

SECTION A-A

SCALE: NTS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SPECIFIED.
2. SERVICES TO EXTEND 1.5m INSIDE PROPERTY LINE.
3. UNDER NO CIRCUMSTANCE SHALL SERVICES CROSS ONE ANOTHER.
4. ALL UNDERGROUND SERVICE CABLES TO BE PLACED MINIMUM 1.0m BELOW FINISHED GRADE AT LOTS.
5. SHUT-OFF VALVES AND SEWER CLEANOUTS TO BE PLACED ON PROPERTY LINE.

NO.	REVISION	APR'D	DATE
1	REVISED WATER SERVICE		JUL/15
2	2023 UPDATE		DEC/23



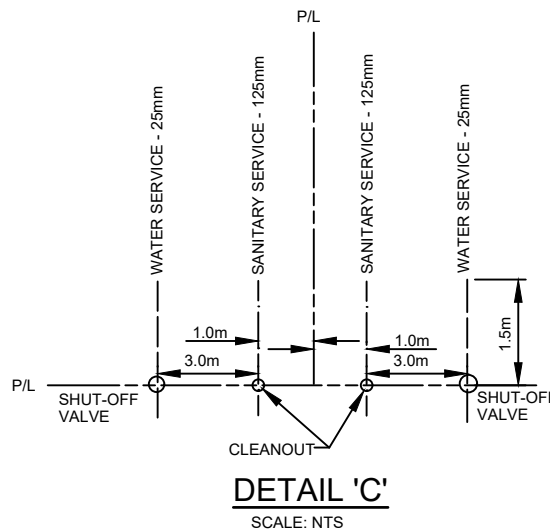
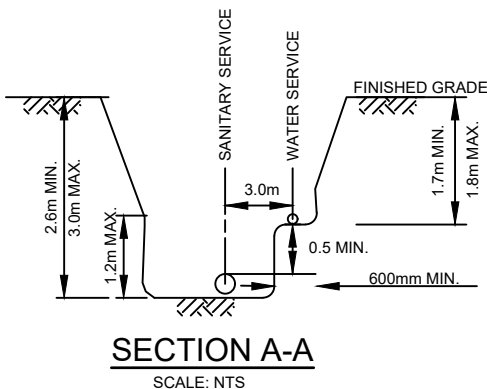
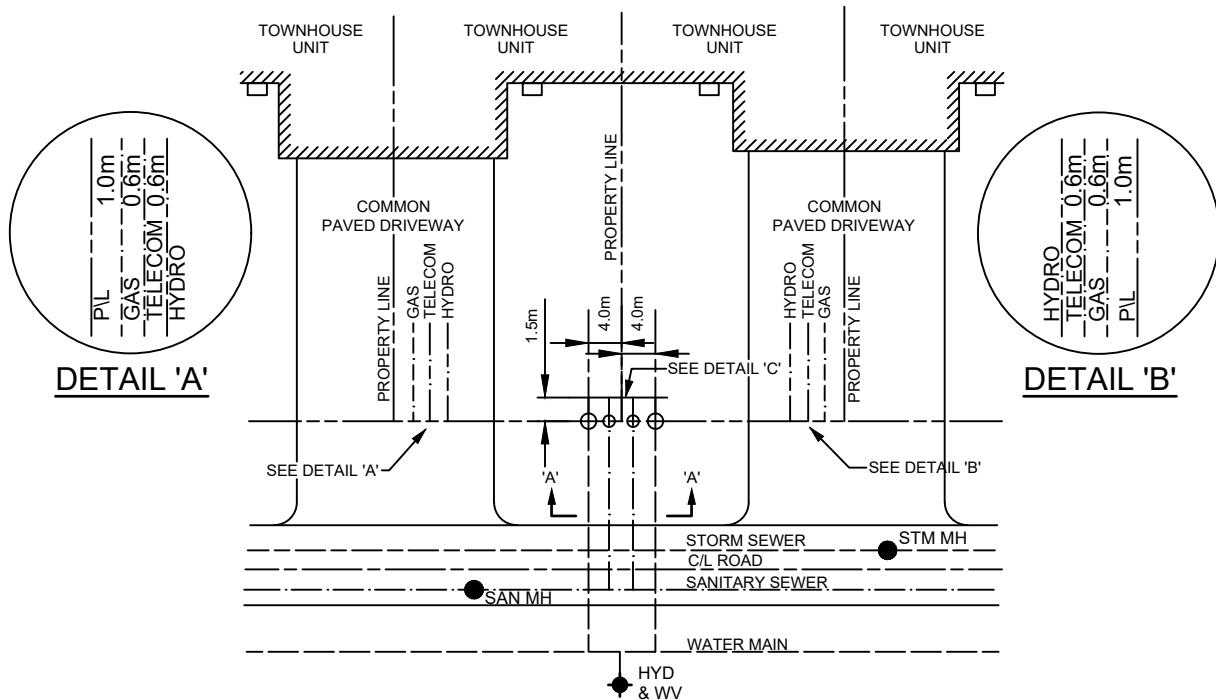
TOWNSHIP OF SEVERN

SERVICE LOCATION - SINGLE FAMILY & SEMI-DETACHED RESIDENTIAL

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

101



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SPECIFIED.
2. SERVICES TO EXTEND 1.5m INSIDE PROPERTY LINE.
3. UNDER NO CIRCUMSTANCE SHALL SERVICES CROSS ONE ANOTHER.
4. ALL UNDERGROUND SERVICE CABLES TO BE PLACED MINIMUM 1.0m BELOW FINISHED GRADE AT LOTS.
5. SHUT-OFF VALVES AND SEWER CLEANOUTS TO BE PLACED ON PROPERTY LINE.

NO.	REVISION	APR'D	DATE
1	REVISED WATER SERVICE		JUL/15
2	2023 UPDATE & RENUMBERED		DEC/23



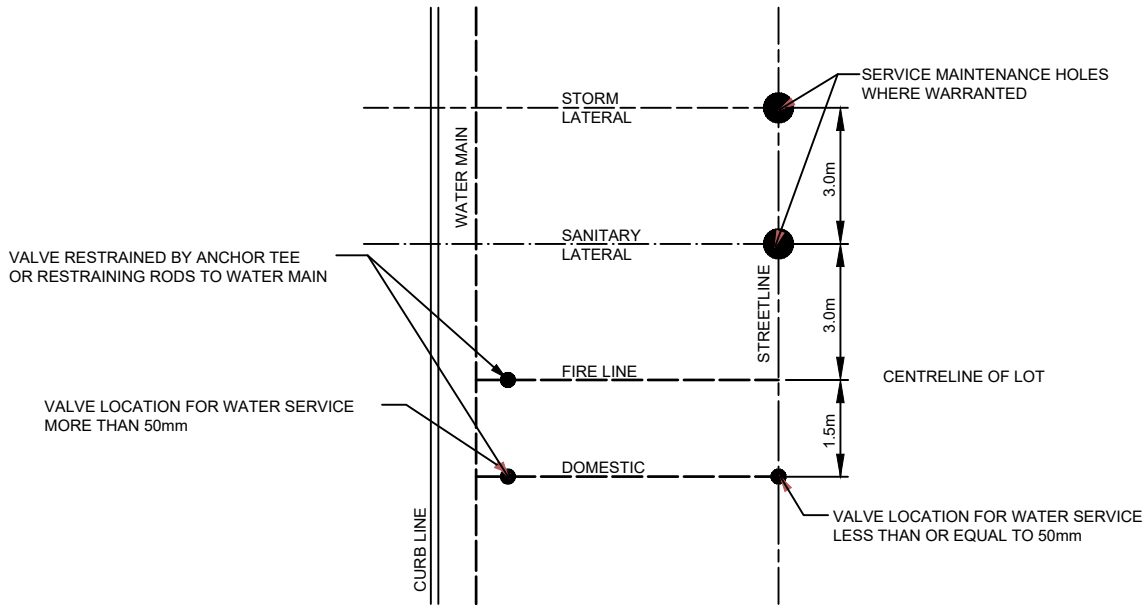
TOWNSHIP OF SEVERN

**SERVICE LOCATION
TOWNHOUSE UNITS**

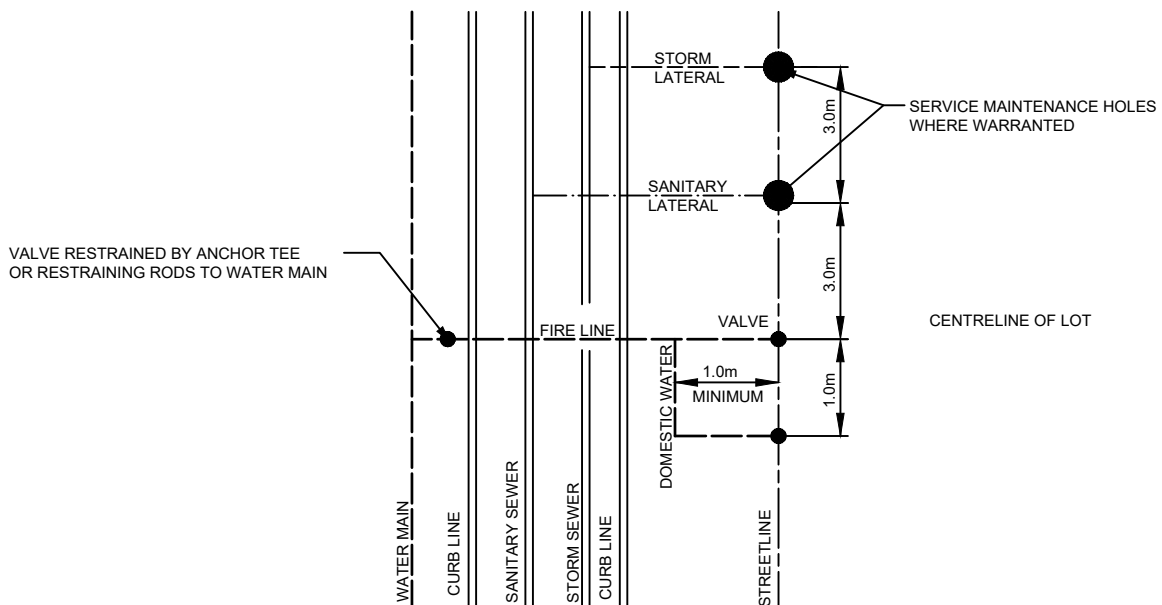
APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

102



SHORT SIDE CONNECTION



LONG SIDE CONNECTION

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. SERVICE LOCATIONS TO BE CONFIRMED WITH THE TOWNSHIP.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23



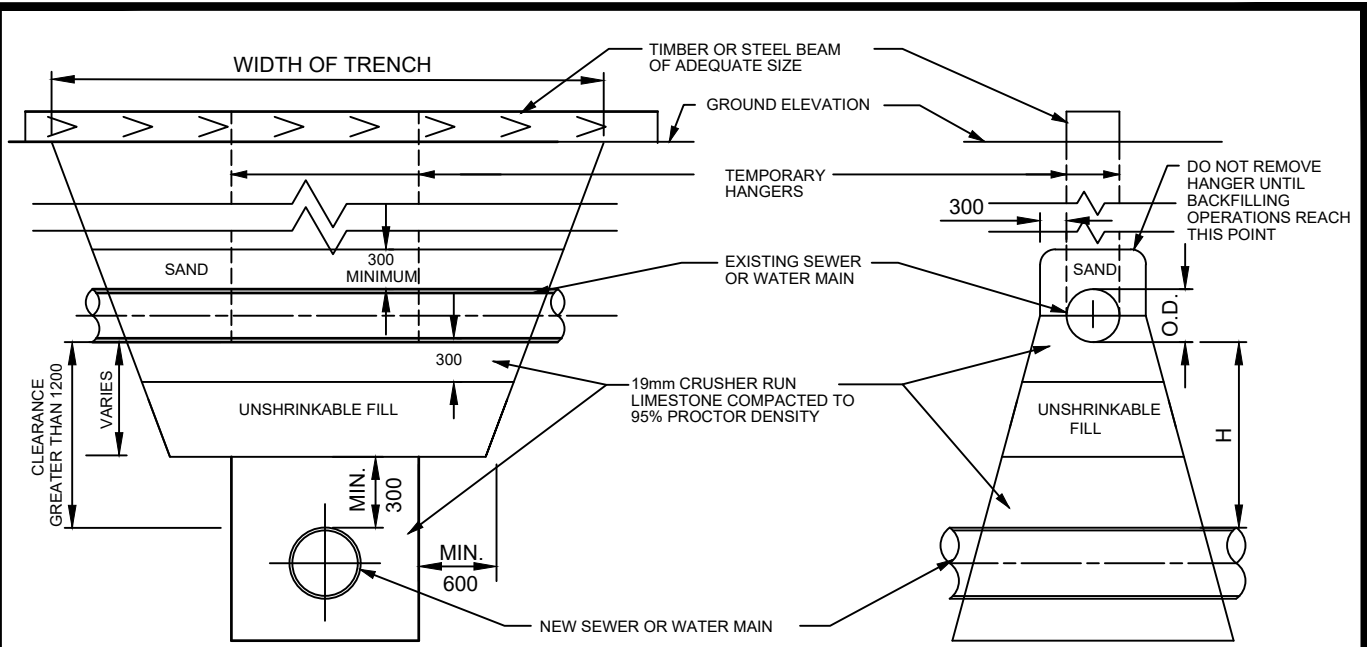
TOWNSHIP OF SEVERN

SERVICE LOCATION - COMMERCIAL, INDUSTRIAL AND MULTI-RESIDENTIAL

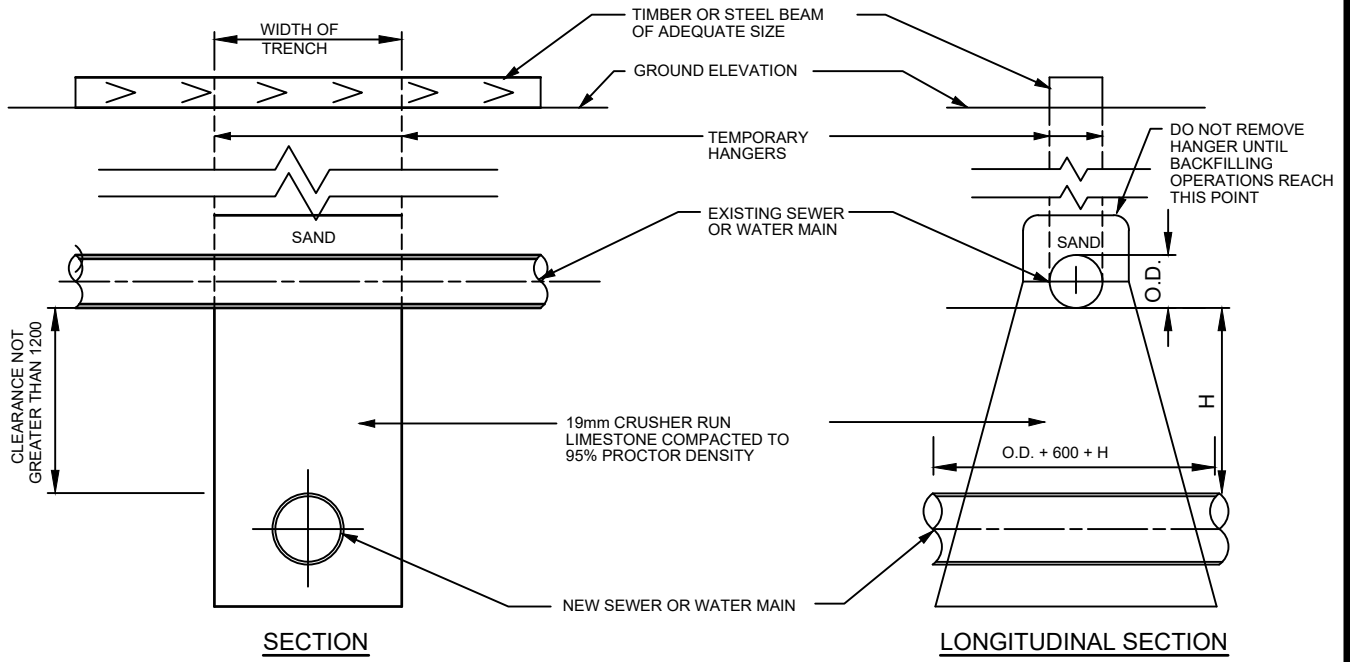
APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

103



CLEARANCE GREATER THAN 1200



CLEARANCE NOT GREATER THAN 1200

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- 2. THIS DETAIL TO BE USED IN DRY STABLE CONDITIONS ONLY.

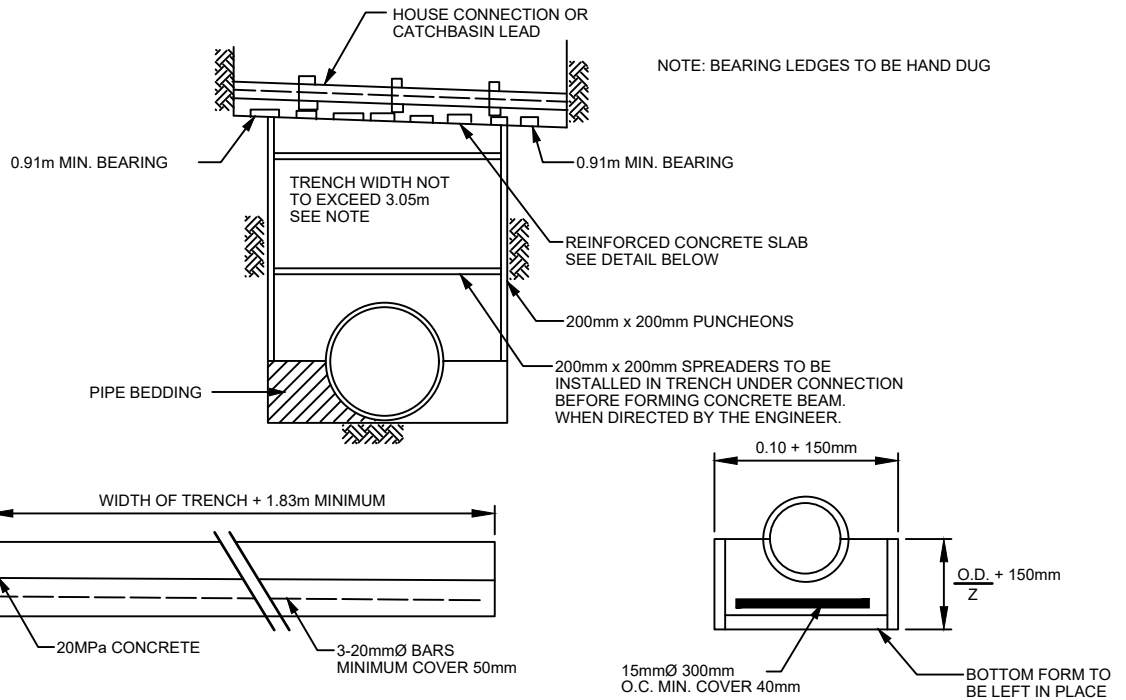
NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23



TOWNSHIP OF SEVERN

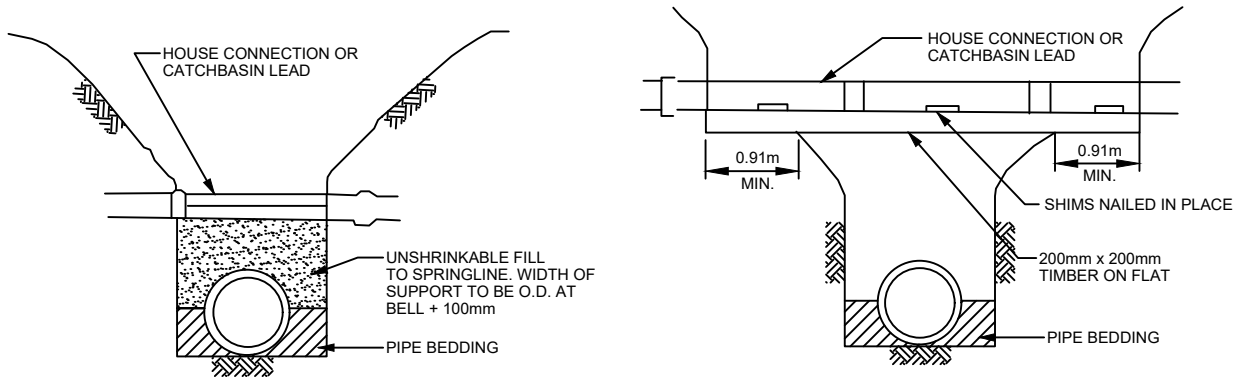
SUPPORTS FOR WATER MAINS AND SEWERS CROSSING NEW TRENCHES

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS
STD. No.	104



REINFORCED CONCRETE SUPPORT FOR HOUSE CONNECTIONS AND CATCHBASIN LEADS WHEN WIDTH OF TRENCH EXCEEDS 1.52m BUT LESS THAN 3.05m

NOTE: WHEN WIDTH OF TRENCH EXCEEDS 3.05m METHOD OF SUPPORTING HOUSE CONNECTIONS AND CATCHBASIN LEADS WILL BE AS DIRECTED BY THE ENGINEER.



SUPPORT FOR CONNECTION CROSSING TRENCH WHEN WIDTH OF TRENCH IS LESS THAN 1.52m

NOTES:

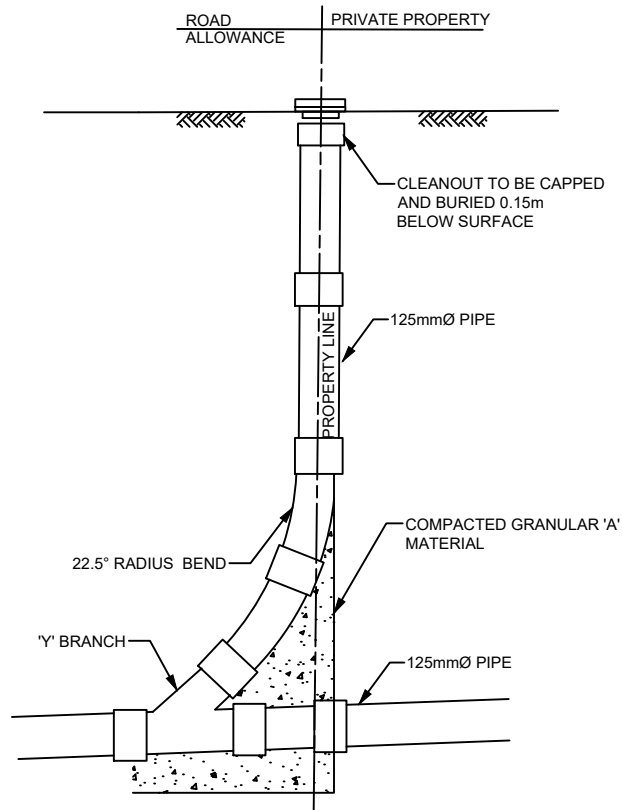
1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SPECIFIED.
2. WHERE HOUSE CONNECTIONS OR CATCHBASIN LEADS CROSS A SEWER TRENCH, THEY WILL BE SUPPORTED ON A NEW 20mm x 200mm TIMBER WHICH HAS A MINIMUM BEARING OF 0.91M AT EACH END ON UNDISTURBED GROUND. CONNECTION MUST BE PROPERLY SHIMMED OR BEDDED ON 20MPa CONCRETE FILL TO SPRINGLINE AS PER DETAILS.
3. TO BE USED WHEN INSTALLING SEWER OR WATERMAIN ON EXISTING R.O.W.
4. FOR ALL CROSSING OF GAS MAINS, CONTRACTOR TO CONTACT GAS COMPANY FOR LOCATES AND INSPECTIONS.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23

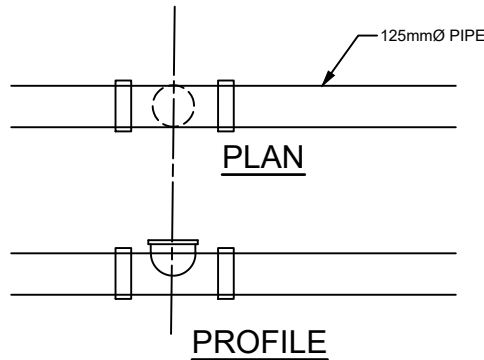


TOWNSHIP OF SEVERN
SUPPORTS FOR HOUSE CONNECTIONS AND CATCH BASIN LEADS

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS
STD. No.	105



SURFACE CLEANOUT



RUNNING CLEANOUT

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SPECIFIED.
2. ALL FITTINGS TO BE APPROVED PVC OR EQUIVALENT.
3. CLEANOUTS ARE NOT TO BE LOCATED IN A DRIVEWAY.
4. CONCRETE CRADLE SHALL NOT BE USED FOR P.V.C. PIPE.
5. SANITARY SEWER CLEANOUTS SHALL BE PLACED WHERE LATERAL SERVICES EXCEED 30m IN LENGTH WITHIN THE PUBLIC R.O.W.
6. WHERE PARTIAL BASEMENTS ARE CONSTRUCTED FOR DEVELOPMENT PROJECTS, CLEANOUTS SHALL BE PLACED 3.0 METRES FROM THE BUILDING ENVELOPE.
7. CLEANOUTS SHALL NOT BE PLACED IN REGISTERED EASEMENTS.

NO.	REVISION	APR'D	DATE
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TOWNSHIP OF SEVERN

SANITARY SEWER CLEANOUTS

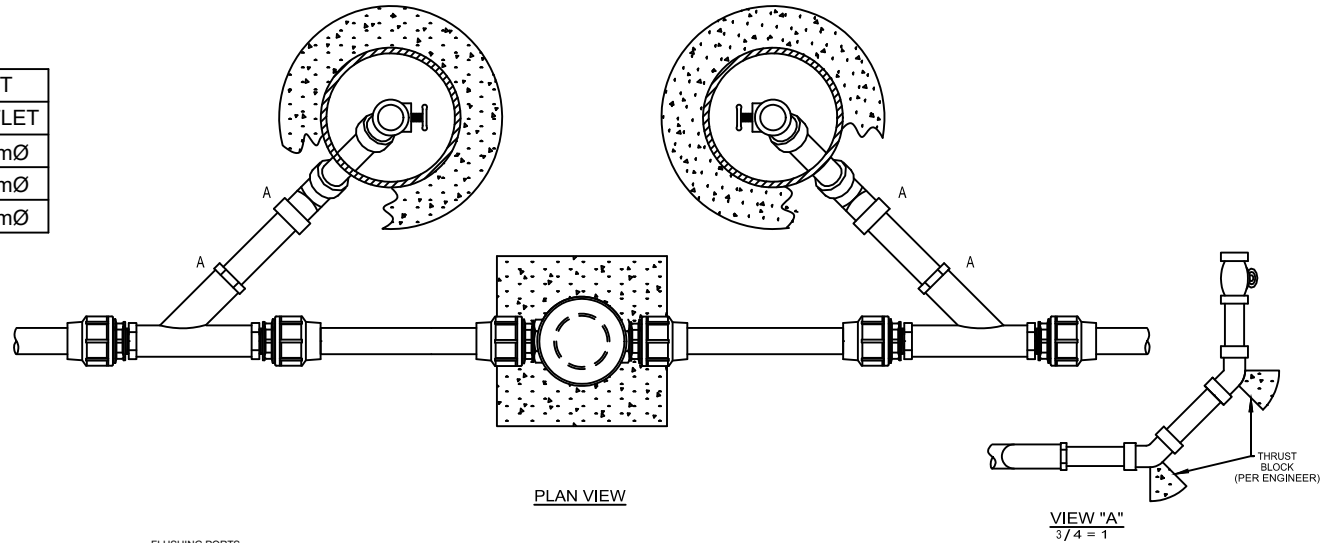
APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

106

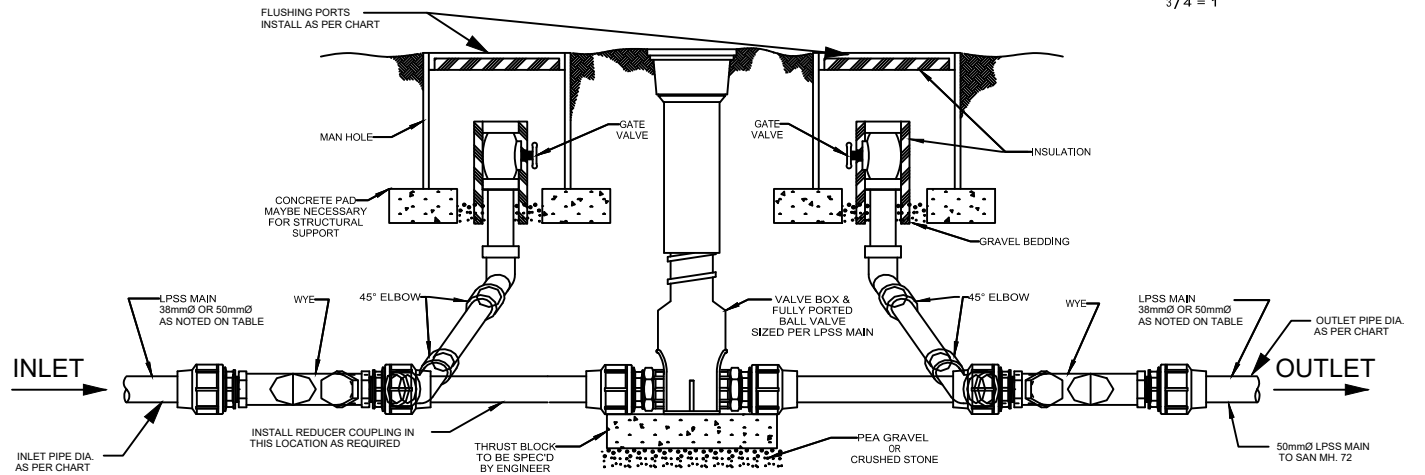
CLEAN-OUT	PIPE DIA.		FLUSHING PORT	
	INLET	OUTLET	INLET	OUTLET
C.O. #1	38mmØ	38mmØ	N/R	38mmØ
C.O. #2	38mmØ	50mmØ	38mmØ	50mmØ
C.O. #3	50mmØ	50mmØ	50mmØ	50mmØ

