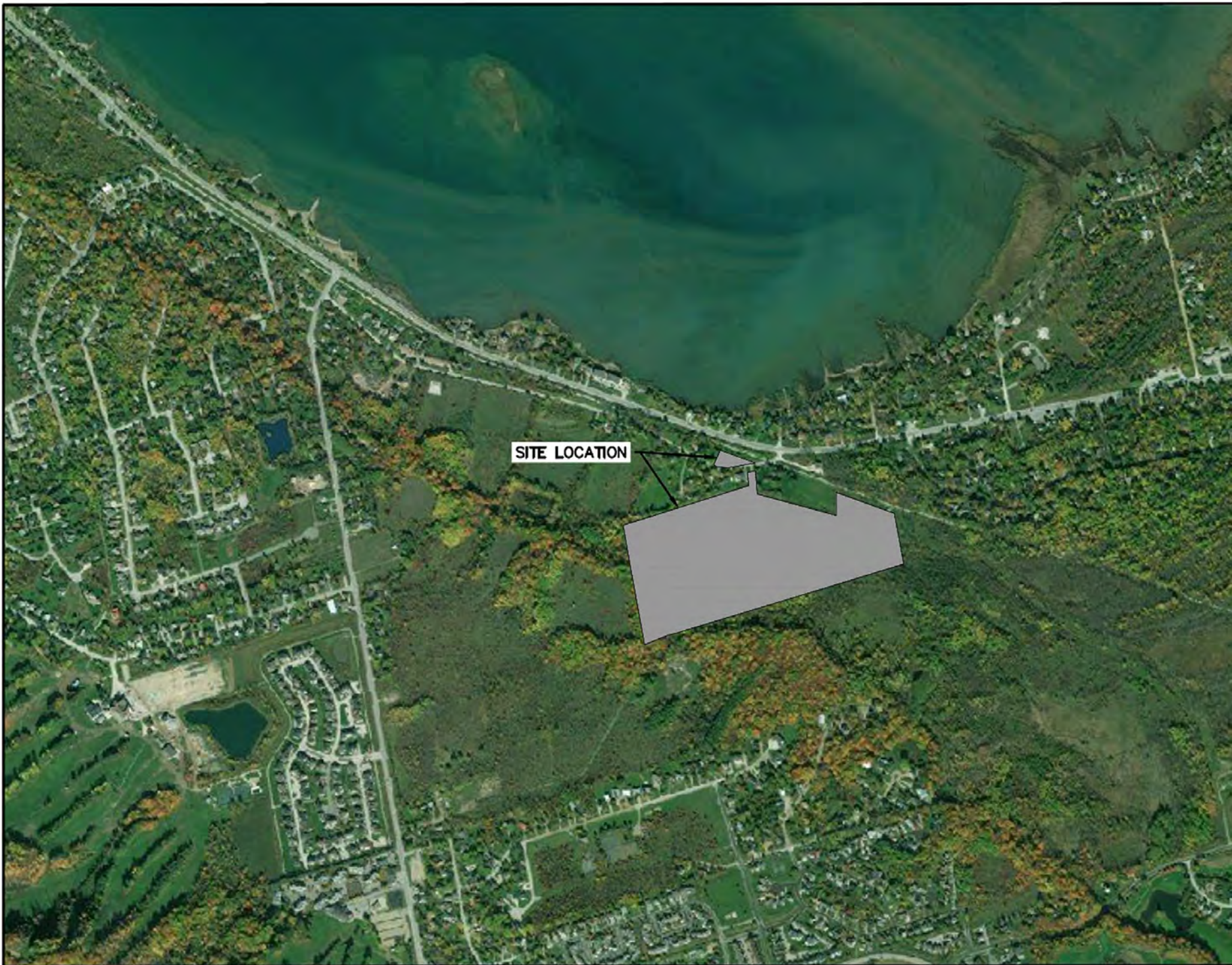


EDEN OAK
TRAILSHEAD
TOWN OF THE BLUE MOUNTAINS
COUNTY OF GREY



MUNICIPALITY

TOWN OF THE BLUE MOUNTAINS
32 MILL STREET
THORNBURY, ON N0H 2P0

DEVELOPER

EDEN OAK
1443 HURONTARIO STREET
MISSISSAUGA, ON L5G 3H5

DEVELOPER'S ENGINEER



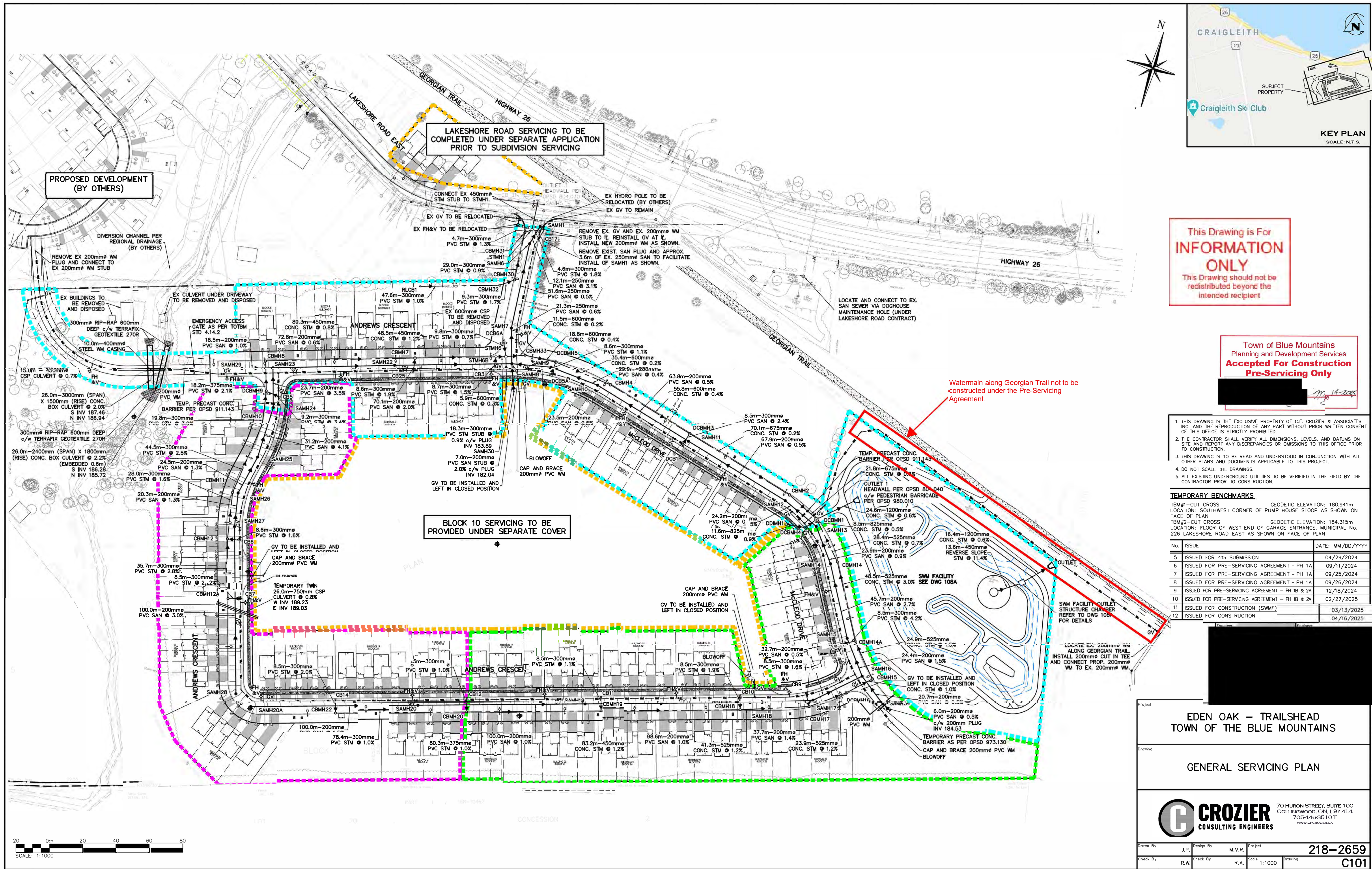
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

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MASTER LEGEND	
EXISTING FEATURES (EX.)	
	EX. CONTOUR
	EX. GRADE
	EX. TREELINE
	EX. WATERCOURSE
	EX. DITCH
	EX. WATERMAIN
	EX. WATER SERVICE
	EX. FIRE HYDRANT & VALVE
	EX. SANITARY SEWER & MANHOLE
	EX. SANITARY FORCEMAIN
	EX. SANITARY SERVICE
	EX. STORM SEWER & MANHOLE
	EX. STORM CATCHBASIN
	EX. STORM DOUBLE CATCHBASIN
	EX. STORM CATCHBASIN MANHOLE
	EX. STORM DOUBLE CATCHBASIN MANHOLE
	EX. GAS MAIN
	EX. BELL LINE
	EX. BELL PEDESTAL
	EX. CABLE TELEVISION PEDESTAL
	EX. HYDRO POLE
	EX. LIGHT STANDARD
	EX. SIGN
	EX. BUILDING
	EX. BENCHMARK NUMBER & LOCATION
	EX. BOREHOLE LOCATION. REFER TO GEOTECHNICAL REPORT PREPARED BY SOIL ENGINEERS LTD., SEPTEMBER 2020.
PROPOSED FEATURES (PR.)	
	PR. PROPERTY LIMITS
	PR. RIGHT OF WAY (ROW)
	PR. BLOCK LIMITS
	PR. LOT LINE
	PR. ELEVATION
	PR. ELEVATION (MATCH EX. ELEVATION)
	PR. SWALE & SLOPE
	PR. DITCH DRAINAGE
	PR. WATERMAIN & VALVE
	PR. GATE VALVE
	PR. WATER SERVICE
	PR. FIRE HYDRANT & VALVE
	PR. WATER VALVE CHAMBER
	PR. WATER QUALITY TESTING STATION
	PR. SANITARY SEWER & MANHOLE
	PR. SANITARY FORCEMAIN
	PR. SANITARY SERVICE
	PR. STORM SEWER & MANHOLE
	PR. CATCHBASIN
	PR. DOUBLE CATCHBASIN
	PR. CATCHBASIN MANHOLE
	PR. DOUBLE CATCHBASIN MANHOLE
	PR. CURB CUT
	PR. CANADA POST COMMUNITY MAIL BOX
	PR. TRANSFORMER
	PR. STREETLIGHT
	PR. STREETLIGHT PEDESTAL
	PR. UTILITY DUCT CROSSING (# DUCTS)
	PR. STOP SIGN
	PR. NAME SIGN
	PR. NO PARKING SIGN
	PR. FENCE
	PR. BUILDING ENVELOPE
	PR. HEAVY DUTY SILT FENCE
	PR. STRAW BALE CHECK FLOW
	PR. ROCK CHECK DAM
	PR. SLOPE (3:1 MAX.)
	PR. TREE PRESERVATION AREA
	PR. TOPSOIL STOCKPILE LOCATION
	HIGH POINT
	LOW POINT
	GRADE BREAK
	SIDEWALK
	PHASE 1A
	PHASE 1B
	PHASE 2A
	PHASE 3
	HATCHED AREAS SUBJECT TO FUTURE AGREEMENT

PROJECT No.: 218-2659
ISSUED FOR CONSTRUCTION



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TEMPORARY BENCHMARKS

BM#1 - CUT CROSS GEODETIC ELEVATION: 180.941m
LOCATION: SOUTHWEST CORNER OF PUMP HOUSE STOOP AS SHOWN ON FACE OF PLAN
BM#2 - CUT CROSS GEODETIC ELEVATION: 184.315m
LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL NO. 226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN

No.	ISSUE	DATE: MM/DD/YYYY
5	ISSUED FOR 4th SUBMISSION	04/29/2024
6	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/11/2024
7	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/25/2024
8	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/26/2024
9	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1B & 2A	12/18/2024
10	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1B & 2A	02/27/2025
11	ISSUED FOR CONSTRUCTION (SWMF)	03/13/2025
12	ISSUED FOR CONSTRUCTION	04/16/2025

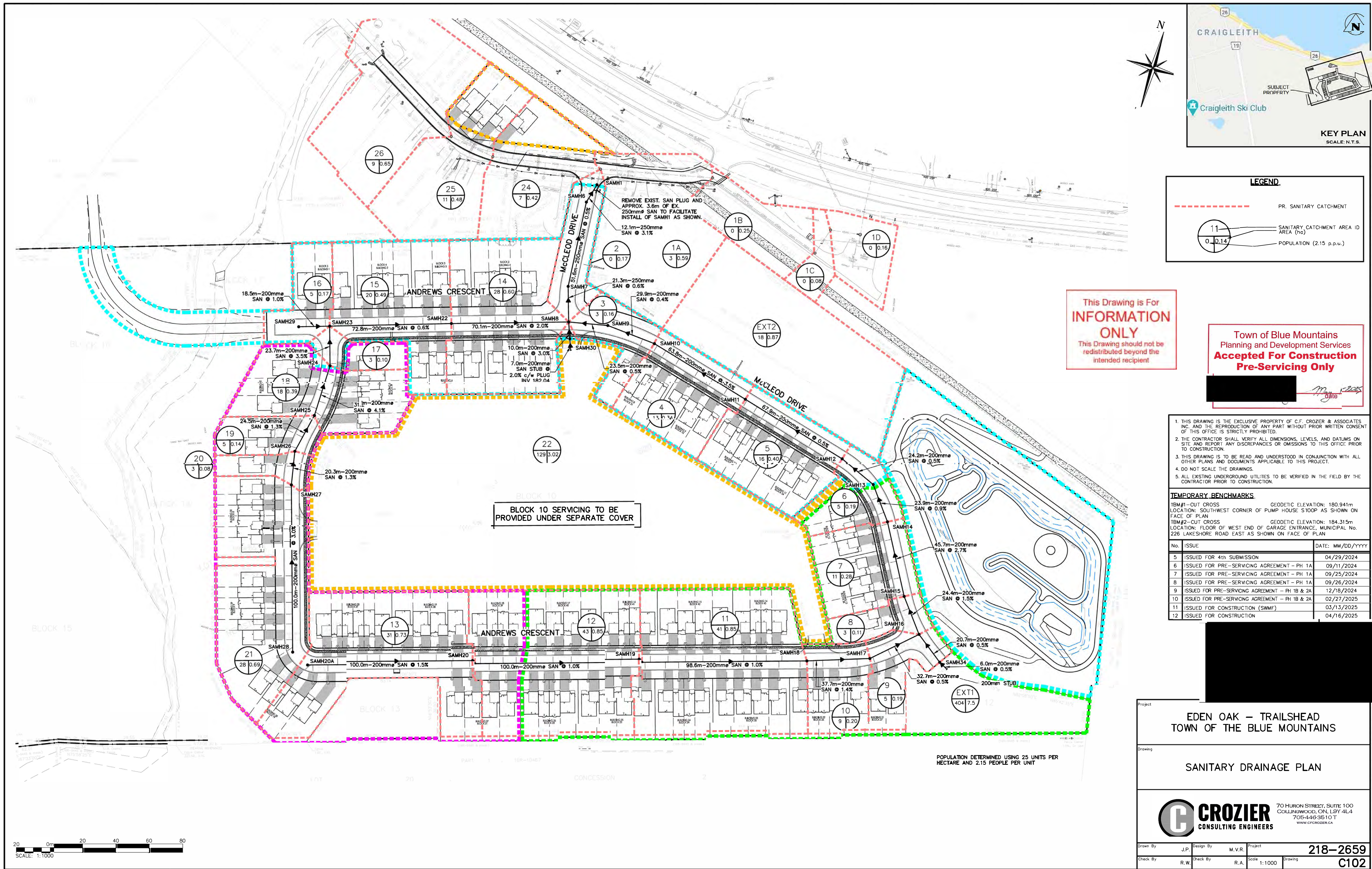
Project: _____ Engineer: _____

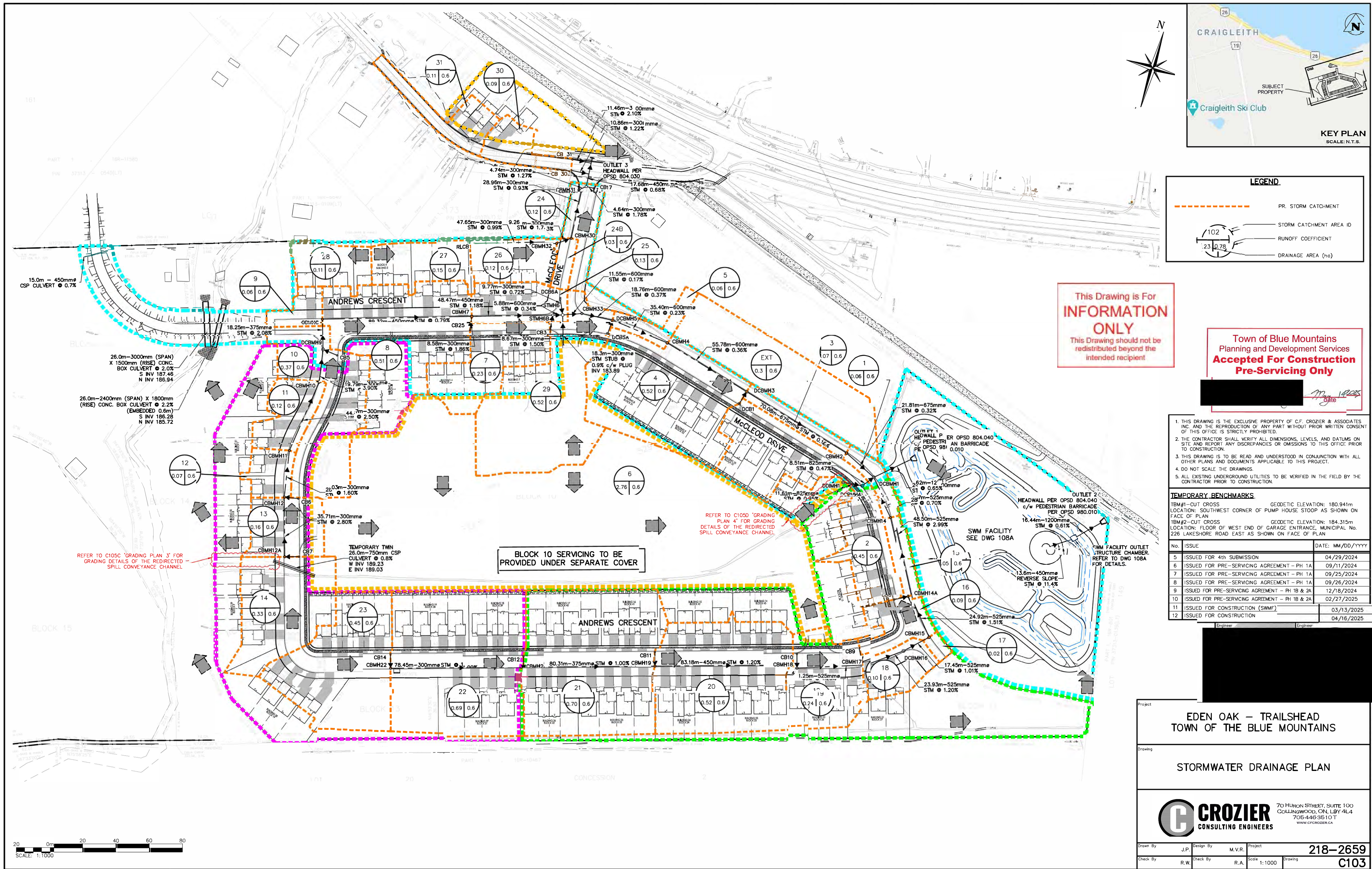
EDEN OAK - TRAILHEAD
TOWN OF THE BLUE MOUNTAINS

