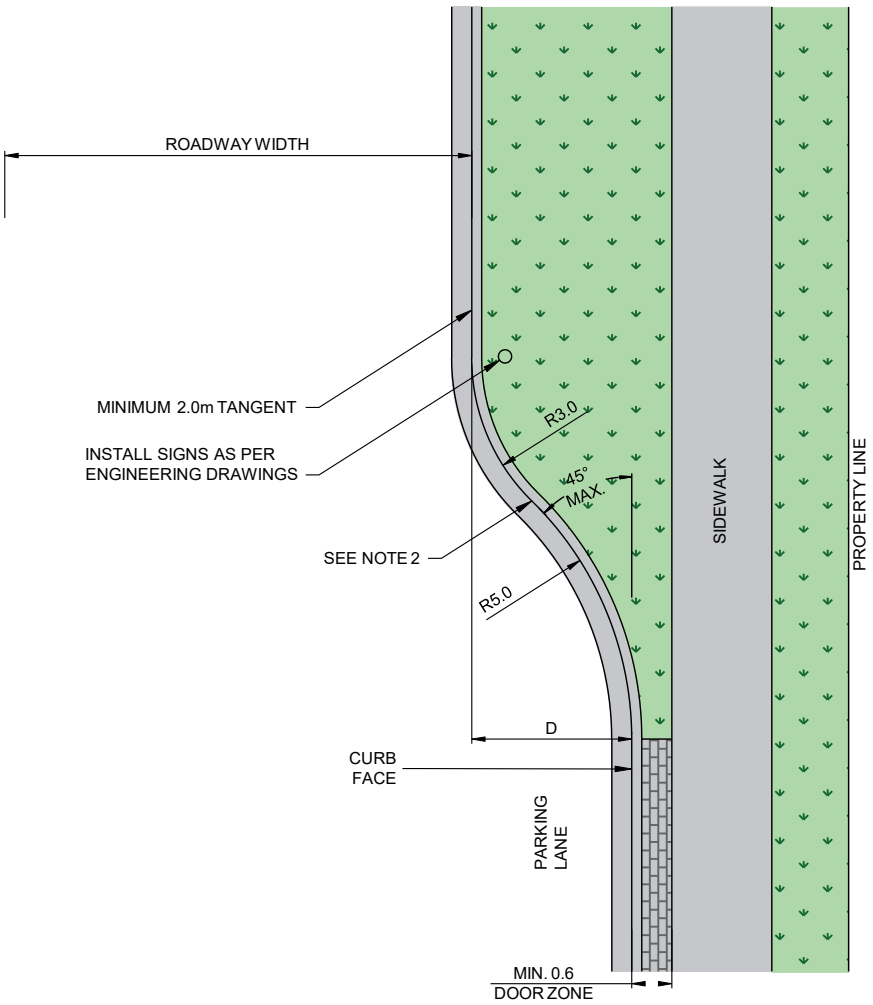
G:\INFRASTRUCTURE PLANNING\STANDARDS & PRODUCTS\MOESSEDITION NO13 MAY 2020\2020-05-01 FINAL MOESS EDITION NO13 DOCUMENT\2020 DRAWING SECTIONS\SECTION 8 DWGS\CS-27

3.18.2020

CITY OF NANAIMO
THE HARBOUR CITY

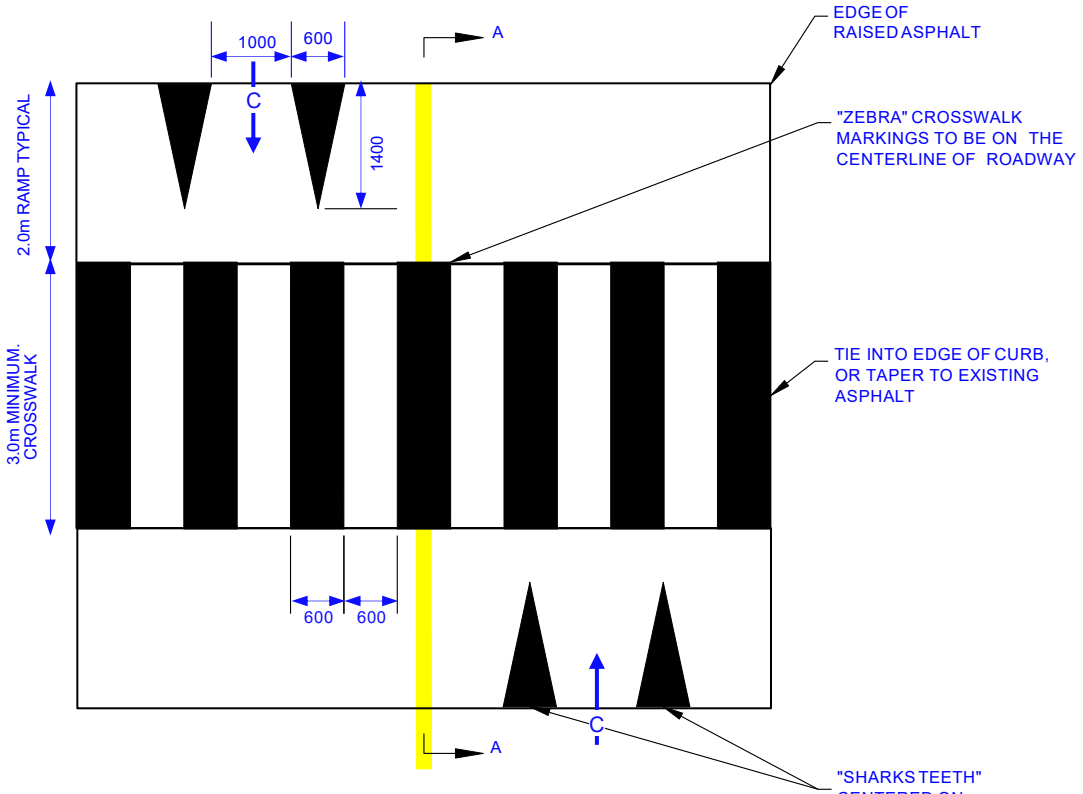
DRIVEWAYS AND CROSSINGS
CURB EXTENSION

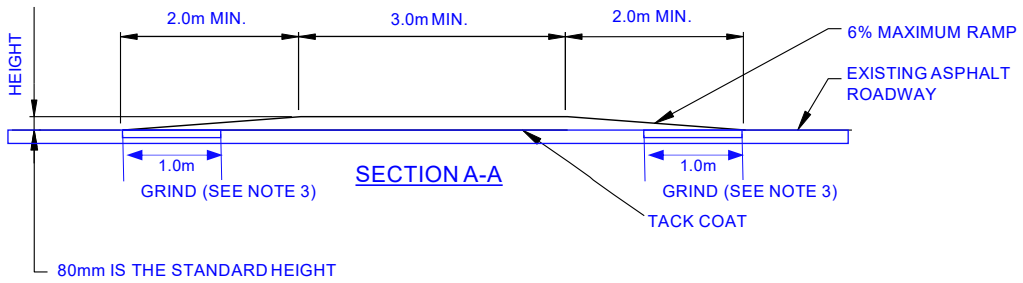
Scale:	NTS
Created:	APR 2012
Rev Date:	~~MAY 2020~~
Dwg No:	CS-27



NOTES:

1. "D"=DEPTH OF CURB EXTENSION SHOULD BE SIMILAR TO THE WIDTH OF THE PARKING LANE (TYPICALLY 2.4m RESIDENTIAL OR 3.0m INDUSTRIAL)
2. INCLUDE A TANGENT AT 45° TO THE CURB FACE BETWEEN RADII WHERE "D" IS GREATER THAN 2.4m.
3. BANDING, BUFFERS, OR POCKET PARKING DOOR ZONES TO USE COLOURED AND/OR STAMPED CONCRETE PER SECTION 13.0
4. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.





NOTE:

1. ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.
2. PAVEMENT MARKINGS AS PER SECTION 8.0. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC AS PER SECTION 8.0.
3. GRIND ASPHALT 40mm IF EXISTING ASPHALT THICKNESS IS 75mm OR GREATER, OTHERWISE SAW-CUT AND REMOVE EXISTING ASPHALT. GRIND FULL WIDTH OF ROADWAY.
4. WHERE SIDEWALKS DON'T EXIST, TAPER CROSSWALK ENDS TO WALKWAY GRADE AT MAX. 5% SLOPE.
5. STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. CATCH BASINS MAY BE REQUIRED.

