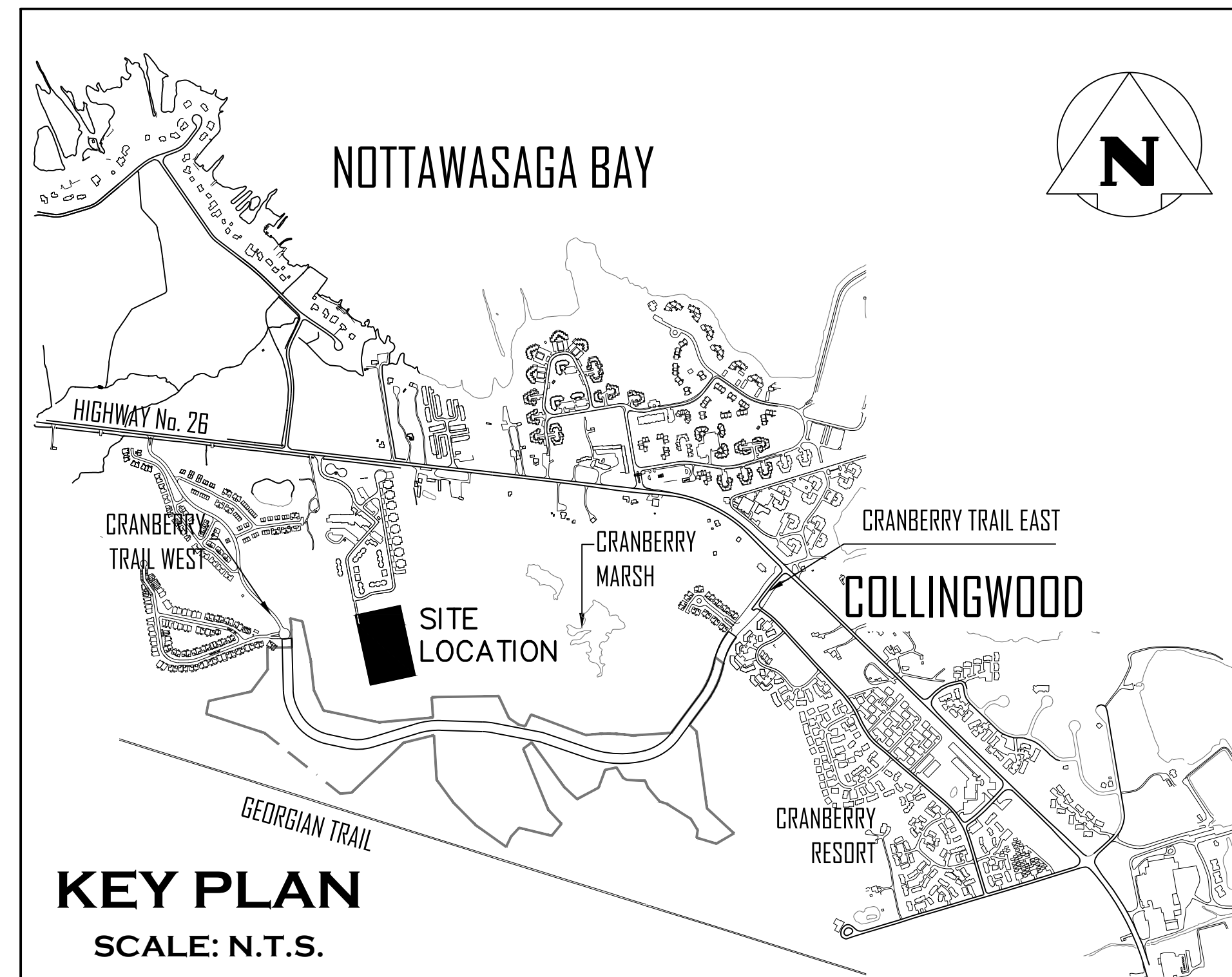


WYLDEWOOD CREEK

TOWN OF COLLINGWOOD

COUNTY OF SIMCOE



MUNICIPALITY

TOWN OF COLLINGWOOD
97 HURONTARIO STREET, P.O. BOX 157
COLLINGWOOD, ONTARIO, L9Y 3Z5

DEVELOPER

BRANDY LANE CORPORATION
4580 DUFFERIN STREET, SUITE 307
TORONTO, ONTARIO, M3H 5Y2

DEVELOPER'S ENGINEER AND LANDSCAPE ARCHITECT



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

ARCHITECT

CMV GROUP ARCHITECTS
247 SPADINA AVENUE, 4TH FLOOR
TORONTO, ONTARIO, M5T 3A8

DRAWING

TITLE

C100	COVER SHEET
C101	GENERAL SITE SERVICING PLAN
C102.A	OVERALL SITE GRADING PLAN (NORTH)
C102.B	OVERALL SITE GRADING PLAN (SOUTH)
C103.A	PLAN & PROFILE STREET 'A' (STA. 0+000 – 0+288.22)
C103.B	PLAN & PROFILE SERVICING EASEMENT
C104	CHANNEL PLAN & PROFILE AND GRADING DETAILS
C105	CULVERT CROSSING NOTES AND DETAILS
C106	SANITARY DRAINAGE PLAN
C107	STORM DRAINAGE PLAN
C108	WATER DISTRIBUTION PLAN
C109	EROSION AND SEDIMENT CONTROL PLAN
C110	COMPOSITE UTILITY PLAN
C111	CONSTRUCTION ACCESS ROAD PLAN
C112	VEHICLE MOVEMENT PLAN
C113.A	CONSTRUCTION NOTES & STANDARD DETAILS
C113.B	STANDARD DETAILS
E100	SITE PLAN – PHOTOMETRIC
E101	SITE LIGHTING DETAILS
LP1-6	LANDSCAPE PLANS
LD1-2	LANDSCAPE DETAILS
GEO-1	CHANNEL RESTORATION DESIGN PLANFORM AND PROFILE
DET-1	CHANNEL RESTORATION DESIGN RESTORATION DETAILS
DET-2	CHANNEL RESTORATION DESIGN RESTORATION DETAILS
PESC	CHANNEL RESTORATION DESIGN RESTORATION DETAILS

MASTER LEGEND

EXISTING FEATURES (EX.)