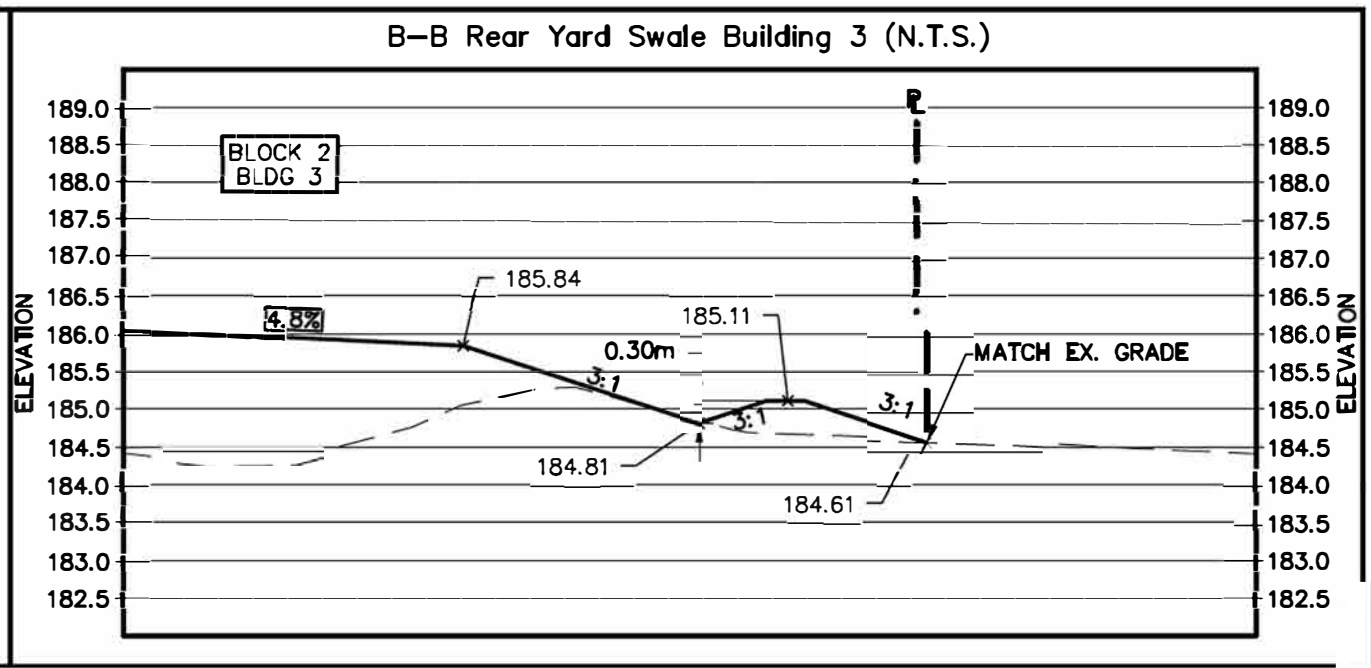
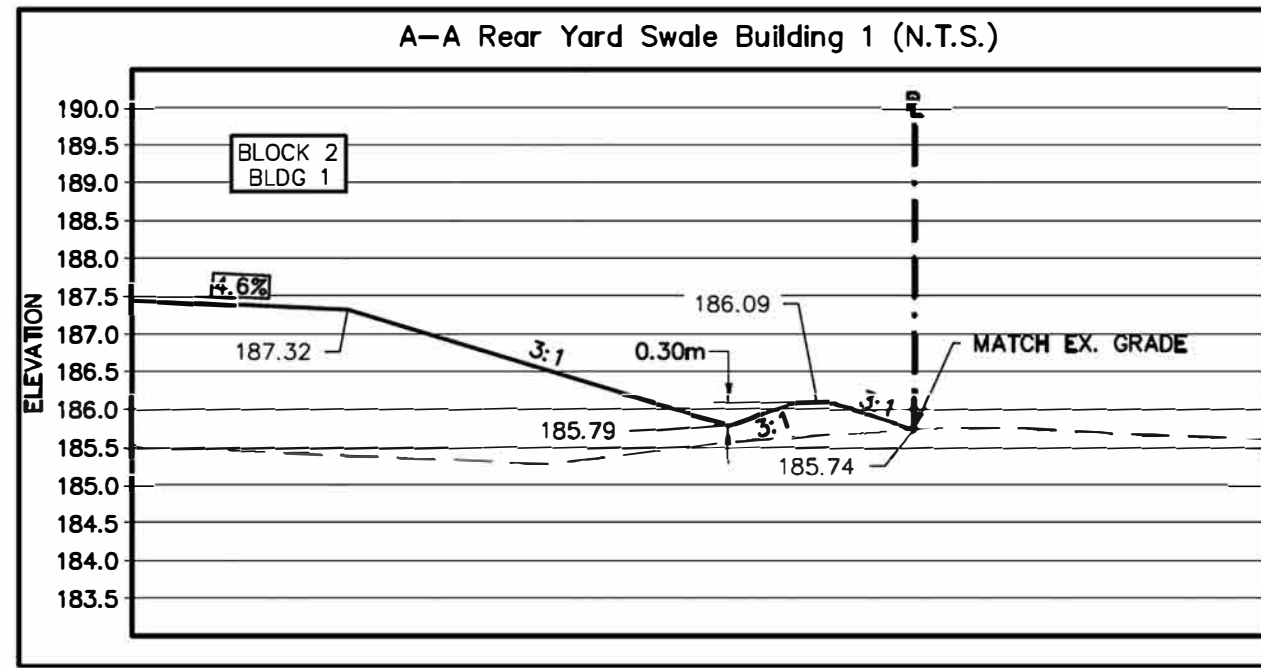
GENERAL SERVICING PLAN

CROZIER
CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

Drawn By: J.P. Design By: M.V.R. Project: 218-2659
Check By: R.W. Check By: R.A. Scale: 1:1000 Drawing: C101

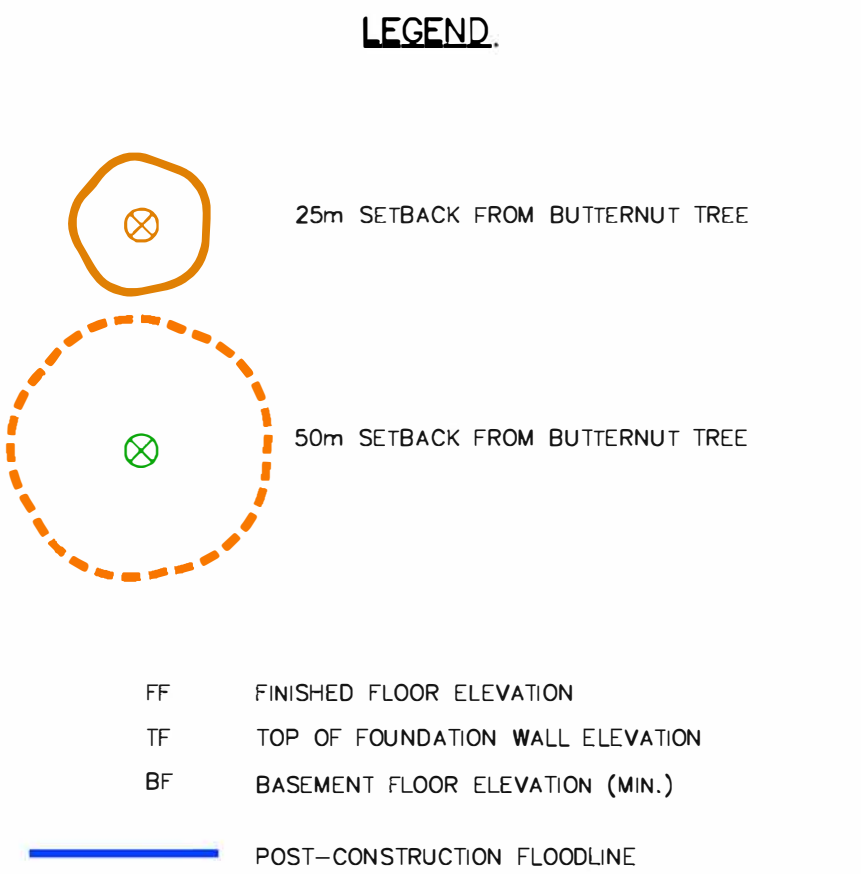
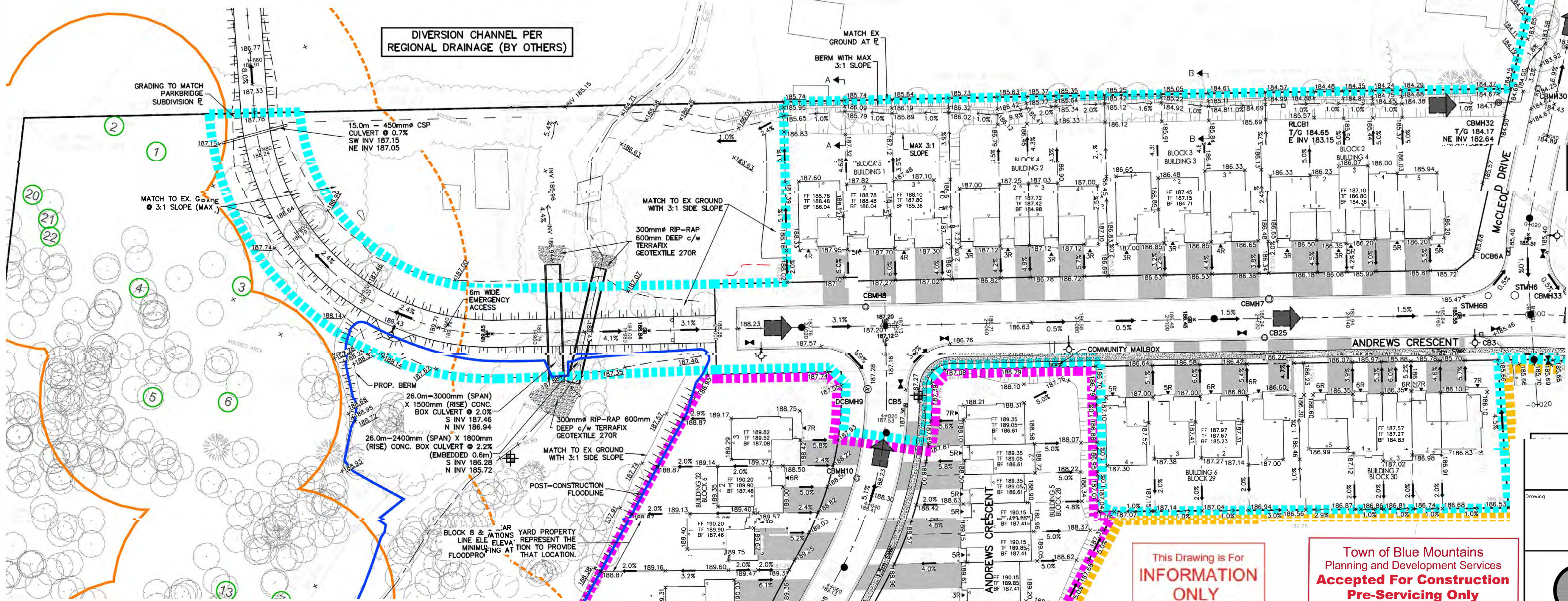






Building Number (Unit)	Minimum BFE (m)	Building Number (Unit)	Minimum BFE (m)
Building 1 (1-2)	185.61	Building 19	189.61
Building 1 (3)	184.86	Building 20	190.13
Building 2	184.81	Building 21	186.06
Building 3	184.56	Building 22	186.61
Building 4	183.96	Building 23	187.06
Building 5 (1-3)	186.61	Building 24	187.41
Building 5 (4-6)	187.36	Building 25	187.86
Building 6	184.61	Building 26	188.26
Building 7	183.86	Building 27	188.91
Building 8	183.00	Building 28	190.91
Building 9	183.50	Building 29 (1)	190.66
Building 10	184.00	Building 29 (2-3)	190.41
Building 11	184.30	Building 29 (4-5)	190.06
Building 12 (1)	184.40	Building 29 (6)	189.56
Building 12 (2-4)	184.44	Building 30 (1-3)	188.91
Building 13 (1-2)	185.11	Building 30 (4-6)	188.36
Building 13 (3-4)	184.70	Building 31	187.71
Building 14	186.91	Building 32 (1-2)	186.96
Building 15	187.36	Building 32 (3)	186.52
Building 16	187.81		
Building 17	188.21		
Building 18	189.56		

NOTE: MINIMUM BASEMENT FLOOR ELEVATIONS DETERMINED BASED ON MINIMUM ALLOWABLE SEPARATION FROM GROUNDWATER, BEDROCK, OR LOWEST ELEVATION TO ALLOW GRAVITY SANITARY SERVICE.



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TEMPORARY BENCHMARKS

TBM#1 - CUT CROSS GEODETIC ELEVATION: 180.941m
LOCATION: SOUTHWEST CORNER OF PUMP HOUSE STOOP AS SHOWN ON FACE OF PLAN

TBM#2 - CUT CROSS GEODETIC ELEVATION: 184.319m
LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL No. 226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN

No.	ISSUE	DATE: MM/DD/YY
5	ISSUED FOR 4th SUBMISSION	04/29/2024
6	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/11/2024
7	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/25/2024
8	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/26/2024
9	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1B & 2A	12/18/2024
10	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1B & 2A	02/27/2025
11	ISSUED FOR CONSTRUCTION (SWMF)	03/13/2025
12	ISSUED FOR CONSTRUCTION	04/16/2025

EDEN OAK - TRAILHEAD
TOWN OF THE BLUE MOUNTAINS

GRADING PLAN 1

CROZIER
CONSULTING ENGINEERS

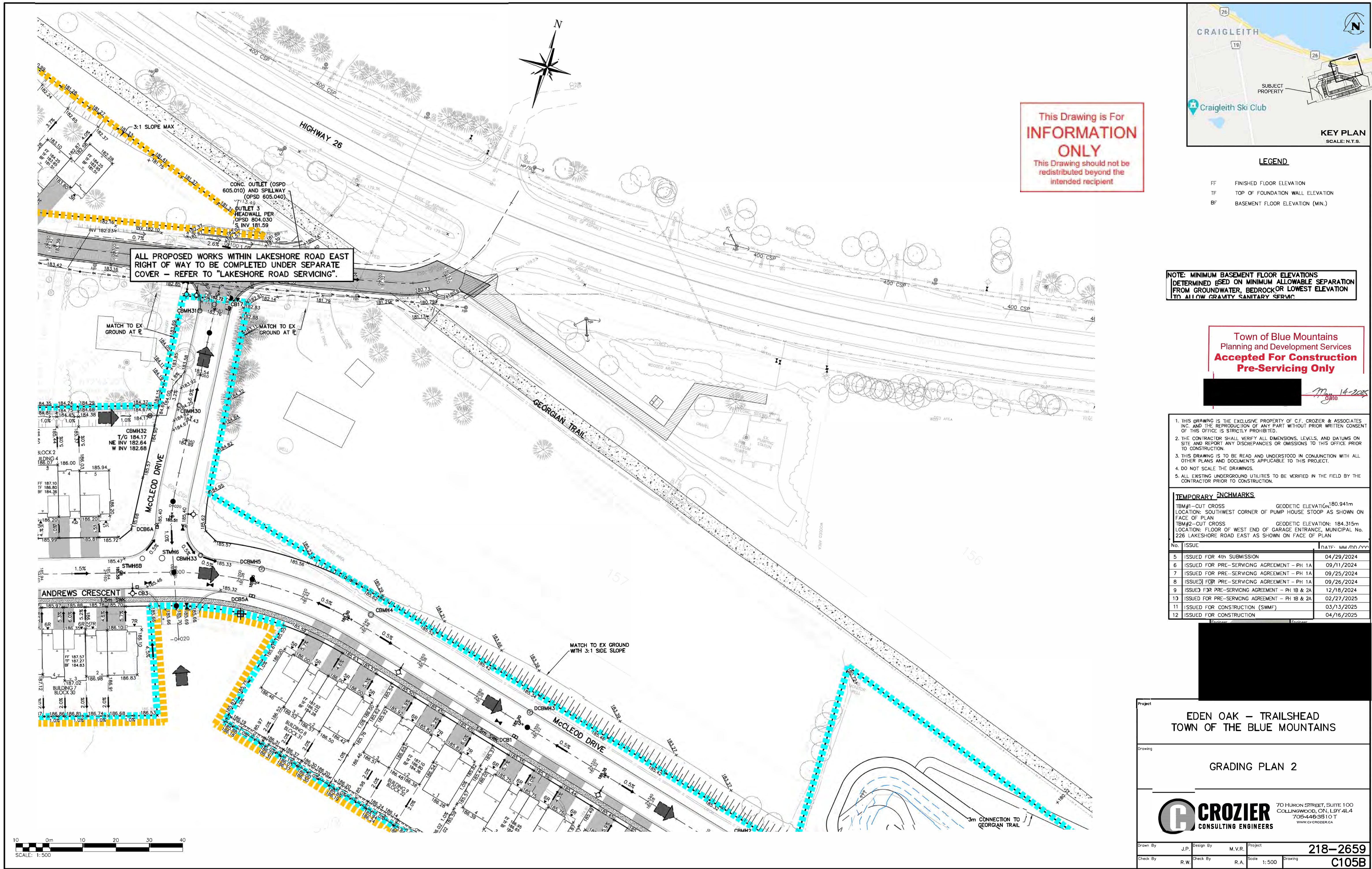
70 HURON STREET, SUITE 100
COLLINGWOOD, ON L9Y 4L4
705-446-3510 T
WWW.CFCROZIER.CA

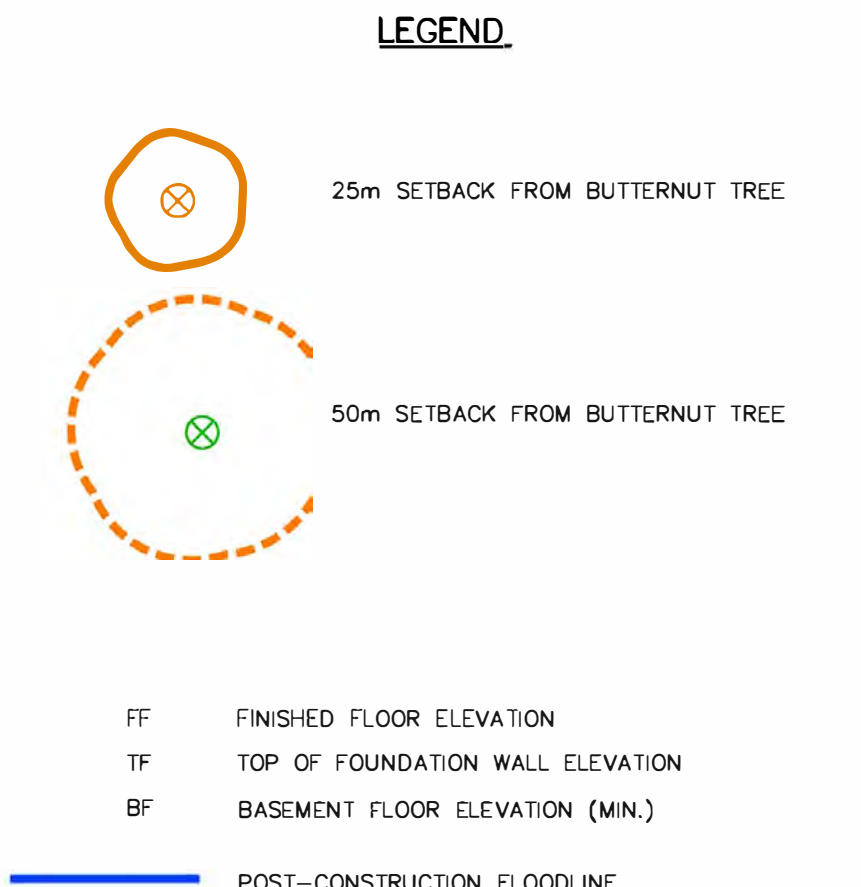
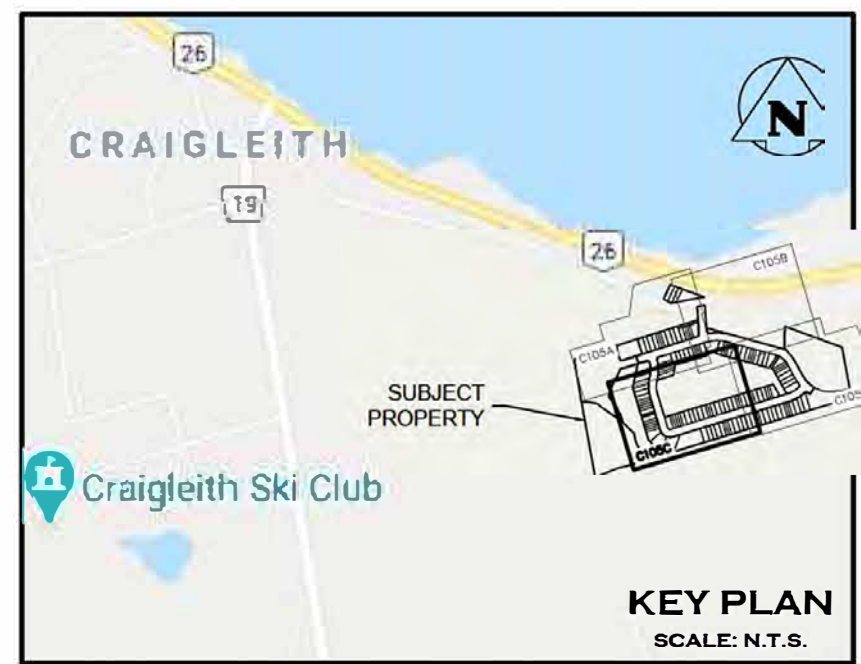
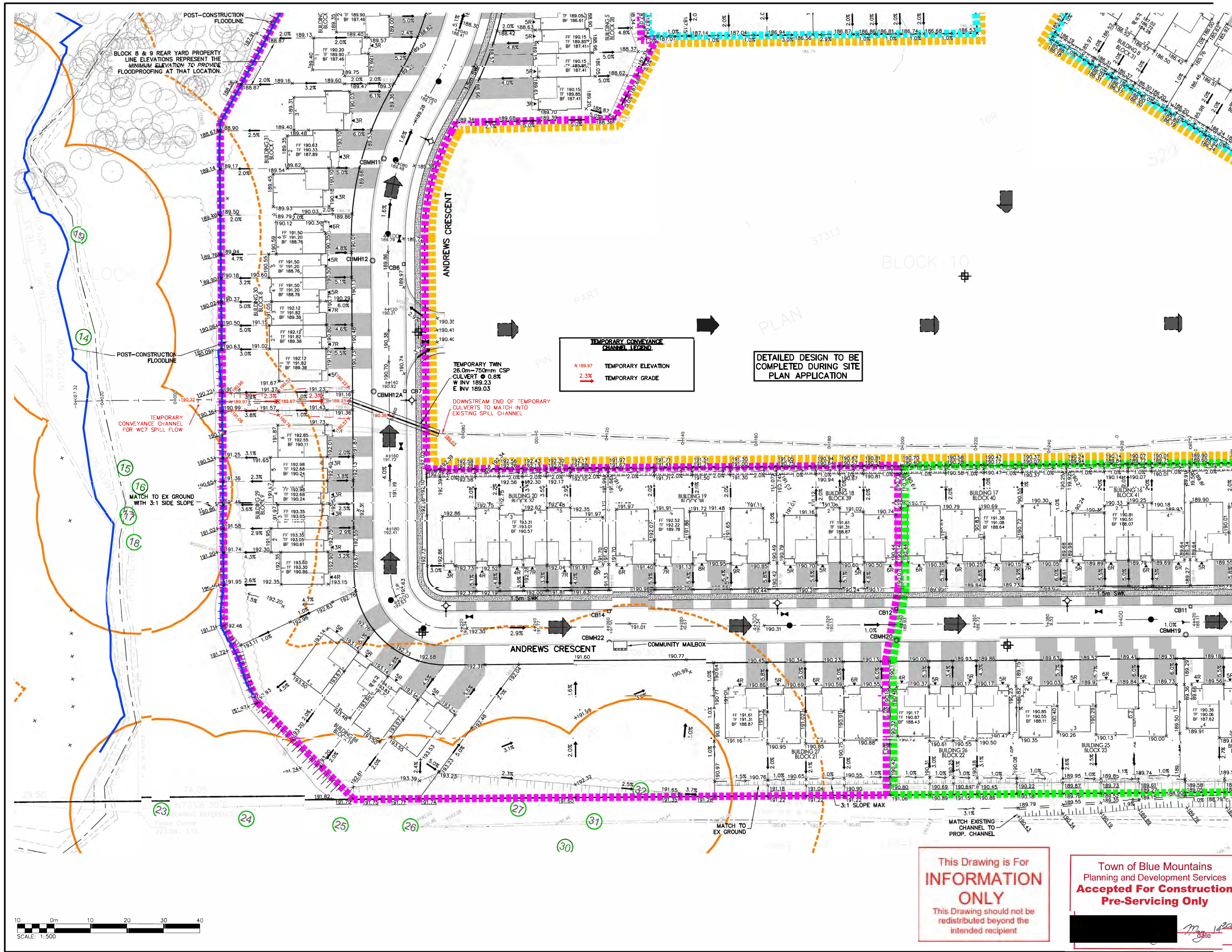
Drawn By: J.P. Design By: M.V.R. Project: 218-2659
Check By: R.W. Check By: R.A. Scale: 1:500 Drawing: C105A

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Mr. [Signature]
Date: 12/20/25





NOTE: MINIMUM BASEMENT FLOOR ELEVATIONS DETERMINED BASED ON MINIMUM ALLOWABLE SEPARATION FROM GROUNDWATER, BEDROCK, OR LOWEST ELEVATION TO ALLOW GRAVITY SANITARY SERVICE.

