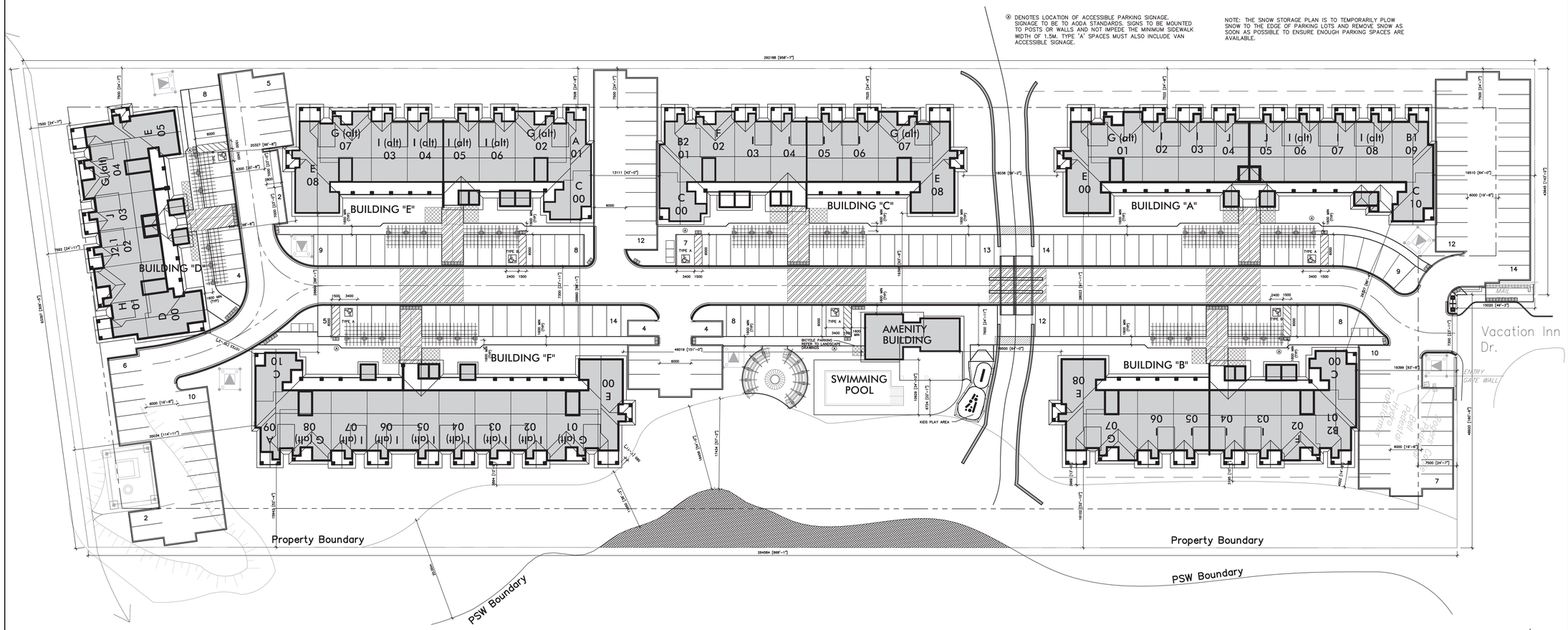


Ⓐ DENOTES LOCATION OF ACCESSIBLE PARKING SIGNAGE. SIGNAGE TO BE TO AODA STANDARDS. SIGNS TO BE MOUNTED TO POSTS OR WALLS AND NOT IMPEDE THE MINIMUM SIDEWALK WIDTH OF 1.5M. TYPE 'A' SPACES MUST ALSO INCLUDE VAN ACCESSIBLE SIGNAGE.

NOTE: THE SNOW STORAGE PLAN IS TO TEMPORARILY PLOW SNOW TO THE EDGE OF PARKING LOTS AND REMOVE SNOW AS SOON AS POSSIBLE TO ENSURE ENOUGH PARKING SPACES ARE AVAILABLE.

SITE STATISTICS

TOWN OF COLLINGWOOD	COUNTY OF SIMCOE	
TOTAL SITE AREA	2.56 HA	
DEVELOPABLE SITE AREA 41% of Developable Area is Landscape/ Open Space Revised Site Plan per Proposed Variable Buffer Zone and 16m Building Setback from East Property Line	22,058.1 m2	
VARIABLE BUFFER ZONE	2,988.4 m2	
EXISTING PSW	442.2m²	
BUILDING COVERAGE	5,232.76 m2	25.03%
LANDSCAPE AREA	8,221.24 m2	41%
OPEN SPACE	822.58 m2	
PAVED AREA	7,493.75 m2	33.97%
RECREATION BLOCK	1320.0 m2	
OUTDOOR AMENITY SPACE		1630 m2
Amenity Space/Building (20m²/ Building) (Includes: Bench/Garbage Receptacle/Bike Rack)		120 m2
GROSS BUILDING AREA	16,491.755 m2	
BUILDING HEIGHT	13.580 m	
(FROM FINISHED FRONT GRADE TO HIGHEST ROOF RIDGE)		
NUMBER OF UNITS	165	
BUILDING CODE CLASSIFICATION	GROUP C RESIDENTIAL	
(3 STOREY BUILDING HEIGHT, BUILDING AREA NOT TO EXCEED 600 M2)		
RESIDENT PARKING REQUIRED (1.00 x 165 UNITS) = 165 SPACES		
VISITOR PARKING REQUIRED (0.25 x 165 UNITS) = 41.25 SPACES		
TOTAL PARKING PROVIDED = 207 SPACES		
MINIMUM PARKING STALL SIZE 2.8M X 6.00M = 16.8 M2 BARRIER-FREE PARKING STALL SIZE TYPE A: 3.4M X 6.00M WITH 1.5M AISLE TYPE B: 2.4M X 6.00M WITH 1.5M AISLE		
BICYCLE PARKING PROVIDED = 72 SPACES		

1 A100 SITE PLAN
SCALE: 1:300 REF DWG: N/A

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.
THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.
ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.
DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2019/02/04	ISSUED FOR SITE PLAN APPROVAL
2	2021/04/05	RE-ISSUED FOR SITE PLAN APPROVAL
3	2022/01/14	RE-ISSUED FOR SITE PLAN APPROVAL
4	2023/03/28	RE-ISSUED FOR SITE PLAN APPROVAL
5	2024/03/11	RE-ISSUED FOR SITE PLAN APPROVAL
6	2025/04/28	RE-ISSUED FOR SITE PLAN APPROVAL
7		
8		

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 3A8
www.cmvarch.com
T 416.506.1600 F 416.506.0956