N/R = NOT REQUIRED



PLAN VIEW

VIEW "A"
3/4 = 1



TYPICAL CLEANOUT/FLUSHING CONNECTION ON LPSS MAIN



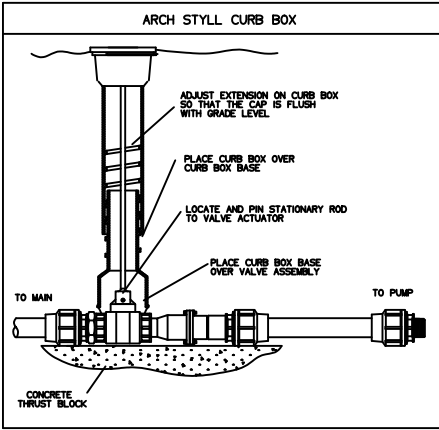
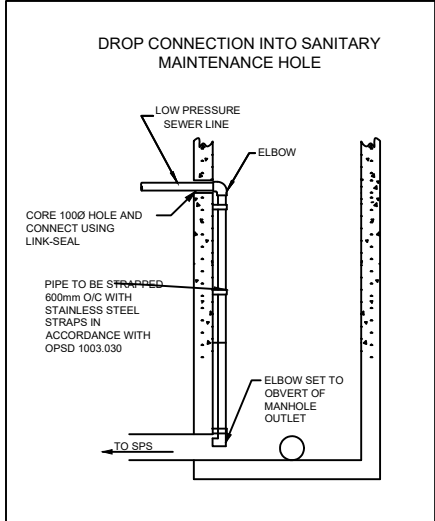
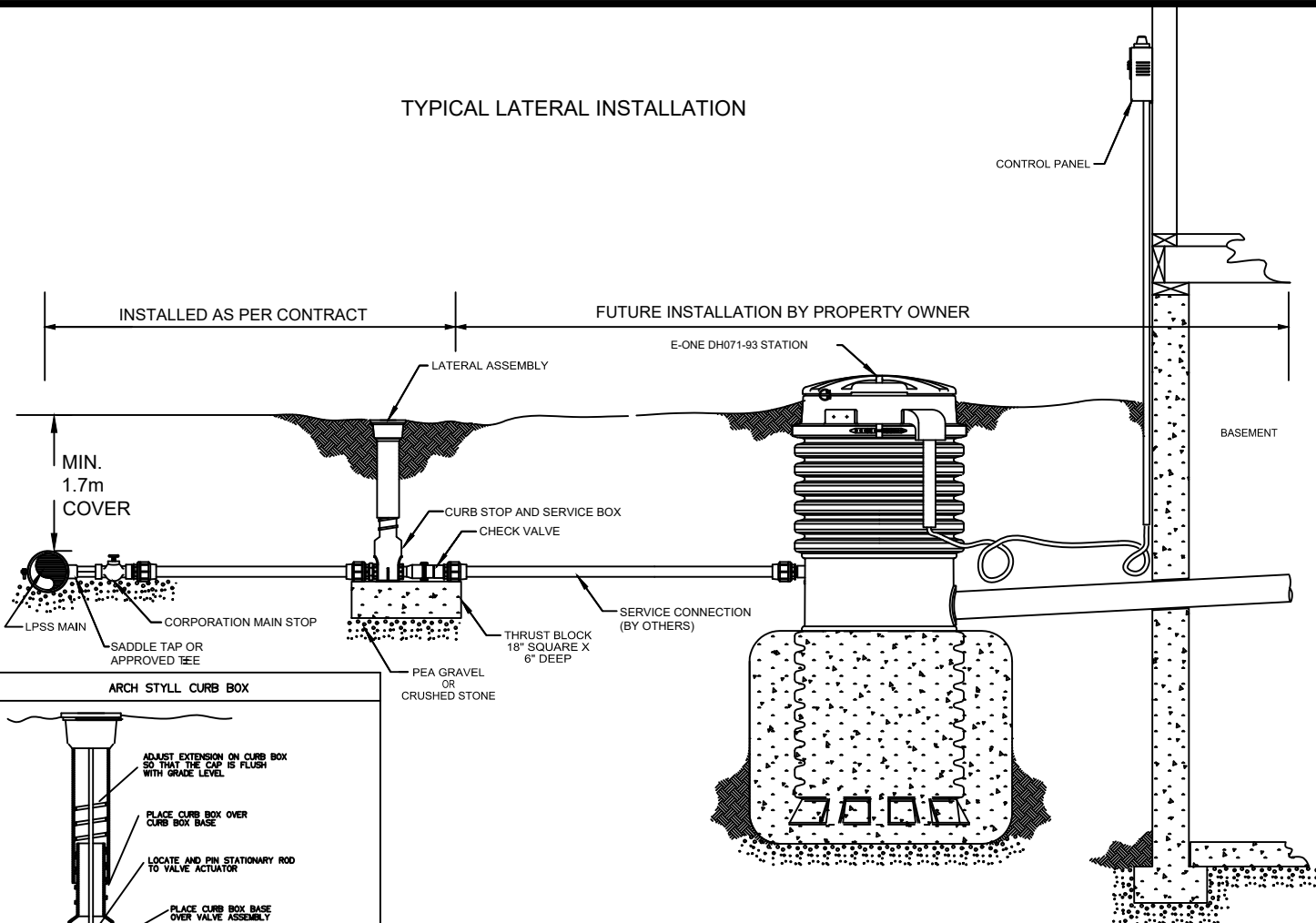
NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23

TOWNSHIP OF SEVERN

**LOW PRESSURE SANITARY SEWER
CLEANOUT**

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS
STD. No.	107	

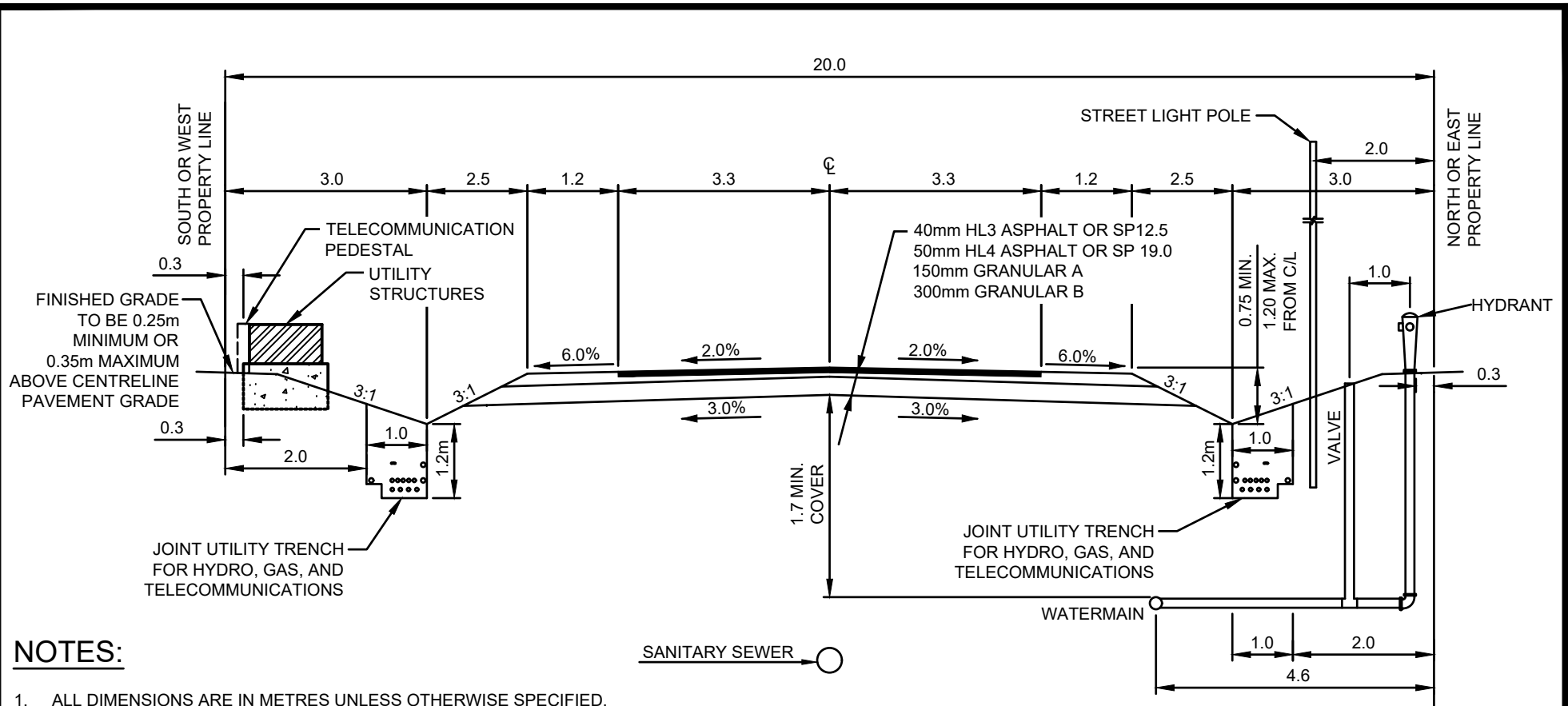
TYPICAL LATERAL INSTALLATION



NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23

TOWNSHIP OF SEVERN
LOW PRESSURE SANITARY SEWER GRINDER PUMP SYSTEM

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS
STD. No.	108	



NOTES:

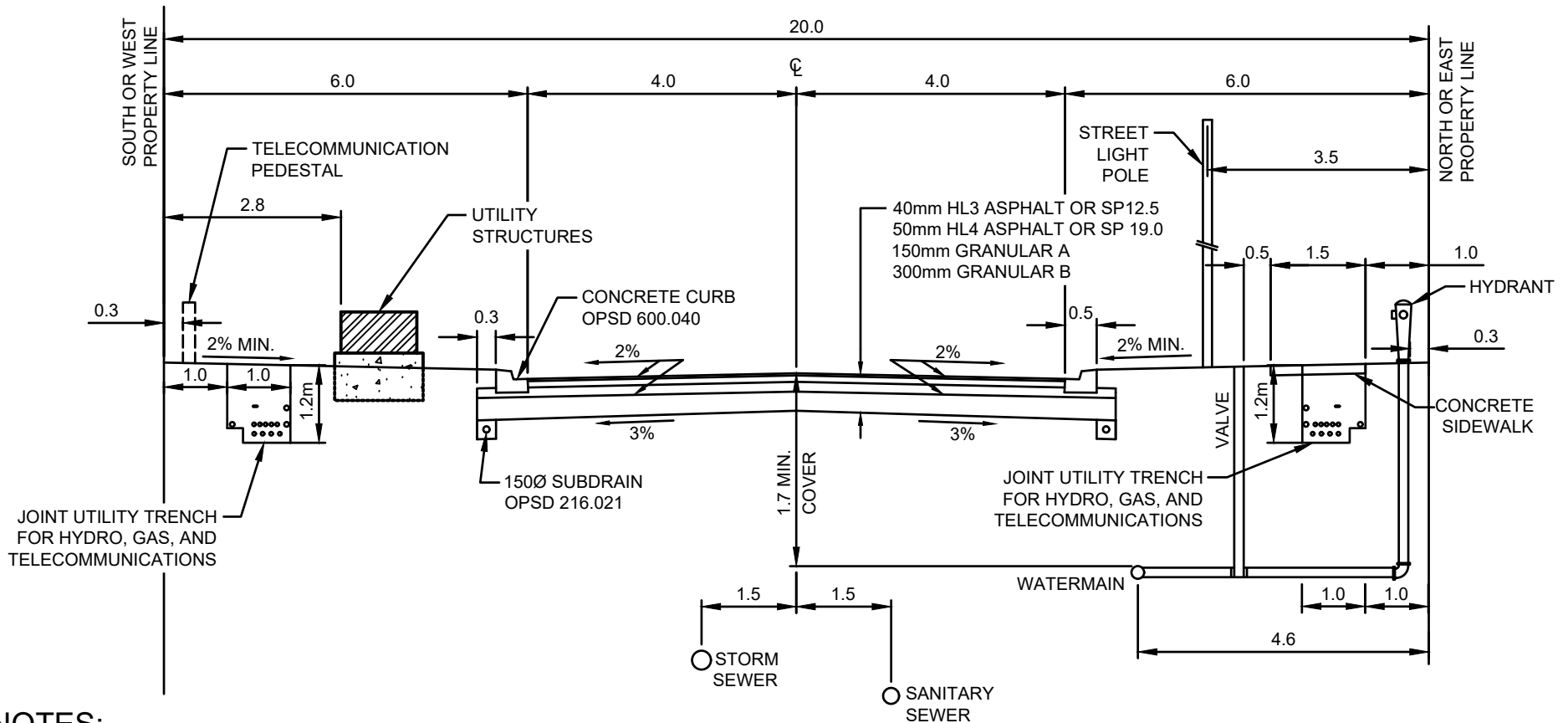
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWNSHIP OF SEVERN ENGINEERING CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. DITCH GRADE TO BE MIN. 0.5%, MAX. 6.0% AND RESTORED WITH 150mm TOPSOIL & SOD.
4. ALL SERVICE LOCATIONS SHOWN ARE FOR GUIDELINE PURPOSES ONLY AND MAY DEVIATE AS PER THE DIRECTION OF THE TOWNSHIP WHEN STANDARD LOCATION CANNOT BE ACHIEVED.
5. ALL WATER CURB STOPS TO BE PLACED ON STREETLINE.
6. A 3.0 m WIDE PLATFORM AREA SHALL BE CONSTRUCTED FOR EACH FIRE HYDRANT. THE MINIMUM CULVERT LENGTH SHALL BE 7.0 m AND THE MINIMUM DIAMETER SHALL BE 300mm. PLATFORM AREAS SHALL BE RESTORED WITH 100mm TOPSOIL AND SOD.
7. SEE JOINT UTILITY TRENCH STANDARD DRAWING FOR 4 PARTY DETAILS. WHERE JOINT UTILITY TRENCH IS NOT USED, GAS IS TO BE 0.6m OFFSET FROM PROPERTY LINE, TELECOMMUNICATIONS IS TO BE 1.2m OFFSET FROM PROPERTY LINE, AND HYDRO IS TO BE 2.0m OFFSET FROM PROPERTY LINE.
8. ALL HOUSE SERVICES TO BE MINIMUM 0.76m BELOW DITCH GRADE AND INSTALLED AS REQUIRED.



NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

TOWNSHIP OF SEVERN	
SEMI-URBAN LOCAL ROAD (OPEN DITCH) 20.0m ROAD ALLOWANCE 6.6m ASPHALT	

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS
STD. No.	201	



NOTES:

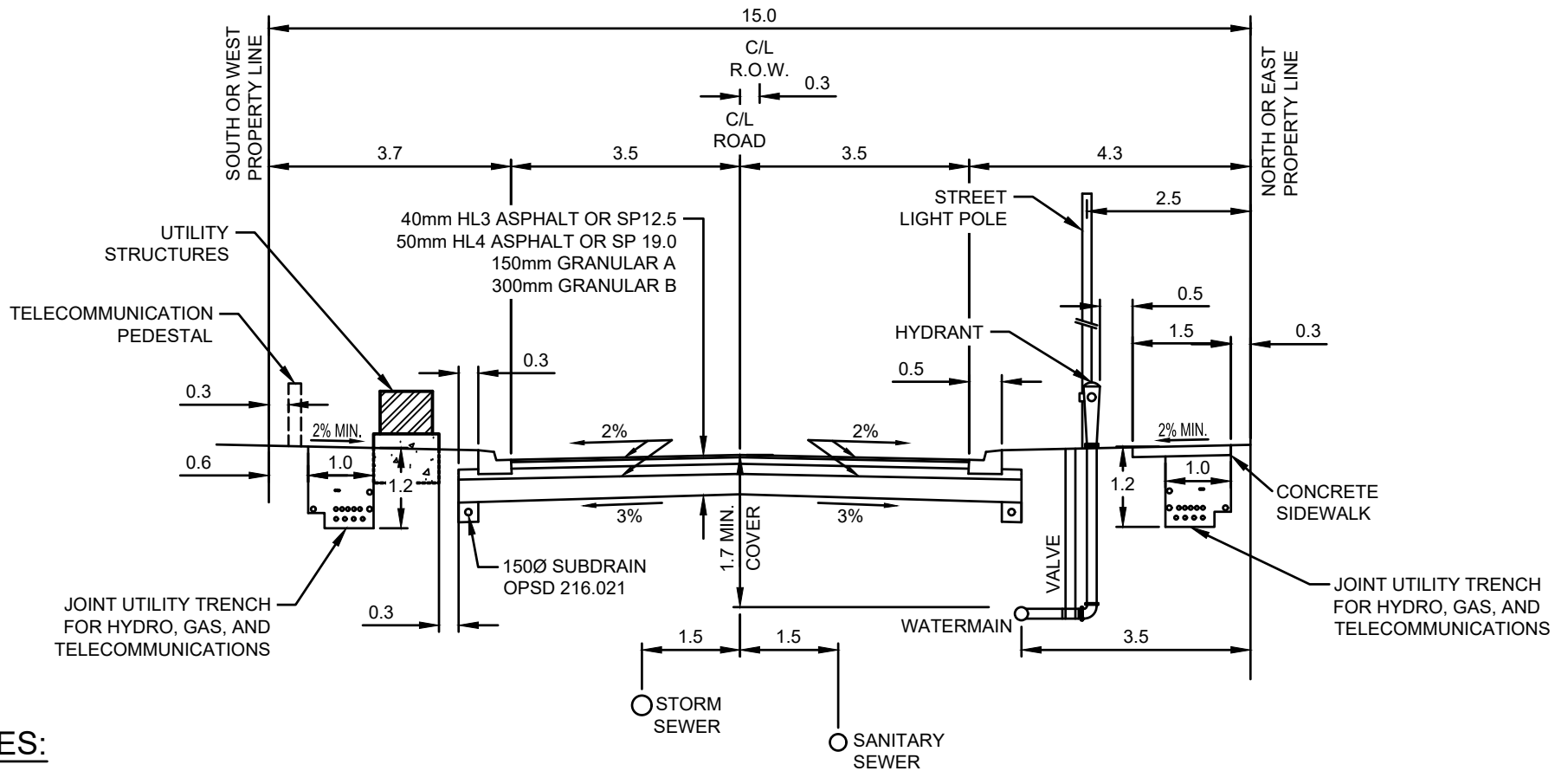
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWNSHIP OF SEVERN ENGINEERING CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. ALL SERVICE LOCATIONS SHOWN ARE FOR GUIDELINE PURPOSES ONLY AND MAY DEVIATE AS PER THE DIRECTION OF THE TOWNSHIP WHEN STANDARD LOCATION CANNOT BE ACHIEVED.
4. WHERE ONE SIDEWALK IS CONSTRUCTED IT SHALL BE ON THE NORTH AND EAST SIDE OF THE ROAD.
5. ALL WATER CURB STOPS TO BE PLACED ON STREETLINE.
6. BOULEVARD TO BE RESTORED WITH 150mm TOPSOIL & SOD.
7. SEE JOINT UTILITY TRENCH STANDARD DRAWING FOR 4 PARTY DETAILS.



NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23

TOWNSHIP OF SEVERN
LOCAL RESIDENTIAL ROAD 20.0m ROAD ALLOWANCE 8.0m ASPHALT

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS
STD. No.	202	



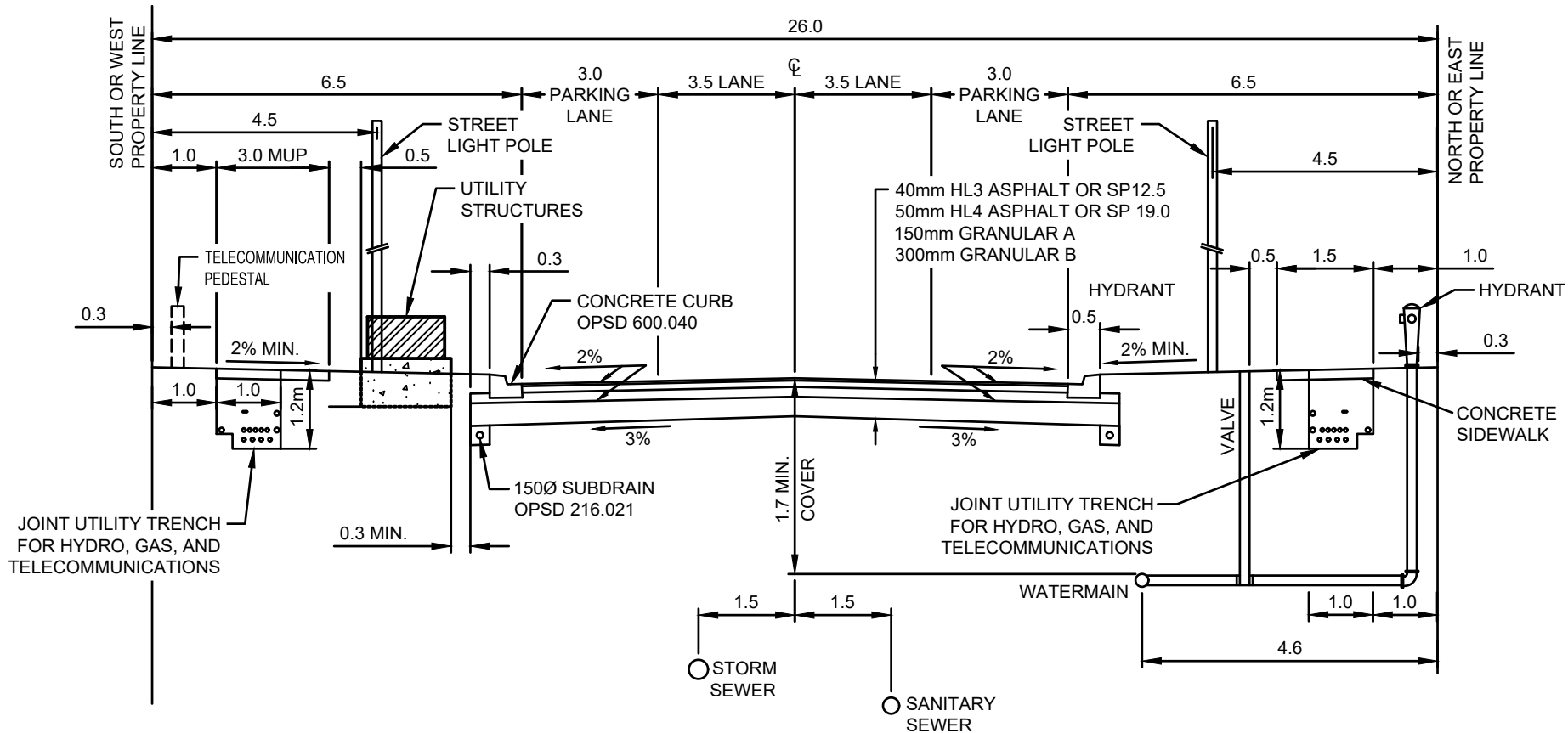
NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWNSHIP OF SEVERN ENGINEERING CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. ALL SERVICE LOCATIONS SHOWN ARE FOR GUIDELINE PURPOSES ONLY AND MAY DEVIATE AS PER THE DIRECTION OF THE TOWNSHIP WHEN STANDARD LOCATION CANNOT BE ACHIEVED.
4. ALL WATER CURB STOPS TO BE PLACED ON STREETLINE.
5. BOULEVARD TO BE RESTORED WITH 150mm TOPSOIL & SOD.
6. SEE JOINT UTILITY TRENCH STANDARD DRAWING FOR 4 PARTY DETAILS.
7. STANDARD TOWNSHIP OFFSETS DO NOT APPLY IN THIS SCENARIO.



NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

TOWNSHIP OF SEVERN	APR'D:	DATE: 2023
	DRAWN:	SCALE: NTS
URBAN LOCAL RESIDENTIAL ROAD 15.0m ROAD ALLOWANCE 7.0m ASPHALT	STD. No.	203



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWNSHIP OF SEVERN ENGINEERING CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. ALL SERVICE LOCATIONS SHOWN ARE FOR GUIDELINE PURPOSES ONLY AND MAY DEVIATE AS PER THE DIRECTION OF THE TOWNSHIP WHEN STANDARD LOCATION CANNOT BE ACHIEVED.
4. ALL WATER CURB STOPS TO BE PLACED ON STREETLINE.
5. BOULEVARD TO BE RESTORED WITH 150mm TOPSOIL & SOD.
6. SEE JOINT UTILITY TRENCH STANDARD DRAWING FOR 4 PARTY DETAILS.

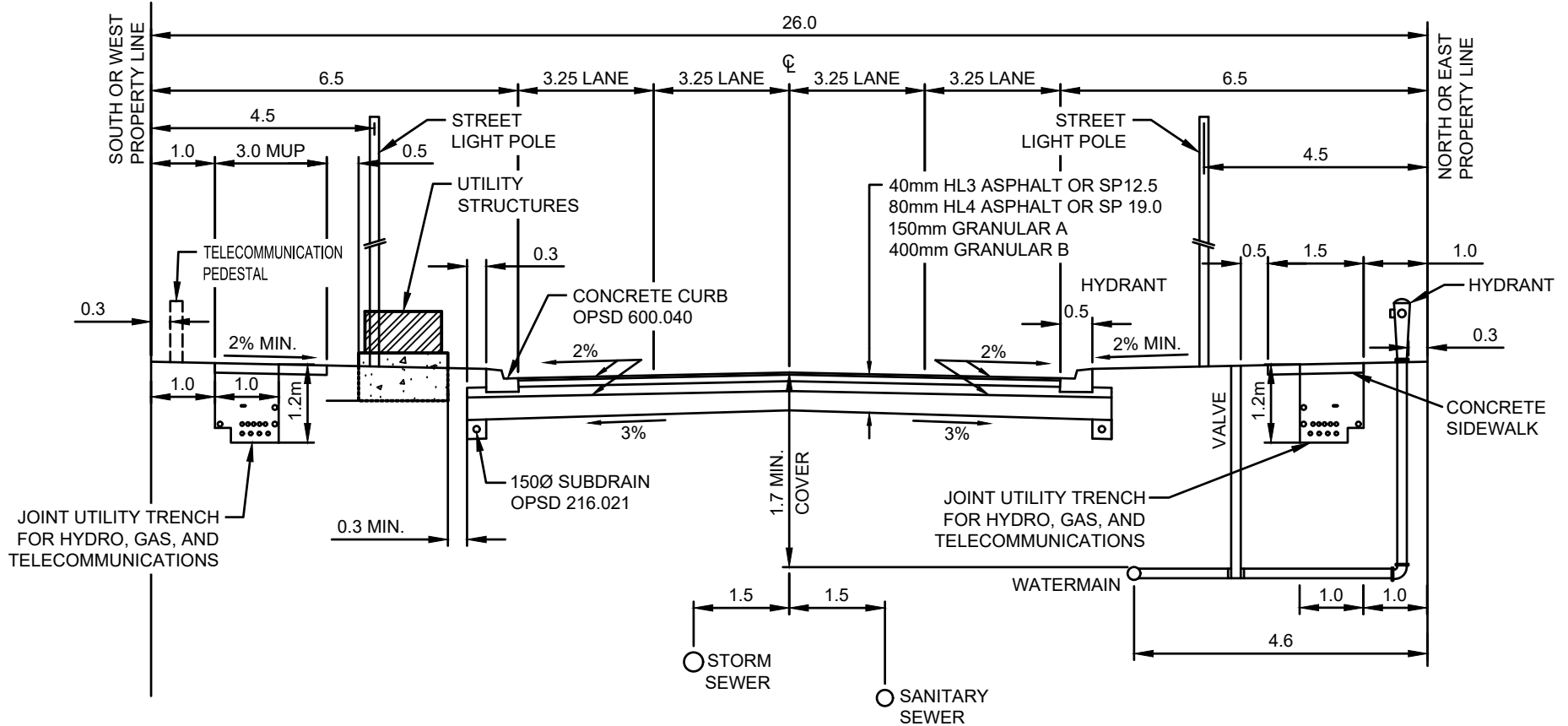


NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

TOWNSHIP OF SEVERN

URBAN RESIDENTIAL ROAD
 26.0m ROAD ALLOWANCE
 13.0m ASPHALT

APR'D:	DATE:	2023
DRAWN:	SCALE:	NTS
STD. No.	204	



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWNSHIP OF SEVERN ENGINEERING CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. ALL SERVICE LOCATIONS SHOWN ARE FOR GUIDELINE PURPOSES ONLY AND MAY DEVIATE AS PER THE DIRECTION OF THE TOWNSHIP WHEN STANDARD LOCATION CANNOT BE ACHIEVED.
4. ALL WATER CURB STOPS TO BE PLACED ON STREETLINE.
5. BOULEVARD TO BE RESTORED WITH 150mm TOPSOIL & SOD.
6. SEE JOINT UTILITY TRENCH STANDARD DRAWING FOR 4 PARTY DETAILS.