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TEMPORARY BENCHMARKS

BTM#1-CUT CROSS	GEODETIC ELEVATION: 180.941m
LOCATION: SOUTHWEST CORNER OF PUMP HOUSE STOOP AS SHOWN ON FACE OF PLAN	
BTM#2-CUT CROSS	GEODETIC ELEVATION: 184.315m
LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL No. 226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN	

No.	ISSUE	DATE: MM/DD/YYYY
5	ISSUED FOR 4th SUBMISSION	04/29/2024
6	ISSUED FOR PRE-SERVING AGREEMENT - PH 1A	09/11/2024
7	ISSUED FOR PRE-SERVING AGREEMENT - PH 1A	09/25/2024
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11	ISSUED FOR CONSTRUCTION (SWMF)	03/13/2025
12	ISSUED FOR CONSTRUCTION	04/16/2025

EDEN OAK – TRAILHEAD
TOWN OF THE BLUE MOUNTAINS

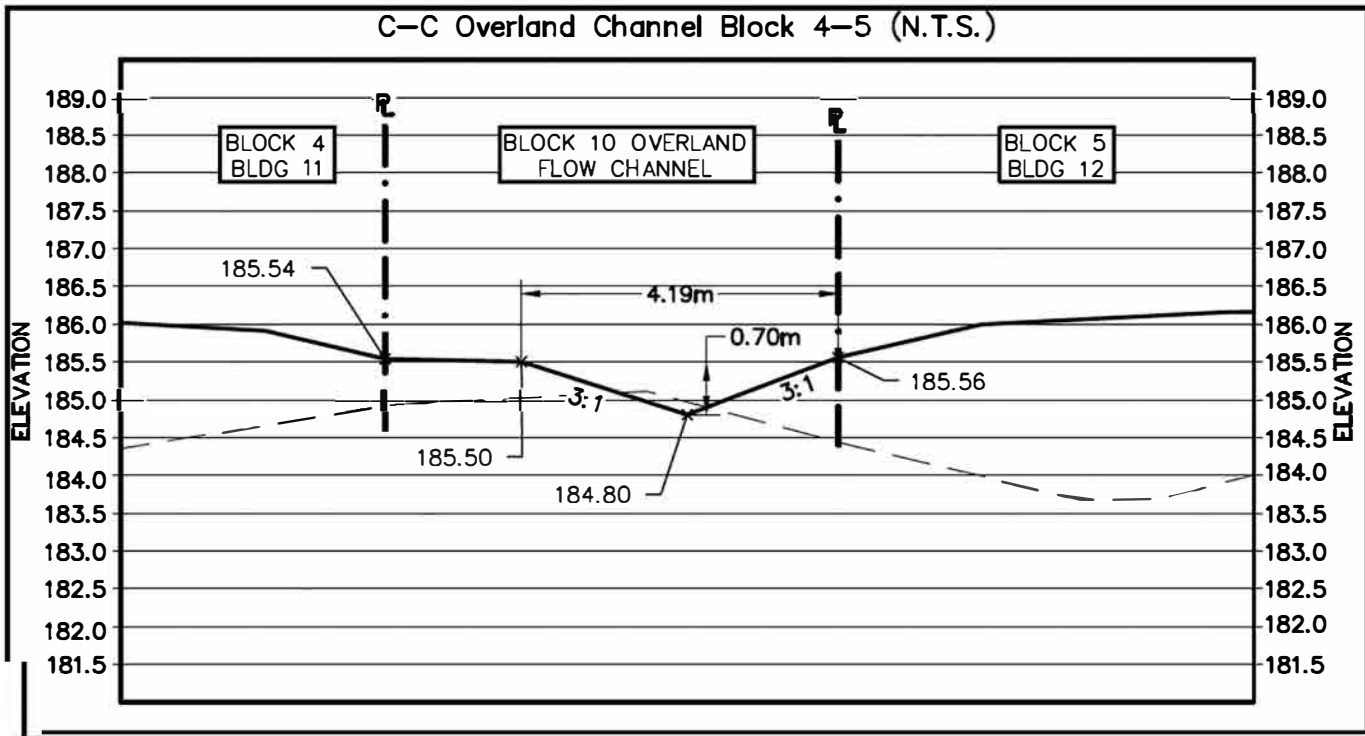
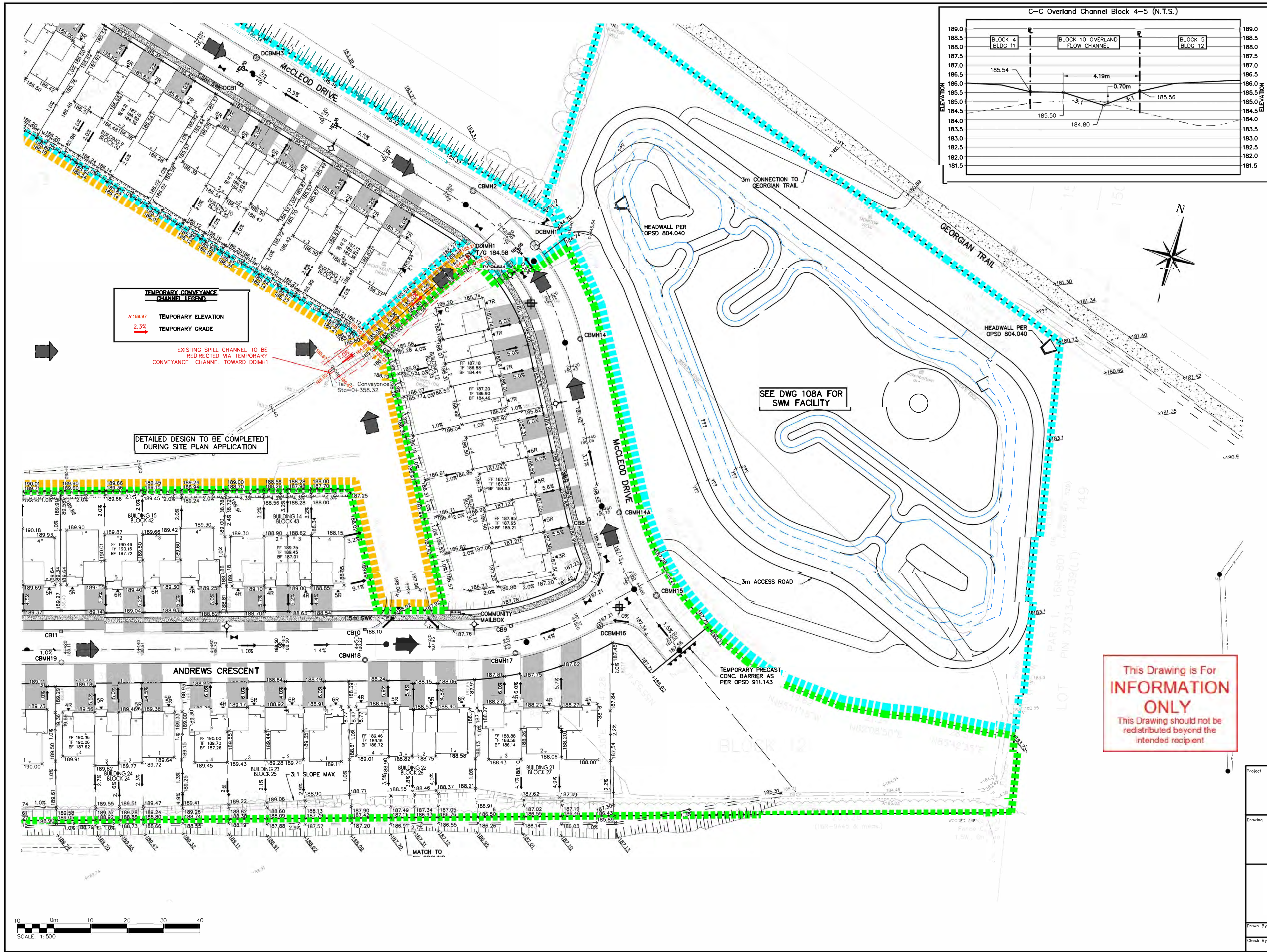
GRADING PLAN 3



Drawn By	J.P.	Design By	M.V.R.	Project	218-2659
Check By	R.W.	Check By	R.A.	Scale	1:500
				Drawing	C105C

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- LEGEND**
- FF FINISHED FLOOR ELEVATION
 - TF TOP OF FOUNDATION WALL ELEVATION
 - BF BASEMENT FLOOR ELEVATION (MIN.)

NOTE: MINIMUM BASEMENT FLOOR ELEVATIONS DETERMINED BASED ON MINIMUM ALLOWABLE SEPARATION FROM GROUNDWATER, BEDROCK, OR LOWEST ELEVATION TO ALLOW GRAVITY SANITARY SERVICE.

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TEMPORARY BENCHMARKS		
TBM#1-CUT CROSS		
LOCATION: SOUTHWEST CORNER OF PUMP HOUSE STOOP AS SHOWN ON FACE OF PLAN		
TBM#2-CUT CROSS		
LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL No. 226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN		
No.	ISSUE	DATE: MM/DD/YYYY
5	ISSUED FOR 4th SUBMISSION	04/29/2024
6	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/11/2024
7	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/25/2024
8	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/26/2024
9	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1B & 2A	12/18/2024
10	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1B & 2A	02/27/2025
11	ISSUED FOR CONSTRUCTION (SWMP)	03/13/2025
12	ISSUED FOR CONSTRUCTION	04/16/2025

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EDEN OAK – TRAILHEAD
TOWN OF THE BLUE MOUNTAINS

GRADING PLAN 4

CROZIER
CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON L9Y 4L4
705-448-3510
WWW.CFCROZIER.CA

Drawn By	J.P.	Design By	M.V.R.	Project	218-2659
Check By	R.W.	Check By	R.A.	Scale	1:500
				Drawing	C105D

 REMOVALS

NOTE:
ALL BACKFILL WITHIN ROW LIMITS TO BE ENGINEERED FILL

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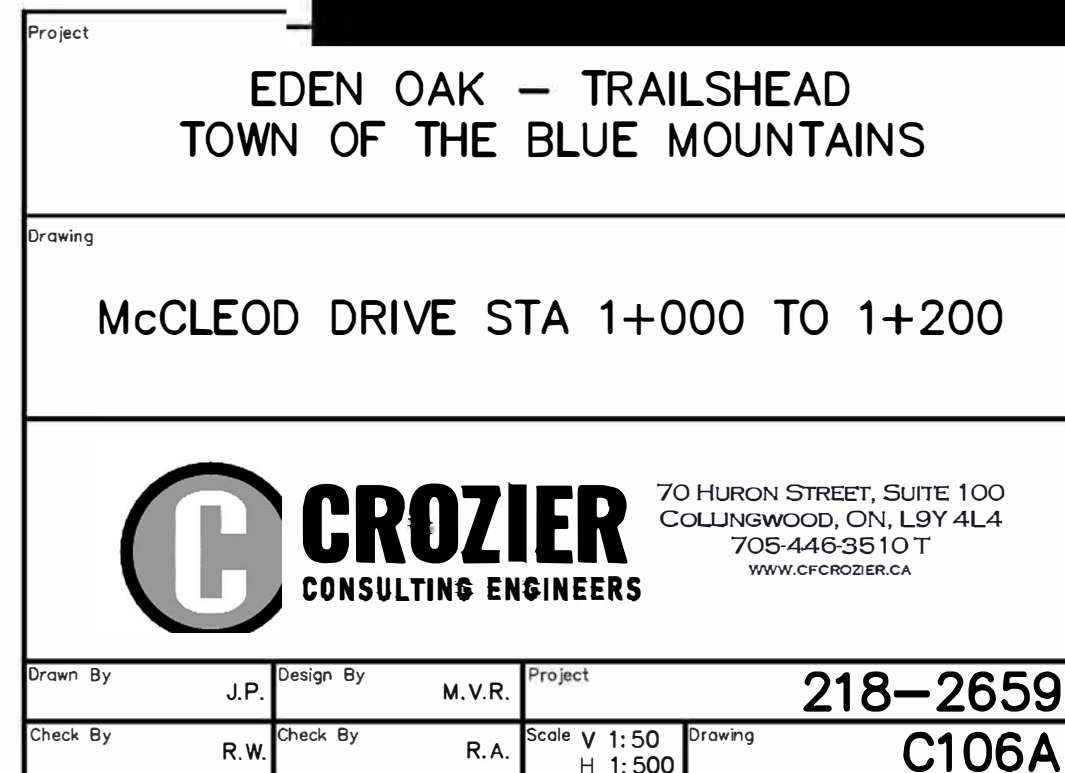
TBM#1-CUT CROSS GEODETIC ELEVATION: 180.941m
LOCATION: SOUTHWEST CORNER OF PUMP HOUSE STOOP AS SHOWN ON
FACE OF PLAN

TBM#2-CUT CROSS GEODETIC ELEVATION: 184.315m
LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL No.
226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN

No.	ISSUE	DATE: MM/DD/YYYY
5	ISSUED FOR 4th SUBMISSION	04/29/2024
6	ISSUED FOR PRE-SERVICING AGREEMENT – PH 1A	09/11/2024
7	ISSUED FOR PRE-SERVICING AGREEMENT – PH 1A	09/25/2024
8	ISSUED FOR PRE-SERVICING AGREEMENT – PH 1A	09/26/2024
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11	ISSUED FOR CONSTRUCTION (SWMF)	03/13/2025
12	ISSUED FOR CONSTRUCTION	04/16/2025

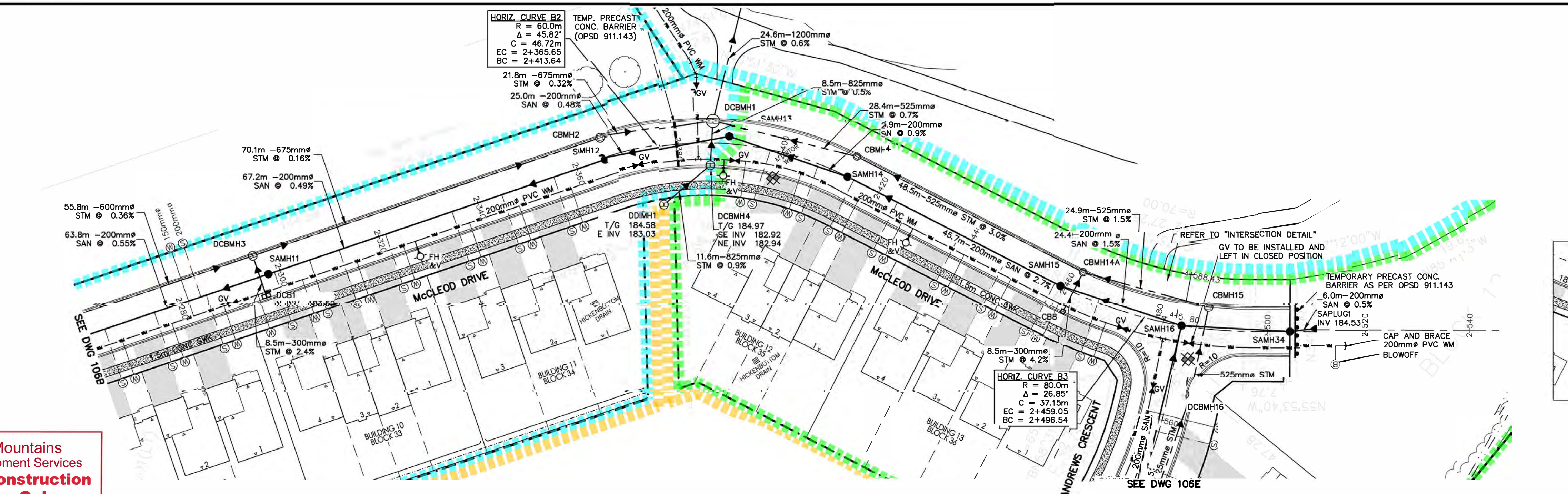
Engineer		Engineer
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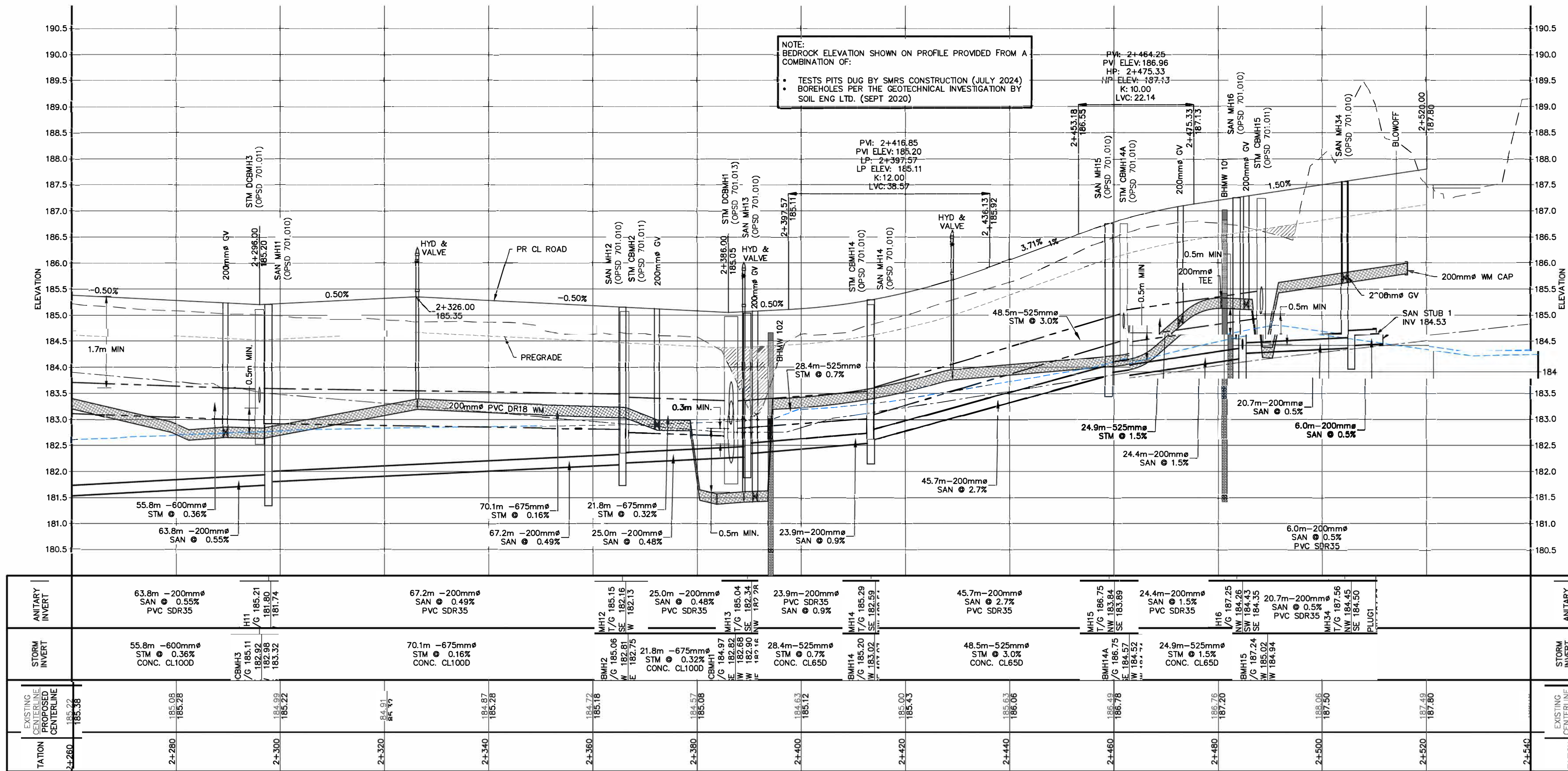


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MM 14-2025
date



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- NOTE: APPROXIMATE ENGINEERED FILL LOCATION
- NOTE: CLAY PLUGS AS PER OPSD 802.095 SHALL BE PLACED IN PIPE TRENCHES (WATERMAIN, SANITARY AND STORM SEWERS) WHERE THE BOTTOM OF TRENCH IS BELOW THE GROUNDWATER ELEVATION.
- NOTE: 0.3m OF CLEARANCE TO BE PROVIDED FROM SEASONALLY HIGH GROUNDWATER TABLE AND BASEMENT FLOOR SLAB PER TOWN ENGINEERING STANDARDS.
- NOTE: ALL BACKFILL WITHIN ROW LIMITS TO BE ENGINEERED FILL
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- TEMPORARY BENCHMARKS**
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LOCATION: SOUTHWEST CORNER OF PUMP HOUSE STOOP AS SHOWN ON FACE OF PLAN
- BM2-CUT CROSS GEODETIC ELEVATION: 184.315m
LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL No. 226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN
- | No. | ISSUE | DATE: MM/DD/YYYY |
|-----|---|------------------|
| 5 | ISSUED FOR 4th SUBMISSION | 04/29/2024 |
| 6 | ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A | 09/11/2024 |
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| 9 | ISSUED FOR PRE-SERVICING AGREEMENT - PH 1B & 2A | 12/18/2024 |
| 10 | ISSUED FOR PRE-SERVICING AGREEMENT - PH 1B & 2A | 02/27/2025 |
| 11 | ISSUED FOR CONSTRUCTION (SWMF) | 03/13/2025 |
| 12 | ISSUED FOR CONSTRUCTION | 04/16/2025 |

