

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 2 - APPLICATIONS AND PERMITS (AP-XX)\AP 2.1.DWG

## GRADING PLAN REQUIREMENTS

ITEM REQUIRED	SIZE OF DEVELOPMENT		
	SMALL	MED & LARGE	LARGE SUBDIVISION
LAND USE	REQUIRED	REQUIRED	-
LOT #	REQUIRED	REQUIRED	N/A
CIVIC ADDRESS	REQUIRED	REQUIRED	N/A
LEGAL FOOTPRINT OF EXISTING LOT SHOWING SETBACKS (TO SCALE)	REQUIRED	REQUIRED	N/A
LEGAL FOOTPRINT OF PROPOSED LOTS (TO SCALE)	REQUIRED	N/A	REQUIRED
LEGAL FOOTPRINT OF PROPOSED/EXISTING ROW'S (TO SCALE)	REQUIRED	REQUIRED	REQUIRED
AREA OF BUILDING FOOTPRINT	REQUIRED	REQUIRED	N/A
AREA OF HABITABLE BUILDING SPACE	REQUIRED	REQUIRED	N/A
EXISTING AND PROPOSED GRADES ALONG PROPERTY LINES - MIN. EVERY 5m	REQUIRED	REQUIRED	REQUIRED
EXISTING AND PROPOSED GRADES ALONG BUILDING FACES - MIN. EVERY 5M	REQUIRED	REQUIRED	N/A
AVERAGE LOT ELEVATION - PRE DEVELOPMENT	REQUIRED	REQUIRED	REQUIRED
AVERAGE LOT ELEVATION - POST DEVELOPMENT (SEE NOTE 1)	REQUIRED	REQUIRED	REQUIRED
MAIN FLOOR ELEVATION (SEE NOTE 2)	REQUIRED	REQUIRED	REQUIRED
LOWEST GARAGE/PARKADE ELEVATION (IF APPLICABLE)	REQUIRED	REQUIRED	REQUIRED
100 YEAR GROUNDWATER ELEVATION (SEE NOTE 4)	REQUIRED	REQUIRED	REQUIRED
LOWEST TOP OF FOOTING	REQUIRED	REQUIRED	REQUIRED
FILL BEARING CERTIFICATE - LETTER FROM GEOTECHNICAL ENGINEER	REQUIRED	REQUIRED	REQUIRED
WEEPING TILE REQUIRED - LETTER FROM GEOTECHNICAL ENGINEER	REQUIRED	REQUIRED	REQUIRED
LOWEST INVERT OF WEEPING TILE - AT FOOTING	REQUIRED	REQUIRED	N/A
LOWEST INVERT OF WEEPING TILE - AT DISCHARGE	REQUIRED	REQUIRED	N/A
SANITARY INVERT AT PROPERTY LINE (SEE NOTE 3)	REQUIRED	REQUIRED	REQUIRED
SANITARY INVERT AT BUILDING FACE	REQUIRED	REQUIRED	N/A
STORM INVERT AT PROPERTY LINE (SEE NOTE 3)	REQUIRED	REQUIRED	REQUIRED (IF APPLICABLE)
STORM INVERT AT BUILDING FACE	REQUIRED	REQUIRED	N/A
WATER SERVICE - LOT(S) PRE SERVICED (YES/NO)	YES/NO	YES/NO	YES/NO
CC IN PLACE (YES/NO)	YES/NO	YES/NO	YES/NO
DIAMETER OF WATER SERVICE	REQUIRED	REQUIRED	REQUIRED
GROUNDWATER CONTOUR ELEVATIONS 0.5m ELEVATIONS	NO	NO	REQUIRED
NOTE 1 - FOR BUILDING FOOTPRINT, TAKE ELEVATION OF UNDERSIDE OF LOWEST SLAB			
NOTE 2 - MAIN FLOOR ELEVATION WILL BE DICTATED AT SUBDIVISION STAGE, GRAVITY SERVICING WILL BE REQUIRED FOR THIS ELEVATION			
NOTE 3 - SUBDIVISIONS WILL BE REQUIRED TO PROVIDE INVERTS AT PROPERTY LINE FOR ALL LOTS, DEVELOPMENTS WILL BE REQUIRED TO REFERENCE SUBDIVISION PLAN			
NOTE 4 - ALL PLANS (ARCH, CIVIL AND LEGAL), MUST BE CLEAR WHEN SPECIFYING THE 100 YEAR GWL. THE DRAWING REFERENCED SHOULD BE STATED			

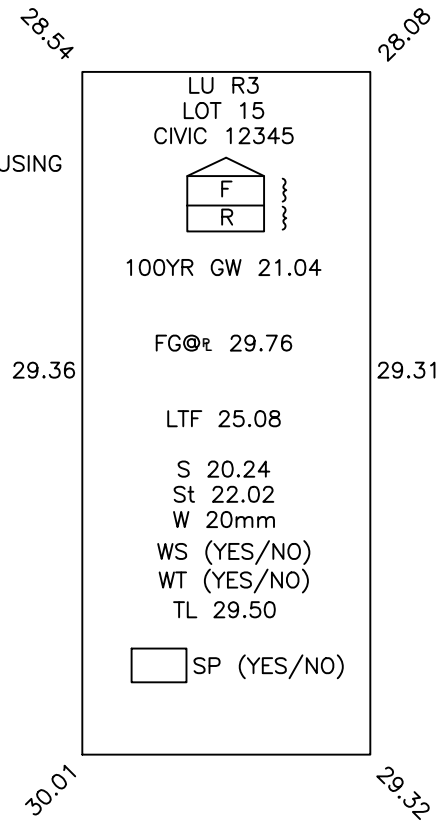
All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	<b>GRADING PLAN REQUIREMENTS</b>
4						CHECKED BY: B. BIRCH		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB			SCALE: N/A
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		

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## SAMPLE ELEVATIONS


- R REAR ELEVATION
- LAND USE
- LOT #
- CIVIC ADDRESS
- MAXIMUM BUILDING HEIGHT ELEVATION AS CALCULATED USING TOWN LAND USE BYLAW ( F = FRONT, R = REAR ) }
  
- 100YR GROUNDWATER ELEVATION
- GRADES AT CORNERS OF PROPERTY AND AT MIDPOINTS WHERE LENGTHS GREATER THAN 10M
- RECOMMENDED FRONT GRADE AT HOUSE
- MID-LOT GRADE AT PROPERTY LINE
  
- LOWEST TOP OF FOOTING
  
- SANITARY INVERT AT STUB
- STORM INVERT AT STUB (IF APPLICABLE)
- DIAMETER OF WATER SERVICE (SEE NOTE 1.)
- WATER SERVICE (COILED & BOXED) (Y OR N)
- WEEPING TILE TO STORM (IF APPLICABLE)
- TRAPPED LOW MAX. ELEVATION (IF APPLICABLE)
  
- SUMP PUMP REQUIRED (Y OR N)
  
- DRAINAGE FEATURES (BERMS, SWALE, ETC)
- DRIVEWAY LOCATION
- FRONT ELEVATION (IF APPLICABLE)



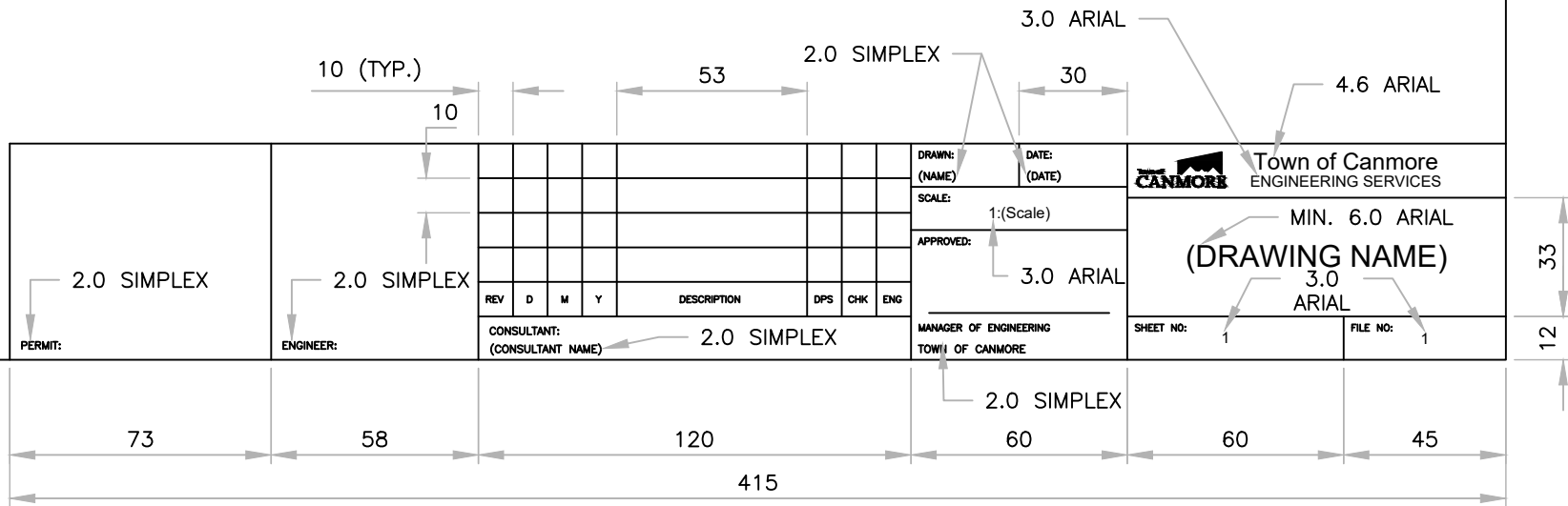
### NOTES

1. LOTS REQUIRING PRESSURE REDUCTION TO BE DESIGNATED BY ADDING P.R. IMMEDIATELY AFTER THE SERVICE SIZE (I.E. W 20 MM P.R.).
2. LETTER FROM GEOTECHNICAL ENGINEER WILL BE REQUIRED IF WEEPING TILE IS NOT INSTALLED.
3. FILL BEARING CERTIFICATE REQUIRED FOR ALL LOTS.
4. DEVELOPERS ARE ENCOURAGED TO ADD ADDITIONAL INFORMATION WHERE NEEDED FOR GUIDANCE AND CLARITY.

  
 All dimensions in meters unless otherwise noted

5	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	DRAWN: B. MORVAN	DATE: AUG 2019	 <b>BUILDING GRADE PLAN - MINIMUM REQUIREMENTS</b>	
4	05/07/10	2010 EDCG Standards	SP	PN	PN	CHECKED BY: B. BIRCH			
3	11/29/04	2005 Engineering Design Standards	PL	OR	OR	APPROVED:			
2	03/17/00	2000 Engineering Design Standards	MAR	DAB	DAB				
1	05/05/98	1998 Engineering Design Standards	KRB	KRB	DRJ				
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS	FIGURE NO.: AP 2.2

DRAWING\_NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 2 - APPLICATIONS AND PERMITS (AP-XX)\AP 2.3.DWG



**NOTES**

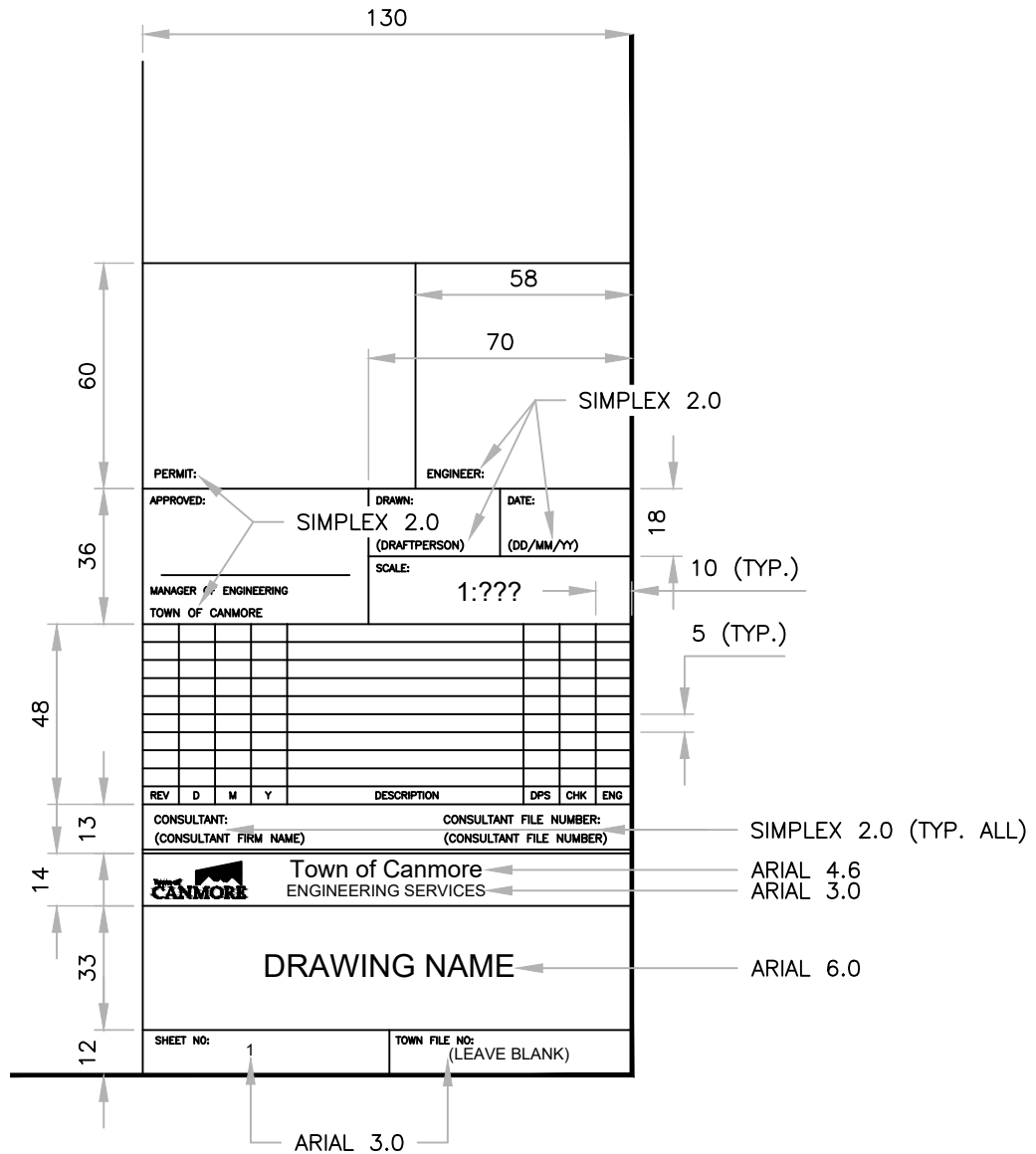
1. ALL TEXT TO BE SIMPLEX STYLE, HEIGHT 1.8 EXCEPT WHERE NOTED. DIMENSIONS IN MILLIMETRES.
2. DIGITAL COPIES IN AUTOCAD FORMAT CAN BE OBTAINED BY CONTACTING THE ENGINEERING DEPARTMENT AT 403 678 1548

All dimensions in meters unless otherwise noted

5									DRAWN: B. MORVAN	DATE: AUG 2019	 <b>DRAWING TITLE BLOCK SPECIFICATIONS-HORIZONTAL LAYOUT</b> SCALE: 1:2      FIGURE NO.: AP 2.3
4	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	CHECKED BY: B. BIRCH					
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	APPROVED:					
2	03/17/00	2000 EDCG STANDARDS	MAR	DAB	DAB						
1	05/05/98	1998 EDCG STANDARDS	KRB	KRB	DRJ						
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE					

Town of Canmore  
**Engineering Design & Construction Guidelines**

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**NOTES**

1. ALL TEXT TO BE SIMPLEX STYLE, HEIGHT 1.8 EXCEPT WHERE NOTED. DIMENSIONS IN MILLIMETRES.
2. DIGITAL COPIES IN AUTOCAD FORMAT CAN BE OBTAINED BY CONTACTING THE ENGINEERING DEPARTMENT AT 403 678 1548

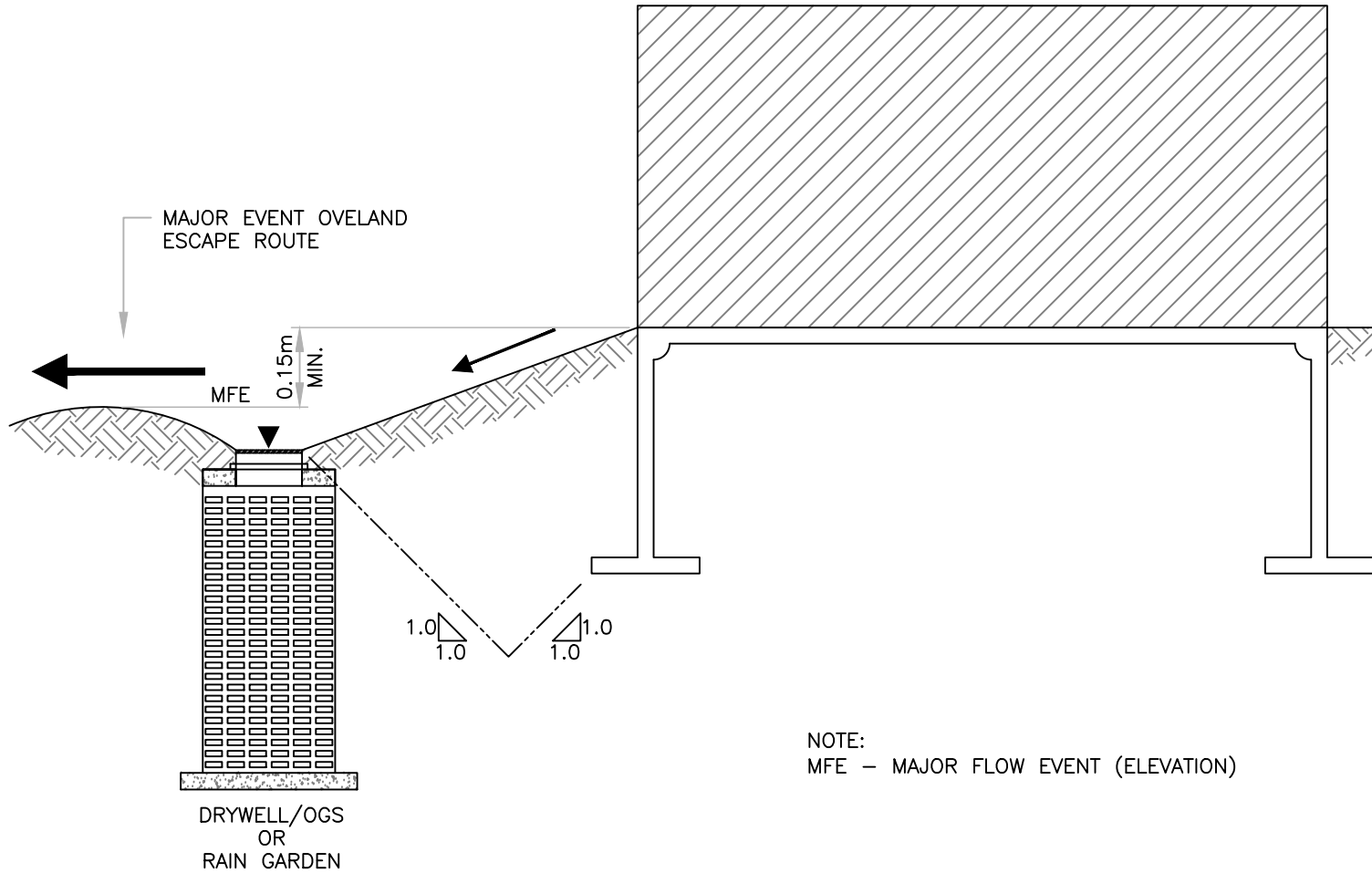
All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	<p><b>DRAWING TITLE BLOCK SPECIFICATIONS- VERTICAL LAYOUT</b></p>
4	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	B. MORVAN	AUG 2019	
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	CHECKED BY: B. BIRCH		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB	APPROVED:		
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ	MANAGER OF ENGINEERING TOWN OF CANMORE		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	SCALE: 1:2		FIGURE NO.: AP 2.4

Town of Canmore  
**Engineering Design & Construction Guidelines**



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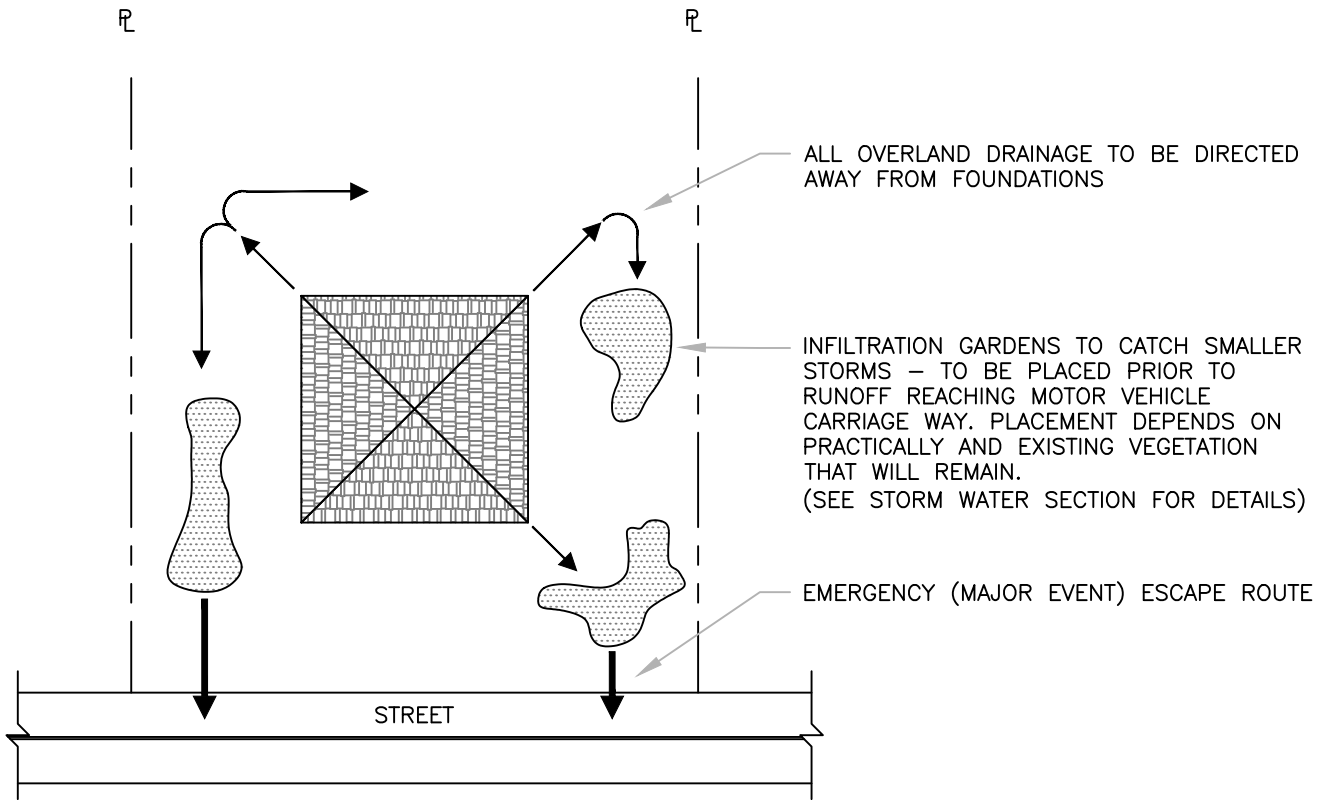


NOTE:  
MFE – MAJOR FLOW EVENT (ELEVATION)

All dimensions in meters unless otherwise noted


5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>OVERLAND ESCAPE ROUTE</b>
4					CHECKED BY: B. KINZIE			
3					APPROVED:			
2					MANAGER OF ENGINEERING TOWN OF CANMORE			
1	08/14/19	2019 EDCG STANDARDS	BWM	BK	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	SCALE: NTS	FIGURE NO.: GRD 3.1	

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 3 - SITE GRADING AND DRAINAGE (GRD XX)\GRD 3.2.DWG



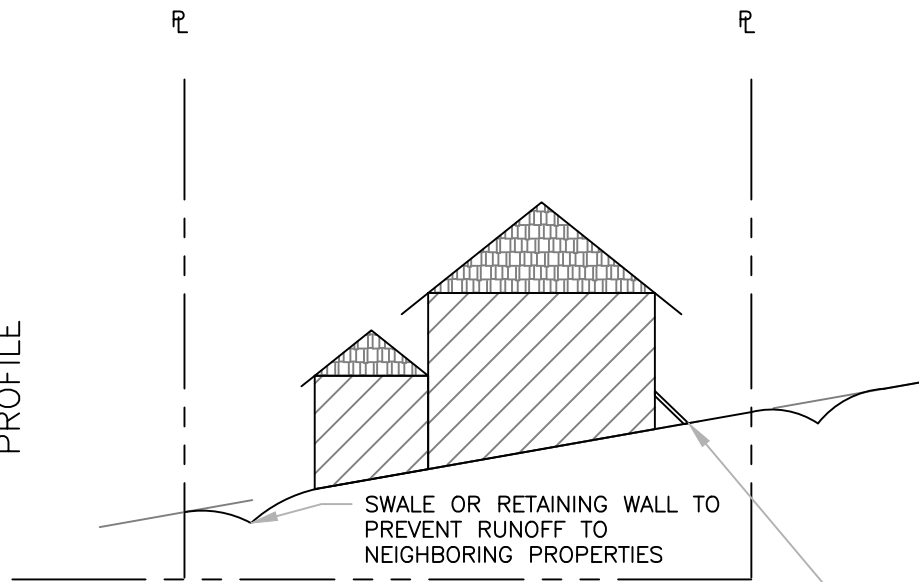
All dimensions in meters unless otherwise noted



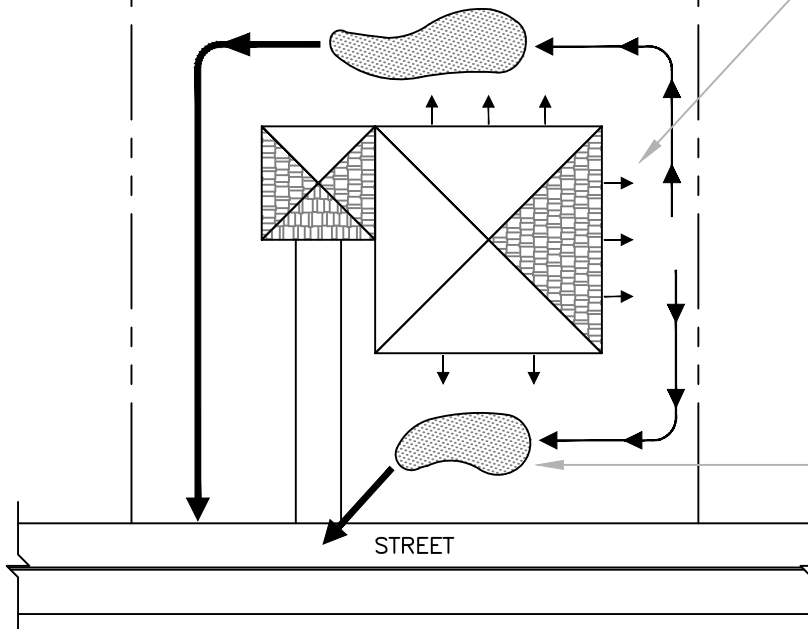
5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>LOTS IN VALLEY BOTTOM: GENERAL GRADING</b>
4						CHECKED BY: B. KINZIE		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	BK	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: GRD 3.2

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PROFILE



PLAN




ALL OVERLAND DRAINAGE TO BE DIRECTED AWAY FROM FOUNDATIONS

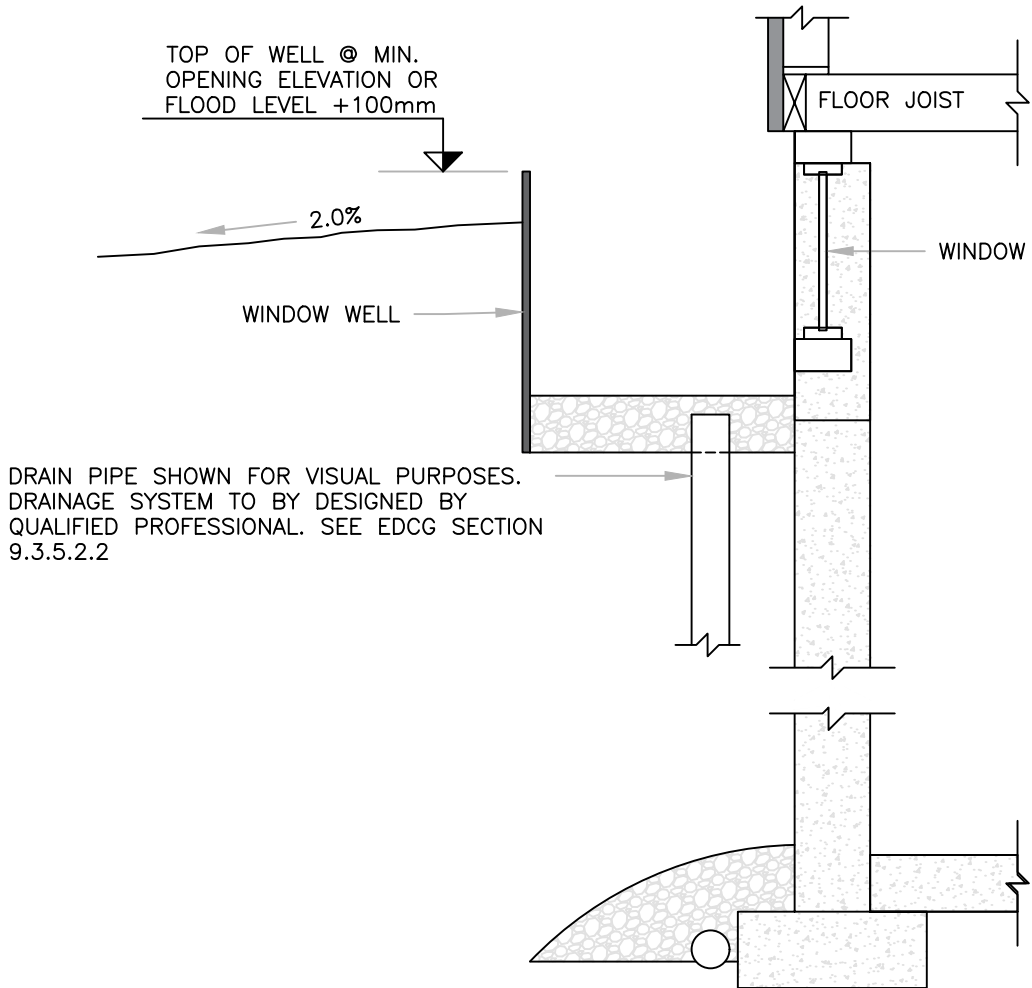
INFILTRATION GARDENS (IF PRACTICAL) TO CATCH SMALLER STORMS - TO BE PLACED PRIOR TO RUNOFF REACHING MOTOR VEHICLE CARRIAGE WAY. (SEE STORMWATER SECTION FOR DETAILS)

All dimensions in meters unless otherwise noted




5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>LOTS ON SLOPE: GENERAL GRADING</b>
4					CHECKED BY: B. KINZIE			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	BK	CB	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			FIGURE NO.: GRD 3.3

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 3 - SITE GRADING AND DRAINAGE (GRD XX)\GRD 3-4.DWG

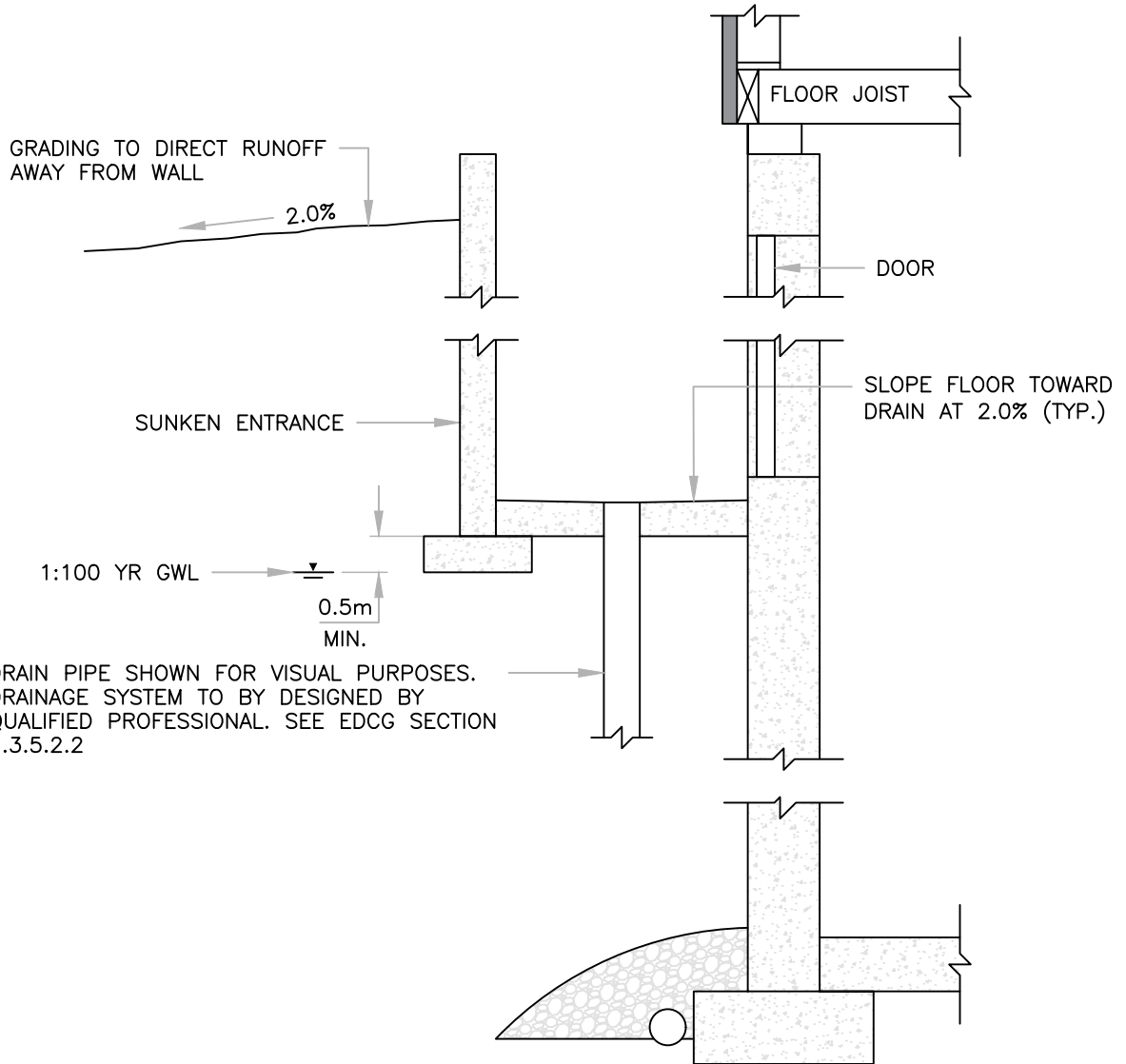


All dimensions in meters unless otherwise noted




5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>Town of CANMORE</b> <b>WINDOW WELL DRAIN</b>
4					CHECKED BY: F. CAMIRE			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	FC	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: GRD 3.4

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 3 - SITE GRADING AND DRAINAGE (GRD XX)\GRD 3.5.DWG

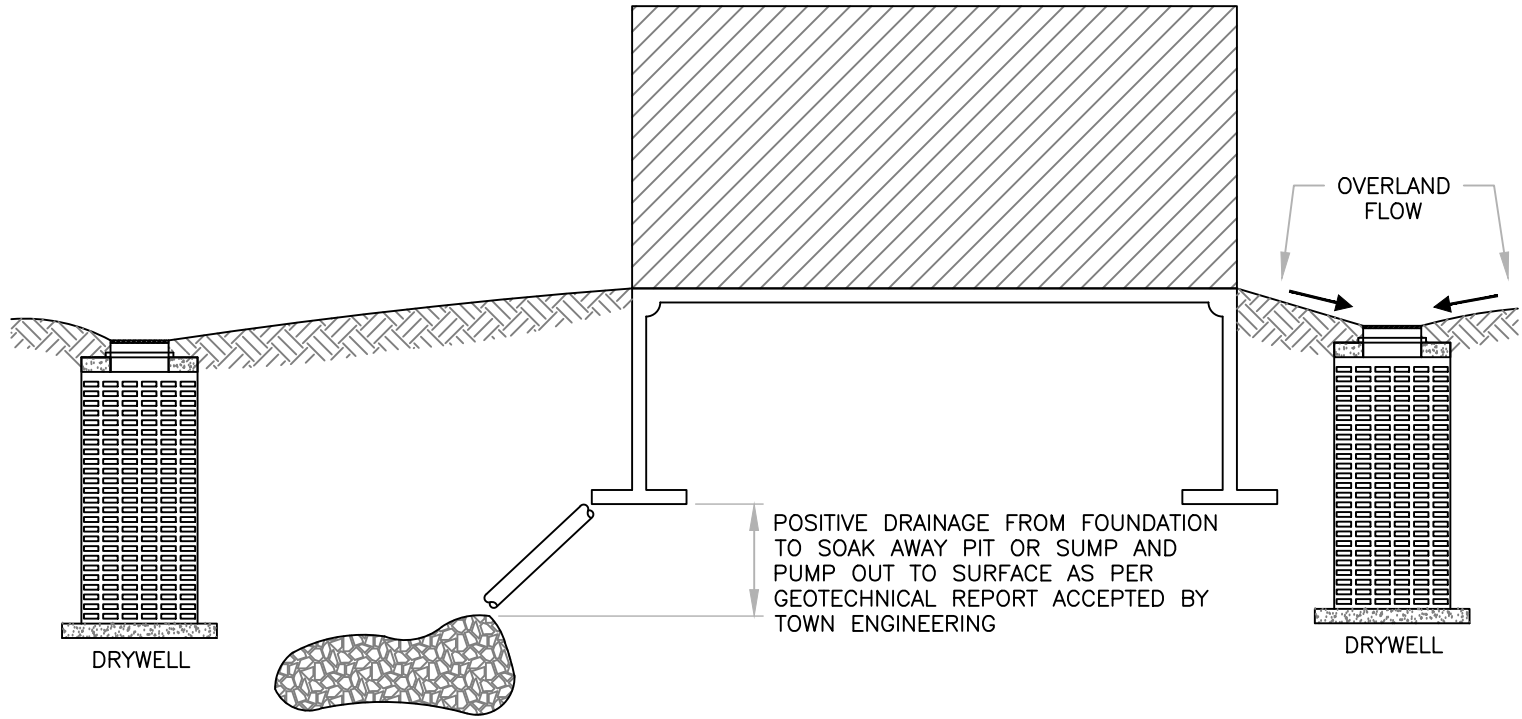


All dimensions in meters unless otherwise noted



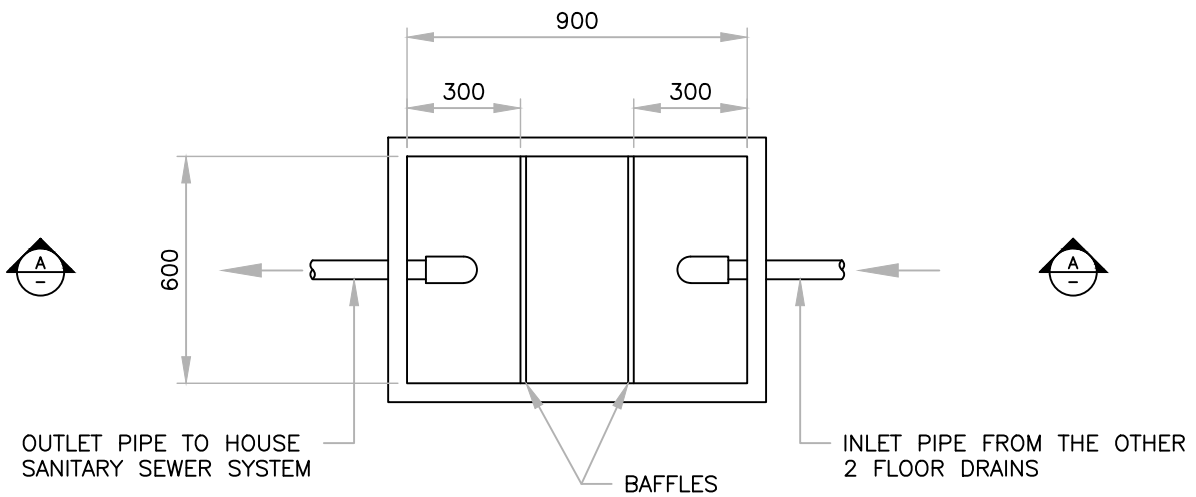
5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>SUNKEN ENTRANCES</b>
4					CHECKED BY: F. CAMIRE			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	FC	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: GRD 3.5