G:\DESIGN\STANDARD DWGS - NON MOE\SS\RAISED CROSSWALK DETAIL

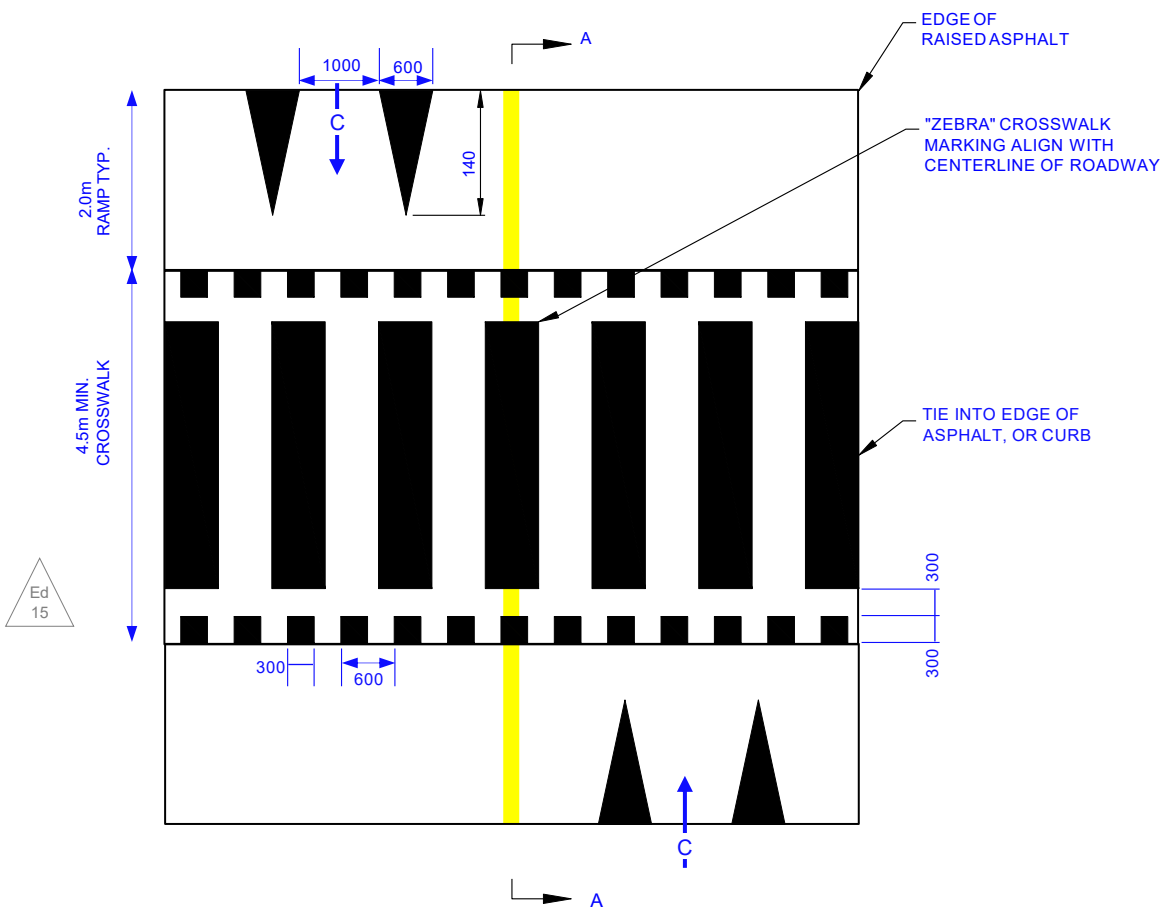
12.6.2023

CITY OF NANAIMO
THE HARBOUR CITY

DRIVEWAYS AND CROSSINGS
RAISED ASPHALT CROSSWALK PEDESTRIANS

Scale:	1:75
Drawn:	MjY
Date:	~~NOV 2023~~
Dwg No:	CS-28A

Ed 15



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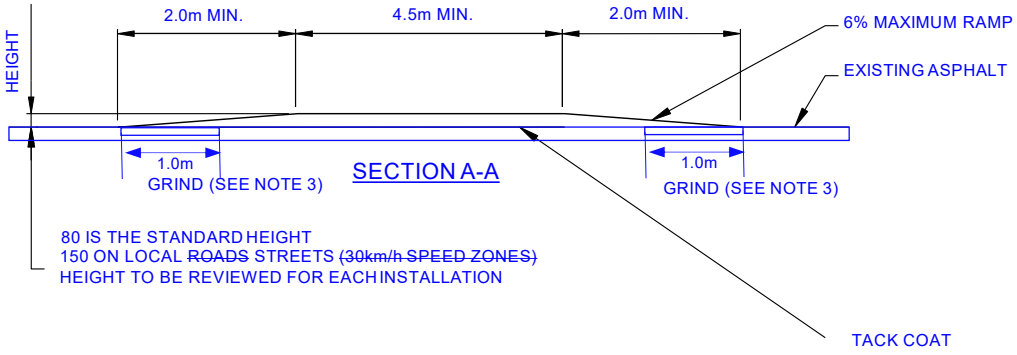

NOTE:

1. ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.
2. PAVEMENT MARKINGS AS PER SECTION 8.0. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC AS PER SECTION 8.0.
3. GRIND ASPHALT 40mm IF EXISTING ASPHALT THICKNESS IS 75mm OR GREATER, OTHERWISE SAW-CUT AND REMOVE EXISTING ASPHALT. GRIND FULL WIDTH OF ROADWAY.
4. WHERE SIDEWALKS DON'T EXIST, TAPER CROSSWALK ENDS TO WALKWAY GRADE AT MAX. 5% SLOPE.
5. STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. CATCH BASINS MAY BE REQUIRED.

G:\DESIGN\STANDARD DWGS - NON MOE\SS\RAISED CROSSWALK DETAIL

12.6.2023

CITY OF NANAIMO
THE HARBOUR CITY

TRAILS AND MULTI-USE PATHS
RAISED ASPHALT CROSSWALK

Scale:	1:75
Drawn:	MjY
Date:	~~NOV 2023~~
Dwg No:	CS-28B

Ed 15

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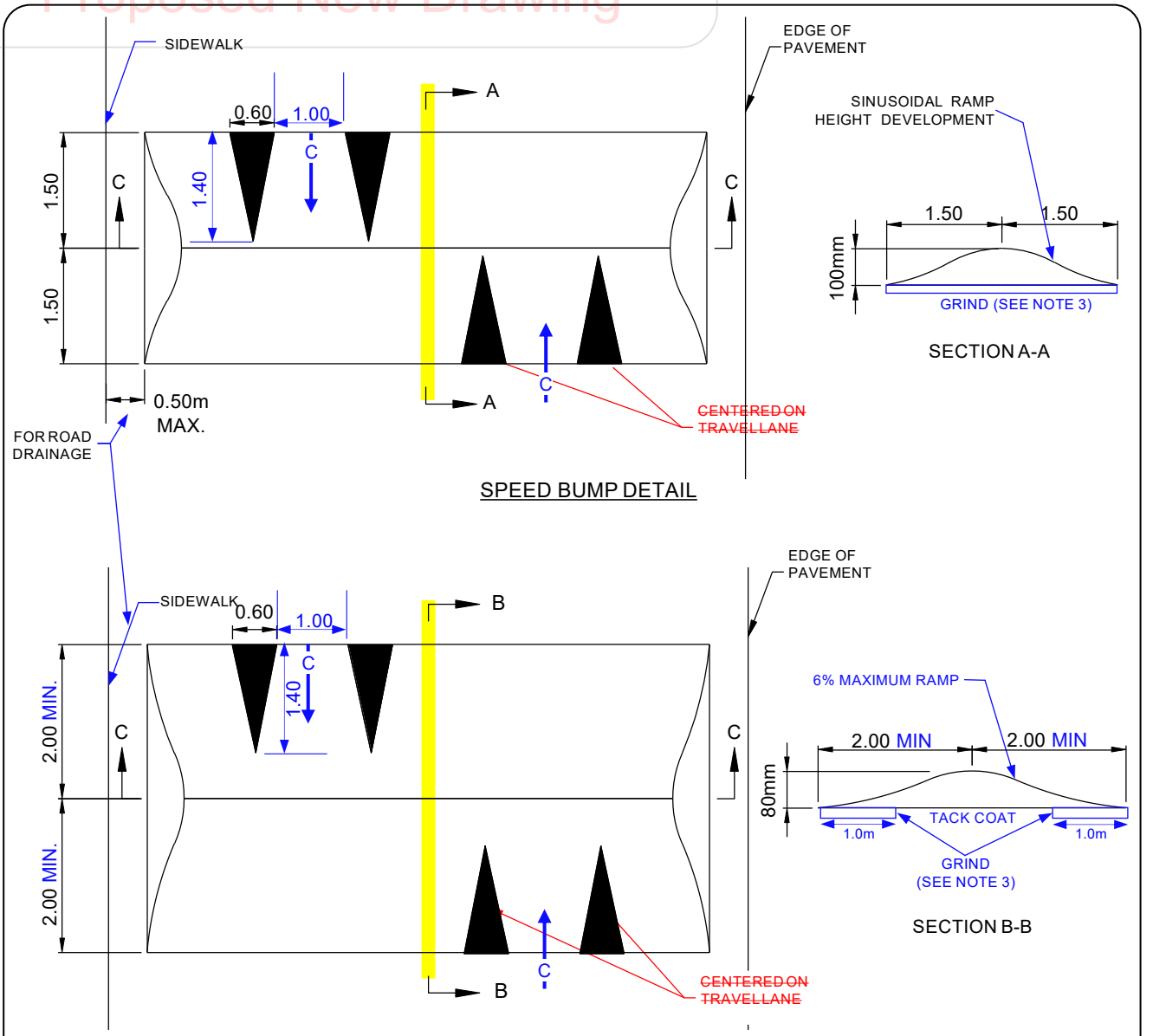
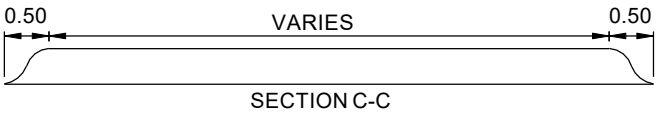


SPEED BUMP DETAIL

SPEED HUMP DETAIL



NOTES:

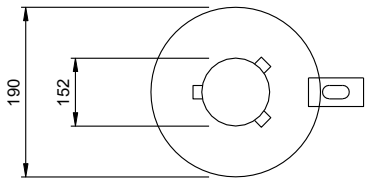
1. ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.
2. PAVEMENT MARKINGS AS PER SECTION 8.0. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC AS PER SECTION 8.0.
3. GRIND ASPHALT 40mm IF EXISTING ASPHALT THICKNESS IS 75mm OR GREATER, OTHERWISE SAW-CUT AND REMOVE EXISTING ASPHALT. GRIND FULL WIDTH OF ROADWAY.

CITY OF NANAIMO
THE HARBOUR CITY

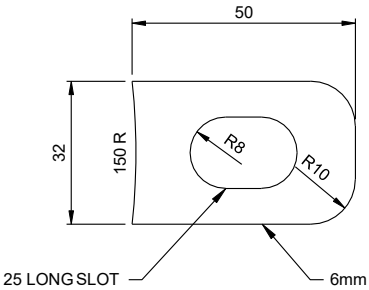
DRIVEWAYS AND CROSSINGS
SPEED HUMP AND SPEED BUMP DETAIL

Scale:	NTS
Created:	AUG 2022
Rev Date:	NOV 2025
Dwg No:	CS-29

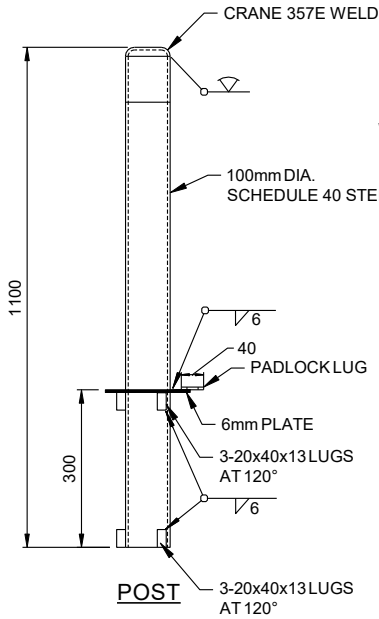
Ed 15



PLAN



LUGS FOR PADLOCK



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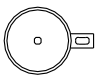

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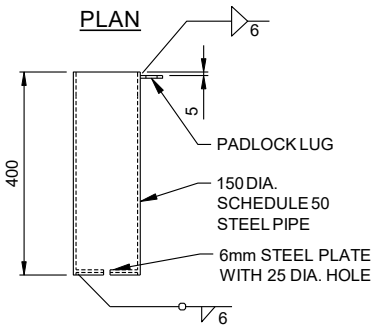

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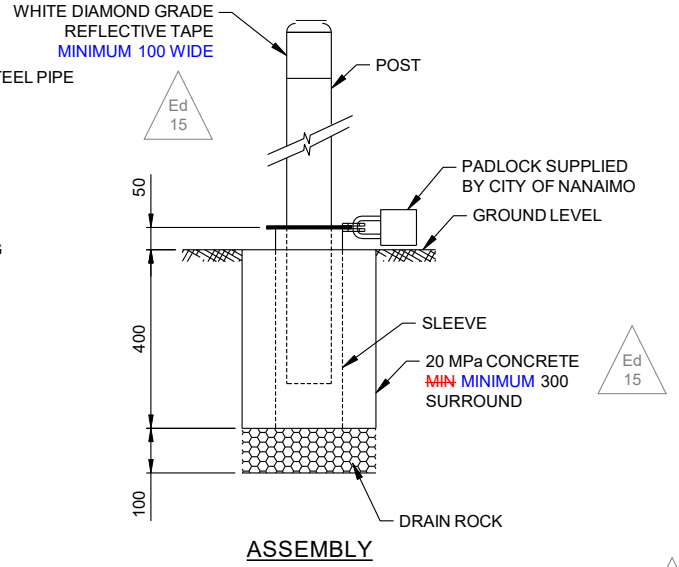

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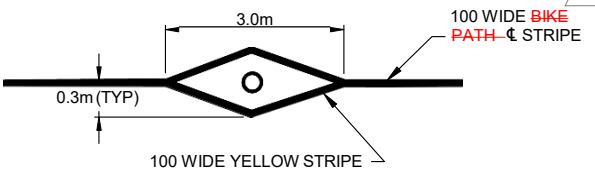


CENTRE BARRIER POST

PAVEMENT MARKING

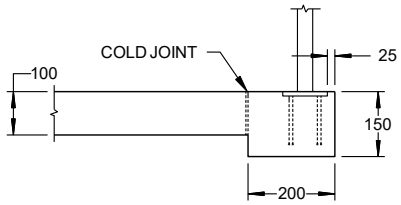
NOTES:

1. FOR USE ON MULTI-USE PATHWAYS, AND MULTI-USE TRAILS OR WHEN NECESSARY TO PREVENT VEHICLE ACCESS.
2. ALL STEEL TO BE BLACK POWDER COATED TO ASTM D7803.
3. PADLOCK TO BE INSTALLED IN THE DIRECTION OF THE ~~TRAIL~~ TRAVEL AND NOT ON THE SIDE BLOCKING THE THROUGH ZONE
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

CITY OF NANAIMO
THE HARBOUR CITY

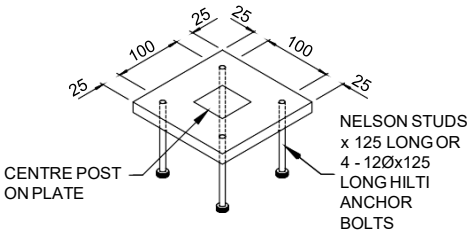
BOLLARDS
REMOVABLE BARRIER POST

Scale:	NTS
Created:	MAY 2001
Rev Date:	~~MAY 2020~~
Dwg No:	CS-30

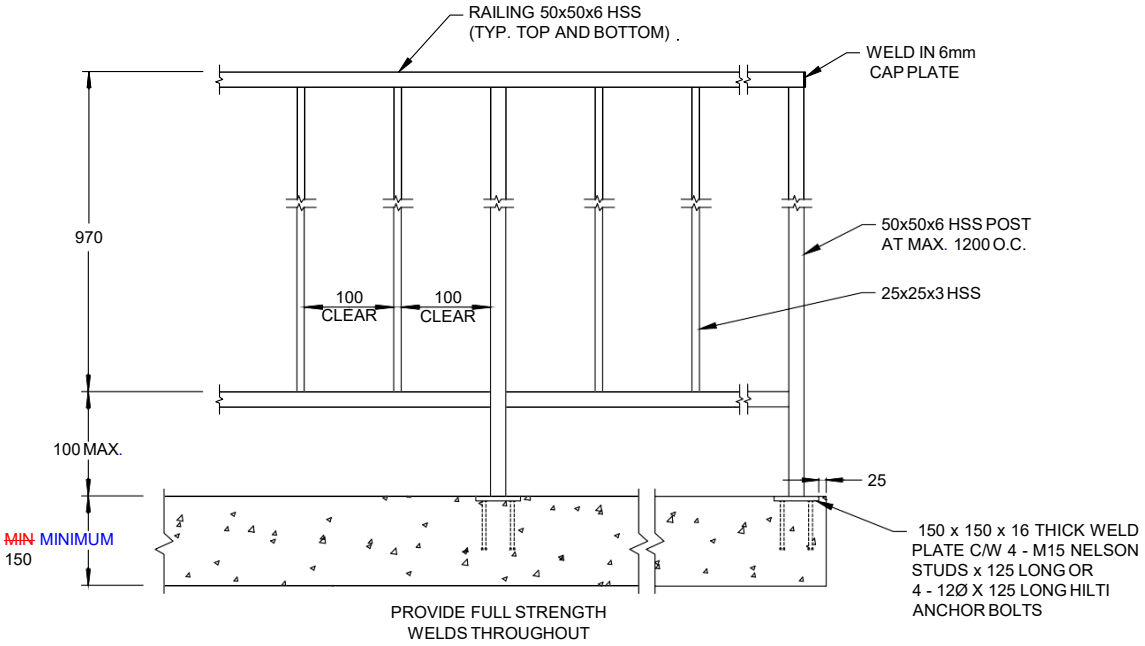


DETAIL FOR LOCATIONS WITH 100mm THICK CONCRETE ~~SIDEWALK~~ ADJACENT

Ed 15



DETAIL- WELD PLATE FOR RAILING POST



ELEVATION OF RAILING

NOTES:

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL MISCELLANEOUS STEEL ARE TO BE IN ACCORDANCE WITH CSA S16.
2. ALL WELDING IS TO CONFORM TO CSA W59 AND TO BE PERFORMED ONLY BY FABRICATION SHOPS APPROVED BY THE CANADIAN WELDING BUREAU TO CSA W47.1 FOR DIVISION 1 OR 2 REQUIREMENTS. PROVIDE FULL STRENGTH WELDS AND ALL WELDS ARE TO BE CONTINUOUS FOR THE LENGTH OF EACH JOINT. GRIND AND FILE WELDS SMOOTH AND FLUSH.
3. ALL STEEL IS TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   a) ROLLED SECTIONS AND PLATE: CAN/CSA-G40.21, GRADE 300W.
   b) HSS SECTIONS: CAN/CSA-G40.21, GRADE 350W, CLASS C OR CLASS H.
   c) WELDING ELECTRODES: CSA W48 SERIES AND APPLICABLE AWS-A5 SERIES.
4. ALL STEEL TO BE BLACK POWDER COATED TO ASTM D7803.
5. DAMAGED SURFACES SHALL BE THOROUGHLY CLEANED AND PAINTED WITH 2 COATS OF ORGANIC ZINC RICH PAINT.
6. ALUMINUM MAY BE SUBSTITUTED IN PLACE OF STEEL AS AN ALTERNATE.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
8. SHOP DRAWINGS TO BE APPROVED BY THE PROFESSIONAL OF RECORD.

Ed 15

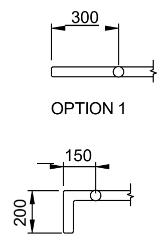
G:\INFRASTRUCTURE PLANNING\STANDARDS & PRODUCTS\MOE\SS\EDITION NO\13 MAY 2020\2020-05-01 FINAL MOESS EDITION NO13 DOCUMENT\2020 DRAWING SECTIONS\SECTION 8 DWGS\CS-31

3.18.2020

CITY OF NANAIMO
THE HARBOUR CITY

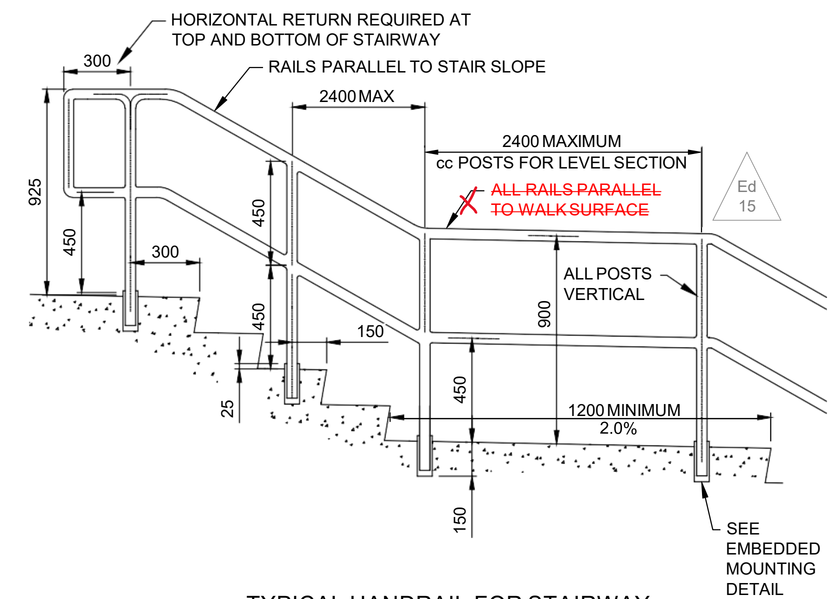
HANDRAILS AND STAIRWAYS
SIDEWALK HANDRAIL

Scale:	NTS
Created:	SEP 2012
Rev Date:	~~MAY 2020~~
Dwg No:	CS-31

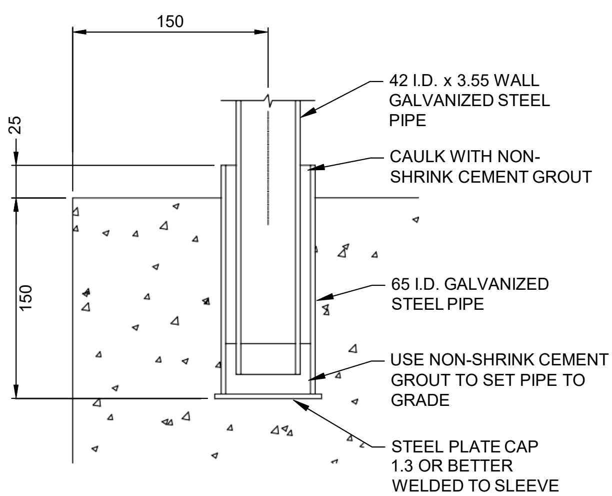


NOTE:
OPTION 2 TO BE USED WHEN OPTION 1 CANNOT BE INSTALLED WITHOUT ENCROACHING ON PEDESTRIAN SIDEWALK OR WALKWAY.

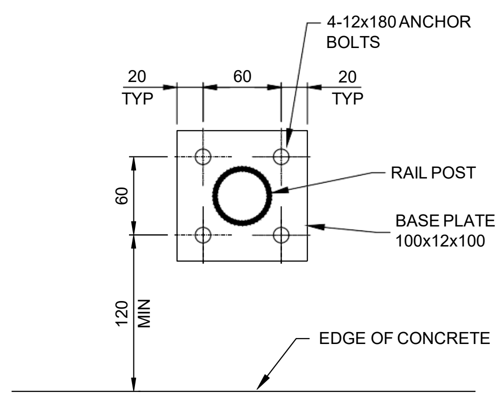
HANDRAIL END PLAN
VIEW OPTIONS 1 & 2



TYPICAL HANDRAIL FOR STAIRWAY



EMBEDDED MOUNTING



ATTACHED MOUNTING

NOTES:

1. ALL HANDRAILS SHALL BE FABRICATED FROM 42 I.D. x 3.55 WALL STEEL PIPE.
2. ALL JOINTS SHALL BE MITRED, WELDED ALL AROUND AND FILED SMOOTH.
3. ALL BENDS SHALL BE SMOOTH CIRCULAR CURVES.
4. ALL COMPONENTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION TO CSA - 6164. ALL STEEL TO BE BLACK POWER COATED TO ASTM D7803.
5. HANDRAILS REQUIRED ON BOTH SIDES OF STAIRWAY.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
7. SHOP DRAWINGS TO BE APPROVED BY THE PROFESSIONAL OF RECORD.