BOREHOLE LEGEND

[Symbol]	TOPSOIL
[Symbol]	EARTH FILL
[Symbol]	SILT SAND TILL
[Symbol]	SANDY SILT TILL
[Symbol]	BEDROCK
[Symbol]	SILT
[Symbol]	CLAYEY SILT TILL
[Symbol]	SILT TILL
[Symbol]	SAND

Project: **EDEN OAK - TRAILHEAD**
TOWN OF THE BLUE MOUNTAINS

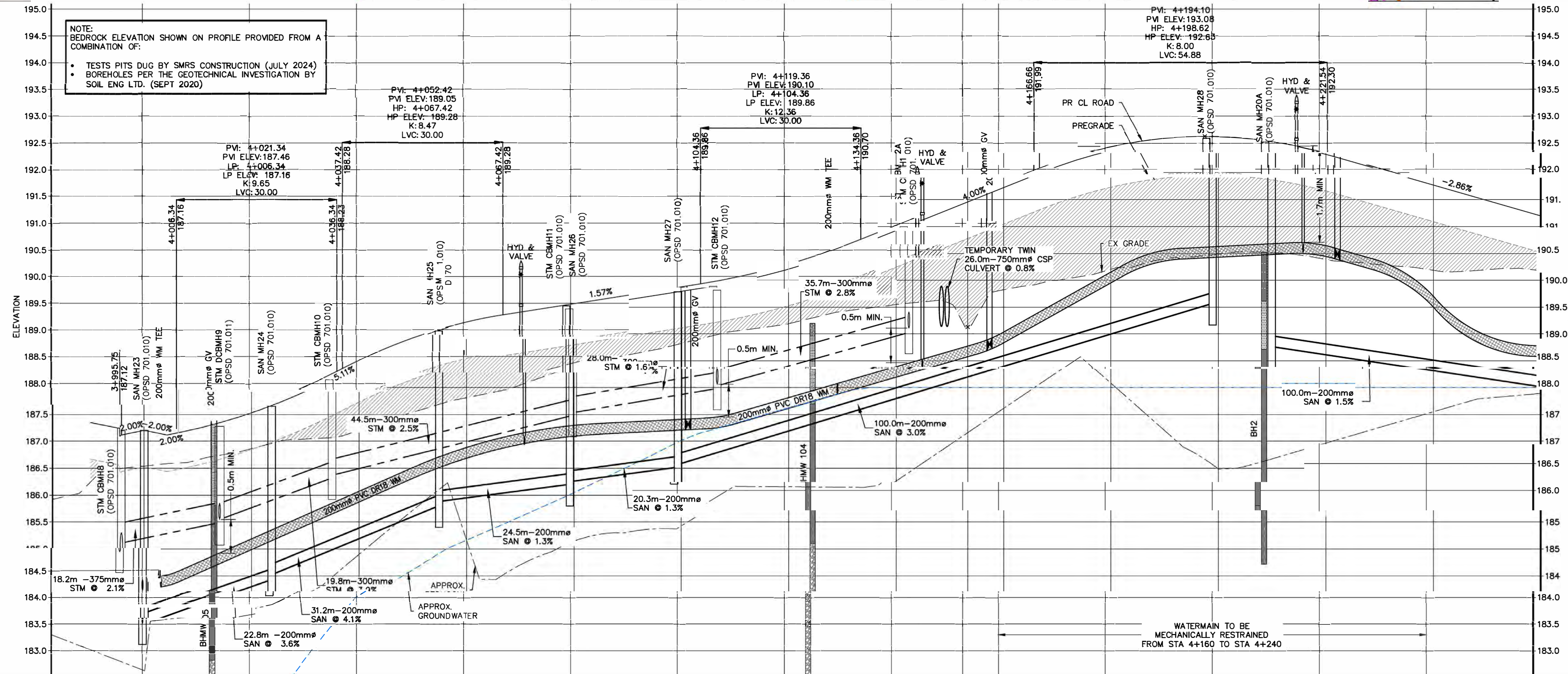
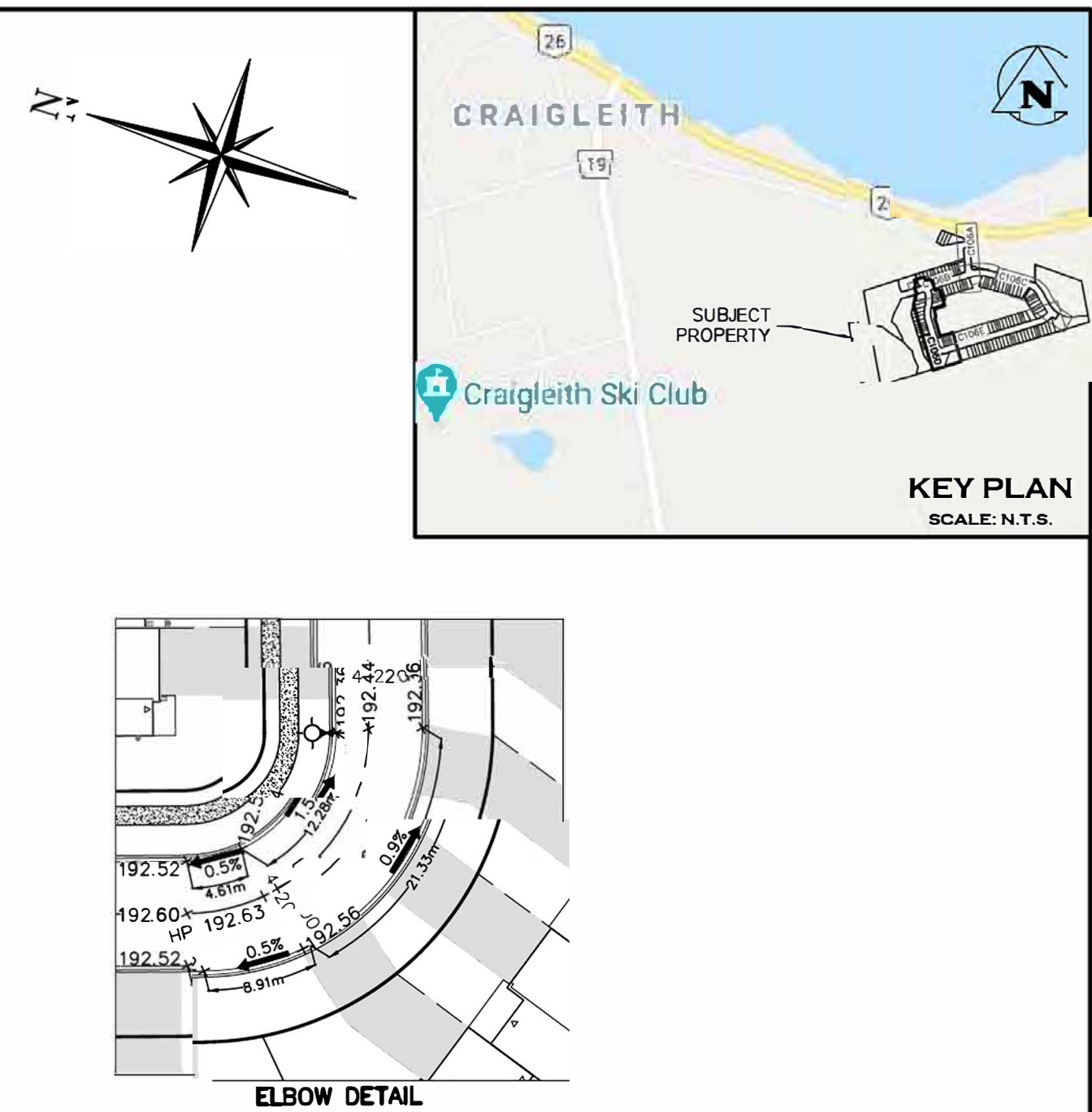
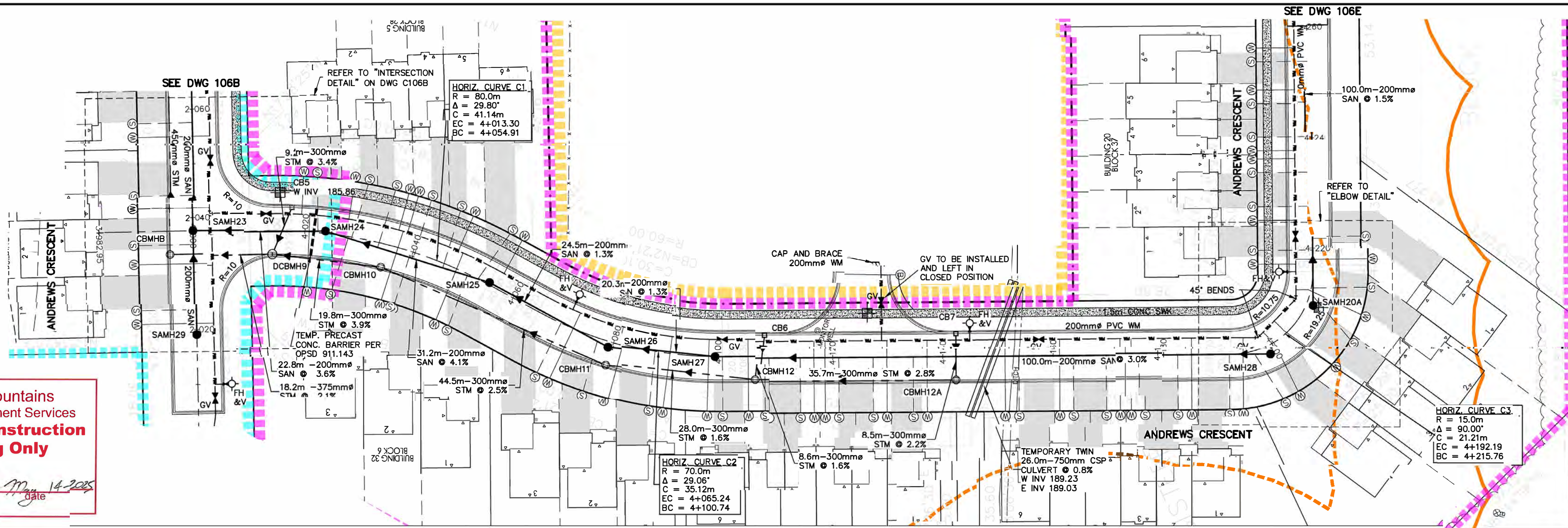
Drawing: **MCCLEOD DRIVE STA 2+260 TO 2+540**

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON L9Y 4L4
705-446-3510
WWW.CFCROZIER.CA

Drawn By: J.P. Design By: M.V.R. Project: **218-2659**
Check By: R.W. Check By: R.A. Scale: V 1:50 H 1:500 Drawing: **C106C**

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intended recipient



STATION	EXISTING ELEVATION	PROPOSED ELEVATION	ANITARY INVERT	FORM INVERT	STATION
4+000	187.20	187.20	187.20 22.8m - 200mm SAN @ 3.6% PVC SDR35	187.20 22.8m - 200mm SAN @ 3.6% PVC SDR35	4+000
4+020	186.87	186.87	186.87 19.8m - 300mm STM @ 3.9% PVC SDR35	186.87 19.8m - 300mm STM @ 3.9% PVC SDR35	4+020
4+040	187.20	187.20	187.20 31.2m - 200mm SAN @ 4.1% PVC SDR35	187.20 31.2m - 200mm SAN @ 4.1% PVC SDR35	4+040
4+060	187.81	187.81	187.81 44.5m - 300mm STM @ 2.5% PVC SDR35	187.81 44.5m - 300mm STM @ 2.5% PVC SDR35	4+060
4+080	188.37	188.37	188.37 20.3m - 200mm SAN @ 1.3% PVC SDR35	188.37 20.3m - 200mm SAN @ 1.3% PVC SDR35	4+080
4+100	188.82	188.82	188.82 28.0m - 300mm STM @ 1.6% PVC SDR35	188.82 28.0m - 300mm STM @ 1.6% PVC SDR35	4+100
4+120	189.19	189.19	189.19 35.7m - 300mm STM @ 2.8% PVC SDR35	189.19 35.7m - 300mm STM @ 2.8% PVC SDR35	4+120
4+140	189.55	189.55	189.55 100.0m - 200mm SAN @ 3.0% PVC SDR35	189.55 100.0m - 200mm SAN @ 3.0% PVC SDR35	4+140
4+160	189.82	189.82	189.82 100.0m - 200mm SAN @ 1.5% PVC SDR35	189.82 100.0m - 200mm SAN @ 1.5% PVC SDR35	4+160
4+180	190.20	190.20	190.20 100.0m - 200mm SAN @ 1.5% PVC SDR35	190.20 100.0m - 200mm SAN @ 1.5% PVC SDR35	4+180
4+200	190.45	190.45	190.45 100.0m - 200mm SAN @ 1.5% PVC SDR35	190.45 100.0m - 200mm SAN @ 1.5% PVC SDR35	4+200
4+220	190.39	190.39	190.39 100.0m - 200mm SAN @ 1.5% PVC SDR35	190.39 100.0m - 200mm SAN @ 1.5% PVC SDR35	4+220
4+240	190.18	190.18	190.18 100.0m - 200mm SAN @ 1.5% PVC SDR35	190.18 100.0m - 200mm SAN @ 1.5% PVC SDR35	4+240
4+260	190.18	190.18	190.18 100.0m - 200mm SAN @ 1.5% PVC SDR35	190.18 100.0m - 200mm SAN @ 1.5% PVC SDR35	4+260

BOREHOLE LEGEND	
TOPSOIL	
EARTH FILL	
SILT SAND TILL	
SANDY SILT TILL	
BEDROCK	
SILT	
CLAYEY SILT TILL	
SILT TILL	
SAND	

Project: EDEN OAK - TRAILHEAD
TOWN OF THE BLUE MOUNTAINS

Drawing: ANDREWS CRESCENT STA 4+000 TO 4+260

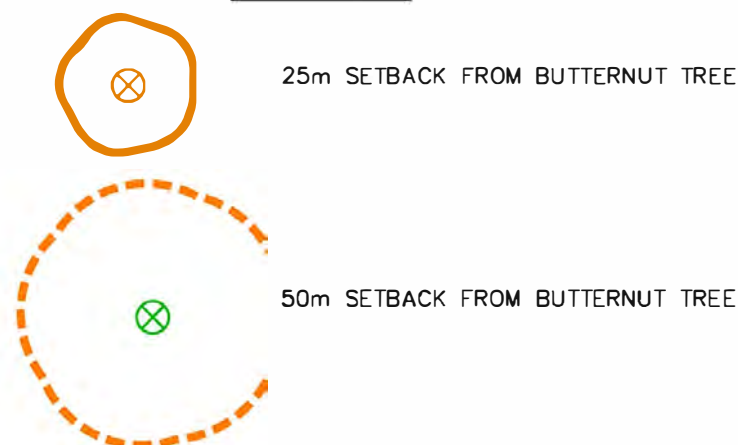
CROZIER
CONSULTING ENGINEERS

70 HURON STREET, SUITE 100
COLLINGWOOD, ON. L9Y 4L4
705-448-3510
WWW.CFCROZIER.CA

Drawn By: J.P. Design By: M.V.R. Project: 218-2659
Check By: R.W. Check By: R.A. Scale: V 1:50 H 1:500 Drawing: C106D

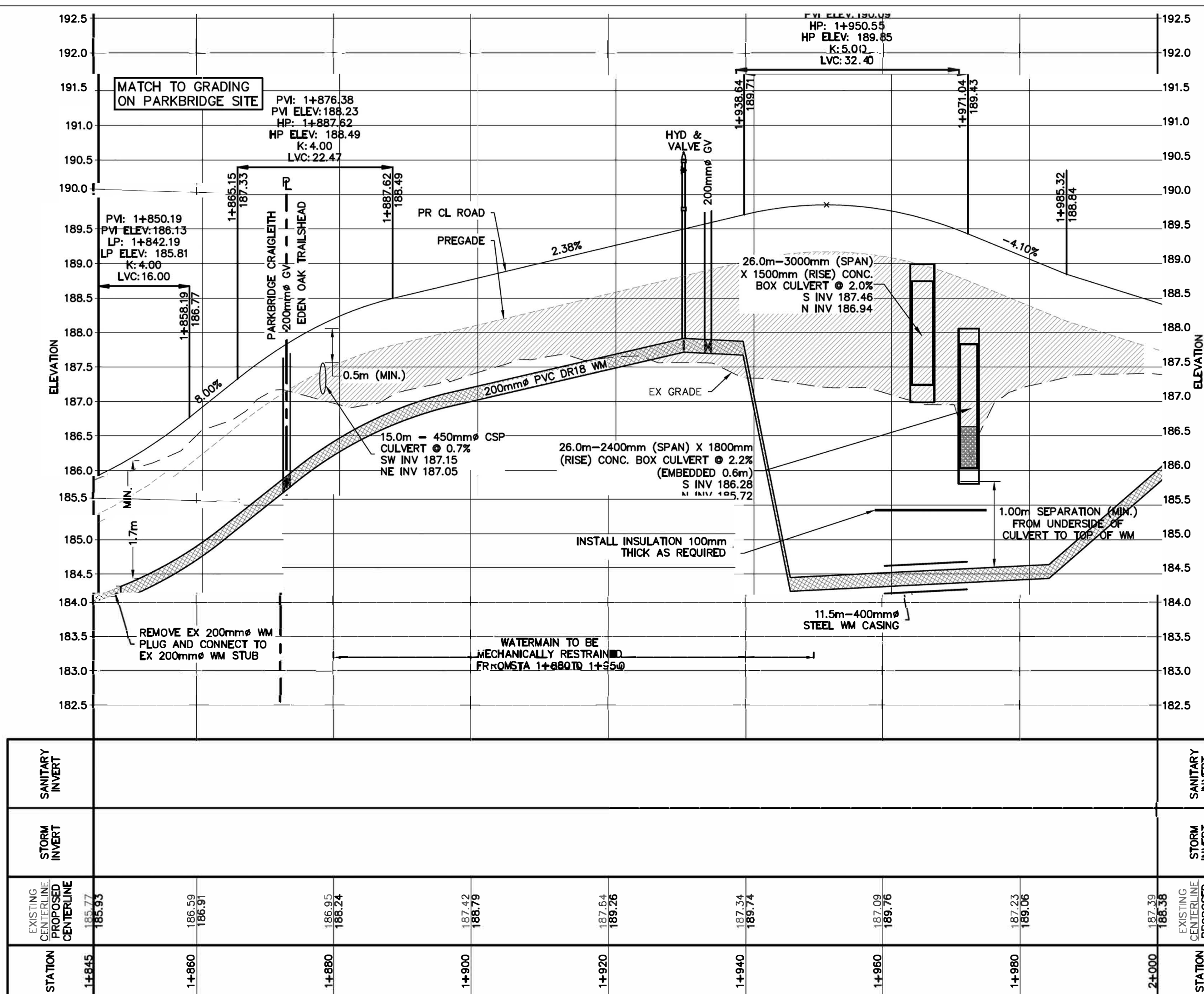
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LEGEND



NOTE:
ALL BACKFILL WITHIN ROW LIMITS TO BE ENGINEERED FILL

NOTE:
CLAY PLUGS AS PER OPSD 802.095 SHALL BE PLACED IN PIPE TRENCHES (WATERMAIN, SANITARY AND STORM SEWERS) WHERE THE BOTTOM OF TRENCH IS BELOW THE GROUNDWATER ELEVATION.