DRAWING\_NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 3 - SITE GRADING AND DRAINAGE (GRD XX)\GRD 3.6.DWG

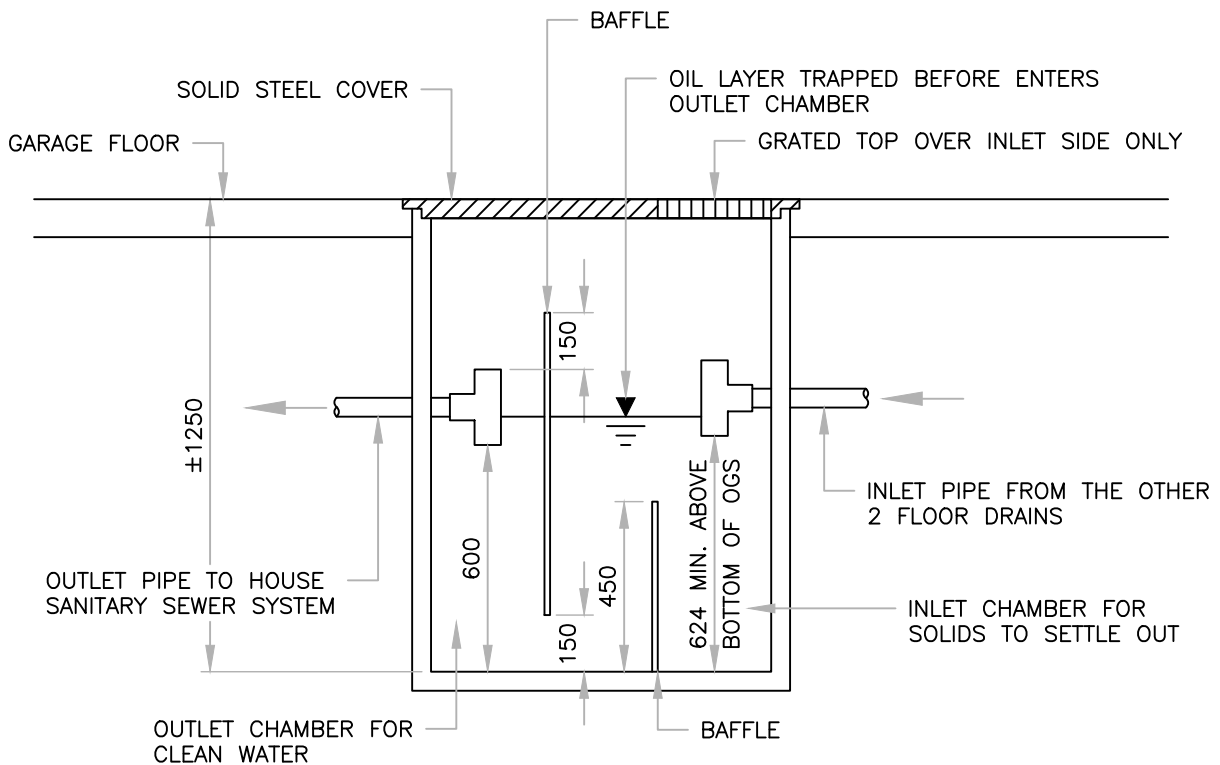


All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>WEeping</b> <b>DRAIN</b> <b>TILE</b>
4					CHECKED BY: B. KINZIE			
3					APPROVED: _____			
2								SCALE: NTS FIGURE NO.: GRD 3.6
1	08/14/19	2019 EDCG STANDARDS	BWM	BK	CB	MANAGER OF ENGINEERING TOWN OF CANMORE		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			



PLAN VIEW




SECTION A-A

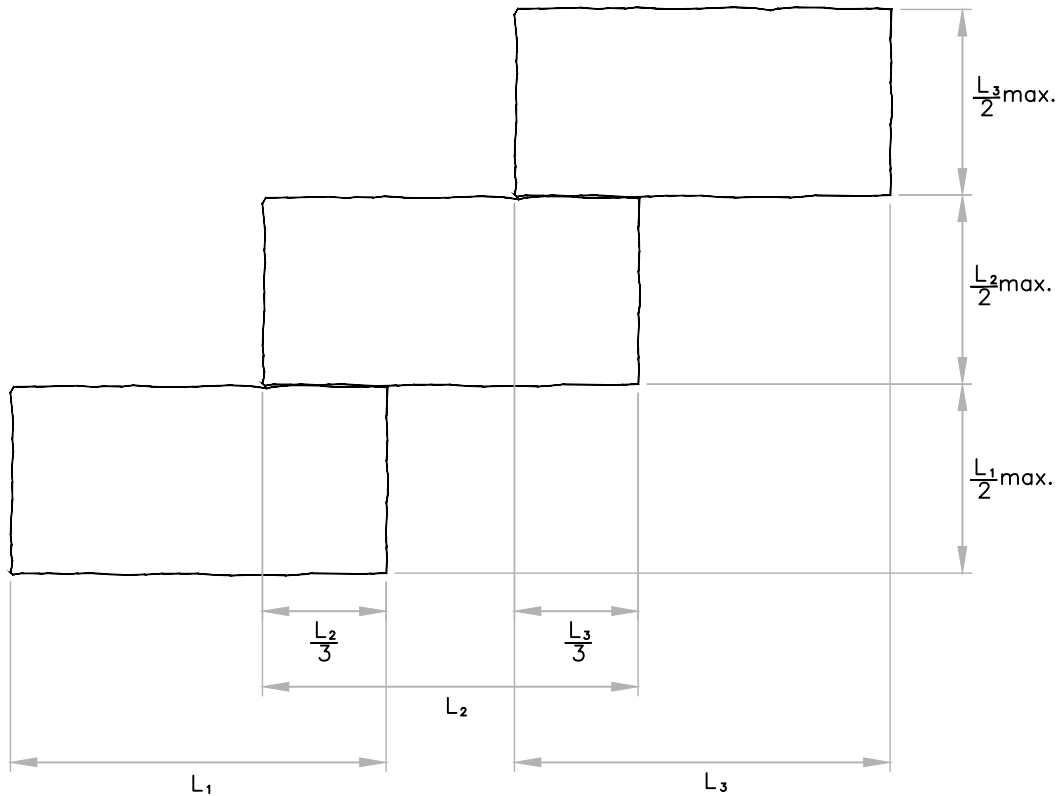
All dimensions in meters unless otherwise noted



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5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>Town of CANMORE</b> <b>GARAGE DRAINAGE</b> <b>(SINGLE FAMILY RESIDENCE)</b>
4					CHECKED BY: B. KINZIE			
3					APPROVED:			
2					MANAGER OF ENGINEERING TOWN OF CANMORE			
1	08/14/19	2019 EDCG STANDARDS	BMW	BK	CB	SCALE: 1: 20		FIGURE NO.: GRD 3.7
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			


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RETAINING WALL

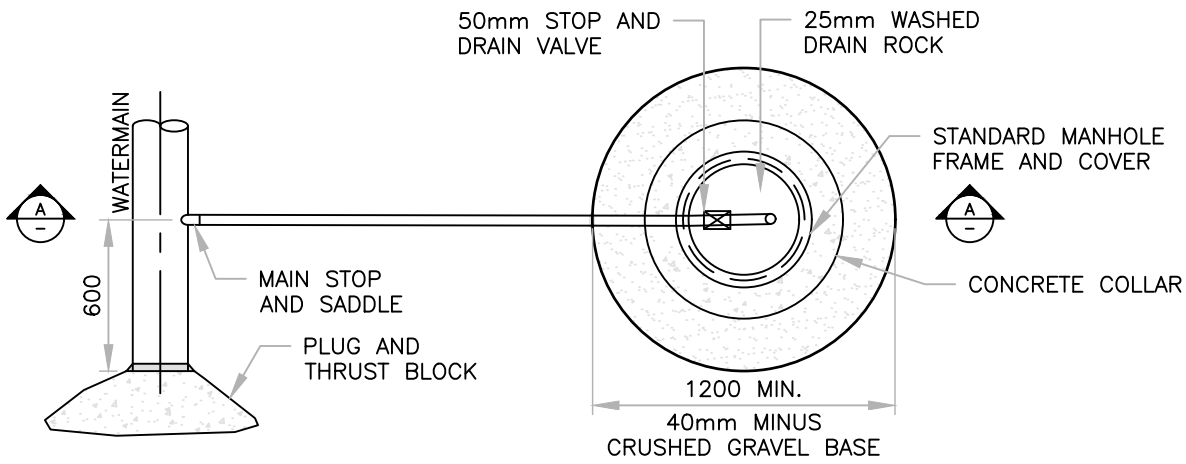
All dimensions in meters unless otherwise noted



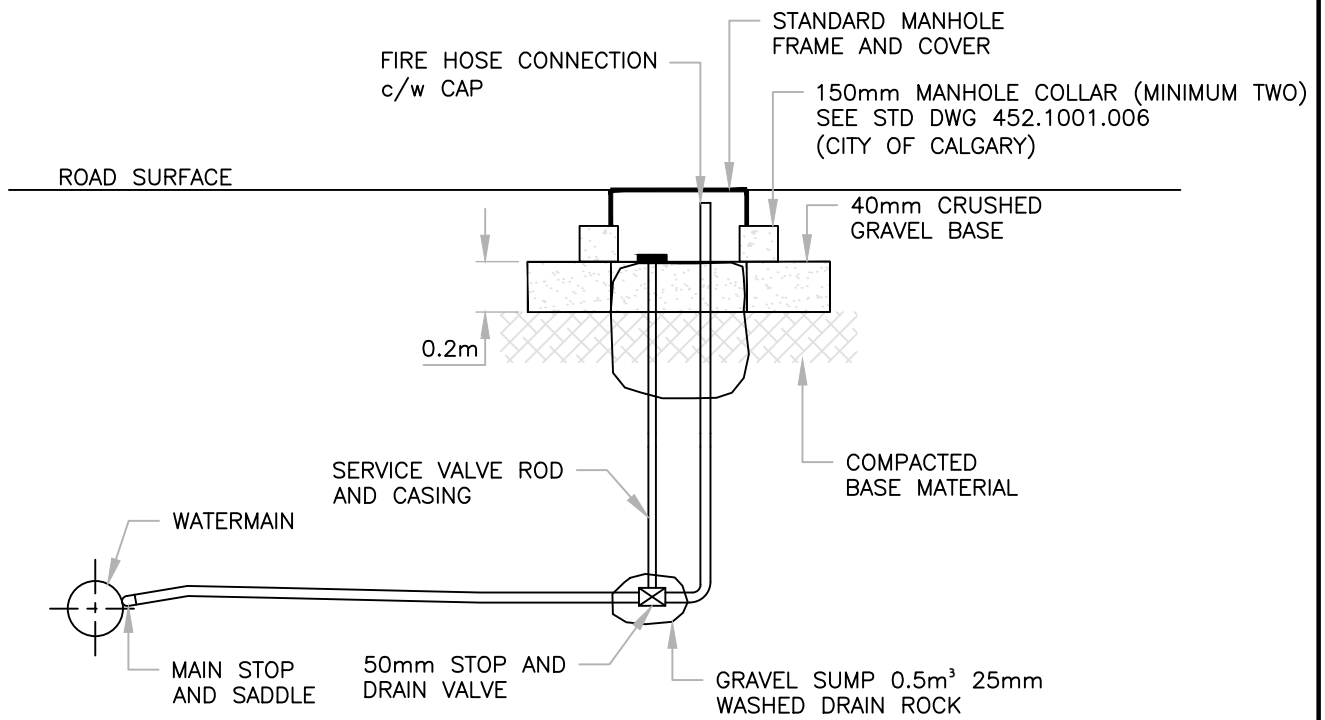
5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>RETAINING WALL</b> <b>SKETCH</b>
4						CHECKED BY: B. KINZIE		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	BK	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: GRD 3.8



DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.1.DWG



PLAN VIEW



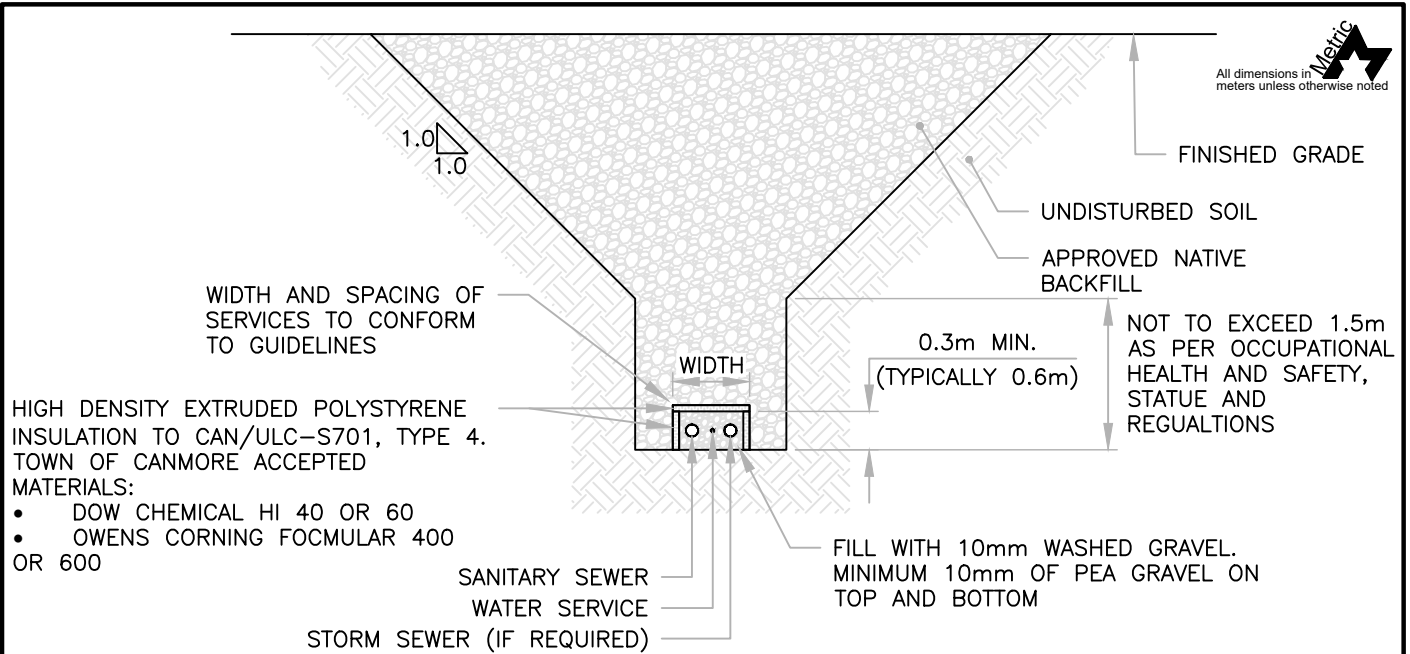
SECTION A-A

NOTES

1. DETAILS OF LOCATION OF SHUT-OFF VALVE AND MANHOLE FRAME TO BE SHOWN ON PROJECT DRAWINGS.
2. IN HIGH GROUNDWATER TABLE AREAS, THIS FLUSH-OUT TO BE INSTALLED ABOVE THE PREDICTED GROUNDWATER TABLE AND INSULATED AS PER THE EDCG'S.

All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	<p><b>TYPICAL 50mm WATERMAIN FLUSH-OUT</b></p>
4						CHECKED BY: B. BIRCH		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: WAT 4.1




**BOX (INVERTED 'U') INSULATION REQUIREMENTS**

GRAVITY SEWER SERVICES INDEPENDENT OF OTHER SERVICES TO BE INSULATED AS FOLLOWS			
Depth of Cover	Insulation Width (m)	Vertical Leg Height (m)	Insulation Thickness (mm)
1.00 - 1.149	1.8	0.6	100
1.150-1.299	1.8	0.6	100
1.300-1.449	1.2	0.6	100
1.450-1.599	1.2	0.6	75
1.600-1.749	0.8	0.6	75
1.750-1.899	0.8	0.6	50
1.900-2.049	0.8	0.6	50
2.050-2.199	0.8	0.6	50
2.200-2.349	0.8	0.6	50
2.350-2.499	0.6	0.6	50

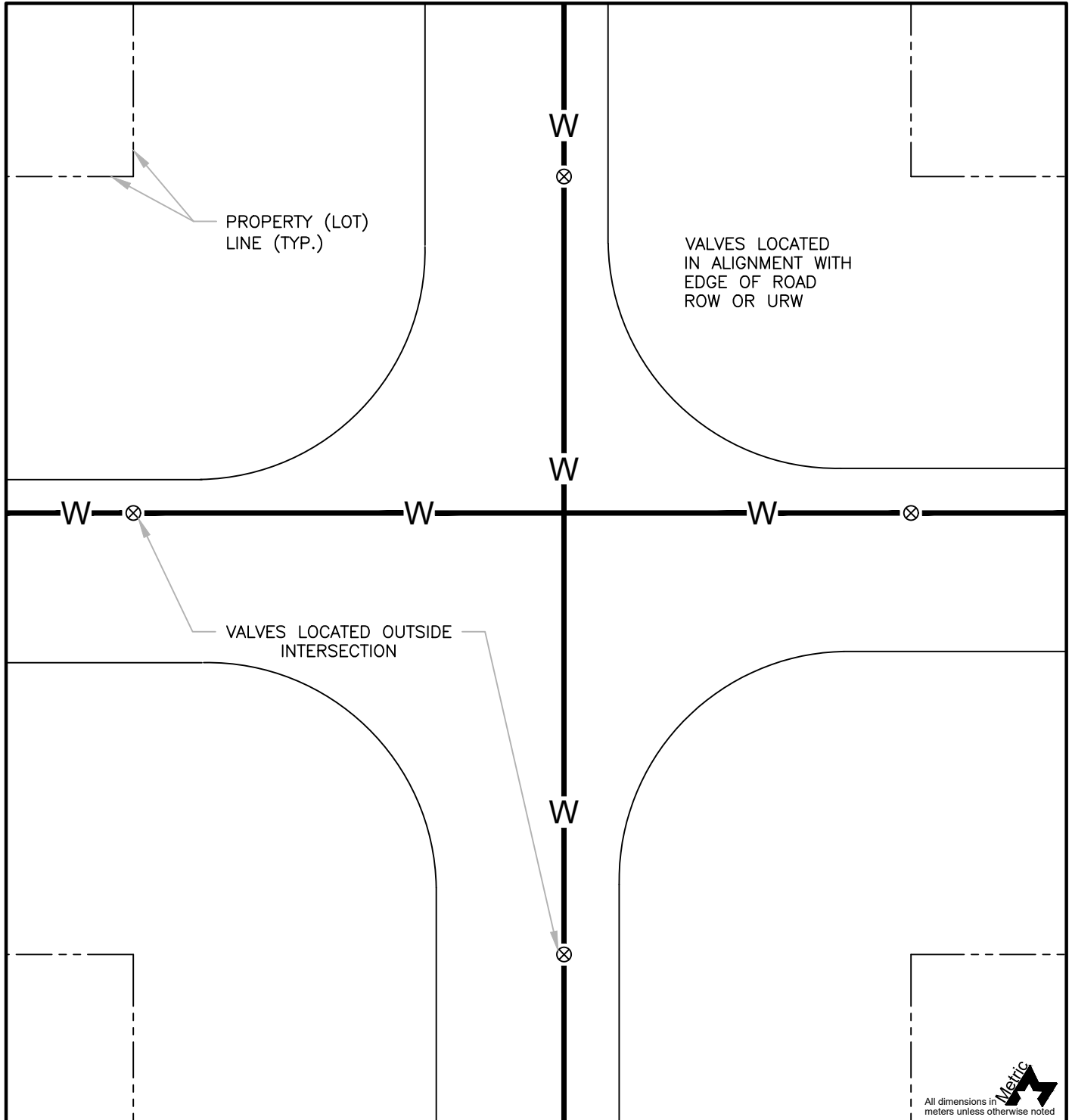
COMBINED SERVICES: WATER, GRAVITY SEWER AND LOW PRESSURE SEWER TO BE INSULATED AS FOLLOWS			
Depth of Cover	Insulation Width (m)	Vertical Leg Height (m)	Insulation Thickness (mm)
1.00 - 1.149	2.4	0.6	100
1.150-1.299	2.4	0.6	100
1.300-1.449	2.4	0.6	100
1.450-1.599	1.8	0.6	100
1.600-1.749	1.8	0.6	100
1.750-1.899	1.8	0.6	100
1.900-2.049	1.8	0.6	75
2.050-2.199	1.8	0.6	50
2.200-2.349	1.8	0.6	50
2.350-2.499	1.2	0.6	50
2.500-2.649	1.2	0.6	50
2.650-2.799	0.6	0.6	50
2.800-2.949	0.6	0.6	50
2.950-3.099	0.6	0.6	50
3.100-3.249	0.6	0.6	50
3.250-3.399	0.6	0.6	50

**NOTES**

- FOR SERVICES LARGER THAN 150mm, SITE SERVICING PLANS AND INSULATION DETAILS TO BE IN ACCORDANCE WITH CITY OF CALGARY, STANDARD SPECIFICATIONS. WATERWORKS CONSTRUCTION EXCEPT INSULATION MATERIALS TO BE AS NOTED ABOVE.
- WHERE THE MINIMUM FROST PROTECTIVE COVERS CANNOT BE ACHIEVED, THE TOWN MAY ALLOW AN EXEMPTION IF AN ENGINEER CAN DEMONSTRATE INCORPORATION OF APPROPRIATE SPECIAL PRECAUTIONS IN THE SELECTION OF PIPE, BEDDING AND INSULATION MATERIAL.
- AN ALTERNATIVE INSULATION DETAIL TO THE INVERTED "U" SHOWN IS A HORIZONTAL LAYER OF INSULATION TO THE SAME THICKNESS SHOWN AND WIDTH EQUAL TO THE INSULATION WIDTH PLUS TWO TIMES THE VERTICAL LEG HEIGHT SHOWN IN THE TABLES ABOVE.


7						DRAWN:	DATE:	 <b>BOX INSULATION REQUIREMENTS:</b> <b>SERVICES &amp; MAINS</b> <b>150mm &amp; SMALLER</b>	
6	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	B. MORVAN	AUG 2019		
5	05/04/10	2010 Engineering Design Standards	SP	PN	PN	CHECKED BY:			
4	12/02/04	2005 Engineering Design Standards	PL	OR	OR	B. BIRCH			
3	04/08/03	2003 Engineering Design Standards	PL	PL	DAB	APPROVED:			
2	03/17/00	2000 Engineering Design Standards	MAR	DAB	DAB				
1	05/05/98	1998 Engineering Design Standards	KRB	KRB	DRJ				
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS	FIGURE NO.: WAT 4.2

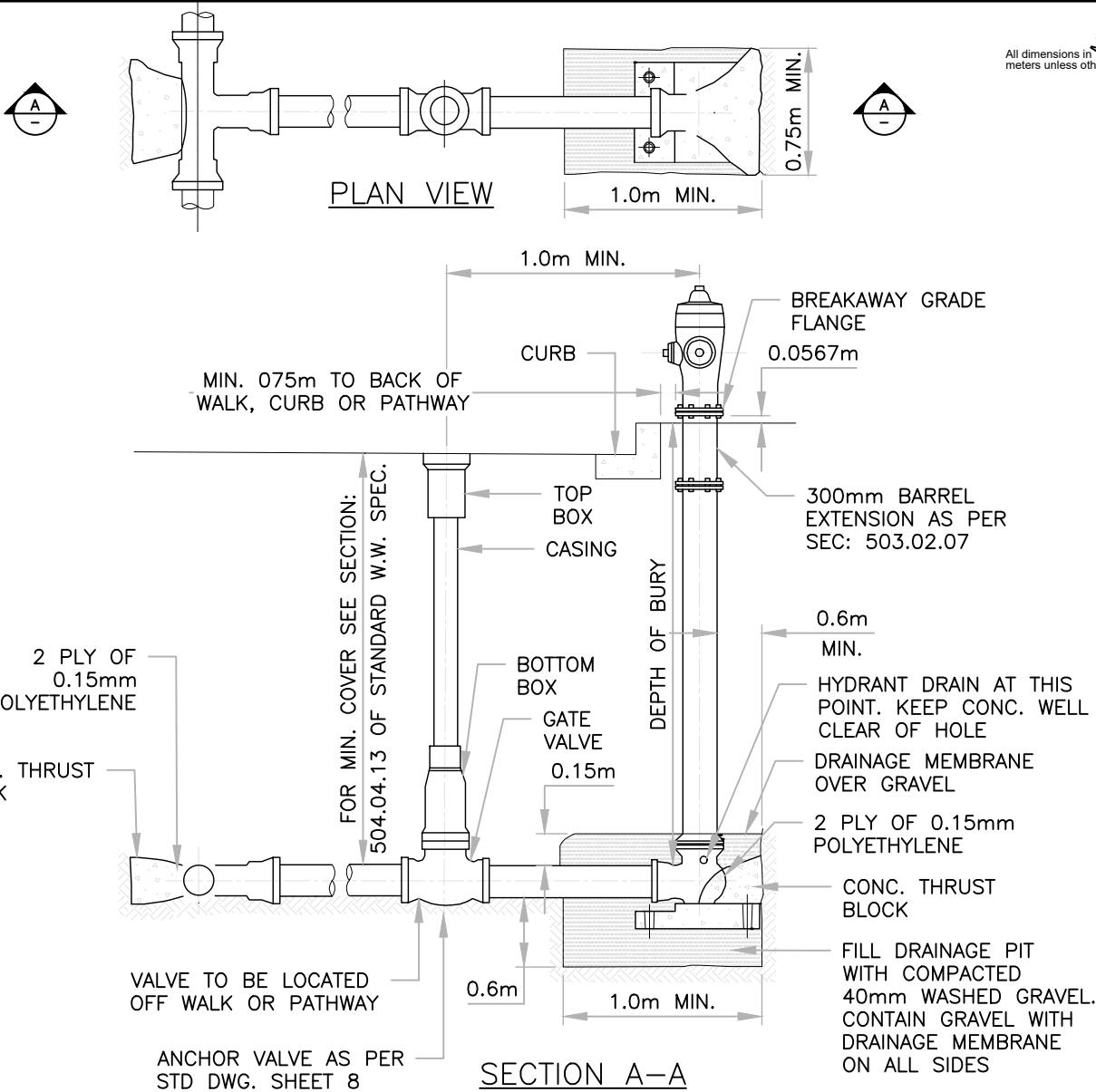
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All dimensions in meters unless otherwise noted




5							DRAWN: B. MORVAN	DATE: AUG 2019	 <b>VALVE PLACEMENT AT INTERSECTIONS</b>
4							CHECKED BY: B. BIRCH		
3							APPROVED:		
2									
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB				
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: WAT 4.3	



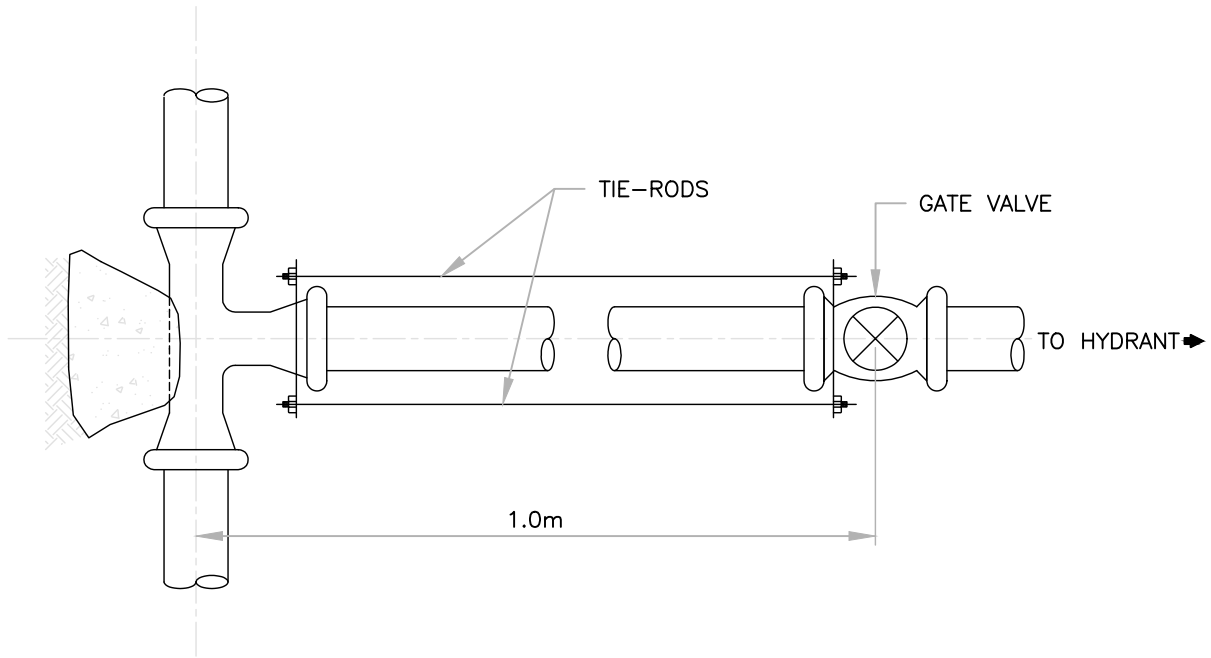
**NOTES**

1. THE EXTERIOR OF THE HYDRANT SHALL BE COATED AS SPECIFIED IN SECTION 503.02.00.
2. HYDRANTS IN HIGH WATER TABLE REQUIRED TO HAVE DRAINS PLUGGED. BE PAINTED RED AND MARKED. "FOR FIRE USE ONLY"
3. THE HYDRANT SHALL BE PLACED ON A CONCRETE PAD AS SHOWN IN DRAWING 453.1002.002.
4. DRAINAGE MEMBRANE SHALL BE PLACED OVER THE TOP OF THE STONES TO PREVENT THE SPACES BETWEEN THE STONES FROM BEING FILLED WITH NON PERMEABLE MATERIAL.
5. PLACE 2 PLY OF 0.15MM POLYETHYLENE BETWEEN PIPE AND POURED CONCRETE.
6. CONCRETE SHALL BE SULFATE RESISTANT, 20 MPA @ 28 DAYS.
7. DRAINAGE MEMBRANE, SEE SEC. 319.00.00, STD. SPEC. ROADS CONSTRUCTION.
8. FOR CATHODIC PROTECTION REQUIREMENTS SEE SECTION 504.07.00.
9. REFERENCE TO SECTIONS AND STD. DWG. IS CITY OF CALGARY, STANDARD SPECIFICATIONS, WATERWORKS CONSTRUCTION, LATEST EDITION.

5						DRAWN:	DATE:	 <b>Town of CANMORE</b> <b>HYDRANT</b> <b>DETAILS</b>	
4					B.MORVAN	AUG 2019			
3					CHECKED BY:	B. BIRCH			
2					APPROVED:				
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB			SCALE:	FIGURE NO.:
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING	TOWN OF CANMORE	NTS	WAT 4.4

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.4.DWG

MODIFY CITY OF CALGARY DRAWING FILE NO.: 453.1002.001  
 TO INCLUDE THE FOLLOWING TIE BACK DETAIL FOR ALL HYDRANT VALVES:




**NOTES**

1. HYDRANT TEE TO BE CAST IRON, DUCTILE OR APPROVED EQUIVALENT.
2. TIE-BACK RODS, WASHERS AND HEXAGONAL NUTS TO BE FABRICATED FROM HIGH STRENGTH, LOW ALLOY STEEL IN ACCORDANCE WITH ANSI/AWWA C111/A21.11
3. COAT AND WRAP THE COMPLETED TIE-ROD AND COMPRESSION SLEEVE COUPLING INSTALLATION WITH DENSO MASTIC AND TAPE TO ENSURE ALL METAL COMPONENTS COVERED.
4. TYPICAL DETAIL FOR INSTALLING TEE AND GATE VALVE (HYDRANT LEAD) IN EXISTING WATER MAIN.

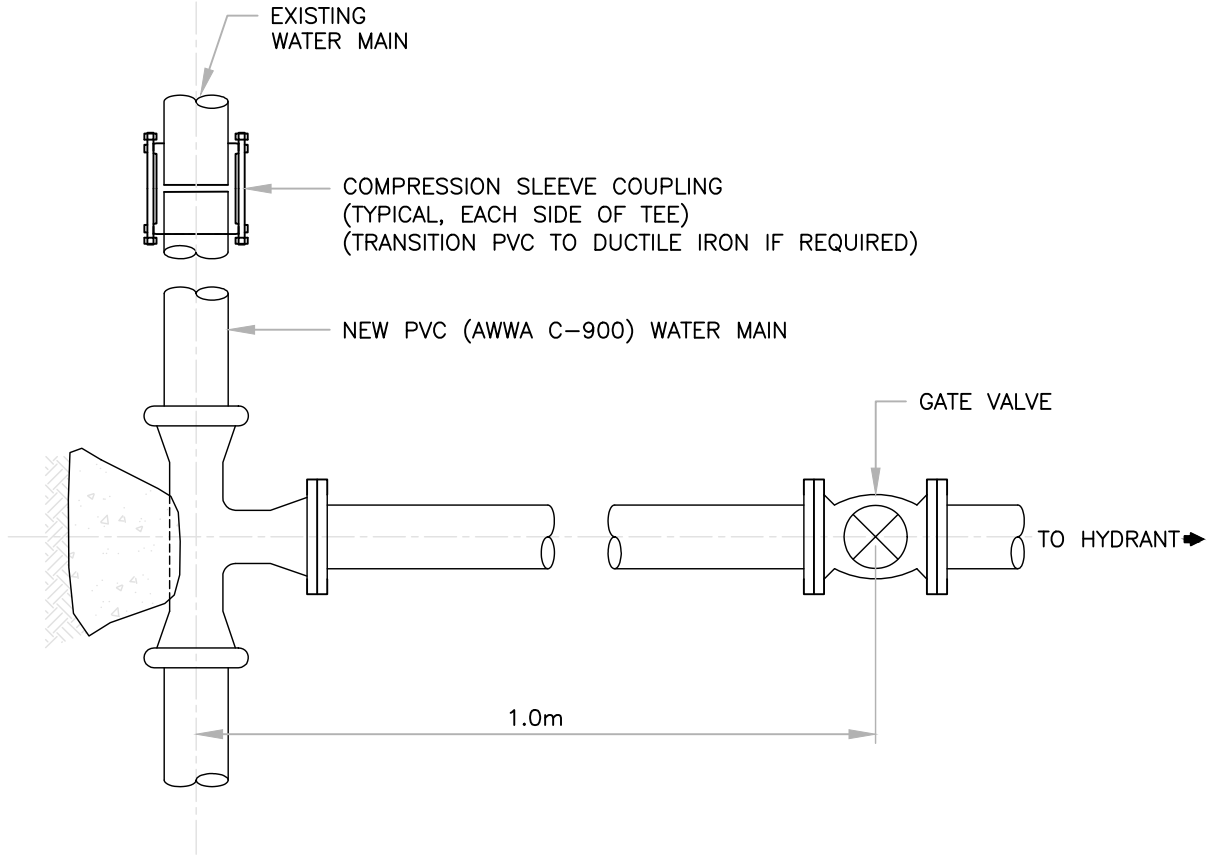
All dimensions in meters unless otherwise noted



5						DRAWN:	DATE:	 <b>HYDRANT VALVE TIE-BACK</b>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2					B. BIRCH			
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: WAT 4.5

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.5.DWG

MODIFY CITY OF CALGARY DRAWING FILE NO.: 453.1002.001  
 TO INCLUDE THE FOLLOWING TIE BACK DETAIL FOR ALL  
 HYDRANT VALVES:  
 (ALTERNATIVELY, FLANGED VALVE TO FLANGED TEE)




**NOTES**

1. HYDRANT TEE TO BE CAST IRON, DUCTILE OR APPROVED EQUIVALENT.
2. TIE-BACK RODS, WASHERS AND HEXAGONAL NUTS TO BE FABRICATED FROM HIGH STRENGTH, LOW ALLOY STEEL IN ACCORDANCE WITH ANSI/AWWA C111/A21.11
3. COAT AND WRAP THE COMPLETED TIE-ROD AND COMPRESSION SLEEVE COUPLING INSTALLATION WITH DENSO MASTIC AND TAPE TO ENSURE ALL METAL COMPONENTS COVERED.
4. TYPICAL DETAIL FOR INSTALLING TEE AND GATE VALVE (HYDRANT LEAD) IN EXISTING WATER MAIN.