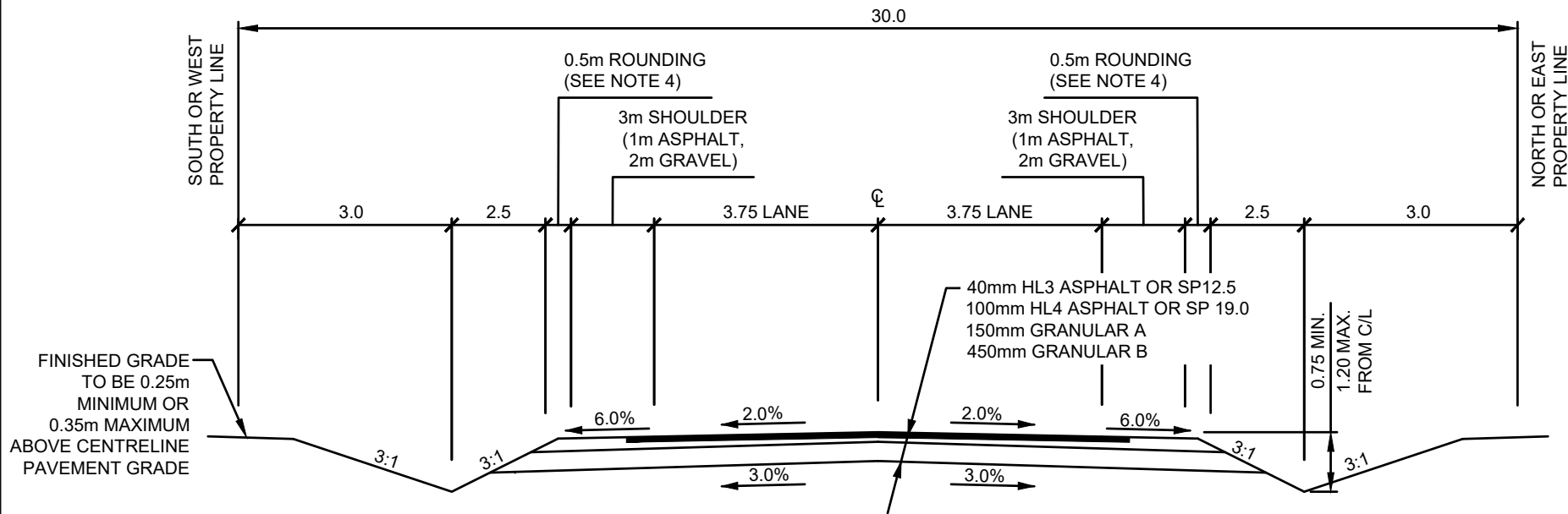


NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

TOWNSHIP OF SEVERN

URBAN COLLECTOR ROAD
 26.0m ROAD ALLOWANCE
 13.0m ASPHALT

APR'D:	DATE:	2023
DRAWN:	SCALE:	NTS
STD. No.	205	



NOTES:

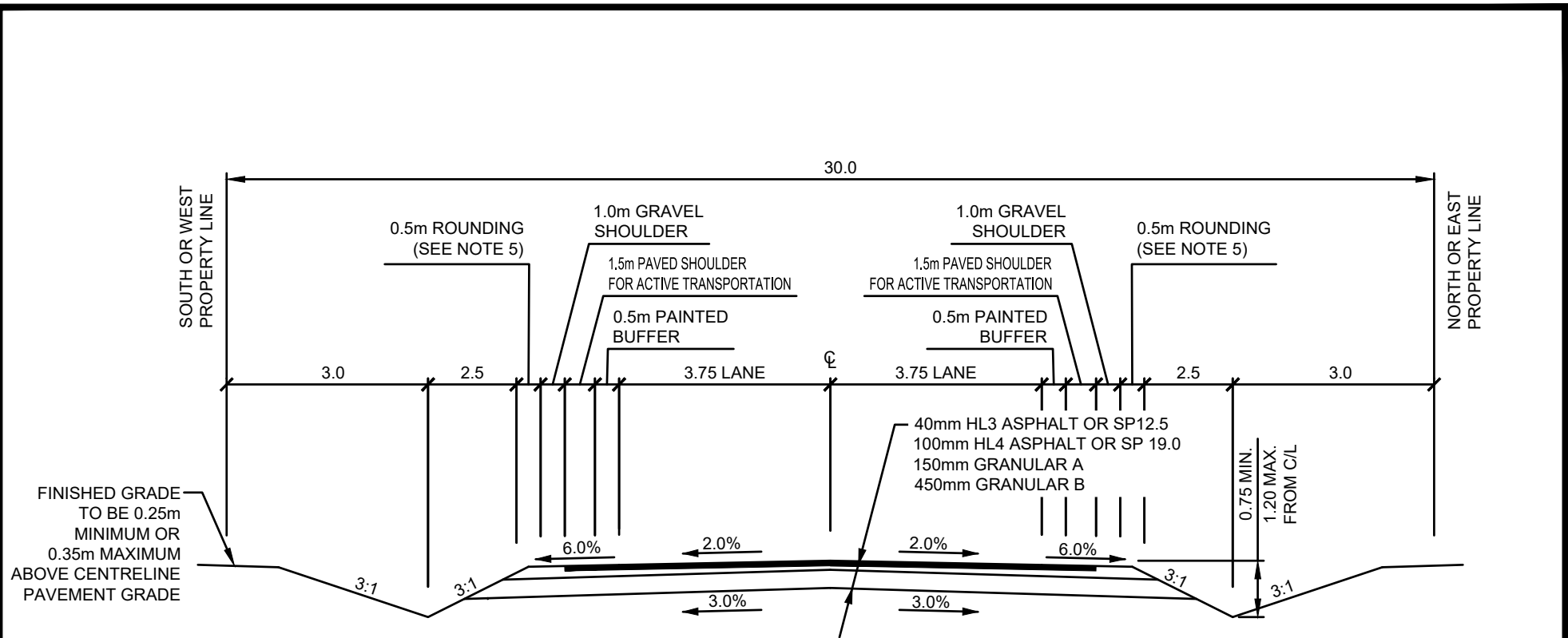
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWNSHIP OF SEVERN ENGINEERING CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. DITCH GRADE TO BE MIN. 0.5%, MAX. 6.0% AND RESTORED WITH 150mm TOPSOIL & SEED (MIX TO BE APPROVED BY TOWNSHIP).
4. WHERE GUIDE RAIL IS REQUIRED THE ROUNDING IS TO BE INCREASED TO 1m.



NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

TOWNSHIP OF SEVERN	
RURAL ARTERIAL ROAD (OPEN DITCH) 30.0m ROAD ALLOWANCE 2-LANE WITHOUT ACTIVE TRANSPORTATION INCLUDED	

APR'D:	DATE: 2023
DRAWN:	SCALE: NTS
STD. No.	206



NOTES:

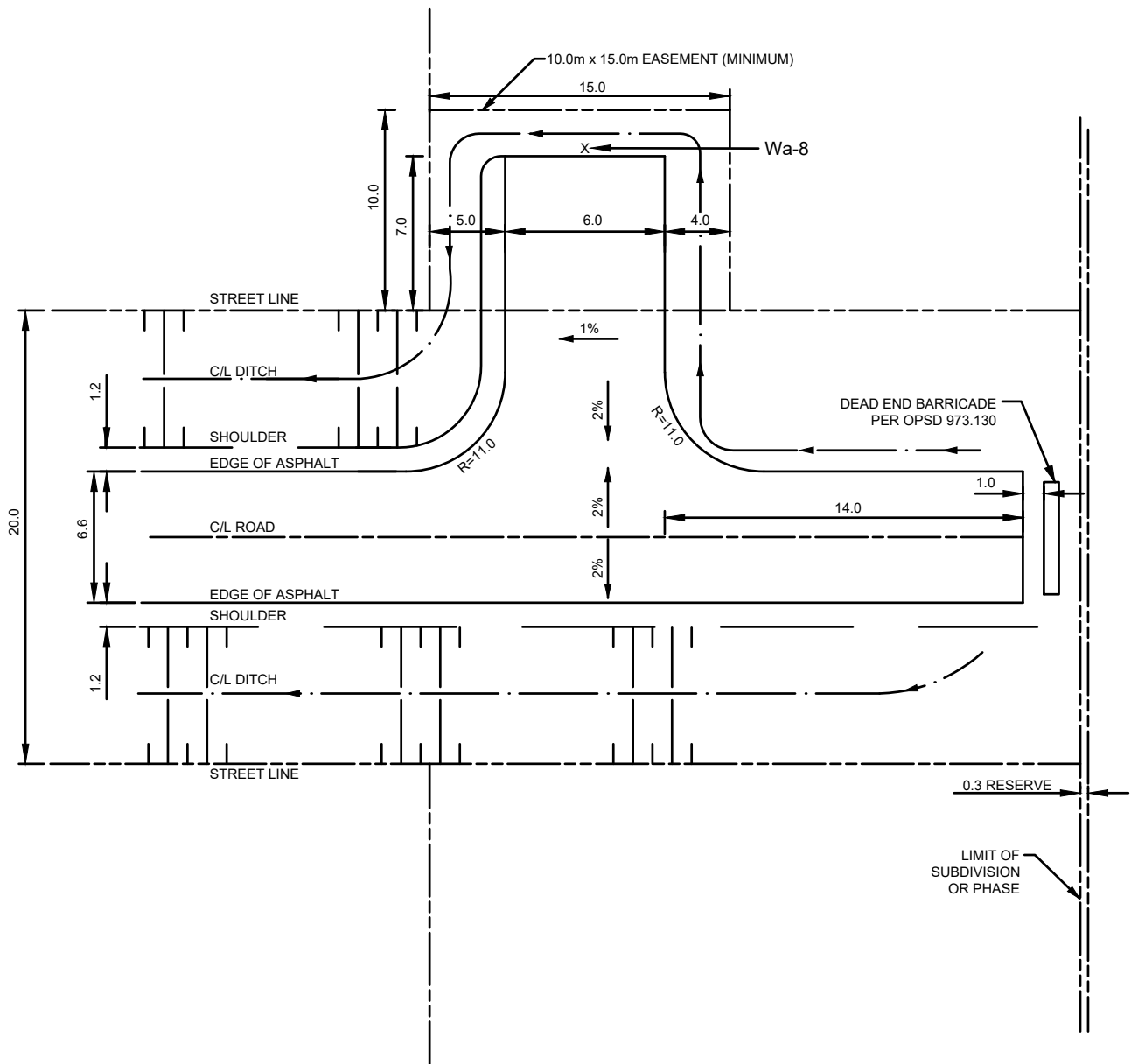
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWNSHIP OF SEVERN ENGINEERING CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. DITCH GRADE TO BE MIN. 0.5%, MAX. 6.0% AND RESTORED WITH 150mm TOPSOIL & SEED (MIX TO BE APPROVED BY TOWNSHIP).
4. SUITABILITY FOR ACTIVE TRANSPORTATION FACILITIES TO BE REVIEWED AS PER OTM BOOK 18 AND CONFIRMED WITH TOWNSHIP.
5. WHERE GUIDE RAIL IS REQUIRED THE ROUNDING IS TO BE INCREASED TO 1m.



NO.	REVISION	APR'D	DATE
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TOWNSHIP OF SEVERN
RURAL ARTERIAL ROAD (OPEN DITCH) 30.0m ROAD ALLOWANCE 2-LANE WITH ACTIVE TRANSPORTATION INCLUDED

APR'D:	DATE:	2023
DRAWN:	SCALE:	NTS
STD. No.	207	



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. NO PARKING SIGNS TO BE INSTALLED IN AREA OF TEMPORARY TURNAROUND.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23

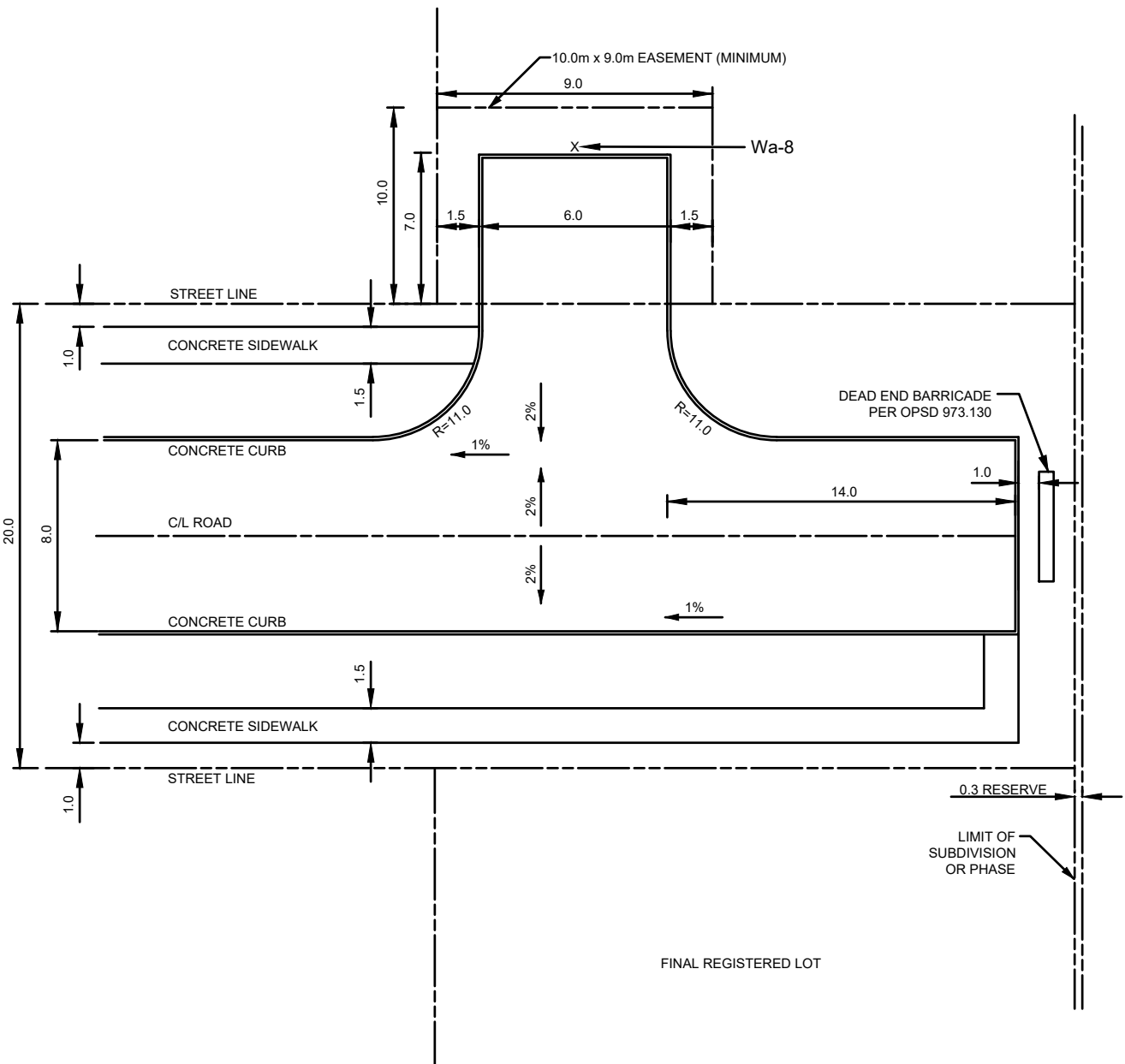


TOWNSHIP OF SEVERN

TEMPORARY TURNAROUND
RESIDENTIAL (RURAL)

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No. 208



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. GUTTER TO BE DETAILED ON ENGINEERING DRAWINGS. MINIMUM GRADE TO BE 1%.
3. THE LOCATION OF SIDEWALK TO BE DETAILED ON THE ENGINEERING DRAWINGS.
4. ALL CURB RADII ARE TO FACE OF CURBS.
5. NO PARKING SIGNS TO BE INSTALLED IN AREA OF TEMPORARY TURNAROUND.

NO.	REVISION	APR'D	DATE
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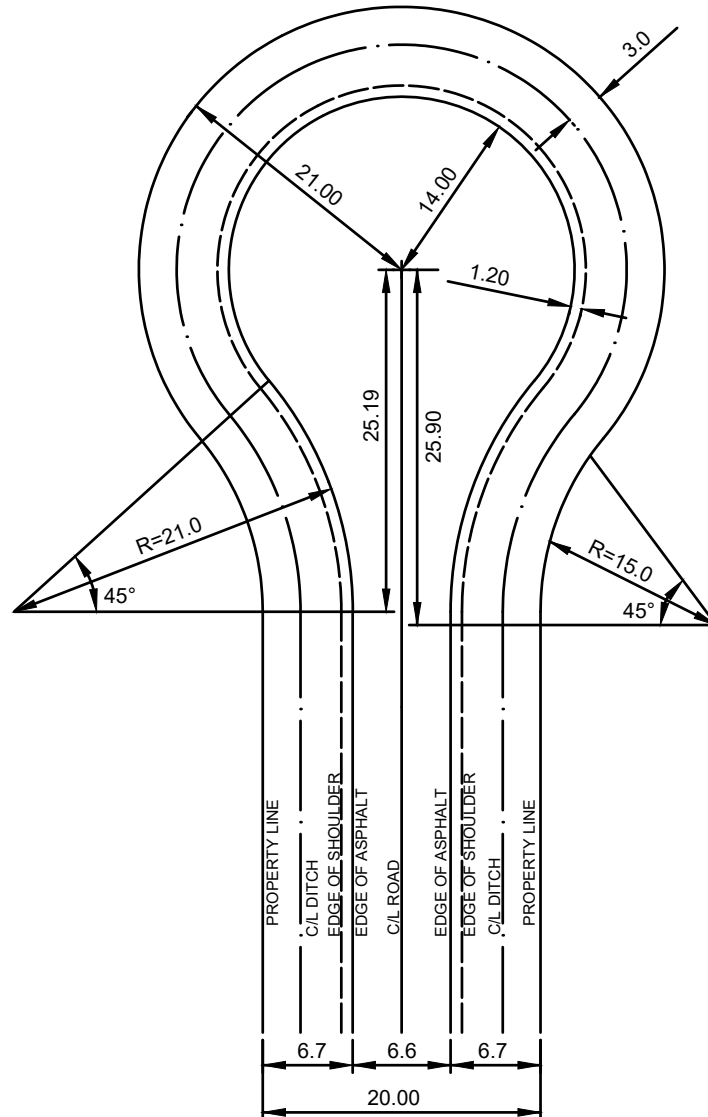
TOWNSHIP OF SEVERN

**TEMPORARY TURNAROUND
RESIDENTIAL (URBAN)**

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

209



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. DETAIL OF GRADING OF BULB AREAS OF CUL-DE-SAC TO BE SHOWN ON PROFILE DRAWINGS.
3. CUL-DE-SAC DRAINAGE TO BE DIRECTED TOWARDS THE BEGINNING OF THE BULB. MINIMUM DITCH GRADE TO BE 2%.
4. DEAD END/NO EXIT SIGNAGE TO BE PROVIDED AT ENTRANCE TO CUL-DE-SAC.
5. CENTRAL ISLANDS ARE NOT PERMITTED.
6. NO PARKING SIGNS TO BE INSTALLED ALONG THE CUL-DE-SAC.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23



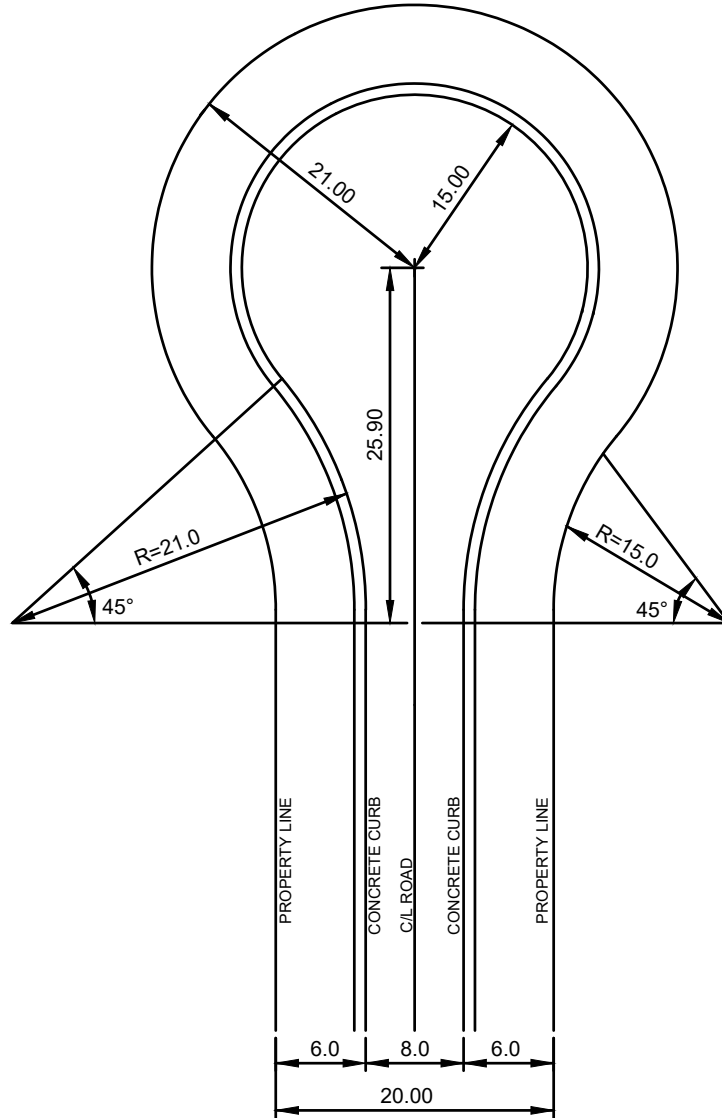
TOWNSHIP OF SEVERN

RESIDENTIAL CUL-DE-SAC (RURAL)
 20.0m ROAD ALLOWANCE
 6.6m ASPHALT

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

210



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. DETAIL OF GRADING OF BULB AREAS OF CUL-DE-SAC TO BE SHOWN ON PROFILE DRAWINGS.
3. CUL-DE-SAC DRAINAGE TO BE DIRECTED TOWARDS THE BEGINNING OF THE BULB.
4. DEAD END/NO EXIT SIGNAGE TO BE PROVIDED AT ENTRANCE TO CUL-DE-SAC.
5. CENTRAL ISLANDS ARE NOT PERMITTED.
6. NO PARKING SIGNS TO BE INSTALLED ALONG THE CUL-DE-SAC.

NO.	REVISION	APR'D	DATE
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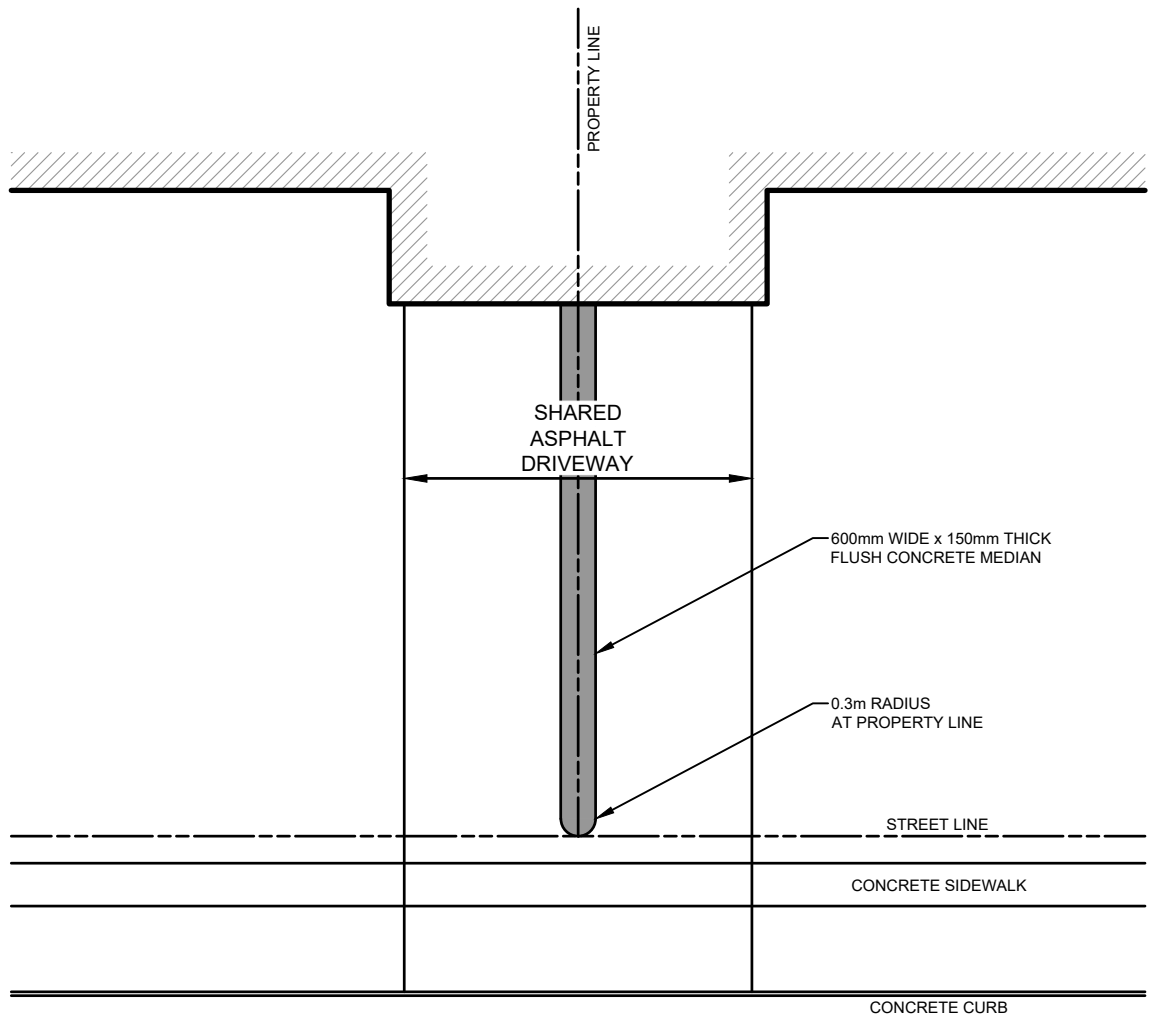
TOWNSHIP OF SEVERN

RESIDENTIAL CUL-DE-SAC (URBAN)
 20.0m ROAD ALLOWANCE
 8.0m ASPHALT

APR'D:	DATE: 2023
DRAWN:	SCALE: NTS

STD. No.

211



NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



TOWNSHIP OF SEVERN

SHARED DRIVEWAY DELINEATION

APR'D:

DRAWN:

STD. No.

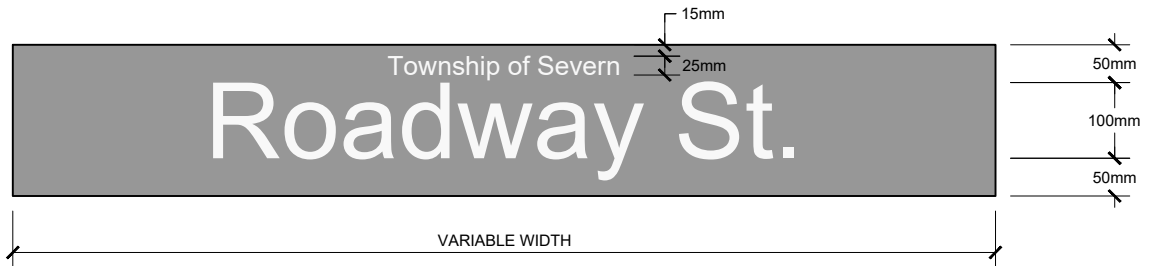
DATE:

SCALE:

212

2023


NTS

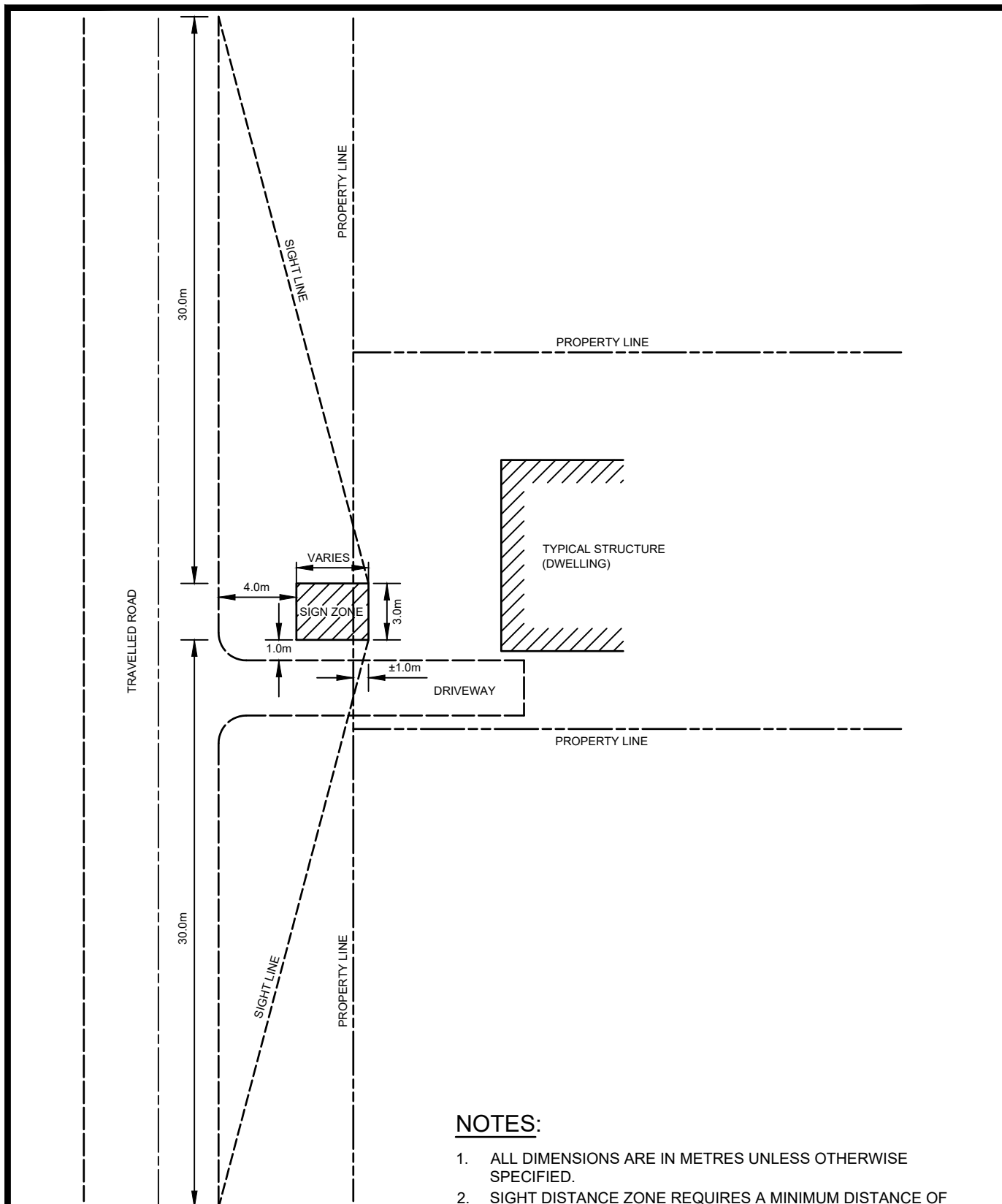


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. "TOWNSHIP OF SEVERN" IS TO BE INCLUDED AT THE TOP OF THE SIGN.
3. BACKGROUND TO BE GREEN, TYPE I RETROREFLECTIVITY.
4. TEXT TO BE WHITE, TYPE I RETROREFLECTIVITY USING FHWA (HIGHWAY GOTHIC) FONT.
5. SIGNS ARE TO BE EXTRUDED ALUMINUM WITH 2.3mm THICKNESS.
6. STREET NAME TO APPEAR ON BOTH SIDES OF THE SIGN.
7. SIGN TO BE LOCATED IN ACCORDANCE WITH OTM AND AS APPROVED BY THE TOWNSHIP.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

