Supplementary Standard Detail Drawings

July 2026

Engineering Department

This document contains the Supplementary Detail Drawings prepared by the City of Burnaby, based on the Master Municipal Construction Documents (MMCD), 2019 Edition.

As the City continually updates its *Detail Drawings*, the information in this document is subject to change without notice.

For the most current information, please contact the Engineering Department, Projects Division, at 604-294-7479, or visit the webpage City of Burnaby Engineering Publications.

Publisher: City of Burnaby, Engineering Department
Revised: July 2026

The following Standard Detail Drawings contained in the Master Municipal Construction Documents (MMCD), 2019 Edition are hereby deleted in their entirety and replaced by the City of Burnaby Supplementary Standard Detail Drawings.

1. MMCD Standard Detail Drawings – Civil

G1, G5, G6, S7, S8, S9, S11, S12, S14, S15, W2a, W2b, W2c, W2d, W5, W6, W104, W105, W106, W107, W108, W109, W110, W111, W112, W113, W114, W115, W116, W119, C1, C2, C3, C4, C6, C7, C8, C9, C10, C11, C12, C14, C15, CE1.20 (M2), CE1.21 (M2), CE1.8 (V1), CE1.9 (V2), R1, R2, R3, R4, R5, R6, R7, R8.

2. MMCD Standard Detail Drawings – Electrical

E4.1, E4.2.

WATERWORKS DETAILS

BBY-W101	TEMPORARY END OF WATERMAIN
BBY-W102	TYPICAL 20MM & 25MM SERVICE CONNECTION
BBY-W103	TYPICAL 38MM & 50MM SERVICE CONNECTION
BBY-W104	CATHODIC PROTECTION GROUND LEVEL TEST STATION DETAILS
BBY-W105	BIG FINK TEST STATION TERMINAL
BBY-W106	JOINT CONTINUITY BOND
BBY-W107	WIRE FASTENING DETAIL
BBY-W108	STANDARD TEST STATION
BBY-W109	ISOLATION TEST STATION
BBY-W110	SACRIFICIAL ANODE STATION @ ISOLATION TEST POINT
BBY-W111	STANDARD SACRIFICIAL ANODE STATION
BBY-W112	SACRIFICIAL ANODE STATION WITH LATERAL OR SERVICE CONNECTION
BBY-W113	FOREIGN UTILITY TEST STATION
BBY-W114	IMPRESSED CURRENT CATHODIC PROTECTION RECTIFIER INSTALLATION
BBY-W115	HORIZONTAL ANODE INSTALLATION
BBY-W116	SEMI-DEEP ANODE WELL INSTALLATION
~~BBY-W117~~	~~DELETED~~
BBY-W118	NELSON-TYPE VALVE BOX
BBY-W119	FIRE HYDRANT INSTALLATION FOR HDPE PIPE
BBY-W120	MR6 VALVE BOX
BBY-W121	AIR VALVE ASSEMBLY SHALLOW BURY APPLICATION
BBY-W122	BURNABY WATER LID DETAILS
BBY-WM1	GENERAL LAYOUT FOR TYPICAL WATER METER INSTALLATIONS
BBY-WM2	OUTSIDE INSTALLATION FOR 19MM & 25MM METERS
~~BBY-WM2b~~	~~OUTSIDE INSTALLATION FOR 19MM & 25MM METERS (SETTER WITHOUT METER)~~
BBY-WM3	OUTSIDE INSTALLATION FOR 38MM & 50MM METERS
BBY-WM4A	COMBINED FIRE & DOMESTIC SERVICE METER INSTALLATION (200MM SHOWN FOR CLARITY)
BBY-WM4B	COMBINED FIRE & DOMESTIC SERVICE METER INSTALLATION IN MECHANICAL ROOM (200MM SHOWN FOR CLARITY)

STORM AND SANITARY SEWER DETAILS

BBY-S101	CRADLING IN PIPE ZONE
BBY-S102	TRAPPING HOOD DETAILS
BBY-S103	CATCH BASIN FRAME & GRATE (TYPE I & MODIFIED GRATE)
BBY-S104	CATCH BASIN FRAME & GRATE (TYPE V)
BBY-S105	CATCH BASIN FRAME (ADJUSTABLE CURB INLET, TYPE VA)
~~BBY-S106~~	~~CAST IRON MANHOLE FRAME & COVER~~
BBY-S107	TYPICAL CATCH BASIN INSTALLATION
BBY-S108	CATCH BASIN TYPE I DETAILS
BBY-S109	CATCH BASIN TYPE II DETAILS
BBY-S110	CATCH BASIN TYPE V AND VA DETAILS
BBY-S111	OFFSET SUMP CATCH BASIN TYPE VII AND VIIIA
BBY-S112	LAWN BASIN
~~BBY-S113~~	~~TYPICAL CLEAN-OUT~~
BBY-S114	3 METHODS OF CONNECTING PROPERTIES TO NEW STORM SEWER
~~BBY-S115~~	~~TEMPORARY ENERGY DISSIPATOR~~
~~BBY-S116~~	~~TEMPORARY INLET STRUCTURE FOR PIPE MAXIMUM 900MM DIAMETER~~
~~BBY-S117~~	~~STANDARD INLET STRUCTURE FOR PIPE MAXIMUM 900MM DIAMETER~~
BBY-S118	PUMPED SANITARY (FORCE MAIN) CONNECTION
~~BBY-S119~~	~~OIL INTERCEPTOR INSTALLATION~~
BBY-S119	PUMP DRAINGE CONNECTION
BBY-S120	SERVICE CONNECTION TO STORM OR SANITARY SEWER
BBY-S121	SERVICE CONNECTION TO COMBINED SEWER
BBY-S122	INSPECTION CHAMBER FOR 100MM TO 200MM SERVICE CONNECTION
~~BBY-S123~~	~~CAST IRON MANHOLE FRAME & COVER (COLLECTORS & ARTERIALS)~~
BBY-124A	SELF LEVEL MANHOLE DETAILS
BBY-124B	LOW PROFILE SELF LEVEL MANHOLE DETAILS
BBY-S125	BURNABY STROM SEWER LID DETAILS
BBY-S127	BURNABY SANITARY SEWER LID DETAILS

ROADWORKS DETAILS

BBY-R101A	TYPICAL LANE - CROWN SECTION NO CONCRETE CURB
BBY-R101B	TYPICAL LANE - CROWN SECTION WITH CONCRETE CURB
BBY-R102A	TYPICAL LANE - CROSSFALL SECTION NO CONCRETE CURB
BBY-R102B	TYPICAL LANE - CROSSFALL SECTION WITH CONCRETE CURB
~~BBY-R103~~	~~TYPICAL CROSS SECTION OF FINISHED PAVED STREET WITH CURB & GUTTER & ABUTTING SIDEWALKS (RESIDENTIAL)~~
~~BBY-R104~~	~~TYPICAL CROSS SECTION OF FINISHED PAVED STREET WITH CURB & GUTTER & ABUTTING SIDEWALKS (COLLECTOR)~~
~~BBY-R105~~	~~TYPICAL CROSS SECTION OF FINISHED PAVED STREET WITH CURB & GUTTER & ABUTTING SIDEWALKS (COMMERCIAL OR INDUSTRIAL)~~
~~BBY-R106~~	~~TYPICAL CROSS SECTION FOR INTERIM PAVED STREET~~
~~BBY-R107~~	~~TYPICAL CROSS SECTIONS FOR ELIMINATION OF DITCHES & CONSTRUCTION OF SWALES~~
~~BBY-R108~~	~~URBAN TRAIL~~
BBY-R109A	RAISED MEADIN AND FENCE
BBY-R109B	RAISED MEADIN AND FENCE PLAN AND ELEVATION
~~BBY-R110~~	~~TRUCK WHEEL WASH DETAIL~~
BBY-R111A	TYPICAL ASPHALT MULTI-USE PATHWAY
BBY-R111B	TYPICAL CROSS SECTION MID-BLOCK WALKWAY
BBY-R112	TYPICAL ROCK DUST MULTI-USE PATHWAY
BBY-R113	TYPICAL CONCRETE MULTI-USE PATHWAY
BBY-R114	PAVEMENT RESTORATION
BBY-R115	PERMANENT PAVEMENT RESTORATION AREAS
BBY-R116	PERMANENT PAVEMENT RESTORATION AREAS AT AN INTERSECTION
BBY-R117	TRAFFIC CALMING, SPEED HUMP AND TABLE
BBY-R118	ROADWAY CONCRETE SLAB TYPICAL RESTORATION

CONCRETE AND MISCELLANEOUS DETAILS

BBY-C101	SIDEWALK DETAILS
BBY-C102A	DRIVEWAY CROSSING (SEPARATED SIDEWALKS)
BBY-C102B	DRIVEWAY CROSSING (ABUTTING SIDEWALKS)
~~BBY-C103~~	~~MONOLITHIC CURB & SIDEWALK DETAILS~~
~~BBY-C104~~	~~WHEELCHAIR RAMP~~
BBY-C105	CURB DETAILS
BBY-C106	PIPE BARRIER FOR SIDEWALKS
BBY-C107	TREE SURROUND
~~BBY-C108~~	~~DRAIN TILE DETAILS~~
BBY-C109	STAIR DETAILS
BBY-C110	STANDARD ARRANGEMENT OF CONNECTOR WALKS & STEPS TO PROPERTIES BELOW STREET LEVEL WHEN RETAINING WALL IS REQUIRED
BBY-C111	STANDARD ARRANGEMENT OF CONNECTOR WALKS & STEPS TO PROPERTIES ABOVE STREET LEVEL WHEN RETAINING WALL IS REQUIRED
BBY-C112	STANDARD ARRANGEMENT OF CONNECTOR WALKS & STEPS TO PROPERTIES ABOVE STREET LEVEL WHEN RETAINING WALL IS NOT REQUIRED
BBY-C113	STANDARD ARRANGEMENT OF CONNECTOR WALKS & STEPS TO PROPERTIES BELOW STREET LEVEL WHEN RETAINING WALL IS NOT REQUIRED
BBY-C114	STANDARD ARRANGEMENT OF CONNECTOR WALKS & STEPS TO PROPERTIES ABOVE STREET LEVEL WHERE RETAINING WALL IS REQUIRED AND WALL EXISTS AT PROPERTY
BBY-C115	STANDARD ARRANGEMENT OF CONNECTOR WALKS & STEPS TO PROPERTIES BELOW STREET LEVEL WHERE RETAINING WALL IS REQUIRED AND WALL EXISTS AT PROPERTY
~~BBY-C116~~	~~GRAVITY RETAINING WALLS~~
BBY-C117	BICYCLE GUARD RAIL
~~BBY-C118~~	~~SPLIT STONE REVETMENT~~
BBY-C119	HAND RAILING DETAIL
BBY-C120	SINGLE GATE DETAILS
BBY-C121	TRAIL BOLLARD
BBY-C122	PRECAST REINFORCED CONCRETE BARRIER
BBY-C123	SURVEY MONUMENT
BBY-C124A	SEPARATED DOUBLE RAMP SEPARATED DOUBLE
BBY-C124B	WHEELCHAIR RAMP DOUBLE RAMP – ABUTTING WALK
BBY-C125A	WHEELCHAIR RAMP SEPARATED SINGLE LARGE
BBY-C125B	WHEELCHAIR RAMP SINGLE LARGE – ABUTTING WALK
BBY-C126	WHEELCHAIR RAMP SINGLE DIRECTIONAL
BBY-C127A	WHEELCHAIR RAMP LOCAL RESIDENTIAL STREET DIAGONAL SEPARATED SIDEWALKS
BBY-C127B	WHEELCHAIR RAMP LOCAL RESIDENTIAL STREET DIAGONAL ABUTTING SIDEWALKS
BBY-C128	WHEELCHAIR RAMP INTERIM ABUTTING LIMITED SPACE

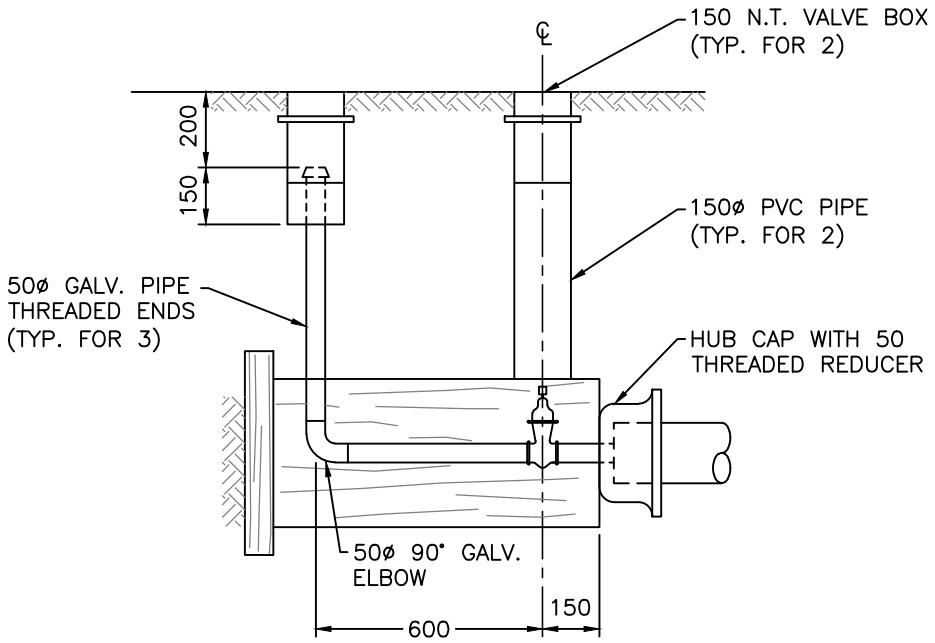
BBY-C129	ROUND CONCRETE BASES FOR ROUND STEEL SIGN POSTS (PRECAST OR POURED IN PLACE)
BBY-C130	ROUND CONCRETE BASES FOR ROUND STEEL SIGN POSTS (IN DIRT, SOD, GRAVEL)

ELECTRICAL DETAILS

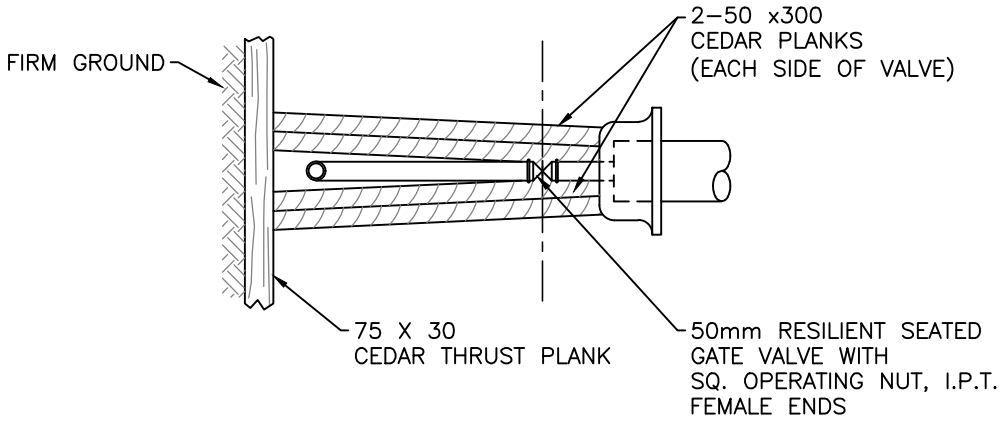
BBY-E101	CONDUIT TRENCH CONSTRUCTION
~~BBY-E102~~	~~LOCATION OF STREET LIGHTING POLES~~
BBY-E103	BERESFORD STREET TOWN CENTRE POLE
BBY-E104	TOWN CENTRE STREET LIGHT POLES
BBY-E115	PERDESTRIAN SIGNAL HEAD DETAILS
BBY-E116A	TRANSIT SHELTER INSTALLATION DETAILS SEPARATED SIDEWALK
BBY-E116B	TRANSIT SHELTER INSTALLATION DETAILS EXISTING ABUTTING SIDEWALK
~~BBY-E117~~	~~TYPICAL COMBINED STREET LIGHTING & RECEPTACLE SERVICE PANEL~~
BBY-E201	ELECTRICAL JUNCTION BOXES CONCRETE COMPOSITE
BBY-E205	TRENCH DETAILS FOR CONDUITS IN PAVED OR NON-PAVED AREAS
BBY-E206	COMMUNICATION JUNCTION BOX INSTALLATION DETAILS
BBY-E207	COMMUNICATION SPLICE VAULT
BBY-E208	CONDUIT ROUTING INTO COMMUNICATION BOXES / VAULTS
BBY-E401	RRFB CROSSWALK INSTALLATION
BBY-E403C	CUSTOM PED/BIKE CROSSWALK SIGN
BBY-E403D	CUSTOM PED/BIKE CROSSWALK SIGNS

LANDSCAPE DETAILS

BBY-L110	BOULEVARD TREE PLANTING DETAIL FOR SOFTSCAPE
BBY-L111	BOULEVARD TREE PLANTING DETAIL FOR HARDSCAPE
BBY-L112	TREE PROTECTION DETAILS IN STREET BOULEVARDS
BBY-L113	TREE PROTECTION DETAILS IN OPEN AREAS



ELEVATION



PLAN

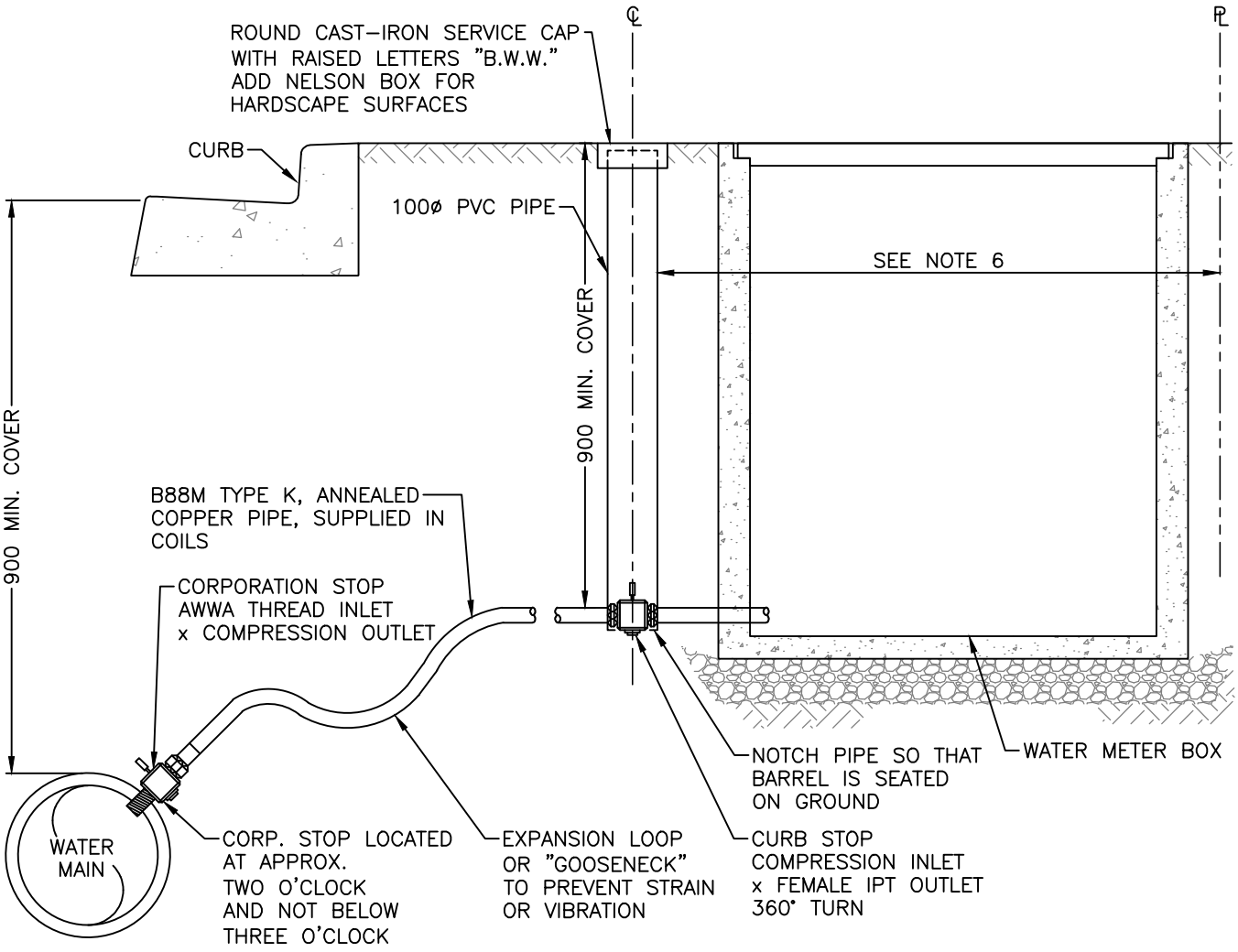
NOTES:
1. HUB CAP SHALL BE TER–MECH JOINT.
2. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
3. IF FINAL CONNECTION TO THE EXISTING WATER SYSTEM IS SCHEDULED TO BE PERFORMED WITHIN 90 DAYS, THE 50mm GATE VALVE CAN BE A WHEEL OPERATED AWWA STANDARD GATE VALVE.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TEMPORARY END OF WATERMAIN

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W101
CHECKED BY:	DL	DATE:	JULY 2026	

2026



NOTES:

1. 20mmø CONNECTIONS SHALL BE INSTALLED WITH SERVICE SADDLE INTO D.I. MAINS.
2. 25mmø CONNECTIONS SHALL BE INSTALLED WITH SERVICE SADDLE AND DOUBLE STAINLESS STEEL STRAPS.
3. ALL BALL VALVES SHALL BE FULL FLOW, FULL PORT.
4. FOR DITCH CROSSINGS MINIMUM DEPTH OF COVER OVER THE SERVICE CONNECTION SHALL BE 1.5m MEASURED FROM THE CROWN OF THE ROAD OR 0.3m BELOW DITCH INVERT WHICHEVER IS GREATER.
5. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
6. REFER TO CURRENT VERSION OF WATER METER DESIGN GUIDELINES AND SUPPLEMENTARY SPECIFICATIONS.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

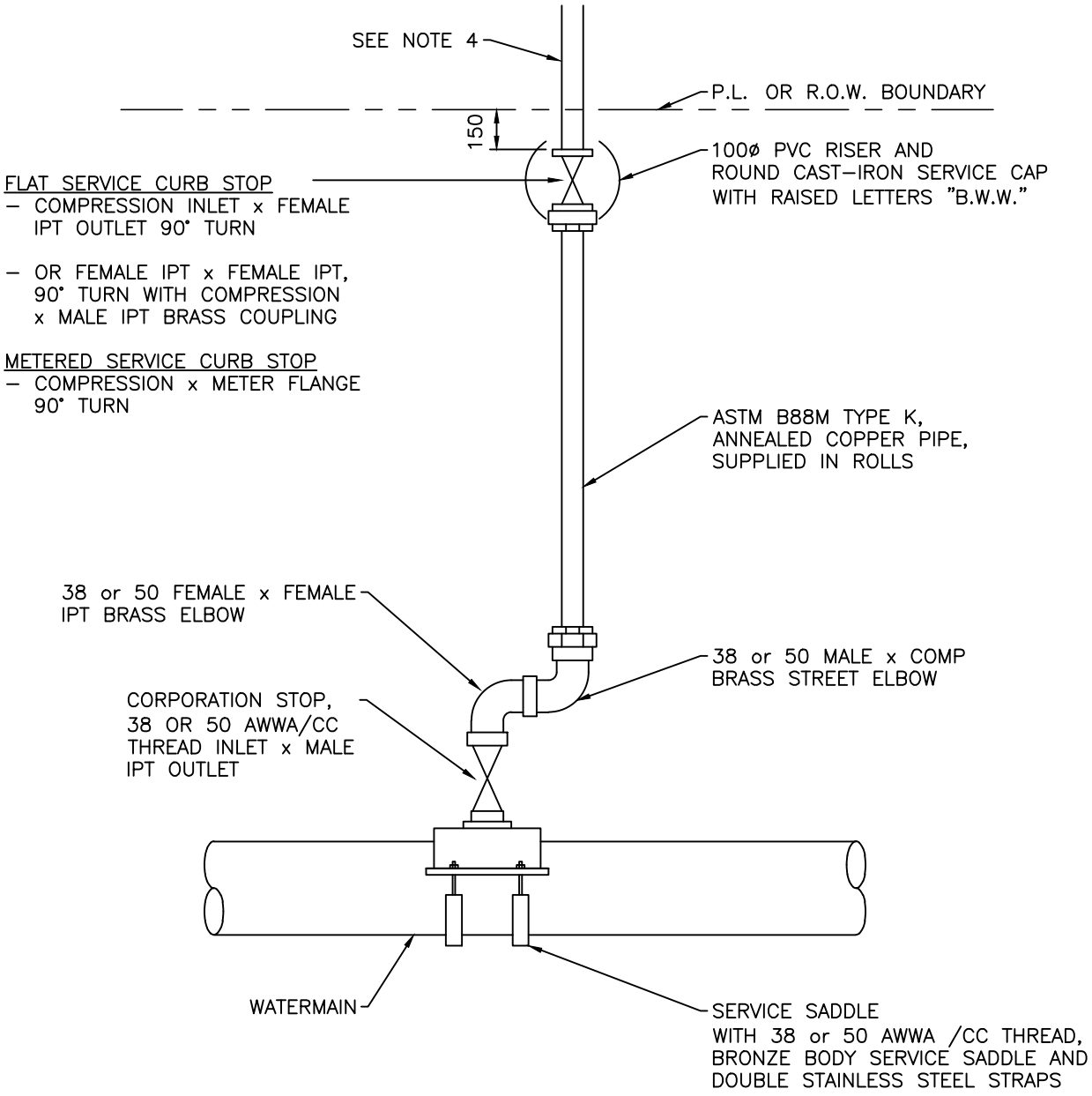
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL 20mm & 25mm SERVICE CONNECTION

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	DL	DATE:	JULY 2026

BBY- W102

2026



NOTES

1. MINIMUM 0.9m COVER EXCEPT DITCH CROSSINGS SHALL BE 1.5m OF COVER MEASURED FROM THE CROWN OF THE ROAD.
2. ALL BALL VALVES SHALL BE FULL FLOW, FULL PORT.
3. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
4. REFER TO CURRENT VERSION OF WATER METER DESIGN GUIDELINES AND SUPPLEMENTARY SPECIFICATIONS.
5. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

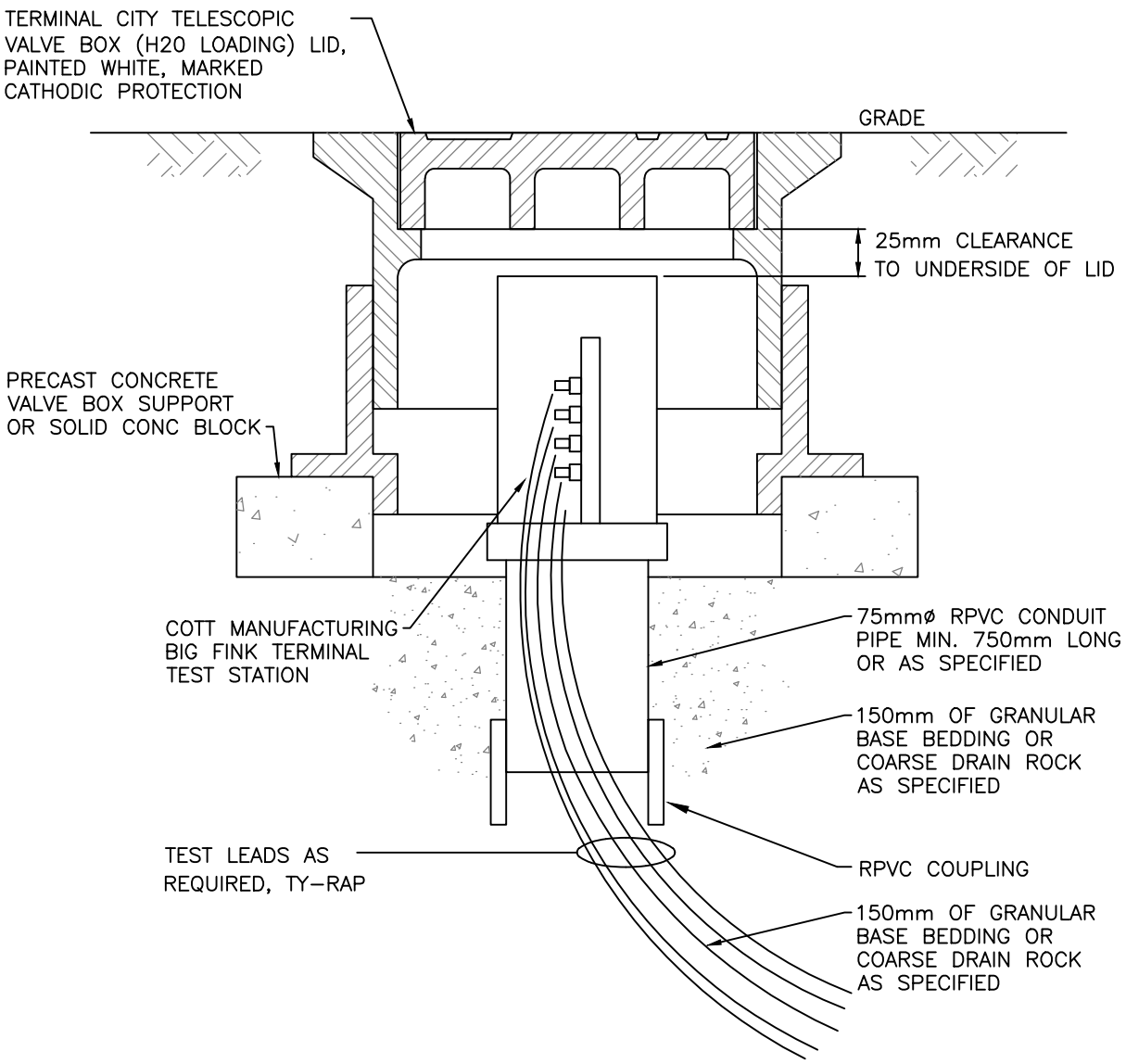
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL 38mm & 50mm SERVICE CONNECTION

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	DL	DATE:	JULY 2026

BBY- W103

2026



NOTES:

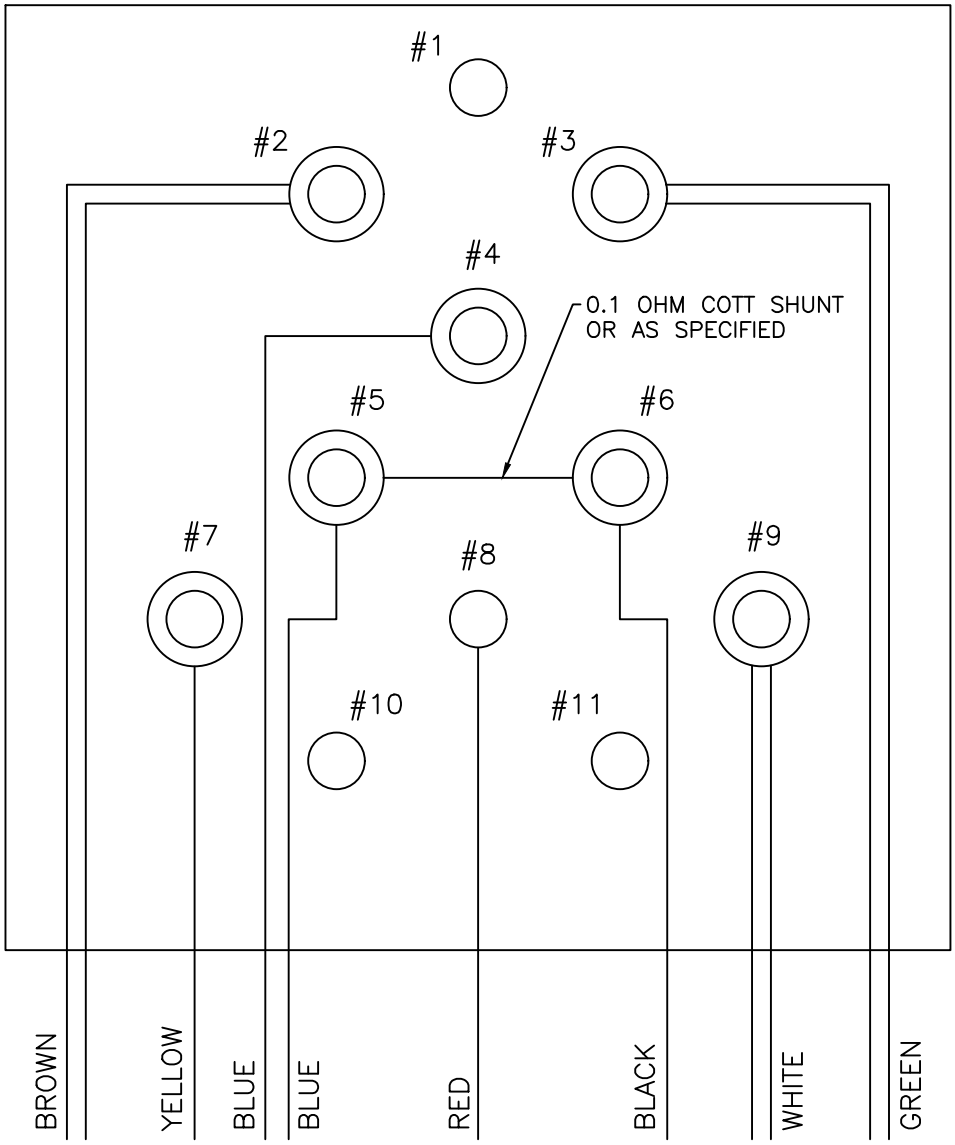
1. TEST STATION LOCATED BEHIND ROAD CURB (SIDEWALK) OR DIRECTLY OVER PIPE ABOVE WIRE CONNECTION POINT AS SPECIFIED.
2. TERMINAL BLOCK AND LEADS SHALL EXTEND MIN. 500mm ABOVE VALVE BOX GRADE.
3. NO BEDDING MATERIAL INSIDE VALVE BOX OR PVC PIPE.
4. WHERE TEST LEADS ARE UNDER THE ROADWAY, THEY SHALL BE BURIED A MINIMUM 900mm BELOW THE ROAD, WITH WARNING TAPE 300mm ABOVE THE LEADS.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CATHODIC PROTECTION
GROUND LEVEL TEST STATION DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W104
CHECKED BY:	DL	DATE:	JULY 2026	

2026



TERMINAL BOARD CONNECTIONS

#1 – SPARE

#2 – CONNECTION TO UNPROTECTED LATERAL OR SERVICE – BROWN TERMINAL

#3 – CONNECTION TO FOREIGN UTILITY – GREEN TERMINAL

#4 – SACRIFICIAL MAGNESIUM ANODE (SPARE) – BLUE TERMINAL

#5 – SACRIFICIAL MAGNESIUM ANODE – BLUE TERMINAL

#6 – CONNECTION TO PROTECTED MAIN – BLACK TERMINAL

#7 – CONNECTION TO PROTECTED MAIN (SPARE) – YELLOW TERMINAL

#8 – CONNECTION TO ZINC REFERENCE ELECTRODE – RED TERMINAL

#9 – CONNECTION TO UNPROTECTED MAIN – WHITE TERMINAL

#10,11 – SPARE

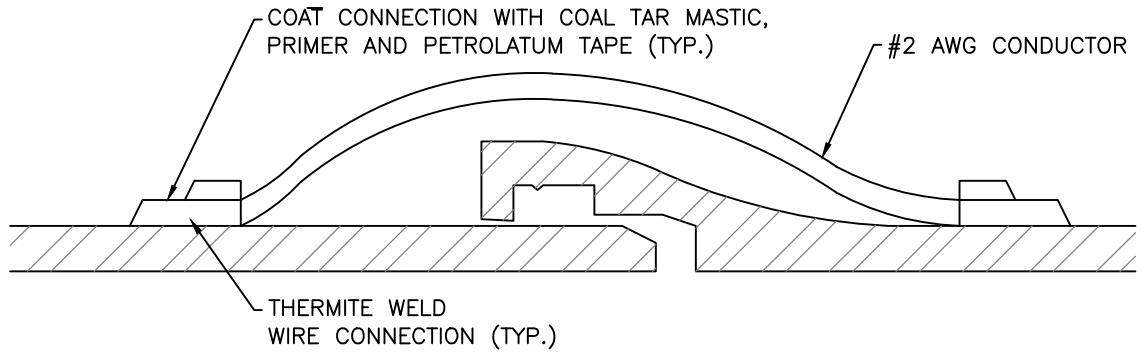
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

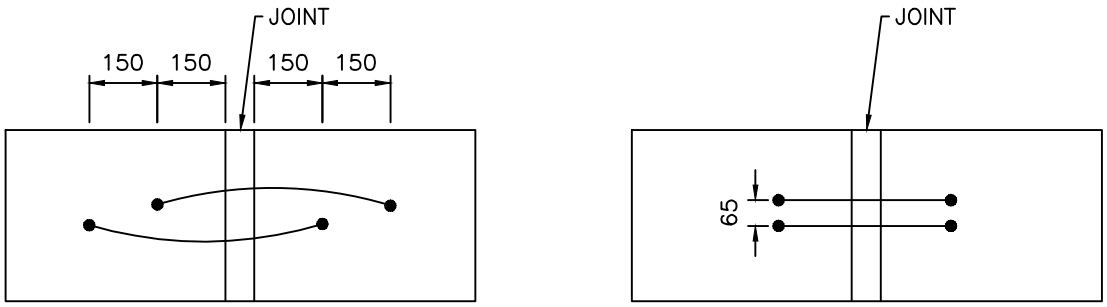
BIG FINK TEST STATION TERMINAL

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	DL	DATE:	JULY 2026

BBY- W105

2026

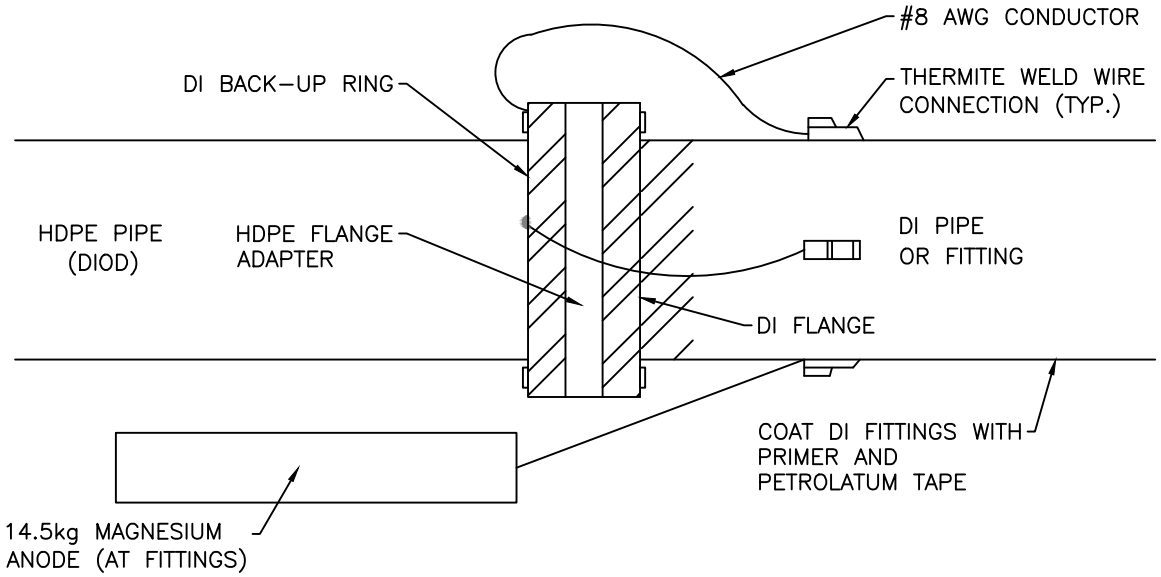




FOR PIPES < 300mmø

FOR PIPES >= 300mmø

STEEL OR DI PIPE CONNECTION



HDPE TO DI FLANGE CONNECTION

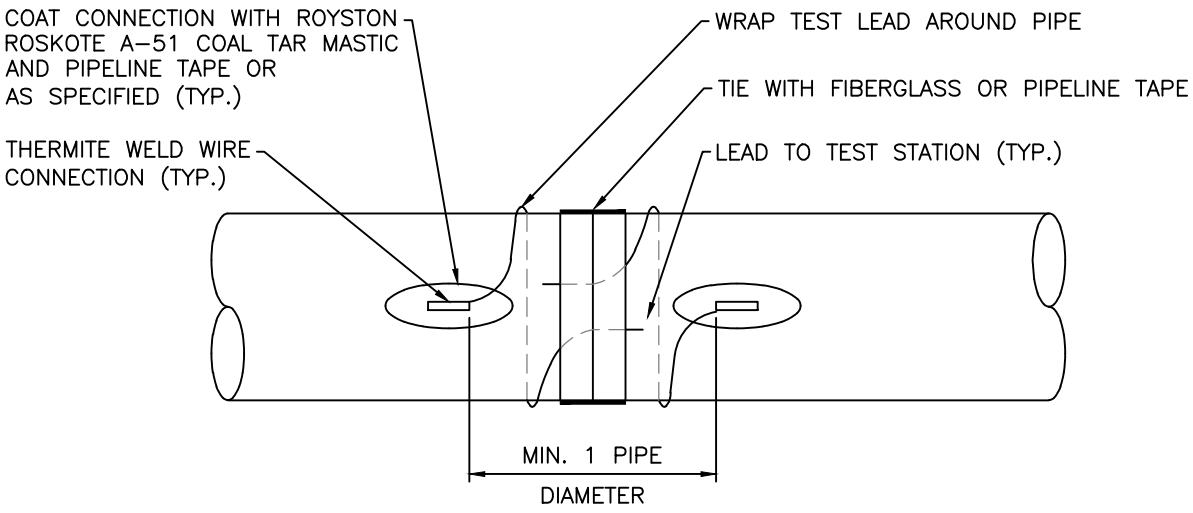
NOTES:
1. PROVIDE SUFFICIENT SLACK IN BOND CABLE TO ALLOW APPLICATION OF PETROLATUM TAPE ON PIPE OR FITTING UNDER THE BOND CABLES.
2. CONDUCTORS SHALL BE STRANDED COPPER, TYPE RWU90 XLPE INSULATED, WHITE IN COLOUR.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

JOINT CONTINUITY BOND

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W106
CHECKED BY:	DL	DATE:	JULY 2026	

2026



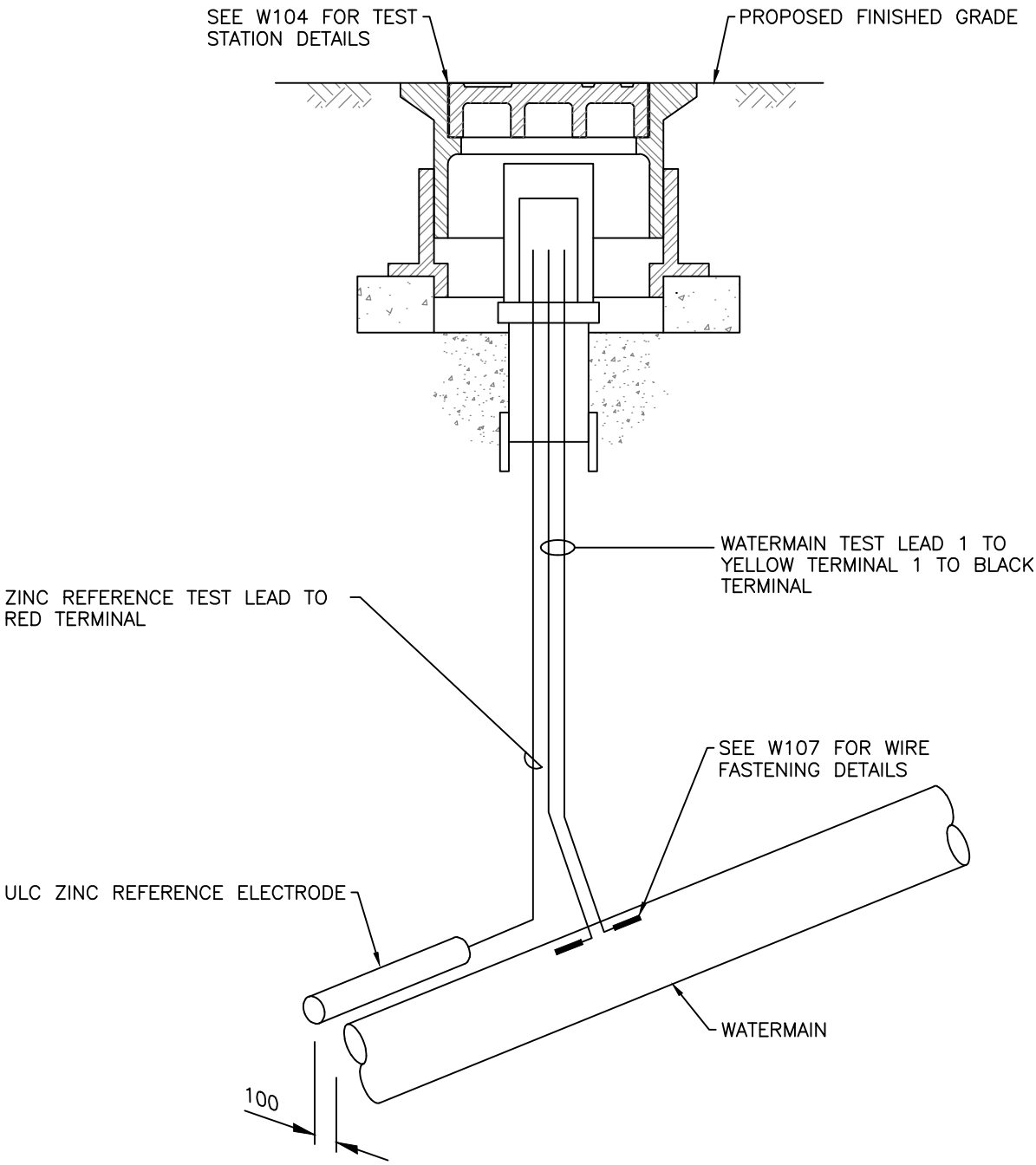
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

WIRE FASTENING DETAIL

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	DL	DATE:	JULY 2026

BBY- W107

2026



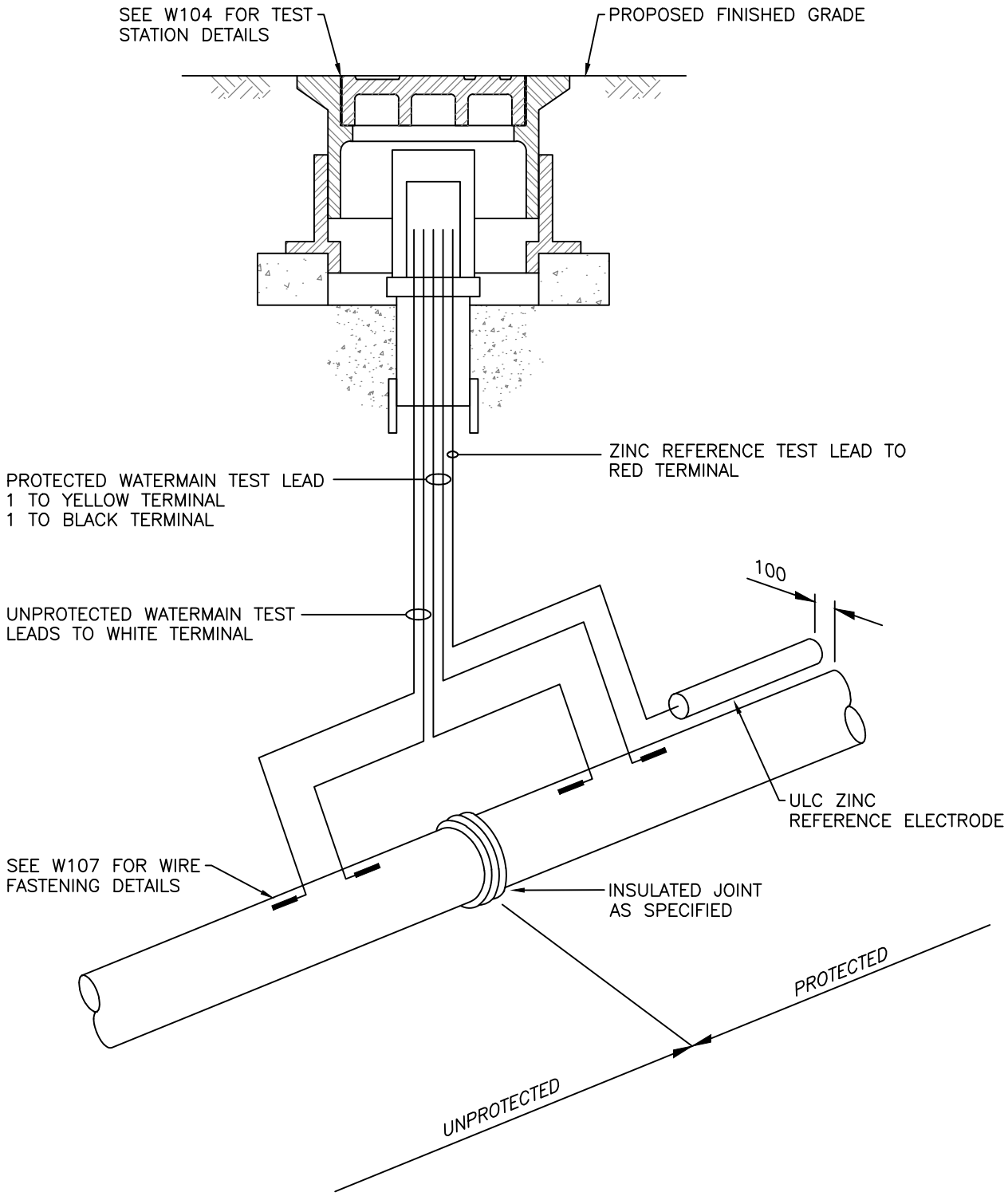
NOTES:

1. ALL CONDUCTORS SHALL BE STRANDED COPPER, INSULATED TYPE RWU90 X–LINK.
2. ALL CONDUCTORS SHALL BE #10 AWG AND COLOUR CODED AS SHOWN FOR TERMINAL COLOUR.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STANDARD TEST STATION

DRAWN BY: SM	SCALE: N.T.S.	**BBY-** W108	2026
CHECKED BY: DL	DATE: JULY 2026		



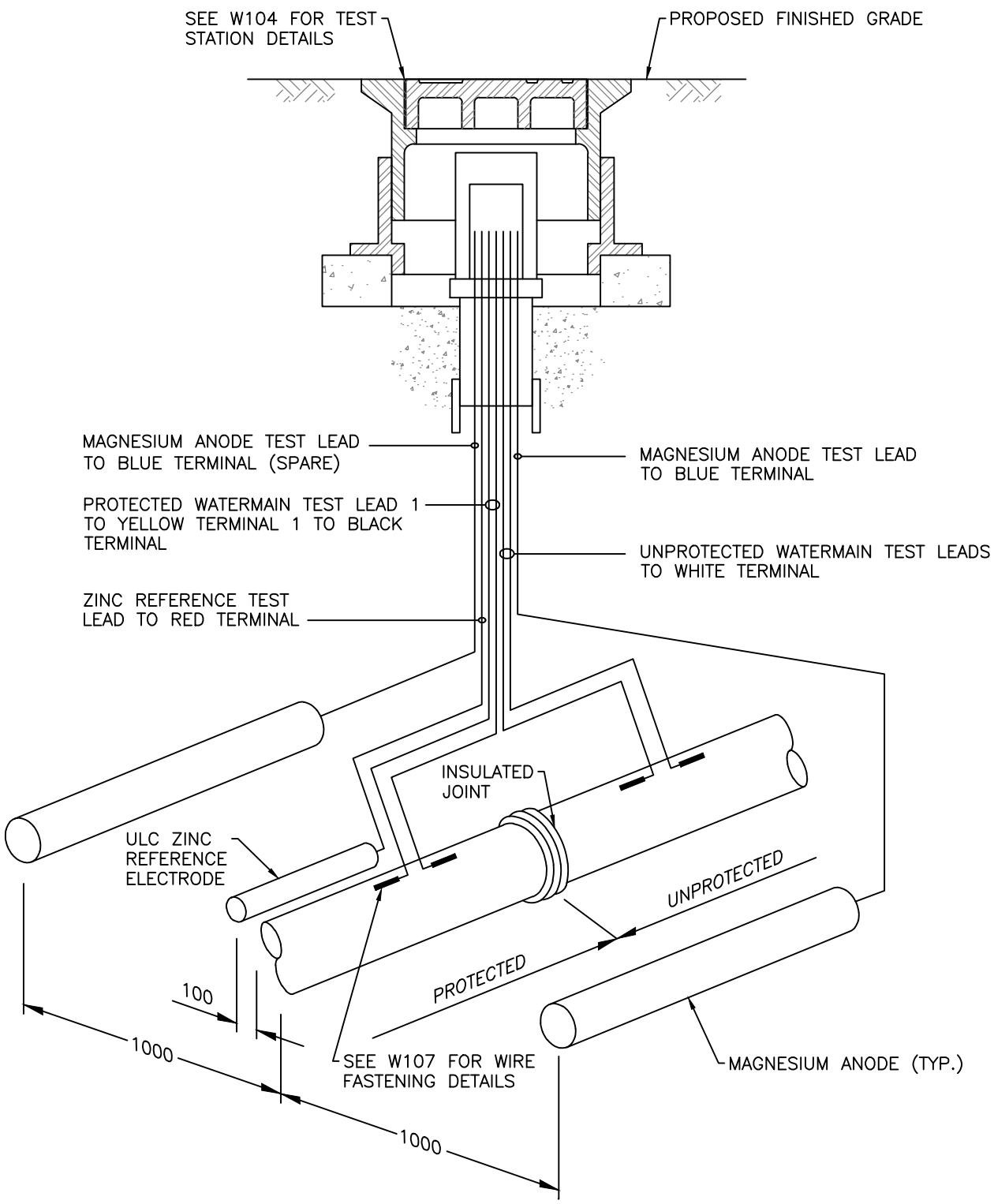
NOTES:
1. ALL CONDUCTORS SHALL BE STRANDED COPPER, INSULATED TYPE RWU90 X–LINK.
2. ALL CONDUCTORS SHALL BE #10 AWG AND COLOUR CODED AS SHOWN FOR TERMINAL COLOUR.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

ISOLATION TEST STATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W109
CHECKED BY:	DL	DATE:	JULY 2026	

2026



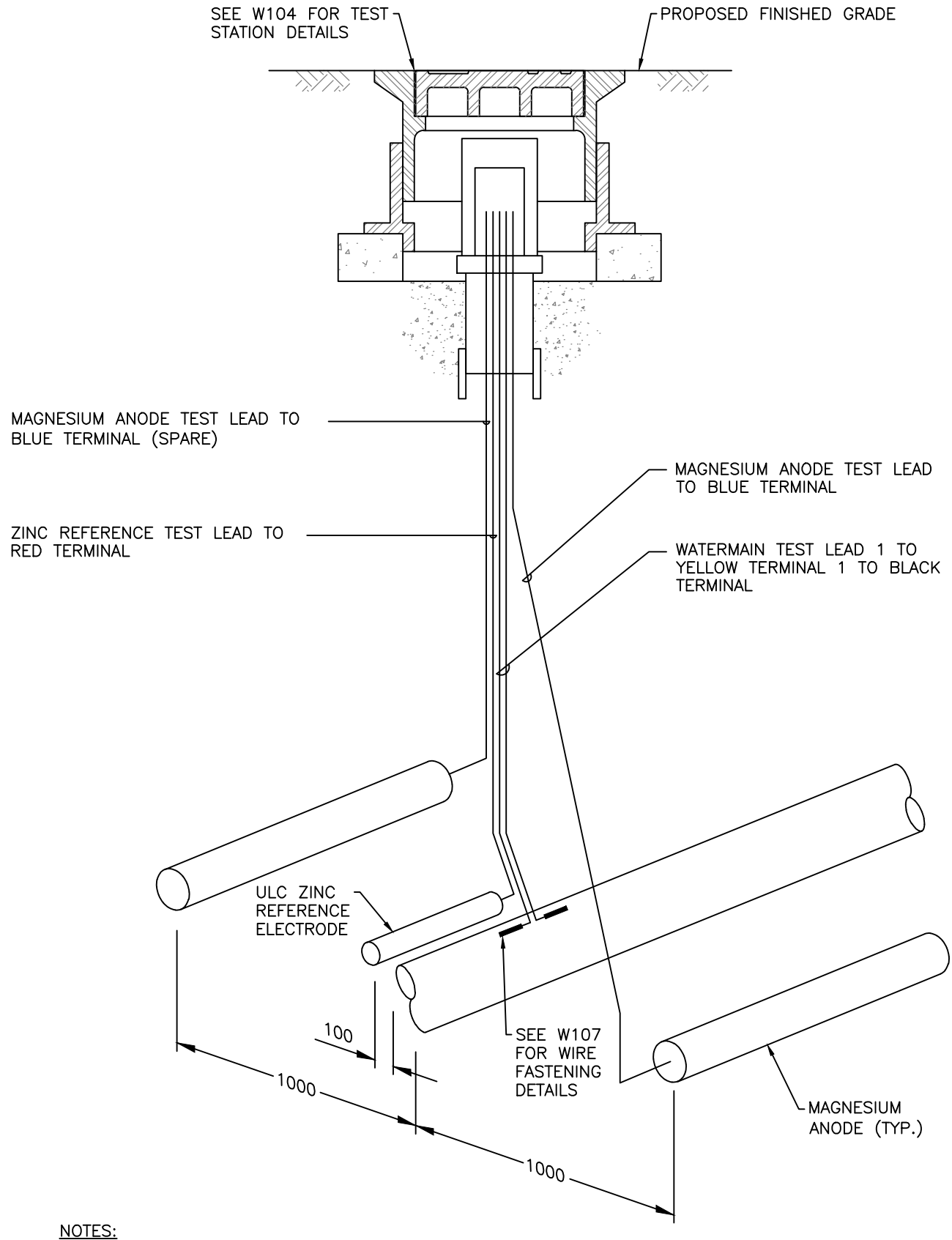
NOTES:
1. ALL CONDUCTORS SHALL BE STRANDED COPPER, INSULATED TYPE RWU90 X–LINK.
2. ALL CONDUCTORS SHALL BE #10 AWG AND COLOUR CODED AS SHOWN FOR TERMINAL COLOUR.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

SACRIFICIAL ANODE STATION @ ISOLATION TEST POINT

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W110
CHECKED BY:	DL	DATE:	JULY 2026	

2026



NOTES:

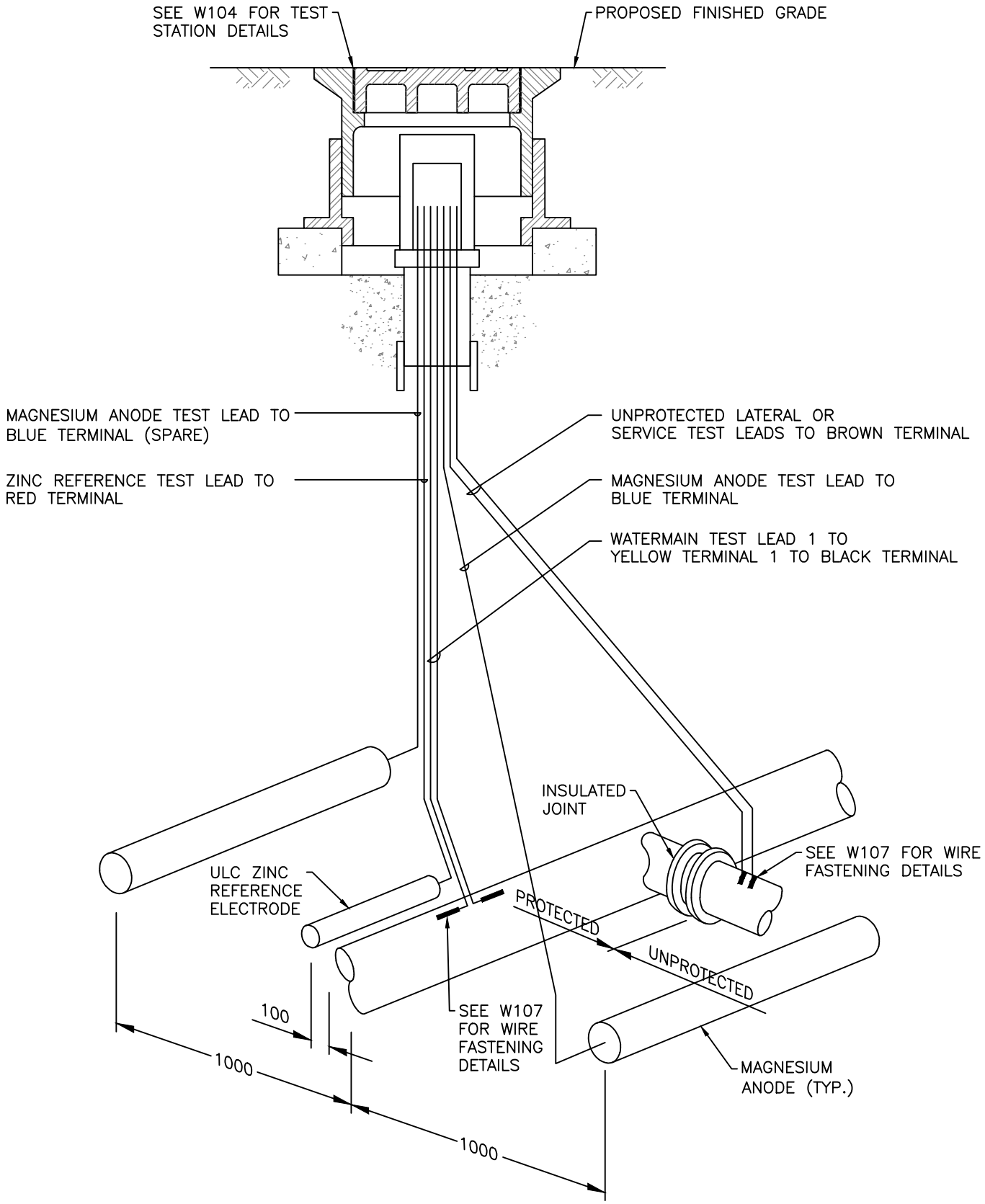
1. ALL CONDUCTORS SHALL BE STRANDED COPPER, INSULATED TYPE RWU90 X–LINK.
2. ALL CONDUCTORS SHALL BE #10 AWG AND COLOUR CODED AS SHOWN FOR TERMINAL COLOUR.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STANDARD SACRIFICIAL ANODE STATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W111
CHECKED BY:	DL	DATE:	JULY 2026	

2026



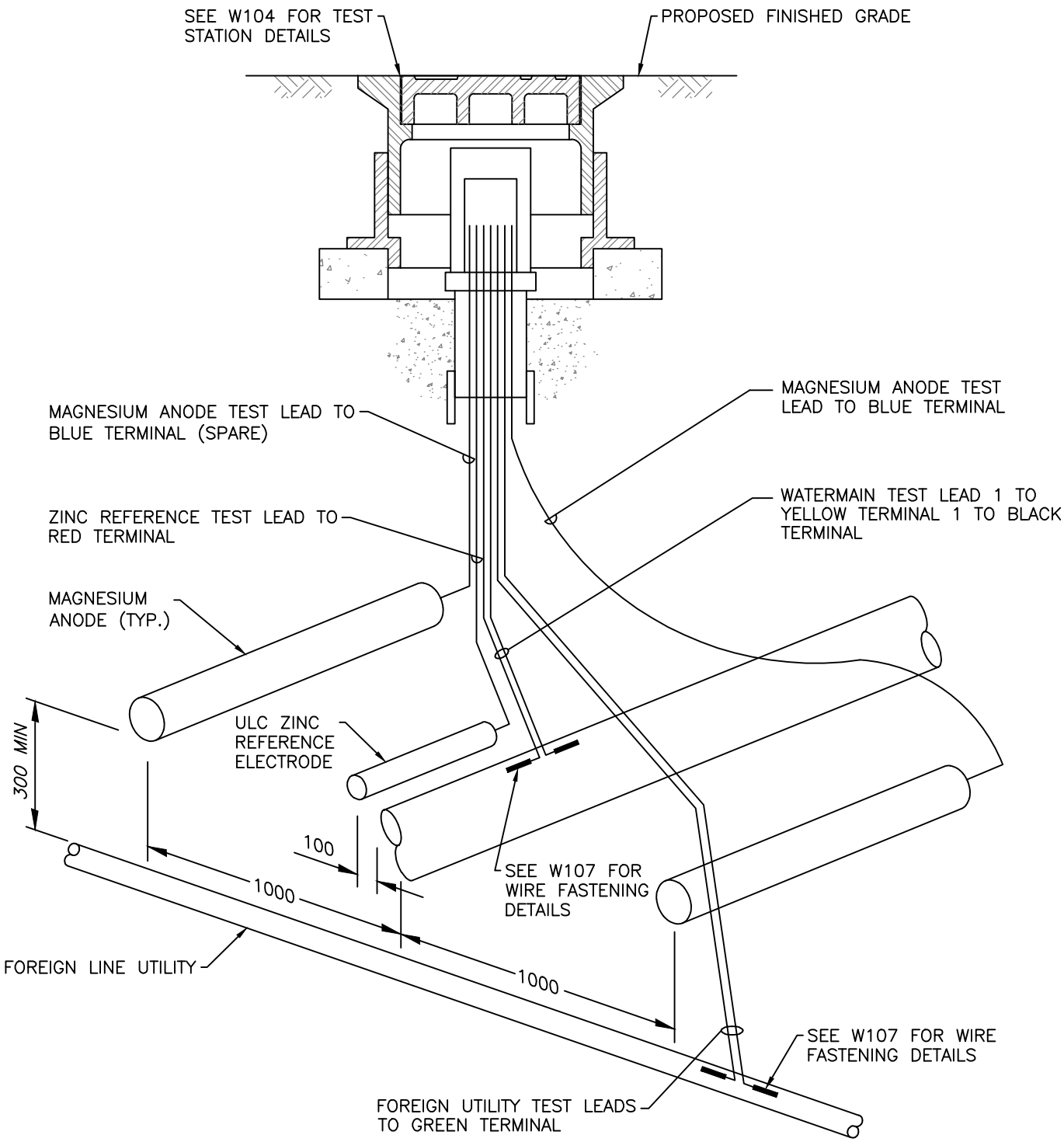
NOTES:
1. ALL CONDUCTORS SHALL BE STRANDED COPPER, INSULATED TYPE RWU90 X–LINK.
2. ALL CONDUCTORS SHALL BE #10 AWG AND COLOUR CODED AS SHOWN FOR TERMINAL COLOUR.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

SACRIFICIAL ANODE STATION WITH LATERAL OR SERVICE CONNECTION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W112
CHECKED BY:	DL	DATE:	JULY 2026	

2026



NOTES:

1. ALL CONDUCTORS SHALL BE STRANDED COPPER, INSULATED TYPE RWU90 X–LINK.
2. ALL CONDUCTORS SHALL BE #10 AWG AND COLOUR CODED AS SHOWN FOR TERMINAL COLOUR.
3. CONNECTION TO FOREIGN UTILITY AS PER THE UTILITY APPROVAL PERMIT.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