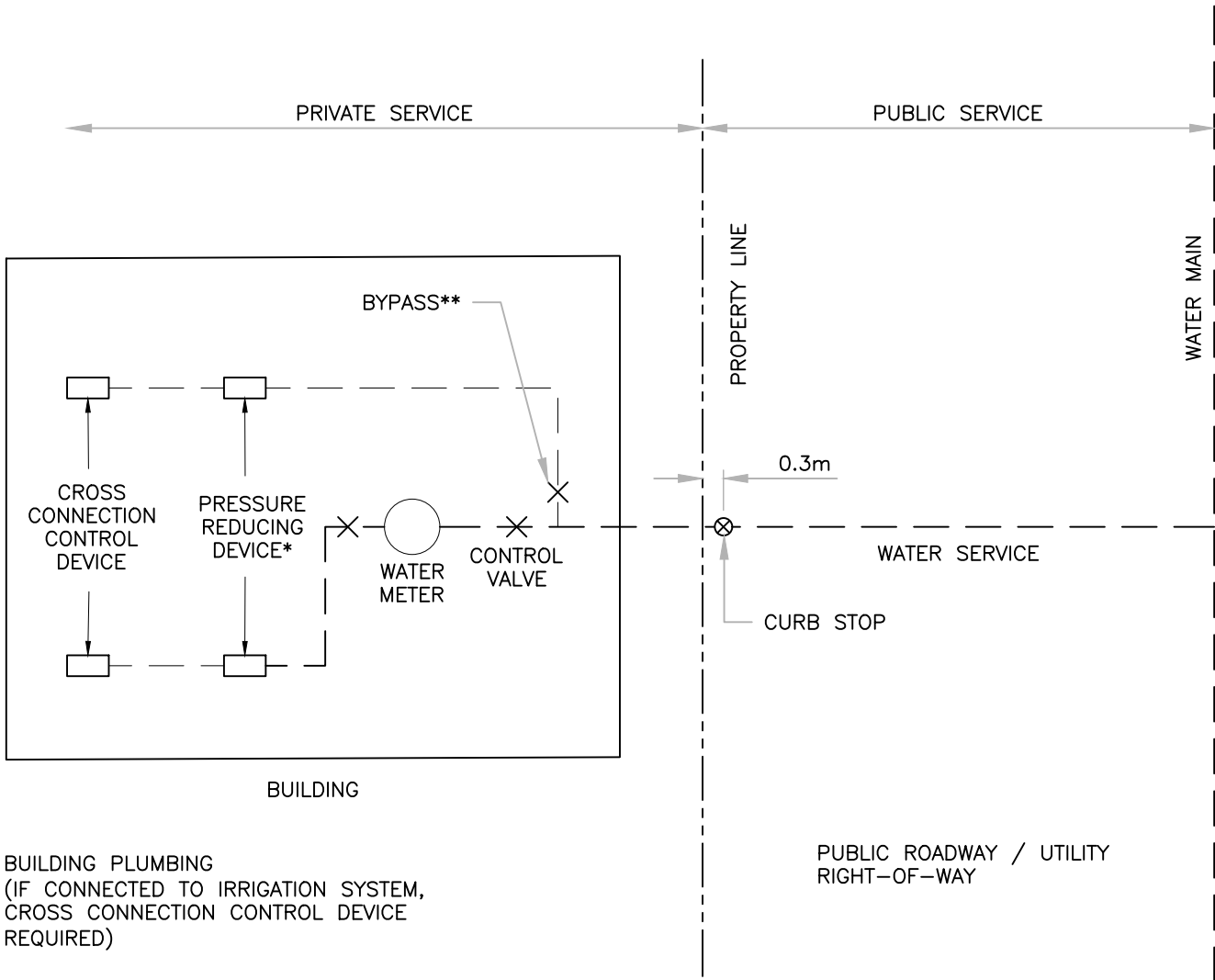
All dimensions in meters unless otherwise noted



5						DRAWN:	DATE:	 <b>HYDRANT VALVE TIE-BACK          FLANGED VALVE TO          FLANGED TEE</b>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2					B. BIRCH			
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: WAT 4.6

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.6.DWG

BYLAW  
TOWN OF CANMORE – WATER BYLAW  
SCHEDULE 3 – WATER SERVICE



BUILDING PLUMBING  
(IF CONNECTED TO IRRIGATION SYSTEM,  
CROSS CONNECTION CONTROL DEVICE  
REQUIRED)


PUBLIC ROADWAY / UTILITY  
RIGHT-OF-WAY

\* IF REQUIRED BY TOWN  
\*\* AS PERMITTED BY TOWN (FOR FIRE PROTECTION SYSTEM)

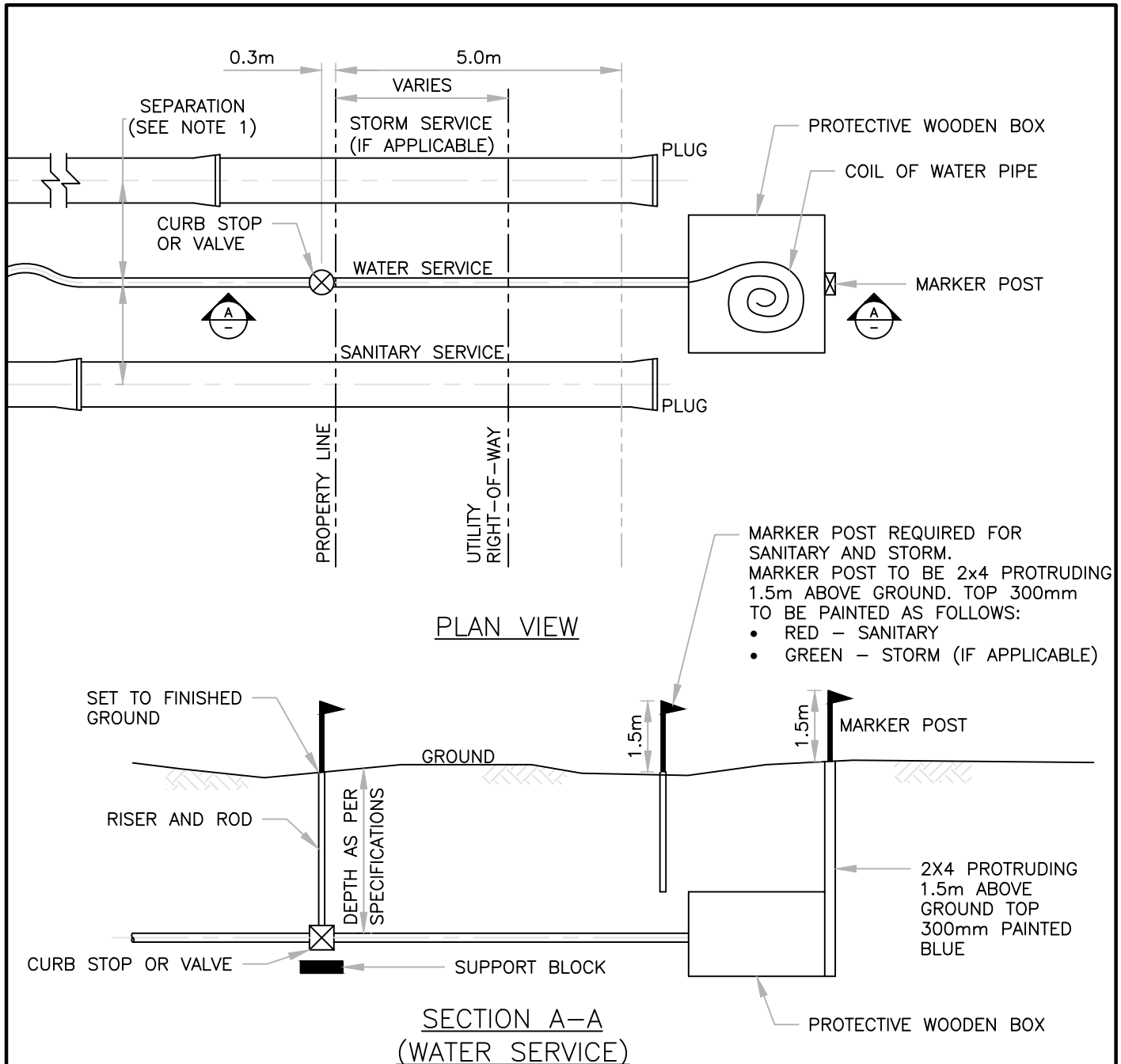
All dimensions in  
meters unless otherwise noted



DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.7.DWG

5						DRAWN: B. MORVAN	DATE: AUG 2019	
4						CHECKED BY: B. BIRCH		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: WAT 4.7

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.8.DWG



**NOTES**

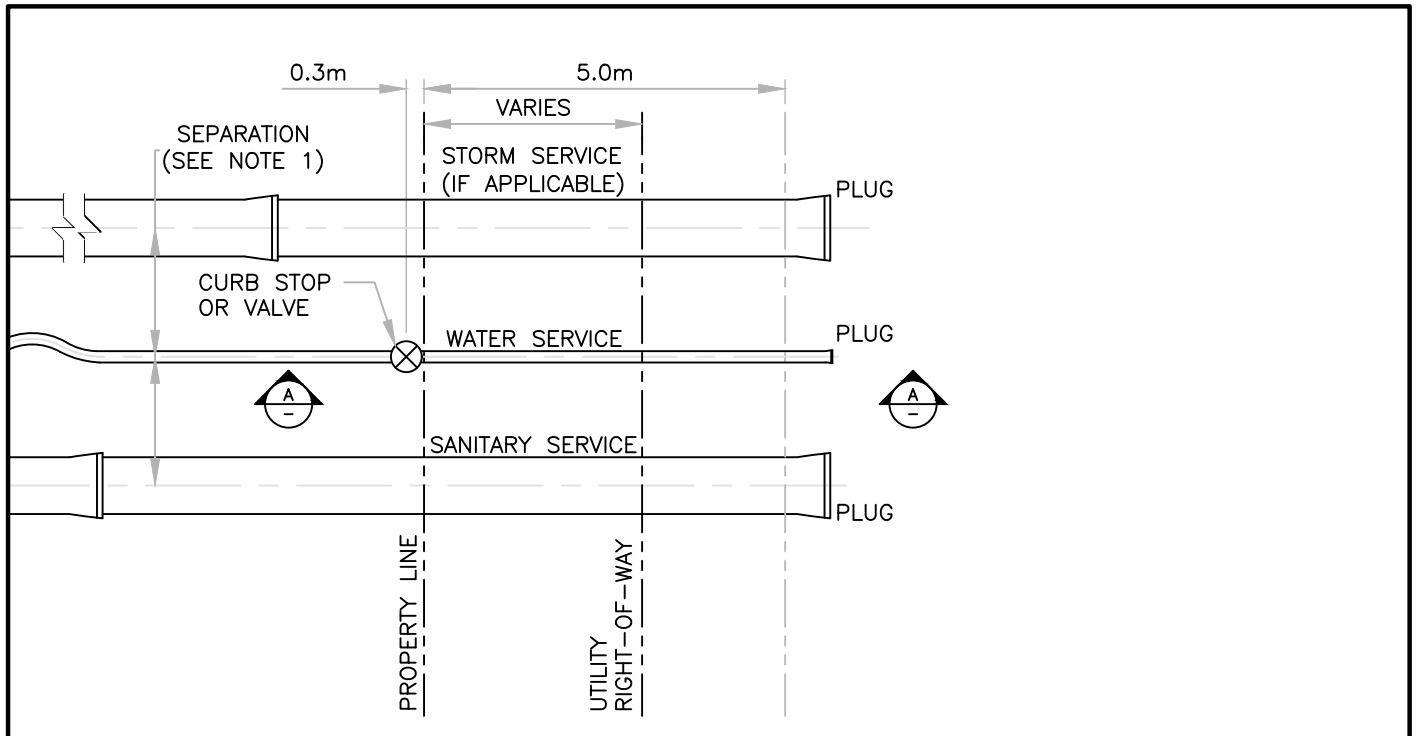
- SERVICE MAY BE IN A COMMON TRENCH EXCEPT WHERE WATER SERVICE IS BELL AND SPIGOT PIPE THEN SEPARATION TO BE AS PER ALBERTA ENVIRONMENT STANDARDS AND GUIDELINES.
- REFER TO CITY OF CALGARY STANDARD SPECIFICATIONS, WATERWORKS CONSTRUCTION, LATEST EDITION, FIGURES 23 TO 26 INCLUSIVE FOR GENERAL DETAILS.

All dimensions in meters unless otherwise noted

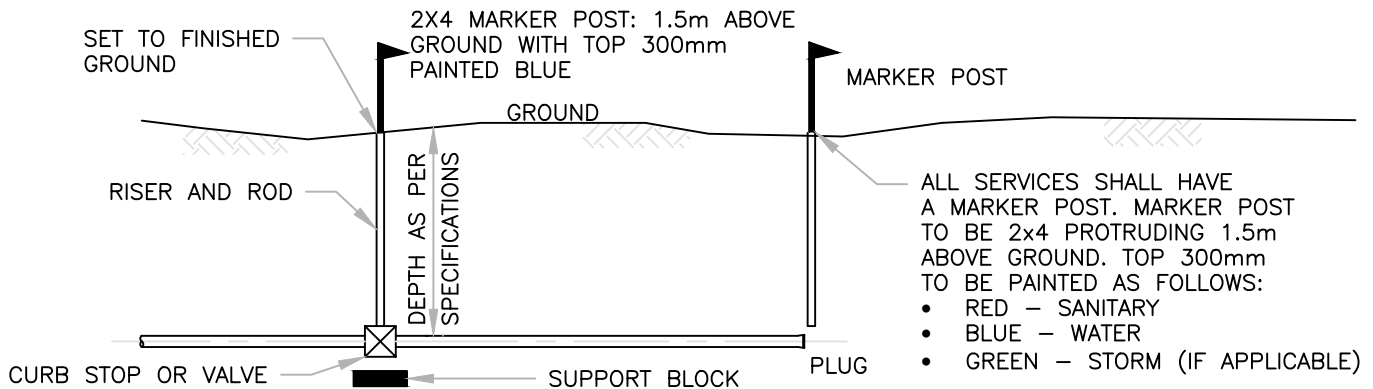
5						DRAWN:	DATE:	<p><b>Town of CANMORE</b></p> <p><b>PRE-SERVICE CONNECTION DETAIL: FLEXIBLE PIPE</b></p> <p>SCALE: NTS      FIGURE NO.: WAT 4.8</p>
4					B. MORVAN	AUG 2019		
3	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	CHECKED BY:	B. BIRCH	
2	05/03/10	2010 EDCG Standards	SP	PN	PN	APPROVED:		
1	11/24/04	Added protective collar						
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		



DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.9.DWG



**PLAN VIEW**



**SECTION A-A  
(WATER SERVICE)**

**NOTES**

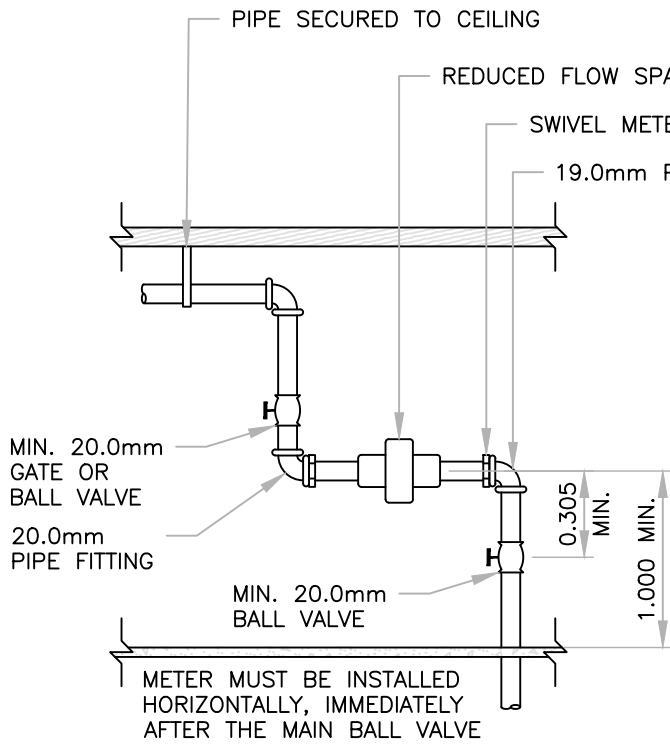
- SERVICE MAY BE IN A COMMON TRENCH EXCEPT WHERE WATER SERVICE IS BELL AND SPIGOT PIPE THEN SEPARATION TO BE AS PER ALBERTA ENVIRONMENT STANDARDS AND GUIDELINES.
- REFER TO CITY OF CALGARY STANDARD SPECIFICATIONS, WATERWORKS CONSTRUCTION, LATEST EDITION, FIGURES 23 TO 26 INCLUSIVE FOR GENERAL DETAILS.

All dimensions in meters unless otherwise noted

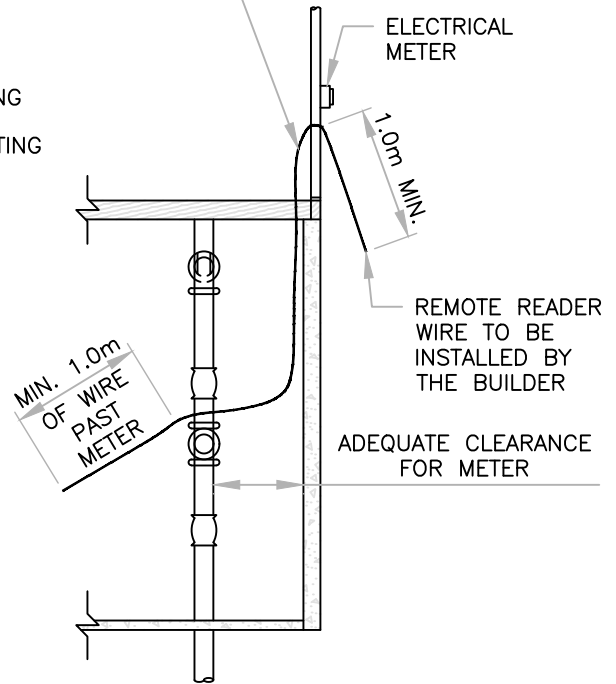
5						DRAWN:	DATE:	 <b>PRE-SERVICE CONNECTION DETAIL: NON-FLEXIBLE PIPE</b>	
4					B. MORVAN	AUG 2019			
3	08/14/19	2019 EDCG Standards	BWM	BB	CB	CHECKED BY:	B. BIRCH		
2	05/03/10	Removed protective collar	SP	PN	PN	APPROVED:			
1	11/26/04	Added protective collar	PL	OR	OR				
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS	
							FIGURE NO.:		WAT 4.9

DRAWING NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT\_XX)\WAT\_4.10.DWG

WIRE TYPE 4 CONDUCTOR (4 COLOUR) 22 GAUGE  
PVC INSULATED AND OVERALL PVC JACKETED



FRONT VIEW



SIDE VIEW

**METER SPACING**

- 15mm METER = 0.019m
- 20mm METER = 0.229m
- 25mm METER = 0.273m
- 38mm METER = 0.231m (FLANGED)
- 50mm METER = 0.378m (FLANGED)

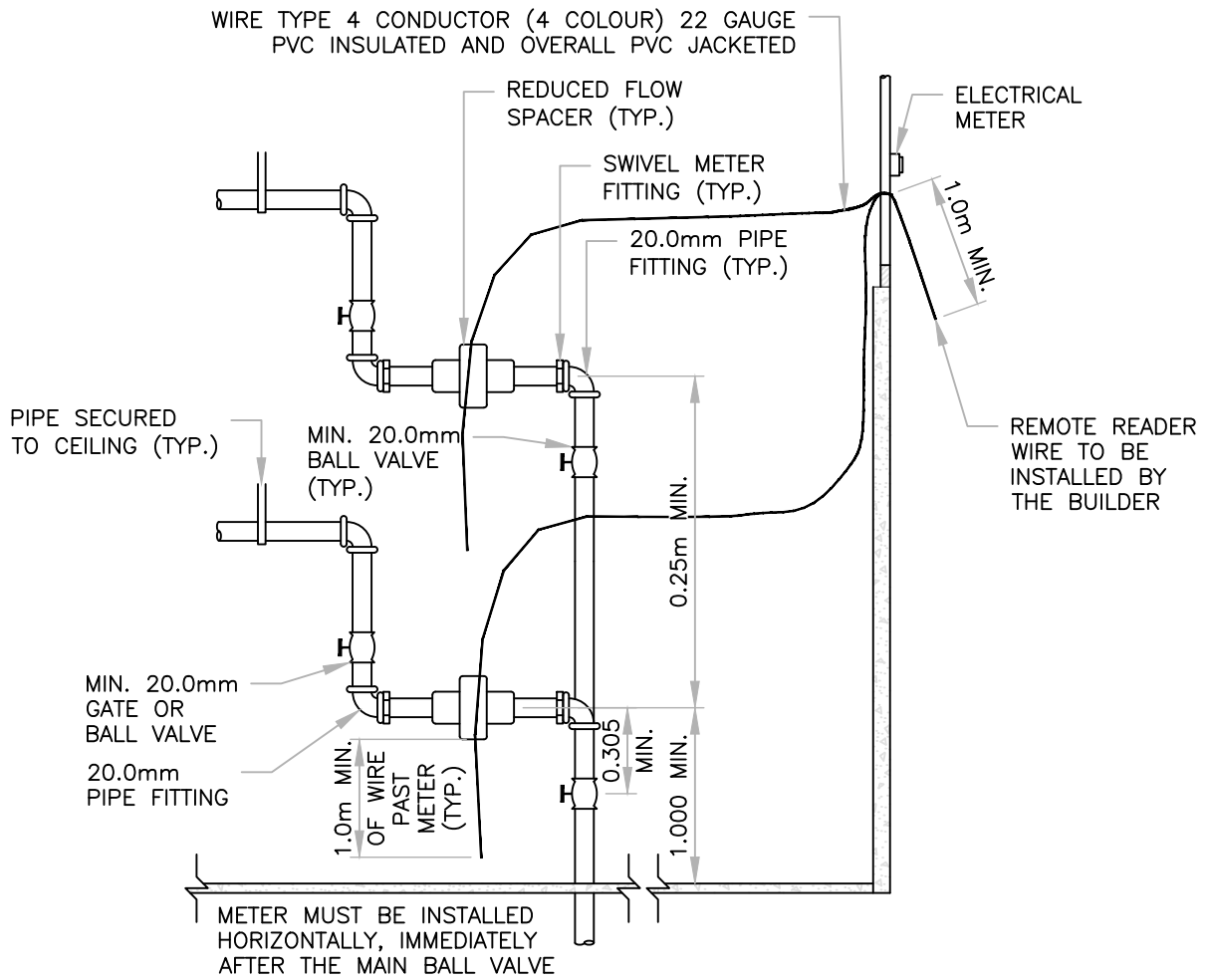
**NOTES**

1. METER MUST BE SITUATED IN A PERMANENTLY ACCESSIBLE LOCATION.
2. SWIVEL METER NUTS AND REDUCED FLOW SPACER TO BE INSTALLED BY BUILDER WITH ADEQUATE CLEARANCE.
3. WATER METER WILL BE INSTALLED BY EPCOR AS PART OF THE OCCUPANCY CERTIFICATE PROCEDURE.
4. WIRING OF HOME FOR EXTERNAL METER READING DEVICE WILL BE DONE BY BUILDER.

All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>RESIDENTIAL WATER METER INSTALLATION (20mm EXAMPLE)</b>
4	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	CHECKED BY: B. BIRCH		
3	02/24/03	2003 ENGINEERING DESIGN STANDARDS				APPROVED:		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB			
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: WAT 4.10

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.11.DWG



**METER SPACING**

- 15mm METER = 0.019m
- 20mm METER = 0.229m
- 25mm METER = 0.273m
- 38mm METER = 0.231m (FLANGED)
- 50mm METER = 0.378m (FLANGED)

**FRONT VIEW**

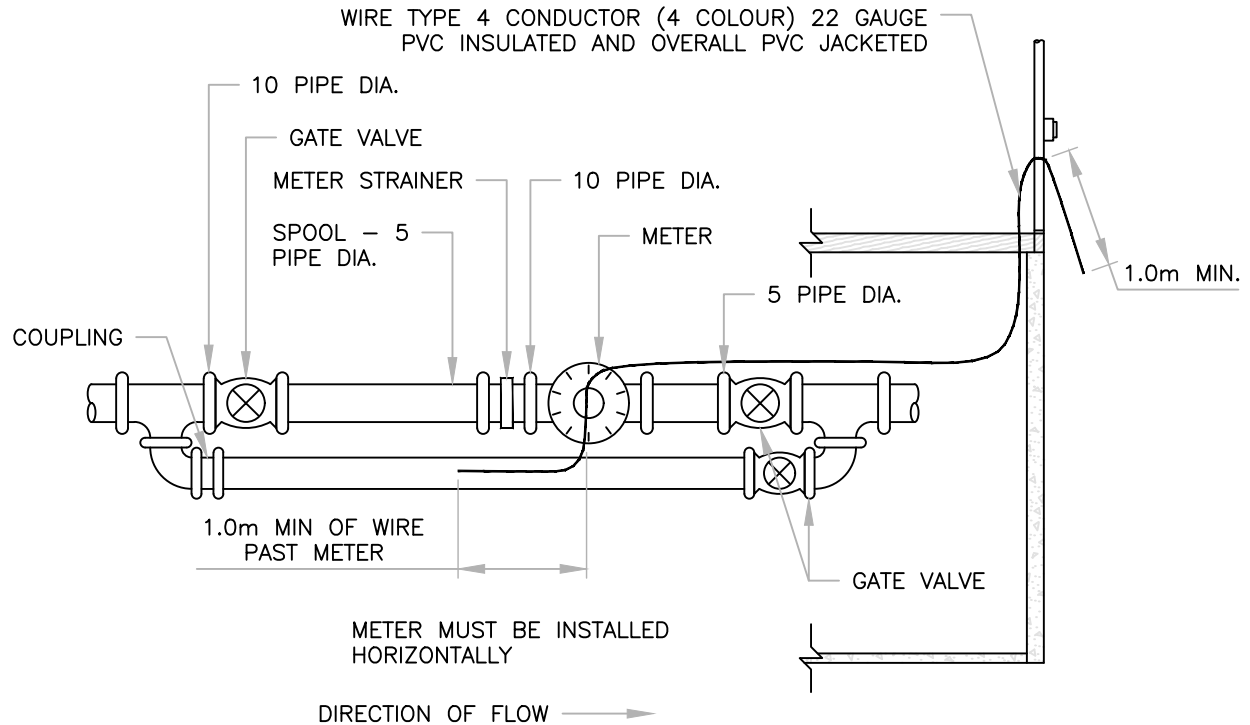
**NOTES**

1. METER MUST BE SITUATED IN A PERMANENTLY ACCESSIBLE LOCATION.
2. SWIVEL METER NUTS AND REDUCED FLOW SPACER TO BE INSTALLED BY BUILDER WITH ADEQUATE CLEARANCE.
3. WATER METER WILL BE INSTALLED BY EPCOR AS PART OF THE OCCUPANCY CERTIFICATE PROCEDURE.
4. WIRING OF HOME FOR EXTERNAL METER READING DEVICE WILL BE DONE BY BUILDER.

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	<p><b>RESIDENTIAL MULTI-UNIT WATER METER INSTALLATION (20mm EXAMPLE)</b></p>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2					B. BIRCH			
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: WAT 4.11

DRAWING NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.12.DWG



**NOTES**

1. METER MUST BE SITUATED IN A PERMANENTLY ACCESSIBLE LOCATION.
2. BYPASS REQUIRED FOR ALL LINES 38mm AND LARGER.
3. EACH COMMERCIAL SITE IS UNIQUE WITH RESPECT TO FLOW REQUIREMENTS AND METER SIZING. PLEASE CONTACT UTILITY SERVICES AT 403 609 4782 TO DISCUSS YOUR METERING REQUIREMENTS.
4. WIRING OF METER FOR EXTERNAL METER READING DEVICE WILL BE DONE BY BUILDER.

All dimensions in meters unless otherwise noted


5						DRAWN: B. MORVAN	DATE: AUG 2019	<p><b>COMMERCIAL WATER METER INSTALLATION</b></p>
4	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	CHECKED BY: B. BIRCH		
3	02/24/03	2003 ENGINEERING DESIGN STANDARDS	PL	PL	DAB	APPROVED:		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB			
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			FIGURE NO.: WAT 4.12

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.13.DWG

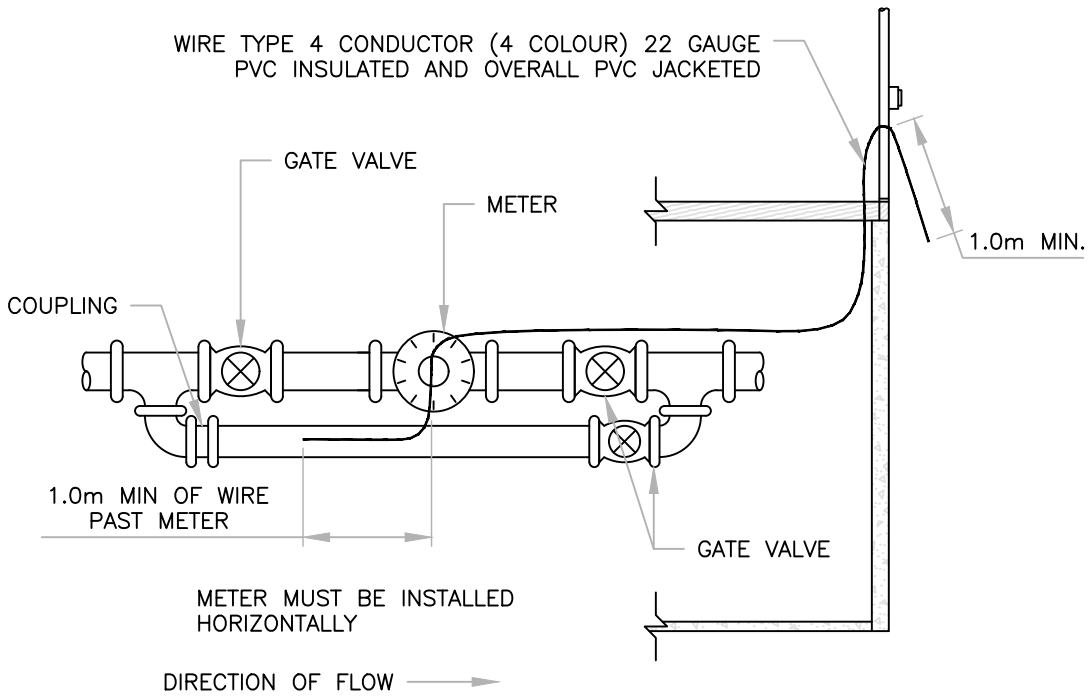
NOTE:

TYPICAL METER SETTING INSTRUCTIONS FOR APARTMENTS, MUTI-FAMILY, RESIDENTIAL, AND COMMERCIAL DEVELOPMENTS, INCLUDING METER VAULT INSTRUCTIONS TO BE AS PER THE: "CITY OF CALGARY, STANDARD SPECIFICATIONS, WATERWORKS CONSTRUCTION" LATEST EDITION, SPECIFICATIONS AND FIGURES 29 TO 38 INCLUSIVE.

All dimensions in meters unless otherwise noted 

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>RESIDENTIAL MULTI-UNIT AND COMMERCIAL WATER METER INSTALLATION</b>
4						CHECKED BY: B. BIRCH		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: WAT 4.13

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 4 - WATER SYSTEM (WAT XX)\WAT 4.14.DWG



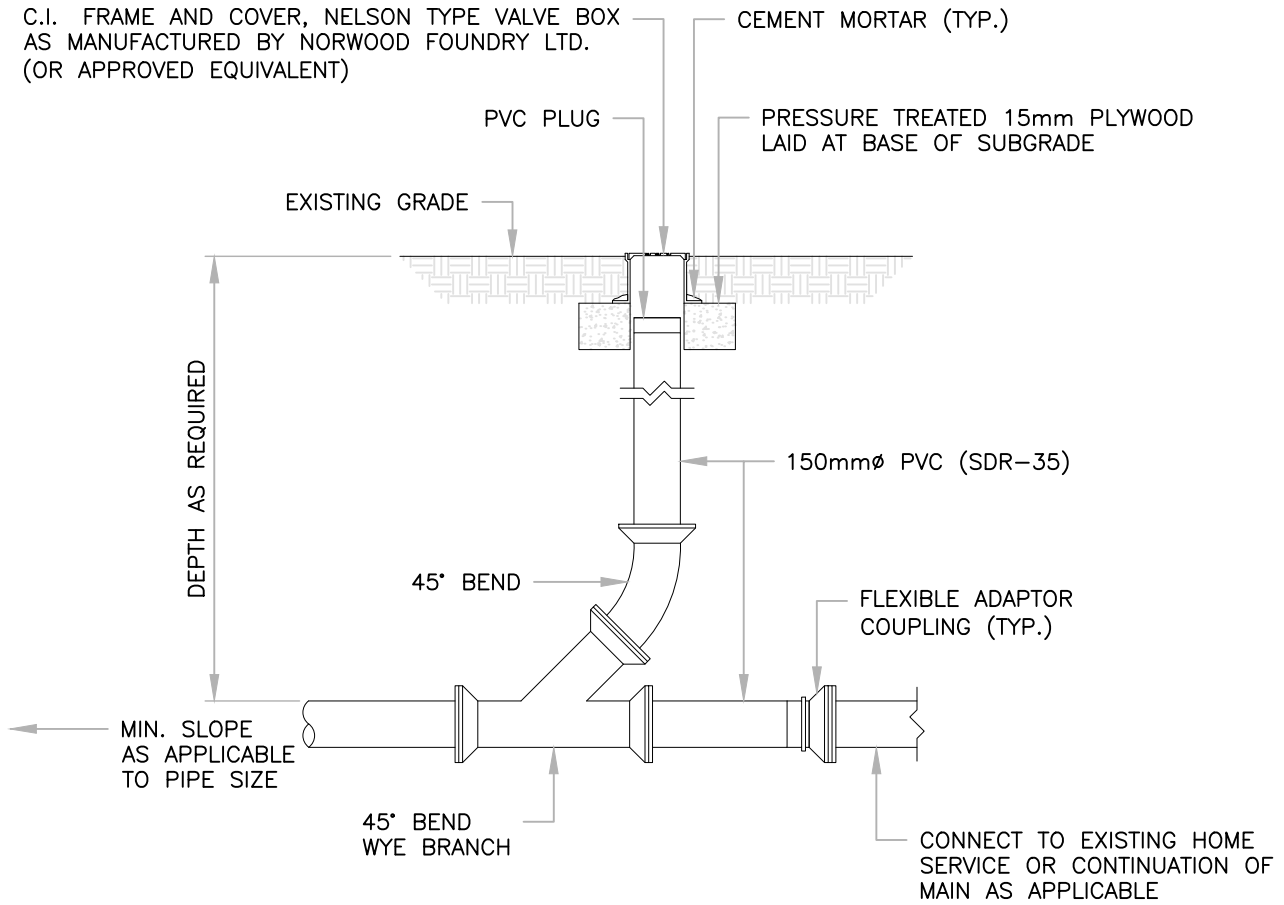
**NOTES**

1. METER MUST BE SITUATED IN A PERMANENTLY ACCESSIBLE LOCATION.
2. BYPASS REQUIRED FOR ALL LINES 38mm AND LARGER.
3. EACH COMMERCIAL SITE IS UNIQUE WITH RESPECT TO FLOW REQUIREMENTS AND METER SIZING. PLEASE CONTACT UTILITY SERVICES AT 403 609 4782 TO DISCUSS YOUR METERING REQUIREMENTS.
4. WIRING OF METER FOR EXTERNAL METER READING DEVICE WILL BE DONE BY BUILDER.

All dimensions in meters unless otherwise noted


5						DRAWN: B. MORVAN	DATE: AUG 2019	<p><b>COMMERCIAL WATER METER INSTALLATION</b></p> <p>Positive Displacement Meter (38mm and up)</p>
4	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	CHECKED BY: B. BIRCH		
3	02/24/03	2003 ENGINEERING DESIGN STANDARDS	PL	PL	DAB	APPROVED:		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB	MANAGER OF ENGINEERING TOWN OF CANMORE		
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ	SCALE: NTS		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	FIGURE NO.: WAT 4.14		

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 5 - SANITARY SYSTEM (SS XX)\SS 5.1.DWG

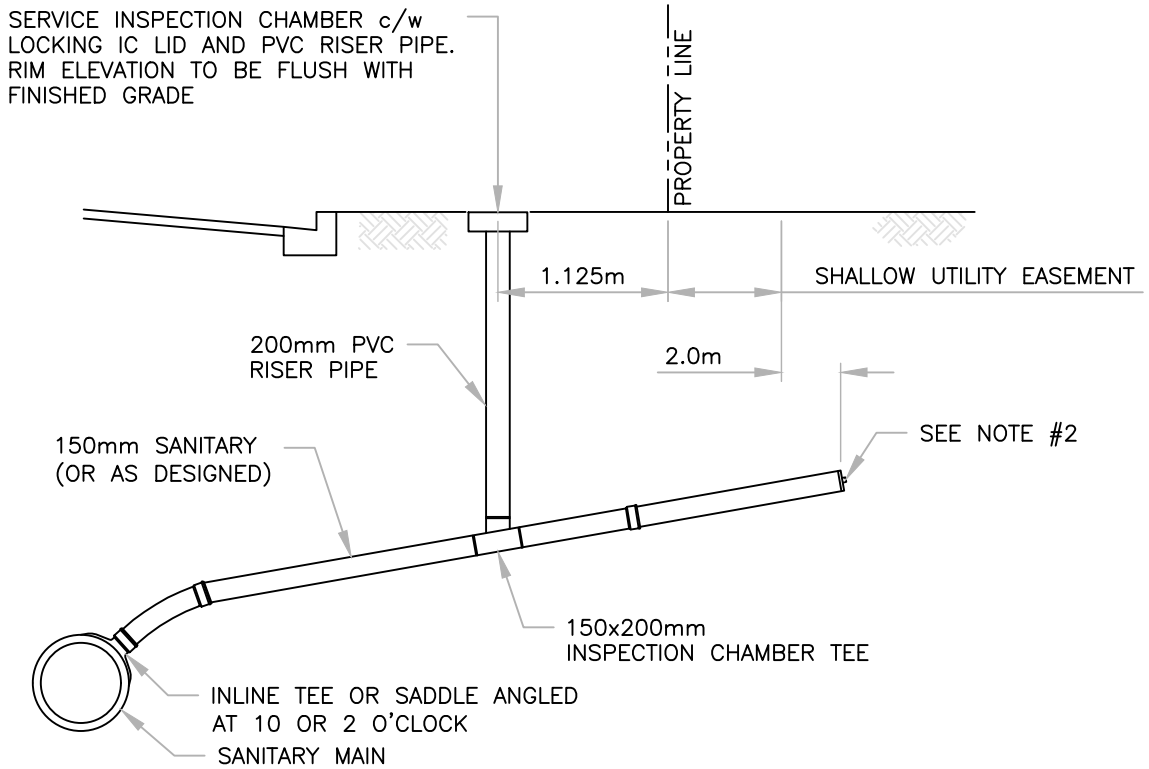


All dimensions in meters unless otherwise noted



5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>STANDARD SANITARY LATERAL CLEANOUT</b>
4					CHECKED BY: B. BIRTCH			
3					APPROVED:			
2					MANAGER OF ENGINEERING TOWN OF CANMORE			
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB			SCALE: NTS
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			FIGURE NO.: SS 5.1

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 5 - SANITARY SYSTEM (SS.XX)\SS 5.2.DWG



**NOTES**

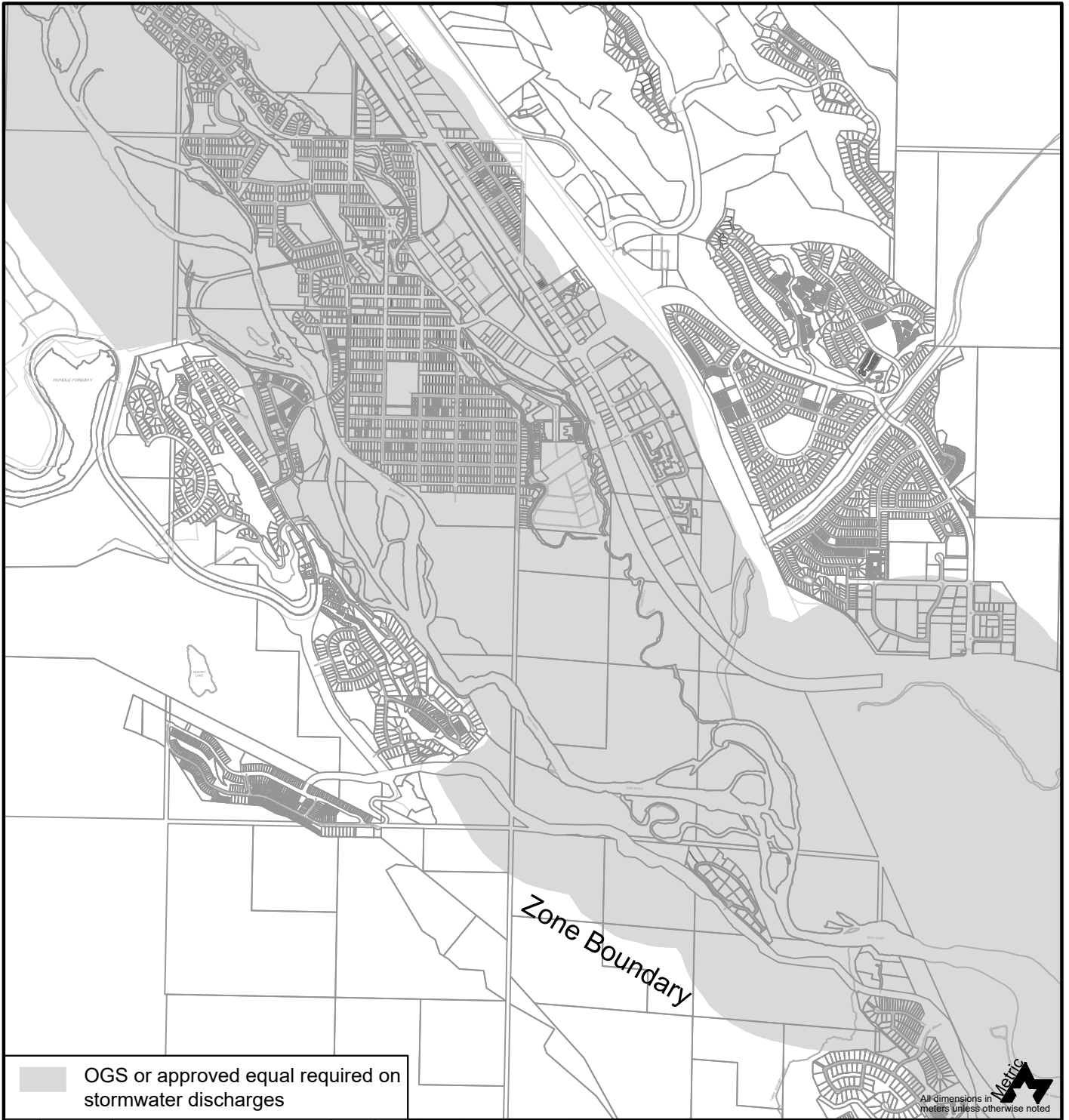
1. TOWN OF CANMORE IS NOT RESPONSIBLE FOR OWNERSHIP OR MAINTENANCE OF SERVICE ON PRIVATE PROPERTY.
2. SEWER SERVICE MUST BE CAPPED.
3. INSTALL SERVICE PIPE FROM PLUG TO THE BUILDING CONNECTION
  - MAX. SLOPE = 2.0%
  - MAX. BEND = 45°
  - MAX. NUMBER OF BENDS = 2

All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	<b>COMMERCIAL/INDUSTRIAL SANITARY INSPECTION CHAMBER</b>
4						CHECKED BY: B. BIRTCH		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: SS 5.2



DRAWING NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 6 - STORMWATER (STM\_XX)\STM\_6.1.DWG



OGS or approved equal required on stormwater discharges

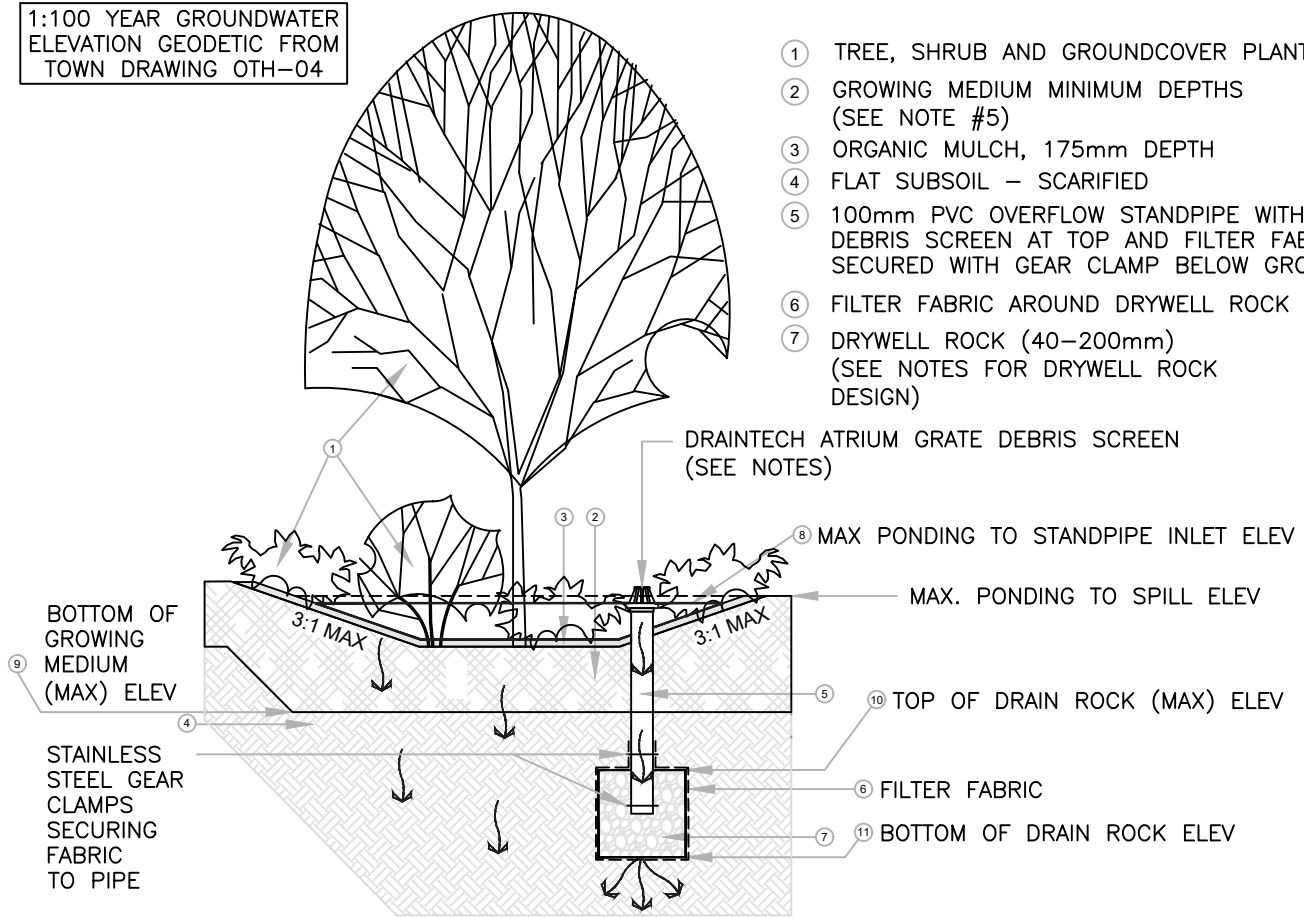
All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	<b>Town of CANMORE</b> <b>500m OGS INFILTRATION ZONE</b>
4	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	B. MORVAN	AUG 2019	
3	04/27/01	2001 Engineering Design Standards	DMG	DMG	DAB	CHECKED BY: B. BIRTCH		
2	03/17/01	2000 Engineering Design Standards	MAR	DAB	DAB	APPROVED:		
1	05/05/98	1998 Engineering Design Standards	KRB	KRB	DRJ	_____ MANAGER OF ENGINEERING TOWN OF CANMORE		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	SCALE: NTS		FIGURE NO.: STM 6.1