Ed 15
Ed 15

G:\INFRASTRUCTURE PLANNING\STANDARDS & PRODUCTS\MOESS\EDITION NO13 MAY 2020\2020-05-01 FINAL MOESS EDITION NO13 DOCUMENT\2020 DRAWING SECTIONS\SECTION 8 DWGS\CS-32

3.18.2020

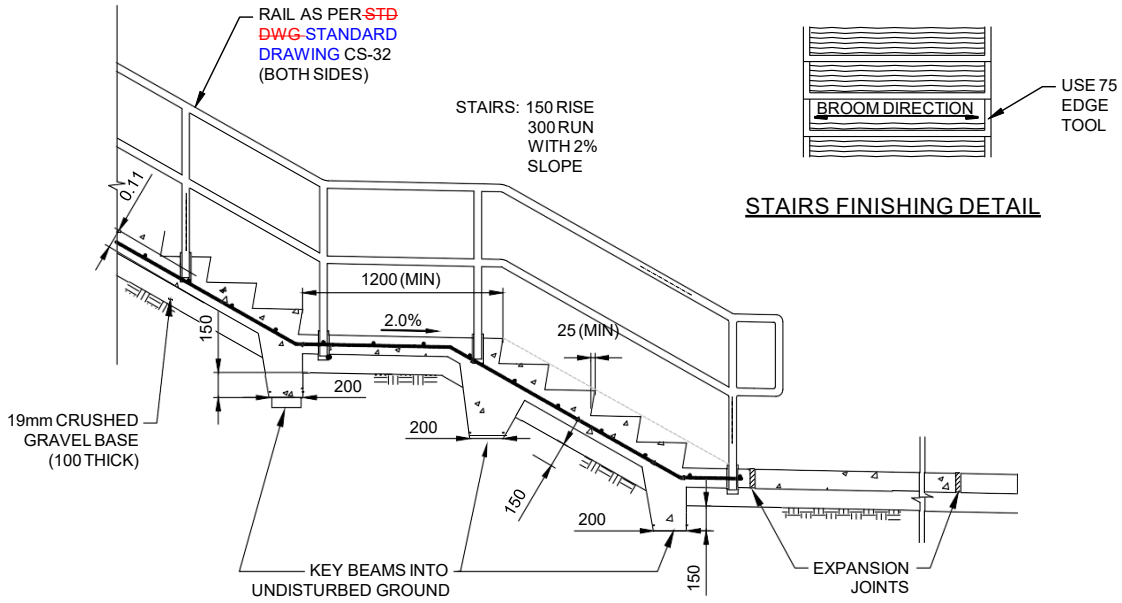
CITY OF NANAIMO
THE HARBOUR CITY

HANDRAILS AND STAIRWAYS
HANDRAIL FOR CONCRETE STAIRWAY

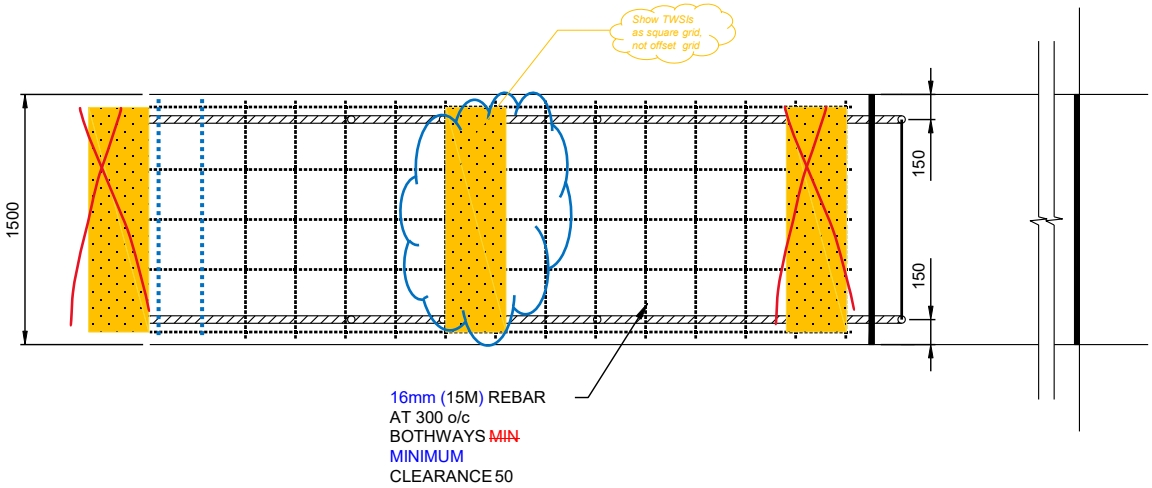
Scale:	NTS
Created:	NOV 2016
Rev Date:	~~MAY 2020~~
Dwg No:	CS-32

Ed 15

Ed 15



CONCRETE STAIRWAY ELEVATION



CONCRETE STAIRWAY PLAN

NOTES:

1. DESIGN CRITERIA AS PER SECTION 8.16. ~~MAXIMUM OF 12 RISERS PER FLIGHT BETWEEN LANDINGS.~~
2. ~~MAXIMUM WALKWAY GRADIENT IS 12%.~~
3. ~~FOR~~ CONCRETE MIX DESIGN CRITERIA~~, REFER TO~~ AS PER SECTION ~~8~~ 11.0.
4. REINFORCING BARS TO CSA G30.18 GRADE 400.
5. HANDRAIL DETAILS~~.~~ AS PER STANDARD DRAWING ~~SEE STD. DWG~~ CS-32.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN.
7. TWSIs TO BE INSTALLED AT EVERY STAIR LANDING AS PER SECTION 8.0.
8. LIGHTING LEVELS ~~TO BE IN ACCORDANCE WITH~~ AS PER SECTION 10.0.
9. DESIGN DRAWINGS TO SUIT SITE CONDITIONS ARE BY PROFESSIONAL OF RECORD.

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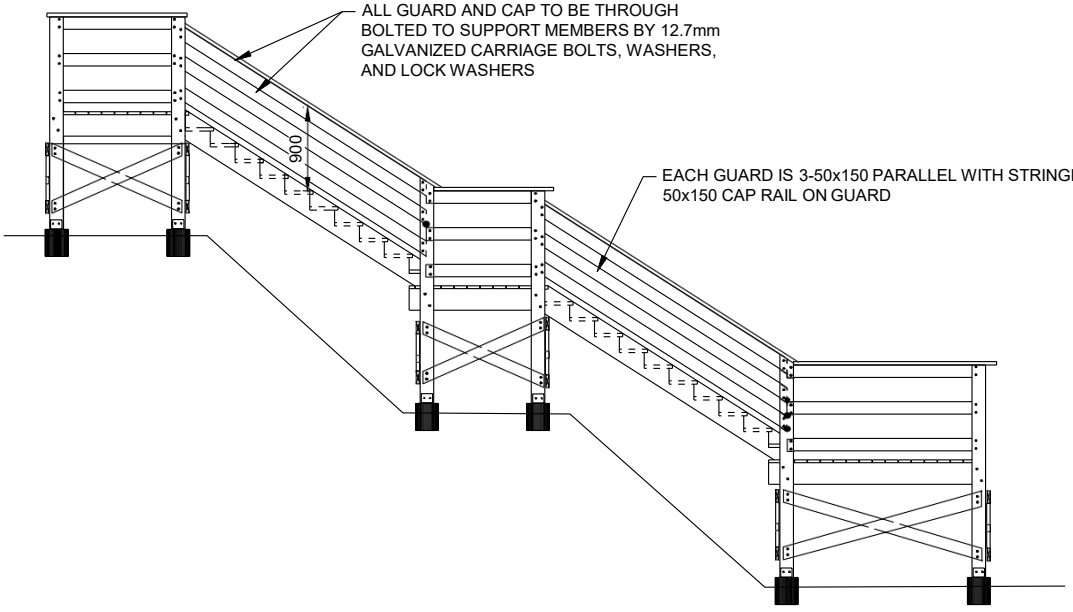
CITY OF NANAIMO
THE HARBOUR CITY

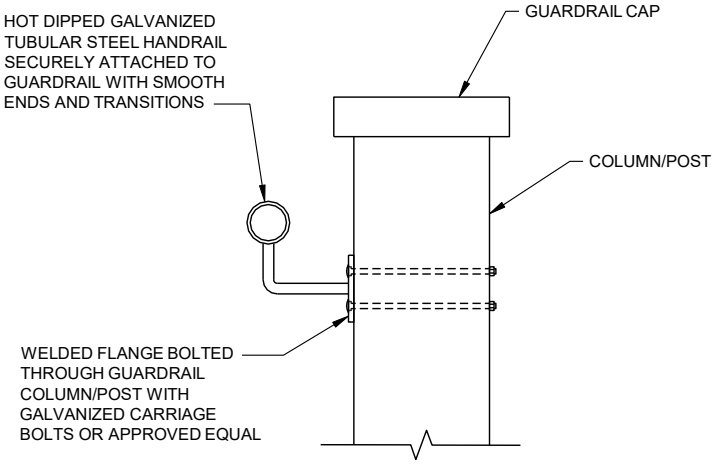
HANDRAILS AND STAIRWAYS
CONCRETE STAIRWAY AND LANDING

Scale: 1:40
Created: NOV 2016
Rev Date: ~~MAY 2020~~
Dwg No: CS-33

Ed 15



WOODEN STAIRWAY ELEVATION



TYPICAL HANDRAIL SECTION

NOTES:

1. ALL TIMBER TO BE PRESSURE TREATED OR APPROVED EQUAL.
2. ALL GUARDRAILS TO BE CONSTRUCTED AS SHOWN.
3. GUARDRAILS REQUIRED ON BOTH SIDES OF STAIRWAY.
4. NO NAILS ON EXTERIOR DECK. SCREWS ONLY FOR ATTACHING CAP RAIL AND POSTS.
5. HANDRAILS TO BE INSTALLED ON STAIRS WITH MORE THAN THREE RISERS.
6. HANDRAILS MUST BE GRASPABLE 864mm (34"in) MIN - 1067mm (42"in) MAX. MEASURED VERTICALLY FROM STAIR NOSING LINE.
7. HANDRAILS TO BE HOT DIPPED GALVANIZED STEEL TUBULAR SECTION 48mm DIA x 3.55mm WALL OR APPROVED EQUAL.
8. ~~FOR~~ STAIRWAY DETAILS ~~REFER TO STD. DWG.~~ AS PER STANDARD DRAWING CS-35.
9. ALL DIMENSIONS ~~ARE~~ IN MILLIMETERS UNLESS OTHERWISE NOTED.
10. DESIGN DRAWINGS FOR SITE CONDITIONS ARE BY PROFESSIONAL OF RECORD.

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CITY OF NANAIMO
THE HARBOUR CITY