 APPROXIMATE ENGINEERED FILL LOCATION

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. GROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.
3. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT.
4. DO NOT SCALE THE DRAWINGS.
5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

TEMPORARY BENCHMARKS

TBM#1-CUT CROSS GEODETIC ELEVATION: 180.941m
LOCATION: SOUTHWEST CORNER OF PUMP HOUSE STOOP AS SHOWN ON
FACE OF PLAN

TBM#2-CUT CROSS GEODETIC ELEVATION: 184.315m
LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL No.
226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN

No.	ISSUE	DATE: MM/DD/YYYY
5	ISSUED FOR 4th SUBMISSION	04/29/2024
6	ISSUED FOR PRE-SERVICING AGREEMENT – PH 1A	09/11/2024
7	ISSUED FOR PRE-SERVICING AGREEMENT – PH 1A	09/25/2024
8	ISSUED FOR PRE-SERVICING AGREEMENT – PH 1A	09/26/2024
9	ISSUED FOR PRE-SERVICING AGREEMENT – PH 1B & 2A	12/18/2024
10	ISSUED FOR PRE-SERVICING AGREEMENT – PH 1B & 2A	02/27/2025
11	ISSUED FOR CONSTRUCTION (SWMF)	03/13/2025
12	ISSUED FOR CONSTRUCTION	04/16/2025

EDEN OAK – TRAILSHED
TOWN OF THE BLUE MOUNTAINS

Drawing

EMERGENCY ACCESS STA 1+845 TO 2+000



70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510 T

Drawn By	J.P.	Design By	M.V.R.	Project	218-2659
Check By	R.W.	Check By	R.A.	Scale V 1:50 H 1:500	Drawing C106F

Town of Blue Mountains
Planning and Development Services
**Accepted For Construction
Pre-Servicing Only**

GENERAL

1. ALL EXISTING UNDERGROUND UTILITIES AND SERVICES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. ANY SITE ILLUMINATION TO BE DIRECTED DOWNWARD AND INTERNAL TO SITE ONLY.
3. DETAILS ON PROPOSED LANDSCAPE FEATURES, SITE TREATMENTS ARE PREPARED BY LANDSCAPE ARCHITECT.
4. ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE TOWN PRIOR TO ANY WORKS COMPLETED WITHIN THE MUNICIPAL RIGHT OF WAY (ROW).
5. ALL BOULEVARDS & DISTURBED AREAS ARE TO BE RESTORED TO EXISTING CONDITIONS OR BETTER, 100mm TOPSOIL & SEED UNLESS OTHERWISE NOTED.
6. CLEAR STONE WRAPPED IN FILTER CLOTH CAN BE SUBSTITUTED FOR BEDDING MATERIAL IF APPROVED BY THE GEOTECHNICAL ENGINEER.
7. ALL PROPERTY BARS TO BE PROTECTED DURING CONSTRUCTION. BARS ARE TO BE PLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF DAMAGED OR REMOVED.
8. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS-517 & 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING M.E.P. PERMIT IF REQUIRED.
9. ALL RIP-RAP/GABION MATTRESSES TO BE PLACED UPON FILTER CLOTH.
10. ALL ROCK EXCAVATION TO BE CARRIED OUT PER OPSS-206.
11. SIGNAGE TO BE INSTALLED PER TOWN STANDARDS. STREET SIGNS AND STOP SIGNS TO BE INSTALLED ON SEPARATE POSTS.
12. BASEMENT FLOOR SLABS MUST BE A MINIMUM OF 0.5m ABOVE FINISHED GRADE.
13. PER GEOTECHNICAL RECOMMENDATIONS, WHERE THE BOTTOM OF PIPE TRENCH (STORM, SANITARY AND WATERMAIN) IS BELOW THE WATER TABLE CLAY PLUGS AS PER OPSD 802.095 SHALL BE PLACED IN TRENCHES AT 50m INTERVALS ALONG THE FULL LENGTH OF THE TRENCH. THE CLAY PLUGS SHALL BE 1.0m THICK MEASURED ALONG THE PIPE, AND SHOULD COMPLETELY REPLACE THE GRANULAR BEDDING AND SAND BACKFILL PLACED ABOVE THE SPRINGLINE AND THE OVERT OF THE SEWER OR WATERMAIN. THE CLAY PLUGS MUST BE COMPACTED TO 95% SPMD. MATERIAL USED FOR THE CLAY PLUGS SHOULD CONTAIN NOT LESS THAN 15% PARTICLES FINER THAN 2 MICRONS AND SHOULD HAVE A COEFFICIENT OF PERMEABILITY LESS THAN 10^{-6} CM/SECOND. UNSHRINKABLE FILL CAN ALSO BE USED AS A SUBSTITUTE FOR CLAY PLUGS. BEFORE CONSTRUCTION THE CONTRACTOR SHOULD SUBMIT A REPRESENTATIVE SAMPLE OF THE PROPOSED CLAY PLUG MATERIAL FOR PERMEABILITY AND PARTICLE SIZE TESTING TO THE GEOTECHNICAL ENGINEER TO VERIFY COMPLIANCE WITH THE SPECIFICATIONS. DURING CONSTRUCTION, FURTHER REPRESENTATIVE SAMPLES SHOULD BE TESTED TO DETERMINE ITS ACCEPTABILITY. ALTERNATIVELY, CUT OFF COLLARS CAN BE INSTALLED AROUND THE PIPE BARREL TO ACHIEVE THE SAME EFFECT. COLLARS SHOULD NOT BE PLACED CLOSER THAN 1.0M TO A PIPE JOINT AND PRECAUTIONS SHOULD BE TAKEN TO ENSURE THAT 95% COMPACTION IS ACHIEVED AROUND THE COLLARS. WATERTIGHT CONNECTIONS ARE REQUIRED BETWEEN THE COLLAR AND THE PIPE WALL.

ROADS

10. ALL EXCAVATION SHALL CONFORM TO THE CURRENT ONTARIO PROVINCIAL SPECIFICATION FOR GRADING OPSS 206.
11. THE DEVELOPER SHALL RETAIN A QUALIFIED SOILS CONSULTANT TO CARRY OUT COMPACTION TESTS ON THE COMPLETED SUBGRADE AND SUBSEQUENT LIFTS OF GRANULAR BASE MATERIAL BEFORE PLACEMENT OF NEXT GRANULAR OR ASPHALT LIFT.
12. ALL VEGETATION, BOULDERS OVER 150mm ϕ , TOPSOIL AND ORGANIC OR FROST-SUSCEPTIBLE MATERIALS, SHALL BE REMOVED FROM THE ROAD BASE TO A DEPTH OF AT LEAST 1.20m BELOW FINISHED GRADE AND REPLACED WITH SUITABLE MATERIAL.
13. ALL UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED FROM THE ENTIRE ROAD CORRIDOR AND DEPOSITED OFF THE SITE TO A DISPOSAL AREA APPROVED BY THE CONTRACT ADMINISTRATOR.
14. THE SUB-GRADE SHALL BE SHAPED TO CONFORM TO THE REQUIRED LONGITUDINAL GRADE AND CROSS-SECTION AND SHALL HAVE A CROSSFALL OF 3% FROM THE CENTRELINE OF ROADWAY TO 0.5m FROM BACK OF CURB.
15. NATIVE SUB-GRADE TO BE GRADED, COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF GRANULARS. COMPACTION TO BE MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMD). ALL IDENTIFIED SOFT AND WEAK SPOTS SHALL BE EXCAVATED AND BACKFILLED WITH A SUITABLE GRANULAR BASE MATERIAL. PROOF-ROLL TO BE OBSERVED AND ACCEPTED BY THE MUNICIPALITY AND GEOTECHNICAL ENGINEER PRIOR TO FIRST LIFT OF GRANULAR MATERIAL. MUNICIPALITY TO BE NOTIFIED OF GRANULAR 'B' PROOF ROLL AND GIVEN THE OPTION TO ATTEND.
16. THE GRANULAR BASE SHALL BE LAID ON DRY, SMOOTH, PROPERLY GRADED SUB-GRADE, AND SHALL BE SPREAD FOR THE REQUIRED WIDTH TO MEET THE EDGE OF SUB-GRADE. THE GRANULAR ROAD BASE SHALL CONSIST OF A BOTTOM COURSE OF 450mm MIN. CONSOLIDATED GRANULAR 'B' MATERIAL FULL WIDTH ACROSS THE ROADWAY AND A TOP COURSE OF 150mm CONSOLIDATED GRANULAR 'A' MATERIAL FULL WIDTH ACROSS THE ROADWAY AND CONFORMING IN ALL RESPECTS TO THE MINISTRY OF TRANSPORTATION ONTARIO PROVINCIAL STANDARD SPECIFICATIONS 1010.
17. THE GRANULAR MATERIAL SHALL BE SPREAD IN LAYERS OF 150mm MAXIMUM COMPACTED DEPTHS, AND EACH LAYER SHALL BE THOROUGHLY COMPACTED TO 100% SPMD.
18. NO GRANULAR BASE SHALL BE PLACED UNTIL THE GRADE ON WHICH IT IS TO BE LAID HAS BEEN INSPECTED AND APPROVED BY THE GEOTECHNICAL CONSULTANT AND CONTRACT ADMINISTRATOR.
19. ALL GRANULAR CONSTRUCTION SHALL CONFORM IN ALL RESPECTS TO ONTARIO PROVINCIAL STANDARD SPECIFICATION OPSS 314.
20. AS SOON AS THE GRANULAR BASE HAS BEEN THOROUGHLY COMPACTED AND SHAPED AND THE BASE COURSE ASPHALT PLACED, THE BASE COURSE SHALL CONSIST OF 50mm MIN. THICKNESS OF HL4 BASE COURSE ASPHALT. THE SURFACE COURSE SHALL CONSIST OF 40mm MIN. THICKNESS OF HL3 SURFACE COURSE ASPHALT. ASPHALT WORK SHALL CONFORM IN ALL RESPECTS TO ONTARIO PROVINCIAL STANDARD SPECIFICATIONS 310.
21. THE ASPHALT COMPONENTS SHOULD BE COMPACTED TO 92% MAXIMUM RELATIVE DENSITY, AS PER OPSS 310.
22. JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT AND CURB SURFACES.
23. ALL SERVICES, MANHOLES, VALVES, ETC. ARE TO BE INSTALLED TO MATCH GRADE OF BASE COURSE OF ASPHALT AND/OR FINISHED GRADE OF LANDSCAPING. UPON PLACEMENT OF SURFACE COURSE OF ASPHALT ALL APPURTENANCES LOCATED IN ROADWAY SHALL BE RAISED TO MATCH FINISHED GRADE.
24. SUBDRAINS TO BE LOCATED AS PER ROADWAY DETAIL ON DWG. C107 AND O.P.S.D. 207.030. GRANULAR A EMBEDMENT MATERIAL OR APPROVED EQUIVALENT TO BE USED. WHERE LOCATION OF SUBDRAINS ARE NOT IN WELL DRAINED NATIVE SAND OR WELL DRAINED IMPORTED GRANULAR, THE SUBDRAIN SHALL HAVE GEOTEXTILE WRAP AND BE SURROUNDED ON ALL SIDES WITH 150MM OF 19MM CLEAR STONE AND CLEAR STONE TO BE COMPLETELY WRAPPED IN FABRIC.

STORM SEWER

1. MAIN SEWERS SHALL BE PVC PIPE (OPSS 410), MIN. PIPE STIFFNESS SHALL BE 320kPa OR CONCRETE A257.2 - CLASS - 65D (MIN.). ALL PIPE TO BE JOINED WITH A GASKETED BELL & SPIGOT SYSTEM.
2. MINIMUM PIPE SIZE, INCLUDING CATCH-BASIN LEADS, SHALL BE 300mm ϕ .
3. STORM SEWER EMBEDMENT SHALL CONFORM WITH OPSD 802.010 USING GRANULAR 'A'.
4. PRECAST STORM MANHOLES SHALL BE PER OPSD 701.010 (1200mm ϕ), 701.011 (1500mm ϕ), 701.012 (1800 ϕ), OR 701.013 (2400 ϕ), WITH FRAME AND GRATE PER OPSD 401.010 TYPE 'A' AND HOLLOW RECTANGULAR LADDER RUNGS PER OPSD 405.010. BENCHING SHALL BE PROVIDED IN ALL MANHOLES.
5. PRECAST CATCH-BASINS ARE TO BE OPSD 705.010 (SINGLE) OR 705.020 (DOUBLE) WITH FRAME AND GRATE OPSD 400.020. ALL CATCH-BASINS AND CATCH-BASIN MANHOLES SHALL HAVE SUMPS.
6. FROST STRAPS REQUIRED ON ALL MANHOLES AS PER OPSD 701.100.
7. CULVERTS TO HAVE MIN. 300mm COVER WHERE POSSIBLE. CULVERT MATERIAL TO BE PER TOWN STANDARD OR APPROVAL EQUIVALENT.
8. MINIMUM COVER ON STORM SEWER & CATHASINS LEADS TO BE PER TOWN STANDARD. CONTRACTOR TO APPLY INSULATION AS PER DETAIL ON DWG C107 WHERE MINIMUM COVER IS NOT OBTAINED.
9. STORM PIPE 450mm IN DIAMETER AND GREATER SHALL BE CONCRETE PIPE. ALL PIPE SMALLER THAN 450mm IN DIAMETER SHALL BE P.V.C.

WATERMAIN

A) PIPING

1. ALL CONSTRUCTION TO CONFORM TO AWWA C605-94 AND AWWA C600-99 STANDARDS. MATERIALS TO MEET NSF 60, 61 & 372.
2. WATERMAIN PIPE SHALL BE PVC DR18 (SIZES UP TO AND INCLUDING 300mm ϕ), CONFORMING TO AWWA C900. A DIFFERENT PIPE STRENGTH OR TYPE MAY BE REQUIRED BY THE MUNICIPALITY FOR SPECIAL CONDITIONS.
3. WATERMAIN DEFLECTION NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS, WHERE DEFLECTION CAN NOT MEET MANUFACTURER'S RECOMMENDATIONS, CONTRACTOR TO INSTALL THE REQUIRED MANUFACTURED BEND AS NECESSARY.
4. WATERMAIN SHALL BE BEDDED IN ACCORDANCE WITH OPSD 802.010 WITH GRANULAR 'A'.
5. WATERMAIN TO BE TESTED AND APPROVED PER THE TOWN OF THE BLUE MOUNTAINS - WATERMAIN COMMISSIONING PROTOCOL STANDARD (MAY 2007). CONTRACTOR TO SUBMIT WATERMAIN COMMISSIONING PLAN TO CONTRACT ADMINISTRATOR AND MUNICIPALITY 2 WEEKS BEFORE WATERMAIN INSTALLATION BEGINS. TESTING SHALL NOT COMMENCE UNTIL WATERMAIN COMMISSIONING PLAN IS APPROVED BY CONTRACT ADMINISTRATOR & MUNICIPALITY.
6. ALL TESTING REQUIRES NOTIFICATION IN WRITING, 48 HOURS PRIOR TO ALL TESTING.
7. ALL CONNECTIONS TO EXISTING MUNICIPAL SUPPLY MAINS MUST BE WITNESSED BY THE MUNICIPALITY OR REPRESENTATIVE AND GIVING 48 HOURS NOTICE PRIOR TO CONNECTION AND BACKFILL OPERATIONS.
8. THE PVC PIPE INSTALLATION SHALL INCLUDE TRACER WIRE. TRACER WIRE TO BE 10 GAUGE, MULTI-STRAND SHALL BE PLACED ON TOP & ATTACHED IN TWO PLACES ON EACH LENGTH OF PVC WATERMAIN. ALL CONNECTIONS SHALL BE MADE WITH "DRYCONN WATERPROOF CONNECTORS" OR APPROVED EQUAL. MUNICIPALITY MUST BE ON SITE DURING ANY TRACER WIRE CONTINUITY TESTING.
9. THE MINIMUM COVER ON WATERMAINS SHALL BE 1.7m. WHEN COVER IS LESS THAN 1.7m, CONTRACTOR TO PROVIDE INSULATION PER DETAIL ON DWG C107.
10. CATHODIC PROTECTION REQUIRED ON ALL METALLIC FITTINGS AND PIPE AS PER OPSD 702 & TOWN STANDARD.
11. THRUST BLOCKS OR JOINT RESTRAINTS SHALL BE REQUIRED AT ALL CHANGES IN PIPE DIRECTION, TERMINATIONS AND ANY LOCATION WHERE THRUST PRESSURES MAY OCCUR. WHERE SOIL CONDITIONS ARE SUSPECT, SUCH AS IN DISTURBED SOILS OR SOILS WITH BEARING CAPACITY OF LESS THAN 200kPa, PIPE RESTRAINTS SHALL BE USED. SEE TOWN STANDARDS OF APPROPRIATE PRODUCT REQUIREMENTS. THE USE OF THREADED RODS IN JOINT RESTRAINT IS NOT PERMISSIBLE.
12. FIRE HYDRANTS SHALL BE CANADA VALVE, OPEN LEFT. PAINTED CHROME YELLOW COMPLETE WITH FLEX STAKE HYDRANT MARKER, MODEL FHV802, 1.5m TALL, WITH A 0.3m x 0.3m REFLECTIVE SIGN WITH A HYDRANT SYMBOL.

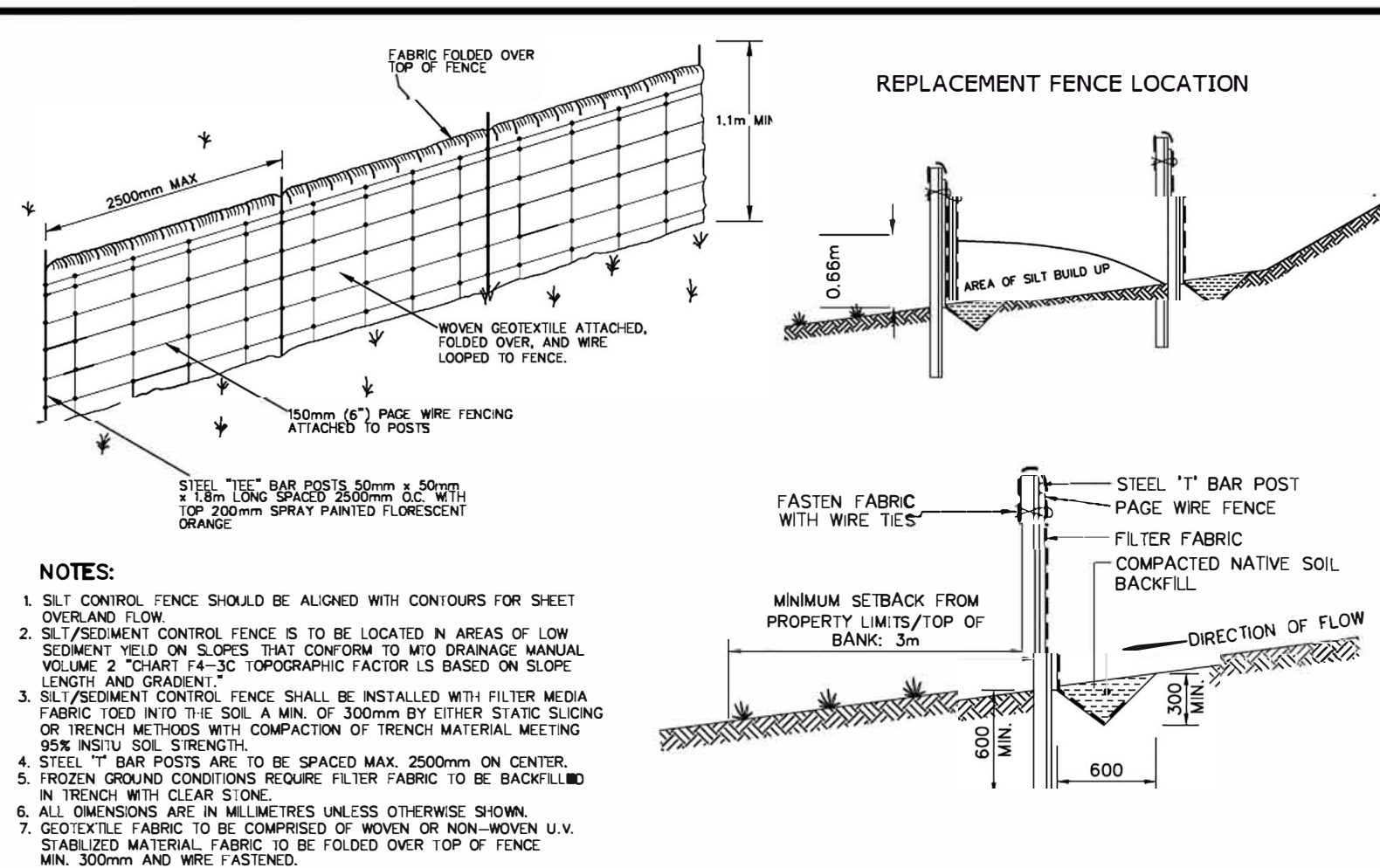
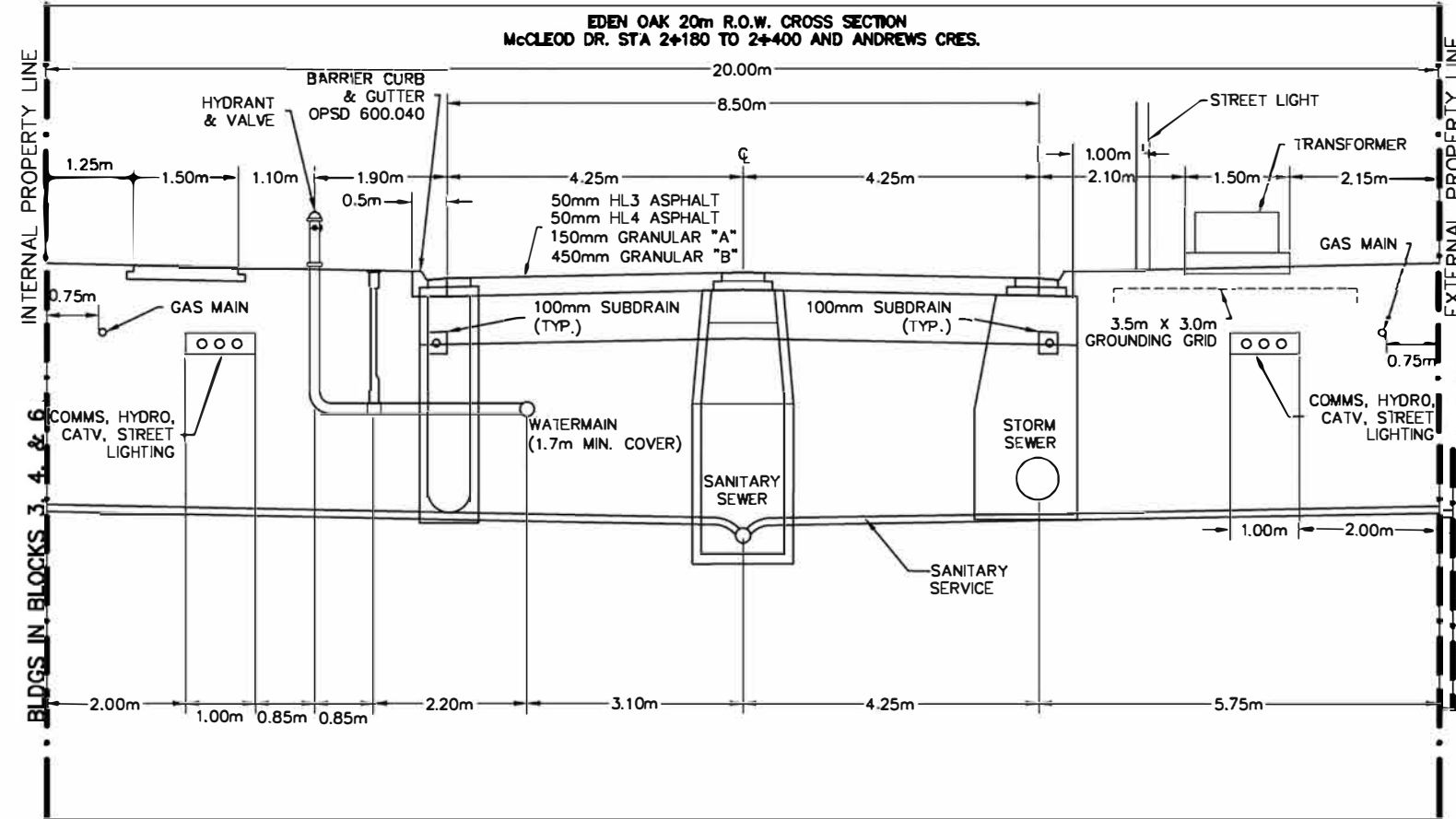
B) SERVICES

1. EACH HOUSING UNIT SHALL HAVE A SEPARATE 20mm ϕ MIN. TYPE 'K' COPPER OR 25mm ϕ POLY WATER SERVICE. A CURB STOP AND EXTENSION SERVICE BOX AND MAIN STOP MUST BE INSTALLED ON EACH SERVICE USING COMPRESSION JOINT FITTINGS.
2. WATER SERVICE FITTINGS SHALL BE AS FOLLOWS:
 - MAIN STOPS ARE TO BE CAMBRIDGE BRASS 301N1 SERIES.
 - CURB STOPS ARE TO BE SELF DRAINING, CAMBRIDGE BRASS 202N1 SERIES.
 - SERVICE BOXES ARE TO BE OF ALL IRON/STEEL CONSTRUCTION AND SUPPLIED WITH STAINLESS STEEL SADDLES, CAMBRIDGE BRASS 8403 SERIES.
3. CURB STOPS SHALL BE LOCATED AT PROPERTY LIMITS & SUPPLIED WITH A 89mm x 38mm MARKER FROM THE INVERT OF THE SERVICE TO 600mm ABOVE GRADE PAINTED BLUE.
4. SERVICE CONNECTIONS TO WATERMAINS SHALL BE MADE BY DIRECT TAPPING OR WITH BROAD BAND STAINLESS STEEL SADDLES. SERVICE SADDLES TO BE STAINLESS STEEL 8403 SERIES DOUBLE STRAP & TAPPING SADDLE TO BE CAMBRIDGE BRASS 8403 STAINLESS.
5. SERVICE CONNECTIONS SHALL BE LEFT WITH A TAIL 1m ABOVE FINAL GRADE & CAPPED OR CRIMPED.
6. SERVICE CONNECTIONS WITH RESIDUAL PRESSURES EXCEEDING 550 kPa (80psi) MUST BE EQUIPPED WITH PRESSURE REDUCING DEVICES UPSTREAM OF WATER METER IN FUTURE HOMES.
7. SERVICES TO BE INSTALLED WITH TRACER WIRE TERMINATING UP CURB STOP VALVE. TRACER WIRE TO BE 10 GAUGE, MULTISTRAND AND PLACED PARALLEL WITH SERVICE. MUNICIPALITY TO CONFIRM TRACER WIRE INSTALLATION AND FUNCTIONALITY VIA CONTINUITY TESTING POST-INSTALLATION.