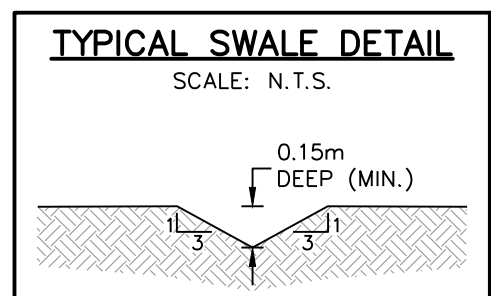
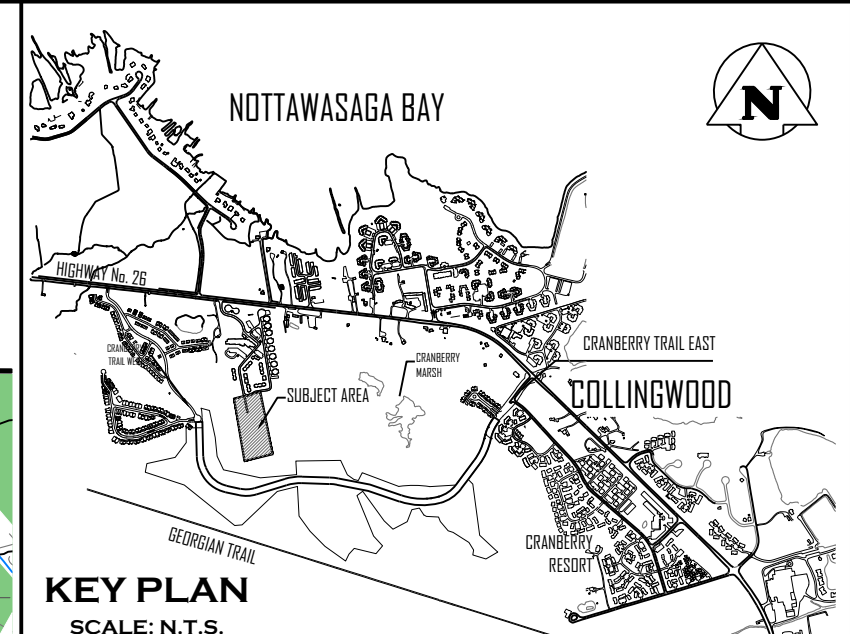
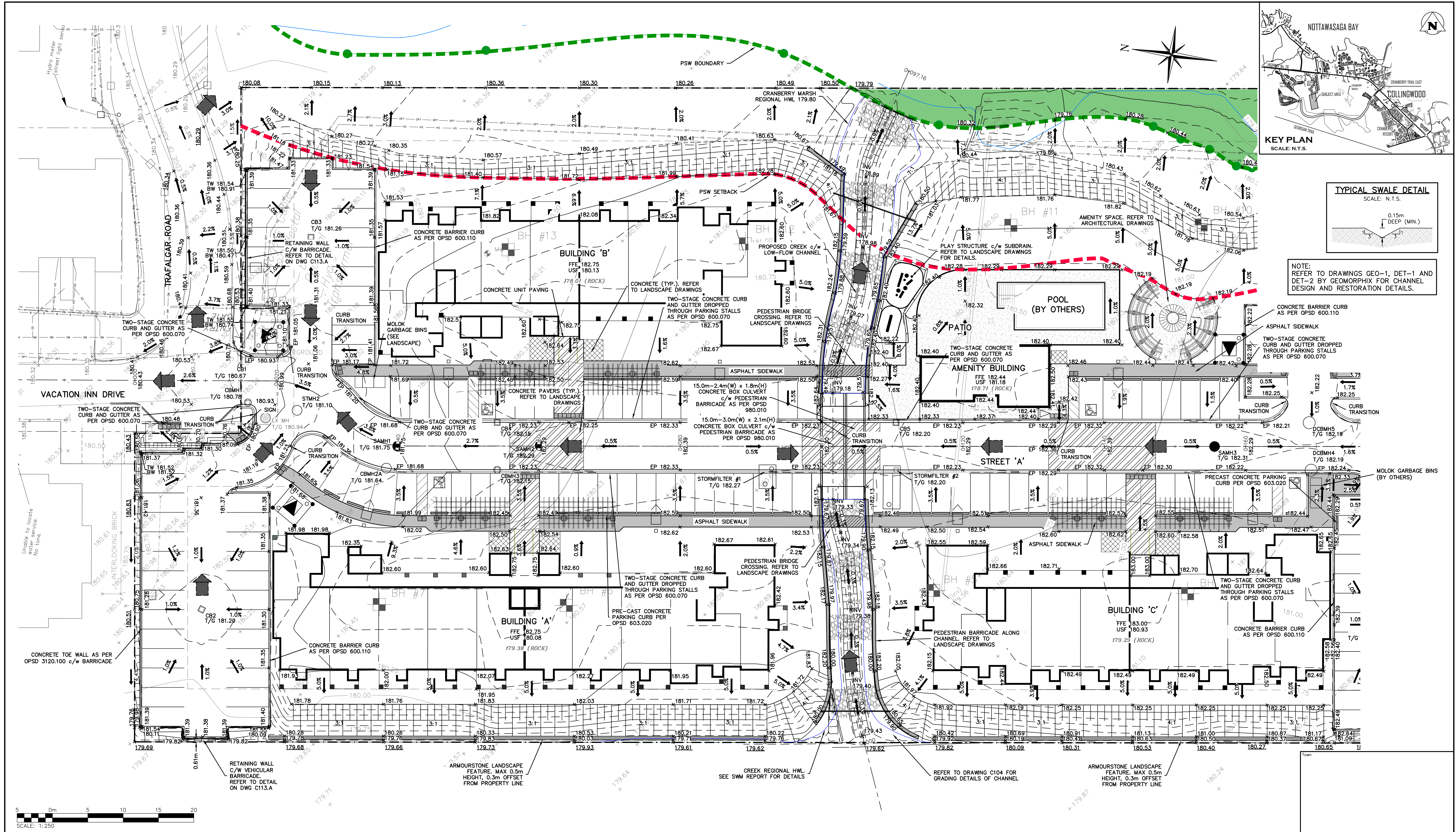
---XXX.X---	EX. CONTOUR
+XXX.XX	EX. GRADE
~~~~~	EX. TREELINE
=====	EX. WATERCOURSE
--->---	EX. DITCH
---XBM---	EX. WATERMAIN
---WS---	EX. WATER SERVICE
---FH---	EX. FIRE HYDRANT & VALVE
---SSAN---	EX. SANITARY SEWER & MANHOLE
---SFM---	EX. SANITARY FORCEMAIN
---SS---	EX. SANITARY SERVICE
---SSM---	EX. STORM SEWER & MANHOLE
□	EX. STORM CATCHBASIN
□	EX. STORM DOUBLE CATCHBASIN
○	EX. STORM CATCHBASIN MANHOLE
○	EX. STORM DOUBLE CATCHBASIN MANHOLE
---XGAS---	EX. GAS MAIN
---XB---	EX. BELL LINE
□	EX. BELL PEDESTAL
□	EX. CABLE TELEVISION PEDESTAL
○HP	EX. HYDRO POLE
○	EX. LIGHT STANDARD
+	EX. SIGN
▭	EX. BUILDING
⊕ BM #	EX. BENCHMARK NUMBER & LOCATION
⊕ BH #	EX. BOREHOLE NUMBER & LOCATION

PROPOSED FEATURES (PR.)

---	PR. PROPERTY LIMITS
+XXX.XX	PR. ELEVATION
+ EP XXX.XX	PR. EDGE OF PAVEMENT
+XXX.XX	PR. ELEVATION (MATCH EX. ELEVATION)
X.XX%	PR. SWALE & SLOPE
--->---	PR. DITCH DRAINAGE
---W---	PR. WATERMAIN & VALVE
---WS---	PR. WATER SERVICE
---FH---	PR. FIRE HYDRANT & VALVE
○	PR. WATER VALVE CHAMBER
□	PR. WATER QUALITY TESTING STATION
---SSAN---	PR. SANITARY SEWER & MANHOLE
---SFM---	PR. SANITARY FORCEMAIN
---	PR. SANITARY CATCHMENT
○	CATCHMENT AREA ID
0.14	AREA (ha)
POPULATION	POPULATION (1.9 p.p.u.)
---	PR. STORM SEWER & MANHOLE
□	PR. CATCHBASIN
□	PR. DOUBLE CATCHBASIN
○	PR. CATCHBASIN MANHOLE
○	PR. DOUBLE CATCHBASIN MANHOLE
---	PR. STORM CATCHMENT
○	CATCHMENT AREA ID
0.23 0.78	RUNOFF COEFFICIENT
---	DRAINAGE AREA (ha)
---	PR. CURB CUT
□	PR. CANADA POST COMMUNITY MAIL BOX
□	PR. TRANSFORMER AND GROUNDING GRID
○	PR. STREET LIGHT
SS	PR. STOP SIGN
NS	PR. NAME SIGN
NP	PR. NO PARKING SIGN
---	PR. FENCE
---	PR. BUILDING ENVELOPE
---	PR. LIGHT DUTY SILT FENCE
---	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

**PROJECT No.: 1535-4897  
6TH SUBMISSION**





NOTE: REFER TO DRAWINGS GEO-1, DET-1 AND DET-2 BY GEOMORPH FOR CHANNEL DESIGN AND RESTORATION DETAILS.



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BENCHMARKS	
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE RELATED TO TOWN OF COLLINGWOOD BENCH MARK NO. 00172U311 HAVING AN ELEVATION OF 181.032 METRES.	
TOPOGRAPHIC SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., DATED AUGUST 25, 2018.	

No.	ISSUE	DATE: MM/DD/YYYY
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6	ISSUED FOR 5th ENGINEERING SUBMISSION	04/10/2024
7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024

Engineer

**K. A. MORRIS**  
LICENSED PROFESSIONAL ENGINEER  
PROVINCE OF ONTARIO

Engineer

**R. A. ALEXANDER**  
LICENSED PROFESSIONAL ENGINEER  
100213093  
PROVINCE OF ONTARIO

Project

WYLDWOOD CREEK  
TOWN OF COLLINGWOOD

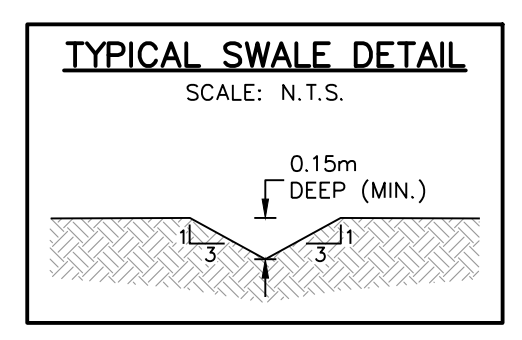
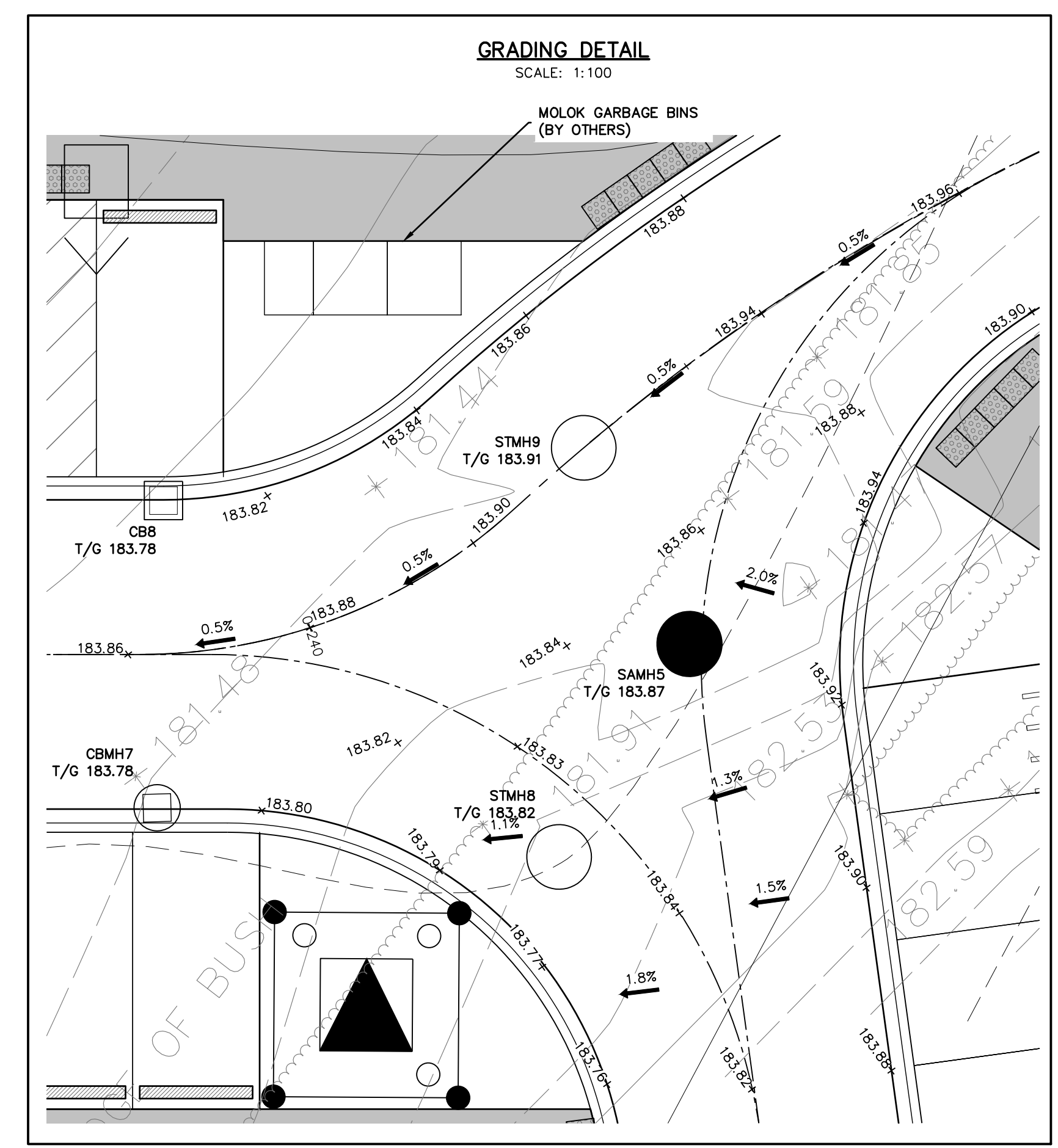
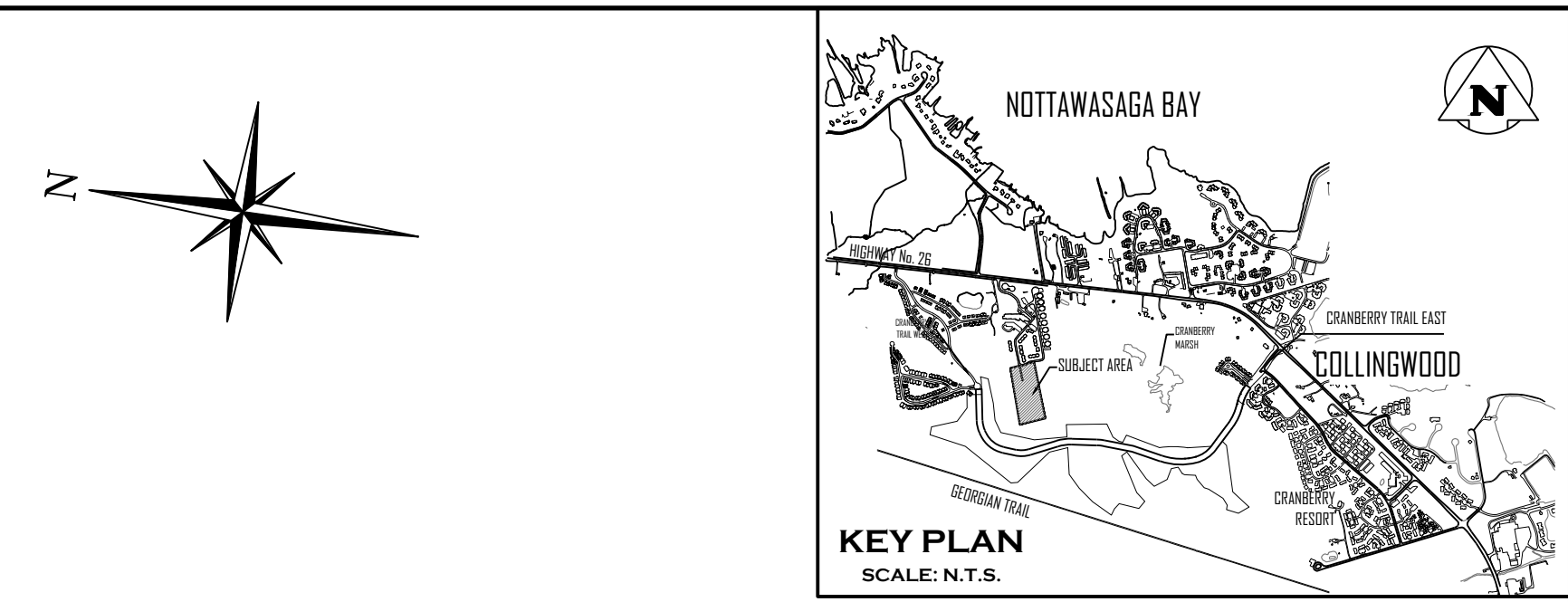
Drawing

OVERALL SITE GRADING PLAN  
(NORTH)

**CROZIER**  
CONSULTING ENGINEERS

Drawn By: L.W. Design By: L.W. Project: 1535-4897

Check By: K.M. Check By: R.A. Scale: 1:250 Drawing: C102.A



NOTE: ALL GRADE ELEVATIONS ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED.

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7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024

Engineer: **K. A. MORRIS**  
 LICENSED PROFESSIONAL ENGINEER  
 PROVINCE OF ONTARIO  
 Dec. 2017

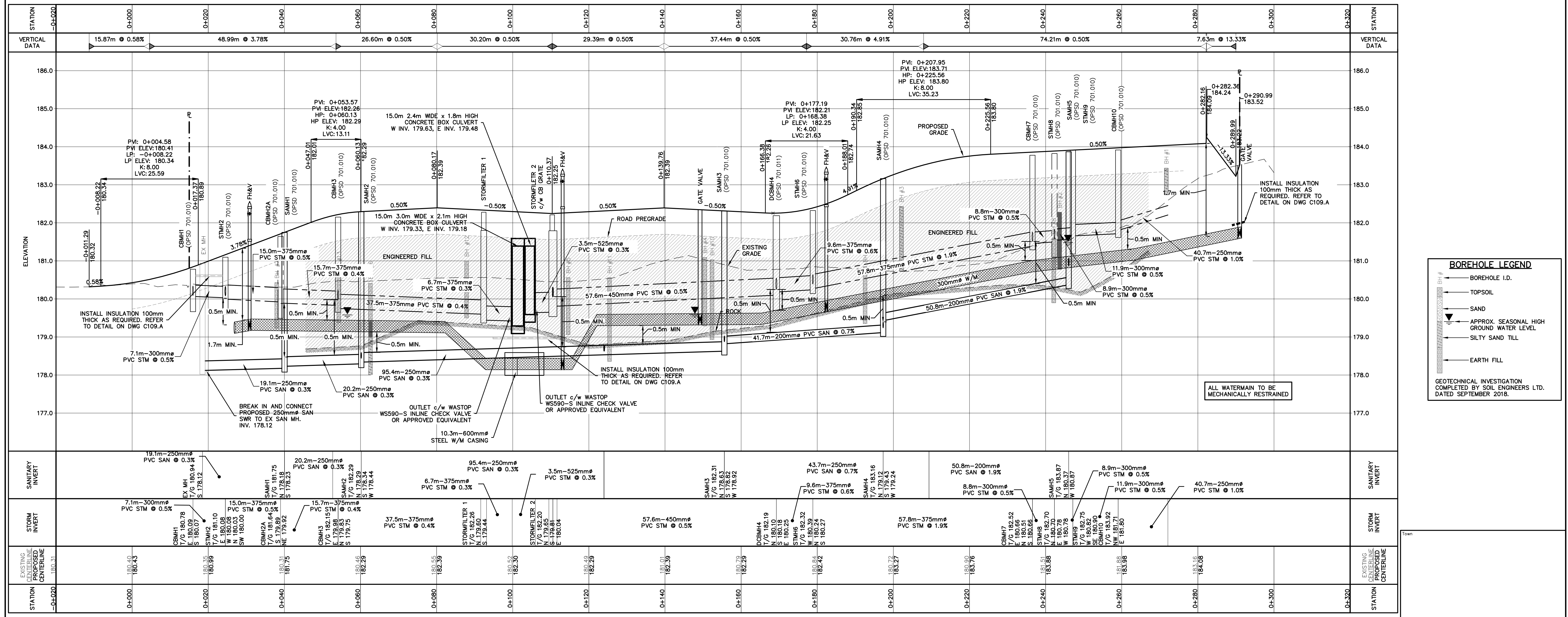
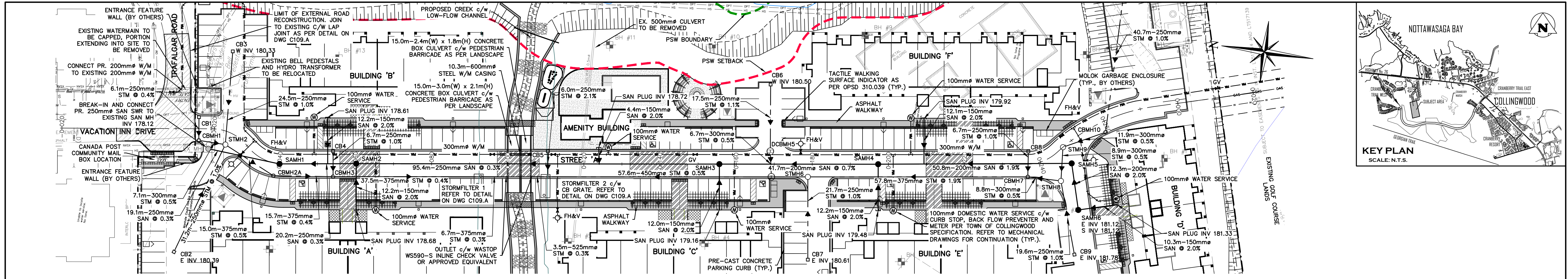
Engineer: **R.A. ALEXANDER**  
 LICENSED PROFESSIONAL ENGINEER  
 PROVINCE OF ONTARIO  
 December 20, 2024

Project: **WYLDEWOOD CREEK TOWN OF COLLINGWOOD**

Drawing: **OVERALL SITE GRADING PLAN (SOUTH)**

Drawn By: L.W. Design By: L.W. Project: **1535-4897**

Check By: K.M. Check By: R.A. Scale: 1:250 Drawing: **C102.B**



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TOPOGRAPHIC SURVEY COMPLETED BY KROMAR SURVEYORS LTD., DATED AUGUST 25, 2018.	

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7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024

Engineer  
  
 K.A. MORRIS  
 100213093  
 PROVINCE OF ONTARIO

Engineer  
  
 R.A. ALEXANDER  
 100213093  
 PROVINCE OF ONTARIO

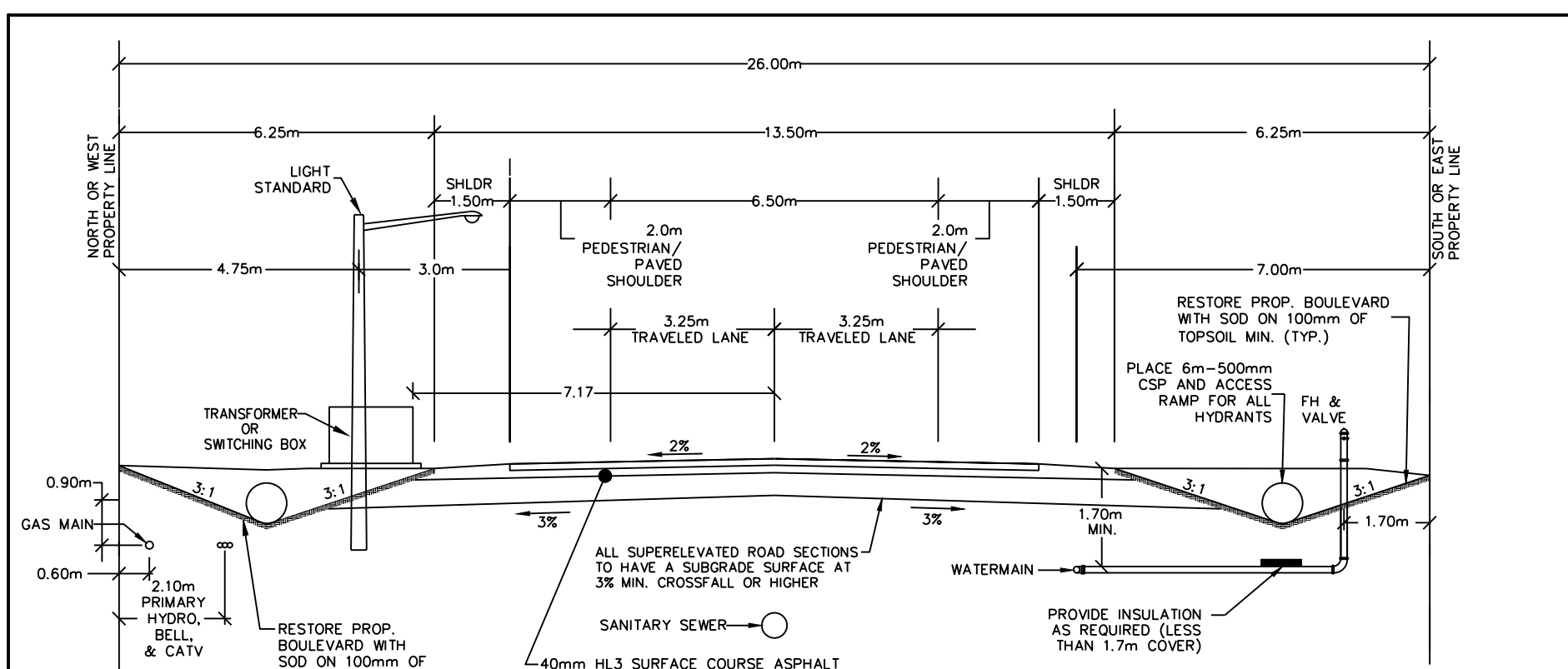
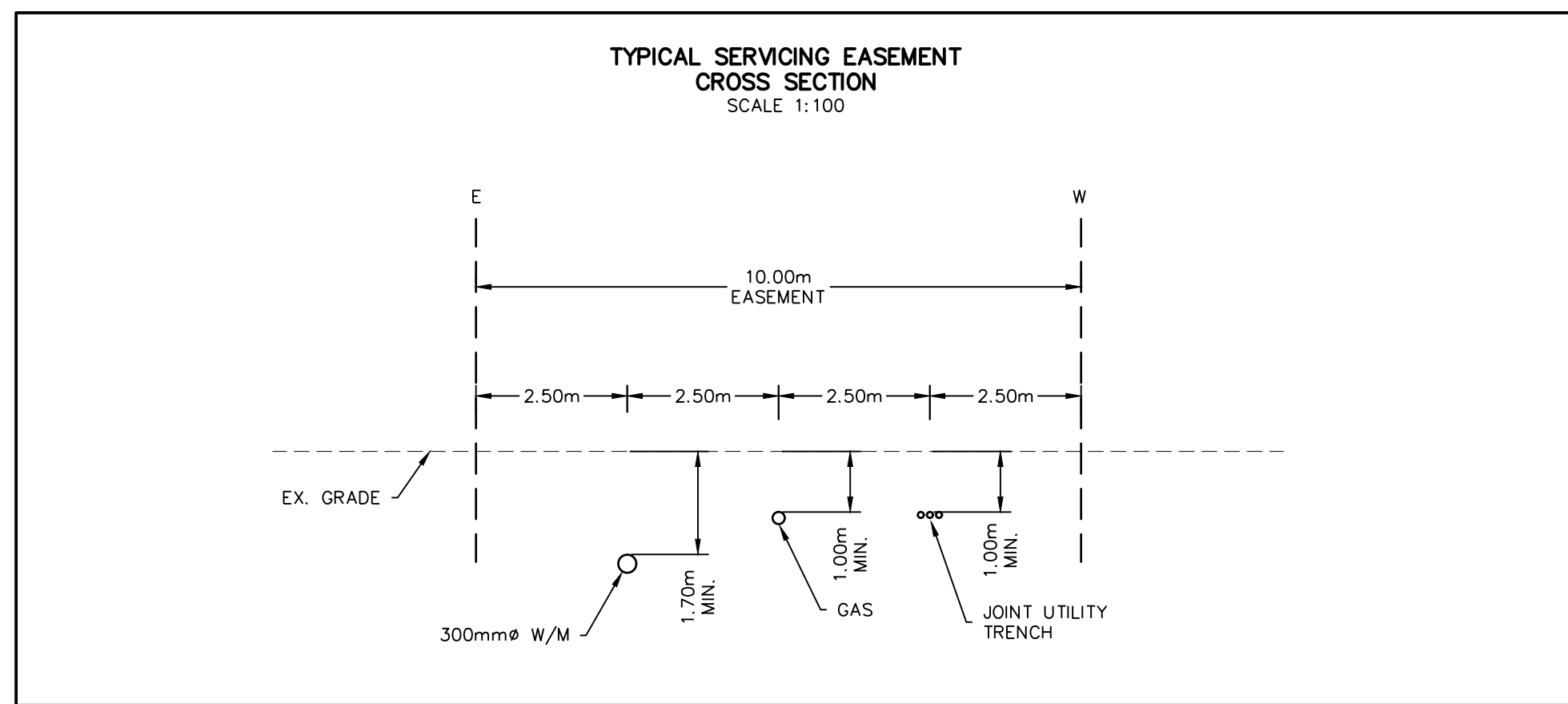
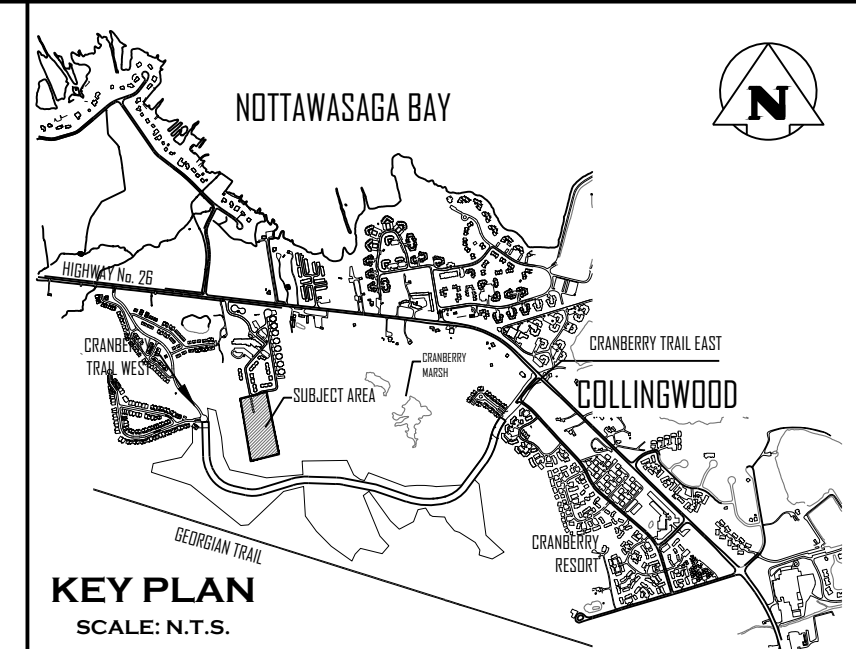
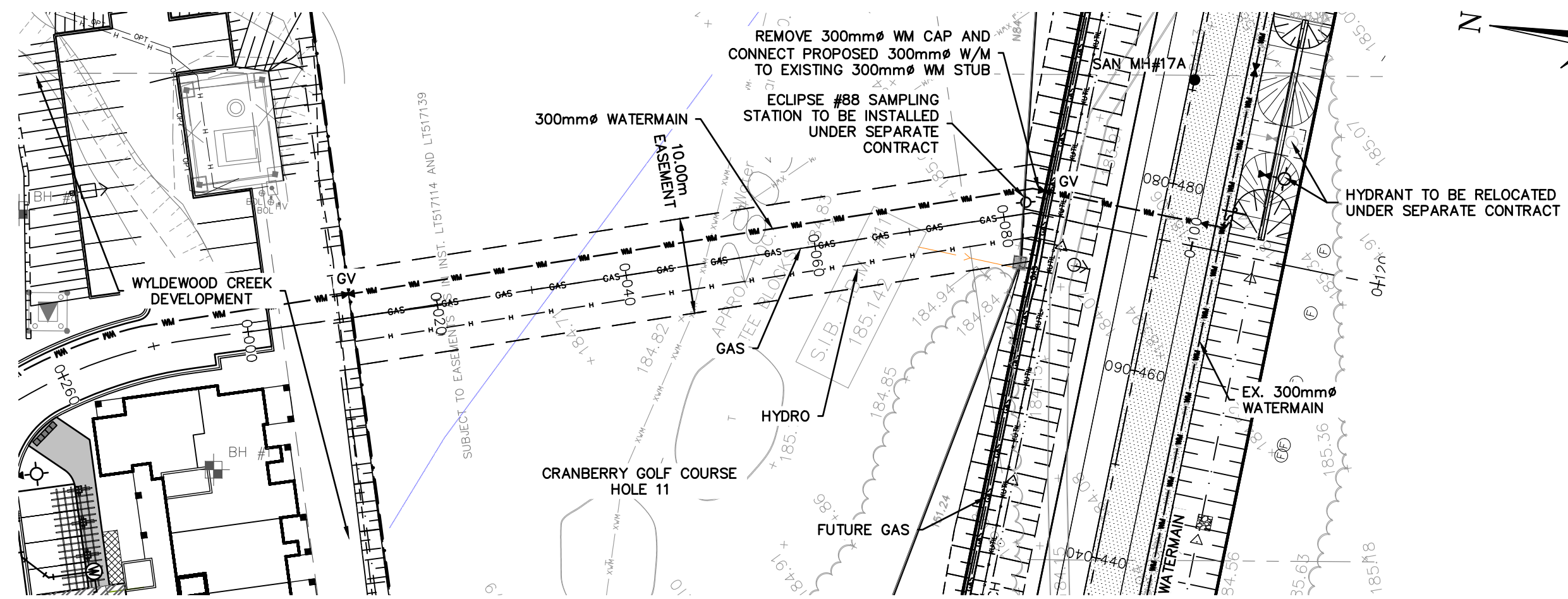
Project  
**WYLDEWOOD CREEK**  
**TOWN OF COLLINGWOOD**

Drawing  
**PLAN & PROFILE STREET 'A'**  
**(STA 0+000 - 0+288.22)**

**CROZIER**  
CONSULTING ENGINEERS

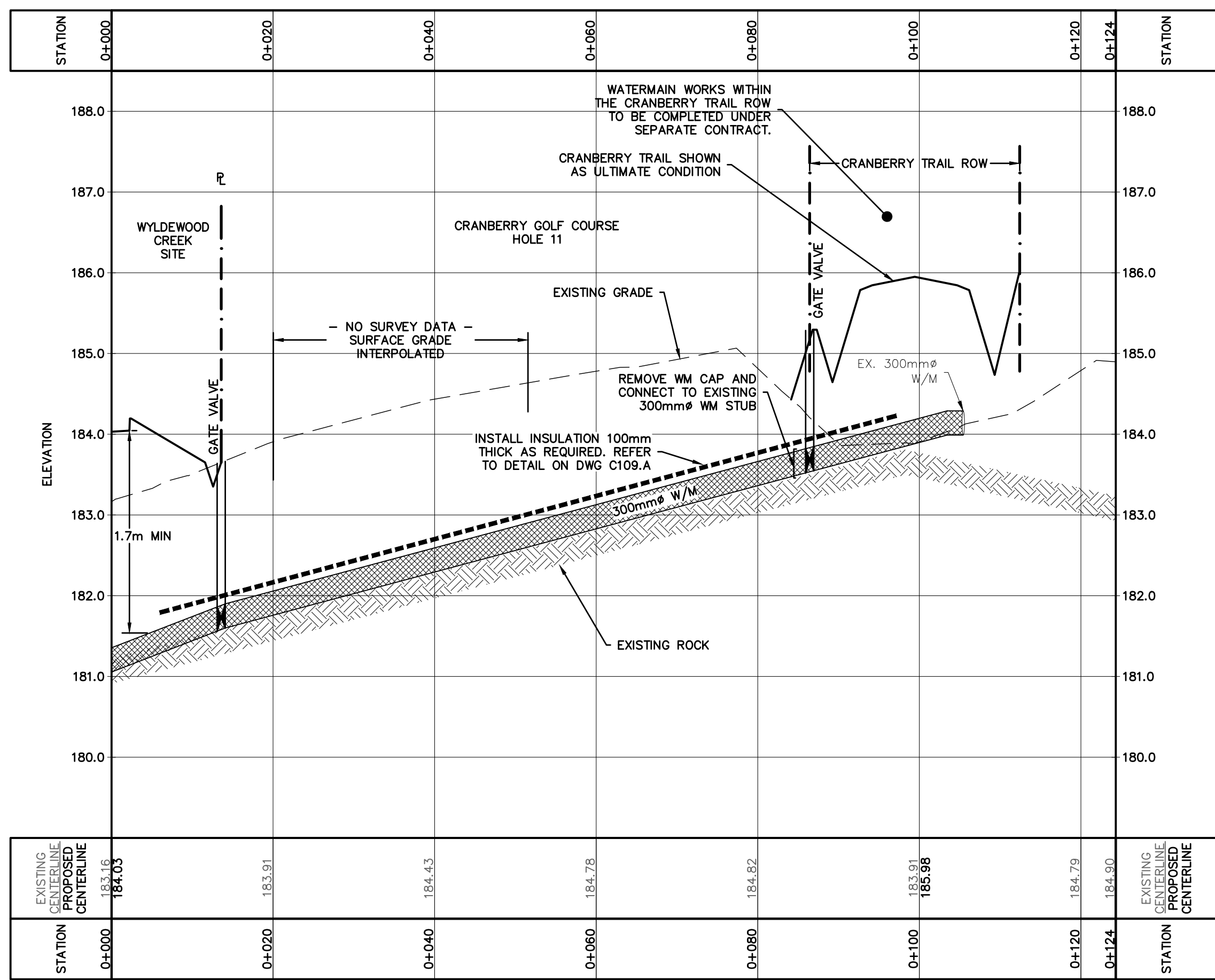
Drawn By: L.W. Design By: L.W. Project: **1535-4897**

Check By: K.M. Check By: R.A. Scale: H: 1:500 V: 1:50 Drawing: **C103.A**



**TOWN OF COLLINGWOOD**  
**CRANBERRY TRAIL RURAL ROAD**  
**MODIFIED 26m ROW CROSS-SECTION**  
**STA 0+616 - 0+924**

SCALE: NTS CHECKED: I.T.M. DATE: April 2023  
 DRAWN: J.R.S. DRAWING: COLLINGWOOD-26m-CRANBERRY TRAIL



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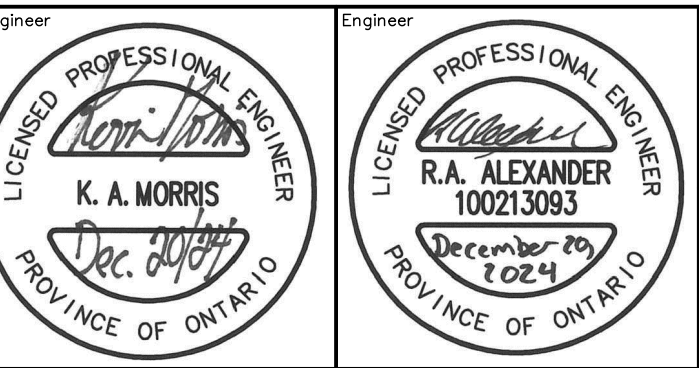
**BENCHMARKS**

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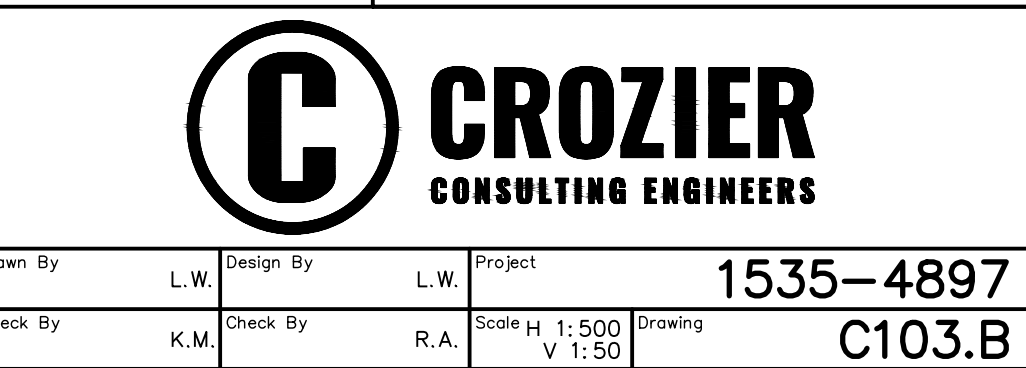
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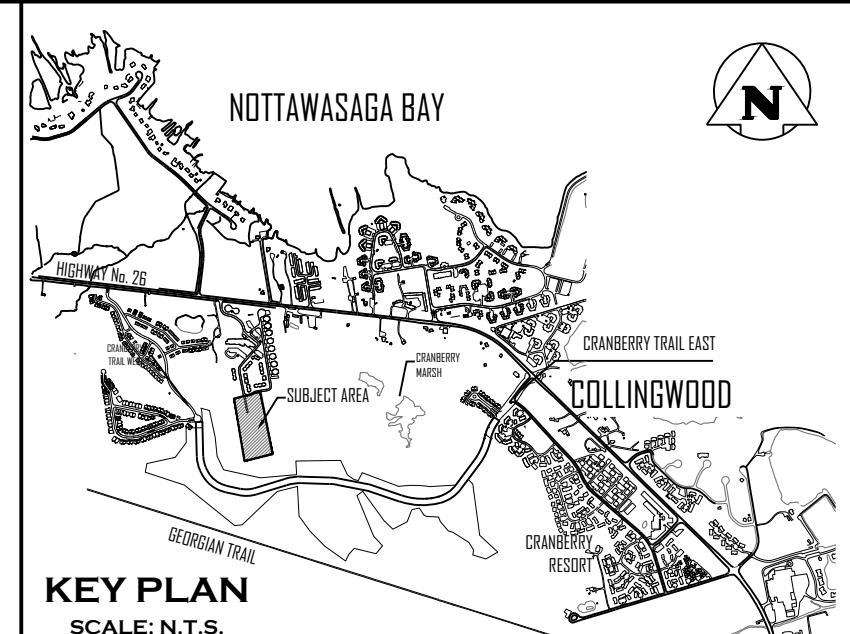
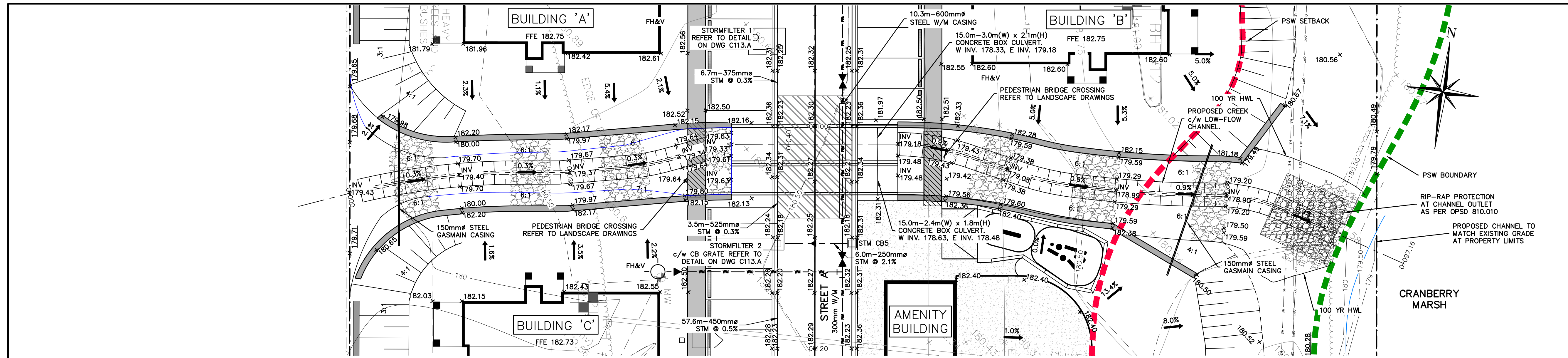
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Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD  
 Drawing: PLAN & PROFILE SERVICING EASEMENT



Drawn By: L.W. Design By: L.W. Project: 1535-4897  
 Check By: K.M. Check By: R.A. Scale H: 1:500 Drawing: C103.B  
 V: 1:50

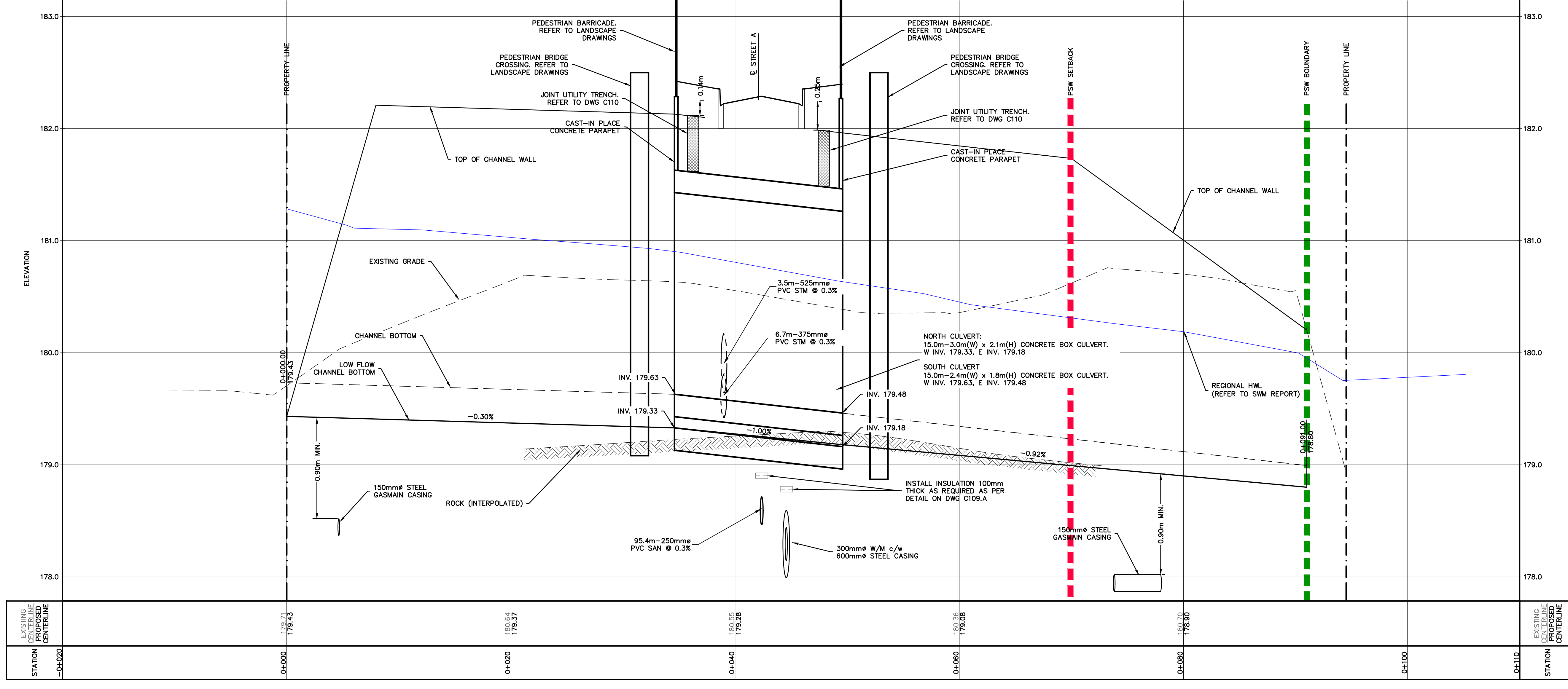




NOTE:  
GRADING AND RIP-RAP EROSION PROTECTION AT CHANNEL OUTLET TO BE FIELD FIT TO ENSURE POSITIVE DRAINAGE TO CRANBERRY MARSH

NOTE:  
REFER TO DRAWINGS GEO-1, DET-1 AND DET-2 BY GEOMORPHIX FOR CHANNEL DESIGN AND RESTORATION DETAILS.

NOTE:  
CONTRACTOR TO OBTAIN AND PROVIDE SEALED SHOP DRAWINGS WITH ENGINEER'S STAMP FOR CONCRETE CULVERTS, RETAINING WALLS AND PARAPET HEADWALLS.



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Engineer  
  
 K. A. MORRIS  
 100213093  
 December 20, 2024  
 PROVINCE OF ONTARIO

Engineer  
  
 R. A. ALEXANDER  
 100213093  
 December 20, 2024  
 PROVINCE OF ONTARIO

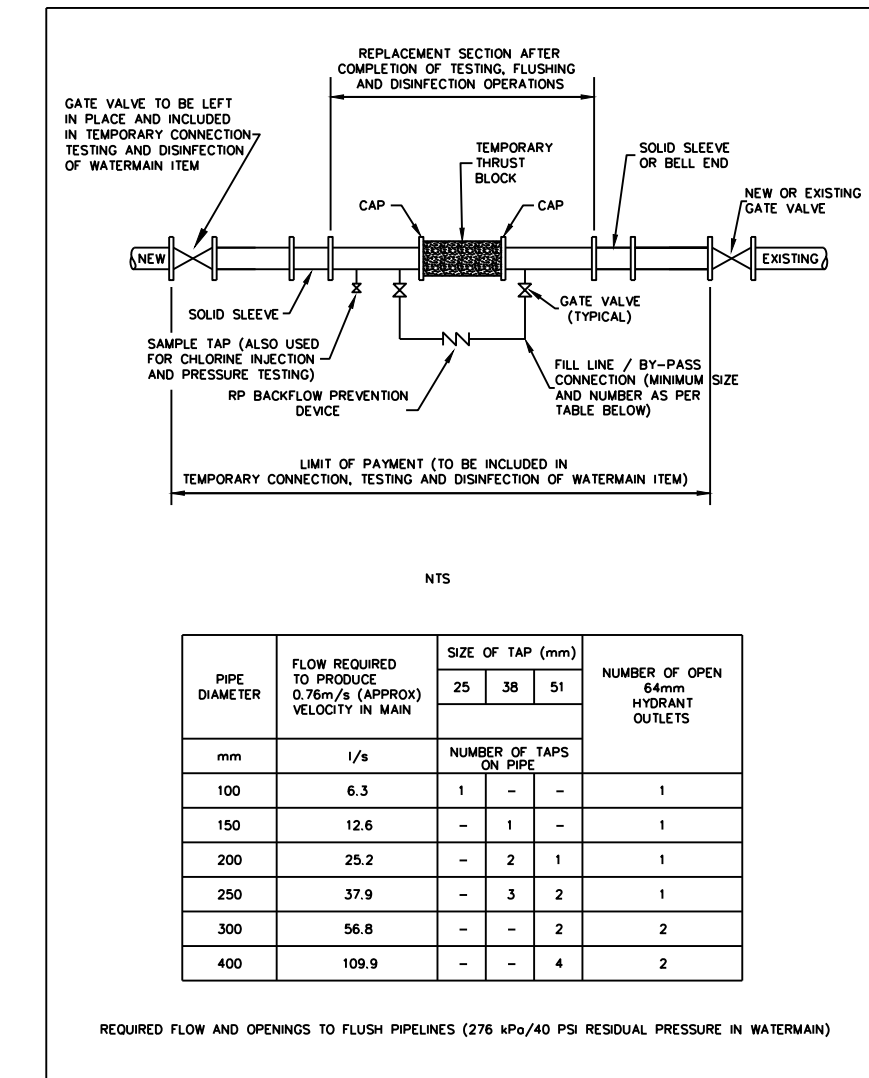
Project  
**WYLDEWOOD CREEK**  
**TOWN OF COLLINGWOOD**

Drawing  
**CHANNEL PLAN & PROFILE**  
**AND GRADING DETAILS**

**CROZIER**  
CONSULTING ENGINEERS

Drawn By: L.W. Design By: L.W. Project: **1535-4897**

Check By: K.M. Check By: R.A. Scale: H 1:200 V 1:20 Drawing: **C104**



NOTE:  
GRADING AND RIP-RAP EROSION PROTECTION AT CHANNEL OUTLET TO BE FIELD FIT TO ENSURE POSITIVE DRAINAGE TO CRANBERRY MARSH

NOTE:  
REFER TO DRAWINGS GEO-1, DET-1 AND DET-2 BY GEOMORPHIX FOR CHANNEL DESIGN AND RESTORATION DETAILS.

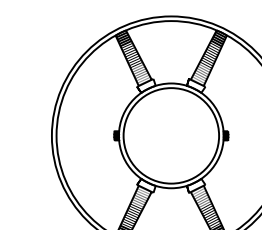
NOTE:  
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### CASING SPACERS

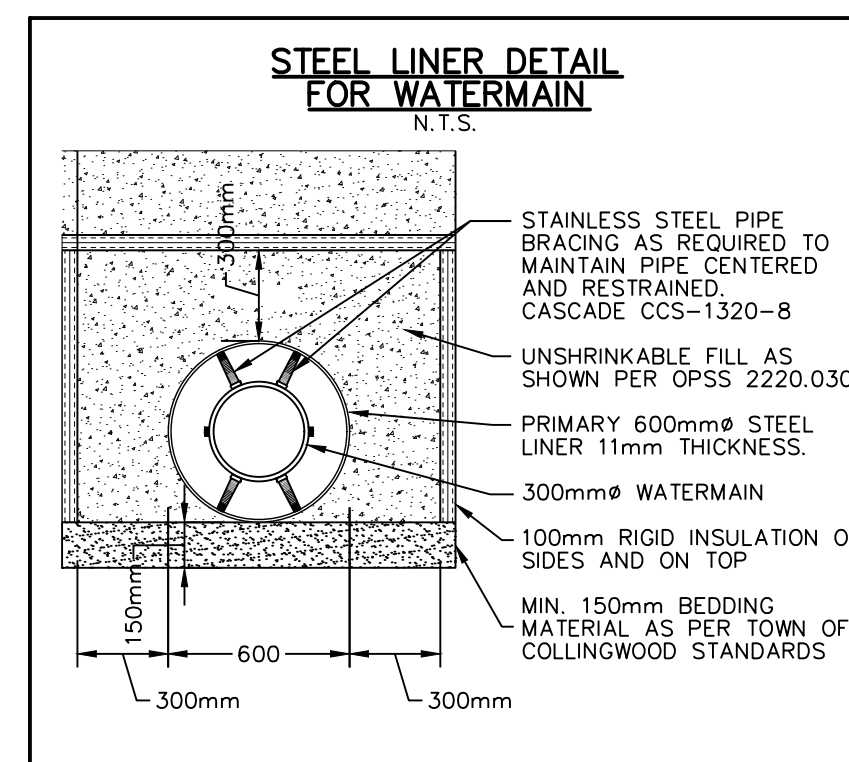
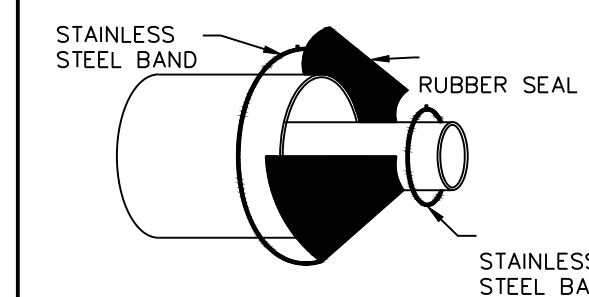
- CASCADE: CCS - 1320-8 (OR APPROVED EQUAL)

#### NOTES:

- CONTRACTOR TO SUBMIT SHOP DRAWINGS OF MATERIAL AND INSTALLATION METHODOLOGY FOR REVIEW AND APPROVAL.
- ALL CASING SPACERS ARE TO BE MADE OF T-304 STAINLESS STEEL.
- BEARING SURFACES (RUNNERS) SHALL BE ULTRA HIGH MOLECULAR WEIGHT POLYMER OR EQUIVALENT.
- POSITIONING OF SPACERS ALONG THE WATERMAIN IS TO BE AS PER MANUFACTURER'S SPECIFICATIONS.
- POSITION OF WATERMAIN WITHIN LINER TO BE CENTERED AND RESTRAINED, SUFFICIENT ENOUGH TO PROVIDE NO LESS THAN 19mm (¾") CLEARANCE BETWEEN THE CASING PIPE AND THE OUTSIDE DIAMETER OF THE BELL.



- WATERMAIN SHALL BE RESTRAINED Laterally FOR THE ENTIRE LENGTH OF THE LINER PLUS ONE FULL PIPE LENGTH BEYOND END OF CASING.
- LINER TO BE SEALED USING WRAP AROUND RUBBER ENDS COMPLETE WITH STAINLESS STEEL (T-304) BANDING.



### GENERAL CONSTRUCTION SCHEDULE

- IN STREAM WORKS TO COMPLY WITH NVCA TIMING GUIDELINES AND ASSOCIATED PERMITTING.
- MAINTAIN TEMPORARY WATER MANAGEMENT WORKS AND OVERLAND SPILL ROUTE PRIOR TO ANY EXCAVATION.
- COMPLETE ASSOCIATED SEDIMENT CONTROLS, CULVERT AND UNDERGROUND SERVICES ENSURING WORKING IN THE DRY AT ALL TIMES.

#### GENERAL NOTES

- ALL WORK TO BE PERFORMED IN DRY DEWATERED CONDITIONS USING APPROVED WATER MANAGEMENT PLAN.
- NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30 METRES OF WATERCOURSE.
- ALL SEDIMENT & EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO EXCAVATION WORKS COMMENCING.
- ALL TEMPORARY SOIL OR DIRT TO BE STOCKPILED PER DESIGNATED AREAS.
- FLOW INFORMATION PROVIDED HEREIN CONCERNING CRANBERRY MARSH OUTLET FOR CONTRACTOR USE ONLY.
- THE SEDIMENT & EROSION CONTROLS SPECIFIED HEREIN DO NOT NECESSARILY CONSTITUTE ALL MEASURES REQUIRED GIVEN FIELD CONDITIONS. CONTRACTOR TO PROVIDE ANY SUPPLEMENTARY SEDIMENT & EROSION CONTROL MEASURES AS REQUIRED TO ENSURE NO RELEASE OF DELETERIOUS SUBSTANCES TO WATERCOURSE.
- FINAL RETAINING WALL DESIGN SPECIFICATIONS TO BE CONFIRMED AND APPROVED BY ENGINEER

#### GENERAL BRIDGE NOTES

- FOOTING DETAILS (DIMENSIONS & REINFORCING) FOR MUNICIPAL APPROVAL PROCESS ONLY. ACTUAL SIZE OF FOOTINGS AND REINFORCING AS PER DESIGN BY CONTRACTOR.
- FOOTINGS ARE ASSUMED TO BE FOUNDED ON BEDROCK; CONTRACTOR TO CONFIRM IN FIELD.
- DESIGN IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA-S6-06).
- CONTRACTOR IS TO EXPOSE THE BEDROCK AROUND THE PROPOSED FOOTING FOR REVIEW BY GEOTECHNICAL ENGINEER. ANY LOOSE OR DELETERIOUS MATERIALS SHALL BE REMOVED AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
- CLASS OF CAST-IN-PLACE CONCRETE = 30 MPa.
- CLEAR COVER TO REINFORCING:
  - FOOTINGS = 100x25
  - DISTRIBUTION SLAB = AS NOTED ON DWG.
- BAR MARKS WITH SUFFIX 'C' DENOTE COATED BARS.