Ed 15

HANDRAILS AND STAIRWAYS
GUARDRAIL FOR WOODEN STAIRWAY

Scale:	NTS
Created:	NOV 2016
Rev Date:	~~MAY 2020~~
Dwg No:	CS-34

Ed 15

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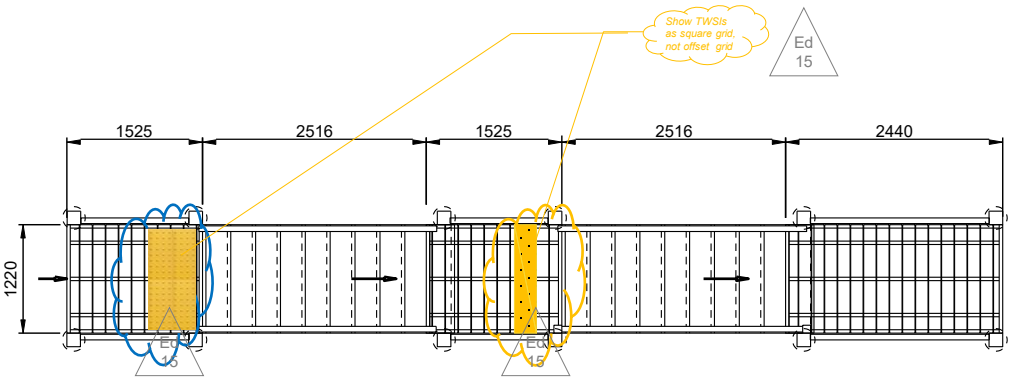
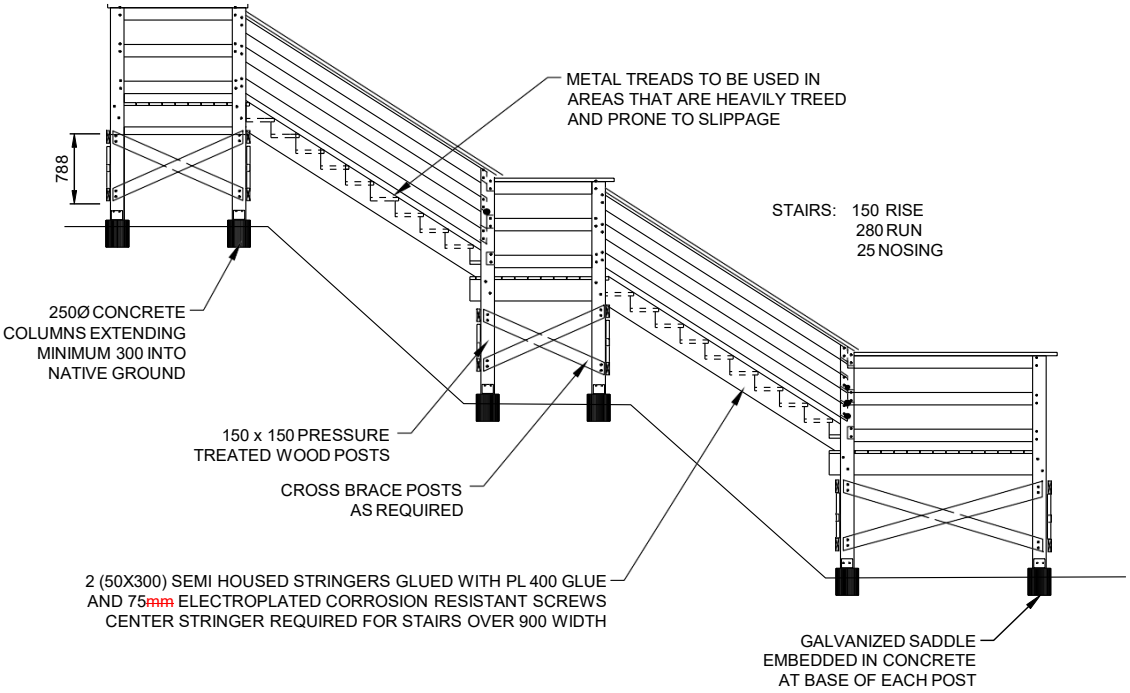
3.20.2020



WOODEN STAIRWAY PLAN



WOODEN STAIRWAY ELEVATION

NOTES:

1. ALL TIMBER TO BE PRESSURE TREATED OR APPROVED EQUAL.
2. VEGETATION CLEARANCE TO BE 0.5m MINIMUM HORIZONTAL AND 2.0m VERTICAL.
3. ENSURE ADEQUATE SIGHTLINES ON CORNERS.
4. RESIDENTIAL BUFFER TO BE 5.0m.
5. ~~REFER TO CITY OF NANAIMO - TRAIL PLAN - DESIGN GUIDELINES (MAY 2007) FOR ADDITIONAL DESIGN INFORMATION~~.

Ed 15

5. ~~6.~~ ~~FOR~~ GUARDRAIL AND HANDRAIL DETAILS ~~REFER TO STD. DWG.~~ AS PER STANDARD DRAWING CS-34.
6. ~~7.~~ STRUCTURAL CERTIFICATION REQUIRED WITH STAIR DESIGN SUBMISSION AUTHENTICATED BY PROFESSIONAL OF RECORD ~~SEALED BY A PROFESSIONAL ENGINEER~~.

Ed 15

7. ~~8.~~ TWSIs TO BE INSTALLED ~~AT EVERY STAIR LANDING~~ AS PER SECTION 8.0.
8. ~~9.~~ ENGINEERED ALTERNATIVES FOR STAIR FOOTINGS MAY BE APPROVED.

Ed 15

9. ~~10.~~ ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
10. ~~11.~~ DESIGN DRAWINGS FOR SITE CONDITIONS ARE BY PROFESSIONAL OF RECORD.

CITY OF NANAIMO
THE HARBOUR CITY

HANDRAILS AND STAIRWAYS
WOODEN STAIRWAY AND LANDING
15 (~~BEACH ACCESS~~)

Scale:	NTS
Created:	NOV 2016
Rev Date:	~~MAY 2020~~
Dwg No:	CS-35

Ed 15

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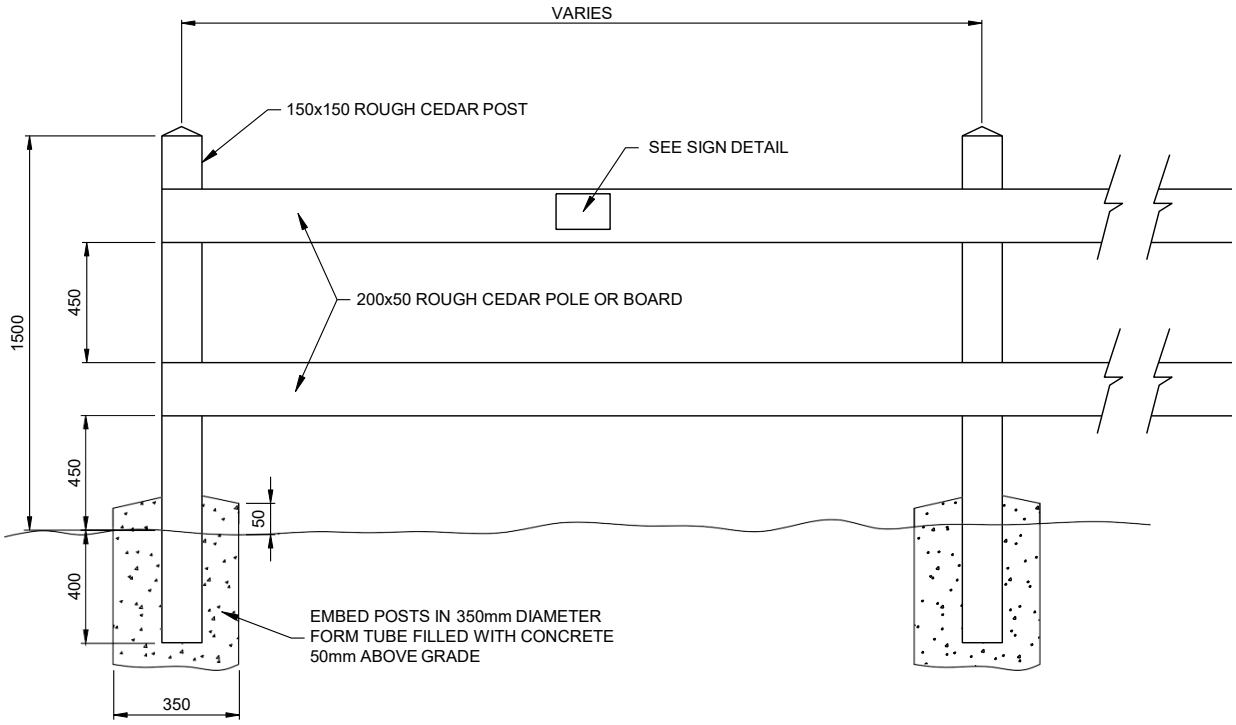


NOTES:

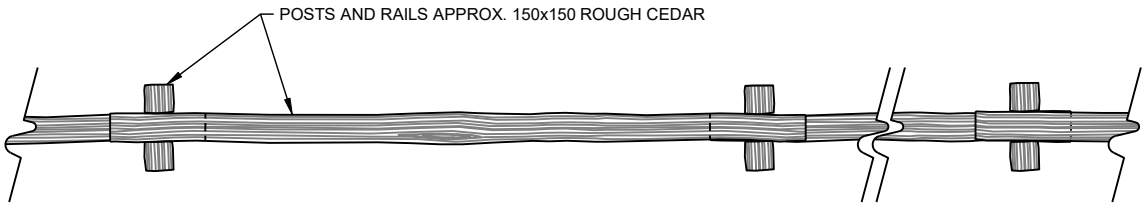
Ed 15

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. TO BE INSTALLED AT EDGE OF SLOPE, OFFSET 0.5m FROM EDGE OF PATHWAY
3. WHEN INSTALLED AS AN AQUATIC SETBACK FENCE, THE FOLLOWING MUST BE COMPLETED:
   a) TO BE INSTALLED AT THE EDGE OF ALL AQUATIC SETBACK BOUNDARIES TO ENSURE THE SETBACK IS DELINEATED.
   b) SIGN TO BE MOUNTED TO FENCE TO ENSURE THE SETBACK AREA IS PROTECTED.
   c) SIGN TO BE INSTALL AT THE REAR OF EVERY LOT BACKING ONTO THE SETBACK AREA OR AT A 30m SPACING.

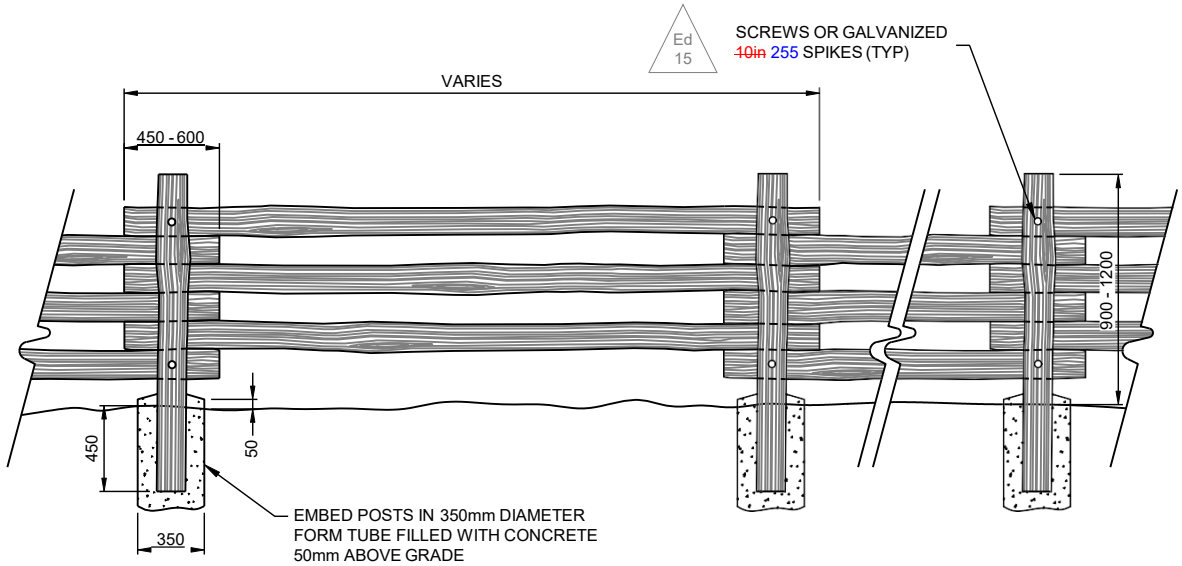
Environmentally Protected Area

CITY OF NANAIMO
THE HARBOUR CITY

ENVIRONMENTALLY PROTECTED AREA SIGN



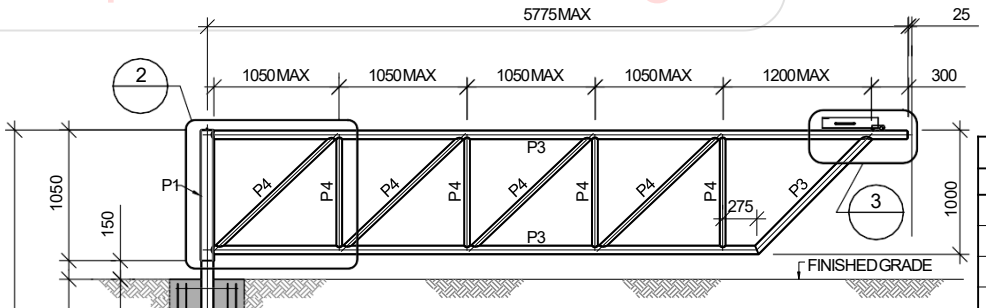
SPLIT RAIL FENCE PLAN



SPLIT RAIL FENCE ELEVATION

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. TOP OF POSTS TO BE SECURED TOGETHER WITH WIRE.
3. CONCRETE AS PER SECTION 11.0.