WYLDEWOOD Creek

CMV GROUP architects

Seal: ONTARIO ASSOCIATION OF ARCHITECTS DANIEL L. COWLING LICENCE 5603

Project
WYLDEWOOD CREEEK DESIGN DEVELOPMENT
WYLDEWOOD DEVELOPMENT CORPORATION

COLLINGWOOD ONTARIO

Drawing Title:
SITE PLAN

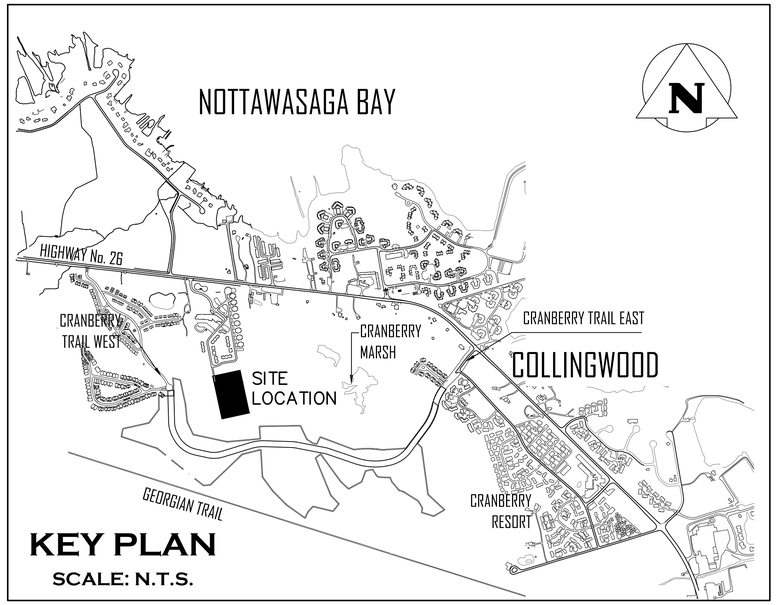
Drawn By:	Checked By:	Date Checked:	Project No.
	CMV		18A143
Date Plotted:			Scale:
Apr 28, 2025 - 8:30am			AS NOTED
Drawing No.:			Revision No.:
A100			6

IMAGES: S:\2018 Projects\18A143 - Wyldewood Creek\Design Drgs\Arch\A100 SITE PLAN + 1982 ESRI's Aerial\Large Aerial.jpg
S:\2018 Projects\18A143 - Wyldewood Creek\Presentation\signature.JPG
_x XREF: P:\WYLDEWOOD_CREEK_DAY_LOGO.jpg
FILE NAME: S:\2018 Projects\18A143 - Wyldewood Creek\Design Drgs\Arch\A100 SITE PLAN\18a143 a100 SITE PLAN.dwg
XREFS:
AO

WYLDEWOOD CREEK

TOWN OF COLLINGWOOD

COUNTY OF SIMCOE



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

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

CROZIER CONSULTING ENGINEERS
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

Town

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 NUMBER & LOCATION

PROPOSED FEATURES (PR.)

- PR. PROPERTY LIMITS
- PR. ELEVATION
- PR. EDGE OF PAVEMENT
- PR. ELEVATION (MATCH EX. ELEVATION)
- PR. SWALE & SLOPE
- PR. DITCH DRAINAGE
- PR. WATERMAIN & 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 CATCHMENT
- CATCHMENT AREA ID
- AREA (ha)
- 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
- RUNOFF COEFFICIENT
- DRAINAGE AREA (ha)
- PR. CURB CUT
- PR. CANADA POST COMMUNITY MAIL BOX
- PR. TRANSFORMER AND GROUNDING GRID
- PR. STREET LIGHT
- PR. STOP SIGN
- PR. NAME SIGN
- 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

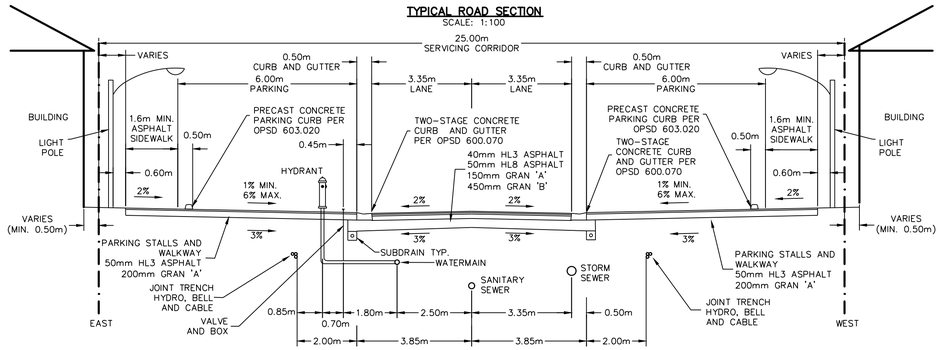
PROJECT No.: 1535-4897

6TH SUBMISSION

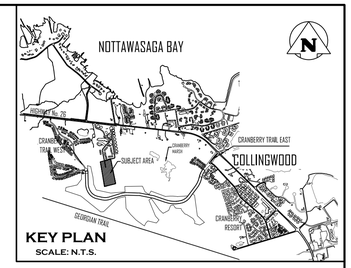
J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C100 COVER.dwg, TITLE, 2024-12-20 4:08:41 PM, lwaters