FOREIGN UTILITY TEST STATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W113
CHECKED BY:	DL	DATE:	JULY 2026	

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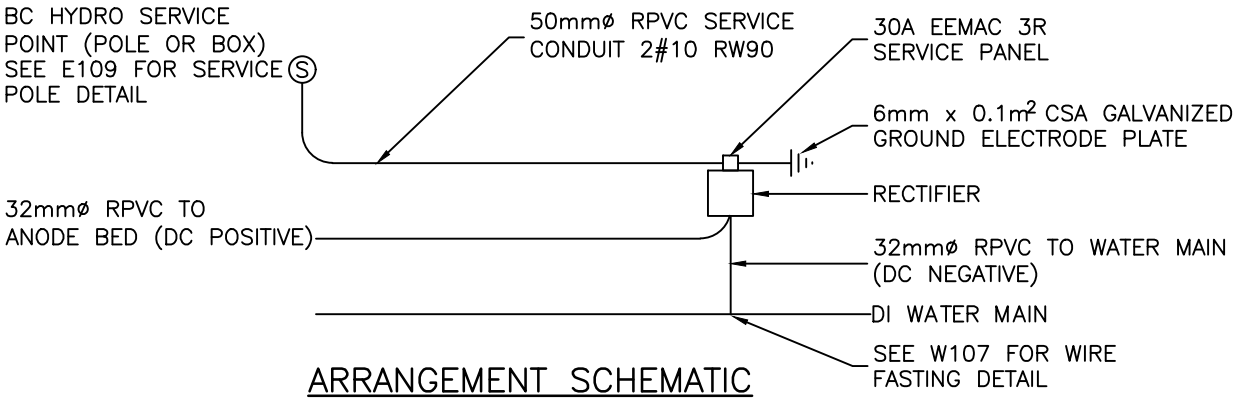
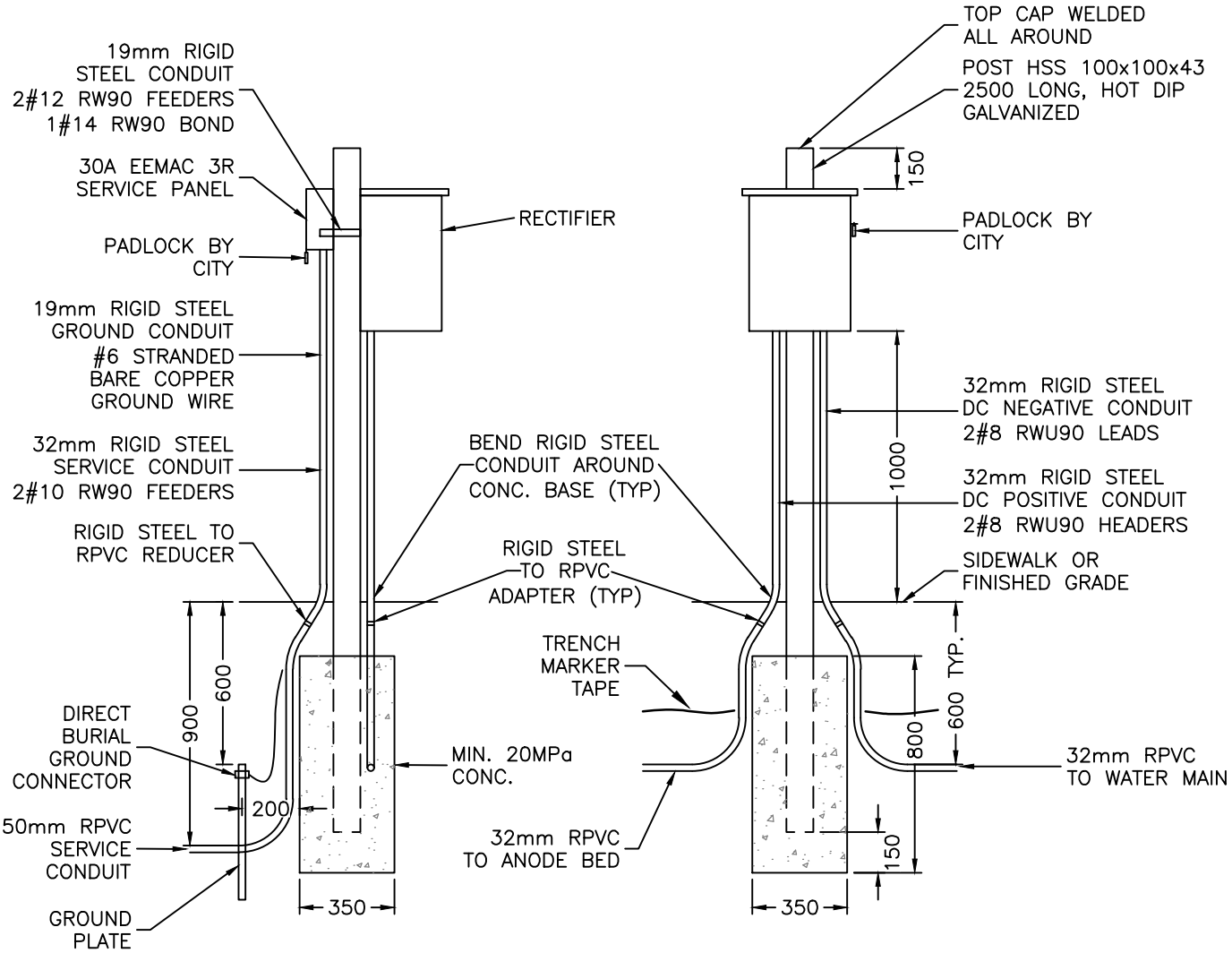


ARRANGEMENT SCHEMATIC



SIDE ELEVATION

FRONT ELEVATION

NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

IMPRESSED CURRENT CATHODIC PROTECTION RECTIFIER INSTALLATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W114
CHECKED BY:	DL	DATE:	JULY 2026	

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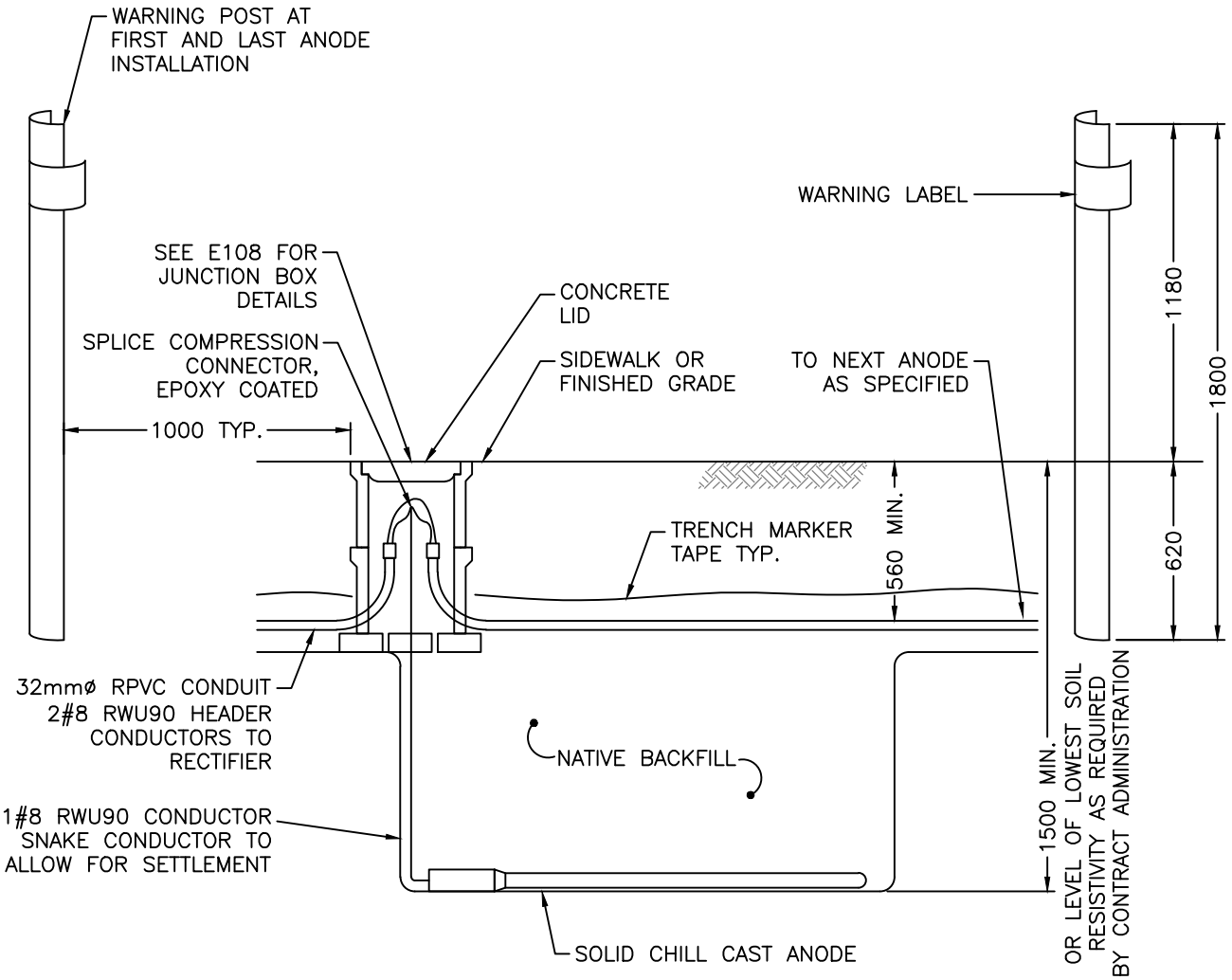


NOTES:
1. SPACE ANODES 6m APART WHEN 2 OR MORE ANODES ARE SPECIFIED.
2. ALTERNATE ANODE CONNECTIONS TO HEADER CONDUCTORS WHEN 2 OR MORE ANODES ARE SPECIFIED.
3. HEADER CONDUCTORS SPLICED TOGETHER AT LAST ANODE JUNCTION BOX TO PROVIDE CONTINUOUS LOOP TO RECTIFIER.
4. COIL MIN. 0.5m OF CONDUCTORS IN JUNCTION BOX TO ALLOW FOR SETTLEMENT.
5. JUNCTION BOX REQUIRED FOR FIRST & LAST ANODE CONNECTIONS. OTHER SPLICES MAY BE DIRECT BURRIED AS APPROVED BY CONSTRUCTION ENGINEER.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

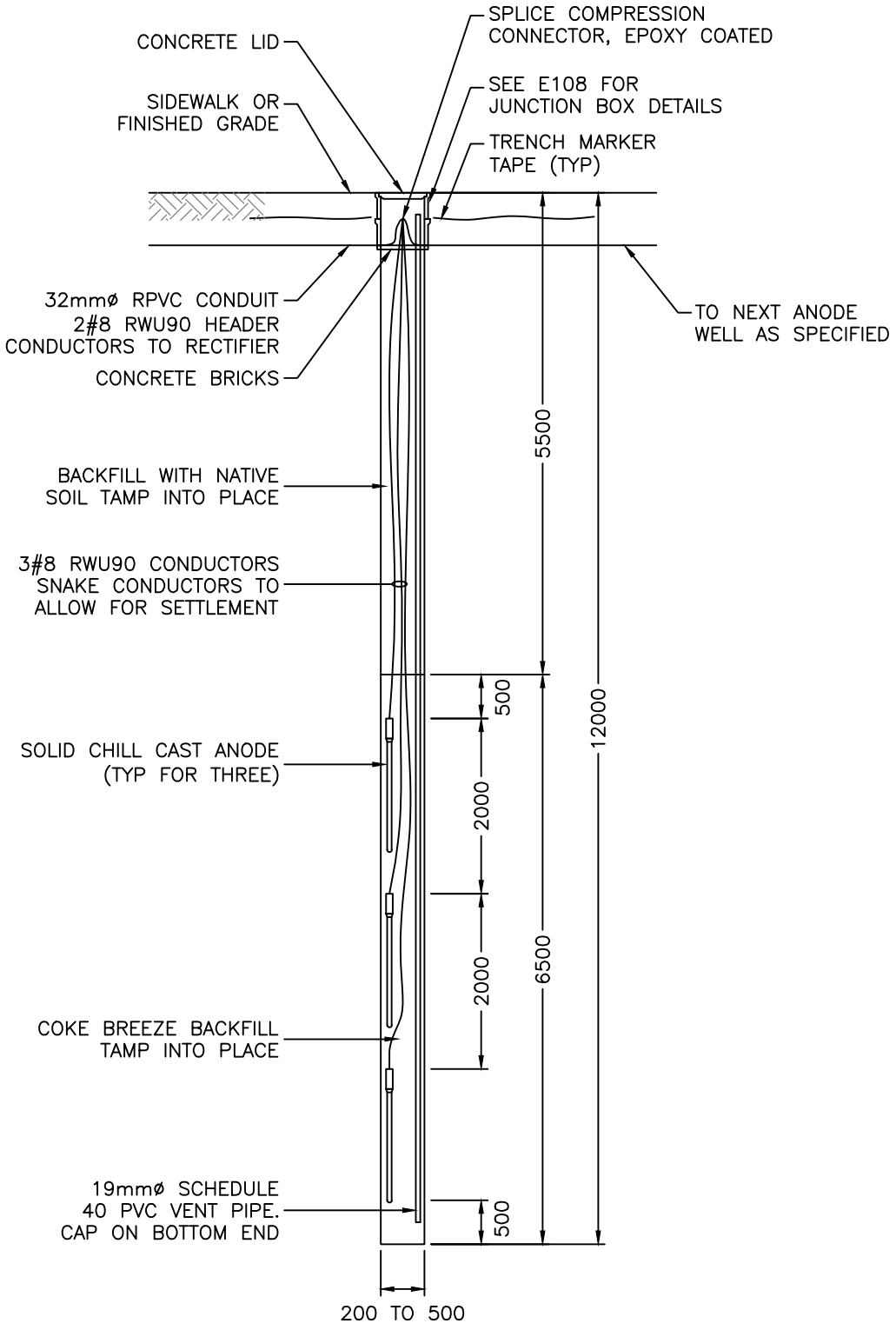
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

HORIZONTAL ANODE INSTALLATION

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	DL	DATE:	JULY 2026

BBY- W115

2026



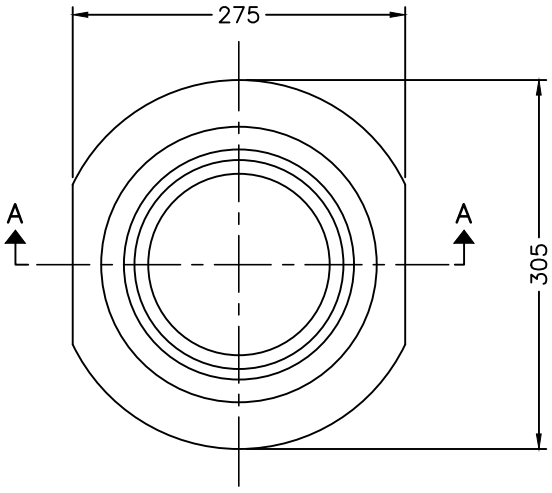
NOTES:
1. WHEN LESS THAN 3 ANODES ARE SPECIFIED, MAINTAIN MINIMUM COVER OF COKE BREEZE ABOVE AND BELOW ANODE AS SHOWN.
2. ALTERNATE ANODE CONNECTIONS TO HEADER CONDUCTORS WHEN 2 OR MORE ANODES ARE SPECIFIED.
3. HEADER CONDUCTORS SPLICED TOGETHER IN LAST WELL JUNCTION BOX TO PROVIDE CONTINUOUS LOOP TO RECTIFIER.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

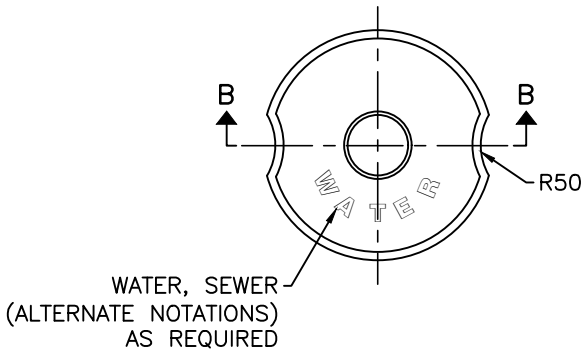
SEMI–DEEP ANODE WELL INSTALLATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W116
CHECKED BY:	DL	DATE:	JULY 2026	

2026



PLAN



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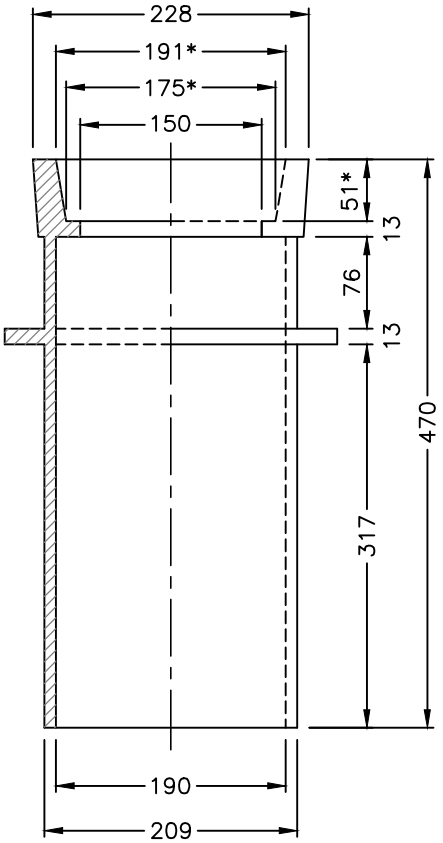
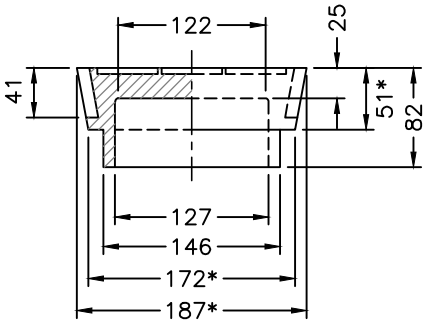


SECTION A–A
VALVE BOX



SECTION B–B
LID

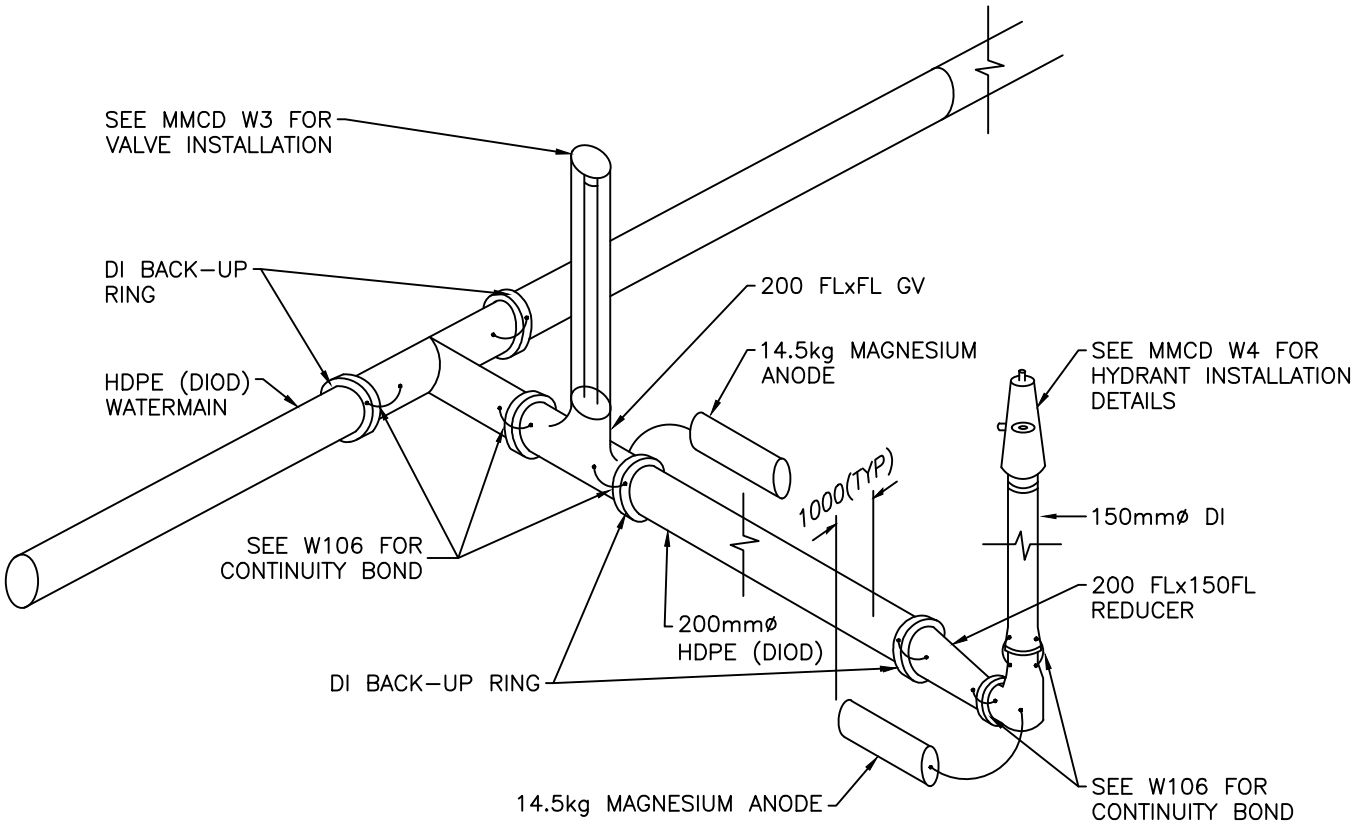
NOTES:
1. CASTINGS SHALL MEET ASTM A48 CLASS 25 GREY IRON SPECIFICATIONS.
2. CASTING FINISH SHALL BE BITUMINOUS DIP COATED.
3. CASTINGS SHALL MEET MINIMUM WEIGHT REQUIREMENTS:
   VALVE BOX & LID 38kg ±5%
4. ALLOWABLE TOLERANCE ON VALVE BOX AND LID SEATING DIMENSIONS (*) SHALL BE ±1%.
5. NELSON–TYPE VALVE BOX SHALL BE INSTALLED IN ALL CONCRETE SURFACES AND BOULEVARDS.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

NELSON–TYPE VALVE BOX

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W118
CHECKED BY:	DL	DATE:	JULY 2026	

2026



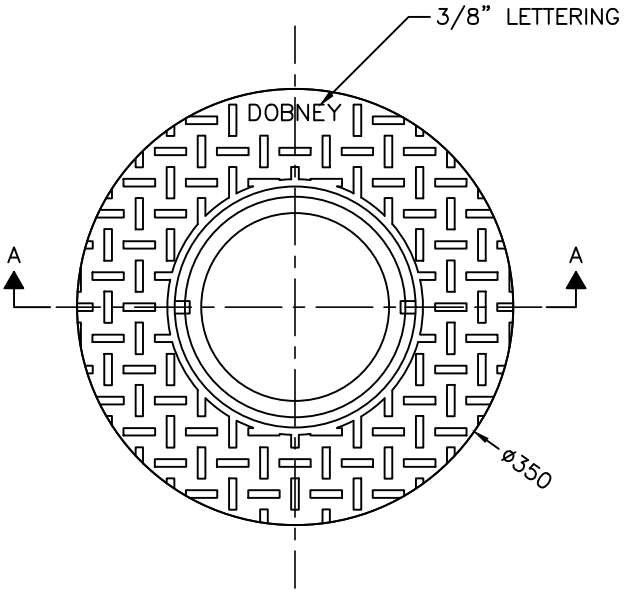
NOTES:
1. ALL HDPE PIPE TO BE DR11 DIOD.
2. HDPE PIPE TO HAVE FLANGE ADAPTER WITH A DI BACK–UP RING FOR CONNECTION TO ALL FITTINGS.
3. ALL BELOW GROUND DI PIPE AND FITTINGS TO BE COATED WITH PRIMER AND PETROLATUM TAPE.
4. BOND ALL CONNECTED DI FITTINGS TOGETHER.
5. PROVIDE 2 CONTINUITY BOND CONNECTIONS PER FITTING.
6. INSTALL ANODES PARALLEL TO HYDRANT CONNECTION PIPE.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

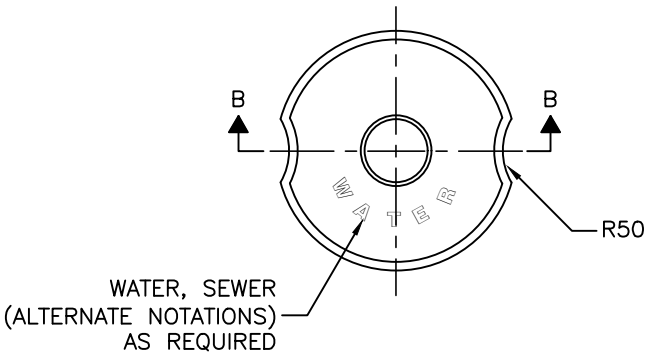
FIRE HYDRANT INSTALLATION FOR HDPE PIPE

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W119
CHECKED BY:	DL	DATE:	JULY 2026	

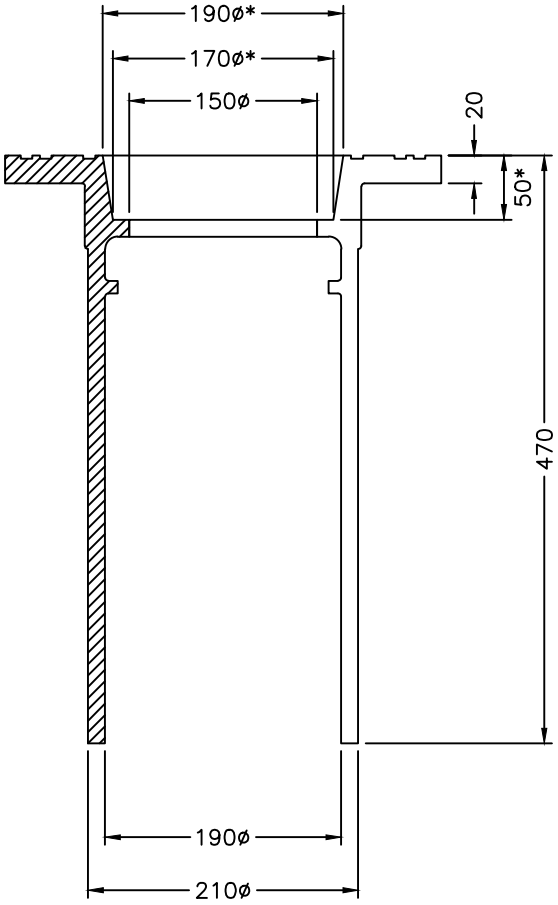
2026



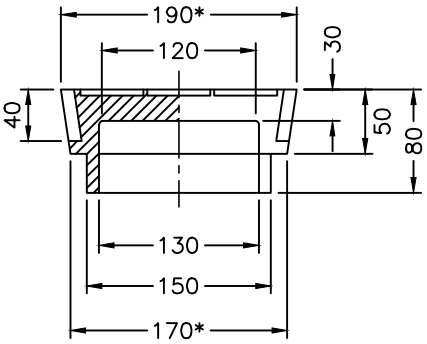
PLAN



PLAN



SECTION A–A
VALVE BOX



SECTION B–B
LID

NOTE:
1. CASTINGS SHALL MEET ASTM A48 CLASS 25 GREY IRON SPECIFICATIONS.
2. CASTING FINISH SHALL BE BITUMINOUS DIP COATED.
3. CASTINGS SHALL MEET MINIMUM WEIGHT REQUIREMENTS: VALVE BOX 31 kg ±5% & VALVE LID 6kg ±5%.
4. ALLOWABLE TOLERANCE ON VALVE BOX AND LID SEATING DIMENSIONS (*) SHALL BE ±1%.
5. MR6 VALVE BOX SHALL BE INSTALLED IN ALL ASPHALT PAVEMENT SURFACE.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

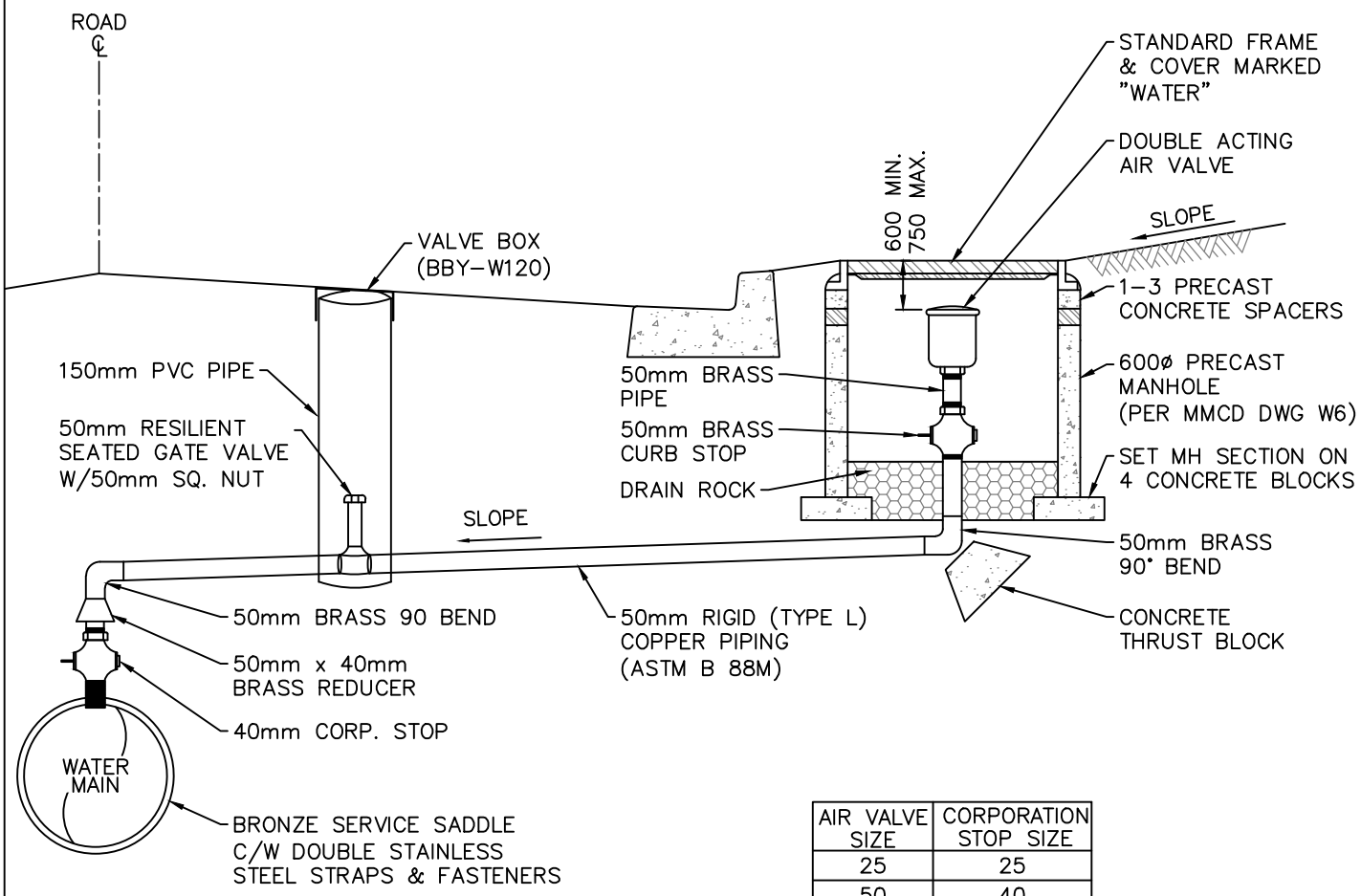
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

MR6 VALVE BOX

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	DL	DATE:	JULY 2026

BBY- W120

2026



AIR VALVE SIZE	CORPORATION STOP SIZE
25	25
50	40

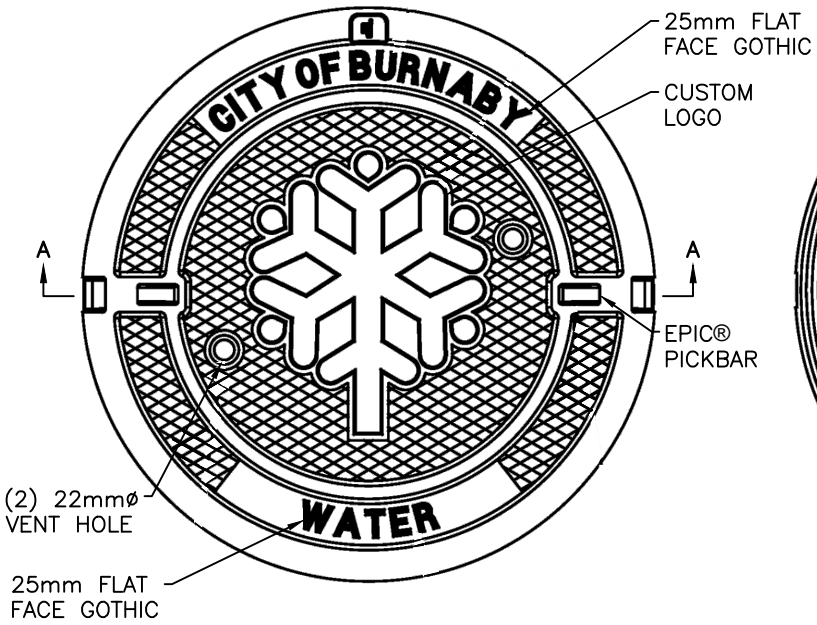
NOTES:
1. NOT TO BE USED IN AREAS WITH HIGH WATER TABLE. PROVIDE VENTING PIPE FROM AIR VALVE TO SURFACE C/W GOOSENECK WHERE SUBJECT TO FLOODING.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

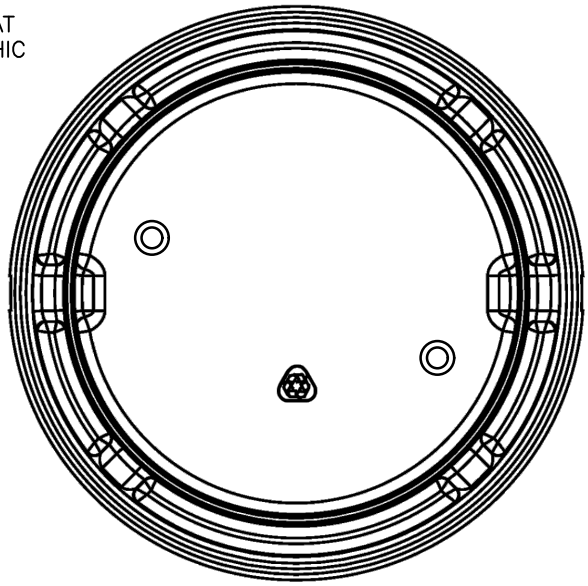
AIR VALVE ASSEMBLY
SHALLOW BURY APPLICATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W121
CHECKED BY:	DL	DATE:	JULY 2026	

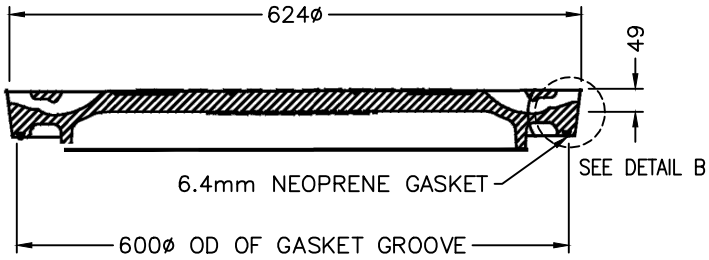
2026



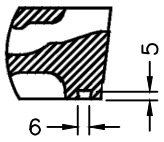
PLAN



BOTTOM VIEW



SECTION A–A



DETAIL B

NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

BURNABY WATER LID DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- W122
CHECKED BY:	DL	DATE:	JULY 2026	

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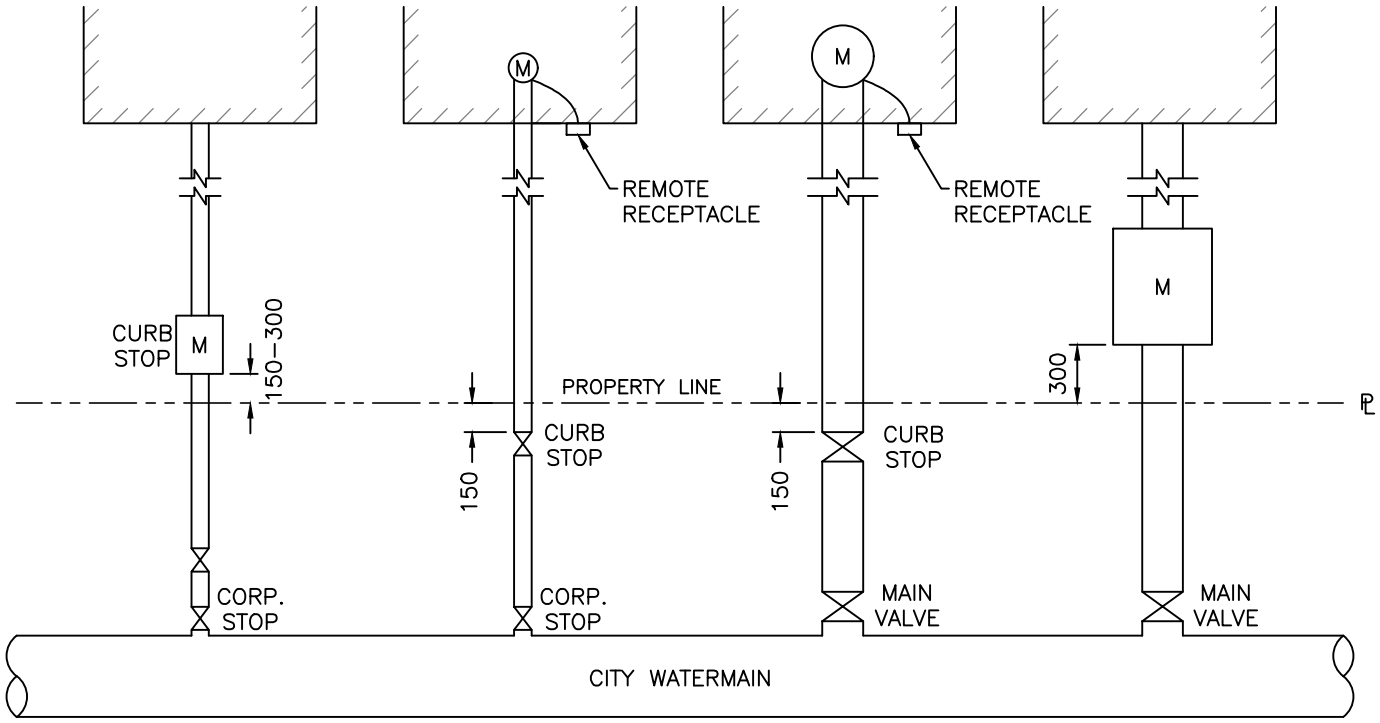
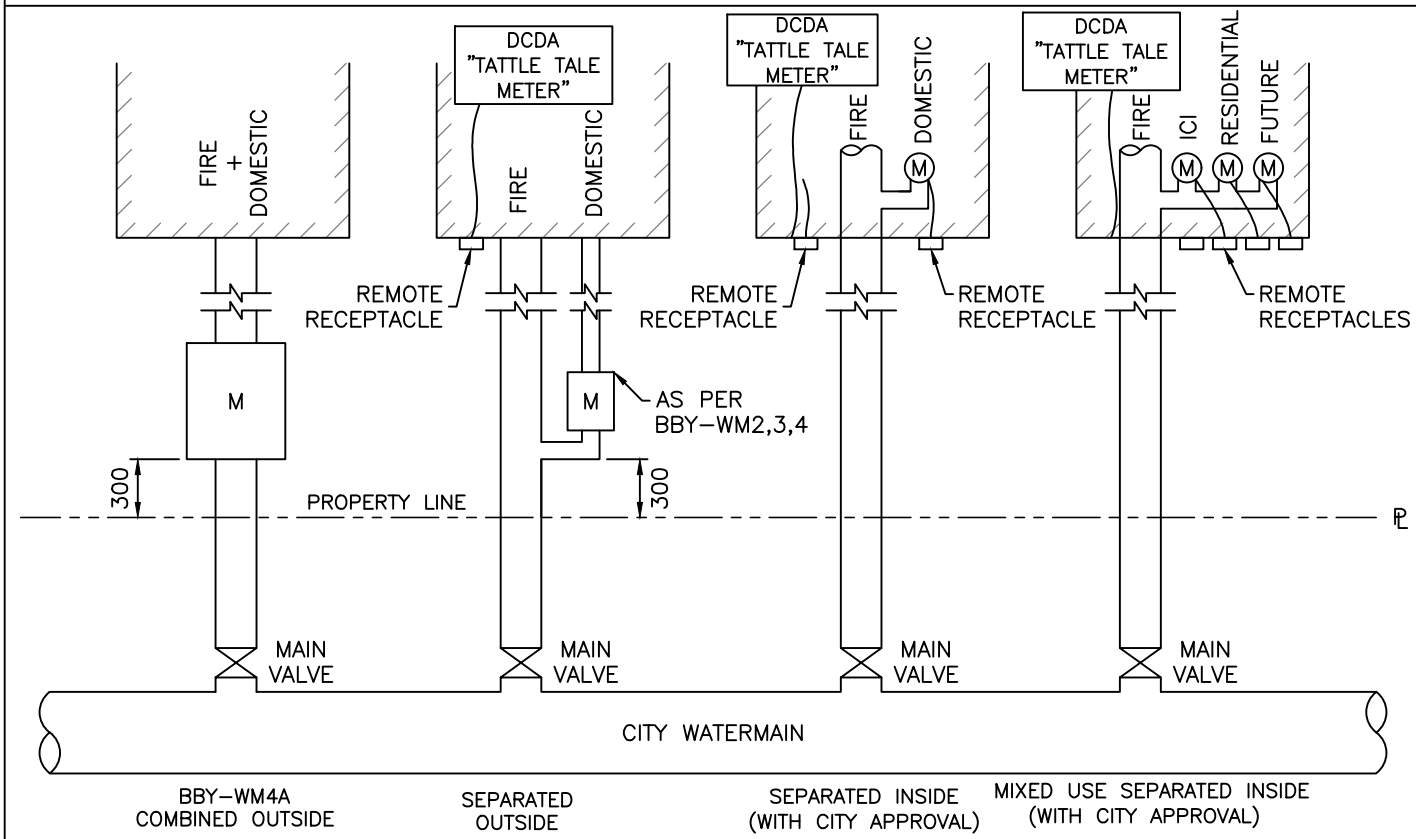


DOMESTIC SERVICE ONLY



DOMESTIC + FIRE SERVICES

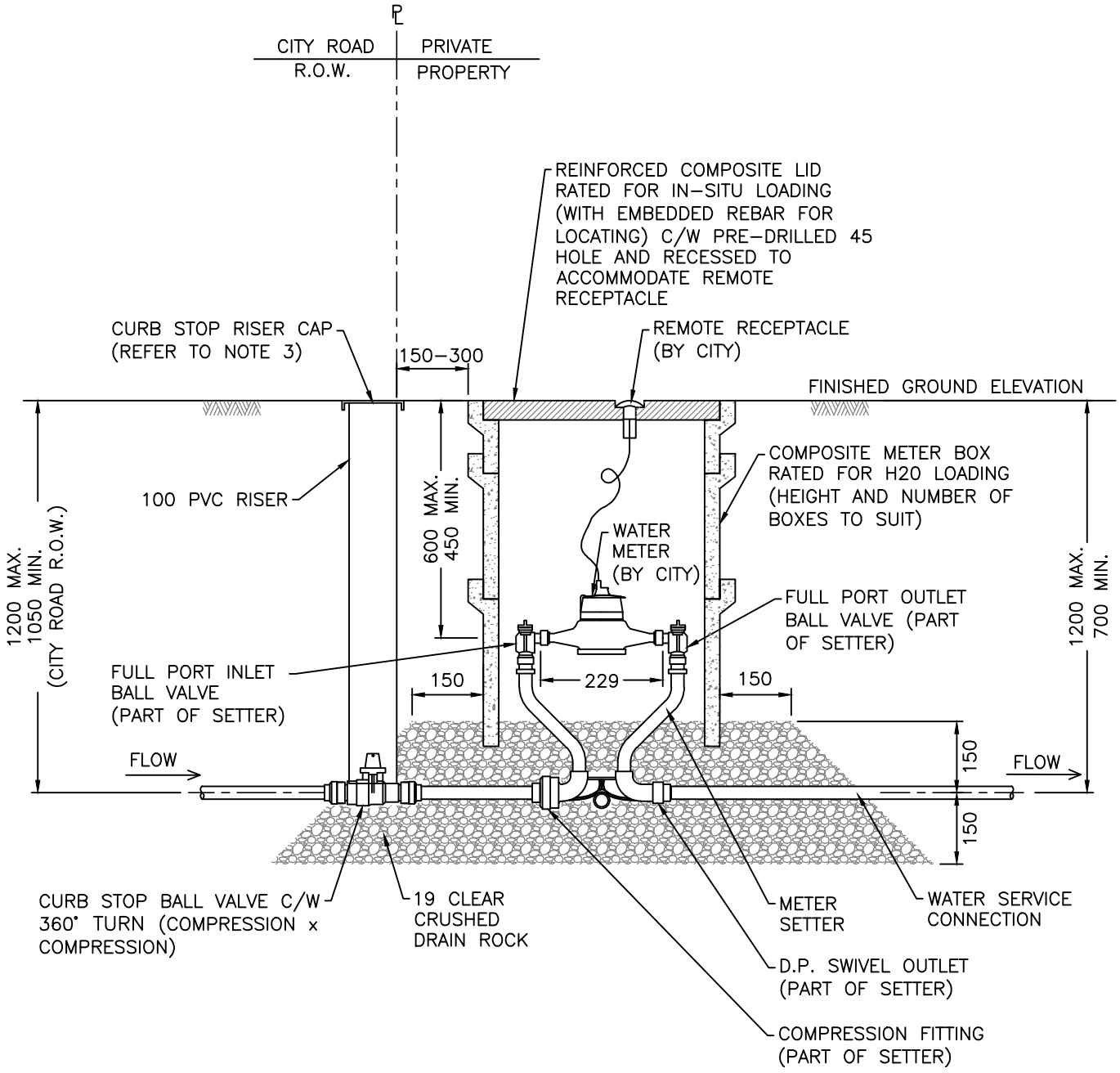
NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

GENERAL LAYOUT FOR TYPICAL WATER METER INSTALLATIONS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- WM1
CHECKED BY:	DL	DATE:	JULY 2026	

2026



NOTES:

1. THIS DRAWING SHOULD BE REVIEWED IN CONJUNCTION WITH THE CITY OF BURNABY WATER METER DESIGN GUIDELINES AND SUPPLEMENTARY SPECIFICATIONS.
2. WATER METERS AND REMOTE RECEPTACLES TO BE INSTALLED BY THE CITY OF BURNABY. PLASTIC IDLER BAR TO INITIALLY BE INSTALLED IN PLACE OF METER.
3. FOR CURB STOP RISERS, DUCTILE IRON LID TO BE PROVIDED IN LANDSCAPED AREAS. NELSON BOX TO BE INSTALLED IN DRIVEWAYS OR OTHER HARD SURFACES.
4. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
5. WHERE VEHICULAR TRAFFIC WILL NOT OCCUR A LIGHTER DUTY PLASTIC METER BOX CAN BE USED.
6. FINISHED GROUND ELEVATION INDICATES THE PREDICTED FINAL ELEVATION OF LOT.
7. CITY RETAINS THE RIGHT TO WHERE THE METER BOX AND SETTER ARE INSTALLED.
8. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

OUTSIDE INSTALLATION FOR 19mm AND 25mm METERS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- WM2
CHECKED BY:	DL	DATE:	JULY 2026	

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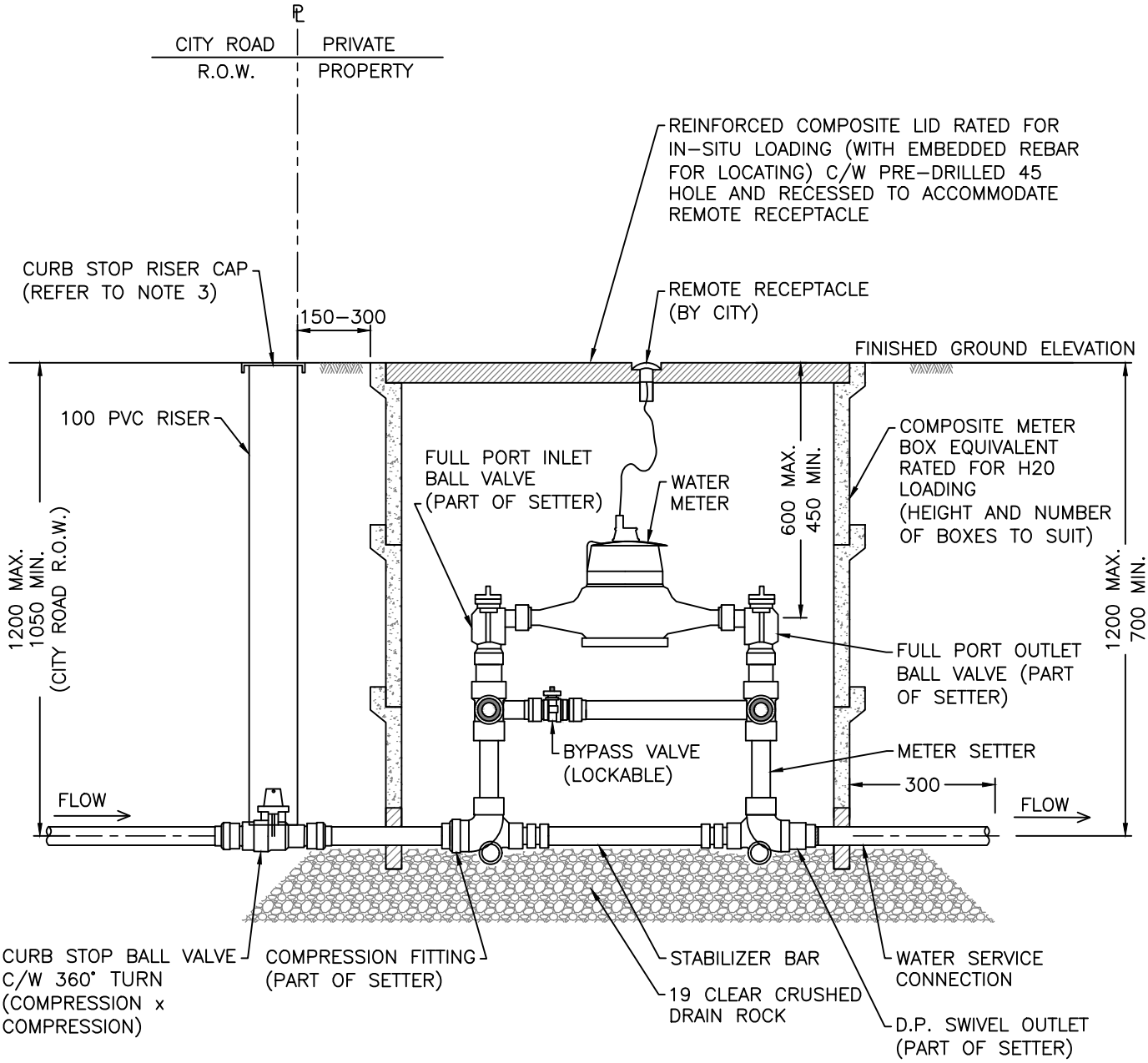

NOTES:

1. THIS DRAWING SHOULD BE REVIEWED IN CONJUNCTION WITH THE CITY OF BURNABY WATER METER DESIGN GUIDELINES AND SUPPLEMENTARY SPECIFICATIONS.
2. WATER METERS AND REMOTE RECEPTACLES TO BE INSTALLED BY THE CITY OF BURNABY. PLASTIC IDLER BAR TO INITIALLY BE INSTALLED IN PLACE OF METER.
3. FOR CURB STOP RISERS, DUCTILE IRON LID TO BE PROVIDED IN LANDSCAPED AREAS. NELSON BOX TO BE INSTALLED IN DRIVEWAYS OR OTHER HARD SURFACES.
4. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE NOTED.
5. WHERE VEHICULAR TRAFFIC WILL NOT OCCUR A LIGHTER DUTY PLASTIC METER BOX CAN BE USED.
6. FINISHED GROUND ELEVATION INDICATES PREDICTED FINAL ELEVATION OF LOT.
7. CITY RETAINS THE RIGHT TO WHERE THE METER BOX AND SETTER ARE INSTALLED.
8. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

OUTSIDE INSTALLATION FOR 38mm AND 50mm METERS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- WM3
CHECKED BY:	DL	DATE:	JULY 2026	

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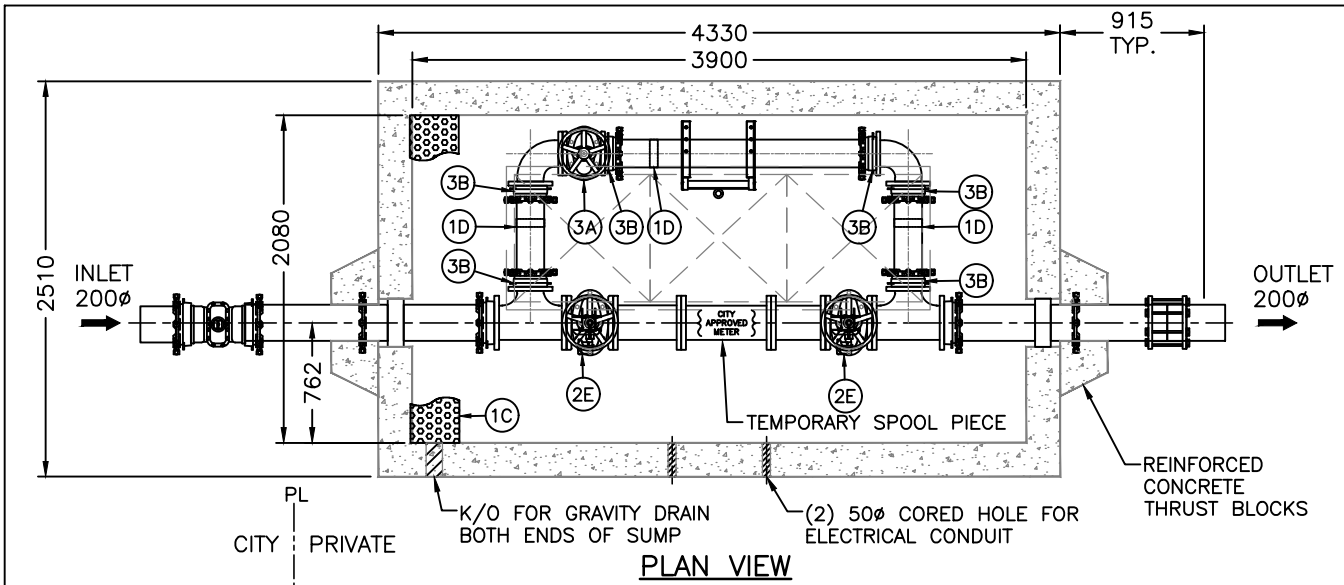
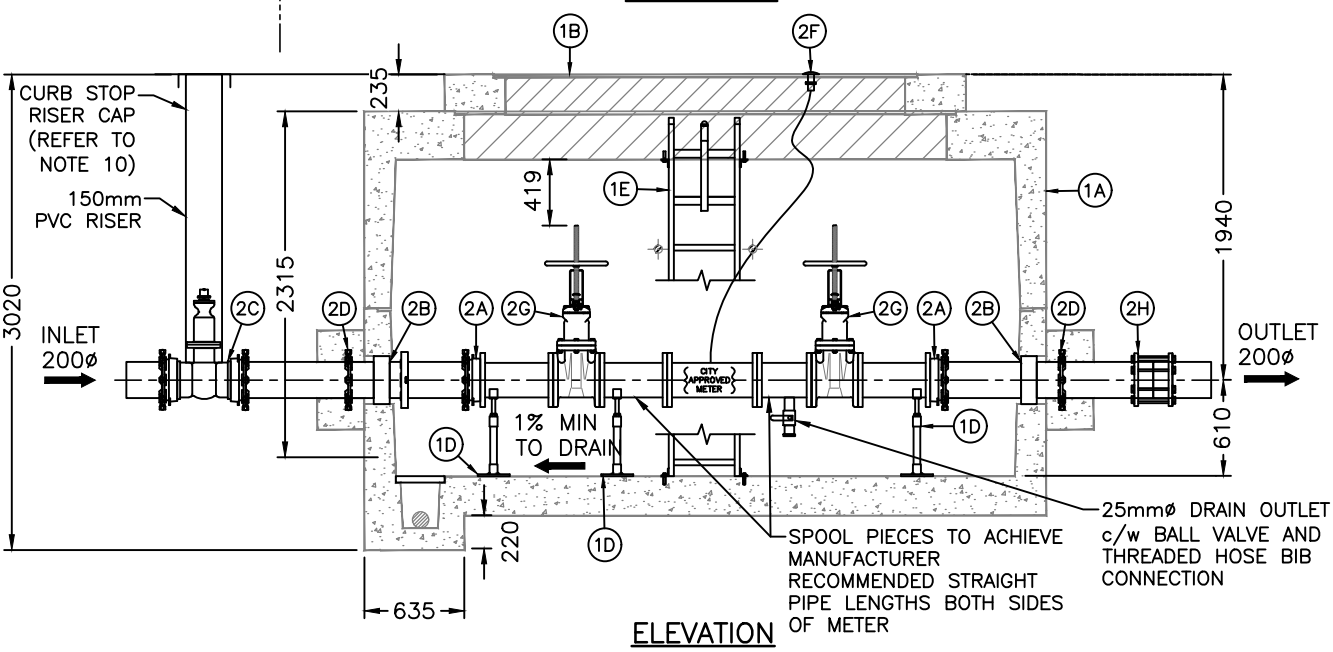


PLAN VIEW



ELEVATION

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
1A	1	PRECAST CONCRETE CHAMBER (LCG 4212, OR APPROVED EQUIVALENT) OR COMPOSITE EQUIVALENT RATED FOR IN-SITU LOADING c/w WHITE PAINTED INTERIOR AND BLACK EXTERIOR SEALANT.
1B	1	1220 x 4440 ALUMINUM DOUBLE DOOR HATCH OR COMPOSITE EQUIVALENT (CAST INTO ROOF SLAB), H20-44 CLASS B LOAD RATING, c/w RECESSED LOCK HASP AND LIFT SPRINGS.
1C	1	ALUMINUM SUMP GRATE, FULL WIDTH
1D	6	ADJUSTABLE GALVANIZED PIPE SUPPORT
1E	1	ALUMINUM LADDER, c/w RETRACTABLE SAFETY POST
2A	2	200mm RESTRAINED ADAPTER OR, VICTAULIC COUPLING
2B	2	200mm PIPE SEAL ASSEMBLY (LINK SEAL OR EQUIVALENT)
2C	1	200mm RESTRAINED GATE VALVE
2D	2	MID-SPAN RESTRAINER (OR WELDED THRUST RING)
2E	2	OS&Y SUPERVISORY SWITCH (WIRED TO REMOTE READ)
2F	1	HOUSING ASSEMBLY FOR REMOTE READ (COMPATIBLE WITH SMART METER SYS)
2G	2	200mm RESILIENT SEATED OS&Y GATE VALVE c/w HAND WHEEL
2H	1	200mm RESTRAINED TRANSITION COUPLING
3A	1	150mm RESILIENT SEATED NRS GATE VALVE c/w HAND WHEEL
3B	6	150mm RESTRAINED ADAPTERS

NOTES:

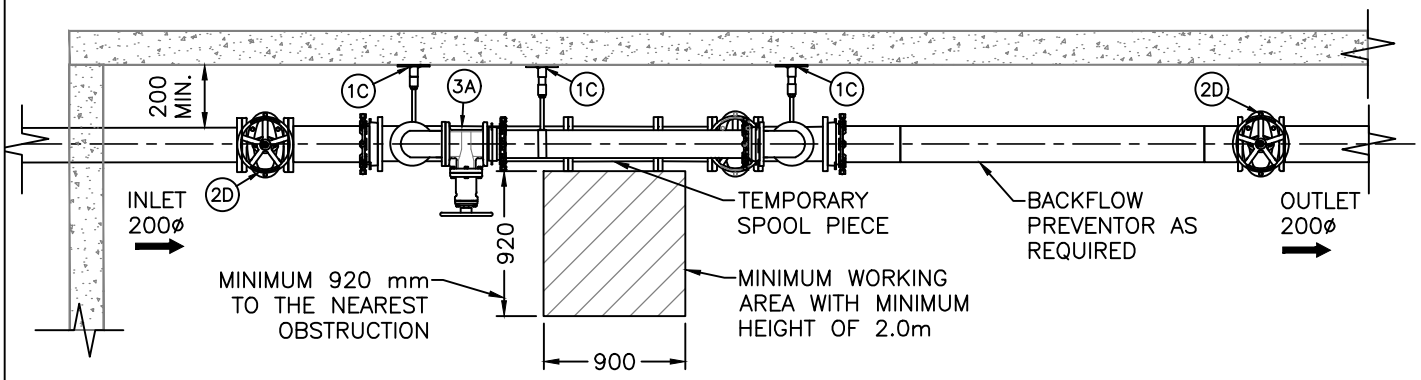
1. PIPE 100ø AND UP, TO BE DUCTILE IRON (SC 50).
2. FITTINGS TO BE NON-CORROSIVE EPOXY COATED, WHERE AVAILABLE.
3. PIPE & FITTINGS 50 AND SMALLER TO BE SCH 40 BRASS.
4. FLANGES TO BE ANSI 125/150.
5. FASTENERS TO BE 18.8 STAINLESS STEEL.
6. SUMP TO DRAIN TO TO STORM DRAIN (CONNECTION TO SANITARY NOT PERMITTED). 100mmø DRAIN PIPE. IF POSITIVE DRAINAGE CANNOT BE ACHIEVED, DESIGNER SHALL REPLACE TRENCH DRAIN WITH A 450x450x200 DEEP SUMP FOR A 1/3 HP SUP PUMP c/w INTEGRAL FLOAT SWITCH, 115VAC, 1PH, 12 AMP, 28mm OUTLET PIPEWORK WITH TWO CHECK VALVES, 100mm ø CHAMBER PENETRATION WITH LINK SEAL MODEL LS-315-3-4 OR EQUIVALENT.
7. CONCRETE THRUST BLOCKS TO BE REINFORCED.
8. METER BY-PASS - ONE DIAMETER SMALLER; MIN. 100mm.
9. ALTERNATIVE CONSTRUCTION, INCLUDING SCH 40 SS, WELDED PIPE AND FITTINGS, UPON APPROVAL.
10. FOR CURB STOP RISERS, DUCTILE IRON LID TO BE PROVIDED IN LANDSCAPED AREAS. NELSON BOX INSTALLED IN DRIVEWAYS OR OTHER HARD SURFACES.
11. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

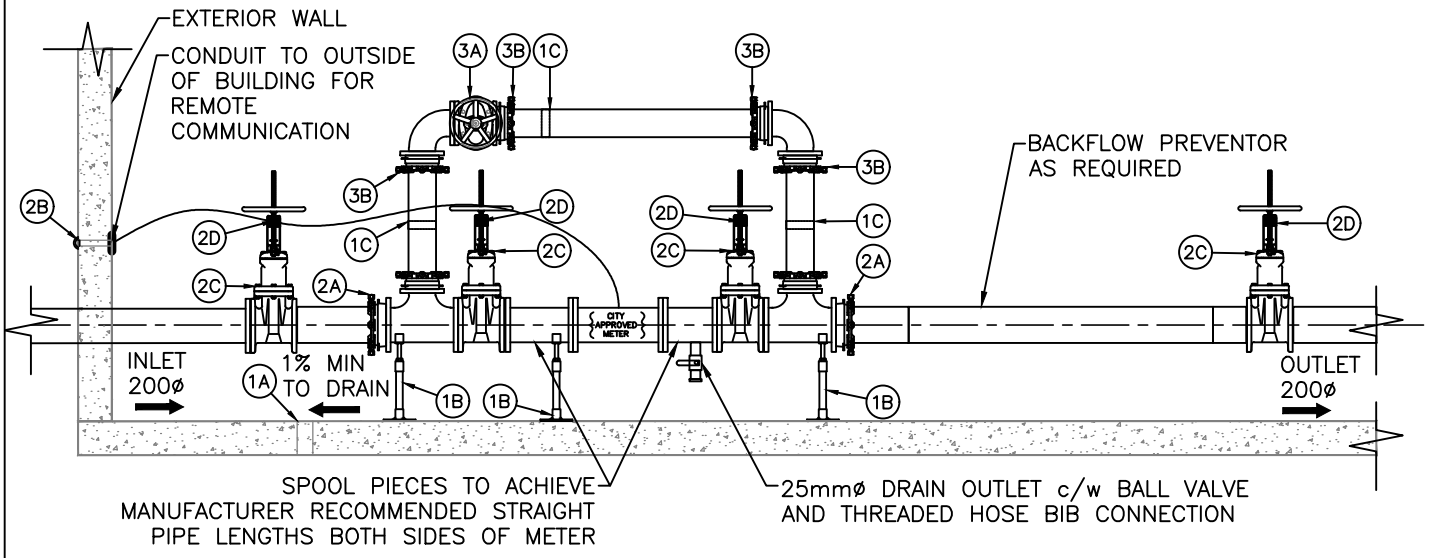
COMBINED FIRE & DOMESTIC SERVICE METER INSTALLATION (200mm SHOWN FOR CLARITY)

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- WM4A
CHECKED BY:	DL	DATE:	JULY 2026	

2026



PLAN VIEW



ELEVATION

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
1A	1	ALUMINUM FLOOR DRAIN WITH PERFORATED LID c/w 100mm DRAIN PIPE
1B	3	ADJUSTABLE GALVANIZED PIPE SUPPORT
1C	3	ADJUSTABLE GALVANIZED PIPE WALL SUPPORTS
2A	2	200mm RESTRAINED ADAPTER OR, VICTAULIC COUPLING
2B	1	HOUSING ASSEMBLY FOR REMOTE READ (COMPATIBLE WITH SMART METER SYS)
2C	4	200mm RESILIENT SEATED OS&Y GATE VALVE c/w HAND WHEEL
2D	4	OS&Y SUPERVISORY SWITCH (WIRED TO REMOTE READ)
3A	1	150mm ROTATED RESILIENT SEATED NRS GATE VALVE c/w HAND WHEEL
3B	6	150mm RESTRAINED ADAPTERS

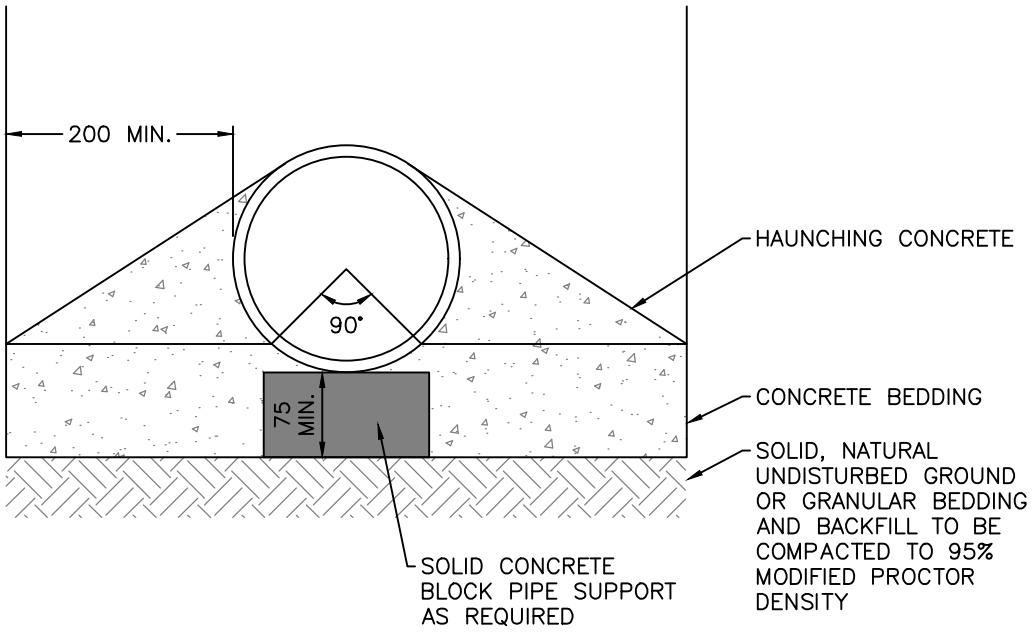
NOTES:
1. VERTICAL BYPASS CONFIGURATION SHOWN. HORIZONTAL BYPASS CONFIGURATION ALSO ACCEPTABLE.
2. PIPE 100ø AND UP, TO BE DUCTILE IRON (SC 50).
3. FITTINGS TO BE NON-CORROSIVE EPOXY COATED, WHERE AVAILABLE.
4. PIPE & FITTINGS 50 AND SMALLER TO BE SCH 40 BRASS.
5. FLANGES TO BE ANSI 125/150.
6. FASTENERS TO BE 18.8 STAINLESS STEEL.
7. METER BY-PASS – ONE DIAMETER SMALLER; MIN. 100mm.
8. ALTERNATIVE CONSTRUCTION, INCLUDING SCH 40 SS, WELDED PIPE AND FITTINGS, UPON APPROVAL.
9. WHERE BACKFLOW PREVENTOR IS INSTALLED, OUTLET SIDE GATE VALVE IS NOT REQUIRED.
10. ALL PIPEWORK TO BE ADEQUATELY RESTRAINED FOR SEISMIC LOADING.
11. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

COMBINED FIRE & DOMESTIC SERVICE METER INSTALLATION IN MECHANICAL ROOM (200mm SHOWN FOR CLARITY)

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- WM4B
CHECKED BY:	DL	DATE:	JULY 2026	

2026



NOTES:

1. PIPE CRADLING USED FOR SOFT GROUND AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE CONSTRUCTION ENGINEER.
2. CONCRETE 20MPa.
3. ALL PIPE TO BE FULLY SUPPORTED ALONG THE INVERT; NO VOIDS PERMITTED UNDER PIPE.
4. FLEXIBLE RUBBER CONNECTORS TO BE USED AT ALL MANHOLE/STRUCTURE PENETRATIONS.
5. TRENCH TO BE DEWATERED AND SUBGRADE STABILIZED AS REQUIRED PRIOR TO PLACEMENT.
6. CONCRETE CRADLE TO BE PROPERLY CURED BEFORE BACKFILLING OR LOADING.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CRADLING IN PIPE ZONE

DRAWN BY:	SM	SCALE:	N.T.S.
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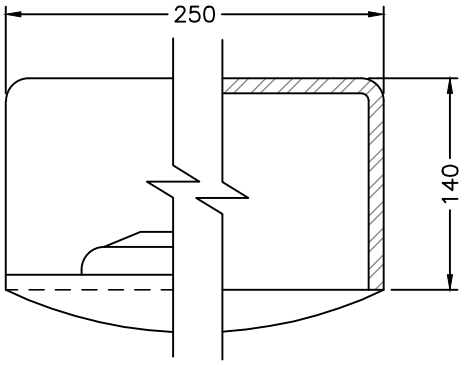
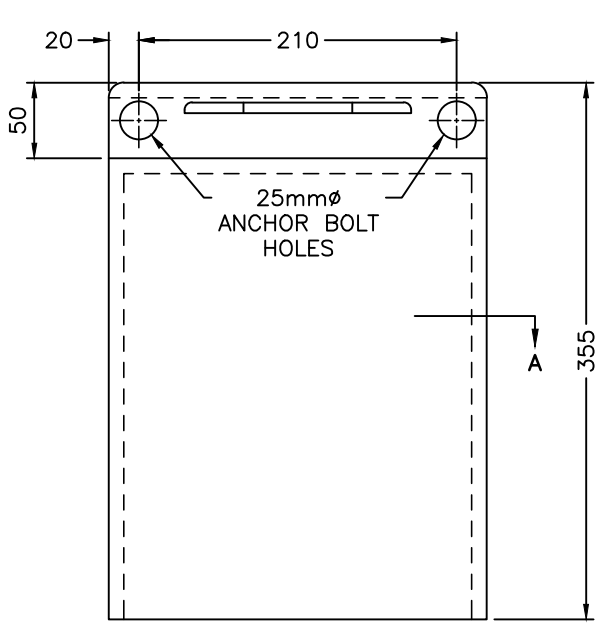
BBY- S101

2026

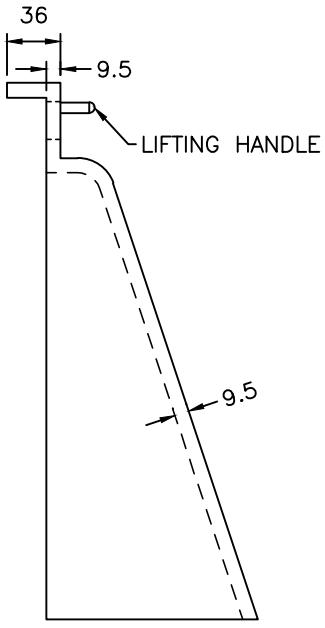


HALF PLAN

HALF SECTION A



FRONT SECTION



SIDE SECTION

NOTES:

1. FOR 150mmø LEADS.
2. ALL MATERIAL TO BE CAST IRON.
3. CASTINGS SHALL MEET ASTM A48 CLASS 25 GREY IRON SPECIFICATIONS.
4. CASTING FINISH SHALL BE BITUMINUOUS DIP COATED.
5. CASTING SHALL MEET MINIMUM WEIGHT REQUIREMENT:
   TRAPPING HOOD 9.1kg ±5%.
6. SECURE TRAPPING HOOD WITH 16mmø GALVANIZED PINS. PINS TO BE SLOPED UP AT 20° TOWARDS THE GRATE AND BE FASTENED SECURELY TO THE CATCH BASIN WALL.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

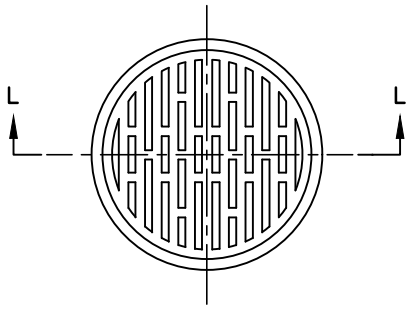
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

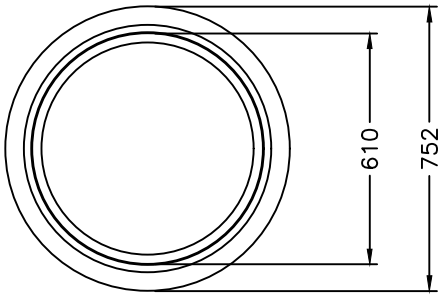
TRAPPING HOOD DETAILS

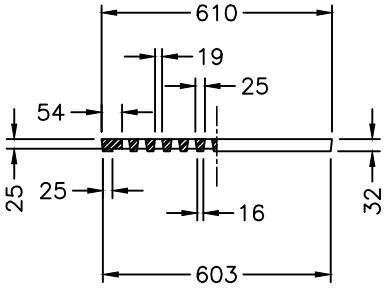
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	AM	DATE:	JULY 2026

BBY- S102

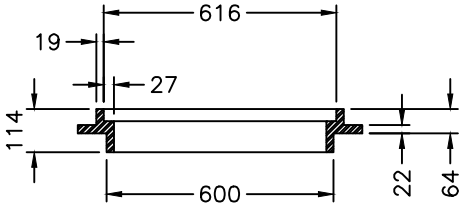
2026





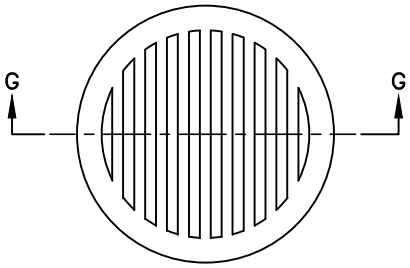


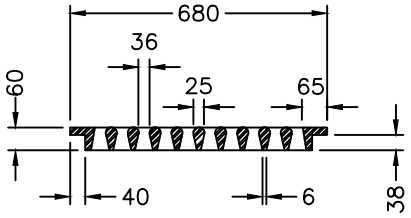
SECTION L–L



FRAME

MODIFIED GRATE





SECTION G–G

TYPE I GRATE

NOTES:
1. CASTINGS SHALL MEET ASTM A48 CLASS 25 GREY IRON SPECIFICATIONS.
2. ALL MATERIAL TO BE CAST IRON.
3. CASTING FINISH SHALL BE BITUMINOUS DIP COATED.
4. CASTINGS SHALL MEET MINIMUM WEIGHT REQUIREMENTS:
   - MODIFIED GRATE: 43kg ±5%
   - FRAME: 58kg ±5%
   - TYPE I GRATE: 51kg ±5%
5. MODIFIED GRATE AND FRAME SHALL BE CERTIFIED H20 LOADING.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CATCH BASIN FRAME AND GRATE (TYPE I & MODIFIED GRATE)

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S103
CHECKED BY:	AM	DATE:	JULY 2026	

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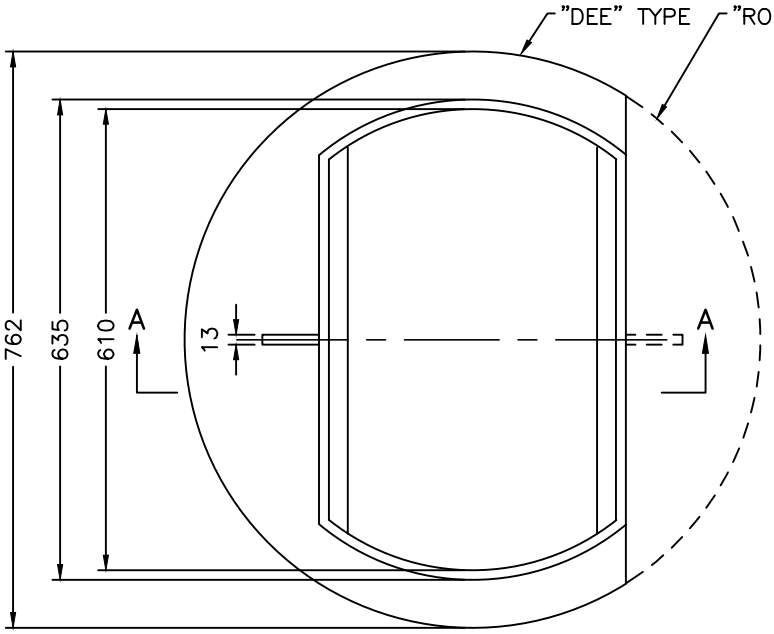
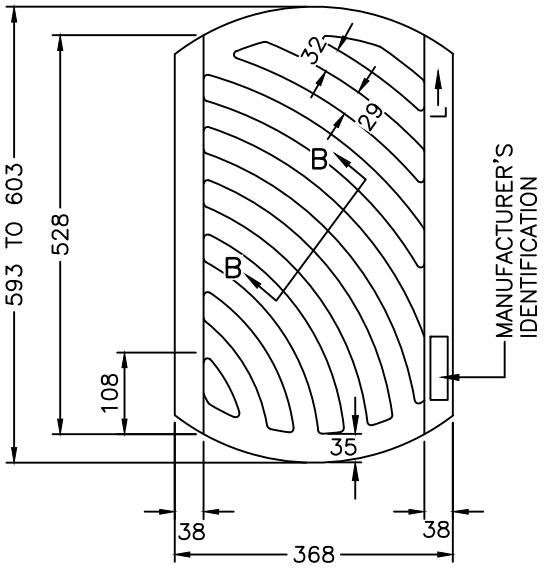
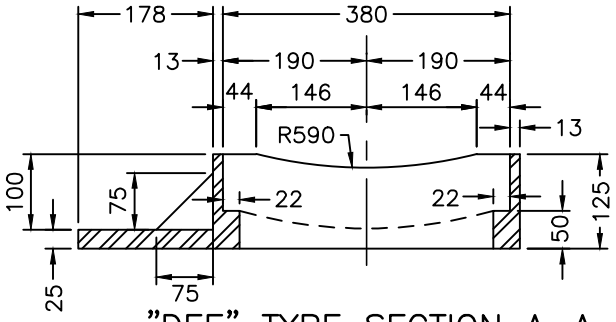


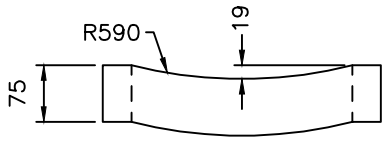
PLAN OF FRAME



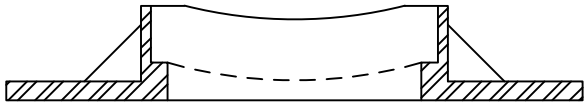
PLAN OF GRATE



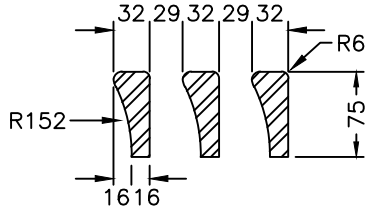
"DEE" TYPE SECTION A–A



END ELEVATION OF GRATE



"ROUND" TYPE SECTION A–A



SECTION B–B

NOTES:
1. FRAME AND GRATE SHALL BE CERTIFIED H20 LOADING AND 6.64kN IMPACT LOADING.
2. ALL MATERIAL TO BE CAST IRON.
3. CASTINGS SHALL MEET ASTM A48 CLASS 25 GREY IRON SPECIFICATIONS.
4. CASTING FINISH SHALL BE BITUMINOUS DIP COATED.
5. CASTINGS SHALL MEET MINIMUM WEIGHT REQUIREMENTS:
   - DEE FRAME 59kg ±5%
   - ROUND FRAME 72kg ±5%
   - GRATE 61kg ±5%
6. GRATE SHALL BE LEFT OR RIGHT HAND AND STAMPED ACCORDINGLY.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

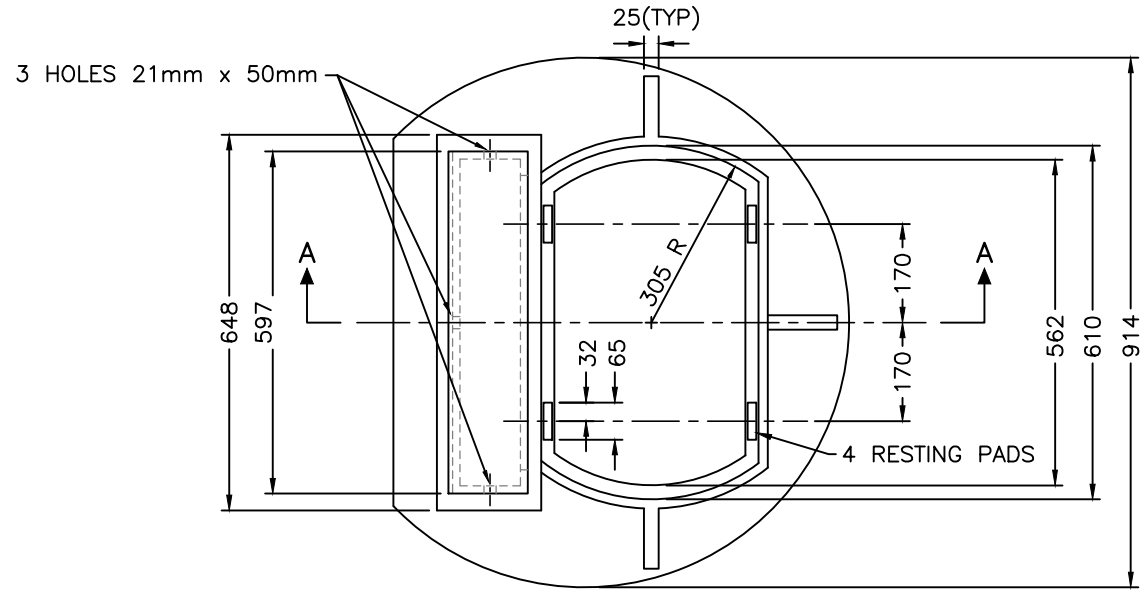
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

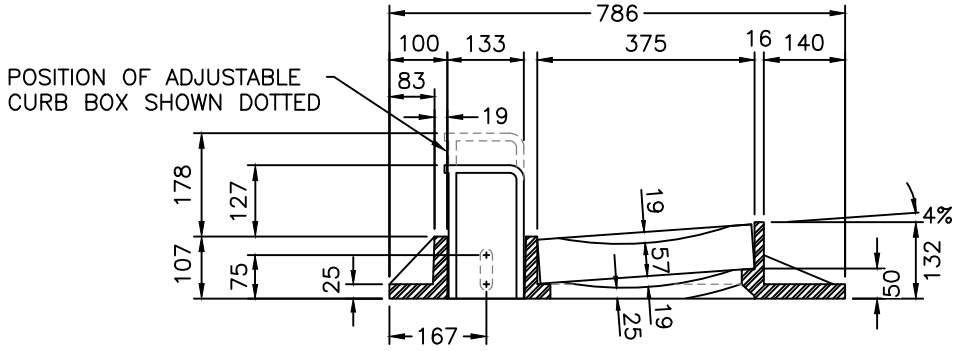
CATCH BASIN FRAME AND GRATE (TYPE V)

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	AM	DATE:	JULY 2026

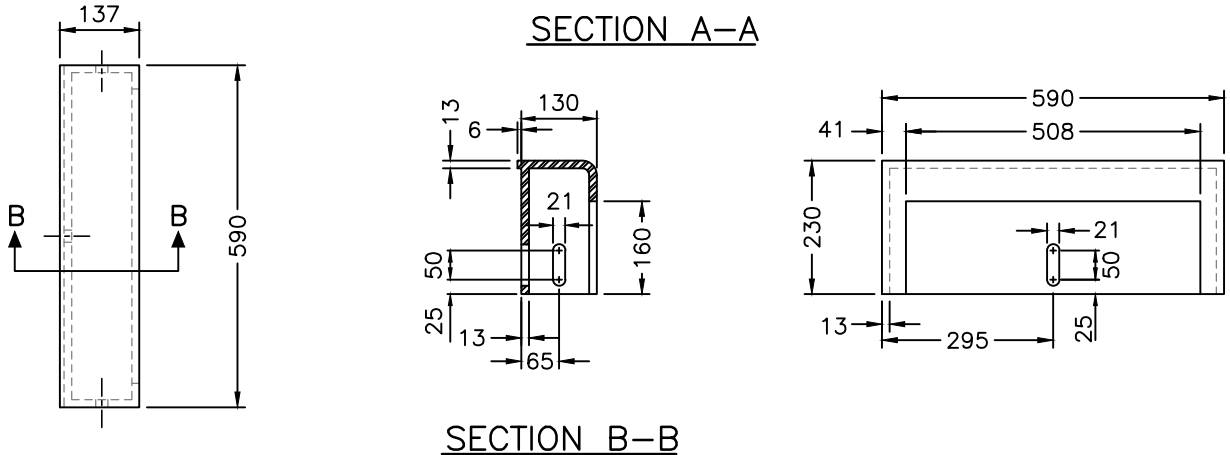
BBY- S104

2026





SECTION A–A



SECTION B–B

ADJUSTABLE CURB BOX

NOTES:
1. FRAME AND GRATE SHALL BE CERTIFIED H20 LOADING AND 6.64kN IMPACT LOADING.
2. ALL MATERIAL TO BE CAST IRON.
3. CASTINGS SHALL MEET ASTM A48 CLASS 25 GREY IRON SPECIFICATIONS.
4. CASTING FINISH SHALL BE BITUMINOUS DIP COATED.
5. CASTINGS AND APPURTENANCES SHALL MEET MINIMUM WEIGHT REQUIREMENTS:
   – FRAME 127kg ±5%
6. SEE S104 FOR GRATE DETAILS.
7. REQUIRES 3 GALVANIZED BOLTS 19mmø65mm LG. C/W NUT AND 2 LOCK WASHERS.
8. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

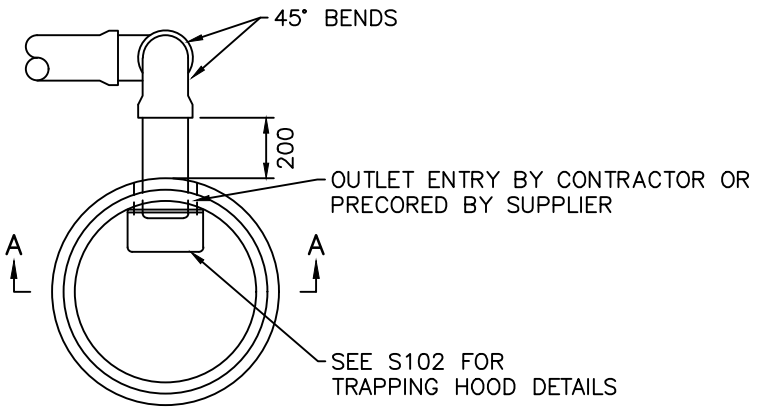
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CATCH BASIN FRAME (ADJUSTABLE CURB INLET, TYPE VA)

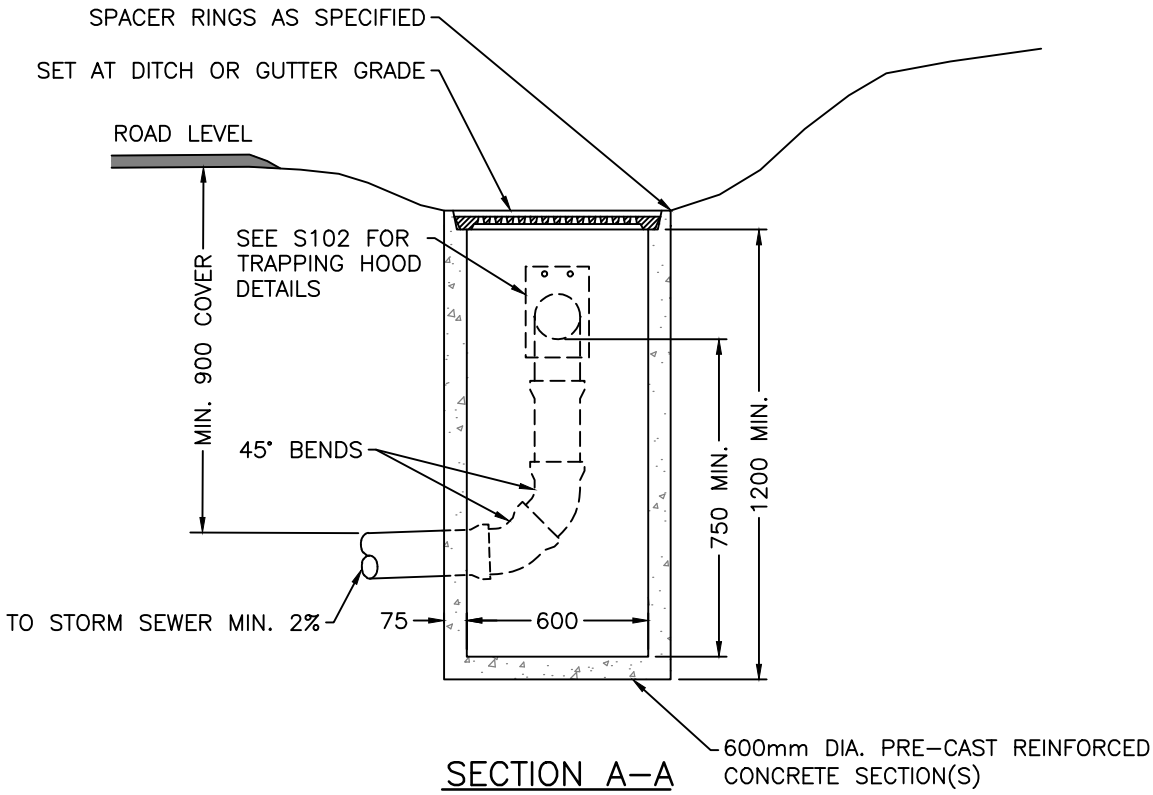
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	AM	DATE:	JULY 2026

BBY- S105

2026



PLAN



SECTION A–A

NOTES:
1. FOR 150mmø C.B. LEADS USE 45° BENDS.
2. USE NON–SHRINK GROUT TO SEAL, LIFTING HOLES, TEMPORARY DRAIN HOLE(S), SECTIONS, AND SPACER RINGS, INSIDE AND OUT.
3. SAND THE OUTSIDE OF FLEXIBLE PIPE CONNECTIONS TO PROVIDE ROUGHENED SURFACE FOR GROUT TO ADHERE TO.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL CATCH BASIN INSTALLATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S107
CHECKED BY:	AM	DATE:	JULY 2026	

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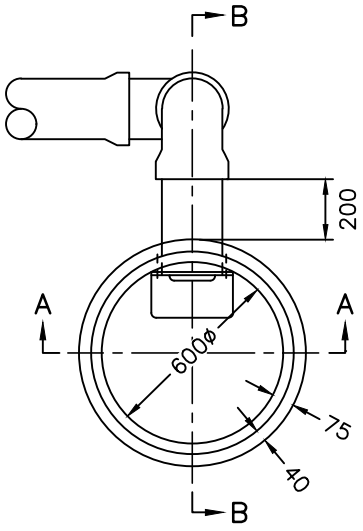
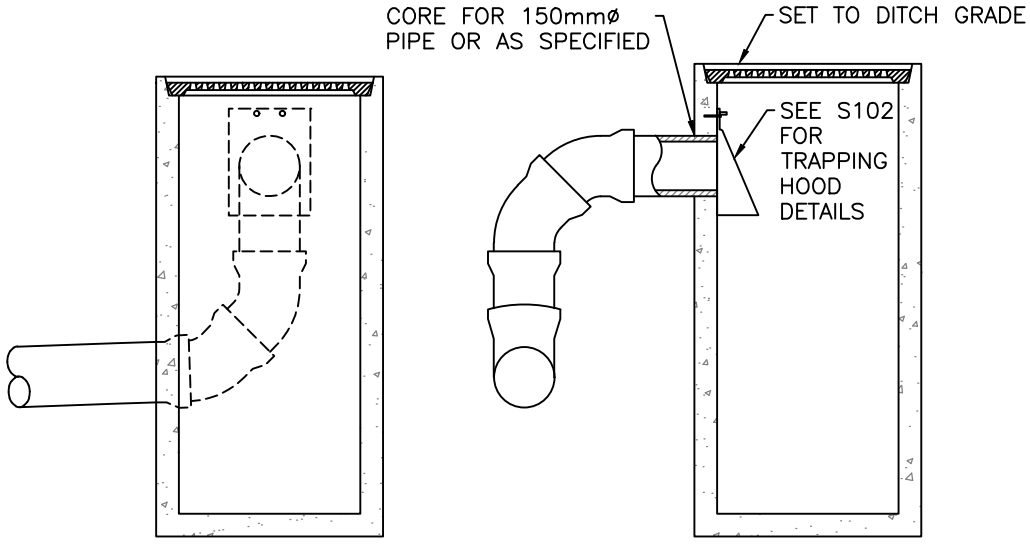


PLAN



SECTION A–A

SECTION B–B

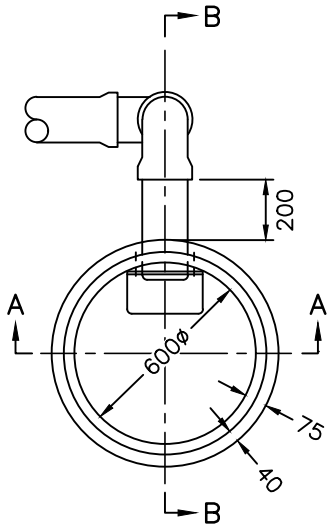
NOTES:
1. USE TYPE I GRATE S103 FOR ROAD SIDE DITCH INSTALLATIONS.
2. USE MODIFIED GRATE S103 FOR BOULEVARD SWALE INSTALLATIONS, OR PAVED AREAS.
3. SEE S107 FOR TYPICAL INSTALLATION DETAILS.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

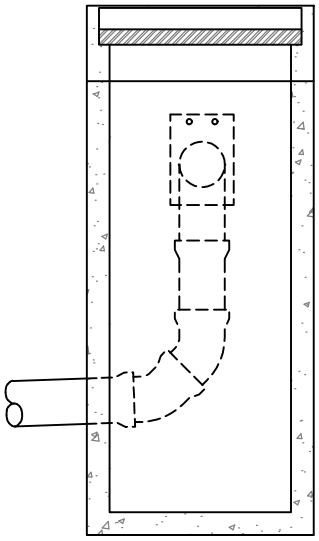
CATCH BASIN TYPE I DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S108
CHECKED BY:	AM	DATE:	JULY 2026	

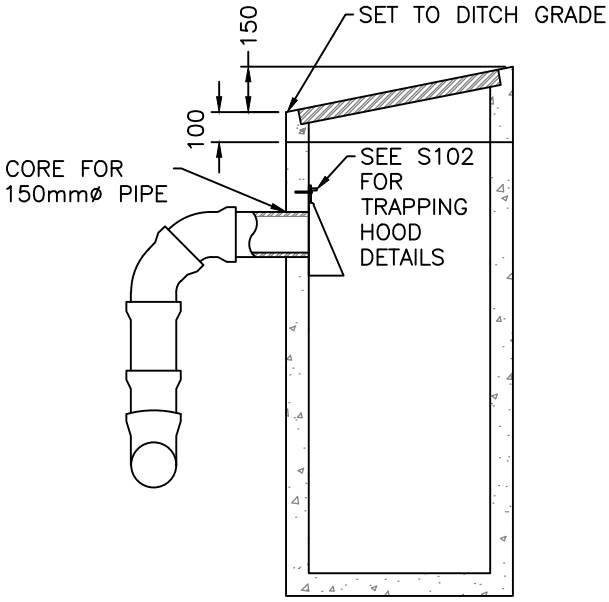
2026



PLAN



SECTION A–A



SECTION B–B

NOTES:
1. USE TYPE 1 GRATE S103
2. SEE S107 FOR TYPICAL INSTALLATION DETAILS.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

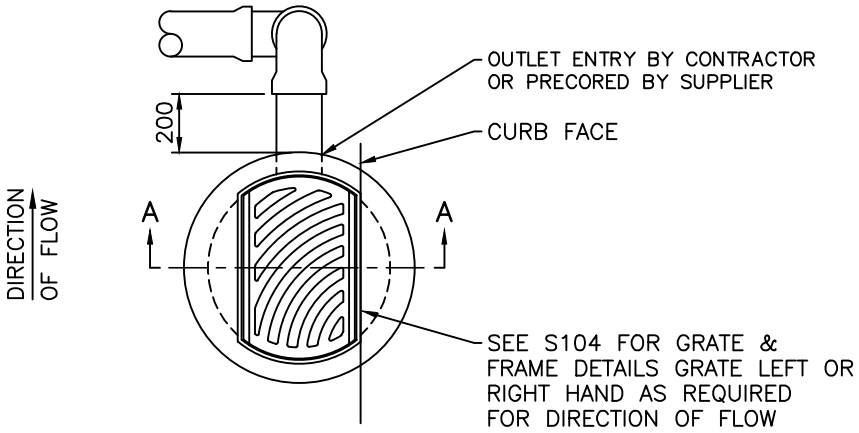
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CATCH BASIN TYPE II DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	AM	DATE:	JULY 2026

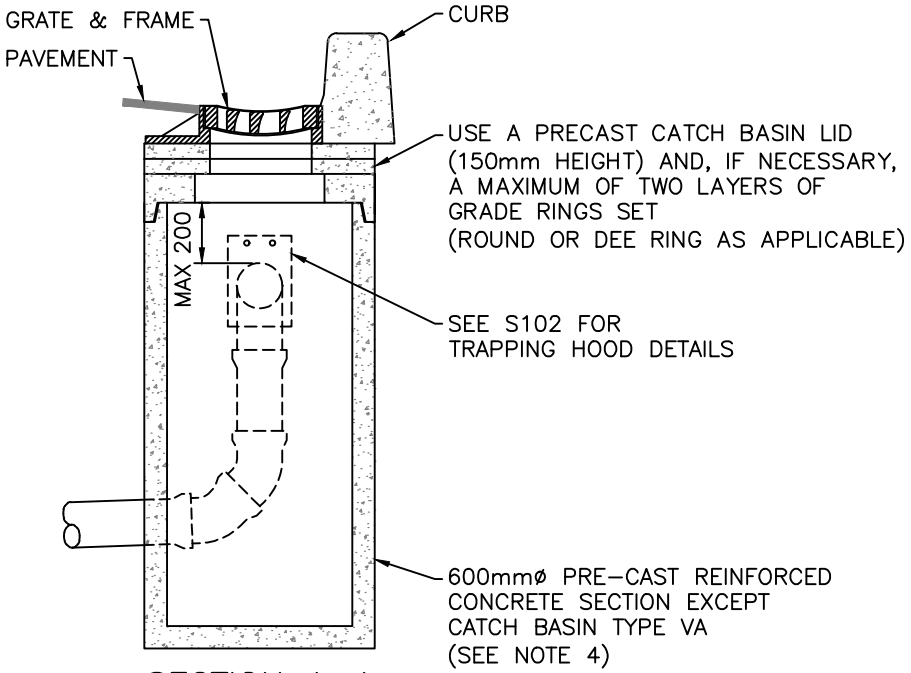
BBY- S109

2026



PLAN

(CURB & PAVEMENT NOT SHOWN)



SECTION A–A

NOTES:

1. USE TYPE V ("DEE") FRAME AND GRATE S104 WHEN CATCH BASIN IS INSTALLED CONCURRENTLY WITH CURB AND GUTTER INSTALLATION.
2. USE TYPE V ('ROUND') FRAME AND GRATE S104 WHEN THE CATCH BASIN IS INSTALLED SIGNIFICANTLY PRIOR TO CURB AND GUTTER INSTALLATION
3. USE CATCH BASIN TYPE VA S105 FRAME AT ALL SAG POINTS.
4. ONCE CATCH BASIN TYPE VA S105 FRAME IS USED, USE 900mm DIA. LID AND RISER RINGS, AND 750mm DIA BARREL.
5. EXPANSION JOINT REQUIRED IN CURB & GUTTER AT MIDDLE OF CATCH BASIN FRAME FOR TYPE V INSTALLATIONS OR 1m EACH SIDE OF FRAME FOR TYPE VA INSTALLATIONS.
6. SEE S107 FOR TYPICAL INSTALLATION DETAILS.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CATCH BASIN TYPE V AND VA DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S110
CHECKED BY:	AM	DATE:	JULY 2026	

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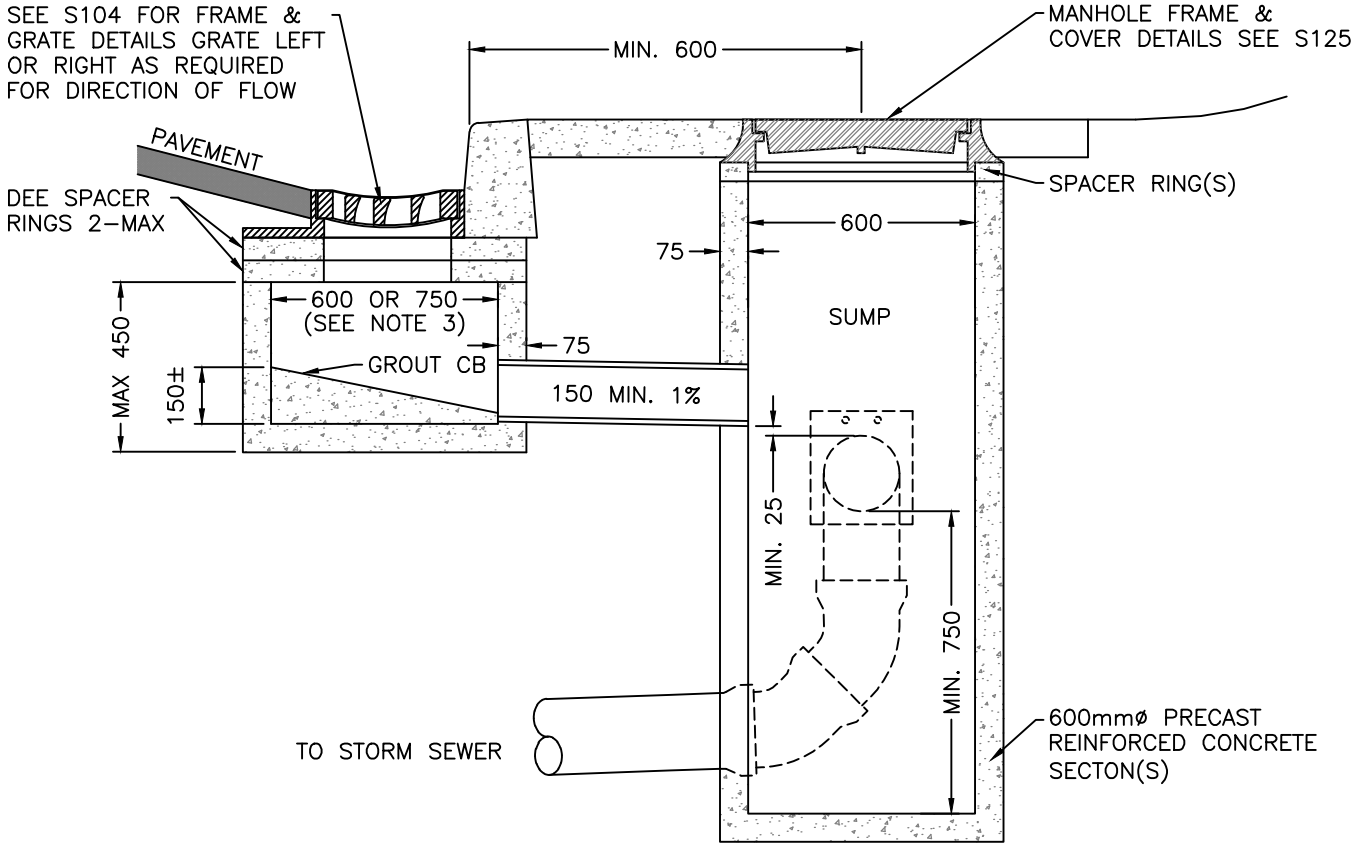


SECTION

NOTES:

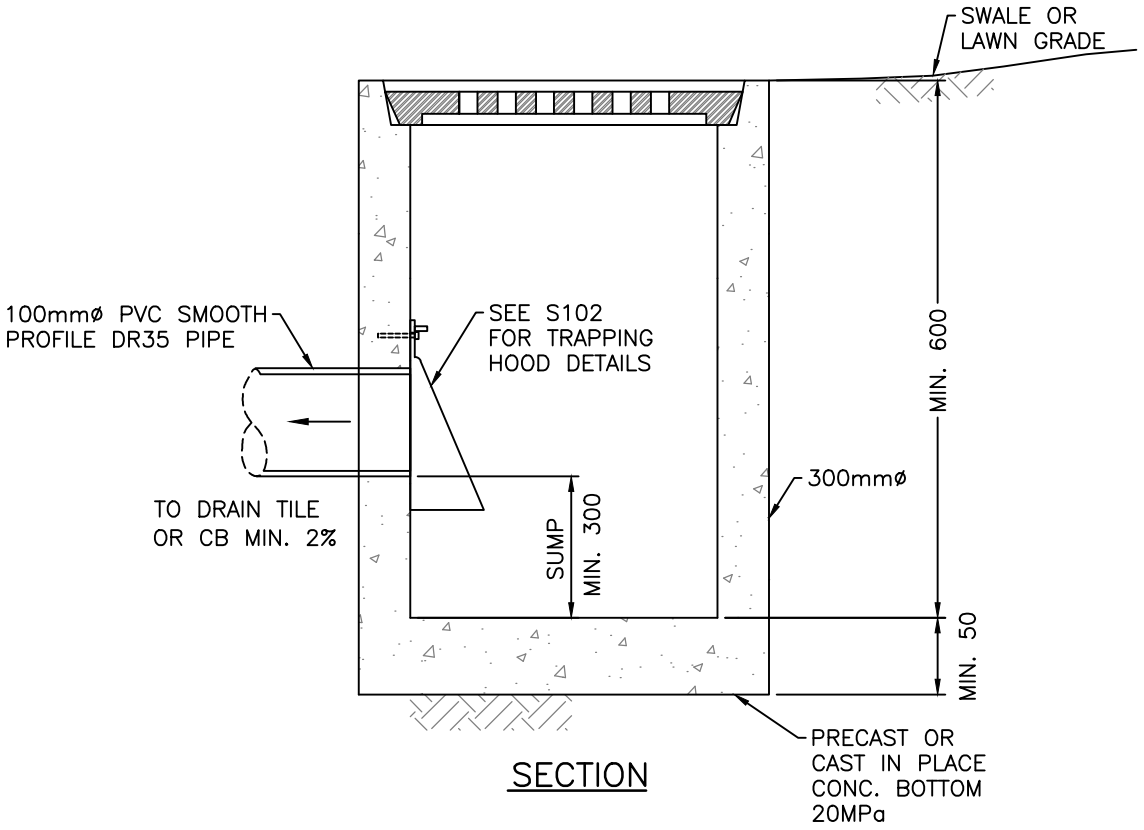
1. WHEN SUMP IS INSTALLED ROADSIDE TO CATCH BASIN, CONNECTION PIPE FROM CATCH BASIN TO SUMP SHALL BE DUCTILE IRON OR CONCRETE ENCASED.
2. USE 600mm BARREL FOR OFFSET SUMP CATCH BASIN TYPE VII.
3. FOR OFFSET SUMP CATCH BASIN TYPE VAII, USE ADJUSTABLE CURB INLET TYPE VA FRAME S105, 750 mm BARREL, AND 900mm DIA. ROUND SPACER RING.
4. AT ALL SAG POINTS, USE OFFSET SUMP CATCH BASIN TYPE VIIA.
5. PROVIDE AN EXPANSION JOINT IN THE CURB AND GUTTER AT THE CENTER OF THE CATCH BASIN FRAME FOR TYPE VII INSTALLATIONS, OR 1m ON EACH SIDE OF THE FRAME FOR TYPE VIIA INSTALLATIONS.
6. SEE S107 FOR TYPICAL SUMP INSTALLATION DETAIL.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

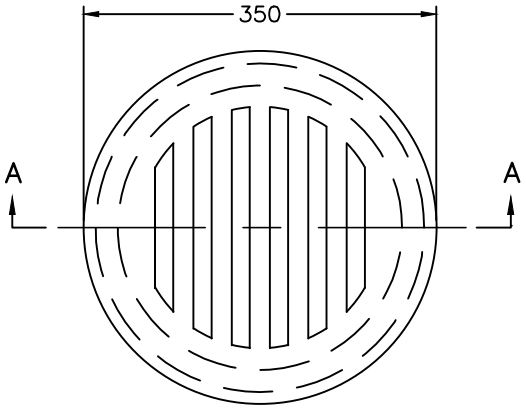
OFFSET SUMP CATCH BASIN TYPE VII AND VIIIA

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S111
CHECKED BY:	AM	DATE:	JULY 2026	

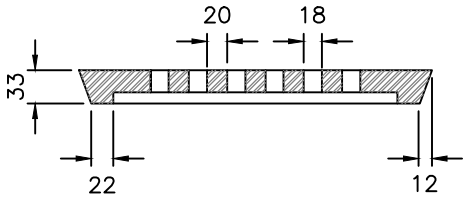
2026



SECTION



PLAN



SECTION A–A

NOTE:

1. FOR USE IN BOULEVARD AREAS BETWEEN SIDEWALK AND PROPERTY LINE.
2. FOR DRAINAGE AREA LESS THAN 100m².
3. GROUT AS NECESSARY TO SEAL PIPE OPENING.
4. CASTING SHALL MEET ASTM A48 CLASS 25 GREY IRON SPECIFICATIONS.
5. CASTING FINISH SHALL BE BITUMINOUS DIP COATED.
6. CASTING SHALL MEET MINIMUM WEIGHT REQUIREMENT:
   GRATE 13kg ±5%
7. GRATE SHALL BE CERTIFIED H20 LOADING.
8. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
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SUPPLEMENTAL STANDARD DETAIL DRAWINGS

LAWN BASIN

DRAWN BY:	SM	SCALE:	N.T.S.
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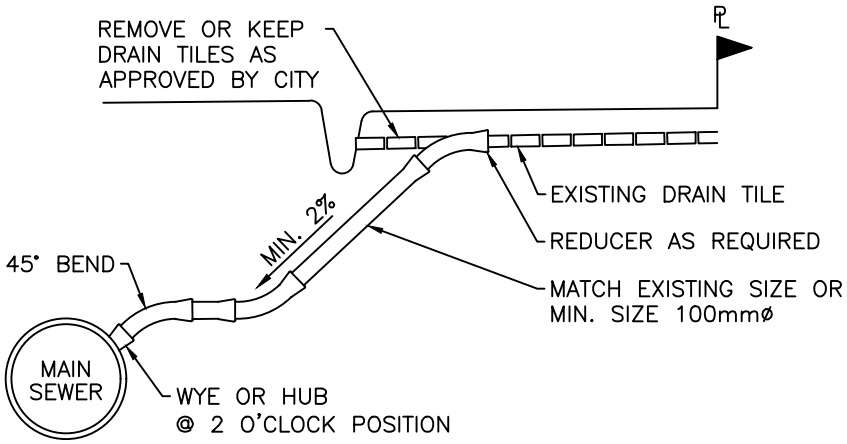
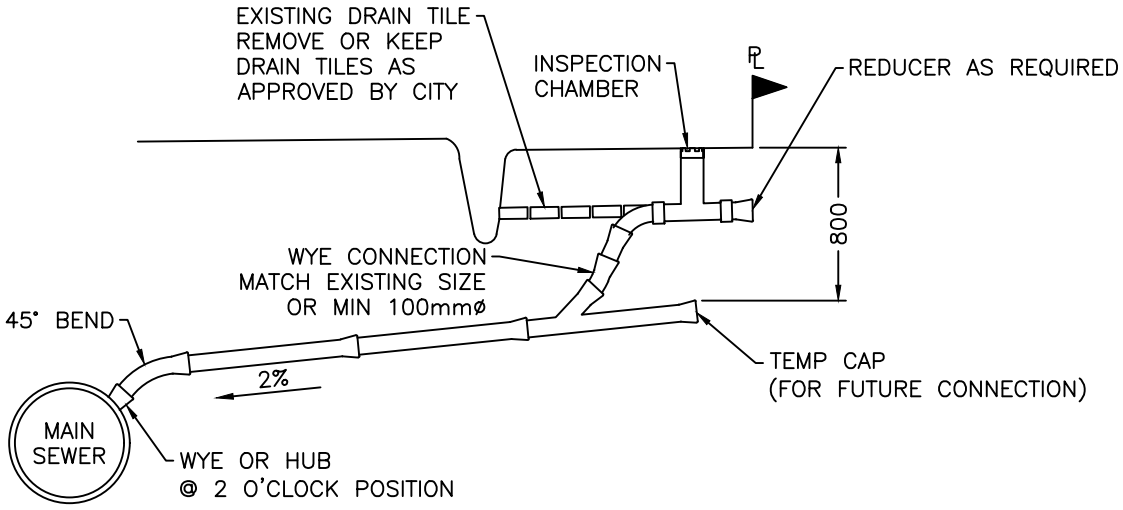
BBY- S112

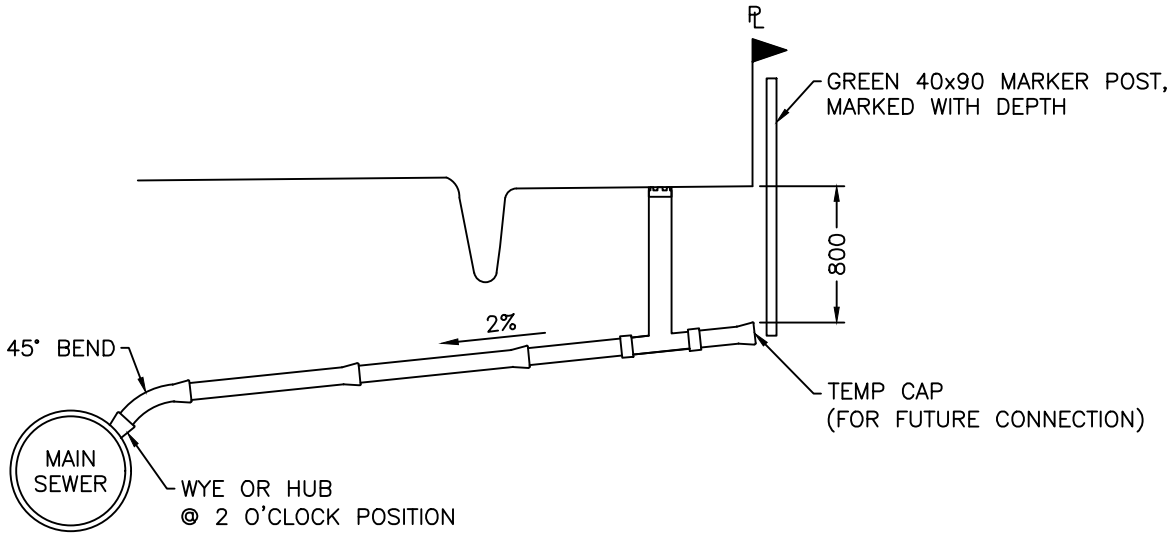
2026



PROFILE – TYPE A. TEMPORARY CONNECTION TO EXISTING DRAIN TILE



PROFILE – TYPE B. PERMANENT CONNECTION TO EXISTING DRAIN TILE



PROFILE – TYPE C. PERMANENT CONNECTION – NO EXISTING DRAIN TILE

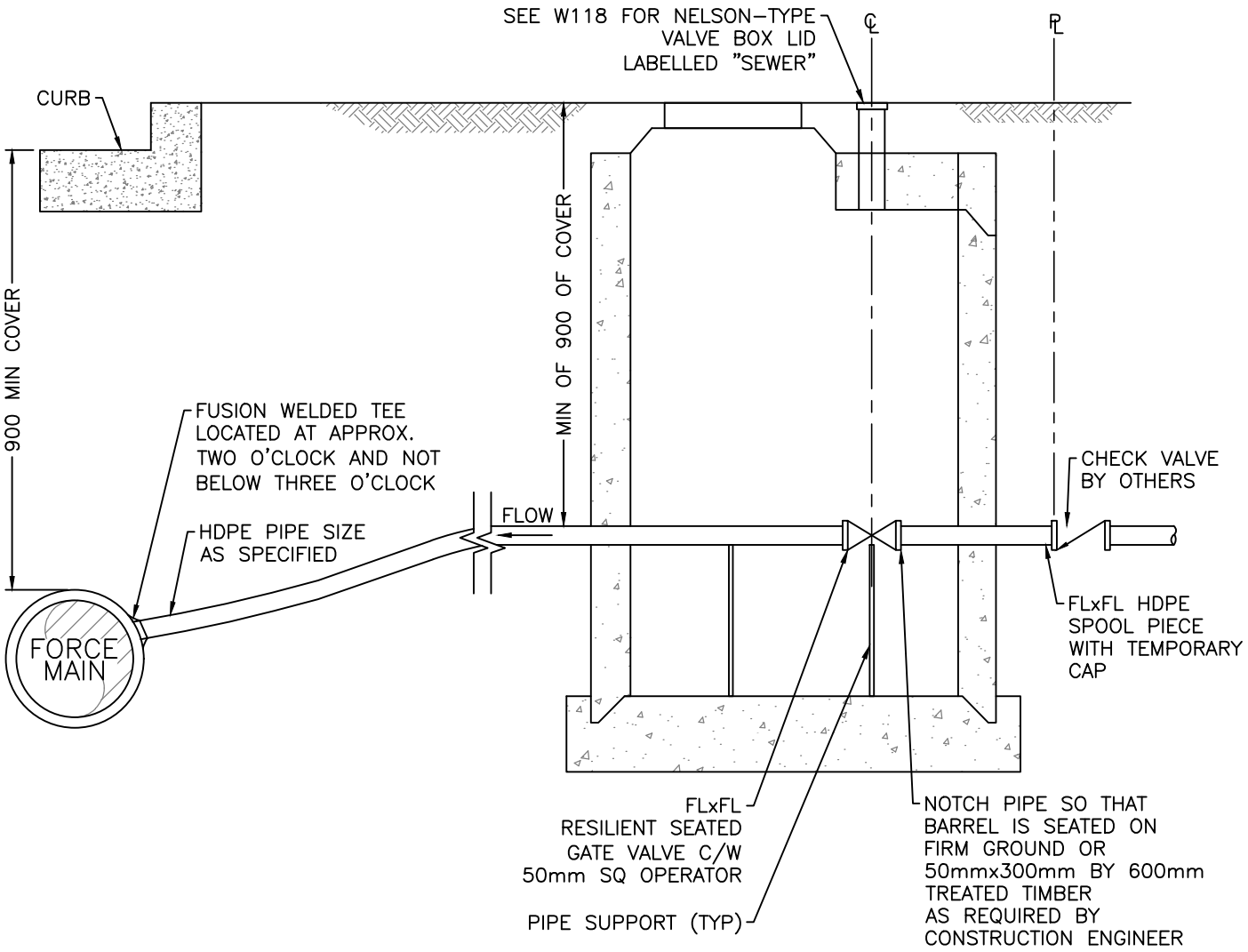
NOTES:
1. CONNECTIONS MINIMUM 150mmø OR AS SHOWN ON THE DRAWINGS.
2. RISER SERVICE ONLY PERMITTED FOR TYPE B (PERMANENT CONNECTION TO EXISTING DRAIN TILE).
3. MARKER POST TO EXTEND MINIMUM 1.0m ABOVE EXIST GROUND SURFACE.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

3 METHODS OF CONNECTING PROPERTIES TO NEW STORM SEWER

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S114
CHECKED BY:	AM	DATE:	JULY 2026	

2026



NOTES:
1. HDPE PIPE SHALL HAVE SAME OR GREATER PRESSURE RATING AS THE FORCE MAIN.
2. HDPE PIPE TO BE SNAKED TO ALLOW FOR EXPANSION AND CONTRACTION.
3. FOR DITCH CROSSINGS MINIMUM DEPTH OF COVER OVER THE CONNECTION SHALL BE 1.5m MEASURED FROM THE CROWN OF THE ROAD OR 0.3m BELOW DITCH INVERT WHICHEVER IS GREATER.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

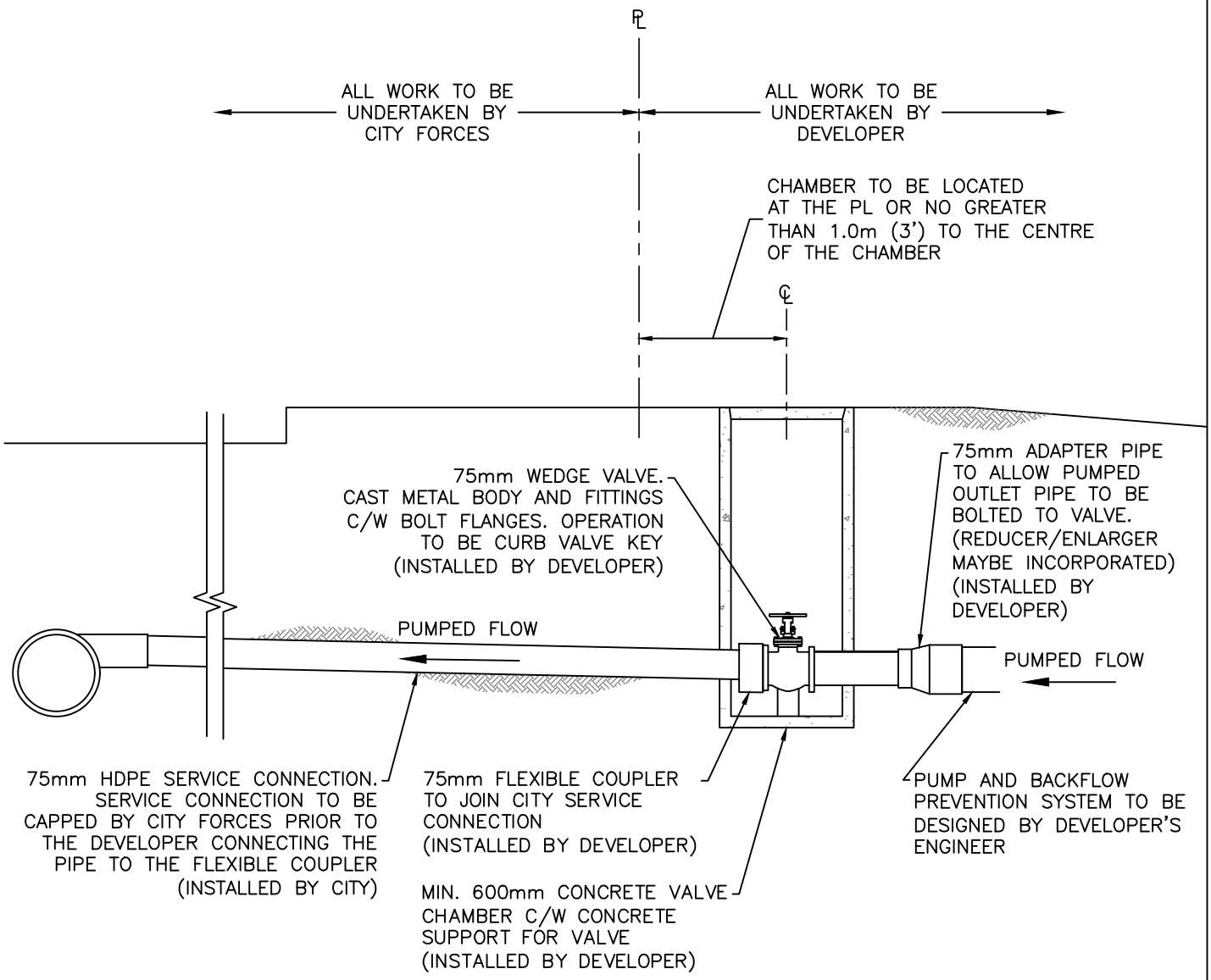
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

PUMPED SANITARY (FORCE MAIN) CONNECTION

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	AM	DATE:	JULY 2026

BBY- S118

2026



NOTES:

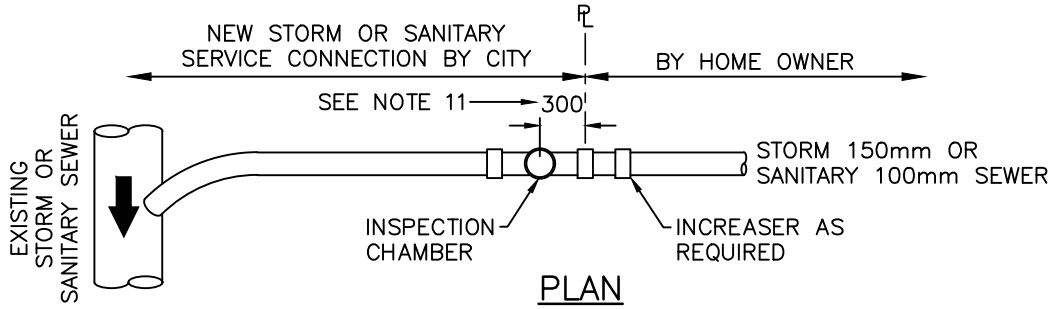
1. THE DEVELOPER MUST OBTAIN ALL REQUIRED PLUMBING AND SERVICE CONNECTION PERMITS FROM THE CITY OF BURNABY PRIOR TO COMMENCING EXCAVATION OR INSTALLATION.
2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE MMCD AND CITY OF BURNABY SUPPLEMENTAL SPECIFICATIONS.
3. THE CITY–INSTALLED 75mm SERVICE CONNECTION SHALL BE PRESSURE–RATED HDPE.
4. PRESSURIZED SERVICE CONNECTIONS ARE NOT ACCEPTABLE WHEN A GRAVITY SERVICE CONNECTION IS POSSIBLE.
5. THIS DRAWING REPRESENTS THE MINIMUM REQUIREMENTS FOR A LOW–FLOW PRESSURIZED CONNECTION. ADDITIONAL REQUIREMENTS MAYBE DICTATED BY THE CITY ENGINEER.
6. THE PRIVATE DEVELOPER IS RESPONSIBLE FOR INSTALLING THE PUBLIC SIDE OF THE SERVICE CONNECTION IN SITUATIONS WHERE THE DEVELOPMENT IS RESPONSIBLE FOR OFF–SITE WORKS.
7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

PUMP DRAINAGE CONNECTION

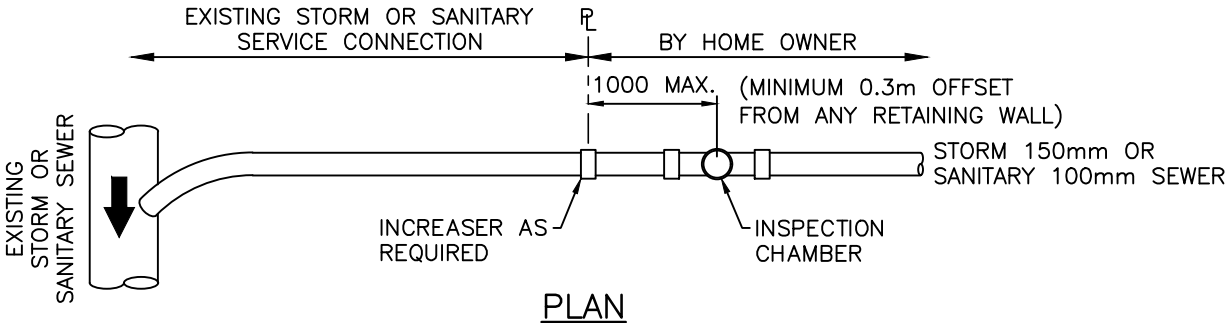
DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S119
CHECKED BY:	AM	DATE:	JULY 2026	

2026



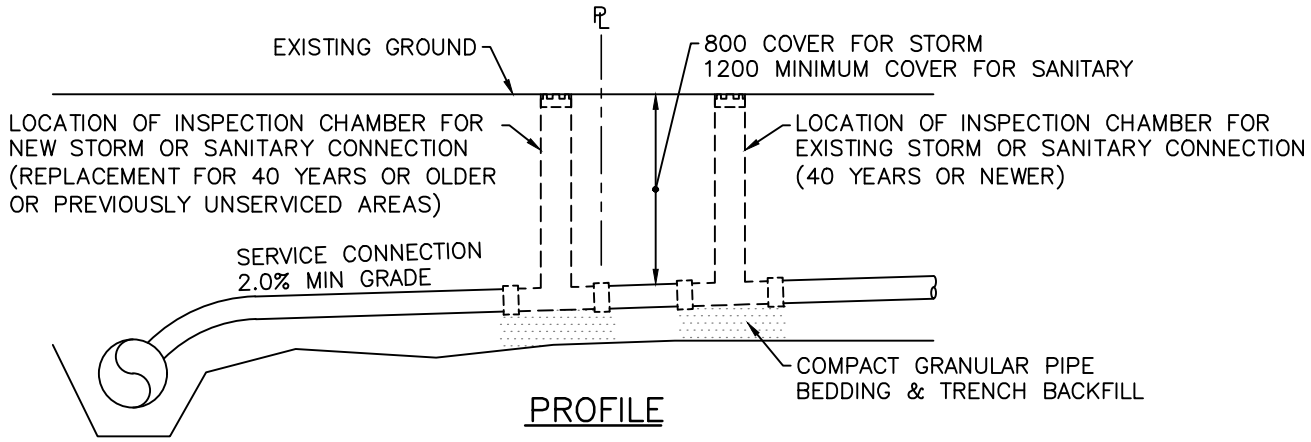
PLAN

NEW STORM OR SANITARY CONNECTION REPLACEMENT FOR 40 YEARS OR OLDER OR PREVIOUSLY UNSERVICED AREAS



PLAN

LOCATION OF NEW INSPECTION CHAMBER FOR EXISTING CONNECTION FOR 40 YEARS OR NEWER



PROFILE

NOTES:

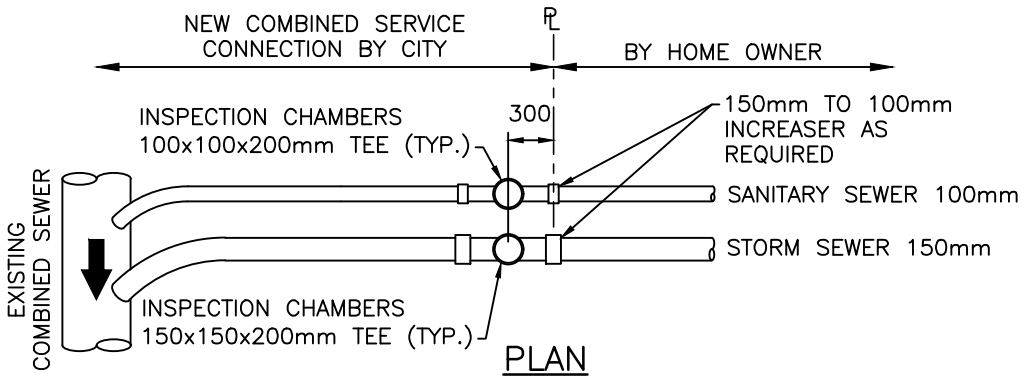
1. INSPECTION CHAMBER AND RISER PIPE SHALL BE PLUMB VERTICAL.
2. INSPECTION CHAMBER LIDS SHALL BE COLOURED GREEN FOR STORM AND RED FOR SANITARY.
3. STORM SEWER CONNECTIONS TO BE 150mm INSPECTION CHAMBERS OR AS SPECIFIED ON CONTRACT DRAWINGS.
4. SANITARY SEWER CONNECTIONS TO BE 100mm INSPECTION CHAMBERS OR AS SPECIFIED ON CONTRACT DRAWINGS.
5. SEE DRAWING BBY–S122 FOR DETAILS OF INSPECTION CHAMBER AND INSTALLATION REQUIREMENTS.
6. HOME OWNER SHALL BE RESPONSIBLE FOR LOCATION AND PROTECTING ALL EXISTING UNDERGROUND UTILITIES ON PRIVATE PROPERTY DURING CONSTRUCTION.
7. HOME OWNER RESPONSIBLE TO PLUG INSPECTION CHAMBER FOR TESTING ON PRIVATE PROPERTY.
8. HOME OWNER MUST REMOVE PLUG AND FLAPS IN INSPECTION CHAMBER AFTER TESTING AS PER PLUMBING DEPARTMENT INSPECTION.
9. HOME OWNER TO INSTALL INSPECTION CHAMBER WHEN TYING TO EXISTING SERVICE CONNECTION UNDER PLUMBING DEPARTMENT INSPECTION.
10. MINIMUM AND MAXIMUM GRADE OF SERVICE CONNECTIONS AS SHOWN, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
11. IF THERE IS A RETAINING WALL, INSPECTION CHAMBER TO BE INSTALLED A MAXIMUM 1.0m BACK FROM PROPERTY LINE.
12. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

SERVICE CONNECTION TO STORM OR SANITARY SEWER

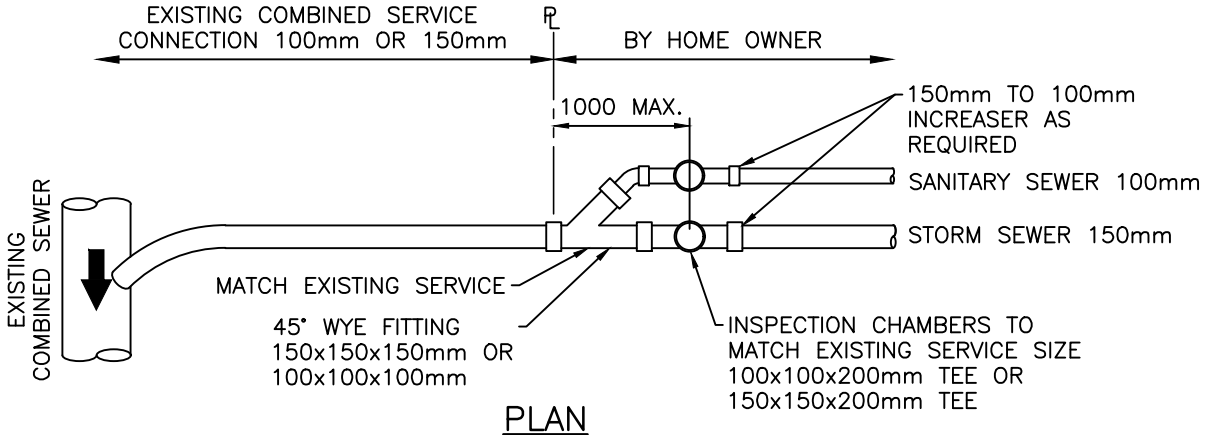
DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S120
CHECKED BY:	AM	DATE:	JULY 2026	

2026



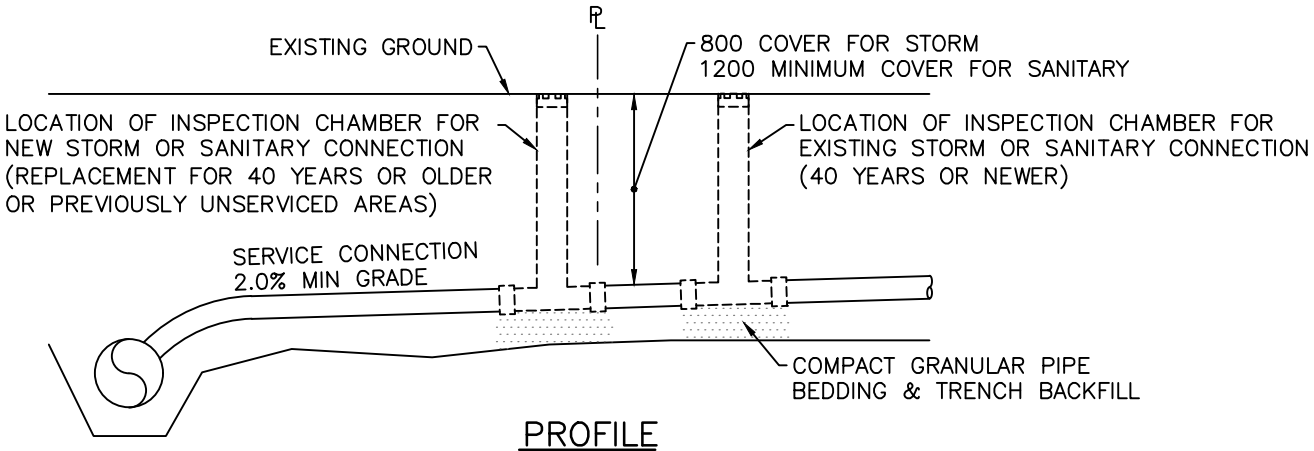
PLAN

NEW STORM AND SANITARY INSTALLATION



PLAN

LOCATION OF NEW INSPECTION CHAMBERS FOR EXISTING CONNECTION



PROFILE

NOTES:

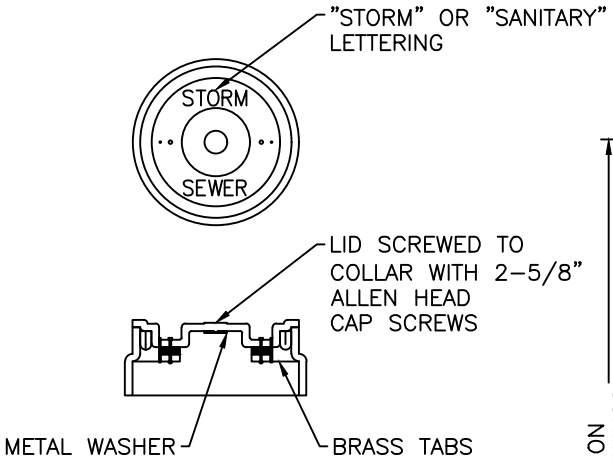
1. INSPECTION CHAMBERS AND RISER PIPE SHALL BE PLUMB VERTICAL.
2. INSPECTION CHAMBER LID SHALL BE COLOURED RED FOR COMBINED.
3. SEE DRAWING BBY–122 FOR DETAILS OF INSPECTION CHAMBER AND INSTALLATION REQUIREMENTS.
4. HOME OWNER SHALL BE RESPONSIBLE FOR LOCATION AND PROTECTING ALL EXISTING UNDERGROUND UTILITIES ON PRIVATE PROPERTY DURING CONSTRUCTION.
5. HOME OWNER RESPONSIBLE TO PLUG INSPECTION CHAMBER FOR TESTING ON PRIVATE PROPERTY.
6. HOME OWNER MUST REMOVE PLUG AND FLAPS IN INSPECTION CHAMBER AFTER TESTING AS PER PLUMBING DEPARTMENT.
7. HOME OWNER TO INSTALL INSPECTION CHAMBER WHEN TYING TO EXISTING SERVICE CONNECTION UNDER PLUMBING DEPARTMENT INSPECTION.
8. HOME OWNER CAN ROTATE WYE FITTING TO SUIT LOCATION OF STORM SEWER PIPE.
9. MINIMUM AND MAXIMUM GRADE OF SERVICE CONNECTIONS AS SHOWN, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
10. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

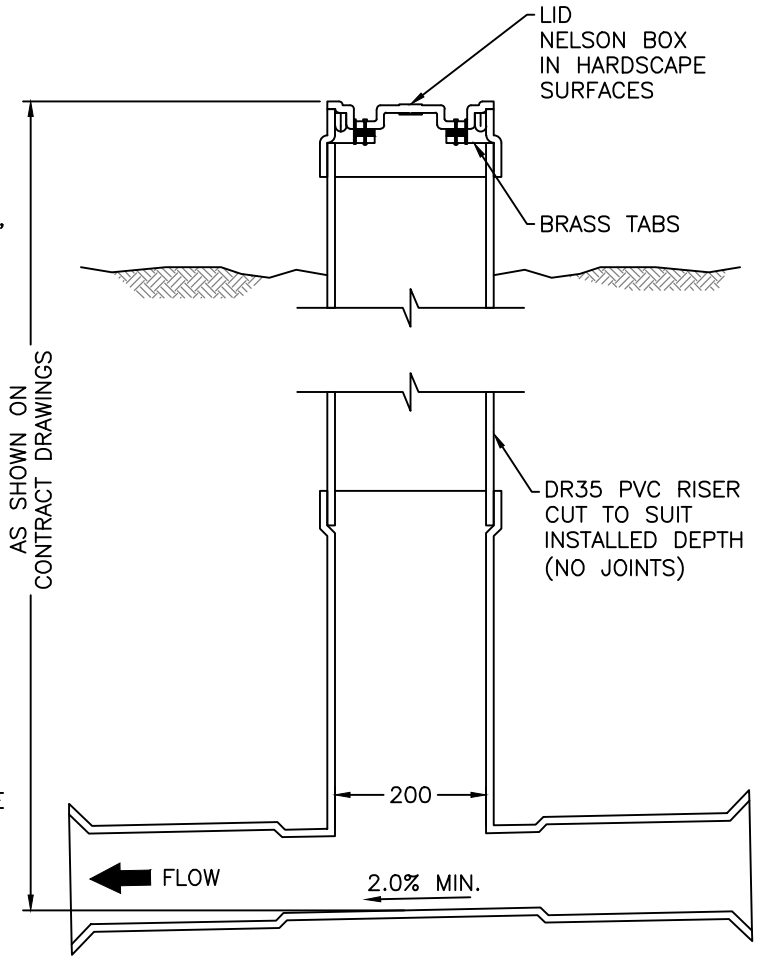
SERVICE CONNECTION TO COMBINED SEWER

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S121
CHECKED BY:	AM	DATE:	JULY 2026	

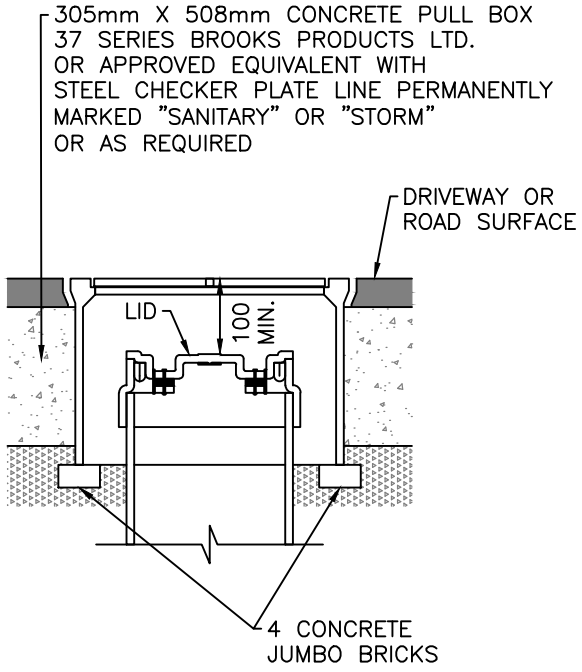
2026



LID DETAIL



SECTION
INSTALLATION IN BOULEVARD



SECTION
INSTALLATION IN
DRIVEWAY AND ROAD

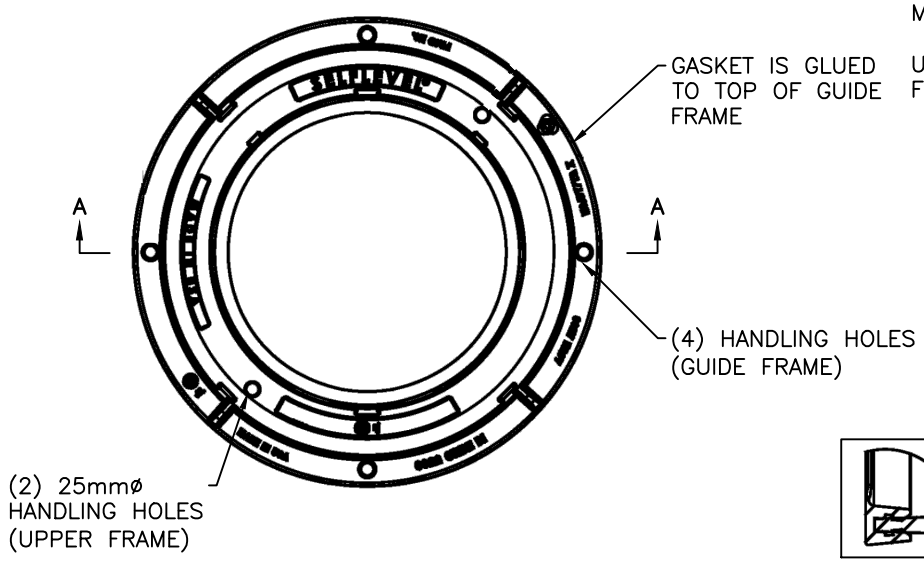
NOTES:
1. REFER TO DRAWING BBY–S120 & BBY–S121 FOR INSTALLATION REQUIREMENTS.
2. USE AN APPROVED MANUFACTURED FITTING.
3. LIDS SHOULD BE COLOURED GREEN FOR STORM AND RED FOR SANITARY AND COMBINED.
4. REFER TO CONTRACT DRAWINGS FOR SITE SPECIFIC DIMENSIONS AND SECTION 33 30 01 OF MASTER MUNICIPAL SPECIFICATIONS FOR DETAILS SPECIFICATIONS.
5. FACTORY INSTALLED PLUGS IN INSPECTION CHAMBERS ARE NOT PERMITTED.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

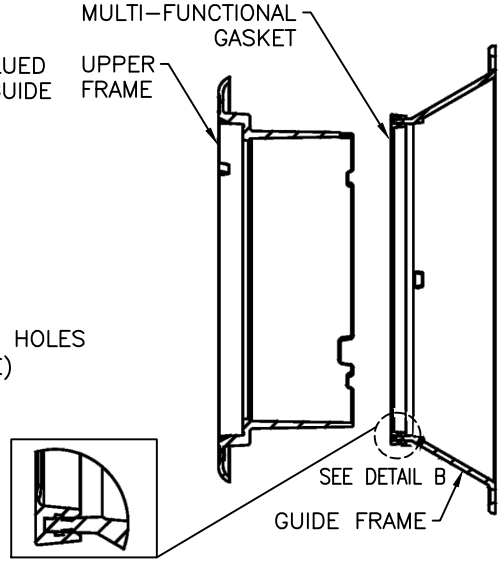
INSPECTION CHAMBER FOR 100mm TO 200mm SERVICE CONNECTION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S122
CHECKED BY:	AM	DATE:	JULY 2026	

2026

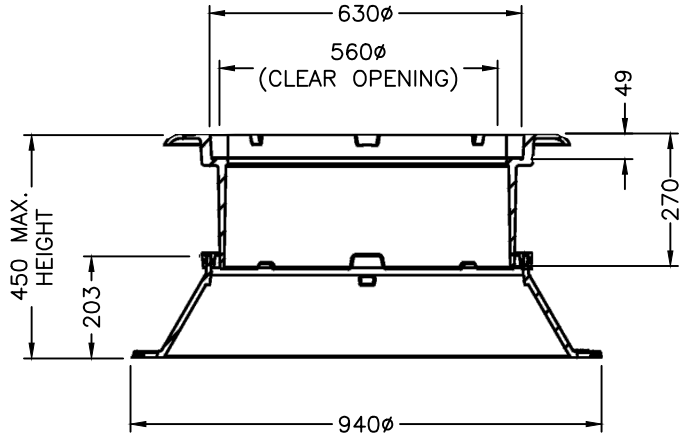


PLAN

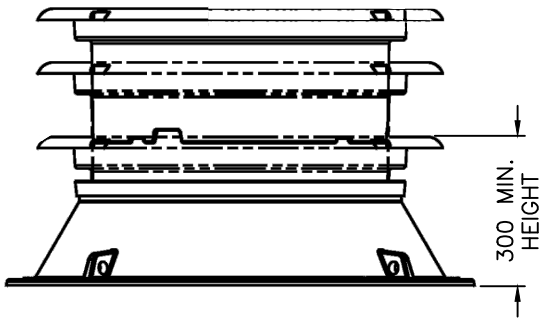


DETAIL B

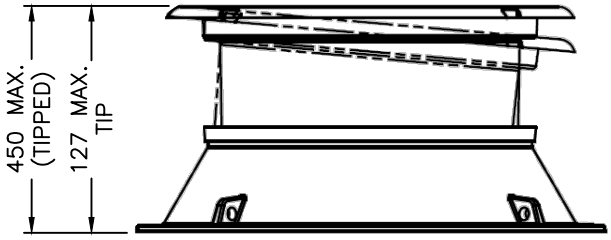
EXPLODED SECTION VIEW



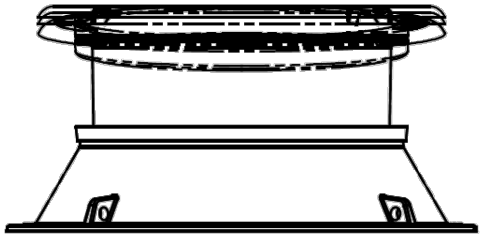
SECTION A–A



SIDE VIEW
(SHOWING TRAVEL OF UPPER FRAME)



FRONT VIEW
(SHOWING MAXIMUM TIP @ 5° ANGLE)



SIDE VIEW
(SHOWING MAXIMUM TIP @ 5° ANGLE)

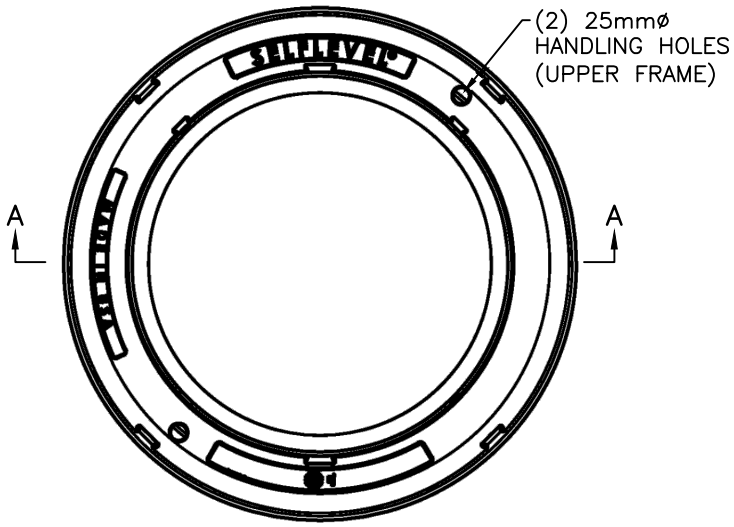
NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

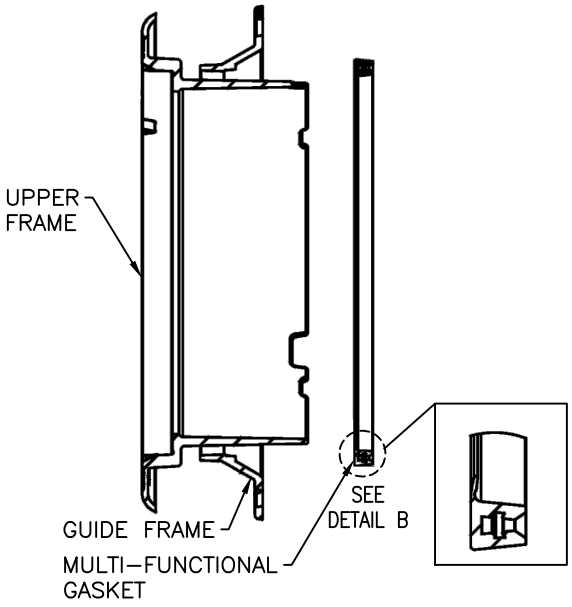
SELF LEVEL MANHOLE DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S124A
CHECKED BY:	AM	DATE:	JULY 2026	

2026

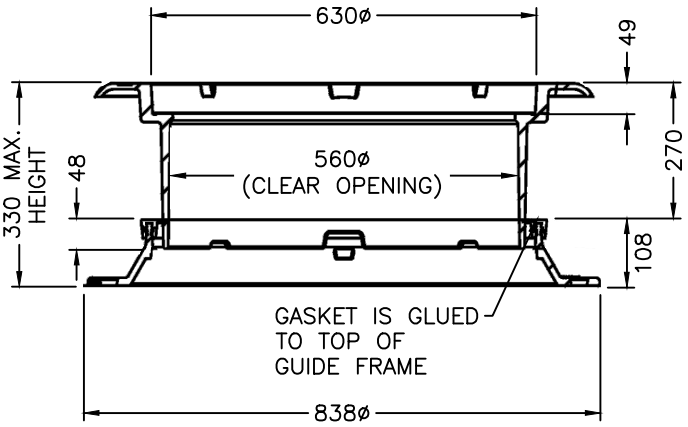


PLAN



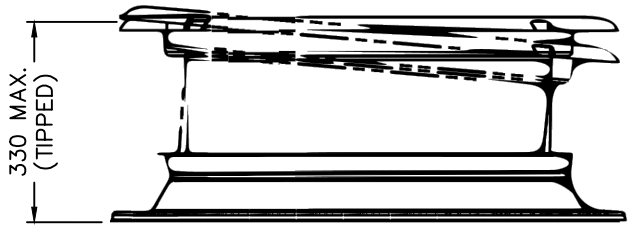
EXPLODED
SECTION VIEW

DETAIL B

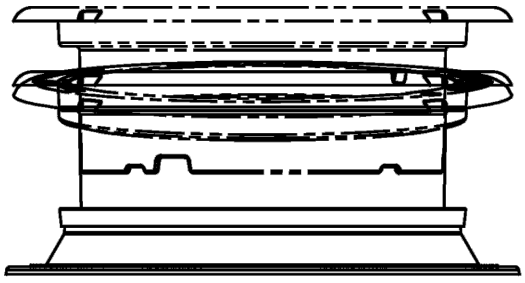


SECTION A–A

SIDE VIEW
(SHOWING TRAVEL OF UPPER FRAME)



FRONT VIEW
(SHOWING MAXIMUM TIP @ 5° ANGLE)



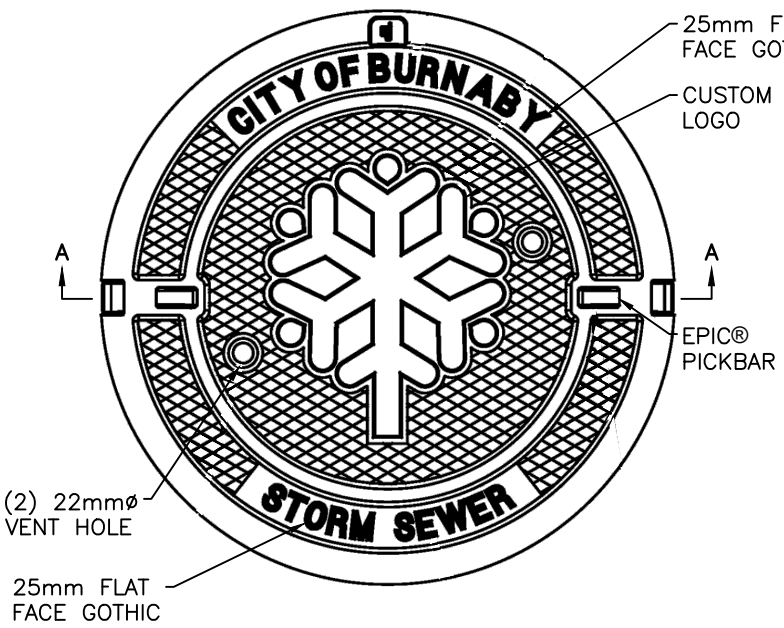
SIDE VIEW
(SHOWING MAXIMUM TIP @ 5° ANGLE)

NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

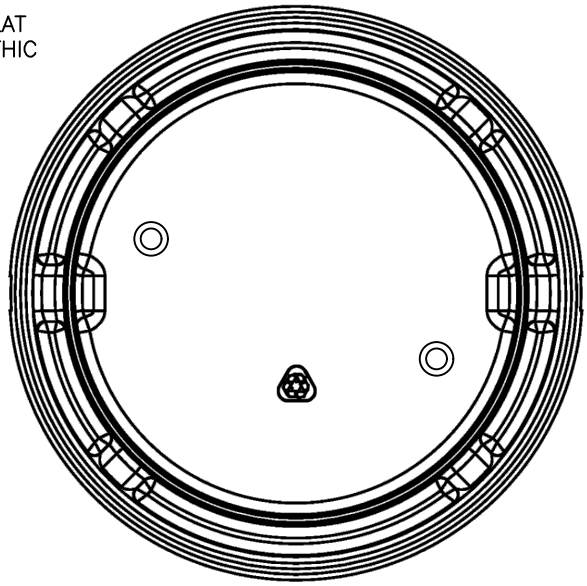
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

LOW PROFILE SELF LEVEL MANHOLE DETAILS

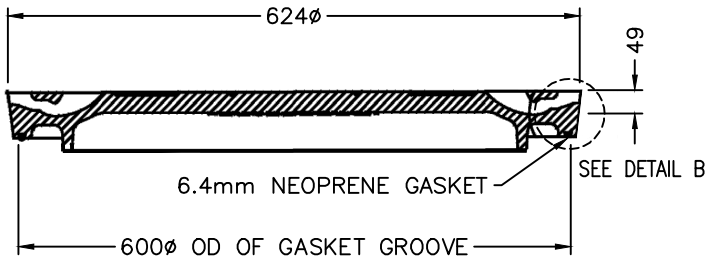
DRAWN BY: SM	SCALE: N.T.S.	**BBY-** S124B	2026
CHECKED BY: AM	DATE: JULY 2026		



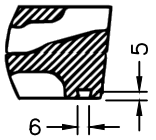
PLAN



BOTTOM VIEW



SECTION A–A



DETAIL B

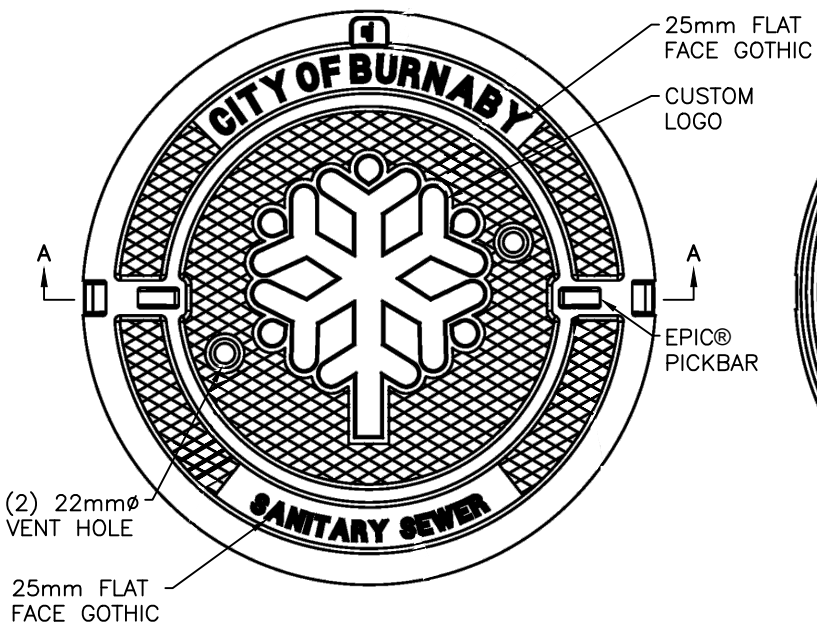
NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

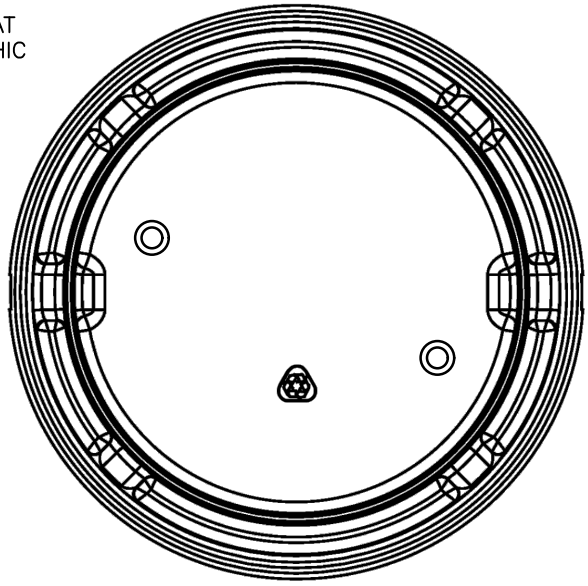
BURNABY STORM SEWER LID DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S125
CHECKED BY:	AM	DATE:	JULY 2026	

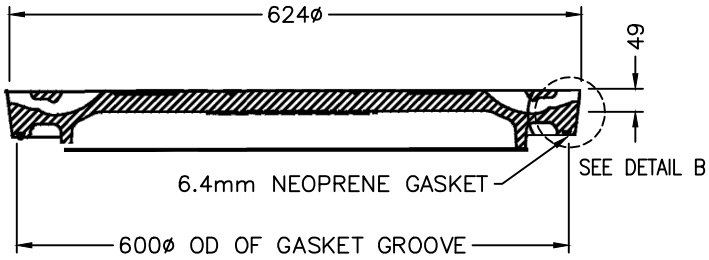
2026



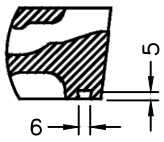
PLAN



BOTTOM VIEW



SECTION A–A



DETAIL B

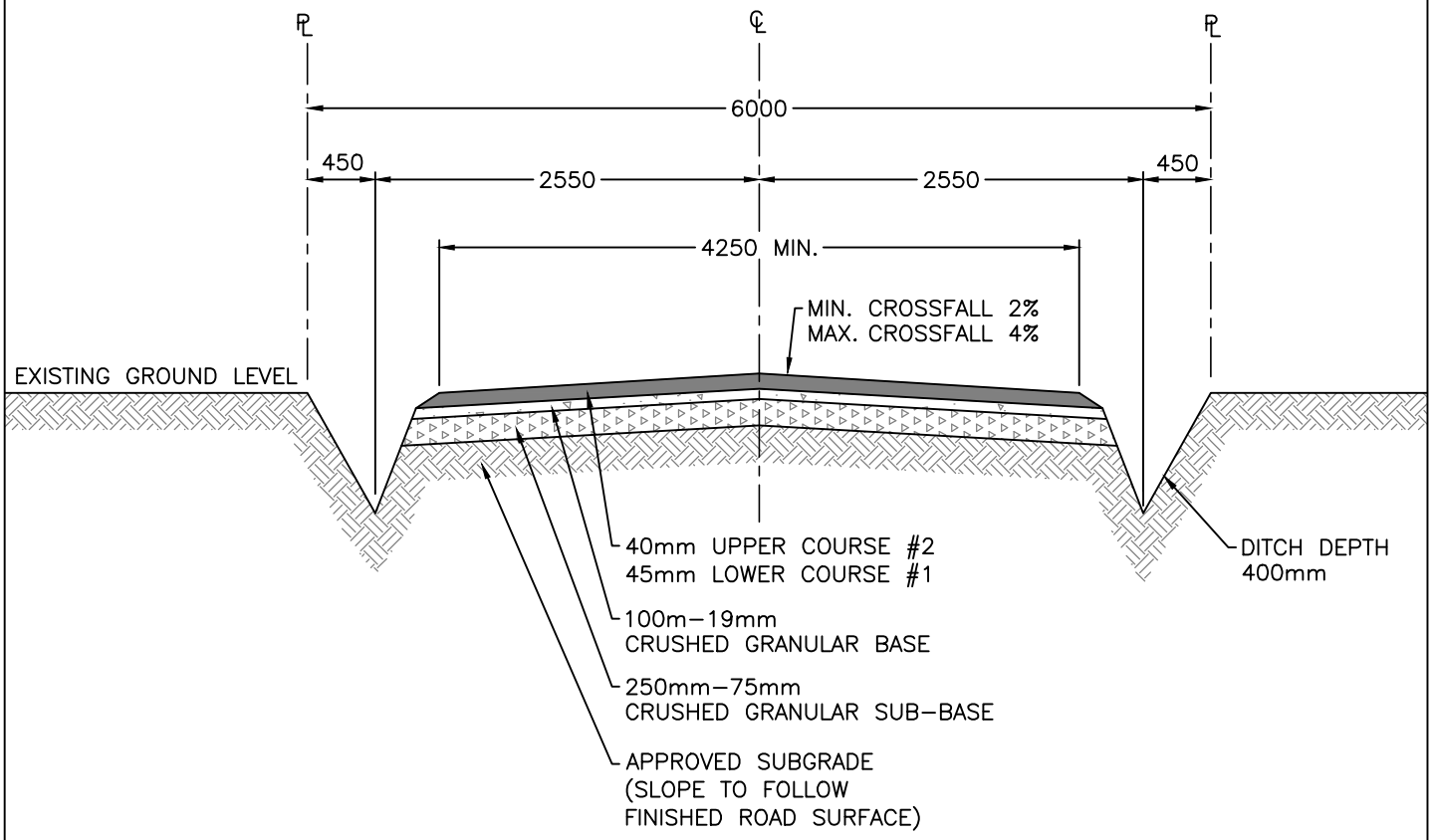
NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

BURNABY SANITARY SEWER LID DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- S127
CHECKED BY:	AM	DATE:	JULY 2026	

2026



NOTES:

1. THIS SECTION IS APPLICABLE WHERE THE PROPERTIES ON BOTH SIDES ARE TO BE SERVED WITH A DITCH FOR DRAIN TILE DISPOSAL.
2. TWO DITCH–TYPE (I OR II) C.B.'S ARE TO BE PROVIDED OR AN EASEMENT. IF THE OPEN DITCHES ARE NOT OF EXCESSIVE LENGTH, A 250mm CULVERT MAY BE INSTALLED FROM ONE DITCH INTO THE C.B. BARREL IN THE OTHER DITCH.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

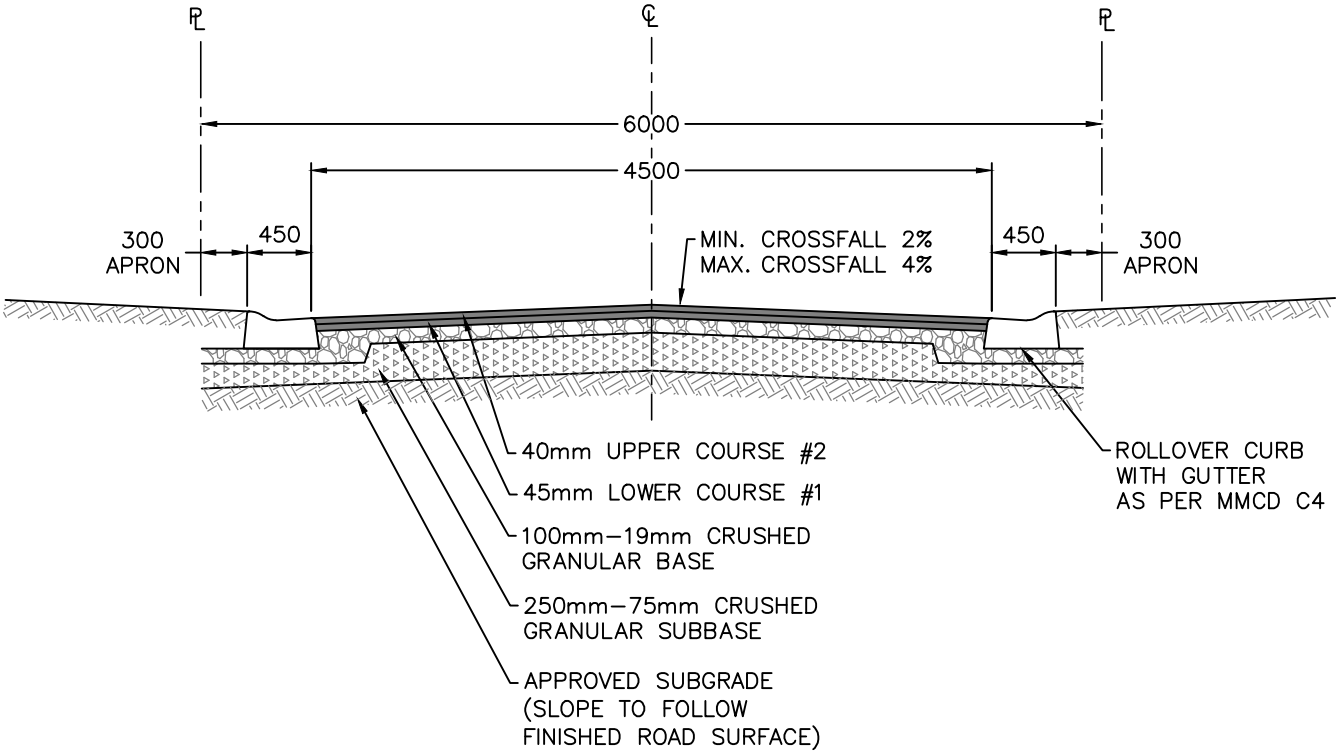
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL LANE – CROWN SECTION NO CONCRETE CURB

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- R101A

2026



NOTES:

1. PAVEMENT STRUCTURE INCLUDING BASE GRAVELS TO BE AS PER CITY OF BURNABY DRAWING BBY–R114.
2. TYPE V CB'S ARE TO BE INSTALLED AT LOW POINTS AND CONNECTED TO STORM SEWER.
3. TYPE V CB'S ARE TO BE INSTALLED WHERE THE LANEWAY INTERSECTS A ROADWAY.
4. REFER TO BURNABY DRAWING BBY–S110 FOR TYPE V CB DETAILS.
5. PAVED APRONS ARE ONLY PERMITTED AT DRIVEWAYS, GARAGE DOORS AND/OR PEDESTRIAN ENTRANCES. OTHERWISE APRONS ARE TO BE GRAVEL OR GRASS.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

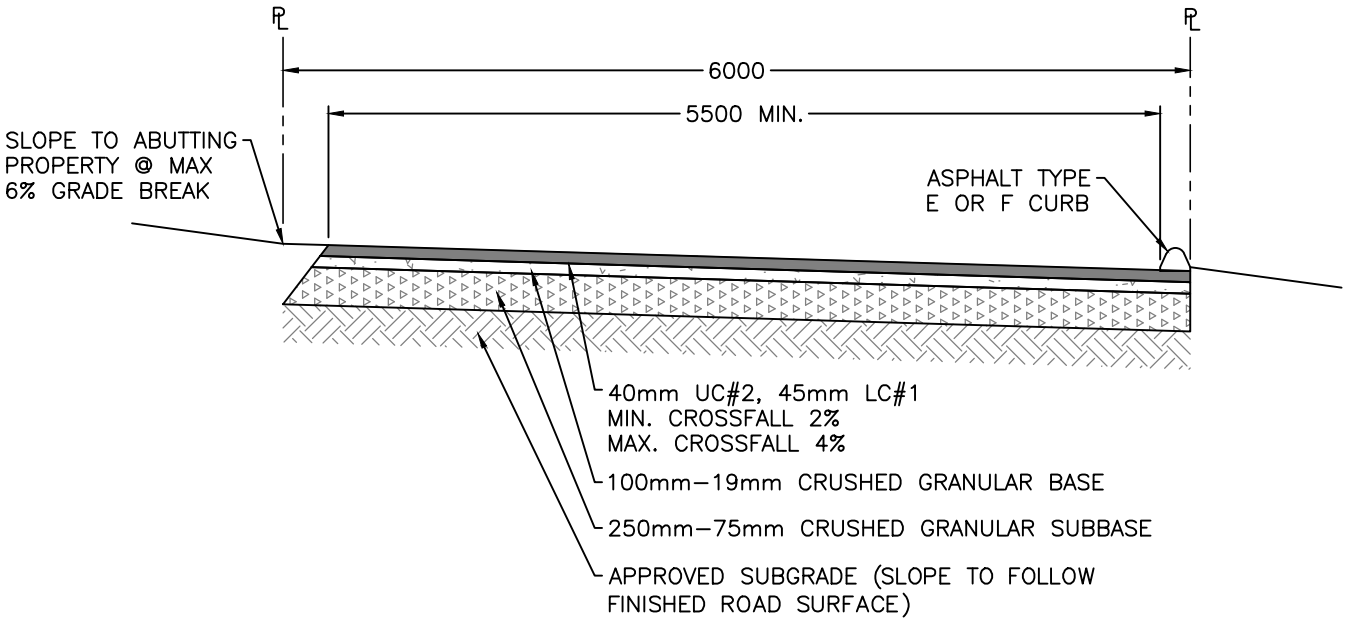
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL LANE – CROWN SECTION WITH CONCRETE CURB

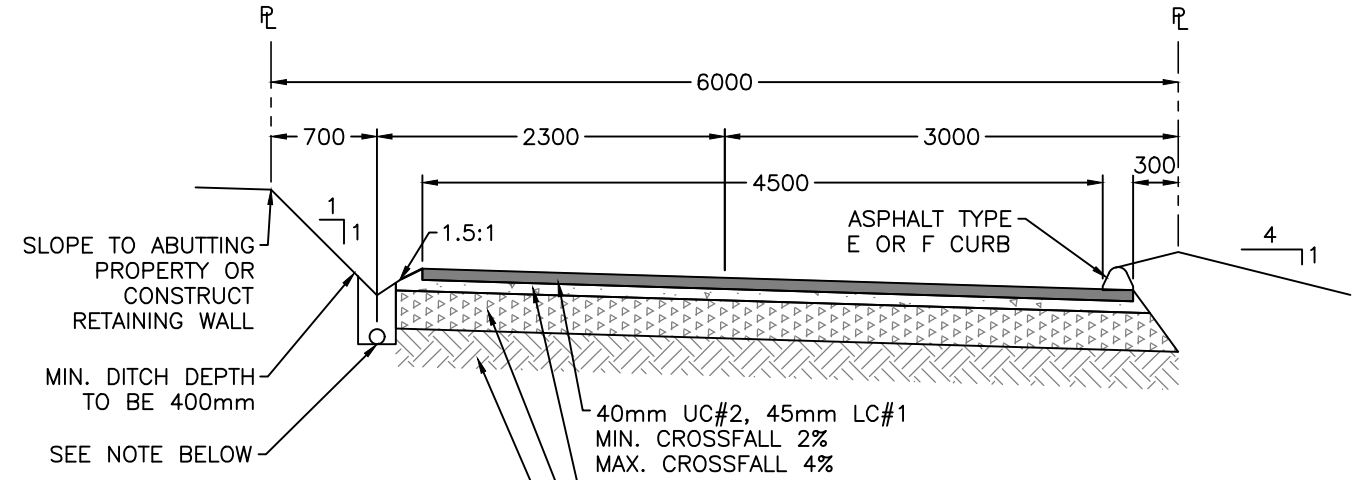
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY– R101B

2026



LANE



NOTE: LANE WITH DITCH

1. SECTION IS APPLICABLE WHERE THE PROPERTIES ON THE HIGH SIDE REQUIRED A DITCH FOR DRAIN TILE DISCHARGES.
2. A DITCH TYPE (I OR II) CB AND A TYPE V CB ARE TO PROVIDED WHEN THE LANE INTERSECTS A STORM SEWER ON A STREET OR AN EASEMENT. IF THE OPEN DITCH IS NOT OF EXCESSIVE LENGTH, A 250mm CULVERT MAY BE TAPPED INTO THE BARREL OF THE TYPE V CB.

WHERE DEVELOPER CONTROLS ABUTTING PROPERTIES, BOULEVARD SLOPES (CUT OF FILL) ARE TO BE MADE OUTSIDE OF THE LANE ALLOWANCE.

LANE WITH DITCH

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

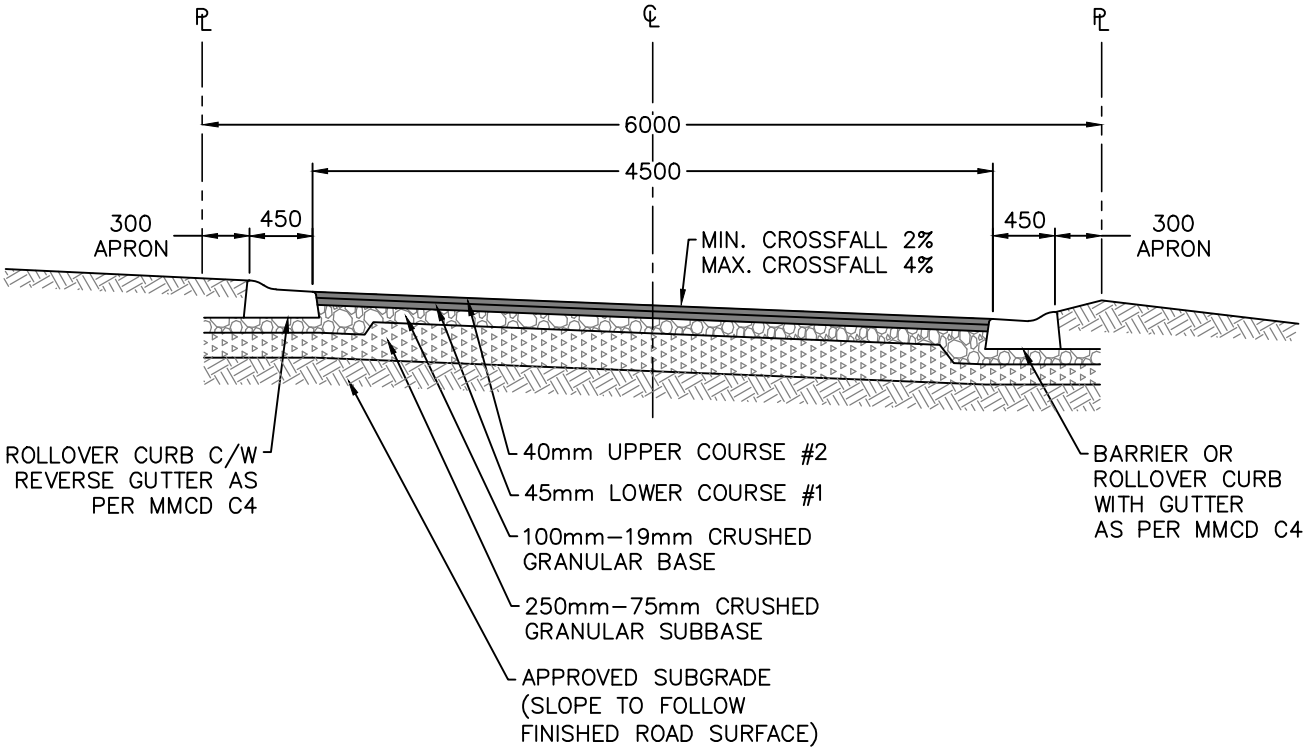
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL LANE – CROSSFALL SECTION NO CONCRETE CURB

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- R102A

2026



NOTES:

1. PAVEMENT STRUCTURE INCLUDING BASE GRAVELS TO BE AS PER CITY OF BURNABY DRAWING BBY–R114.
2. TYPE V CB'S ARE TO BE INSTALLED AT LOW POINTS AND CONNECTED TO STORM SEWER.
3. TYPE V CB'S ARE TO BE INSTALLED WHERE THE LANEWAY INTERSECTS A ROADWAY.
4. REFER TO BURNABY DRAWING BBY–S110 FOR TYPE V CB DETAILS.
5. PAVED APRONS ARE ONLY PERMITTED AT DRIVEWAYS, GARAGE DOORS AND/OR PEDESTRIAN ENTRANCES. OTHERWISE APRONS ARE TO BE GRAVEL OR GRASS.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

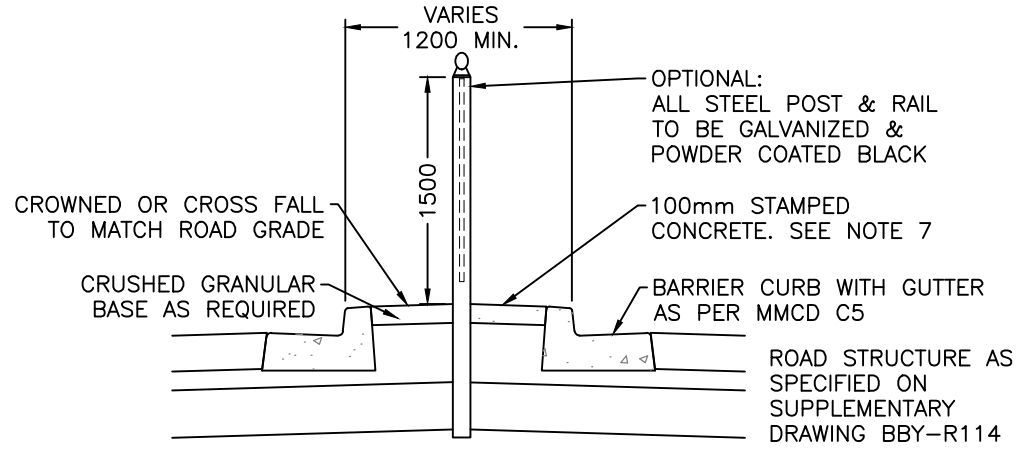
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL LANE – CROSSFALL SECTION WITH CONCRETE CURB

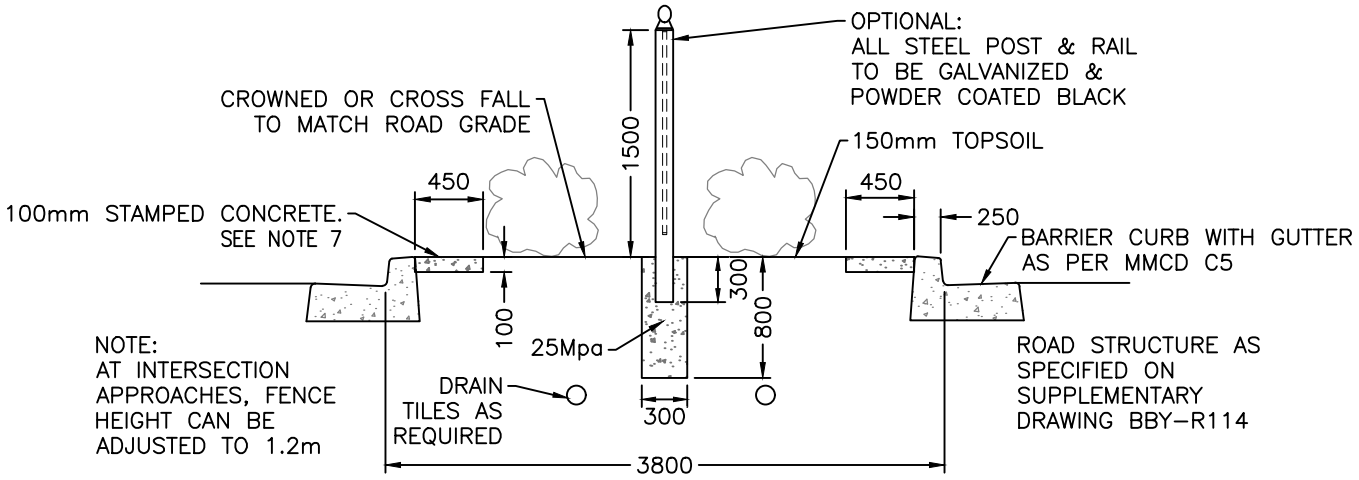
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- R102B

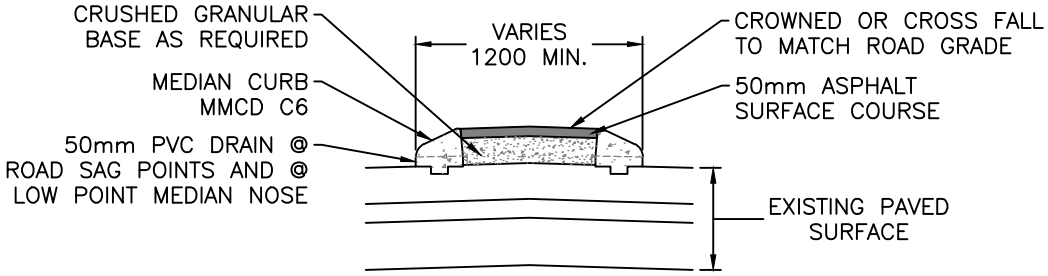
2026



NARROW MEDIAN/ISLAND



WIDE MEDIAN



TEMPORARY MEDIAN/ISLAND

NOTES:

1. CURB & GUTTER (MMCD C5) REQUIRED FOR ALL MEDIAN/ISLAND ON NEW ROAD CONSTRUCTION & EXISTING ROADS WHERE PAVEMENT REMOVAL AND BASE REGRADING IS REQUIRED.
2. MEDIAN CURB (MMCD C6) ONLY USED WHERE ADDING A MEDIAN/ISLAND ON TOP OF AN EXISTING PAVED ROADWAY.
3. FULL CONCRETE INFILL AT MEDIAN HOSE AND BETWEEN CURBS EXTENDED TO THE POINT WHERE MEDIAN WIDTH BECOMES 3.0m.
4. CONCRETE BUFFER STRIPS REQUIRED ADJACENT TO CURB ON BOTH SIDES FOR ALL MEDIANS EXCEEDING 3.0m IN WIDTH.
5. ASPHALT INFILL ONLY ALLOWED FOR TEMPORARY MEDIAN/ISLAND AS APPROVED BY THE CITY ENGINEER.
6. WHEELCHAIR RAMPS REQUIRED AT MEDIANS/ISLANDS FOR DESIGNATED CROSSWALKS. WHEELCHAIR RAMP & CONNECTION WALKS BETWEEN RAMPS TO BE CONCRETE SIDEWALK, WITH INFILL AREAS TO BE STAMPED CONCRETE.
7. 100mm – STAMPED CONCRETE COLOURED WITH "LAFARGE – ARITEVIA SLATE, PREMIUM" COLOUR OF APPROVED EQUIVALENT. APPLICATION TO BE COMPLETED TO THE MANUFACTURER'S SPECIFICATIONS.
8. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

RAISED MEDIAN AND FENCE

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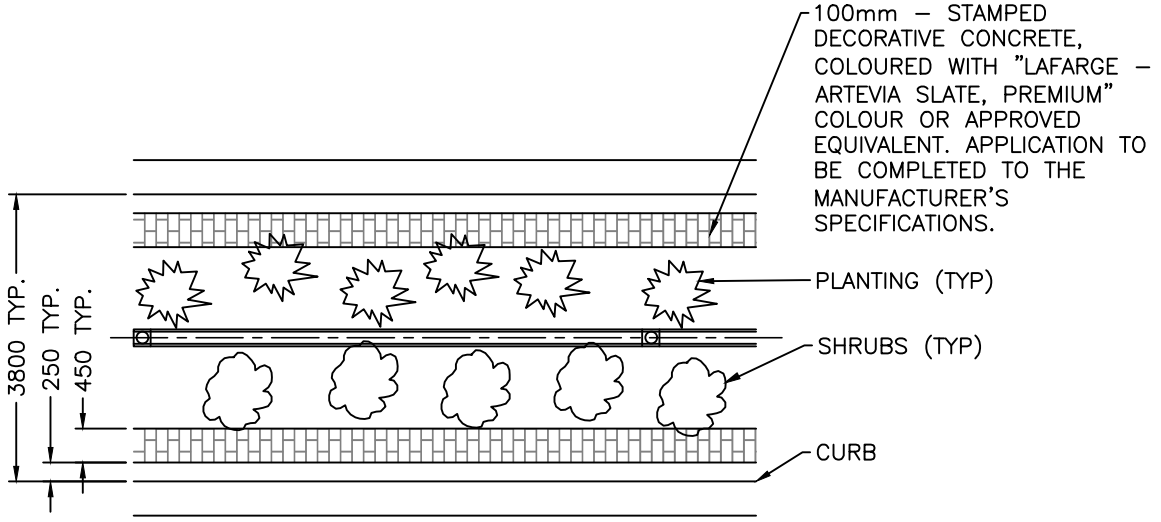
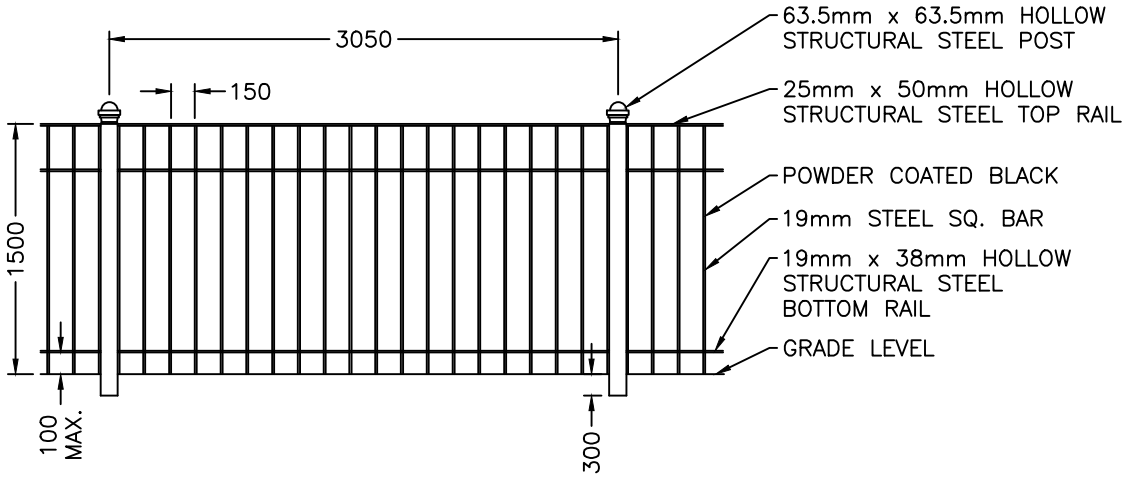
CHECKED BY:	KW	DATE:	JULY 2026

BBY– R109A

2026



PLAN
TYPICAL STEEL FENCE DETAIL



ELEVATION

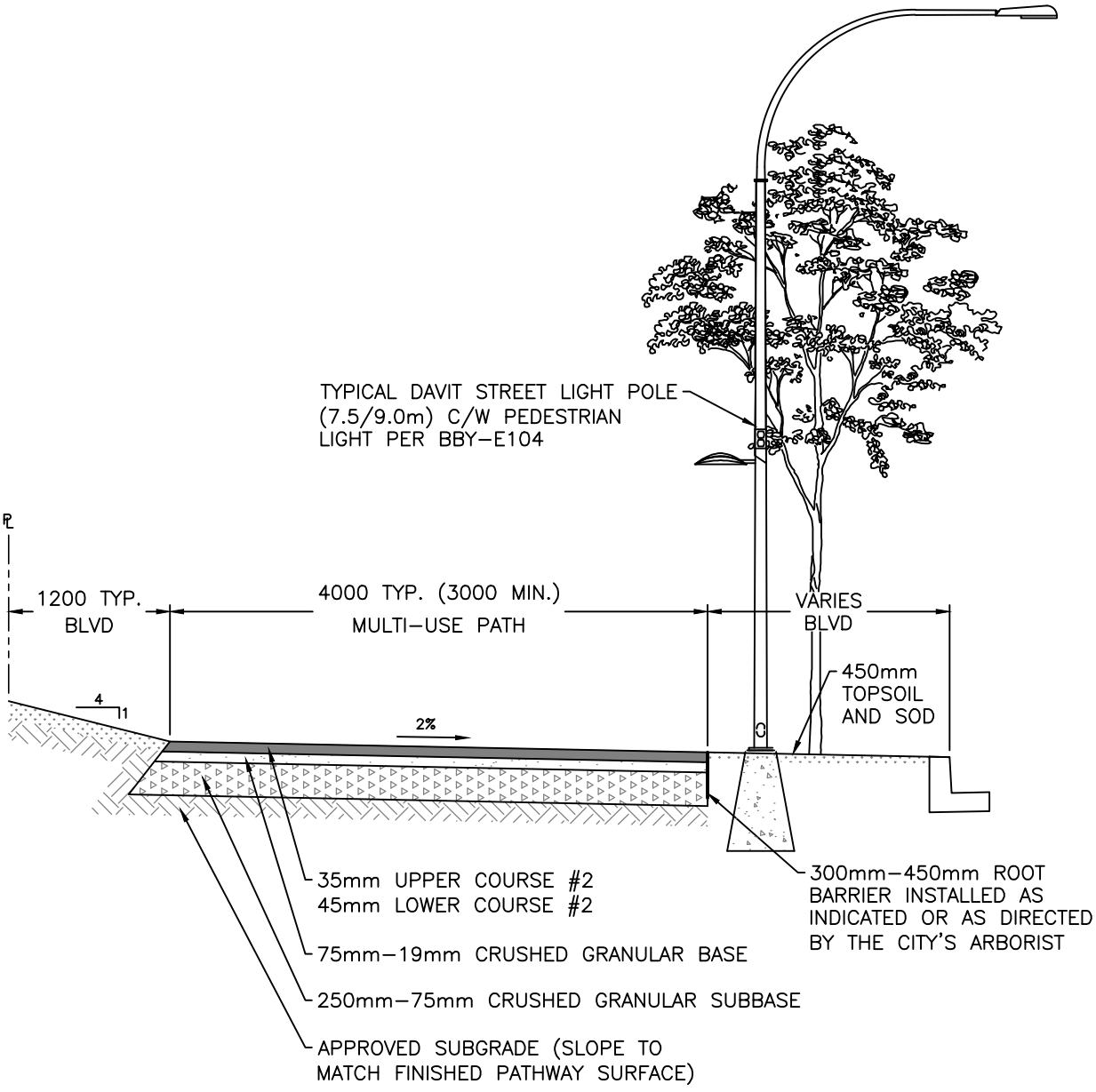
NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

RAISED MEDIAN AND FENCE PLAN AND ELEVATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- R109B
CHECKED BY:	KW	DATE:	JULY 2026	

2026



NOTES:
1. PAVEMENT STENCIL AND SIGNAGE TO FOLLOW B.C. ACTIVE DESIGN GUIDE.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

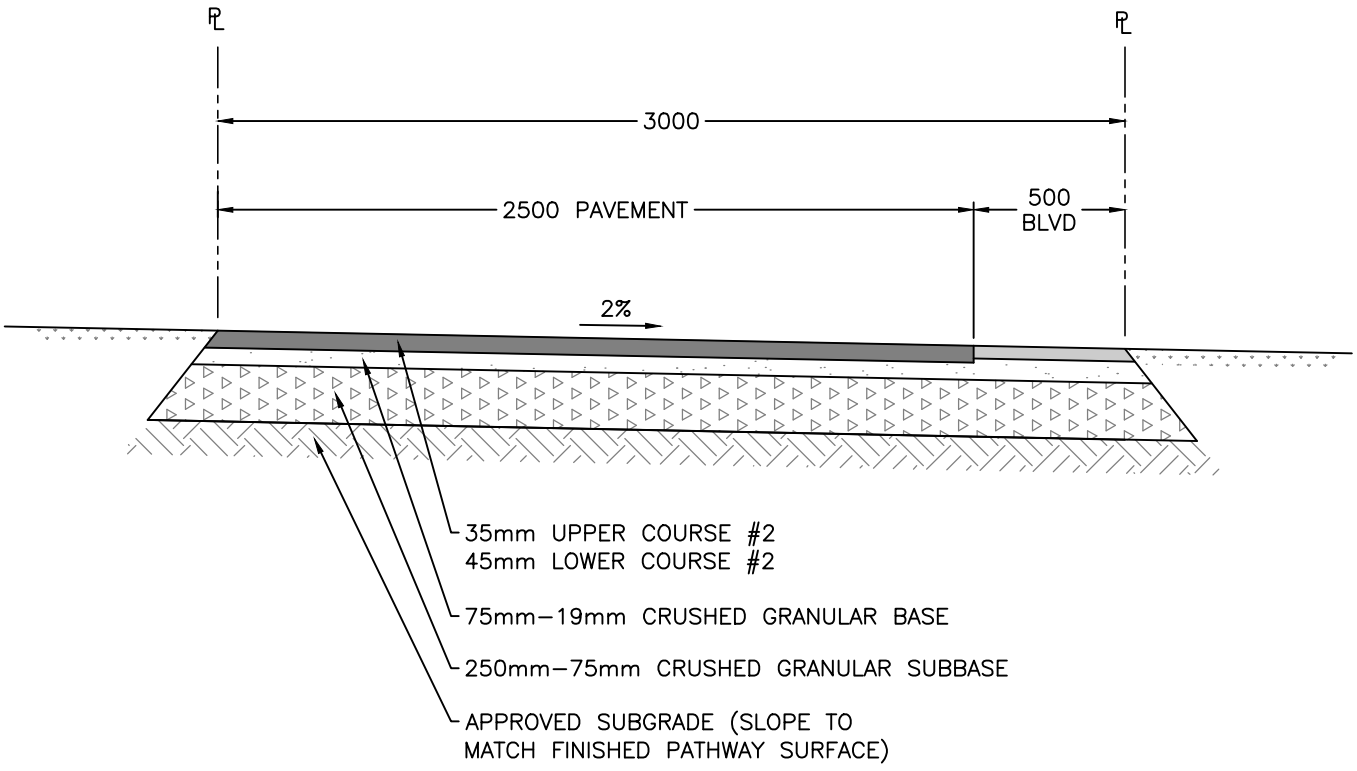
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL ASPHALT MULTI–USE PATHWAY

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY– R111A

2026



NOTES:
1. PAVEMENT STENCIL AND SIGNAGE TO FOLLOW B.C. ACTIVE DESIGN GUIDE.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

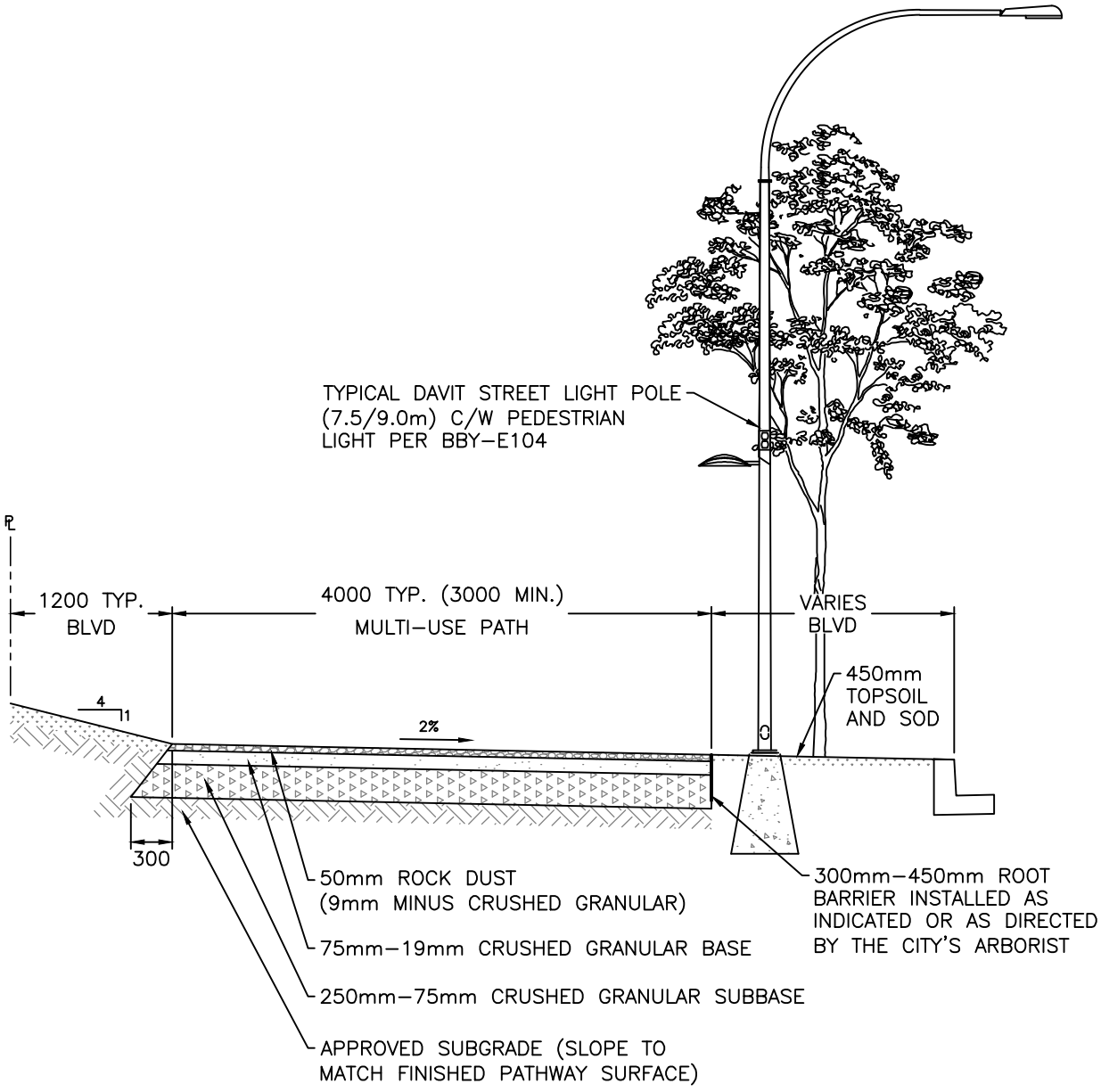
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL CROSS SECTION MID–BLOCK WALKWAY

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- R111B

2026



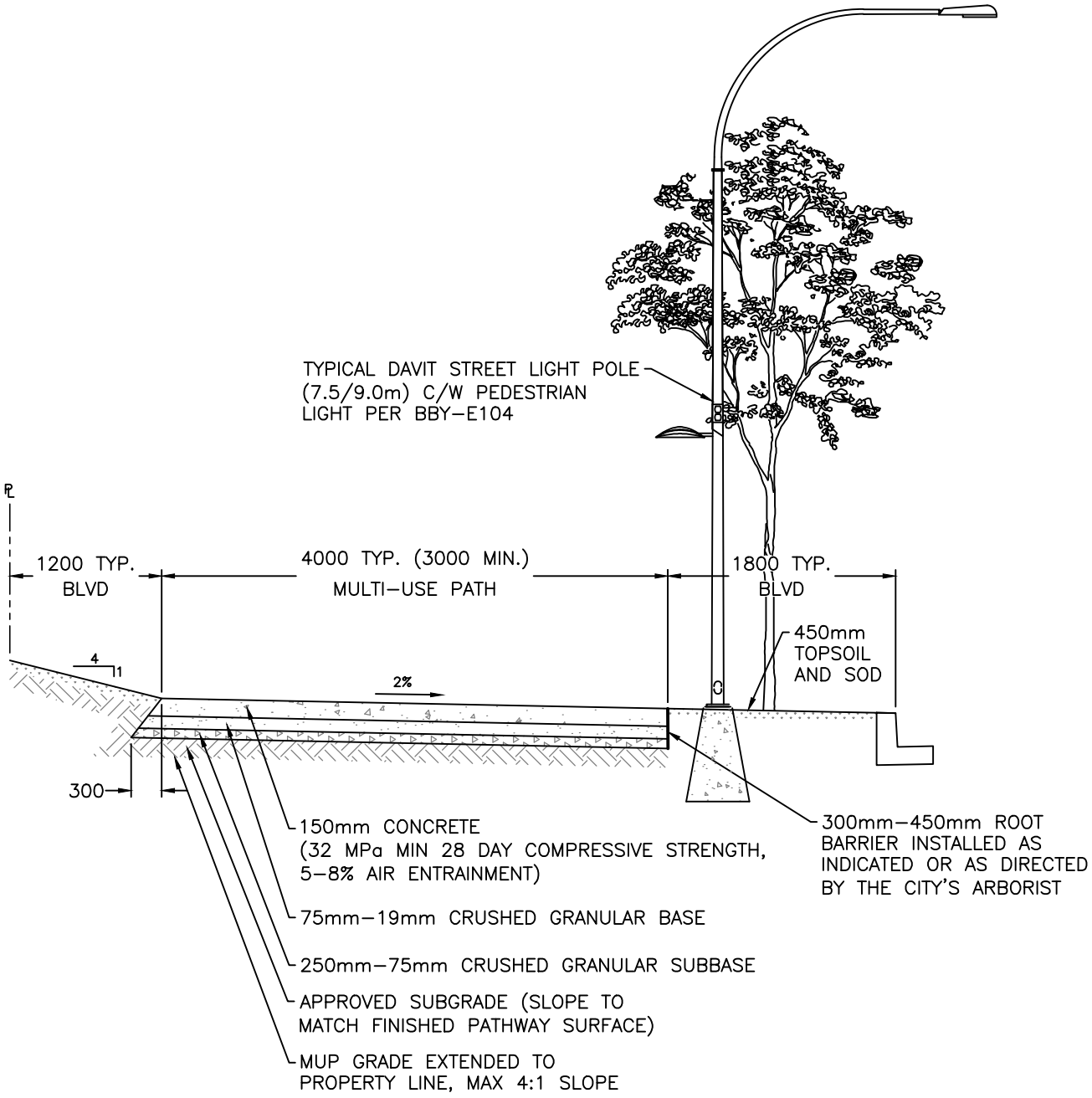
NOTES:
1. PAVEMENT STENCIL AND SIGNAGE TO FOLLOW BC ACTIVE DESIGN GUIDE.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL ROCK DUST MULTI–USE PATHWAY

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- R112
CHECKED BY:	KW	DATE:	JULY 2026	

2026



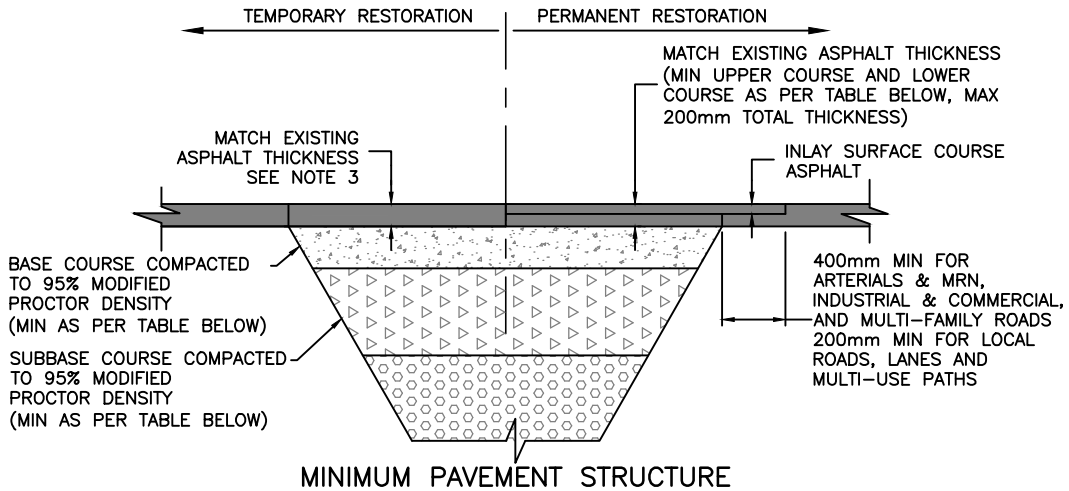
NOTES:
1. PAVEMENT STENCIL AND SIGNAGE TO FOLLOW BC ACTIVE DESIGN GUIDE.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TYPICAL CONCRETE MULTI–USE PATHWAY

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- R113
CHECKED BY:	KW	DATE:	JULY 2026	

2026



MINIMUM PAVEMENT STRUCTURE

ROAD CLASSIFICATION	SUB-CLASS	SURFACE COURSE ASPHALT	LOWER COURSE ASPHALT	BASE COURSE	SUBBASE COURSE
LOCAL	COMMERCIAL / INDUSTRIAL	50mm UPPER COURSE #1	100mm LOWER COURSE #1 (IN TWO LIFTS)	100mm-19mm CRUSHED GRANULAR BASE	300mm-19mm CRUSHED GRANULAR BASE*
	MULTI-FAMILY	50mm UPPER COURSE #1	75mm LOWER COURSE #1	100mm-19mm CRUSHED GRANULAR BASE	250mm-19mm CRUSHED GRANULAR BASE*
	RESIDENTIAL	40mm UPPER COURSE #2	45mm LOWER COURSE #1	100mm-19mm CRUSHED GRANULAR BASE	250mm-19mm CRUSHED GRANULAR BASE*
LOCAL - AGRICULTURAL	AGRICULTURAL	50mm UPPER COURSE #1	100mm LOWER COURSE #1 (IN TWO LIFTS)	100mm-19mm CRUSHED GRANULAR BASE	300mm-19mm CRUSHED GRANULAR BASE*
MINOR COLLECTOR	COMMERCIAL / INDUSTRIAL / AGRICULTURAL	50mm UPPER COURSE #1	100mm LOWER COURSE #1 (IN TWO LIFTS)	100mm-19mm CRUSHED GRANULAR BASE	300mm-19mm CRUSHED GRANULAR BASE*
	MULTI-FAMILY	50mm UPPER COURSE #1	75mm LOWER COURSE #1	100mm-19mm CRUSHED GRANULAR BASE	250mm-19mm CRUSHED GRANULAR BASE*
MAJOR COLLECTOR 4 LANES	COMMERCIAL / INDUSTRIAL / AGRICULTURAL	50mm UPPER COURSE #1	100mm LOWER COURSE #1 (IN TWO LIFTS)	100mm-19mm CRUSHED GRANULAR BASE	300mm-19mm CRUSHED GRANULAR BASE*
	MULTI-FAMILY	50mm UPPER COURSE #1	75mm LOWER COURSE #1	100mm-19mm CRUSHED GRANULAR BASE	250mm-19mm CRUSHED GRANULAR BASE*
MINOR ARTERIAL 4 LANE	ARTERIAL & MRN	60mm SUPERPAVE 19NMS (MRN)/12.5NMS (ARTERIAL)	100mm LOWER COURSE #1 (IN TWO LIFTS)	100mm-19mm CRUSHED GRANULAR BASE	300mm-19mm CRUSHED GRANULAR BASE*
MAJOR ARTERIAL 4 LANE	ARTERIAL & MRN	60mm SUPERPAVE 19NMS (MRN)/12.5NMS (ARTERIAL)	100mm LOWER COURSE #1 (IN TWO LIFTS)	100mm-19mm CRUSHED GRANULAR BASE	300mm-19mm CRUSHED GRANULAR BASE*
MAJOR ARTERIAL 6 LANE	ARTERIAL & MRN	60mm SUPERPAVE 19NMS (MRN)/12.5NMS (ARTERIAL)	100mm LOWER COURSE #1 (IN TWO LIFTS)	100mm-19mm CRUSHED GRANULAR BASE	300mm-19mm CRUSHED GRANULAR BASE*
LANE	LANE	40mm UPPER COURSE #2	45mm LOWER COURSE #1	100mm-19mm CRUSHED GRANULAR BASE	250mm-19mm CRUSHED GRANULAR BASE*
PATHWAY	MUP	35mm UPPER COURSE #2	45mm LOWER COURSE #2	75mm-19mm CRUSHED GRANULAR BASE	250mm-19mm CRUSHED GRANULAR BASE*

NOTES:

1. HOT MIX ASPHALT CONCRETE ONLY.
2. MAXIMUM LIFT THICKNESS IS 75mm.
3. TEMPORARY RESTORATION AT UTILITY TRENCH DURING THE UTILITY INSTALL IS SUBJECT TO FULL DEPTH REMOVAL UNLESS THE LOWER COURSE WAS PLACED IN LIFT(S) AND LONG SECTION(S) GREATER THAN 100m, IN WHICH THE UPPER COURSE IS THEN ALLOWED FOR THE MILL AND INLAY DURING PERMANENT RESTORATION.
4. REFER TO CITY OF BURNABY PAVEMENT RESTORATION POLICY.