- REINFORCING BARS SHALL BE GRADE 400 MPa.
- CONTRACTOR TO PROVIDE MIN. 0.75m GRANULAR ABOVE CULVERT STRUCTURE DURING CONSTRUCTION.

#### REQUIREMENTS FOR THE CONTRACTOR

- PROVIDE STAMPED SHOP DRAWINGS INDICATING THAT THE BRIDGE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC) (CAN/CSA-S6-06). CONTRACTOR TO ALSO PROVIDE COPIES OF ALL SHOP DRAWINGS TO THE TOWN FOR THEIR RECORDS.
- SUBMISSION SHALL INCLUDE DETAILS ON REACTION LOADS, BOTH HORIZONTAL & VERTICAL, TO BE RESISTED BY FOUNDATION AS WELL AS DETAILS ON PROPOSED ANCHORAGE FOR CULVERT & FOOTINGS.
- ENSURE THAT THE SHOP DRAWINGS ARE SPECIFIC TO THIS CONTRACT, AND REFERENCED TO CFCA PROJECT No. 1535-4897, AND NOT A "STOCK ITEM".
- ENSURE THAT SHOP DRAWINGS SHOW AND SPECIFY ALL JOINT FILLERS, SEALS AND COMPOUNDS, GROUT, AND GEOTEXTILE INSTALLATIONS AND APPLICATIONS.

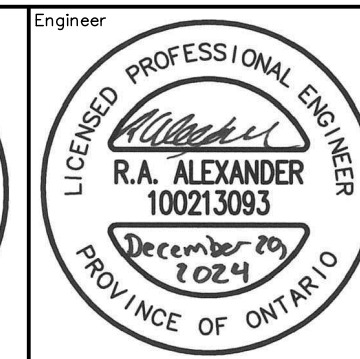
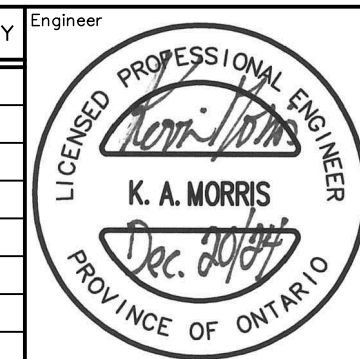
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### BENCHMARKS

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE RELATED TO TOWN OF COLLINGWOOD BENCH MARK NO. 00172U311 HAVING AN ELEVATION OF 181.032 METRES.

TOPOGRAPHIC SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., DATED AUGUST 25, 2018.

No.	ISSUE	DATE: MM/DD/YYYY
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7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024



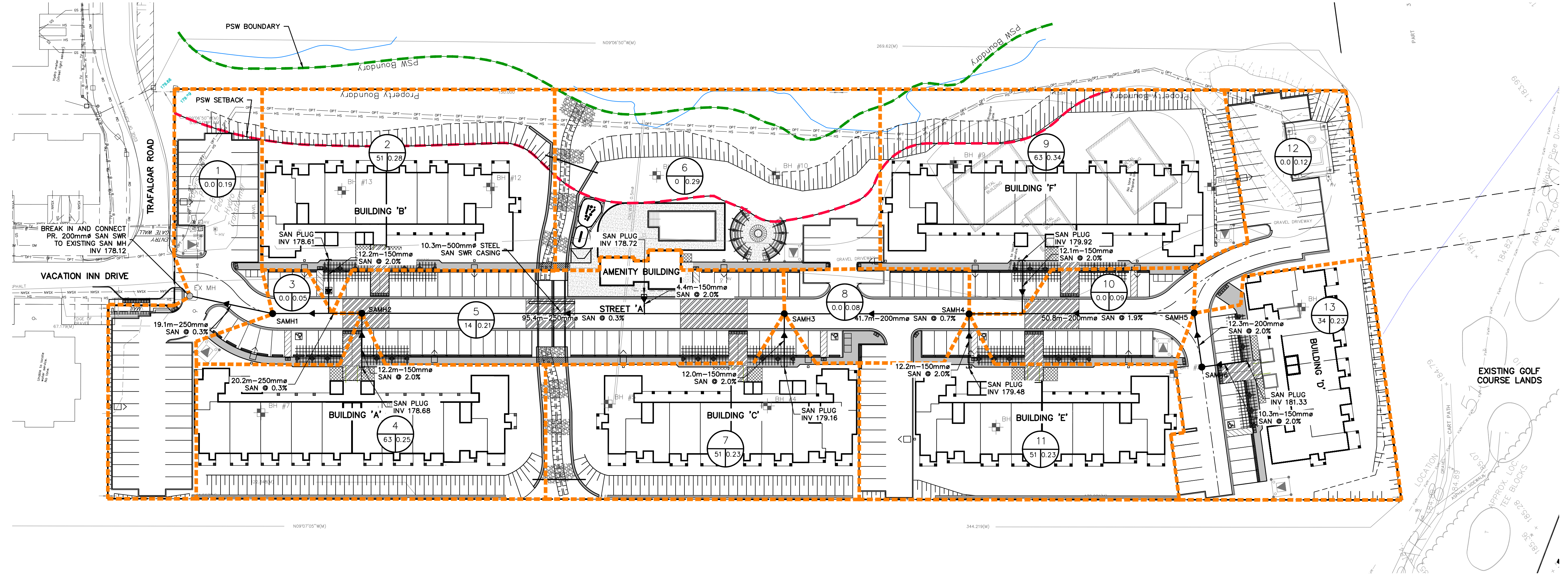
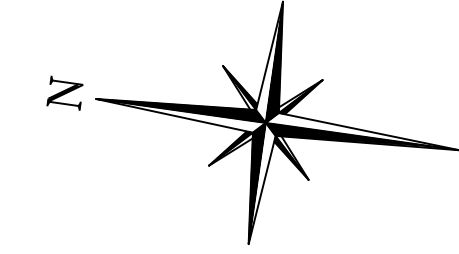
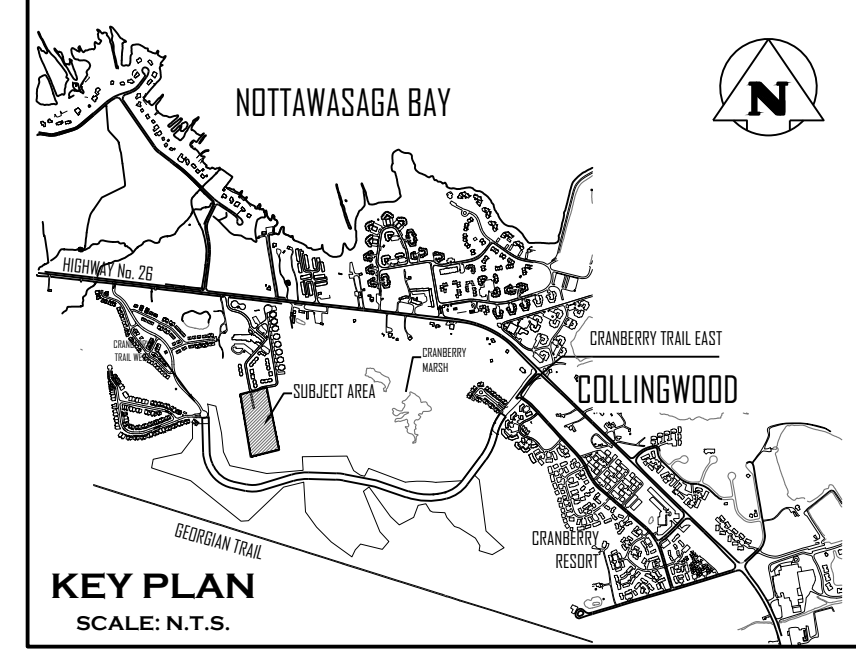
Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD

Drawing: CULVERT CROSSING NOTES AND DETAILS

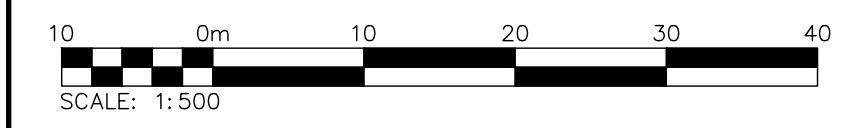


Drawn By: L.W. Design By: L.W. Project: 1535-4897

Check By: K.M. Check By: R.A. Scale: AS NOTED Drawing: C105



ALL SANITARY SERVICES TO BE TERMINATED 3.0m OFFSET FROM BUILDING



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Engineer  
  
 K. A. MORRIS  
 Dec. 2019

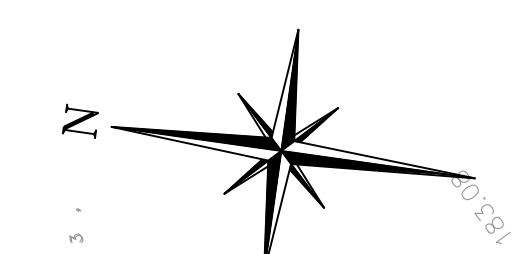
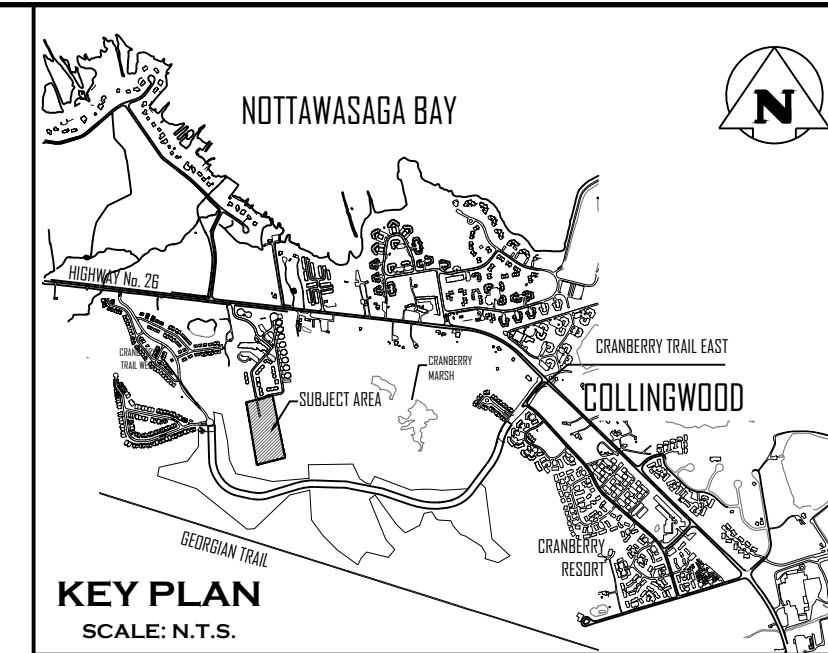
Engineer  
  
 R. A. ALEXANDER  
 December 20, 2024

Project  
**WYLDEWOOD CREEK**  
**TOWN OF COLLINGWOOD**

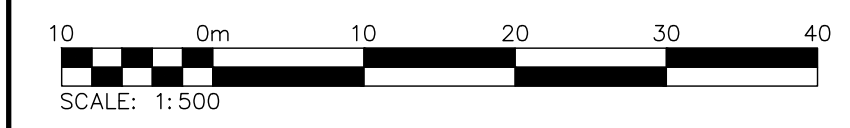
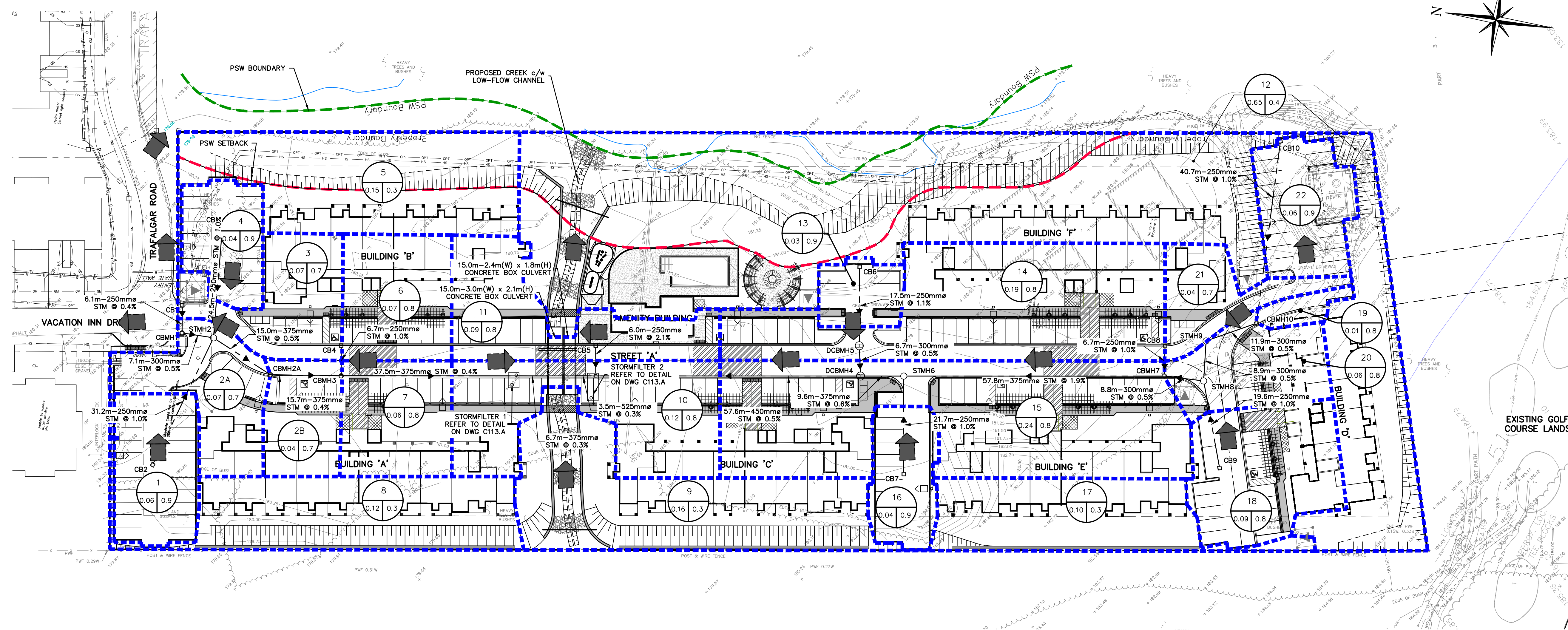
Drawing  
**SANITARY DRAINAGE PLAN**

**CROZIER**  
 CONSULTING ENGINEERS

Drawn By: L.W. Design By: L.W. Project: **1535-4897**  
 Check By: K.M. Check By: R.A. Scale: 1:500 Drawing: **C106**



NOTE: ROOFS TO DISCHARGE TO LANDSCAPED AREAS



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Engineer  
**K. A. MORRIS**  
 LICENSED PROFESSIONAL ENGINEER  
 PROVINCE OF ONTARIO  
 Dec. 2019

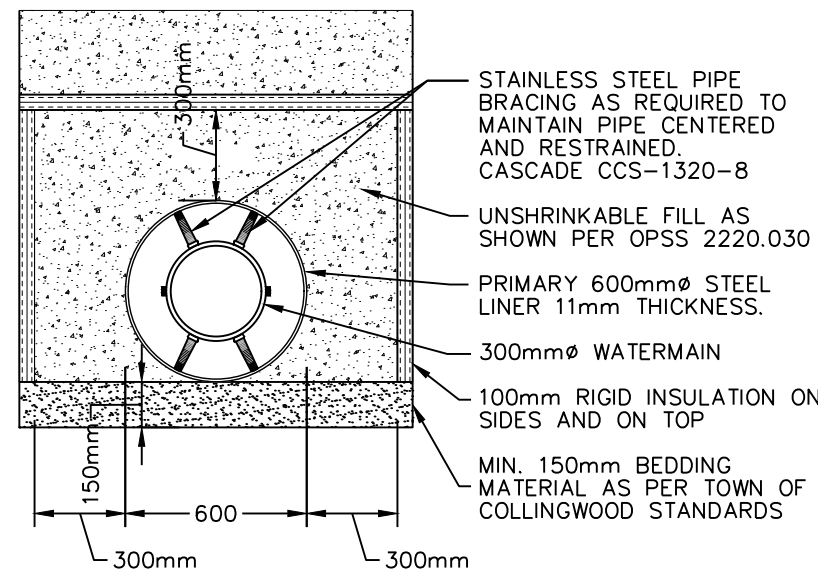
Engineer  
**R.A. ALEXANDER**  
 LICENSED PROFESSIONAL ENGINEER  
 100213093  
 PROVINCE OF ONTARIO  
 December 20, 2024

Project  
**WYLDEWOOD CREEK  
 TOWN OF COLLINGWOOD**

Drawing  
**STORM DRAINAGE PLAN**

Drawn By: L.W. Design By: L.W. Project: **1535-4897**  
 Check By: K.M. Check By: R.A. Scale: 1:500 Drawing: **C107**

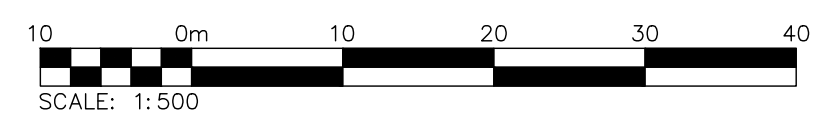
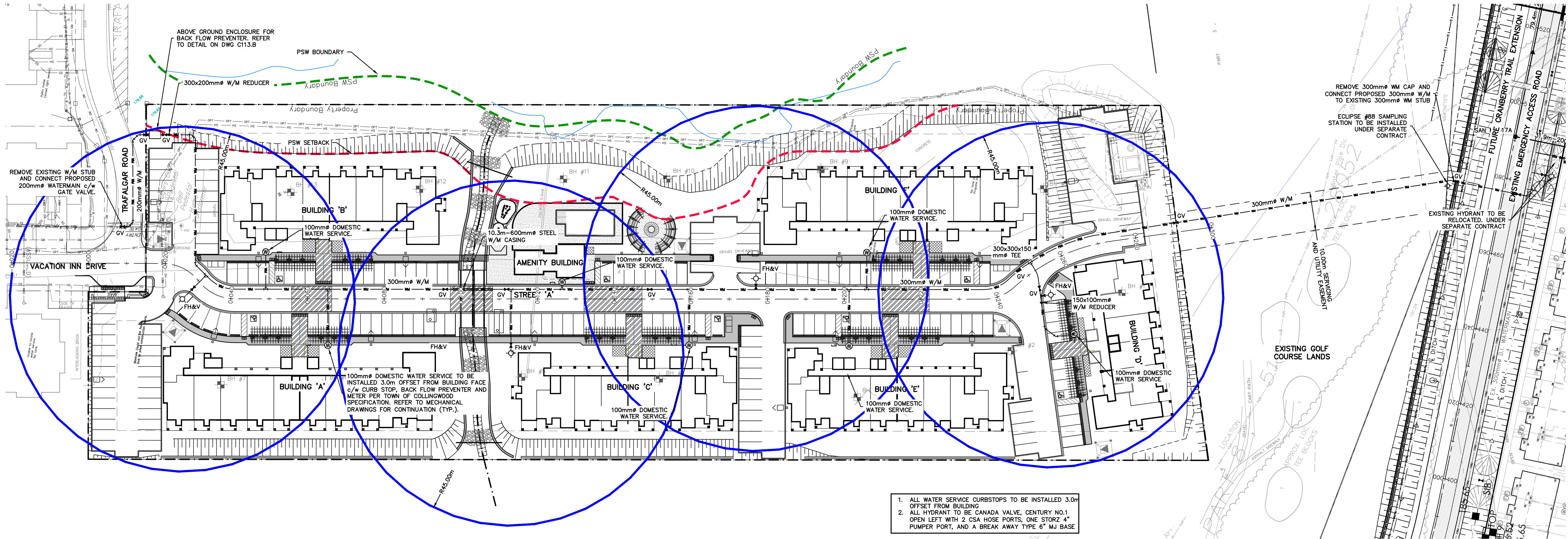
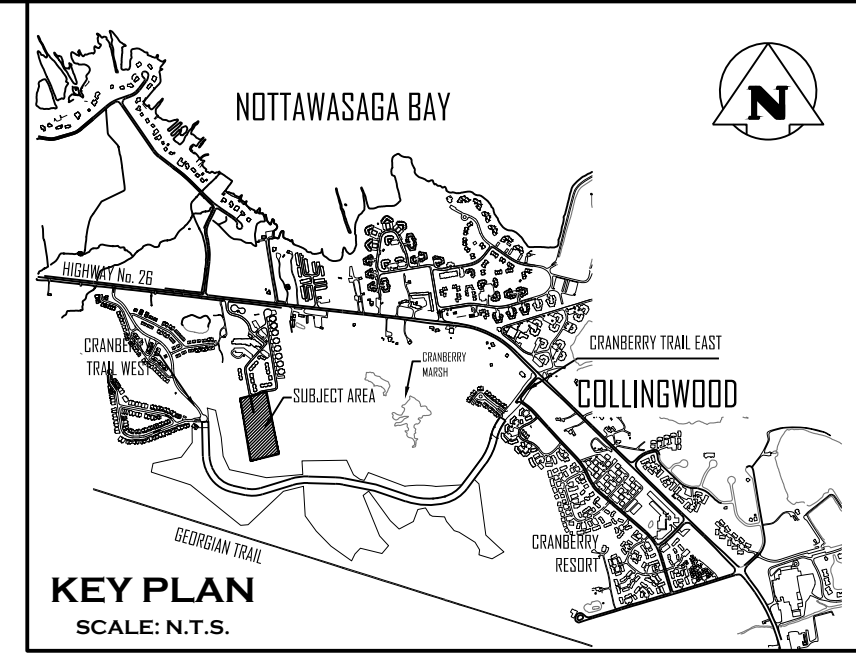
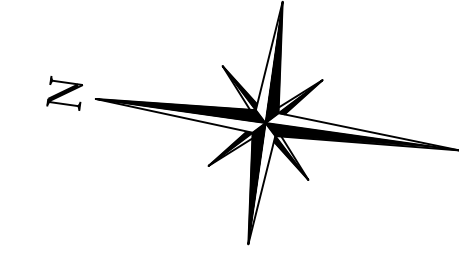
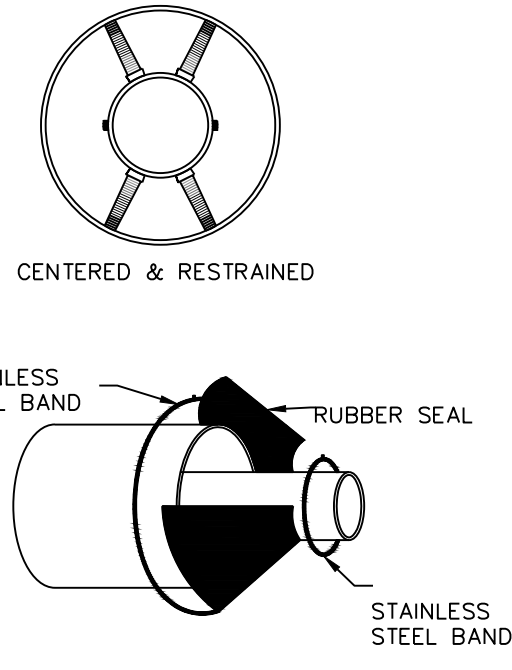
**STEEL LINER DETAIL**  
N.T.S.



- STAINLESS STEEL PIPE BRACING AS REQUIRED TO MAINTAIN PIPE CENTERED AND RESTRAINED. CASCADE CCS-1320-8
- UNSHRINKABLE FILL AS SHOWN PER OPSS 2220.030
- PRIMARY 600mmØ STEEL LINER 11mm THICKNESS.
- 300mmØ WATERMAIN
- 100mm RIGID INSULATION ON SIDES AND ON TOP
- MIN. 150mm BEDDING MATERIAL AS PER TOWN OF COLLINGWOOD STANDARDS

**CASING SPACERS**

- CASCADE: CCS - 1320-8 (OR APPROVED EQUAL)
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS OF MATERIAL AND INSTALLATION METHODOLOGY FOR REVIEW AND APPROVAL.
  - ALL CASING SPACERS ARE TO BE MADE OF T-304 STAINLESS STEEL.
  - BEARING SURFACES (RUNNERS) SHALL BE ULTRA HIGH MOLECULAR WEIGHT POLYMER OR EQUIVALENT.
  - POSITIONING OF SPACERS ALONG THE WATERMAIN IS TO BE AS PER MANUFACTURER'S SPECIFICATIONS.
  - POSITION OF WATERMAIN WITHIN LINER TO BE CENTERED AND RESTRAINED, SUFFICIENT ENOUGH TO PROVIDE NO LESS THAN 19mm (¾") CLEARANCE BETWEEN THE CASING PIPE AND THE OUTSIDE DIAMETER OF THE BELL.
  - WATERMAIN SHALL BE RESTRAINED Laterally FOR THE ENTIRE LENGTH OF THE LINER PLUS ONE FULL PIPE LENGTH BEYOND END OF CASING.
  - LINER TO BE SEALED USING WRAP AROUND RUBBER ENDS COMPLETE WITH STAINLESS STEEL (T-304) BANDING.



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Engineer

**K. A. MORRIS**  
LICENSED PROFESSIONAL ENGINEER  
PROVINCE OF ONTARIO

Engineer

**R. A. ALEXANDER**  
LICENSED PROFESSIONAL ENGINEER  
100213093  
December 20, 2024  
PROVINCE OF ONTARIO

Project

**WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD**

Drawing

**WATER DISTRIBUTION PLAN**

**CROZIER CONSULTING ENGINEERS**

Drawn By: L.W. Design By: L.W. Project: **1535-4897**

Check By: K.M. Check By: R.A. Scale: 1:500 Drawing: **C108**

**GENERAL NOTES:**

- ALL CONSTRUCTION EQUIPMENT TO USE MAIN CONSTRUCTION ACCESS POINT LOCATED AT THE SOUTH END OF VACATION INN DRIVE VIA THE CONSTRUCTION ACCESS ROAD. REFER TO DRAWING C111 'CONSTRUCTION ACCESS ROAD PLAN' FOR DETAILS.
- NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30 METRES OF AN EXISTING WATER COURSE OR DITCH.
- ALL SEDIMENT AND EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO ANY GRADING OPERATIONS COMMENCING. TYPICAL WORKS INCLUDE SILT FENCES, CONSTRUCTION MUD MAT AND CHECK DAMS.
- ALL TEMPORARY TOPSOIL STOCKPILES ARE TO BE PROVIDED WITH THE NECESSARY SEDIMENT AND EROSION CONTROL FEATURES. IF STOCKPILES ARE TO REMAIN FOR A PERIOD LONGER THAN 30 DAYS, STOCKPILES SHALL BE HYDROSEEDED AND SURROUNDED WITH SILT FENCE.
- THE SITE ENGINEER SHALL UNDERTAKE WEEKLY INSPECTIONS OF ALL SEDIMENT/EROSION CONTROL FACILITIES DURING THE EXTENT OF THE ENTIRE CONSTRUCTION PROJECT AS WELL AS AFTER ALL RAIN EVENTS 13mm OR GREATER. THE WEEKLY INSPECTIONS ARE TO BE COMPLETED ON AN EROSION AND SEDIMENT CONTROL INSPECTION REPORT.
- THE SITE ENGINEER SHALL PROVIDE WEEKLY STATUS REPORTS TO THE MUNICIPALITY AND CONSERVATION AUTHORITY ADVISING OF THE CONDITION OF STRUCTURES AND MAINTENANCE WORKS THAT HAVE BEEN UNDERTAKEN.
- DURING THE CONSTRUCTION PERIOD, WHEN INTERNAL BLOCKS HAVE INITIATED CONSTRUCTION, A STREET CLEANING SCHEDULE WILL BE UNDERTAKEN ON A MINIMUM WEEKLY BASIS, OR AS DIRECTED BY THE SITE ENGINEER OR MUNICIPALITY.
- ANY ADJUSTMENTS TO THE EROSION AND SEDIMENT CONTROLS MADE BY THE CONTRACTOR SHALL BE DOCUMENTED IN WRITING.

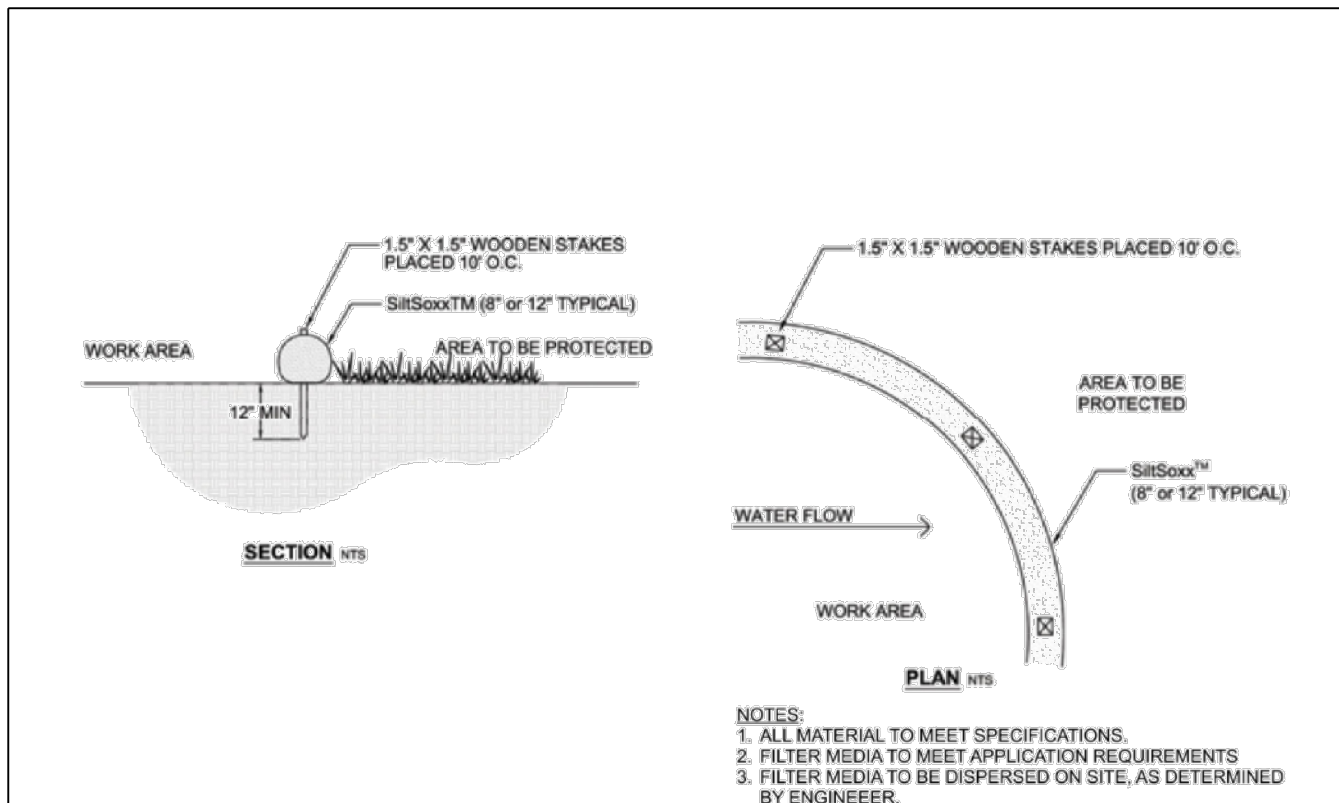
**CONSTRUCTION IMPLEMENTATION:**

- A) PRE-CONSTRUCTION
- SITE ENGINEER TO ADVISE TOWN OF STAFF RESPONSIBLE FOR SITE SEDIMENT CONTROL SUPERVISION, INSPECTION AND MAINTENANCE, INCLUDING AFTER HOUR CONTACTS.
  - SITE ENGINEER TO PROVIDE WRITTEN INSPECTION AND MAINTENANCE SCHEDULE OF SEDIMENT CONTROL DEVICES.
  - CONTRACTOR TO INSTALL ALL SEDIMENT CONTROL DEVICES AS IDENTIFIED ON THE APPROVED EROSION CONTROL PLAN PRIOR TO EARTHWORKS OPERATIONS.
- B) DURING CONSTRUCTION (SITE AND BUILDING WORKS)
- CONTRACTOR TO ENSURE TOPSOIL STRIPPING, GRADING AND UNDERGROUND WORKS CONFORM TO APPROVED GRADING, SERVICING AND EROSION CONTROL PLANS.
  - SITE ENGINEER TO CONDUCT REQUIRED WEEKLY INSPECTION, MAINTENANCE AND REPORTING OF SEDIMENT CONTROLS TO THE TOWN.
  - CONTRACTOR TO STABILIZE SITE AS REQUIRED THROUGHOUT SITE CONSTRUCTION SCHEDULE.
- C) POST CONSTRUCTION (INCLUDING BUILDING CONSTRUCTION)
- CONTRACTOR TO COMPLETE FINAL SITE STABILIZATION AND REVEGETATION WORKS. ALL SWALES EXPECTED TO REMAIN IN EXCESS OF 30 DAYS TO BE STABILIZED BY CONTRACTOR VIA HYDROSEEDING.
  - CONTRACTOR TO REMOVE ALL SEDIMENT CONTROL DEVICES AFTER THE SITE

IS STABILIZED TO A CONDITION EQUAL TO, OR BETTER THAN, PRE-CONSTRUCTION CONDITIONS AND WITH ACKNOWLEDGMENT OF THE SITE ENGINEER.

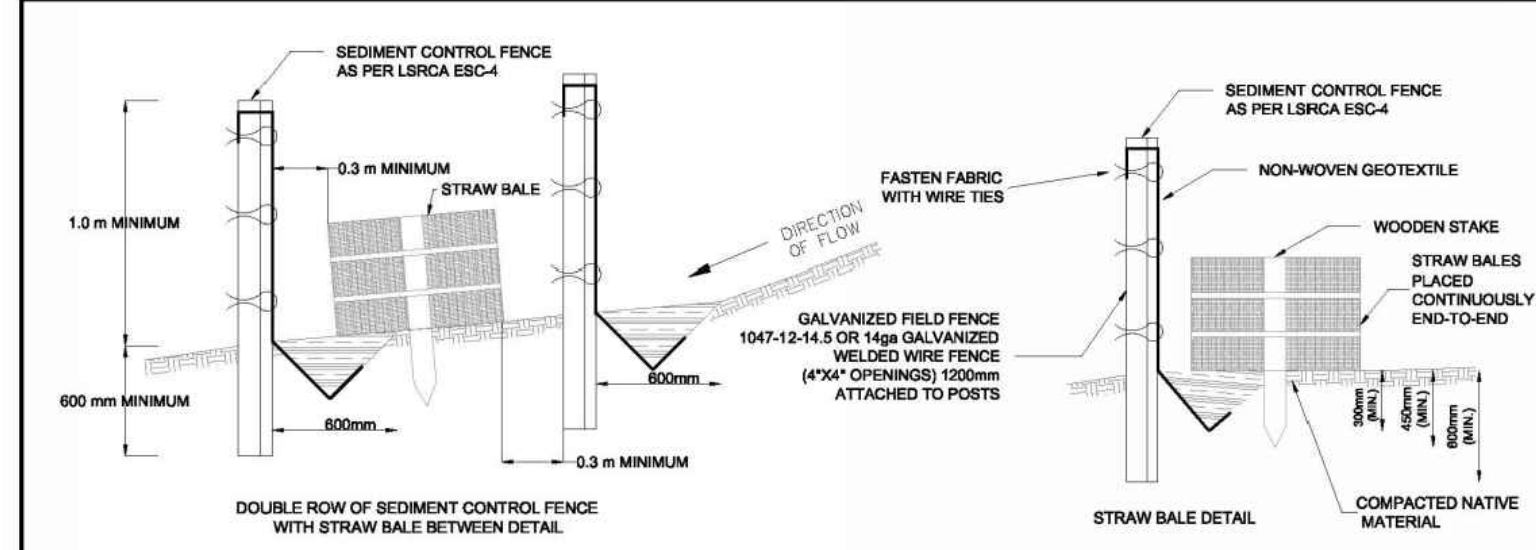
**MAINTENANCE & OPERATIONS OF SEDIMENT CONTROLS**

- A) SILT FENCE
- SILT FENCE TO BE LOCATED ON CRANBERRY TRAIL PROPERTY LINE.
  - SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT.
  - SILT FENCE MUST BE INSPECTED FOLLOWING ALL 13mm OR GREATER RAIN STORM EVENT OR AS DIRECTED BY SITE ENGINEER.
  - SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
  - ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.
- B) ROCK & STRAW BALE FLOW CHECK DAM
- REMOVE ACCUMULATED SEDIMENT UP STREAM OF THE CHECK DAM IF GREATER THAN 50% OF DAM HEIGHT.
  - SILT REMOVAL MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWN STREAM SEDIMENTATION IN SWALE OR DITCH.
  - CHECK DAMS AND ALL ACCUMULATED SEDIMENT MUST BE REMOVED WITH CARE ONCE THE CONSTRUCTION SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.
- C) SEDIMENT TRAP
- REMOVE ACCUMULATED SEDIMENT FROM THE SEDIMENT TRAP IF THE DEPTH IS GREATER THAN 50% OF THE TRAP DEPTH.
  - SILT REMOVAL MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWN STREAM SEDIMENTATION IN SWALE OR DITCH.
  - CHECK TRAPS AND ALL ACCUMULATED SEDIMENT MUST BE REMOVED WITH CARE ONCE THE CONSTRUCTION SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.



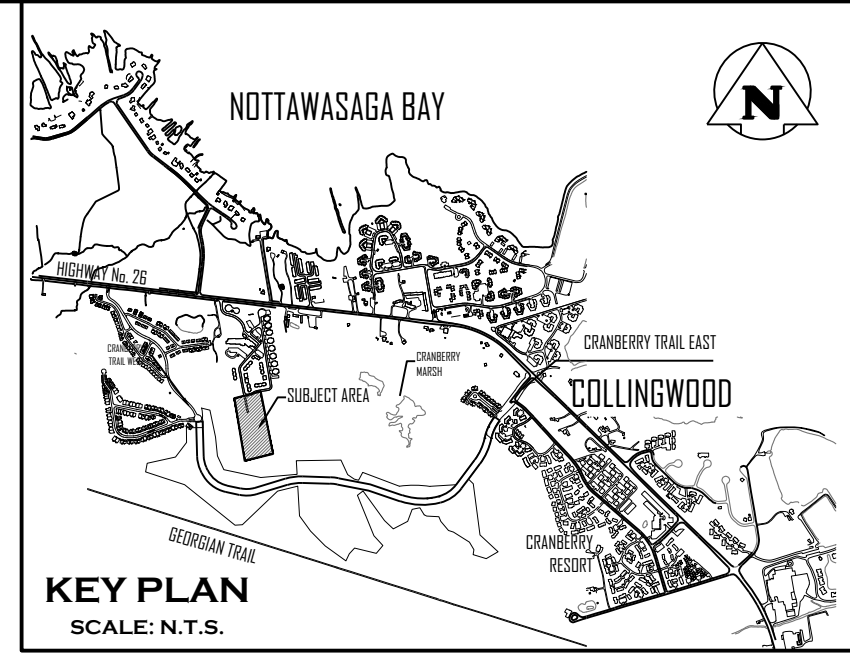
**SiltSoxx™ for Sediment Control**

NTS  
325 | Filtrex Low Impact Design Manual | Version 8.0



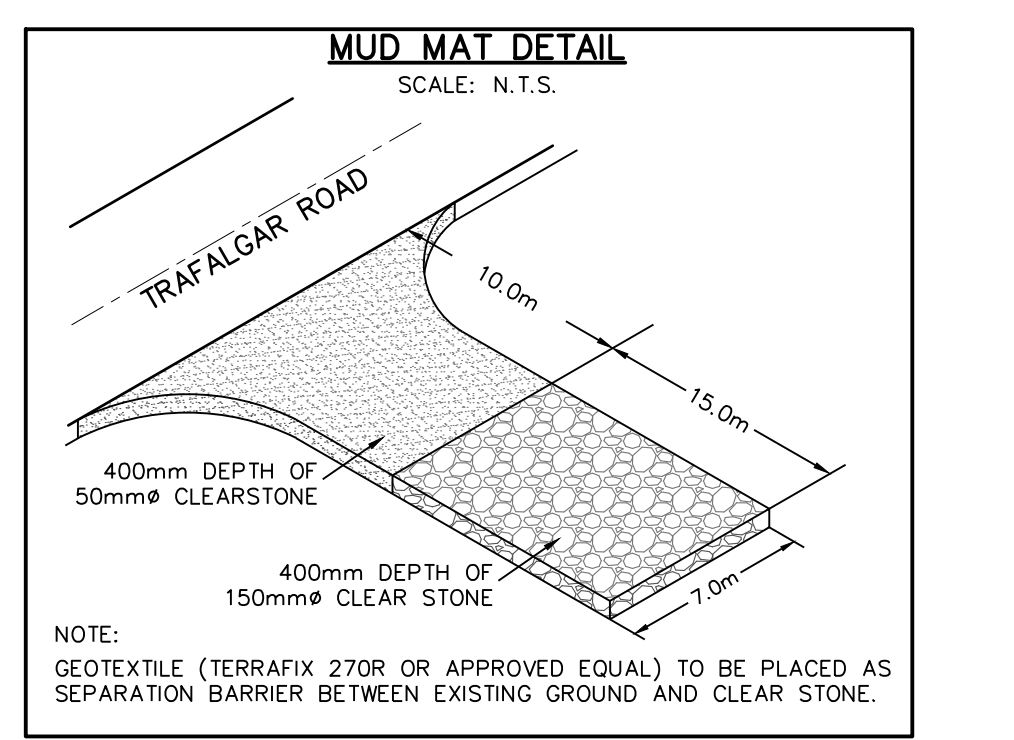
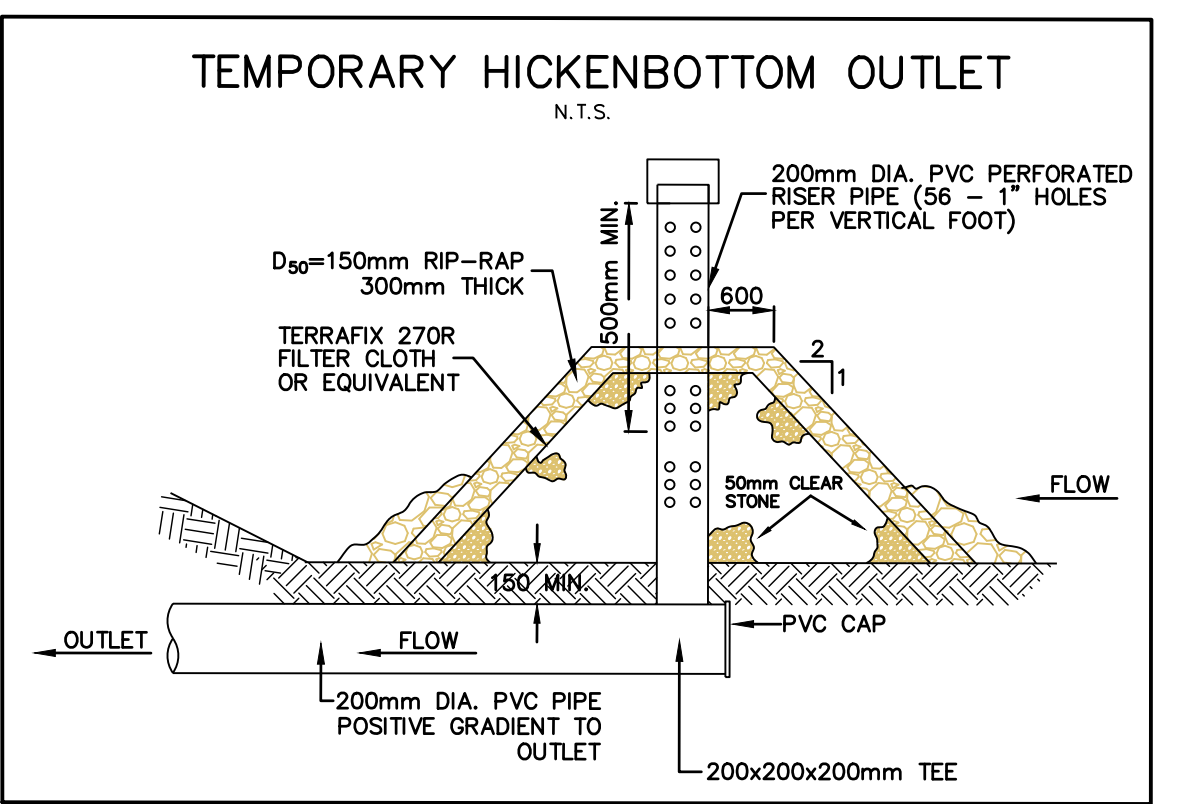
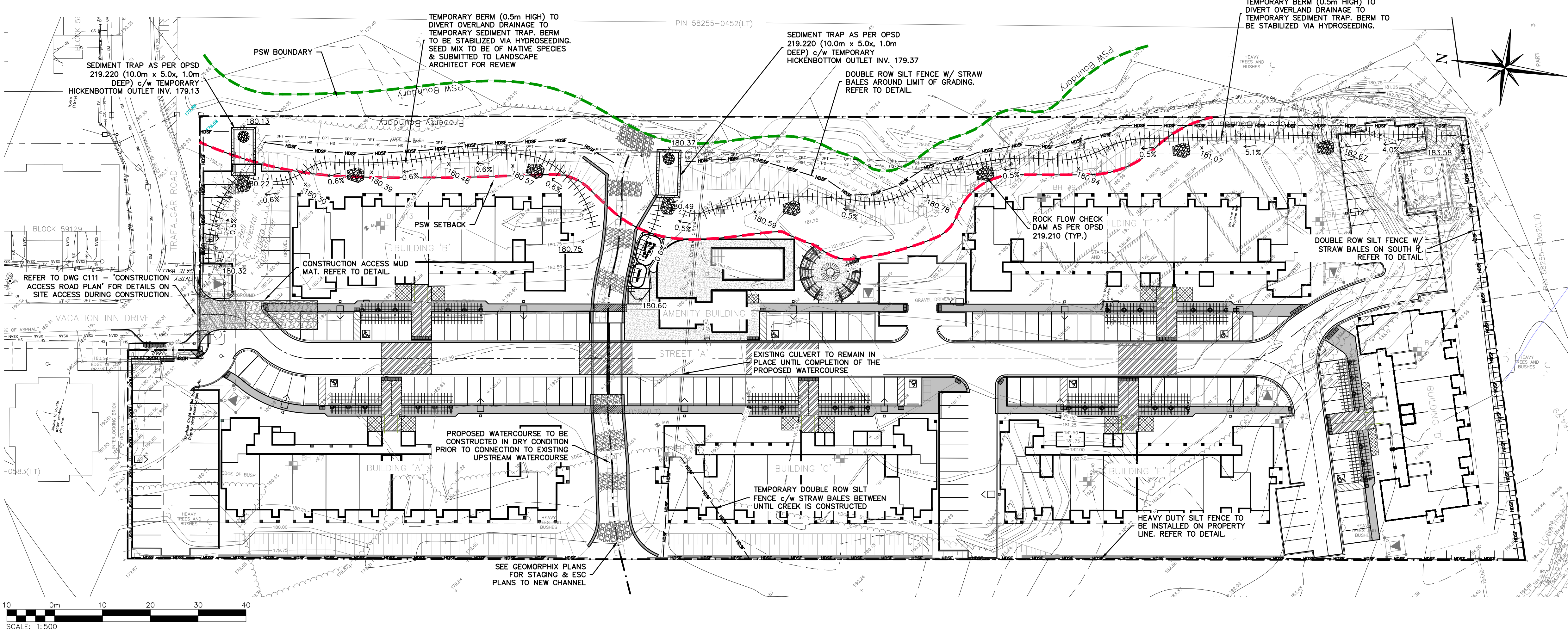
- NOTES:**
- SEDIMENT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
  - SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 CHART F4-3C TOPOGRAPHIC FACTOR L5 BASED ON SLOPE LENGTH AND GRADIENT.
  - SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TIED INTO THE SOIL A MINIMUM OF 300 mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