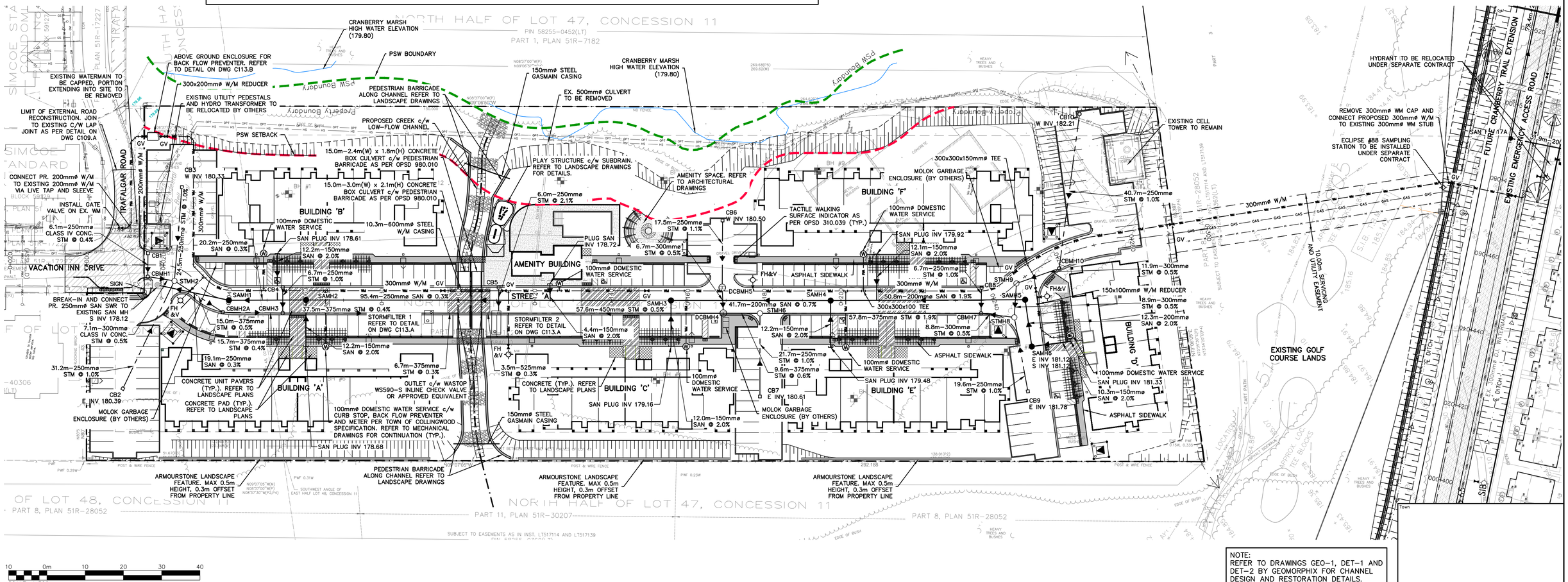
TYPICAL ROAD SECTION

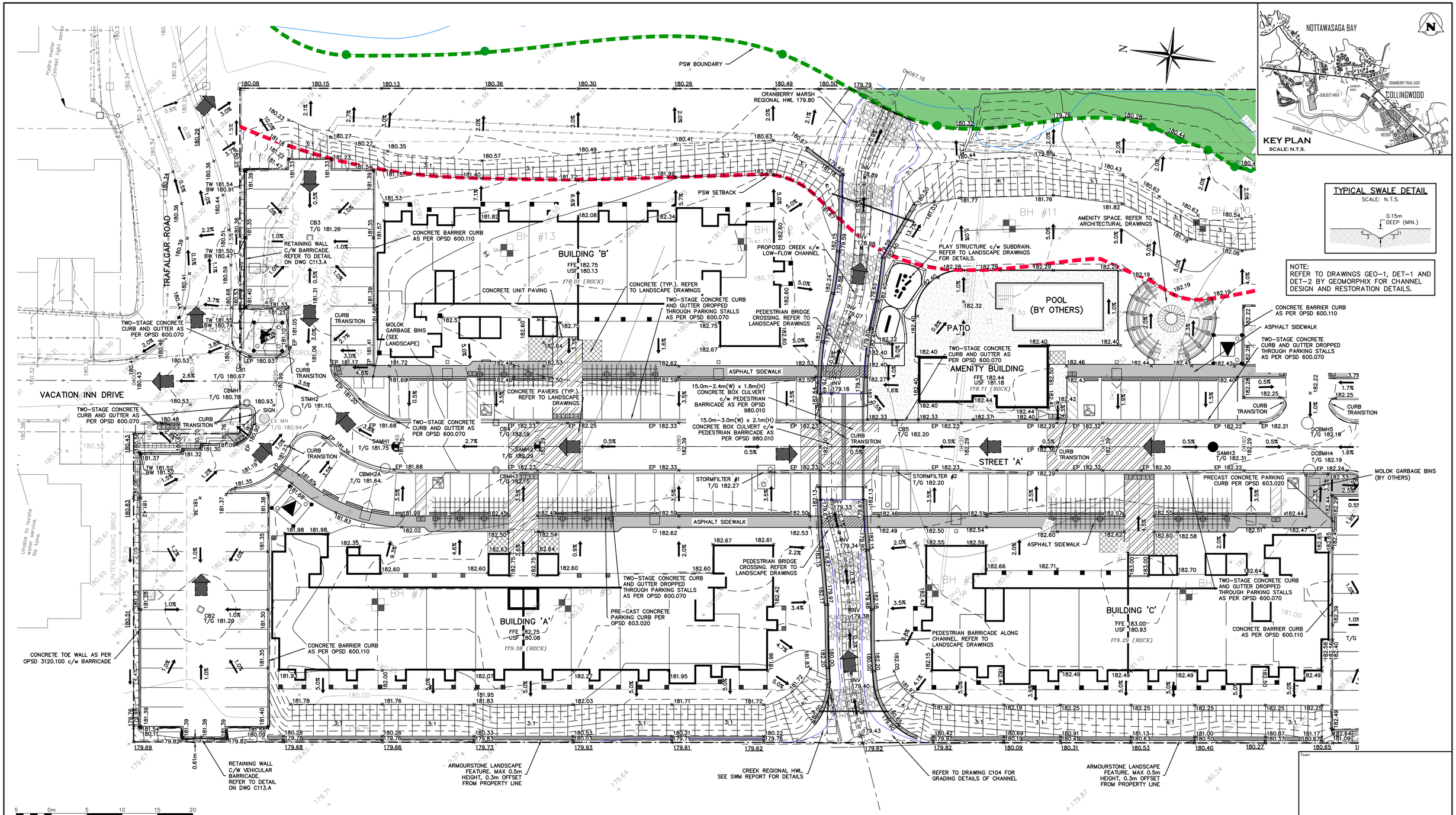
SCALE: 1:100



NOTES:
1. COVER ON STORM, SANITARY AND WATERMAIN AS PER DESIGN CRITERIA, UTILITY CORRIDOR SHALL HAVE MINIMUM COVER OF 1.0m.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWN DESIGN CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. SUBDRAINS TO BE INSTALLED AS PER OPSD 216.021.
4. 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.
5. GASMAIN TO BE INSTALLED IN THE REAR OF THE BUILDINGS.
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.