Town of Canmore  
**Engineering Design & Construction Guidelines**

1:100 YEAR GROUNDWATER  
ELEVATION GEODETIC FROM  
TOWN DRAWING OTH-04

- ① TREE, SHRUB AND GROUNDCOVER PLANTINGS
- ② GROWING MEDIUM MINIMUM DEPTHS  
(SEE NOTE #5)
- ③ ORGANIC MULCH, 175mm DEPTH
- ④ FLAT SUBSOIL – SCARIFIED
- ⑤ 100mm PVC OVERFLOW STANDPIPE WITH  
DEBRIS SCREEN AT TOP AND FILTER FABRIC  
SECURED WITH GEAR CLAMP BELOW GROUND
- ⑥ FILTER FABRIC AROUND DRYWELL ROCK
- ⑦ DRYWELL ROCK (40–200mm)  
(SEE NOTES FOR DRYWELL ROCK  
DESIGN)



**NOTES**

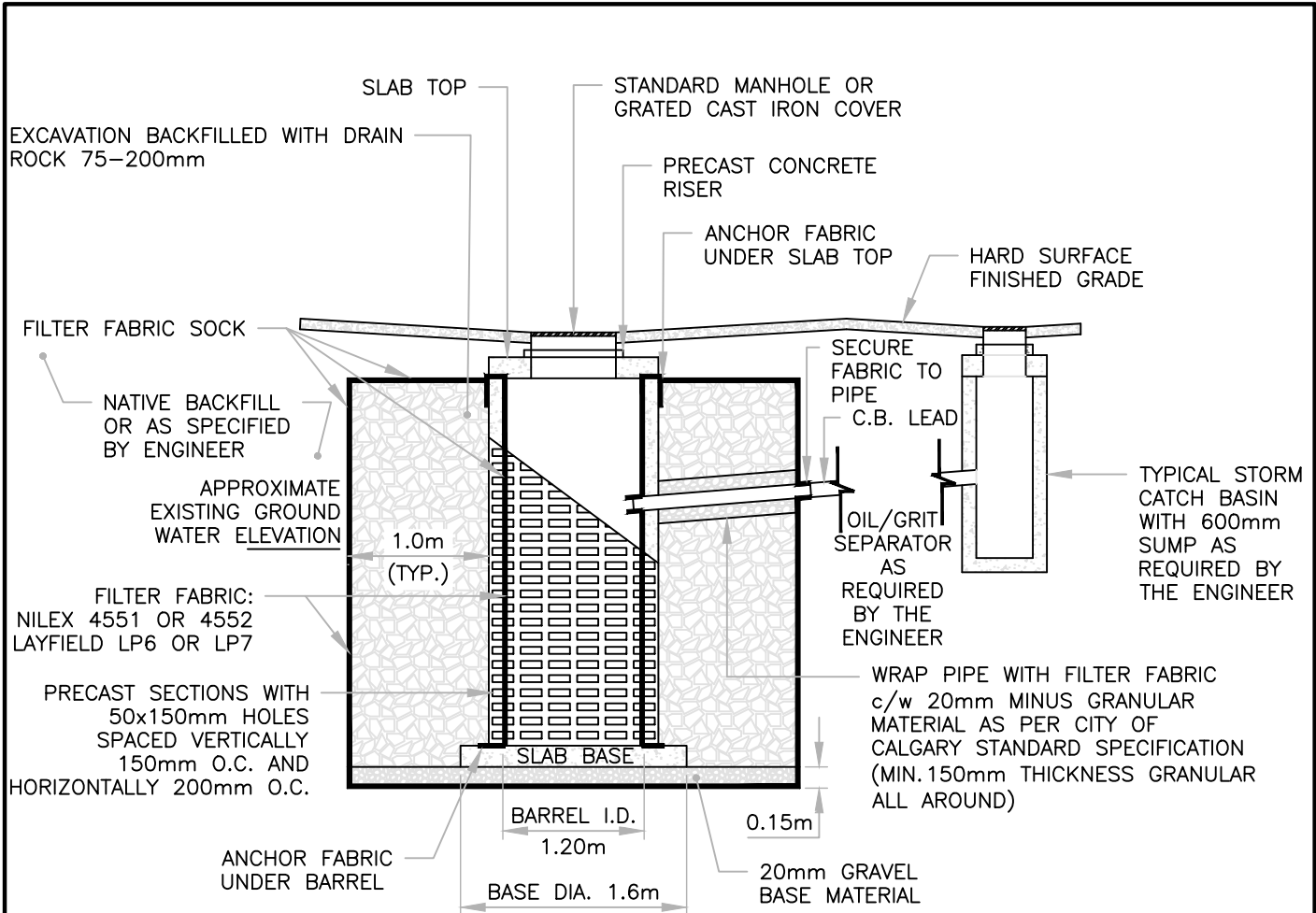
1. ALL STORMWATER RUNOFF GENERATED BY THE SITE NEEDS TO BE DISPOSED OF ON SITE.
2. INFILTRATION AS SHOWN ON THIS DETAIL SHALL ALWAYS BE THE PRIMARY CHOICE OF RUNOFF DISPOSAL, PARTICULARLY FOR ALL LOW LYING AREAS CANMORE (TEE PEE TOWN, SOUTH CANMORE, RUNDLE, LARCH ETC). OTHER AREAS WHERE THE GEOTECHNICAL PROPERTIES OF THE SOIL PREVENT INFILTRATION WILL BE HANDLED ON A CASE BY CASE BASIS.
3. ALL EFFORTS ARE TO BE MADE TO SEPARATE ROOF AND LANDSCAPING RUNOFF FROM RUNOFF THAT HAS TRAVELED ACROSS A VEHICLE CARRIAGE WAY.
4. ALL LAND AREAS THAT SLOPE TOWARDS THE PROPERTY OR CONTRIBUTE RUNOFF TO THE SITE ARE TO BE TAKEN INTO ACCOUNT FOR DRAINAGE CALCULATIONS.
5. GROWING MEDIUM (SHOWN IN ILLUSTRATION AS #2):
  - a. 300MM DEPTH FOR ALL LANDSCAPE AND ROOF ONLY RUNOFF (1 DRIVEWAY ACCEPTABLE, BUT NOT DESIRABLE).
  - b. 450MM DEPTH FOR ALL RUNOFF INCLUDING VEHICLE CARRIAGE WAYS AND MULTIPLE DRIVEWAYS.
6. ELEVATIONS ARE REQUIRED FOR ALL INDIVIDUAL RAIN GARDENS.
7. DRYWELL ROCK TO BE 40–200mm GRADED GRANULAR MATERIAL.

All dimensions in meters unless otherwise noted

DRAWING\_NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 6 - STORMWATER (STM\_XX)\STM 6.2.DWG

5						DRAWN:	DATE:	<p><b>RAIN GARDEN: FULL INFILTRATION (TYPICAL SECTION)</b></p>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2					B. BIRTCH			
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS
								FIGURE NO.: STM 6.2

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 6 - STORMWATER (STM\_XX)\STM\_6.3.DWG



**NOTES**

1. DRYWELL IS PERFORATED, AND MAY BE USED WITH OR WITHOUT CATCHBASIN.
2. DRYWELL DEPTH, DRAIN ROCK DIAMETER AND PERFORATED PIPE LENGTH TO BE CALCULATED FOR SPECIFIC SITE RUNOFF, NATIVE SOIL INFILTRATION RATE AND GROUNDWATER ELEVATION. CALCULATIONS TO BE SUBMITTED TO ENGINEER FOR ACCEPTANCE AND APPLIED TO DESIGN DRAWINGS.
3. FILTER FABRIC SOCK INSIDE PRECAST BARREL TO BE ANCHORED TOP AND BOTTOM BETWEEN CONCRETE SLAB AND BARREL UNITS.
4. FABRIC TO BE OVERLAPPED AT SEAMS AND STITCHED TOGETHER TO PREVENT MATERIAL AND DEBRIS BYPASSING THE FABRIC.
5. SECURE FABRIC TO PIPE WITH STAINLESS STEEL STRAP OR CLAMP.


All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	 <b>TYPICAL DRAINAGE WELL</b>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2					B. BIRTCH			
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: STM 6.3

DRAWING NAME: F:\EDCG (5320)\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\DWG\STR 7.1.DWG

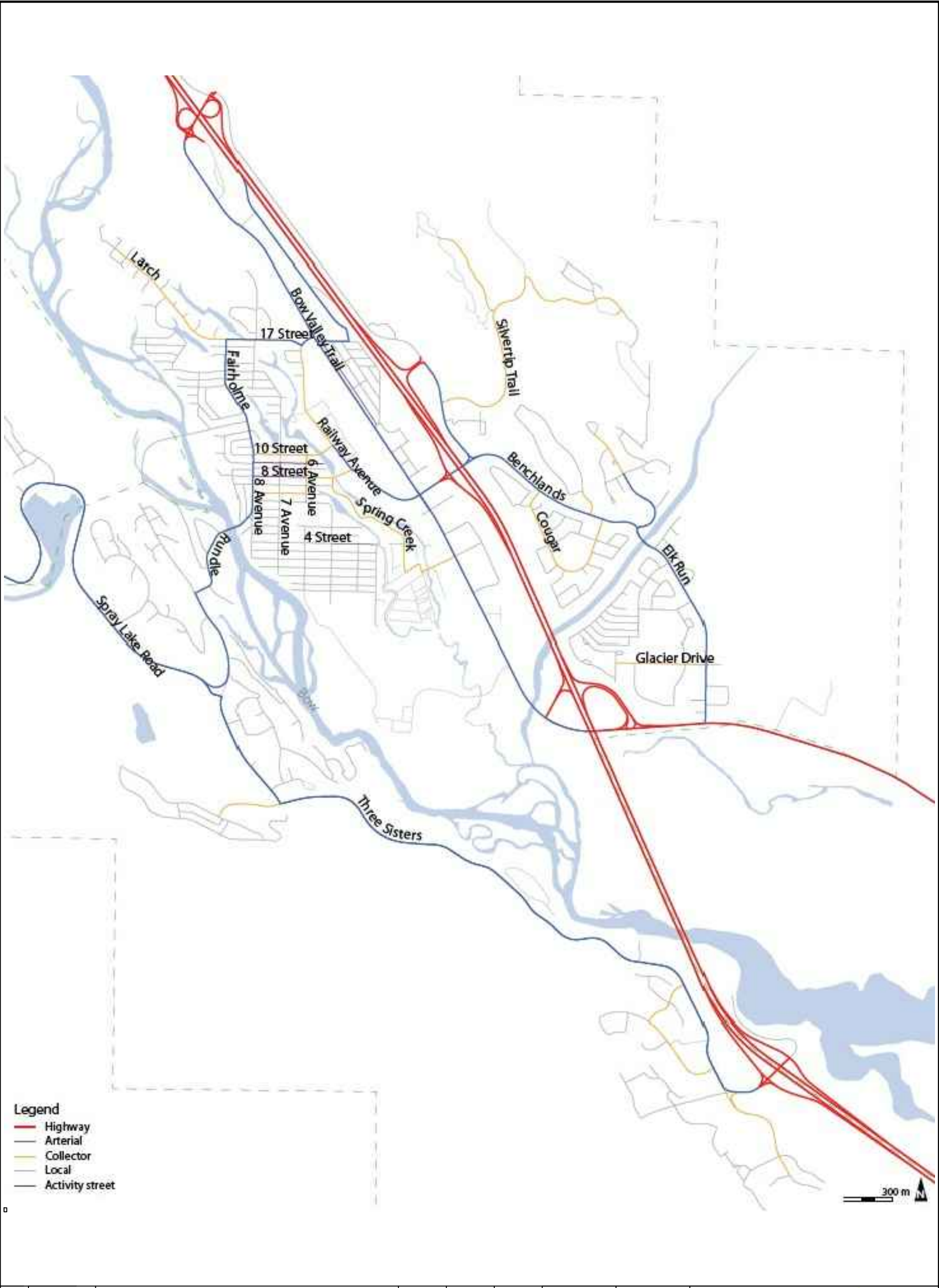
DESIGN ELEMENTS FOR URBAN THOROUGHFARES			
TOWN OF CANMORE CLASSIFICATIONS:	LOCAL (RESIDENTIAL)	COLLECTOR	ARTERIAL
PARKING	PARKING BOTH SIDES (IN BAYS)	PARKING BOTH SIDES (IN BAYS)	NO PARKING
SHEET NO.	STR 7.3	STR 7.5	STR 7.6
TAC CLASSIFICATION	ULU 30	–	UAD 50
DESIGN/POSTED SPEED (km/h)	30	30	50
BASIC ROW WIDTH (m)	15.30	22.00	30.00
BASIC PAVEMENT WIDTH (m)(1)	5.50	6.60	6.00
TRAVEL LANE WIDTH (m)(2)	2.75	3.30	3.00
PARKING LANE WIDTH (m)(3)	1.95	1.95	–
STRAIGHT FACED CURB AND GUTTER WIDTH (m)	0.40	0.40	0.40
CONCRETE INVERT CROSSING WIDTH (m)	0.50	0.50	0.50
MEDIAN WIDTH (m)	–	–	3.90
MINIMUM RADIUS (m)	20.00	20.00	80.00
MINIMUM RATE OF VERTICAL CURVATURE – K	2	2	7
MAXIMUM SUPERELEVATION – e (m/m)	–	–	0.02
MAXIMUM GRADE (%)	8.00	8.00	7.00
MINIMUM STOPPING DISTANCE – ssd (m)	35.00	35.00	65.00
SIDEWALK WIDTH (m)	1.80	1.80–2.50	1.80–3.00
SIDEWALK STYLE	BOULEVARD	BOULEVARD	BOULEVARD


- (1) EXCLUDING TURN BAYS AND PARKING BAYS.  
 (2) TRAVEL LANE MEASURED FROM LIP OF GUTTER. TRAVEL LANES MAY REQUIRE WIDENING ON CURVES.  
 (3) BACK OF CONCRETE INVERT CROSSING TO FACE OF CURB.  
 (4) MINIMUM RADII SHOWN ARE FOR +0.04 SUPERELEVATION. MINIMUM RADII AND SUPERELEVATION TO BE DETERMINED BY DESIGNER FOR EACH CASE TO ENSURE APPROPRIATE VEHICLE SPEED.

5						DRAWN:	DATE:	 <b>DESIGN ELEMENTS FOR URBAN THOROUGHFARES</b>	
4						B. MORVAN	DEC 2019		
3						CHECKED BY:			
2						ISL ENGINEERING & LAND SERVICES, LTD			
1	12/09/19	2019 EDCG STANDARDS	BWM	CE	CB	APPROVED:			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS	FIGURE NO.: STR 7.1

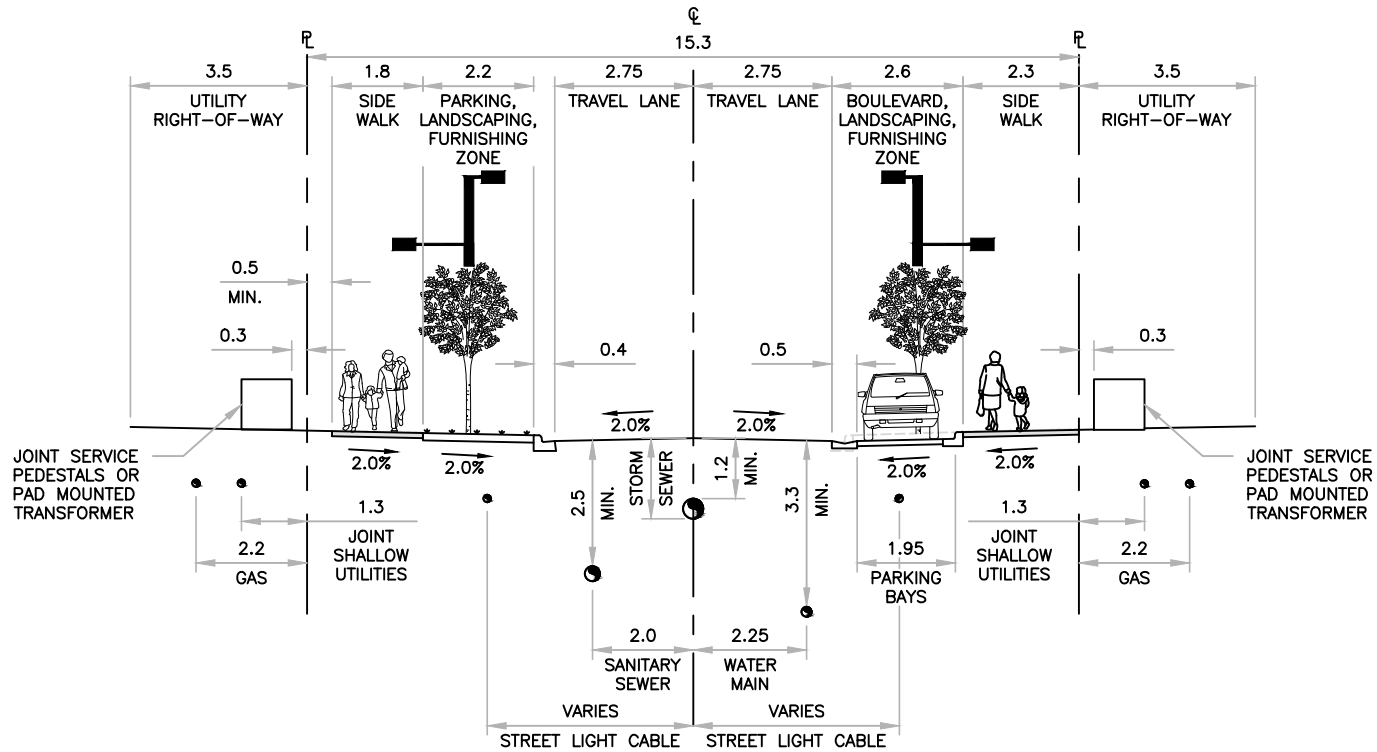


DRAWING NAME: F:\EDCG (5320)\DWGS\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\STR 7.2.DWG



5						DRAWN: B. MORVAN	DATE: DEC 2019	 <b>ROAD CLASSIFICATION</b>
4						CHECKED BY: C. ELICK		
3						APPROVED:		
2								
1	12/10/19	2019 EDCG STANDARDS	BWM	CE	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: STR 7.2

DRAWING\_NAME: F:\EDCG (5320)\SECTION 7 - TRANSPORTATION SYSTEMS (STR\_XX)\DWG\STR 7.3.DWG



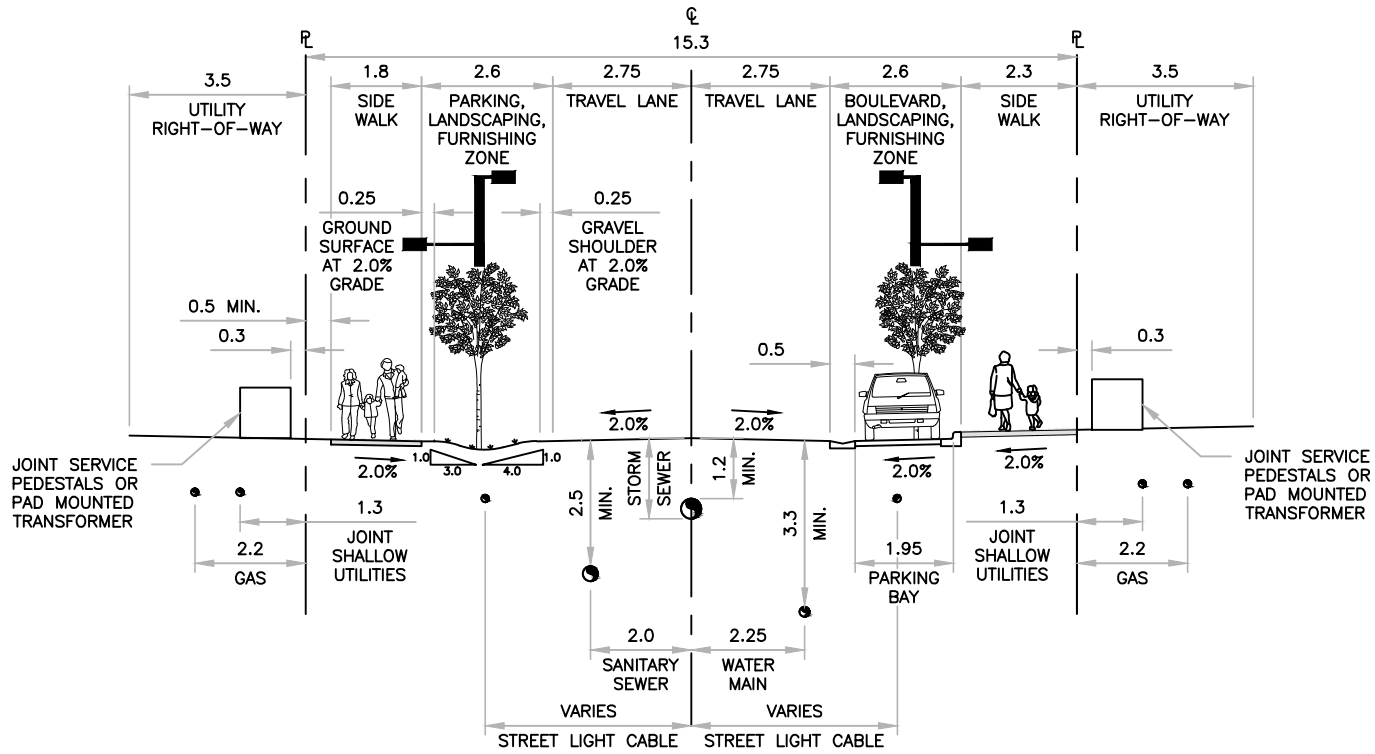
**NOTES**

1. CURB LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER
2. LIGHTING DESIGN TO MEET EDCG SECTION 7.7.
3. CROSS SECTION TO BE APPLIED ONLY WHERE THERE IS NO REAR LANE. SHALLOW UTILITIES TO BE LOCATED IN REAR LANES OR MEWS WHEN PROVIDED.
4. BOULEVARD INCLUDES PARKING BAYS, LANDSCAPING AND FURNISHING ZONE.
5. SEE STR 7.7 FOR PARKING BAY DETAIL.
6. UTILITY RIGHT-OF-WAY TO BE ESTABLISHED BASED ON UTILITY AND ROAD DESIGN.

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	 <b>LOCAL RESIDENTIAL (ULU 50)</b> <b>PARKING BOTH SIDES</b> <b>CROSS-SECTION</b>
4					B. MORVAN	DEC 2019		
3					CHECKED BY:			
2					C. ELLICK			
1	12/10/19	2019 EDCG STANDARDS	BWM	CE	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: 1:150
								FIGURE NO.: STR 7.3

DRAWING\_NAME: F:\EDCG (5320)\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\DWG\STR 7.4.DWG



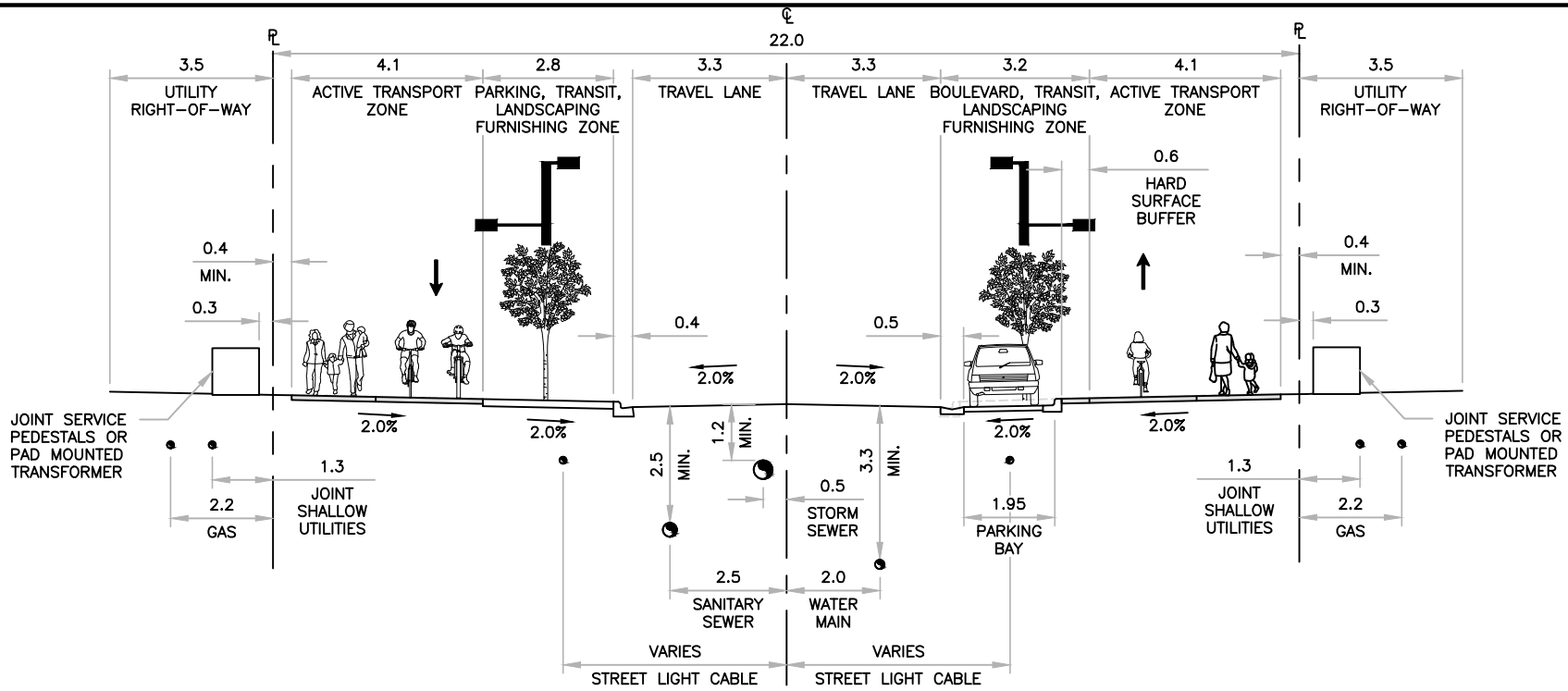
**NOTES**

1. CURB LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER OR EDGE OF PAVEMENT.
2. LIGHTING DESIGN TO MEET EDCG SECTION 7.7.
3. CROSS SECTION TO BE APPLIED ONLY WHERE THERE IS NO REAR LANE. SHALLOW UTILITIES TO BE LOCATED IN REAR OR MEWS LANES WHEN PROVIDED.
4. BOULEVARD INCLUDES PARKING BAYS, LANDSCAPING AND FURNISHING ZONE.
5. SEE STR 7.7 FOR PARKING BAY DETAIL.
6. GRAVEL SHOULDER TO BE CONSTRUCTED TO A LOAD-BEARING CAPACITY OF 38,556kg (85,000lbs).
7. UTILITY RIGHT-OF-WAY TO BE ESTABLISHED BASED ON UTILITY AND ROAD DESIGN.

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	<p><b>LOCAL RURAL RESIDENTIAL PARKING BOTH SIDES CROSS-SECTION</b></p>
4					B. MORVAN	DEC 2019		
3					CHECKED BY: C. ELLICK			
2					APPROVED:			
1	12/11/19	2019 EDCG STANDARDS	BWM	CE	CB	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: 1:150
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			FIGURE NO.: STR 7.4

DRAWING NAME: F:\EDCG (5320)\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\DWG\STR 7.5.DWG



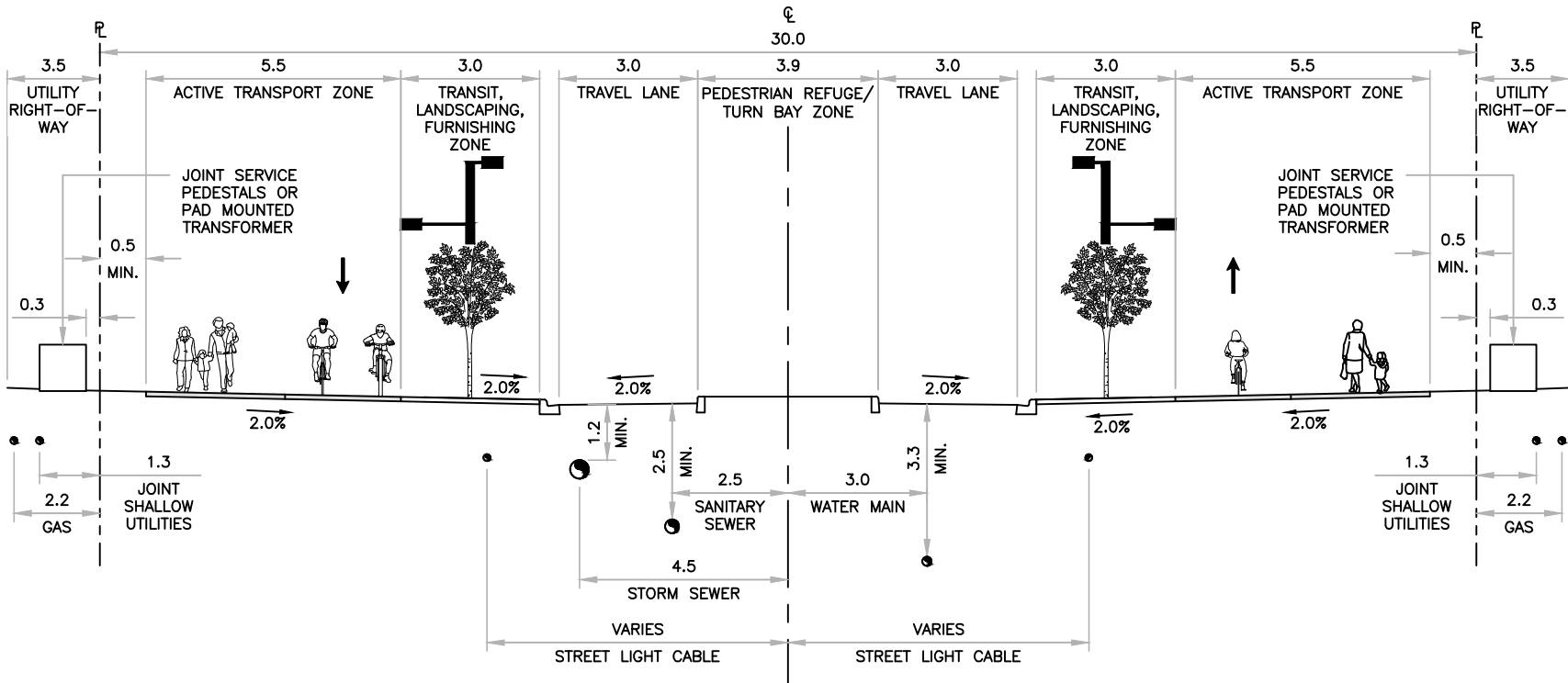
**NOTES**

1. CURB LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER
2. LIGHTING DESIGN TO MEET EDCG SECTION 7.7.
3. ACTIVE TRANSPORTATION FACILITY WIDTHS TO BE DETERMINED BASED ON CONTEXT.
4. CROSS SECTION TO BE APPLIED ONLY WHERE THERE IS NO REAR LANE. SHALLOW UTILITIES TO BE LOCATED IN REAR LANES WHEN PROVIDED.
5. BOULEVARD INCLUDES PARKING BAYS, LANDSCAPING AND FURNISHING ZONE.
6. SEE STR 7.7 FOR PARKING BAY DETAIL.
7. POCKET EASEMENTS MAY BE REQUIRED TO ACCOMMODATE TRANSIT INFRASTRUCTURE, AS DETERMINED BY THE TOWN OF CANMORE.
8. UTILITY RIGHT-OF-WAY TO BE ESTABLISHED BASED ON UTILITY AND ROAD DESIGN.

All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: DEC 2019	 <b>COLLECTOR (UCU 50) PARKING BOTH SIDES CROSS-SECTION</b>
4					CHECKED BY: C. ELLICK			
3					APPROVED:			
2								SCALE: 1:150
1	12/10/19	2019 EDCG STANDARDS	BWM	CE	CB	MANAGER OF ENGINEERING TOWN OF CANMORE		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			





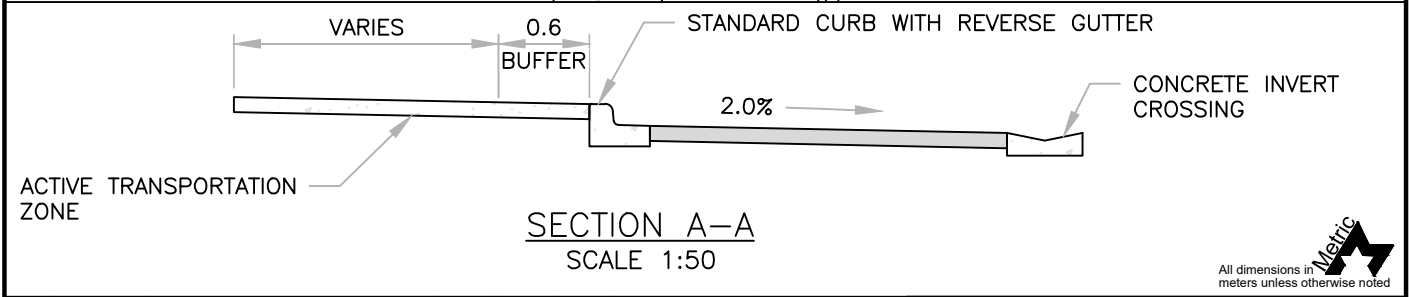
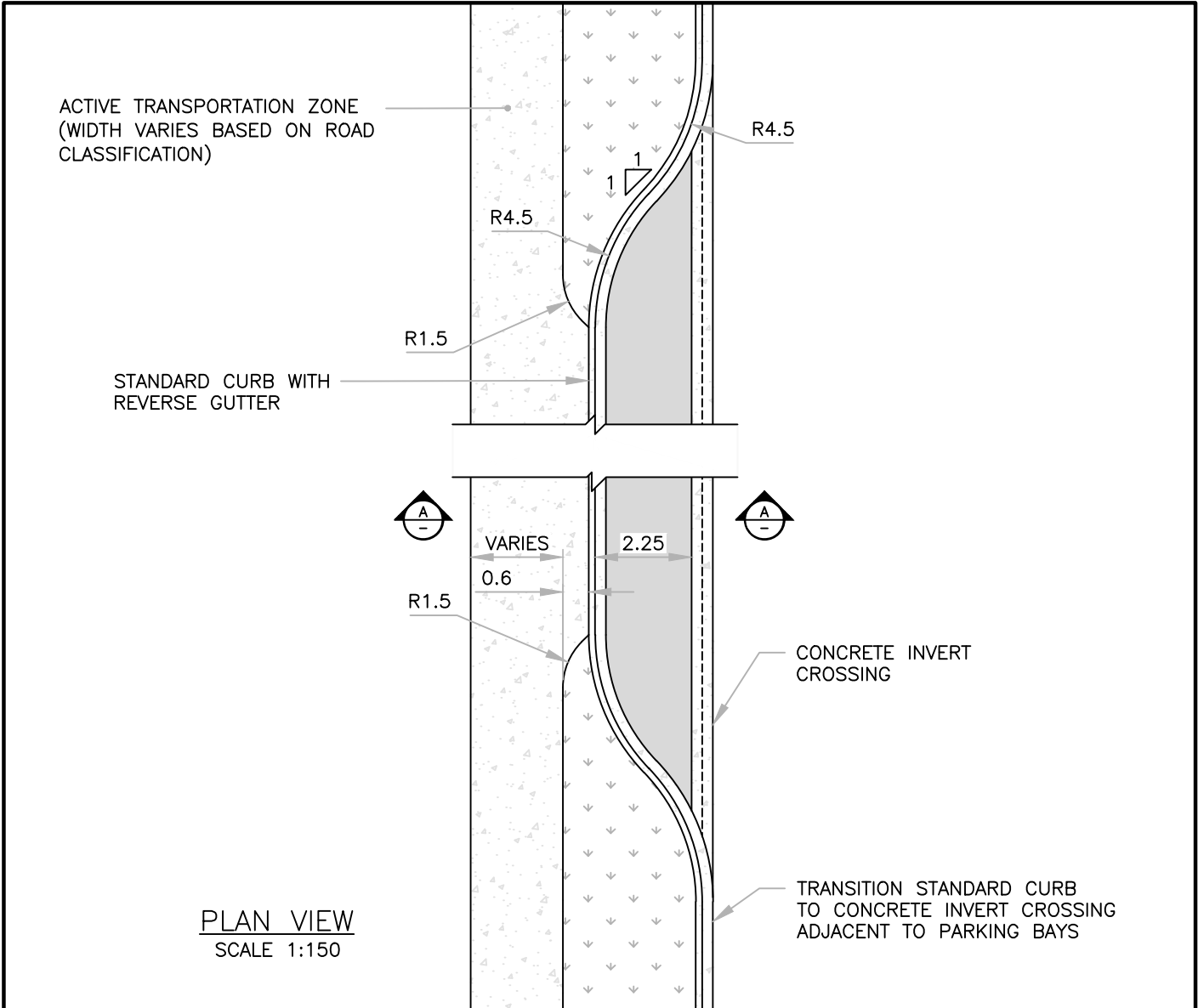
**NOTES**


1. CURB LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER
2. LIGHTING DESIGN TO MEET EDCG SECTION 7.7.
3. CROSS SECTION TO BE APPLIED ONLY WHERE THERE IS NO REAR LANE. SHALLOW UTILITIES TO BE LOCATED IN REAR LANES WHEN PROVIDED.
4. ACTIVE TRANSPORTATION FACILITY WIDTHS TO BE DETERMINED BASED ON CONTEXT.
5. OVERALL R.O.W. WIDTH MAY BE ADJUSTED BASED ON WIDTH OF SIDEWALK FACILITIES, AS DETERMINED BY THE TOWN OF CANMORE.
6. POCKET EASEMENTS MAY BE REQUIRED TO ACCOMMODATE TRANSIT INFRASTRUCTURE, AS DETERMINED BY THE TOWN OF CANMORE.
7. UTILITY RIGHT-OF-WAY TO BE ESTABLISHED BASED ON UTILITY AND ROAD DESIGN.