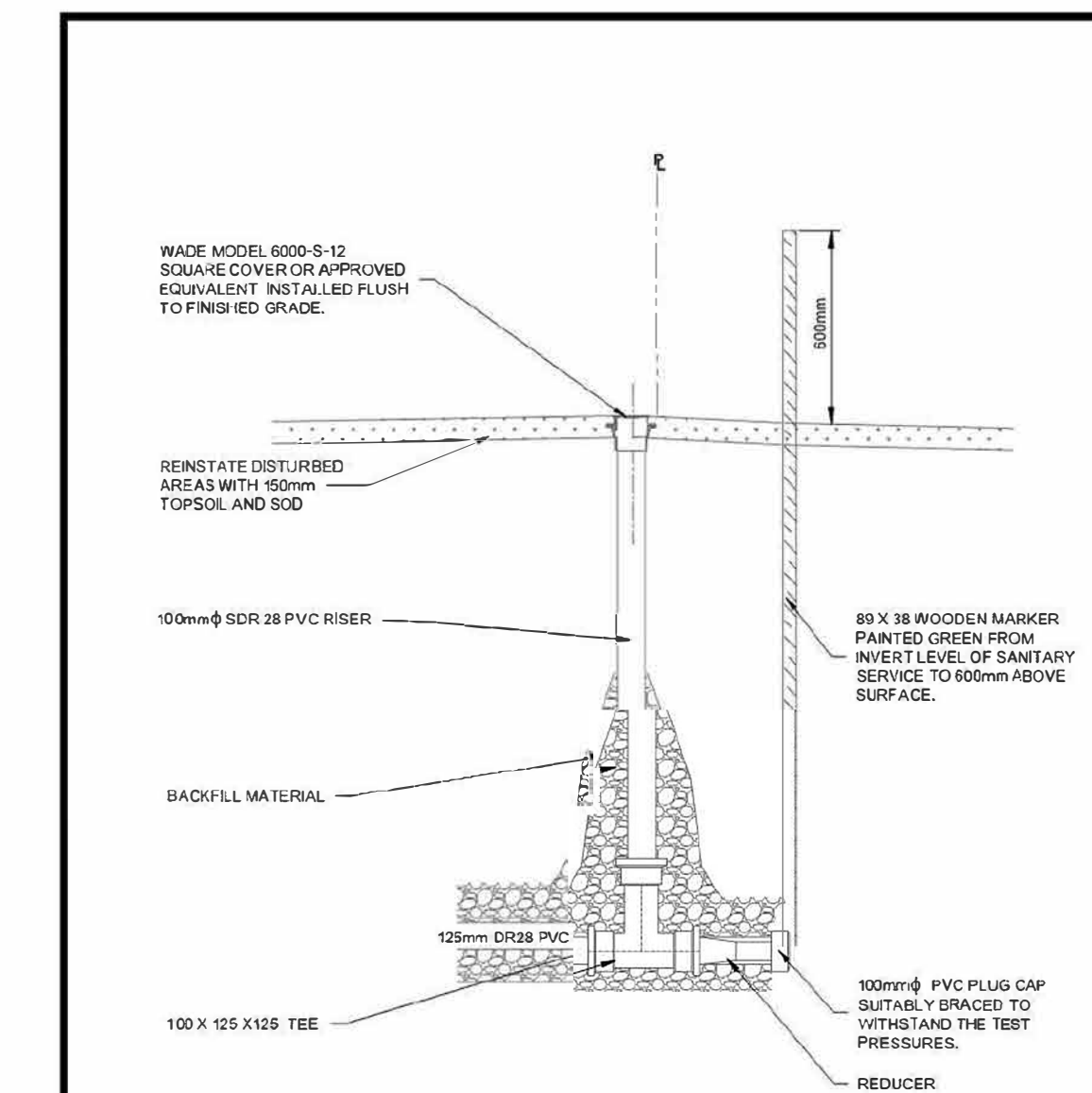
SANITARY SEWERS

1. MAIN SEWERS SHALL BE PVC SDR 35 WITH RUBBER GASKET CONNECTIONS AND MIN. SIZE OF 200mm ϕ . ALL SANITARY SEWER PIPES SHALL CONFORM TO THE REQUIREMENTS OF CSA AND OPSS.
2. SANITARY SEWER EMBEDMENT SHALL CONFORM WITH OPSD 802.010 USING GRANULAR 'A'.
3. PRECAST SANITARY MANHOLES SHALL CONFORM WITH OPSD 701.010 (1200mm ϕ) WITH HOLLOW RECTANGULAR LADDER RUNGS PER OPSD 405.010. BENCHING SHALL BE PROVIDED IN ALL MANHOLES.
4. PRECAST SANITARY MANHOLES EXCEEDING 5.0m DEPTH SHALL BE INSTALLED WITH ALUMINUM SAFETY PLATFORM AND SECURED TO MANHOLE PER OPSD 404.200.
5. MANHOLE COVERS SHALL BE CAMRON D5579 (OR APPROVED EQUAL) AND INSTALLED AS PER MUNICIPAL STANDARD.
6. HOUSE SERVICE CONNECTIONS SHALL BE PVC SDR 28 WITH RUBBER GASKET CONNECTIONS AND SHALL BE 125mm ϕ MIN. SERVICE CONNECTIONS TO HAVE A MINIMUM 2.0% SLOPE.
7. SHOP MANUFACTURED "TEE" CONNECTIONS SHALL BE USED FOR HOUSE SERVICE CONNECTIONS ON 200mm AND 250mm SEWERS.
8. SERVICE CONNECTIONS ARE NOT TO BE CONNECTED TO MAINTENANCE HOLES.
9. FROST STRAPS REQUIRED ON ALL MANHOLES AS PER OPSD 701.100.

CONSTRUCTION NOTES



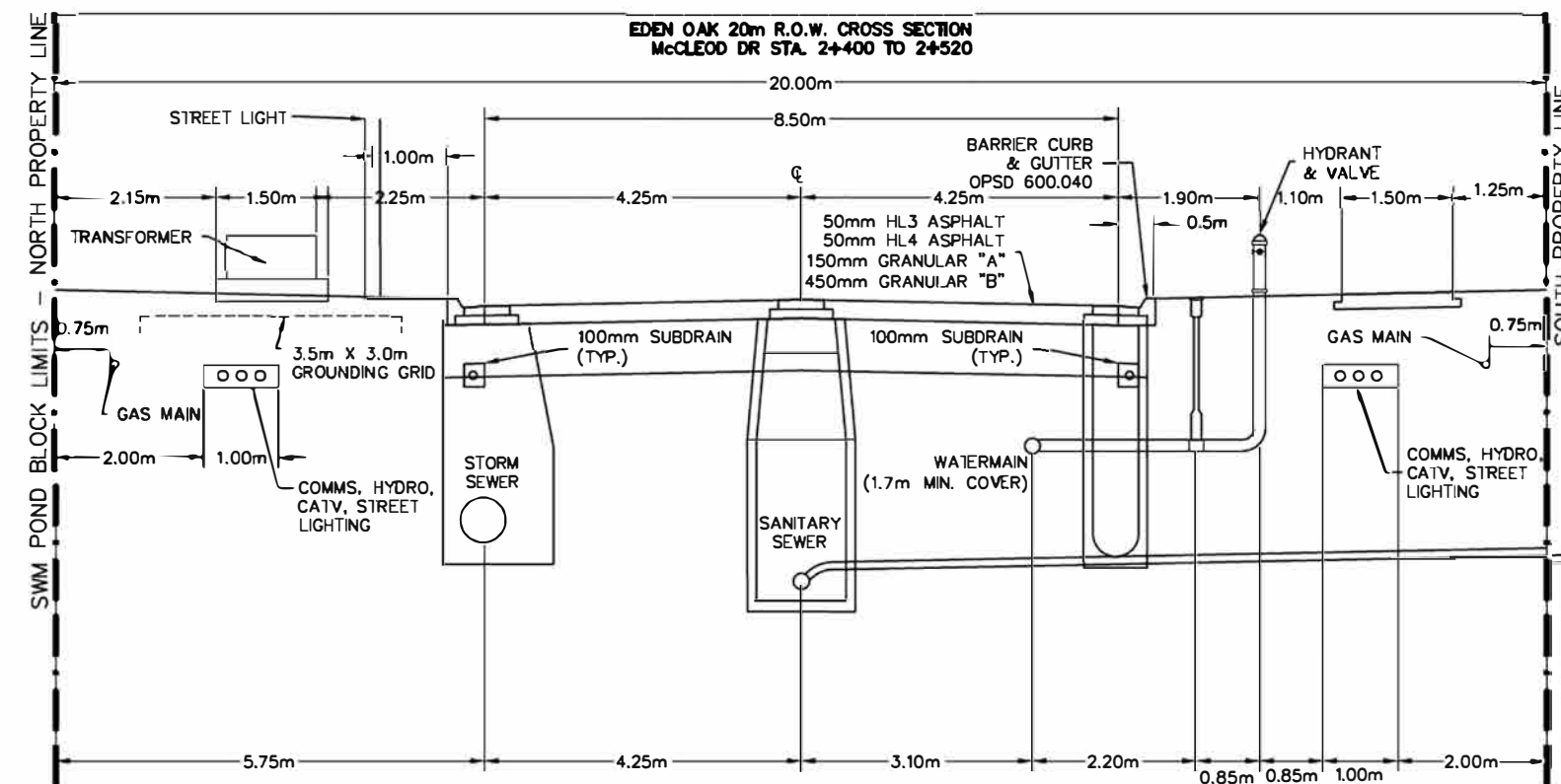
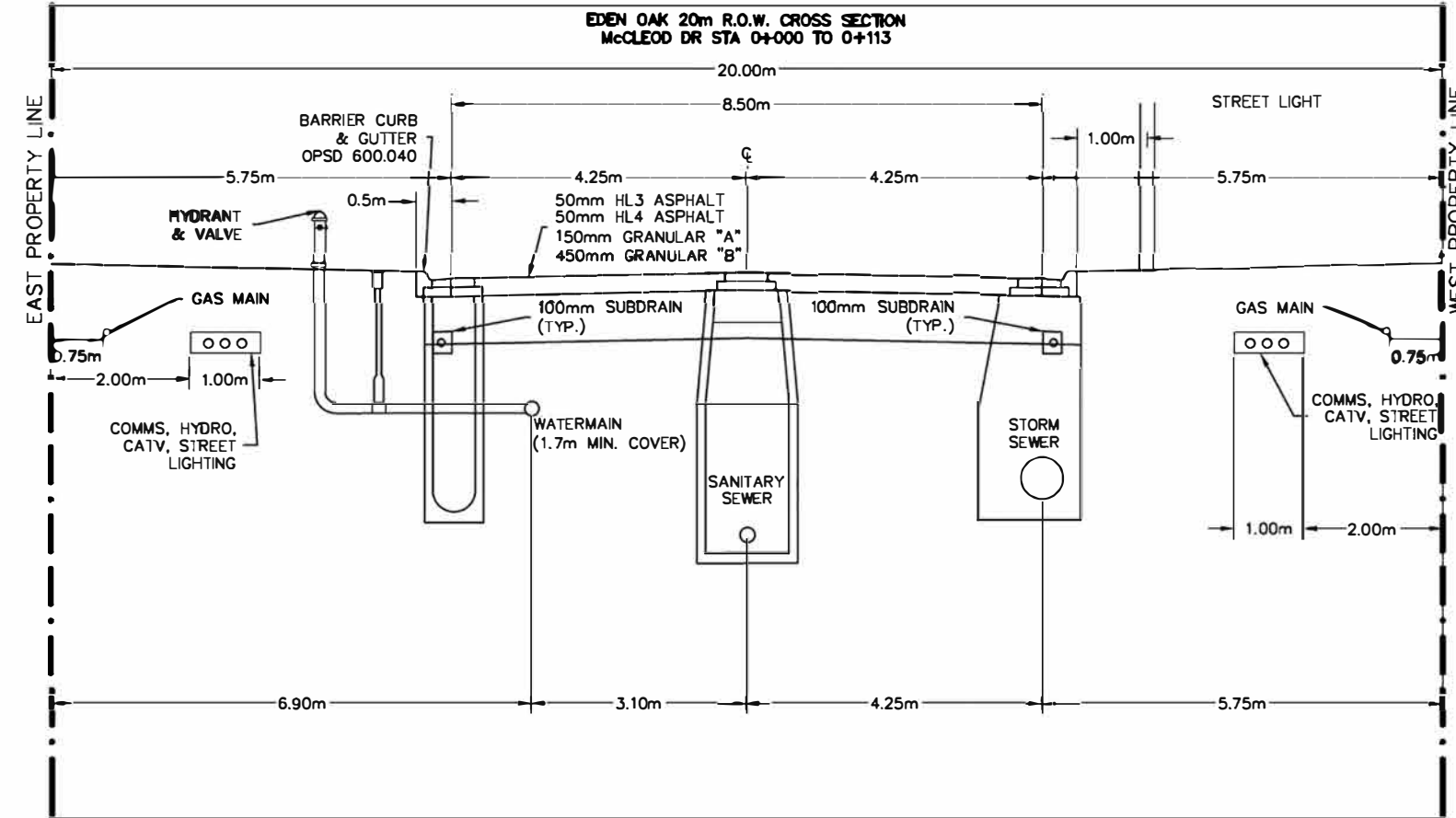
Nottawasaga Valley Conservation Authority		APRD.	DATE: 03.03.06
TYPICAL DETAIL OF SILT/SEDIMENT FENCE		DRAWN: A.S.C	SCALE: NTS
NO.	REVISION	APR'D	DATE
BSD-23 DRAFT			



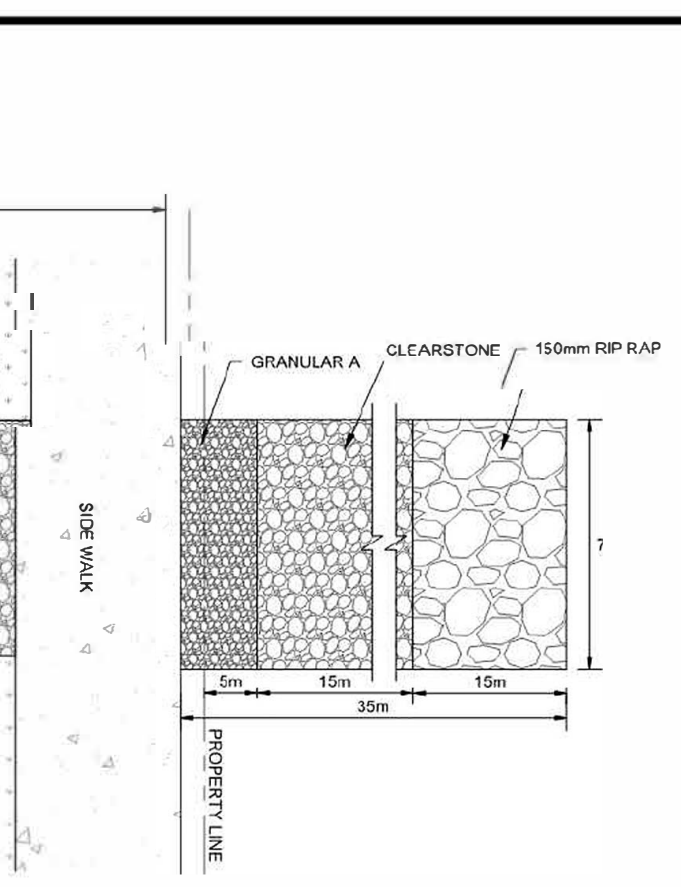
NOTE:

1. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR 'A' MATERIALS.
2. WHERE INSTALLED IN GRAVEL DRIVEWAYS THE VIEW PORT CAP SHALL BE INSTALLED 150mm BELOW GRADE.

Town Of The Blue Mountains Standard Drawings			
SANITARY SEWER VIEWPORT DETAIL			
JAN 2023	Sheet	N.T.S.	TOTAL S.D. 4.6.3



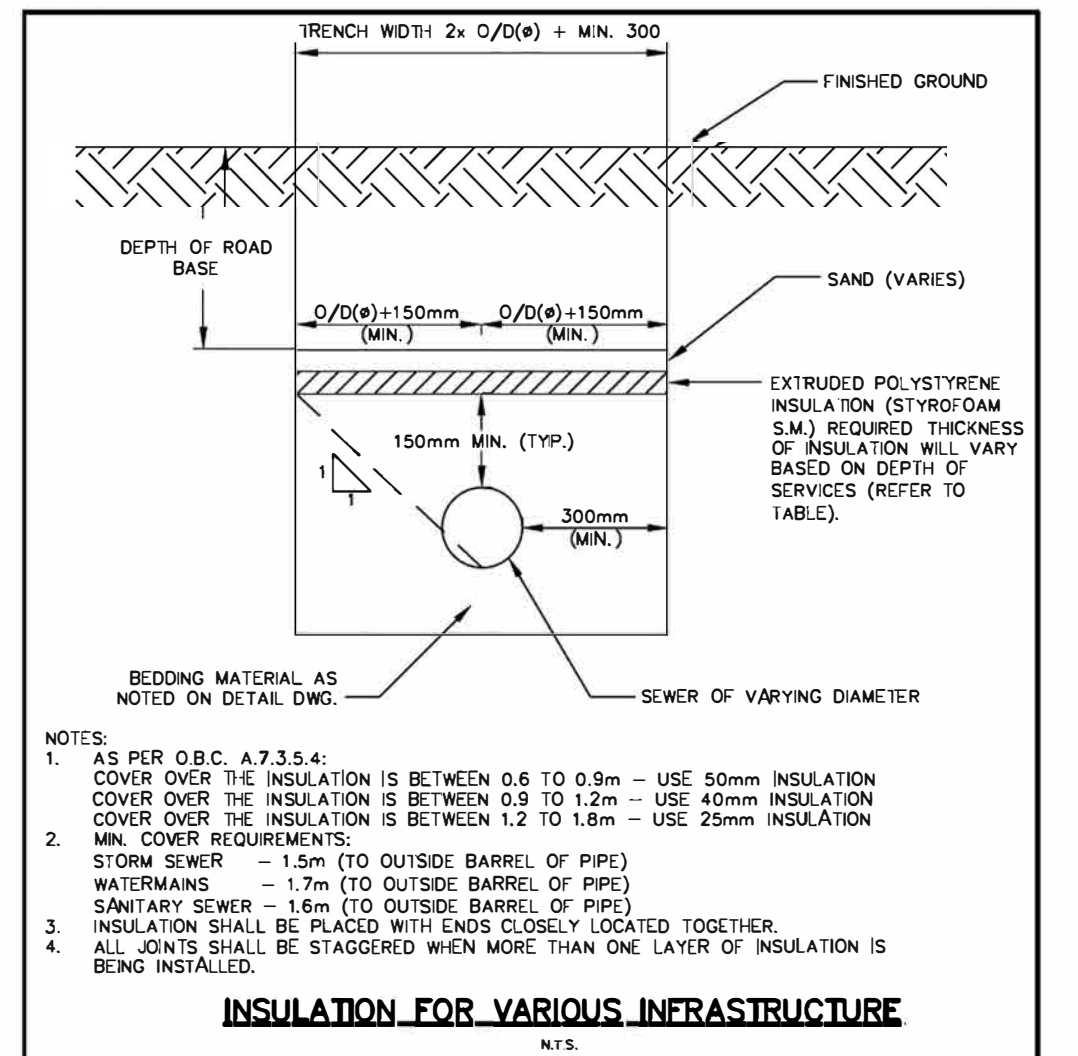
Nottawasaga Valley Conservation Authority		APRD.	DATE: 03.03.06
TYPICAL DETAIL OF SILT/SEDIMENT FENCE		DRAWN: A.S.C	SCALE: NTS
NO.	REVISION	APR'D	DATE
BSD-23 DRAFT			



NOTES:

1. MUD MATS ARE TO BE INSTALLED AND MAINTAINED AS PER SITE CONDITIONS TO ENSURE THERE IS NO MUD TRACKING ON MUNICIPAL ROADS.
2. MUD MAT BE A MINIMUM OF 3m LONG FROM THE PROPERTY LINE, A MINIMUM OF 7m WIDE, AND 0.45m IN DEPTH FILLED WITH CLEAR STONE, GRANULAR 'A' AND 150mm RIP RAP.
3. A MUD SHALL BE PROVIDED AT EVERY ENTRANCE AND START IMMEDIATELY FROM THE BACK OF CURB.
4. CONTRACTOR IS RESPONSIBLE FOR ENSURING SIDEWALK IS SAFE AND MAINTAINED IN GOOD CONDITION.
5. ANY DISTURBANCE / DAMAGE TO THE BOULEVARD IS TO BE REINSTATED TO ITS ORIGINAL CONDITION OR TO SATISFACTION OF THE TOWN.
6. CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENTS AND DEBRIS AS REQUIRED.
7. THIS DETAIL IS FOR REMOVED INFORMATION ONLY. THE ACTUAL CONFIGURATION USED MUST SATISFY THE INTENT OF THIS DRAWING.