NORTH HALF OF LOT 47, CONCESSION 11
PIN 58255-0452(LT)
PART 1, PLAN 51R-7182
CRANBERRY MARSH
HIGH WATER ELEVATION
(179.80)
PSW BOUNDARY
ABOVE GROUND ENCLOSURE FOR
BACK FLOW PREVENTER. REFER
TO DETAIL ON DWG C113.B
EXISTING WATERMAIN TO
BE CAPPED, PORTION
EXTENDING INTO SITE TO
BE REMOVED
300x200mmø W/M REDUCER
EXISTING UTILITY PEDESTALS
AND HYDRO TRANSFORMER TO
BE RELOCATED BY OTHERS
LIMIT OF EXTERNAL ROAD
RECONSTRUCTION. JOIN
TO EXISTING C/W LAP
JOINT AS PER DETAIL ON
DWG C109.A
PEDESTRIAN BARRICADE
ALONG CHANNEL REFER TO
LANDSCAPE DRAWINGS
150mmø STEEL
GASMAIN CASING
EX. 500mmø CULVERT
TO BE REMOVED
CRANBERRY MARSH
HIGH WATER ELEVATION
(179.80)
PSW BOUNDARY
HYDRANT TO BE RELOCATED
UNDER SEPARATE CONTRACT
REMOVE 300mmø WM CAP AND
CONNECT PROPOSED 300mmø W/M
TO EXISTING 300mmø WM STUB
ECLIPSE #88 SAMPLING
STATION TO BE INSTALLED
UNDER SEPARATE
CONTRACT
FUTURE CRANBERRY TRAIL EXTENSION
EXISTING EMERGENCY ACCESS ROAD
10.00m SERVICING
AND UTILITY EASEMENT
PROPOSED CREEK c/w
LOW-FLOW CHANNEL
PSW SETBACK
15.0m-2.4m(W) x 1.8m(H) CONCRETE
BOX CULVERT c/w PEDESTRIAN
BARRICADE AS PER OPSD 980.010
15.0m-3.0m(W) x 2.1m(H) CONCRETE
BOX CULVERT c/w PEDESTRIAN
BARRICADE AS PER OPSD 980.010
PLAY STRUCTURE c/w SUBDRAIN.
REFER TO LANDSCAPE DRAWINGS
FOR DETAILS.
AMENITY SPACE. REFER
TO ARCHITECTURAL
DRAWINGS
CB1
W INV 180.33
CB3
W INV 180.33
CB10
W INV 182.21
EXISTING CELL
TOWER TO REMAIN
300x300x150mmø TEE
MOLOK GARBAGE
ENCLOSURE (BY OTHERS)
BUILDING 'F'
40.7m-250mmø
STM @ 1.0%
CONNECT PR. 200mmø W/M
TO EXISTING 200mmø W/M
VIA LIVE TAP AND SLEEVE
INSTALL GATE
VALVE ON EX. WM
6.1m-250mmø
CLASS IV CONC.
STM @ 0.4%
BUILDING 'B'
100mmø DOMESTIC
WATER SERVICE
10.3m-600mmø STEEL
W/M CASING
TACTILE WALKING
SURFACE INDICATOR AS
PER OPSD 310.039 (TYP.)
100mmø DOMESTIC
WATER SERVICE
CB6
W INV 180.50
17.5m-250mmø
STM @ 1.1%
6.7m-300mmø
STM @ 0.5%
PLUG SAN
INV 178.72
SAN PLUG INV 178.61
20.2m-250mmø
SAN @ 0.3%
12.2m-150mmø
SAN @ 2.0%
SAN PLUG INV 179.92
12.1m-150mmø
SAN @ 2.0%
VACATION INN DRIVE
AMENITY BUILDING
6.7m-250mmø
STM @ 1.0%
100mmø DOMESTIC
WATER SERVICE
FH&V
ASPHALT SIDEWALK
6.7m-250mmø
STM @ 1.0%
CBMH1
STMH2
SAMH1
CB4
SAMH2
CB5
STREET 'A'
SAMH3
DCBMH5
SAMH4
CB8
SAMH5
STMH9
CBMH10
11.9m-300mmø
STM @ 0.5%
SIGN
BREAK-IN AND CONNECT
PR. 250mmø SAN SWR TO
EXISTING SAN MH
S INV 178.12
CBMH2A
CBMH3
37.9m-375mmø STM @ 0.4%
95.4m-250mmø SAN @ 0.3%
57.8m-450mmø STM @ 0.5%
41.7m-200mmø SAN @ 0.7%
STMH6
300mmø W/M
300x300x100 TEE
50.8m-200mmø SAN @ 1.9%
150x100mmø W/M REDUCER
8.9m-300mmø
STM @ 0.5%
7.1m-300mmø
CLASS IV CONC.
STM @ 0.5%
15.0m-375mmø
STM @ 0.5%
STORMFILTER 1
REFER TO DETAIL
ON DWG C113.A
STORMFILTER 2
REFER TO DETAIL
ON DWG C113.A
4.4m-150mmø
SAN @ 2.0%
DCBMH4
57.8m-375mmø STM @ 1.9%
CBMH7
8.8m-300mmø
STM @ 0.5%
STMH8
12.3m-200mmø
SAN @ 2.0%
15.7m-375mmø
STM @ 0.4%
12.2m-150mmø
SAN @ 2.0%
19.1m-250mmø
SAN @ 0.3%
3.5m-525mmø
STM @ 0.3%
21.7m-250mmø
STM @ 1.0%
9.6m-375mmø
STM @ 0.6%
ASPHALT SIDEWALK
SAMH6
E INV 181.12
S INV 181.12
EXISTING GOLF
COURSE LANDS
31.2m-250mmø
STM @ 1.0%
6.7m-375mmø
STM @ 0.3%
CONCRETE UNIT PAVERS
(TYP.). REFER TO
LANDSCAPE PLANS
CONCRETE PAD (TYP.).
REFER TO LANDSCAPE
PLANS
BUILDING 'A'
OUTLET C/W WASTOP
WS590-S INLINE CHECK VALVE
OR APPROVED EQUIVALENT
CONCRETE (TYP.). REFER
TO LANDSCAPE PLANS
BUILDING 'C'
100mmø DOMESTIC
WATER SERVICE
SAN PLUG INV 179.16
12.0m-150mmø
SAN @ 2.0%
CB7
E INV 180.61
MOLOK GARBAGE
ENCLOSURE (BY OTHERS)
BUILDING 'E'
19.6m-250mmø
STM @ 1.0%
CB9
E INV 181.78
100mmø DOMESTIC WATER SERVICE
SAN PLUG INV 181.33
10.3m-150mmø
SAN @ 2.0%
ASPHALT SIDEWALK
CB2
E INV 180.39
MOLOK GARBAGE
ENCLOSURE (BY OTHERS)
100mmø DOMESTIC WATER SERVICE c/w
CURB STOP, BACK FLOW PREVENTER
AND METER PER TOWN OF COLLINGWOOD
SPECIFICATION. REFER TO MECHANICAL
DRAWINGS FOR CONTINUATION (TYP.).
SAN PLUG INV 178.68
150mmø STEEL
GASMAIN CASING
SAN PLUG INV 179.48
ARMOURSTONE LANDSCAPE
FEATURE. MAX 0.5m
HEIGHT, 0.3m OFFSET
FROM PROPERTY LINE
PEDESTRIAN BARRICADE
ALONG CHANNEL REFER TO
LANDSCAPE DRAWINGS
ARMOURSTONE LANDSCAPE
FEATURE. MAX 0.5m
HEIGHT, 0.3m OFFSET
FROM PROPERTY LINE
ARMOURSTONE LANDSCAPE
FEATURE. MAX 0.5m
HEIGHT, 0.3m OFFSET
FROM PROPERTY LINE
OF LOT 48, CONCESSION 11
PART 8, PLAN 51R-28052
NORTH HALF OF LOT 47, CONCESSION 11
PART 11, PLAN 51R-30207
PART 8, PLAN 51R-28052
SUBJECT TO EASEMENTS AS IN INST. LT517114 AND LT517139
SOUTHWEST ANGLE OF
EAST HALF LOT 48, CONCESSION 11
N09°07'05"W(M)
N08°37'00"W(P)
N08°37'30"W(P2,P4)
SIMCOE STANDARD CONDOMINIUM PLAN 51R-17227
TRAFALGAR ROAD
BLOCK 59129
PLAN 51M-1120
PART
PART 3, 51R-28052
PART 1, LT517114 AND LT517139
PART 2, 51R-28052
PART 1, 51R-7182
PART 1, 51R-30207
PART 2, 51R-30207
PART 1, 51R-28052
PART 2, 51R-28052
PART 1, 51R-7182
PART 2



TYPICAL SWALE DETAIL

SCALE: N.T.S.

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

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER — K. A. MORRIS — PROVINCE OF ONTARIO