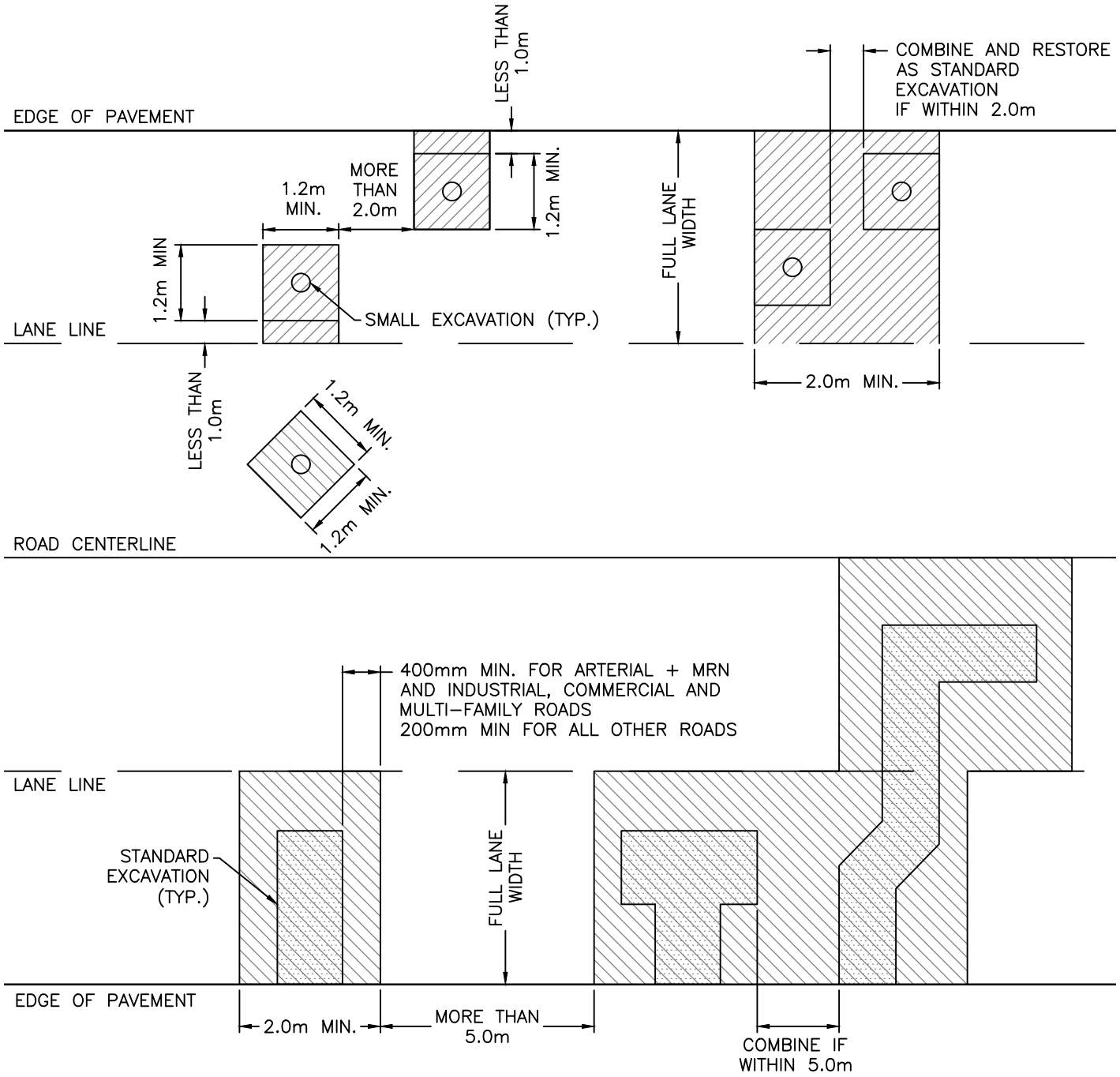
* NEW CONSTRUCTION/RECONSTRUCTION 75mm CRUSHED GRANULAR SUBBASE.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

PAVEMENT RESTORATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- R114
CHECKED BY:	KW	DATE:	JULY 2026	

2026



NOTES:

1. HOT MIX ASPHALT CONCRETE ONLY.
2. REFER TO CITY OF BURNABY PAVEMENT RESTORATION POLICY AND BBY–R114 FOR PAVEMENT RESTORATION DETAILS.
3. DIAMOND CUT IS ALSO PERMITTED FOR SMALL EXCAVATIONS NEAR THE CENTER OF A LANE.

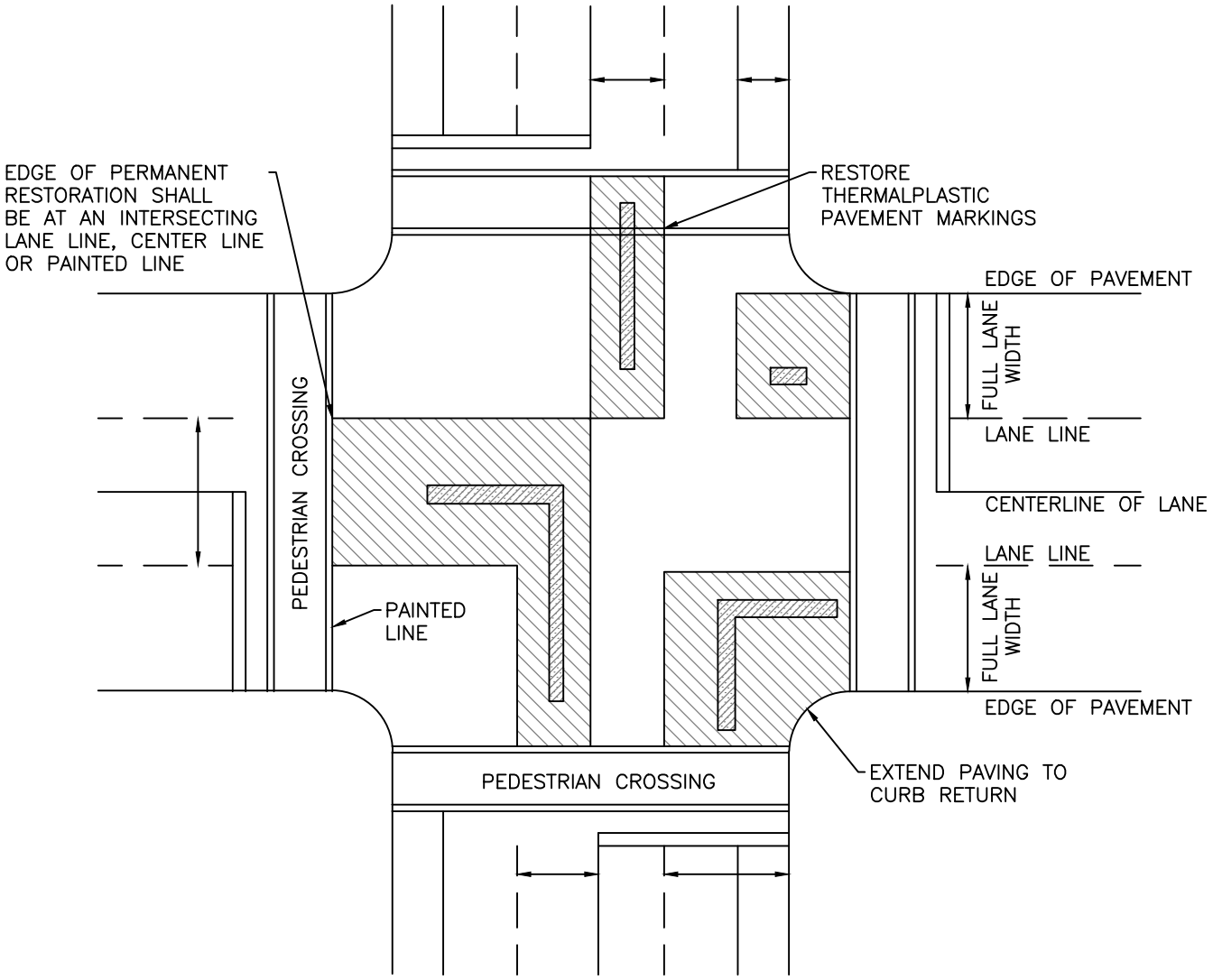
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

PERMANENT PAVEMENT RESTORATION AREAS

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- R115

2026



NOTES:

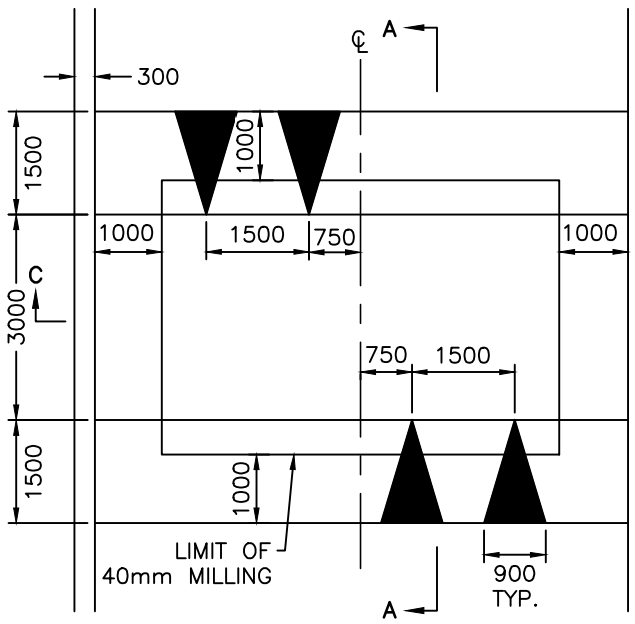
1. HOT MIX ASPHALT CONCRETE ONLY.
2. REFER TO CITY OF BURNABY PAVEMENT RESTORATION POLICY AND BBY–R114 FOR PERMANENT RESTORATION DETAILS.
3. PAVEMENT RESTORATION AREAS TO BE COMBINED AS DIRECTED BY CITY.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

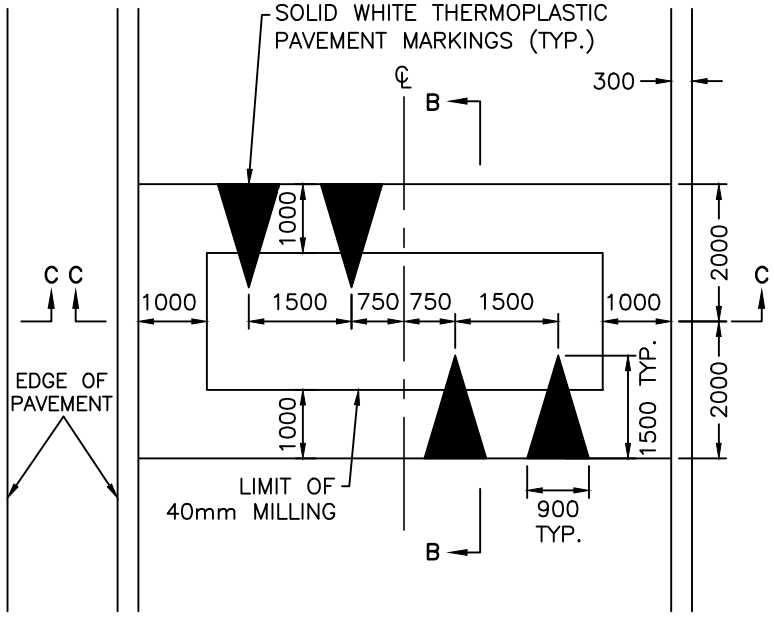
PERMANENT PAVEMENT RESTORATION AREAS AT AN INTERSECTION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- R116
CHECKED BY:	KW	DATE:	JULY 2026	

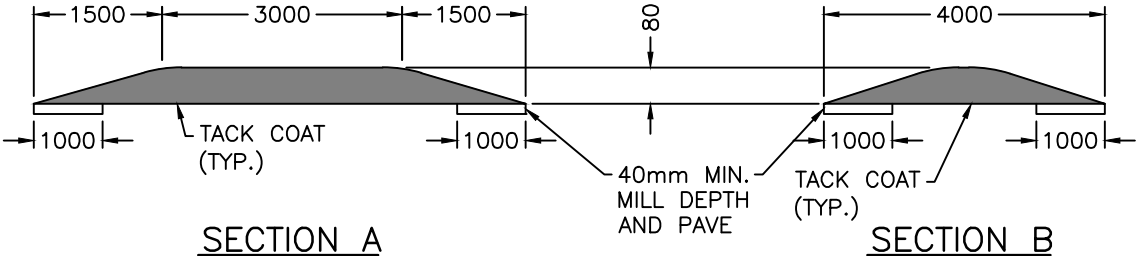
2026



SPEED TABLE

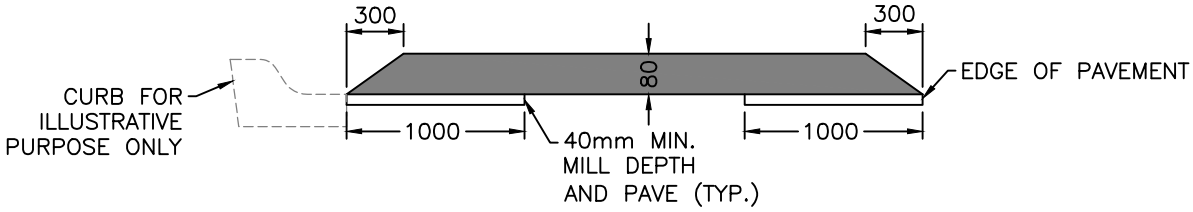


SPEED HUMP



SECTION A

SECTION B



SECTION C

SINUSOIDAL SPEED HUMP DEVELOPMENT

DISTANCE(m)	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.125	1.250	1.375	1.500	1.625	1.750	1.875	2.000
FINISHED HEIGHT(mm)	0	1	3	7	12	18	25	32	40	48	55	62	68	73	77	79	80

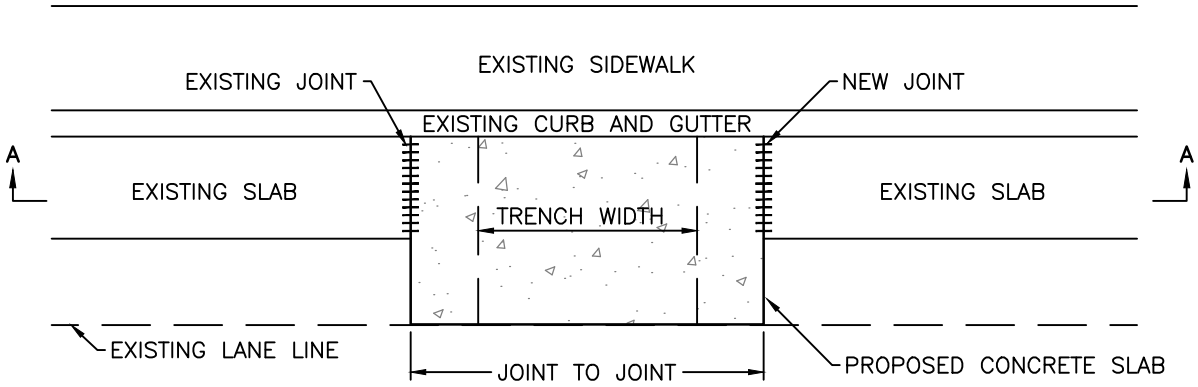
NOTES:
1. SINGLE ARROW PER DIRECTION ONLY FOR SPEED HUMPS IN LANES.
2. SPEED HUMP TABLE TO BE SURVEYED, TO ENSURE DEVELOPMENT.
3. ALL DIMINSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

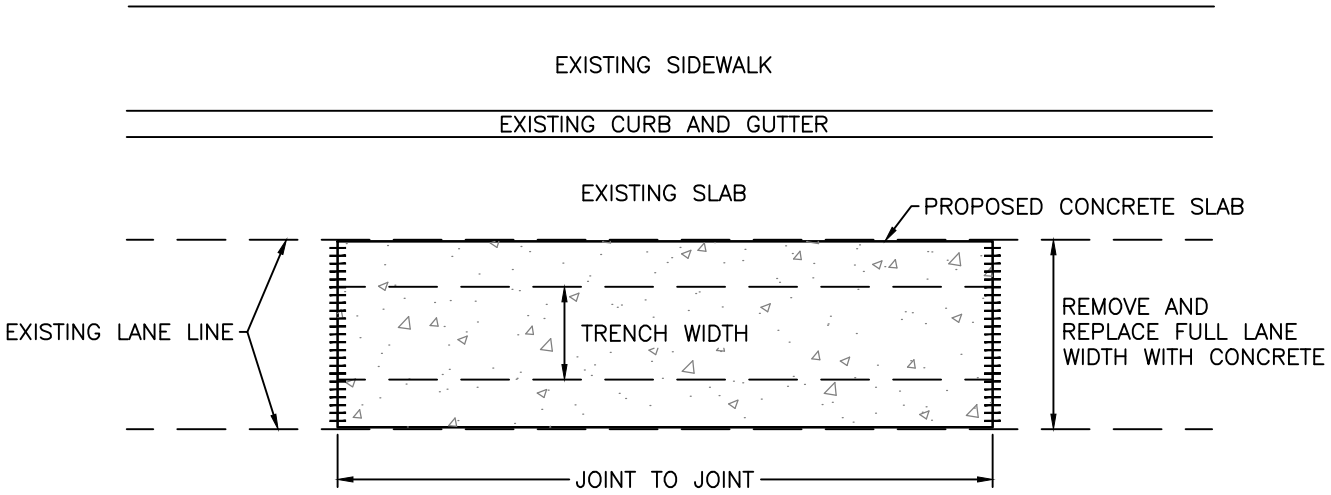
TRAFFIC CALMING, SPEED HUMP AND TABLE

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- R117
CHECKED BY:	KW	DATE:	JULY 2026	

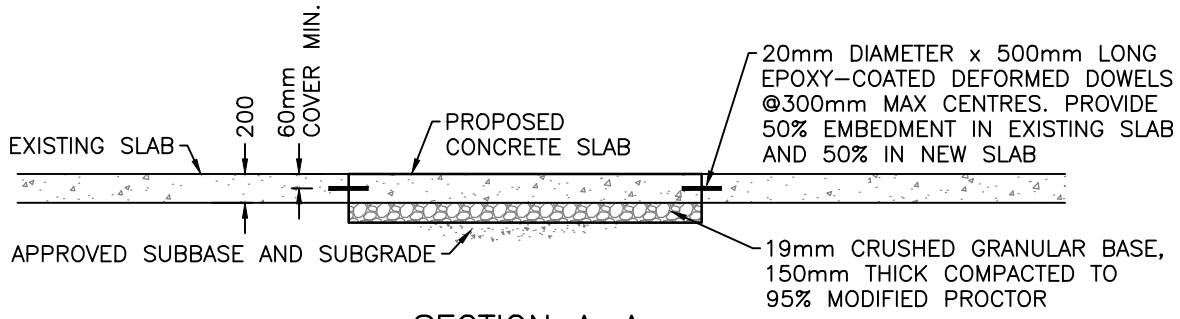
2026



CROSS CUT RESTORATION



LONGITUDINAL CUT RESTORATION



SECTION A–A

NOTES:

1. THIS DETAIL IS NOT APPLICABLE TO THE REPAIR OF CONCRETE BUS PADS, WHICH MUST BE REVIEWED AND DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH TRANSLINK STANDARDS.
2. THE CITY MAY PERMIT REPLACEMENT OF CONCRETE COMPOSITE STRUCTURE WITH ASPHALT PAVEMENT STRUCTURE FOR PATCHES LONGER THAN 10.0 M, SUBJECT TO APPROVAL ON A CASE–BY–CASE BASIS.
3. ROAD STRUCTURE BELOW THE ROAD BASE MUST BE APPROVED BY A PROFESSIONAL ENGINEER, WITH CONSIDERATION OF POTENTIAL UNDERMINING OR MOVEMENT OF TRENCH WALLS.
4. INSTALL CONTROL JOINTS AT 3M MAX SPACING.
5. PROVIDE OPTIONAL WIRE MESH OR REINFORCING BARS AS DIRECTED BY THE ENGINEER.
6. ALL DIMENSIONS ARE IN MILLIMITERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

ROADWAY CONCRETE SLAB TYPICAL RESTORATION

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- R118
CHECKED BY:	KW	DATE:	JULY 2026	

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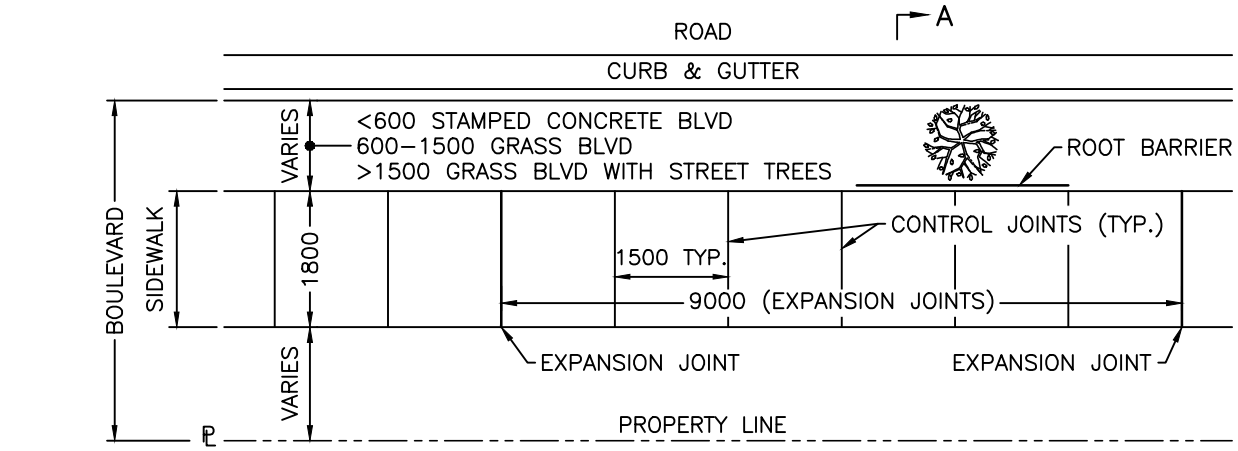
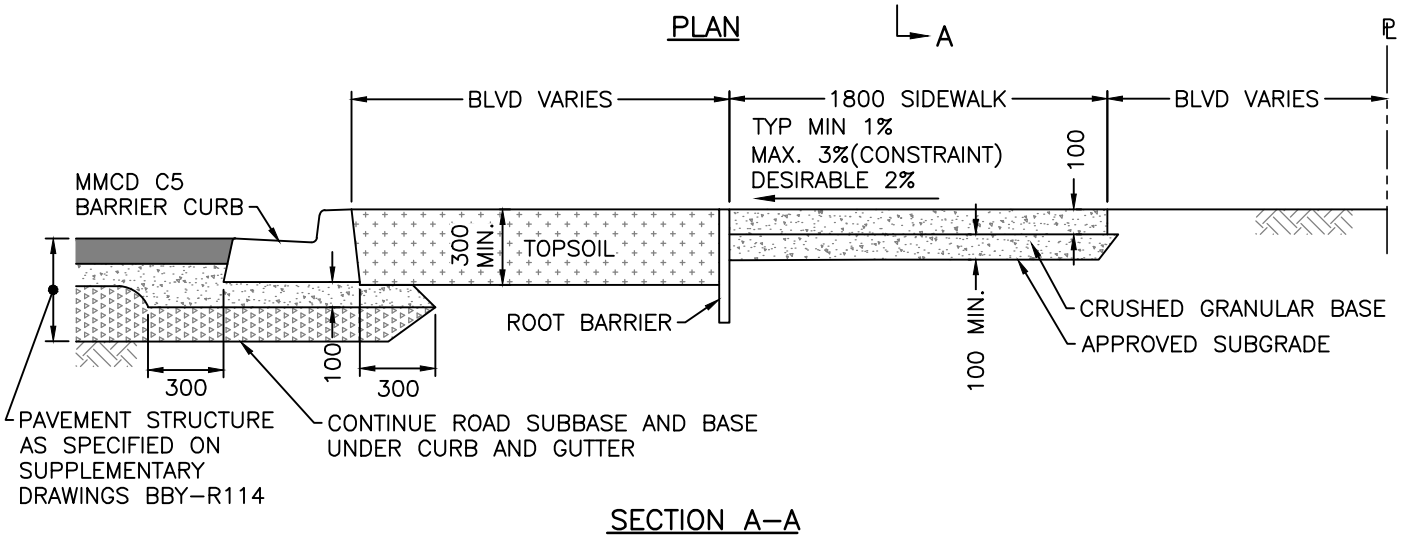
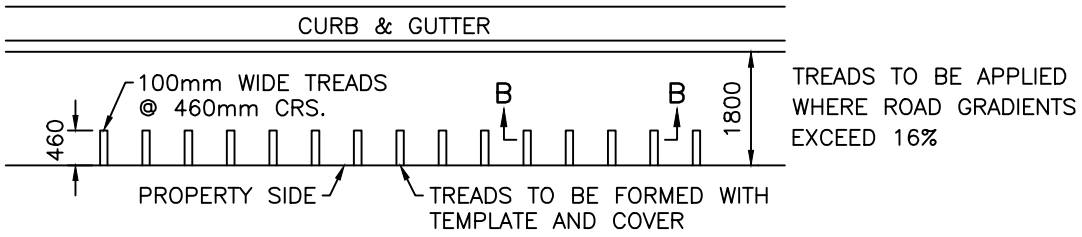


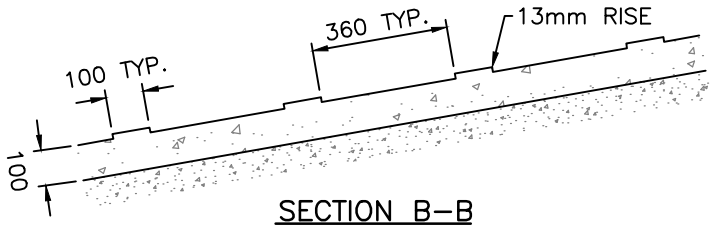
PLAN



SECTION A–A



SIDEWALK WITH TREAD



SECTION B–B

NOTE:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

SIDEWALK DETAIL

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C101

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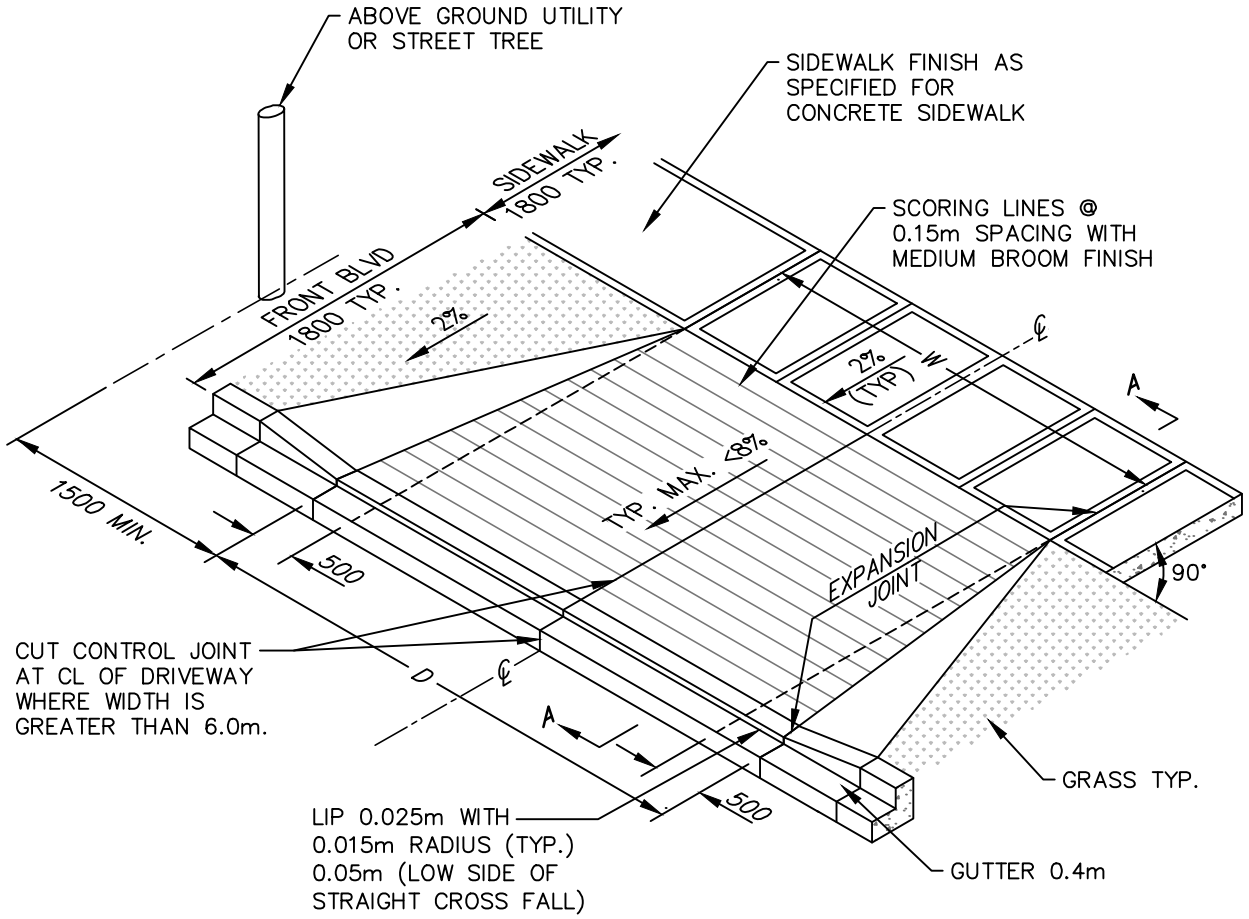
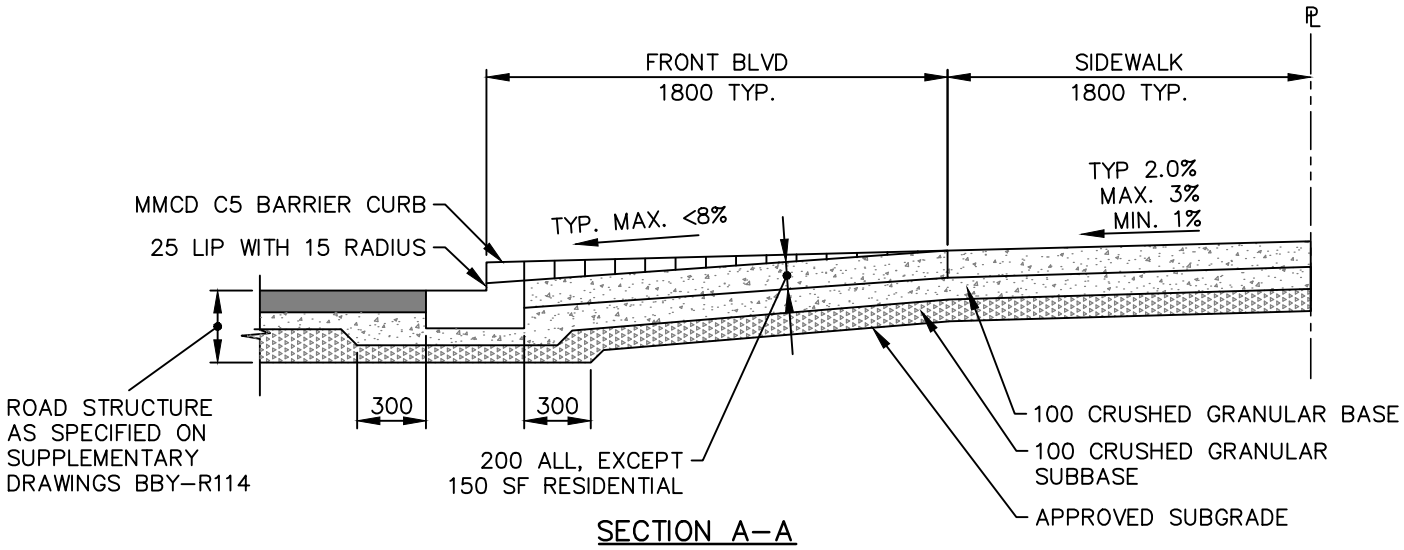




SECTION A–A

NOTES:
1. DRIVEWAY LOCATION AND WIDTH TO MEET DESIGN CRITERIA MANUAL REQUIREMENTS AND TAC GUIDELINES.
2. SCORE LINES ON DRIVEWAY APRON ONLY, NOT ON SIDEWALK OR CYCLING FACILITY.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

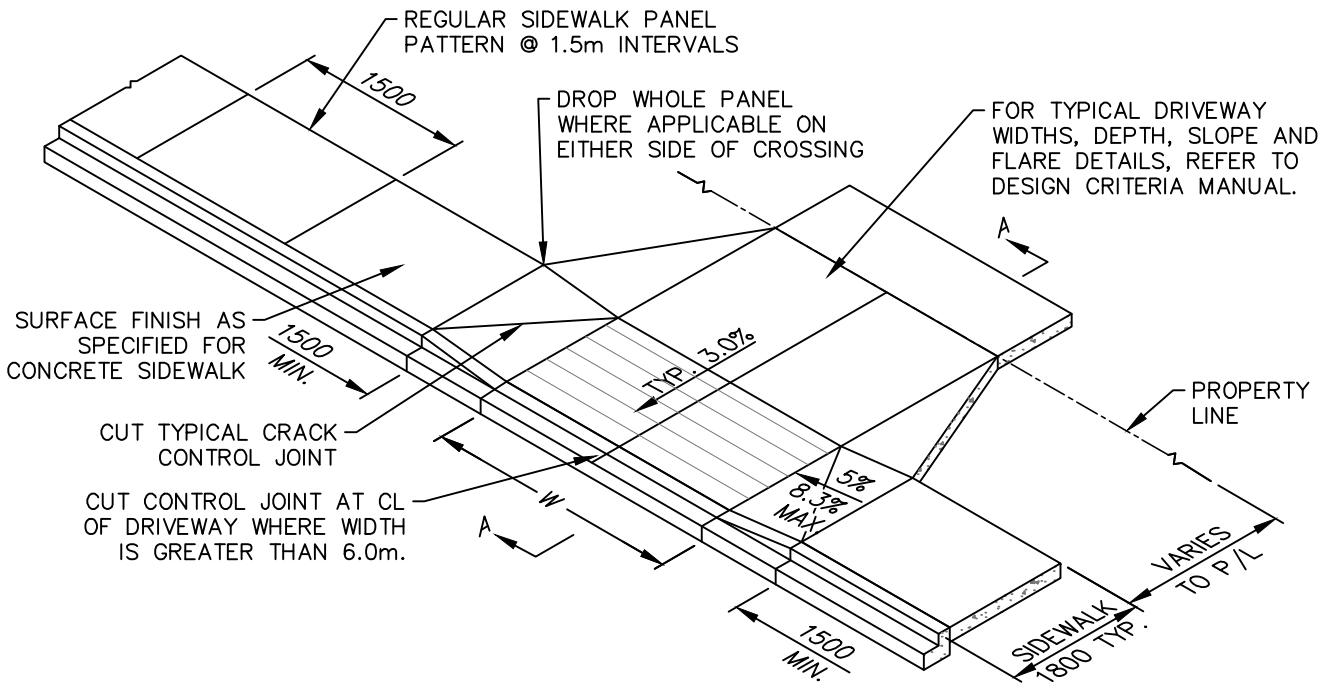
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

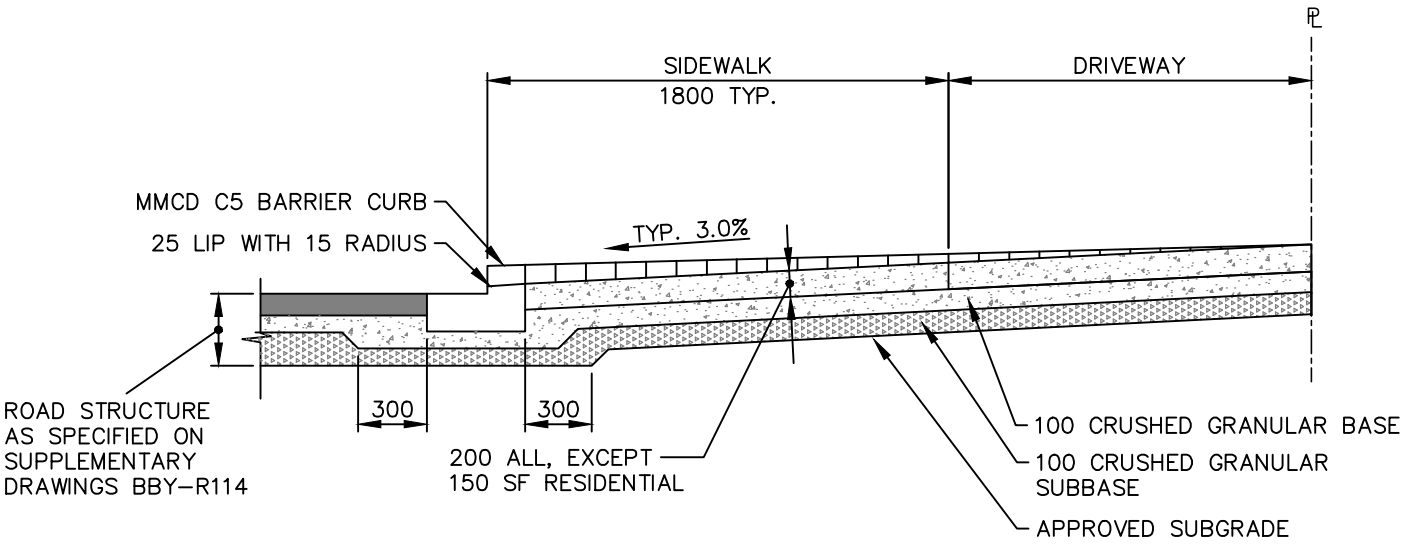
DRIVEWAY CROSSING (SEPARATED SIDEWALKS)

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C102A

2026





SECTION A–A

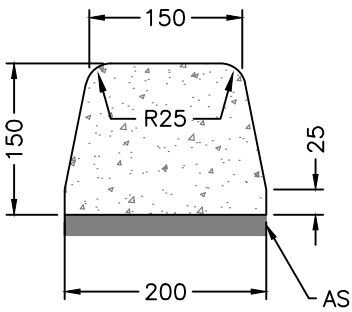
NOTES:
1. DRIVEWAY LOCATION AND WIDTH TO MEET DESIGN CRITERIA MANUAL REQUIREMENTS AND TAC GUIDELINES.
2. SCORE LINES ON DRIVEWAY APRON ONLY, NOT ON SIDEWALK OR CYCLING FACILITY.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

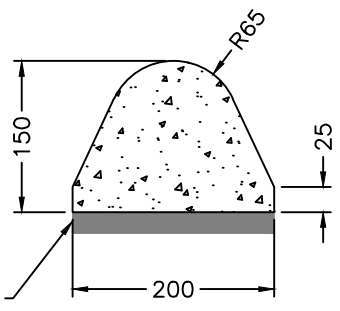
DRIVEWAY CROSSING (ABUTTING SIDEWALKS)

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C102B
CHECKED BY:	KW	DATE:	JULY 2026	

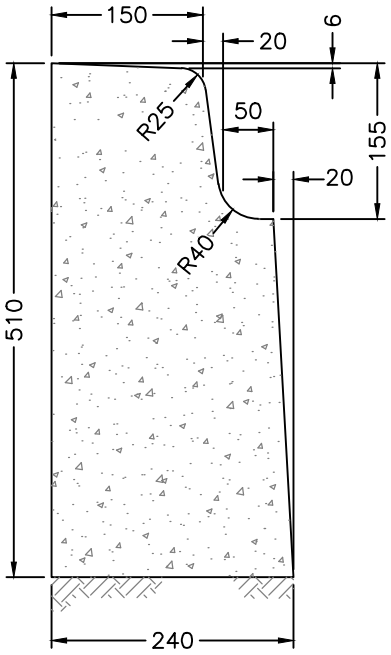
2026



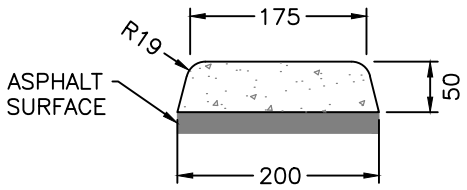
TYPE C
CONCRETE OR ASPHALT
AS SPECIFIED



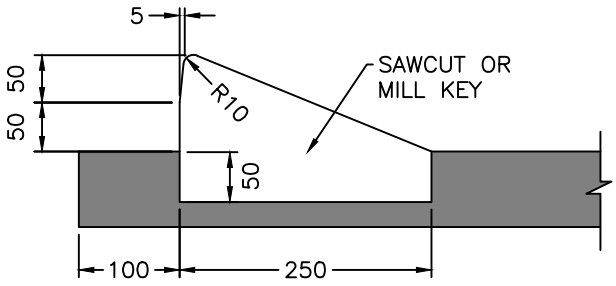
TYPE E
CONCRETE OR ASPHALT
AS SPECIFIED



TYPE D



TYPE F
ASPHALT



MEDIAN CURB
TEMPORARY WHEELCHAIR LETDOWN

NOTE:
1. COLOURED AS SPECIFIED ON CONTRACT DRAWING.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

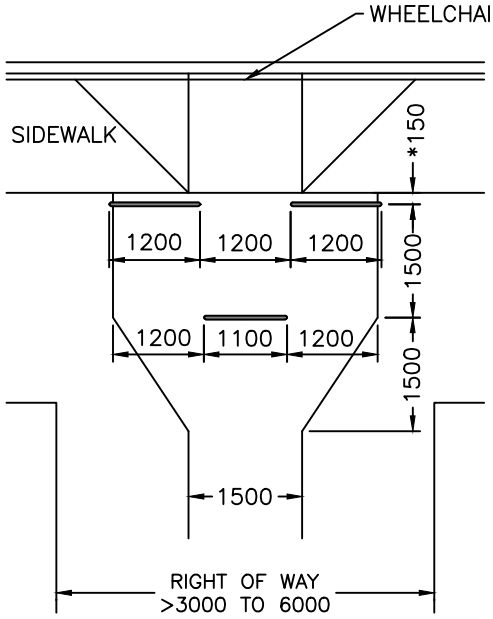
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CURB DETAILS

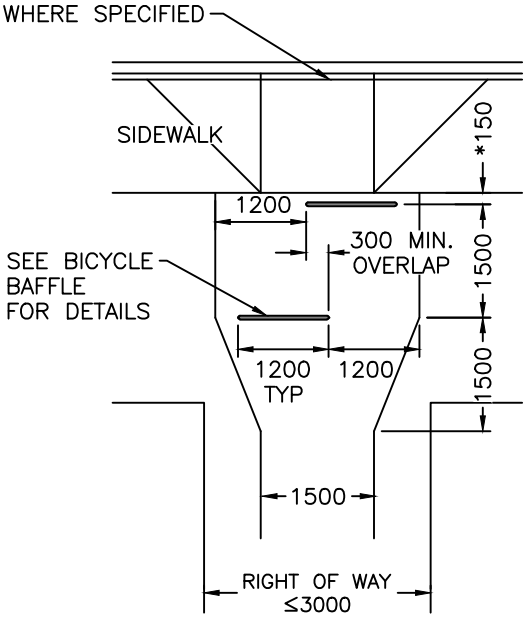
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C105

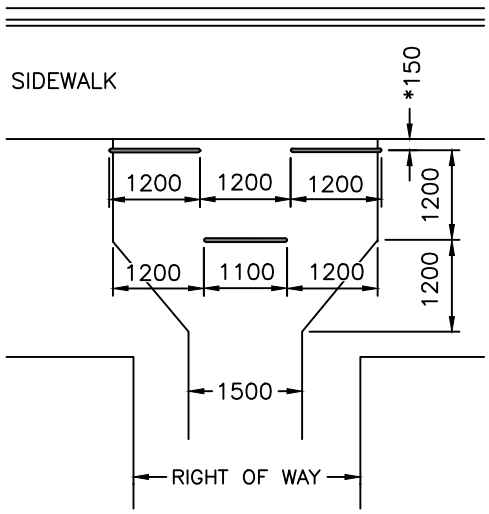
2026



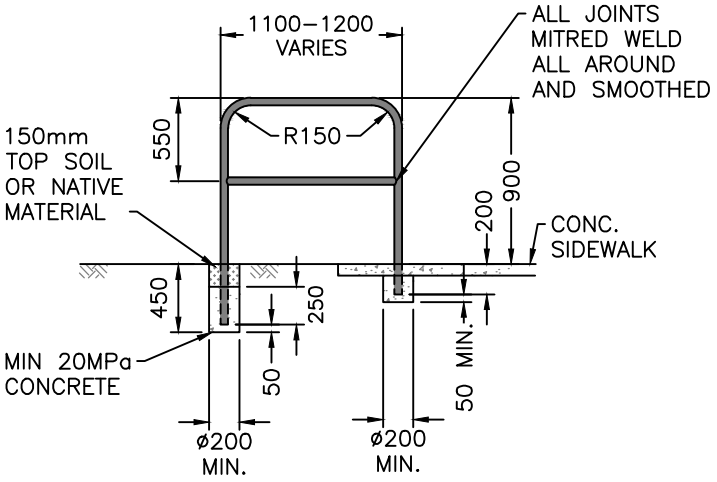
WALKWAY ON WIDE RIGHT OF WAY
NO STAIRS



WALKWAY ON NARROW RIGHT OF WAY
NO STAIRS



WALKWAY WITH STAIRS



BICYCLE BAFFLE

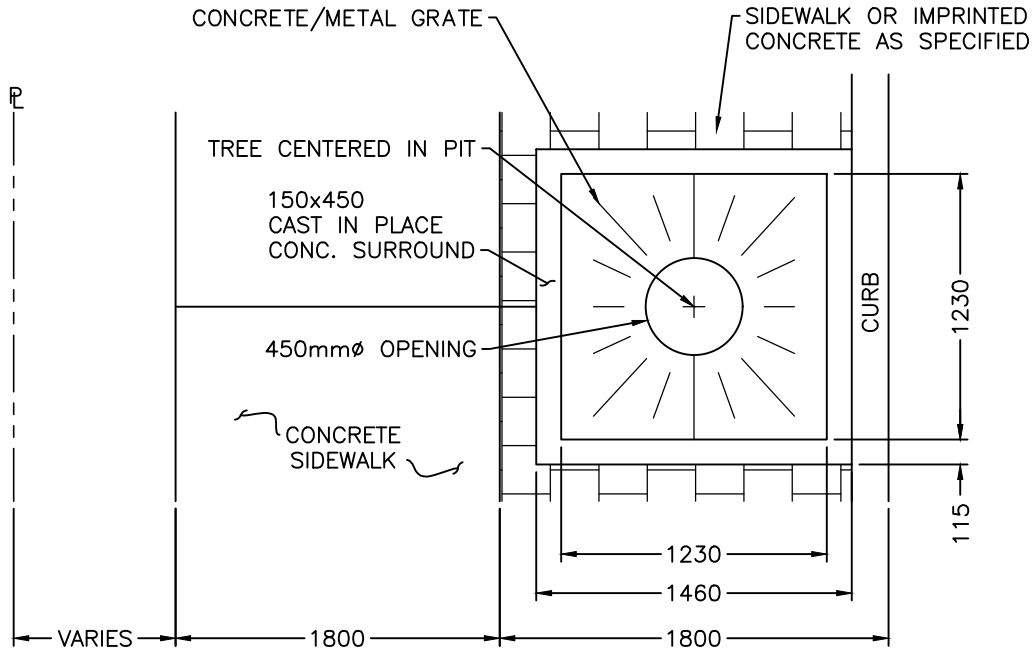
NOTES:
1. POSTS 50mmø SCHEDULE 40 HOT DIPPED GALVANIZED PIPE.
2. RAILS MIN 40mmø SCHEDULE 40 HOT DIPPED GALVANZED PIPE.
3. ALL POSTS SHALL BE INSTALLED PLUMB.
4. ALL RAILS SHALL BE INSTALLED PARALLEL TO THE WALKWAY.
5. FIELD WELDS SHALL BE PAINTED WITH 2 COATS OF "GALVACON" OR EQUAL.
6. *150mm SET BACK FROM BACK OF SEPARATED OR ABUTTING WALK, 1800mm FROM CURB FACE WITHOUT ADJOINING WALK.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

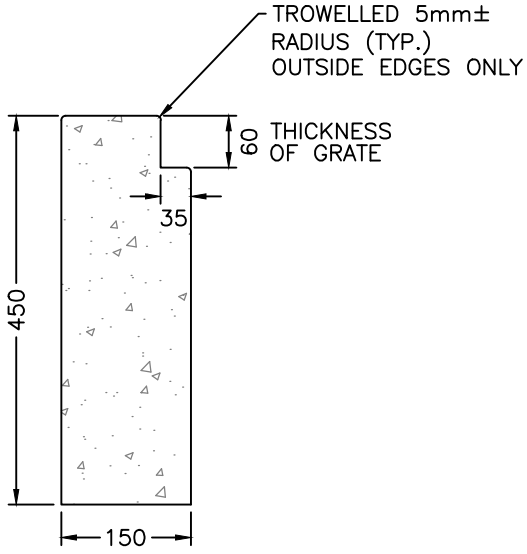
PIPE BARRIER FOR SIDEWALKS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C106
CHECKED BY:	KW	DATE:	JULY 2026	

2026



SIDEWALK & TREE SURROUND



DETAIL OF CONCRETE TREE GRATE SURROUND

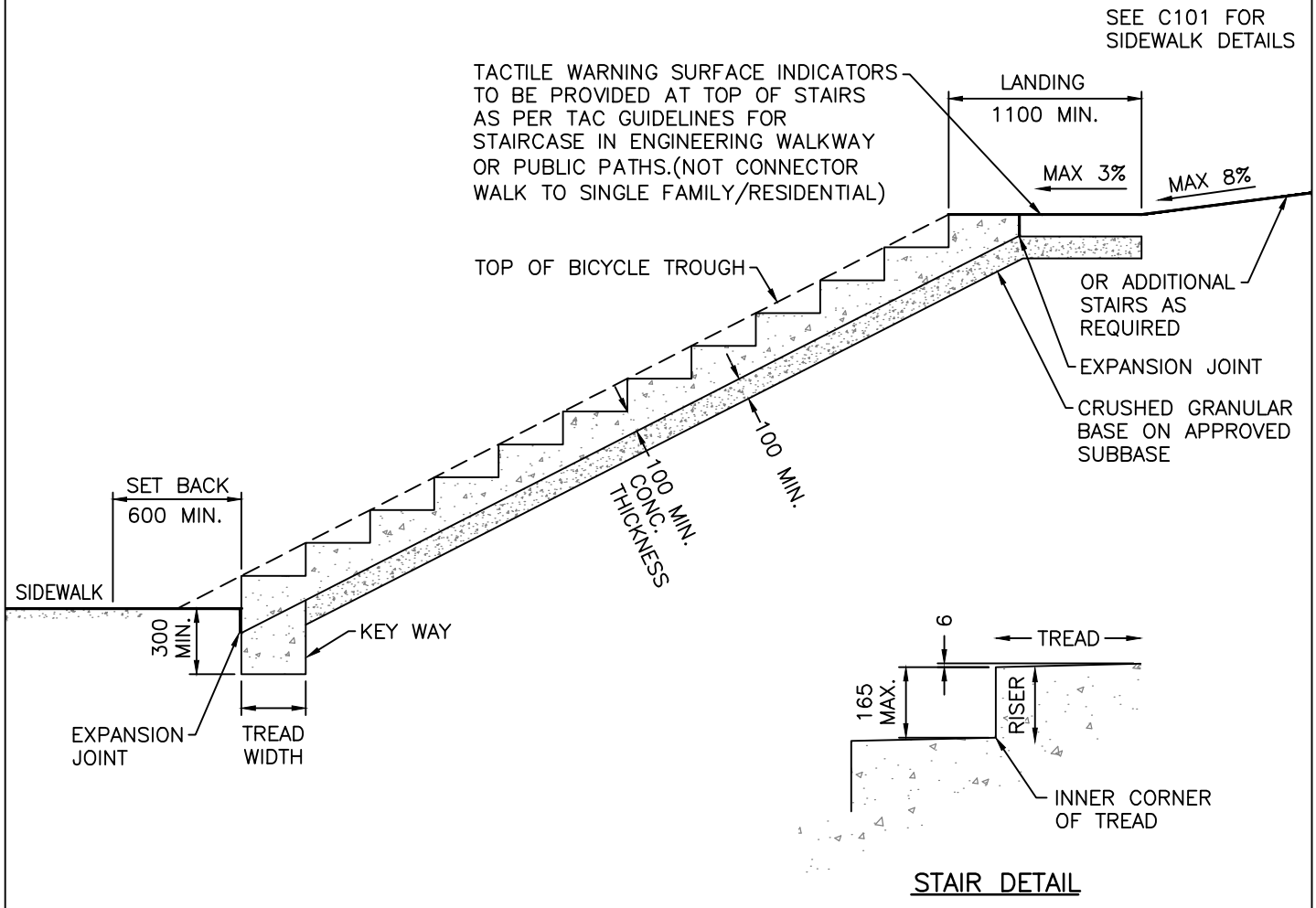
NOTES:
1. TREE PLANTING AS SPECIFIED BY BURNABY PARKS BOARD.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TREE SURROUND

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C107
CHECKED BY:	KW	DATE:	JULY 2026	

2026



STAIR DETAIL

NOTES:

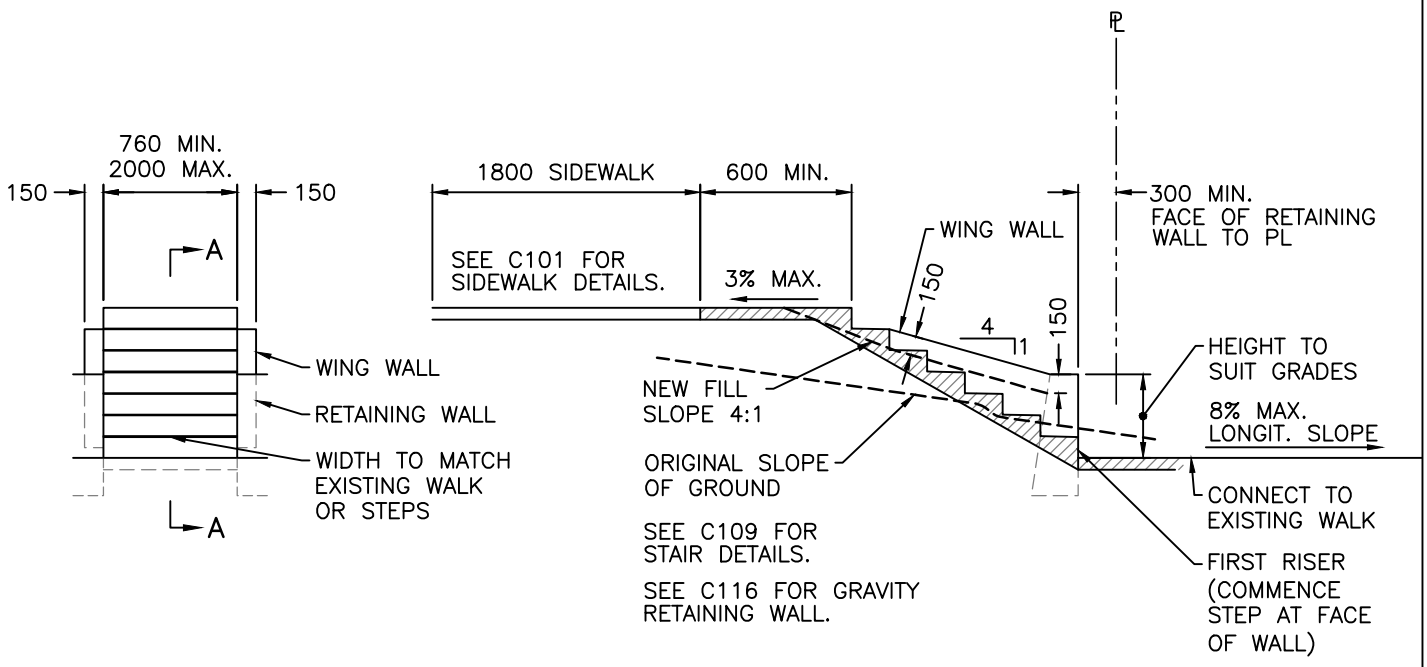
1. VARY THE NUMBER OF RISERS AS REQUIRED BY DIFFERENCE IN ELEVATION.
2. ALL STEPS TO BE IN ONE FLIGHT, TO A MAX. OF 12 RISERS IN ANY ONE FLIGHT OF STAIRS.
3. MIN. 1100mm LANDING REQUIRED BETWEEN ADJACENT FLIGHT OF STAIRS.
4. ALL STEPS IN EACH FLIGHT SHALL BE EQUAL, ADJACENT FLIGHTS IN A CONTINUOUS RUN SHALL BE THE SAME.
5. SUM OF TREAD PLUS RISER SHALL BE A MAX OF 470mm.
6. MIN. TREAD SIZE 300mm.
7. RAILING REQUIRED WHEN 3 OR MORE RISERS ARE INSTALLED, SEE C119 FOR RAILING DETAILS.
8. RAILING INSTALLED ON ONE SIDE ONLY, THE LOW OR CUT SIDE OF THE EMBANKMENT.
9. RAILING AND BICYCLE TROUGH INSTALLED IN ADDITION TO THE SPECIFIED WALK WIDTH.
10. KEY WAY REQUIRED WHEN 6 OR MORE RISERS ARE INSTALLED.
11. INCREASE STAIR THICKNESS TO MINIMUM 150mm WHEN 6 OR MORE RISERS ARE INSTALLED. REINFORCE STAIRS WITH 15M BARS OR 150x150x3 WWF INCLUDING MINIMUM 200mm HOOK INTO KEY WAY AS SPECIFIED.
12. WINGWALLS REQUIRED WHERE 4:1 CUT OR FILL SLOPE RISES ABOVE INNER CORNER OF TREAD. SEE C110, C111, C112, C113, C114, & C115.
13. PIPE BARRIER REQUIRED AT TOP END OF FIRST FLIGHT OF STAIRS. SEE C106 FOR DETAILS.
14. SEE C106 FOR WALKWAY LANDING REQUIREMENT ADJACENT ROADWAY.
15. MIN. 32MPa CONCRETE.
16. INSTALL 0.2m WIDE BICYCLE TROUGH BESIDE STAIR TREAD WHEN SPECIFIED. BICYCLE TROUGH TO BE ON OPPOSITE SIDE FROM THE RAILING. TOP OF TROUGH TO MATCH TOP OF TREAD.
17. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STAIR DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C109
CHECKED BY:	KW	DATE:	JULY 2026	

2026



FRONT ELEVATION

SECTION A–A

NOTES:
1. VARY THE NUMBER OF RISERS AS REQUIRED BY DIFFERENCE IN ELEVATIONS.
2. ALL STEPS TO BE IN ONE FLIGHT.
3. FIRST RISER COMMENCES AT FACE OF RETAINING WALL.
4. WING WALLS ARE REQUIRED WHERE 4:1 CUT OR FILL SLOPE RISES ABOVE INNER CORNER OF TREAD.
5. WHERE HEIGHT OF WING WALL EXCEED 600mm, USE REINFORCED WALL AS SPECIFIED.
6. MINIMUM 1100mm LANDING AREA BETWEEN STAIRS.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

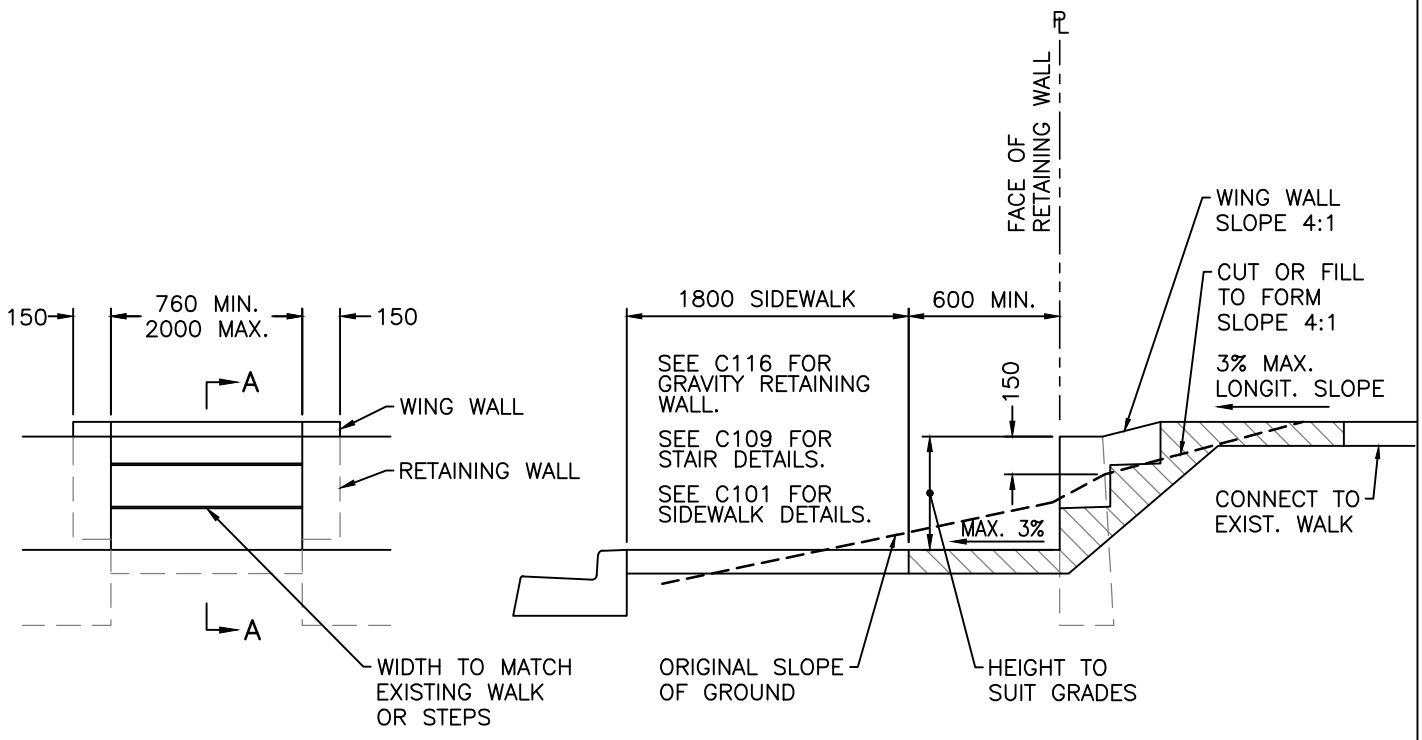
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STANDARD ARRANGEMENT OF CONNECTOR WALKS AND STEPS TO PROPERTIES BELOW STREET LEVEL WHEN RETAINING WALL IS REQUIRED