 — Township of — SEVERN	TOWNSHIP OF SEVERN	APR'D:	DATE: 2023
	STREET NAME SIGN (G216)	DRAWN:	SCALE: NTS
		STD. No.	213



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. SIGHT DISTANCE ZONE REQUIRES A MINIMUM DISTANCE OF 30m (100ft) EACH DIRECTION FROM SIGN INSTALLATION.
3. SIGN ZONE LOCATION PREFERRED TO BE CENTRAL TO FRONT OF HOUSE IE. LEFT OR RIGHT OF DRIVEWAYS.
4. IF SIDEWALK EXISTING, THEN OFFSET ± 1.0m

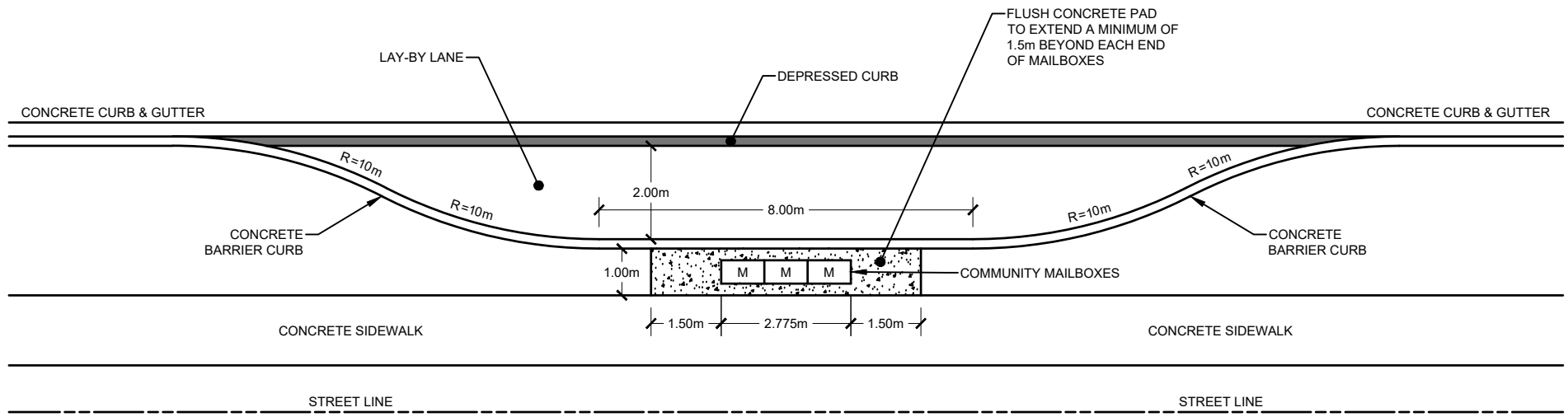
NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23



TOWNSHIP OF SEVERN

MUNICIPAL ADDRESS NUMBER
SIGN LOCATION (RURAL)

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS
STD. No.	214

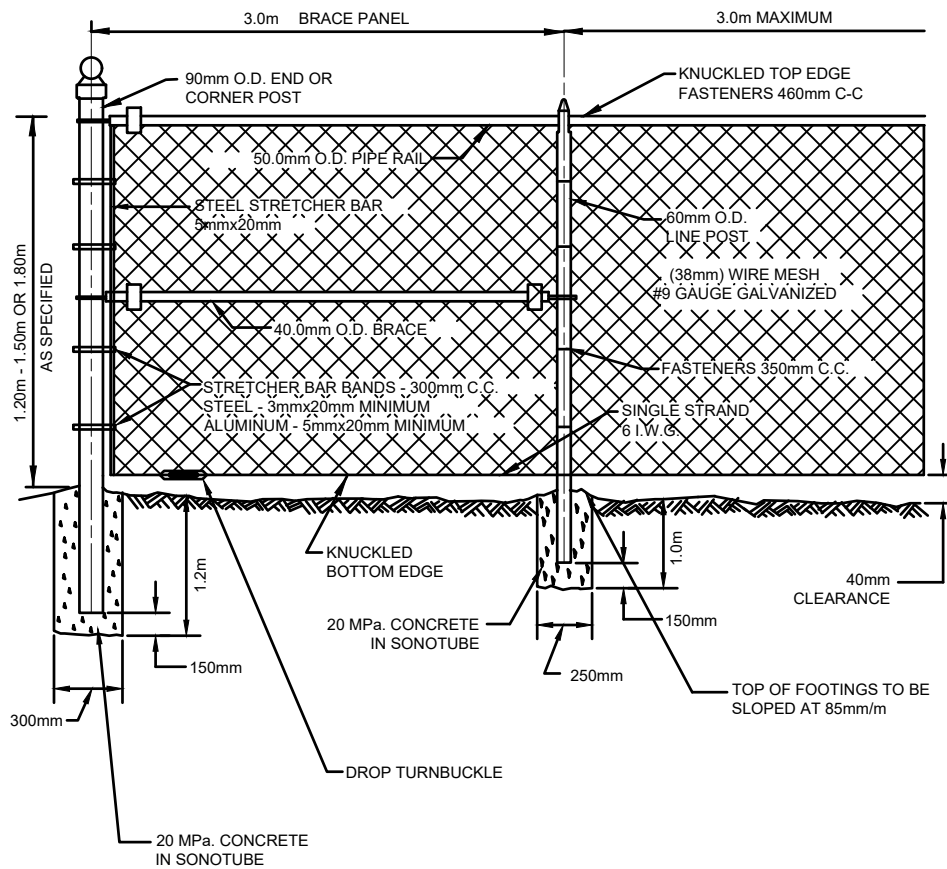


NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

TOWNSHIP OF SEVERN

URBAN COMMUNITY MAILBOX LAY-BY

APR'D:	DATE:	2023
DRAWN:	SCALE:	NTS
STD. No.	215	



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SPECIFIED.
2. LENGTH OF POSTS

FENCE POST LOCATION	1.20 m FENCE	1.50 m FENCE	1.80 m FENCE
END, CORNER OR RESTRAINING	2.30 m	2.60 m	2.90 m
LINE POST	2.05 m	2.36 m	2.65 m

3. FASTENERS - 6 I.W.G. GALVANIZED STEEL OR ALUMINUM WIRE.
4. ALL POSTS, PIPE RAILS AND FASTENERS TO BE GALVANIZED.
5. BRACE RAILS TO BE ELIMINATED ON 1.20 m HIGH FENCE.
6. FENCE FABRIC SHALL BE TYPE 1 STEEL FABRIC 3.0 mm DIA. STEEL WIRE, STYLE 3 LIGHT STEEL WIRE, GALVANIZED BEFORE WEAVING.
7. FENCING REQUIREMENTS FOR PUBLIC WALKWAYS ARE TO BE RANGE FROM 1.2 m TO 1.8 m. A FENCE HEIGHT OF 1.2 m IS TO BE SPECIFIED BETWEEN STREET LINE AND THE FRONT OF THE DWELLING. FENCING HEIGHTS BEYOND THE FRONT OF THE DWELLING ARE TO 1.8 m.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



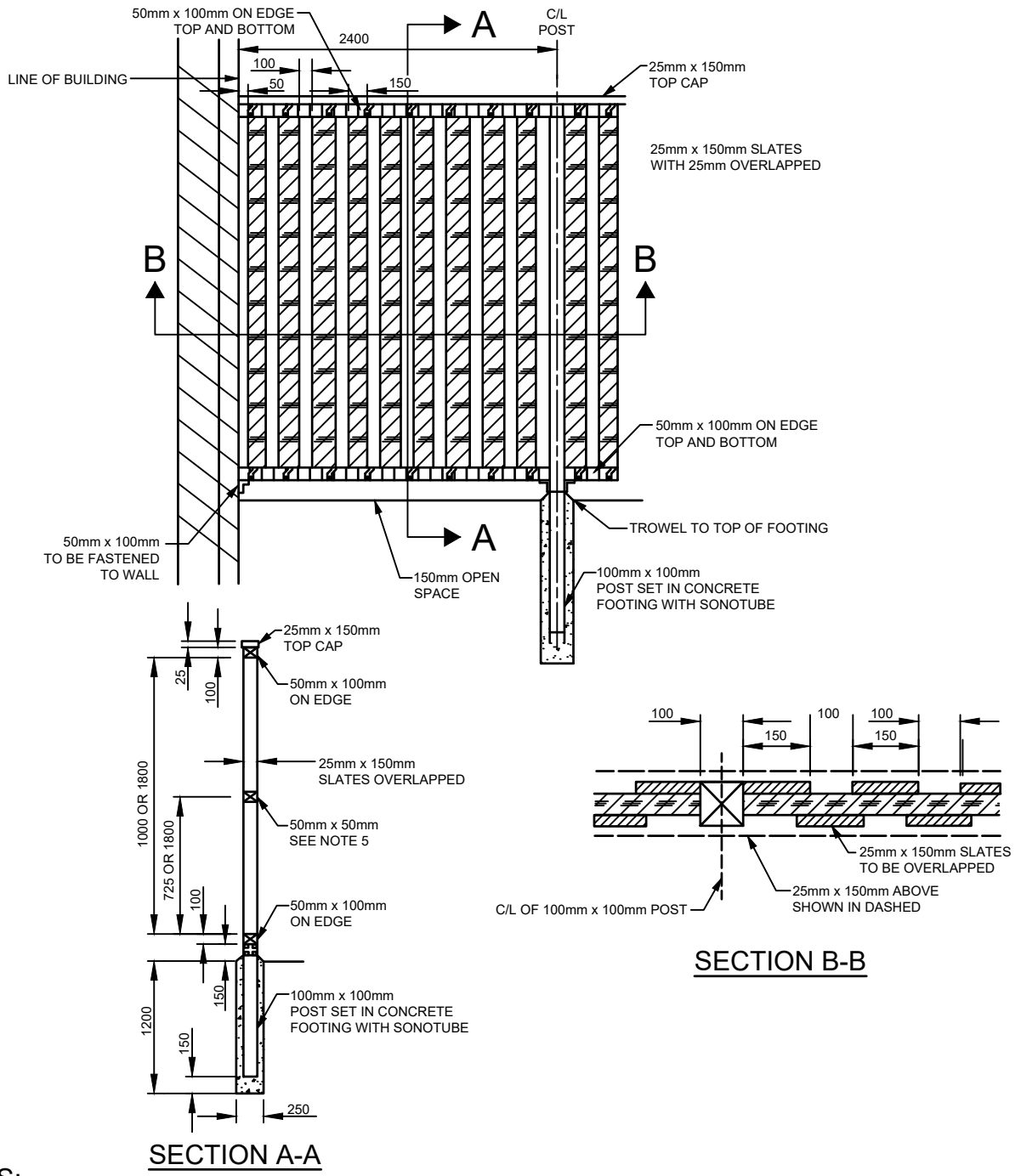
TOWNSHIP OF SEVERN

CHAIN LINK SECURITY FENCE

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

301

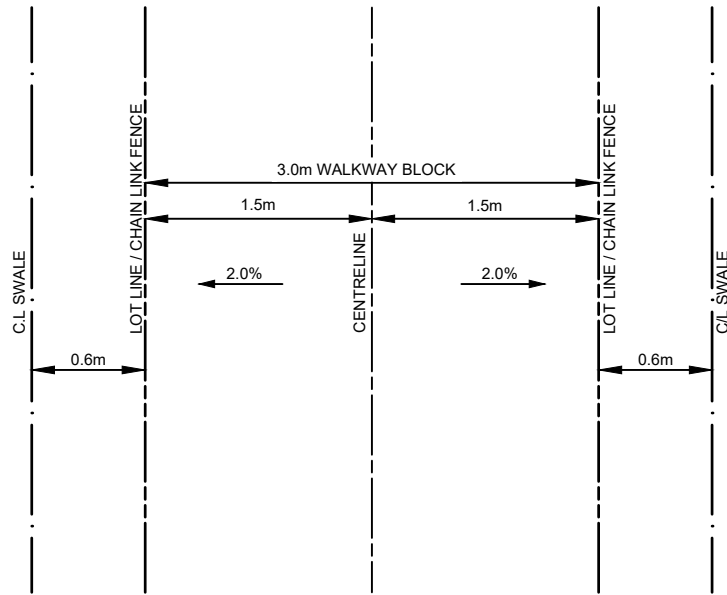


NOTES:

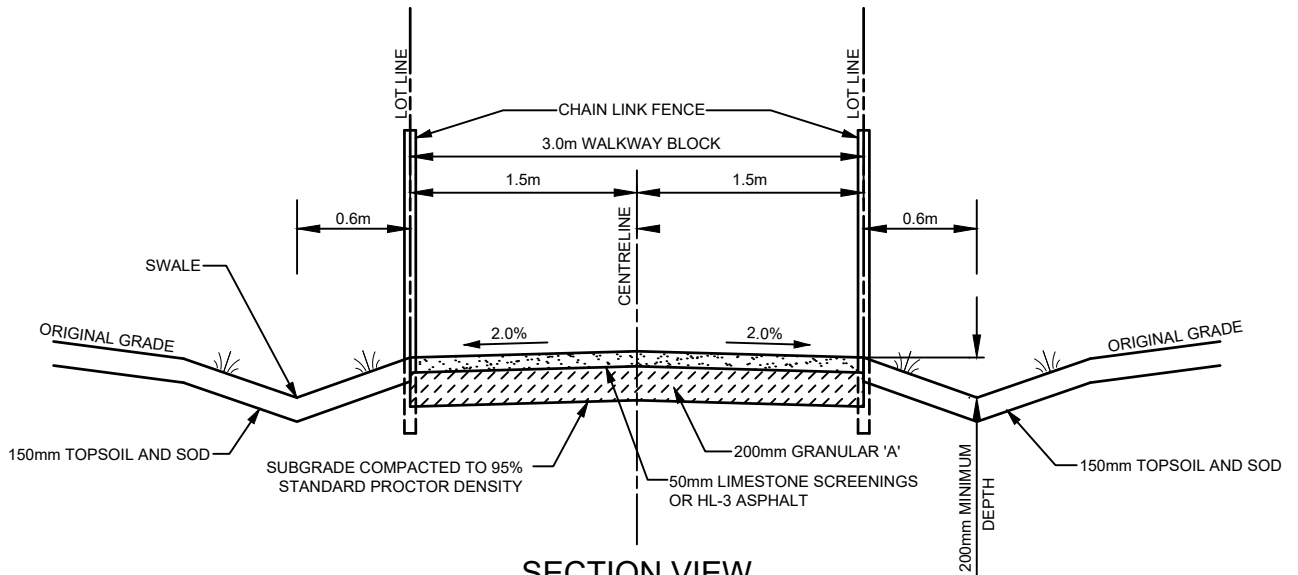
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. USE CONSTRUCTION GRADE CEDAR OR PRESSURE TREATED. DO NOT USE SPRUCE OR HEMLOCK.
3. USE APPROVED WOOD STAIN.
4. USE STEEL ZINC COATED TWISTED NAILS No. 11 GAUGE 64 mm x 76 mm.
5. FOR FENCE 1.8 m OR HIGHER 50 mm x 50 mm MUST BE USED AS SHOWN IN SECTION A-A.
6. USE GALVANIZED FENCE BRACKETS.
7. FOR WALKWAYS, THE FENCE HEIGHT SHOULD BE 1.2m HIGH BETWEEN STREETLINE AND FRONT WALL OF DWELLINGS ON ADJACENT LOTS AND 1.8 m FOR THE REMAINDER.

NO.	REVISION	APR'D	DATE
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 <p>— Township of — SEVERN</p>	<h2>TOWNSHIP OF SEVERN</h2> <h3>WOOD PRIVACY FENCE</h3>	APR'D:	DATE: 2012
		DRAWN:	SCALE: NTS
		STD. No.	302



PLAN VIEW



SECTION VIEW

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. ALL GRANULAR MATERIALS TO BE COMPACTED TO 100% STANDARD PROCTOR DENSITY. REQUIRED SURFACE TREATMENT TO BE CONFIRMED WITH THE TOWNSHIP.
3. PROPOSED LONGITUDINAL GRADE OF WALKWAY TO BE IDENTIFIED ON ENGINEERING DRAWINGS. MINIMUM LONGITUDINAL GRADE TO BE 1.5%.
4. PROVIDE POSITIVE OUTLET FOR SWALE (i.e. DITCH / STORM SEWER).
5. PROVIDE BOLLARD AT ENTRANCE / EXIT ON PROPERTY LINE.
6. LIGHTING TO BE PROVIDED AT ENTRANCE/EXIT AS REQUIRED BY THE TOWNSHIP.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



TOWNSHIP OF SEVERN

PEDESTRIAN WALKWAY

APR'D:

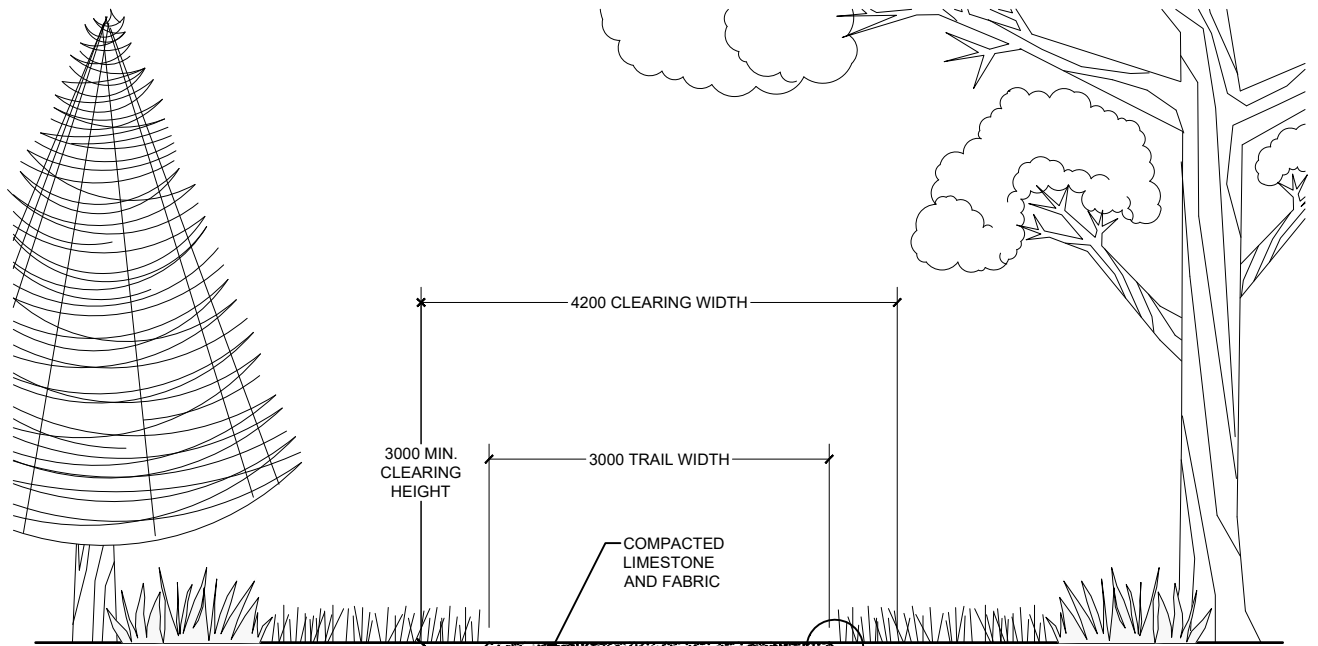
DATE: 2012

DRAWN:

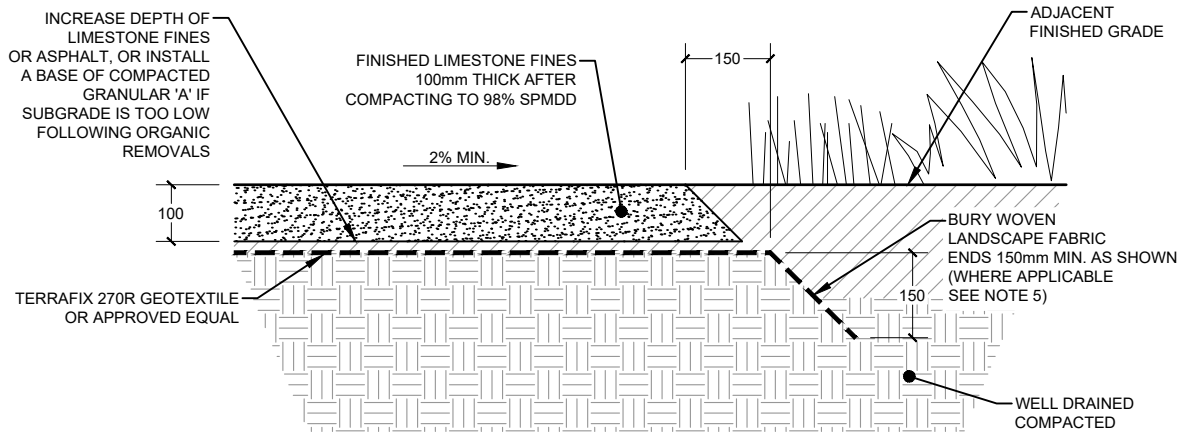
SCALE: NTS

STD. No.

303



TRAIL SECTION



TRAIL DETAIL

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. EXCAVATE ALL TOPSOIL AND ORGANIC MATTER UNDER TRAIL BED.
3. STANDARD DETAIL REFLECTS IDEAL SUBGRADE CONDITIONS ON COMPACTED, WELL DRAINED SOIL. ADDITIONAL GRANULAR MATERIAL MAY BE REQUIRED TO SUIT CONDITIONS.
4. THE 270R GEOTEXTILE IS TO BE USED UNDER IDEAL AND DRY SOIL CONDITIONS. GEOTEXTILE REQUIREMENTS MAY BE UPGRADED TO SUIT SOIL CONDITIONS AND MAY REQUIRE THE USE OF GEO-GRIDS OR WOVEN FABRICS.
5. GEOTEXTILE TO BE FOLDED AND BURIED INTO SUBGRADE 150mm AS SHOWN FOR NEW DEVELOPMENT. WHERE TRAIL IS CONSTRUCTED THROUGH UNDISTURBED LANDSCAPE, THE GEOTEXTILE CAN REMAIN FLUSH WITH THE SUBGRADE SURFACE IF BURYING WOULD CAUSE UNNECESSARY DISTURBANCE TO EXISTING VEGETATION.
6. DIRECTION OF CROSS SLOPE TO BE ADJUSTED TO SUIT GRADING REQUIREMENTS.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



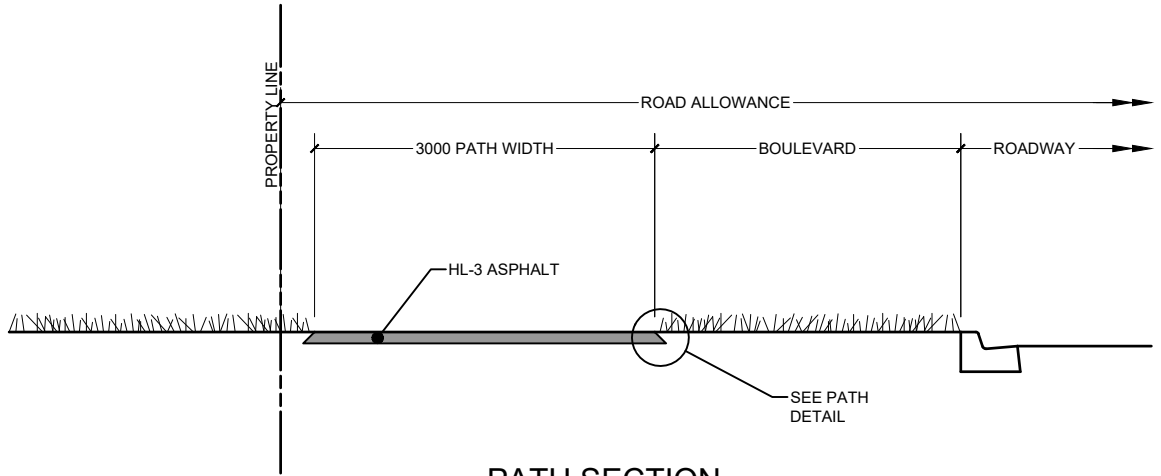
TOWNSHIP OF SEVERN

**MULTI-USE RECREATION TRAIL
THROUGH NATURALIZED AREA**

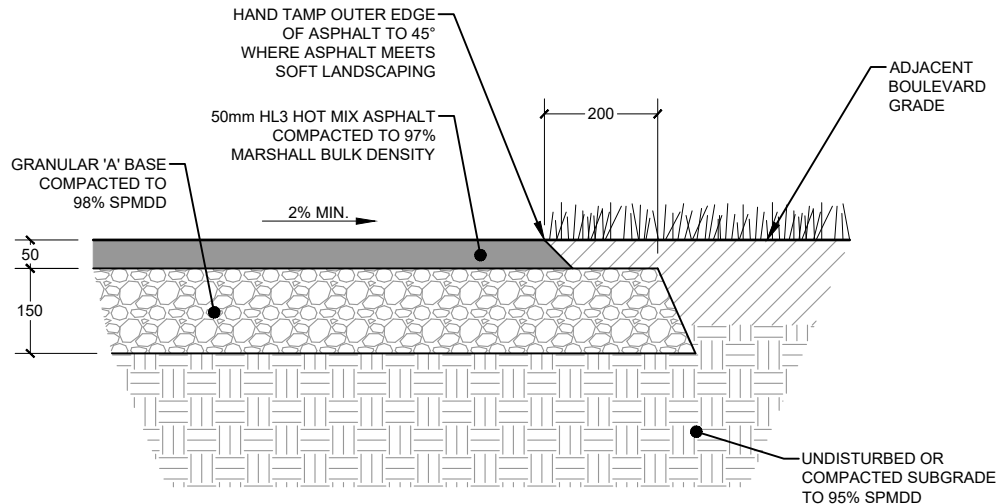
APR'D:	DATE: 2023
DRAWN:	SCALE: NTS

STD. No.

304



PATH SECTION



PATH DETAIL

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. EXCAVATE ALL TOPSOIL AND ORGANIC MATTER UNDER TRAIL BED.
3. STANDARD DETAIL REFLECTS IDEAL SUBGRADE CONDITIONS ON COMPACTED, WELL DRAINED SOIL. ADDITIONAL GRANULAR MATERIAL MAY BE REQUIRED TO SUIT CONDITIONS.
4. DIRECTION OF CROSS SLOPE TO BE ADJUSTED TO SUIT GRADING REQUIREMENTS.
5. ALL GRANULAR WORK TO BE IN ACCORDANCE WITH OPSS 314.
6. ALL HOT MIX ASPHALT WORK TO BE IN ACCORDANCE WITH OPSS 311.
7. ROLL ASPHALT CONTINUOUSLY TO DENSITY NOT LESS THAN 97% MARSHALL BULK DENSITY.
8. DO NOT BACKFILL AGAINST ASPHALT FOR MIN. 48 HOURS.