Engineer: LICENSED PROFESSIONAL ENGINEER — R.A. ALEXANDER — 100213093 — December 09 2024 — PROVINCE OF ONTARIO

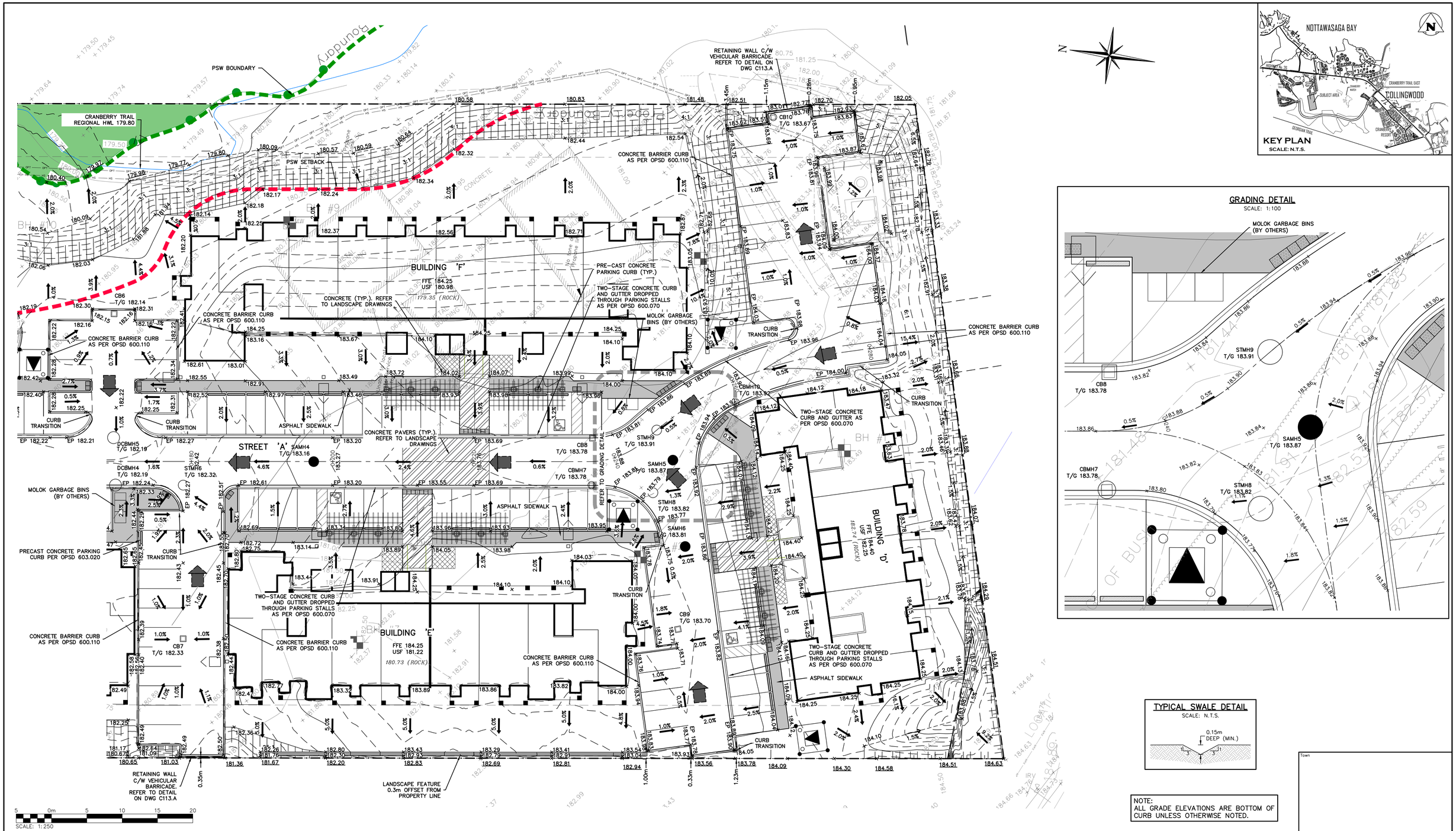
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: OVERALL SITE GRADING PLAN (NORTH)

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project	
L.W.	L.W.		1535-4897
Check By	Check By	Scale	Drawing
K.M.	R.A.	1:250	C102.A

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C102 GRAD.dwg, C102.A, 2024-12-20 4:10:28 PM, lwaters



GRADING DETAIL

SCALE: 1:100

TYPICAL SWALE DETAIL

SCALE: N.T.S.

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

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER — K. A. MORRIS — PROVINCE OF ONTARIO

Engineer: LICENSED PROFESSIONAL ENGINEER — R.A. ALEXANDER — 100213093 — December 20 2024 — PROVINCE OF ONTARIO

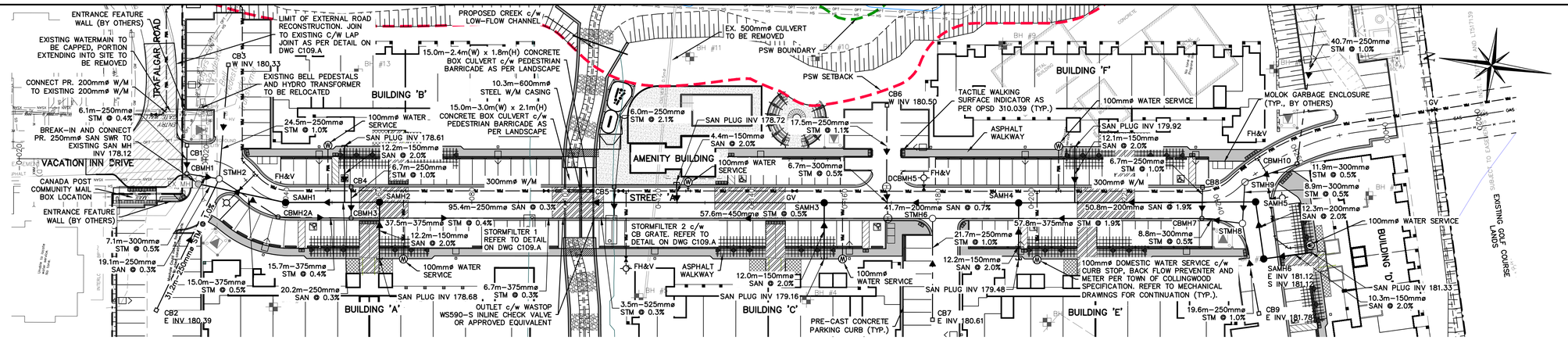
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

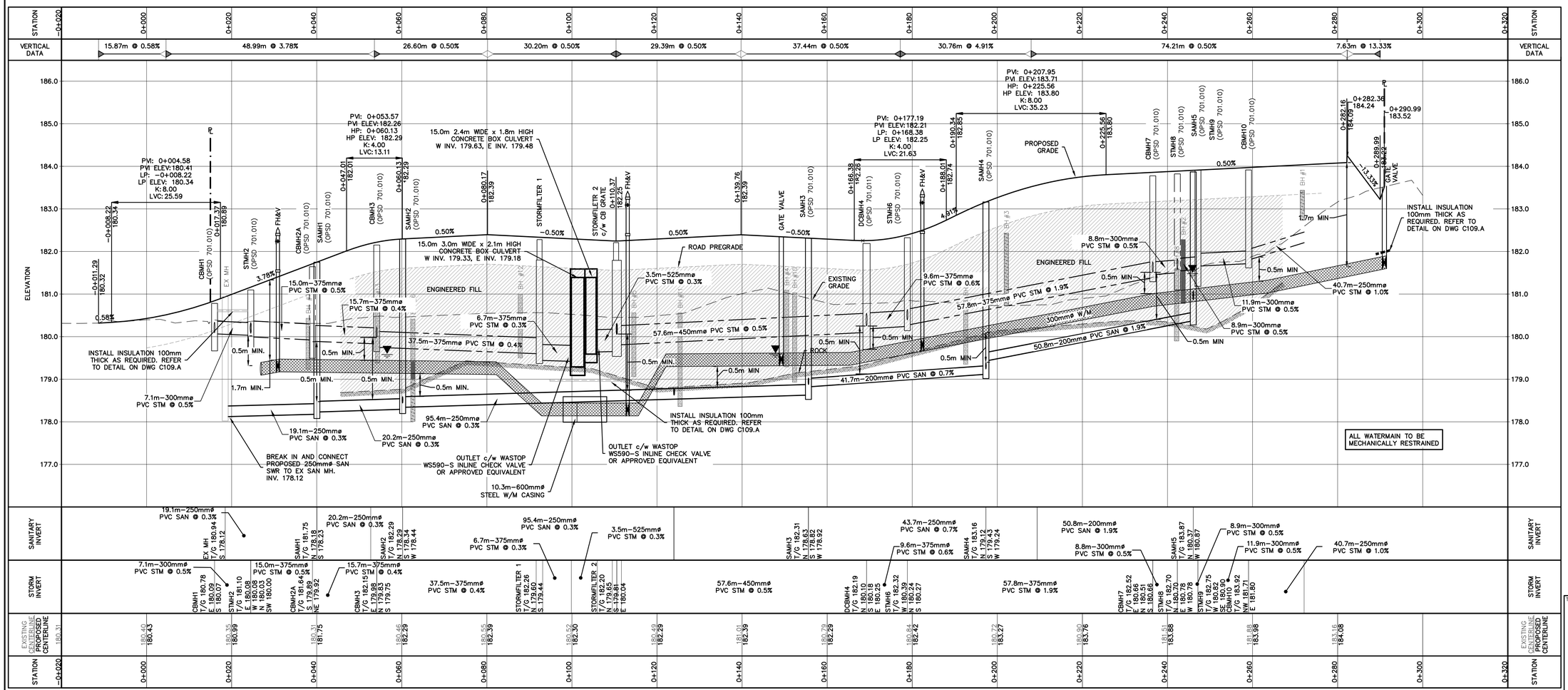
Drawing: OVERALL SITE GRADING PLAN (SOUTH)