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C110

2026



FRONT ELEVATION

SECTION A–A

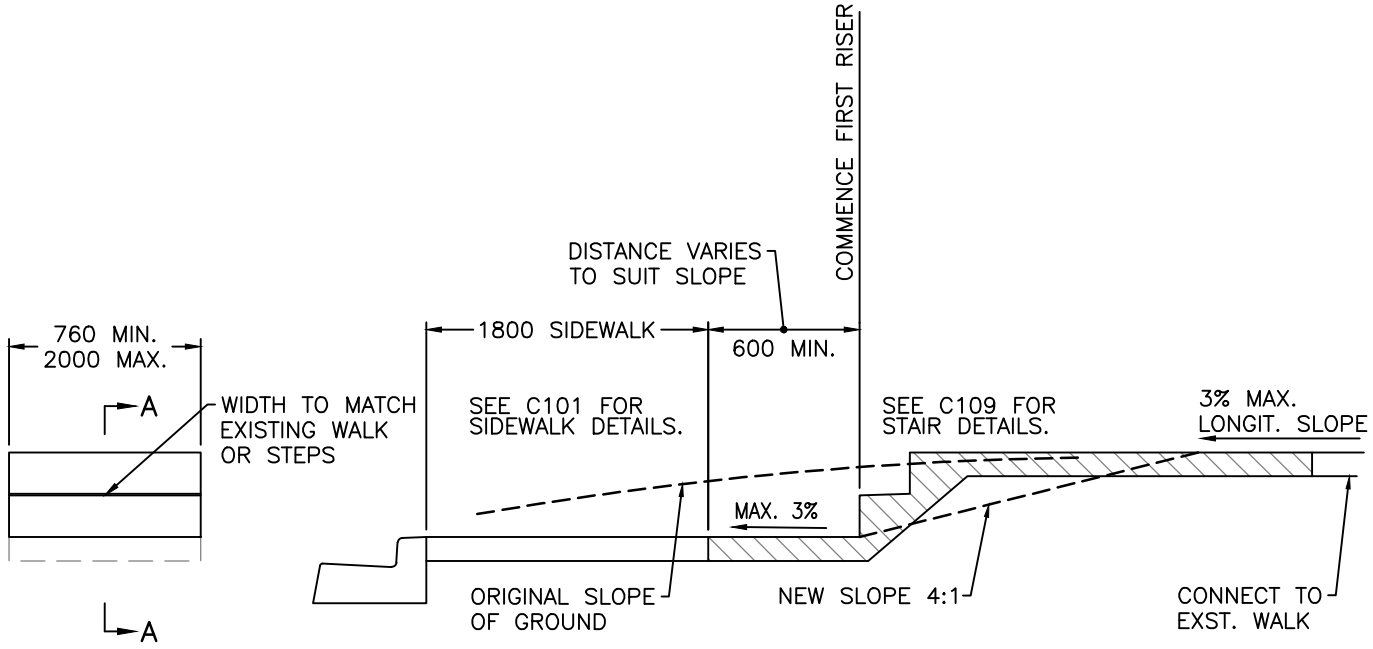
NOTES:
1. VARY THE NUMBER OF RISERS AS REQUIRED BY DIFFERENCE IN ELEVATIONS.
2. ALL STEPS TO BE IN ONE FLIGHT.
3. FIRST RISER COMMENCES AT FACE OF RETAINING WALL.
4. WING WALLS ARE REQUIRED WHERE 4:1 CUT OR FILL SLOPE RISES ABOVE INNER CORNER OF TREAD.
5. WHERE HEIGHT OF WING WALL EXCEED 600mm USE REINFORCED WALL AS SPECIFIED.
6. MINIMUM 1100mm LANDING AREA BETWEEN STAIRS.
7. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STANDARD ARRANGEMENT OF CONNECTOR WALKS AND STEPS TO PROPERTIES ABOVE STREET LEVEL WHEN RETAINING WALL IS REQUIRED

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C111
CHECKED BY:	KW	DATE:	JULY 2026	

2026



FRONT ELEVATION

SECTION A–A

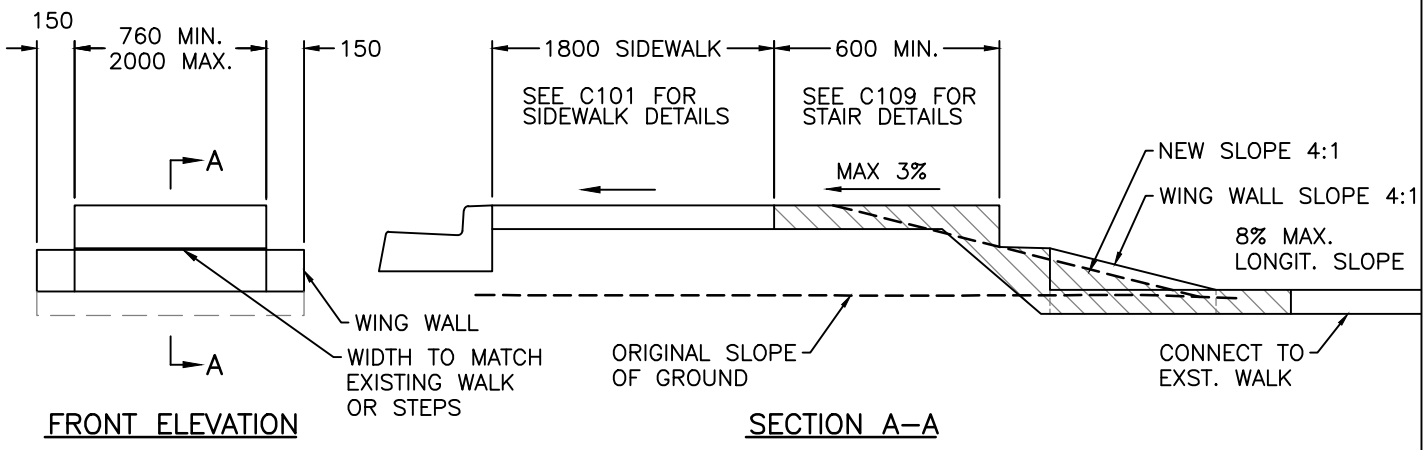
NOTES:
1. VARY THE NUMBER OF RISERS AS REQUIRED BY DIFFERENCE IN ELEVATIONS.
2. WING WALLS ARE REQUIRED WHERE 4:1 CUT OR FILL SLOPE RISES ABOVE INNER CORNER OF TREAD.
3. ALL STEPS TO BE IN ONE FLIGHT.
4. MINIMUM 1100mm LANDING AREA BETWEEN STAIRS.
5. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STANDARD ARRANGEMENT OF CONNECTOR WALKS AND STEPS TO PROPERTIES ABOVE STREET LEVEL WHEN RETAINING WALL IS NOT REQUIRED

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C112
CHECKED BY:	KW	DATE:	JULY 2026	

2026



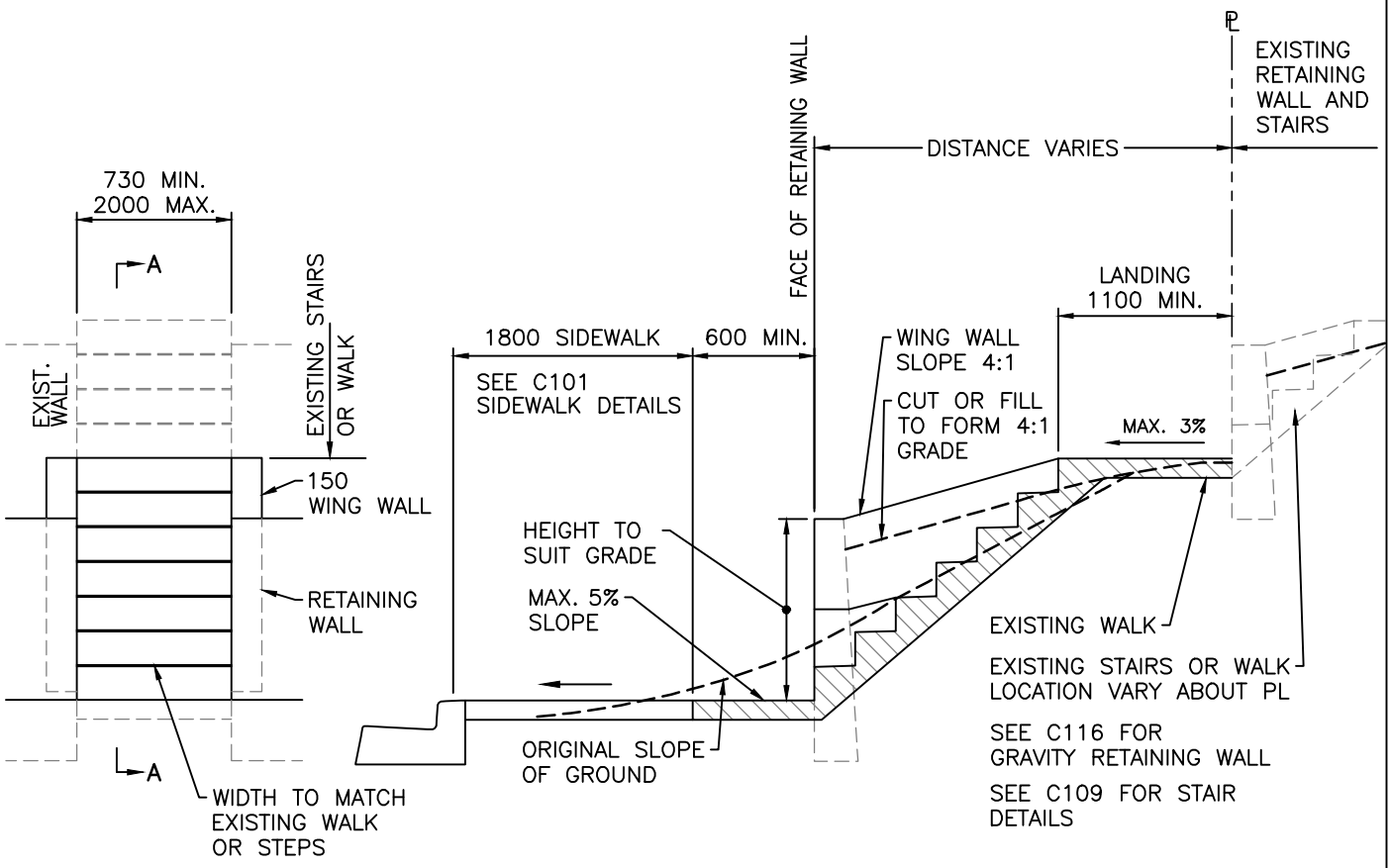
NOTES:
1. VARY THE NUMBER OF RISERS AS REQUIRED BY THE DIFFERENCE IN ELEVATIONS.
2. WING WALLS ARE REQUIRED WHERE 4:1 CUT OR FILL SLOPE RISES ABOVE INNER CORNER OF TREAD.
3. ALL STEPS TO BE IN ONE FLIGHT.
4. MINIMUM 1100mm LANDING AREA BETWEEN STAIRS.
5. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STANDARD ARRANGEMENT OF CONNECTOR WALKS AND STEPS TO PROPERTIES BELOW STREET LEVEL WHEN RETAINING WALL IS NOT REQUIRED

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C113
CHECKED BY:	KW	DATE:	JULY 2026	

2026



DO NOT DISTURB OR UNDERMINE EXISTING WALL

NOTES:
1. VARY THE NUMBER OF RISERS AS REQUIRED BY THE DIFFERENCE IN ELEVATIONS.
2. ALL STEPS TO BE IN ONE FLIGHT.
3. FIRST RISER BEGINS AT FACE OF RETAINING WALL.
4. WING WALLS ARE REQUIRED WHERE 4:1 CUT OR FILL SLOPE RISES ABOVE INNER CORNER OF TREAD.
5. WHERE HEIGHT OF WING WALLS EXCEED 600mm, USE REINFORCED WALL AS SPECIFIED.
6. MINIMUM 1100mm LANDING AREA BETWEEN STAIRS.
7. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

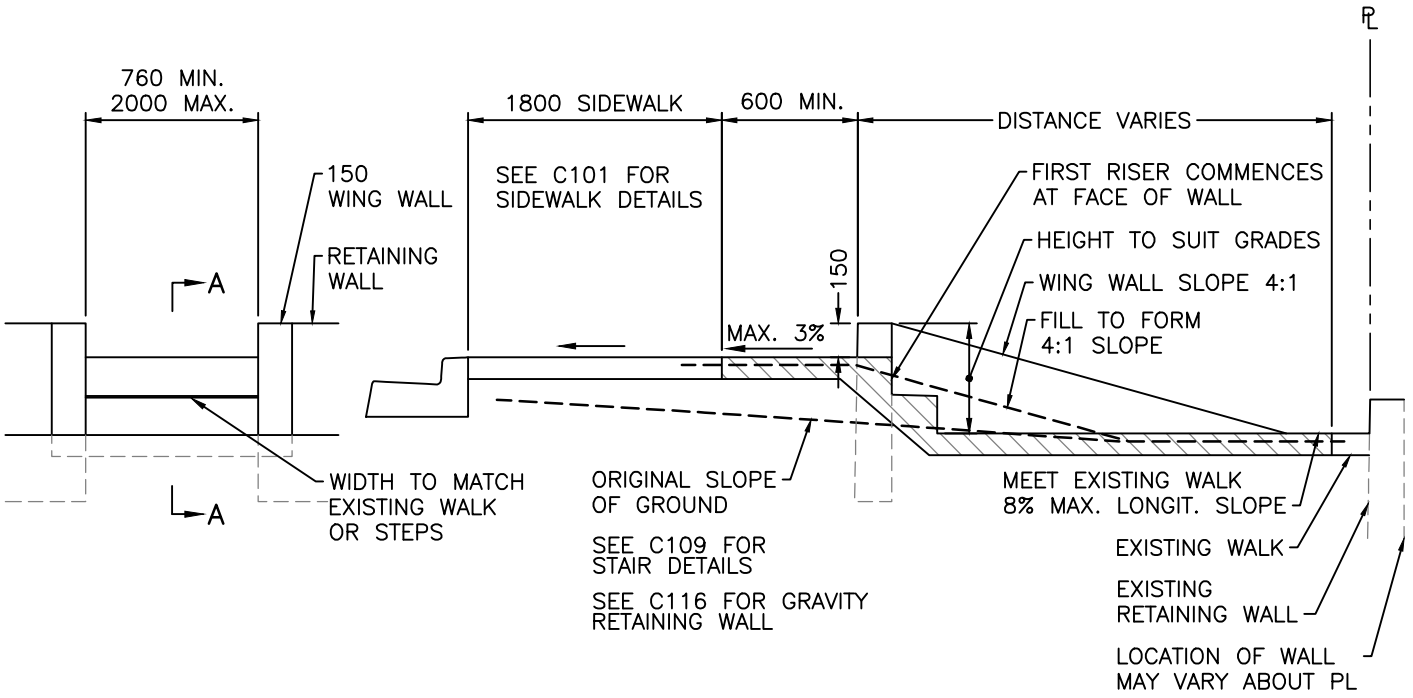
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STANDARD ARRANGEMENT OF CONNECTOR WALKS AND STEPS TO PROPERTIES ABOVE STREET LEVEL WHERE RETAINING WALL IS REQUIRED AND WALL EXISTS AT P.L.

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C114

2026



FRONT ELEVATION

SECTION A–A

NOTES:
1. VARY THE NUMBER OF RISERS AS REQUIRED BY DIFFERENCE IN ELEVATIONS.
2. ALL STEPS TO BE IN ONE FLIGHT.
3. COMMENCE TOP RISER AT FACE OF RETAINING WALL.
4. WING WALLS ARE REQUIRED WHERE 4:1 CUT OR FILL SLOPE RISES ABOVE INNER CORNER OF TREAD.
5. MINIMUM 1100mm LANDING AREA BETWEEN STAIRS.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

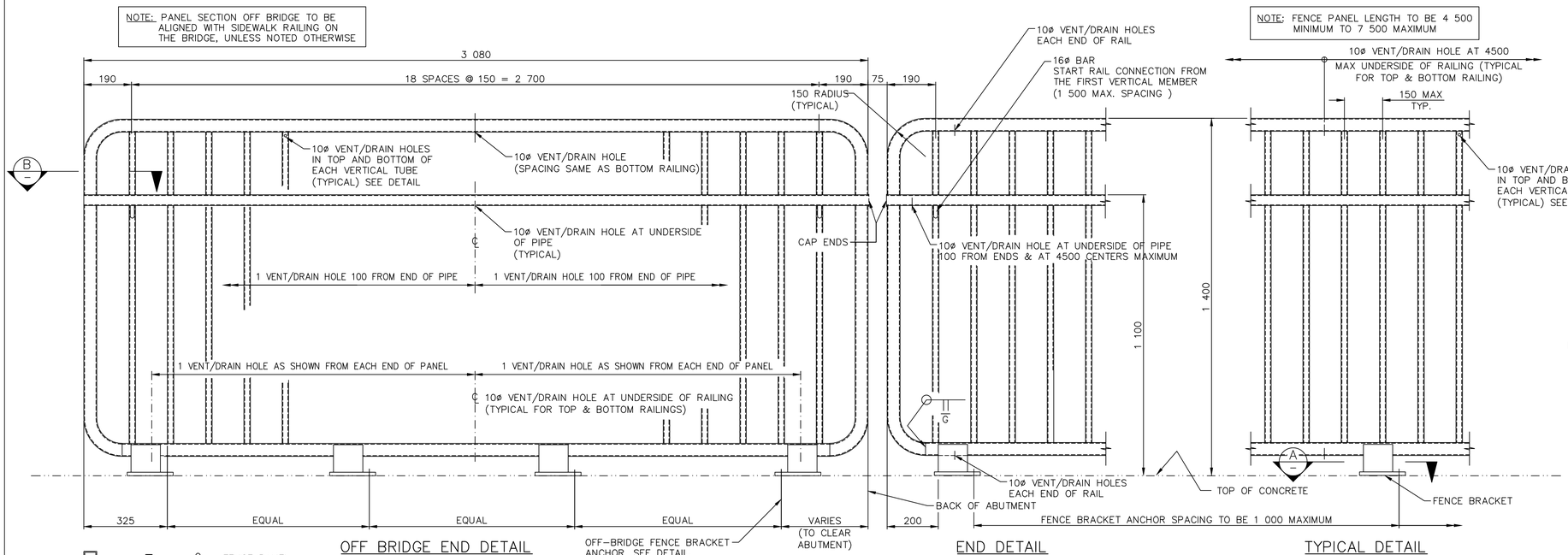
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

STANDARD ARRANGEMENT OF CONNECTOR WALKS AND STEPS TO PROPERTIES BELOW STREET LEVEL WHERE RETAINING WALL IS REQUIRED AND WALL EXISTS AT P.L.

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C115
CHECKED BY:	KW	DATE:	JULY 2026	

2026

NOTE: PANEL SECTION OFF BRIDGE TO BE ALIGNED WITH SIDEWALK RAILING ON THE BRIDGE, UNLESS NOTED OTHERWISE

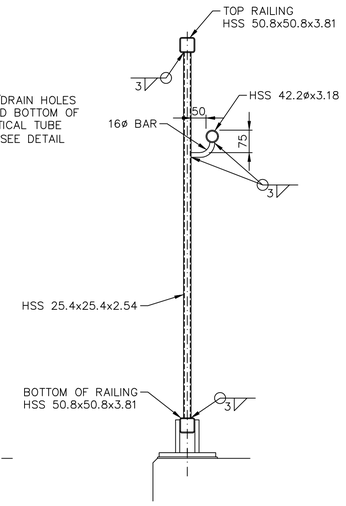


OFF BRIDGE END DETAIL

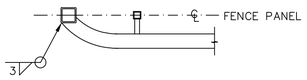
END DETAIL

TYPICAL DETAIL

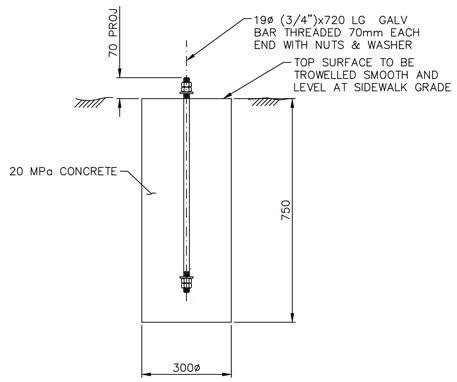
NOTE: FENCE PANEL LENGTH TO BE 4 500 MINIMUM TO 7 500 MAXIMUM



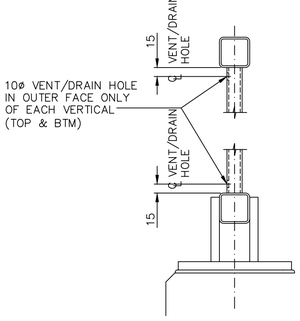
TYPICAL SECTION



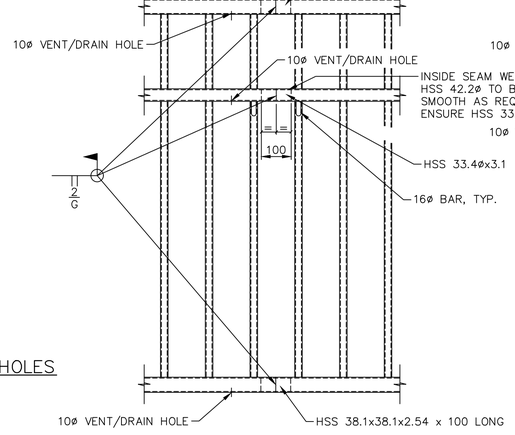
SECTION B
SCALE 1:10



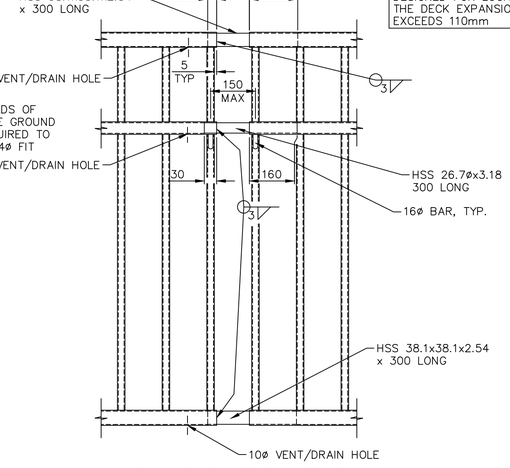
OFF-BRIDGE FENCE BRACKET ANCHOR DETAIL



DETAIL AT VENT/DRAIN HOLES IN VERTICALS
SCALE 1:5



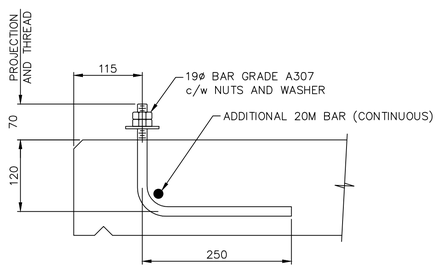
TYPICAL RAIL SPLICE



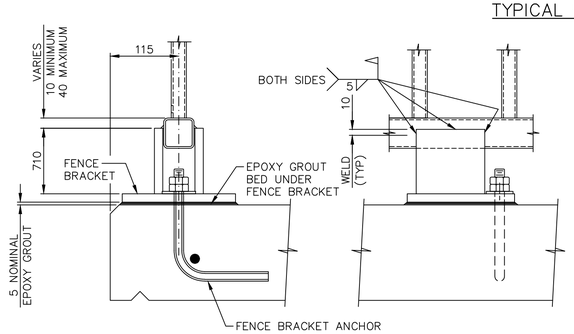
RAIL EXPANSION JOINT

NOTE:
RAILING EXPANSION JOINT TO BE LOCATED AT DECK JOINTS AND AT 30m MAXIMUM SPACING WHERE THE SPAN BETWEEN DECK JOINTS IS:
<30m, NO ADDITIONAL EXPANSION JOINTS
<60m, ADDITIONAL EXPANSION JOINT AT MID SPAN

NOTE:
AN ALTERNATE DETAIL MUST BE DESIGNED FOR LOCATIONS WHERE THE DECK EXPANSION JOINT GAP EXCEEDS 110mm



FENCE BRACKET ANCHOR
SCALE 1:5

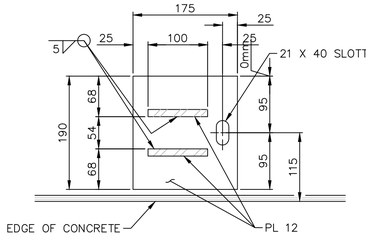


END VIEW SIDE VIEW

TYPCIAL DETAIL AT FENCE BRACKET
SCALE 1:5

NOTES:

1. FABRICATION TO BE IN ACCORDANCE WITH MOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 422, MISCELLANEOUS STEELWORK'
2. STEEL SHALL CONFORM TO:
   – ALL HSS TUBING TO BE CAN/CSA G40 21, GRADE 350W OR ASTM A500 GRADE
   – C ALL OTHER STEEL TO BE CAN/CSA G40 21, GRADE 300W
3. FENCE SECTIONS, BRACKETS AND ANCHORS TO BE GALVANIZED AFTER FABRICATION
4. GALVANIZING SHALL CONFORM TO CAN/CSA G164M
5. FIELD CONNECTIONS TO BE WELDED
6. RAIL ELEMENTS TO BE USED IN CURVES HAVING A RADIUS OF 300m OR LESS SHALL BE SHOP-FORMED TO THE REQUIRED CURVATURE
7. FENCE BRACKETS ARE TO BE INSTALLED ON A 5 mm NOMINAL THICK THIXITROPIC EPOXY LEVELLING COURSE TO ENSURE A COMPLETE BEARING SURFACE
8. FOR FENCES ON PEDESTRIAN OVERPASS RAMPS, THE ENDS OF PANELS AND VERTICAL TUBES SHALL BE PLUMB
9. ALL DIMENSIONS ARE IN MM.

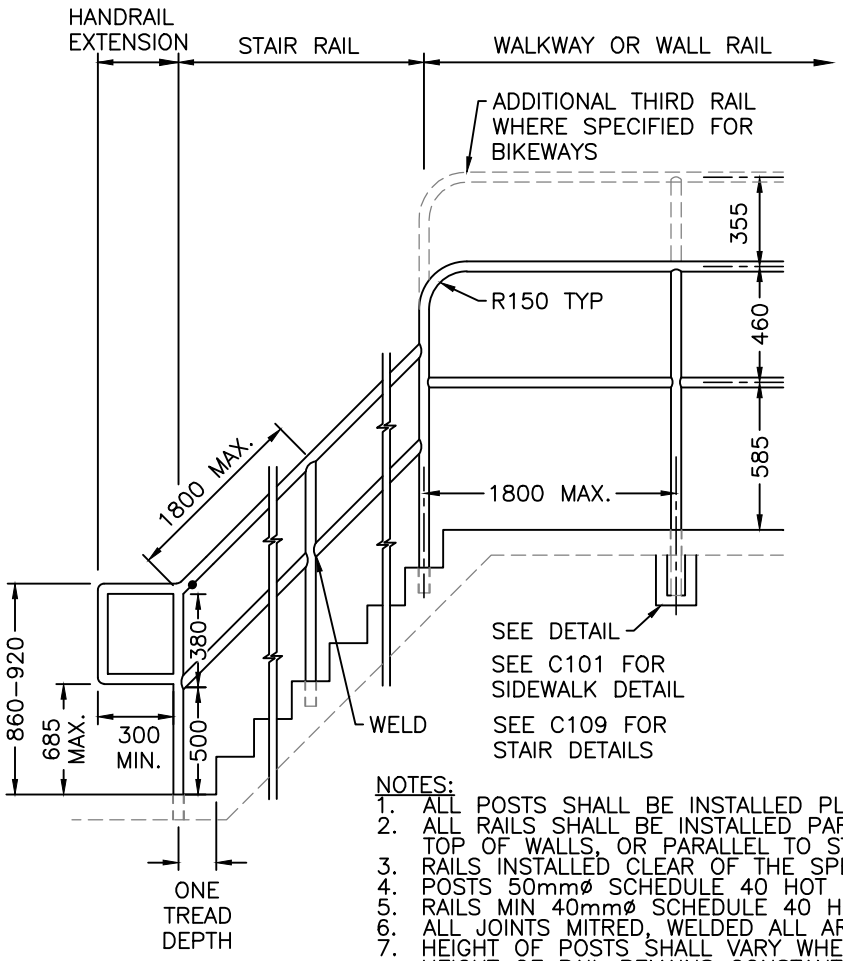


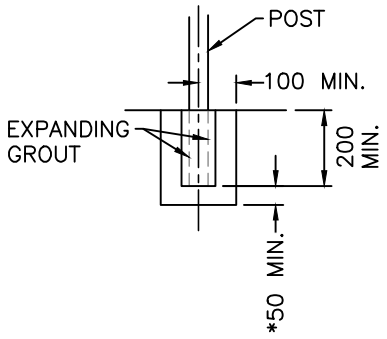
SECTION A
SCALE 1:5

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

BICYCLE GUARD RAIL

DRAWN BY:		SCALE:	N.T.S.	BBY- C117
CHECKED BY:	KW	DATE:	JULY 2026	





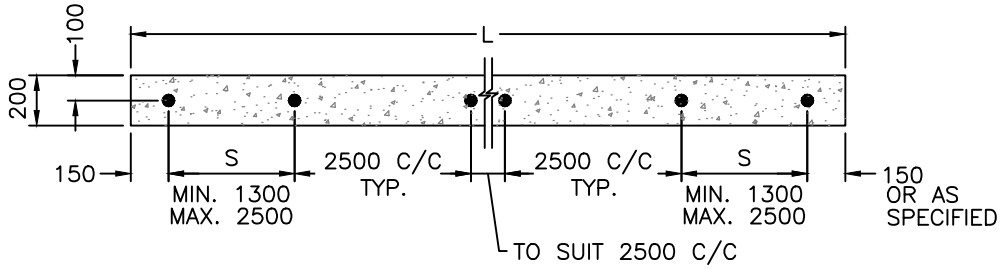
400mm MIN. IMBEDMENT WHERE THIRD RAIL SPECIFIED

* MIN. 50mm CONCRETE BELOW BOTTOM OF RAIL INSERT

DETAIL

NOTES:
1. ALL POSTS SHALL BE INSTALLED PLUMB.
2. ALL RAILS SHALL BE INSTALLED PARALLEL TO THE WALKWAY SURFACE AND TO TOP OF WALLS, OR PARALLEL TO STAIR INCLINE.
3. RAILS INSTALLED CLEAR OF THE SPECIFIED WALK WIDTH.
4. POSTS 50mmø SCHEDULE 40 HOT DIPPED GALVANIZED PIPE.
5. RAILS MIN 40mmø SCHEDULE 40 HOT DIPPED GALVANIZED PIPE.
6. ALL JOINTS MITRED, WELDED ALL AROUND AND SMOOTHED.
7. HEIGHT OF POSTS SHALL VARY WHERE RAIL IS INSTALLED IN STAIR WING WALLS. HEIGHT OF RAIL REMAINS CONSTANT TO THE STAIRS.
8. FIELD WELDS SHALL BE PAINTED WITH 2 COATS OF "GALVACON" OR EQUAL.
9. FIRST AND LAST SPANS SHALL BE EQUAL AS PER BELOW.
10. FOR RAILINGS IMBEDDED IN EARTH SEE C106 FOR STANDARD APPLICATION.
11. SUBMIT SHOP DRAWINGS FOR THE RAINING PRIOR TO INSTALLATION.
12. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

CALCULATION FOR DETERMINING POST SPACING FOR HAND RAILING



L = LENGTH OF WALL IN M.
N = NO. OF WHOLE 2.5m SPANS
S = LENGTH OF FIRST AND LAST SPAN

TO CALCULATE S, FIRST CALCULATE N IN WHOLE NUMBERS.

$$N = \frac{L-0.3}{2.5}$$

$$S = \frac{(L-0.3) - (N \times 2.5)}{2}$$

IF S IS LESS THAN 1.2m ADD 1.25m REDUCE NO. WHOLE 2.5m SPANS BY 1.

EXAMPLE

L = 20 METERS

DROP DECIMAL

$$N = \frac{20-0.3}{2.5} = \frac{19.7}{2.5} = \boxed{7}.88$$

$$S = \frac{(20-0.3) - (7 \times 2.5)}{2} = \frac{19.7-17.5}{2} = \frac{2.2}{2} = 1.1\text{m}$$

BUT 1.1 IS LESS THAN 1.2

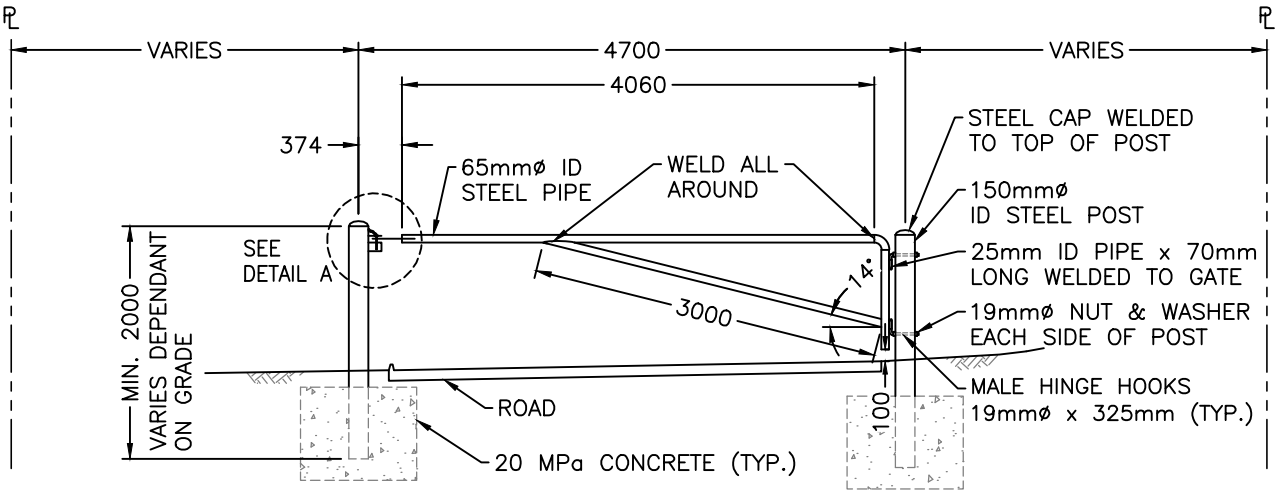
THEREFORE $S = 1.1 + \frac{2.5}{2} = \underline{2.35}$

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

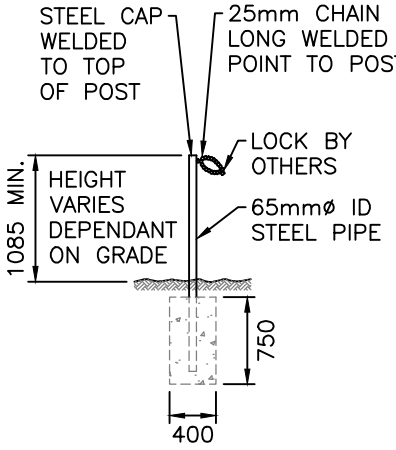
HAND RAILING DETAIL

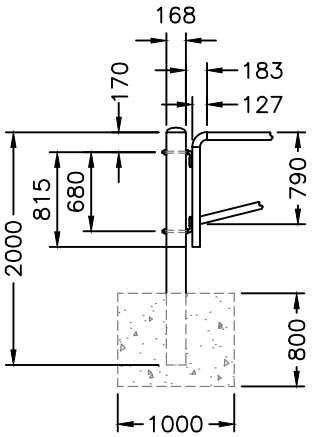
DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C119
CHECKED BY:	KW	DATE:	JULY 2026	

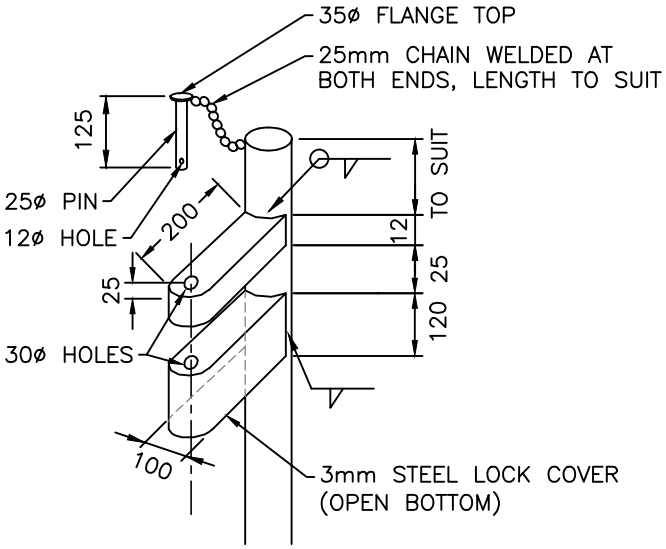
2026

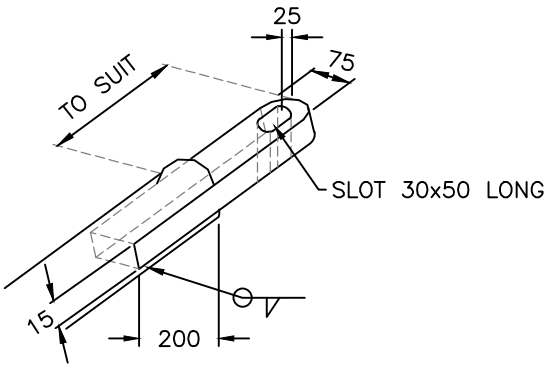


SINGLE GATE









POST DETAILS

DETAIL A

NOTES:
1. ALL GATE COMPONENTS SHALL BE A36 MILD STEEL.
2. ALL PIPE SHALL BE STANDARD WALL THICKNESS.
3. ALL COMPONENTS SHALL HAVE PRIME COAT & TWO COATS OF WHITE ENAMEL PAINT.
4. ALL POSTS SHALL BE INSTALLED PLUMB AND GATE SWING LEVEL.
5. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

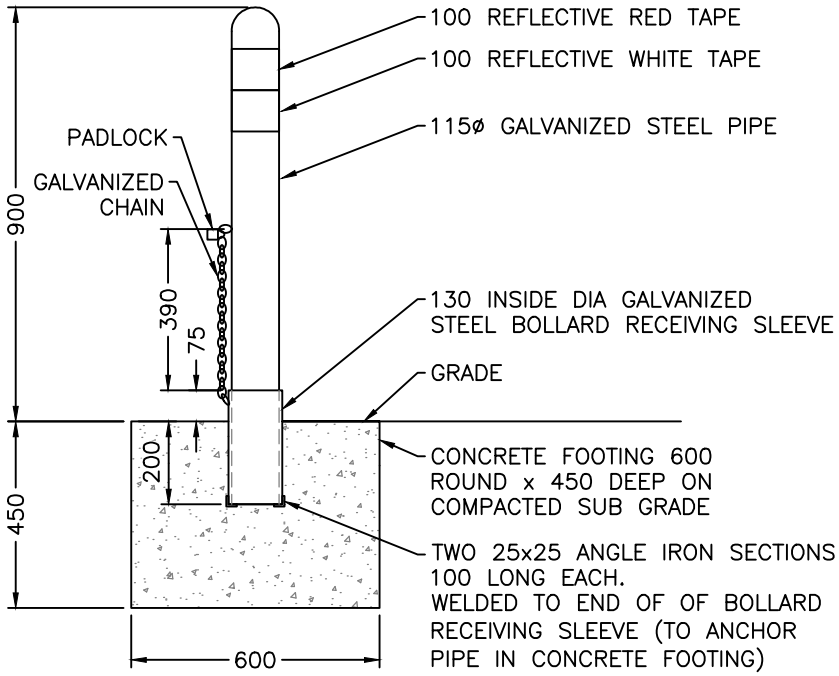
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

SINGLE GATE DETAILS

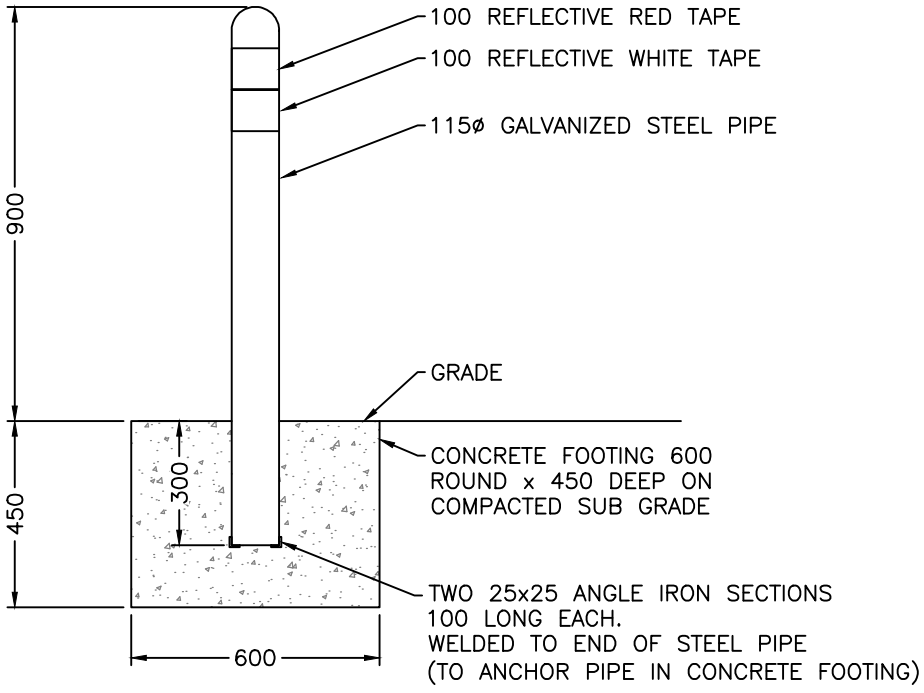
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C120

2026



TRAIL BOLLARD – REMOVABLE



TRAIL BOLLARD – PERMANENT

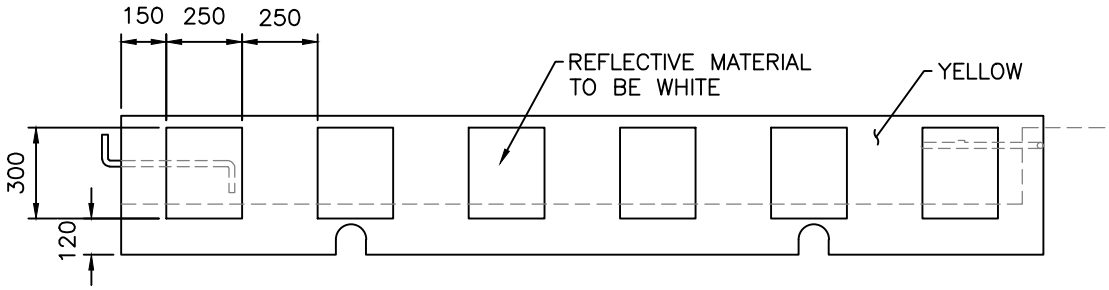
NOTES:
1. BOLLARDS WILL BE SET BACK A MINIMUM 4.0m FROM ANY INTERSECTION OR URBAN TRAIL.
2. AN AMBER REFLECTIVE PAVEMENT MARKER IS TO BE PLACED 2.0m IN FRONT AND BEHIND EACH BOLLARD.
3. POST TO BE SCHEDULE 40 HOT DIPPED GALVANIZED PIPE.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

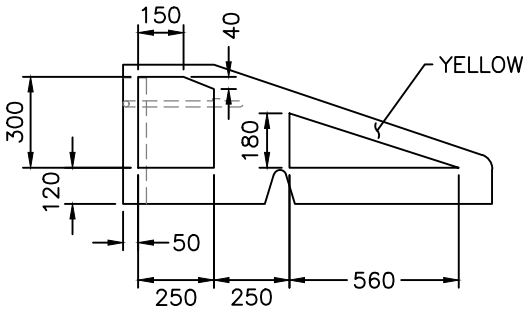
TRAIL BOLLARD

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C121
CHECKED BY:	KW	DATE:	JULY 2026	

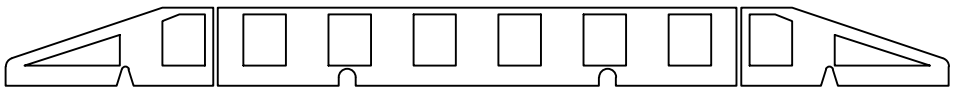
2026



LOW BARRIER



BULL–NOSE



TYPICAL ARRANGEMENT

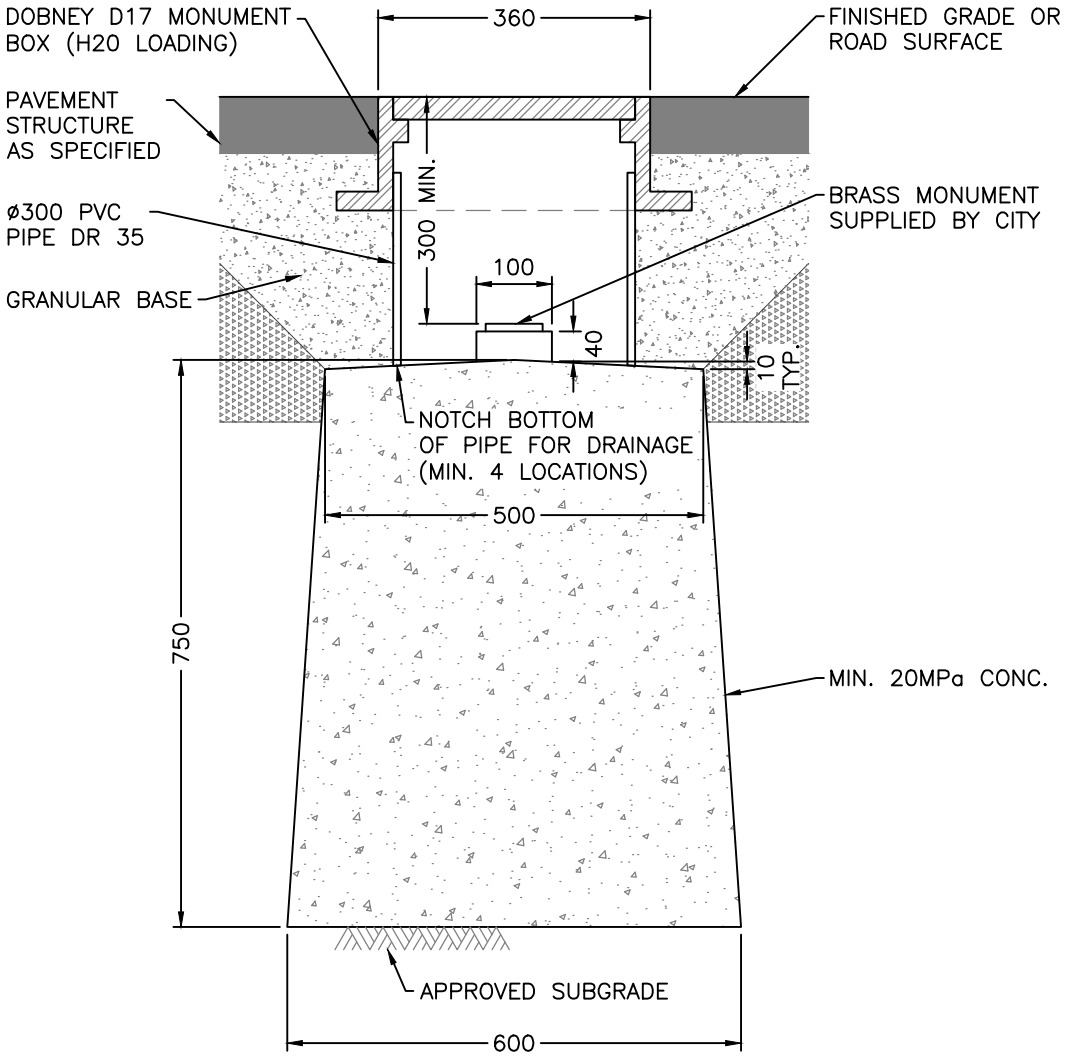
NOTES:

1. PRECAST CONCRETE BULL–NOSE (CBN–1) AND LOW BARRIER (CLB–1) SHALL BE MANUFACTURED TO MoTT STANDARD SPECIFICATIONS SP941.
2. BULL–NOSE AND LOW BARRIER SHALL HAVE MESH TYPE REINFORCING.
3. BULL–NOSE SHALL BE EITHER HOOK OR EYE SECTIONS AS REQUIRED.
4. PAINT SHALL BE TO CGSB 1–GP–74M ALKYD TRAFFIC PAINT.
5. PAINT COLOURS SHALL BE TO CGSB 1–GP–12C
   YELLOW 505–308
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

PRECAST REINFORCED CONCRETE BARRIER

DRAWN BY: SM	SCALE: N.T.S.	**BBY-** C122	2026
CHECKED BY: KW	DATE: JULY 2026		



NOTES:

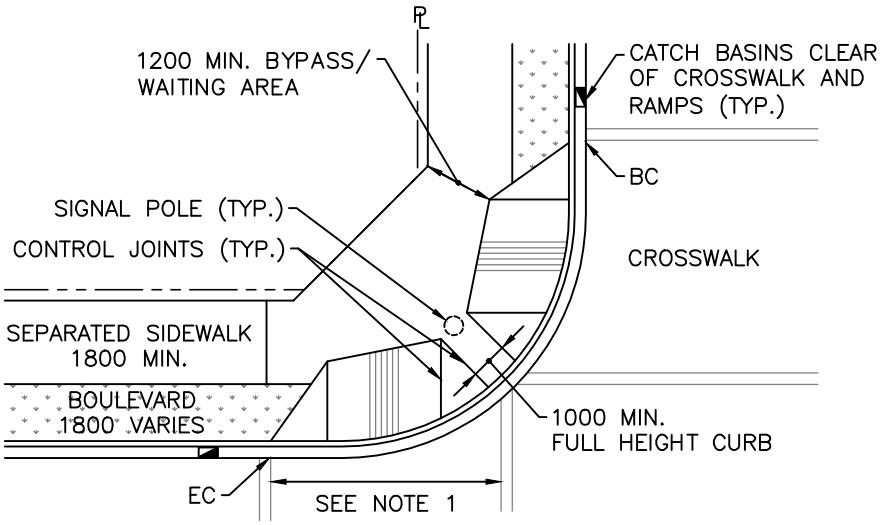
1. USE OF BELL OR JOINT END OF PIPE NOT ALLOWED.
2. REST PVC PIPE ON CONCRETE MONOLITH.
3. MIN. 40 CLEARANCE BETWEEN PVC PIPE AND MONUMENT BOX LID FLANGE.
4. NO GRANULAR BASE INSIDE MONUMENT BOX OR PVC PIPE.
5. MONOLITH SQUARE OR CIRCULAR.
6. SLOPE MONUMENT PINNACLE TO MONOLITH ON 2 SIDES.
7. CONTACT SURVEY DEPARTMENT MINIMUM 48 HOURS PRIOR TO WORK TO OBTAIN POSITIONING AND BRASS MONUMENT.
8. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

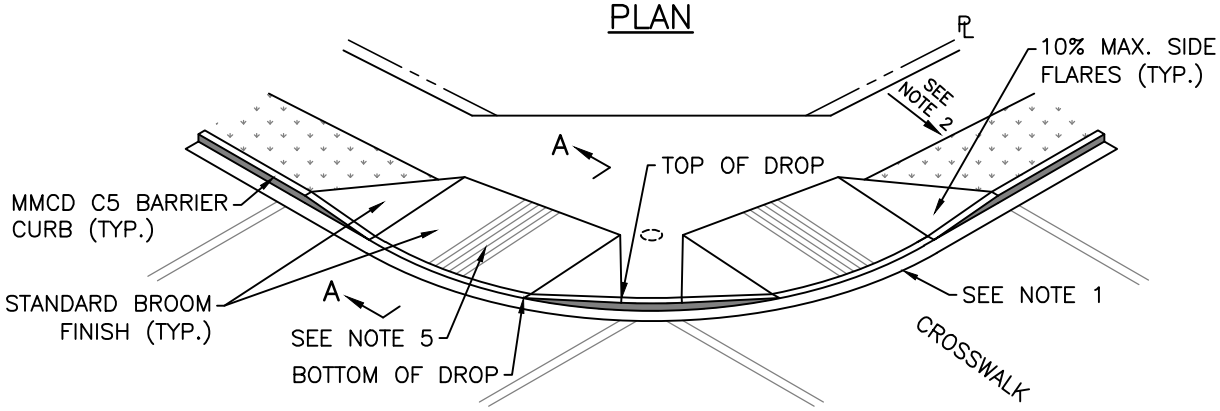
SURVEY MOMUMENT

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C123
CHECKED BY:	KW	DATE:	JULY 2026	

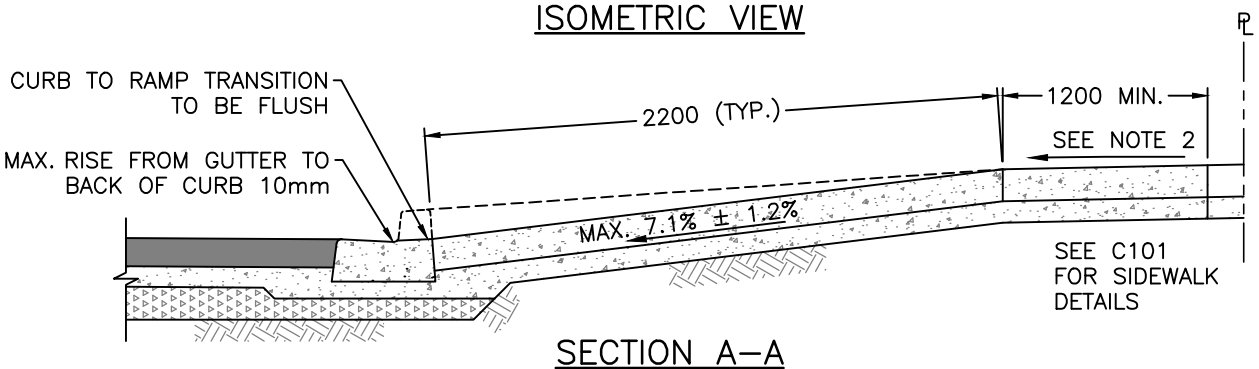
2026



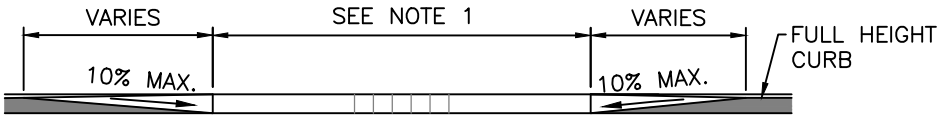
PLAN



ISOMETRIC VIEW



SECTION A–A



FRONT ELEVATION

NOTES:

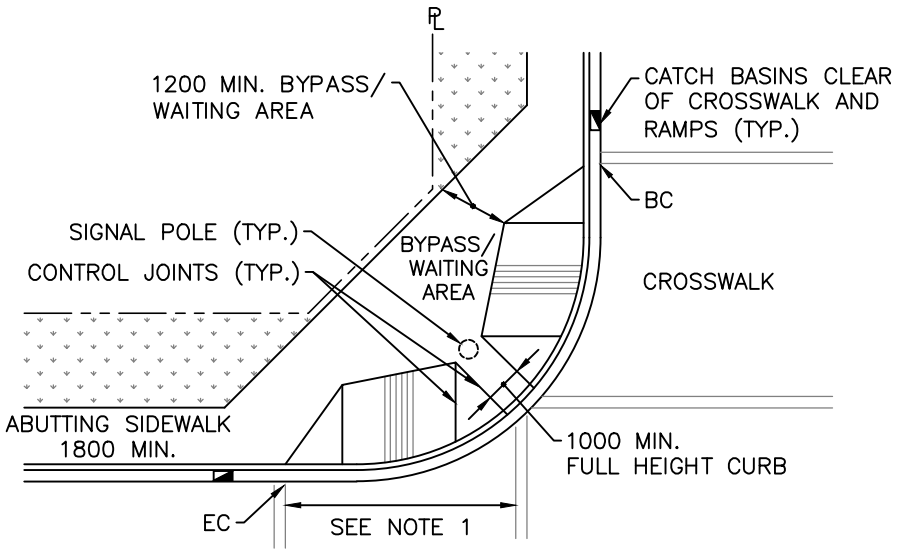
1. FLAT RAMP SECTION SHOULD MINIMUM TO MATCH ADJACENT SIDEWALK WIDTH 1.8m (TYP.). 3.0m DESIRABLE.
2. TYP. MIN. 1% MAX. 3% (CONSTRAINT). DESIRABLE 2%.
3. SEPARATED DOUBLE RAMP IS THE PREFERRED RAMP DESIGN.
4. FOR ELEPHANT'S FEET CROSSINGS, RAMP MAY NEED TO BE WIDENED TO MATCH CYCLE TRACK OR URBAN TRAIL WIDTH.
5. 6 SCORE LINES @ 150 SPACING CENTERED AND PARALLEL TO CROSSWALK.
   USE 3/8" TROWEL. TROWEL EDGE TO BE AS CLOSE TO FLUSH AS POSSIBLE WITH BROOM FINISH (TYP.).
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

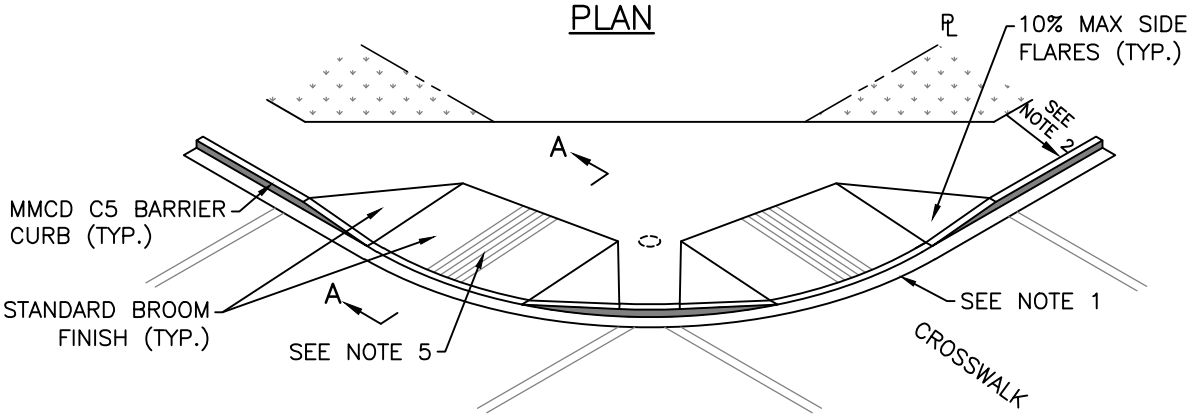
SEPARATED DOUBLE RAMP
SEPARATED DOUBLE

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C124A
CHECKED BY:	KW	DATE:	JULY 2026	

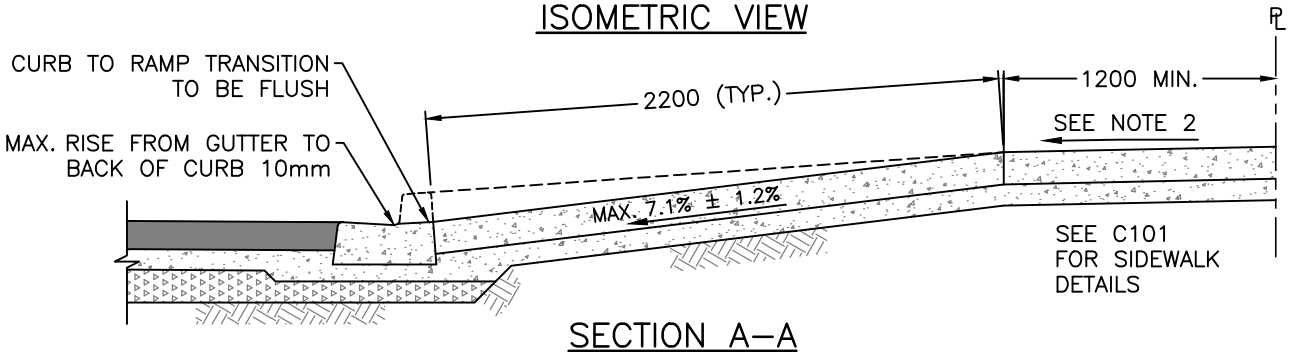
2026



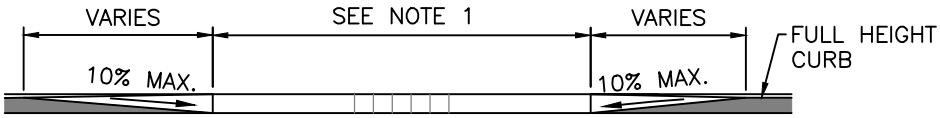
PLAN



ISOMETRIC VIEW



SECTION A–A



FRONT ELEVATION

NOTES:

1. FLAT RAMP SECTION SHOULD MINIMUM TO MATCH ADJACENT SIDEWALK WIDTH 1.8m (TYP.). 3.0m DESIRABLE.
2. TYP. MIN. 1% MAX. 3% (CONSTRAINT). DESIRABLE 2%.
3. SEPARATED DOUBLE RAMP IS THE PREFERRED RAMP DESIGN.
4. FOR ELEPHANT'S FEET CROSSINGS, RAMP MAY NEED TO BE WIDENED TO MATCH CYCLE TRACK OR URBAN TRAIL WIDTH.
5. 6 SCORE LINES @ 150 SPACING CENTERED AND PARALLEL TO CROSSWALK.
   USE 3/8" TROWEL. TROWEL EDGE TO BE AS CLOSE TO FLUSH AS POSSIBLE WITH BROOM FINISH (TYP.).
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

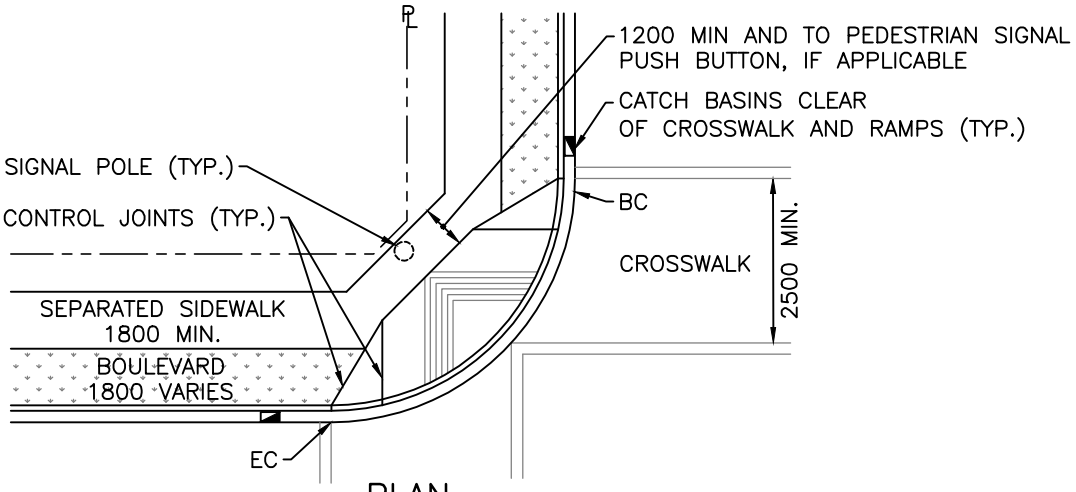
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

WHEELCHAIR RAMP
DOUBLE RAMP – ABUTTING WALK

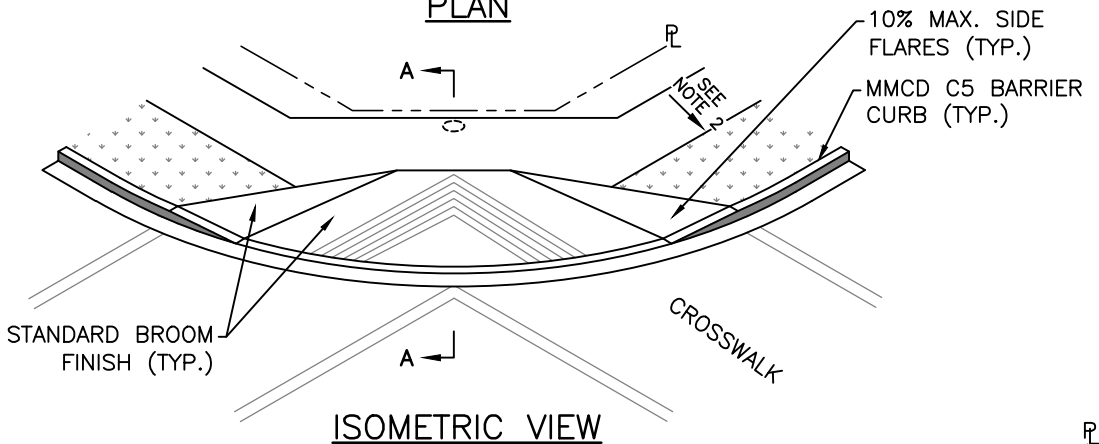
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C124B

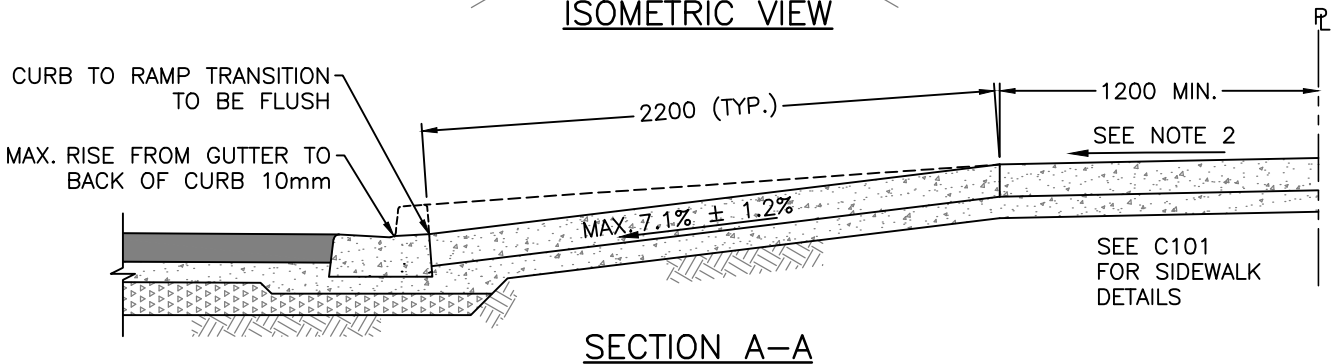
2026



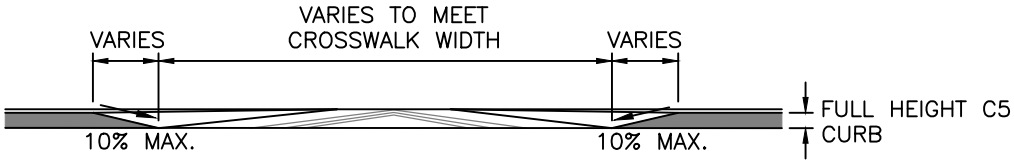
PLAN



ISOMETRIC VIEW



SECTION A–A



FRONT ELEVATION

NOTES:

1. SEPARATED DOUBLE RAMP IS THE PREFERRED RAMP DESIGN NOT SINGLE LARGE RAMP.
2. TYP. MIN. 1% MAX. 3% (CONSTRAINT). DESIRABLE 2%.
3. TO BE USED ONLY AS APPROVED BY CITY ENGINEER.
4. FOR ELEPHANT'S FEET CROSSINGS, RAMP MAY NEED TO BE WIDENED TO MATCH CYCLE TRACK OR URBAN TRAIL WIDTH.
5. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

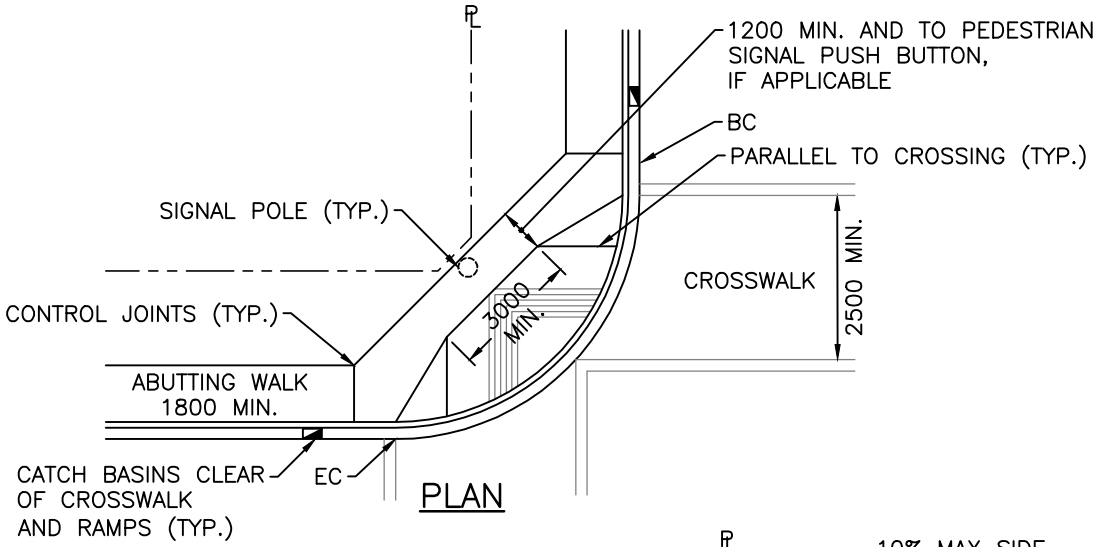
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