All dimensions in meters unless otherwise noted

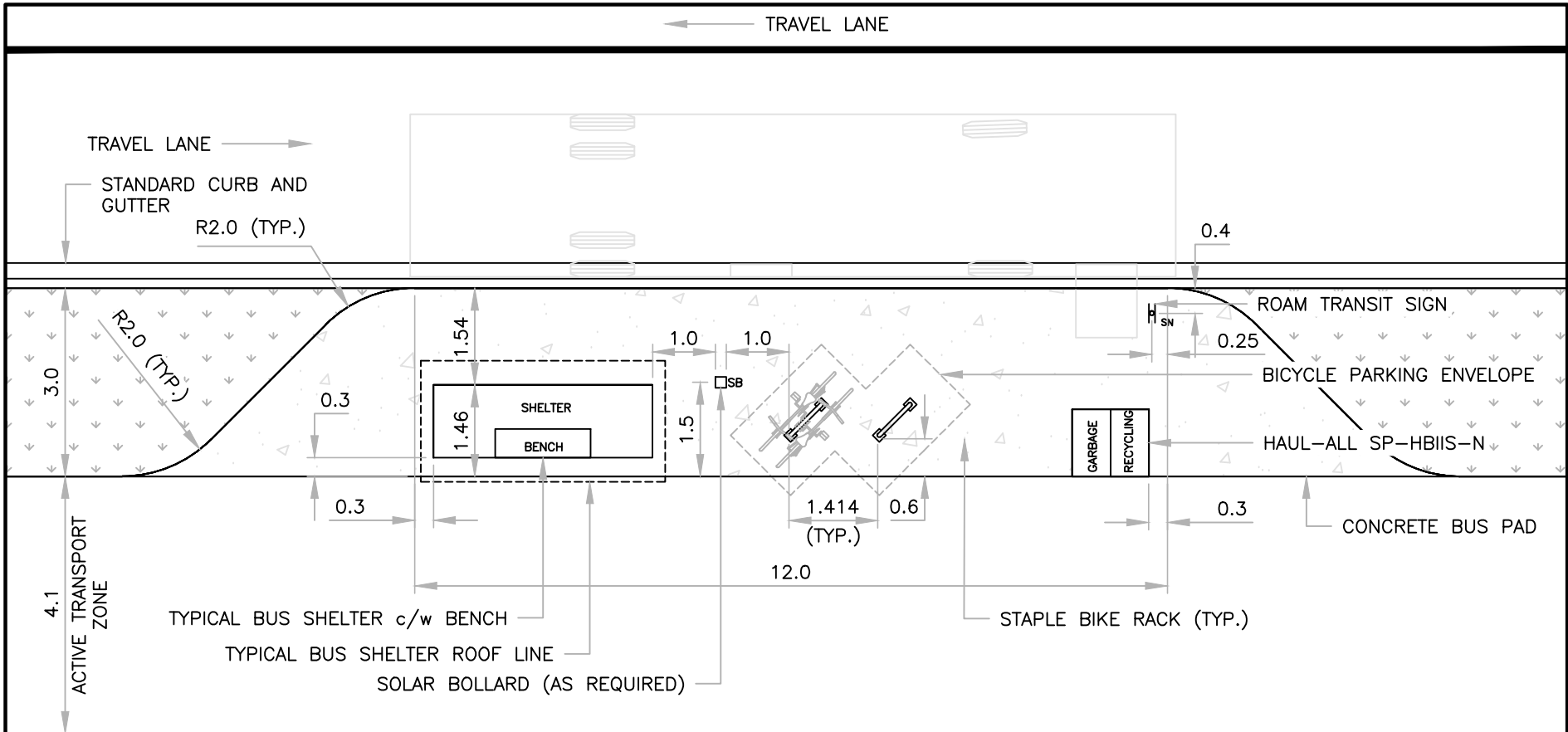
5						DRAWN: B. MORVAN	DATE: DEC 2019	<p style="font-size: 1.2em; font-weight: bold; margin: 0;">ARTERIAL (UAD 50) NO PARKING CROSS-SECTION</p>
4						CHECKED BY: C. ELLICK		
3						APPROVED:		
2						MANAGER OF ENGINEERING TOWN OF CANMORE		
1	12/10/19	2019 EDCG STANDARDS	BWM	CE	CB			SCALE: 1:150
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			FIGURE NO.: STR 7.6

DRAWING\_NAME: F:\EDCG (5320)\DWGS\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\STR 7.7.DWG



5						DRAWN:	DATE:	  <b>PARKING BAY</b>
4					B. MORVAN	DEC 2019		
3					CHECKED BY:			
2					C. ELLICK			
1	12/09/19	2019 EDCG STANDARDS	BWM	CE	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: AS NOTED
							FIGURE NO.:	
							STR 7.7	

DRAWING\_NAME: F:\EDCG (5320)\DWGS\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\STR 7.8.DWG



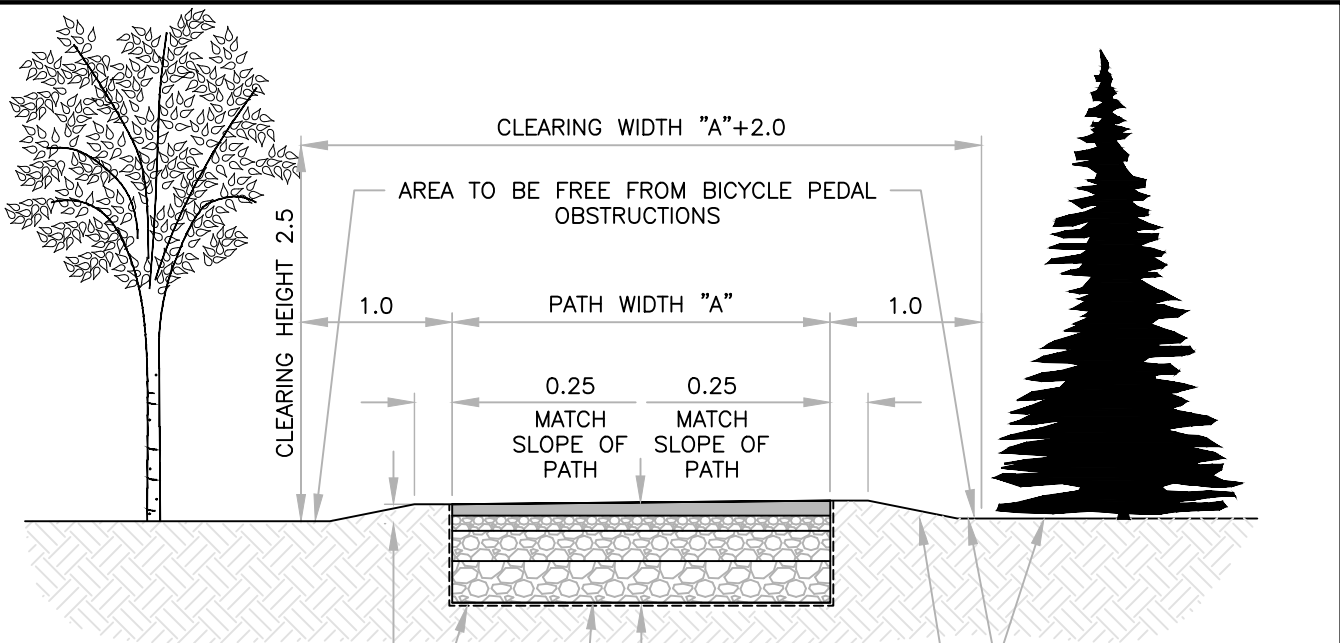
**NOTES**

- 110/120V ELECTRICAL CONNECTION MAY BE REQUIRED FOR INSTALLATION OF "NEXT BUS" SIGN.
- SHELTER DIMENSIONS MAY VARY BASED ON MANUFACTURERS SPECIFICATIONS.

All dimensions in meters unless otherwise noted

5							DRAWN: B. MORVAN	DATE: DEC 2019	 <b>COLLECTOR CONCRETE BUS STOP LAYOUT</b>
4						CHECKED BY: C. ELLICK			
3						APPROVED:			
2									SCALE: 1:100 FIGURE NO.: STR 7.8
1	12/09/19	2019 EDCG STANDARDS	BWM	CE	CB	MANAGER OF ENGINEERING TOWN OF CANMORE			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG				

DRAWING\_NAME: F:\EDCG (5320)\DWGS\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\STR 7.9.DWG



MIN. 150mm ABOVE SURROUNDING GRADES

DO NOT DISTURB EXISTING VEGETATION (TYP. BOTH SIDES)  
 BLEND EXISTING TOPSOIL INTO EXISTING VEGETATION AT A GRADE OF 1:5. TOPSOIL AND SEED ALL DISTURBED AREAS (TYP. BOTH SIDES)

INSTALL POLYSPUN 300 ROOT BARRIER (TYP. ALL SIDES)  
 EXTRA ROOT BARRIER CAN BE BURNED FLUSH WITH GROUND FOLLOWING PAVING, AND PRIOR TO SEEDING


REMOVE ORGANIC MATERIAL TO 500mm DEPTH. REPLACE WITH 275mm OF 75mm PITRUN WHERE OVER EXCAVATED BEYOND STRUCTURE DEPTH.

- 75mm ASPHALT SURFACE HOT MIX "B"
- 100mm BASE OF 20mm CRUSHED GRAVEL COMPACTED TO 95% S.P.D.
- 200mm SUB-BASE OF 75mm MINUS PITRUN COMPACTED TO 95% S.P.D.
- PITRUN
- ROOT BARRIER

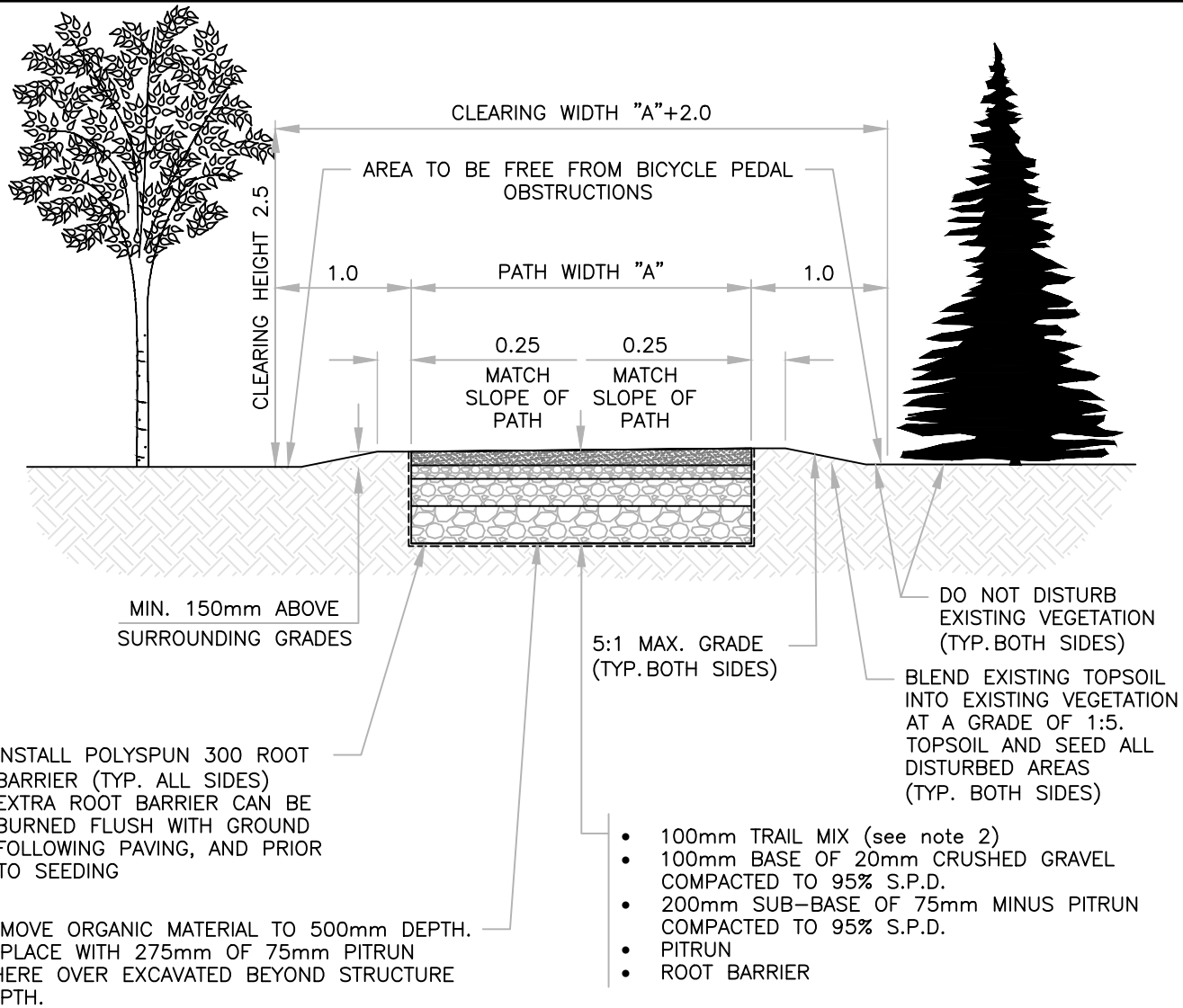
**NOTES**

1. 2% CROSS-SLOPE ORIENTED TOWARDS THE SUN OR DOWNHILL SLOPE, ON PATH AS DIRECTED BY THE TOWN, EXCEPT WHERE SUPERELEVATION IS REQUIRED ON A CURVE.
2. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER FOR THE TRAIL ALIGNMENT AND SUB-BASE (IE: COMPACTION AND DEPTH OF GRAVEL) PRIOR TO SURFACING WITH ASPHALT.
3. USE EXISTING SITE SOIL OVER IMPORTING NEW SOIL WHERE POSSIBLE. ROCKS, DEBRIS AND ROOTS MUST BE REMOVED FROM EXISTING SOIL IF BEING REUSED.
4. IF NEW TOP SOIL IS USED, IT MUST BE WEED-FREE.

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	 <p><b>TYPICAL SHARED-USE PATH CROSS-SECTION - ASPHALT SURFACE</b></p>
4					B. MORVAN	DEC 2019		
3					CHECKED BY:			
2					C. ELLICK			
1	12/09/19	2019 EDCG STANDARDS	BWM	CE	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: 1:50
							FIGURE NO.:	
							STR 7.9	

DRAWING NAME: F:\EDCG (5320)\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\DWG\STR 7.10.DWG



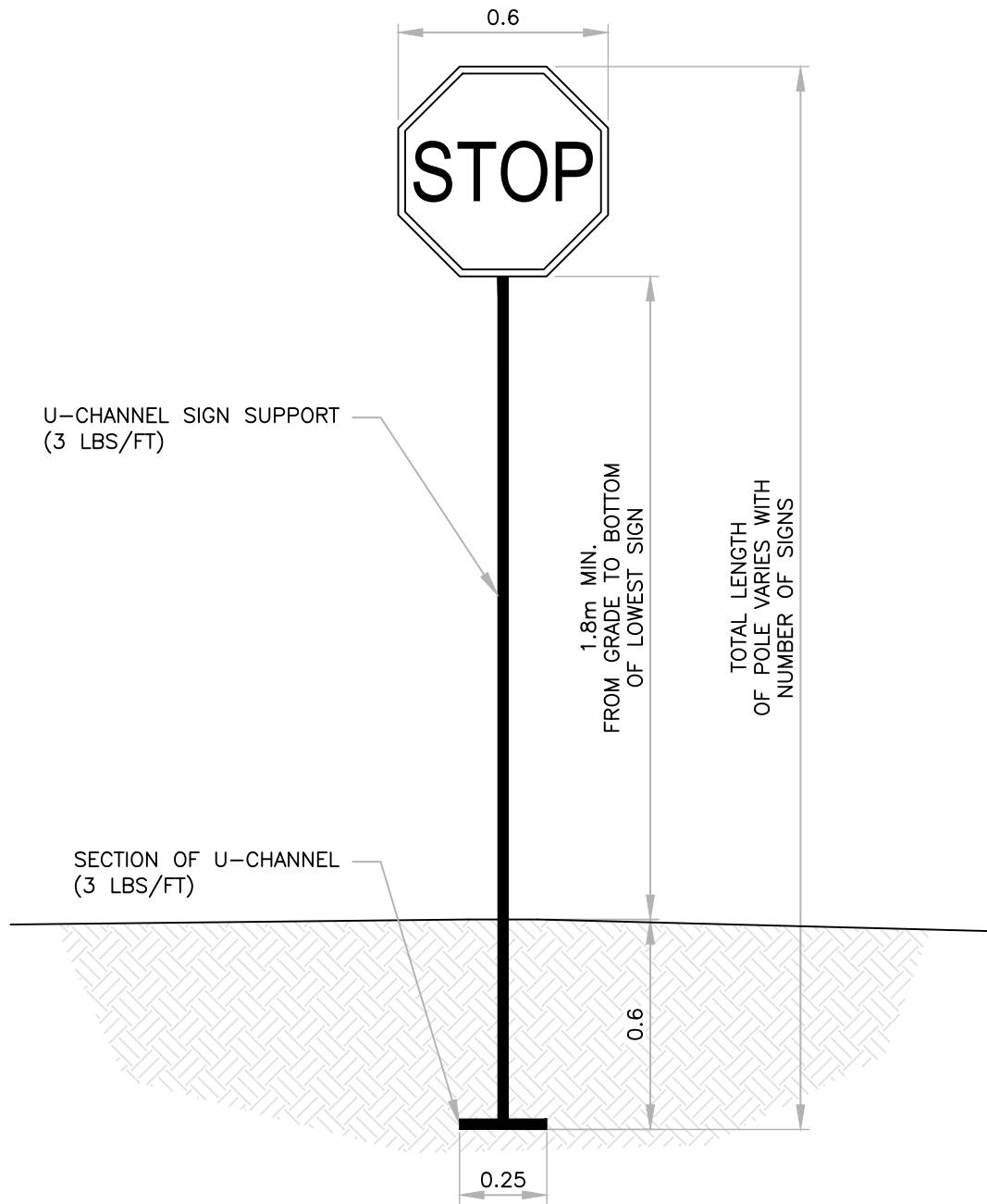
**NOTES**

1. SAMPLE OF THE PROPOSED TRAIL MIX TO BE PROVIDED TO THE ENGINEERING SERVICES 7 DAYS PRIOR TO DELIVERY ON SITE FOR ACCEPTANCE. UPON DELIVERY ON SITE THE TRAIL MIX IS TO BE VERIFIED BY THE ENGINEERING SERVICES TO BE IN COMPLIANCE TO THE STANDARDS AND THE SAMPLE PROVIDED PRIOR TO PLACEMENT.
2. 100mm DEPTH TRAIL MIX: 70% 20mm CRUSHED GRAVEL AND 30% CLAY MIX. THE GRAVEL/CLAY MIXTURE MUST BE BLENDED IN A CONSISTENT MANNER FREE OF LUMPY CLAY. THE CLAY MUST BE SMOOTH AND POWDERED IN CONSISTENCY AND UNIFORMLY BLENDED WITH THE 20mm CRUSHED GRAVEL.
3. 2% CROSS SLOPE ORIENTED TOWARDS THE SUN OR DOWNHILL SLOPES.
4. USE EXISTING SITE SOIL OVER IMPORTING NEW SOIL WHERE POSSIBLE.
5. ROCKS, DEBRIS AND ROOTS TO BE REMOVED FROM EXISTING SOIL IF BEING REUSED.
6. POLYSPUN 300 ROOT BARRIER TO BE INSTALLED IN AREAS WHERE POPLARS, WOLF WILLOW AND OTHER SUCKERING VEGETATION ARE PRESENT.
7. NEW SOIL IF USED MUST BE WEED-FREE.
8. PATH WIDTH "A" MAY BE 1.5-2.5m, AS SPECIFIED BY TOWN.
9. SALVAGED BOULDERS ARE TO BE SET ASIDE FOR USAGE ONSITE AS DIRECTED BY THE ENGINEER.

All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: DEC 2019	<p style="font-size: 1.2em; font-weight: bold; margin: 0;">TYPICAL SHARED-USE PATH CROSS-SECTION - GRAVEL/CLAY SURFACE</p>	
4	12/09/19	2019 EDCG STANDARDS	BWM	LG	CB	CHECKED BY: L. GUEST			
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	APPROVED:			
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB				
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ				
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: 1:50	FIGURE NO.: STR 7.10

DRAWING\_NAME: F:\EDCG (5320)\DWGS\SECTION 7 - TRANSPORTATION SYSTEMS (STR XX)\STR 7.11.DWG



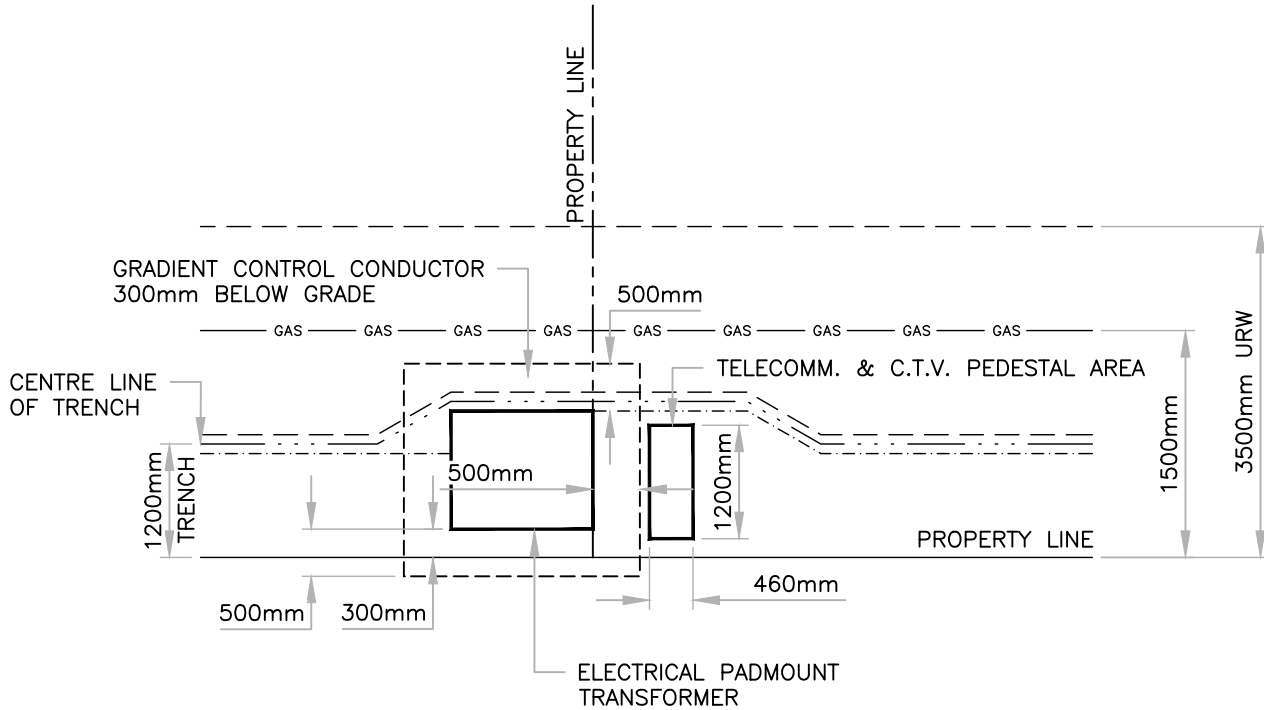
**NOTES**

1. ALL SIGNS TO BE ORIENTED AND INSTALLED IN ACCORDANCE WITH TAC AND MUTCDC GUIDANCE.
2. AN ALTERNATE FLUSH MOUNT BASE FOR U-CHANNEL SIGN SUPPORT MAY BE CONSIDERED FOR MOUNTING ON 10cm CONCRETE SIDEWALK. CONTACT ENGINEERING DEPARTMENT FOR APPROVAL AND DETAILS.
3. CROSSWALK SIGNS SHALL BE FITTED WITH REFLECTIVE PANELS, BRITESIDE MODEL BSX-372DGFYG DIAMOND GRADE 4083 YELLOW OR APPROVED EQUAL TO SUIT MOUNTING ON BOTH SIDES OF POST.
4. U-CHANNEL "T" TO BE BOLTED TO SIGN SUPPORT USING SINGLE 1-1 1/2" GRADE 8 5/16" BOLT WITH NUT.
5. MINIMUM 0.5m OFFSET FROM EDGE OF ANY SIDEWALK, CYCLING FACILITY OR CURB RAMP.

All dimensions in meters unless otherwise noted

5	12/09/19	2019 EDCG STANDARDS	BWM	CE	CB	DRAWN: B. MORVAN	DATE: DEC 2019	 <b>TYPICAL STREET SIGN INSTALLATION</b>
4	05/10/10	2010 EDCG STANDARDS	SP	PN	PN	CHECKED BY: C. ELLICK		
3	11/29/04	2005 ENGINEERING DESIGN STANDARDS	PL	OR	OR	APPROVED:		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB			
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: 1: 20
								FIGURE NO.: STR 7.11

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 8 - SHALLOW UTILITIES (SHU XX)\SHU 8.1.DWG




**NOTE:**

STREET LIGHTING POLES, TRANSFORMER BOXES AND OTHER SURFACE STRUCTURES SHALL MAINTAIN A MIN. OF 3.0m CLEARANCE FROM HYDRANT.

ELECTRICAL PADMOUNT = 1.168 X 1.016  
 TELEPHONE PEDESTAL = 0.330 X 0.406  
 C.T.V. PEDESTAL = 0.330 X 0.406

All dimensions in meters unless otherwise noted

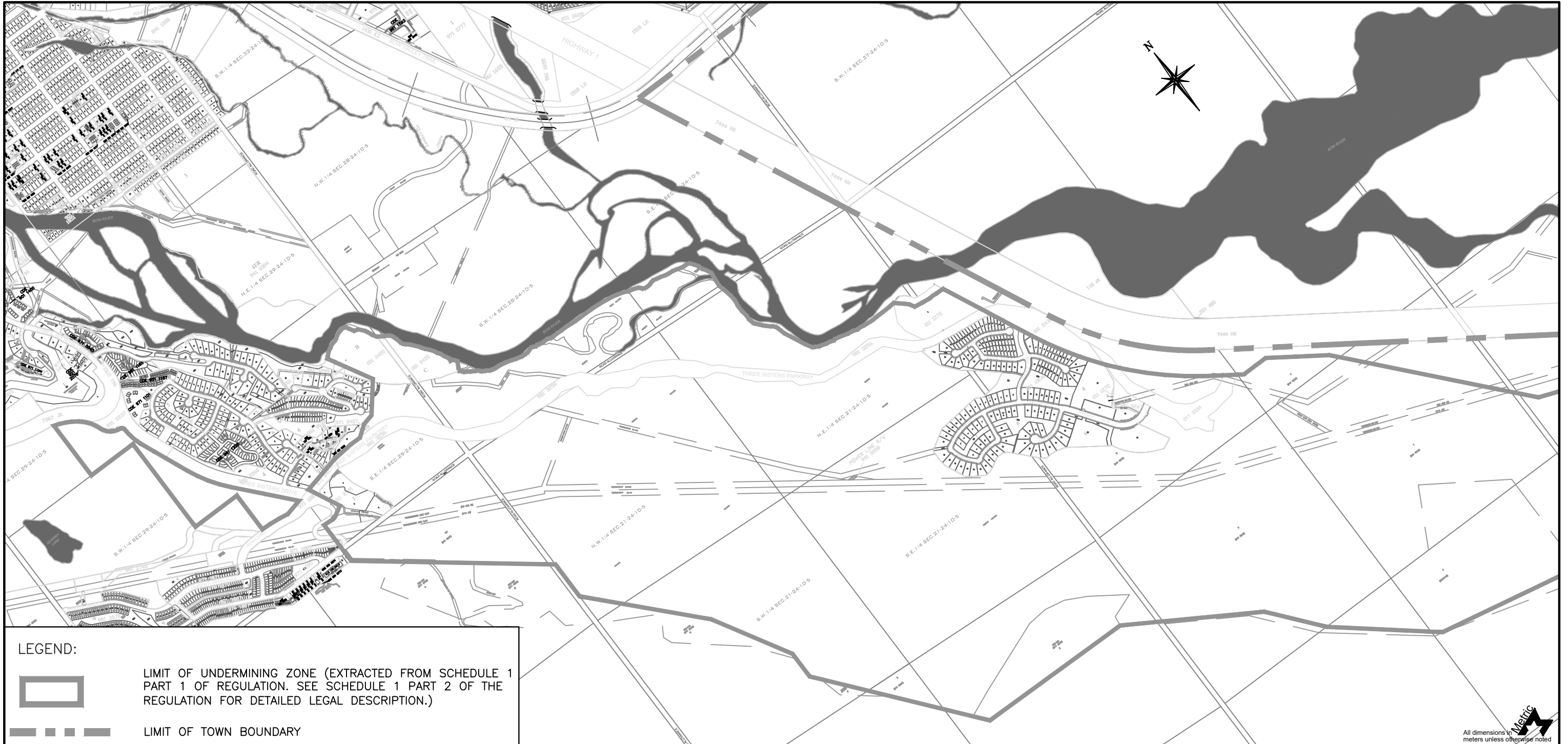


5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>STANDARD PLACEMENT SERVICE                  PEDESTAL AND TRANSFORMER                  3.500 FRONT YARD U.R.W.</b>
4						CHECKED BY: B. KINZIE		
3	08/14/19	2019 EDCG STANDARDS	BWM	BK	CB			
2	03/17/00	Engineering Design Standards	MAR	DAB	DAB			
1	05/05/98	1998 Engineering Design Standards	KRB	KRB	DRJ			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: SHU 8.1


Town of Canmore  
**Engineering Design & Construction Guidelines**




DRAWING NAME: F:\EDCG (5320)\SECTION 9 - HAZARDS AND LOCAL CONDITIONS (HLC\_XX)\DWG\HLC\_9.1.DWG




**LEGEND:**

 LIMIT OF UNDERMINING ZONE (EXTRACTED FROM SCHEDULE 1 PART 1 OF REGULATION. SEE SCHEDULE 1 PART 2 OF THE REGULATION FOR DETAILED LEGAL DESCRIPTION.)

 LIMIT OF TOWN BOUNDARY

5								
4								
3								
2	05/12/20	2020 EDCG STANDARDS	BWM	BB	CB			
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG			

<b>DRAWN:</b> B. MORVAN	<b>DATE:</b> MAY 2020
<b>CHECKED BY:</b> B. BIRCH	
<b>APPROVED:</b>  MANAGER OF ENGINEERING TOWN OF CANMORE	

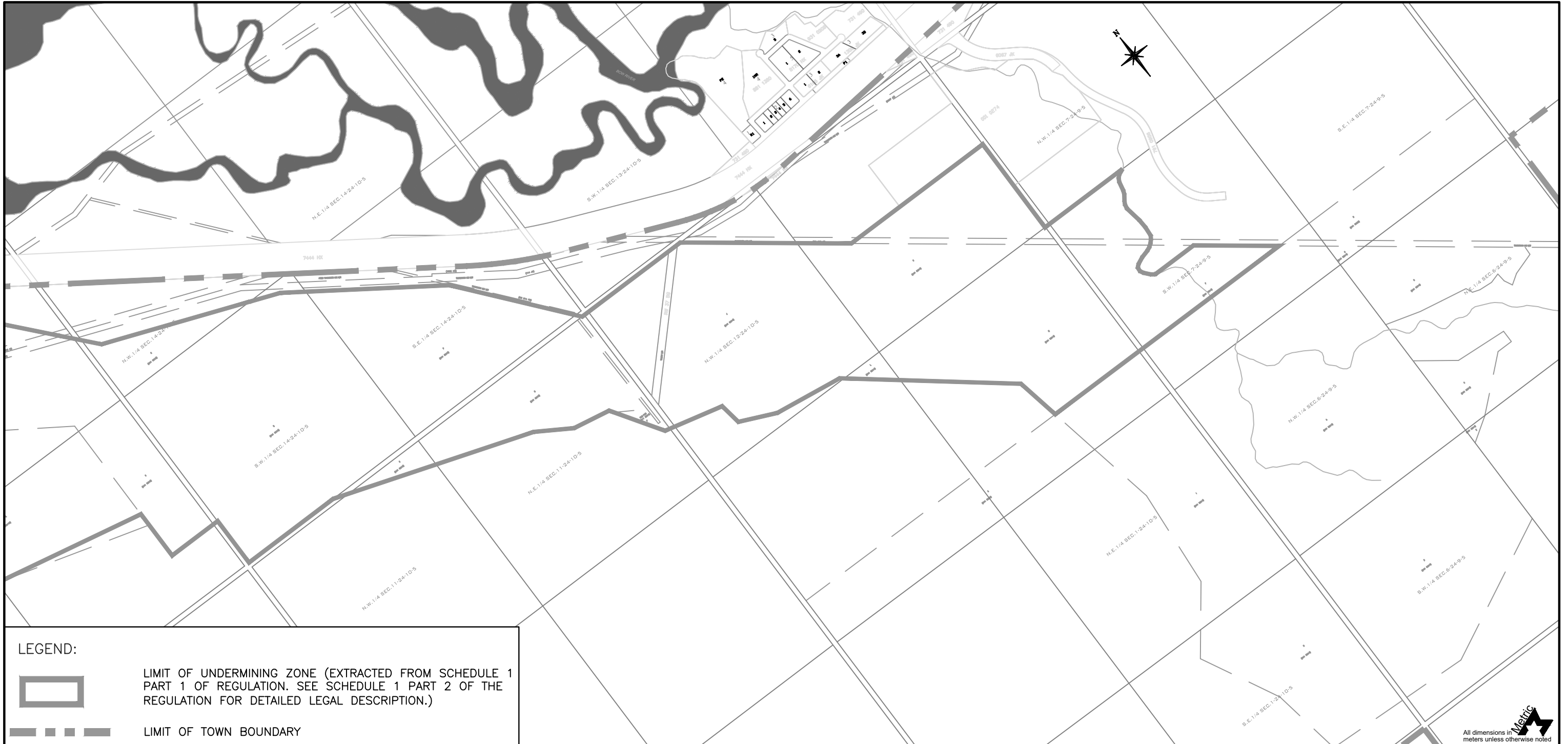
  
**CANMORE UNDERMINING  
 REVIEW REGULATION  
 DESIGNATED LAND**

**SCALE:** NTS      **FIGURE NO.:** HLC 9.1


All dimensions in meters unless otherwise noted




DRAWING NAME: F:\EDCG (5320)\SECTION 9 - HAZARDS AND LOCAL CONDITIONS (HLC\_XX)\DWG\HLC 9.2.DWG




**LEGEND:**

 LIMIT OF UNDERMINING ZONE (EXTRACTED FROM SCHEDULE 1 PART 1 OF REGULATION. SEE SCHEDULE 1 PART 2 OF THE REGULATION FOR DETAILED LEGAL DESCRIPTION.)

 LIMIT OF TOWN BOUNDARY

5						
4						
3						
2	05/12/20	2020 EDCG STANDARDS	BWM	BB	CB	
1	08/14/19	2019 EDCG STANDARDS	BWM	BB	CB	
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	

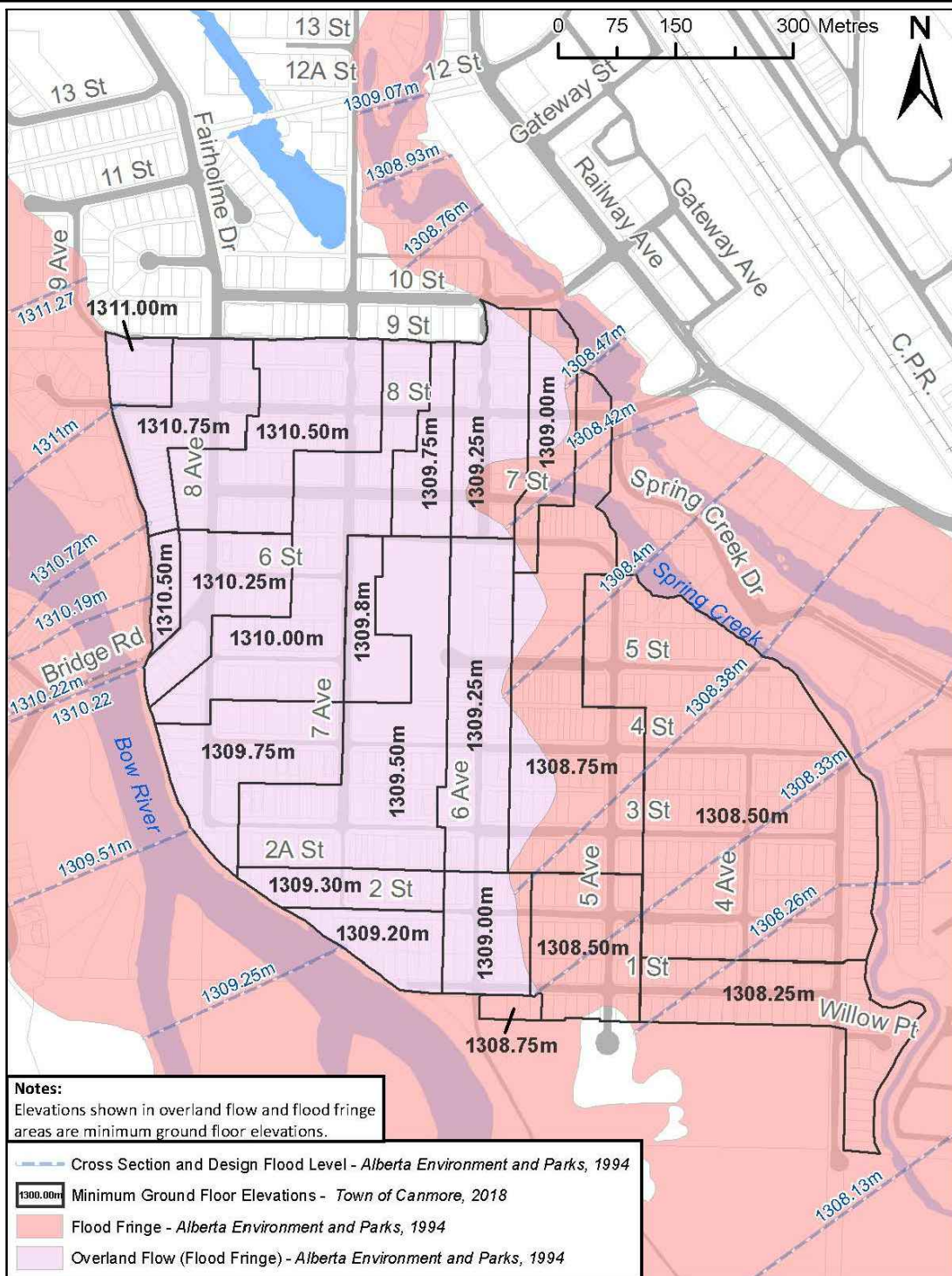
<b>DRAWN:</b> B. MORVAN	<b>DATE:</b> MAY 2020
<b>CHECKED BY:</b> B. BIRCH	
<b>APPROVED:</b>  MANAGER OF ENGINEERING TOWN OF CANMORE	

  
**CANMORE UNDERMINING  
 REVIEW REGULATION  
 DESIGNATED LAND**


**SCALE:** NTS      **FIGURE NO.:** HLC 9.2

All dimensions in meters unless otherwise noted

DRAWING NAME: F:\EDCG (5320)\SECTION 9 - HAZARDS AND LOCAL CONDITIONS (HLC XX)\DWG\HLC 9.10.DWG



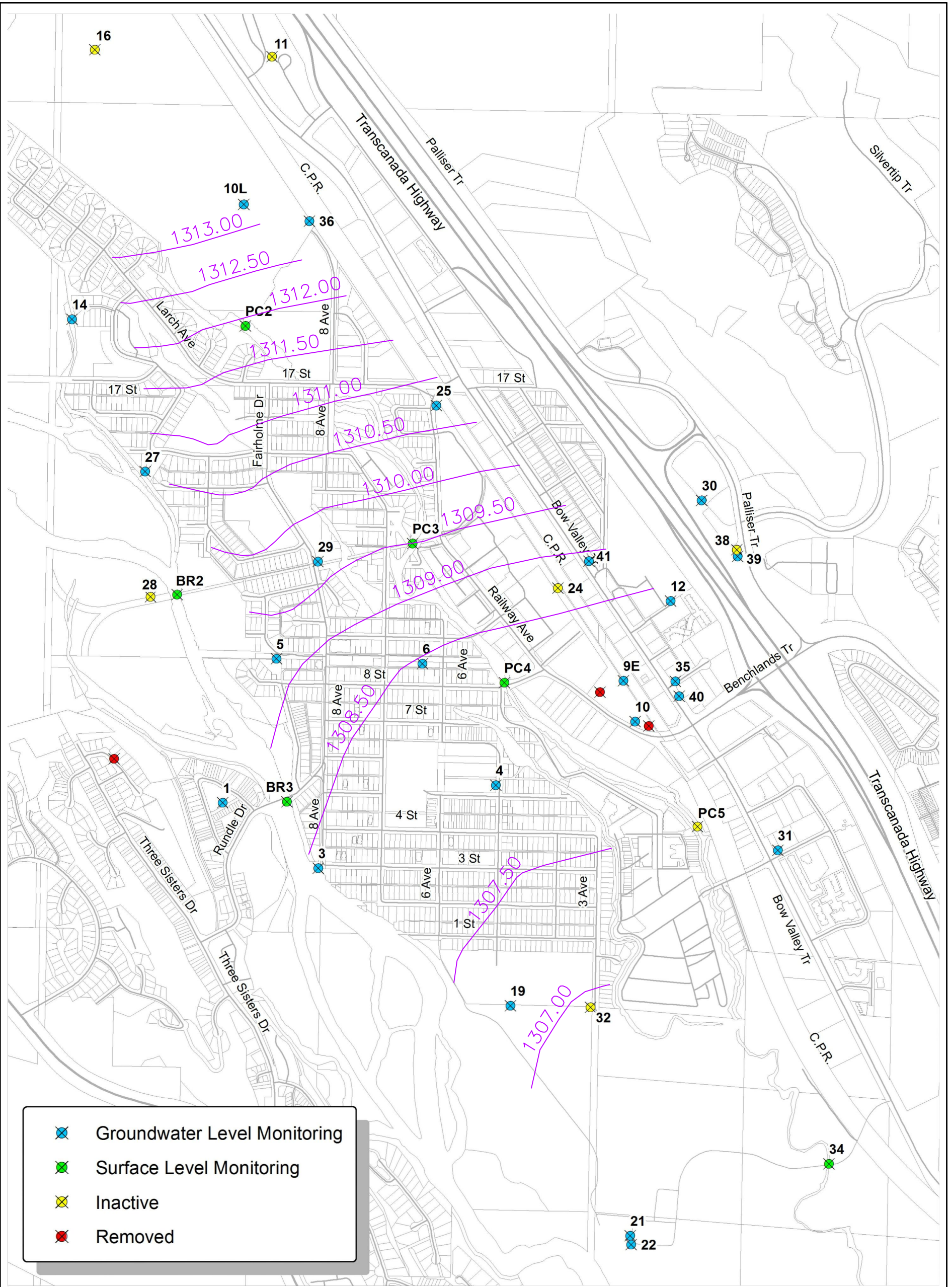
5						DRAWN:	DATE:
4						B. MORVAN	DEC 2019
3						CHECKED BY:	
2						C. BLAIS	
1	12/13/19	2019 EDCG STANDARDS	BWM	CB	CB	APPROVED:	
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	