  - STEEL T BAR POSTS ARE TO BE SPACED A MAXIMUM DISTANCE OF 2000 mm ON CENTER.
  - STRAW BALES TO BE PLACED END-TO-END CONTINUOUSLY BETWEEN SEDIMENT CONTROL FENCES.
  - FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
  - GEOTEXTILE FABRIC TO BE COMPRISED OF NON-WOVEN U.V. STABILIZED MATERIAL FABRIC TO BE FOLDED OVER TOP OF FENCE A MINIMUM OF 300 mm AND WIRE FASTENED.
  - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
  - ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN.

1 SWM GUIDELINES UPDATE 06.2016			DATE: 06.2016	
DOUBLE ROW SEDIMENT CONTROL FENCE			SCALE: NTS	
LSRCA ESC-5				
NO.	REVISION	DATE		



NOTE: GRADING AND RIP-RAP EROSION PROTECTION AT CHANNEL OUTLET TO BE FIELD FIT TO ENSURE POSITIVE DRAINAGE TO CRANBERRY MARSH

NOTE: REFER TO DRAWINGS GEO-1, DET-1 AND DET-2 BY GEOMORPHIX FOR CHANNEL DESIGN AND RESTORATION DETAILS.



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7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024

Engineer: **K. A. MORRIS** (PROVINCE OF ONTARIO)

Engineer: **R. A. ALEXANDER** (PROVINCE OF ONTARIO)

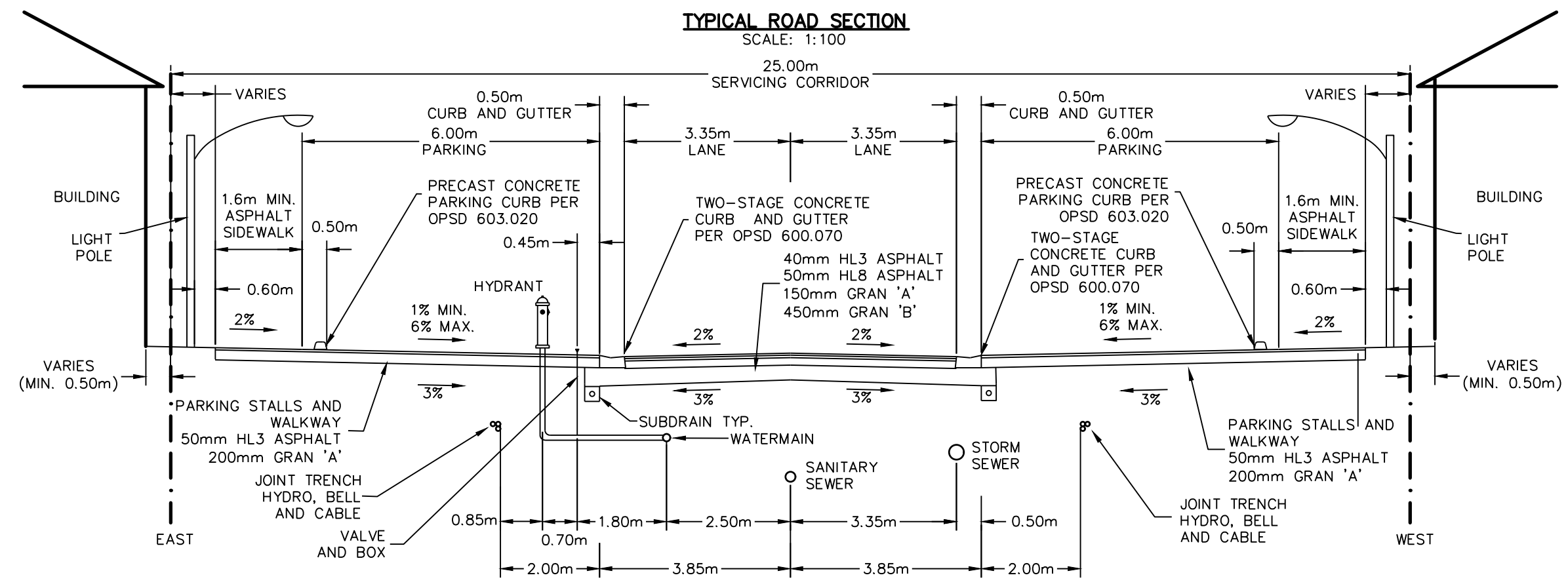
Project: **WYLDEWOOD CREEK TOWN OF COLLINGWOOD**

Drawing: **EROSION AND SEDIMENT CONTROL PLAN**

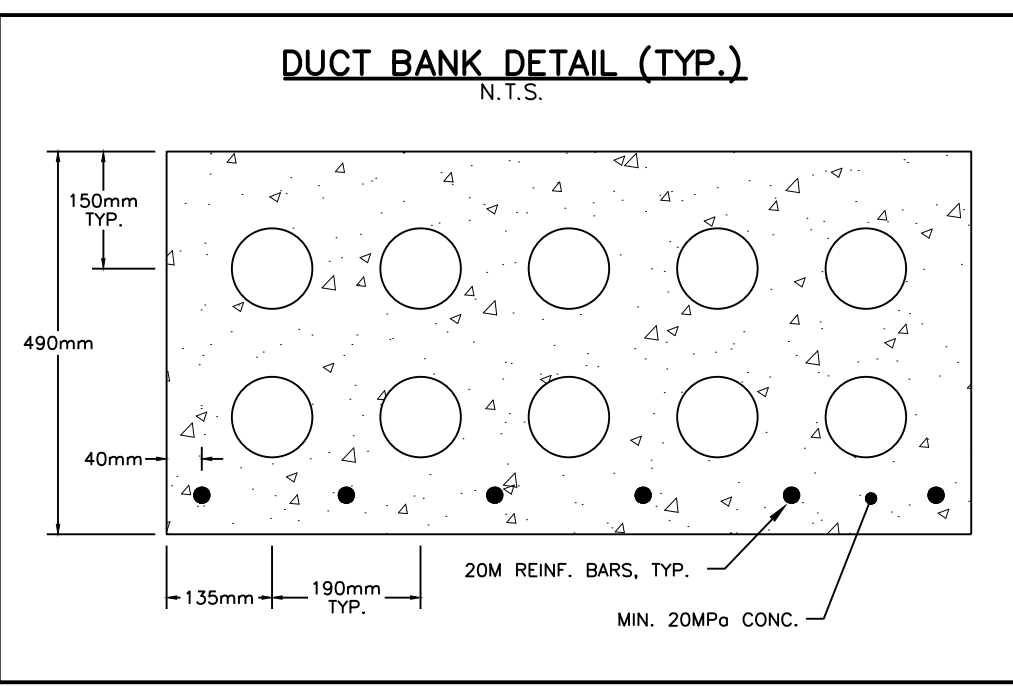
**CROZIER CONSULTING ENGINEERS**

Drawn By: L.W. Design By: L.W. Project: **1535-4897**

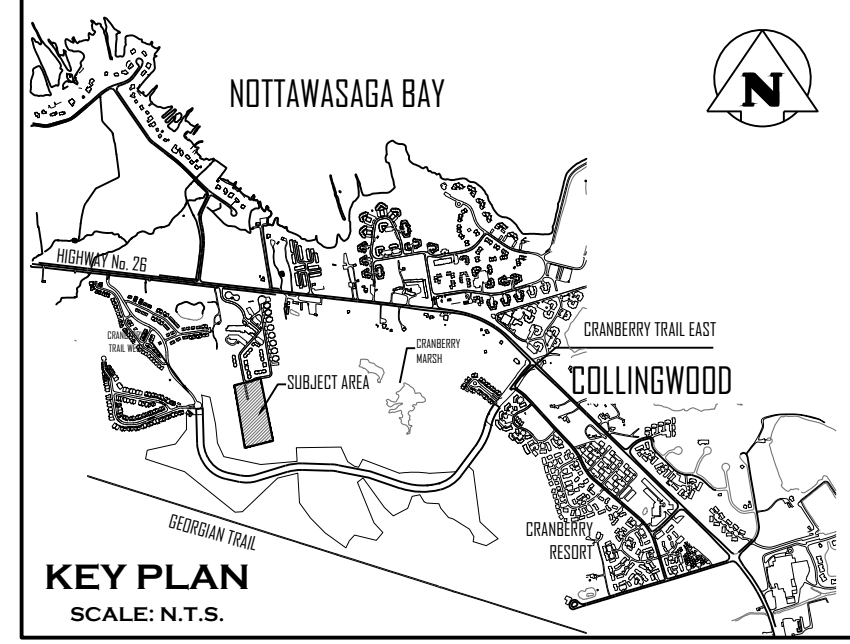
Check By: K.M. Check By: R.A. Scale: 1:500 Drawing: **C109**



- NOTES:**
- COVER ON STORM, SANITARY AND WATERMAIN AS PER DESIGN CRITERIA, UTILITY CORRIDOR SHALL HAVE MINIMUM COVER OF 1.0m.
  - MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWN DESIGN CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
  - SUBDRAINS TO BE INSTALLED AS PER OPSD 216.021.
  - ALL SERVICE LOCATIONS SHOWN ARE FOR GUIDELINE PURPOSES ONLY AND MAY DEViate AS PER THE DIRECTION OF THE TOWN WHEN STANDARD LOCATION CANNOT BE ACHIEVED.
  - GASMAIN TO BE INSTALLED IN THE REAR OF THE BUILDINGS.
  - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.

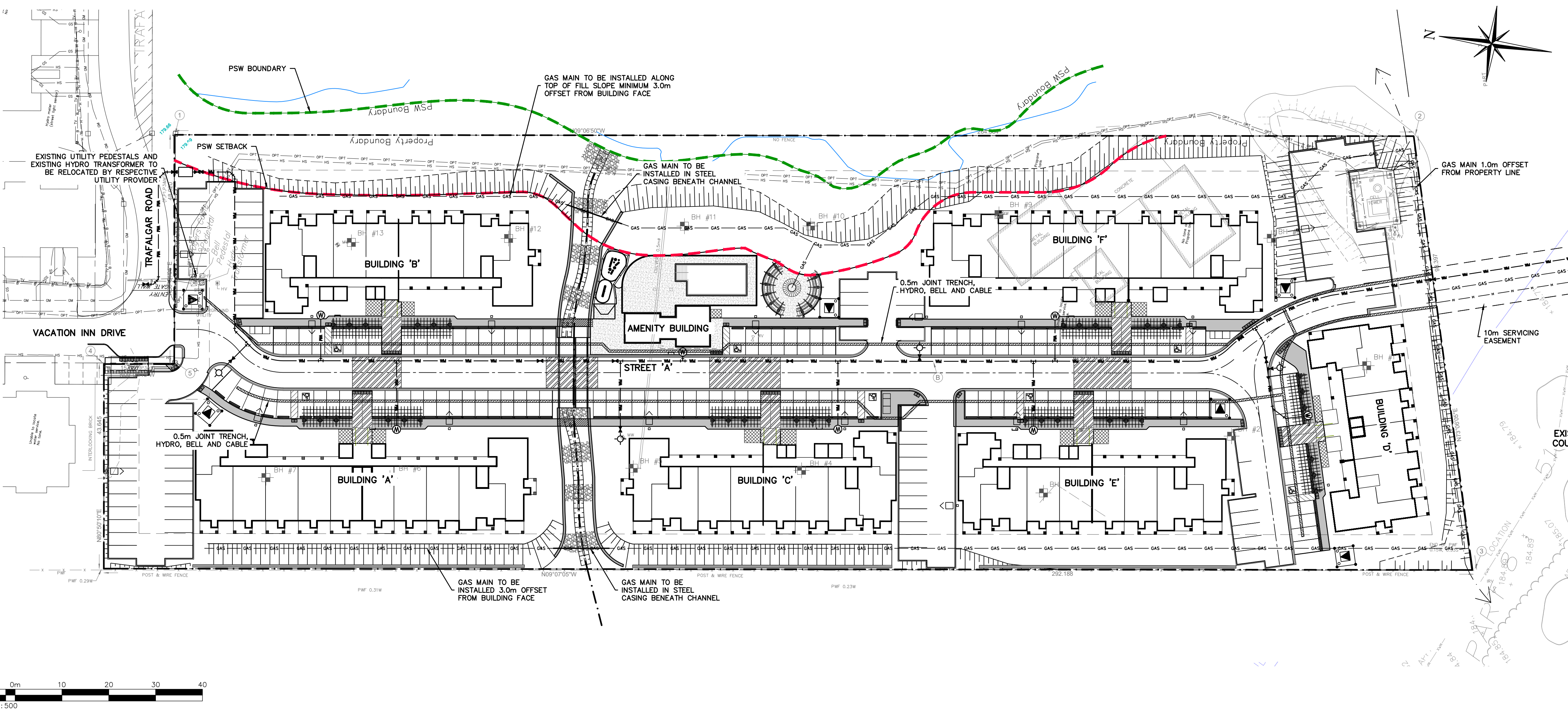
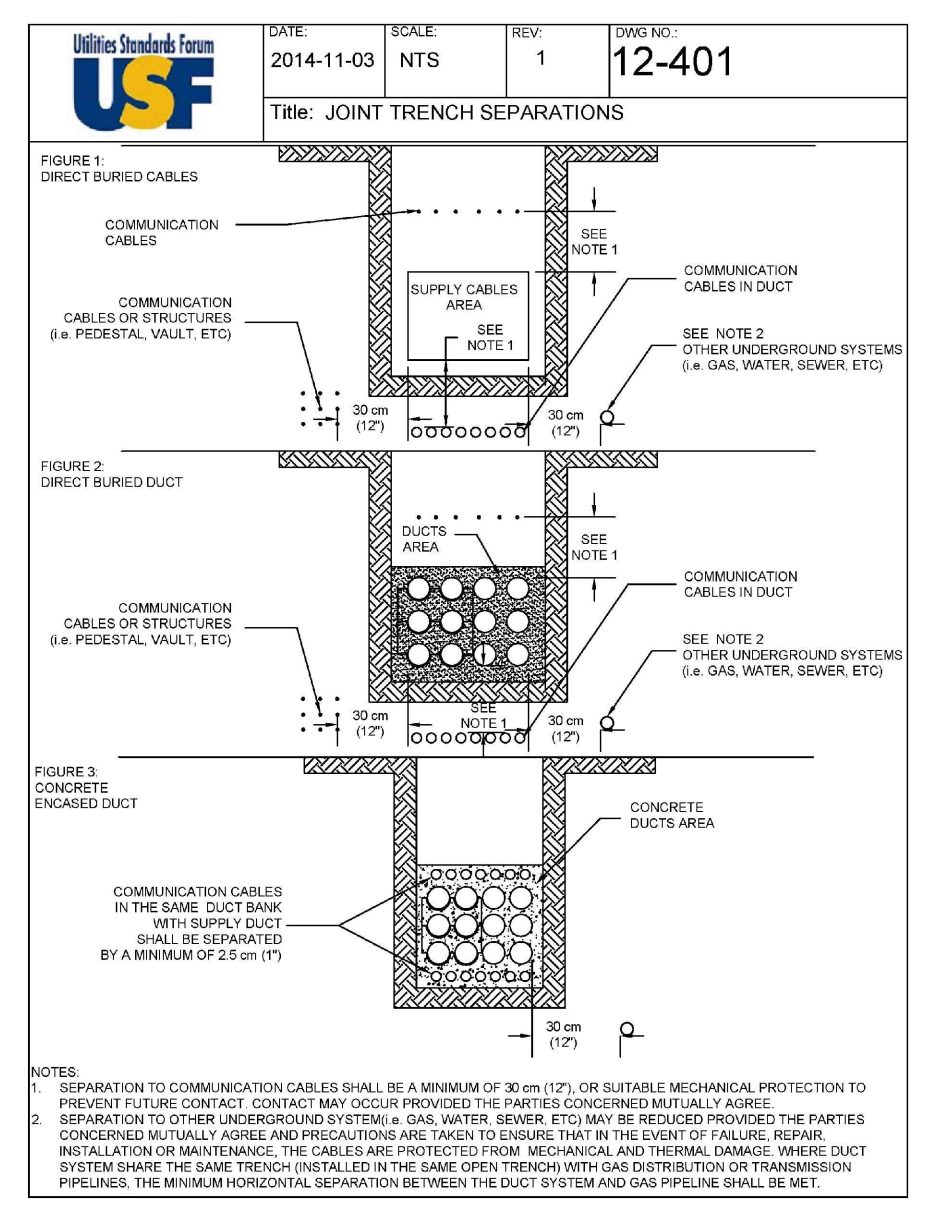


- GENERAL CONSTRUCTION SCHEDULE**
- IN STREAM WORKS TO COMPLY WITH NVCA TIMING GUIDELINES AND ASSOCIATED PERMITTING.
  - MAINTAIN TEMPORARY WATER MANAGEMENT WORKS AND OVERLAND SPILL ROUTE PRIOR TO ANY EXCAVATION.
  - COMPLETE ASSOCIATED SEDIMENT CONTROLS, CULVERT AND UNDERGROUND SERVICES ENSURING WORKING IN THE DRY AT ALL TIMES.
- GENERAL NOTES**
- ALL WORK TO BE PERFORMED IN DRY DEWATERED CONDITIONS USING APPROVED WATER MANAGEMENT PLAN.
  - NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30 METRES OF WATERCOURSE.
  - ALL SEDIMENT & EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO EXCAVATION WORKS COMMENCING.
  - ALL TEMPORARY SOIL OR DIRT TO BE STOCKPILED PER DESIGNATED AREAS.
  - FLOW INFORMATION PROVIDED HEREIN CONCERNING CRANBERRY MARSH OUTLET FOR CONTRACTOR USE ONLY.
  - THE SEDIMENT & EROSION CONTROLS SPECIFIED HEREIN DO NOT NECESSARILY CONSTITUTE ALL MEASURES REQUIRED GIVEN FIELD CONDITIONS. CONTRACTOR TO PROVIDE ANY SUPPLEMENTARY SEDIMENT & EROSION CONTROL MEASURES AS REQUIRED TO ENSURE NO RELEASE OF DELETERIOUS SUBSTANCES TO WATERCOURSE.



**COMPOSITE UTILITY PLAN FOR INFORMATION PURPOSES ONLY**

THIS PLAN HAS BEEN PREPARED BY C.F. CROZIER & ASSOCIATES INC. TO CONSOLIDATE THE DESIGNS COMPLETED BY THE RESPECTIVE UTILITIES. OUR FIRM HAS REVIEWED EACH UTILITY DESIGN TO CONFIRM IT COMPLIES WITH THE APPLICABLE MUNICIPAL GUIDELINES AND ROAD STANDARDS AND TO CONFIRM THERE ARE NO CONFLICTS WITH THE PROPOSED CIVIL SERVICING AND DRAINAGE SYSTEMS. WE HAVE NOT CHECKED NOR ACCEPT RESPONSIBILITY FOR THE ACCURACY AND VERACITY OF EACH UTILITY DESIGN. ANY USE WHICH A THIRD PARTY MAKES OF THIS PLAN, OR ANY RELIANCE ON OR DECISIONS BASED ON IT, ARE THE RESPONSIBILITIES OF SUCH THIRD PARTIES. IT IS RECOMMENDED THAT DURING CONSTRUCTION THE THIRD PARTY REFERENCE OR MAKE USE OF THE APPROVED FOR CONSTRUCTION PLANS PREPARED BY EACH RESPECTIVE UTILITY.



- NOTE:**
- FOR ELECTRICAL DESIGN OF PRIMARY AND SECONDARY POWER SYSTEM SEE C.F.A.
  - FOR STREET LIGHT LIGHTING DESIGN SEE C.F. CROZIER AND ASSOCIATES (DWG. E300-E301)
  - FOR TELECOMMUNICATION (CABLE, TELEPHONE) SEE ROGERS AND BELL RESPECTIVELY.
  - FOR NATURAL GAS SERVICING SEE ENBRIDGE.

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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.

**BENCHMARKS**

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE RELATED TO TOWN OF COLLINGWOOD BENCH MARK NO. 001720311 HAVING AN ELEVATION OF 181.032 METRES.

TOPOGRAPHIC SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., DATED AUGUST 25, 2018.

No.	ISSUE	DATE: MM/DD/YYYY
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7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024

Engineer  
K. A. MORRIS  
PROVINCE OF ONTARIO

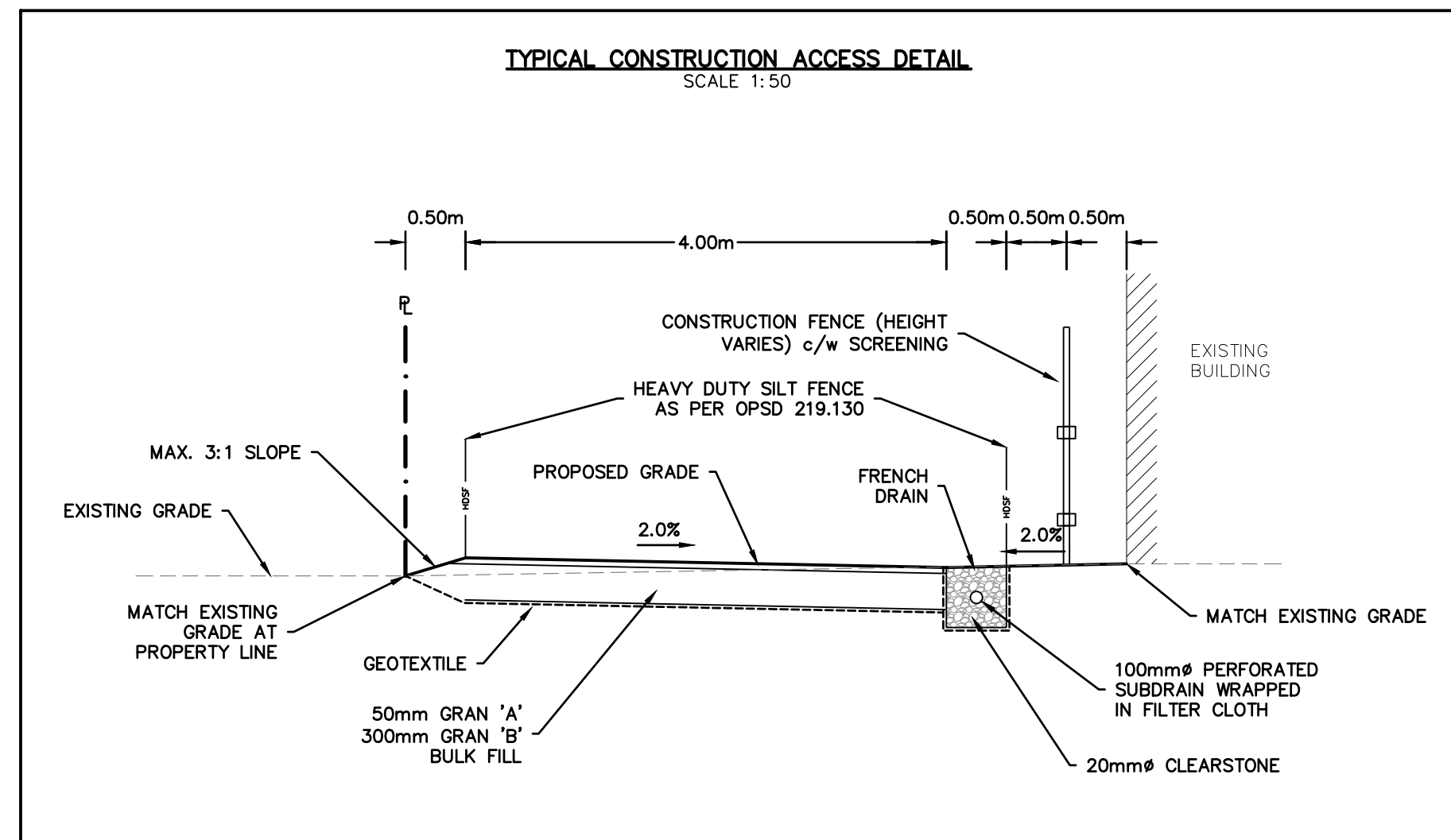
Engineer  
R. A. ALEXANDER  
100213093  
PROVINCE OF ONTARIO

Project  
WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD

Drawing  
COMPOSITE UTILITY PLAN

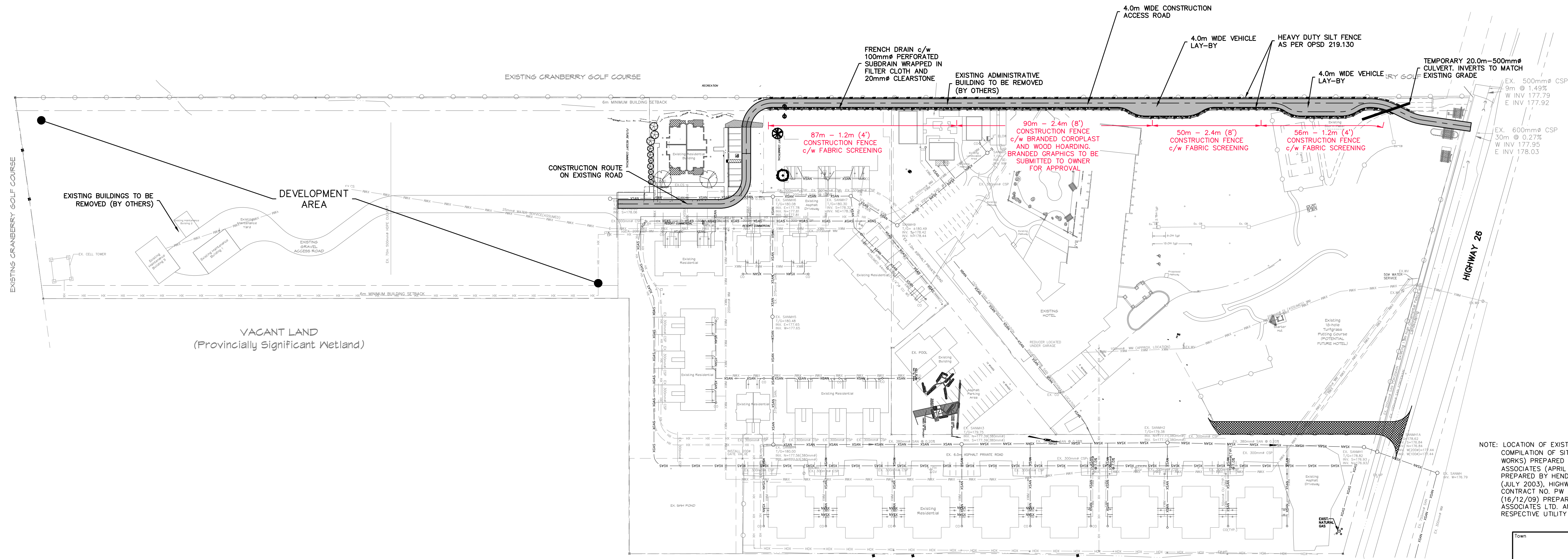
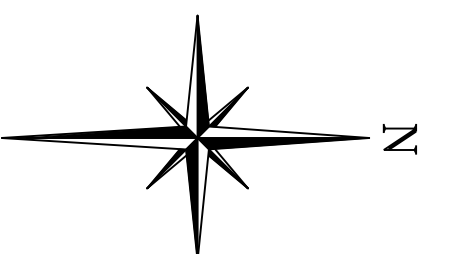
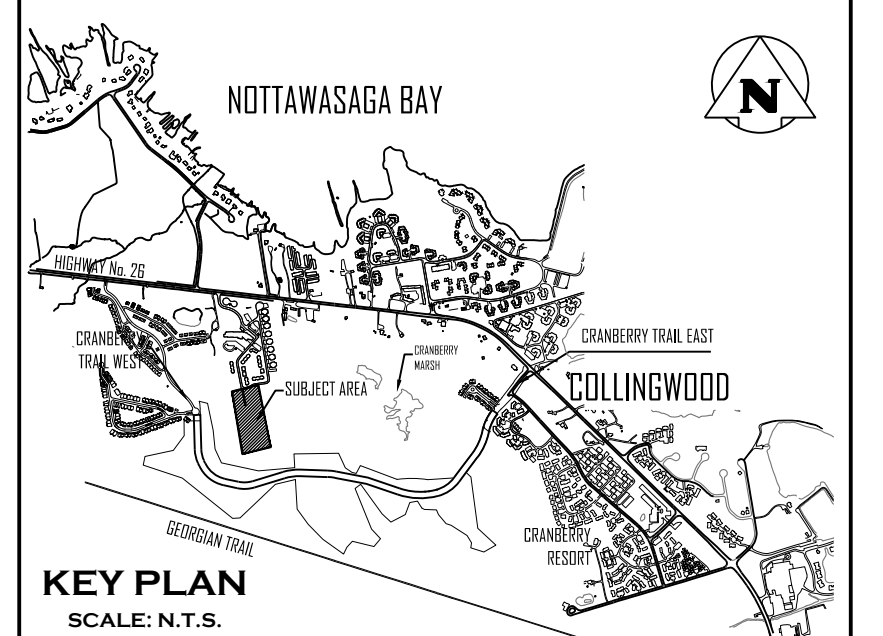
**CROZIER CONSULTING ENGINEERS**

Drawn By: L.W. Design By: L.W. Project: 1535-4897  
Check By: K.M. Check By: R.A. Scale: 1:500 Drawing: C110



**LEGEND**

	EX. FENCE		PR. HEAVY DUTY SILT FENCE AS PER OPSD 219.130
	EX. WATERMAIN		PR. CONSTRUCTION FENCE
	EX. FIRE HYDRANT & VALVE		PR. 100mm PERFORATED SUBDRAIN
	EX. SANITARY SEWER & MANHOLE		PR. CULVERT
	EX. OVERHEAD HYDRO		PR. CONSTRUCTION ROUTE
	EX. HYDRO		
	EX. GAS MAIN		
	EX. HYDRO POLE		
	EX. SWALE		



NOTE: LOCATION OF EXISTING SERVICES BASED ON COMPILATION OF SITE SERVICING DRAWINGS (EXISTING WORKS) PREPARED BY HENDERSON, PADDON & ASSOCIATES (APRIL 2004), SERVICING REPORT PREPARED BY HENDERSON, PADDON & ASSOCIATES (JULY 2003), HIGHWAY 26 WEST RECONSTRUCTION CONTRACT NO. PW 2015-11 AS-BUILT DRAWINGS (16/12/09) PREPARED BY R.J. BURNSIDE & ASSOCIATES LTD. AND MARK UPS PROVIDED BY THE RESPECTIVE UTILITY PROVIDERS.



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**BENCHMARKS**

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE RELATED TO TOWN OF COLLINGWOOD BENCH MARK NO. 00172U311 HAVING AN ELEVATION OF 181.032 METRES.

TOPOGRAPHIC SURVEY COMPLETED BY KROMAR SURVEYORS LTD., DATED AUGUST 25, 2018.

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7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024

Engineer

Engineer

Project

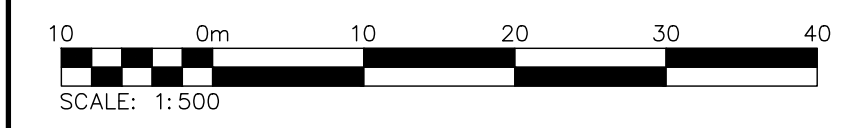
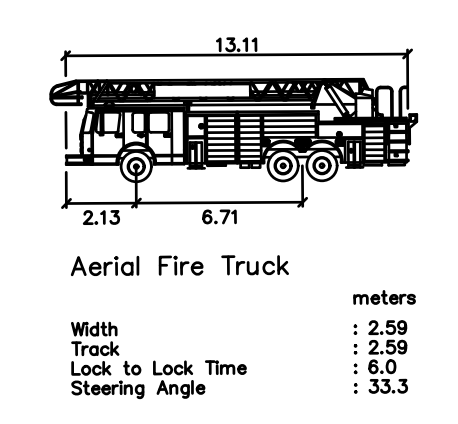
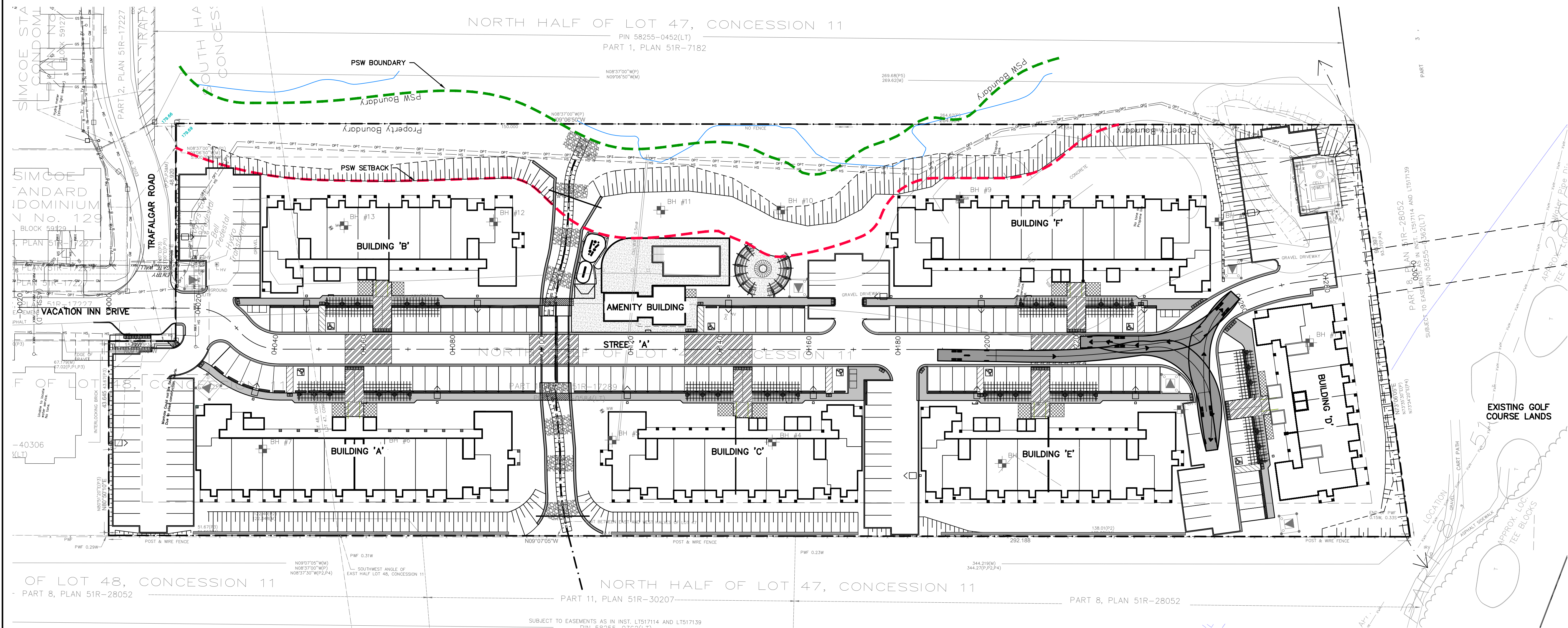
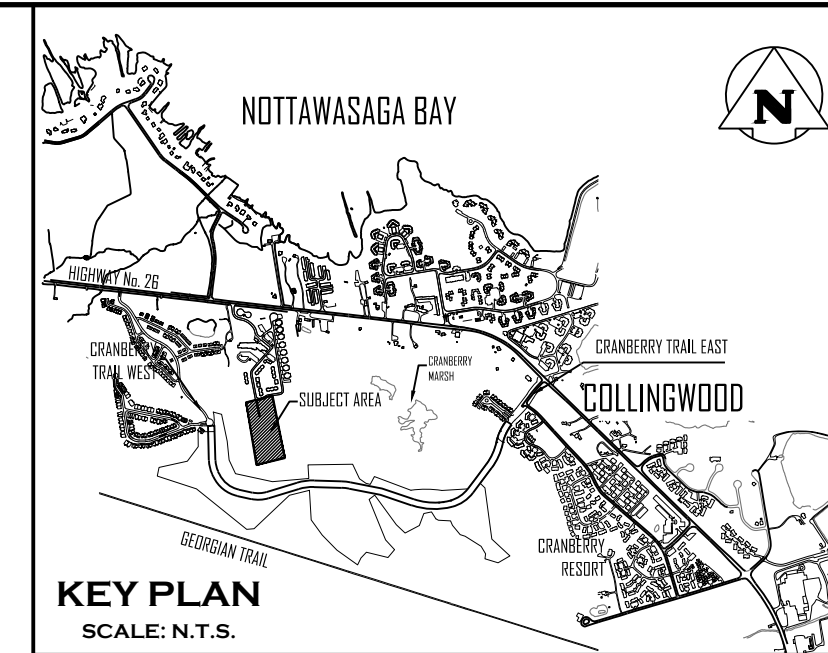
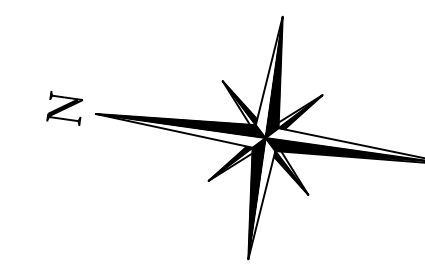
**WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD**

Drawing

**CONSTRUCTION ACCESS ROAD PLAN**

Drawn By: L.W. Design By: L.W. Project: **1535-4897**

Check By: K.M. Check By: R.A. Scale: 1:1000 Drawing: **C111**



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**BENCHMARKS**

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE RELATED TO TOWN OF COLLINGWOOD BENCH MARK NO. 00172U311 HAVING AN ELEVATION OF 181.032 METRES.

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Engineer

Engineer

Project

WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD

Drawing

VEHICLE MOVEMENT PLAN

Drawn By: L.W. Design By: L.W. Project: 1535-4897

Check By: K.M. Check By: R.A. Scale: 1:500 Drawing: C112

**CONSTRUCTION NOTES:**

**A) GENERAL - CONSTRUCTION**

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWN OF COLLINGWOOD STANDARDS (2009), OPSD AND OPSS, WHERE CONFLICT OCCURS, TOWN OF COLLINGWOOD STANDARDS (2009) TO GOVERN.
- TRENCH BACKFILL (OPSD 802.010 & 802.013) TO BE SELECT NATIVE MATERIAL OR IMPORTED SELECT SUBGRADE TO OPSS 1010. BACKFILL TO BE PLACED IN MAXIMUM 200mm THICK LIFTS AND COMPACTED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- PIPE COVER AND BEDDING TO BE GRANULAR 'A' (MINIMUM 150mm DEPTH COMPACTED TO A MINIMUM 95%SPMDD).
- ALL TOPSOIL AND EARTH EXCAVATION TO BE STOCK PILED OR REMOVED TO AN APPROVED SITE AS DETERMINED BY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK. THE DEVELOPER'S ENGINEER WILL CONFIRM ALL BENCH MARK ELEVATIONS AND HORIZONTAL ALIGNMENT FOR THE CONTRACTOR.
- ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
- DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS-517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR RESPONSIBLE FOR OBTAINING M.E.C.P. PERMIT IF REQUIRED.
- ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SIZED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- DISTURBED AREAS OUTSIDE THE DEVELOPABLE LANDS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
- THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND CO-ORDINATE CONSTRUCTION ACCORDINGLY.
- ALL ROCK EXCAVATION PER OPSS-206.
- ALL EXCAVATION MUST BE CARRIED OUT IN FULL COMPLIANCE WITH MOST RECENT GUIDELINES OF OHSA. NATIVE SOILS ARE CLASSIFIED AS TYPE 3 SOIL.
- IMPORTED FILL MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER TO BE COMPACTED TO THE REQUIRED DENSITY FOR FILL PADS FOR BUILDINGS TO 0.5m ABOVE UNDERSTANDING OF FOOTING ELEVATION. REFER TO GEOTECHNICAL REPORT.

**B) ROADS**

- SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% SPMDD. SUBGRADE TO BE PROPERLY ROLLED AND CERTIFIED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING GRANULAR 'B'.
- GRANULAR 'A' AND 'B' ROAD BASE TO BE COMPACTED TO 100% OF THE MATERIAL'S RESPECTIVE SPMDD AND PLACED IN MAX. 150mm LIFTS. REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAILS.