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project	1535-4897
L.W.	L.W.		
Check By	Check By	Scale	Drawing
K.M.	R.A.	1:250	C102.B

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C102 GRAD.dwg, C102.B, 2024-12-20 4:10:39 PM, lwaters





BOREHOLE LEGEND

- BOREHOLE I.D.
- TOPSOIL
- SAND
- APPROX. SEASONAL HIGH GROUND WATER LEVEL
- SILTY SAND TILL
- EARTH FILL

GEOTECHNICAL INVESTIGATION COMPLETED BY SOIL ENGINEERS LTD. DATED SEPTEMBER 2018.

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

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

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

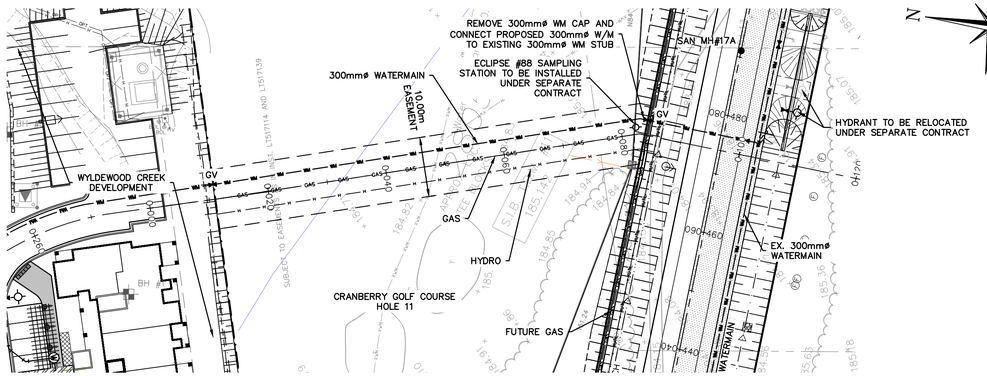
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

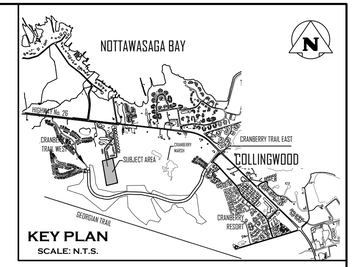
Drawing: PLAN & PROFILE STREET 'A'
(STA 0+000 – 0+288.22)

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

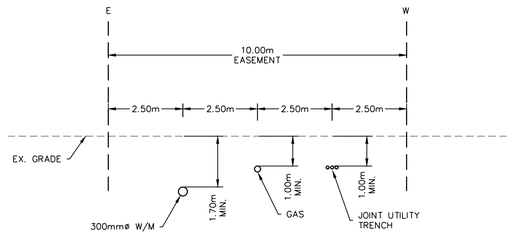
J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C103 P&P.dwg, C103.A, 2024-12-20 4:11:50 PM, lwaters

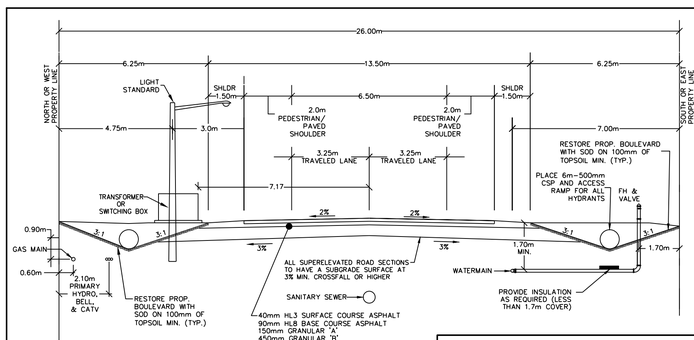




TYPICAL SERVICING EASEMENT CROSS SECTION

SCALE 1:100





NOTES:

1. COVER ON STORM, SANITARY & WATERMAIN AS PER DESIGN CRITERIA. UTILITY CORRIDOR SHALL HAVE A MINIMUM COVER OF 0.9m.
2. THE SUPERELEVATION ROAD SECTIONS TO HAVE A MINIMUM 3% CROSS FALL SURFACE OR HIGHER.
3. MINIMUM PAVEMENT & ROAD STRUCTURE DESIGN AS PER TOWN DESIGN CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATIONS.
4. TREES TO BE PLACED IN LOCATIONS AS PER APPROVED LANDSCAPE PLAN.
5. ACTIVELY GROWING NURSERY SOD TO BE LAID ON 100mm TOPSOIL PROPERLY GRADED AND ROLLED.
6. 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.
7. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
8. DELINEATION BETWEEN TRAVELLED LANE AND BIKE PATH TO BE FINISHED WITH A 0.10m WIDE SOLID WHITE PAINTED LINE - ALL PAINT MARKINGS PER OTM - BOOK 11
9. CENTERLINE OF TRAVELLED LANES TO BE 0.10m WIDE SOLID YELLOW PAINTED LINE PER OTM - BOOK 11.