Town Of The Blue Mountains Standard Drawings			
MUD MAT DETAIL			
JAN 2023	Sheet	N.T.S.	TOWN S.D. 4.14.3



INSULATION FOR VARIOUS INFRASTRUCTURE

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3. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT.
4. DO NOT SCALE THE DRAWINGS.
5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

TEMPORARY BENCHMARKS

BTM#1 - CUT CROSS GEODEIC ELEVATION: 180.941m
LOCATION: SOUTHWEST CORNER OF PUMP HOUSE STOOP AS SHOWN ON FACE OF PLAN
BTM#2 - CUT CROSS GEODEIC ELEVATION: 184.315m
LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL No. 226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN

No.	ISSUE	DATE: MM/DD/YYYY
5	ISSUED FOR 4th SUBMISSION	04/29/2024
6	ISSUED FOR PRE-SERVICING AGREEMENT - PH 1A	09/11/2024
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12	ISSUED FOR CONSTRUCTION	04/16/2025

Engineer Engineer

EDEN OAK - TRAILHEAD
TOWN OF THE BLUE MOUNTAINS

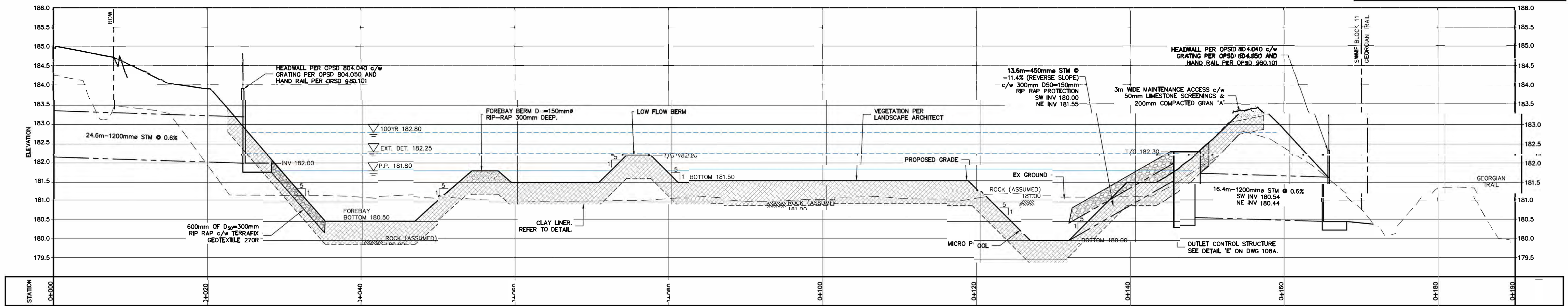
NOTES AND DETAILS



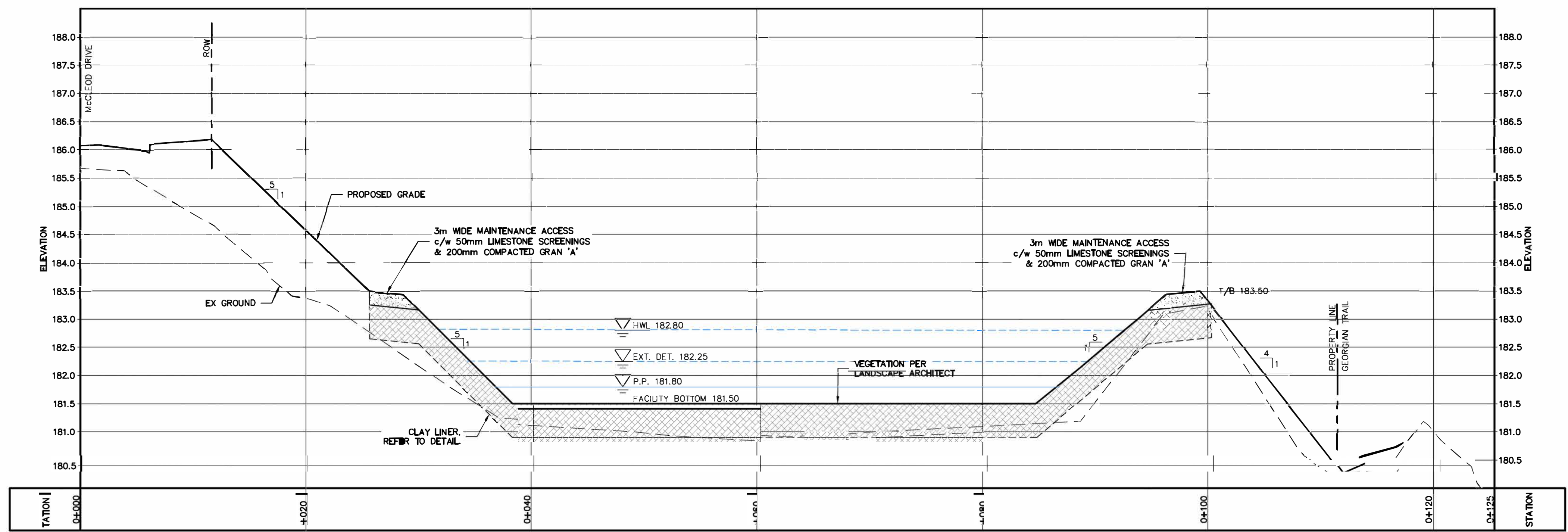
Drawn By	J.P.	Design By	M.V.R.	Project	218-2659
Check By	R.W.	Check By	R.A.	Scale	AS NOTED
				Drawing	C107

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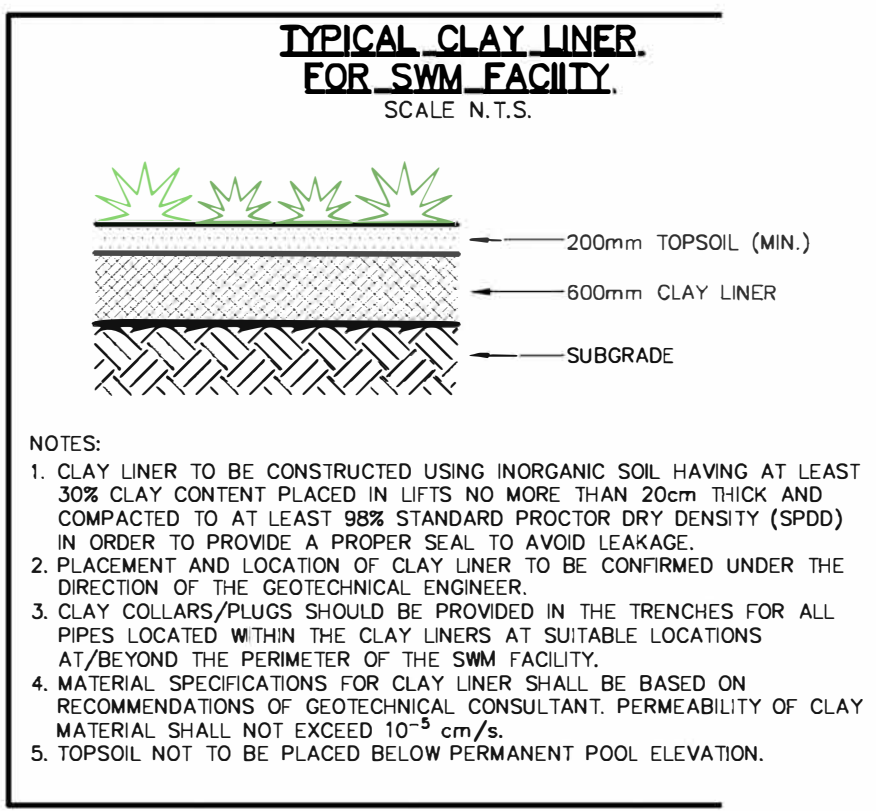
Signature



SWMF SECTION Z-Z
SCALE: HORZ. = 1:250
VERT. = 1:25



SWMF SECTION Y-Y
SCALE: HORZ. = 1:250
VERT. = 1:25



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LOCATION: FLOOR OF WEST END OF GARAGE ENTRANCE, MUNICIPAL No. 226 LAKESHORE ROAD EAST AS SHOWN ON FACE OF PLAN

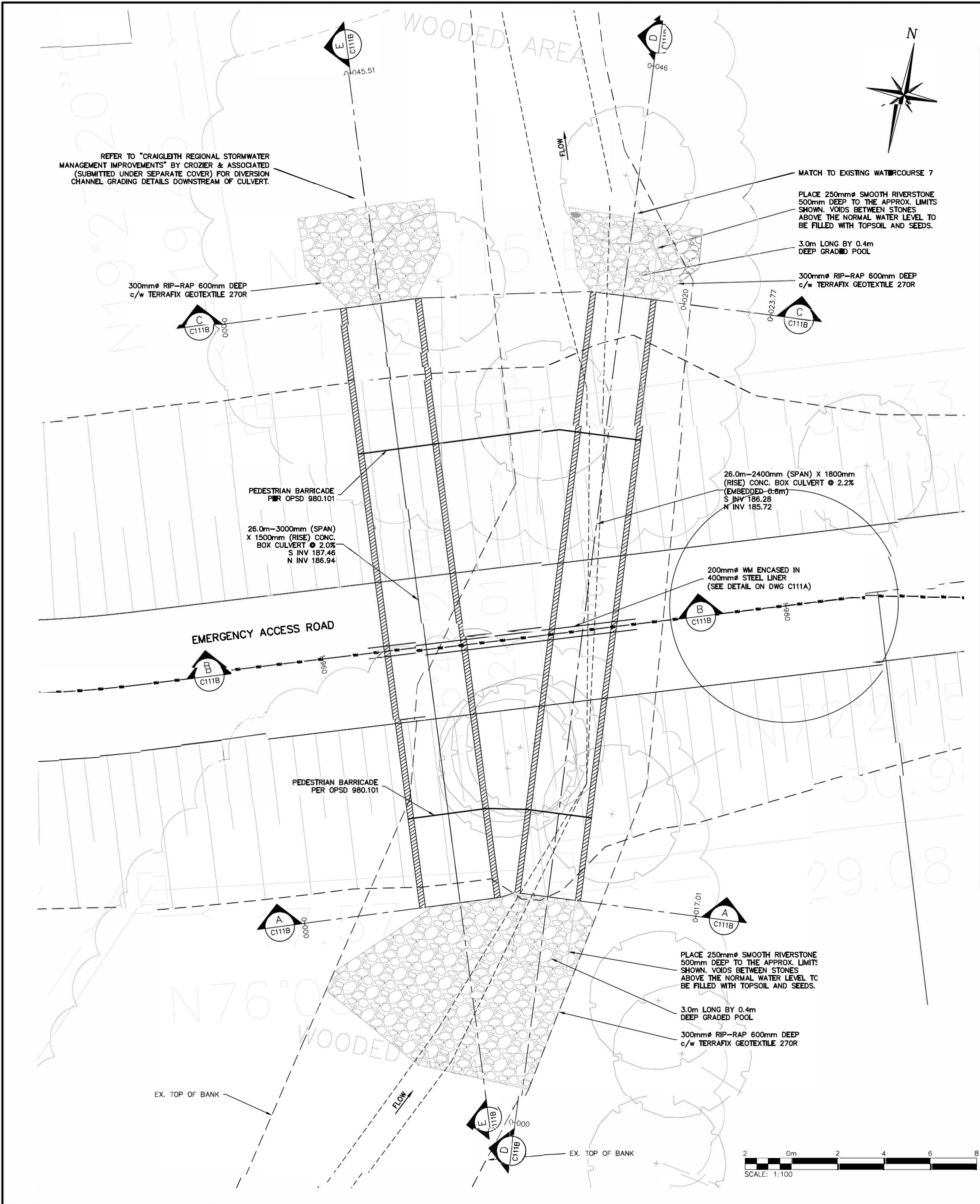
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EDEN OAK - TRAILHEAD
TOWN OF THE BLUE MOUNTAINS

SWMF SECTIONS

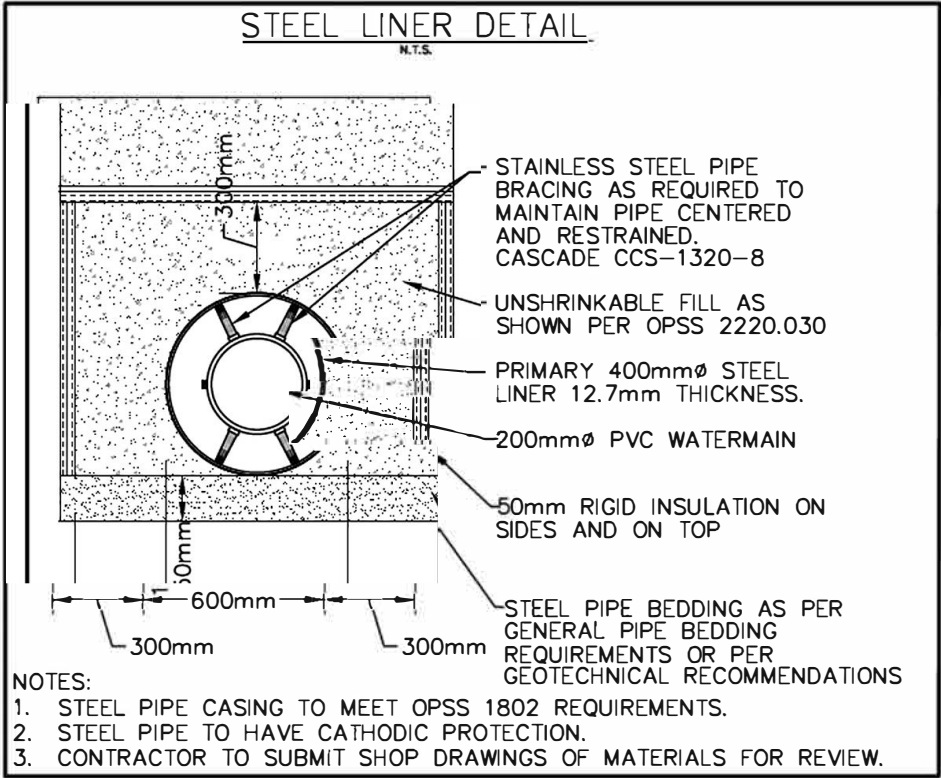
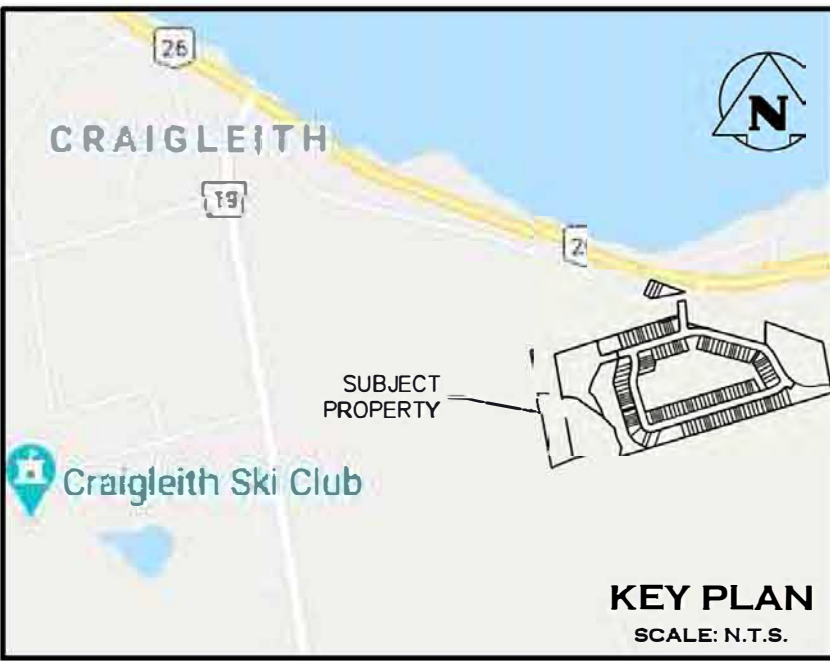
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CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON L9Y 4L4
705-446-9510
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Drawn By: J.P. Design By: M.V.R. Project: 218-2659
Check By: R.W. Check By: R.A. Scale: 1:250 Drawing: C108B