WHEELCHAIR RAMP SEPARATED SINGLE LARGE

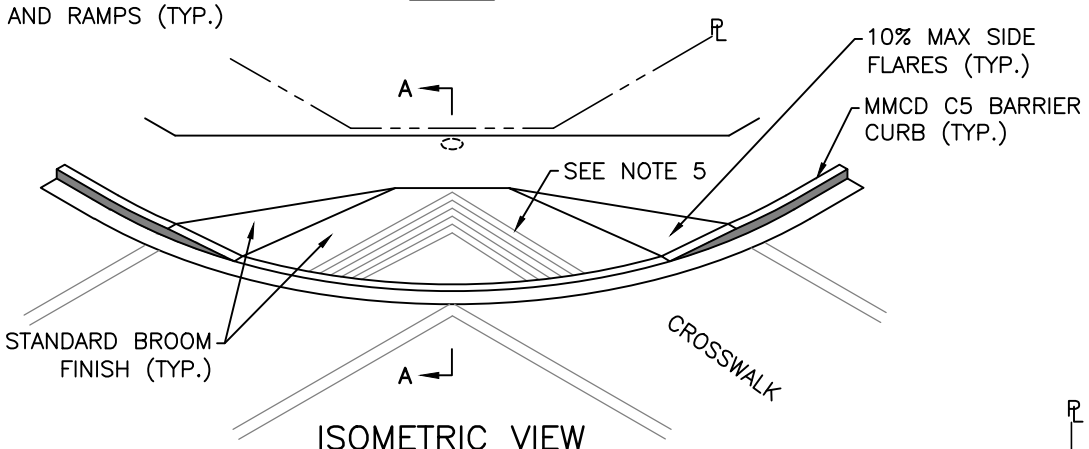
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C125A

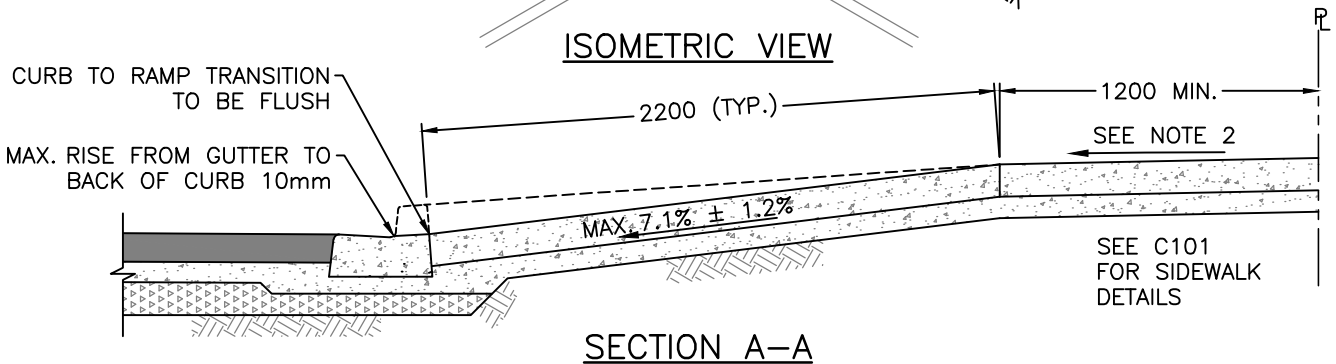
2026



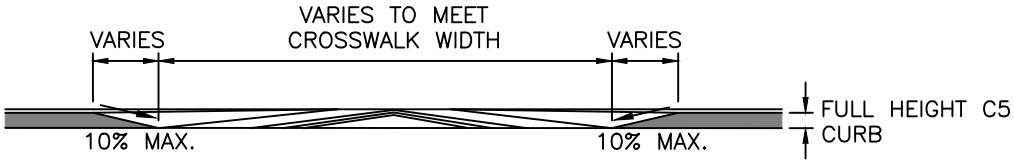
PLAN



ISOMETRIC VIEW



SECTION A–A



FRONT ELEVATION (INTERIM APPLICATION)

NOTES:

1. FLAT RAMP SECTION SHOULD MINIMUM TO MATCH ADJACENT SIDEWALK WIDTH 1.8m (TYP.). 3.0m DESIRABLE.
2. TYP. MIN. 1% MAX. 3% (CONSTRAINT). DESIRABLE 2%.
3. SEPARATED DOUBLE RAMP IS THE PREFERRED RAMP DESIGN.
4. FOR ELEPHANT'S FEET CROSSINGS, RAMP MAY NEED TO BE WIDENED TO MATCH CYCLE TRACK OR URBAN TRAIL WIDTH.
5. 6 SCORE LINES @ 150 SPACING CENTERED AND PARALLEL TO CROSSWALK. USE 3/8" TROWEL. TROWEL EDGE TO BE AS CLOSE TO FLUSH AS POSSIBLE WITH BROOM FINISH (TYP.).
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

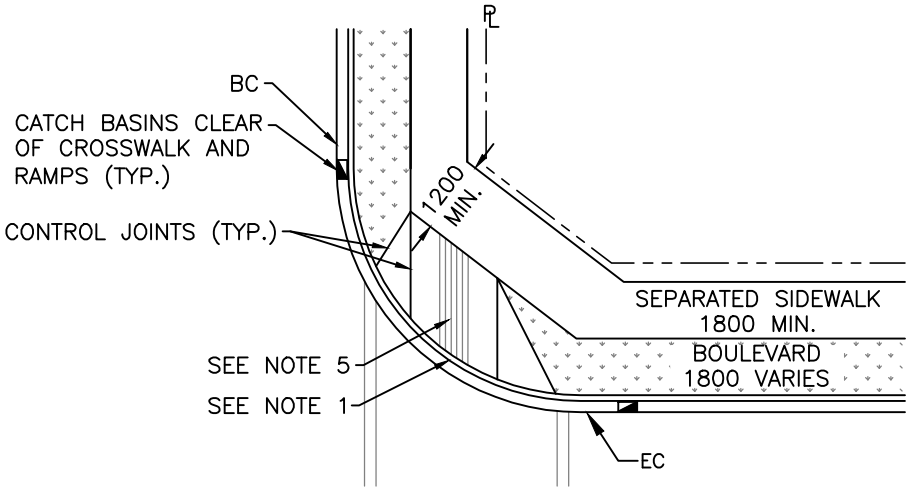
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

WHEELCHAIR RAMP
SINGLE LARGE – ABUTTING WALK

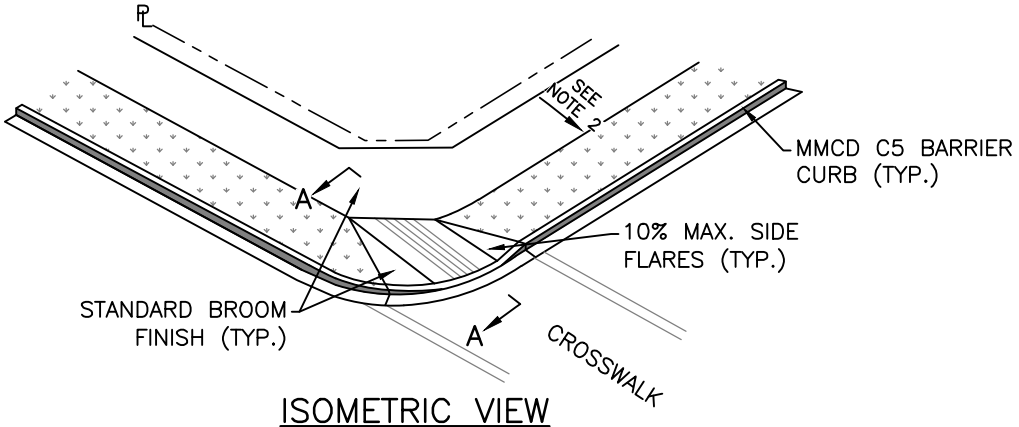
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C125B

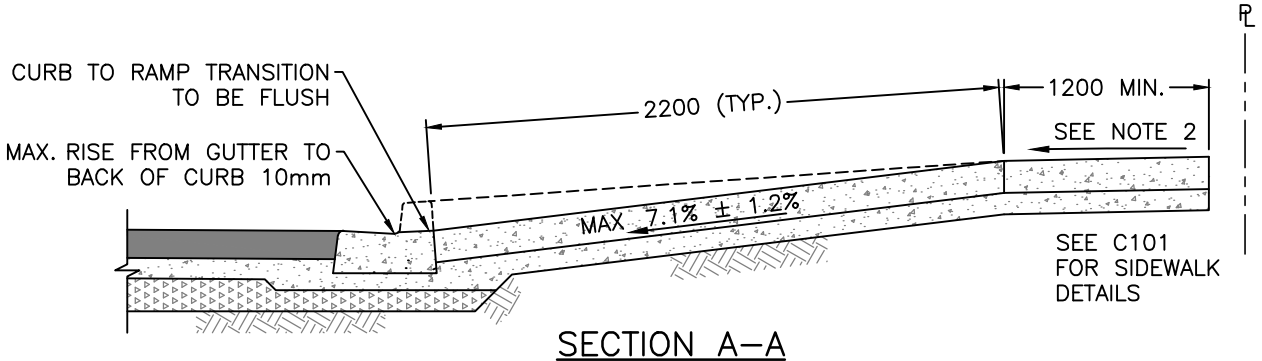
2026



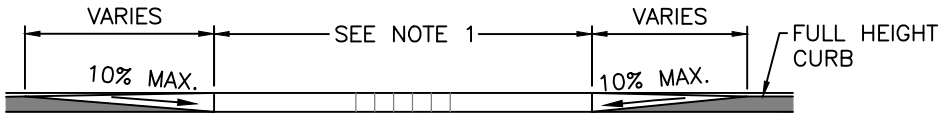
PLAN



ISOMETRIC VIEW



SECTION A–A



FRONT ELEVATION

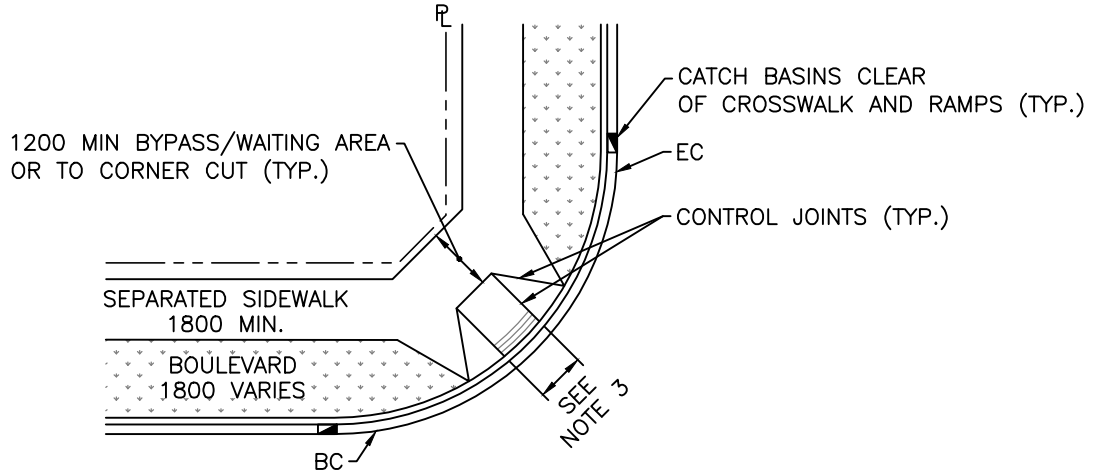
NOTES:

1. FLAT RAMP SECTION SHOULD MINIMUM TO MATCH ADJACENT SIDEWALK WIDTH 1.8m (TYP.). 3.0m DESIRABLE.
2. TYP. MIN. 1% MAX. 3% (CONSTRAINT). DESIRABLE 2%.
3. SEPARATED DOUBLE RAMP IS THE PREFERRED RAMP DESIGN.
4. FOR ELEPHANT'S FEET CROSSINGS, RAMP MAY NEED TO BE WIDENED TO MATCH CYCLE TRACK OR URBAN TRAIL WIDTH.
5. 6 SCORE LINES @ 150 SPACING CENTERED AND PARALLEL TO CROSSWALK.
   USE 3/8" TROWEL. TROWEL EDGE TO BE AS CLOSE TO FLUSH AS POSSIBLE WITH BROOM FINISH (TYP.).
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

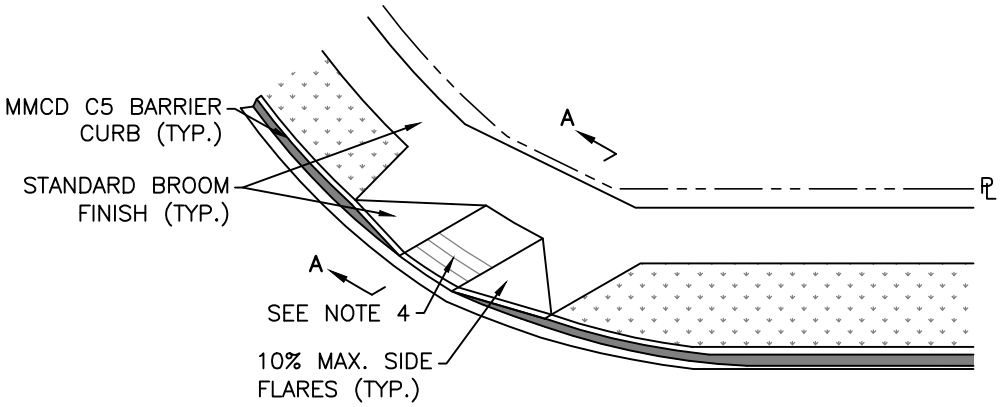
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

WHEELCHAIR RAMP SINGLE DIRECTIONAL

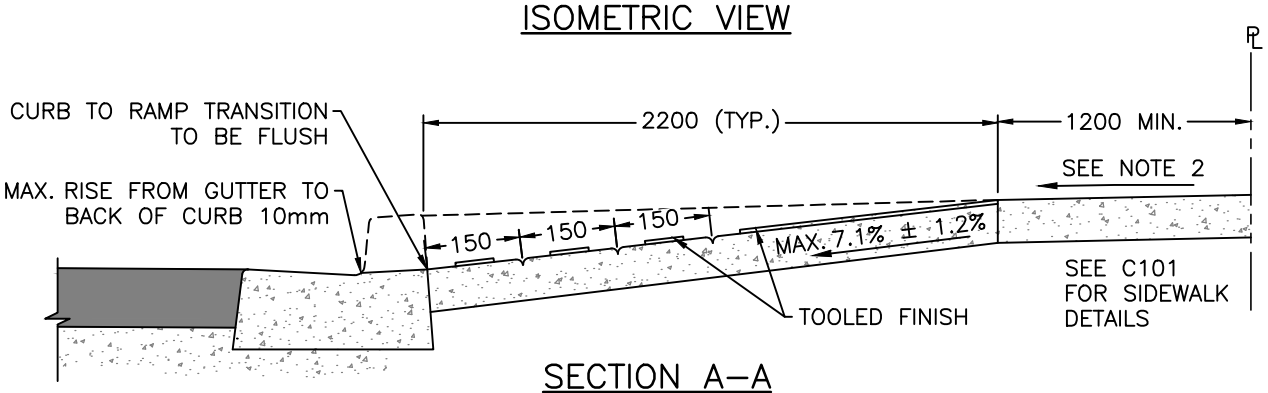
DRAWN BY: SM	SCALE: N.T.S.	**BBY-** C126	2026
CHECKED BY: KW	DATE: JULY 2026		



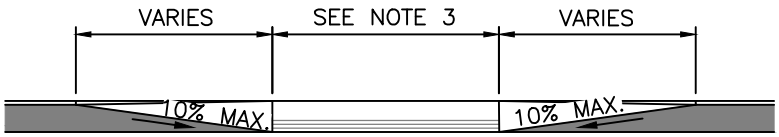
PLAN



ISOMETRIC VIEW



SECTION A–A



FRONT ELEVATION

NOTES:

1. SEPARATED DOUBLE RAMP IS THE PREFERRED RAMP DESIGN NOT SINGLE LARGE RAMP.
2. TYP. MIN. 1% MAX. 3% (CONSTRAINT). DESIRABLE 2%.
3. FLAT RAMP SECTION SHOULD MINIMUM TO MATCH ADJACENT SIDEWALK WIDTH 1.8m (TYP.). 3.0m DESIRABLE.
4. FOR APPLICATION WHERE NO CROSSWALK IS EXPECTED.
5. SCORING LINES @ 0.15m SPACING USING 3/8" TROWEL.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

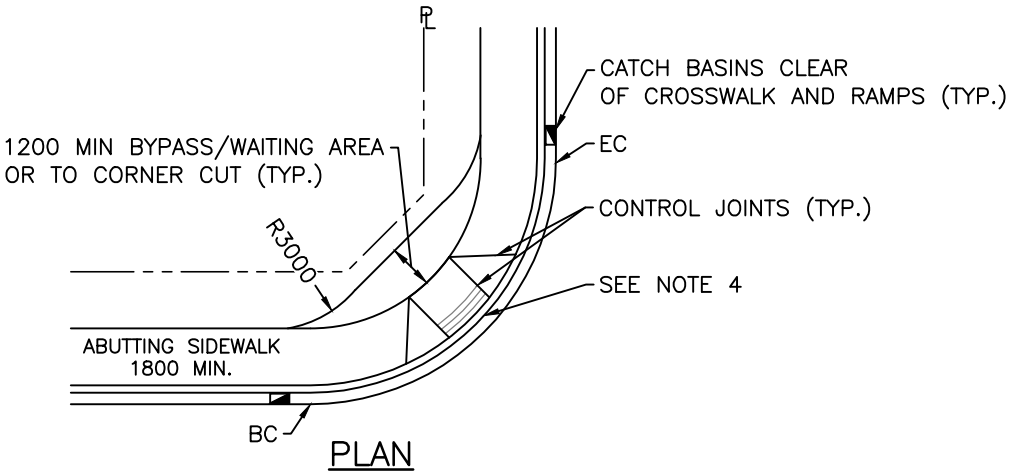
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

WHEELCHAIR RAMP
LOCAL RESIDENTIAL STREET DIAGONAL SEPARATED SIDEWALK

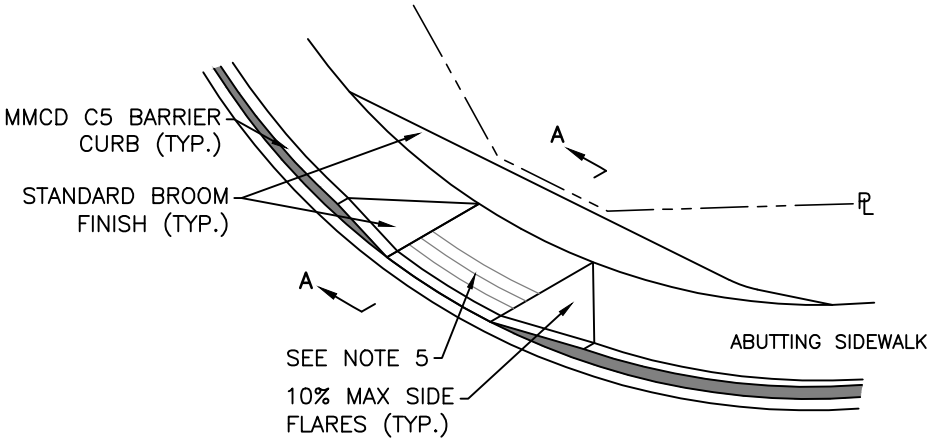
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	KW	DATE:	JULY 2026

BBY- C127A

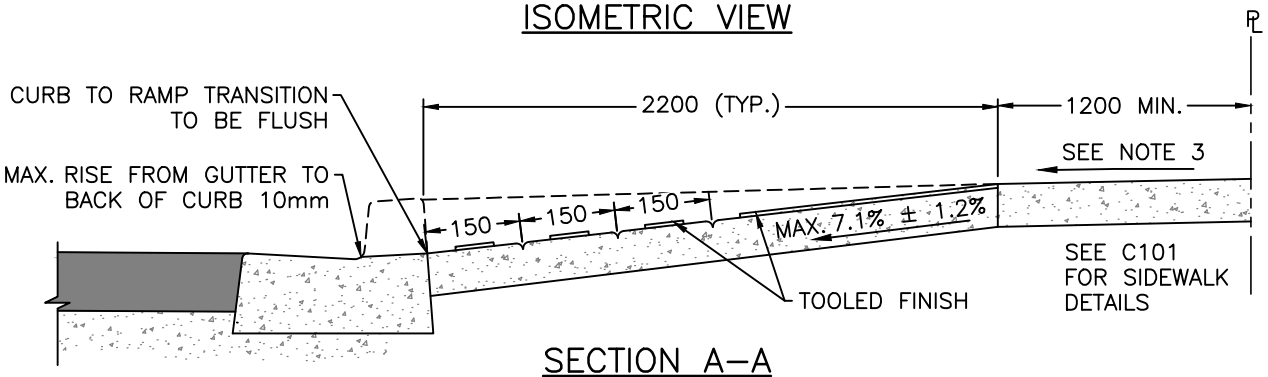
2026



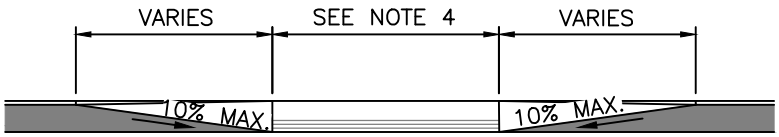
PLAN



ISOMETRIC VIEW



SECTION A–A



FRONT ELEVATION

NOTES:

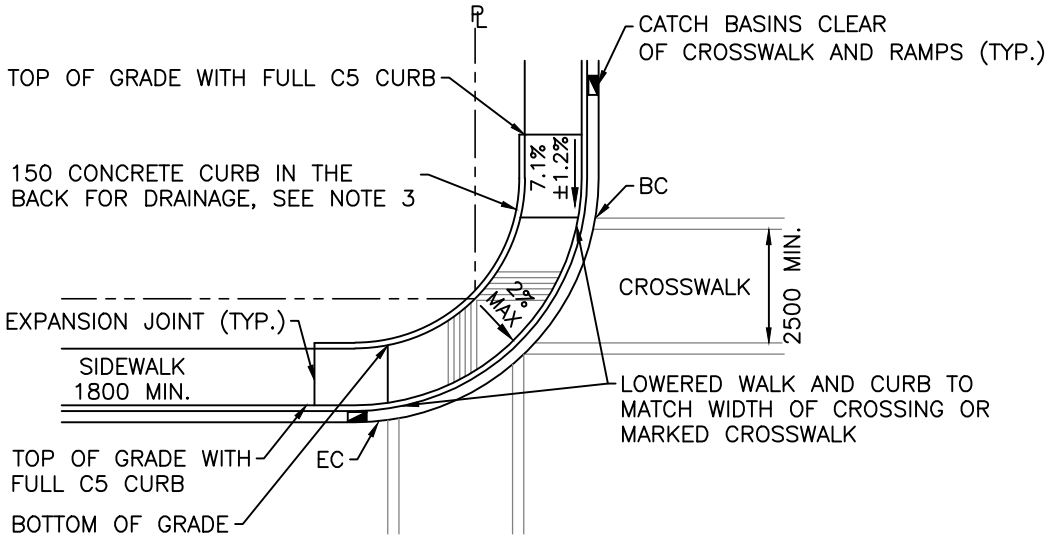
1. ABUTTING SIDEWALK IS NOT INTENDED FOR NEW CONSTRUCTION. FOR USE ONLY AS APPROVED BY CITY ENGINEER WHERE CURRENTLY EXISTS.
2. FOR USE IN CASES WHERE NO MARKED CROSSWALK IS ANTICIPATED.
3. TYP. MIN. 1% MAX. 3% (CONSTRAINT). DESIRABLE 2%.
4. FLAT RAMP SECTION SHOULD MINIMUM TO MATCH ADJACENT SIDEWALK WIDTH 1.8m (TYP.). 3.0m DESIRABLE.
5. SCORING LINES @ 0.15m SPACING USING 3/8" TROWEL.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

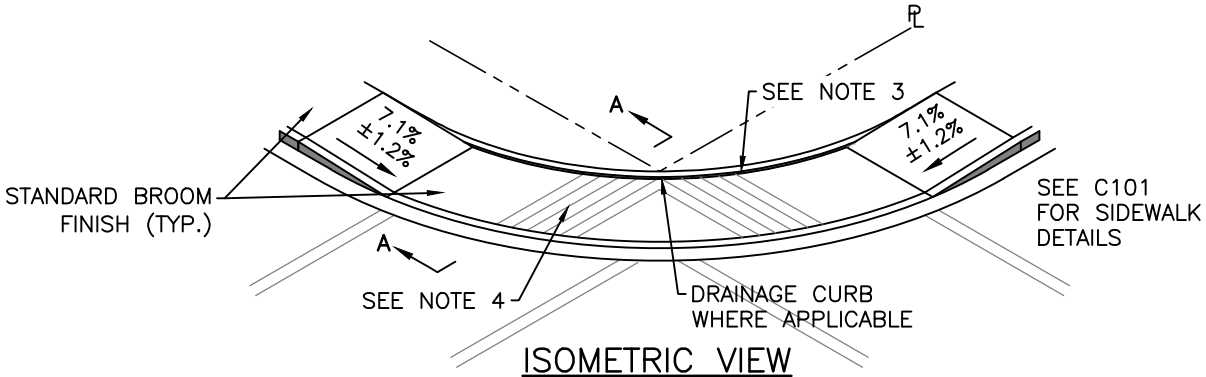
WHEELCHAIR RAMP
LOCAL RESIDENTIAL STREET DIAGONAL ABUTTING SIDEWALK

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C127B
CHECKED BY:	KW	DATE:	JULY 2026	

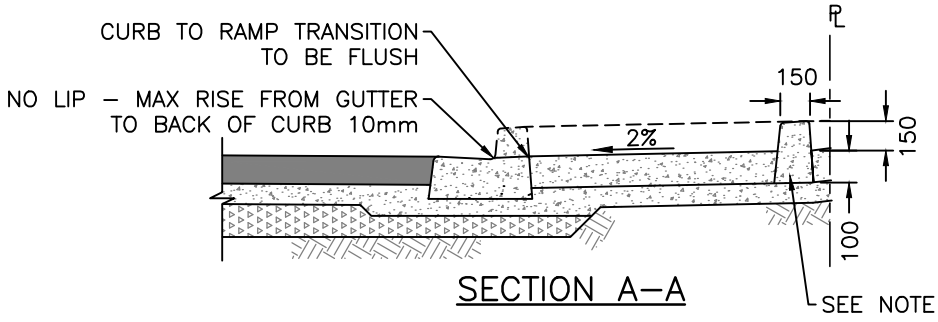
2026



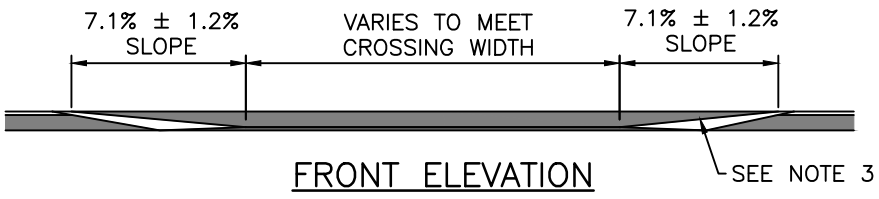
PLAN



ISOMETRIC VIEW



SECTION A–A



FRONT ELEVATION

NOTES:

1. ABUTTING WALK IS NOT INTENDED FOR NEW CONSTRUCTION; FOR USE ONLY AS APPROVED BY CITY ENGINEER WHERE APPROPRIATE.
2. FOR USE IN CASES WHERE PROPERTY LINE DOES NOT ALLOW ADEQUATE SPACE FOR PROPER 1.2m RAMP BYPASS AREA.
3. FOR LOW SIDE TO PREVENT DRAINAGE AS SPECIFIED BY ENGINEER.
4. 6 SCORE LINES @ 0.15m SPACING CENTERED AND PARALLEL TO CROSSWALK. USE 3/8" TROWEL. TROWEL EDGE TO BE AS CLOSE TO FLUSH AS POSSIBLE WITH BROOM FINISH (TYP.).
5. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

WHEELCHAIR RAMP
INTERIM ABUTTING LIMITED SPACE

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C128
CHECKED BY:	KW	DATE:	JULY 2026	

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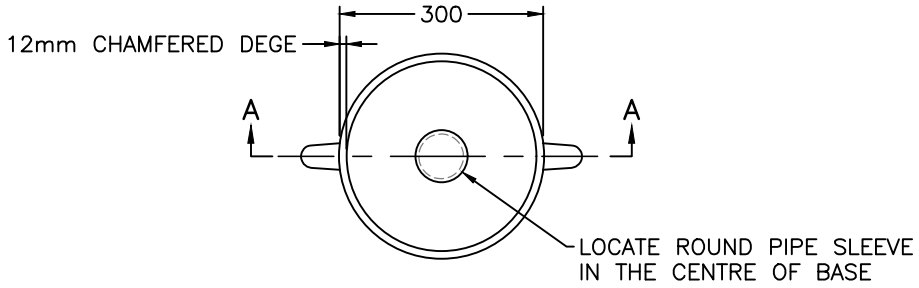

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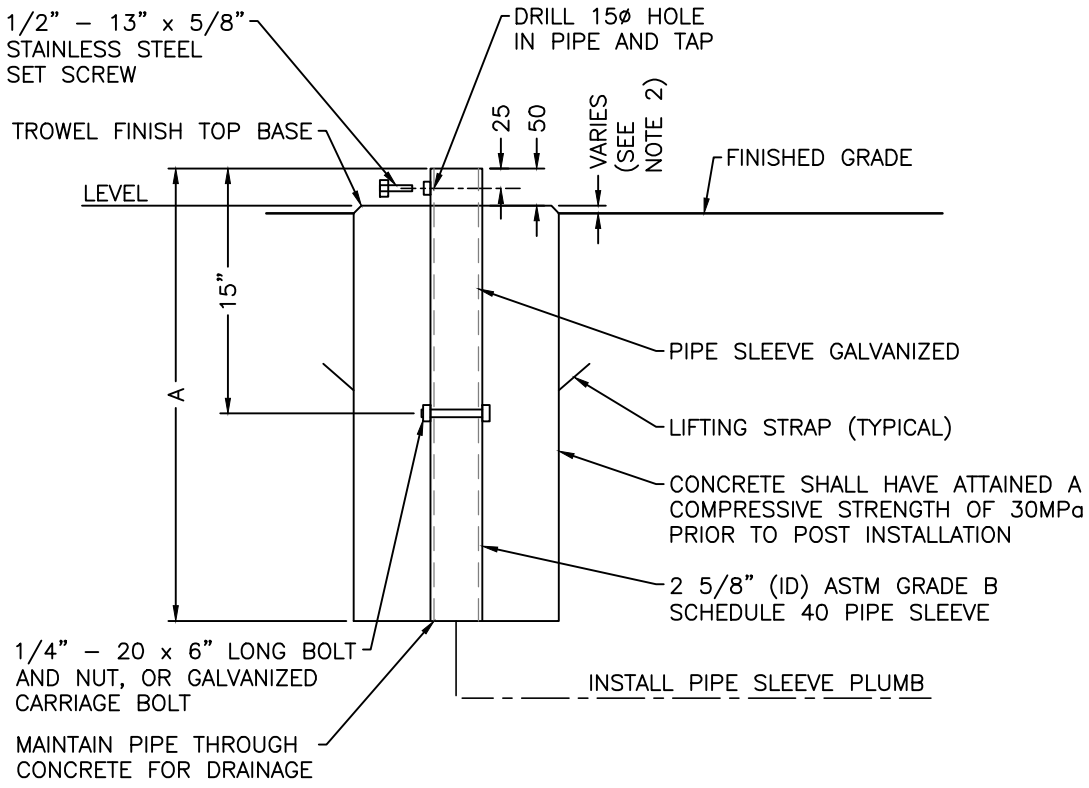


SECTION A–A

BASE TYPE	APPLICATION	APPROXIMATE MASS	VOLUME OF CONCRETE	A
1	SINGLE POST SIGNS IN PAVED ISLANDS OR SIDEWALKS	100 kg	0.04 m3	600
2	SINGLE OR TWO POST SIGNS IN GRAVEL SHOULDER	147 kg	0.06 m3	800

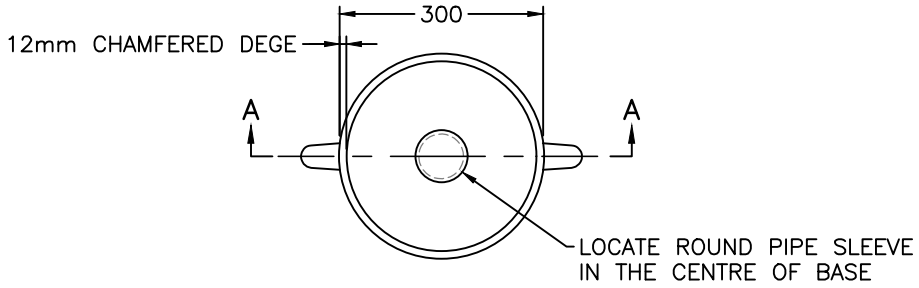
NOTES:
1. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. BASE SHALL BE INSTALLED 25mm ABOVE FINISHED GRADE EXCEPT WHERE INSTALLED IN SIDEWALK IT SHALL BE FLUSHED WITH TOP OF SIDEWALK WITH NO CHAMFERED EDGE.
3. METAL PORTION OF SIGN SLEEVE TO MAINTAIN 2" ABOVE GRADE AT ALL TIME, TO ALL ACCESS TO SET SCREW.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

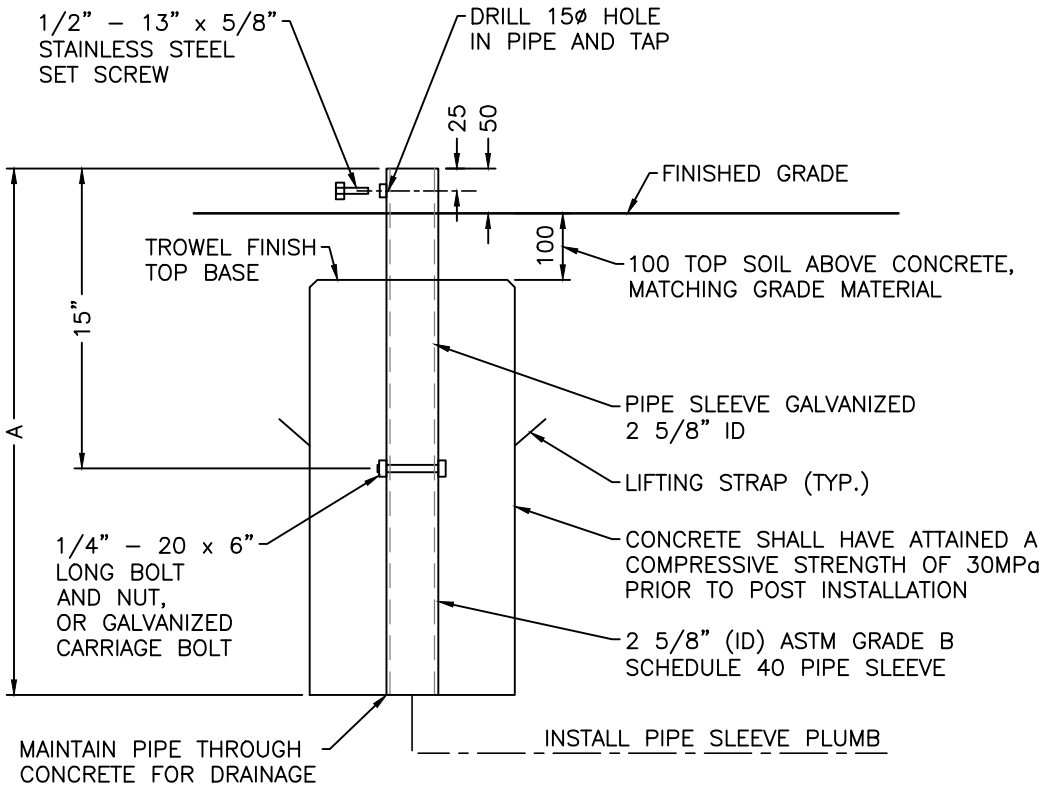
ROUND CONCRETE BASES FOR ROUND STEEL SIGN POSTS (PRECAST OR POURED IN PLACE)

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C129
CHECKED BY:	KW	DATE:	JULY 2026	

2026



PLAN



SECTION A–A

BASE TYPE	APPLICATION	APPROXIMATE MASS	VOLUME OF CONCRETE	A
1	SINGLE POST SIGNS IN PAVED ISLANDS OR SIDEWALKS	100 kg	0.04 m3	600
2	SINGLE OR TWO POST SIGNS IN GRAVEL SHOULDER	147 kg	0.06 m3	800

NOTES:
1. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. METAL PORTION OF SIGN SLEEVE TO MAINTAIN 2" ABOVE GRADE AT ALL TIME, TO ACCESS TO SET SCREW.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

ROUND CONCRETE BASES FOR ROUND STEEL SIGN POSTS (IN DIRT, SOD, GRAVEL)

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- C130
CHECKED BY:	KW	DATE:	JULY 2026	

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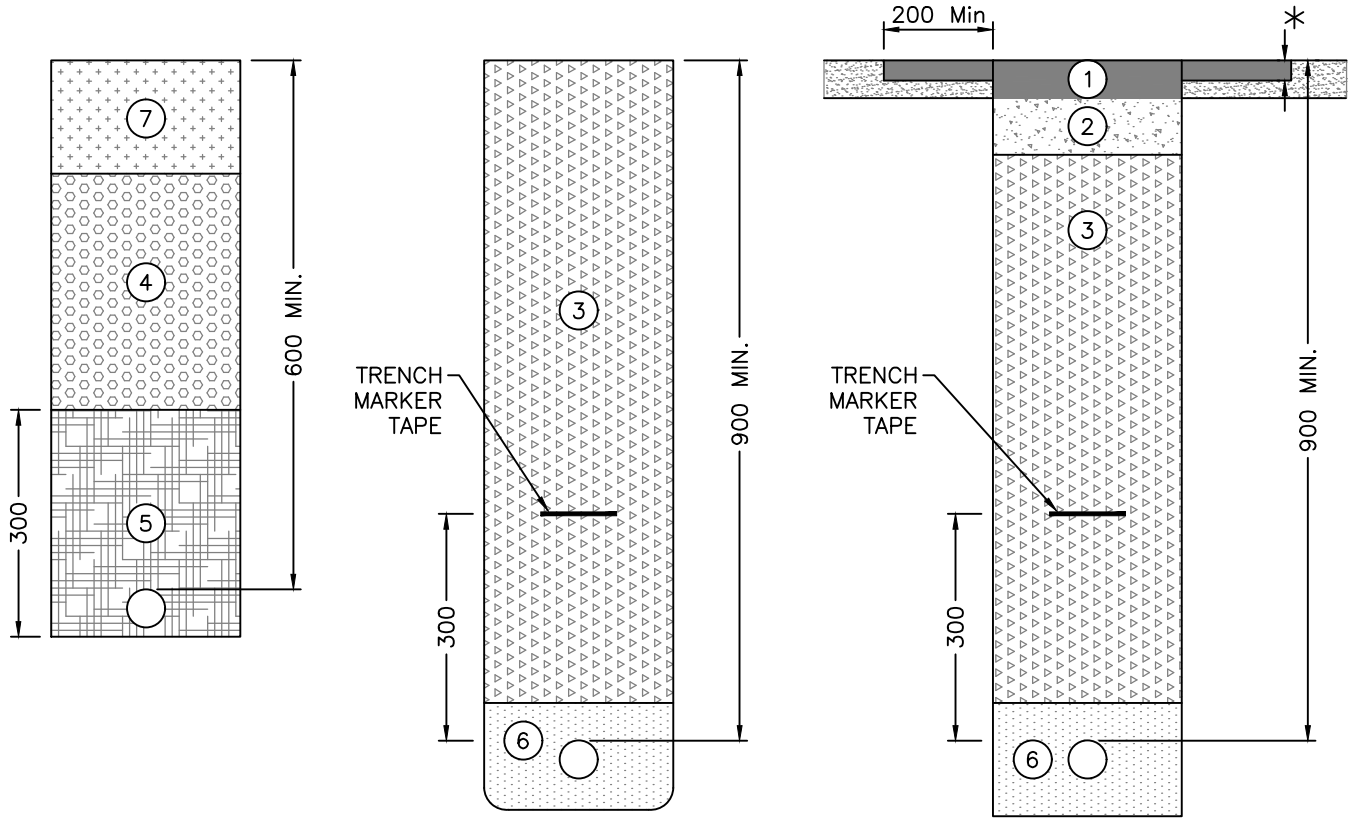
* PAVEMENT THICKNESS AS PER BBY–R114 OF PAVEMENT RESTORATION POLICY



A. TYPICAL TRENCH CONSTRUCTION BEHIND EXISTING CURB OR SIDEWALK.

B. TYPICAL TRENCH CONSTRUCTION ON UNFINISHED ROADWAYS, GRAVEL SHOULDERS OR UNPAVED AREAS. PRIOR TO CURB OR SIDEWALK CONSTRUCTION.

C. TYPICAL TRENCH CONSTRUCTION OF ROADWAYS OR COMMERCIAL DRIVEWAYS CROSSINGS.

NOTES:
1. ASPHALT OR CONCRETE THICKNESS TO EQUAL THAT WHICH IS REMOVED OR AS PER BBY–R114 OF PAVEMENT RESTORATION POLICY, WHICHEVER IS GREATER.
2. GRANULAR BASE COMPACTED DEPTH AS PER BBY–R114 PAVEMENT RESTORATION POLICY.
3. GRANULAR SUBBASE TO BE PLACED IN UNIFORM LAYERS AS PER BBY–R114 PAVEMENT RESTORATION POLICY.
4. MACHINE PLACED BACKFILL EITHER NATIVE EXCAVATED OR BORROW MATERIAL FREE OF ROOTS WITH NO STONES OR OTHER MATERIAL GREATER THAN 200mm IN LARGEST DIMENSION.
5. HAND PLACED & HAND TAMPED UNCLASSIFIED MATERIAL OBTAINED FROM EXCAVATION OR OTHER SOURCE, FREE OF ROOTS, WOOD, BOULDERS, CINDERS, ASH OR FROZEN MATERIAL. THE MAXIMUM SIZE OF THE STONES SHALL NOT EXCEED 50mm IN ITS LARGEST DIMENSION.
6. CONDUIT BEDDING A 50mm BED OF CRUSHED GRANULAR BASE MATERIAL AND THE CONDUIT COVERED WITH A FURTHER 50mm OF CRUSHED GRANULAR BASE.
7. TOP SOIL 150mm THICKNESS FOR GRASSED AREAS OR AREAS AS REQUIRED BY CONSTRUCTION ENGINEER.
8. NUMBER AND SIZE OF CONDUITS MAY VARY.
9. SURFACE RESTORATION TO MATCH EXISTING OR AS PER BBY–R114 OF RESTORATION POLICY.
10. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

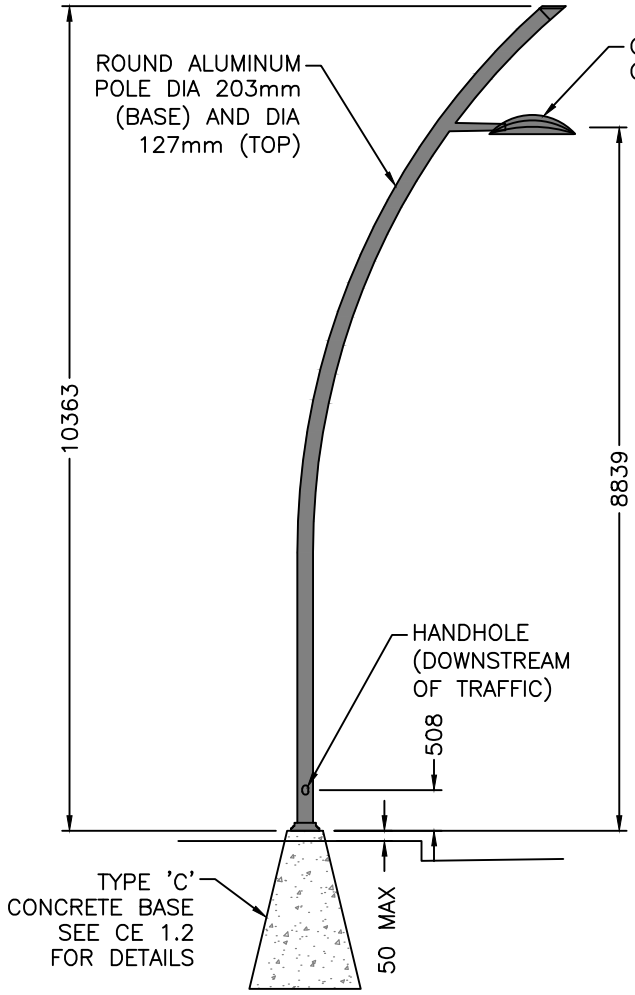
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CONDUIT TRENCH CONSTRUCTION

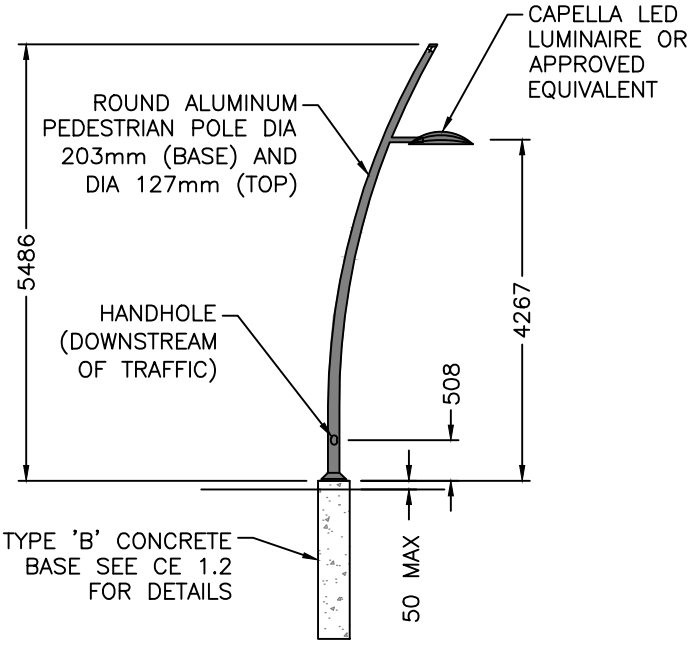
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	FL	DATE:	JULY 2026

BBY- E101

2026



BERESFORD STREET LIGHT POLE (10.3m)



BERESFORD PEDESTRIAN/CYCLE PATH POLE

NOTES:
1. POLE FINISH TO BE POWDERED COATED SILVER/GREY (RAL 7040).
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

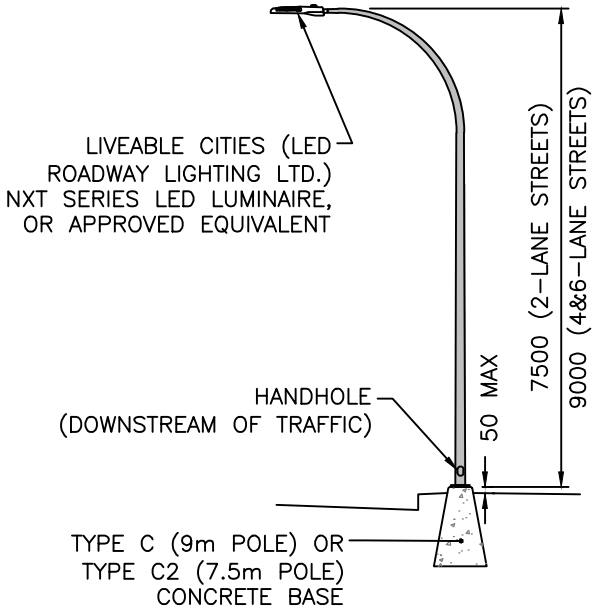
City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

BERESFORD STREET TOWN CENTRE POLE

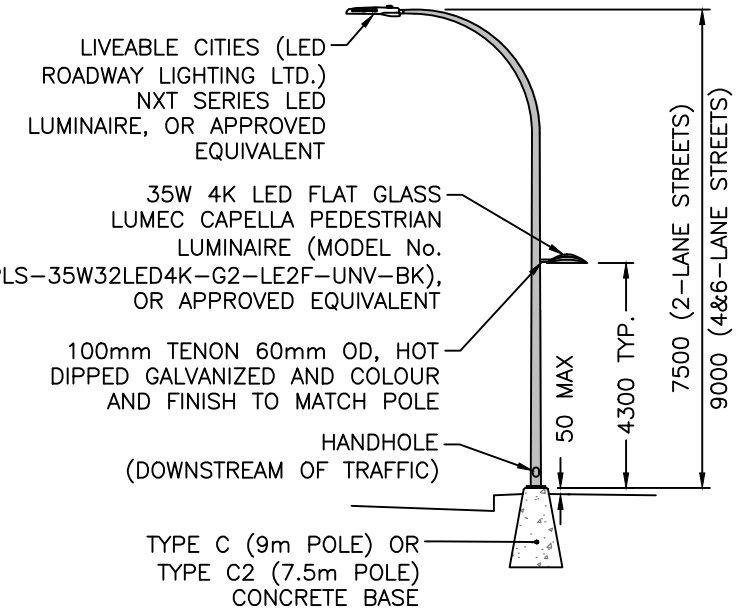
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	FL	DATE:	JULY 2026

BBY- E103

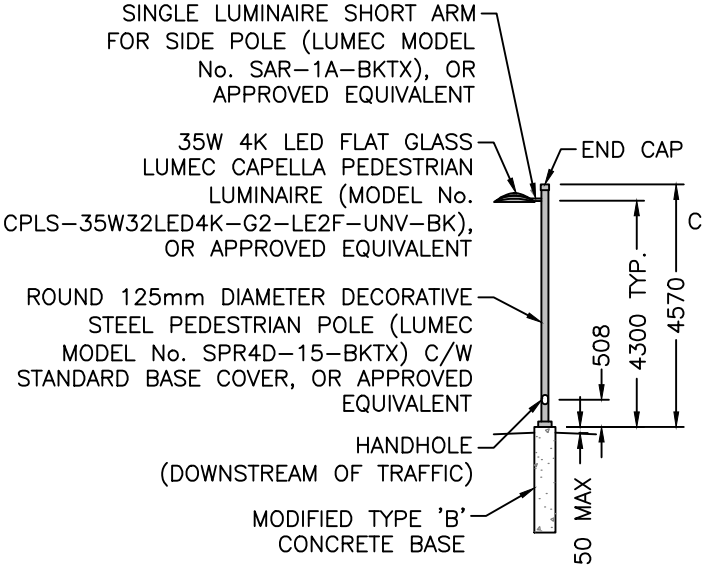
2026



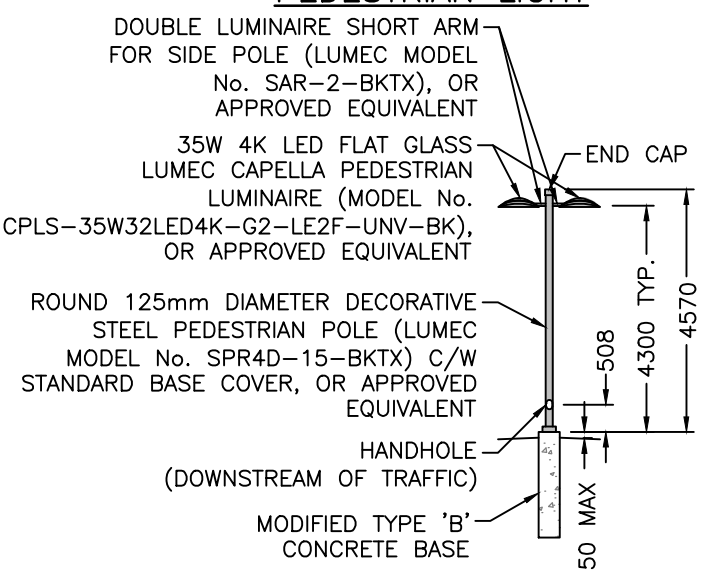
TYPICAL DAVIT STREET LIGHT POLE (7.5/9.0m)



TYPICAL DAVIT STREET LIGHT POLE (7.5/9.0m) C/W PEDESTRIAN LIGHT



TYPICAL PEDESTRIAN/CYCLE TRACK POLE (SINGLE LUMINAIRE)



TYPICAL PEDESTRIAN/CYCLE TRACK POLE (DOUBLE LUMINAIRE)

NOTES:

1. BANNER ARM AND DUPLEX RECEPTACLE INSTALLATION TO BE DESIGNED WHERE REQUIRED BY THE CITY.
2. POLE FINISH TO BE POWDER COATED PECTRUM XP CARBON BLACK (BK50-XP63) FOR PEDESTRIAN LIGHTS AND ALL TOWN CENTER POLES TO BE POWDER COATED CARBON BLACK (BK50-XP63).
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TOWN CENTRE STREET LIGHT POLES

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- E104
CHECKED BY:	FL	DATE:	JULY 2026	

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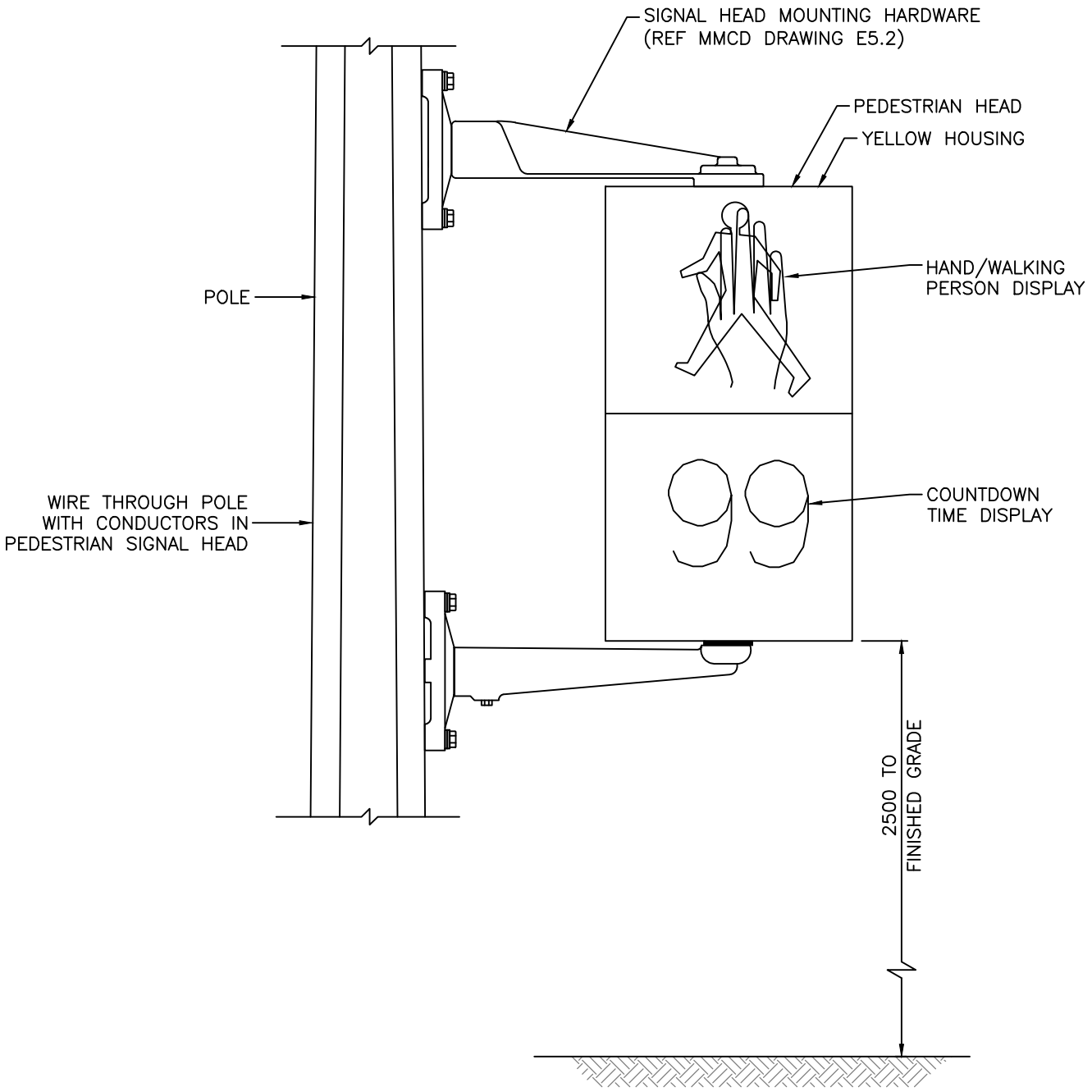


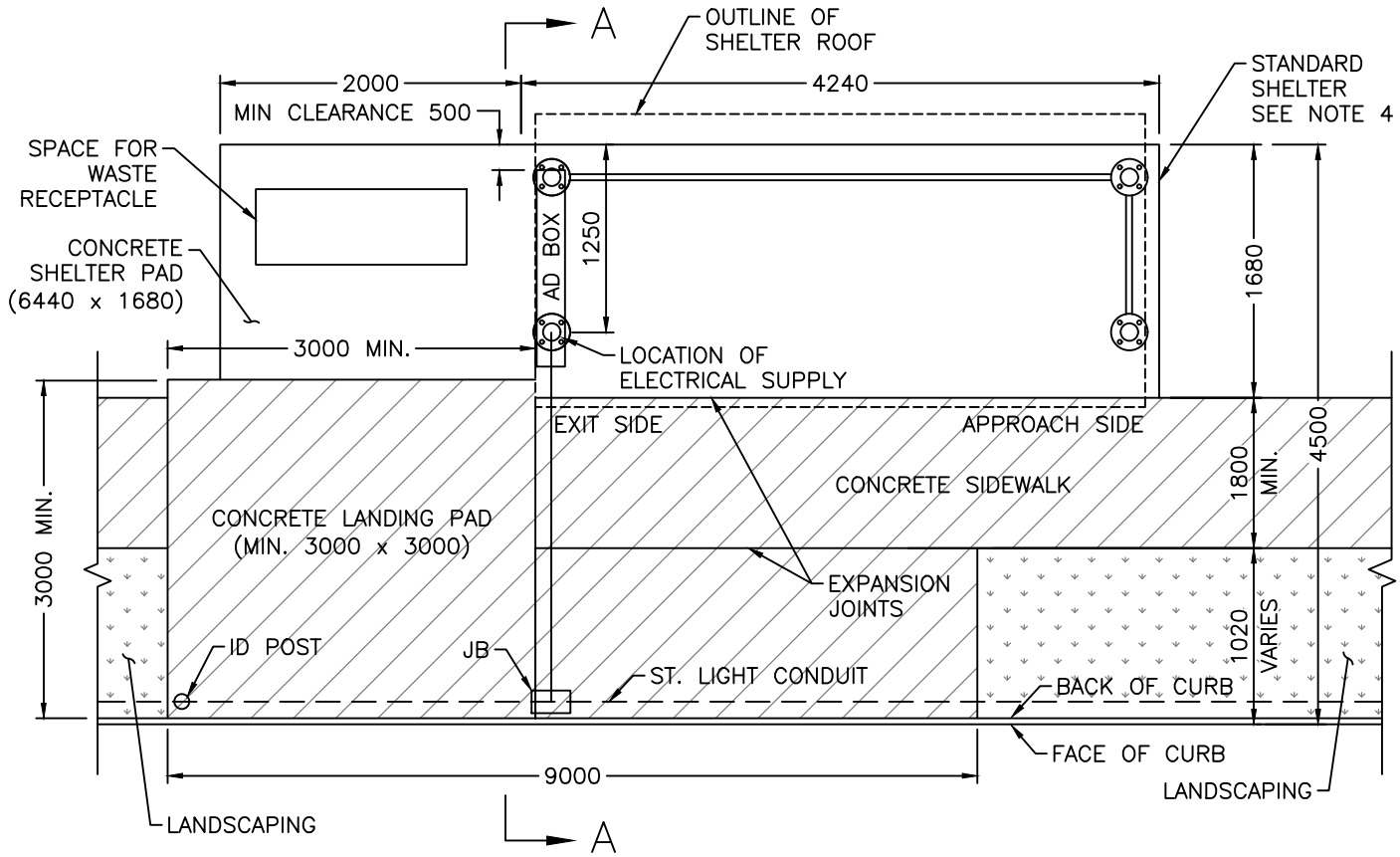
NOTES:
1. AUDIBLE PEDESTRIAN SYSTEMS WILL BE DELIVERED THROUGH APS PUSH BUTTONS.
2. AIM SIGNAL HEADS AS DIRECTED BY THE ENGINEER.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

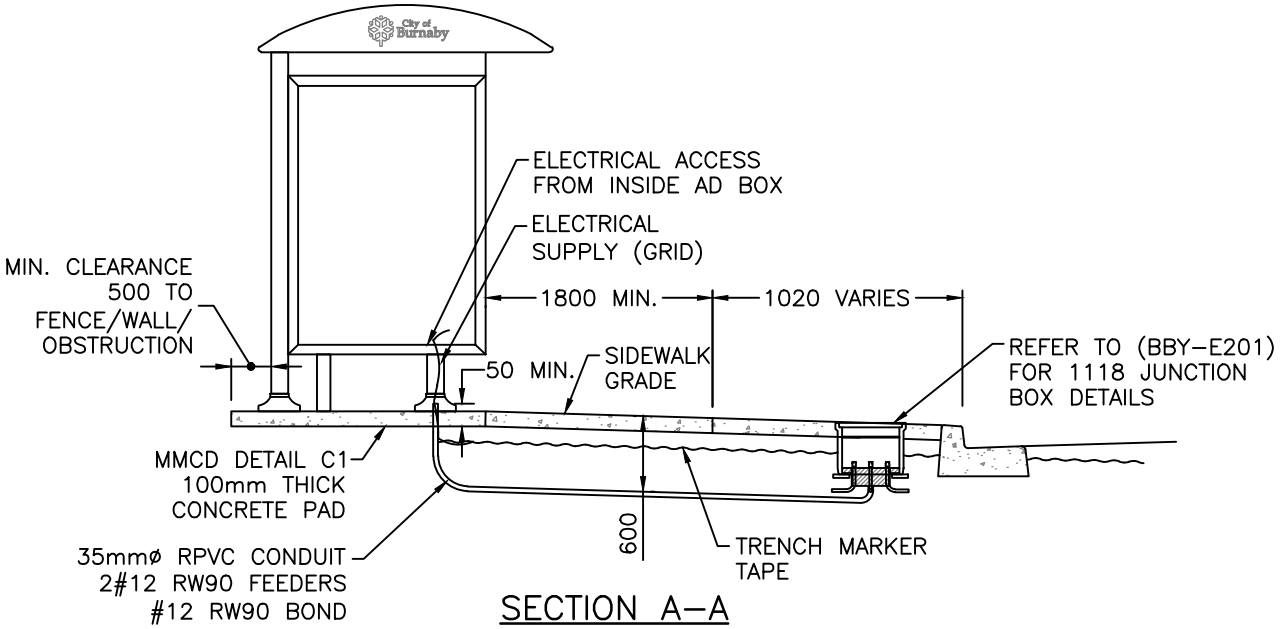
PEDESTRIAN SIGNAL HEAD DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- E115
CHECKED BY:	FL	DATE:	JULY 2026	

2026



BUS STOP PLAN



SECTION A–A
(LEFT ELEVATION)

NOTES:

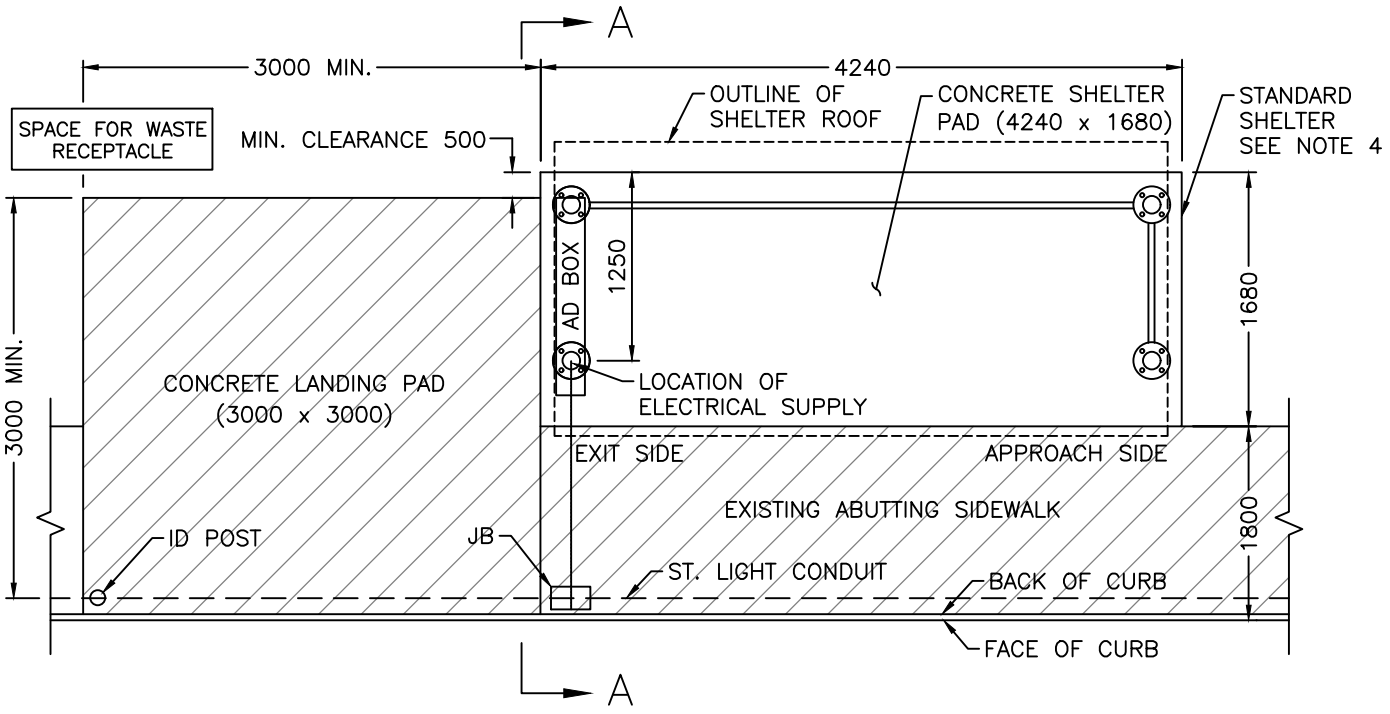
1. CONTACT BURNABY ENGINEERING DEPT. (TRANSPORTATION) FOR LOCATION & DESIGN APPROVAL.
2. CONTACT BURNABY BUILDING DEPT. FOR ELECTRICAL PERMIT & INSPECTION.
3. INSTALL JB IN SINGLE SIDEWALK PANEL. SAW CUT PANEL ONLY ON JOINT LINES.
4. CONTRACTOR TO CONTACT CITY OF BURNABY TRANSPORTATION FOR SHELTER TYPE.
5. FOR TOWN CENTRE SHELTER INSTALLATION DETAILS REFER TO BBY_TC–024.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

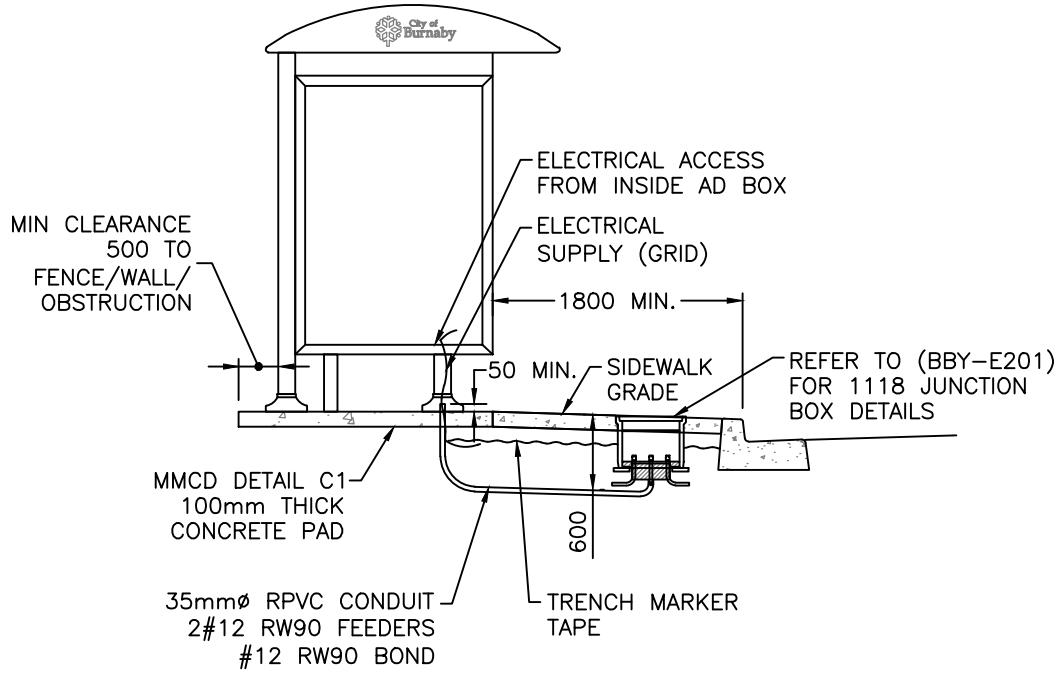
TRANSIT SHELTER INSTALLATION DETAILS SEPARATED SIDEWALK

DRAWN BY:	SM	SCALE:	N.T.S.	**BBY-** E116A
CHECKED BY:	FL	DATE:	JULY 2026	

2026



BUS STOP PLAN



SECTION A–A
(LEFT ELEVATION)