NO.	REVISION	APR'D	DATE
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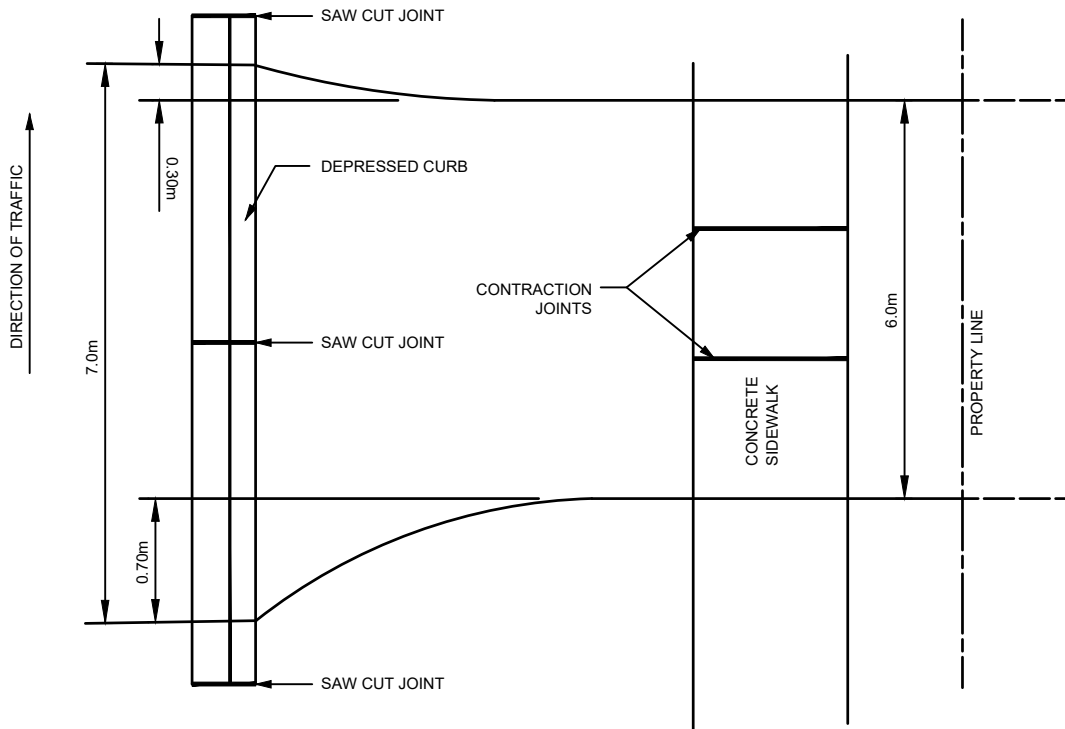


TOWNSHIP OF SEVERN

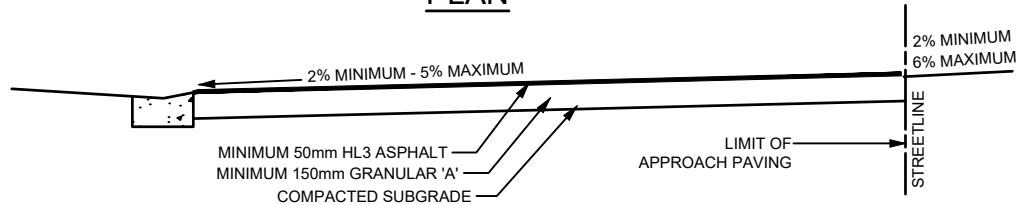
**MULTI-USE PATH
WITHIN ROAD ALLOWANCE**

APR'D:	DATE: 2023
DRAWN:	SCALE: NTS

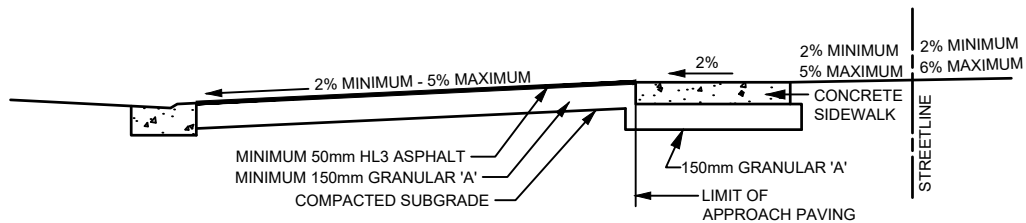
STD. No. 305



PLAN



**TYPICAL SECTION
ON STREETS WITHOUT SIDEWALKS**



**TYPICAL SECTION
ON STREETS WITH SIDEWALKS**

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SPECIFIED.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23



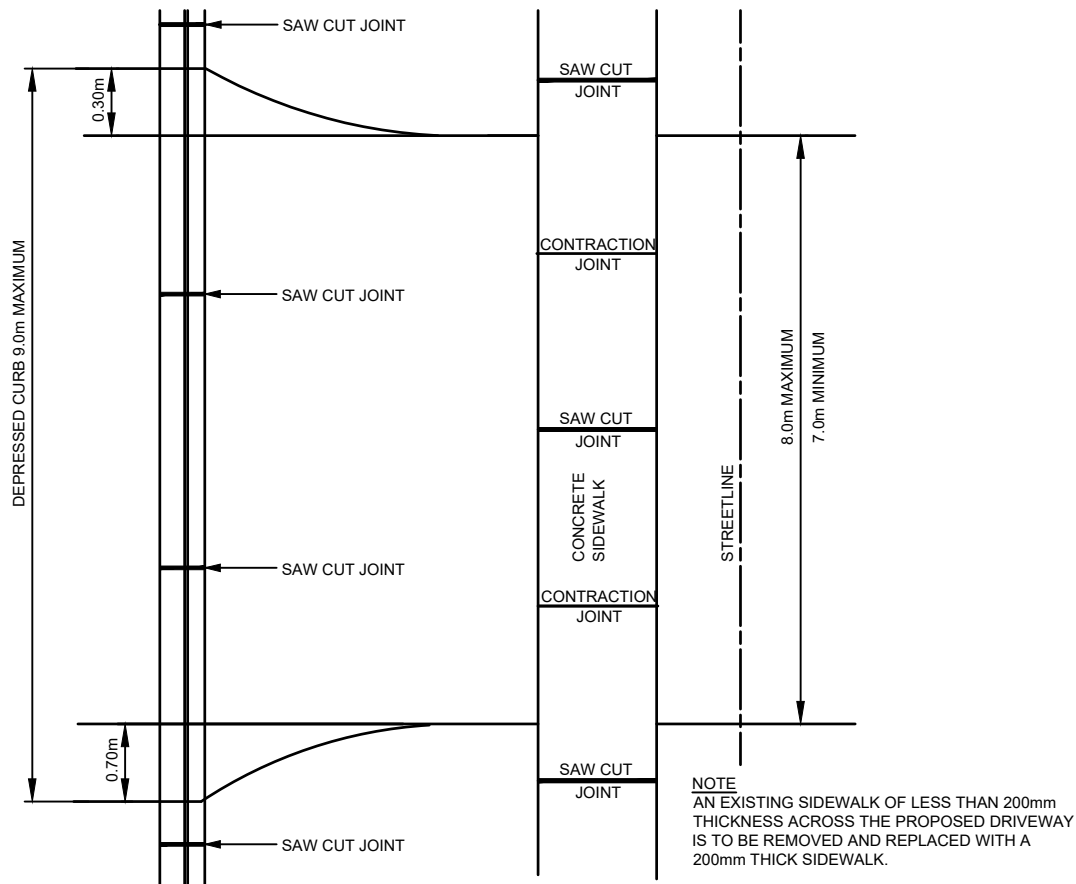
TOWNSHIP OF SEVERN

**DRIVEWAY APPROACH PAVING
FOR RESIDENTIAL DRIVEWAYS**

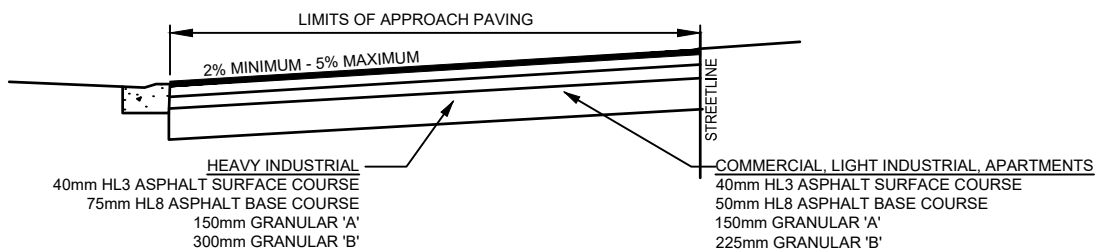
APR'D: _____ DATE: 2012
DRAWN: _____ SCALE: NTS

STD. No.

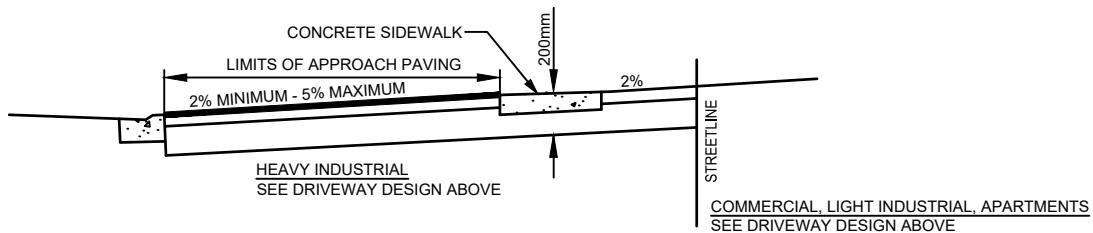
306



PLAN



SECTION ON STREETS WITHOUT SIDEWALK



SECTION ON STREETS WITH SIDEWALK

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SPECIFIED.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23



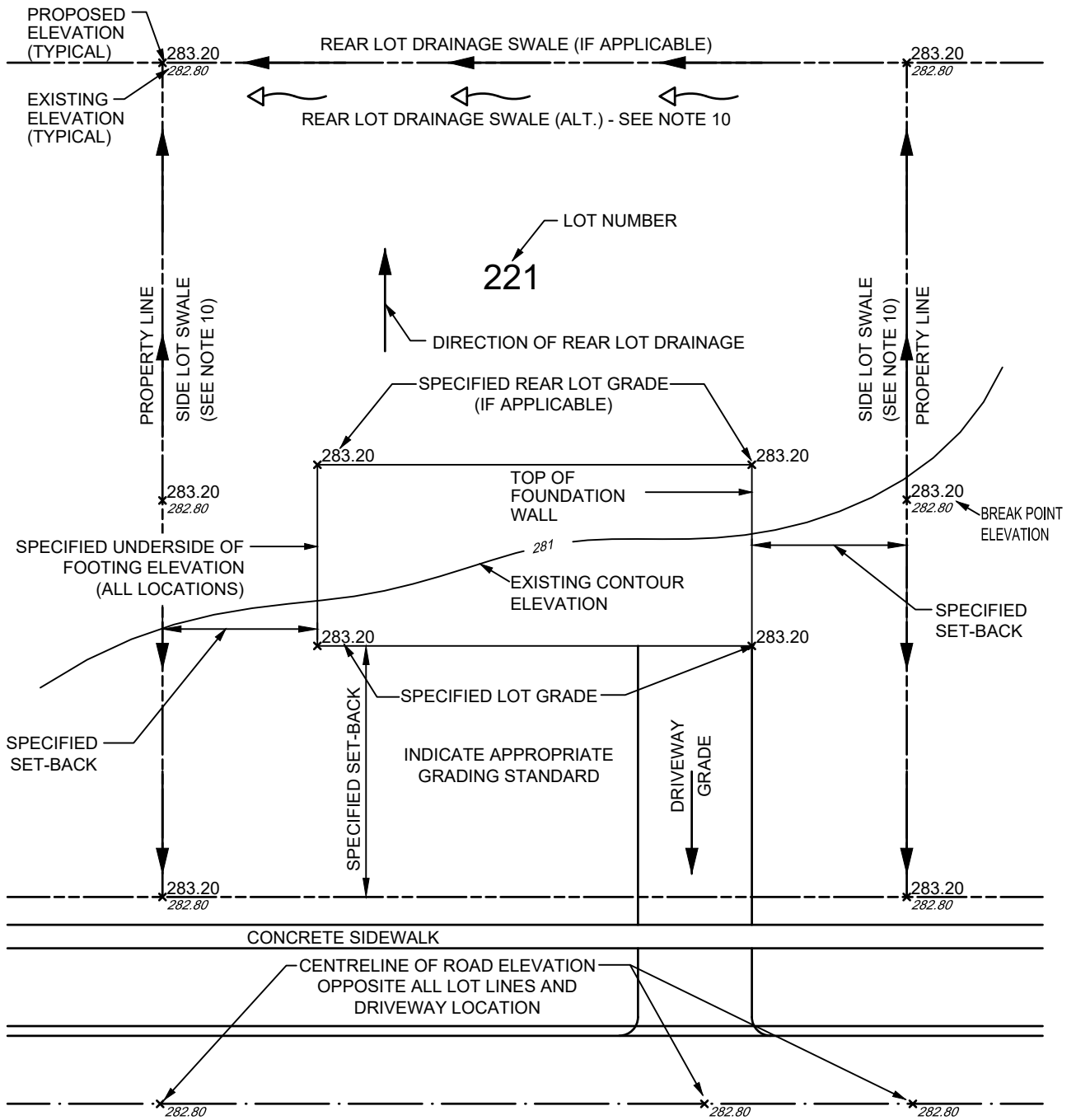
TOWNSHIP OF SEVERN

DRIVEWAY APPROACH PAVING
COMMERCIAL, INDUSTRIAL AND APARTMENTS

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

307



NOTES:

1. ALL CATCHBASIN LOCATIONS MUST BE SHOWN ON GRADING PLAN.
2. ALL EASEMENTS MUST BE SHOWN ON GRADING PLAN.
3. PROVIDE MAIN FLOOR AND BASEMENT ELEVATIONS.
4. SPECIFY PROPOSED GRADES ON SWALES.
5. IDENTIFY PROPOSED LOCATION AND DIMENSION OF SEPTIC TILE BED AND RESERVE BED AREA (WHERE REQUIRED).
6. PROVIDE REGISTERED PLAN NUMBER.
7. MAXIMUM DRIVEWAY GRADE TO BE 5%.
8. SHOW SERVICE LATERAL INVERT ELEVATION AT STREET LINE AND CURB STOP LOCATION (WHEN APPLICABLE)
9. SHOW ALL ABOVEGROUND FEATURES AND UTILITY INSTALLATIONS IN BOULEVARD.
10. DRAINAGE SWALES TO BE ON PROPERTY LINE. SET SWALE ENTIRELY WITHIN LOT IF ABUTTING PROPERTY NOT UNDERGOING DEVELOPMENT.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



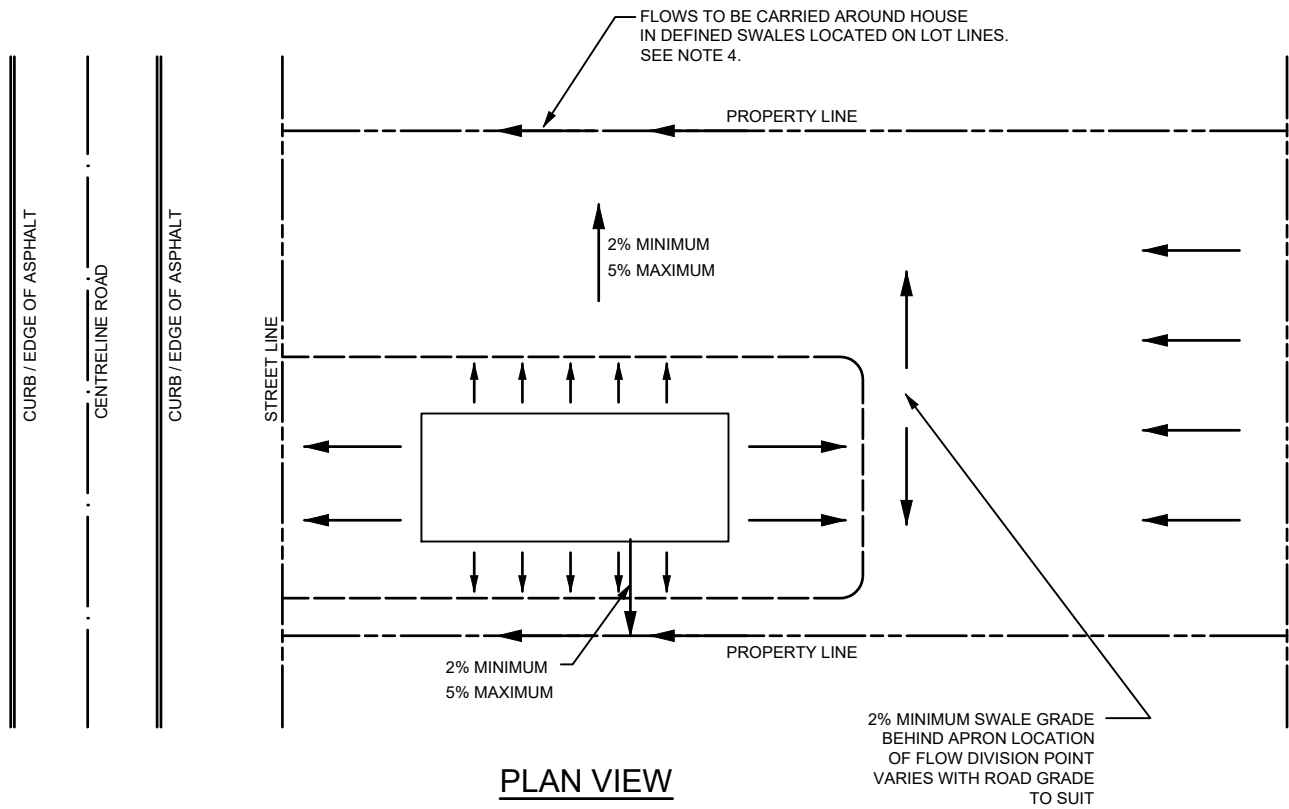
TOWNSHIP OF SEVERN

TYPICAL LEGEND FOR LOT GRADING PLAN

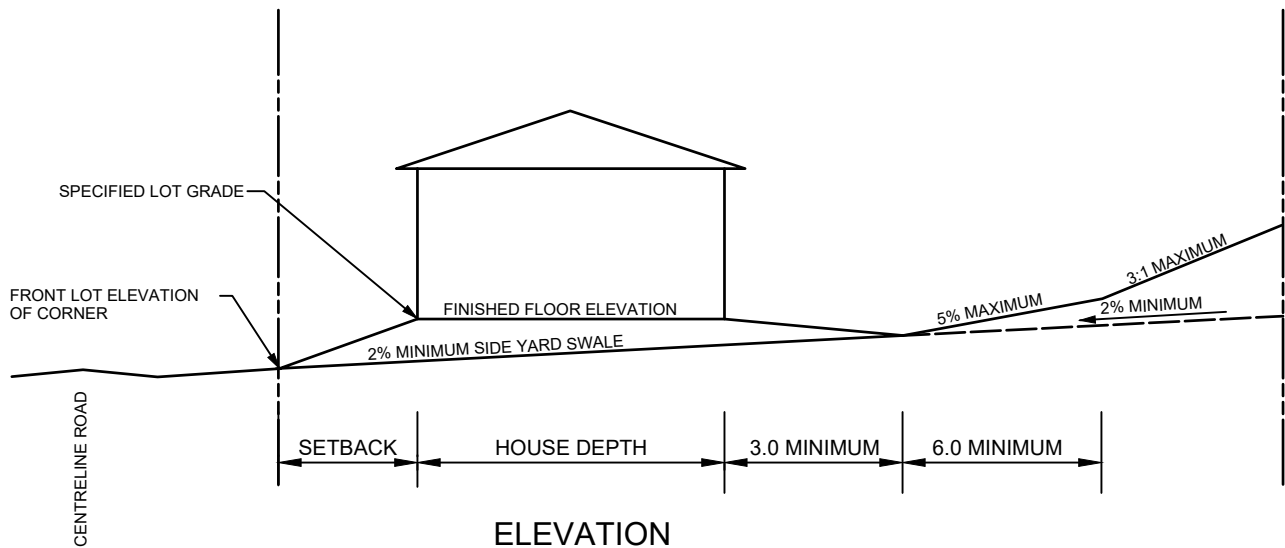
APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS

STD. No.

401



PLAN VIEW



ELEVATION

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. SPECIFIED LOT GRADE SHALL BE MINIMUM 0.30m ABOVE HIGHEST FRONT LOT CORNER.
3. DRIVEWAYS ARE NOT TO BE USED AS AN OUTLET FOR ANY SIDEYARD SWALE.
4. DRAINAGE SWALES TO BE ON PROPERTY LINE. SET SWALE ENTIRELY WITHIN LOT IF ABUTTING PROPERTY NOT UNDERGOING DEVELOPMENT.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



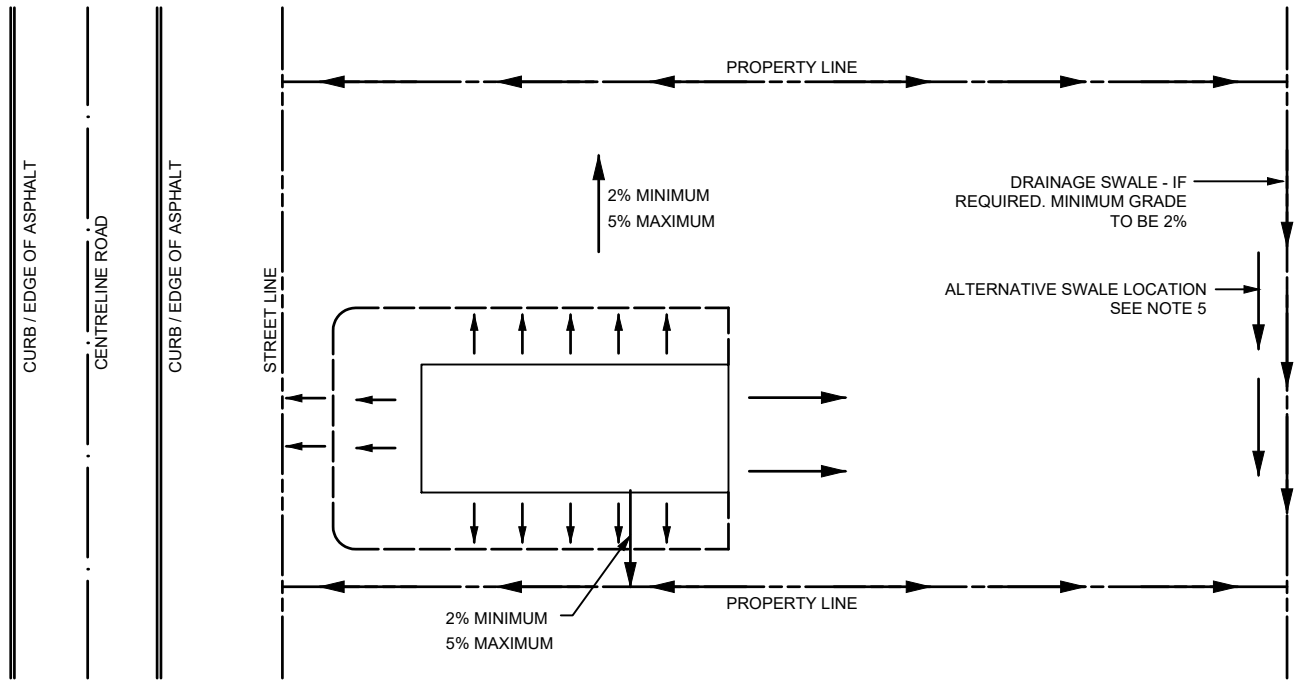
TOWNSHIP OF SEVERN

FRONT LOT DRAINAGE

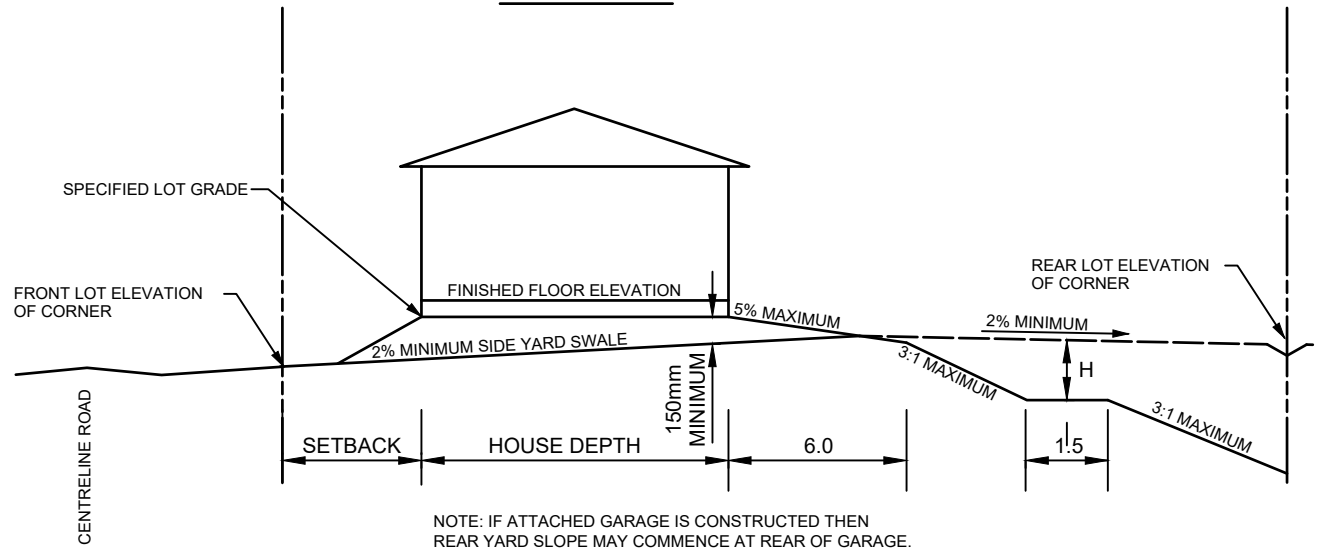
APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS

STD. No.

402



PLAN VIEW



NOTE: IF ATTACHED GARAGE IS CONSTRUCTED THEN REAR YARD SLOPE MAY COMMENCE AT REAR OF GARAGE.

ELEVATION

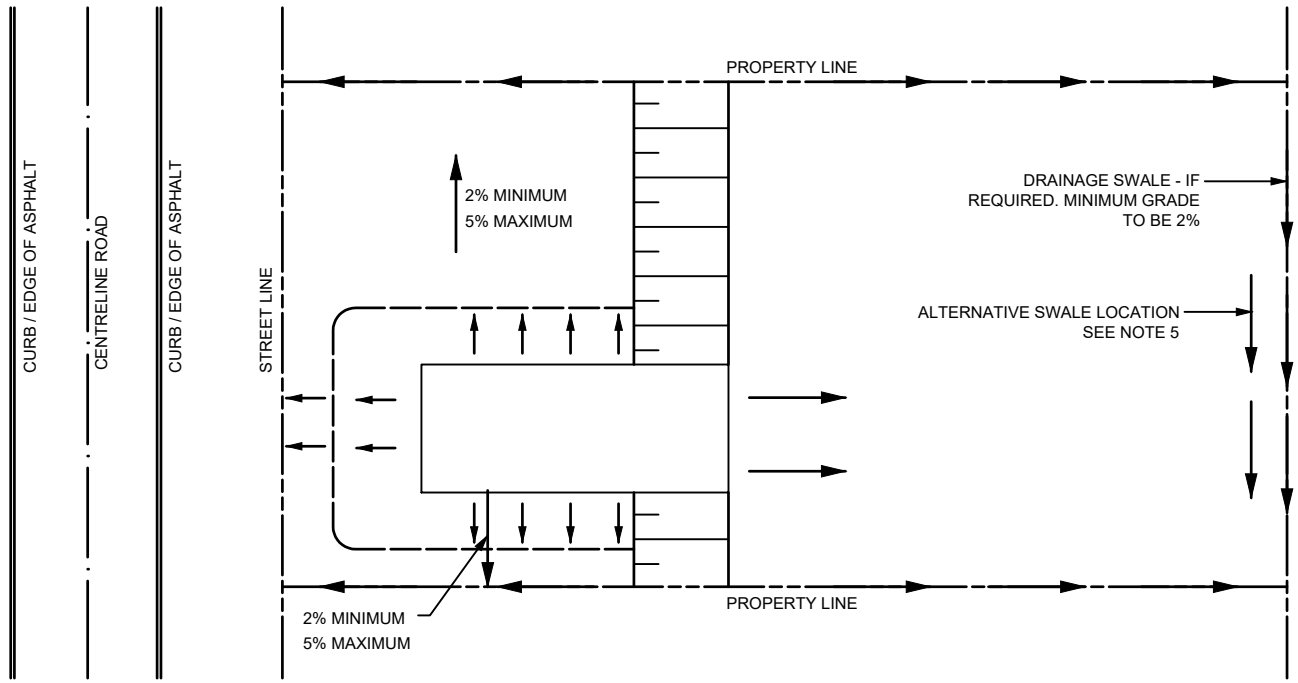
NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. SPECIFIED LOT GRADE SHALL BE MINIMUM 0.30m ABOVE HIGHEST FRONT LOT CORNER.
3. DRIVEWAYS ARE NOT TO BE USED AS AN OUTLET FOR ANY SIDEYARD SWALE.
4. 'H' DIMENSION TO BE 1.8m MAXIMUM, UNLESS UNDISTURBED EXISTING SLOPE. TERRACE CAN BE ELIMINATED ON SLOPES OF 4:1 OR LESS.
5. DRAINAGE SWALES TO BE ON PROPERTY LINE. SET SWALE ENTIRELY WITHIN LOT IF ABUTTING PROPERTY NOT UNDERGOING DEVELOPMENT.