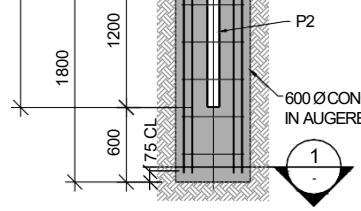


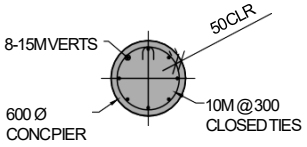
1/2 OF THE GATE SHOWN
GATE IS SYMETRICAL
ABOUT CENTRELINE
2 GATES TOTAL SPAN = 11.55m
CENTER - CENTER OF PIERS

STEEL MEMBER SIZE	
MARK	SIZE
P1	100 STD x 1050 LG
P2	90 STD x 2400 LG
P3	65 STD
P4	40 STD

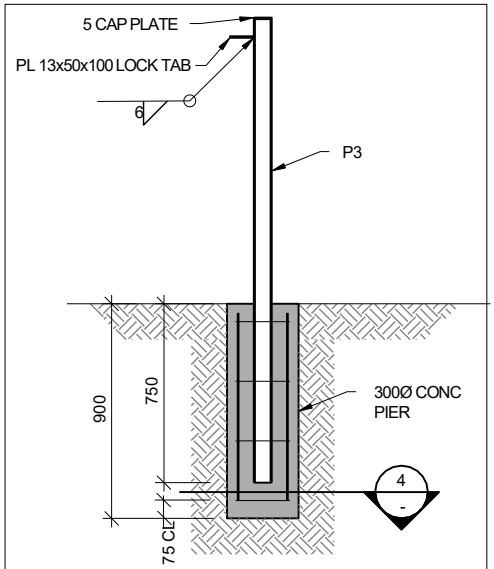
SWING GATE ELEVATION

NTS



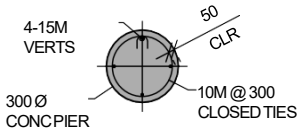


1 - SECTION
NTS

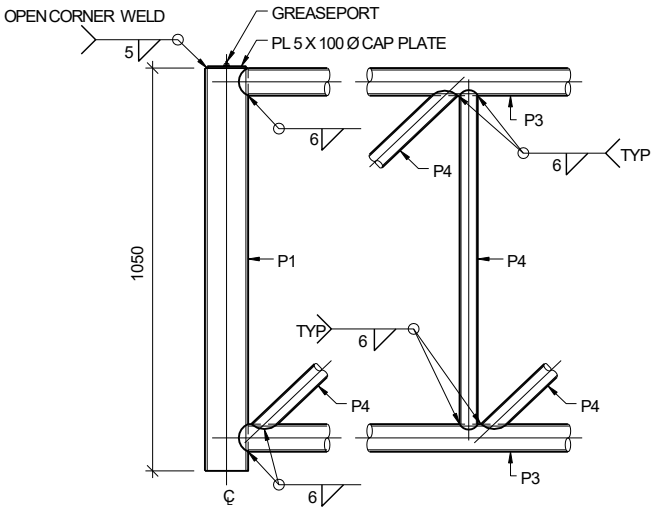


GATE CATCH POST ELEVATION

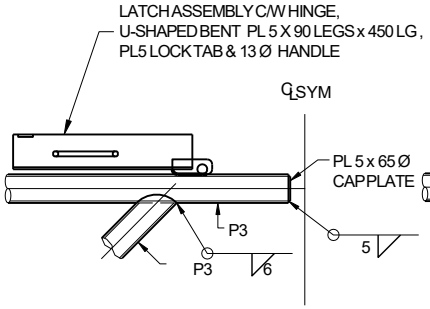
NTS



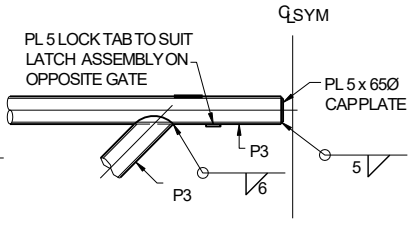
4 - SECTION
NTS



2 GATE DETAIL
NTS



3a LATCH GATE DETAIL
NTS



3b NON-LATCH GATE DETAIL
NTS

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. DESIGN AND REVIEW BY A PROFESSIONAL OF RECORD.
3. CONCRETE PIER IS CLASS F-1, PER SECTION 11.0.
4. STEEL PIPE TO ASTM-A53, GRADE B, STANDARD WEIGHT, SEAMLESS, BLACK.
5. STEEL PLATE TO CAN/CSA-G40.21 GRADE 300W.
6. STEEL SURFACES SHALL BE BLAST CLEANED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO PAINTING.
7. EXPOSED STEEL SURFACES SHALL BE PAINTED WITH A BASE COAT OF ENAMEL RUST PAINT AND A TOP COAT OF BRIGHT YELLOW ENAMEL RUST PAINT.
8. GATE IS SHOWN WITH MAXIMUM SPAN. ADJUST DIMENSIONS TO SUIT SITE CONDITIONS BUT DO NOT EXCEED MAXIMUM MEMBER SPACING INDICATED ON THE ELEVATION.

CITY OF NANAIMO
THE HARBOUR CITY

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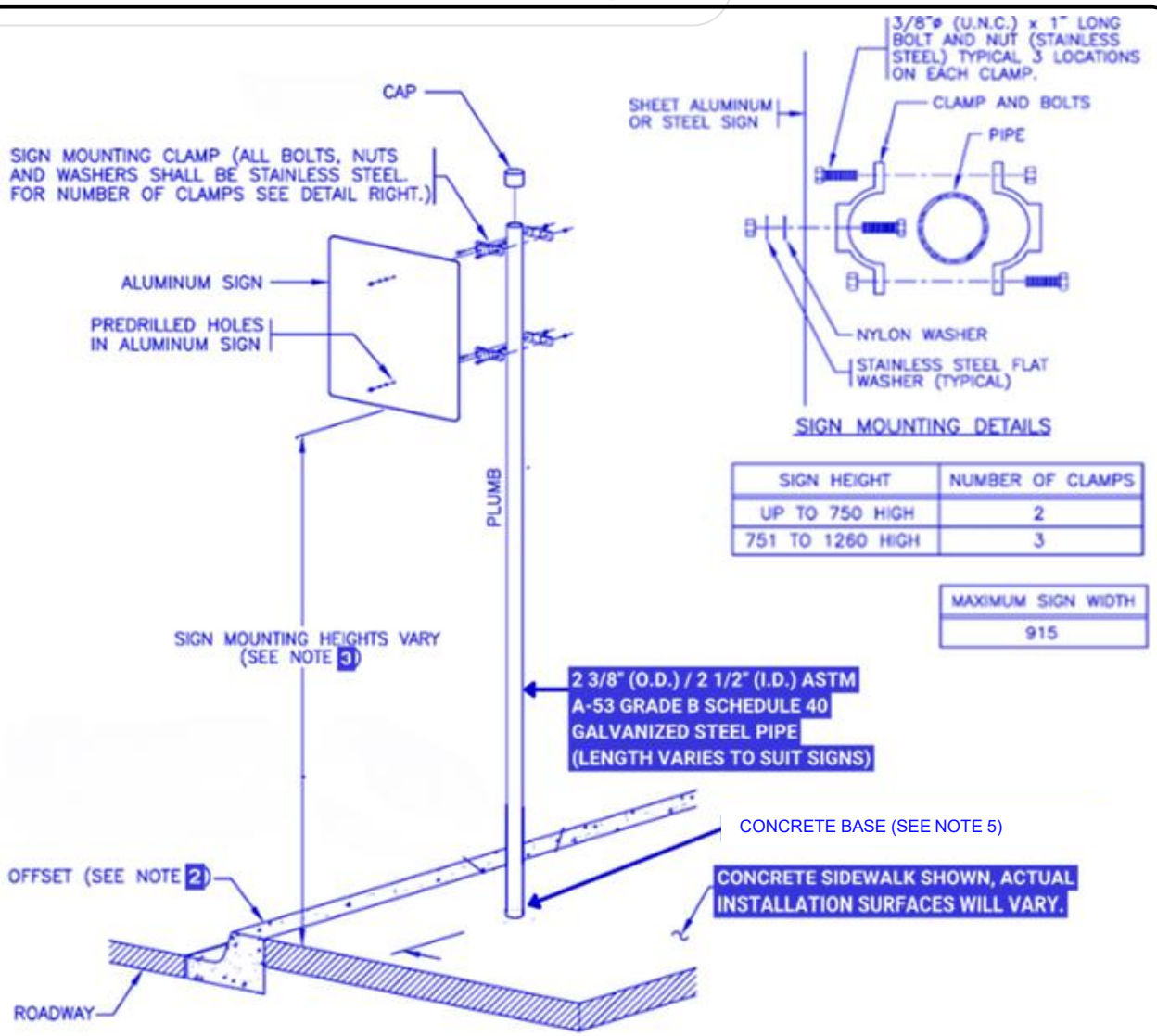
FENCES AND GATES
PARK GATE

Scale:	NTS
Created:	AJB (Permit 1000201)
Rev Date:	May 2025
Dwg No:	CS-38



SIGN MOUNTING DETAILS

SIGN HEIGHT	NUMBER OF CLAMPS
UP TO 750 HIGH	2
751 TO 1260 HIGH	3

MAXIMUM SIGN WIDTH
915

NOTES:

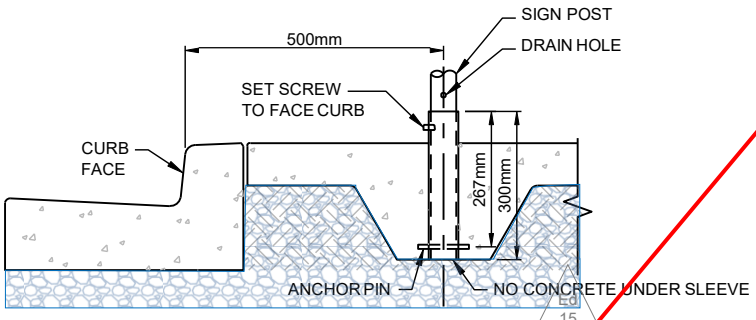
1. SIGN POSTS ARE TO BE ABSOLUTELY PLUMB.
2. SIGNS TO BE INSTALLED SO THAT A MINIMUM OF 300mm CLEARANCE IS PROVIDED BETWEEN THE SIGN EDGE AND THE FACE OF CURB.
3. THE BOTTOM OF SIGN HEIGHT OF THE LOWEST SIGN SHALL BE AS FOLLOWS:
   a. 2.0m ABOVE THE FINSHED SURFACE, OR
   b. 2.1m ABOVE THE SIDEWALK OR WALKING SURFACE WHERE PEDESTRIAN TRAFFIC IS LIKELY, OR
   c. 2.5m ABOVE THE CYCLE PATH OR WALKING SURFACE WHERE CYCLING TRAFFIC IS LIKELY.
   d. EXCEPT FOR OBJECT MARKER SIGNS WHICH SHALL BE INSTALLED WITH THE BOTTOM OF SIGN 0.45m ABOVE THE FINSHED SURFACE.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
5. REFER TO STANDARD DRAWING CS-40B FOR CONCRETE BASE DETAILS. THE SPECIFICATIONS WILL DEPEND ON THE APPLICATION.