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	

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER — K. A. MORRIS — PROVINCE OF ONTARIO

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

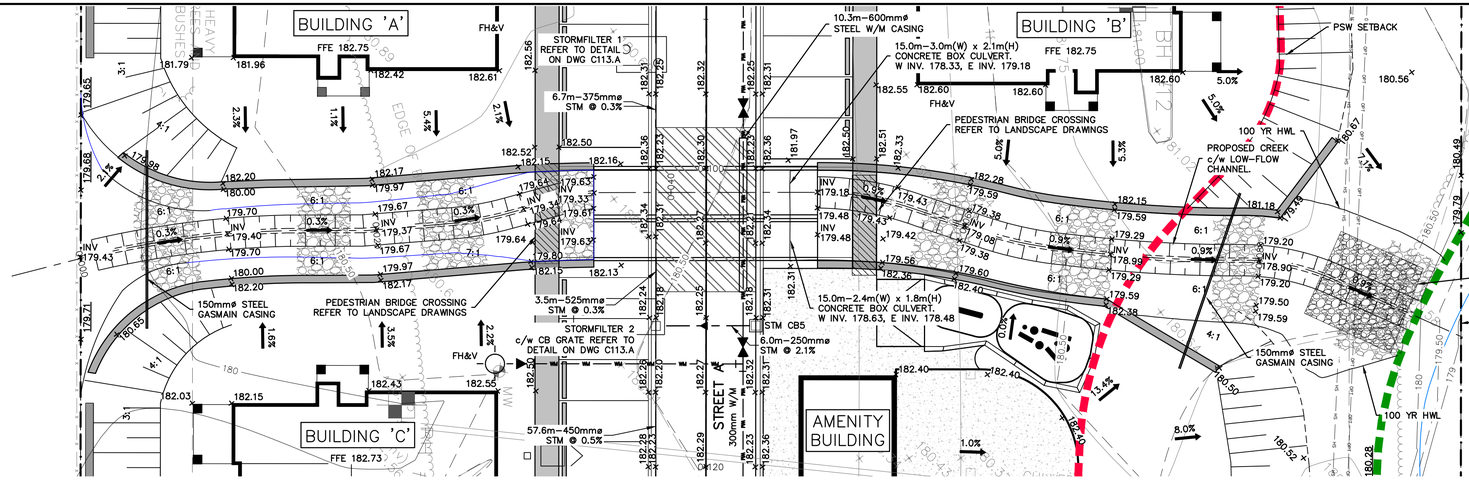
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

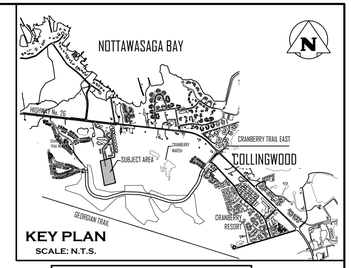
Drawing: PLAN & PROFILE
SERVICING EASEMENT

CROZIER CONSULTING ENGINEERS

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

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C103 P&P.dwg, C103.B, 2024-12-20 4:12:13 PM, lwaters

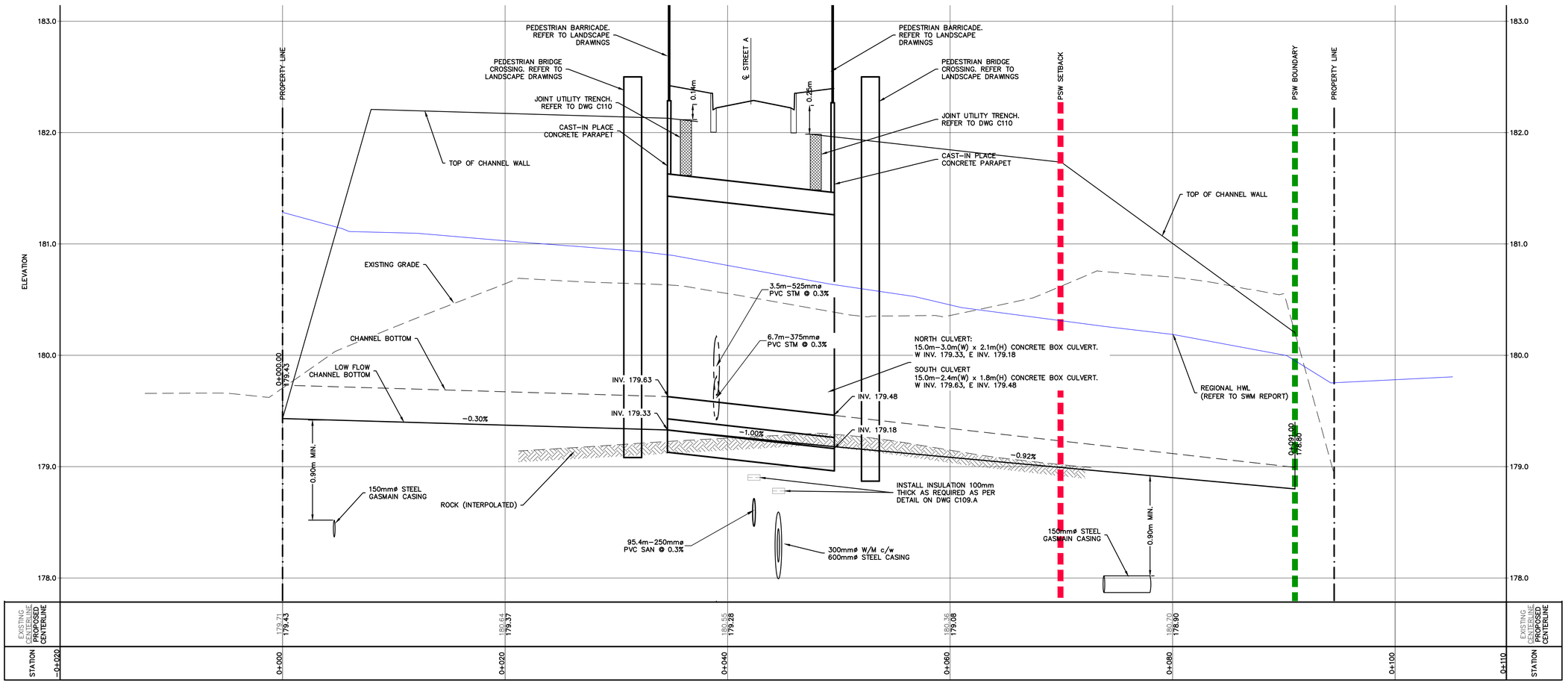




NOTE:
GRADING AND RIP-RAP EROSION PROTECTION AT CHANNEL OUTLET TO BE FIELD FIT TO ENSURE POSITIVE DRAINAGE TO CRANBERRY MARSH

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.



Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER K. A. MORRIS PROVINCE OF ONTARIO Dec. 20/24

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

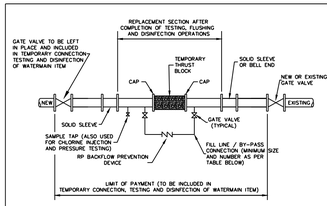
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: CHANNEL PLAN & PROFILE AND GRADING DETAILS

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project	
L.W.	L.W.		1535–4897
Check By	Check By	Scale	Drawing
K.M.	R.A.	H 1:200 V 1:20	C104

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C104 CREEK.dwg, C104, 2024-12-20 4:13:14 PM, lwaters



NTS

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

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

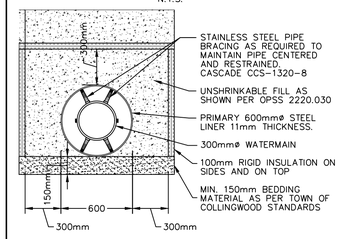
NOTE:
GRADING AND RIP-RAP EROSION PROTECTION AT CHANNEL OUTLET TO BE FIELD FIT TO ENSURE POSITIVE DRAINAGE TO CRANBERRY MARSH

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.