**OVERLAND FLOW  
ELEVATIONS**

SCALE:	FIGURE NO.:
NTS	HLC 9.3





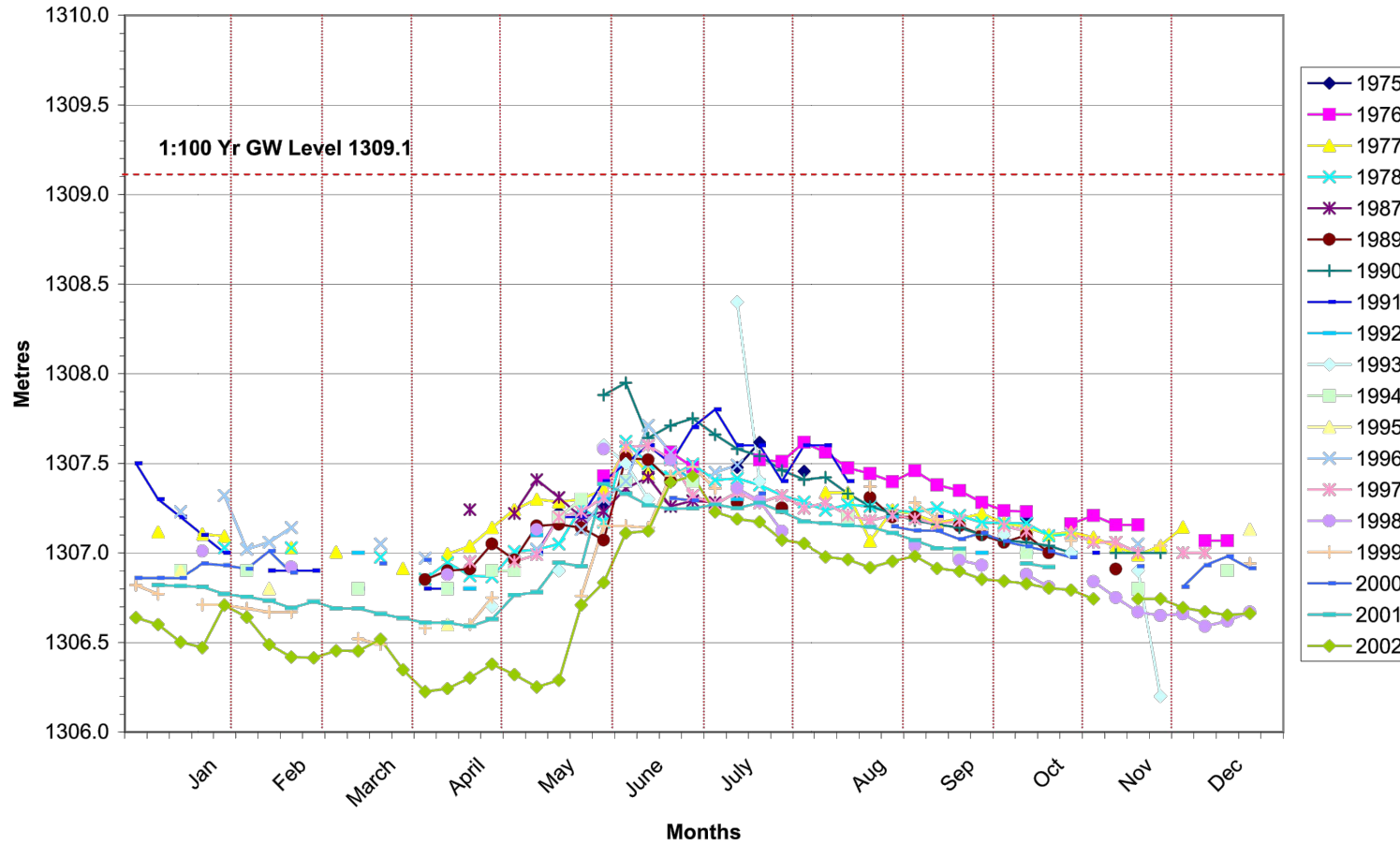
	Groundwater Level Monitoring
	Surface Level Monitoring
	Inactive
	Removed

DRAWING NAME: F:\EDCG (5320)\SECTION 9 - HAZARDS AND LOCAL CONDITIONS (HLC\_XX)\DWG\HLC\_9.6.DWG

5										DRAWN: B. MORVAN	DATE: AUG 2019	<p><b>PEIZOMETER AND STAFF GAGE LOCATION</b></p>
4										CHECKED BY: F. CAMIRE		
3										APPROVED:		
2												
1	08/14/19	2019 EDCG STANDARDS	BWM	FC	CB							
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG					MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: HLC 9.6

DRAWING\_NAME: F:\EDCG (5320)\SECTION 9 - HAZARDS AND LOCAL CONDITIONS (HLC\_XX)\DWG\HLC 9.6.DWG

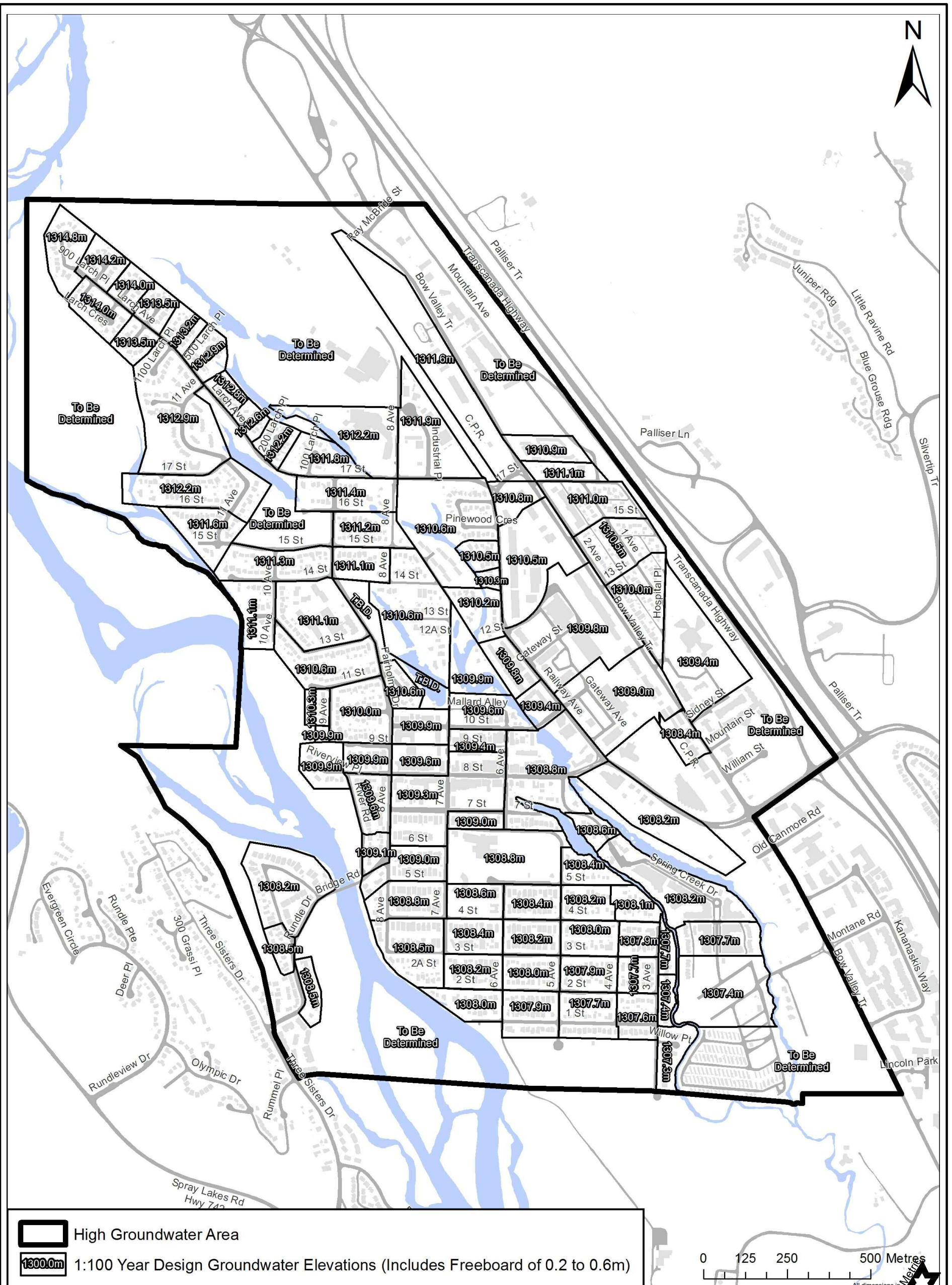
## Piezometer #12 - TeePee Town (Panorama Plaza)



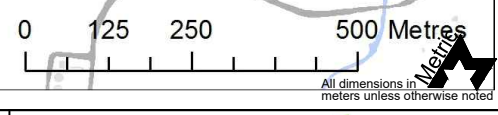
All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	<b>TYPICAL WATER LEVEL FLUCTUATION</b>	
4						B. MORVAN	AUG 2019		
3						CHECKED BY:			
2						F. CAMIRE			
1	08/14/19	2019 EDCG STANDARDS	BWM	FC	CB	APPROVED:			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS	
							FIGURE NO.:		HLC 9.7





High Groundwater Area  
1300.0m 1:100 Year Design Groundwater Elevations (Includes Freeboard of 0.2 to 0.6m)



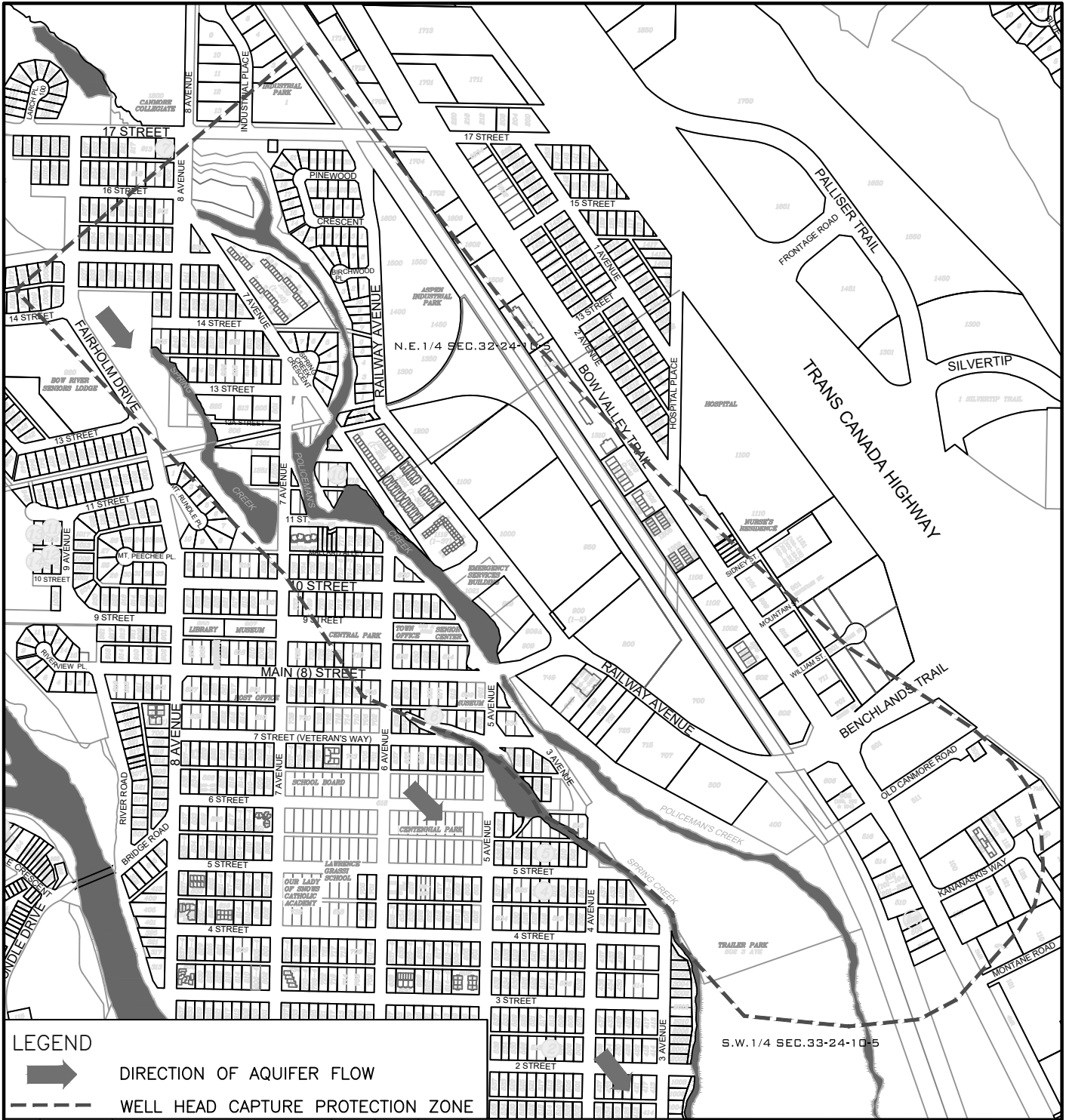
DRAWING NAME: F:\EDCG (5320)\SECTION 9 - HAZARDS AND LOCAL CONDITIONS (HLC\_XX)\DWG\HLC\_9.7.DWG

5						DRAWN:	DATE:	<b>1:100 YEAR DESIGN GROUNDWATER ELEVATIONS</b>
4						B. MORVAN	AUG 2019	
3						CHECKED BY:	F. CAMIRE	
2						APPROVED:		
1	08/14/19	2019 EDCG STANDARDS	BWM	FC	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: HLC 9.8

Town of Canmore  
**Engineering Design & Construction Guidelines**



DRAWING NAME: F:\EDCG (5320)\SECTION 9 - HAZARDS AND LOCAL CONDITIONS (HLC XX)\DWG\HLC 9.9.DWG



**LEGEND**

DIRECTION OF AQUIFER FLOW

WELL HEAD CAPTURE PROTECTION ZONE

5					
4					
3					
2	08/14/19	2019 EDCG STANDARDS	BWM	FC	CB
1	05/10/10	2010 EDCG Standards	SP	PN	PN
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG

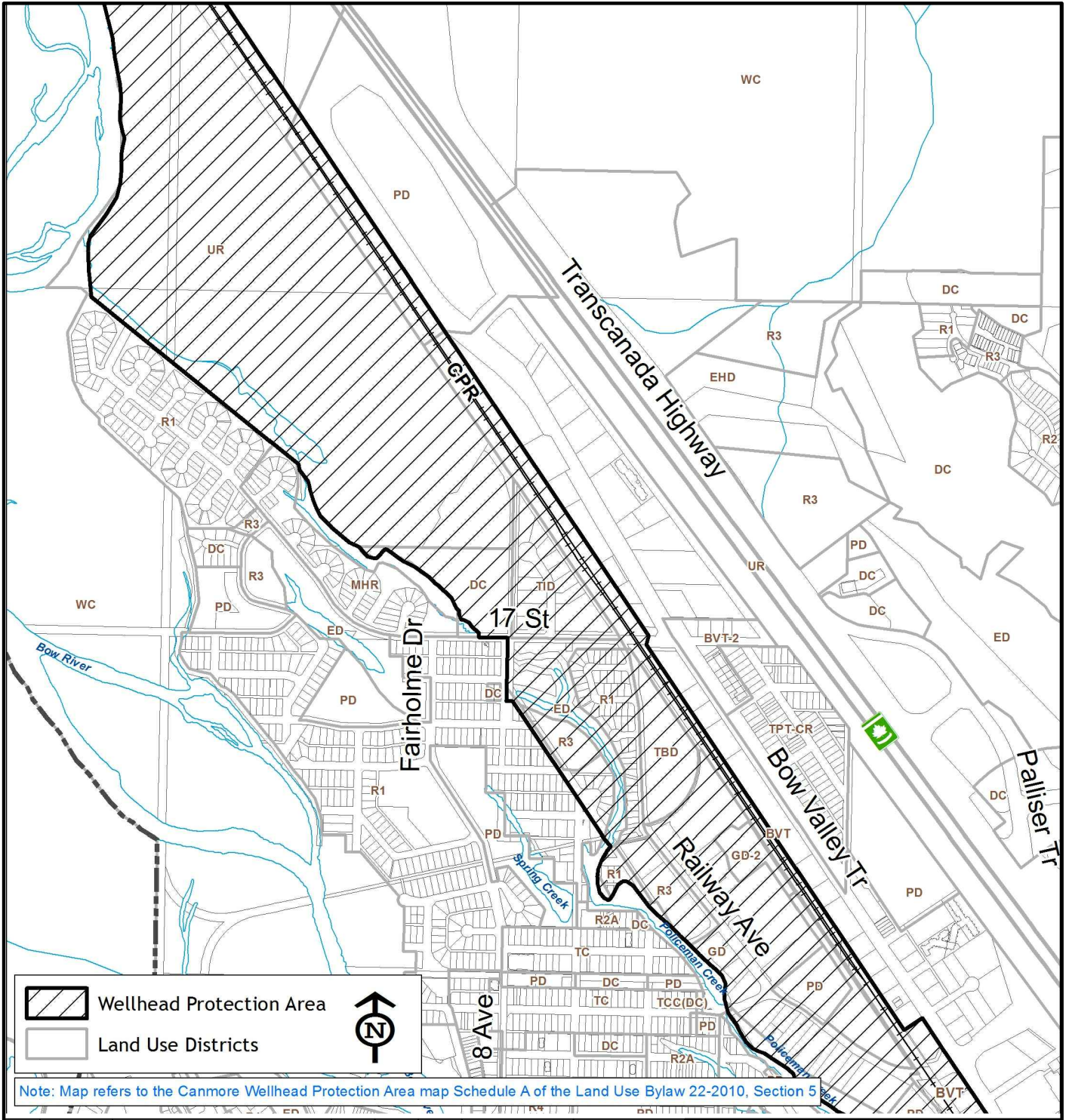
DRAWN:	DATE:
B. MORVAN	AUG 2019
CHECKED BY:	
F. CAMIRE	
APPROVED:	
MANAGER OF ENGINEERING TOWN OF CANMORE	


**Town of CANMORE**

**WELLHEAD CAPTURE PROTECTION ZONE**

SCALE:	FIGURE NO.:
NTS	HLC 9.9

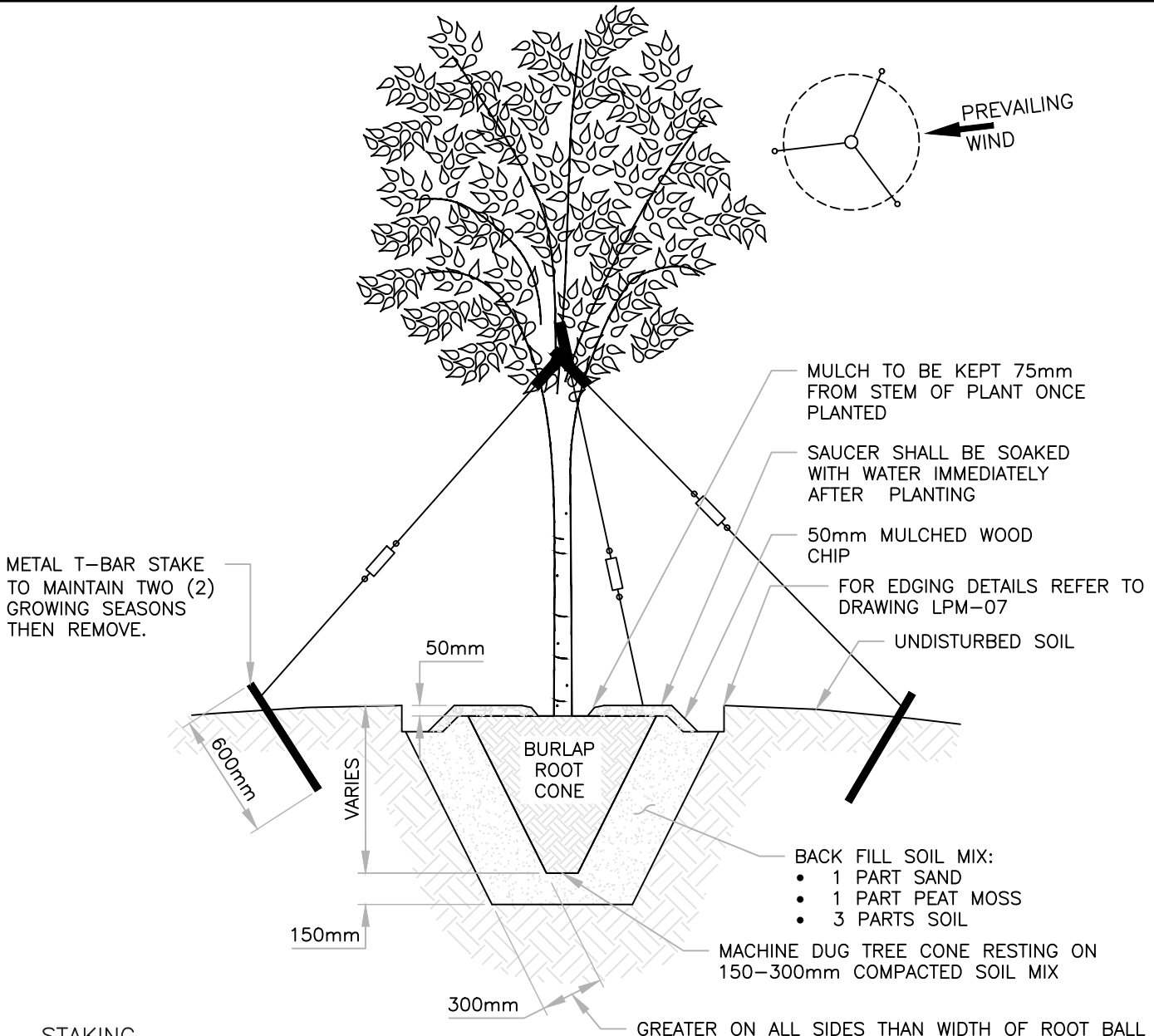
DRAWING NAME: F:\EDCG (5320)\SECTION 9 - HAZARDS AND LOCAL CONDITIONS (HLC XX)\DWG\HLC 9.9.DWG



5						DRAWN:	DATE:	 <b>Town of CANMORE</b> <b>WELLHEAD PROTECTION AREA LAND USE</b>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2	08/14/19	2019 EDCG STANDARDS	BWM	FC	F. CAMIRE			
1	05/10/10	2010 EDCG Standards	SP	PN				
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: HLC 9.10

Town of Canmore  
**Engineering Design & Construction Guidelines**

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.1.DWG



**STAKING**

- (3) EACH 12mmØ BLACK RUBBER HOSE LOOPED AROUND A STRONG BRANCH APPROX. 2/3 OF TREE HEIGHT.
- (3) EACH DOUBLE STRAND 3-4mm WIRE FOR GUYING.
- (3) EACH ORANGE FLUORESCENT GALVANIZED WARNING TAGS AT 1/3 HEIGHT OF TREE.
- (3) EACH GALVANIZED TURNBUCKLE ON TWISTED DOUBLE STRAND WIRE - TO BE PLACED AT SAME LOCATION ON ALL 3 WIRES.

**NOTES**

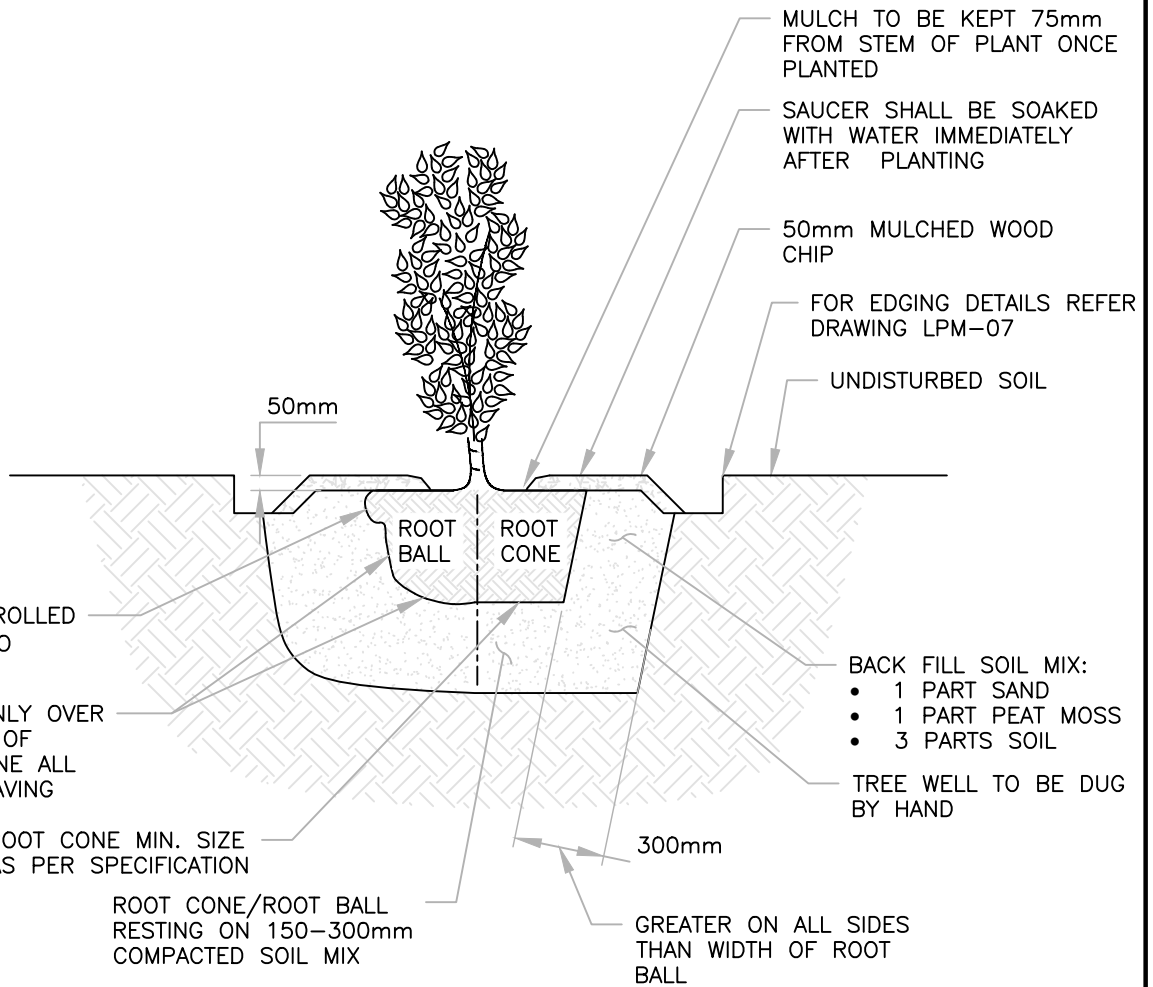
1. PRUNE ONLY TO REMOVE ALL DEAD, DAMAGED, INTERFERING AND DISEASED WOOD FORM THE PLANT.
2. CONTRACTOR TO ALLOW FOR 20% SETTLEMENT WHEN PLACING THE TREE.
3. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	 <b>DECIDUOUS PLANTING</b> <b>MACHINE DUG</b>
4	08/14/19	2019 EDCG STANDARDS	BWM	TR	CB	B. MORVAN	AUG 2019	
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	CHECKED BY: T. RIVA		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB	APPROVED:		
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ	MANAGER OF ENGINEERING TOWN OF CANMORE		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	SCALE:	FIGURE NO.:	
						1: 30	LSC 10.1	



DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 -- LANDSCAPE DESIGN\LSC 10.2.DWG

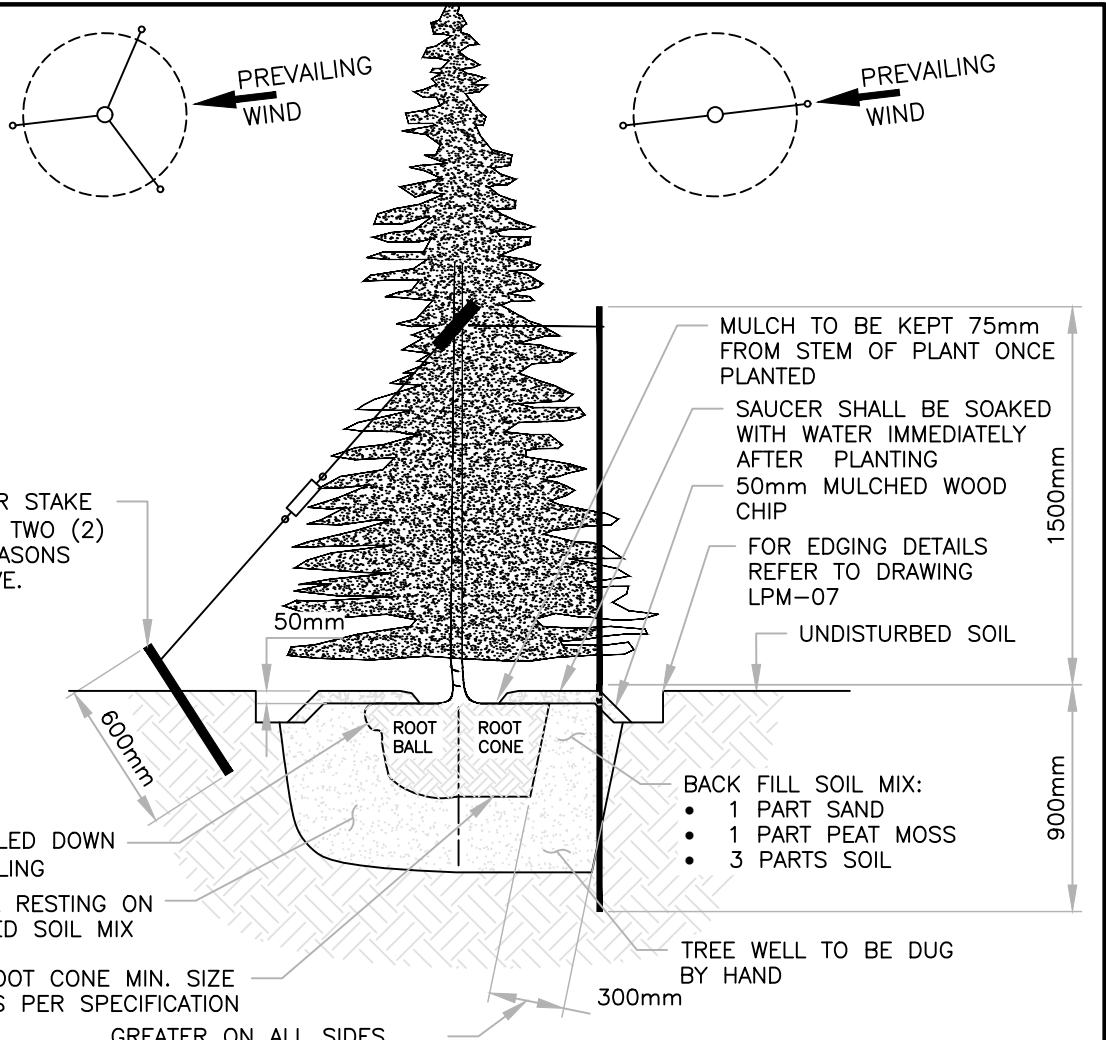


**NOTES**

1. PRUNE BRANCHES AND TWIGS BY 1/3 RETAINING NORMAL TREE SHAPE.
2. CONTRACTOR TO ALLOW FOR 20% SETTLEMENT WHEN PLACING THE TREE.
3. CONTAINER STOCK PLANTED IN SAME MANNER AS ABOVE DETAIL. CONTAINER IS TO BE CUT CAREFULLY AWAY FROM ROOT SYSTEM SO AS TO NOT DISTURB THE PLANT. SHRUB SHALL NOT BE PULLED FROM THE CONTAINER.
4. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".

All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	  <b>SHRUB PLANTING</b>
4	08/14/19	2019 EDCG STANDARDS	BWM	TR	CB	CHECKED BY: T. RIVA		
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	APPROVED:		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB	MANAGER OF ENGINEERING TOWN OF CANMORE		
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ	SCALE: 1: 25		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	FIGURE NO.: LSC 10.2		



**STAKING OPTION #1**

- METAL POST 2400mm PAINTED TWO (2) COATS OF FLAT BLACK PAINT PRIOR TO INSTALLATION AND EXTENDED INTO UNDISTURBED SOIL.
- BLACK RUBBER HOSE 12mm DOUBLE STRAND No. 10 WIRE, ATTACHE IN UPPER HALF OF TREE.
- MINIMUM OF TWO (2) STAKES PER TREE.
- ONE (1) STAKE PER STEM IN CLUMP MATERIAL.

**STAKING OPTION #2**

- (3) EACH 6.35mmØ RUBBER HOSE LOOPED AROUND A STRONG BRANCH APPROX. 2/3 OF TREE HEIGHT.
- (3) EACH DOUBLE STRAND 3-4mm WIRE FOR GUYING.
- (3) EACH ORANGE FLUORESCENT GALVANIZED WARNING TAGS AT 1/3 HEIGHT OF TREE.
- (3) EACH GALVANIZED TURNBUCKLE ON TWISTED DOUBLE STRAND WIRE.

**NOTES**

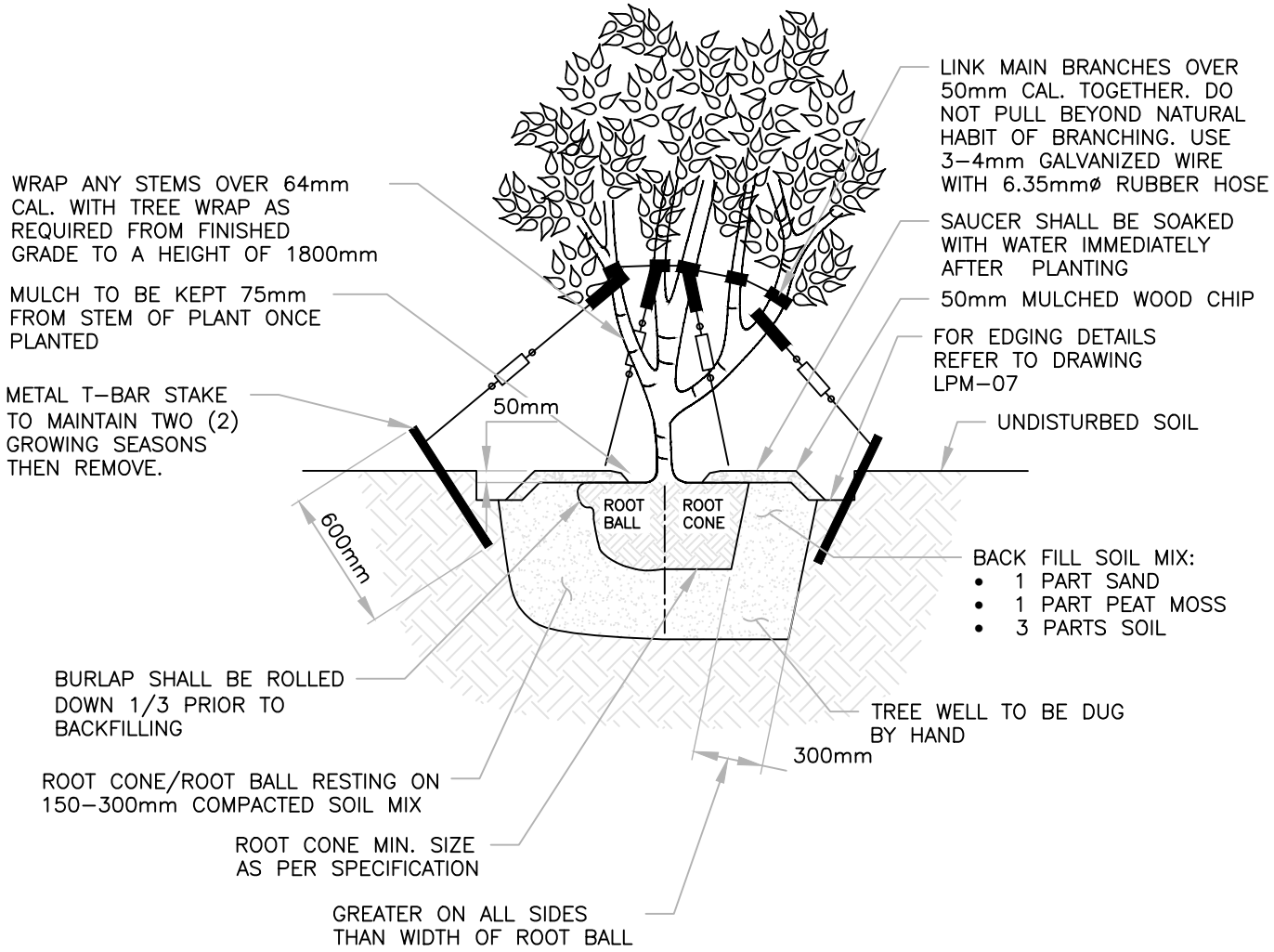
1. PRUNE ONLY TO REMOVE ALL DEAD, DAMAGED, INTERFERING AND DISEASED WOOD FORM THE PLANT.
2. CONTRACTOR TO ALLOW FOR 20% SETTLEMENT WHEN PLACING THE TREE.
3. RESTRAINING SYSTEM IS EITHER T-BAR POST OR GUY STAKE SYSTEM.
4. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".

All dimensions in meters unless otherwise noted

DRAWING\_NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.3.DWG

5						DRAWN:	DATE:	<p><b>CONIFEROUS PLANTING HAND DUG</b></p>
4	08/14/19	2019 EDCG STANDARDS	BWM	TR	CB	B. MORVAN	AUG 2019	
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	CHECKED BY: T. RIVA		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB	APPROVED:		
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ	MANAGER OF ENGINEERING TOWN OF CANMORE		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	SCALE:	FIGURE NO.:	
						1: 30	LSC 10.3	

DRAWING\_NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.4.DWG



**STAKING**

- MINIMUM FOUR (4) EACH, TWO (2) ON MAIN BRANCHES
- 6.35mmØ RUBBER HOSE LOOPED AROUND A STRONG BRANCH APPROX. 2/3 HEIGHT OF THE TREE.
- LOOP BRANCHES TOGETHER TO MAINTAIN PLANT SHAPE.
- DOUBLE STRAND 3-4mm MALLEABLE GALVANIZED WIRE FOR GUYING.
- ORANGE FLUORESCENT GALVANIZED WARNING TAGS 1/3 HEIGHT OF TREE.
- GALVANIZED TURNBUCKLE ON TWISTED DOUBLE STRAND WIRE, ON EACH GUY.

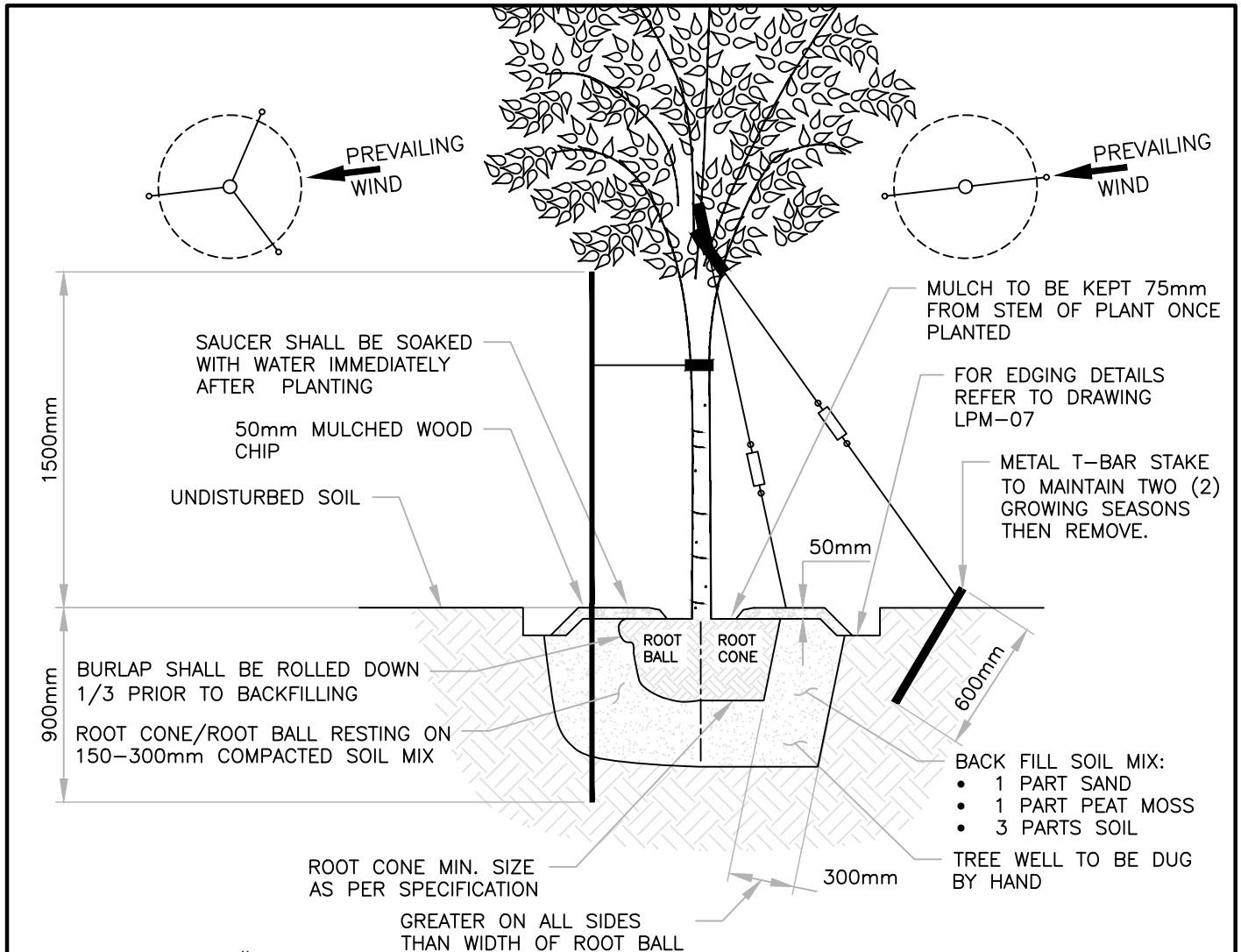
**NOTES**

1. PRUNE ONLY TO REMOVE ALL DEAD, DAMAGED, INTERFERING AND DISEASED WOOD FORM THE PLANT.
2. CONTRACTOR TO ALLOW FOR 20% SETTLEMENT WHEN PLACING THE TREE.
3. RESTRAINING SYSTEM IS EITHER T-BAR POST OR GUY STAKE SYSTEM.
4. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	<p><b>MULTI STEM TREE PLANTING</b></p>	
4	08/14/19	2019 EDCG STANDARDS	BWM	TR	CB	B. MORVAN	AUG 2019		
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	CHECKED BY: T. RIVA			
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB	APPROVED:			
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ				
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: 1: 30	
								FIGURE NO.:	LSC 10.4

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.5.DWG



**STAKING OPTION #1**

- METAL POST 2400mm PAINTED TWO (2) COATS OF FLAT BLACK PAINT PRIOR TO INSTALLATION AND EXTENDED INTO UNDISTURBED SOIL.
- BLACK RUBBER HOSE 12mm DOUBLE STRAND No. 10 WIRE, ATTACHE IN UPPER HALF OF TREE.
- MINIMUM OF TWO (2) STAKES PER TREE.
- ONE (1) STAKE PER STEM IN CLUMP MATERIAL.