CITY OF NANAIMO
THE HARBOUR CITY

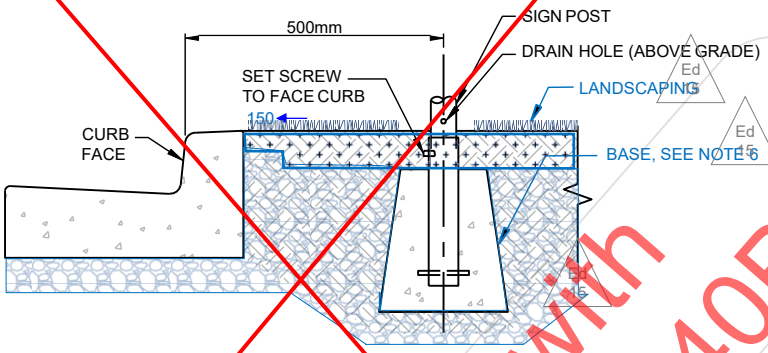
Ed 15

TRAFFIC SIGNAGE
ROUND STEEL POLES

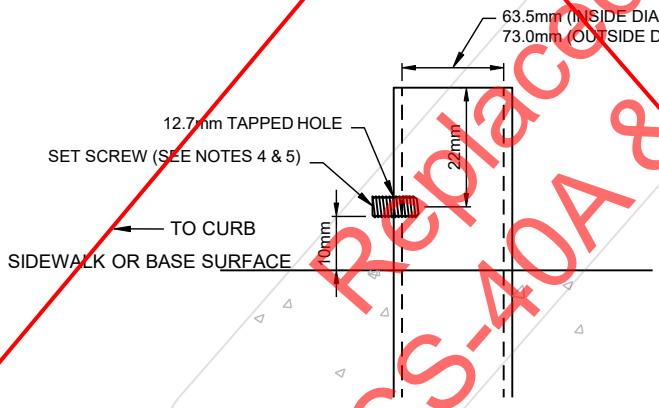
Scale: NTS
Created: DEC 2025
Rev Date:
Dwg No: CS-40A



POST AND SLEEVE INSTALLATION



POST AND BASE INSTALLATION



SLEEVE DETAIL

Replaced with CS-40A & CS-40B

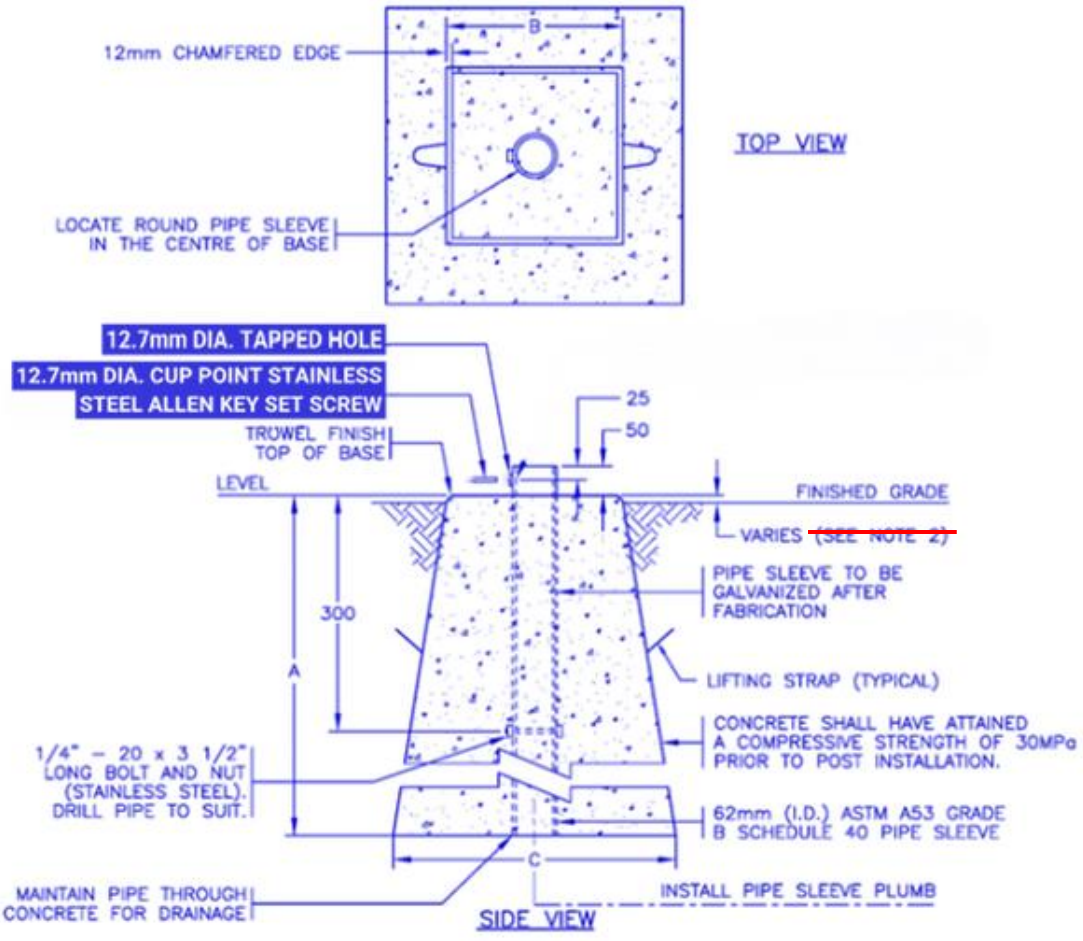
NOTES:

1. CAUTION MUST BE TAKEN TO ENSURE THAT NO CONCRETE OR DEBRIS GET INSIDE THE SLEEVE.
2. THE SLEEVE IS TO BE ABSOLUTELY PLUMB.
3. ENSURE SLEEVES AND BASES MAINTAIN UTILITY CLEARANCES AND REVIEW AND REVIEW SIGN LOCATIONS WHERE CLEARANCE IS NOT POSSIBLE. ~~ALTERNATIVE SIGN LOCATIONS MAY BE NECESSARY IN INSTANCES OF CONFLICT WITH UNDERGROUND UTILITIES.~~
4. POST AND SLEEVE: 12.7mm DIAMETER x 12.7mm LENGTH CUP POINT STAINLESS STEEL ALLEN KEY SET SCREW.
5. POST AND BASE: 12.7mm DIAMETER x 19.1mm LENGTH CUP POINT STAINLESS STEEL ALLEN KEY SET SCREW.
6. BASE TO CONFORM TO DIMENSIONS, VOLUME AND MASS, SEE MOTT SPECIFICATION SP635-1.1.46 APPROPRIATE FOR LOCATION.
7. LANDSCAPING AS PER SECTION 14.0.
8. SIGN PLACEMENT HEIGHT AS PER HEIGHTS ON STANDARD DRAWING CS-41 OR BC MANUAL OF STANDARD TRAFFIC SIGNS & PAVEMENT MARKINGS. BOTTOM OF HAZARD OBJECT MARKERS IN MEDIANS TO BE MOUNTED 500 mm TO 1000 mm ABOVE TRAVELED ROADWAY, DEPENDING ON SIGHT DISTANCE.

CITY OF NANAIMO
THE HARBOUR CITY

TRAFFIC SIGNAGE
ROUND STOCK SIGN

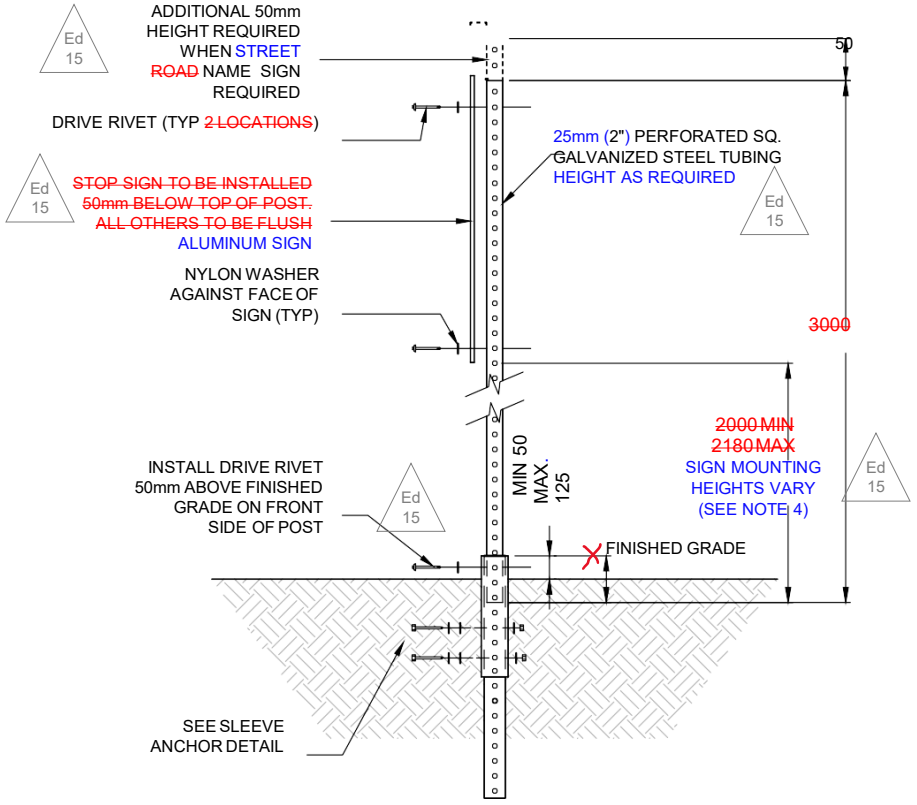
Scale:	NTS
Created:	OCT 2019
Rev Date:	~~MAY 2020~~
Dwg No:	CS-40



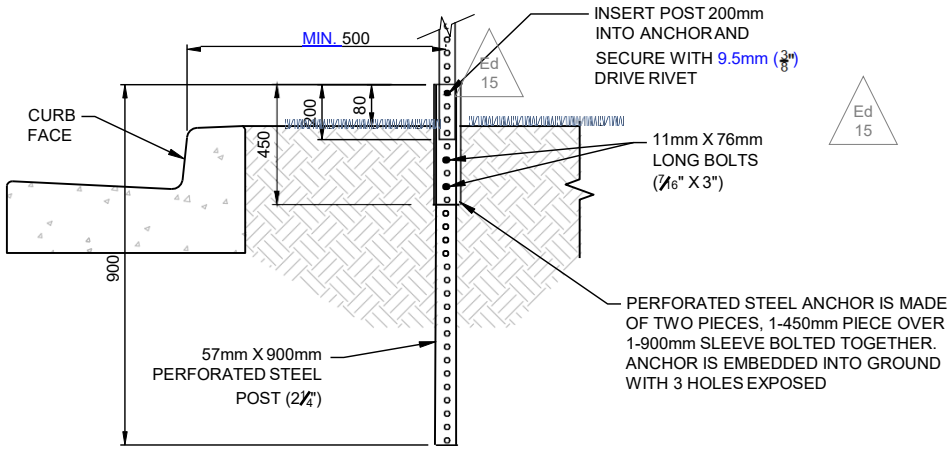
APPLICATION	APPROXIMATE MASS	VOLUME OF CONCRETE	A	B	C
SINGLE POST SIGNS IN PAVED ISLANDS OR CONCRETE SIDEWALKS	34 kg	0.015 m^3	400	160	230
SINGLE OR TWO POST SIGNS (UP TO 1.0m x 1.2m) IN GRAVEL SHOULDER OR LANDSCAPE BLVD	166 kg	0.068 m^3	470	300	460
SINGLE OR TWO POST SIGNS (1.0m x 1.2m UP TO 1.2m x 2.4m) IN GRAVEL SHOULDER OR LANDSCAPE BLVD	390 kg	0.16 m^3	750	330	600

NOTES:

1. CAUTION MUST BE TAKEN TO ENSURE THAT NO CONCRETE OR DEBRIS GET INSIDE THE SLEEVE.
2. THE SLEEVE IS TO BE ABSOLUTELY PLUMB.
3. CYLINDRICAL BASES MAY BE USED WITH PRIOR WRITTEN PERMISSION FROM THE CITY AND MUST MEET MASS AND VOLUME REQUIRMENTS SHOWN ABOVE.
4. FOR CAST IN PLACE CONCRETE AS PER SECTION 11.0.
5. REFER TO STANDARD DRAWING CS-40A FOR MINIMUM OFFSETS.
6. BASE SHALL BE INSTALLED 25mm ABOVE FINISHED GRADE EXCEPT WHEN INSTALLED IN SIDEWALK IT SHALL BE FLUSH WITH TOP OF SIDEWALK WITH NO CHAMFERED EDGE.
7. LANDSCAPING AS PER SECTION 14.0.