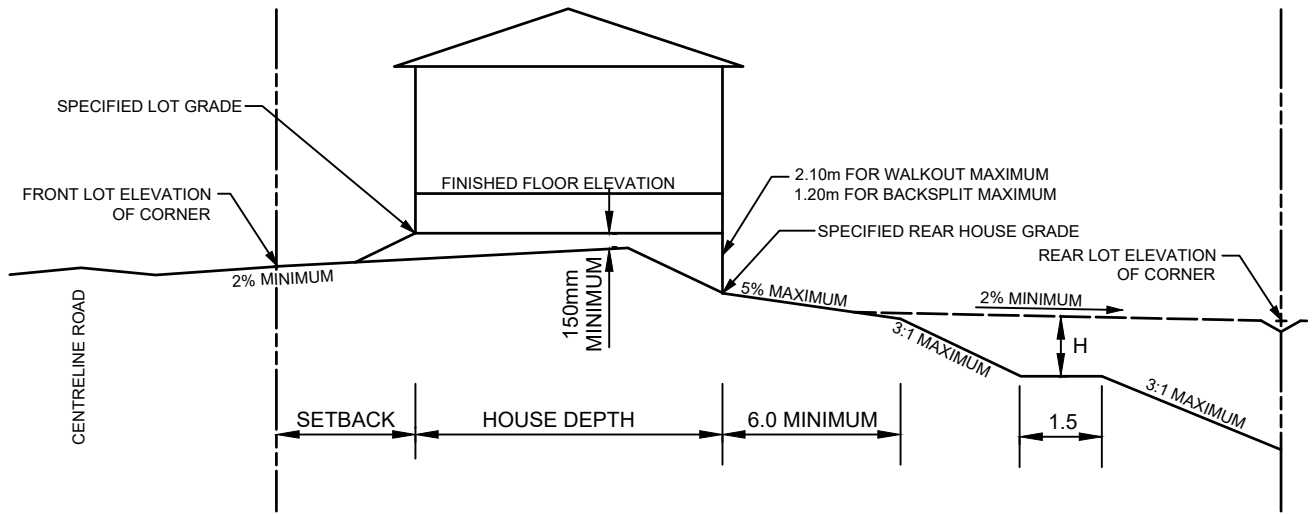
NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



TOWNSHIP OF SEVERN	APR'D:	DATE:	2012
	DRAWN:	SCALE:	NTS
REAR LOT DRAINAGE	STD. No.	403	



PLAN VIEW



ELEVATION

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. SPECIFIED LOT GRADE SHALL BE MINIMUM 0.30m ABOVE HIGHEST FRONT LOT CORNER.
3. 'H' DIMENSION TO BE 1.8m MAXIMUM, UNLESS UNDISTURBED EXISTING SLOPE. TERRACE CAN BE ELIMINATED ON SLOPES OF 4:1 OR LESS.
4. REAR HOUSE GRADE MUST ALSO BE SPECIFIED ON LOT GRADING PLANS WHEN THIS HOUSE TYPE IS PROPOSED.
5. DRAINAGE SWALES TO BE ON PROPERTY LINE. SET SWALE ENTIRELY WITHIN LOT IF ABUTTING PROPERTY NOT UNDERGOING DEVELOPMENT.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



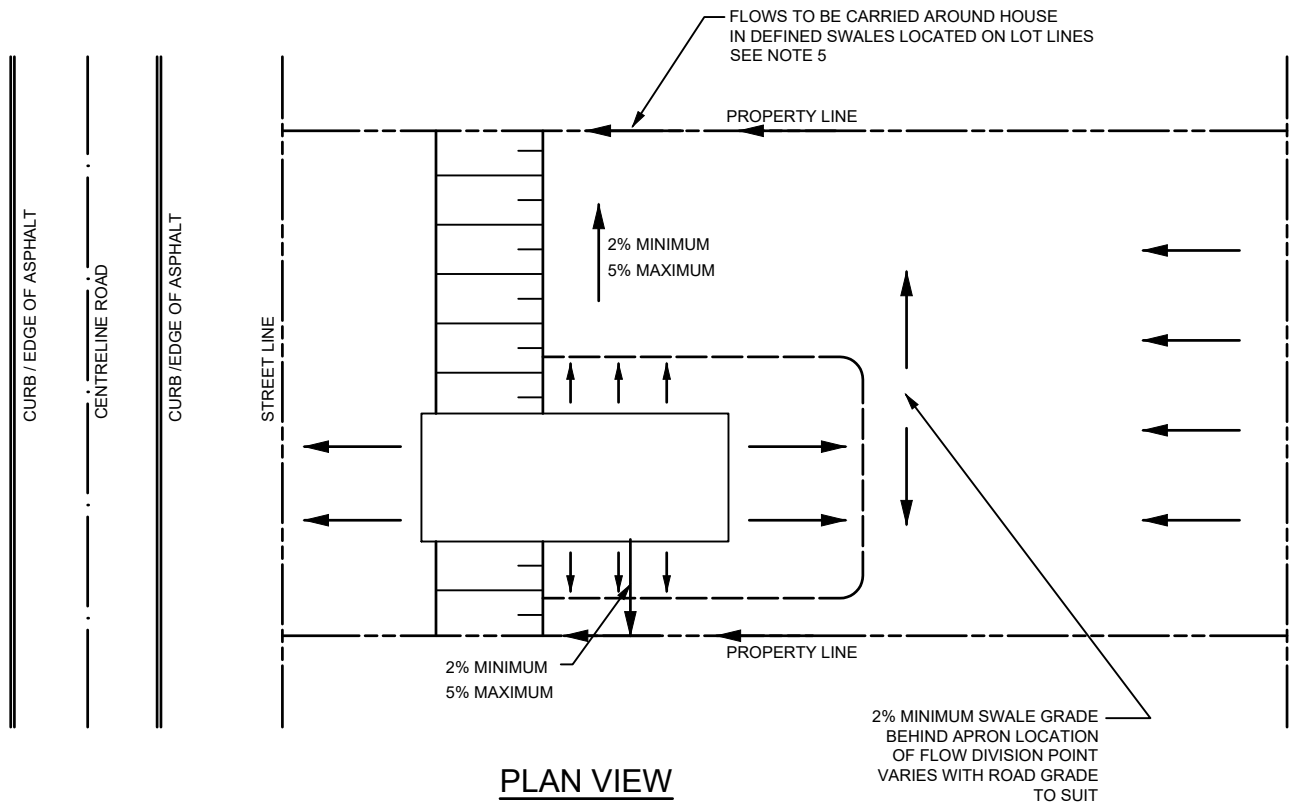
TOWNSHIP OF SEVERN

REAR LOT DRAINAGE FOR WALKOUT OR BACK SPLIT HOUSE

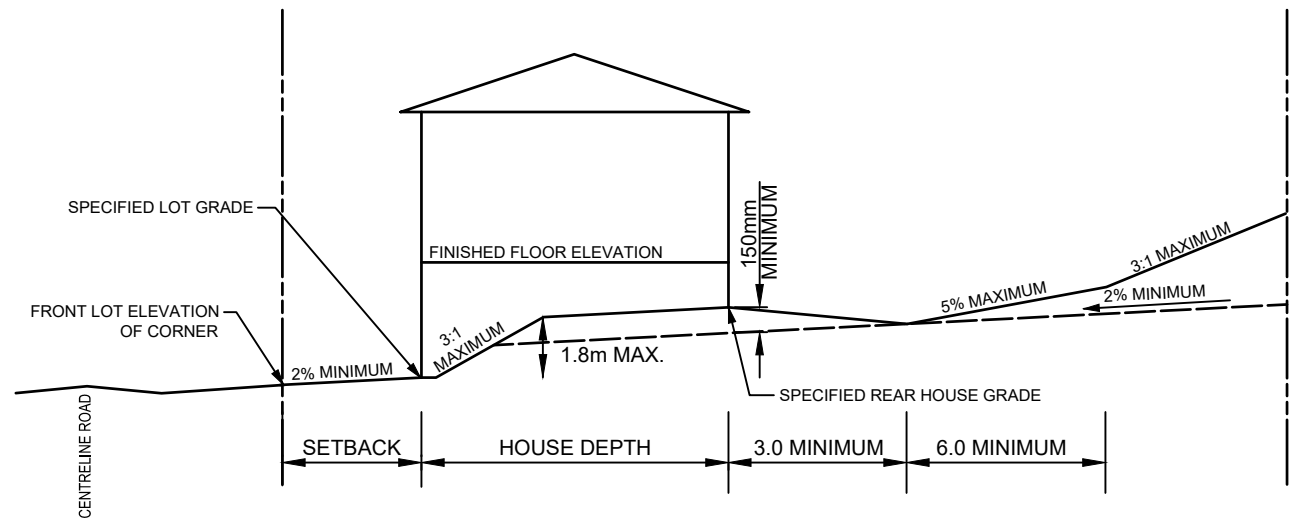
APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

404



PLAN VIEW



ELEVATION

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. SPECIFIED LOT GRADE SHALL BE MINIMUM 0.30m ABOVE HIGHEST FRONT LOT CORNER.
3. DRIVEWAYS ARE NOT TO BE USED AS AN OUTLET FOR ANY SIDEYARD SWALE.
4. REAR HOUSE GRADE MUST BE SPECIFIED ON LOT GRADING PLANS WHEN THIS HOUSE TYPE IS PROPOSED.
5. DRAINAGE SWALES TO BE ON PROPERTY LINE. SET SWALE ENTIRELY WITHIN LOT IF ABUTTING PROPERTY NOT UNDERGOING DEVELOPMENT.

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



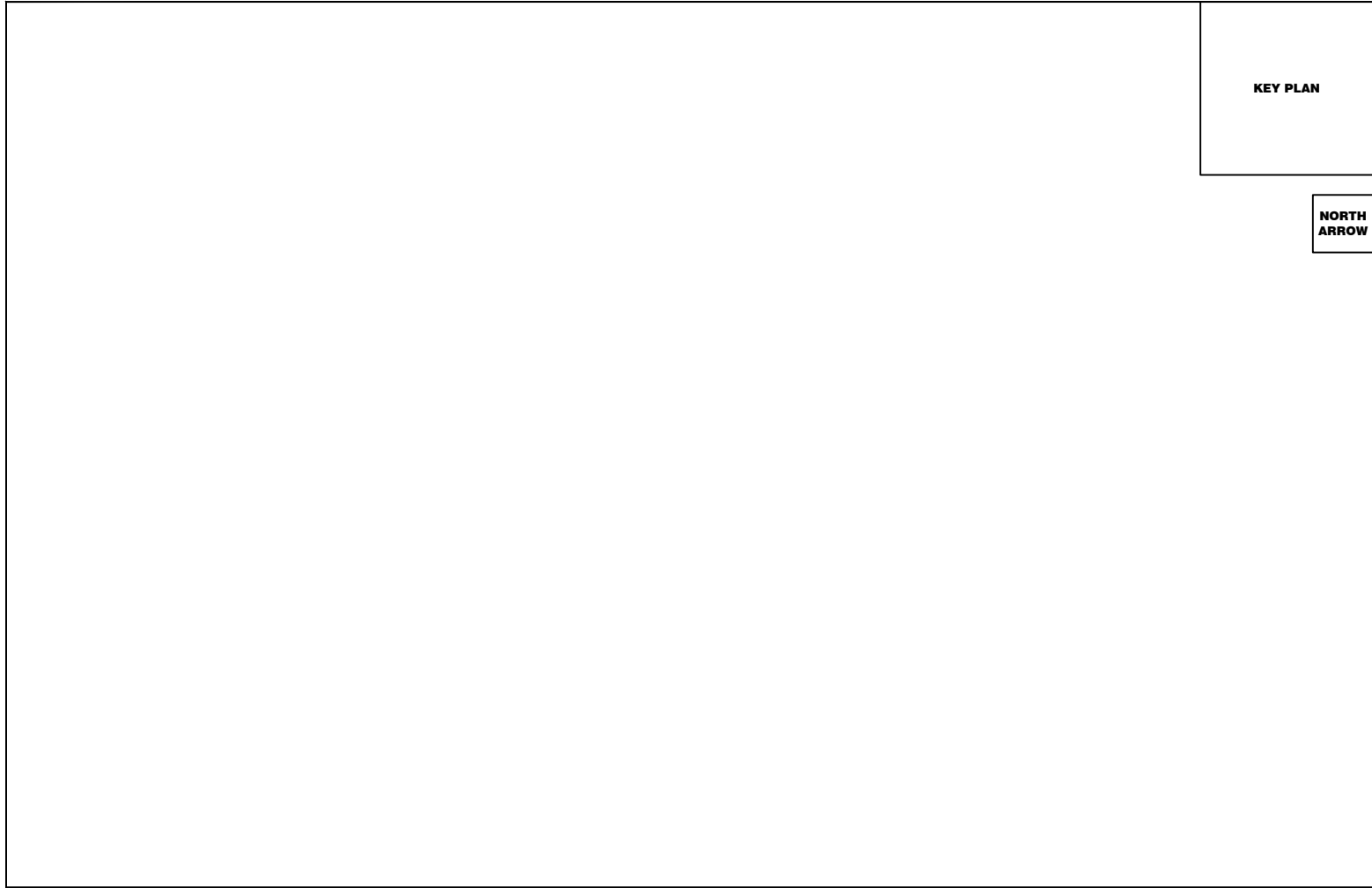
TOWNSHIP OF SEVERN

**FRONT LOT DRAINAGE FOR
FRONT SPLIT HOUSE**

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

405



KEY PLAN

**NORTH
ARROW**

<small>1. PIPE SIZES ARE IN MILLIMETRES UNLESS INDICATED. ELEVATIONS ARE IN METRES UNLESS INDICATED. ALL DIMENSIONS, ELEVATIONS AND SIZES ARE IN METRIC UNITS UNLESS INDICATED.</small>	TOWNSHIP OF SEVERN	<small>APPROVED</small>		NAME OF DEVELOPMENT CORPORATION <small>NAME OF DEVELOPMENT PROJECT</small> TOWNSHIP OF SEVERN	<small>CONSULTANT INFO</small>	
		<small>NO. REVISIONS DATE INITIAL</small>			<small>SCALE: 1:— JOB NO: XXXXXX</small> <small>DESIGN: XXXXX CHECKED: XXXXXX</small> <small>DRAWN: XXXXXX DATE: XXXXXX</small>	
BENCHMARK INFORMATION	<small>DIVISION OF PUBLIC WORKS</small>			<small>DRAWING TITLE</small> <small>DRAWING TITLE</small> <small>TOWNSHIP FILE #</small>		DWG. XXXXX



NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

TOWNSHIP OF SEVERN

**STANDARD PLAN SHEET
FOR DEVELOPMENT PROJECTS**

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS
STD. No.	501A

KEY PLAN

NORTH
ARROW

1. PIPE SIZES ARE IN MILLIMETRES UNLESS INDICATED.
ELEVATIONS ARE IN METRES UNLESS INDICATED.
ALL DIMENSIONS, ELEVATIONS AND SIZES ARE
IN METRIC UNITS UNLESS INDICATED.

BENCHMARK INFORMATION

TOWNSHIP OF
SEVERN

DIRECTOR OF PUBLIC WORKS

NO.	REVISIONS	DATE	INITIAL

APPROVED

TOWNSHIP OF SEVERN
NAME OF CAPITAL PROJECT

DRAWING TITLE
DRAWING TITLE
TOWNSHIP FILE #

CONSULTANT INFO

SCALE: 1:---	JOB NO: XXXXXX
DESIGN: XXXXX	CHECKED: XXXXXX
DRAWN: XXXXXX	DATE: XXXXXX
DWG. XXXXX	



NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23

TOWNSHIP OF SEVERN

STANDARD PLAN SHEET
FOR CAPITAL PROJECTS

APR'D:	DATE: 2023
DRAWN:	SCALE: NTS
STD. No.	501B

GENERAL - CONSTRUCTION

- A. ALL DIMENSIONS IN METRES AND PIPE SIZES IN MILLIMETRES UNLESS OTHERWISE NOTED.
- B. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWNSHIP OF SEVERN STANDARDS, OPSD AND OPSS. WHERE CONFLICT OCCURS, TOWNSHIP STANDARD TO GOVERN.
- C. WHERE OPS IS REFERENCED, IT MEANS THE MUNI VERSION, IF AVAILABLE.
- D. ROAD OCCUPANCY PERMIT MUST BE OBTAINED FROM THE ROAD AUTHORITY.
- E. LOCATIONS OF EXISTING SERVICES, INCLUDING UTILITIES, ARE NOT GUARANTEED. CONTRACTOR IS REQUIRED TO OBTAIN LOCATES, VERIFY LOCATIONS, AND ABIDE BY UTILITY REQUIREMENTS.
- F. TRENCH BACKFILL (OPSD 802.XXX AS APPLICABLE) TO BE SELECT NATIVE MATERIAL OR IMPORTED SELECT SUBGRADE TO OPSS 1010. BACKFILL TO BE PLACED IN MAXIMUM 150mm THICK LIFTS AND COMPACTED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- G. PIPE BEDDING TO BE GRANULAR 'A'. PIPE COVER TO BE GRANULAR 'B' MAX. AGGREGATE SIZE 25mm FOR RIGID PIPE AND GRANULAR 'A' FOR FLEXIBLE PIPE. (MINIMUM BEDDING DEPTH 150mm, MINIMUM COVER 300mm, COMPACTED TO A MINIMUM 95% SPMDD).
- H. CLEAR STONE WRAPPED IN FILTER FABRIC CAN BE SUBSTITUTED FOR BEDDING MATERIAL IF APPROVED BY THE TOWNSHIP.
- I. ALL MAINTENANCE HOLES ARE 1200mm DIAMETER UNLESS OTHERWISE SPECIFIED.
- J. ALL TOPSOIL AND EARTH EXCAVATION TO BE STOCK PILED OR REMOVED TO AN APPROVED SITE AS DIRECTED BY THE TOWNSHIP.
- K. THE OWNER'S ENGINEER SHALL PROVIDE BENCH MARK ELEVATIONS AND HORIZONTAL ALIGNMENT REFERENCE FOR THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK.
- L. ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION.
- M. ALL MAINTENANCE HOLE AND CATCH BASIN FRAMES AND COVERS TO BE SET TO BASE COURSE HL4 ASPHALT ELEVATION AND RAISED PRIOR TO PLACEMENT OF FINAL COURSE HL3 ASPHALT TO THE SATISFACTION OF THE TOWNSHIP.
- N. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
- O. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS-517 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR RESPONSIBLE FOR ENSURING CONFORMANCE WITH ALL MECP REQUIREMENTS AND PERMITS.
- P. ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- Q. DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
- R. THE CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EXISTING FACILITIES AS WELL AS CONTACTING ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND COORDINATING CONSTRUCTION ACCORDINGLY.
- S. ALL EROSION AND SEDIMENT CONTROLS TO BE INSTALLED PRIOR TO COMMENCEMENT OF WORK, TO BE MAINTAINED THROUGHOUT CONSTRUCTION, AND REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION AND DIRECTION IS PROVIDED BY THE TOWNSHIP TO REMOVE.



NO.	REVISION	APR'D	DATE	TOWNSHIP OF SEVERN	APR'D:	DATE:
1	2023 UPDATE		DEC/23			
				GENERAL - CONSTRUCTION NOTES	DRAWN:	SCALE:
					STD. No.	502

STORM SEWERS

- A. M.H.,CBMH AND DICBMH TO BE PER OPSD 701.XXX (AS APPROPRIATE) C/W SUMP UNLESS NOTED OTHERWISE.
- B. STEPS TO BE PER OPSD 405.010.
- C. M.H. FRAMES AND GRATES TO BE PER OPSD 401.01 CLOSED COVER.
- D. C.B.'S TO BE PER OPSD 705.010, 705.020
- E. DICB'S TO BE PER OPSD 705.030, 705.040, 706.010, 706.020, 706.030, 706.040
- F. C.B.'S AND CBMH FRAMES AND GRATES TO BE PER OPSD 400.100 AND REAR LOT 400.120..
- G. PIPE SUPPORT AT M.H.'S, CB'S AND CBMH'S TO BE PER OPSD 708.020.
- H. C.B. LEADS - 300mm DIA SINGLE AND 375mm DIA DOUBLE TO BE PER OPSD 708.010, 708.030.
- I. BEDDING AND COVER TO BE PER OPSD 802.010. (FLEXIBLE PIPE) GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL OR OPSD 802.030, 802.031 AND 802.032 (RIGID PIPE) GRANULAR 'A' BEDDING AND GRANULAR 'B' (MAXIMUM AGGREGATE SIZE 25mm) COVER.
- J. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- K. BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.
- L. WHERE RESIDENTIAL STORM SEWER CONNECTIONS ARE REQUIRED, THE STORM SEWER SHALL BE OVERSIZED.
- M. FROST DEPTH IS ASSUMED TO BE 1.5m. ALL MAINTENANCE HOLES AND CATCHBASINS TO HAVE FROST STRAPS PER OPSD 701.100.



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TOWNSHIP OF SEVERN

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

NOTES - STORM SEWERS

STD. No.

503

SANITARY SEWERS

- A. M.H.'S TO BE PER OPSD 701.XXX AS APPROPRIATE.
- B. BENCHING TO BE PER OPSD 701.021. NOTE: MINIMUM HOLE SIZE IN WALL IF PRE-CAST RISER SECTION SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS.
- C. STEPS TO BE PER OPSD 405.010.
- D. FROST STRAPS SHALL BE INSTALLED ON ALL MAINTENANCE HOLE AS PER OPSD 701.100
- E. BEDDING AND COVER TO BE PER OPSD 802.010 (FLEXIBLE PIPE), GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.
- F. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- G. FRAMES AND COVERS TO BE PER OPSD 401.01 TYPE 'A' (CLOSED COVER).
- H. SERVICE CONNECTIONS TO BE PER OPSD 1006.010 (125mm), GRANULAR 'A' EMBEDMENT, TERMINATE 1.5m INSIDE THE PROPERTY LINE WITH A CLEANOUT TO THE SURFACE AT THE PROPERTY LINE 3.0m LEFT OF WATER SERVICE (FACING LOT) C/W 38mm x 89mm MARKER POST PAINTED GREEN. MINIMUM GRADE TO BE 2.0%.
- I. RADIUS BENDS TO BE USED ON SANITARY SEWER CONNECTIONS WHERE THE ANGLE OF CONNECTION BETWEEN THE SERVICE AND SEWER EXCEEDS 90°.
- J. BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.
- K. CLEAR STONE WRAPPED WITH FILTER FABRIC CAN BE SUBSTITUTED FOR EMBEDMENT MATERIAL IF APPROVED BY THE ENGINEER.
- L. MAINTENANCE HOLE FRAMES TO BE SET TO BASE COURSE ASPHALT ELEVATION AND RAISED PRIOR TO PLACING SURFACE COURSE ASPHALT TO THE SATISFACTION OF THE TOWNSHIP.
- M. PIPE SUPPORT AT MAINTENANCE HOLES AS PER OPSD 708.020.
- N. ALL MAINTENANCE HOLES, UNLESS EXPRESSLY IDENTIFIED ARE 1200mm DIAMETER.
- O. GENERAL INSTALLATION AND TESTING OF SEWERS AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 407, 408, 409 (CCTV), 410, 421 AND ALL SPECIFICATIONS REFERENCED WITHIN THE CONTRACT DOCUMENTS.
- P. ALL CONNECTIONS TO BE MADE WITH APPROVED PRE-MANUFACTURED TEES.



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NOTES - SANITARY SEWERS

STD. No.

504

WATER MAINS

- A. BEDDING AND COVER TO BE PER OPSD -802.010, GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.
- B. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- C. SERVICE CONNECTIONS TO BE PER OPSD 1104.010 AND 1104.020, 100mm GRANULAR 'A' EMBEDMENT AND COVER OVER PIPE. TERMINATE AT PROPERTY LINE AT CENTRE OF LOT C/W CURB STOP AND BOX, TESTING TAIL TO SURFACE ATTACHED TO A 38mm x 89mm MARKER POST PAINTED BLUE.
- D. HYDRANTS TO BE PER OPSD 1105.010. DRAIN PLUGS SHALL BE INSTALLED.
- E. BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD,
- F. MINIMUM COVER ON WATER MAIN AND SERVICES TO BE 1.7 m.
- G. GATE VALVES, BENDS AND HYDRANT LEADS AND FITTINGS TO BE CONNECTED WITH ROMAC GRIP RING RESTRAINING CLAMP OR APPROVED EQUAL.
- H. CLEARANCE BETWEEN WATER MAINS AND SEWERS TO BE A MINIMUM OF 0.5m VERTICAL OR 3.0 m MINIMUM HORIZONTAL SEPARATION.
- I. SERVICES TO BE PER OPSD 1104.010.
- J. GENERAL INSTALLATION AND TESTING OF WATER MAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 441 ANSI/AWWA C651, MECP WATERMAIN DISINFECTION PROCEDURE AND ALL SPECIFICATIONS REFERENCED WITHIN THE CONTRACT DOCUMENTS.



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TOWNSHIP OF SEVERN

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NOTES - WATER MAINS

STD. No.

505

ROADS

- A. SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED PRIOR TO PLACING GRANULAR 'B'.
- B. GRANULAR 'A' AND 'B' BASE TO BE COMPACTED TO 100% OF THE MATERIAL'S SPMD.
- C. ROADWAYS TO BE CONSTRUCTED WITH MIN. 300mm GRANULAR 'B' TYPE 1, 150mm GRANULAR 'A', 50mm HL4 BASE AND 40mm HL3 SURFACE COURSE ASPHALT UNLESS OTHERWISE NOTED. ALL SUBDRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 405.
- D. SELECT SUBGRADE MATERIAL, OR IMPORTED GRANULAR MATERIAL APPROVED BY THE ENGINEER, COMPACTED TO 98% OF THE MATERIAL'S SPMD, TO BE USED AS FILL IN ALL AREAS WHERE PROPOSED PIPE INVERTS ARE HIGHER THAN EXISTING GRADE OR AS INSTRUCTED BY THE ENGINEER.
- E. ALL GRANULARS AND ASPHALT MATERIALS AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 314 AND OPSS 310
- F. JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT.
- G. STOP SIGNS AND STREET SIGNS TO TOWNSHIP STANDARDS.
- H. REINSTATEMENT OF ALL DISTURBED BOULEVARDS TO INCLUDE REGRADING, 150mm TOPSOIL AND SOD TO OPSS 802 AND 803.
- I. CONCRETE CURB AND GUTTER TO BE PER OPSD 600.040 AND OPSS 353
- J. CONCRETE SIDEWALK TO BE PER OPSD 310.010, 310.030 AND OPSS 351. SUBBASE TO CONSIST OF MINIMUM 150mm OF GRANULAR 'A'. TACTILE WALKING SURFACE INDICATORS TO BE PER OPSD 310.039.



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TOWNSHIP OF SEVERN

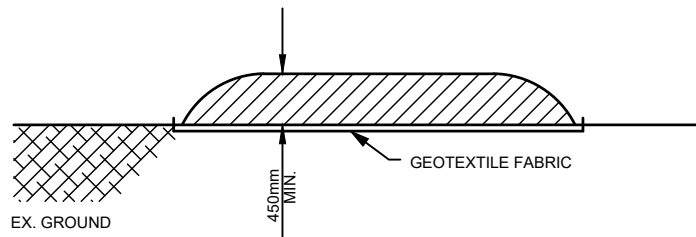
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DRAWN: _____ SCALE: NTS

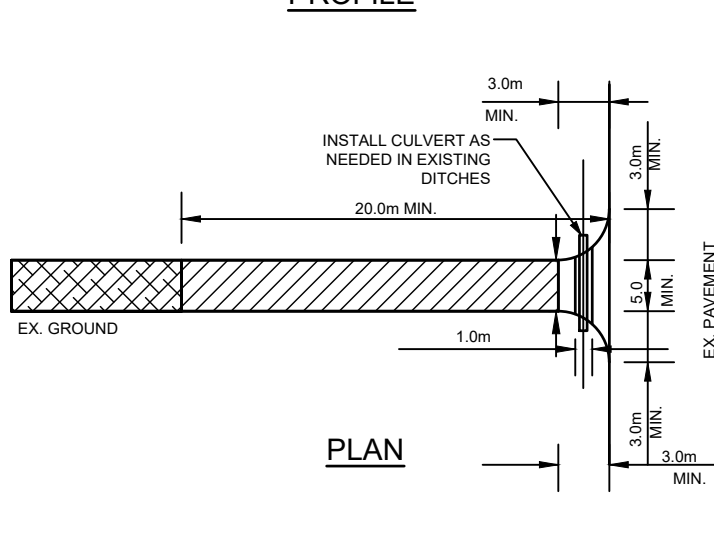
NOTES - ROADS

STD. No.

506



PROFILE



PLAN

- **STONE SIZE** - THE STONE PAD SHALL BE A MIN. 450mm THICK.
 USE 50 TO 100mmØ STONE OR RECLAIMED CONCRETE EQUIVALENT FOR FIRST 15m FROM ADJACENT ROAD & 150mmØ STONE FOR REMAINDER OF STONE PAD.
- **LENGTH** - AS REQUIRED BUT NOT LESS THAN 20m.
- **WIDTH** - 5m MIN. BUT NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
- **GEOTEXTILE FABRIC** (TERRAFIX 270R OR EQUAL) WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
- **SURFACE WATER** - ALL SURFACE WATER FLOWING OR DIRECTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
- **MAINTENANCE** - THE CONTRACTOR SHALL MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR. UPON OBSERVATION OF CONTINUOUS MUD TRACKING ONTO ADJACENT STREETS, THE STONE MAT IS TO BE FULLY REPLACED.
- **WASHING** - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- **INSPECTION AND REQUIRED MAINTENANCE** AFTER EACH RAIN SHALL BE PROVIDED BY THE CONTRACTOR.

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. PURPOSE OF CONSTRUCTION MAT IS TO MINIMIZE TRANSPORTATION OF SEDIMENT ONTO ROADWAYS.
3. CONSTRUCTION MAT IS TO BE INSTALLED AS THE FIRST STEP IN THE SITE ALTERATION PROCESS.
4. CONSTRUCTION MATS ARE REQUIRED WHERE PAVED ROADS ARE WITHIN 300m OF THE SITE.

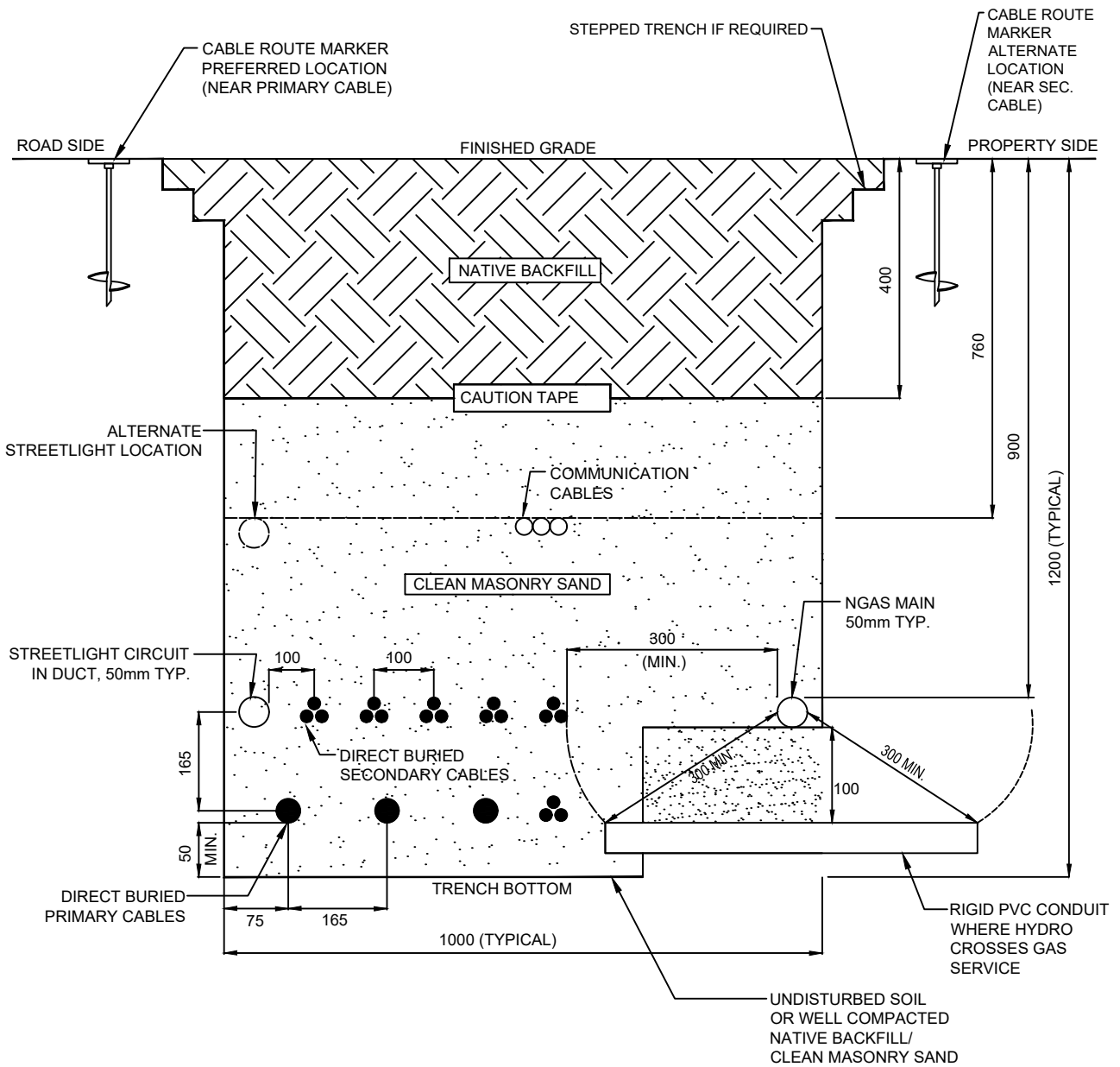


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TOWNSHIP OF SEVERN

CONSTRUCTION ENTRANCE MAT

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS
STD. No.	601	



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. BACKFILL TO CONSIST OF 150mm OF CLEAN MASON SAND ABOVE CABLES/DUCTS AND CLEAN NATIVE MATERIAL.
3. WARNING TAPE TO BE PLACED PRIOR TO PLACING THE FINAL 400mm OF BACKFILL.