- CONDO ROADWAY TO BE CONSTRUCTED WITH MINIMUM 450mm GRANULAR 'B' TYPE 1, 150mm GRANULAR 'A', 50mm HLB BASE COURSE ASPHALT, & 40mm HLB SURFACE COURSE ASPHALT. SELECT SUBGRADE MATERIAL GRANULAR 'A' OR GRANULAR 'B' MATERIAL APPROVED BY THE ENGINEER, COMPACTED TO 98% SPMDD TO BE USED AS FILL IN ALL AREAS WHERE PROPOSED PIPE INVERTS ARE HIGHER THAN EXISTING GRADE OR AS INSTRUCTED BY THE ENGINEER.
- ALL GRANULARS AND ASPHALT MATERIALS AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 314 AND OPSS 310.
- JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT WITH MIN. 1.0m LAP JOINT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT.
- STOP SIGNS AND STREET SIGNS TO TOWN STANDARDS (DETAIL DWG NO. 401)
- REINSTATEMENT OF ALL DISTURBED BOULEVARDS TO INCLUDE REGRADING, 150mm TOPSOIL AND SOD TO OPSS 802 AND 803.
- 100mm Ø PIPE SUBDRAINS SHALL BE PROVIDED UNDER EDGE OF PAVEMENT ON LOWER SIDE OF THE ELEVATED ROAD.
- ALL SUBDRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 405. SUBDRAIN TO BE INSTALLED IN GRANULAR 'A' TRENCH AND CONNECTED TO EACH CB OR CBMH.
- SUBDRAINS TO BE REPERFORATED OTHER THAN THE 2.0m SECTION IMMEDIATELY UPSTREAM OF ALL STRUCTURES WHICH SHALL BE NON-PERFORATED.
- ASPHALT WALKWAY TO BE CONSTRUCTED WITH MINIMUM 200mm GRANULAR 'A' AND 50mm HLB ASPHALT IN ACCORDANCE WITH OPSS 311.
- CONCRETE SIDEWALK TO BE CONSTRUCTED PER OPSD 310.010 WITH MINIMUM 200mm GRANULAR 'A' BASE.
- TACTILE WALKING SURFACE INDICATORS AT WALKWAY CROSSINGS AND ACCESSIBLE PARKING STALL AISLES AS PER OPSD 310.039 AND OPSD 310.033.
- PARKING STALLS TO BE COMPLETE WITH PRECAST CURB WHEEL STOPS.

**C) SANITARY SEWERS**

- M.H.'S TO OPSS - 701.010, 701.030, & 704.014.
- BENCHING TO OPSS - 701.021.
- STEPS TO OPSS - 405.010.
- BACKFILL AND EMBEDMENT TO OPSS - 802.010 CLASS 'B', GRANULAR 'A' BEDDING.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL, AS APPROVED BY GEOTECHNICAL ENGINEER, OR IMPORTED GRANULAR MATERIAL. FRAMES AND COVERS TO OPSS - 401.01 TYPE 'A' (CLOSED COVER). SERVICE CONNECTIONS TO OPSS - 1006.020 (125mm), GRANULAR 'A' BEDDING, TERMINATE AT SERVING CORRIDOR LIMITS, 125 x 100 REDUCER, PLUG AND 2X4 MARKER POST PAINTED GREEN. MINIMUM GRADE TO BE 2.0%, MAXIMUM 8.0%.
- RADIUS BENDS TO BE USED ON SANITARY SEWER CONNECTIONS WHERE THE ANGLE OF CONNECTION BETWEEN THE SERVICE AND SEWER EXCEEDS 90°.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- MAINTENANCE HOLES FRAMES TO BE SET TO BASE COURSE ASPHALT ELEVATION AND RAISED BY ADDING RISER RINGS PRIOR TO PLACING SURFACE COURSE ASPHALT.
- PIPE SUPPORT AT MAINTENANCE HOLES AS PER OPSD 708.020.
- ALL MAINTENANCE HOLES, UNLESS EXPRESSLY IDENTIFIED ARE 1200mm.
- 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 THESE SECTIONS.
- SANITARY SEWER - SDR 35 PVC.
- SANITARY SEWER - SDR 28 PVC - 125mm FOR RESIDENTIAL UNITS AND 150mm FOR MIDRISE BUILDINGS AS PER OPSD 1006.020 SERVICE CONNECTION FOR FLEXIBLE PIPE.
- FROST STRAPS PER OPSD 701.100.
- CLAY SEEPAGE PLUGS (0.5m THICK) TO BE PLACED ALONG PIPE BETWEEN MAINTENANCE HOLES.

**D) WATERMANS**

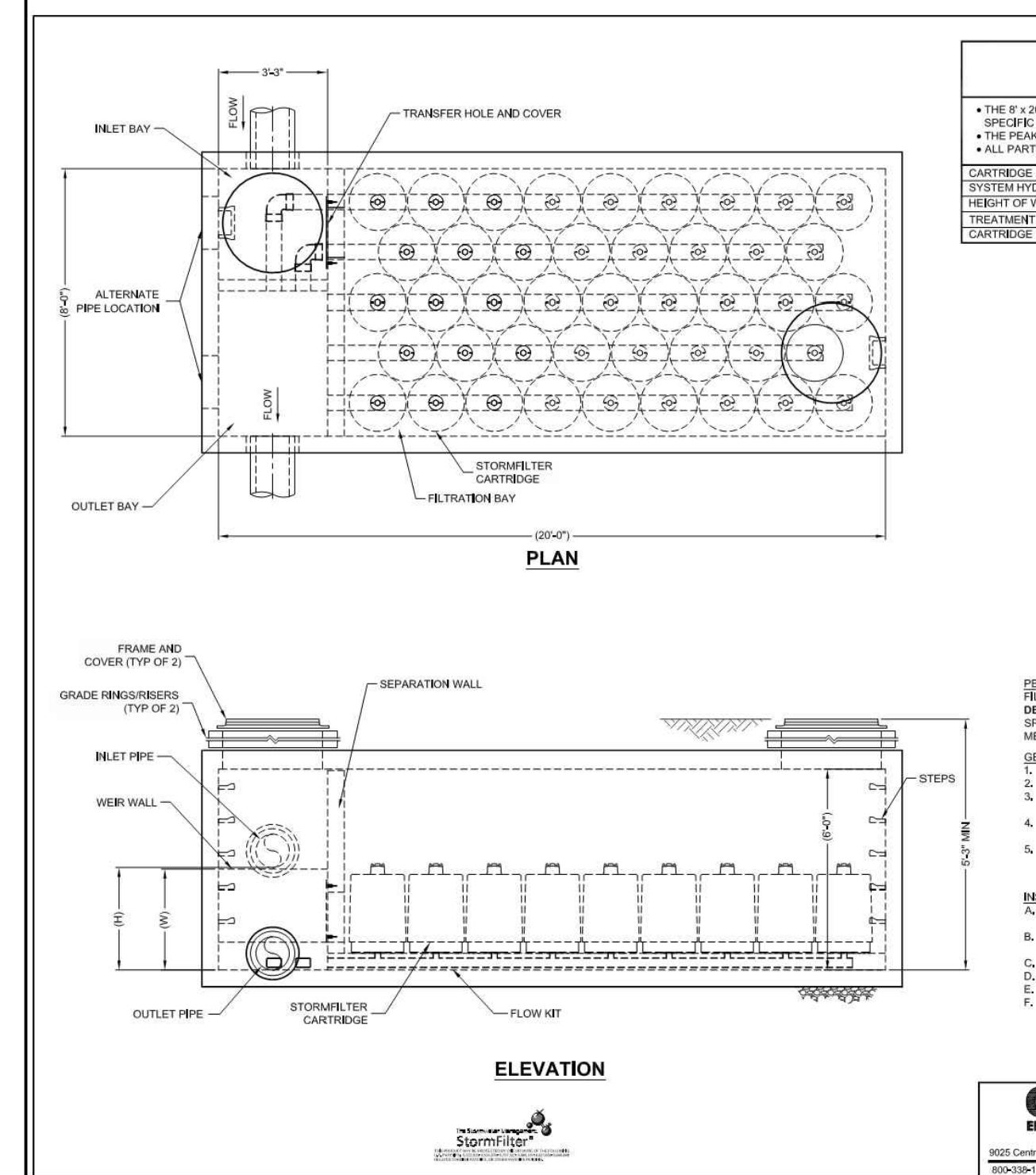
- BACKFILL AND EMBEDMENT TO OPSS - 802.010 CLASS 'B', GRANULAR 'A' EMBEDMENT.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL, AS APPROVED BY GEOTECHNICAL ENGINEER, OR IMPORTED GRANULAR MATERIAL. THROUGH BLOCKS TO OPSS - 1103.010 AND 1103.020 WHERE SUITABLE SOILS ARE ENCOUNTERED.
- SERVICE CONNECTIONS TO OPSS - 1104.010, 100mm GRANULAR 'A' EMBEDMENT AND COVER OVER PIPE. TERMINATE AT SERVING

- CORRIDOR LIMITS C/W CURB STOP AND BOX.
- HYDRANTS TO OPSS - 1105.010 DRAIN PLUGS SHALL BE INSTALLED WHERE HIGH WATER TABLE IS ENCOUNTERED.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- MINIMUM COVER ON WATERMAIN AND SERVICES TO BE 1.7m.
- GATE VALVES, BENDS AND HYDRANT LEADS AND FITTINGS TO BE CONNECTED WITH ROLMAC GRIPPER RING RESTRAINING GLANDS. CLEARANCE BETWEEN WATERMANS AND SEWERS TO BE AS PER M.E.C.P. GUIDELINES, MINIMUM 0.5m VERTICAL SEPARATION WHERE SEWER IS ABOVE WATERMAIN & 2.5m MINIMUM HORIZONTAL SEPARATION.
- ALL SERVICES TO BE DIRECT TAPPED.
- FOLLOWING TESTING, CONTRACTOR SHALL OPERATE EACH WATER SERVICE TO VERIFY FULL FLOW AND PRESSURE AT THE CURB STOP TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND TOWN OF COLLINGWOOD WATER DEPARTMENT.
- GENERAL INSTALLATION AND TESTING OF WATERMAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 441 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS. COMPLETE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH REQUIREMENTS OF AWWA STANDARD C651-99. REFER TO DETAIL ON DRAWING C113.B FOR TYPICAL TEMPORARY CONNECTION. ALL WATERMAIN TESTING & CHLORINATION WILL BE CONDUCTED BY A QUALIFIED THIRD PARTY AT THE CONTRACTOR'S COST. PROPOSED WATERMANS ARE NOT TO BE CONNECTED TO EXISTING WATERMANS UNTIL BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED & TO THE SATISFACTION OF THE TOWN.
- COMPLETE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH REQUIREMENTS OF O. REG. 459/00 & SATISFACTION OF TOWN OF COLLINGWOOD WATER DEPARTMENT.
- WATERMAIN - CLASS 52 OR PRESSURE CLASS 350 CEMENT LINED DUCTILE IRON OR APPROVED EQUIVALENT.
- SINGLE WATERMAIN SERVICES - 19mmØ TYPE 'K' COPPER PIPE. FOR DOUBLE WATER SERVICE, THE COMMON WATER SERVICE & MAIN STOP TO BE 25mmØ TYPE 'K' COPPER, SPLITTER FITTING SHOULD BE 'U' TYPE & LOCATED OUTSIDE OF DRIVEWAYS.
- MAIN STOPS TO 301-A4H4, BALL STYLE, AWWA THREAD BY CAMBRIDGE BRASS.
- CURB STOPS TO 203-H3H3, BALL STYLE WITH DRAIN. COMPRESSION JOINT BY CAMBRIDGE BRASS.
- A CURB STOP & EXTENSION SERVICE BOX & MAIN STOP MUST BE INSTALLED ON EACH SERVICE USING COMPRESSION JOINT FITTINGS.
- ALL CURB STOPS FOR SERVICES WITHIN ASPHALT TO BE LOCATED IN VALVE BOXES INSTALLED FLUSH TO FINISHED GRADE OF ASPHALT. CAP FOR VALVE BOX TO BE MARKED WITH 'W' & PAINTED BLUE. SERVICE BOXES TO NUMBER 7, D-11 GLOW OR MUELLER, 24" BLACK ROADS STRAIGHT C/W CAP PAINTED BLUE.
- ALL SERVICES SHALL BE METERED. METERS TO BE COMPLETE WITH REMOTE READOUT OR RADIO READ AS DETERMINED BY THE TOWN OF COLLINGWOOD WATER DEPARTMENT.
- HYDRANTS - CENTURY NUMBER 1, OPEN LEFT WITH 2 CSA HOSE PORTS, ONE STORZ 4" PUMPER PORT, AND A BREAK AWAY TYPE 6" MJ BASE.
- VALVES - RESILIENT SEATED, RSGV MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5-5L-48 SLIDING VALVE BOX C/W CAP PAINTED BLUE.
- MECHANICAL JOINT DUCTILE FITTINGS - AWWA/ANSI C153/A21.53.
- HYDRANT TO BE INSTALLED C/W HYDRANT MARKER STANDARDS PER TOWN OF COLLINGWOOD WATER DEPARTMENT STANDARD "FLEX" STAKE HYDRANT MARKER MODEL FHV804, 48" LONG, COLOUR YELLOW WITH REFLECTIVE HYDRANT GRAPHIC ON BOTH SIDES. MARKER TO BE POSITIONED ON THE RIGHT PORT AS VIEWED FROM STREET.
- 50mmØ WATER SERVICES - TYPE 'K' COPPER, 100mmØ SERVICES WILL BE DUCTILE IRON.
- ALL VALVES TO BE OPERATED BY THE TOWN OF COLLINGWOOD WATER DEPARTMENT. CONTRACTOR TO PROVIDE MIN. 48 HOUR NOTIFICATION FOR REQUEST.
- HYDRANTS ARE TO BE 1.67m (5'6") LONG. MAKE-UP PIECES, IF REQUIRED, ARE TO BE INSTALLED BELOW THE HYDRANT.
- ALL WATERMAIN FITTINGS TO BE LEAD FREE.
- MECHANICAL JOINT RESTRAINTS TO BE USED DURING TRANSITION OF WATERMAIN INSTALLATION IN NATIVE SOILS TO ENGINEERED FILL. MECHANICAL JOINT RESTRAINTS TO BE BINA-LUG OR APPROVED EQUAL. FINAL LIMITS TO BE FIELD DECISION.
- PREMISE PROTECTION BACKFLOW PREVENTION DEVICES AS PER CSA B64.10-11/B64.101-11, OBC AND THE TOWN WATER BY-LAW SHALL BE PROVIDED FOR APARTMENT BUILDINGS AND RECREATIONAL FACILITIES.
- THE TOWN SHALL HAVE ONE WATER METER, CONNECTED TO ONE WATER BILL. ADDITIONAL METERS CAN BE ADDED INTERNALLY AS REQUIRED.

**E) STORM SEWERS**

- MH TO OPSS 701.010 AND DCBMH TO OPSS - 701.011, C/W SUMP UNLESS NOTED OTHERWISE.
- STEPS TO OPSS 405.010.
- MH FRAMES AND GRATES TO OPSS - 401.01 OPEN COVER.
- DIC'S TO OPSS - 705.030, 705.040.
- DCBMH FRAMES AND GRATES TO OPSS - 400.020.
- PIPE SUPPORT AT DCBMH'S TO OPSS - 708.020.
- DCB LEADS - 300mm Ø DOUBLE TO OPSS - 708.010, 708.030.
- PROTECTION DURING CONSTRUCTION TO OPSS - 808.010.
- BACKFILL AND EMBEDMENT TO OPSS - 802.010 (FLEXIBLE PIPE) CLASS 'B', GRANULAR 'A' EMBEDMENT OR OPSS - 802.030, 802.031 AND 802.032 (RIGID PIPE) GRANULAR 'A' EMBEDMENT. COVER MATERIAL FOR RIGID PIPE MUST BE CERTIFIED BY GEOTECHNICAL CONSULTANT PRIOR TO USING FOR REMAINING PIPE EMBEDMENT.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.
- MAIN SEWERS OVER 450mmØ SHALL BE CONCRETE PIPE (OPSS 1820), PIPE INSTALLED BENEATH THE ROADWAYS SHALL BE REINFORCED PER CSA A257.2, CLASS 50-D. MAIN SEWERS 450mmØ AND UNDER SHALL BE PVC PIPE (OPSS 410), MIN. PIPE STIFFNESS SHALL BE 320 kPa. PIPE INSTALLED WITHIN LANDSCAPED AREAS CAN BE NON-REINFORCED PER CSA A257.1 CLASS 3. ALL PIPE TO BE JOINED WITH A GASKETED BELL AND SPIGOT SYSTEM.
- FROST STRAPS PER OPSD 701.100.
- STORM SERVICES TO BE 100mmØ PVC SDR28 COLORED WHITE FOR TOWNHOUSE UNITS AND 200mmØ PVC SDR35 FOR MIDRISE BUILDINGS.
- STORM SERVICES CONNECTING TO CONCRETE STORM SEWERS TO BE MADE USING CORE METHOD AND PRE-MANUFACTURED BOOT.
- STORM SERVICE TO BE MARKED WITH A 2"x4" STAKE PAINTED WHITE.
- MINIMUM COVER ON STORM SEWER AND SERVICE TO BE 1.5m AS PER TOWN OF COLLINGWOOD STANDARDS.

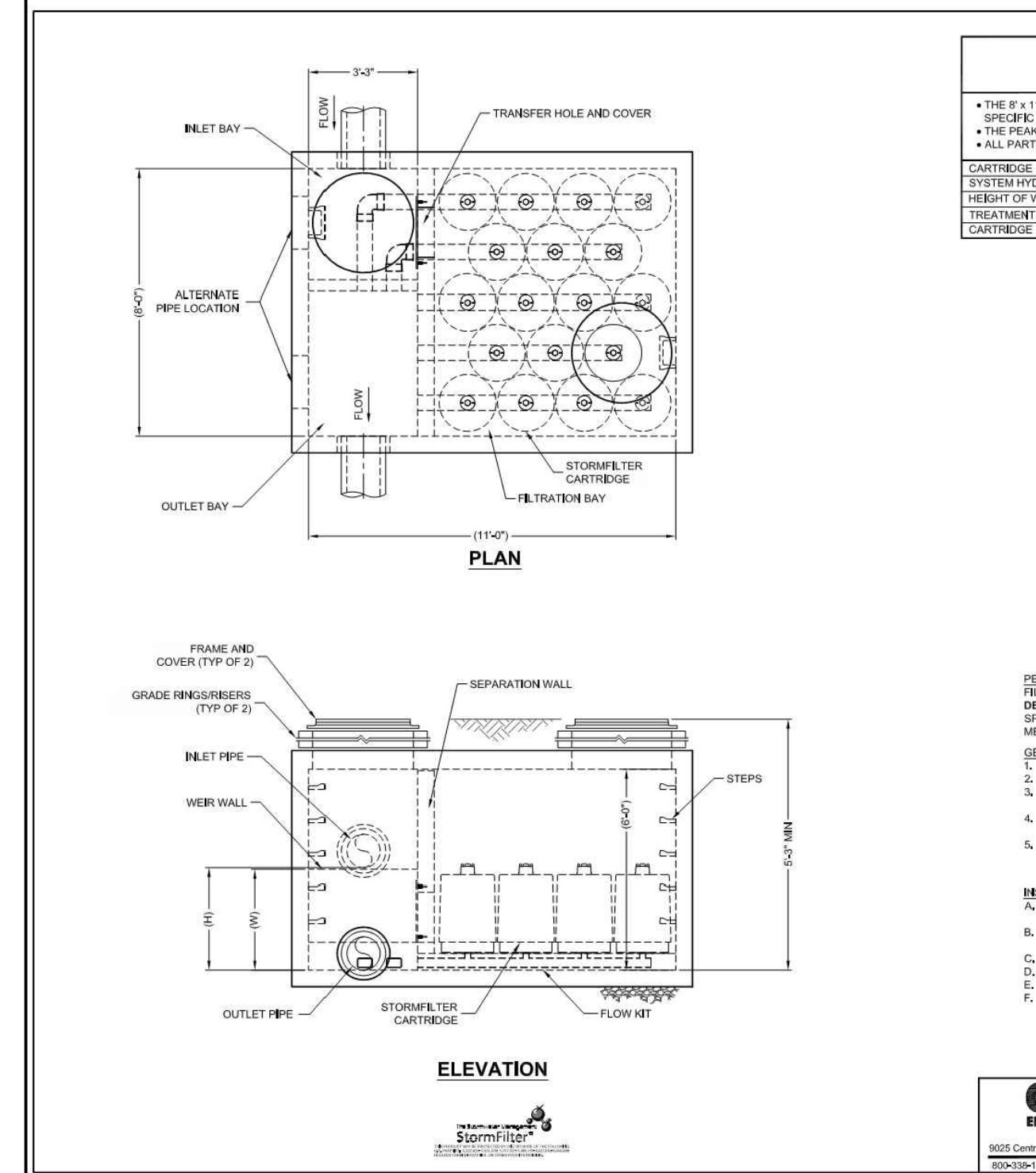
**STORMFILTER 2**  
SCALE: N.T.S.



**CONTECH ENGINEERING SOLUTIONS INC.**  
2055 Centre Parkway Dr., Suite 401, West Chester, OH 45386  
937-634-1312 937-634-7000 937-634-7001 FAX

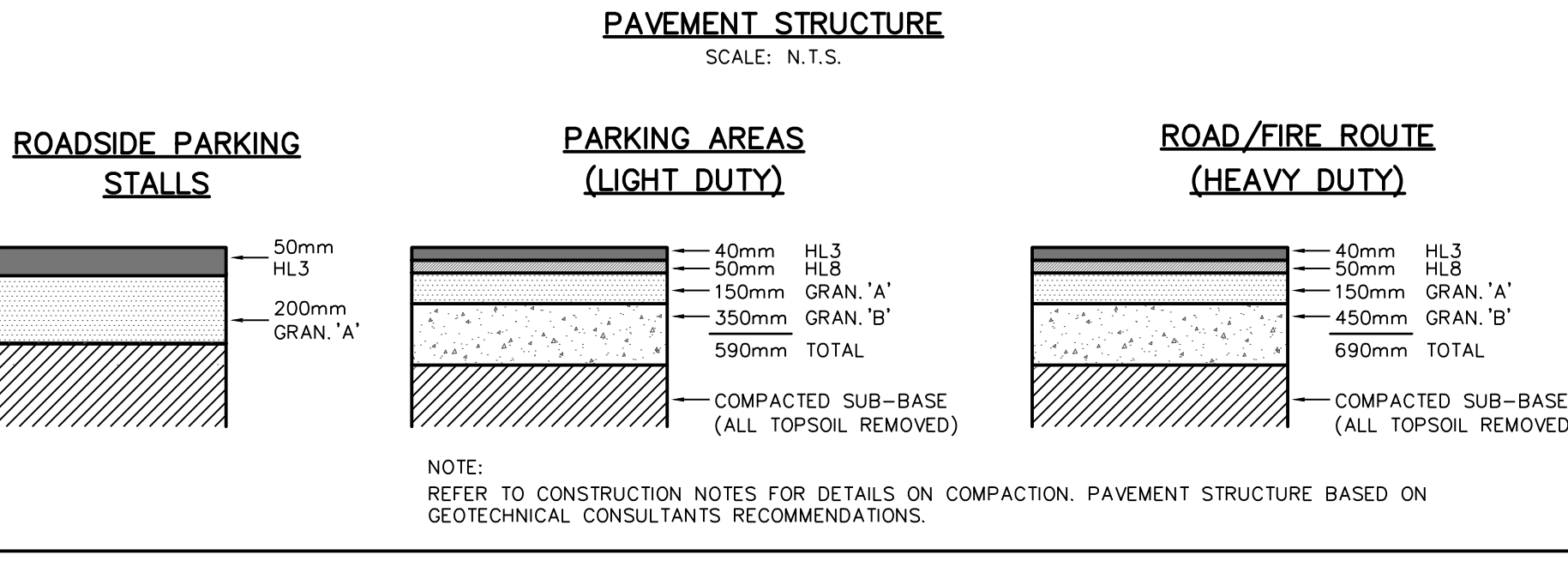
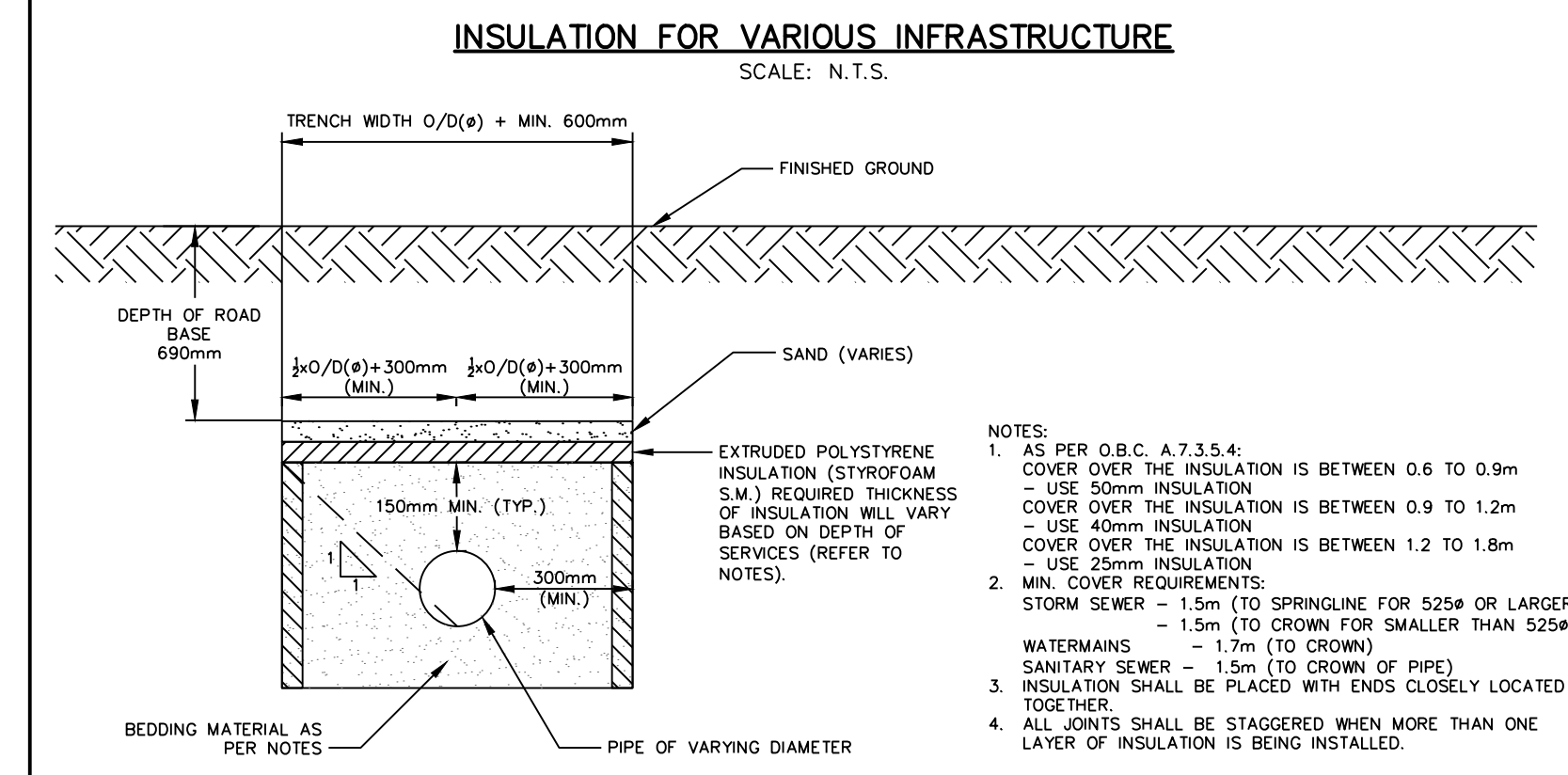
THE STORMWATER MANAGEMENT STORMFILTER  
8' x 20' PEAK DIVERSION STORMFILTER  
STANDARD DETAIL

**STORMFILTER 1**  
SCALE: N.T.S.

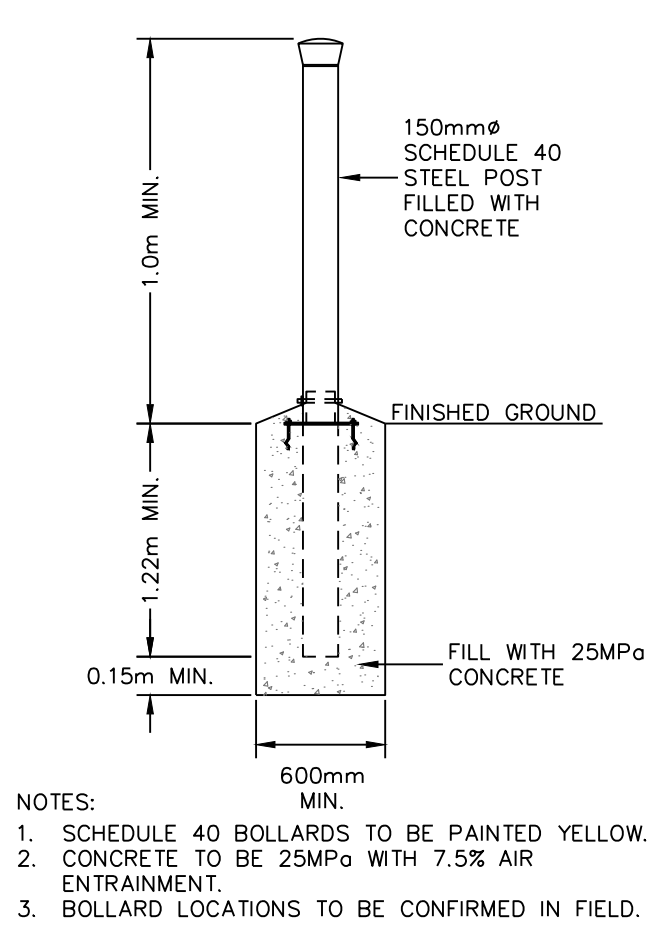