**STAKING OPTION #2**

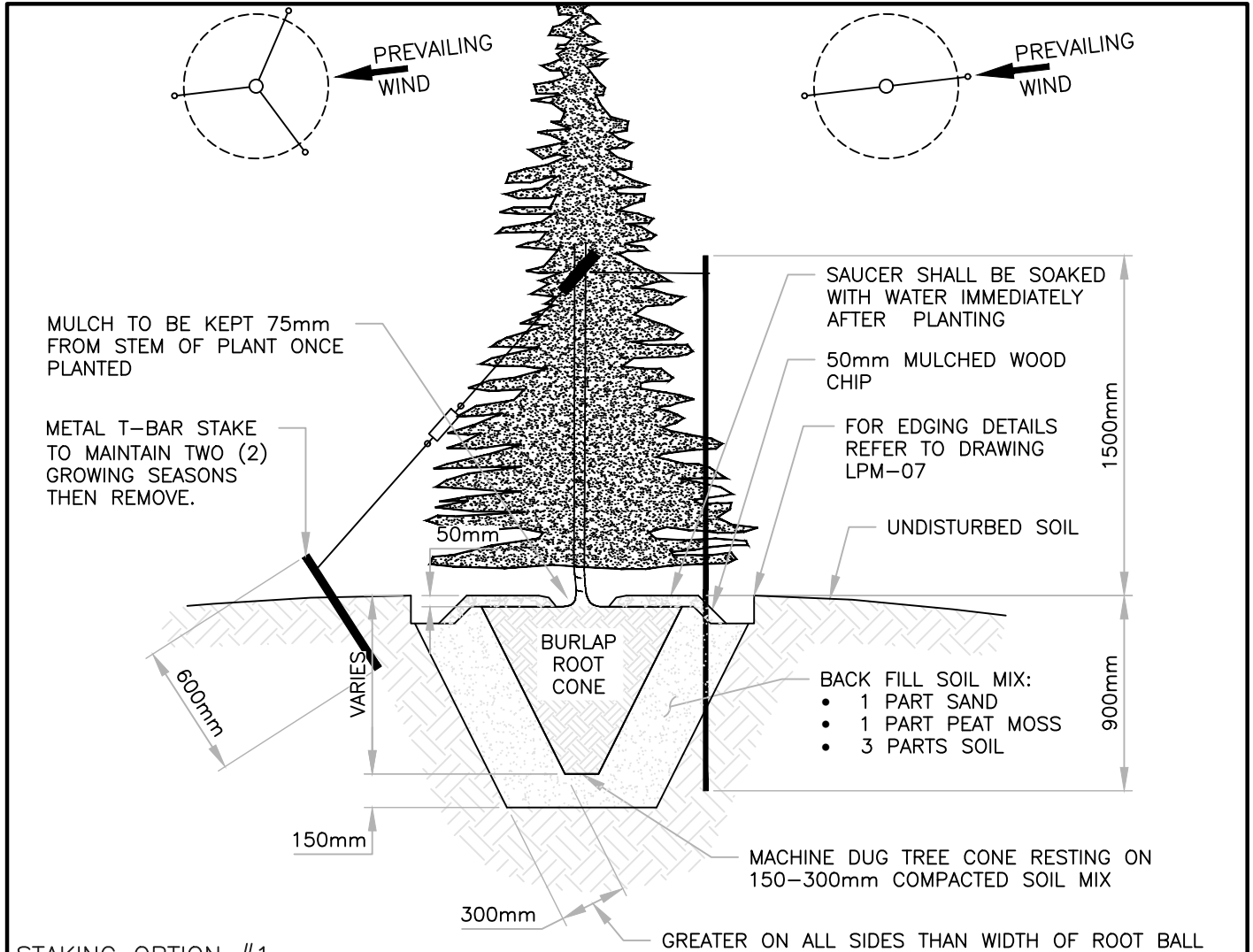
- (3) EACH 6.35mmØ RUBBER HOSE LOOPED AROUND A STRONG BRANCH APPROX. 2/3 OF TREE HEIGHT.
- (3) EACH DOUBLE STRAND 3-4mm WIRE FOR GUYING.
- (3) EACH ORANGE FLUORESCENT GALVANIZED WARNING TAGS AT 1/3 HEIGHT OF TREE.
- (3) EACH GALVANIZED TURNBUCKLE ON TWISTED DOUBLE STRAND WIRE.

**NOTES**

1. PRUNE BRANCHES BY 1/3 RETAINING NORMAL PLANT SHAPE AND REMOVE ALL DEAD, DAMAGED, INTERFERING AND DISEASED WOOD FORM THE PLANT.
2. CONTRACTOR TO ALLOW FOR 20% SETTLEMENT WHEN PLACING THE TREE.
3. RESTRAINING SYSTEM IS T-BAR POST WHEN PLANTING IS IN NEW SOD, GUY STAKE SYSTEM IN PRE-EXISTING ESTABLISHED CONDITIONS.
4. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".

All dimensions in meters unless otherwise noted.

5						DRAWN:	DATE:	<p><b>TREE PLANTING IN SOD CONIFEROUS/DECIDUOUS</b></p>	
4	08/14/19	2019 EDCG STANDARDS	BWM	TR	CB	B. MORVAN	AUG 2019		
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	CHECKED BY: T. RIVA			
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB	APPROVED:			
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ				
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: 1:30	
								FIGURE NO.:	LSC 10.5



### STAKING OPTION #1

- METAL POST 2400mm PAINTED TWO (2) COATS OF FLAT BLACK PAINT PRIOR TO INSTALLATION AND EXTENDED INTO UNDISTURBED SOIL.
- BLACK RUBBER HOSE 12mm DOUBLE STRAND No. 10 WIRE, ATTACHE IN UPPER HALF OF TREE.
- MINIMUM OF TWO (2) STAKES PER TREE.
- ONE (1) STAKE PER STEM IN CLUMP MATERIAL.

### STAKING OPTION #2

- (3) EACH 6.35mm $\phi$  RUBBER HOSE LOOPED AROUND A STRONG BRANCH APPROX. 2/3 OF TREE HEIGHT.
- (3) EACH DOUBLE STRAND 3-4mm WIRE FOR GUYING.
- (3) EACH ORANGE FLUORESCENT GALVANIZED WARNING TAGS AT 1/3 HEIGHT OF TREE.
- (3) EACH GALVANIZED TURNBUCKLE ON TWISTED DOUBLE STRAND WIRE.

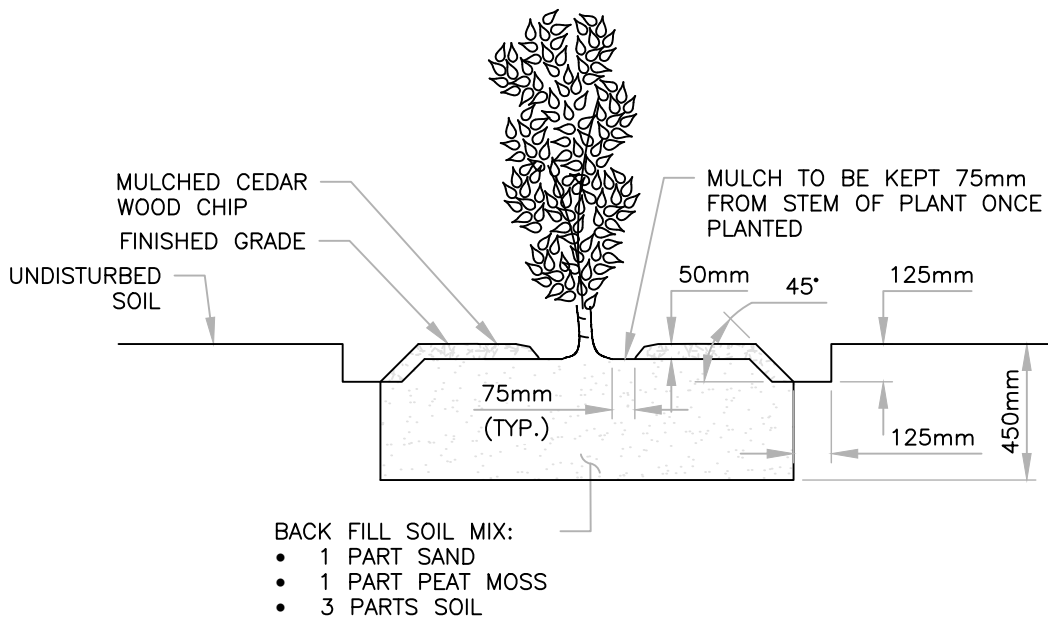
### NOTES

1. PRUNE ONLY TO REMOVE ALL DEAD, DAMAGED, INTERFERING AND DISEASED WOOD FORM THE PLANT.
2. CONTRACTOR TO ALLOW FOR 20% SETTLEMENT WHEN PLACING THE TREE.
3. RESTRAINING SYSTEM IS T-BAR POST WHEN PLANTING IS IN NEW SOD, GUY STAKE SYSTEM IN PRE-EXISTING ESTABLISHED CONDITIONS.
4. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	 <b>CONIFEROUS PLANTING</b> <b>MACHINE DUG</b>
4	08/14/19	2019 EDCG STANDARDS	BWM	TR	CB	B. MORVAN	AUG 2019	
3	03/15/14	REVISED TITLE BLOCK	PL	TR	BB	CHECKED BY: T. RIVA		
2	03/17/00	2000 ENGINEERING DESIGN STANDARDS	MAR	DAB	DAB	APPROVED:		
1	05/05/98	1998 ENGINEERING DESIGN STANDARDS	KRB	KRB	DRJ			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: 1: 30	FIGURE NO.: LSC 10.6

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 -- LANDSCAPE DESIGN\LSC 10.7.DWG




**NOTES**

1. THIS DESIGN CAN BE USED WITH OR WITHOUT LANDSCAPING FABRIC.
2. IF LANDSCAPING FABRIC IS USED, IT NEEDS TO BE ATTACHED TO THE GROUND NEATLY AT THE BOTTOM OF THE GUTTER SLOPED (BED) SIDE.
3. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".

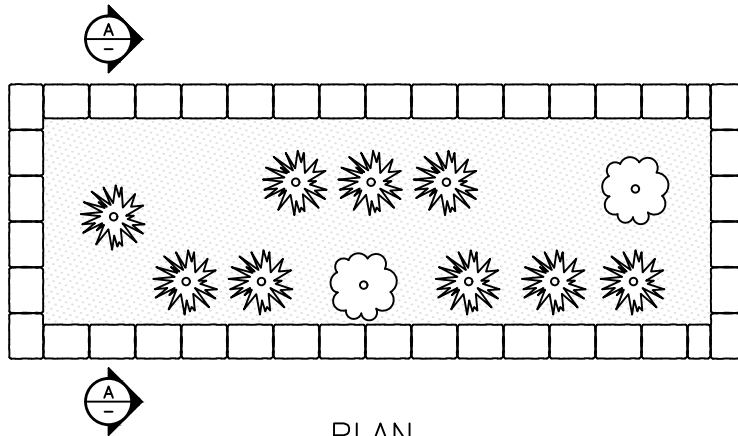
All dimensions in meters unless otherwise noted



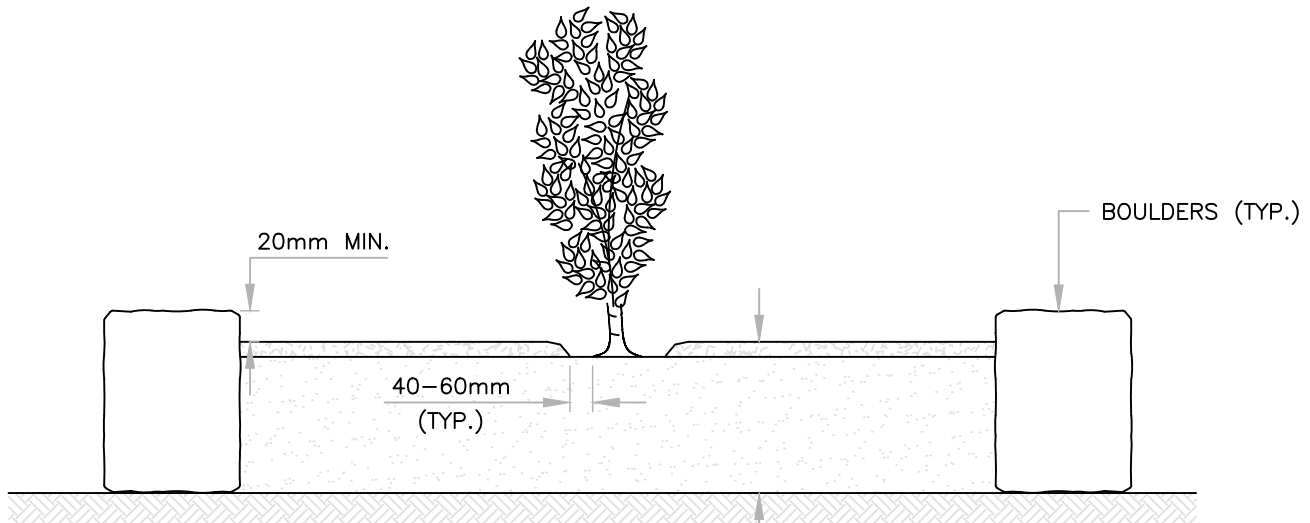
5						DRAWN:	DATE:	 <b>SHRUB PLANTING GROUND BED</b>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2					T. RIVA			
1	08/14/19	2019 EDCG STANDARDS	BWM	TR	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: 1: 25	FIGURE NO.: LSC 10.7



DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.8.DWG



PLAN  
SCALE: 1:100



SECTION A-A  
SCALE: 1:25

- 50mm MULCHED CEDAR WOOD CHIPS
- 450mm SOIL MIX

**NOTES**

1. ROCK TO BE CUT RUNDLE STONE IN BLOCKS OF SLIGHTLY VARIABLE SIZES BUT CONSISTENT.
2. ROCK SIZE WILL VARY PENDING ROCK BED LOCATION, INTENT, LOOK AND FEEL OF SPACE.
3. ROCK TO BE HELD TOGETHER WITH MORTAR.
4. LANDSCAPE FABRIC TO BE ATTACHED TIGHT AT ROCK EDGE EVERY 300mm WITH SPIKES.
5. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".
6. MULCH TO BE KEPT 40-60mm FROM STEM OF PLANTS.

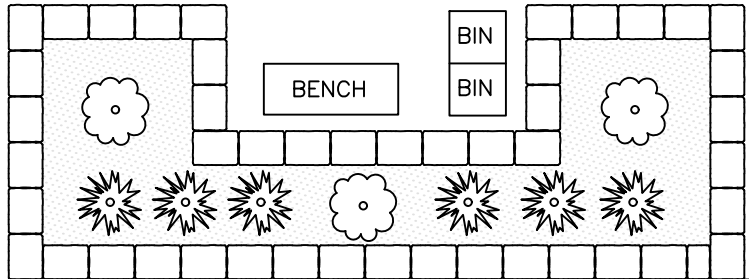
All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>MULCH BED BORDERED BY ROCK SCAPING</b>
4					CHECKED BY: L. GUEST			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: AS NOTED	FIGURE NO.: LSC 10.8

EXIST. ROADWAY

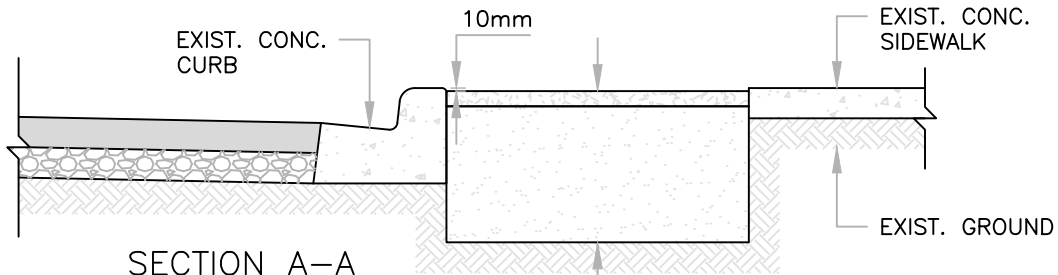
EXIST. CURB AND GUTTER

EXIST. SIDEWALK



EXIST. BUILDING

PLAN  
SCALE: 1:100



SECTION A-A  
SCALE: 1:25

- 50mm MULCHED CEDAR WOOD CHIPS
- 450mm SOIL MIX

**NOTES**

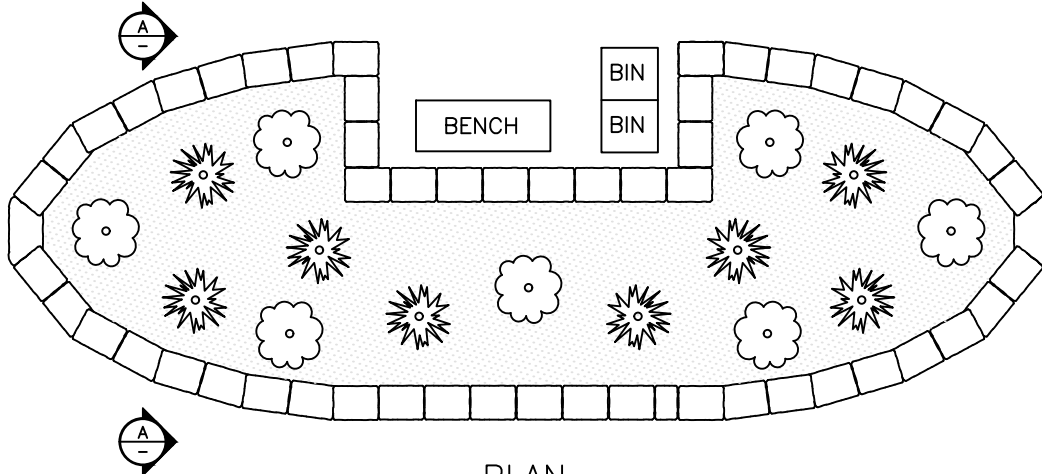
1. NO LANDSCAPING FABRIC.
2. IF LANDSCAPING FABRIC IS USED, IT MUST BE ATTACHED DOWN EVERY 300mm AND AT EACH CORNER.
3. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".
4. MULCH TO BE KEPT 40-60mm FROM STEM OF PLANTS.

All dimensions in meters unless otherwise noted

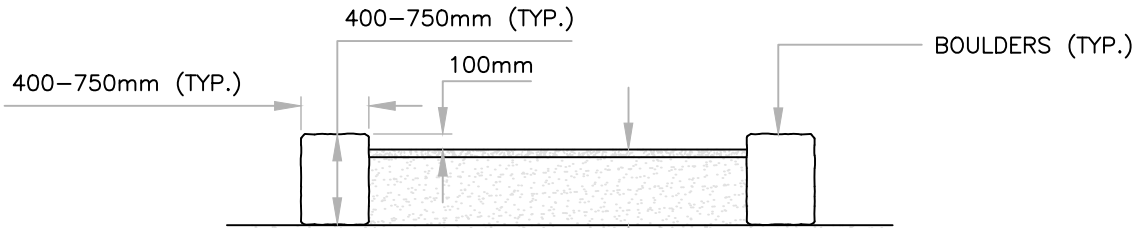
DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 -- LANDSCAPE DESIGN\LSC 10.9.DWG

5						DRAWN:	DATE:	<p><b>MULCH BED WITHIN A CONCRETE SIDEWALK BED NEXT TO ROADWAY</b></p>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2					L. GUEST			
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: AS NOTED	FIGURE NO.: LSC 10.9





PLAN  
SCALE: 1:100



SECTION A-A  
SCALE: 1:50


- 50mm MULCHED CEDAR WOOD CHIPS
- 300-660mm SOIL MIX (DEPTH VARIES PENDING ROCK HEIGHT)

NOTES

1. ROCK TO BE CUT RUNDLE STONE IN BLOCKS OF SLIGHTLY VARIABLE SIZES BUT CONSISTENT.
2. ROCK SIZE WILL VARY PENDING ROCK BED LOCATION, INTENT, LOOK AND FEEL OF SPACE.
3. ROCK TO BE HELD TOGETHER WITH MORTAR.
4. LANDSCAPE FABRIC TO BE ATTACHED TIGHT AT ROCK EDGE EVERY 300mm WITH SPIKES.
5. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".
6. MULCH TO BE KEPT 40-60mm FROM STEM OF PLANTS.

All dimensions in meters unless otherwise noted



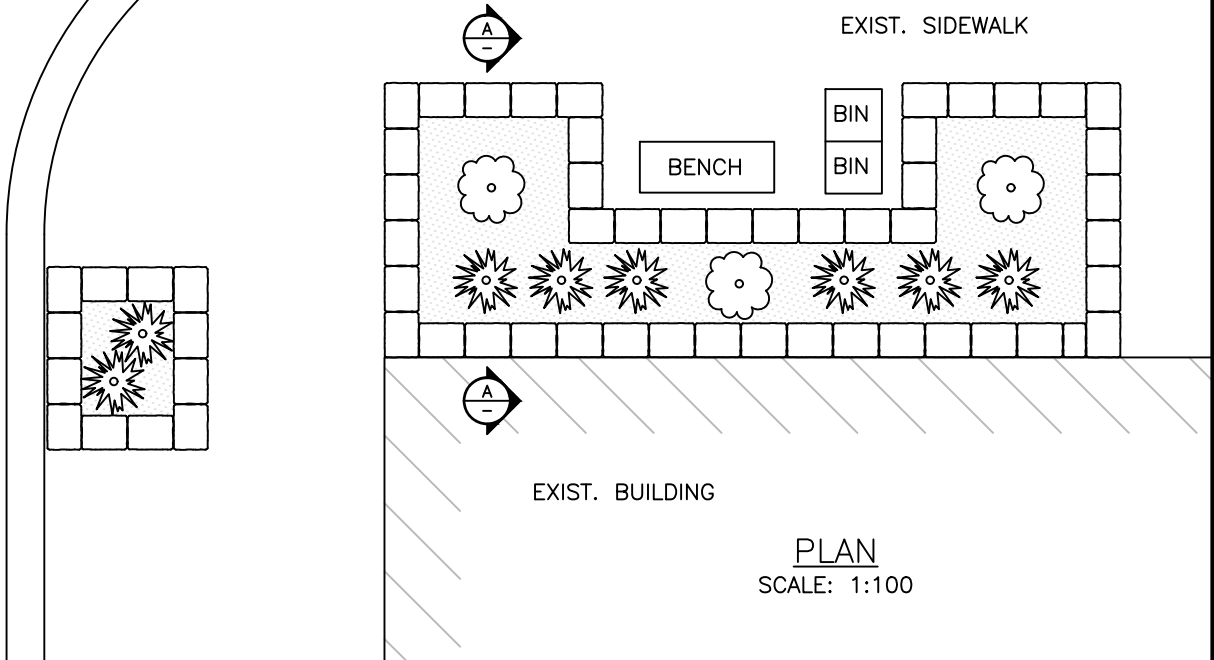
5						DRAWN:	DATE:	 <b>PLAZA RAISED ROCK FEATURE BED</b>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:	L. GUEST		
2					APPROVED:			
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: AS NOTED	FIGURE NO.: LSC 10.10

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.10.DWG

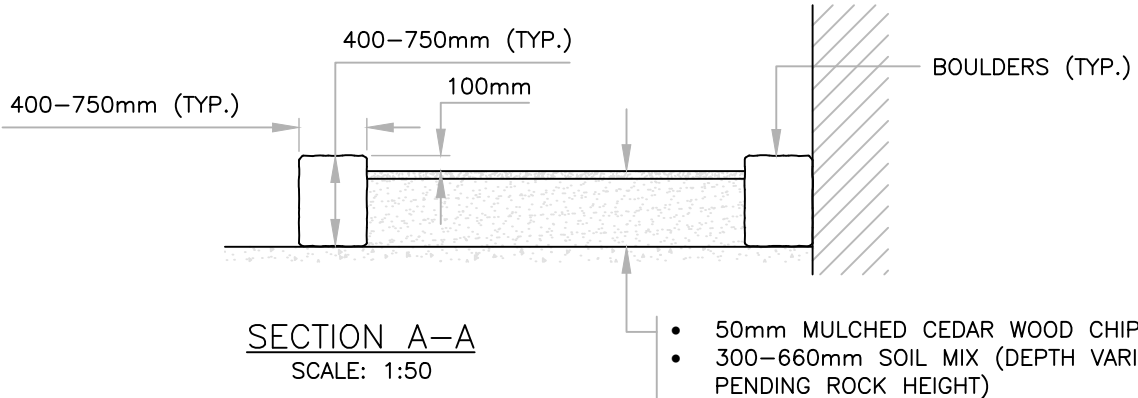
EXIST. ROADWAY

EXIST. CURB AND GUTTER

EXIST. SIDEWALK



PLAN  
SCALE: 1:100



SECTION A-A  
SCALE: 1:50

- 50mm MULCHED CEDAR WOOD CHIPS
- 300-660mm SOIL MIX (DEPTH VARIES PENDING ROCK HEIGHT)

NOTES

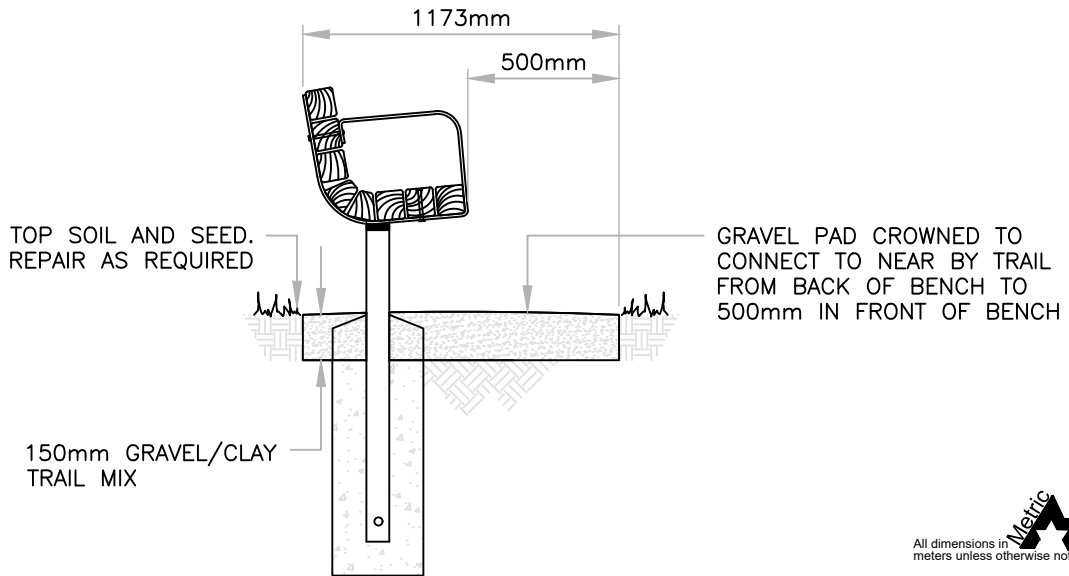
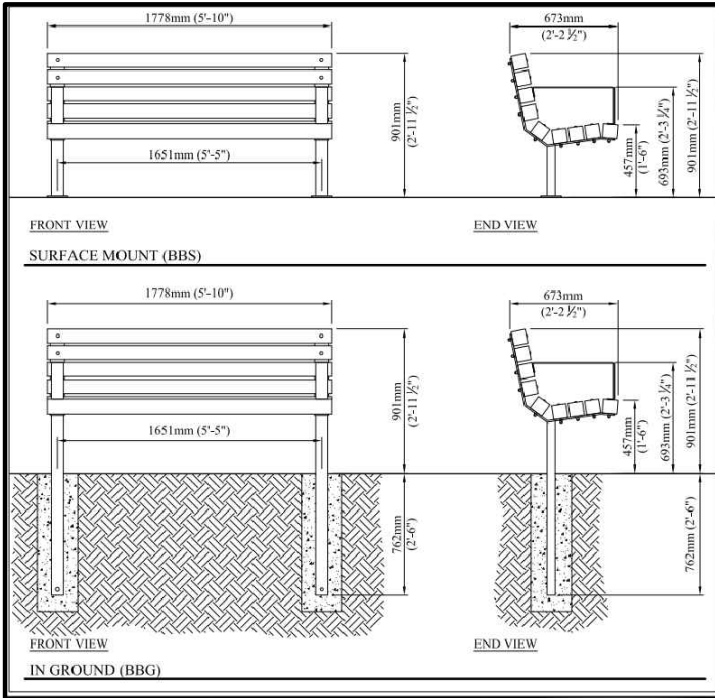
1. ROCK TO BE CUT RUNDLE STONE IN BLOCKS OF SLIGHTLY VARIABLE SIZES BUT CONSISTENT.
2. ROCK SIZE WILL VARY PENDING ROCK BED LOCATION, INTENT, LOOK AND FEEL OF SPACE.
3. ROCK TO BE HELD TOGETHER WITH MORTAR.
4. LANDSCAPE FABRIC TO BE ATTACHED TIGHT AT ROCK EDGE EVERY 300mm WITH SPIKES.
5. MULCH TO BE "FOOTHILLS PREMIUM CEDAR MULCH".
6. MULCH TO BE KEPT 40-60mm FROM STEM OF PLANTS.

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	<p><b>SIDEWALK RAISED ROCK FEATURE BED</b></p>
4					B. MORVAN	AUG 2018		
3					CHECKED BY:	L. GUEST		
2					APPROVED:			
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: AS NOTED	FIGURE NO.: LSC 10.11

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.11.DWG

DRAWING\_NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.12.DWG

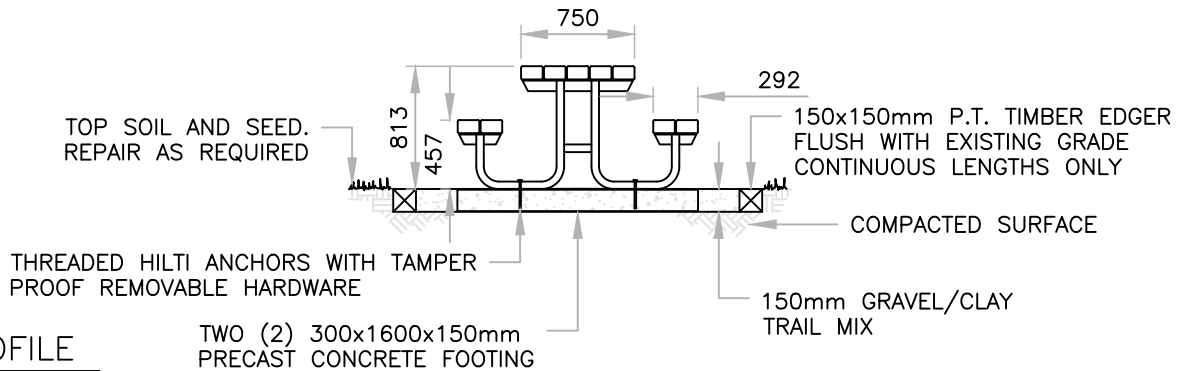
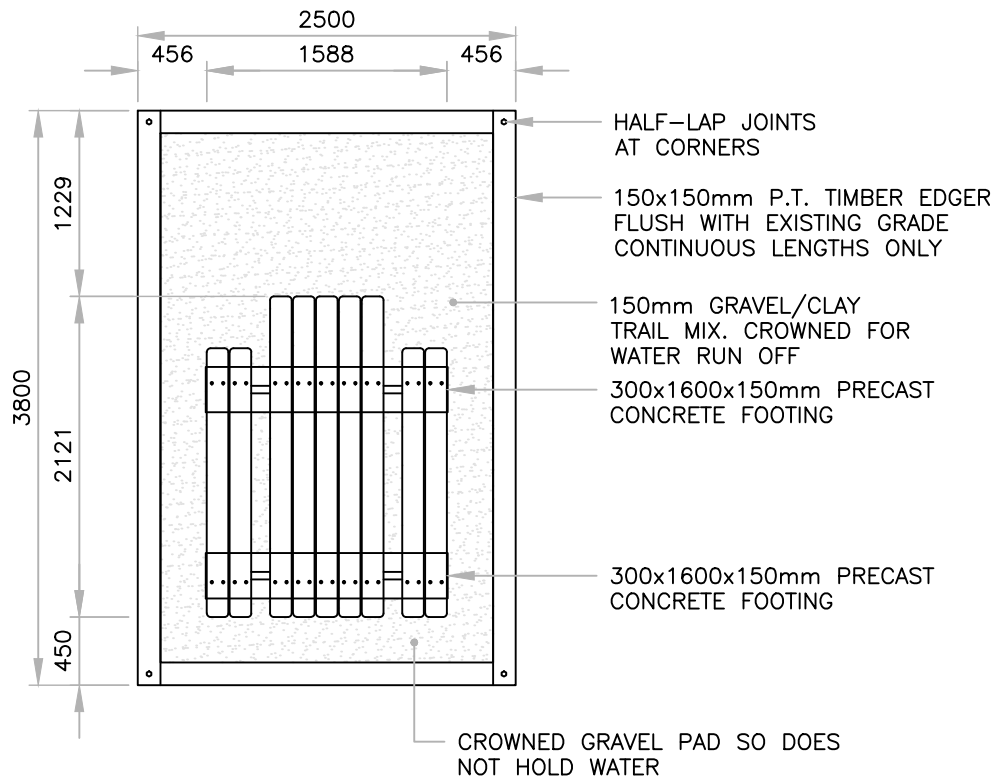


All dimensions in meters unless otherwise noted

PARK BENCH	WOOD	STEEL FINISH	FASTNERS	TYPE	MOUNT
SERIES "B" PARK BENCH BY CUSTOM PARK & LEISURE OR APPROVED EQUIVALENT	88.9 x 88.9 x 1178.0mm (3-1/2" x 3-1/2" x 70") #1 GRADE CLEAR CEDAR	3 STEP POWDER COAT PROCESS 1-SURFACE PREP(SANDBLAST) 2- PRIME COAT (ZINCPRIMER) 3- TOP POWDER COAT COLOUR: CHESTNUT BROWN	9.5mm PLATED CARRIAGE BOLTS. COLOUR MATCHED TO STEEL FRAME	1778mm IN LENGTH WITH BACK AND ARM RESTS	BOLT DOWN MOUNT IN-GROUND MOUNT FREE STANDING MOUNT

5						DRAWN:	DATE:	 <b>PARK BENCH TYPE AND INSTALLATION DETAILS</b>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:	L. GUEST		
2					APPROVED:			
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.12

DRAWING NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.13.DWG

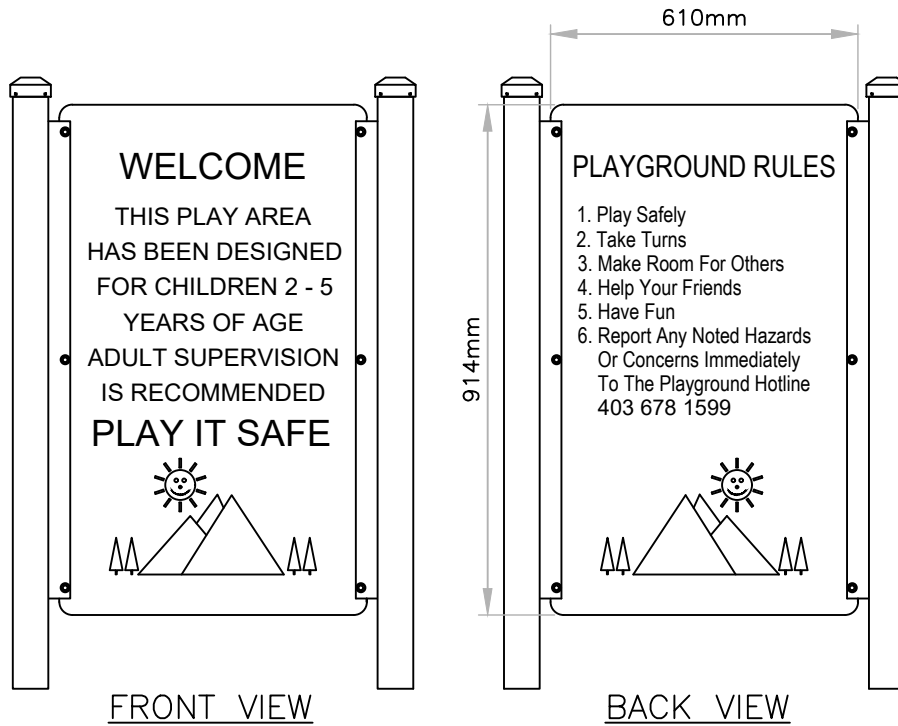


All dimensions in meters unless otherwise noted

PICNIC TABLE	WOOD	STEEL TYPE	FASTNERS	STEEL FINISH	WOOD FINISH
SERIES "B" SURFACE MOUNT (PBS) BY CUSTOM PARK & LEISURE OR APPROVED EQUIVALENT	88.9 x 139.7 x 1778.0mm (3 1/2" x 5 1/2" x 70") # 1 GRADE SELECT CEDAR	101.6 x 76.2mm (4" x 3") ANGLE IRON WOOD SUPPORTS 50.8 x 50.8mm (2" x 2") SQUARE TUBE FRAME	9.5mm (3/8) PLATED CARRIAGE BOLTS COLOUR MATCHED TO STEEL FRAME	3 STEP POWDER COAT PROCESS 1-SURFACE PREP (SANDBLAST) 2- PRIME COAT (ZINC PRIMER) 3- TOP POWDER COAT COLOUR: CHESTNUT BROWN	OPTIONAL SIKKENS STAIN


5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>PICNIC TABLE TYPE AND INSTALLATION DETAILS</b>
4						CHECKED BY: L. GUEST		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS
								FIGURE NO.: LSC 10.13

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 -- LANDSCAPE DESIGN\LSC 10.14.DWG

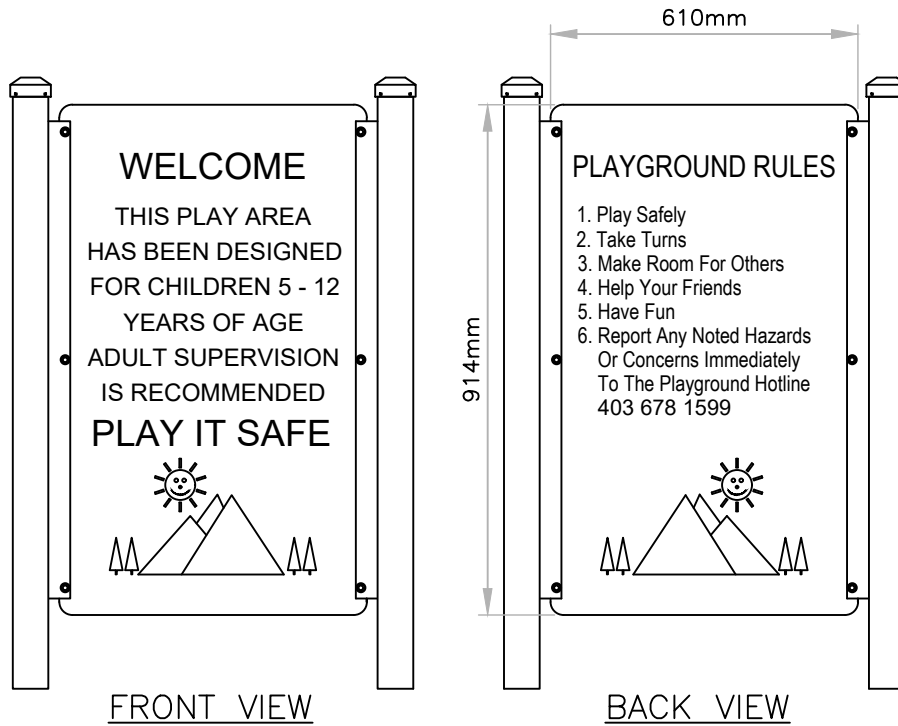


All dimensions in meters unless otherwise noted



5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>PLAYGROUND SIGN</b> <b>AGE 2 - 5 YEARS</b>
4						CHECKED BY: L. GUEST		
3						APPROVED:		
2	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
1	03/15/14	REVISED TITLE BLOCK	PL	TR	BB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS
								FIGURE NO.: LSC 10.14

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 -- LANDSCAPE DESIGN\LSC 10.15.DWG



All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	<b>PLAYGROUND SIGN</b> <b>AGE 5 - 12 YEARS</b>
4					CHECKED BY: L. GUEST			
3					APPROVED:			
2	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB	MANAGER OF ENGINEERING TOWN OF CANMORE		
1	03/15/14	REVISED TITLE BLOCK	PL	TR	BB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	SCALE: NTS	FIGURE NO.: LSC 10.15	