PERFORATED STEEL SIGN POST



SLEEVE ANCHOR DETAIL

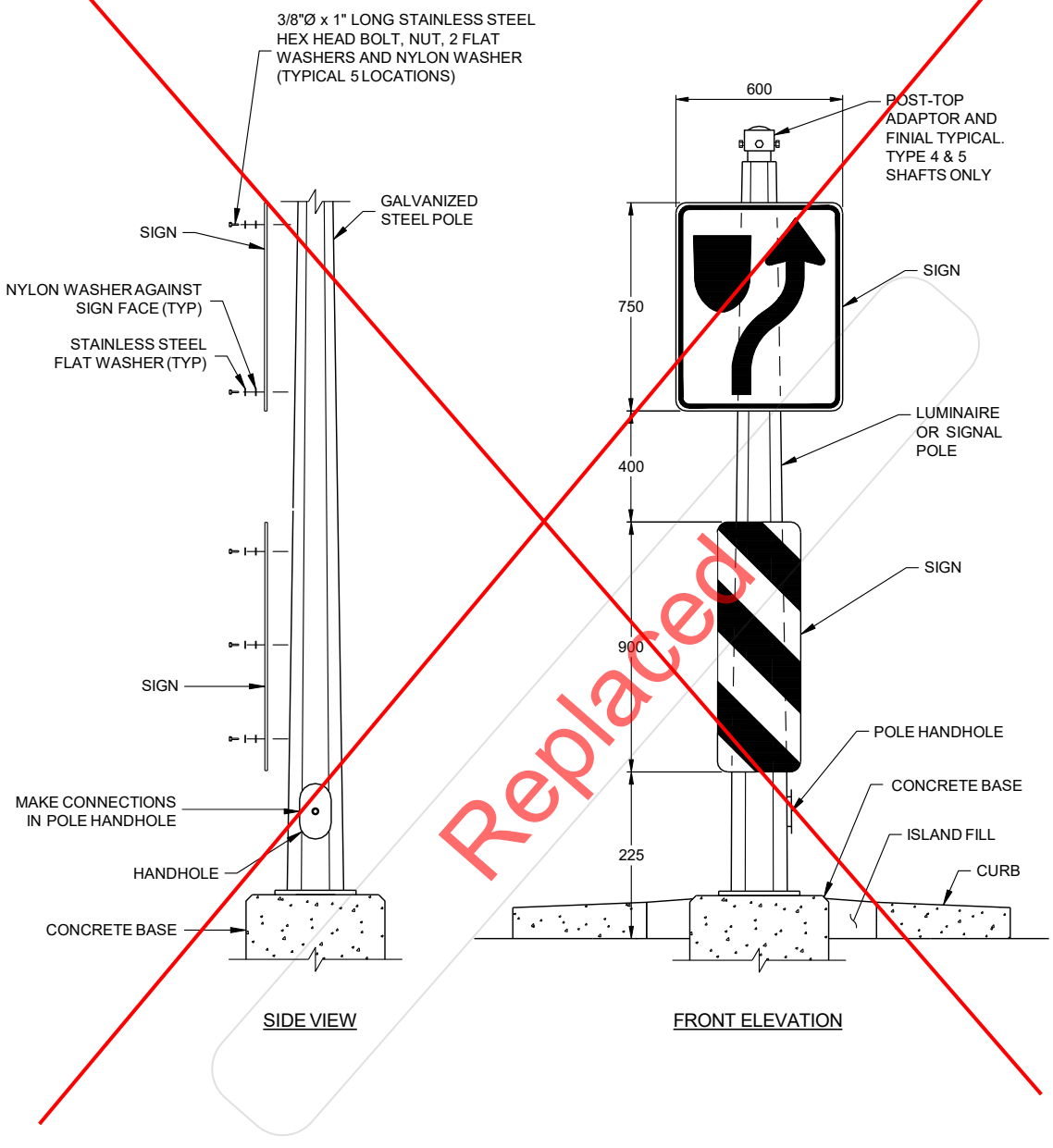
NOTES:

1. ALL DIMENSIONS ~~ARE~~ IN MILLIMETERS UNLESS ~~SHOWN~~ OTHERWISE NOTED.
2. SIGN POSTS ARE TO BE ABSOLUTELY PLUMB.
3. SIGN POSTS TO BE INSTALLED MINIMUM 500mm FROM FACE OF CURB.
4. FOR TRAFFIC SIGN REQUIREMENTS, REFER TO CS-40A.
5. USE OF PERFORATED STEEL SIGN POST REQUIRES APPROVAL BY THE CITY ENGINEER.

CITY OF NANAIMO
THE HARBOUR CITY

TRAFFIC SIGNAGE
PERFORATED STEEL SIGN

Scale:	NTS
Created:	APR 2013
Rev Date:	~~MAY 2020~~
Dwg No:	CS-41



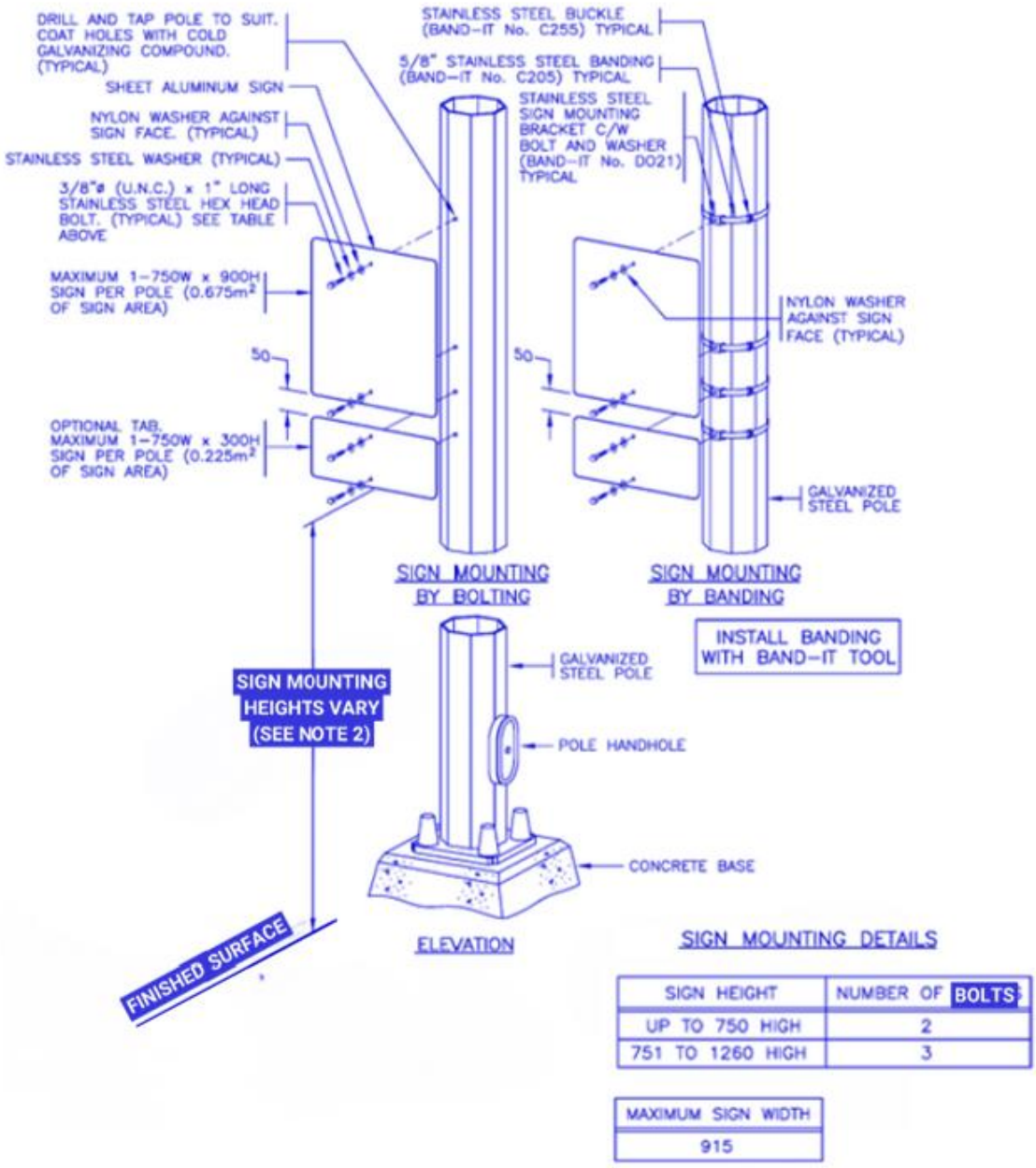
NOTES:

1. REFER TO ~~CONTRACT~~ CONSTRUCTION DRAWINGS AND SECTION 10.0 FOR DETAILED SPECIFICATIONS.
2. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE NOTED.

CITY OF NANAIMO
THE HARBOUR CITY

TRAFFIC SIGNAGE
SIGNS ON STEEL POLES

Scale:	NTS
Created:	MAY 2013
Rev Date:	~~MAY 2020~~
Dwg No:	CS-42



SIGN MOUNTING DETAILS

SIGN HEIGHT	NUMBER OF BOLTS
UP TO 750 HIGH	2
751 TO 1260 HIGH	3

MAXIMUM SIGN WIDTH
915

NOTES:

1. SEE STANDARD DRAWINGS IN SECTION 10.0 FOR SIGNAL POLE OR LUMINAIRE POLE DETAILS.
2. THE BOTTOM OF SIGN HEIGHT OF THE LOWEST SIGN SHALL BE AS FOLLOWS:
   a. 2.0m ABOVE THE FINSHED SURFACE, OR
   b. 2.1m ABOVE THE SIDEWALK OR WALKING SURFACE WHERE PEDESTRIAN TRAFFIC IS LIKELY, OR
   c. 2.5m ABOVE THE CYCLE PATH OR WALKING SURFACE WHERE CYCLING TRAFFIC IS LIKELY.
   d. EXCEPT FOR OBJECT MARKER SIGNS WHICH SHALL BE INSTALLED WITH THE BOTTOM OF SIGN 0.45m ABOVE THE FINSHED SURFACE.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED

CITY OF NANAIMO
THE HARBOUR CITY

TRAFFIC SIGNAGE
SIGNS ON ~~STEEL POLES~~
SIGNAL POLE OR LUMINAIRE POLE

Scale: NTS
Created: DEC 2025
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