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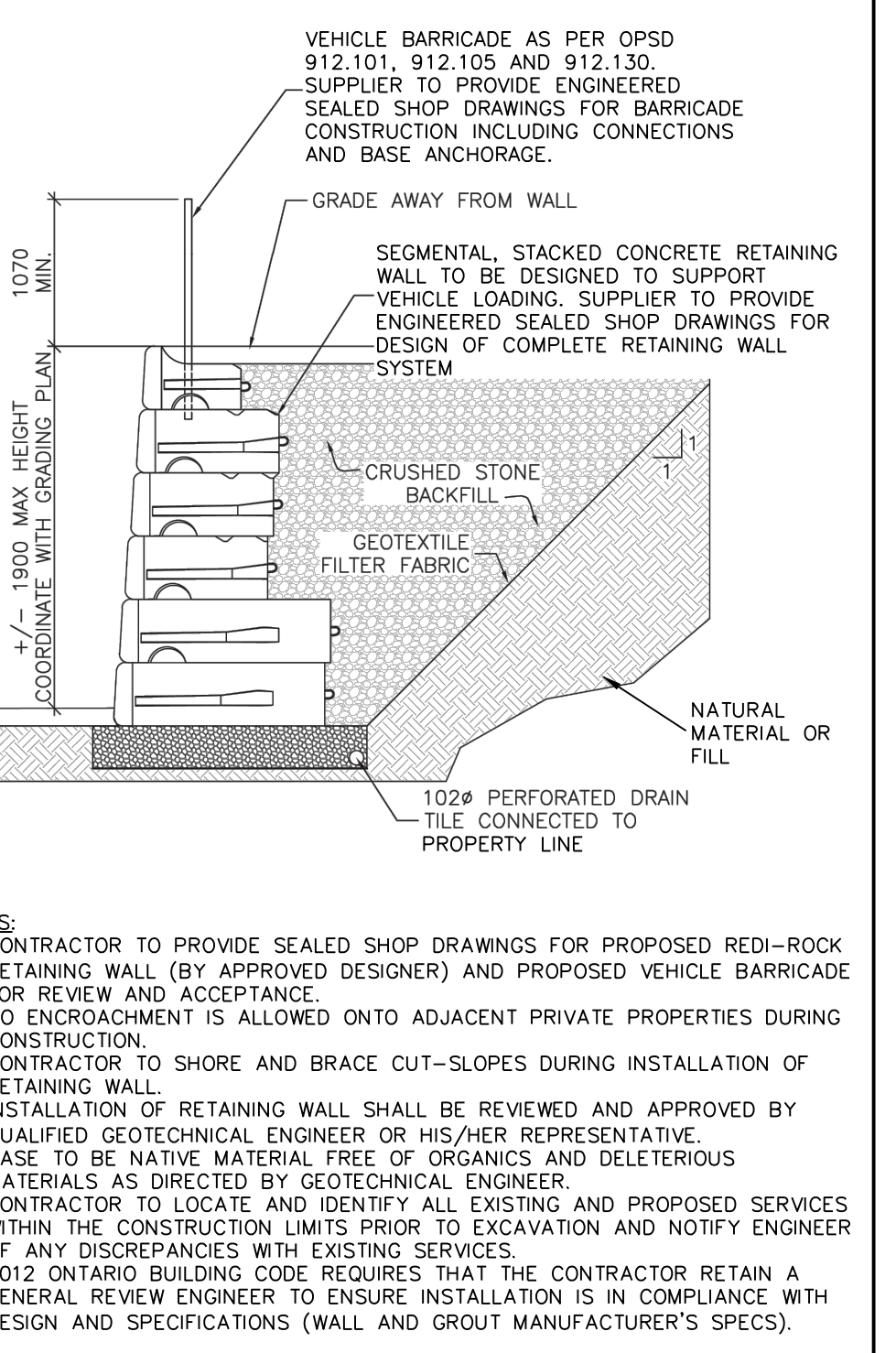
THE STORMWATER MANAGEMENT STORMFILTER  
8' x 11' PEAK DIVERSION STORMFILTER  
STANDARD DETAIL



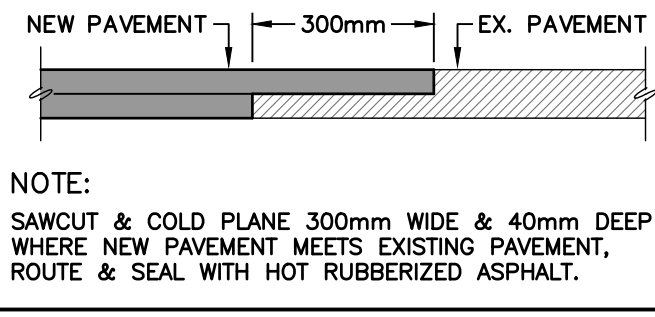
**TYPICAL BOLLARD DETAIL**  
SCALE: N.T.S.



**TYPICAL REDI-ROCK RETAINING WALL DETAIL - 1.9m MAX. HEIGHT**  
SCALE: N.T.S.



**LAP JOINT DETAIL**  
N.T.S.



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- ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

**BENCHMARKS**

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE RELATED TO TOWN OF COLLINGWOOD BENCH MARK NO. 001720311 HAVING AN ELEVATION OF 181.032 METRES.

TOPOGRAPHIC SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., DATED AUGUST 25, 2018.

No.	ISSUE	DATE: MM/DD/YYYY	Engineer
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019	K. A. MORRIS
2	ISSUED FOR DISCUSSION	02/10/2020	
3	ISSUED FOR 2nd ENGINEERING SUBMISSION	04/08/2021	
4	ISSUED FOR 3rd ENGINEERING SUBMISSION	01/14/2022	
5	ISSUED FOR 4th ENGINEERING SUBMISSION	03/10/2023	
6	ISSUED FOR 5th ENGINEERING SUBMISSION	04/10/2024	
7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024	

**CONTECH ENGINEERING SOLUTIONS INC.**  
2055 Centre Parkway Dr., Suite 401, West Chester, OH 45386  
937-634-1312 937-634-7000 937-634-7001 FAX

THE STORMWATER MANAGEMENT STORMFILTER  
8' x 11' PEAK DIVERSION STORMFILTER  
STANDARD DETAIL

**PROFESSIONAL ENGINEER**  
K. A. MORRIS  
PROVINCE OF ONTARIO

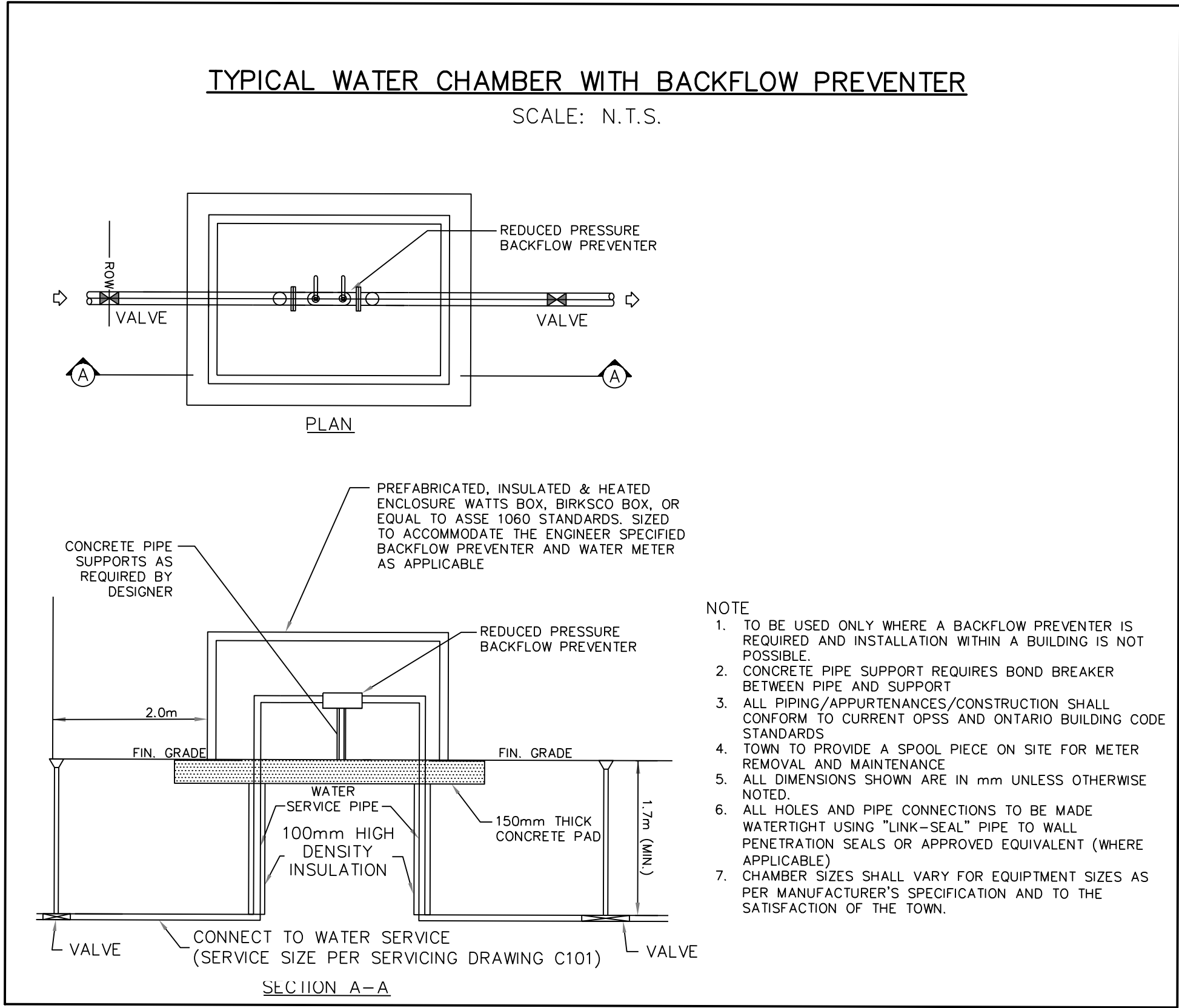
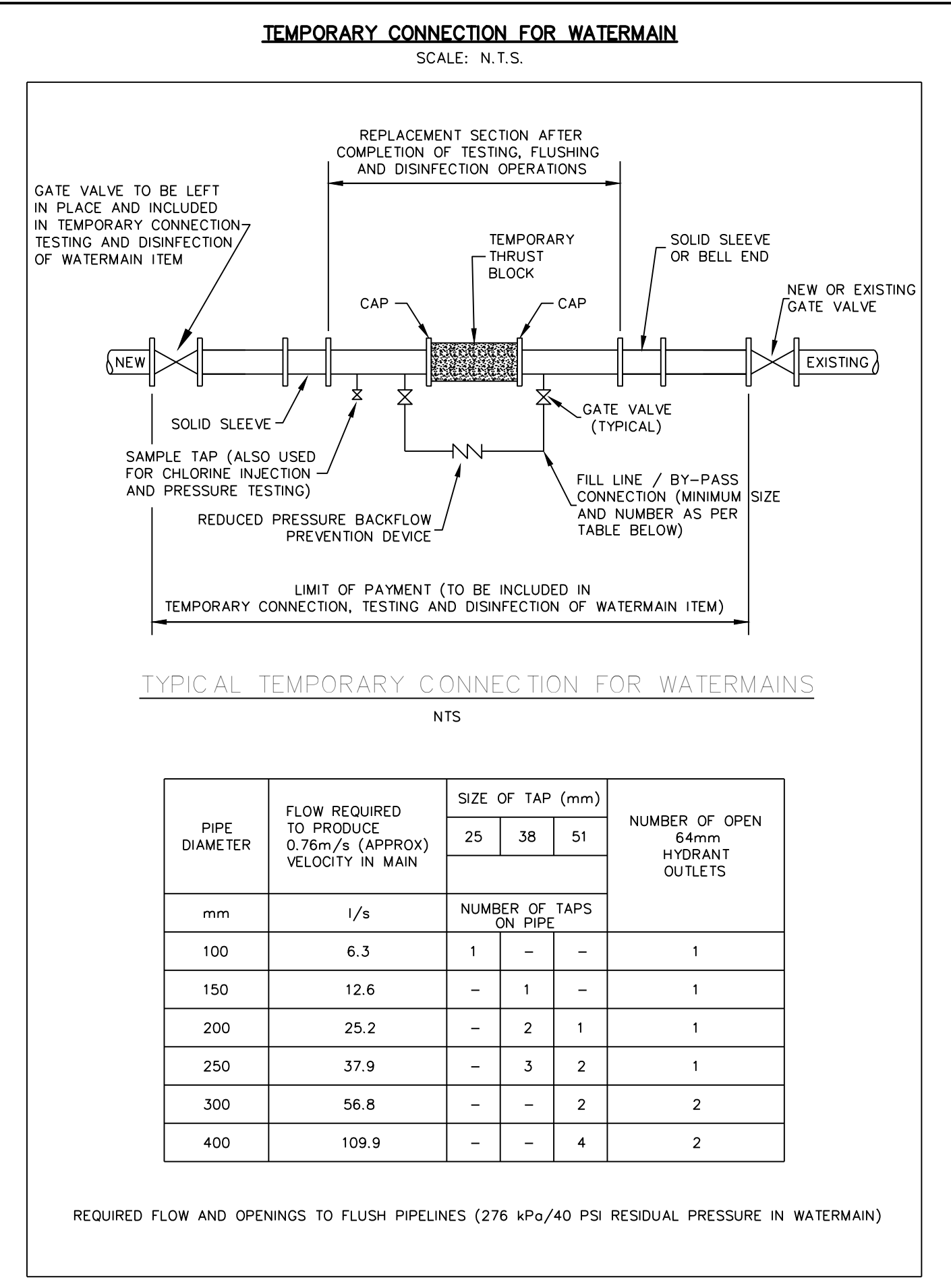
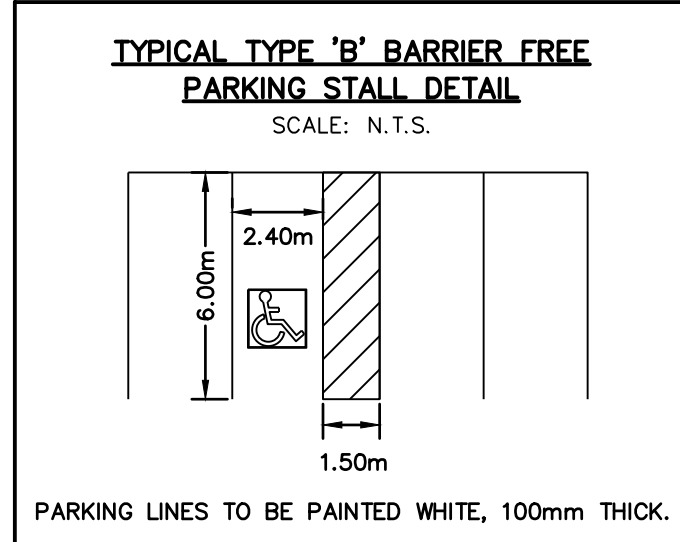
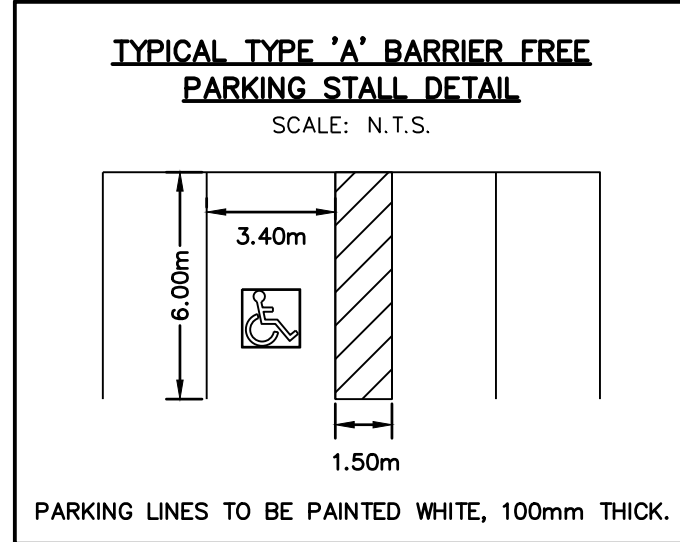
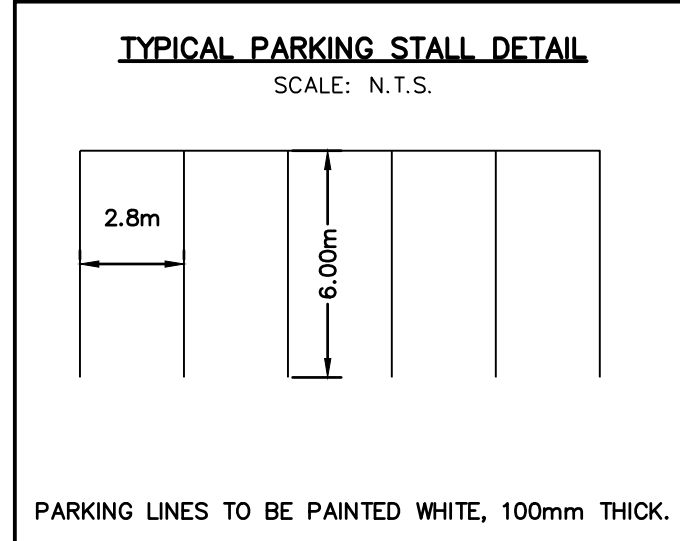
**PROFESSIONAL ENGINEER**  
R.A. ALEXANDER  
100213093  
December 20, 2024  
PROVINCE OF ONTARIO

WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD

CONSTRUCTION NOTES AND  
STANDARD DETAILS

**CROZIER CONSULTING ENGINEERS**

Drawn By: L.W. Design By: L.W. Project: 1535-4897  
Check By: K.M. Check By: R.A. Scale: AS NOTED Drawing: C113.A



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**BENCHMARKS**  
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE RELATED TO TOWN OF COLLINGWOOD BENCH MARK NO. 00172U311 HAVING AN ELEVATION OF 181.032 METRES.  
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7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024

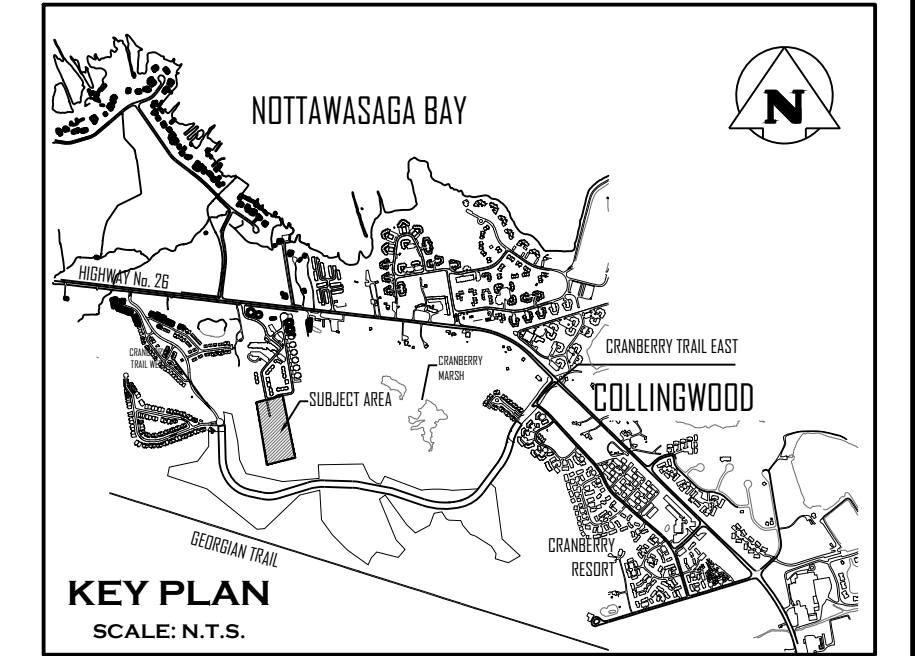
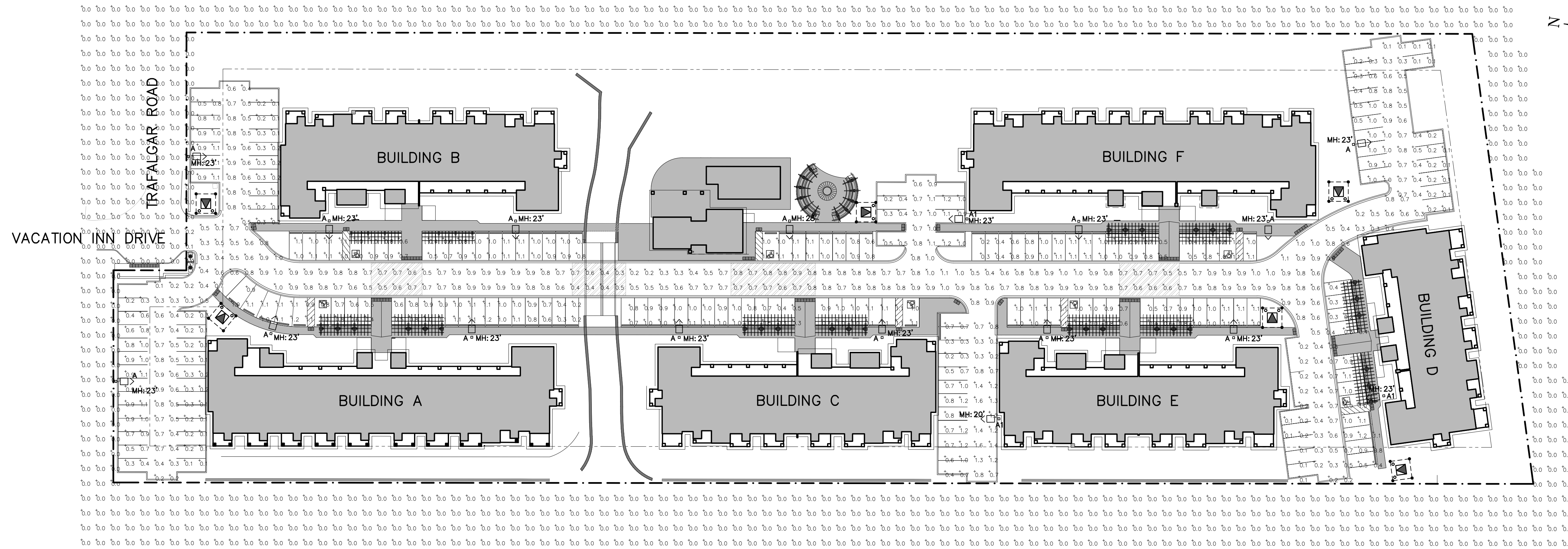
Engineer  
**K. A. MORRIS**  
LICENSED PROFESSIONAL ENGINEER  
PROVINCE OF ONTARIO

Engineer  
**R. A. ALEXANDER**  
LICENSED PROFESSIONAL ENGINEER  
PROVINCE OF ONTARIO

Project  
**WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD**  
Drawing  
**CONSTRUCTION NOTES AND  
STANDARD DETAILS**

**CROZIER CONSULTING ENGINEERS**  
Drawn By: L.W. Design By: L.W. Project: **1535-4897**  
Check By: K.M. Check By: R.A. Scale: AS NOTED Drawing: **C113.B**

Town

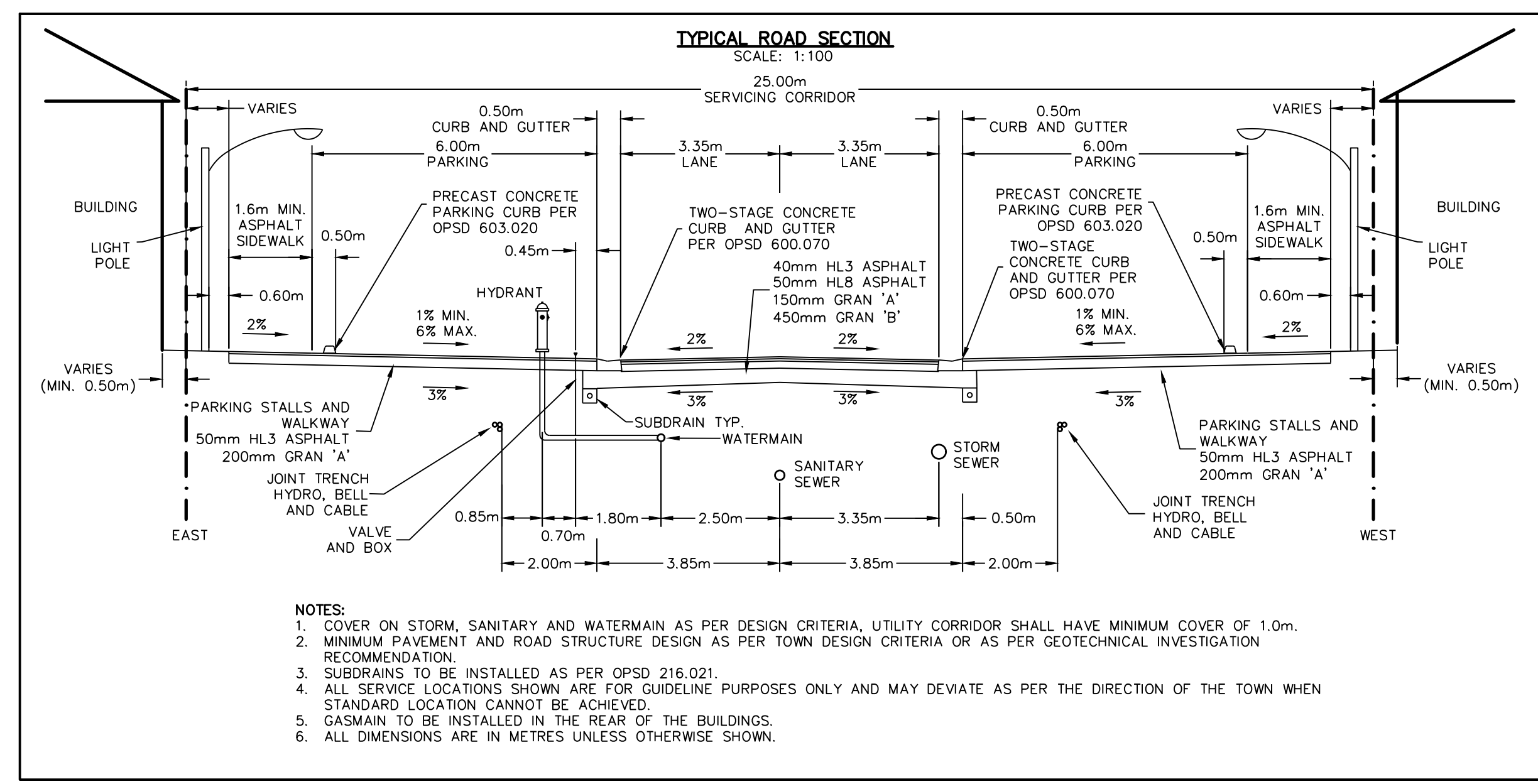


ELECTRICAL LEGEND	
	POLE MOUNTED LIGHT FIXTURE
	PROPERTY LINE
	PAD MOUNTED TRANSFORMER, ARROW INDICATES OPERATING SIDE (DIRECTION OF APPROACH)

ELECTRICAL DRAWING LIST	
E100	SITE PLAN – PHOTOMETRIC
E101	SITE LIGHTING DETAILS

**SITE PLAN – PHOTOMETRIC**  
SCALE: 1:500

STATISTICS SCHEDULE					TARGET VALUES			
DESCRIPTION	SYMBOL	AVG	MAX	MIN	AVG/MIN	ROADWAY TYPE CLASSIFICATION	AVG	AVG/MIN
RIGHT OF WAY	X	0.7 fc	1.1 fc	0.2 fc	3.6:1	LOCAL/MEDIUM	0.5 fc	6.0:1
BUILDING A EAST PARKING	+	0.9 fc	1.2 fc	0.2 fc	4.3:1	PARKING AREA	0.2 fc	6.0:1
BUILDING A NORTH PARKING	+	0.5 fc	1.1 fc	0.1 fc	4.9:1	PARKING AREA	0.2 fc	6.0:1
BUILDING B EAST PARKING	+	0.5 fc	1.0 fc	0.1 fc	5.0:1	PARKING AREA	0.2 fc	6.0:1
BUILDING B NORTH PARKING	+	0.6 fc	1.1 fc	0.1 fc	5.5:1	PARKING AREA	0.2 fc	6.0:1
BUILDING B WEST PARKING	+	0.9 fc	1.1 fc	0.4 fc	2.3:1	PARKING AREA	0.2 fc	6.0:1
BUILDING C EAST PARKING	+	0.9 fc	1.1 fc	0.3 fc	3.0:1	PARKING AREA	0.2 fc	6.0:1
BUILDING D NORTH PARKING	+	0.5 fc	1.2 fc	0.1 fc	5.2:1	PARKING AREA	0.2 fc	6.0:1
BUILDING E EAST PARKING	+	0.9 fc	1.1 fc	0.4 fc	2.3:1	PARKING AREA	0.2 fc	6.0:1
BUILDING E NORTH PARKING	+	0.9 fc	1.6 fc	0.2 fc	4.3:1	PARKING AREA	0.2 fc	6.0:1
BUILDING F NORTH PARKING	+	0.8 fc	1.2 fc	0.2 fc	4.0:1	PARKING AREA	0.2 fc	6.0:1
BUILDING F WEST PARKING	+	0.8 fc	1.1 fc	0.2 fc	4.1:1	PARKING AREA	0.2 fc	6.0:1
POOL PARKING	+	1.0 fc	1.1 fc	0.6 fc	1.6:1	PARKING AREA	0.2 fc	6.0:1



- NOTES:**
- COVER ON STORM, SANITARY AND WATERMAIN AS PER DESIGN CRITERIA, UTILITY CORRIDOR SHALL HAVE MINIMUM COVER OF 1.0m.
  - MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWN DESIGN CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
  - SUBDRAINS TO BE INSTALLED AS PER OPSD 216.021.
  - ALL SERVICE LOCATIONS SHOWN ARE FOR GUIDELINE PURPOSES ONLY AND MAY DEVIATE AS PER THE DIRECTION OF THE TOWN WHEN STANDARD LOCATION CANNOT BE ACHIEVED.
  - GASMAIN TO BE INSTALLED IN THE REAR OF THE BUILDINGS.
  - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.



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7	ISSUED FOR 6th ENGINEERING SUBMISSION	12/20/2024



Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD

Drawing: SITE PLAN – PHOTOMETRIC

**CROZIER CONSULTING ENGINEERS**

THE HARBOUREdge BUILDING, 40 HURON STREET, SUITE 301, COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T / 705 446-3520 F  
WWW.CFCROZIER.CA / INFO@CFCROZIER.CA

Drawn By: T.S.D. Design By: T.S.D. Project: 1535-4897  
Check By: P.W. Scale: 1:500 Drawing: E100

SOLID STATE AREA LIGHTING

**RAZAR SERIES-LED**  
SPECIFICATIONS

**OPTICAL HOUSING:**  
Heavy cast low copper aluminum (A356 alloy -0.2% copper) assembly with integral cooling fins. The Optical Housing mounting surface is milled flat (surface variance $\pm 0.002''$) to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

**ELECTRICAL HOUSING w/ INTEGRATED ARM:**  
Heavy cast low copper aluminum (A356 alloy -0.2% copper) assembly with integral cooling fins surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

**PLED OPTICS:**  
Emitters (LED's) are mounted on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In pyrametric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel or group of Panels in a luminaire have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

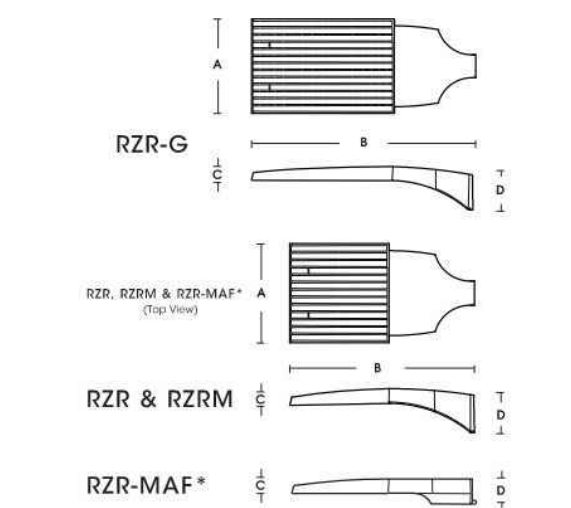
**LED DRIVER(S):**  
Constant current electronic with a power factor of > .90 and a minimum operating temperature of 40°F/40°C. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical array. Drivers accept an input of 120-277V, 50/60Hz, or 347V-480V, 50/60Hz, 0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaires supplied with 20KV surge protector for field accessible installation.

**LED EMITTERS:**  
High output LED's are utilized with drive currents ranging from 350mA to 1650mA, 70°C. Minimum LED's are available in standard Neutral White (4000K) or optional Cool White (5000K) or Warm White (3000K). Consult factory for other LED options.

**AMBER LED'S:**  
PCA (Phosphor Converted Amber) LED's utilize phosphors to create color output similar to PS lamps and have a slight output in the blue spectral bandwidth. TRA (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

**FINISH:**  
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

**MAST ARM FITTER/ELECTRICAL HOUSING:**  
Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon. Two (2) strips with two (2) bolts each encircle the lower half of the tenon. Upper half of the tenon rests on self-centering steps that position the angle of the luminaire at 0°, +1.5°, +1.5° or +3° up from the horizontal. All hardware is stainless steel.

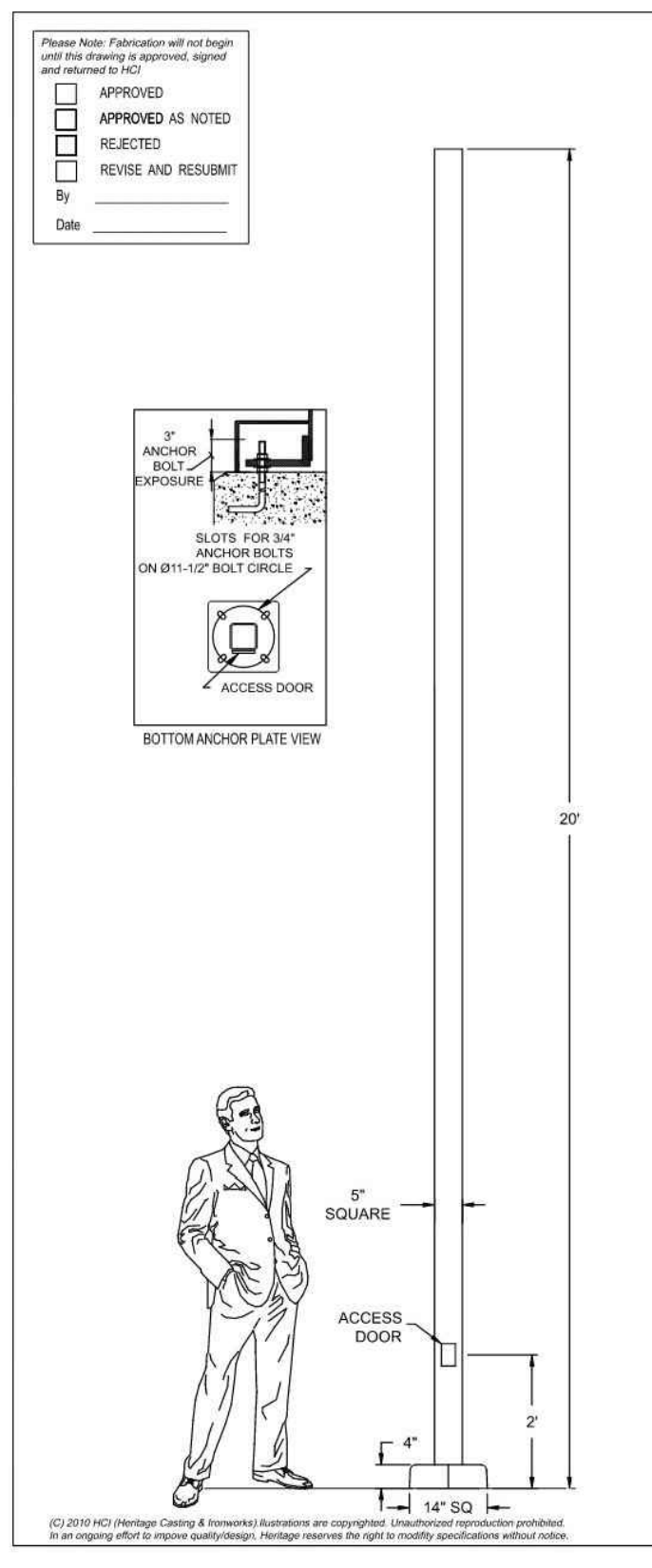


FIXTURE	A	B	C	D
RZR-G	15"	26.4"	3"	7"
RZR	14.75"	26.25"	2.75"	6.5"
RZM	11.5"	22"	2.5"	5.25"
RZR-MAF	15"	28.25"	3.5"	4"

*DLC PENDING AS OF 7/17



U.S. Architectural Lighting

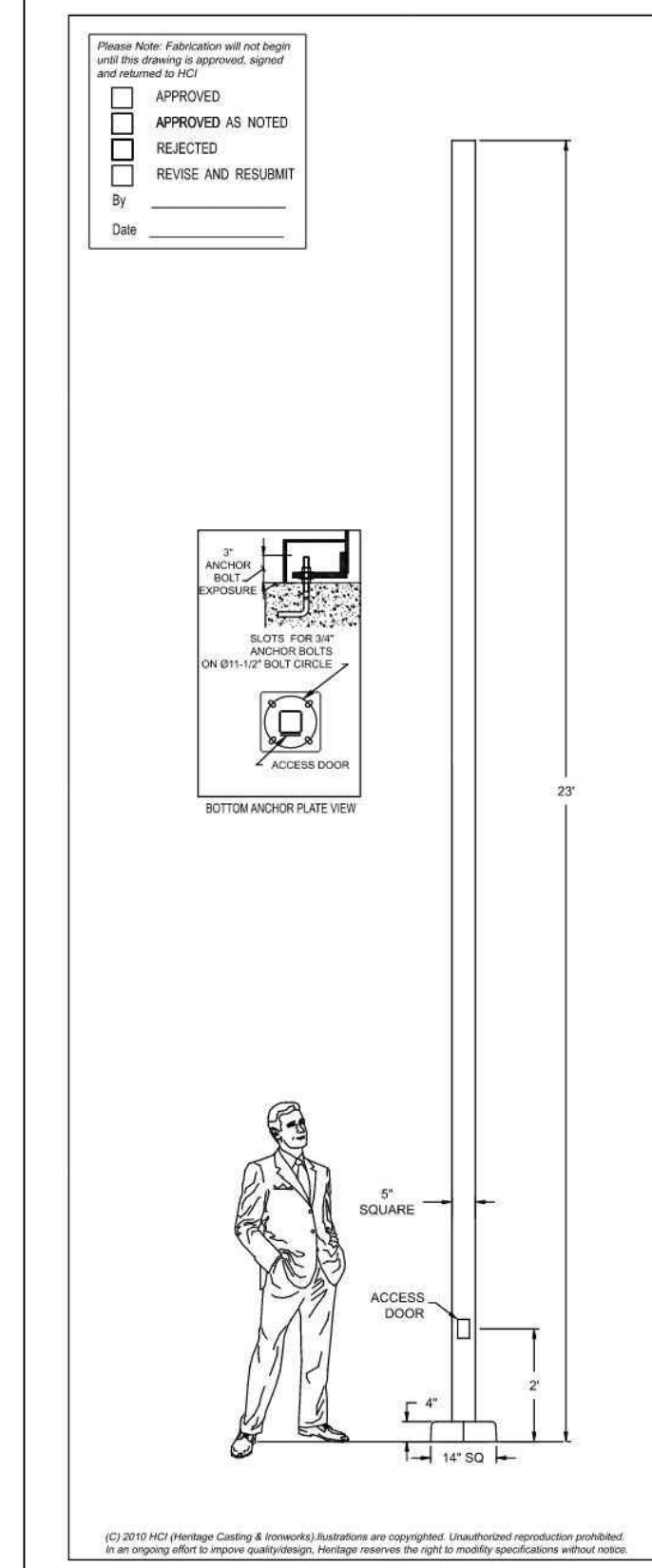


**Approval Drawing** TYPE A, A1  
Pole Std: P422-2-5SQ-20

**Sales:** KIM      **Designer:** ROMIL  
**Date:** DEC. 17, 2021      **Drawing No:** 11344-V8  
**Model:** P422-2-5SQ-20-RALXXXX  
**Project:** - (QTY: TBD)  
**Rep:** -

Please Note: Fabrication will not begin until this drawing is approved, signed and returned to HCI.

**HCI**  
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Tel: (905) 238-2648      Fax: (905) 238-9060  
Toll Free Canada & USA      1-800-267-3175  
E: sales@hclighting.com      WEB: www.hclighting.com



**Approval Drawing** TYPE A1  
Pole Std: P422-2-5SQ-23

**Sales:** KIM      **Designer:** ROMIL  
**Date:** DEC. 17, 2021      **Drawing No:** 11344-V8-R2  
**Model:** P422-2-5SQ-23-RALXXXX  
**Project:** - (QTY: TBD)  
**Rep:** -

Please Note: Fabrication will not begin until this drawing is approved, signed and returned to HCI.

**HCI**  
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Tel: (905) 238-2648      Fax: (905) 238-9060  
Toll Free Canada & USA      1-800-267-3175  
E: sales@hclighting.com      WEB: www.hclighting.com

LUMINAIRE SCHEDULE							
SYMBOL	LABEL	MANUFACTURER	CATALOG NUMBER	LIGHT LOSS FACTOR	MOUNTING HEIGHT	WATTAGE	DESCRIPTION
□ >	A	US ARCHITECTURAL	RZR-M-PLED-III-M-40LED-350mA-30K-HS	0.85	REFER TO SITE PLAN DRAWINGS FOR MOUNTING HEIGHT	43W	RZRM MODEL WITH HOUSE SHIELD, TYPE III, 40LED, 3000K, 350mA
□ >	A1	US ARCHITECTURAL	RZR-MAF-IV-M-40LED-350mA-30K-HS	0.85	REFER TO SITE PLAN DRAWINGS FOR MOUNTING HEIGHT	43W	RZRM MODEL WITH HOUSE SHIELD, TYPE IV, 40LED, 3000K, 350mA

- THE FOLLOWING NOTATIONS APPLY TO ALL LUMINAIRES IN SCHEDULE, UNLESS OTHERWISE NOTED:**
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE PHOTOCELLS AS REQUIRED. COORDINATE EXACT LOCATION & REQUIREMENTS WITH LIGHT MANUFACTURER.