TRAIL SIGNAGE TABLE

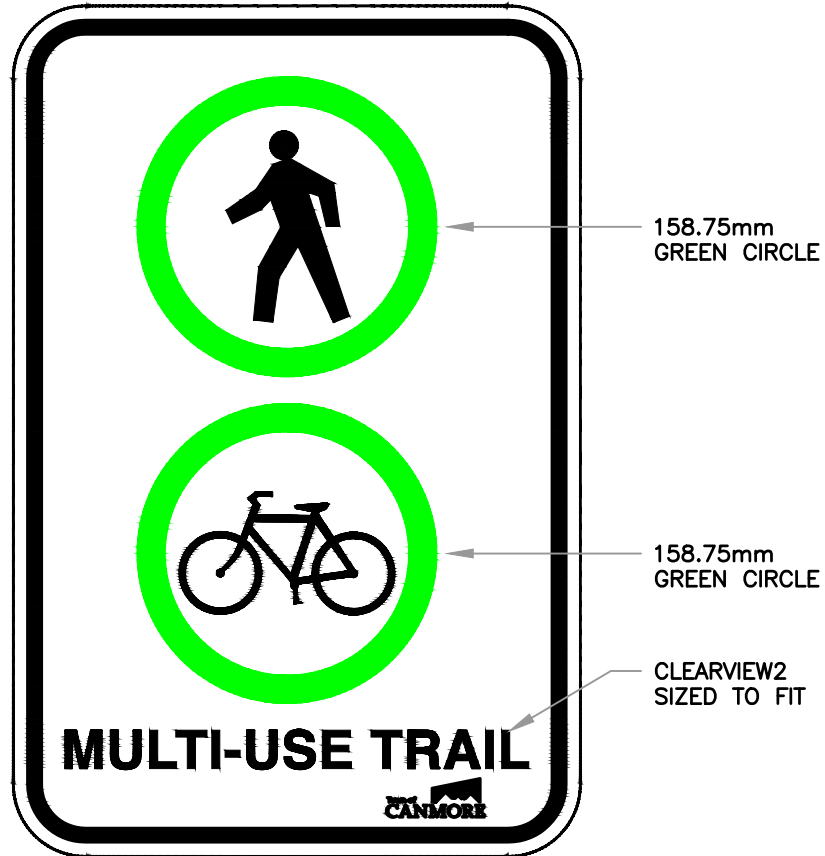
ALL SIGNAGE INDICATED ON PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

TRAIL SIGNAGE TYPE (TOWN OF CANMORE DESIGNATION)	STOCK NUMBER (ATSL)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
"A"	CUSTOM	TRAIL c/w T.O.C. SYMBOL	AL1	RECTANGULAR	30 x 45 cm	W/BR	VIN	TO IDENTIFY PUBLIC TRAILS

\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>TYPE "A"</b> <b>TRAIL SIGNAGE</b>
4						CHECKED BY: L. GUEST		
3						APPROVED:		
2	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
1	03/15/14	REVISED TITLE BLOCK	PL	TR	BB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.16

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.16.DWG




### TRAIL SIGNAGE TABLE

ALL SIGNAGE INDICATED ON PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

TRAIL SIGNAGE TYPE (TOWN OF CANMORE DESIGNATION)	STOCK NUMBER (ATSL)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
"B"	CUSTOM	WALKWAY c/w SYMBOL	AL1	RECTANGULAR	30 x 45 cm	W/BR/GR	VIN	DESIGNATES A REGIONAL/MULTI-USE TRAIL GENERALLY WITH A 2.5m WIDTH

\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>TYPE "B"</b> <b>TRAIL SIGNAGE</b> (TRAIL - MULTI USE)
4					CHECKED BY: L.GUEST			
3					APPROVED:			
2	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
1	03/15/14	REVISED TITLE BLOCK	PL	TR	BB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.17

DRAWING\_NAME: F:\2018 EDCG (5320)\DWGS\SECTION 10 - LANDSCAPE DESIGN\LSC 10.17.DWG





44.45mm CLEARVIEW2


44.45mm CLEARVIEW2

### REGULATORY SIGNAGE TABLE

ALL SIGNAGE INDICATED ON THE PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

SIGNAGE TYPE	STOCK # (ATSL *)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
LRS-01 T.O.C. DESIGNATION	CUSTOM	PARK CLOSURE SIGN WITH DESIGNATED HOURS c/w T.O.C. LOGO	AL-.081	RECTANGLE c/w ROUNDED CORNERS	76.2cm X 60.96cm	WHITE BACKGROUND, BLACK LETTERS AND BLACK BORDER LINE	REFLECTIVE DG c/w 3M ANTI-GRAFFITI COAT	DESIGNATES THE TIME THE PARK IS CLOSED TO THE PUBLIC

\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>THIS PARK IS CLOSED TO THE PUBLIC</b>
4					CHECKED BY: L. GUEST			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.18

Town of Canmore

**Engineering Design & Construction Guidelines**



222.25mm  
RED CIRCLE


CLEARVIEW2  
SIZED TO FIT

### REGULATORY SIGNAGE TABLE

ALL SIGNAGE INDICATED ON THE PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

SIGNAGE TYPE	STOCK # (ATSL *)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
LRS-03	CUSTOM	NO PETS c/w T.O.C. LOGO	AL-.081	RECTANGLE c/w ROUNDED CORNERS	30.0cm X 45.0cm	WHITE BACKGROUND, BLACK TRIM AND LETTERS/SYMBOLS RED CIRCLED	REFLECTIVE DG c/w 3M ANTI-GRAFFITI COAT	DESIGNATES A NO PETS ALLOWED LOCATION/AREA

\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	  <b>NO PETS</b>
4					CHECKED BY: L. GUEST			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.19

Town of Canmore

**Engineering Design & Construction Guidelines**



222.25mm  
RED CIRCLE


CLEARVIEW2  
SIZED TO FIT

### REGULATORY SIGNAGE TABLE

ALL SIGNAGE INDICATED ON THE PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

SIGNAGE TYPE	STOCK # (ATSL *)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
LRS-04	CUSTOM	NO PETS WITHIN 20m OF PLAY APPARATUS c/w T.O.C. LOGO	AL-.081	RECTANGLE c/w ROUNDED CORNERS	30.0cm X 45.0cm	WHITE BACKGROUND, BLACK TRIM AND LETTERS/SYMBOLS RED CIRCLED	REFLECTIVE DG c/w 3M ANTI-GRAFFITI COAT	NO PETS WITHIN 20m OF PLAY APPARATUS. DESIGNATES NO PETS ALLOWED IN AREA

\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>NO PETS WITHIN 20 METRES OF PLAY APPARATUS</b>
4						CHECKED BY: L. GUEST		
3						APPROVED:		
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.20



222.25mm  
GREEN CIRCLE


CLEARVIEW2  
SIZED TO FIT

### REGULATORY SIGNAGE TABLE

ALL SIGNAGE INDICATED ON THE PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

SIGNAGE TYPE	STOCK # (ATSL *)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
LRS-04 T.O.C. DESIGNATION	CUSTOM	PETS ON LEASH SYMBOL c/w T.O.C. LOGO & BYLAW TEXT	AL-.081	RECTANGLE c/w ROUNDED CORNERS	30.0cm X 45.0cm	WHITE BACKGROUND, BLACK TRIM AND LETTERS/SYMBOL GREEN CIRCLE	REFLECTIVE DG c/w 3M ANTI-GRAFFITI COAT	DESIGNATES A PETS ON LEASH ALLOWED LOCATION/AREA

\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	  <b>PETS ON LEASH</b>
4					CHECKED BY: L. GUEST			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.21



222.25mm  
RED CIRCLE


CLEARVIEW2  
SIZED TO FIT

### REGULATORY SIGNAGE TABLE

ALL SIGNAGE INDICATED ON THE PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

SIGNAGE TYPE	STOCK # (ATSL *)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
LRS-02	CUSTOM	NO BICYCLES c/w T.O.C. LOGO	AL-.081	RECTANGLE c/w ROUNDED CORNERS	30.0cm X 45.0cm	WHITE BACKGROUND, BLACK TRIM AND LETTERS/SYMBOLS RED CIRCLED	REFLECTIVE DG c/w 3M ANTI-GRAFFITI COAT	DESIGNATES A NO BICYCLES ALLOWED IN THAT AREA

\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	  <b>NO BICYCLES</b>
4					CHECKED BY: L. GUEST			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.22



44.45mm CLEARVIEW2

CLEARVIEW2 SIZED TO FIT

SIZE PENDING LOCATION


TEXT TO BE CLEARVIEW2 ITALIC

### REGULATORY SIGNAGE TABLE

ALL SIGNAGE INDICATED ON THE PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

SIGNAGE TYPE	STOCK # (ATSL *)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
LRS-07 T.O.C. DESIGNATION	CUSTOM	DAY USE ONLY c/w T.O.C. LOGO	AL-.081	RECTANGLE c/w ROUNDED CORNERS	81.28cm X 45.72cm	TOP RED BACKGROUND w/ WHITE LETTERS. BOTTOM WHITE BACKGROUND w/ BLACK & RED LETTERS BLACK TRIM LINE	REFLECTIVE DG c/w 3M ANTI-GRAFFITI COAT	DESIGNATES THAT A PARKING LOT IS FOR DAY USE ONLY

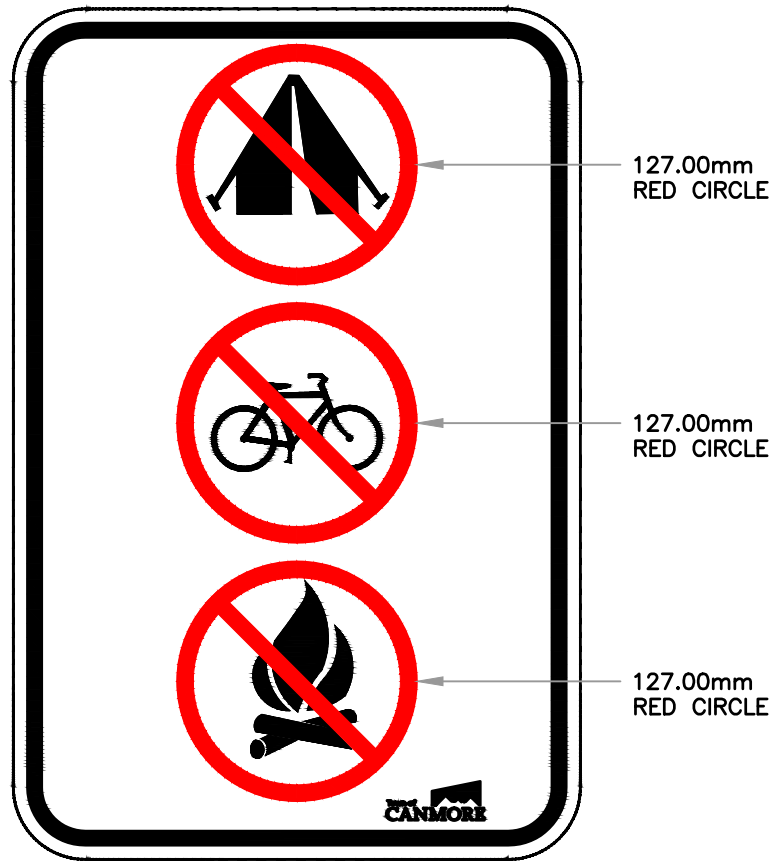
\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>DAY USE ONLY PARKING LOT SIGNAGE</b>
4					CHECKED BY: L. GUEST			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.23

Town of Canmore

Engineering Design & Construction Guidelines






### REGULATORY SIGNAGE TABLE

ALL SIGNAGE INDICATED ON THE PLANS TO CONFORM TO THE SPECIFICATIONS BELOW

SIGNAGE TYPE	STOCK # (ATSL *)	ITEM DESCRIPTION	BACKING	SHAPE	SIZE	COLOUR	FACE	DESCRIPTION
LRS-06 T.O.C. DESIGNATION	CUSTOM	NO CAMPING, BICYCLES OR FIRES SYMBOLS c/w T.O.C. LOGO & BYLAW TEXT	AL-.081	RECTANGLE c/w ROUNDED CORNERS	30.0cm X 45.0cm	WHITE BACKGROUND, BLACK SYMBOLS, RED CIRCLES & BLACK TRIM LINE	REFLECTIVE DG c/w 3M ANTI-GRAFFITI COAT	DESIGNATES THAT THE NOTED ACTIVITIES ARE NOT ALLOWED IN THAT LOCATION

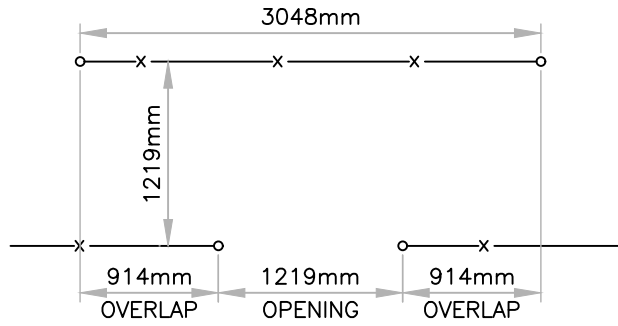
\* ALBERTA TRAFFIC SUPPLY LTD. OR APPROVED EQUIVALENT

5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>NO CAMPING</b> <b>NO BICYCLING</b> <b>NO CAMP FIRES</b>
4					CHECKED BY: L. GUEST			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: LSC 10.24

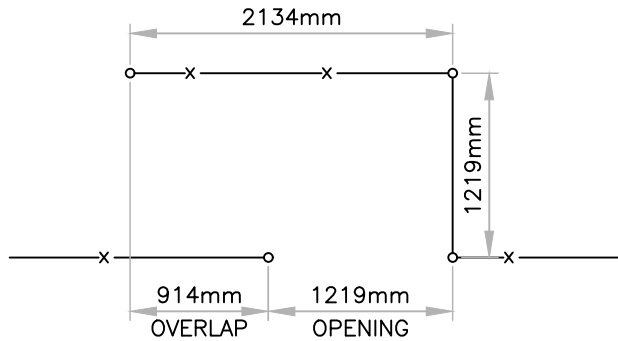
Town of Canmore

**Engineering Design & Construction Guidelines**

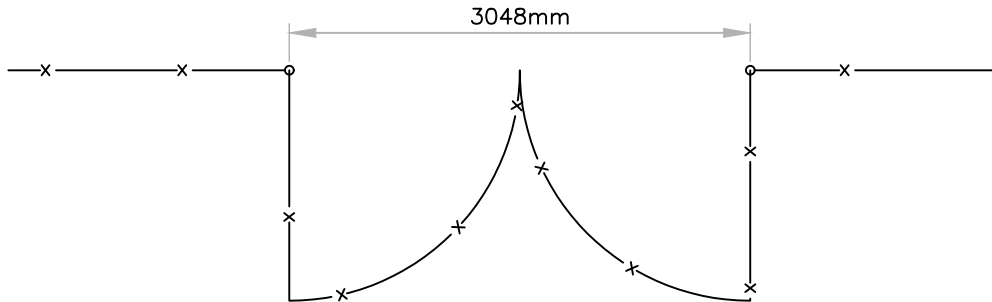
PEDESTRIAN ACCESS – OPTION A



PEDESTRIAN ACCESS – OPTION B




MAINTENANCE ACCESS



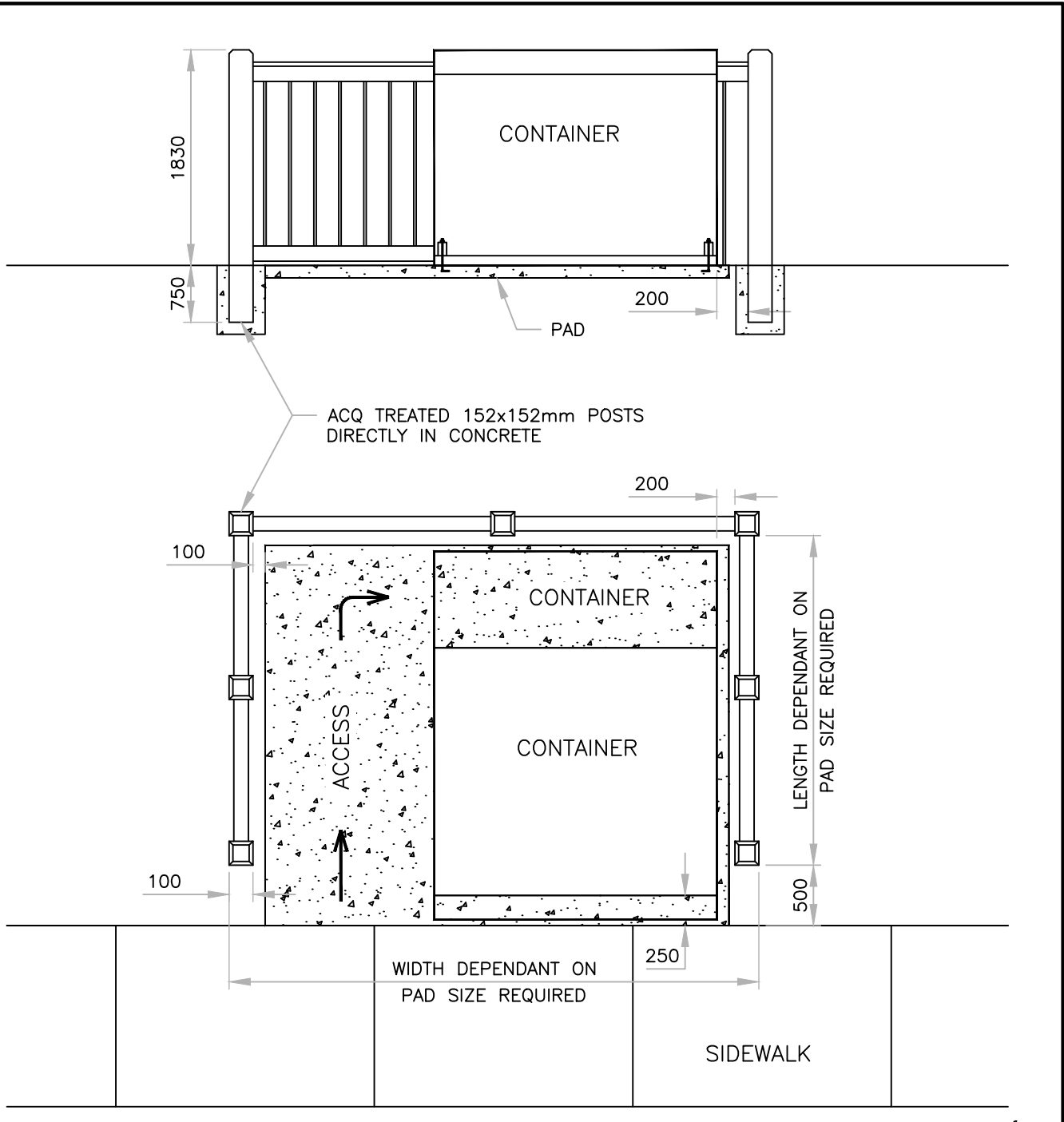
All dimensions in meters unless otherwise noted



DRAWING\_NAME: F:\2018\_EDCG (5320)\DWGS\SECTION 10 -- LANDSCAPE DESIGN\LSC 10.25.DWG


5						DRAWN: B. MORVAN	DATE: AUG 2019	 <b>PEDESTRIAN AND MAINTENANCE ACCESS GATES</b>
4						CHECKED BY: L. GUEST		
3						APPROVED:		
2	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB			
1	03/15/14	REVISED TITLE BLOCK	PL	TR	BB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: 1:50	FIGURE NO.: LSC 10.25

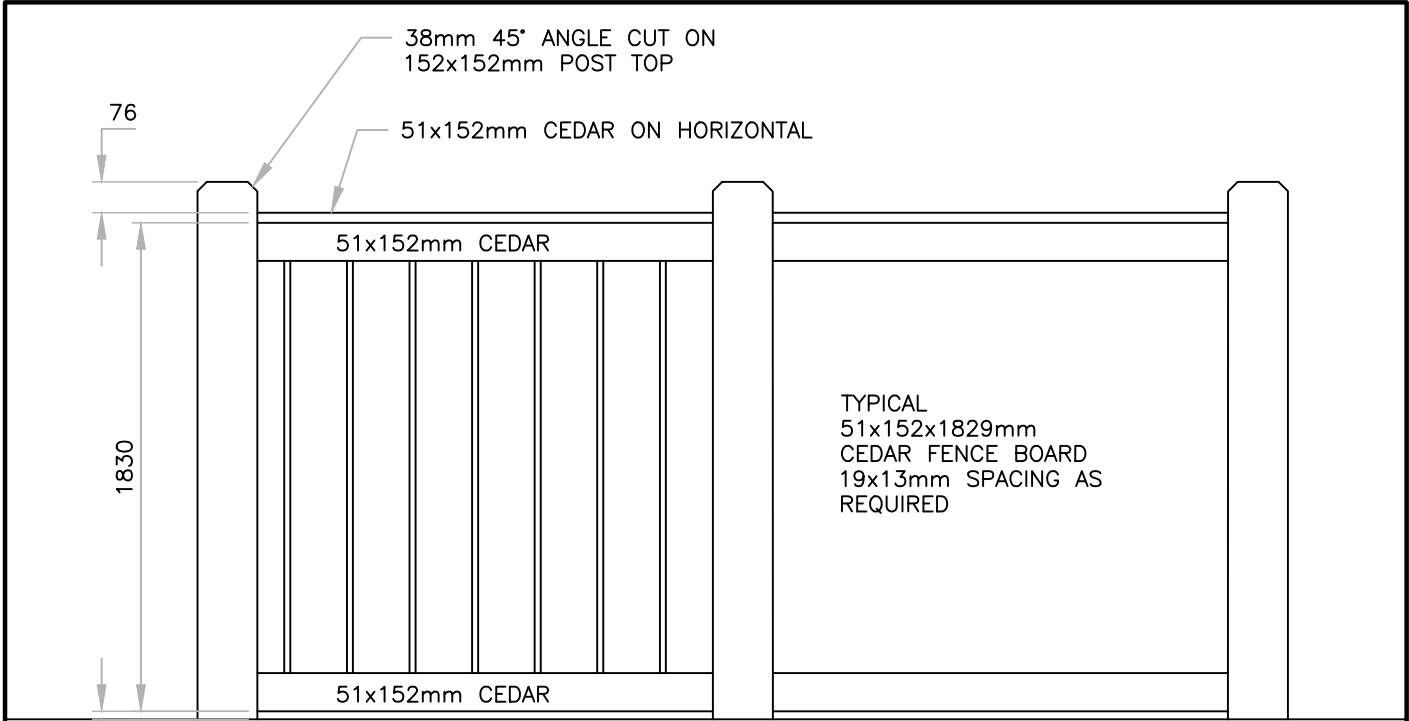
DRAWING NAME: F:\EDCG (5320)\SECTION 11 - SOLID WASTE (SWS XX)\DWG\SWS 11.1.DWG



All dimensions in meters unless otherwise noted

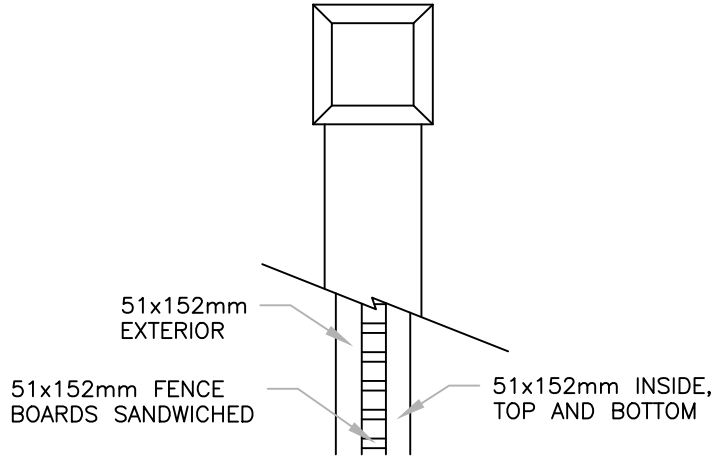


5						DRAWN:	DATE:	 <b>ANIMAL PROOF WASTE CONTAINER</b> <b>ARTIFICIAL SCREEN DIMENSIONS</b>	
4					B. MORVAN	AUG 2019			
3					CHECKED BY:				
2					S. ROBINS				
1	08/14/19	2019 EDCG STANDARDS	BWM	SR	CB	APPROVED:			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS	FIGURE NO.: SWS 11.1



50

EXTERIOR VIEW



TOP PANEL DETAIL

**NOTES**

1. ALL CEDAR FINISHED WITH OIL STAIN.
2. POSTS PAINTED OIL SOLID STAIN, OAK ALLEY COLOUR 7590.
3. ALL FASTENERS SHALL BE NON-CORROSIVE DECK SCREWS OF APPROPRIATE LENGTH.
4. METAL SCREENING IS ACCEPTABLE, DETAILS TO BE PROVIDED FOR APPROVAL.

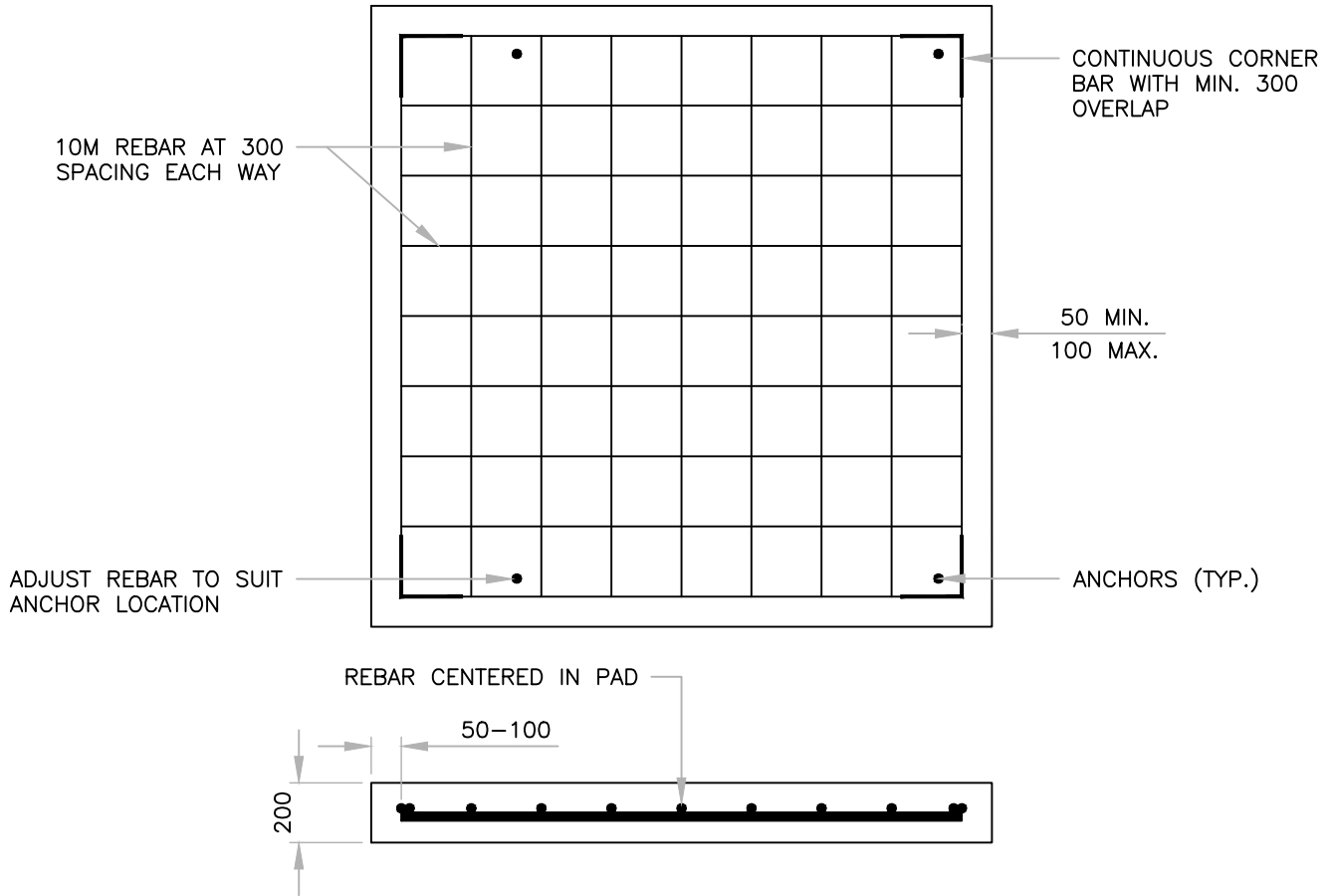
All dimensions in meters unless otherwise noted

DRAWING NAME: F:\EDCG (5320)\SECTION 11 - SOLID WASTE (SWS XX)\DWG\SWS 11.2.DWG

5						DRAWN:	DATE:	<p><b>ANIMAL PROOF WASTE CONTAINER ARTIFICIAL SCREEN DETAIL</b></p>	
4					B. MORVAN	AUG 2019			
3					CHECKED BY:				
2					S. ROBINS				
1	08/14/19	2019 EDCG STANDARDS	BWM	SR	CB	APPROVED:			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE		SCALE: NTS	
							FIGURE NO.:		SWS 11.2

DRAWING NAME: F:\EDCG (5320)\SECTION 11 - SOLID WASTE (SWS XX)\DWG\SWS 11.3.DWG

REINFORCING



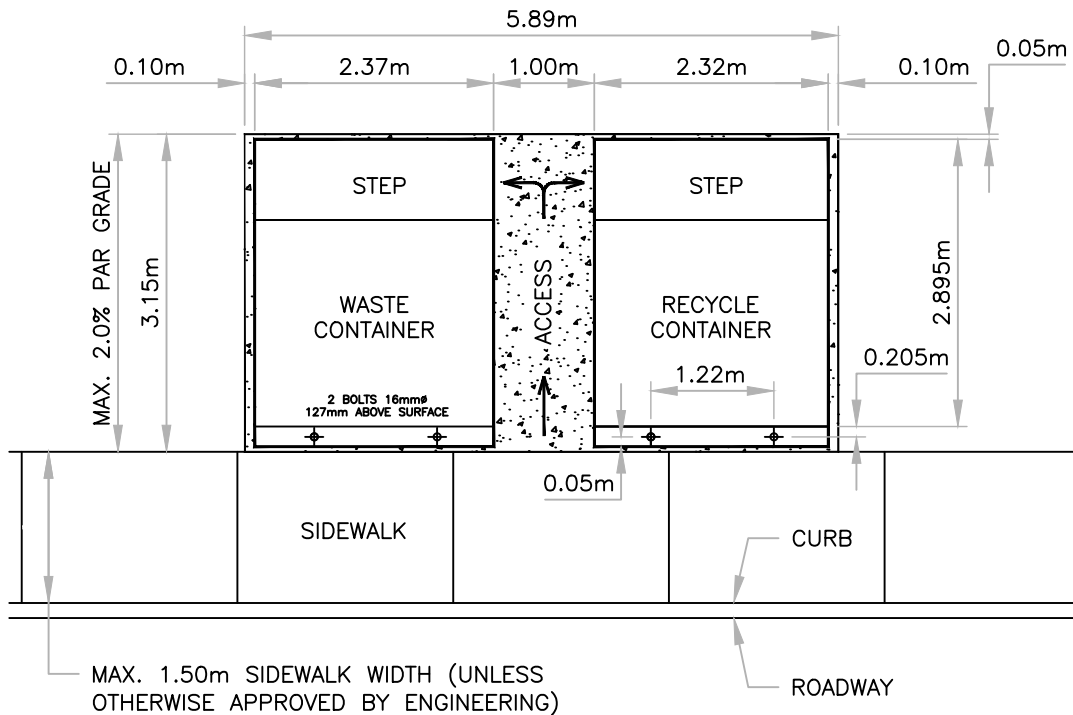
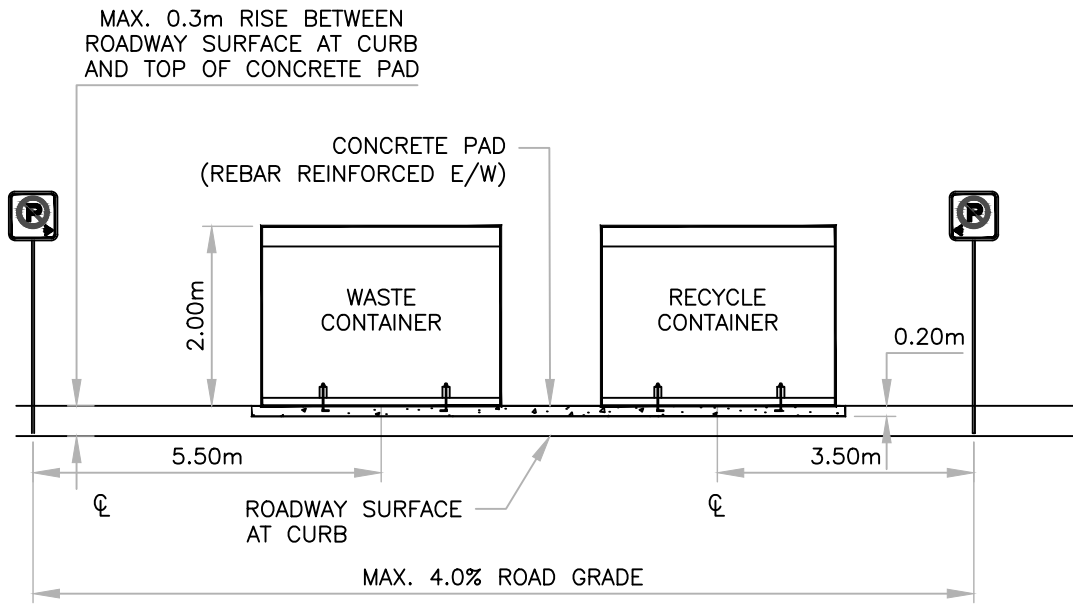
**ANCHOR NOTES**

1. CONCRETE 75MM STAINLESS STEEL ANCHOR BOLTS SET IN TWO PART EPOXY OR ACRYLIC BONDING AGENT.
2. ANCHORS TO BE HILTI, RED HEAD OR APPROVED EQUAL.
3. ANCHORS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. MINIMUM TEMPERATURE FOR INSTALLATION IS 4° C. CONCRETE SHALL BE HEATED FOR BONDING AGENT CURING TIME IF TEMPERATURES ARE LESS THAN 4°C.
- 5.

All dimensions in meters unless otherwise noted

5						DRAWN: B. MORVAN	DATE: AUG 2019	<b>Town of CANMORE</b>  <b>ANIMAL PROOF WASTE CONTAINER PAD CONSTRUCTION AND ANCHOR</b>
4					CHECKED BY: S. ROBINS			
3					APPROVED:			
2								
1	08/14/19	2019 EDCG STANDARDS	BWM	SR	CB	MANAGER OF ENGINEERING TOWN OF CANMORE		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	SCALE: NTS	FIGURE NO.: SWS 11.3	

DRAWING NAME: F:\EDCG (5320)\SECTION 11 - SOLID WASTE (SWS XX)\DWG\SWS 11.4.DWG



**NOTES**

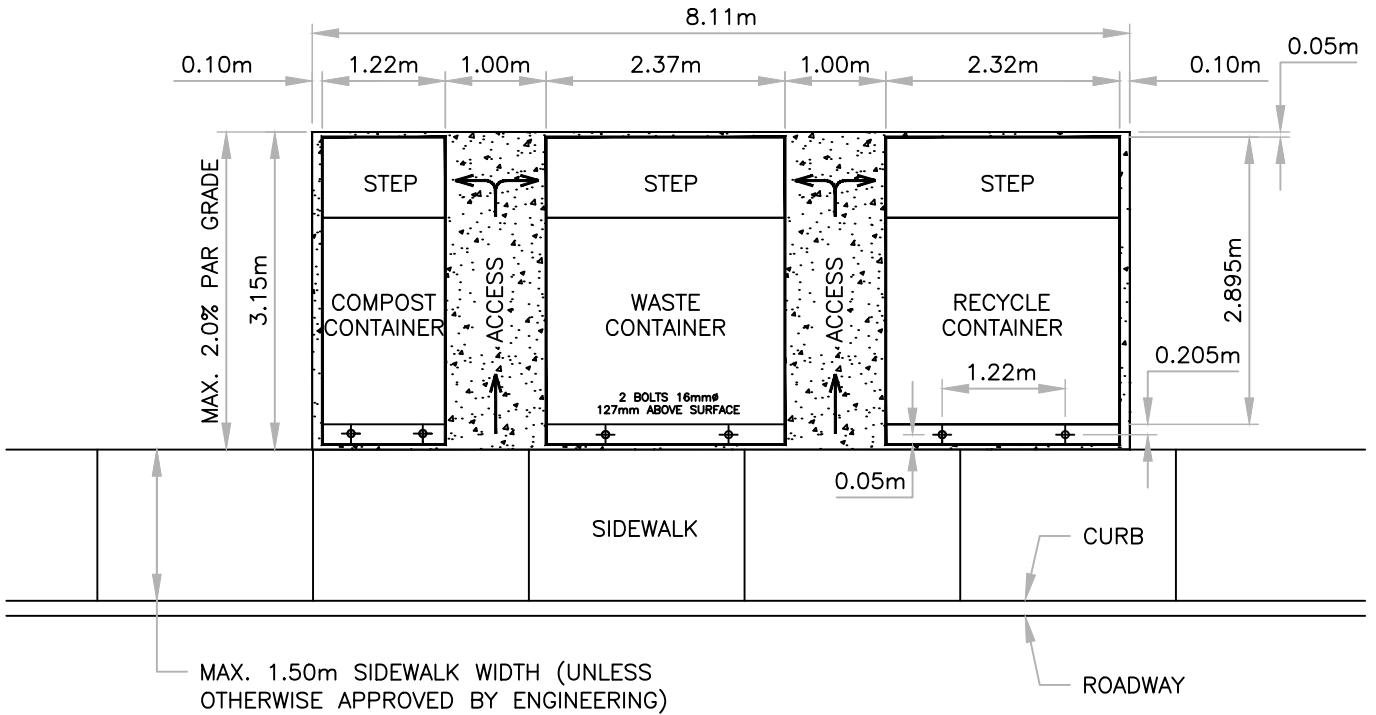
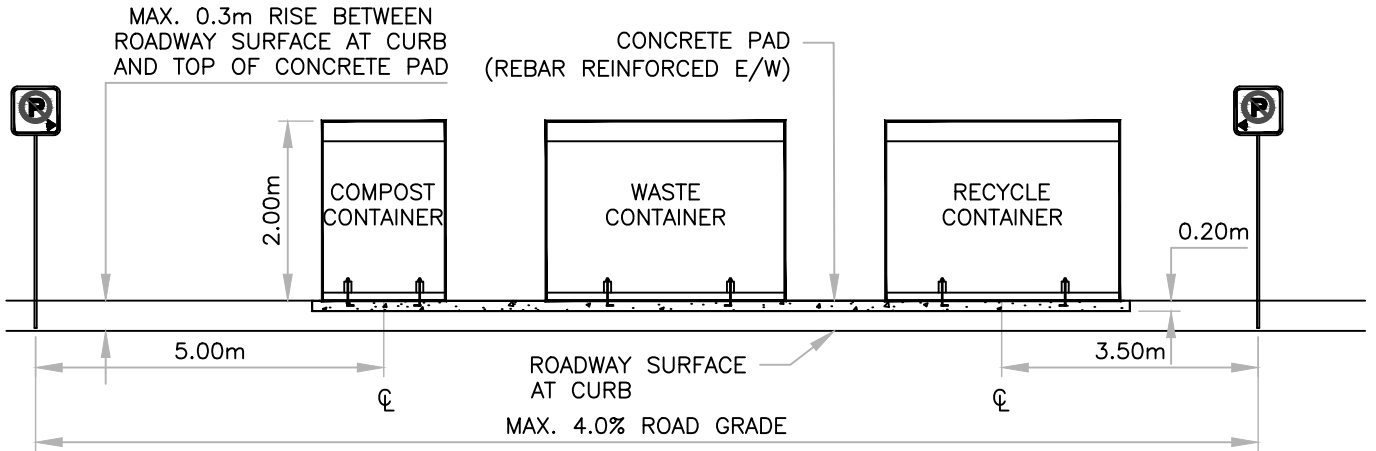
1. CONCRETE PAD TO BE REINFORCED AS PER DRAWING SWS 11.3.
2. SIDEWALK ALIGNMENT AND WIDTH TO BE REVIEWED WITH ENGINEERING AT TIME OF DEVELOPMENT PERMIT APPLICATION.

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	 <b>ANIMAL PROOF WASTE CONTAINER DOUBLE PAD (LARGE)</b>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:			
2					S. ROBINS			
1	08/14/19	2019 EDCG STANDARDS	BWM	SR	CB	APPROVED:		
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: SWS 11.4



DRAWING\_NAME: F:\EDCG (5320)\SECTION 11 - SOLID WASTE (SWS XX)\DWG\SWS 11.5.DWG



**NOTES**

1. CONCRETE PAD TO BE REINFORCED AS PER DRAWING SWS-08.
2. SIDEWALK ALIGNMENT AND WIDTH TO BE REVIEWED WITH ENGINEERING AT TIME OF DEVELOPMENT PERMIT APPLICATION.

All dimensions in meters unless otherwise noted

5						DRAWN:	DATE:	<p><b>ANIMAL PROOF WASTE CONTAINER TRIPLE PAD (LARGE)</b></p>
4					B. MORVAN	AUG 2019		
3					CHECKED BY:	S. ROBINS		
2					APPROVED:			
1	08/14/19	2019 EDCG STANDARDS	BWM	SR	CB			
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG	MANAGER OF ENGINEERING TOWN OF CANMORE	SCALE: NTS	FIGURE NO.: SWS 11.5