NOTES:
1. CONTACT BURNABY ENGINEERING DEPT. (TRANSPORTATION) FOR LOCATION & DESIGN APPROVAL.
2. CONTACT BURNABY BUILDING DEPT. FOR ELECTRICAL PERMIT & INSPECTION.
3. INSTALL JB IN SINGLE SIDEWALK PANEL. SAW CUT PANEL ONLY ON JOINT LINES.
4. CONTRACTOR TO CONTACT CITY OF BURNABY TRANSPORTATION FOR SHELTER TYPE.
5. FOR TOWN CENTRE SHELTER INSTALLATION DETAILS REFER TO BBY_TC–024.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

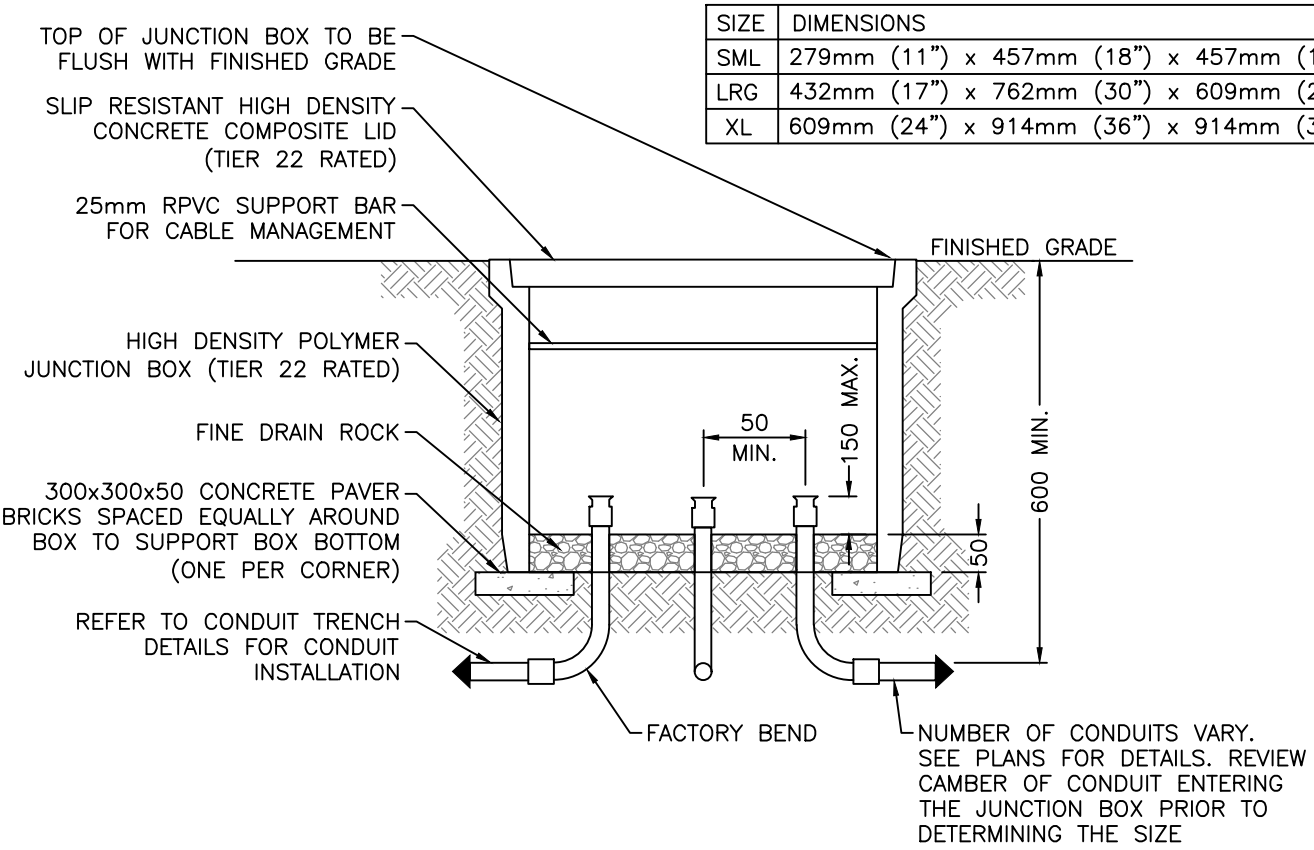
TRANSIT SHELTER INSTALLATION DETAILS EXISTING ABUTTING SIDEWALK

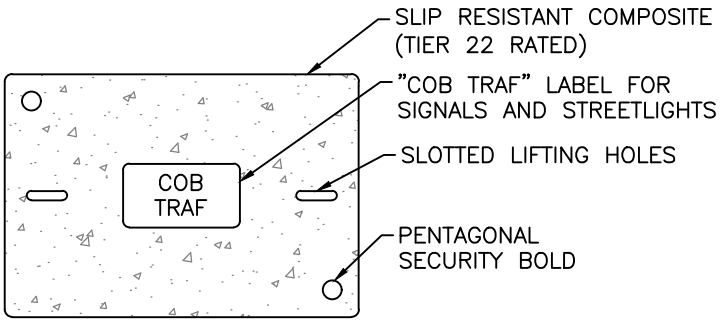
DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	FL	DATE:	JULY 2026

BBY- E116B

2026

SIZE	DIMENSIONS
SML	279mm (11") x 457mm (18") x 457mm (18")
LRG	432mm (17") x 762mm (30") x 609mm (24")
XL	609mm (24") x 914mm (36") x 914mm (36")





NOTES:

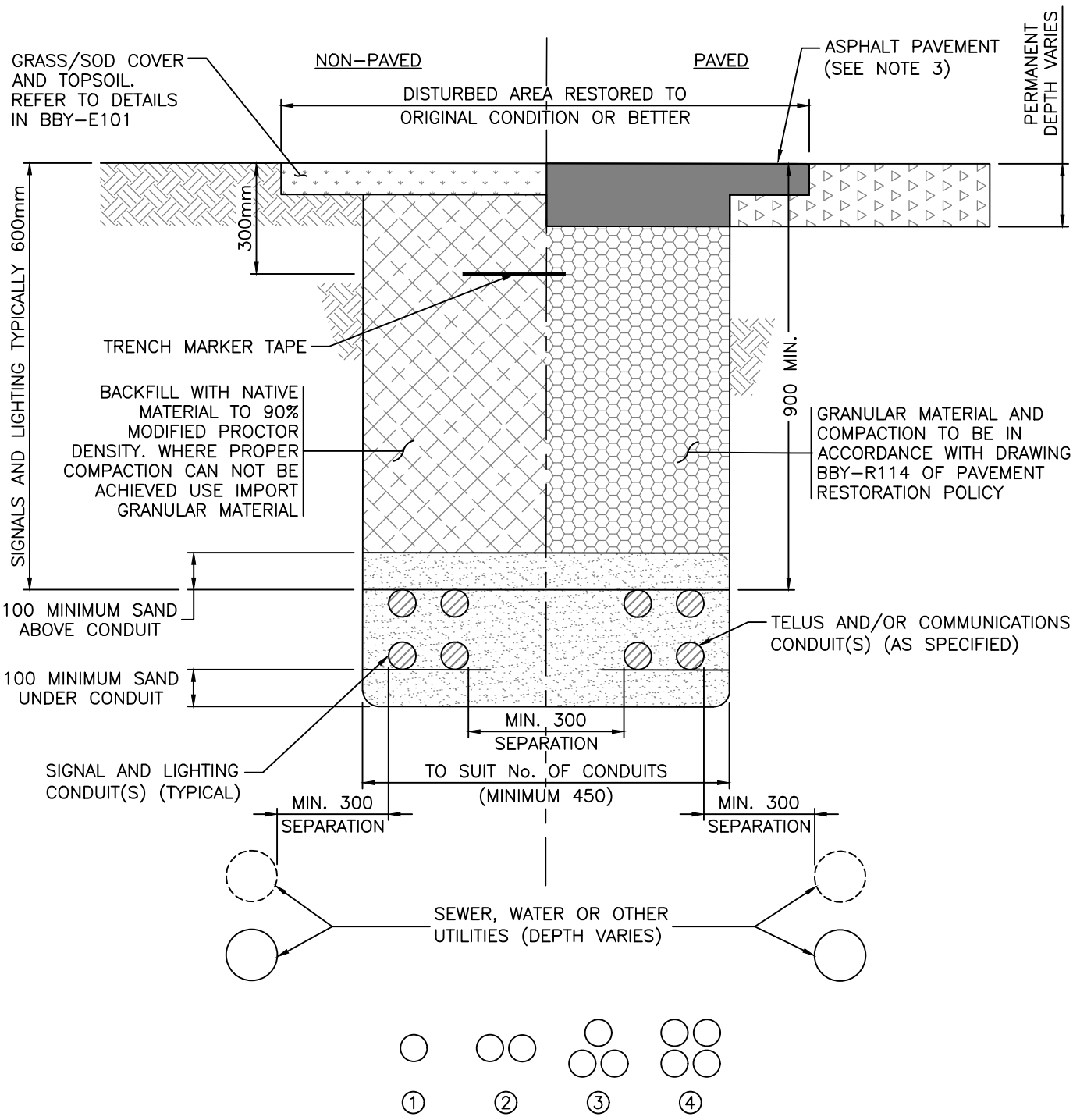
1. REFER TO CONTRACT DRAWINGS, MMCD AND CITY SUPPLEMENTAL SPECIFICATIONS FOR FURTHER INFORMATION.
2. BOX SHALL BE OPEN BOTTOM TYPE. BOX SHALL BE TIER 22 LOADING CAPABLE.
3. BOX LID SHALL BE (ONE OR TWO)–PIECE BOLT DOWN TYPE SUITABLE FOR TIER 22 LOADING.
4. INSTALL LID PRIOR TO BACKFILLING, TAMPING, AND PAVING OPERATIONS.
5. LID HOLD–DOWN BOLTS SHALL BE SPECIAL STAINLESS STEEL TYPE WITH STAINLESS STEEL BOLT HARDWARE ON TOP SECTION OF BOX.
6. INSTALL TOP OF BOX FLUSH WITH FINISHED GRADE. ADJUST AS NECESSARY TO BE FLUSH WITH FINAL SURFACE GRADE.
7. CONDUITS 78mm TRADE SIZE AND SMALLER SHALL ENTER BOX VERTICALLY FROM THE BOTTOM. ALL OTHERS SHALL ENTER HORIZONTALLY THROUGH SHORT SIDES OF BOX WHERE POSSIBLE.
8. ALL CONDUITS SHALL BE TERMINATED WITH BELL END FITTINGS INSIDE THE BOX. ENTRIES SHALL BE SMOOTH/FLUSH TO WALLS WHEN ENTERING SIDES.
9. NO LARGE SECTION OF THE WALLS OF THE JUNCTION BOXES SHOULD BE REMOVED. HOLE DRILLED INTO BOXES SHALL BE IN LOCATION AS PER THE MANUFACTURERS SPECIFICATIONS.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

ELECTRICAL JUNCTION BOXES COMPOSITE

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- E201
CHECKED BY:	FL	DATE:	JULY 2026	

2026



TYPICAL CONDUIT CONFIGURATION

NOTES
1. REFER TO CONTRACT DRAWINGS, SECTION 34 41 13 FOR DETAILED SPECIFICATIONS.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. PAVEMENT REMOVAL AND REPLACEMENT IN EXISTING PAVED AREAS TO BE IN ACCORDANCE WITH DRAWING BBY–R114 OF PAVEMENT RESTORATION POLICY.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TRENCH DETAILS FOR CONDUITS IN PAVED OR NON–PAVED AREAS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- E205
CHECKED BY:	FL	DATE:	JULY 2026	

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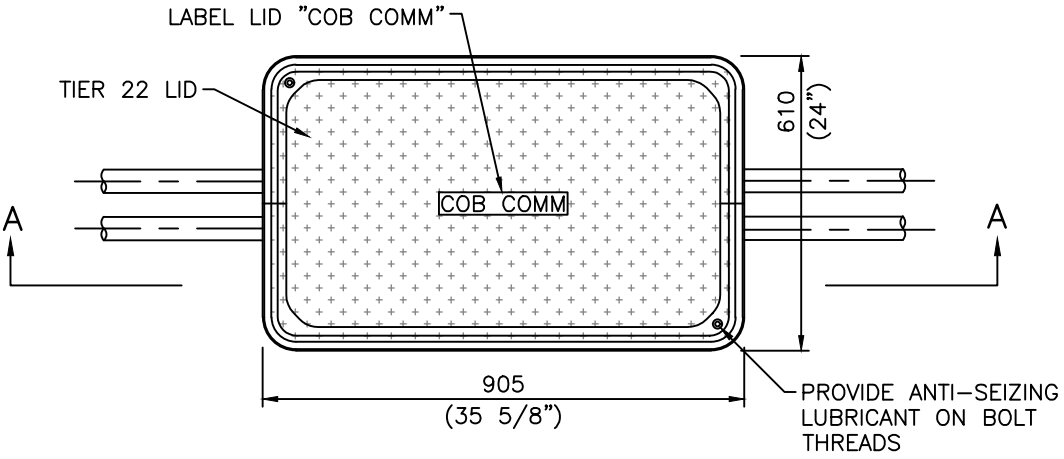
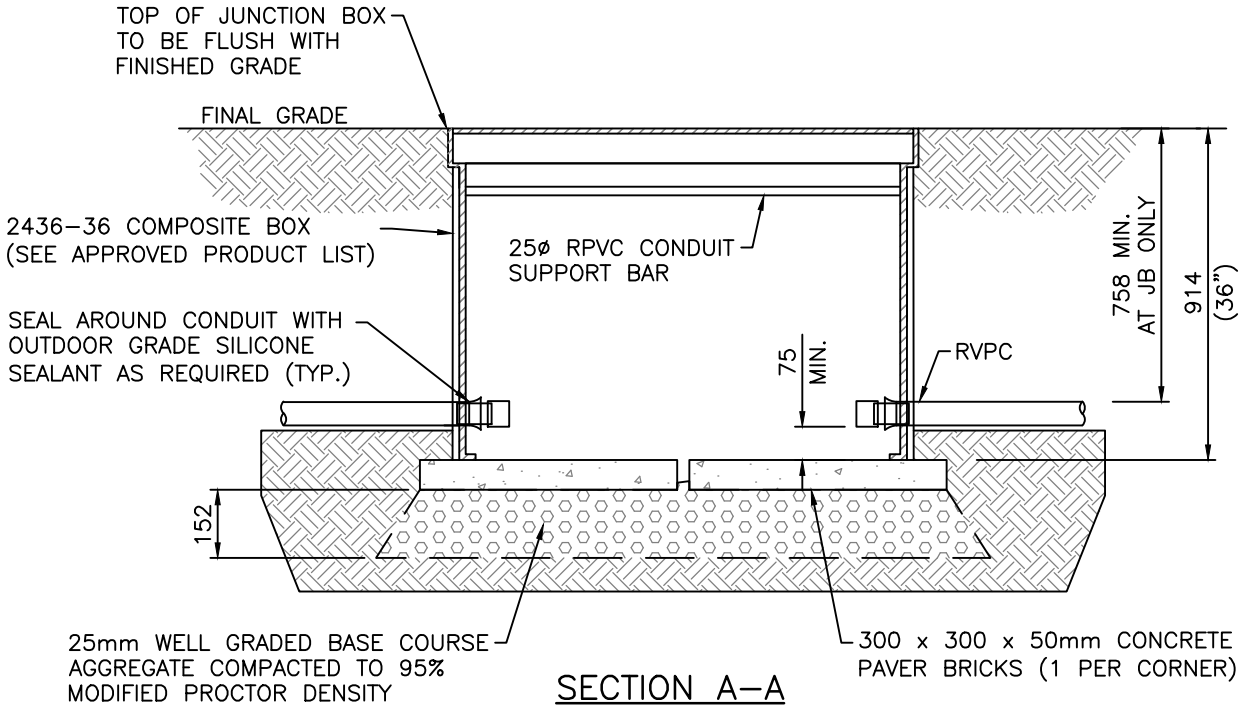


PLAN



SECTION A-A

NOTES:

1. REFER TO CONTRACT DRAWINGS, MMCD AND CITY SUPPLEMENTAL SPECIFICATIONS FOR FURTHER INFORMATION.
2. BOX SHALL BE OPEN BOTTOM TYPE. BOX SHALL BE TIER 22 LOADING CAPABLE.
3. BOX LID SHALL BE (ONE OR TWO)-PIECE BOLT DOWN TYPE SUITABLE FOR TIER 22 LOADING.
4. INSTALL LID PRIOR TO BACKFILLING, TAMPING, AND PAVING OPERATIONS.
5. LID HOLD-DOWN BOLTS SHALL BE SPECIAL STAINLESS STEEL TYPE WITH STAINLESS STEEL BOLT HARDWARE ON TOP SECTION OF BOX.
6. INSTALL TOP OF BOX FLUSH WITH FINISHED GRADE. ADJUST AS NECESSARY TO BE FLUSH WITH FINAL SURFACE GRADE.
7. CONDUITS 78mm TRADE SIZE AND SMALLER SHALL ENTER BOX VERTICALLY FROM THE BOTTOM. ALL OTHERS SHALL ENTER HORIZONTALLY THROUGH SHORT SIDES OF BOX WHERE POSSIBLE.
8. ALL CONDUITS SHALL BE TERMINATED WITH BELL END FITTINGS INSIDE THE BOX. ENTRIES SHALL BE SMOOTH/FLUSH TO WALLS WHEN ENTERING SIDES.
9. NO LARGE SECTION OF THE WALLS OF THE JUNCTION BOXES SHOULD BE REMOVED. HOLE DRILLED INTO BOXES SHALL BE IN LOCATION AS PER THE MANUFACTURERS SPECIFICATIONS.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

COMMUNICATIONS JUNCTION BOX INSTALLATION DETAILS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- E206
CHECKED BY:	FL	DATE:	JULY 2026	

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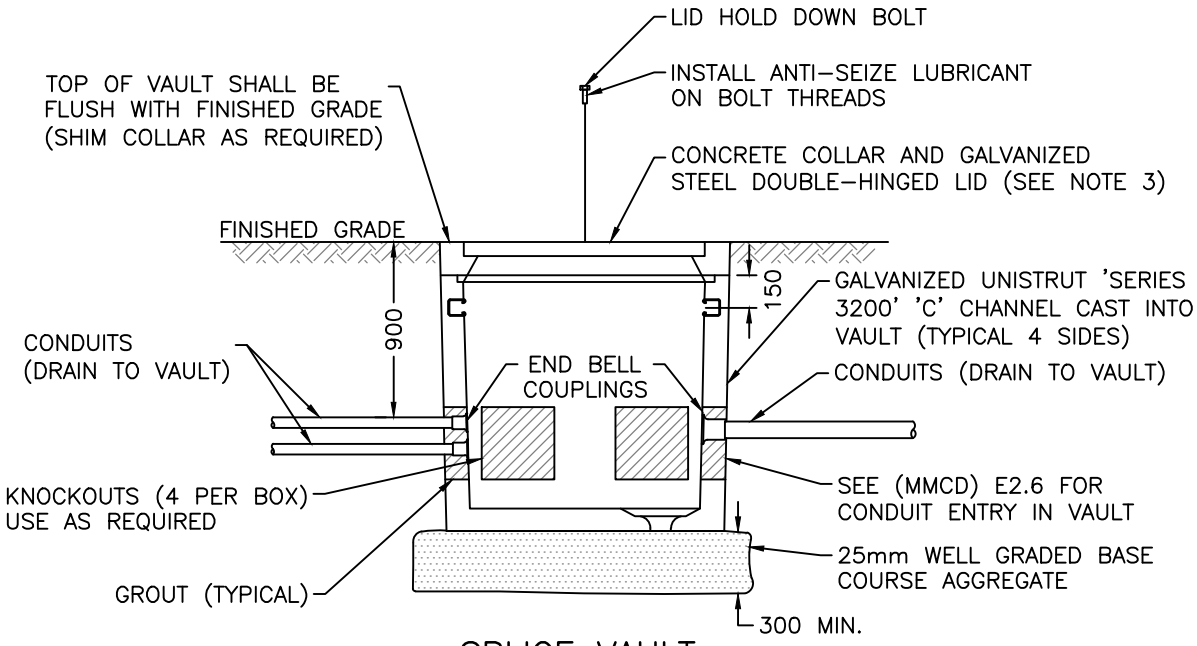
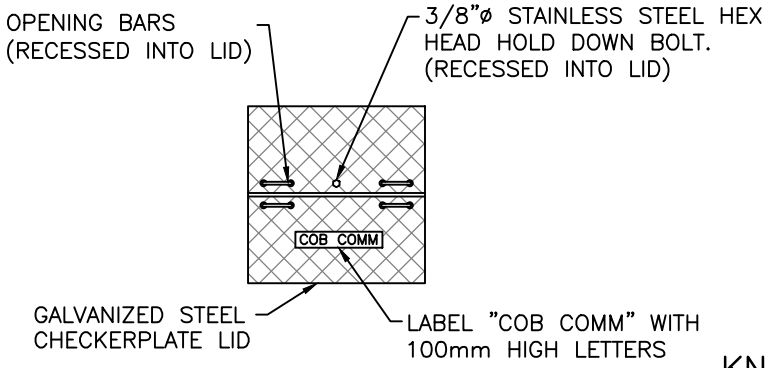
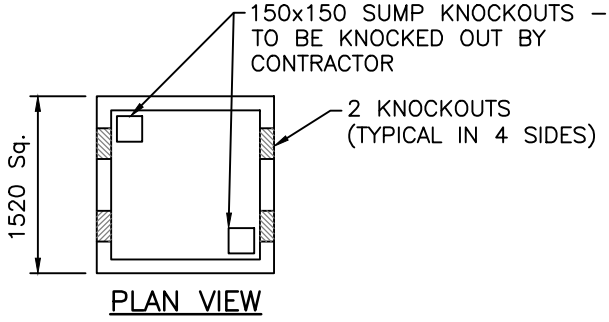


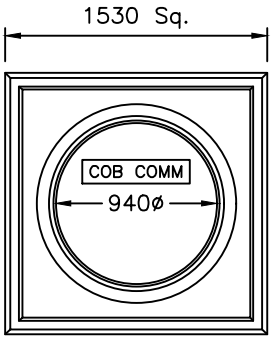
SPLICE VAULT

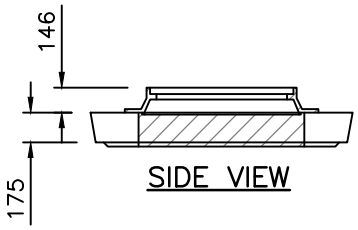


GALVANIZED LID DETAIL
FOR BOULEVARD INSTALLATION ONLY



KNOCKOUT & SUMP LOCATION





MANHOLE LID DETAIL
FOR INSTALLATION IN ROADWAYS AND SIDEWALKS ONLY

NOTES
1. VAULT SHALL BE DESIGNED FOR H-20 STATIC LOADING AND WITH MANHOLE H-20 TRAFFIC LOADING.
2. LIDS SHALL BE SUPPLIED GALVANIZED. MANHOLE LIDS SHALL BE CAST METAL IN ACCORDANCE WITH CITY STANDARDS.
3. MANHOLE LID AND ROOF SLAB REQUIRED FOR INSTALLATION IN ROADWAYS AND SIDEWALKS ONLY.
4. SHALL BE MANUFACTURED IN ACCORDANCE WITH CSA A23.4 AND CERTIFIED TO CPCQA GROUPS: B1, C1*, D1 AND S* GROUP C1 FOR UTILITY VAULTS, SLABS, AND RETAINING WALLS.
5. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

COMMUNICATIONS SPLICE VAULT

DRAWN BY:	SM	SCALE:	N.T.S.
CHECKED BY:	FL	DATE:	JULY 2026

BBY- E207

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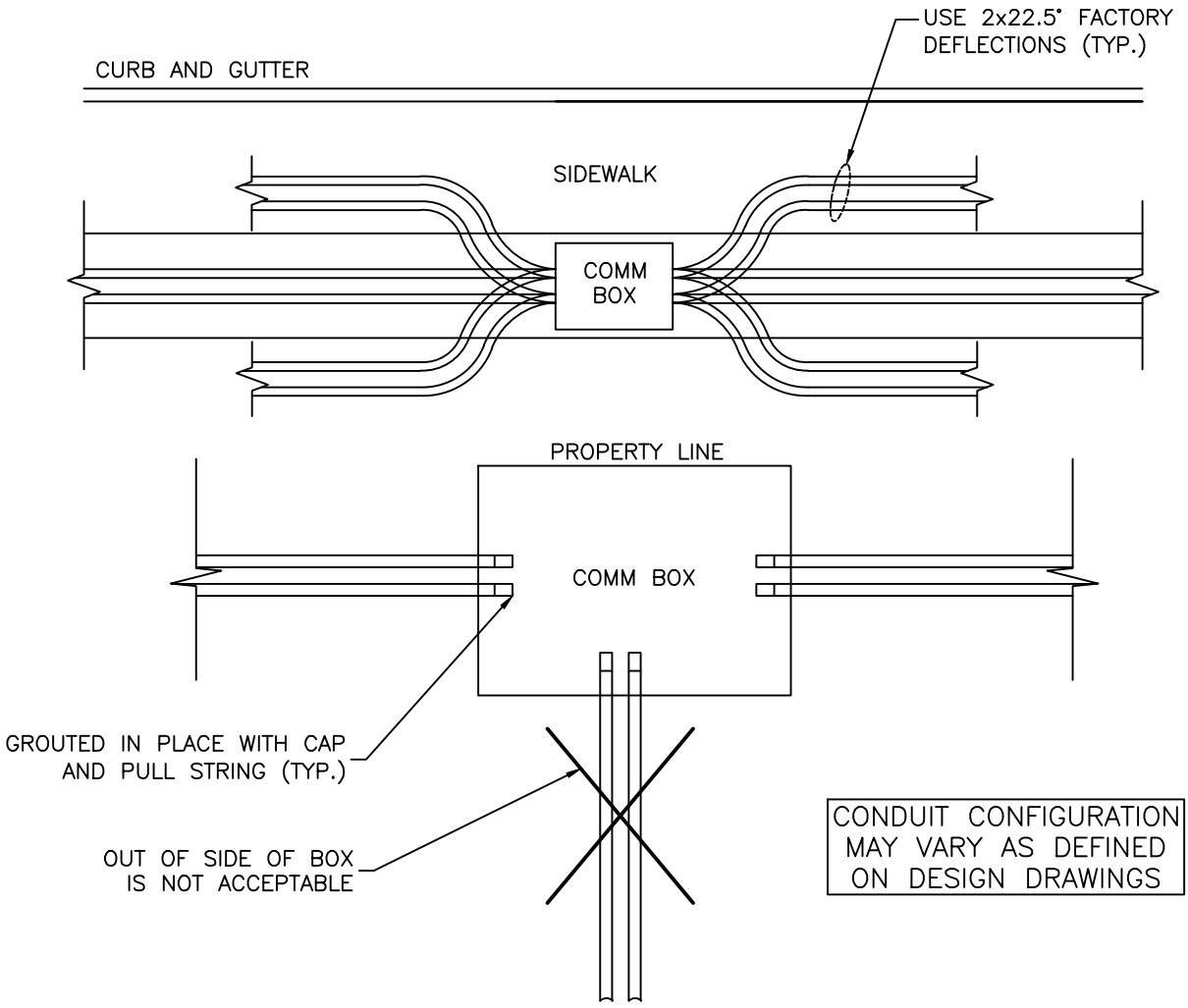

TYPICAL PLAN VIEW

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CONDUIT ROUTING INTO COMMUNICATIONS BOXES / VAULTS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- E208
CHECKED BY:	FL	DATE:	JULY 2026	

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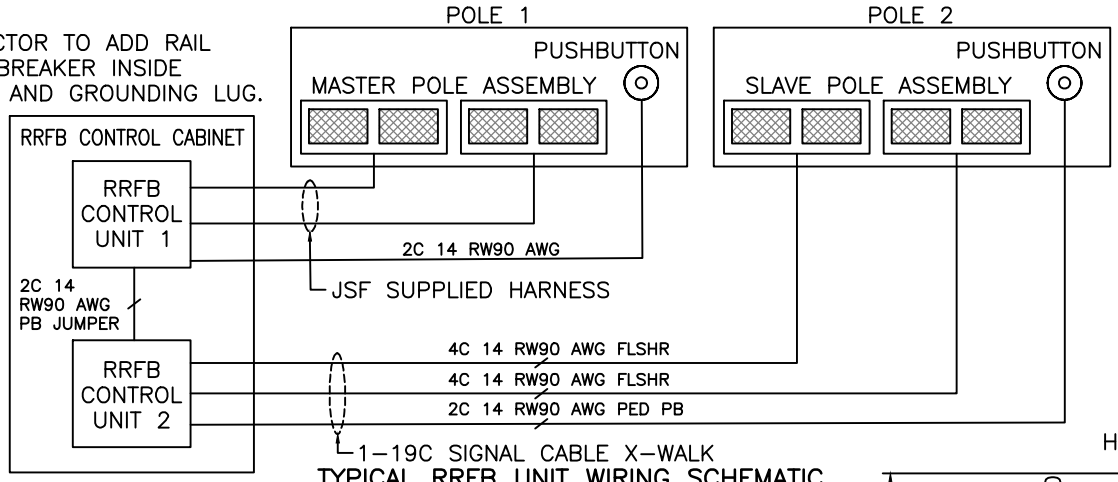
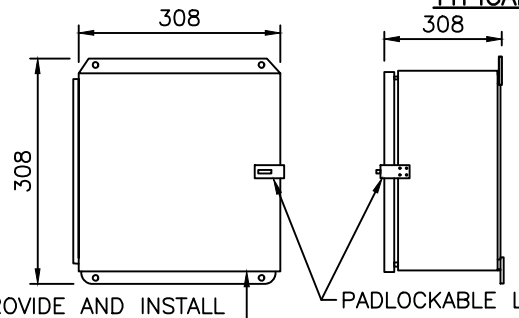
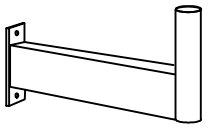
NOTES:
1. CONTRACTOR TO ADD RAIL MOUNT BREAKER INSIDE CABINET AND GROUNDING LUG.



TYPICAL RRFB UNIT WIRING SCHEMATIC

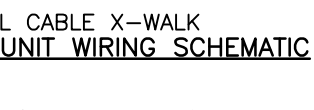


RRFB CONTROL CABINET



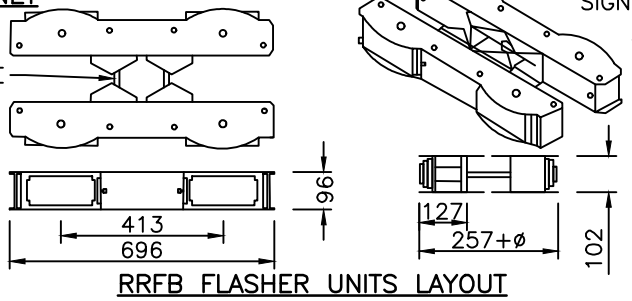
MOUNTING ARMS

THIS DETAIL SHALL APPLY UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS

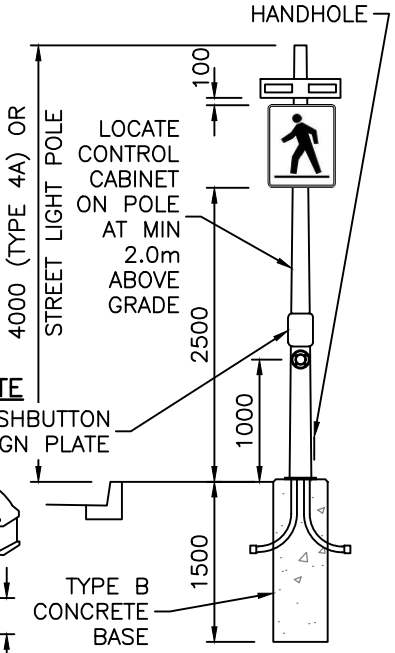


R-10-25-L (230x300) R-10-25-R (230x300)

TYPICAL PUSHBUTTON SIGN PLATE



RRFB FLASHER UNITS LAYOUT



TYPICAL RRFB POLE

NOTES:
1. REFER TO CONTRACT DRAWINGS, MMCD AND CITY SUPPLEMENTAL SPECIFICATIONS FOR FURTHER INFORMATION.
2. TYPICAL RRFB DEVICE AND CONTROL CABINET SHALL BE JSF TECHNOLOGIES 9000 SERIES (AB-9407-AC) COMPLETE WITH 4 LIGHT BARS PER BURNABY SPECIFICATIONS.
3. A LARGER CABINET AND ADDITIONAL LIGHT BARS MAY BE REQUIRED FOR ADVANCED CROSSING CONFIGURATIONS.
4. PUSH BUTTONS SHALL BE POLARA BULLDOG, YELLOW BODY COMPLETE WITH MOMENTARY LATCHING LED AND AUDIBLE TONE. PUSH BUTTON SIGN PLATE SHALL BE POLARA PBF2C-9" X12"-Y. SIGN SHALL READ "PUSH BUTTON TO TURN ON WARNING LIGHTS" AND FINGER SHALL POINT IN DIRECTION OF CROSSING.
5. ADDITIONAL BIKE BUTTONS, SIGNS, AND POSTS MAY BE REQUIRED FOR SHARED CROSSWALK LOCATIONS.
6. PROVIDE PAD LOCK ACCESSORY FOR CONTROL CABINET ACCESS. OBTAIN CITY LOCK FOR USE AT COMPLETION OF COMMISSIONING.
7. CONTRACTOR TO PROVIDE DIN RAIL AND 15A (75DEG) RATED BREAKER FOR INSTALLATION IN CONTROL CABINET.
8. CONTRACTOR SHALL LABEL EACH RRFB CONTROLLER WITH THE POLE LOCATION OF THE LIGHT BARS IT CONTROLS (NORTH, EAST, SOUTH, WEST).
9. THE CALCULATED FLASHER TIME SHALL BE INDICATED ON PLANS USING 1.0m/s WALK SPEED + 7SEC "WALK" TIME. THE CONTRACTOR SHALL SET EACH RRFB CONTROLLER TO THE NEAREST TIME SETTING ROUNDED UP.
10. ADJUST RRFB LED HOUSINGS AND BARS TO FACE ONCOMING VEHICLES AT STOPPING DISTANCE REQUIRED FOR POSTED ROADWAY SPEED LIMIT.
11. RRFB POLES SHALL BE LOCATED IN BOULEVARD AREAS ON THE UPSTREAM SIDE OF TRAFFIC WHERE POSSIBLE OR IMMEDIATELY BEHIND SIDEWALK ALIGNED WITH CROSSWALK WHEN SIDEWALKS ARE ADJACENT TO ROADWAYS. MAINTAIN MIN. 1.2m SIDEWALK WIDTH WHEN POLES MAY NEED TO BE PLACED IN SIDEWALK AREAS.
12. PROVIDE CONCRETE INFILL FOR BUTTON ACCESS 100mm DEEP AND TAPERED NO MORE THAN 45 DEG FROM THE FURTHEST BACK CORNER OF POLE BASE TOWARDS SIDEWALK AND CROSSING LETDOWN.
13. RRFB LIGHT BARS SHALL BE INSTALLED ABOVE CROSSWALK SIGNS ON POLES, ADJUST EXISTING SIGNAGE AS REQ'D.
14. WHERE TREE OBSTRUCTIONS EXIST, A SIDEBAR (MOUNTING ARMS) MAY BE USED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

RRFB CROSSWALK INSTALLATION

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CHECKED BY:	FL	DATE:	JULY 2026

BBY- E401

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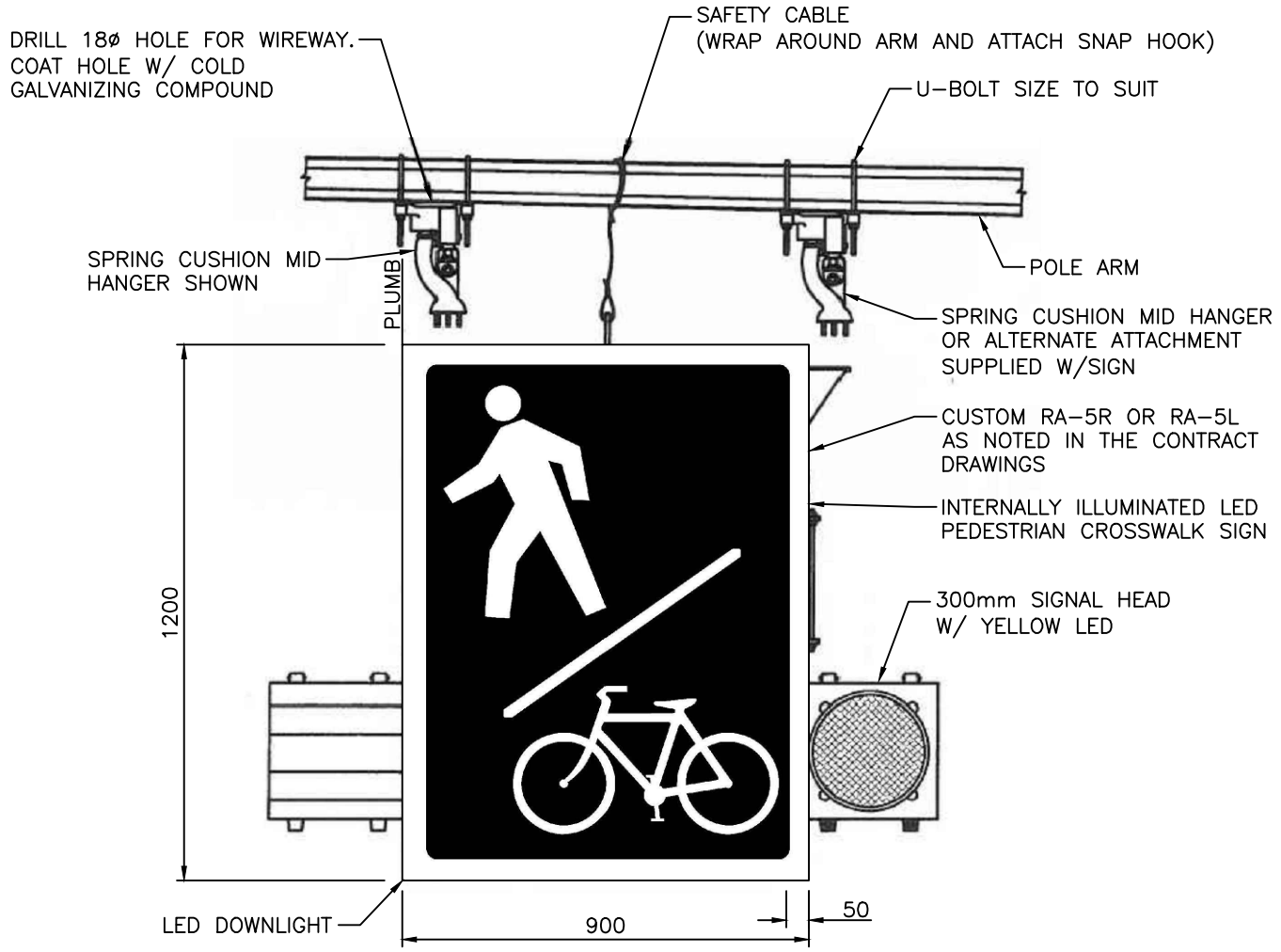
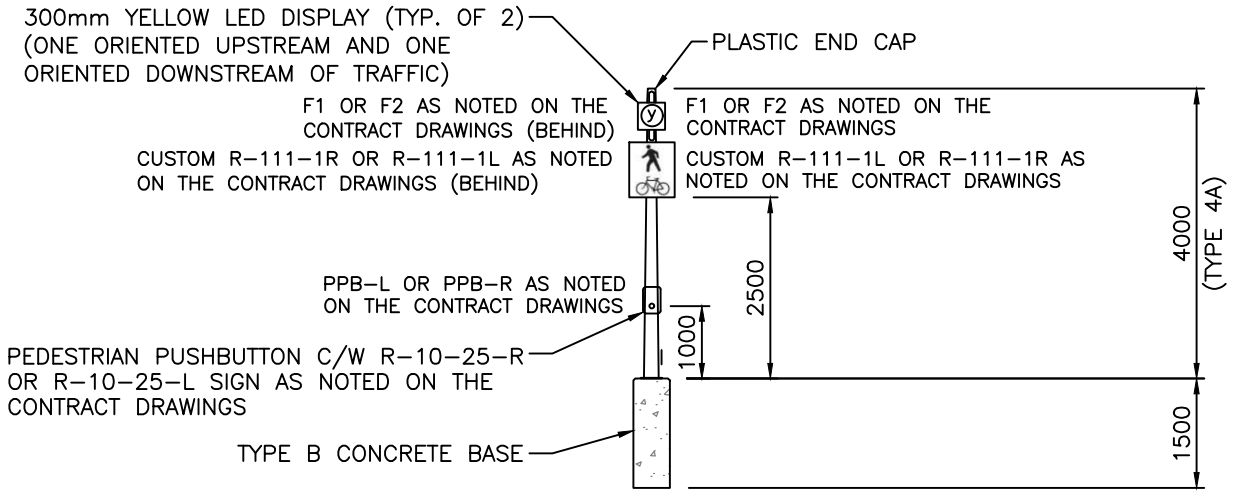


CUSTOM RA-5 INTERNALLY ILLUMINATED CROSSWALK SIGN



FLASHER POLE WITH CUSTOM CROSSWALK SIGN

NOTES:
1. REFER TO MMCD CONTRACT DRAWINGS, SECTION 34 41 13 FOR DETAILED SPECIFICATIONS.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CUSTOM PED/BIKE CROSSWALK SIGN

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- E403C
CHECKED BY:	FL	DATE:	JULY 2026	

2026

PED/BIKE/CROSSWALK – RIGHT – CUSTOM R–111–1R
SIGN (600x750)

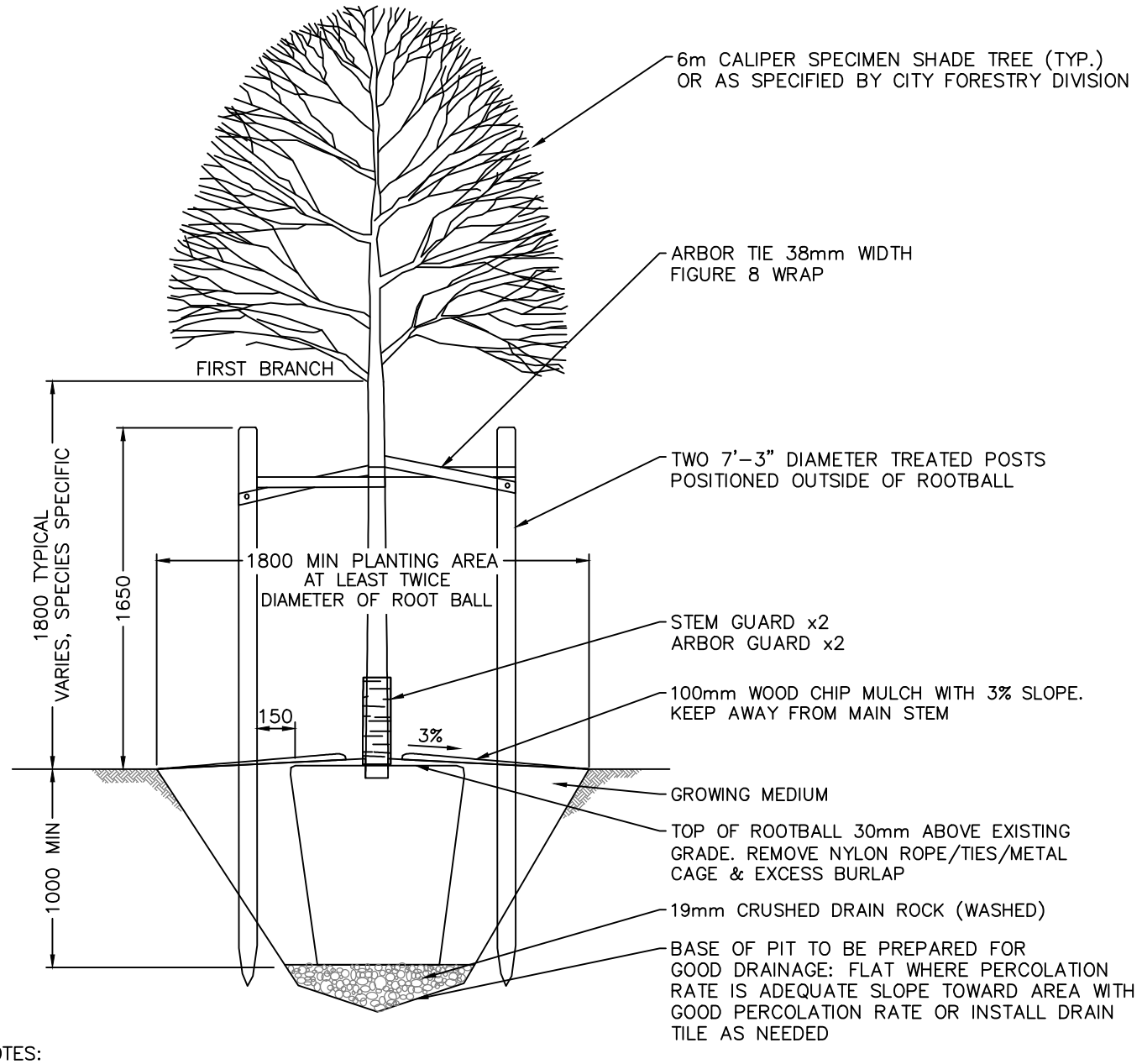
PED/BIKE/CROSSWALK – LEFT – CUSTOM R–111–1L
SIGN (600x750)

SIGNS TO BE TO
MINISTRY SPECIFICATIONS

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

CUSTOM PED/BIKE CROSSWALK SIGNS

DRAWN BY: SM	SCALE: N.T.S.	**BBY-** E403D	2026
CHECKED BY: FL	DATE: JULY 2026		



NOTES:

1. SPECIES, CALIPER AND TYPE OF TREE, AND SPACING OF TREES, MUST BE APPROVED BY THE CITY FORESTRY DIVISION. ENSURE 6m FROM FIRE HYDRANTS, INTERSECTIONS AND LAMP STANDARDS, AND 5m FROM DRIVEWAYS AND PRIVATE CONNECTOR PATHWAYS.
2. INSTALL 450mm DEEP ROOT BARRIER ALONG EDGE OF ADJACENT HARD SURFACES SUCH AS SIDEWALKS AND MULTI–USE PATHS.
3. ALL BACKFILL MATERIAL SHALL BE WEED FREE AND PROVIDE GOOD DRAINAGE AND GAS EXCHANGE, MEETING SPECIFICATIONS IN THE BC LANDSCAPE STANDARDS.
4. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
5. SEE TABLE FOR MINIMUM VOLUME OF DIFFERENT GROWING MEDIUM.

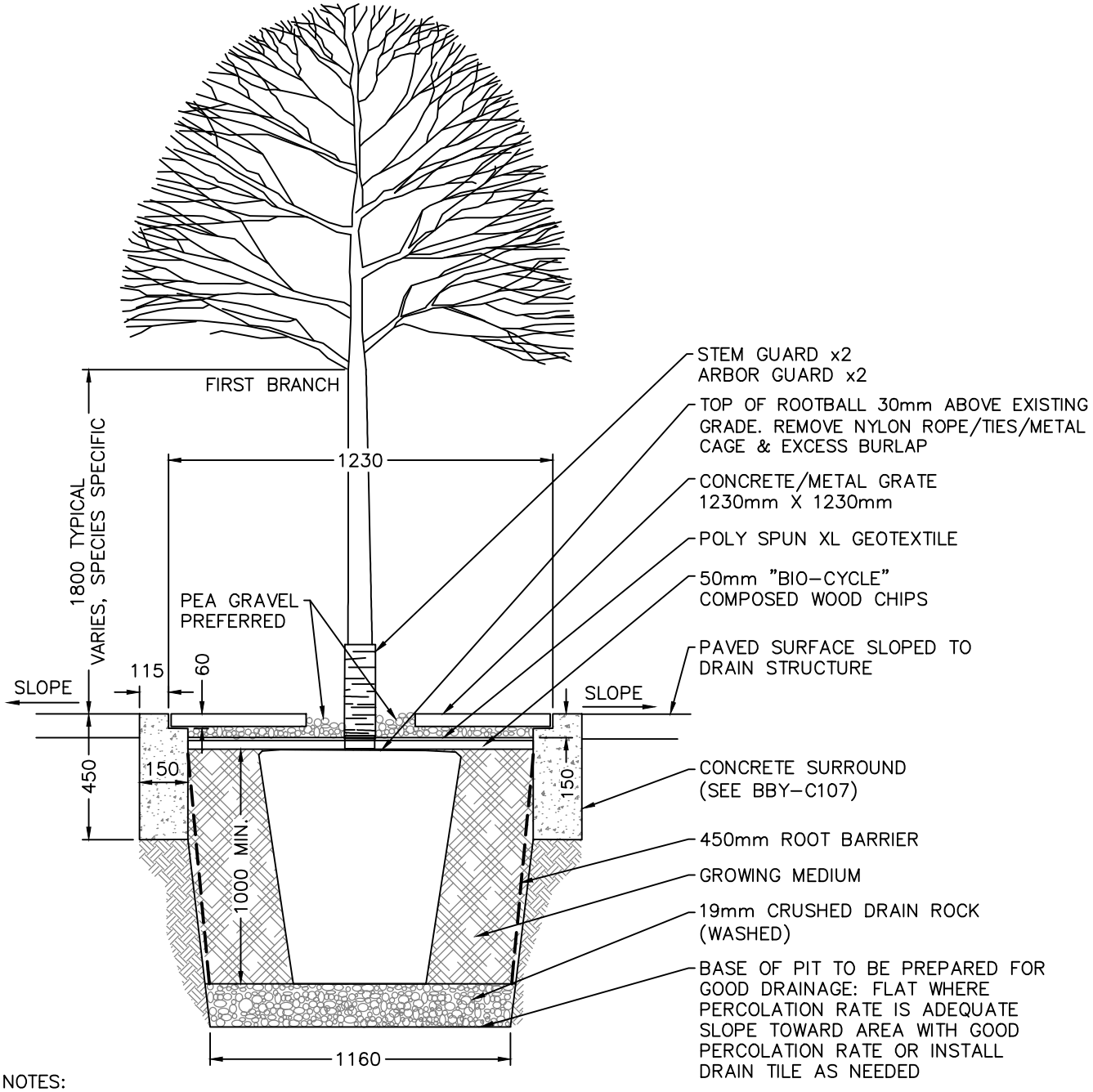
GROWING MEDIUM	SMALL (SPREAD UP TO 6m) (5–9m IN HEIGHT)	MEDIUM (SPREAD UP TO 10m) (10–15m IN HEIGHT)	LARGE (SPREAD > 10m) (>15m IN HEIGHT)	MIN SOIL DEPTH
UNDISTURBED SOIL/CONSERVED TOP SOIL (LOAM BASED)	10–15m² SINGLE TREE 6–15m² SHARED	20–25m² SINGLE TREE 15–20m² SHARED	35–45m² SINGLE TREE 30–35m² SHARED	1m
STRUCTURAL SOILS	UNDISTURBED VOLUME x5	UNDISTURBED VOLUME x5	UNDISTURBED VOLUME x5	
LOAM SOIL & STRUCTURAL SOIL MIX (SINGLE TREE)	5m² LOAM SOIL + 5m² STRUCTURAL SOIL	10m² LOAM SOIL + 25m² STRUCTURAL SOIL	15m² LOAM SOIL + 50–60m² STRUCTURAL SOIL	

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

BOULEVARD TREE PLANTING DETAIL FOR SOFTSCAPE

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- L110
CHECKED BY:	GW	DATE:	JULY 2026	

2026



NOTES:

1. SPECIES, CALIPER AND TYPE OF TREE, AND SPACING OF TREES, MUST BE APPROVED BY THE CITY FORESTRY DIVISION. ENSURE 6m FROM FIRE HYDRANTS, INTERSECTIONS AND LAMP STANDARDS, AND 5m FROM DRIVEWAYS AND PRIVATE CONNECTOR PATHWAYS.
2. ALL BACKFILL MATERIAL SHALL BE WEED FREE AND PROVIDE GOOD DRAINAGE AND GAS EXCHANGE, MEETING SPECIFICATIONS IN THE BC LANDSCAPE STANDARDS.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. SEE TABLE FOR MINIMUM VOLUME OF DIFFERENT GROWING MEDIUM.

GROWING MEDIUM	SMALL (SPREAD UP TO 6m) (5–9m IN HEIGHT)	MEDIUM (SPREAD UP TO 10m) (10–15m IN HEIGHT)	LARGE (SPREAD > 10m) (>15m IN HEIGHT)	MIN SOIL DEPTH
UNDISTURBED SOIL/CONSERVED TOP SOIL (LOAM BASED)	10–15m² SINGLE TREE 6–15m² SHARED	20–25m² SINGLE TREE 15–20m² SHARED	35–45m² SINGLE TREE 30–35m² SHARED	1m
STRUCTURAL SOILS	UNDISTURBED VOLUME x5	UNDISTURBED VOLUME x5	UNDISTURBED VOLUME x5	
LOAM SOIL & STRUCTURAL SOIL MIX (SINGLE TREE)	5m² LOAM SOIL + 5m² STRUCTURAL SOIL	10m² LOAM SOIL + 25m² STRUCTURAL SOIL	15m² LOAM SOIL + 50–60m² STRUCTURAL SOIL	

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

BOULEVARD TREE PLANTING DETAIL FOR HARDSCAPE

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- L111
CHECKED BY:	GW	DATE:	JULY 2026	

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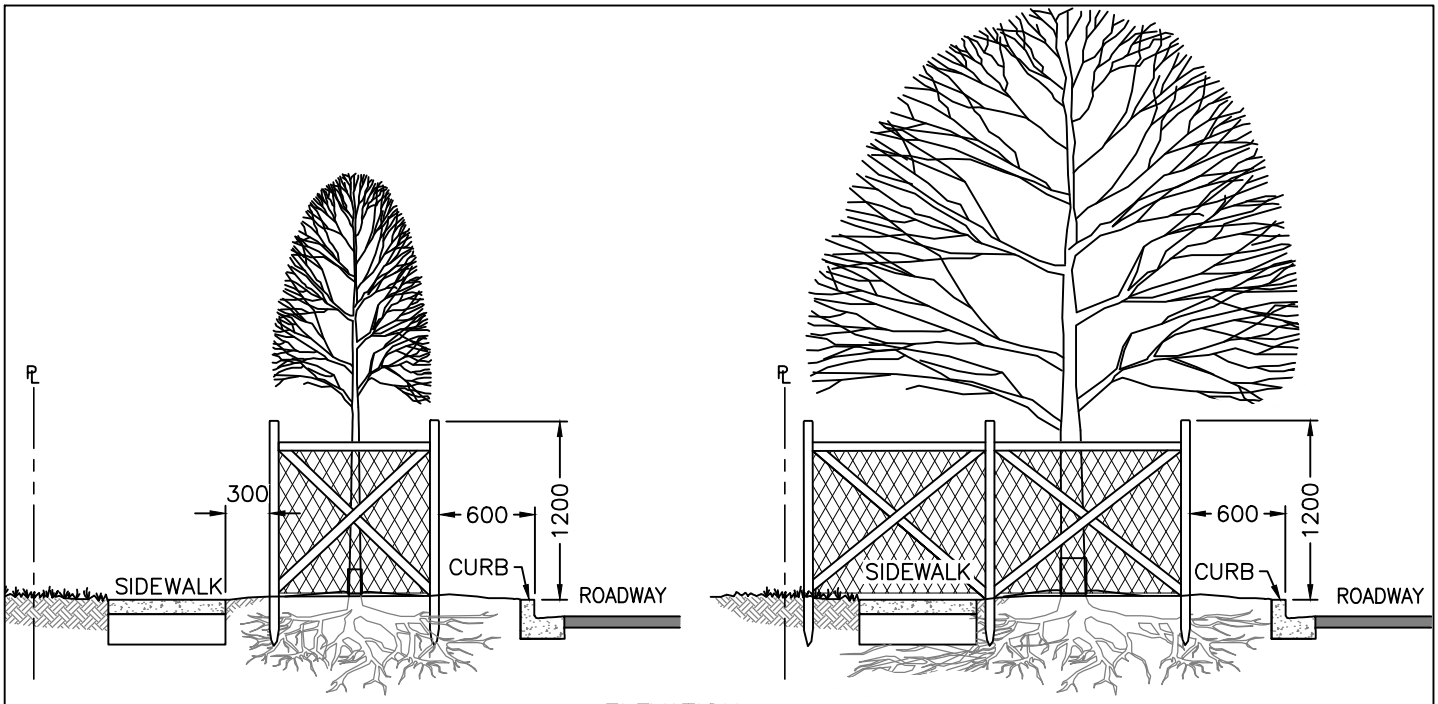
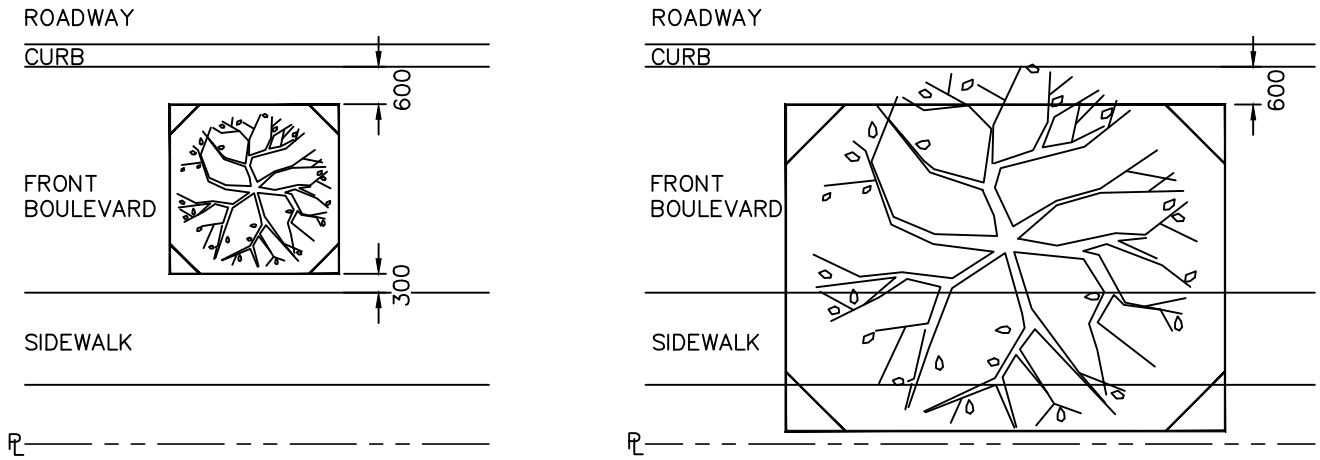


ELEVATION



PLAN

BOULEVARD TREE PROTECTION REQUIREMENTS

ALL TREES IN CITY RIGHT OF WAY ADJACENT TO DEMOLITION/CONSTRUCTION SITES MUST BE PROTECTED FROM ROOT, STEM, AND CROWN DAMAGE.

PROTECTION FENCING MUST BE:

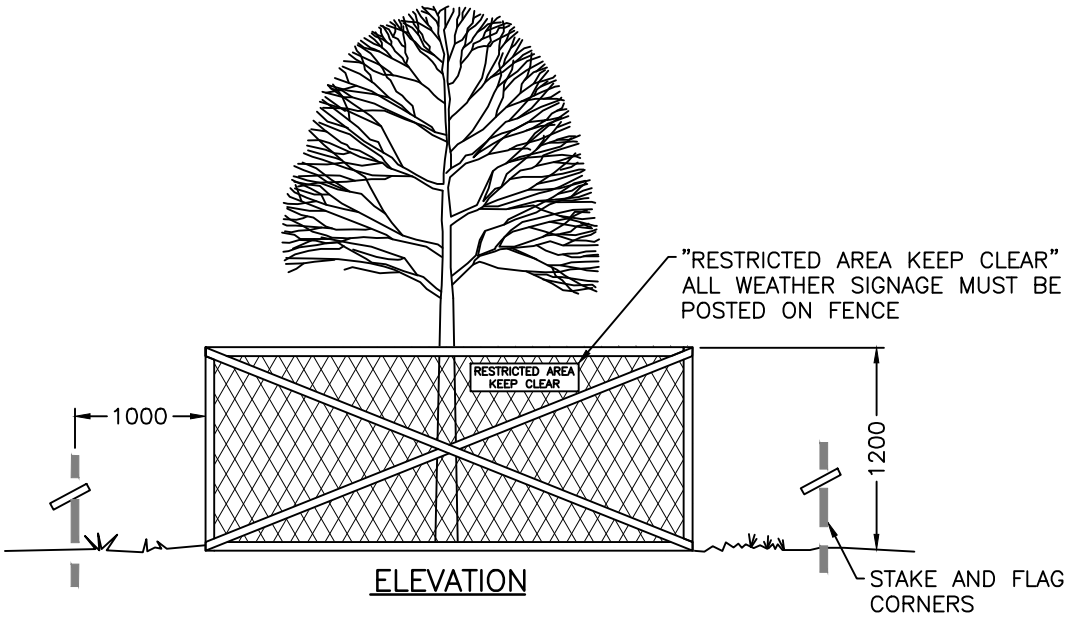
1. HEAVY GAUGE ORANGE "SEE THROUGH" SNOW FENCE. NO MODULOC FENCING.
2. SECURELY ATTACHED TO 2 X 4 WOOD STAKES WHICH SHOULD BE SEPARATED BY NO MORE THAN 2m AND EXTEND TO ABOVE THE HEIGHT OF THE SNOW FENCE.
3. EXTENT FROM GROUND LEVEL TO 1.2m ABOVE GROUND LEVEL (MINIMUM).
4. FOR PLANNING PURPOSES, TREE PROTECTION ZONE TO BE 18xDBH. FORESTRY TO APPROVE FINAL TREE PROTECTION ZONE ONSITE BASED ON TREE SPECIES, CONDITION AND SITE LEVEL RELATED FACTORS. CONFLICTS WITH 18xDBH DOES NOT CONSTITUTE REMOVAL.
5. INSTALLED PRIOR TO DEMOLITION/CONSTRUCTION ACTIVITY. NO SOIL DISTURBANCE.
6. MUST BE RETAINED IN GOOD CONDITION FOR THE FULL TERM OF CONSTRUCTION ACTIVITY
7. NO HOARDING OR GARBAGE IN OR AROUND TREE PROTECTION ZONE. MUST REMAIN FREE OF CONSTRUCTION MATERIALS/DEBRIS.
8. ANY PROPOSED ACTIVITIES INSIDE OF TREE PROTECTION ZONE MUST BE PRE–APPROVED BY CITY FORESTRY DIVISION.
9. AT COMPLETION OF PROJECT, MUST REQUEST APPROVAL FROM CITY FORESTRY DIVISION PRIOR TO DISMANTLING TREE PROTECTION FENCES.
10. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

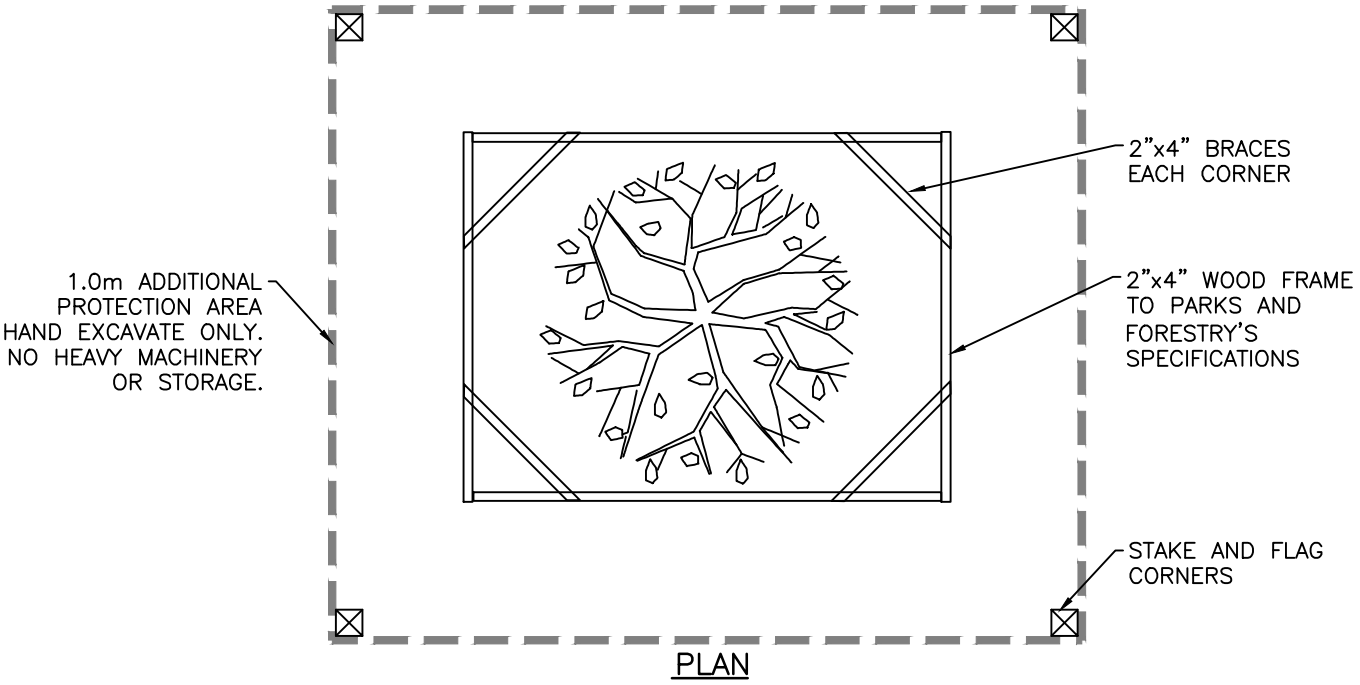
TREE PROTECTION DETAIL IN STREET BOULEVARDS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- L112
CHECKED BY:	GW	DATE:	JULY 2026	

2026



ELEVATION



PLAN

BOULEVARD TREE PROTECTION REQUIREMENTS

ALL TREES ON PUBLIC LAND ADJACENT TO DEMOLITION/CONSTRUCTION SITES MUST BE PROTECTED FROM ROOT, STEM, AND CROWN DAMAGE.

PROTECTION FENCING MUST BE:

1. HEAVY GAUGE ORANGE "SEE THROUGH" SNOW FENCE. NO MODULOC FENCING.
2. SECURELY ATTACHED TO 2 X 4 WOOD STAKES WHICH SHOULD BE SEPARATED BY NO MORE THAN 2m AND EXTEND TO ABOVE THE HEIGHT OF THE SNOW FENCE.
3. EXTENT FROM GROUND LEVEL TO 1.2m ABOVE GROUND LEVEL (MINIMUM).
4. INSTALLED PRIOR TO DEMOLITION/CONSTRUCTION ACTIVITY. NO SOIL DISTURBANCE.
5. MUST BE RETAINED IN GOOD CONDITION FOR THE FULL TERM OF CONSTRUCTION ACTIVITY
6. NO HOARDING OR GARBAGE IN OR AROUND TREE PROTECTION ZONE. MUST REMAIN FREE OF CONSTRUCTION MATERIALS/DEBRIS.
7. ANY PROPOSED ACTIVITIES INSIDE OF TREE PROTECTION ZONE MUST BE PRE-APPROVED BY CITY FORESTRY DIVISION.
8. AT COMPLETION OF PROJECT, MUST REQUEST APPROVAL FROM CITY FORESTRY DIVISION PRIOR TO DISMANTLING TREE PROTECTION FENCES.
9. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

City of Burnaby
ENGINEERING DEPARTMENT
SUPPLEMENTAL STANDARD DETAIL DRAWINGS

TREE PROTECTION DETAIL IN OPEN AREAS

DRAWN BY:	SM	SCALE:	N.T.S.	BBY- L113
CHECKED BY:	GW	DATE:	JULY 2026	

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