  - ALL PROPOSED NEW FIXTURES ARE TO BE DARK SKY COMPLIANT.

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Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD

Drawing: SITE LIGHTING DETAILS

**CROZIER CONSULTING ENGINEERS**

THE HARBOUREdge BUILDING,  
40 HURON STREET, SUITE 301,  
COLLINGWOOD, ON L9Y 4R3  
705 446-3510 T  
705 446-3520 F  
WWW.CFCROZIER.CA  
INFO@CFCROZIER.CA

Drawn By: T.S.D.      Design By: T.S.D.      Project: **1535-4897**

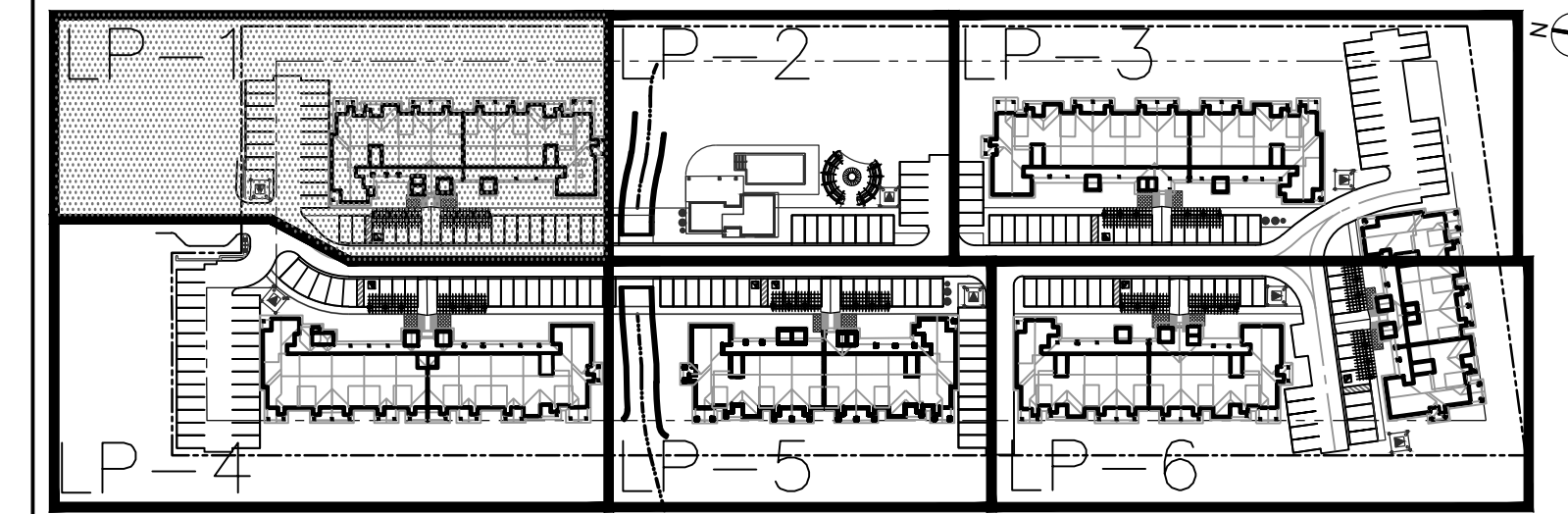
Check By: P.W.      Scale: N.T.S.      Drawing: **E101**

**LEGEND**

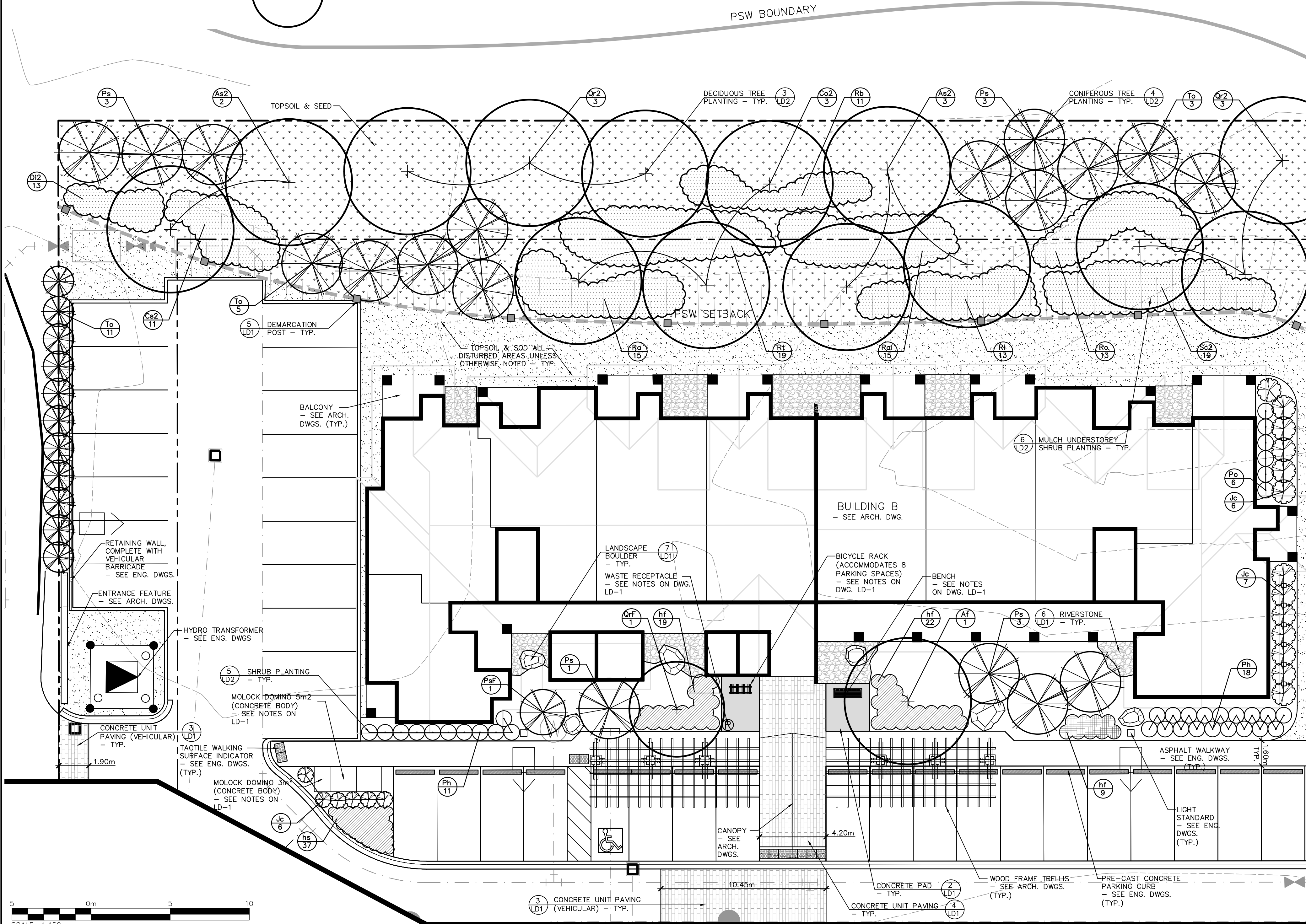
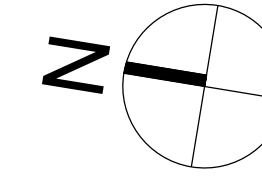
	PROPERTY BOUNDARY		CONCRETE UNIT PAVING		CONIFEROUS TREE		PERENNIALS & GROUNDCOVERS
	BUILDING SETBACK		CONCRETE PAD		DECIDUOUS SHRUB		PLANT REFERENCE
	PSW BOUNDARY		RIVERSTONE		CONIFEROUS SHRUB		TOPSOIL AND SOD
	PSW SETBACK		LANDSCAPE BOULDER		SHRUB GROUPING		TOPSOIL AND SIMCOE COUNTY NATIVE SEED
	BENCH		DECIDUOUS TREE				
	WASTE RECEPTACLE						
	BICYCLE RACK						
	UNDERGROUND SERVICES - SEE ENG. DWGS						

- NOTES:**
- FOR PLANT LIST AND GENERAL PLANTING NOTES, REFER TO DRAWING LD-1.
  - TREE PITS OR PLANTING BEDS WITHIN 1.0m OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.
  - IRRIGATION SHALL BE PROVIDED WITHIN THE FEATURE PLANTING BEDS.
  - MINIMUM CLEARANCES FOR TREES ARE AS FOLLOWS:

MINIMUM TREE CLEARANCES	
FIRE HYDRANT	3.0m
BACK OF CURB	1.5m
HYDRO TRANSFORMERS	3.0m
BELL OR CABLE PEDESTALS	1.0m
LIGHTING POLES	5.0m
UNDERGROUND SERVICES	1.0m



SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD



PLANT LIST						
KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	QTY
<b>DECIDUOUS TREES</b>						
Aa	<i>Acer saccharum</i>	Legacy Sugar Maple	50mm cal.	W.B.		2
Aa2	<i>Acer saccharum</i>	Sugar Maple	40mm cal.	W.B.		13
Af	<i>Acer x freemanii</i>	Autumn Blaze Maple	50mm cal.	W.B.		8
Am	<i>Amelanchier laevis</i>	Multi-stem Allegheny	200cm	W.B.		2
Ca	<i>Carya ovata</i>	Shagbark Hickory	50mm cal.	W.B.		6
Ca2	<i>Carya ovata</i>	Shagbark Hickory	40mm cal.	W.B.		9
Co	<i>Celtis occidentalis</i>	Common Hackberry	50mm cal.	W.B.		5
Co2	<i>Celtis occidentalis</i>	Common Hackberry	40mm cal.	W.B.		9
Gt	<i>Gleditsia triacanthos</i>	Shademaster Honeylocust	50mm cal.	W.B.		4
QrF	<i>Quercus robur</i>	Columnar English Oak	50mm cal.	W.B.		9
Qr	<i>Quercus rubra</i>	Red Oak	50mm cal.	W.B.		5
Qr2	<i>Quercus rubra</i>	Red Oak	40mm cal.	W.B.		9
Ta	<i>Tilia americana</i>	Basswood	50mm cal.	W.B.		6
<b>CONIFEROUS TREES</b>						
Pg	<i>Picea glauca</i>	White Spruce	200cm	W.B.		31
Pa	<i>Pinus strobus</i>	Eastern White Pine	200cm	W.B.		50
PaF	<i>Pinus strobus</i>	Columnar Eastern White Pine	200cm	W.B.		23
To	<i>Thuja occidentalis</i>	Eastern White Cedar	200cm	W.B.		63
ToE	<i>Thuja occidentalis</i>	Emerald Cedar	200cm	W.B.		8
<b>DECIDUOUS SHRUBS</b>						
Cs	<i>Cornus sericea</i>	Red Osier Dogwood	50cm	3 gal.	1.5m o.c.	13
Cs2	<i>Cornus sericea</i>	Red Osier Dogwood	50cm	1 gal.	1.5m o.c.	35
Di	<i>Diervilla lonicera</i>	Bush Honeysuckle	40cm	3 gal.	1.0m o.c.	7
Di2	<i>Diervilla lonicera</i>	Bush Honeysuckle	40cm	1 gal.	1.0m o.c.	58
Po	<i>Physocarpus opulifolius</i>	Tiny Wine Gold Ninebark	50cm	3 gal.	1.0m o.c.	58
Ph	<i>Physocarpus opulifolius</i>	Tiny Wine Ninebark	50cm	3 gal.	1.0m o.c.	56
Ra	<i>Ribes americanum</i>	Wild Black Currant	50cm	1 gal.	1.5m o.c.	41
Ral	<i>Rubus allegheniensis</i>	Allegheny Blackberry	50cm	1 gal.	1.5m o.c.	28
Rb	<i>Rosa blanda</i>	Smooth Rose	50cm	1 gal.	1.5m o.c.	29
Ri	<i>Rubus idaeus</i> ssp. <i>strigosus</i>	Wild Red Raspberry	50cm	1 gal.	1.5m o.c.	22
Ro	<i>Rubus occidentalis</i>	Black Raspberry	50cm	1 gal.	1.5m o.c.	54
Rt	<i>Rhus typhina</i>	Staghorn Sumac	50cm	1 gal.	1.5m o.c.	41
Sc	<i>Sambucus canadensis</i>	Common Elderberry	50cm	3 gal.	1.5m o.c.	39
Sc2	<i>Sambucus canadensis</i>	Common Elderberry	50cm	1 gal.	1.5m o.c.	19
<b>CONIFEROUS SHRUBS</b>						
Jc	<i>Juniperus chinensis</i>	Green Sargent Juniper	50cm	3 gal.	1.5m o.c.	80
<b>PERENNIALS &amp; GROUNDCOVERS</b>						
ca	<i>Calamagrostis acutiflora</i>	Karl Foerster Reed Grass	1 gal.	0.75m o.c.		7
ep	<i>Echinacea purpurea</i>	Purple Coneflower	1 gal.	0.5m o.c.		17
gm	<i>Geranium maculatum</i>	Wild Geranium	1 gal.	0.5m o.c.		122
hs	<i>Hemerocallis</i>	'Stella D'Oro'	1 gal.	0.5m o.c.		319
hat	<i>Heuchera</i>	x 'Sweet Hosta	1 gal.	0.75m o.c.		64
hf	<i>Hosta</i>	'First Frost'	1 gal.	0.75m o.c.		115
hh	<i>Hosta</i>	'High Society'	1 gal.	0.5m o.c.		68
is	<i>Iris pumila</i>	'Banbury Ruffles'	1 gal.	0.3m o.c.		42
ss	<i>Sedum spectabile</i>	'Autumn Joy'	1 gal.	0.5m o.c.		150

SEED MIX			
KEY	BOTANICAL NAME	COMMON NAME	%
<b>OCS SIMCOE COUNTY NATIVE</b>			
	<i>Andropogon scoparius</i>	Little Bluestem	15%
	<i>Asclepias syriaca</i>	Common Milkweed	5%
	<i>Aster laevis</i>	Smooth Blue Aster	1%
	<i>Aster novae-angliae</i>	New England Aster	2%
	<i>Elymus canadensis</i>	Canada Wild Rye	20%
	<i>Monarda fistulosa</i>	Wild Bergamot	1%
	<i>Rudbeckia hirta</i>	Black Eyed Susan	12%
	<i>Solidago canadensis</i>	Canada Goldenrod	4%
	<i>Sorghastrum nutans</i>	Indiangrass	20%
	<i>Sporobolus cryptandrus</i>	Sand Drop Seed	20%

Cover crop to be Annual Rye. Application rate: 25kg/ha

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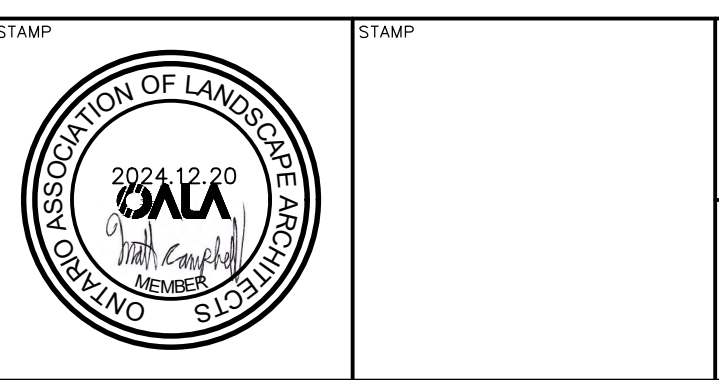
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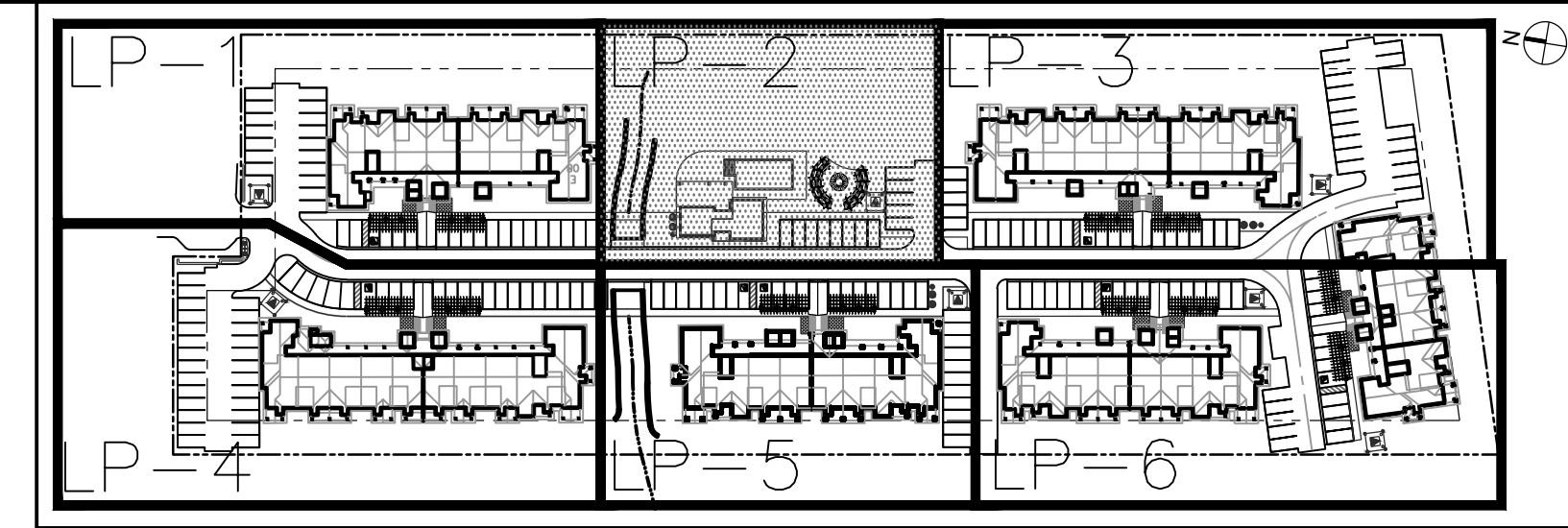


Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD

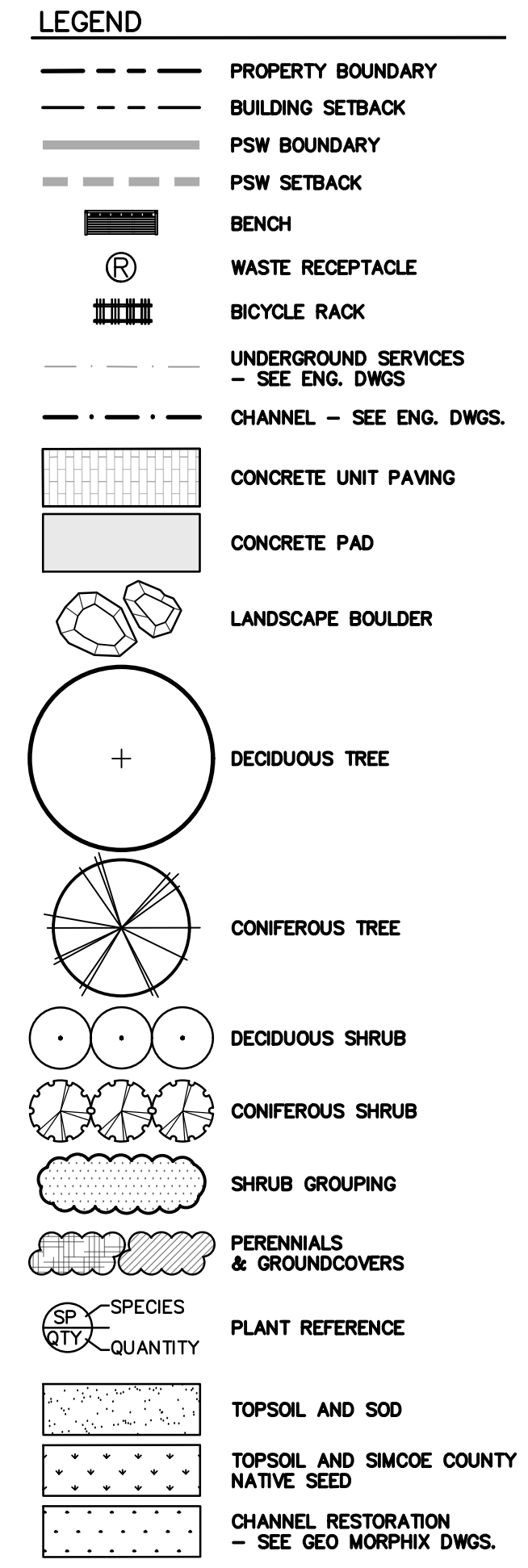
Drawing: LANDSCAPE PLAN

Drawn By: K.W. / A.M./L.M. Design By: K.W. / M.H. Project: 1535-4897

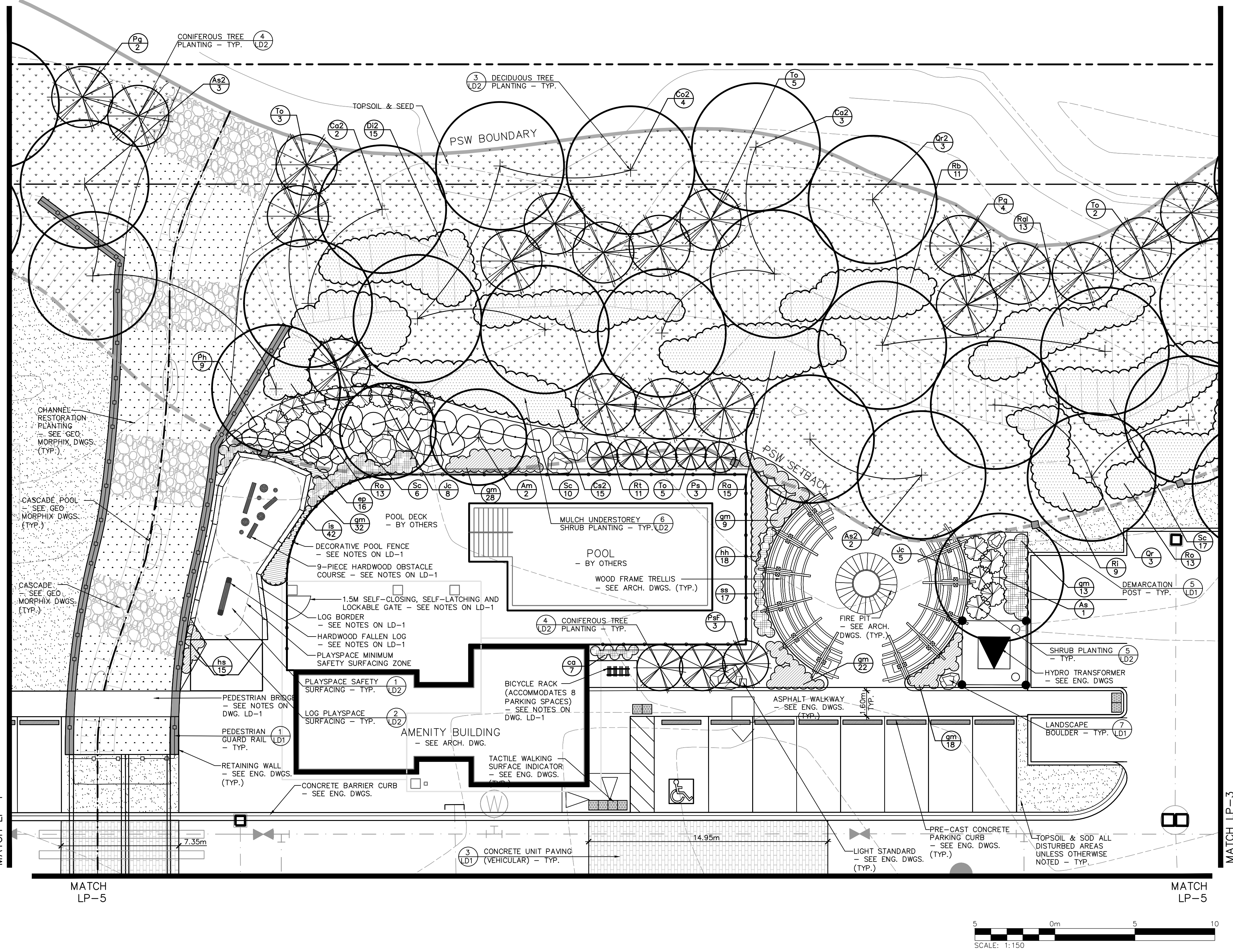
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SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD



- NOTES:**
1. FOR PLANT IDENTIFICATION, REFER TO THE PLANT LIST ON DRAWING LP-1
  2. FOR TREE CLEARANCES, REFER TO NOTES ON DRAWING LP-1
  3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-2
  4. FOR SEEDING MIX, REFER TO DRAWING LP-1



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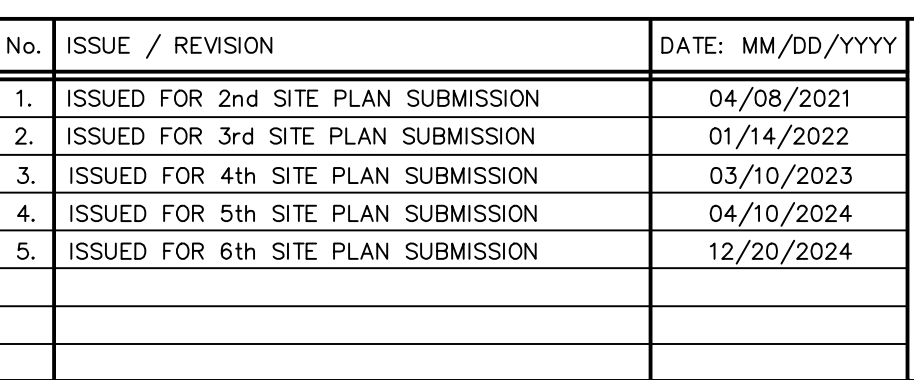
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Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

Drawn By: K.W. / A.M./L.M. Design By: K.W. / M.H. Project: 1535-4897

Check By: K.W. Scale: 1:150 Drawing: LP-2

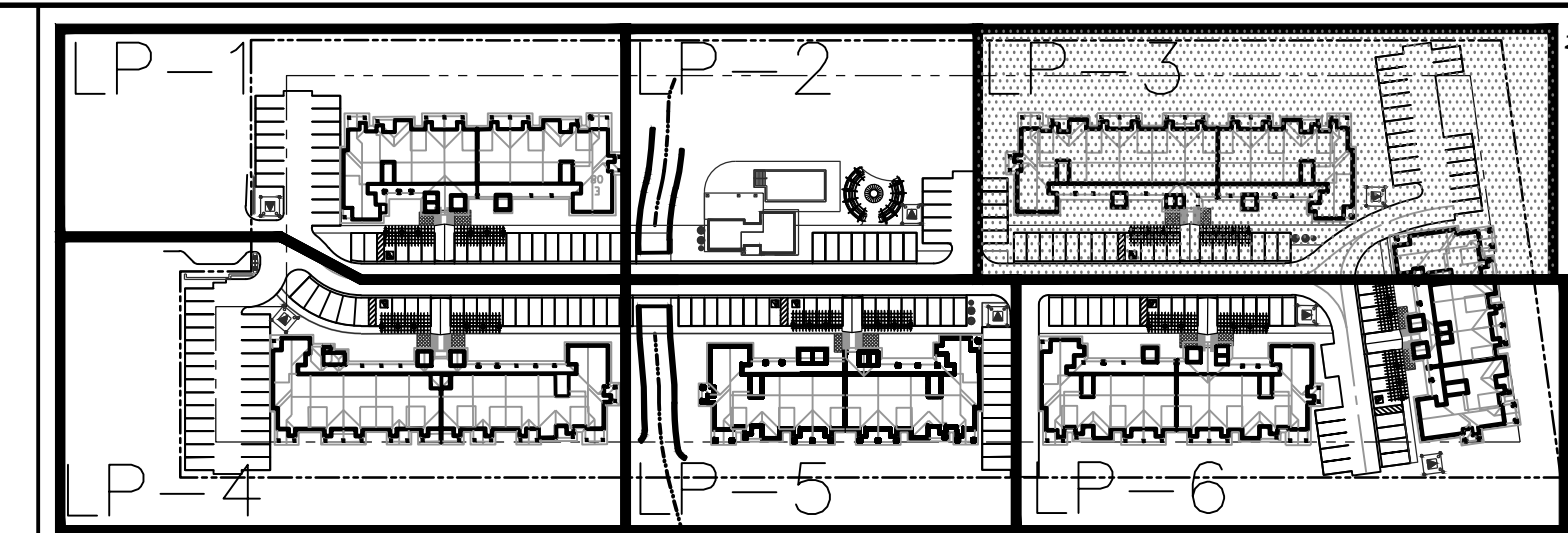
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CONSULTING ENGINEERS

**LEGEND**

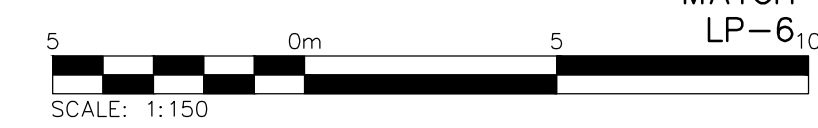
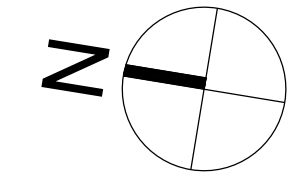
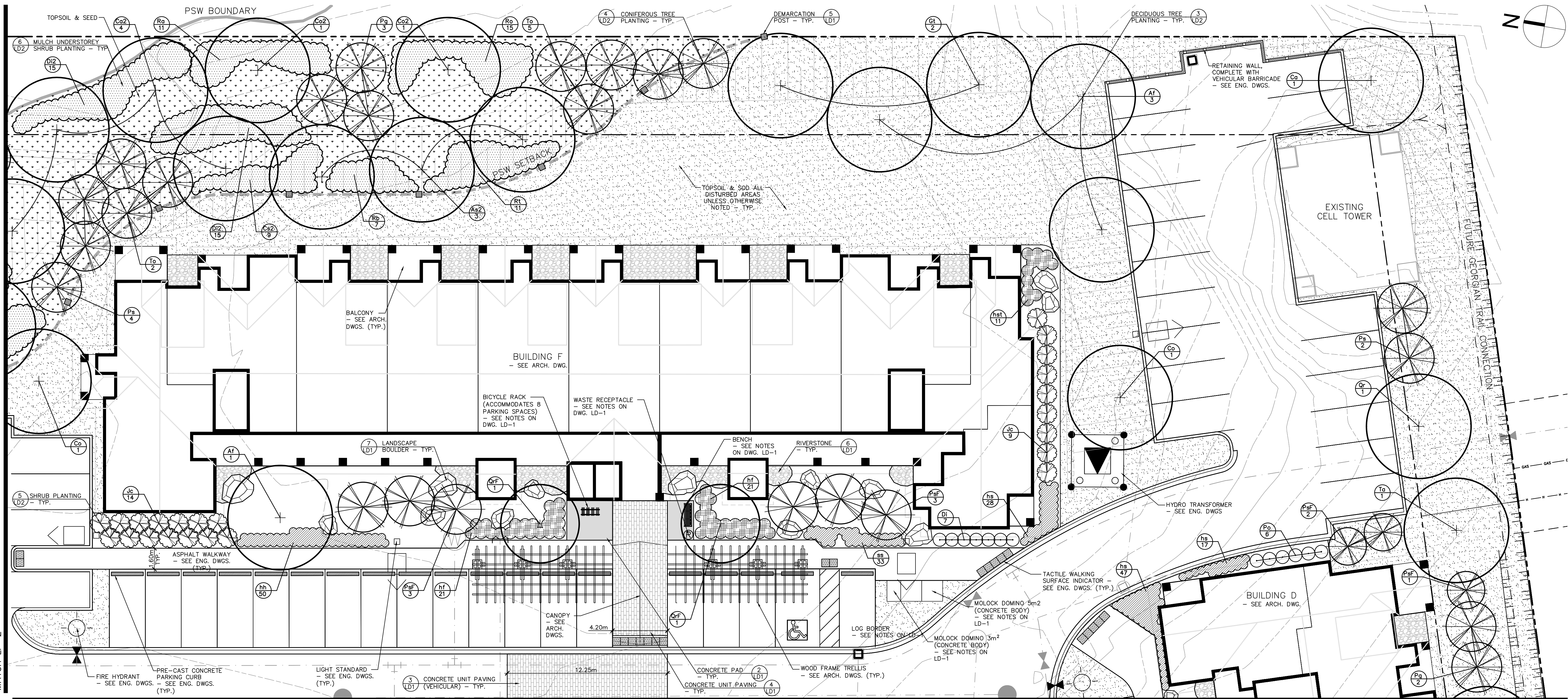
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	PSW SETBACK		LANDSCAPE BOULDER		CONIFEROUS TREE		PLANT REFERENCE
	BENCH				CONIFEROUS TREE		TOPSOIL AND SOD
	WASTE RECEPTACLE				CONIFEROUS TREE		TOPSOIL AND SIMCOE COUNTY NATIVE SEED
	BICYCLE RACK				CONIFEROUS TREE		
	UNDERGROUND SERVICES - SEE ENG. DWGS						

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3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-2
4. FOR SEEDING MIX, REFER TO DRAWING LP-1



SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD



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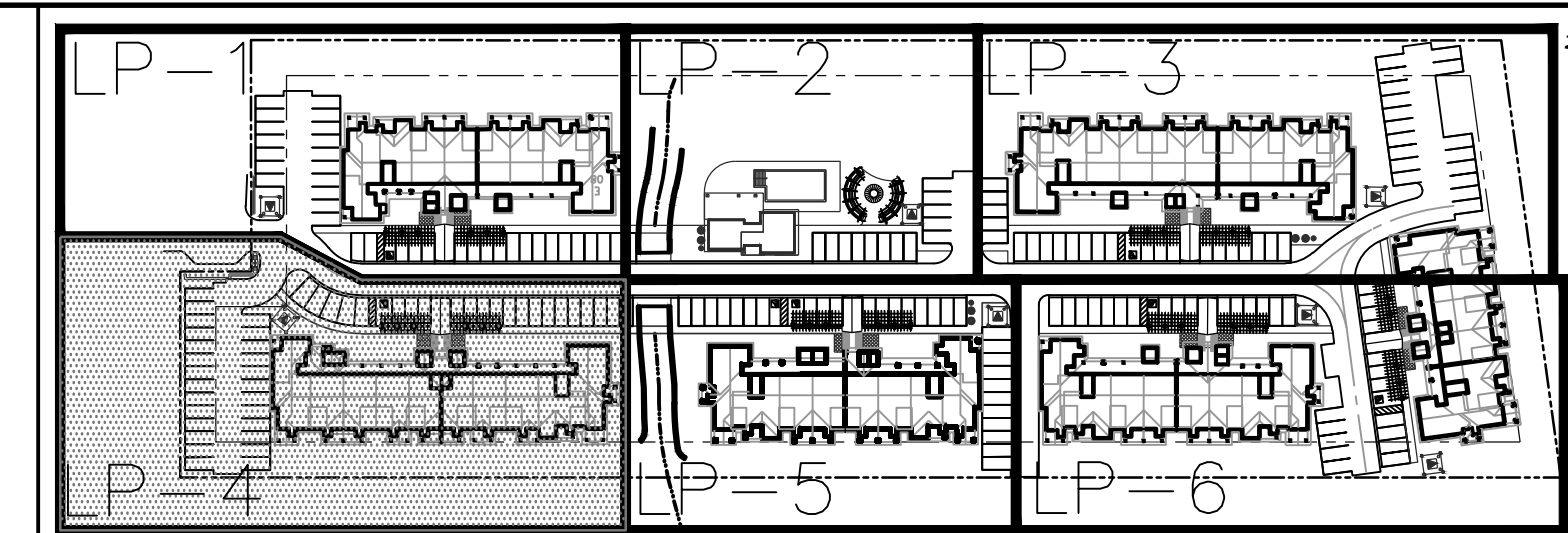
Project: WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

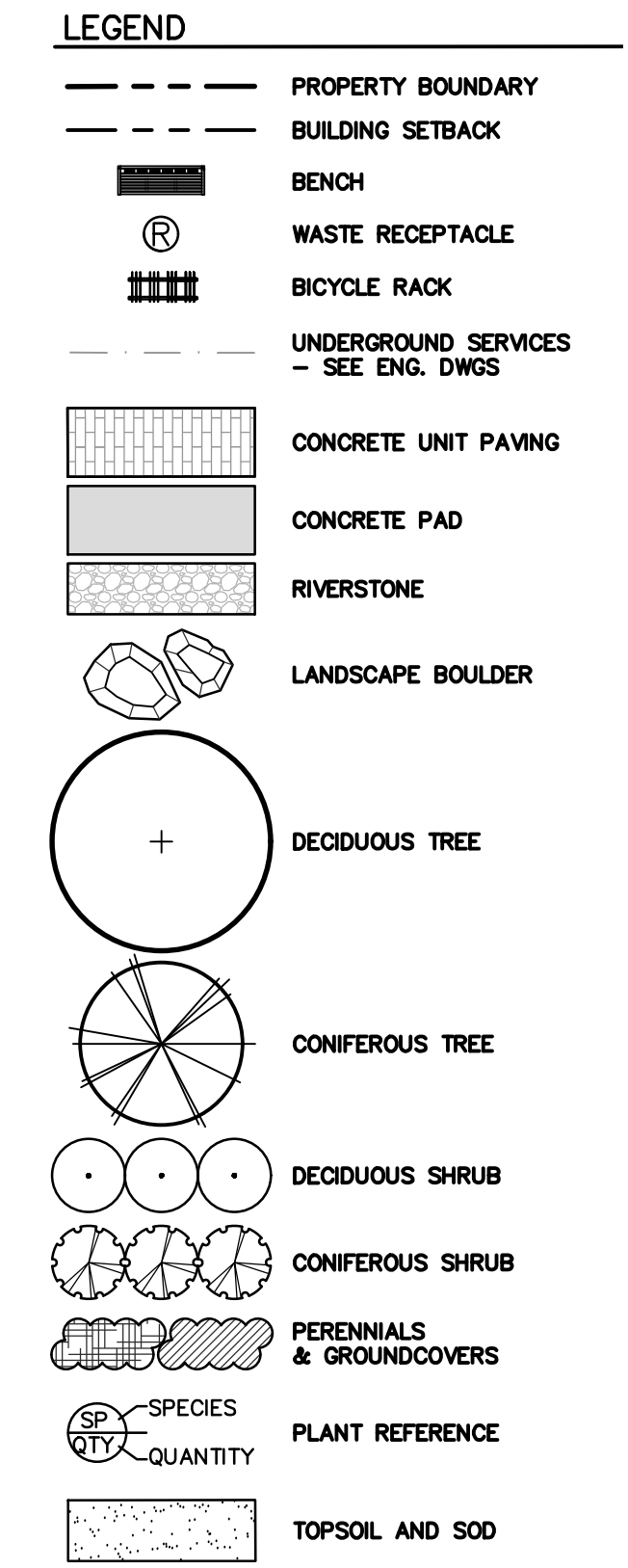
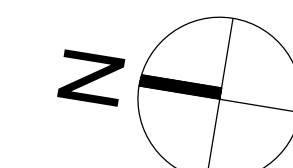
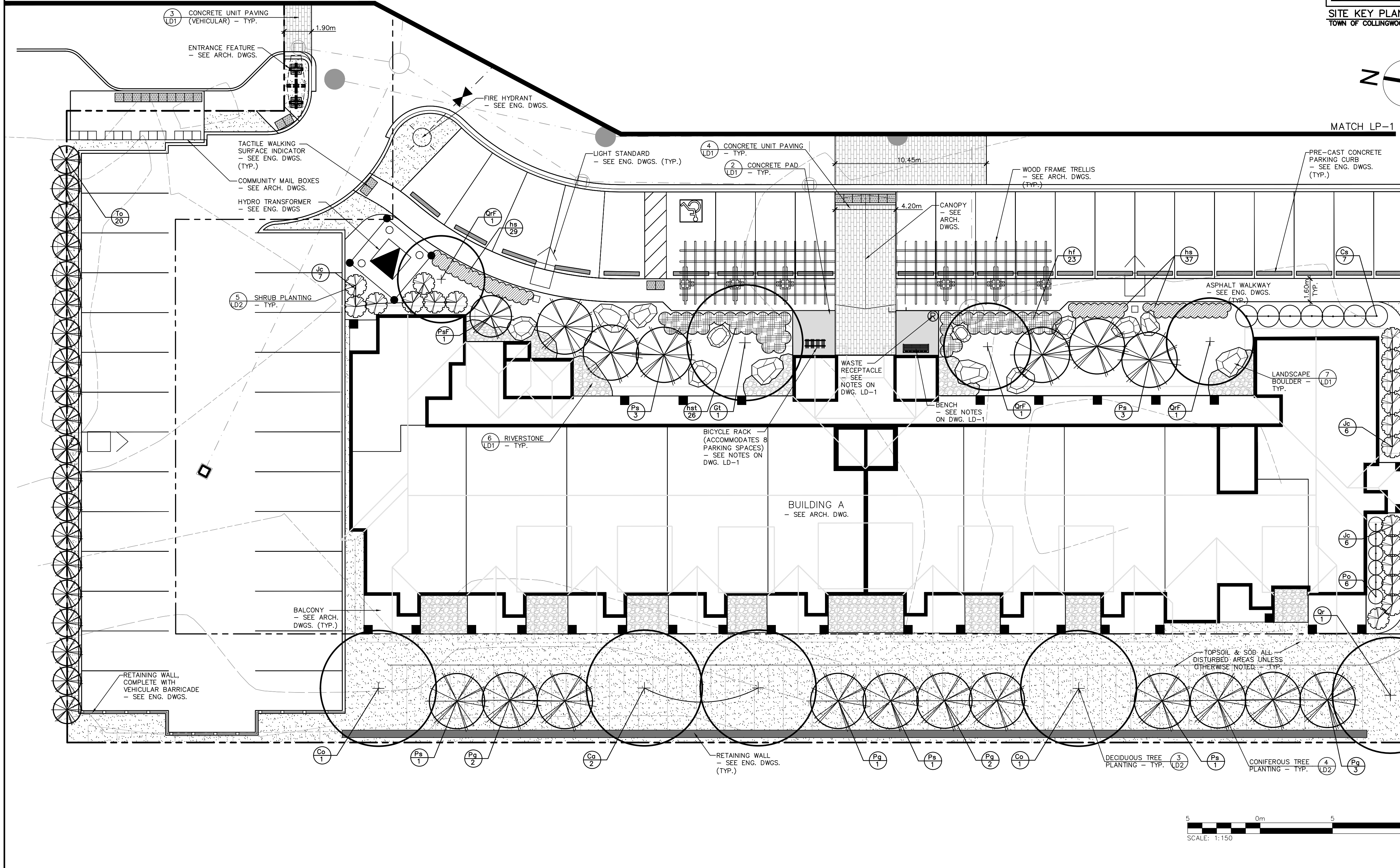


Drawn By: K.W. / A.M./L.M. Design By: K.W. / M.H. Project: 1535-4897  
Check By: K.W. Check By: Scale: 1:150 Drawing: LP-3

MATCH LP-1



SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD



- NOTES:**
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  2. FOR TREE CLEARANCES, REFER TO NOTES ON DRAWING LP-1
  3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-2



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Town	
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Project

WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD

Drawing

LANDSCAPE PLAN

Project

WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD

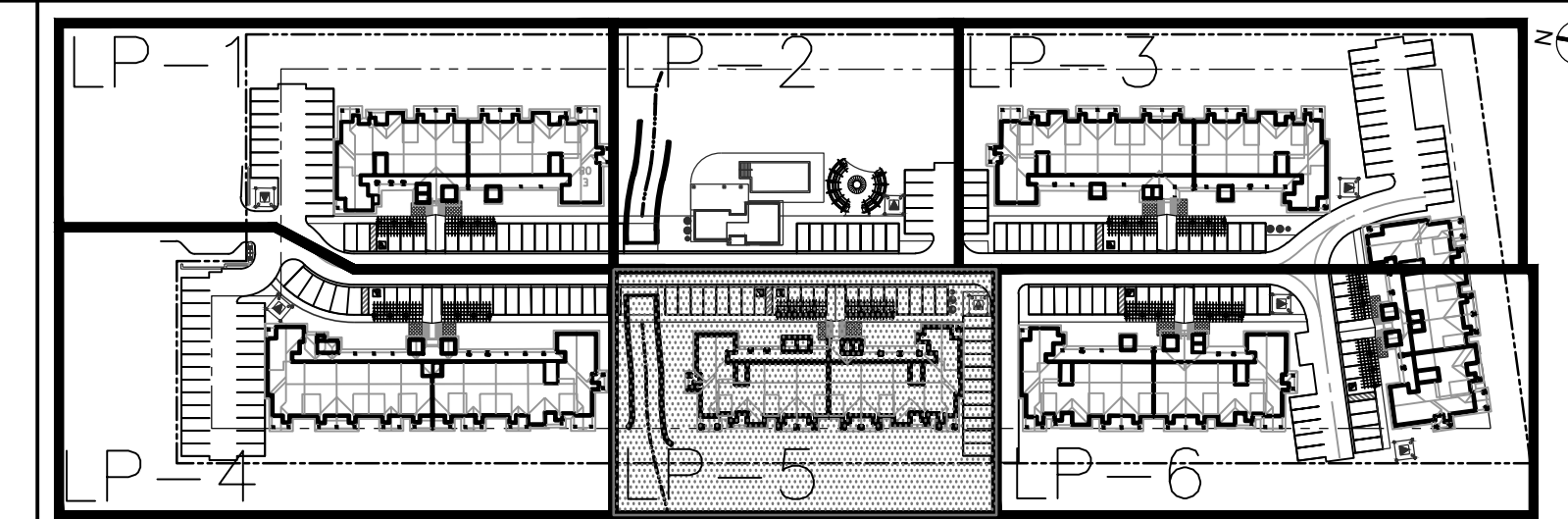
Drawing

LANDSCAPE PLAN

**CROZIER**  
CONSULTING ENGINEERS

Drawn By: K.W. / A.M./L.M. Design By: K.W. / M.H. Project: 1535-4897

Check By: K.W. Check By: Scale: 1:150 Drawing: LP-4



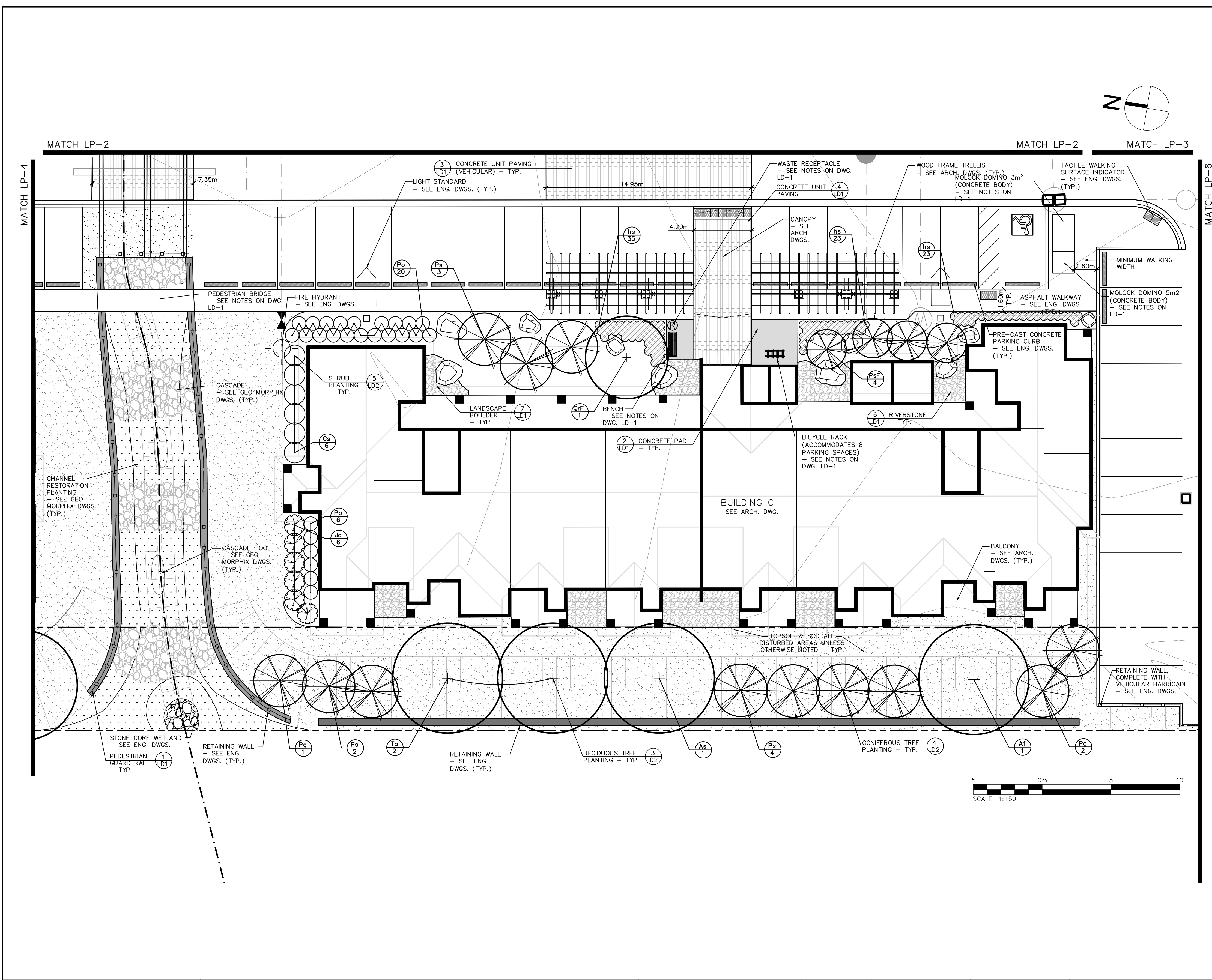
SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD

LEGEND

- PROPERTY BOUNDARY
- BUILDING SETBACK
- BENCH
- WASTE RECEPTACLE
- BICYCLE RACK
- UNDERGROUND SERVICES - SEE ENG. DWGS.
- CHANNEL - SEE ENG. DWGS.
- CONCRETE UNIT PAVING
- CONCRETE PAD
- RIVERSTONE
- LANDSCAPE BOULDER
- DECIDUOUS TREE
- CONIFEROUS TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- PERENNIALS & GROUNDCOVERS
- SPECIES PLANT REFERENCE
- QUANTITY
- TOPSOIL AND SOD
- CHANNEL RESTORATION - SEE GEO MORPHIX DWGS.

NOTES:

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2. FOR TREE CLEARANCES, REFER TO NOTES ON DRAWING LP-1
3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-2



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STAMP	STAMP

Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD

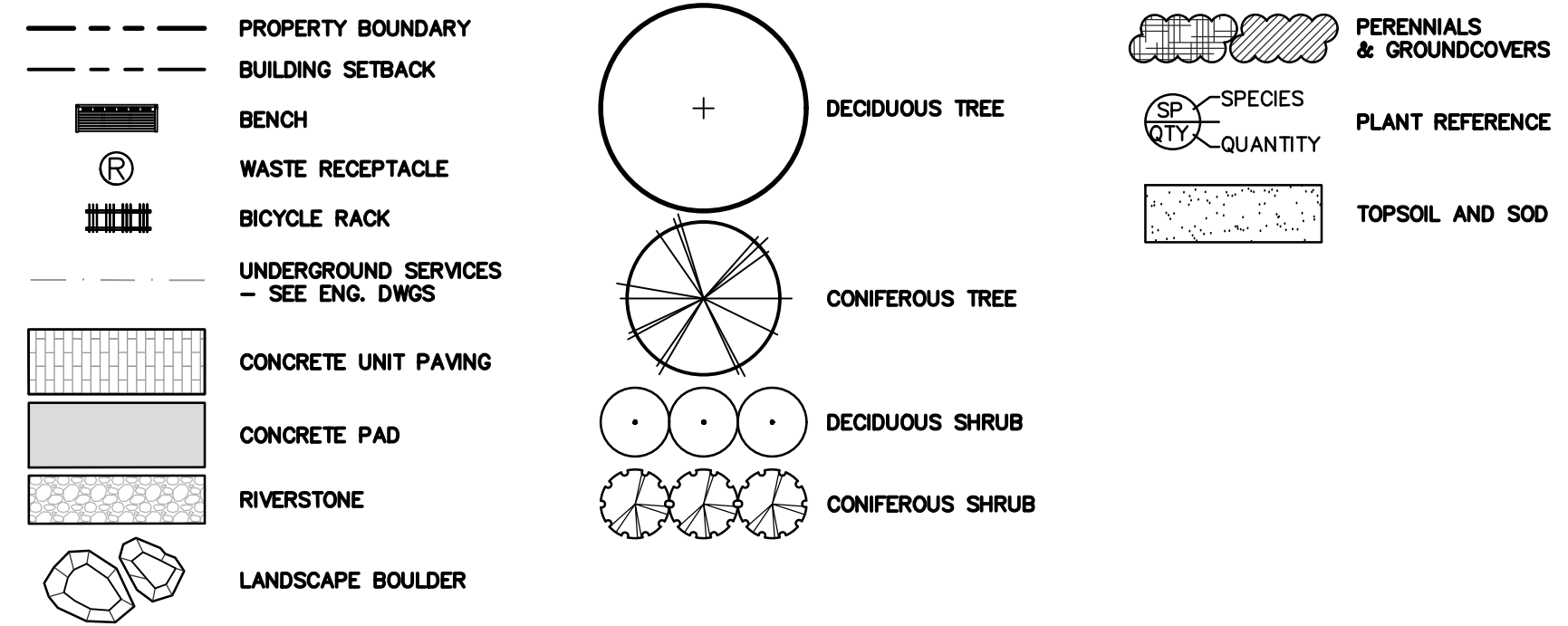
Drawing: LANDSCAPE PLAN

**CROZIER**  
CONSULTING ENGINEERS

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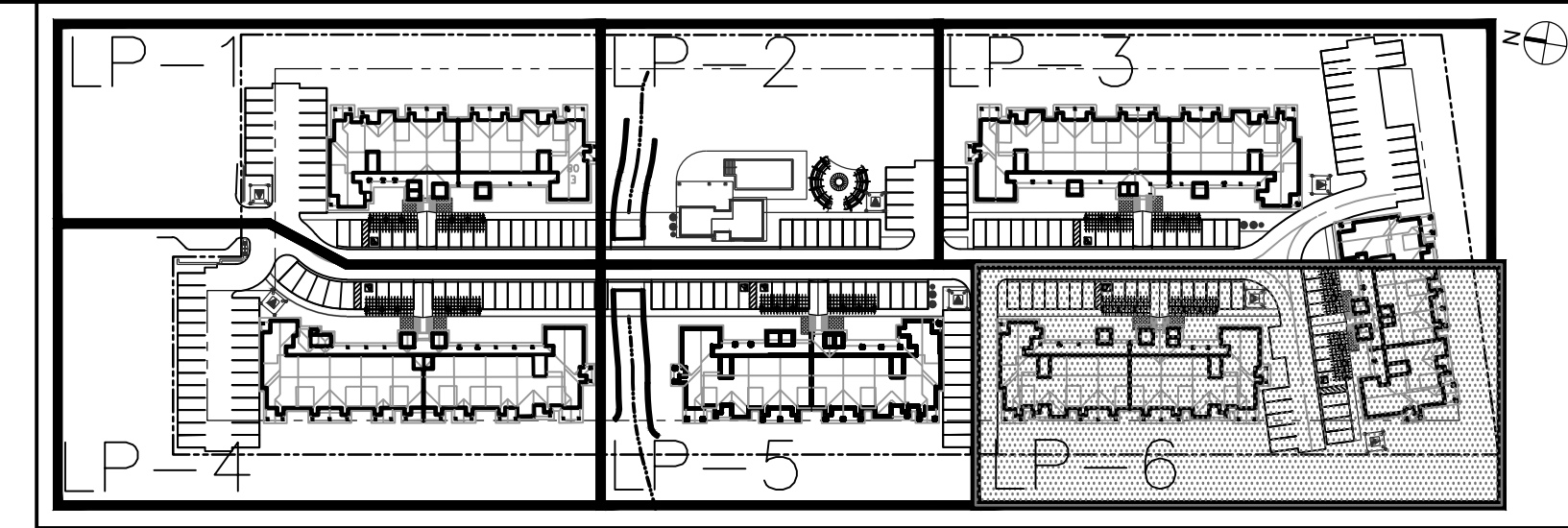
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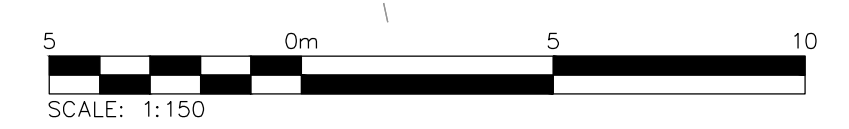
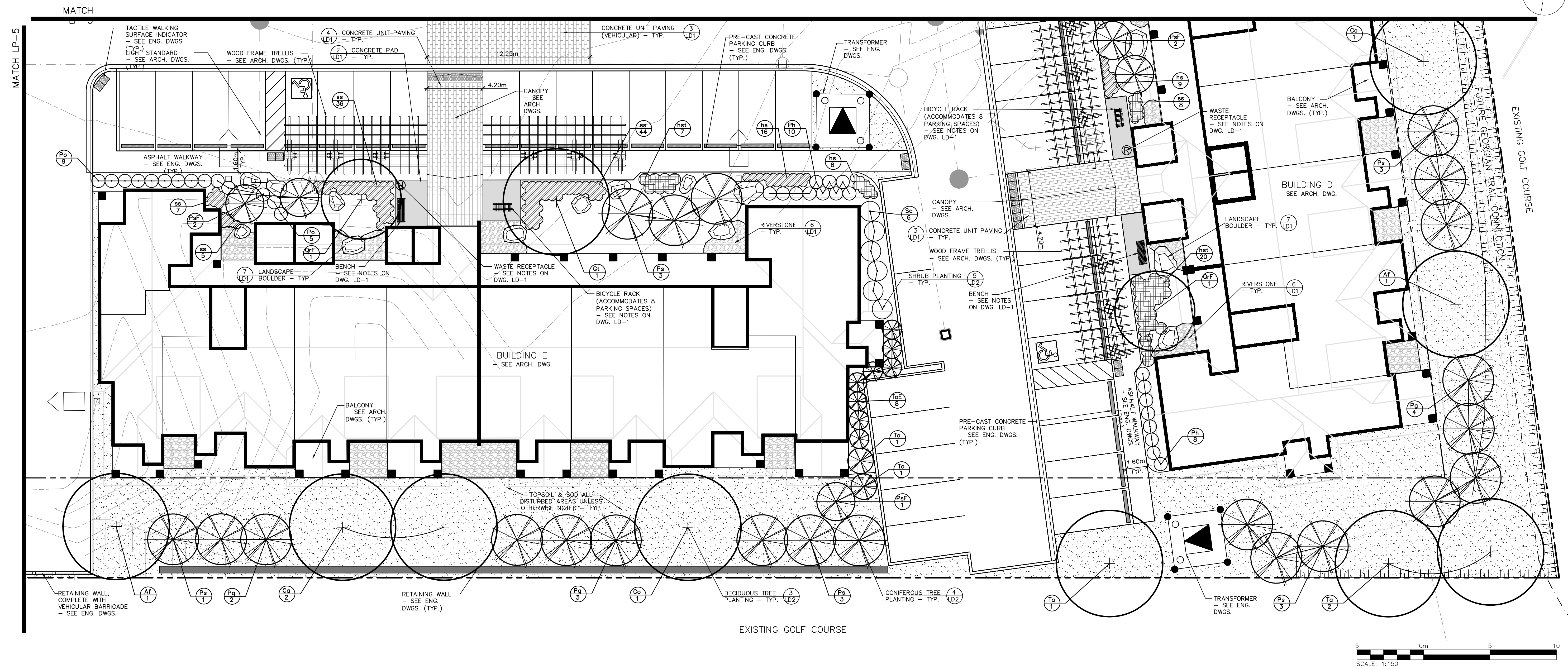
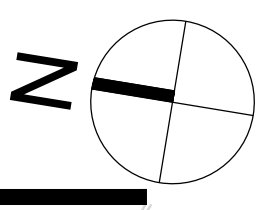


**NOTES:**

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3. FOR GENERAL PLANTING NOTES, REFER TO NOTES ON DRAWING LD-2



SITE KEY PLAN (NTS)  