- CONSTRUCTION NOTES**
- GENERAL**
1. WATERCOURSE IS SUBJECT TO COOL WATER TIMING WINDOW AND THUS ALL IN-WATER WORKS ARE PROHIBITED FROM MARCH 15TH TO JULY 15TH.
 2. NO TREE CLEARING BETWEEN APRIL 1ST - AUGUST 30TH.
 3. WATERPROOFING TO BE ADDED ALONG ENTIRE BURIED SECTION OF BOX CULVERTS EXTENDING 0.5m DOWN EACH WALL.
 4. CONTRACTOR IS TO ADHERE WITH THE REQUIREMENTS OF OPSS 182 - ENVIRONMENTAL PROTECTION FOR CONSTRUCTION IN WATERBODIES AND ON WATERBODY BANKS.
- GENERAL CONSTRUCTION SCHEDULE**
1. IN STREAM WORKS TO COMPLY WITH NVCA/DFO FISHERY TIMING GUIDELINES AND ASSOCIATED PERMITTING.
 2. MAINTAIN TEMPORARY BY-PASS CULVERTS AND OVERLAND SPILL ROUTE PRIOR TO ANY EXCAVATION.
 3. COMPLETE ASSOCIATED SEDIMENT CONTROLS, CULVERT AND UNDERGROUND SERVICES ENSURING WORKING IN THE DRY AT ALL TIMES.
- REQUIREMENTS FOR THE CONTRACTOR**
1. SUBMISSION SHALL INCLUDE DETAILS ON REACTION LOADS, BOTH HORIZONTAL & VERTICAL, TO BE RESISTED BY FOUNDATION AS WELL AS DETAILS ON PROPOSED ANCHORAGE FOR CULVERT AND FOOTINGS.
 2. ENSURE THAT THE SHOP DRAWINGS ARE SPECIFIC TO THIS CONTRACT, AND REFERENCED TO CFCA PROJECT No. 218-2659, AND NOT A "STOCK ITEM".
 3. ENSURE THAT SHOP DRAWINGS SHOW AND SPECIFY ALL JOINT FILLERS, SEALS AND COMPOUNDS, GROUT, AND GEOTEXTILE INSTALLATIONS AND APPLICATIONS.
- WATERCOURSE PROTECTION NOTES**
1. NO IN-WATER WORKS ARE TO OCCUR BETWEEN MATCH 15 AND JULY 15.
 2. THE EROSION CONTROL MEASURES SHOWN IN THE PLANS INDICATE THE MINIMUM REQUIREMENTS ONLY. THE CONTRACTOR SHALL ENSURE CONSTRUCTION IS PROTECTED FROM THE WATERCOURSE AND THE WATERCOURSE IS PROTECTED FROM THE MIGRATION OF SEDIMENT AND FOREIGN MATERIALS FROM CONSTRUCTION ACTIVITY AND EXTERNAL SOURCES THROUGHOUT CONSTRUCTION.
 3. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE ADEQUACY OF THE EROSION PROTECTION MEASURES AND SHALL ENSURE THE MEASURES ARE IN ACCORDANCE WITH THE GREY SAUBLE CONSERVATION AUTHORITY AND DEPARTMENT OF FISHERIES AND OCEANS CANADA REQUIREMENTS. THE CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS DEEMED NECESSARY BY THE CONTRACT ADMINISTRATOR.
 4. ALL EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO CONSTRUCTION, INSPECTED DAILY, AND MAINTAINED AS DEEMED NECESSARY BY THE CONTRACT ADMINISTRATOR.
 5. REFUELING IS PROHIBITED WITHIN 30m OF THE WATERCOURSE. NO MACHINERY IS TO ENTER THE WATERCOURSE AT ANY TIMES AND WASHING OF MACHINERY OR EQUIPMENT IS PROHIBITED WITHIN 30m OF THE WATERCOURSE.
 6. CONTRACTOR IS TO LIMIT IMPACTS OF RIPARIAN VEGETATION INCLUDING LIMITING ACCESS TO BANKS ADJACENT TO WATERCOURSES. CONSTRUCTING ACCESS POINTS PERPENDICULAR TO WATERCOURSES AND RE-VEGETATE THE SITE WITH NATIVE SPECIES SUITABLE TO THE SITE.
 7. ALL EXCAVATIONS SHALL BE DEWATERED TO ENSURE PLACEMENT OF MATERIALS IN THE DRY. DEWATERING SHALL BE DISCHARGED AT LEAST 30m FROM THE WATERCOURSE IN A FILTERED SUMP, SOCK, OR SOAKAWAY PIT. DEWATERING INTAKE PIPES ARE TO INCLUDE SCREENS TO PREVENT ENTRAPMENT OF FISH.
 8. COFFERDAM SYSTEMS SHALL BE CONSTRUCTED OF CLEAN, NON ERODABLE MATERIALS INCLUDING BUT NOT LIMITED TO SANDBAGS, CLEAN STONE, PLASTIC SHEETING, ETC.
 9. ALL WORKS AREAS WITHIN THE LIMITS OF THE TEMPORARY COFFERDAMS SHOULD OCCUR UNDER DRY CONDITIONS.
 10. THE CONTRACTOR SHALL PROVIDE A WATERCOURSE CONTROL PLAN AND LOCAL DEWATERING PLAN, INCLUDING A SPILL RESPONSE PLAN FOR THE CULVERT INSTALLATION TO THE CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR TO REFER TO CDED B517, OPSS 517 AND DFO LETTER OF ADVISE FOR WATERCOURSE CONTROL REQUIREMENTS.
 11. SHOULD DEWATERING BE REQUIRED, DISCHARGE WATER WILL NEED TO BE DISCHARGED THROUGH A SEDIMENT TRAP, OR FILTER BAG ('ENVIRO BAG') IN A WELL VEGETATED AREA AT LEAST GAP 30m FROM THE WATERCOURSE. ALLOW DISCHARGE TO FILTER AND TRICKLE BACK TO THE WATERCOURSE DOWNSTREAM OF THE WORK AREA (THROUGH VEGETATED AREA, NOT EXPOSED EARTH). THE DISCHARGE AREA IS TO BE MONITORED THROUGHOUT DEWATERING AND SHOULD EROSION OCCUR, DEWATERING DISCHARGE IS TO BE RELOCATED OR STOPPED.
 12. CONTRACTOR IS TO MAINTAIN THE FLOW OF WATER IN THE CREEK AROUND THE WORK AREA AT ALL TIMES FOR THE DURATION OF WORK, MAINTAINING WATER QUALITY AND QUANTITY UPSTREAM AND DOWNSTREAM OF THE DAMS AT ALL TIMES TO AVOID IMPACTS TO FISH HABITAT.
 13. ANY DISTURBED AREAS ARE TO BE RESTORED AND STABILIZED USING A COIR MAT 400 BY TERRAFIX OR APPROVED EQUIVALENT.
 14. IN WATER WORKS TO BE SCHEDULED DURING DRY WEATHER PERIODS FORECASTED.
- FISHERIES NOTES**
1. FISH ARE TO BE CAPTURED, AND RELOCATED DOWNSTREAM OF ACTIVE WORK AREAS PRIOR TO SITE DEWATERING. ALL FISH SALVAGE IS TO BE COMPLETED BY MEANS OF ELECTROFISHING, BY A QUALIFIED PROFESSIONAL WITH AN MNRF LICENCE TO COLLECT FISH FOR SCIENTIFIC PURPOSES.
 2. THE CONTRACTOR IS TO CAPTURE, RELOCATE AND MONITOR FOR FISH TRAPPED WHEN ISOLATED, ENCLOSED OR DEWATERED AREAS.
 3. PRIOR TO IN-WATER CONSTRUCTION WORKS, THE CONTRACTOR IS TO CLEAN, DRAIN AND DRY ALL EQUIPMENT TO ENSURE NO DEPOSITION OF FOREIGN MATERIALS INTO THE WATERCOURSE VIA CONTAMINATED EQUIPMENT.
 4. THE CONTRACTOR IS TO LIMIT IMPACTS TO THE WATERCOURSE AND SURROUNDING AREA WHEN ACCESSING THE WATERCOURSE. THE CONTRACTOR SHALL REINSTATE ALL DISTURBED AREA WITH NATIVE SPECIES SUITABLE TO THE SITE TO LIMIT IMPACTS OR RIPARIAN VEGETATION.
 5. WHEN STREAM RELOCATION OCCURS, THE CONTRACTOR IS TO RESTORE STREAM GEOMORPHOLOGY TO ITS INITIAL STATE.
 6. THE CONTRACTOR IS TO DEVELOP AND IMPLEMENT A SEDIMENT AND EROSION CONTROL PLAN FOR ALL PHASES OF IN-WATER WORKS AND A RESPONSE PLAN TO AVOID A SPILL OF DELETERIOUS SUBSTANCES.

- CONSTRUCTION STAGING PLAN:**
1. ESTABLISH EROSION AND SEDIMENT CONTROLS IN THE WORK AREA SHOWN ON C111C.
 2. CONSTRUCT COFFERDAM TO ISOLATE WORK AREA.
 3. FISH RESCUE WITHIN ISOLATED WORK AREA.
 4. DEWATER WORK AREA USING BYPASS PUMPING SYSTEM.
 5. OPEN CUT INSTALLATION OF WATERMAIN.
 6. CONSTRUCT CULVERT. IMMEDIATELY RESTORE THE DISTURBED AREAS USING COIR MAT 400 OR APPROVED EQUIVALENT.
 7. BACKFILL AND CONSTRUCT ROAD BASE.
 8. WHEN STABILIZED, REMOVE COFFERDAM AND BYPASS PUMPING AND EROSION AND SEDIMENT CONTROLS AND COMPLETE FINAL RESTORATION.



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WC7 CULVERT CROSSING - PLAN



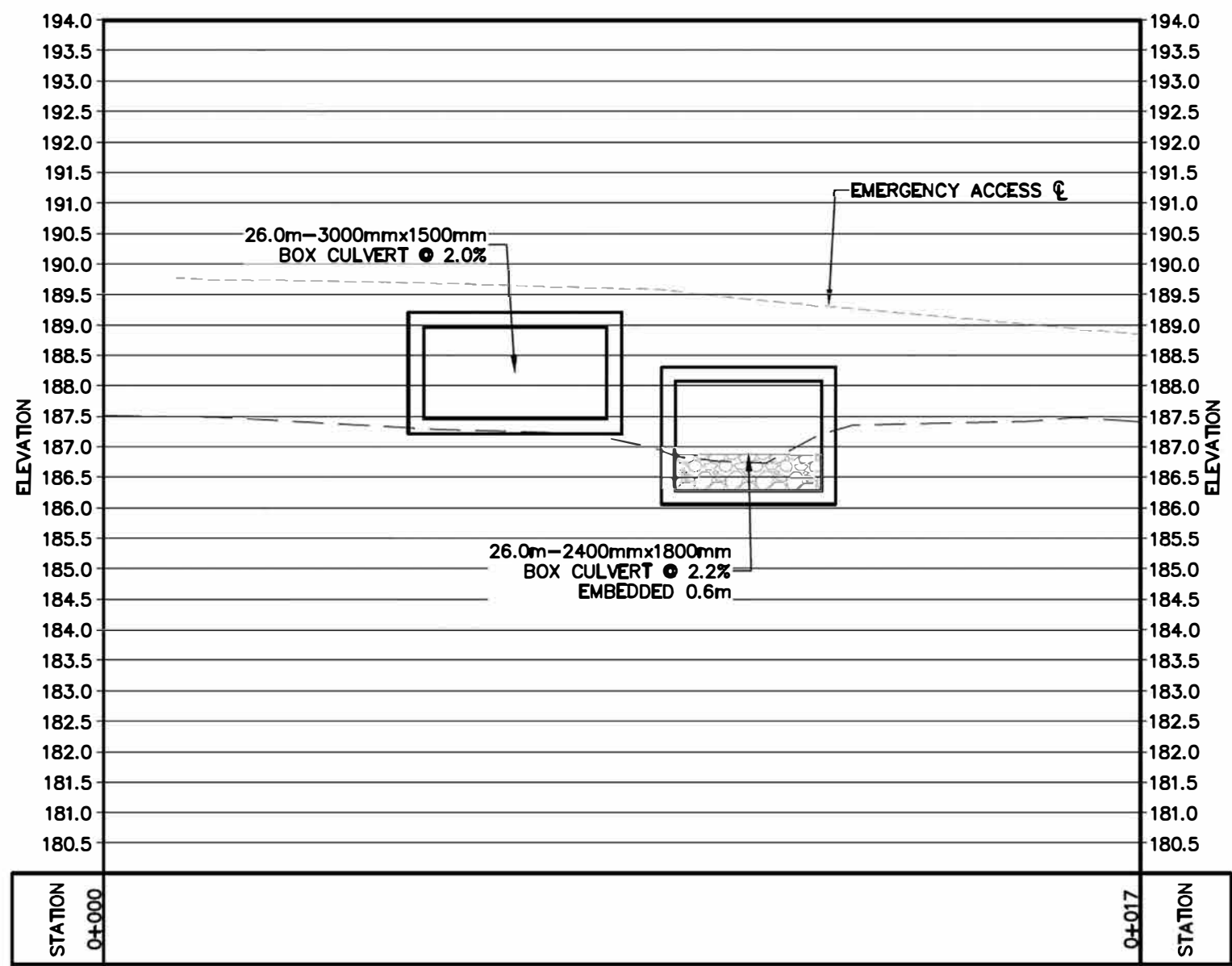
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Check By: R.W. Check By: R.A. Scale: 1:100 Drawing: C111A

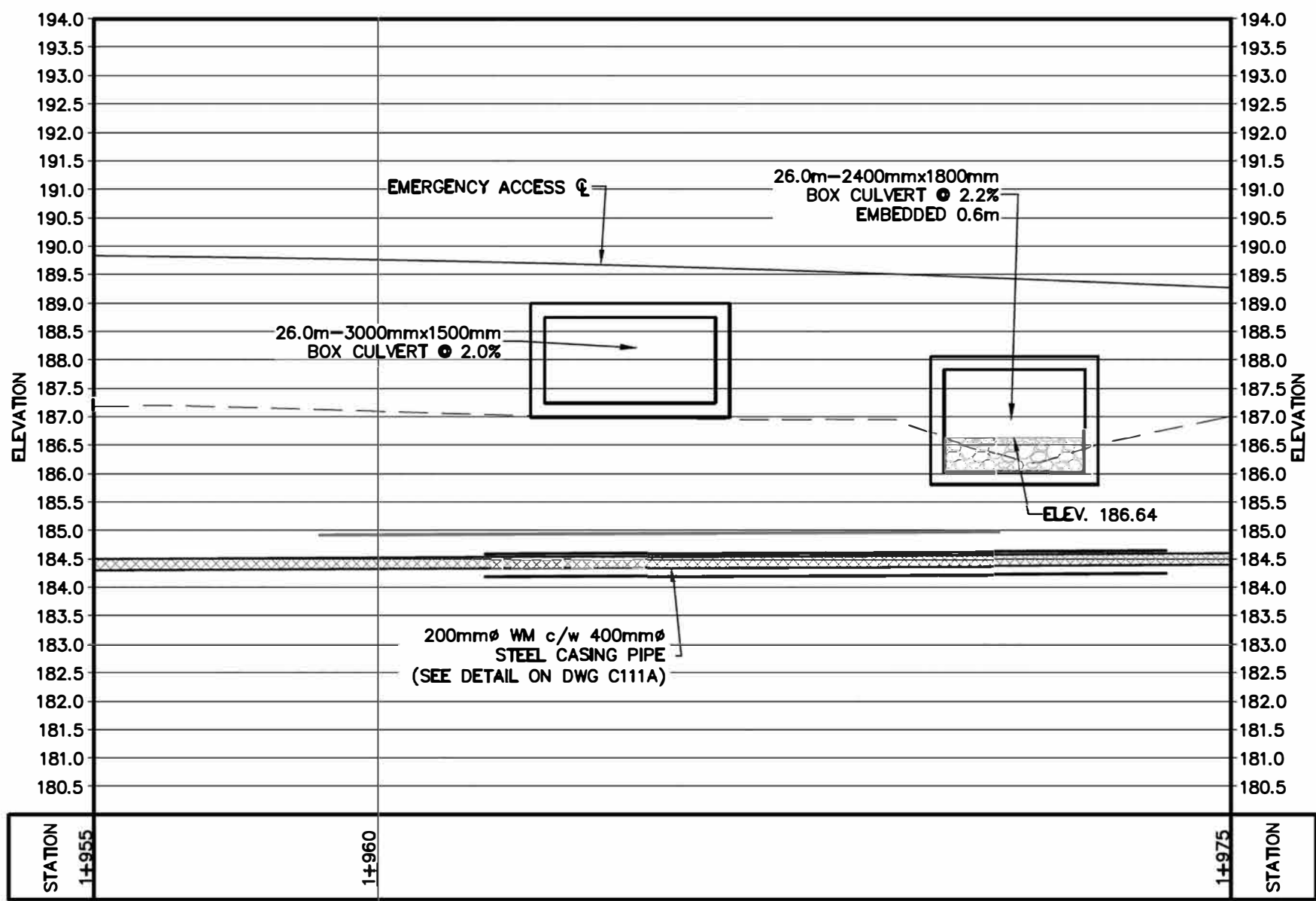
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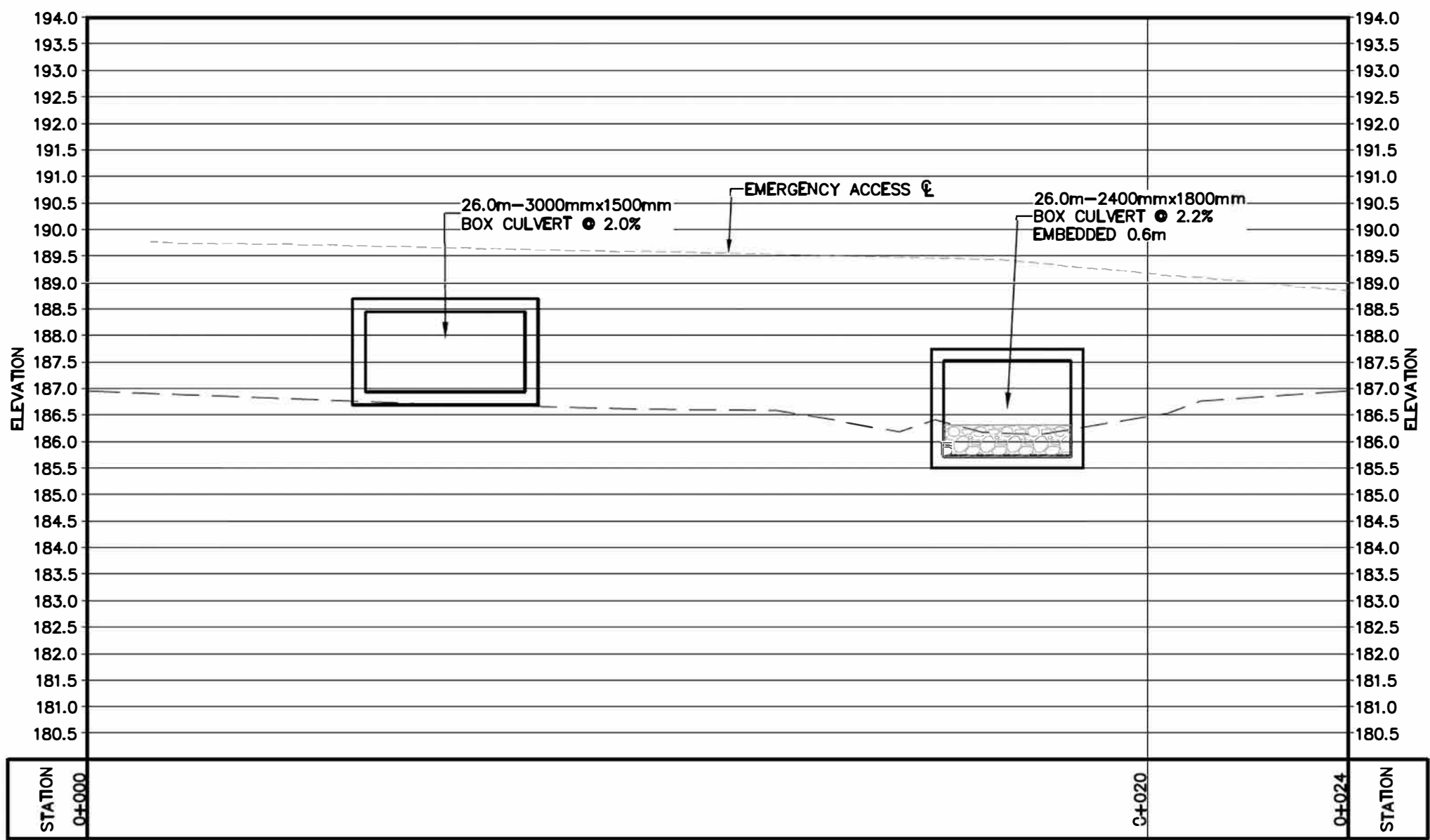
A-A WC 7 Culvert – Upstream



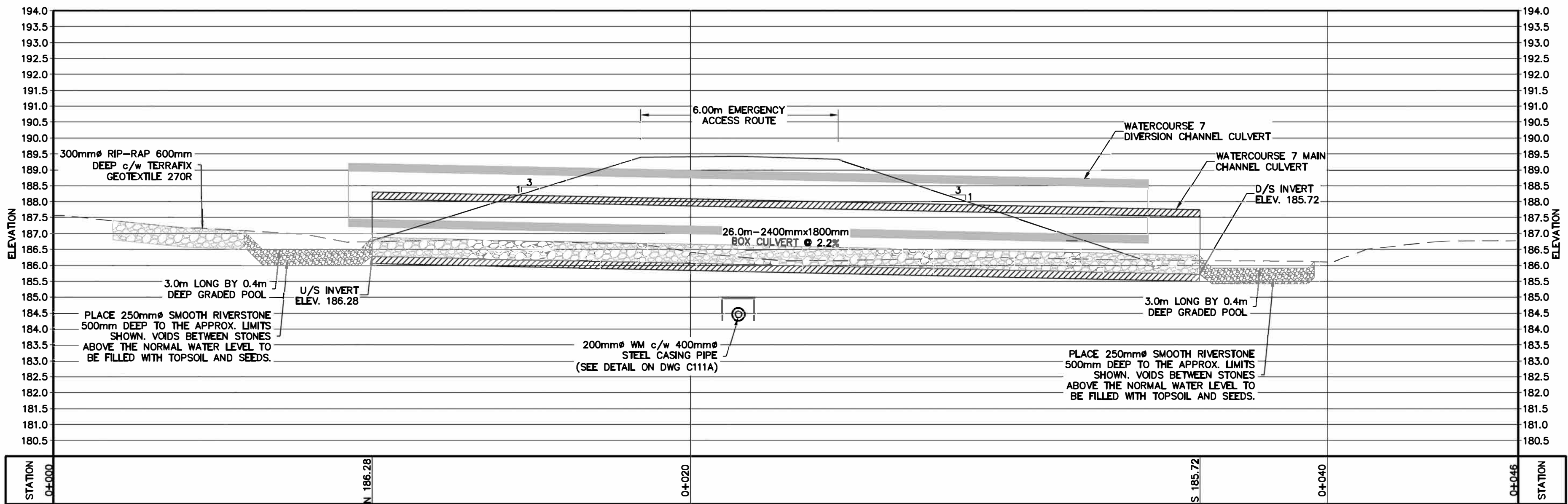
B-B Access Road



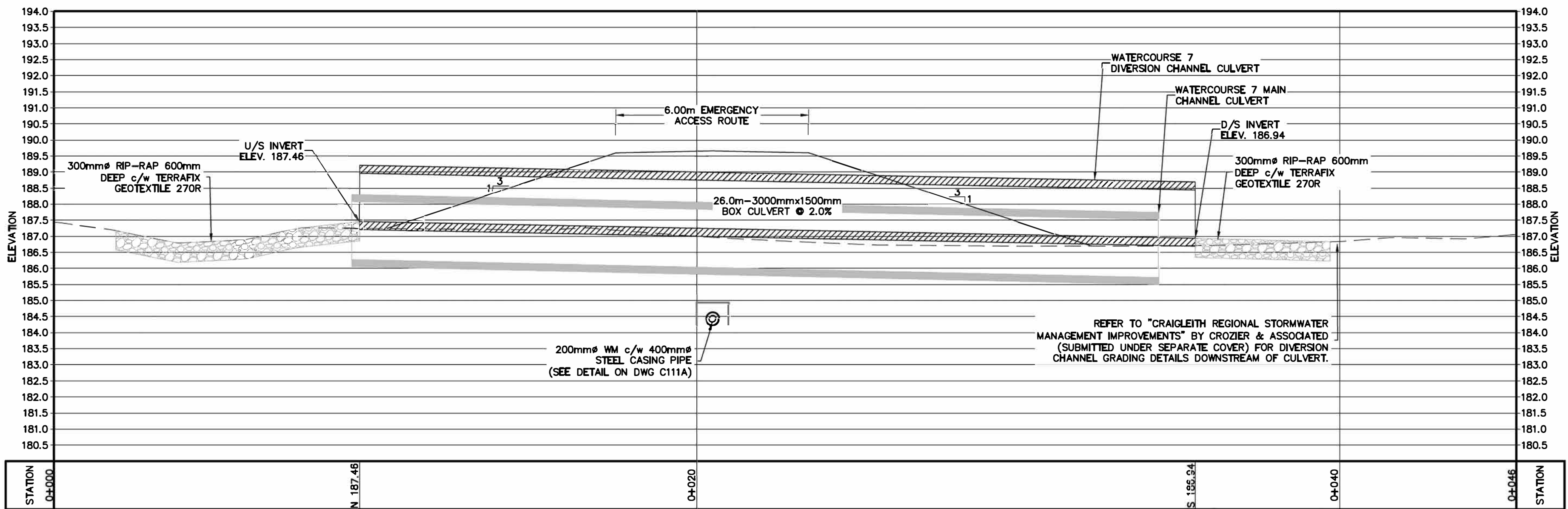
C-C WC 7 Culvert – Downstream



D-D WC 7 Culvert – Main



E-E WC 7 Culvert – Diversion



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WC7 CULVERT CROSSING – SECTION

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H 1:100