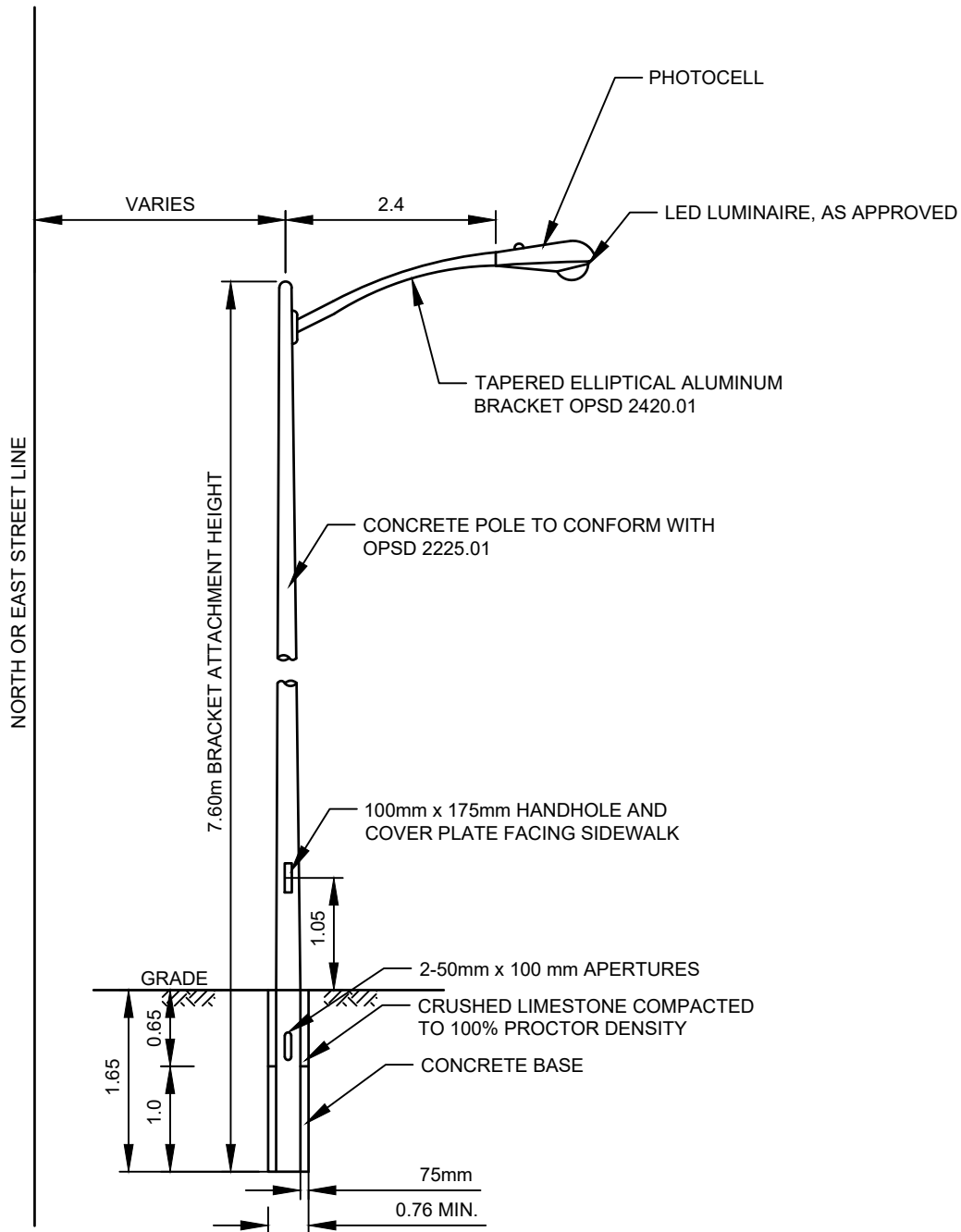
NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



TOWNSHIP OF SEVERN

JOINT UTILITY TRENCH - 4 PARTY

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS
STD. No.	701



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. S/L WIRING TO LOOP UP TO HANDHOLE CONNECTION TO LUMINAIRE WIRING BY MEANS OF ESNA FUSE AND CABLE CONNECTOR.
3. MINIMUM SIZE U/G CONDUCTOR AWG No 8.
4. DEPTH OF BURY TO BE MODIFIED TO SUIT POLE HEIGHT AS NECESSARY

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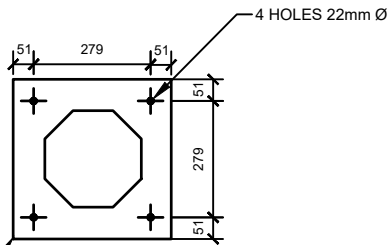
TOWNSHIP OF SEVERN

STREET LIGHTING - DIRECT BURIED

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

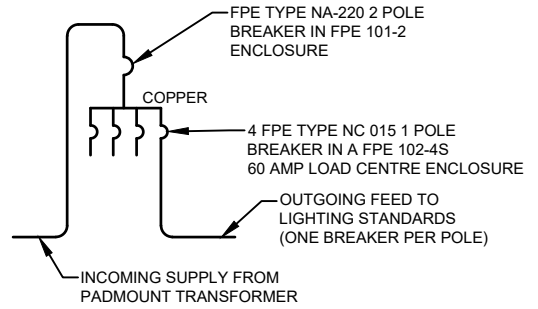
STD. No.

702

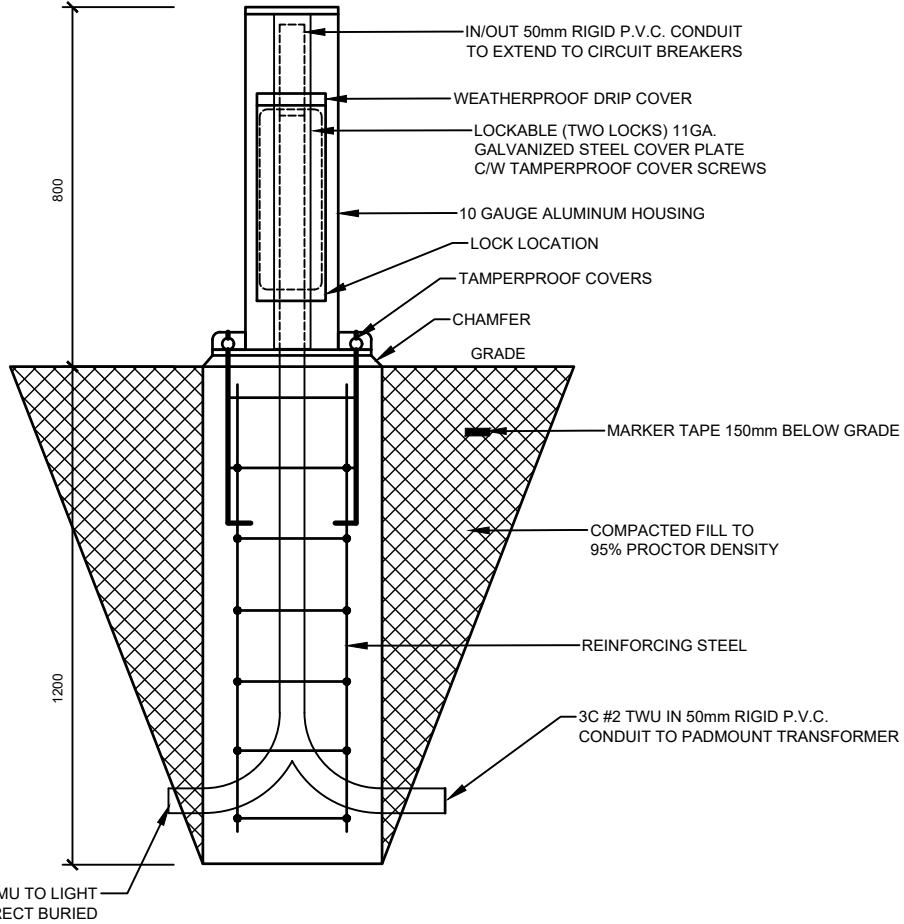


TOP VIEW

381 x 381 x 6mm PLATE
C/W 232 OCT. CUTOUT



**ROADWAY LIGHTING DISTRIBUTION
S.L.D.**



**STREETLIGHT
PEDESTAL**

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. SUPPLY & INSTALL GALVANIZED STEEL 800mm PEDESTAL ON CONCRETE BASE.
3. PEDESTAL SHALL HAVE BREAKERS.

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TOWNSHIP OF SEVERN

STREET LIGHT PEDESTAL

APR'D:

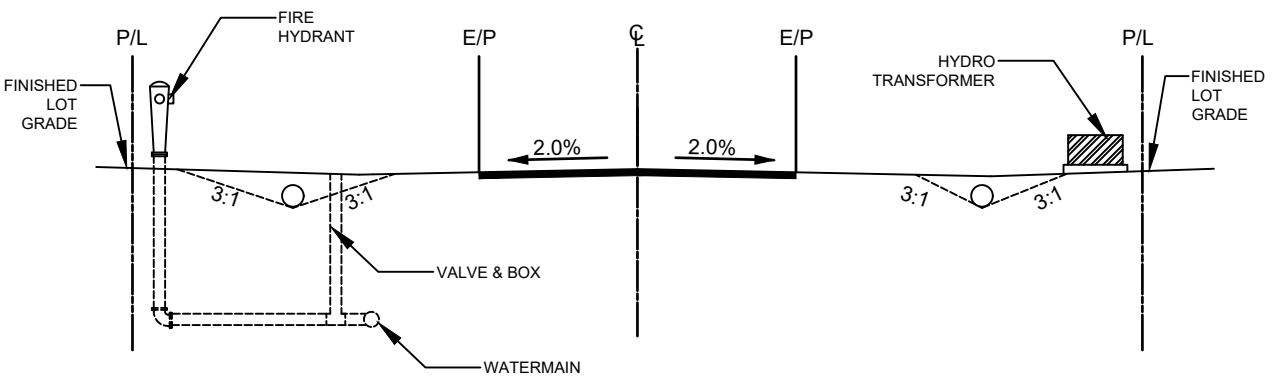
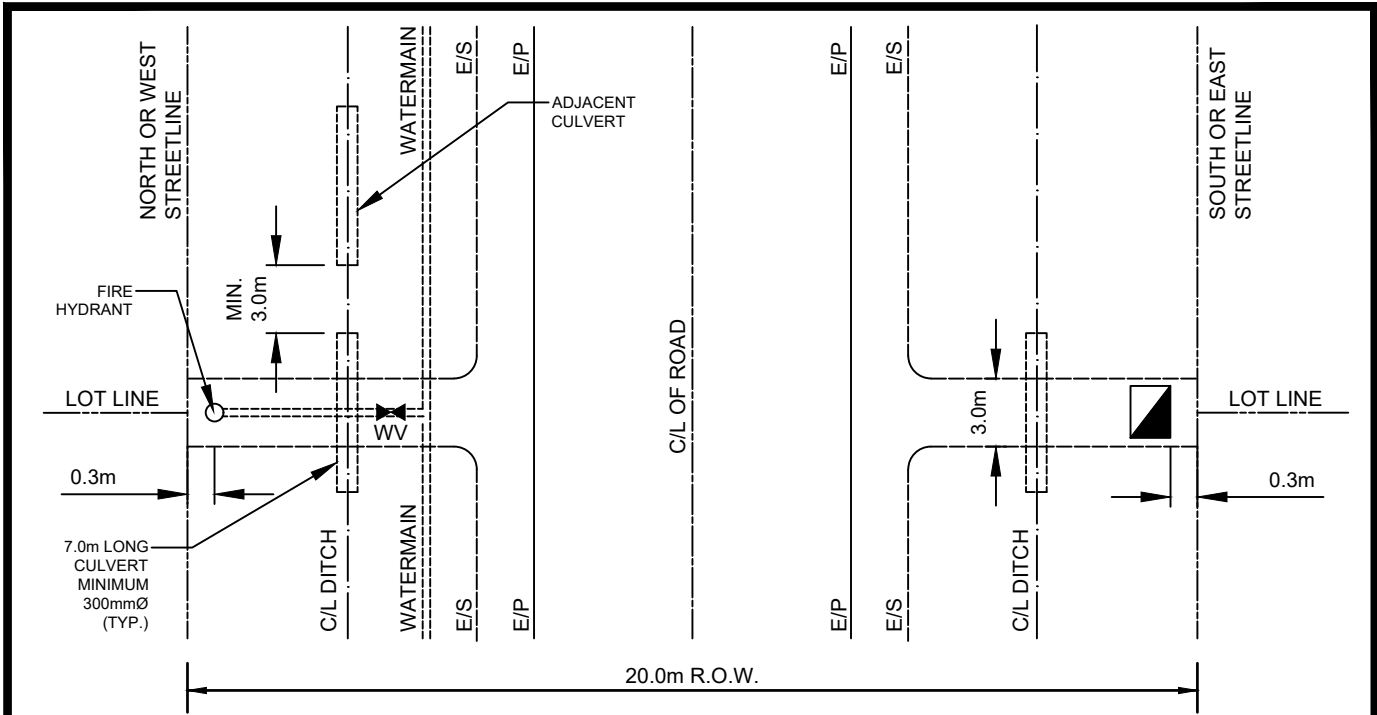
DATE: 2012

DRAWN:

SCALE: NTS

STD. No.

703



NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. THE CULVERT TO BE A MINIMUM LENGTH OF 7.0m TO PROVIDE A 3.0m PLATFORM TO ALLOW PEDESTRIAN TRAFFIC. THE PLATFORM AREA SHOULD NOT BE LARGE ENOUGH TO ACCOMMODATE VEHICULAR TRAFFIC.
3. THE DIAMETER OF THE CULVERTS WILL BE IN ACCORDANCE WITH THE STORM DRAINAGE PLAN.
4. MINIMUM 3.0m SEPARATION BETWEEN ACCESS CULVERT AND ADJACENT CULVERT.
5. TOP OF VALVE BOX TO BE FLUSH WITH ACCESS SURFACE.
6. THE VALVE STEM MAY REQUIRE AN EXTENSION TO ACCOMMODATE A STANDARD VALVE KEY.

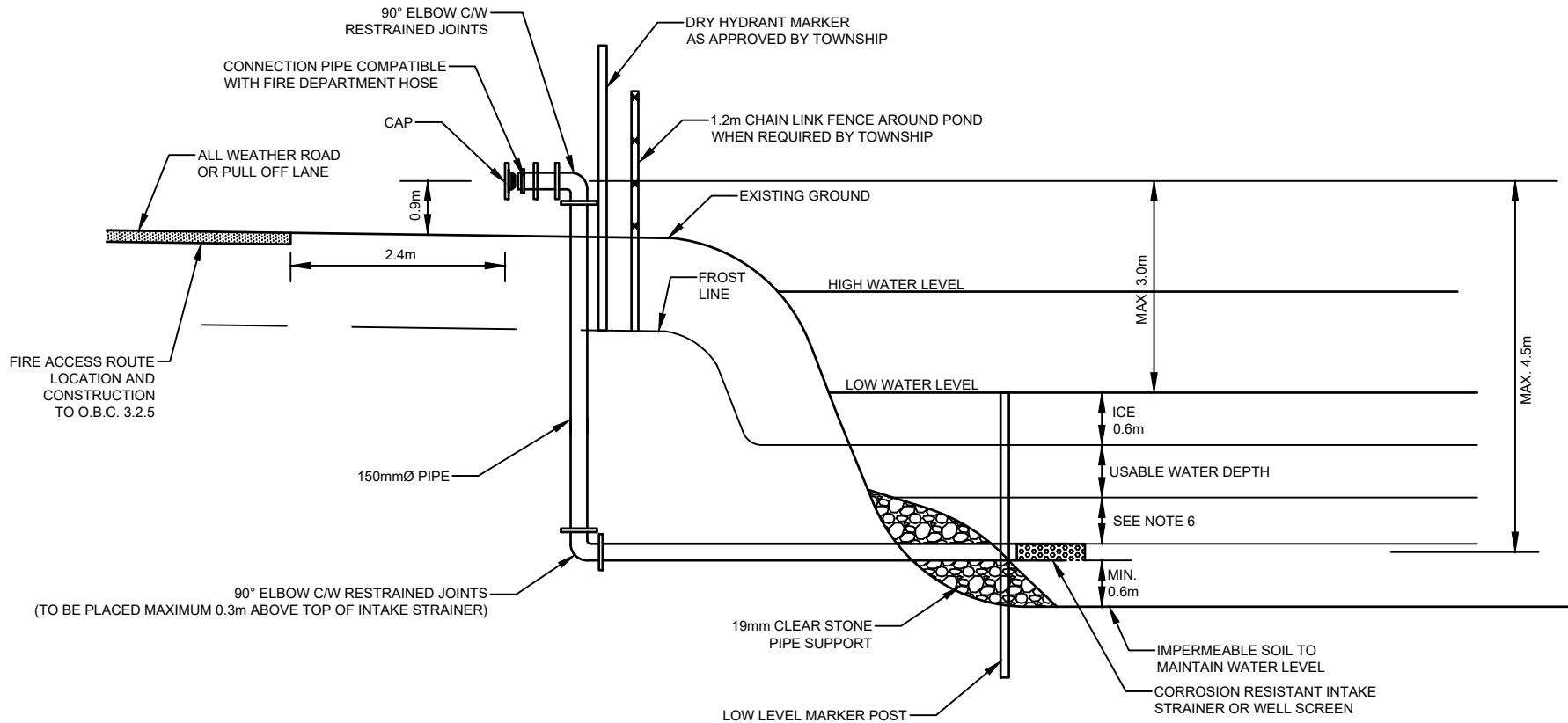
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TOWNSHIP OF SEVERN

ACCESS CULVERTS FOR FIRE HYDRANTS AND HYDRO TRANSFORMERS

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS
STD. No.	704



NOTES:

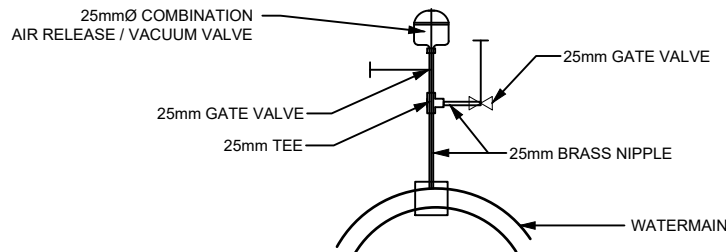
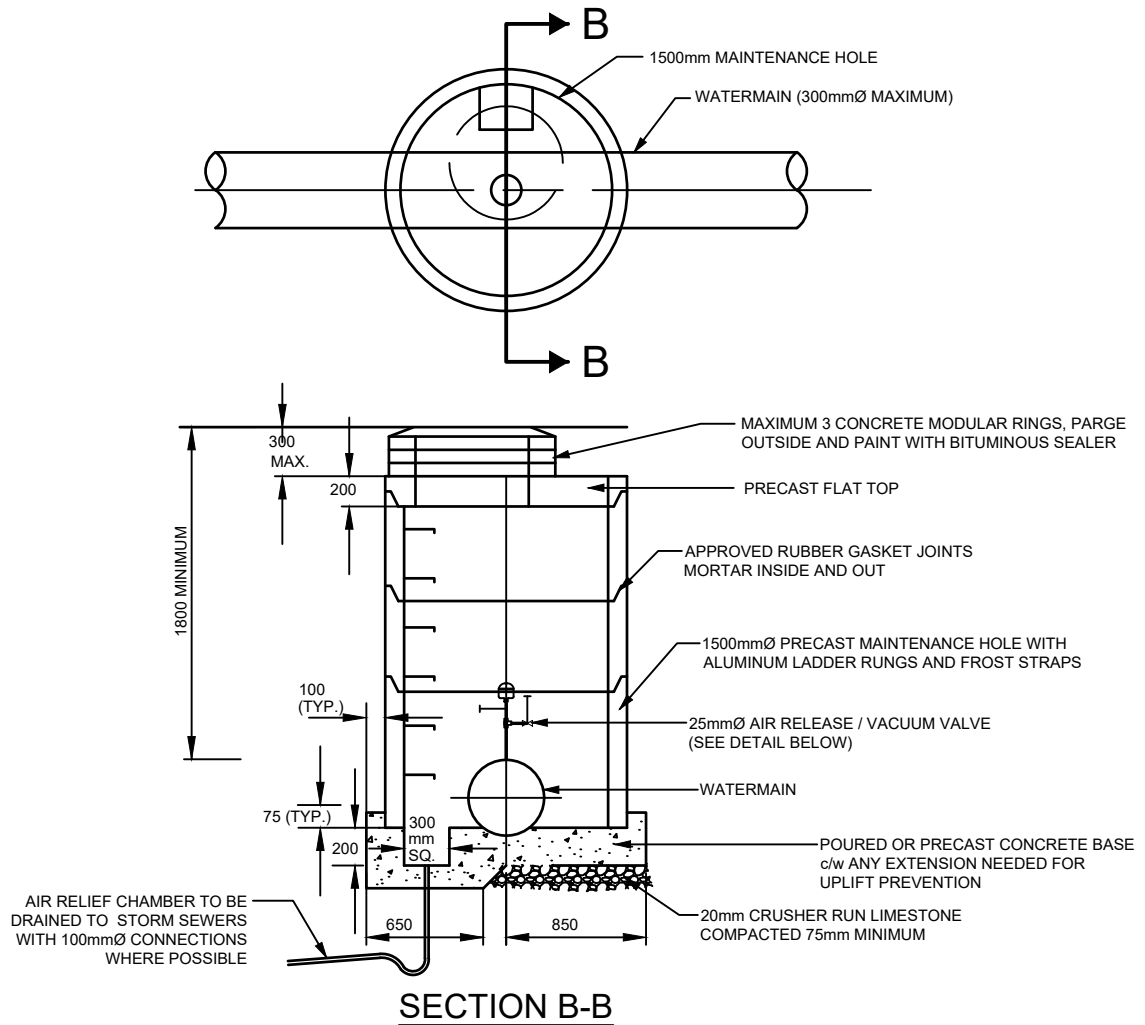
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. PIPE MATERIAL AND INSTALLATION TO CONFORM TO O.B.C. 7.2.11 AND NFPA 1142.
3. EFFECTIVE VOLUME OF POND WATER TO CONFORM TO O.B.C. APPENDIX A 3.2.57 (VOLUME = USABLE WATER DEPTH x POND AREA).
4. LOW WATER LEVEL TO BE STAKED AND MARKED. IF WATER LEVEL FALLS BELOW LOW WATER LEVEL, OWNER MUST REPLENISH WATER TO MAINTAIN MINIMUM WATER LEVEL.
5. DRY HYDRANT TO BE TESTED AND BACK FLUSHED ANNUALLY WITH PUMPER TO VERIFY OPERATION.
6. WHEN POSSIBLE, A MINIMUM 0.6m WATER DEPTH IS RECOMMENDED BETWEEN OBVERT OF PIPE AND USABLE WATER DEPTH TO MINIMIZE VORTEX. WHERE POND DEPTH (LOW WATER LEVEL) WOULD EXCEED 2.4m, THIS AREA CAN BE INCLUDED IN USABLE WATER DEPTH CALCULATION TO MINIMIZE POND DEPTH.
7. IF GUIDE RAIL IS WARRANTED, PLACE WITHIN 1.5m OF THE CONNECTION FOR ACCESS.



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TOWNSHIP OF SEVERN	
DRY HYDRANT DETAIL	

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS
STD. No.	801	



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. ALL FITTINGS TO BE BRASS.
3. GRANULAR 'A' BACKFILL TO BE PLACED TO A MINIMUM THICKNESS OF 300mm ON ALL SIDES AND COMPACTED TO 100% STANDARD PROCTOR DENSITY.

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TOWNSHIP OF SEVERN

AIR RELEASE VALVE IN CHAMBER

APR'D:

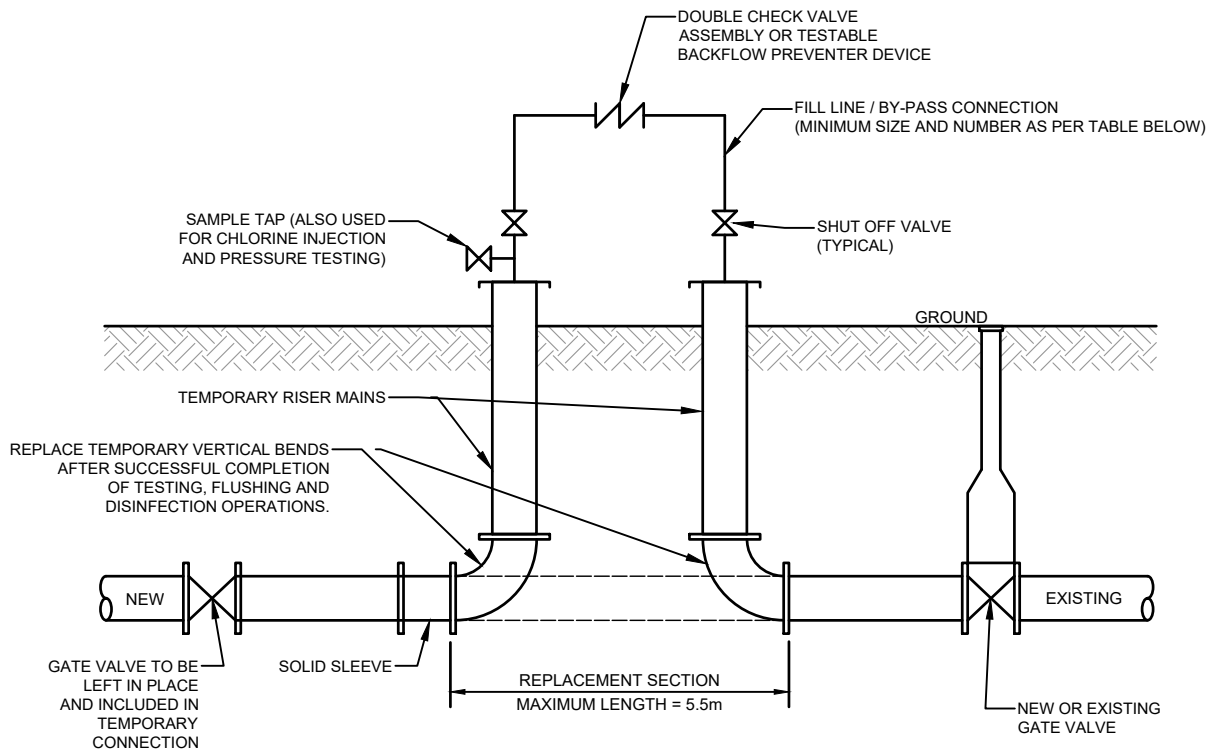
DATE: 2012

DRAWN:

SCALE: NTS

STD. No.