TOWN OF COLLINGWOOD



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Town

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4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

DATE: MM/DD/YYYY



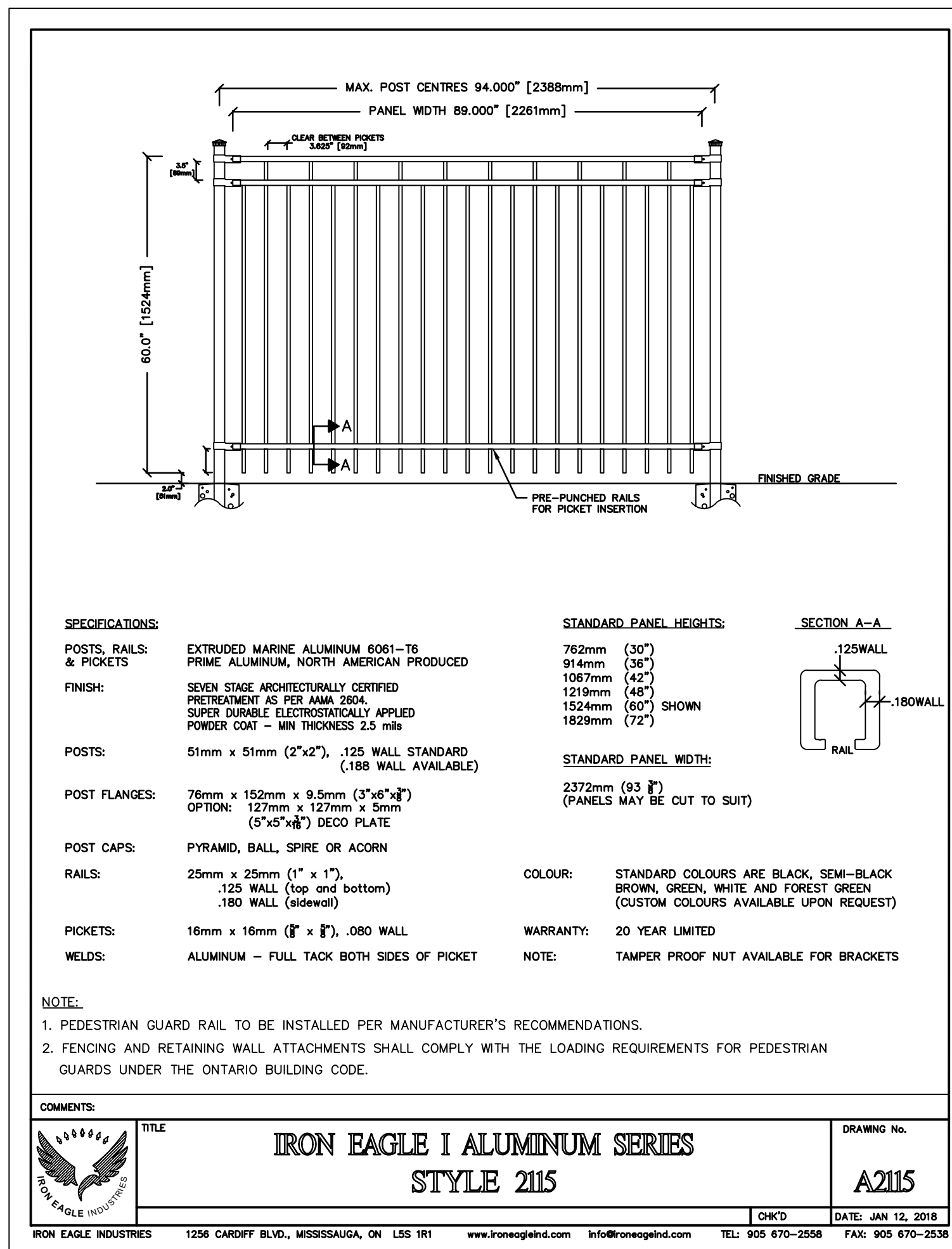
Project

WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD

Drawing

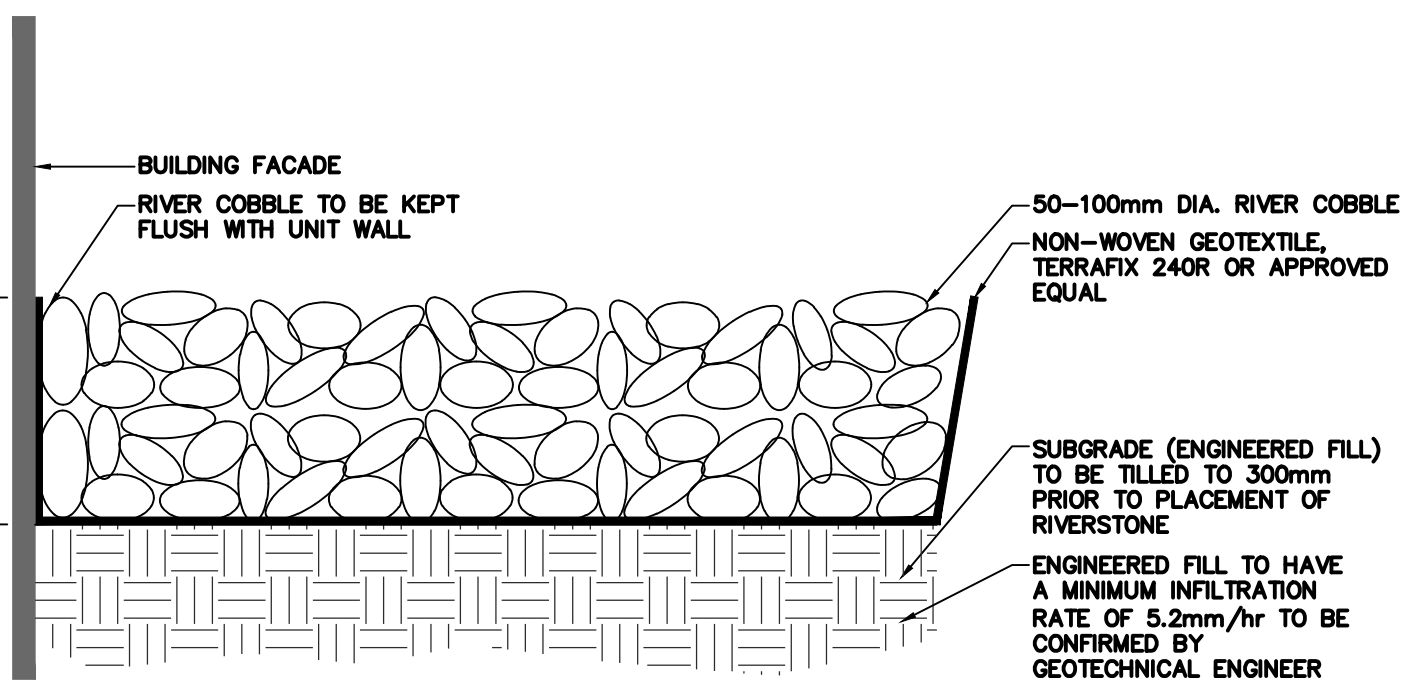
LANDSCAPE PLAN

Drawn By: K.W. / A.M./L.M. Design By: K.W. / M.H. Project: 1535-4897  
Check By: K.W. Check By: Scale: 1:150 Drawing: LP-6



1 LD1 PEDESTRIAN GUARD RAIL

NTS

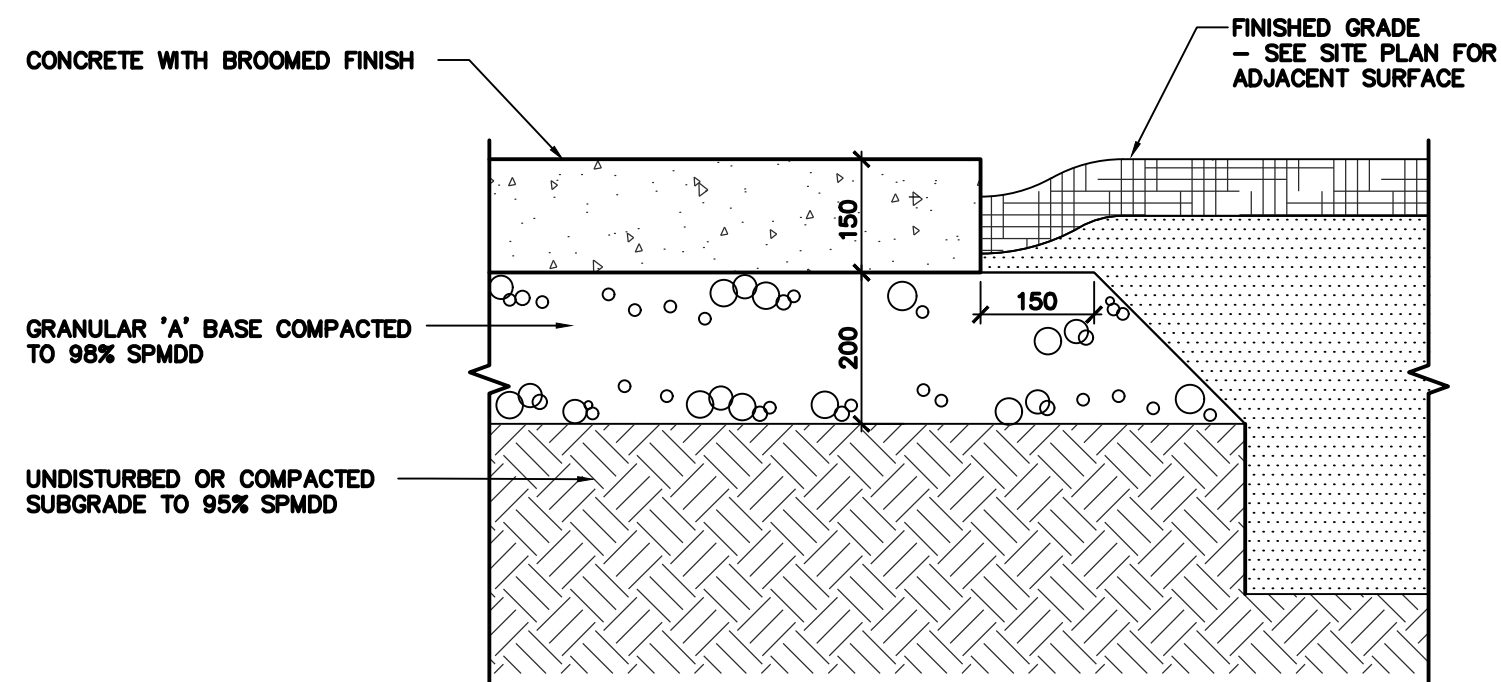


6 LD1 RIVERSTONE

1:10

**NOTES:**

1. CONCRETE PAD SHALL BE IN ACCORDANCE WITH OPSS.MUNI 351 AND MANUFACTURER'S SPECIFICATIONS.

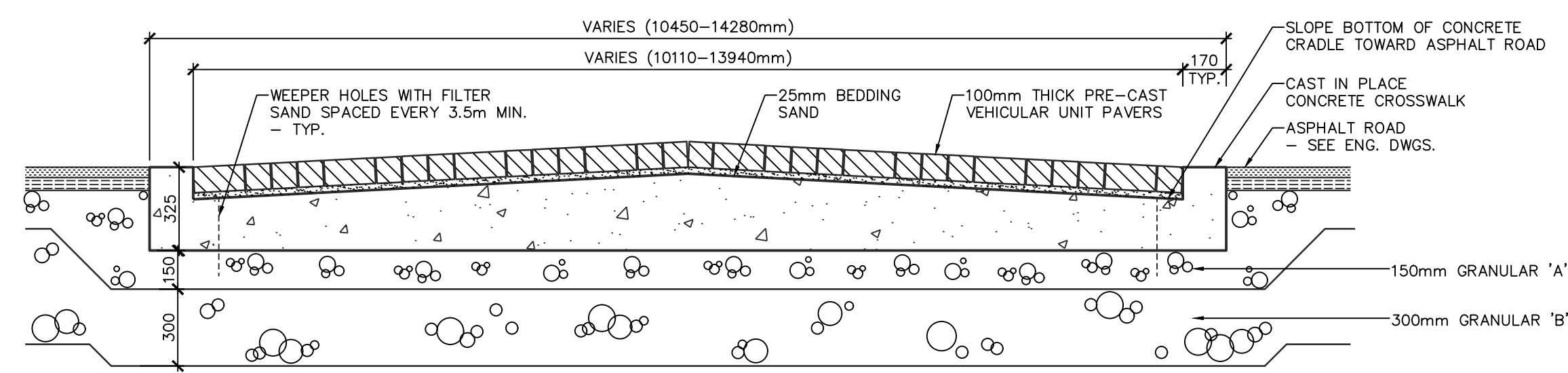


2 LD1 CONCRETE PAD

1:10

**NOTES:**

1. SUBGRADE TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% SPMD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED PRIOR TO PLACING GRANULAR 'B' LAYER.
2. GRANULAR 'A' AND 'B' ROAD BASE TO BE COMPACTED TO 100% OF THE MATERIALS RESPECTIVE SPMD AND PLACED IN MAXIMUM 150mm LIFTS. REFER TO GEOTECHNICAL REPORT FOR FURTHER DETAILS.
3. ALL GRANULARS AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 314.
4. CONCRETE UNIT PAVING SHALL BE IN ACCORDANCE WITH OPSS.MUNI 355 AND MANUFACTURER'S SPECIFICATIONS.
5. CONCRETE UNIT PAVING SHALL BE SPECIFIED BY OWNER.
6. ALL GRADING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEERING DRAWINGS.

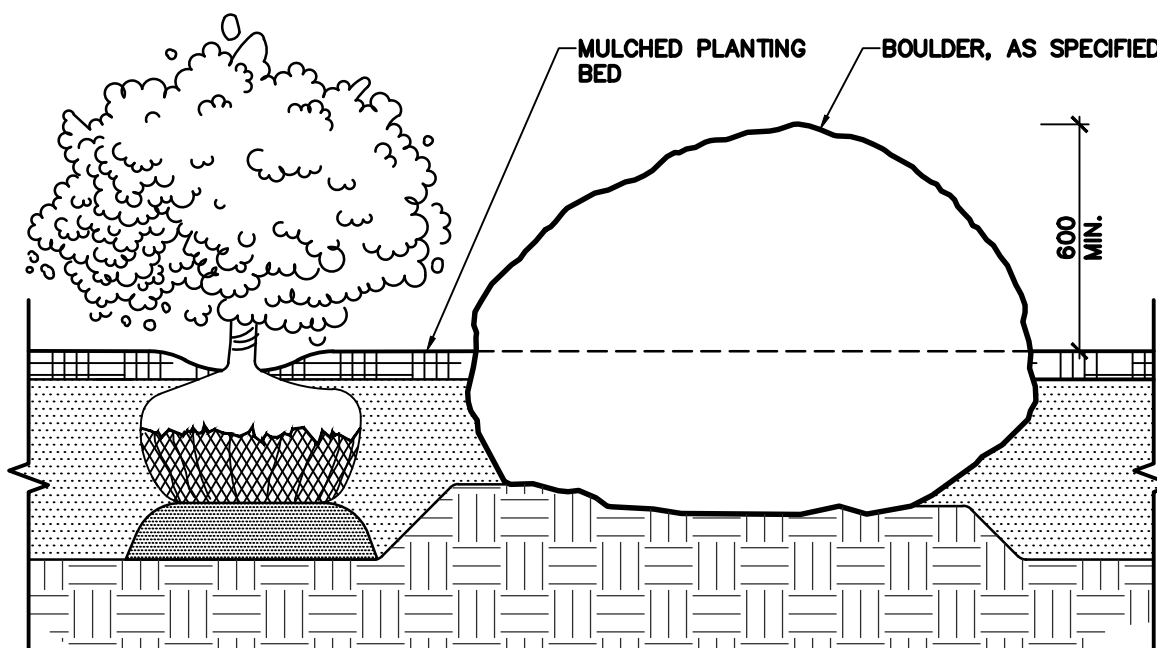


3 LD1 CONCRETE UNIT PAVING - VEHICULAR

1:20

**NOTES:**

1. BOULDER SHALL BE ROUNDED CAP LIMESTONE ROCKERY, SUPPLIED BY MAXWELL'S LANDSCAPE & MASONRY SUPPLY (705.445.0111) OR APPROVED EQUAL.
2. BOULDER SIZE SHALL BE IN ACCORDANCE TO SCALE DEPICTED ON LANDSCAPE PLANS.
3. STONE TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

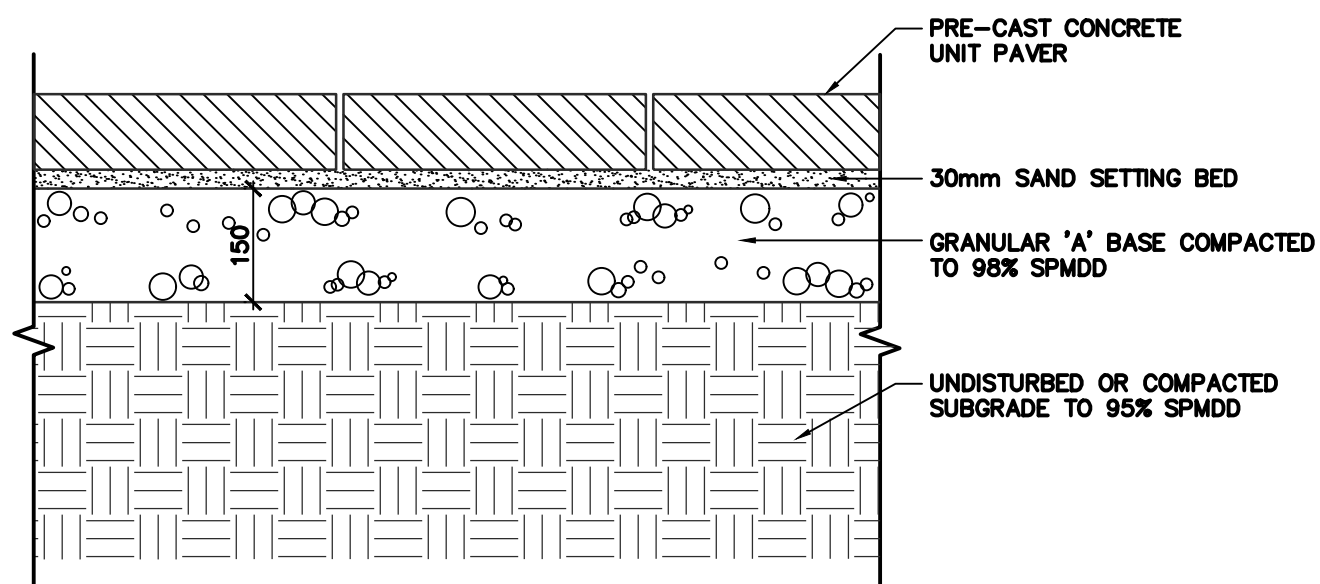


7 LD1 LANDSCAPE BOULDER

1:20

**NOTES:**

1. CONCRETE UNIT PAVING SHALL BE IN ACCORDANCE WITH OPSS.MUNI 355 AND MANUFACTURER'S SPECIFICATIONS.
2. CONCRETE UNIT PAVING SHALL BE SPECIFIED BY OWNER.

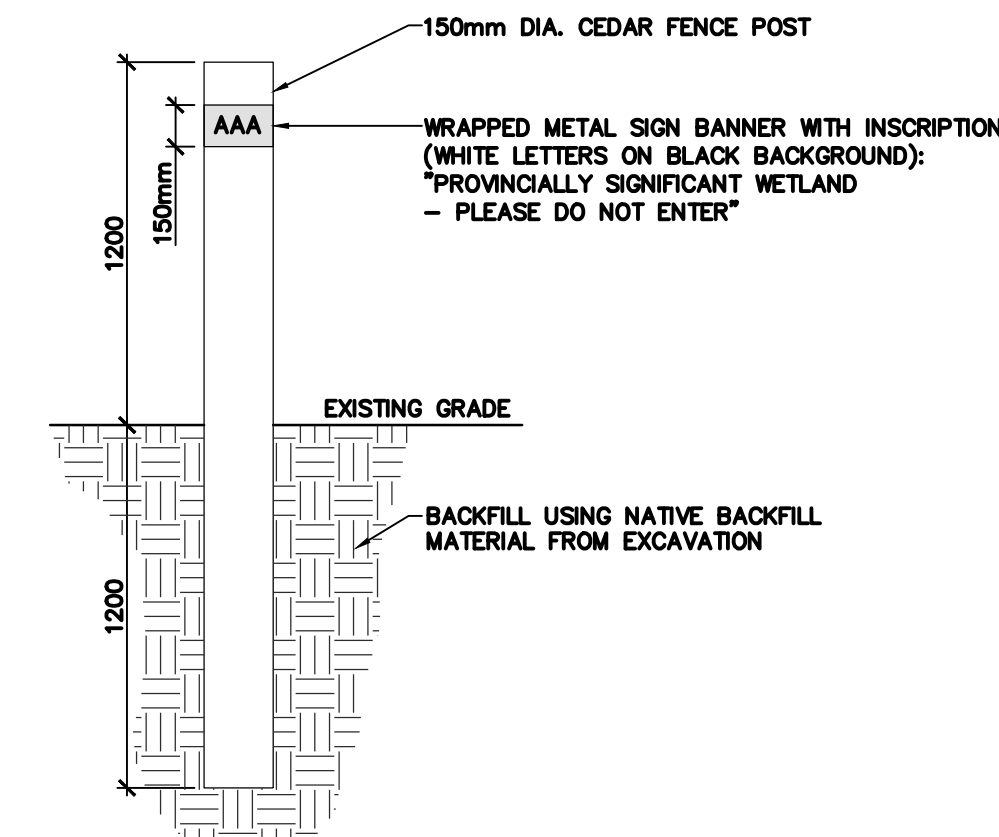


4 LD1 CONCRETE UNIT PAVING

1:10

**NOTES:**

1. ONE SIGN BANNER TO BE LOCATED ON EVERY BOLLARD.
2. SIGN TO FACE INWARDS TOWARDS RESIDENTIAL DEVELOPMENT.
3. DEMARCATION POSTS SHALL BE INSTALLED APPROXIMATELY EVERY 10.0M, SEE LANDSCAPE PLAN FOR LOCATIONS.



5 LD1 DEMARCATION POST

1:25

**GENERAL NOTES:**

- 1.0 PEDESTRIAN BRIDGE**
1. THE PEDESTRIAN BRIDGE SHALL BE SUPPLIED AND INSTALLED BY EAGLE BRIDGE INC., 250 SHIRLEY AVENUE, KITCHENER, ONTARIO, TEL: 519.743.4353.
  2. EAGLE BRIDGE INC. SHALL PROVIDE DETAILED SHOP DRAWINGS FOR THE PEDESTRIAN BRIDGE AND ABUTMENTS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
  3. FORMAL CERTIFICATION OF THE WORKS SHALL BE PROVIDED BY THE ENGINEER RESPONSIBLE FOR THE SEALED SHOP DRAWINGS.
- 2.0 POOL FENCING**
1. POOL FENCING SHALL BE IN ACCORDANCE WITH THE TOWN OF COLLINGWOOD POOL ENCLOSURE REQUIREMENTS BY-LAW NO. 91-42.
  2. POOL FENCING SHALL BE MAJESTIC EAGLE II STYLE, GALVALUME WITH E-COAT, 1524mm TALL, WITH PYRAMID POST CAPS, SUPPLIED BY IRON EAGLE INDUSTRIES INC., 1256 CARDIFF BLVD., MISSISSAUGA, ONTARIO, TEL: 905.670.2558.
  3. PEDESTRIAN GATE TO BE THE SAME STYLE AS THE FENCE AND SHALL BE SELF-CLOSING, SELF-LATCHING AND LOCKABLE.
  4. COLOUR OF FENCE AND GATES TO BE HIGH GLOSS BLACK.
  5. CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
- 3.0 PLAYSACE**
1. PLAY SPACES SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-Z614-20 (CSA) "CHILDREN'S PLAYGROUND EQUIPMENT AND SURFACING", LATEST REVISION.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH PLAY STRUCTURE MANUFACTURER TO ENSURE THE MINIMUM FALL PROTECTION ZONE ARE ACCOMMODATED WITHIN THE SAFETY SURFACING AREA. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONSULTANT.
  3. THE FOLLOWING PLAYGROUND EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY NATURE'S INSTRUMENTS, 233 PARK STREET WEST, DUNDAS, ONTARIO, TEL: 1-877-733-7456.
    - 9-PIECE HARDWOOD OBSTACLE COURSE. MODEL NO.: NI-PG-610-02
    - FOOTING/ATTACHMENTS: INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS
    - HARDWOOD FALLEN LOG. MODEL NO.: NI-PG-603-03
    - FOOTING/ATTACHMENTS: INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS
    - LOG BORDER. MODEL NO.: NI-PG-605-02
    - FOOTING/ATTACHMENTS: INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS
    - BARRIER-FREE LOG BORDER. MODEL NO.: NI-PG-605-08
    - FOOTING/SPECIFICATIONS: INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS
  4. PLAY SPACE SAFETY SURFACING SHALL BE FIBAR SYSTEM 300 SAFETY SURFACE, SUPPLIED AND INSTALLED BY NATURE'S INSTRUMENTS AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.

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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.

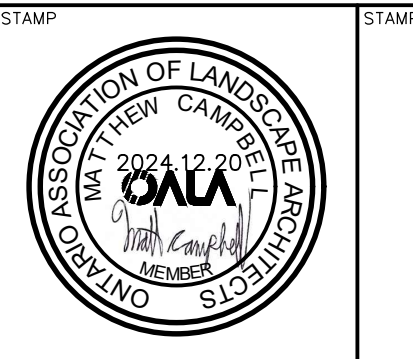
5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

**NOTES:**

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

Town

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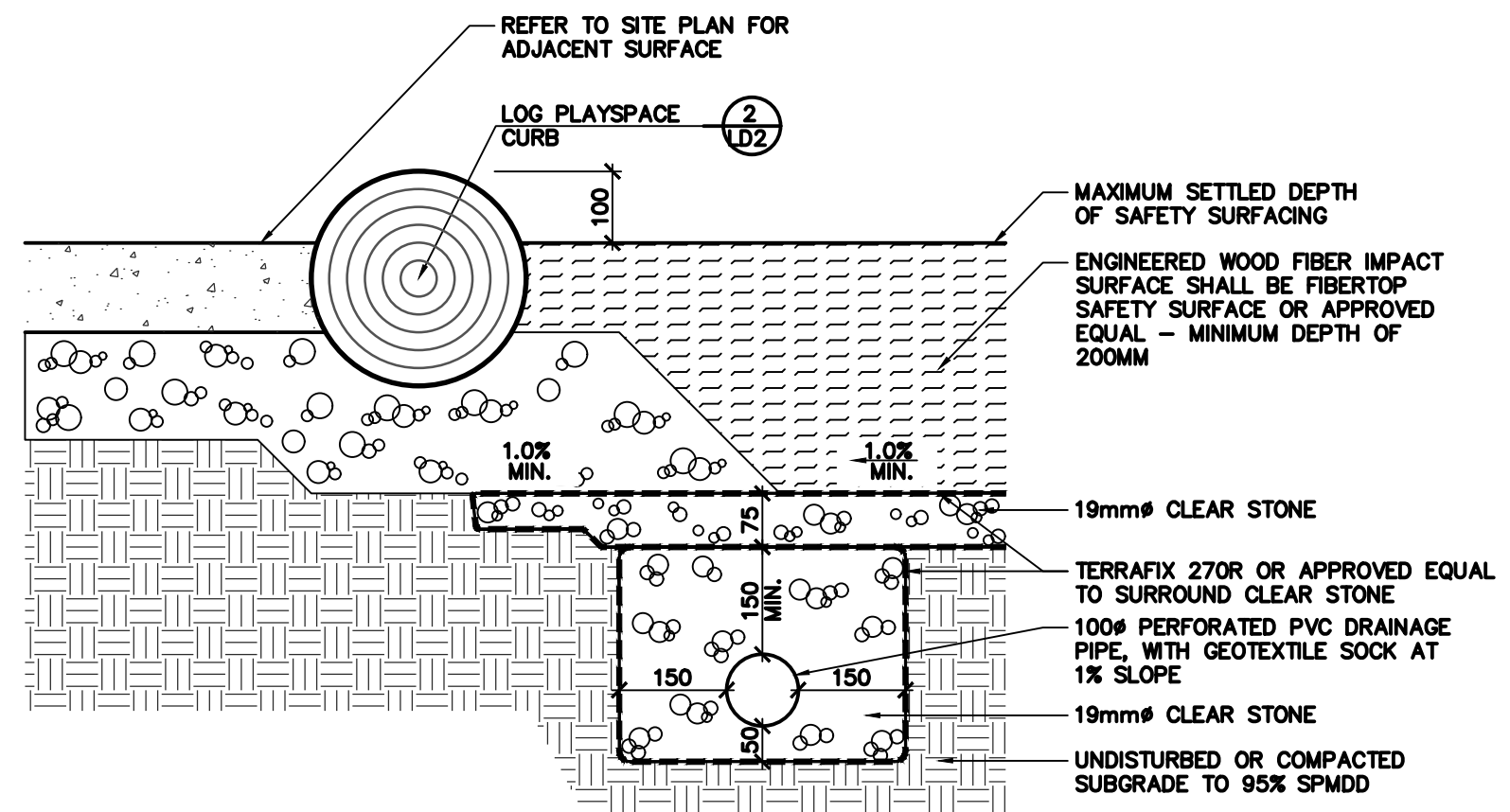
Project: WYLDEWOOD CREEK TOWN OF COLLINGWOOD

Drawing: LANDSCAPE DETAILS

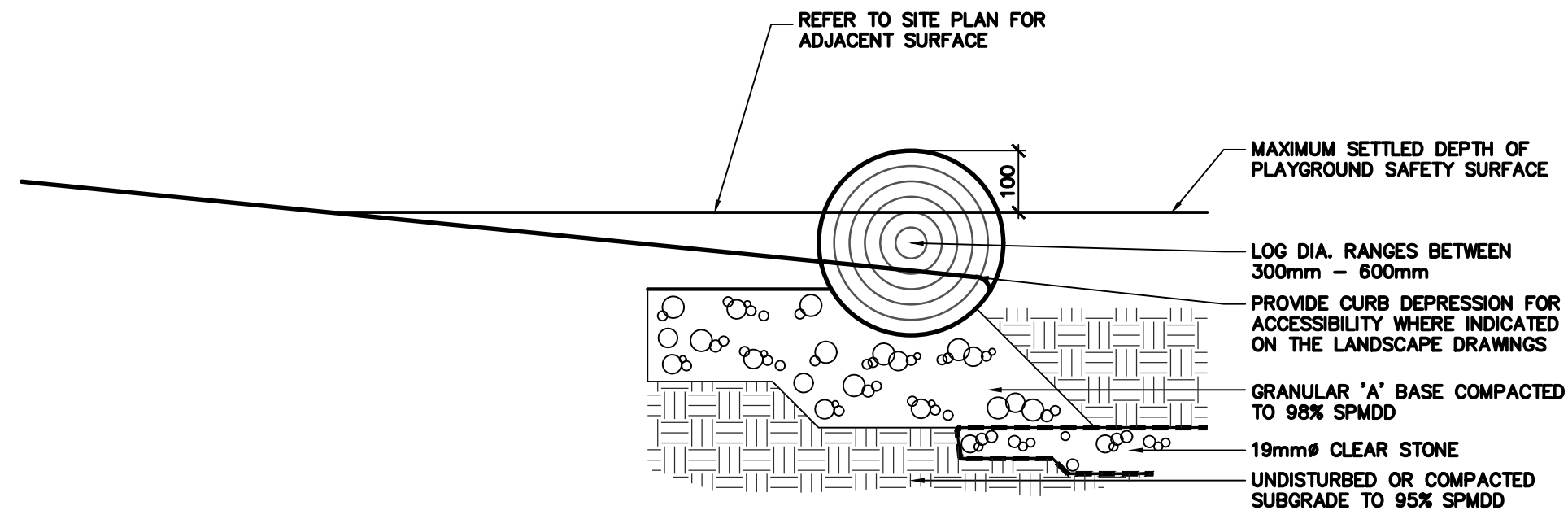
**CROZIER CONSULTING ENGINEERS**

Drawn By: K.W. / A.M. Design By: K.W. Project: 1535-4897

Check By: K.W. Scale: AS SHOWN Drawing: LD-1

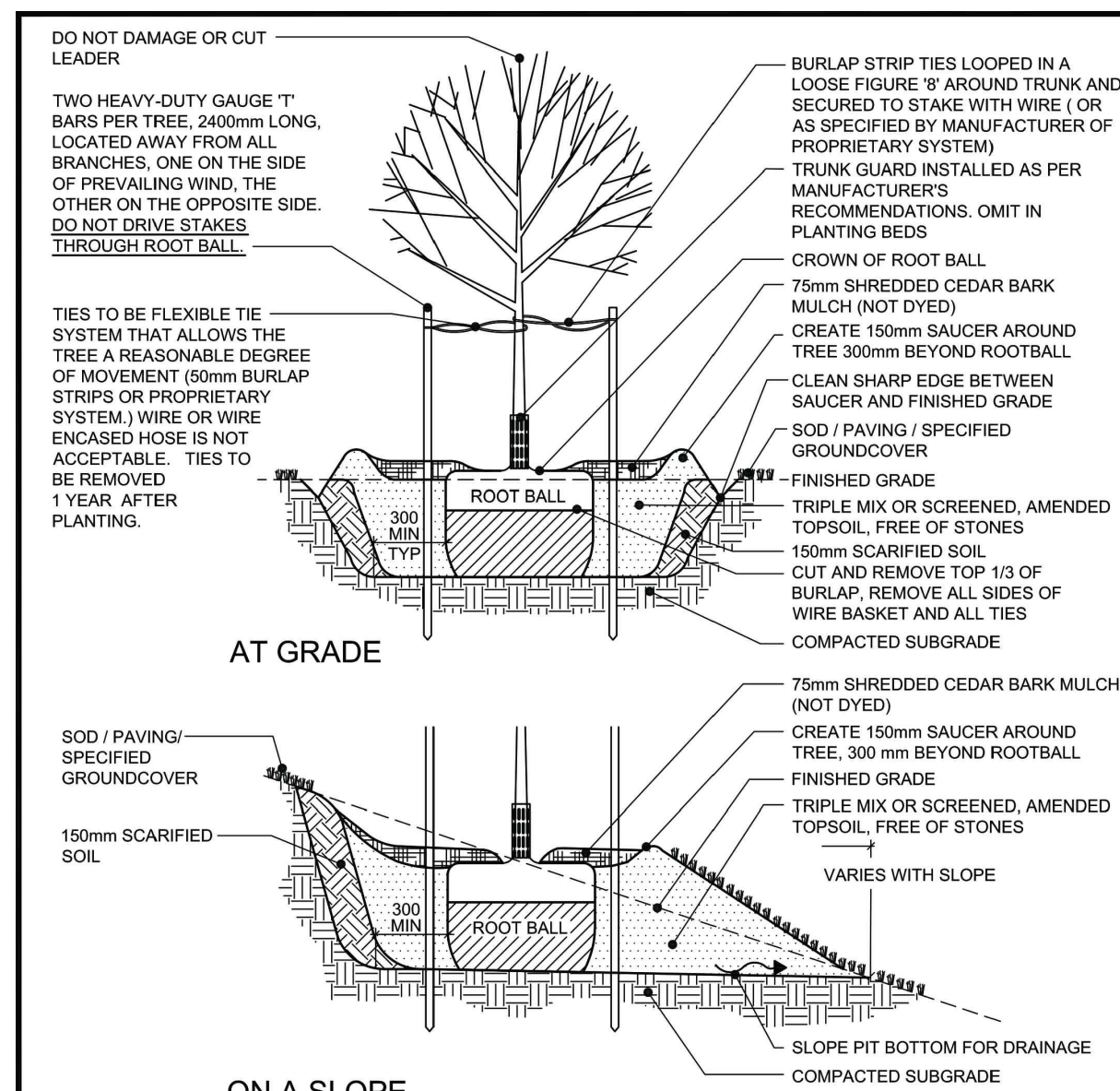


1 LD2 PLAYSPLACE SAFETY SURFACING NTS



2 LD2 LOG PLAYSPLACE CURB NTS

- PLANTING NOTES:**
- ALL WORKMANSHIP TO THE STANDARDS OF THE LANDSCAPE ONTARIO HORTICULTURAL TRADES ASSOCIATION AND THE CANADIAN LANDSCAPE STANDARDS.
  - TREE LOCATIONS SHALL BE STAKED ON SITE BY THE LANDSCAPE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
  - BACKFILL IS TO CONSIST OF SOIL NATIVE TO THE SITE OR GENERAL SOIL TYPE/CLASS NATIVE TO THE SITE. SOIL AMENDMENT MAY BE REQUIRED BASED ON SOURCE OF IMPORTED OR EXISTING SITE QUALITY OF TOPSOIL. PROVIDE NUTRIENT ANALYSIS OF TOPSOIL TO BE USED FOR LANDSCAPE PURPOSES IN ORDER TO DETERMINE SOIL AMENDMENT REQUIREMENTS.
  - REPORT ALL DISCREPANCIES IN WRITING TO THE LANDSCAPE ARCHITECT.
  - CONTRACTOR SHALL MAINTAIN ALL LANDSCAPE AREAS UNTIL OWNER'S ACCEPTANCE OF PROJECT.
  - CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.
  - PLANTING MAY BE ADJUSTED TO SUIT LOCATIONS OF SITE UTILITY STRUCTURES/ SERVICES AND DRIVEWAYS.
  - TREE PITS OR PLANTING BEDS LOCATED WITHIN 1 METER OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.
  - SUBMIT WRITTEN GUARANTEE TO THE EFFECT THAT ALL PLANTS ACCEPTED DURING THE PERIOD OF JANUARY 1st TO JULY 15th SHALL BE GUARANTEED UNTIL JULY 15th THE SECOND FOLLOWING YEAR. PLANTS ACCEPTED DURING THE PERIOD OF JULY 15th TO DECEMBER 31st SHALL BE GUARANTEED FOR TWO YEARS FROM THE DATE OF ACCEPTANCE. THE GUARANTEE PERIOD LISTED ABOVE SHALL APPLY TO ALL "NURSERY GROWN" PLANTS AS PER TOWN OF COLLINGWOOD'S TWO YEAR MAINTENANCE REQUIREMENTS.
  - ALL MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
  - SOD ANY AREAS MARKED WITH NURSERY SOD ON 150mm CLEAN TOPSOIL, FINE GRADE AND SOD ALL BOULEVARD AREAS TO MUNICIPAL SPECIFICATIONS AND REPAIR DAMAGE TO ADJACENT PROPERTIES AS REQUIRED.
  - FINAL INSPECTION AND ACCEPTANCE OF PLANTING WORK SHALL CONSIDER WITH THE FINAL INSPECTION AND ACCEPTANCE OF ALL WORK INCLUDED IN THE CONTRACT.
  - AT THE TIME OF FINAL INSPECTION, ALL PLANTS SHALL BE IN A HEALTHY, VIGOROUS GROWING CONDITION AND PLANTED IN FULL ACCORDANCE WITH DRAWINGS AND CONDITIONS.



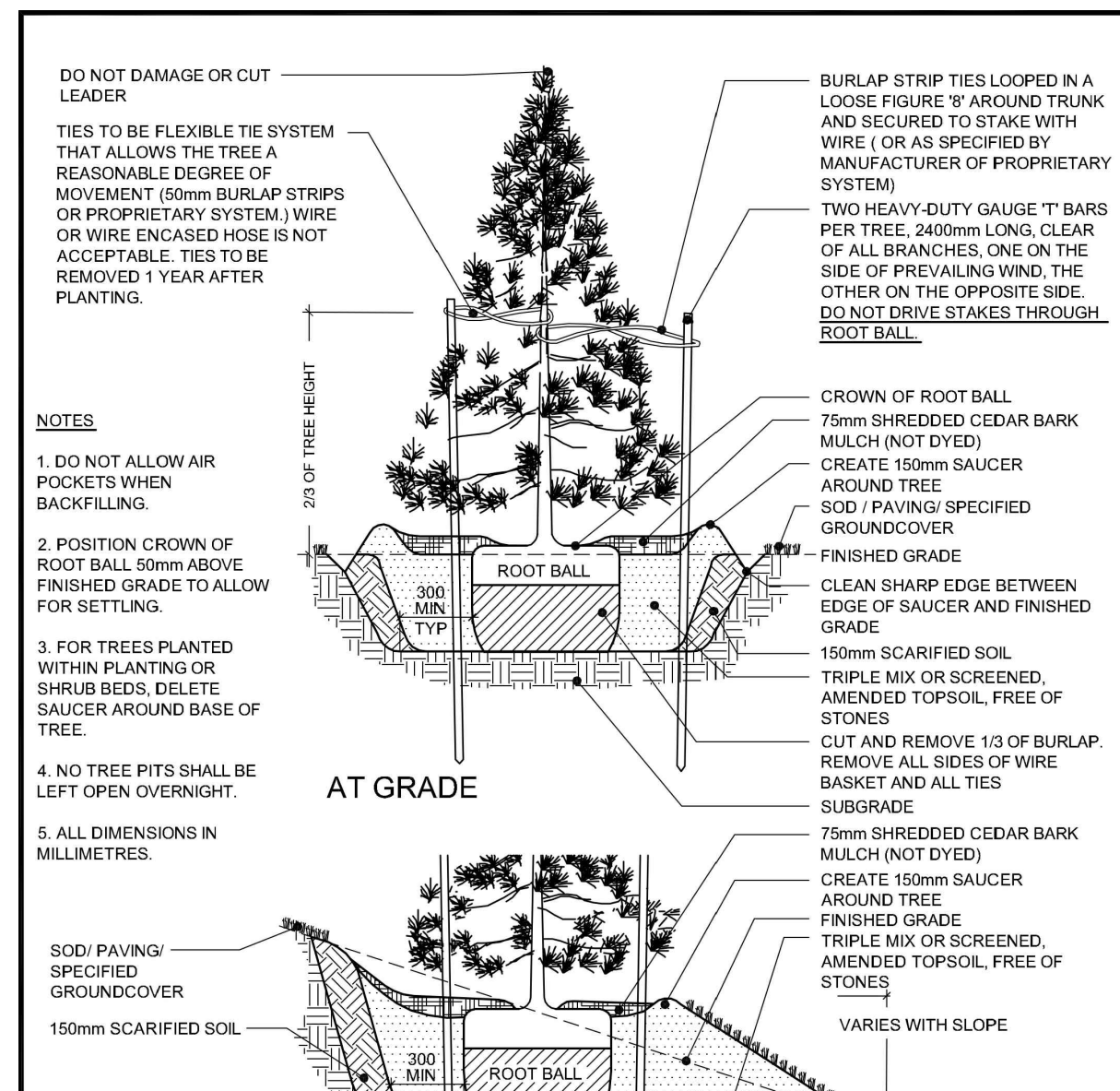
**NOTES:**

- DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
- POSITION CROWN OF ROOT BALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLING.
- DO CORRECTIVE PRUNING TO RETAIN NATURAL FORM OF TREE.
- FOR TREES PLANTED WITHIN PLANTING OR SHRUB BEDS, DELETE SAUCER AROUND BASE OF TREE.
- NO TREE PITS SHALL BE LEFT OPEN OVERNIGHT.
- ALL DIMENSIONS ARE IN MILLIMETRES.

NO.	REVISION	APPRD	DATE
1	PLANTING METHODOLOGY	EN	JUL04
2	PLANTING METHODOLOGY	DW	JUN07

TOWN OF COLLINGWOOD  
DECIDUOUS TREE PLANTING  
APPRD: DW DATE: JAN03  
DRAWN: AB SCALE: NTS  
STD. No. 1101

3 LD2 DECIDUOUS TREE PLANTING NTS



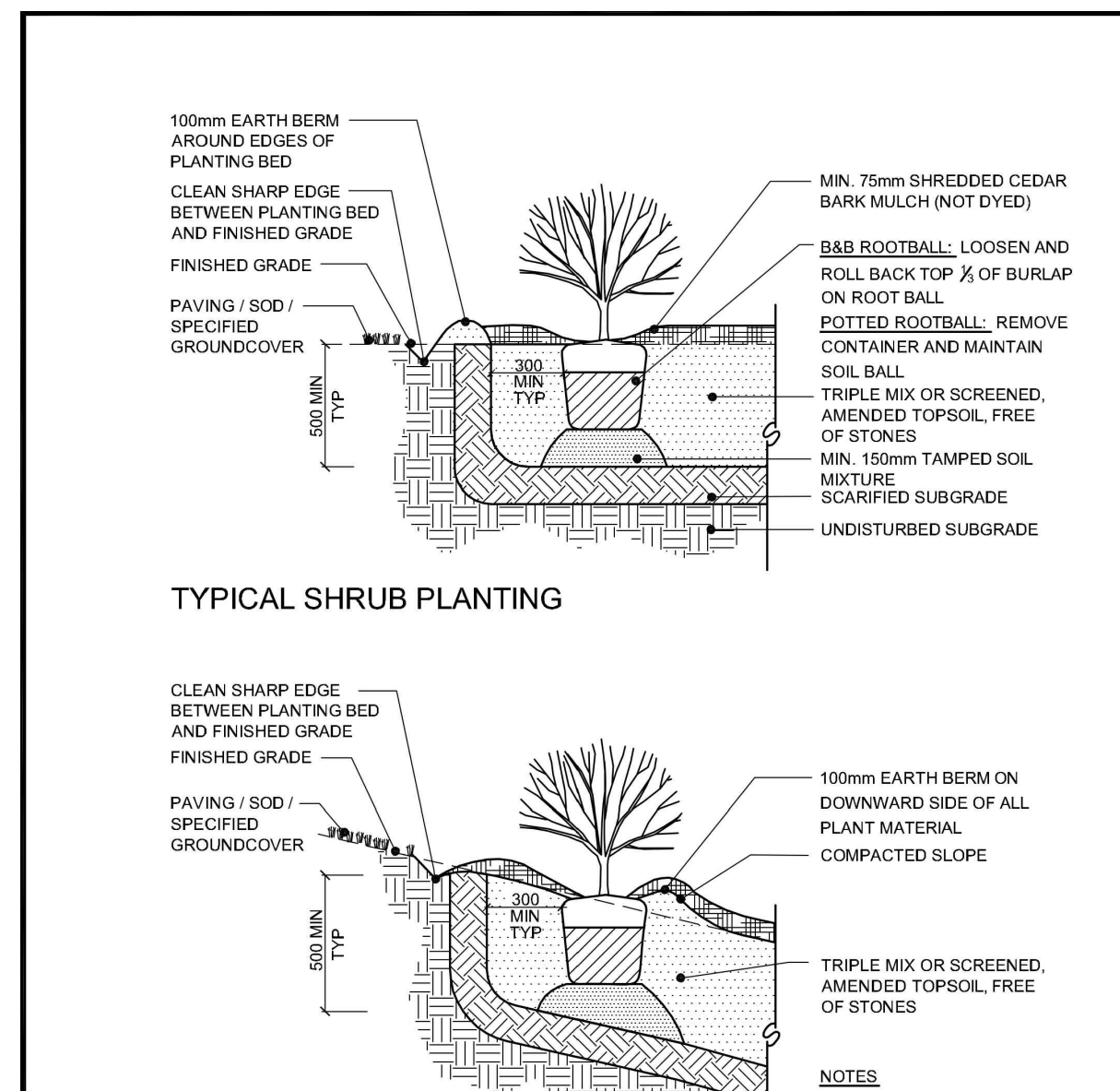
**NOTES:**

- DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
- POSITION CROWN OF ROOT BALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLING.
- FOR TREES PLANTED WITHIN PLANTING OR SHRUB BEDS, DELETE SAUCER AROUND BASE OF TREE.
- NO TREE PITS SHALL BE LEFT OPEN OVERNIGHT.
- ALL DIMENSIONS ARE IN MILLIMETRES.

NO.	REVISION	APPRD	DATE
1	PLANTING METHODOLOGY	EN	JUL04
2	PLANTING METHODOLOGY	DW	JUN07

TOWN OF COLLINGWOOD  
CONIFEROUS TREE PLANTING  
APPRD: DW DATE: JAN03  
DRAWN: AB SCALE: NTS  
STD. No. 1102

4 LD2 CONIFEROUS TREE PLANTING NTS



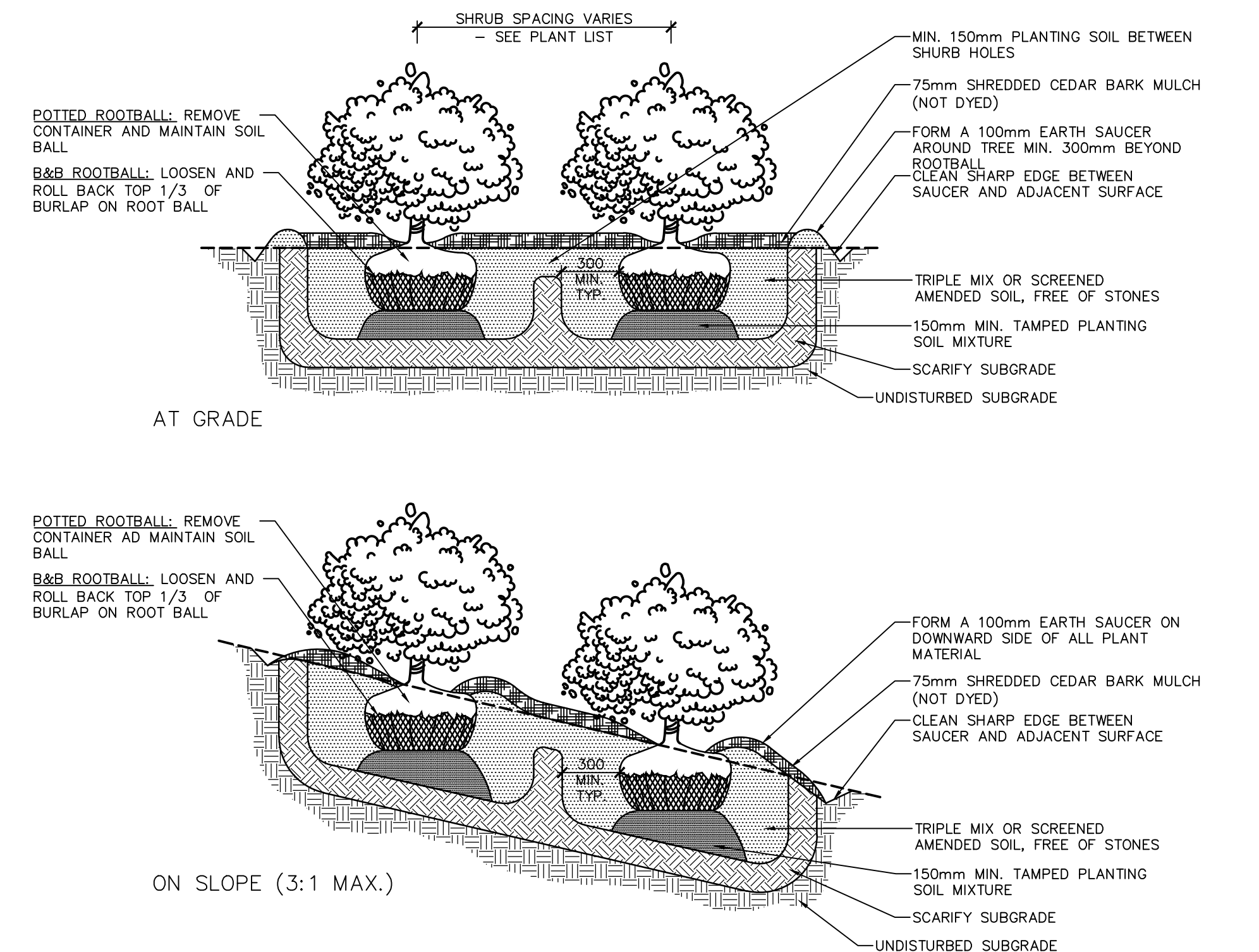
**NOTES:**

- DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
- POSITION CROWN OF ROOT BALL 25mm ABOVE FINISH GRADE TO ALLOW FOR SETTLING.
- ALL DIMENSIONS ARE IN MILLIMETRES.

NO.	REVISION	APPRD	DATE
1	PLANTING METHODOLOGY	EN	JUL04
2	PLANTING METHODOLOGY	DW	JUN07

TOWN OF COLLINGWOOD  
SHRUB PLANTING  
APPRD: DW DATE: JAN03  
DRAWN: AB SCALE: NTS  
STD. No. 1103

5 LD2 SHRUB PLANTING NTS



6 LD2 MULCH UNDERSTOREY SHRUB PLANTING NTS

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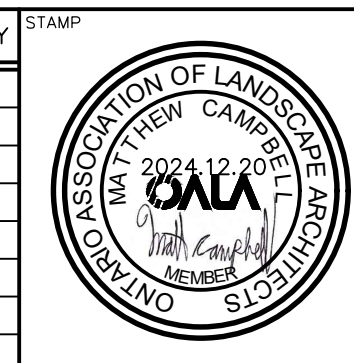
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Project: WYLDEWOOD CREEK  
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE DETAILS

**CROZIER CONSULTING ENGINEERS**

Drawn By: K.W. / A.M. Design By: K.W. Project: 1535-4897

Check By: K.W. Scale: AS SHOWN Drawing: LD-2