802



TYPICAL TEMPORARY ABOVE GRADE BY-PASS CONNECTION FOR WATERMAINS

PIPE DIAMETER	FLOW REQUIRED TO PRODUCE 0.76m/s (APPROX.) VELOCITY IN MAIN	SIZE OF TAP (mm)			NUMBER OF OPEN 64mm HYDRANT OUTLETS
		25	38	51	
mm	l/s	NUMBER OF TAPS ON PIPE			
100	6.3	1	-	-	1
150	12.6	-	1	-	1
200	25.2	-	2	1	1
250	37.9	-	2	2	1
300	56.8	-	-	3	2
400	109.9	-	-	4	2

REQUIRED FLOW AND OPENINGS TO FLUSH PIPELINES (276kPa/40 PSI RESIDUAL PRESSURE IN WATERMAIN)

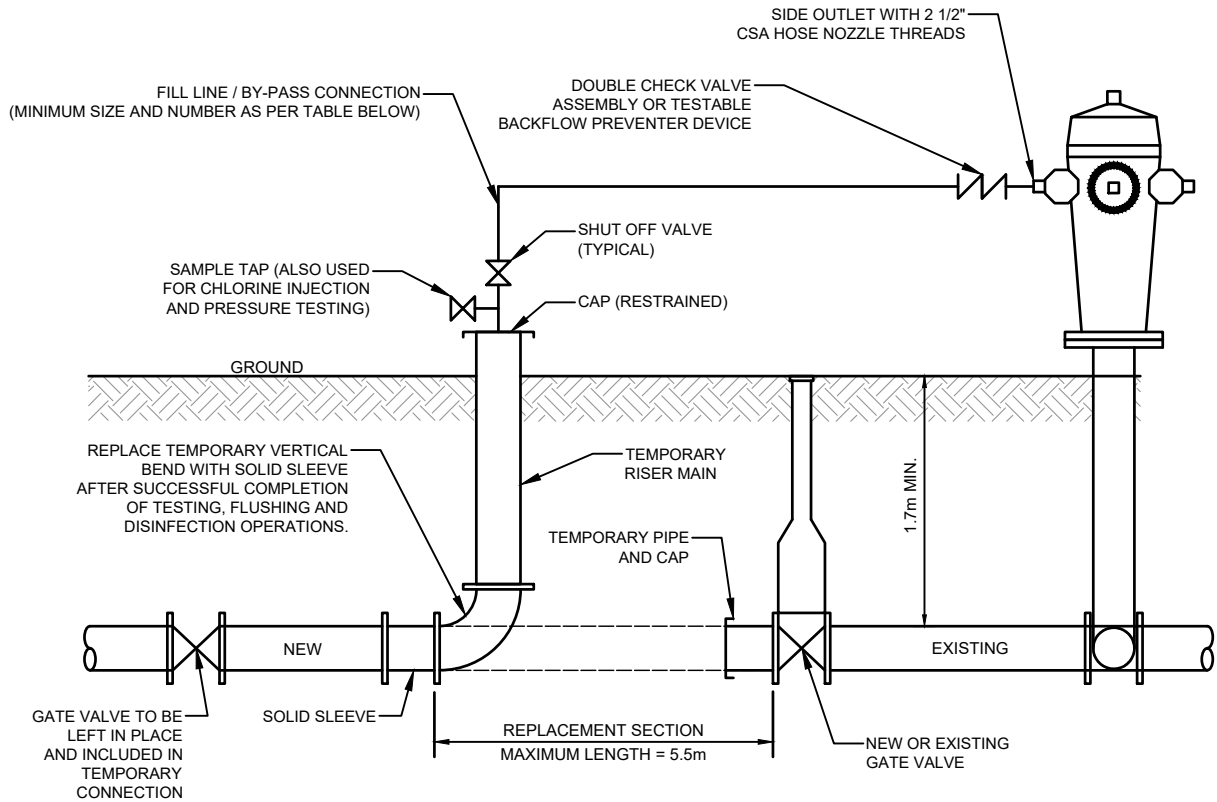
NO.	REVISION	APR'D	DATE
1	2023 UPDATE & RENUMBERED		DEC/23



TOWNSHIP OF SEVERN

TEMPORARY ABOVE GRADE BY-PASS CONNECTION FOR WATERMAINS

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS
STD. No.	803	



TYPICAL TEMPORARY ABOVE GRADE BY-PASS CONNECTION TO EXISTING FIRE HYDRANT FOR NEW WATERMANS

PIPE DIAMETER	FLOW REQUIRED TO PRODUCE 0.76m/s (APPROX.) VELOCITY IN MAIN	SIZE OF TAP (mm)			NUMBER OF OPEN 64mm HYDRANT OUTLETS
		25	38	51	
mm	l/s	NUMBER OF TAPS ON PIPE			
100	6.3	1	-	-	1
150	12.6	-	1	-	1
200	25.2	-	2	1	1
250	37.9	-	2	2	1
300	56.8	-	-	3	2
400	109.9	-	-	4	2

REQUIRED FLOW AND OPENINGS TO FLUSH PIPELINES (276kPa/40 PSI RESIDUAL PRESSURE IN WATERMAIN)

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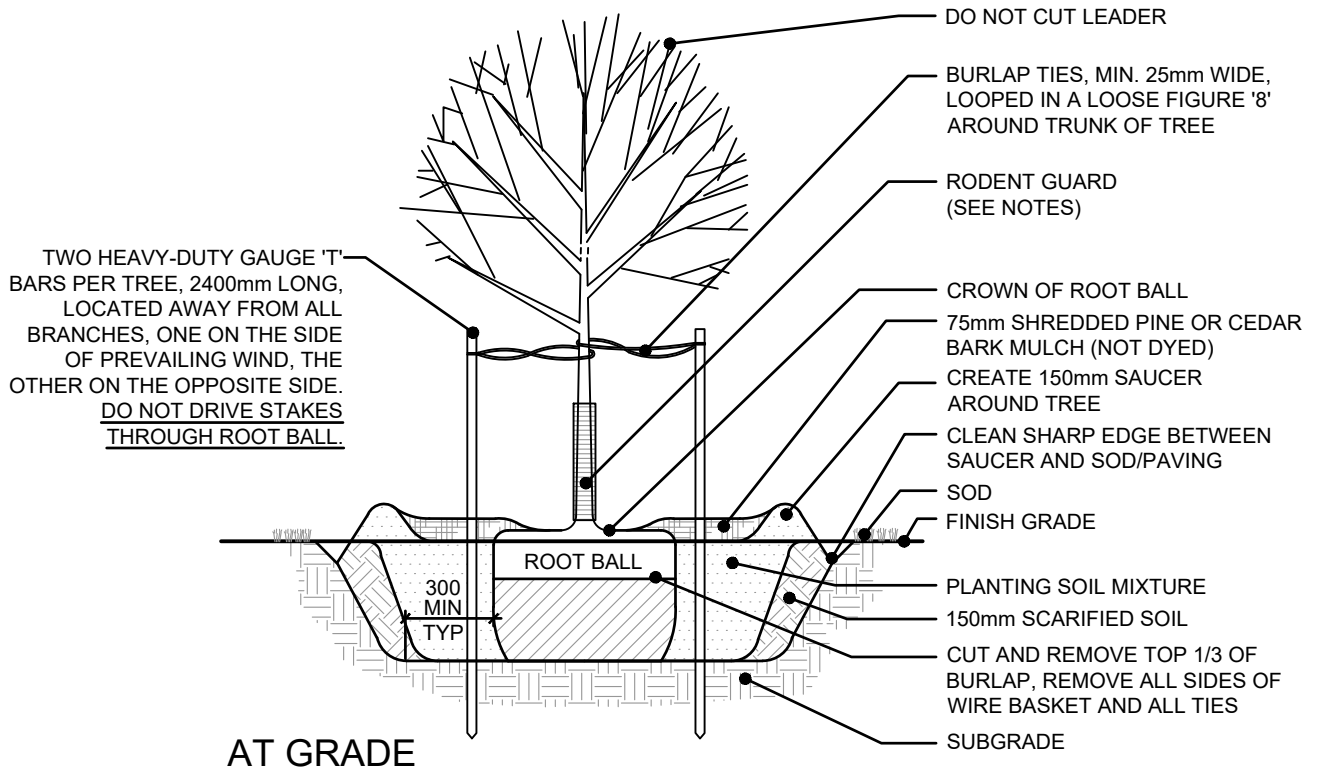


TOWNSHIP OF SEVERN

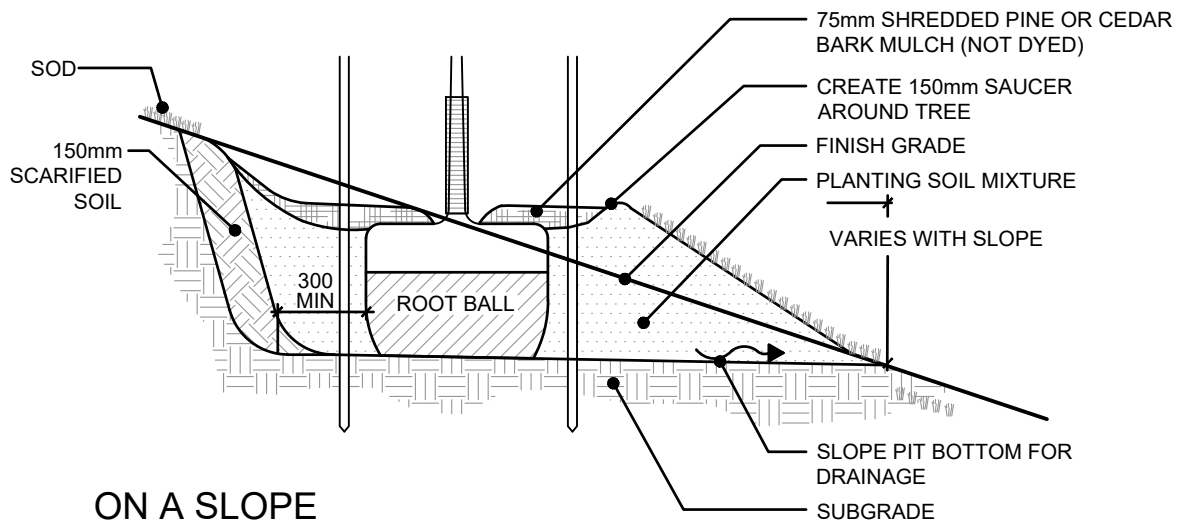
TEMPORARY ABOVE GRADE BY-PASS CONNECTION TO EXISTING FIRE HYDRANT FOR NEW WATERMANS

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS

STD. No. 804



AT GRADE



ON A SLOPE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
3. POSITION CROWN OF ROOT BALL 50mm ABOVE FINISH GRADE TO ALLOW FOR SETTLING.
4. DO CORRECTIVE PRUNING TO RETAIN NATURAL FORM OF TREE AS DIRECTED BY THE LANDSCAPE ARCHITECT.
5. FOR TREES PLANTED WITHIN PLANTING OR SHRUB BEDS, DELETE SAUCER AROUND BASE OF TREE.
6. NO TREE PITS SHALL BE LEFT OPEN OVERNIGHT.
7. RODENT GUARDS REQUIRED ONLY FOR TREES PLANTED IN NATURALIZED OR "NO-MOW" AREAS.

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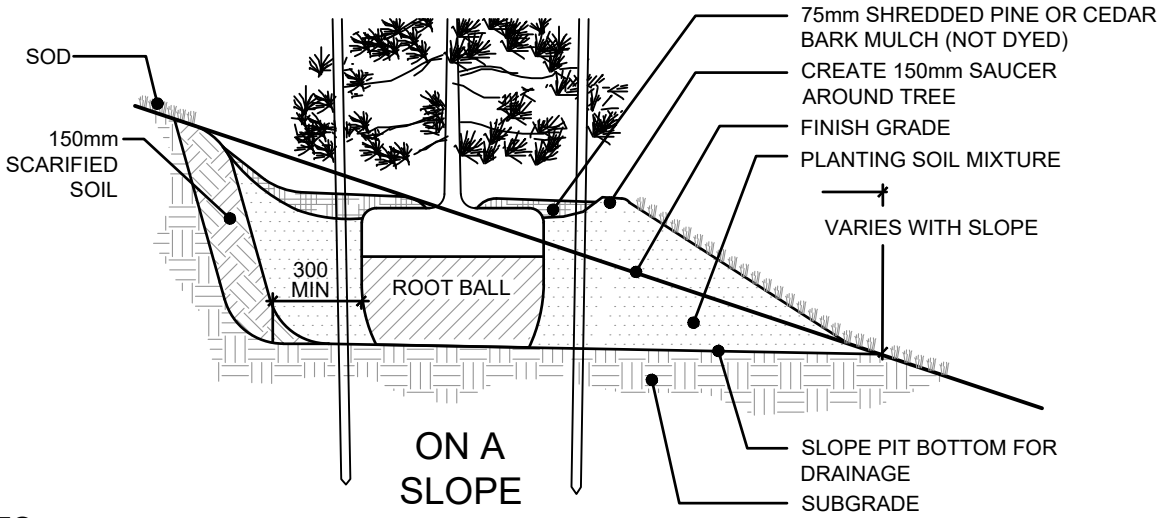
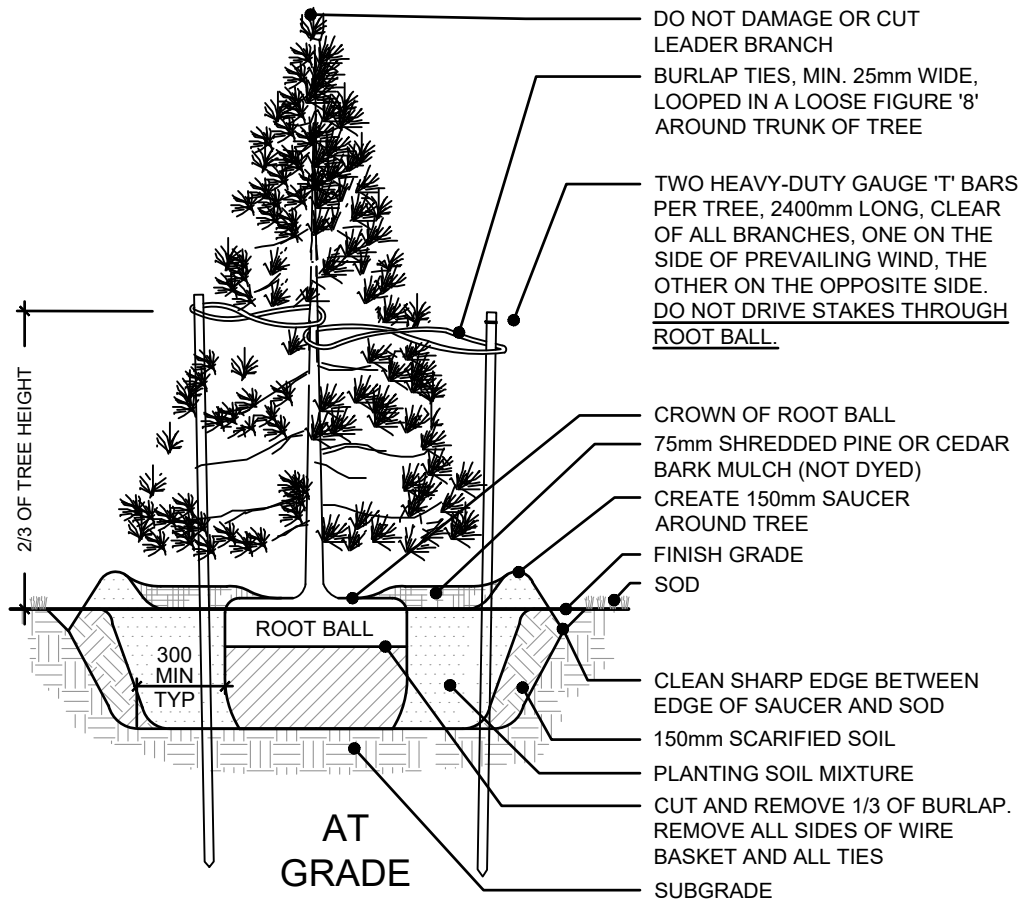
TOWNSHIP OF SEVERN

DECIDUOUS TREE PLANTING

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

1101



NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
3. POSITION CROWN OF ROOT BALL 50mm ABOVE FINISH GRADE TO ALLOW FOR SETTLING.
4. FOR TREES PLANTED WITHIN PLANTING OR SHRUB BEDS, DELETE SAUCER AROUND BASE OF TREE.
5. NO TREE PITS SHALL BE LEFT OPEN OVERNIGHT.

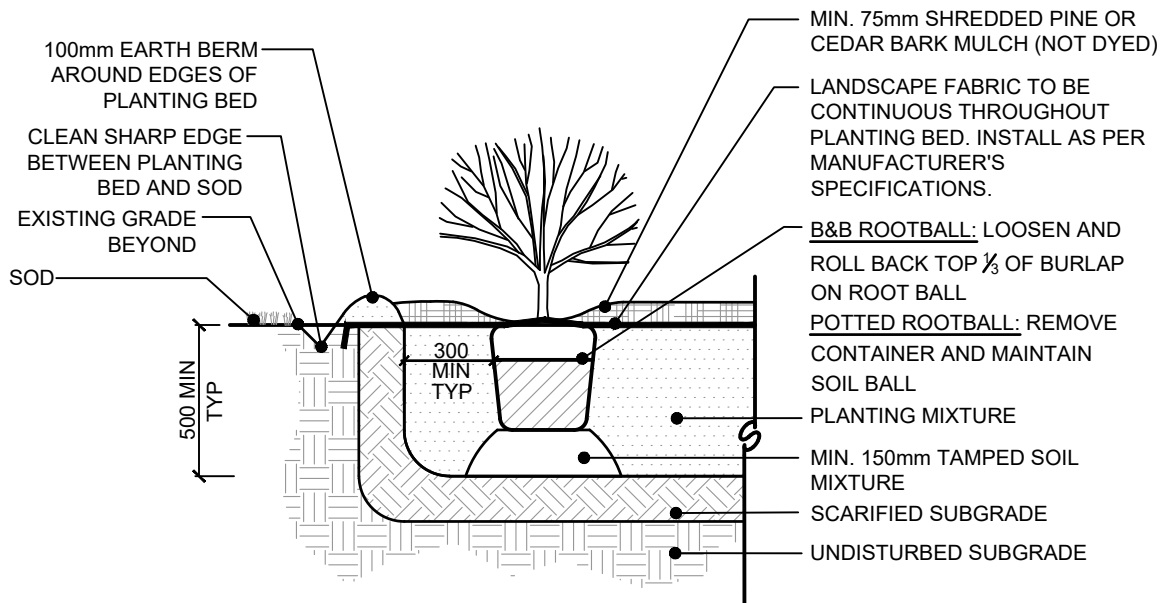
NO.	REVISION	APR'D	DATE
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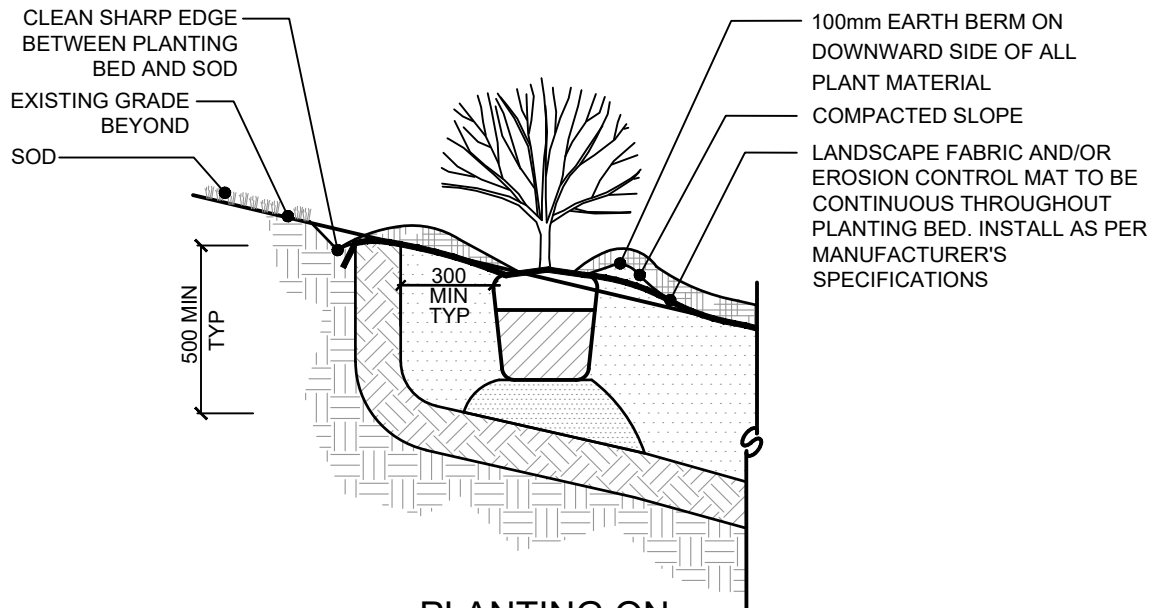
TOWNSHIP OF SEVERN

CONIFEROUS TREE PLANTING

APR'D:	DATE:	2012
DRAWN:	SCALE:	NTS
STD. No.	1102	



TYPICAL SHRUB PLANTING



PLANTING ON 3:1 SLOPE DETAIL

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
3. POSITION CROWN OF ROOT BALL 25mm ABOVE FINISH GRADE TO ALLOW FOR SETTLING.

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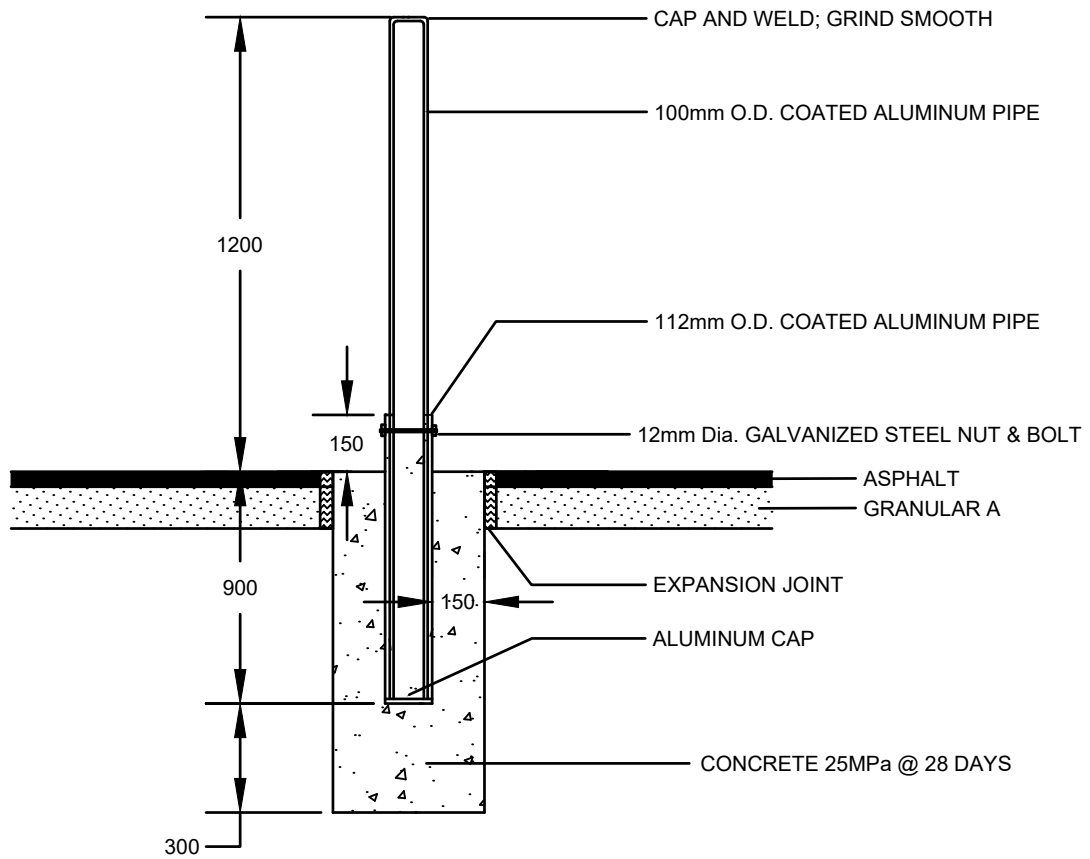
TOWNSHIP OF SEVERN

SHRUB PLANTING

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

1103



NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. POST TO BE CENTRED IN WALKWAYS.

NO.	REVISION	APR'D	DATE
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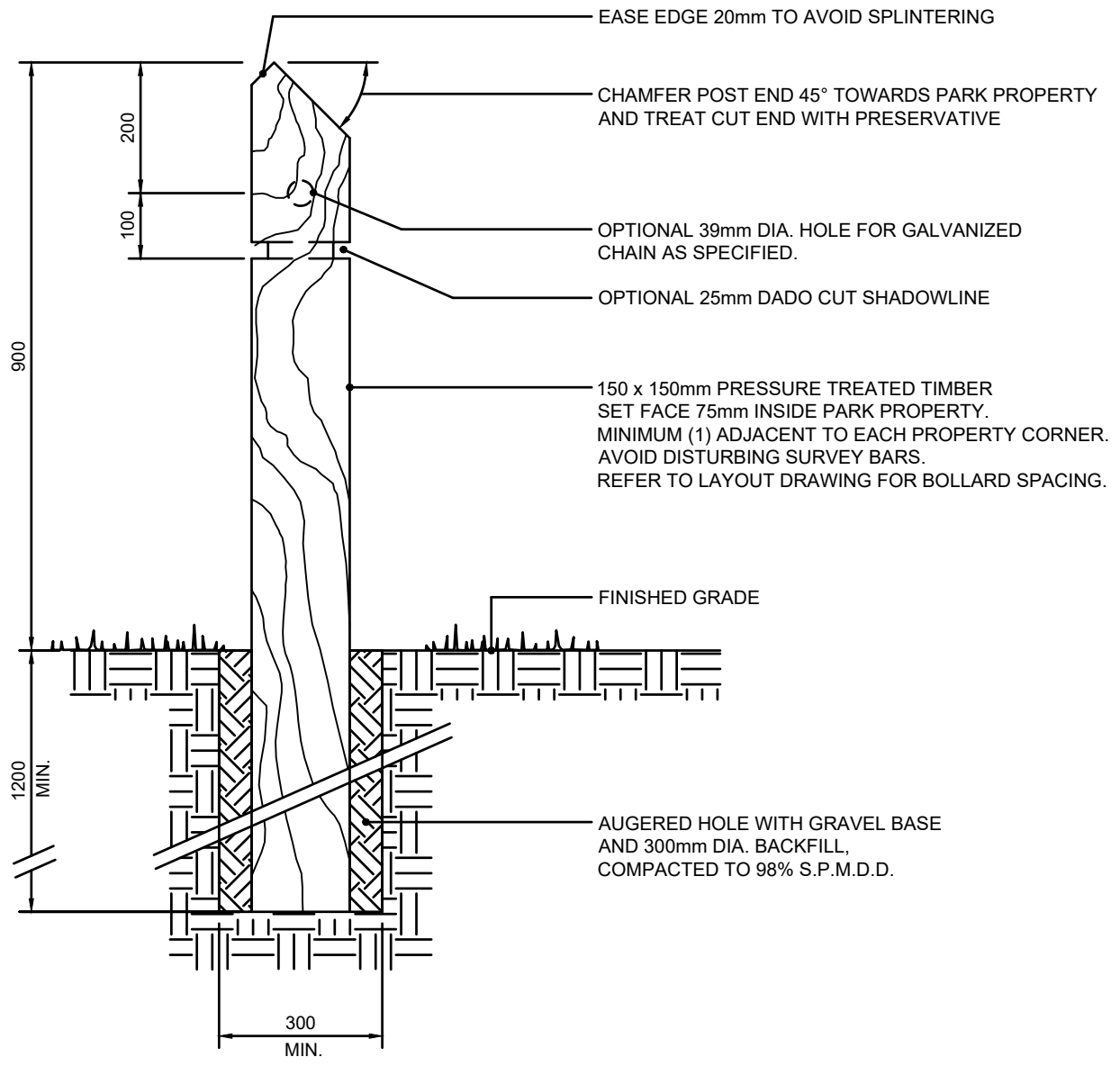
TOWNSHIP OF SEVERN

REMOVABLE BOLLARD

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS

STD. No.

1104



NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

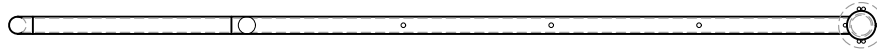
NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



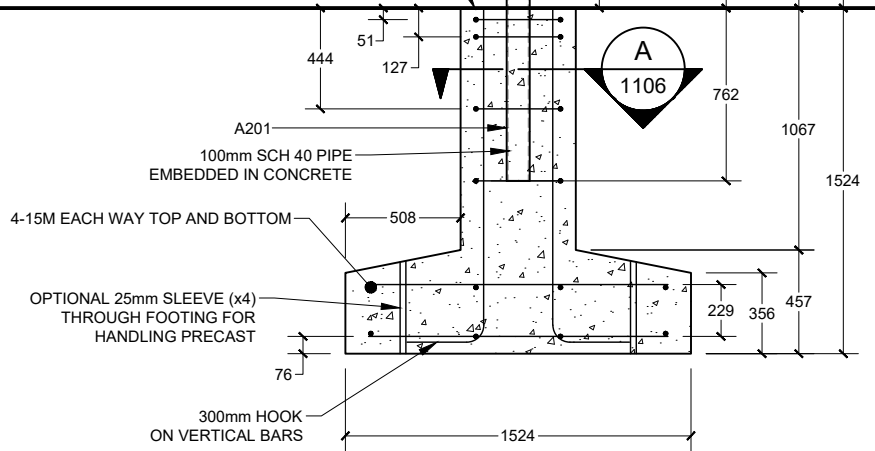
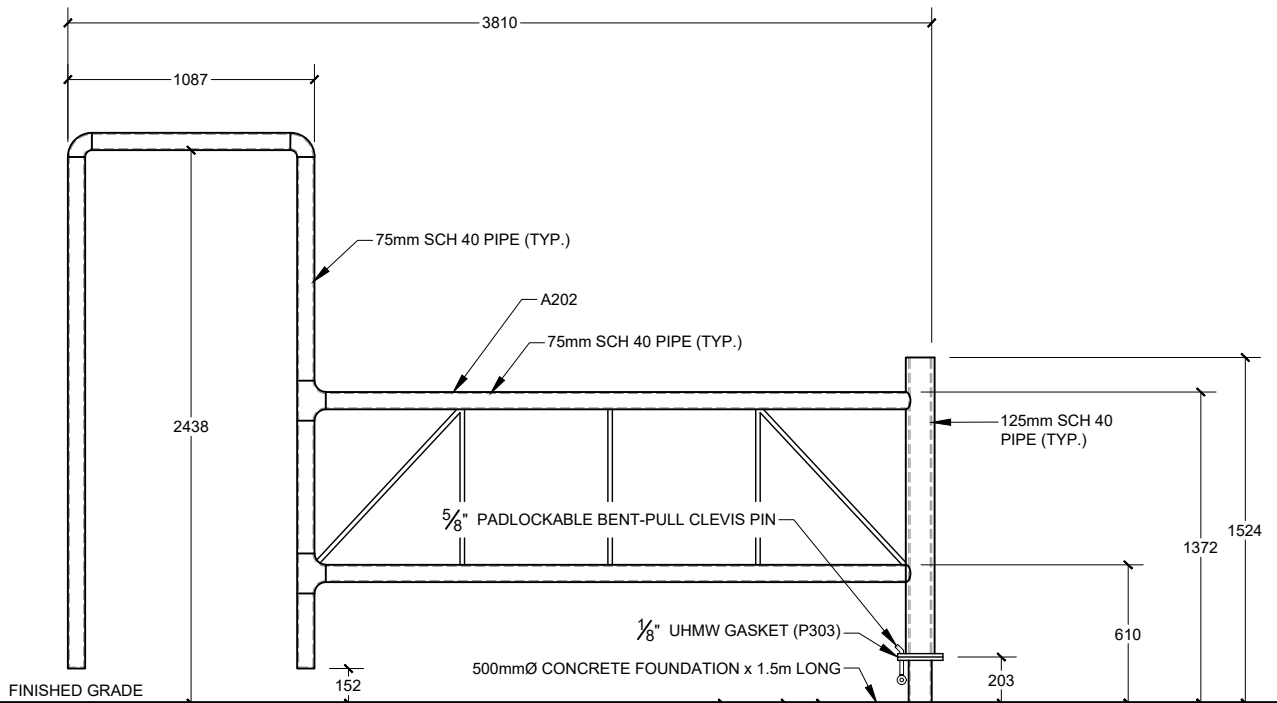
TOWNSHIP OF SEVERN

TIMBER BOLLARD

APR'D:	DATE: 2012
DRAWN:	SCALE: NTS
STD. No.	1105



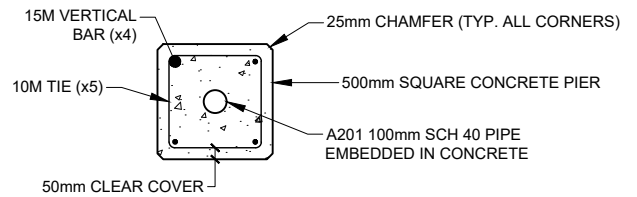
PLAN



PROFILE

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. TRAIL GATE IS DESIGNED FOR A 200 lb (91kg) VERTICAL LOAD LOCATED AT THE CENTRE OF THE WALK THROUGH OPENING.
3. DESIGN CRITERIA:
CAN/CSA S16-14: "LIMIT STATES DESIGN OF STEEL STRUCTURES"
4. STRUCTURAL STEEL SHALL CONFORM TO CSA STANDARD G40.21. ALL ROLLED SECTIONS AND PLATES TO BE GRADE 300W. ALL PIPES TO BE SCHEDULE 40.
5. MINIMUM ALLOWABLE SOIL BEARING CAPACITY TO BE CONFIRMED BY OTHERS.
6. ALL WELDS TO BE COMPLETED BY A CWB CERTIFIED FABRICATOR.
7. ALL WELDS SHALL BE VISUALLY INSPECTED. ELECTRODES TO BE E49XX (E70XX) AS CERTIFIED BY THE CWB AS CONFORMING TO CSA ELECTRODE STANDARDS.



SECTION A

NO.	REVISION	APR'D	DATE
1	2023 UPDATE		DEC/23



TOWNSHIP OF SEVERN

TRAIL GATE

APR'D:	DATE: 2023
DRAWN:	SCALE: NTS

STD. No.

1106