STEEL LINER DETAIL FOR WATERMAIN

N.T.S.

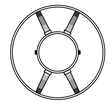


CASING SPACERS

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

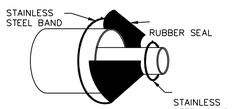
NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF MATERIAL AND INSTALLATION METHODOLOGY FOR REVIEW AND APPROVAL.
2. ALL CASING SPACERS ARE TO BE MADE OF T-304 STAINLESS STEEL.
3. BEARING SURFACES (RUNNERS) SHALL BE ULTRA HIGH MOLECULAR WEIGHT POLYMER OR EQUIVALENT.
4. POSITIONING OF SPACERS ALONG THE WATERMAIN IS TO BE AS PER MANUFACTURER'S SPECIFICATIONS.
5. 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.



CENTERED & RESTRAINED

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



GENERAL CONSTRUCTION SCHEDULE

1. IN STREAM WORKS TO COMPLY WITH NVCA TIMING GUIDELINES AND ASSOCIATED PERMITTING.
2. MAINTAIN TEMPORARY WATER MANAGEMENT WORKS 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.

GENERAL NOTES

1. ALL WORK TO BE PERFORMED IN DRY DEWATERED CONDITIONS USING APPROVED WATER MANAGEMENT PLAN.
2. NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30 METRES OF WATERCOURSE.
3. 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.
4. ALL TEMPORARY SOIL OR DIRT TO BE STOCKPILED PER DESIGNATED AREAS.
5. FLOW INFORMATION PROVIDED HEREIN CONCERNING CRANBERRY MARSH OUTLET FOR CONTRACTOR USE ONLY.
6. 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.
7. FINAL RETAINING WALL DESIGN SPECIFICATIONS TO BE CONFIRMED AND APPROVED BY ENGINEER

GENERAL BRIDGE NOTES

1. FOOTING DETAILS (DIMENSIONS & REINFORCING) FOR MUNICIPAL APPROVAL PROCESS ONLY. ACTUAL SIZE OF FOOTINGS AND REINFORCING AS PER DESIGN BY CONTRACTOR.
2. FOOTINGS ARE ASSUMED TO BE FOUNDED ON BEDROCK; CONTRACTOR TO CONFIRM IN FIELD.
3. DESIGN IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA-S6-06).
4. 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.
5. CLASS OF CAST-IN-PLACE CONCRETE = 30 MPa.
6. CLEAR COVER TO REINFORCING;
   FOOTINGS = 100±25
   DISTRIBUTION SLAB = AS NOTED ON DWG.
7. BAR MARKS WITH SUFFIX 'C' DENOTE COATED BARS.
8. REINFORCING BARS SHALL BE GRADE 400 MPa.
9. CONTRACTOR TO PROVIDE MIN. 0.75m GRANULAR ABOVE CULVERT STRUCTURE DURING CONSTRUCTION.

REQUIREMENTS FOR THE CONTRACTOR

1. 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.
2. SUBMISSION SHALL INCLUDE DETAILS ON REACTION LOADS, BOTH HORIZONTAL & VERTICAL, TO RE RESISTED BY FOUNDATION AS WELL AS DETAILS ON PROPOSED ANCHORAGE FOR CULVERT & FOOTINGS.
3. ENSURE THAT THE SHOP DRAWINGS ARE SPECIFIC TO THIS CONTRACT, AND REFERENCED TO CFCA PROJECT No. 1535-4897, AND NOT A "STOCK ITEM".
4. ENSURE THAT SHOP DRAWINGS SHOW AND SPECIFY ALL JOINT FILLERS, SEALS AND COMPOUNDS, GROUT, AND GEOTEXTILE INSTALLATIONS AND APPLICATIONS.

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER K. A. MORRIS PROVINCE OF ONTARIO Dec. 20/24

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

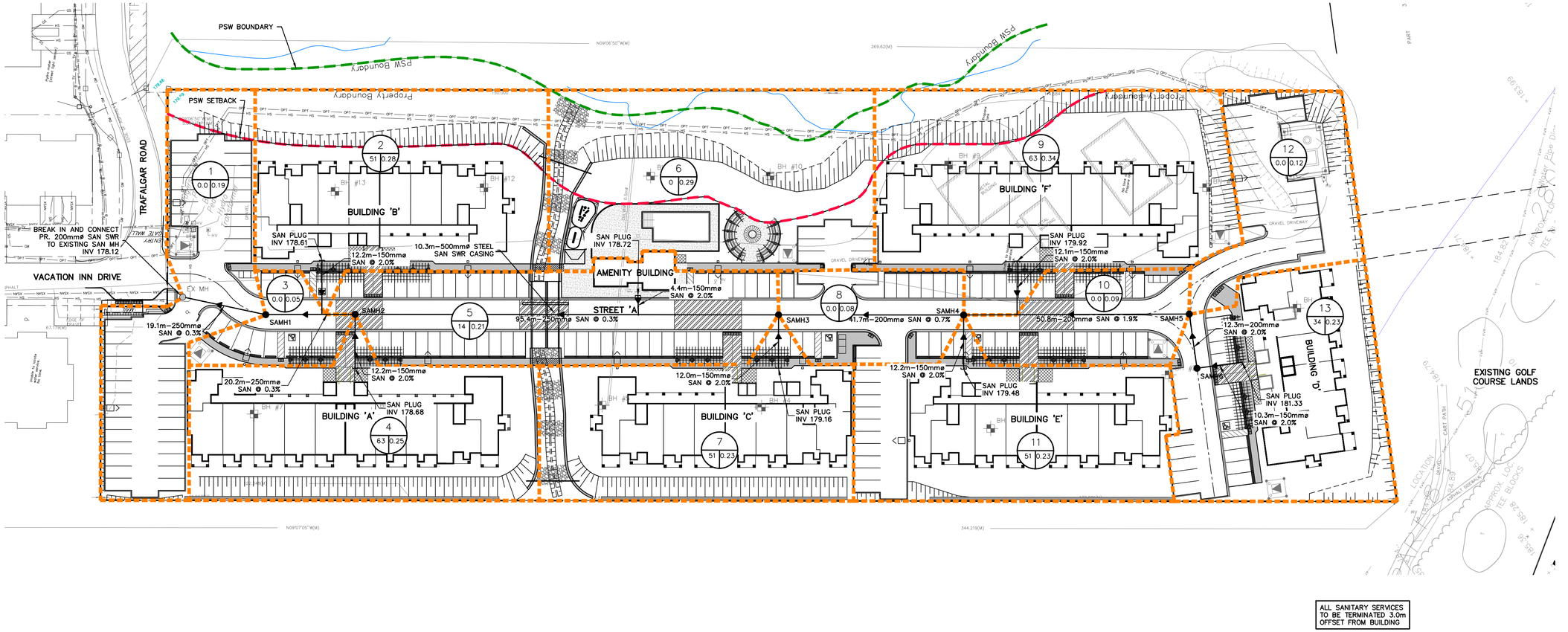
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

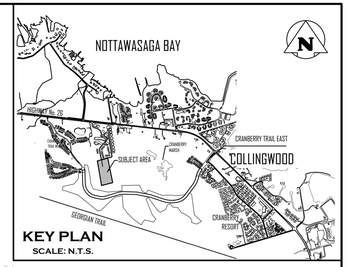
Drawing: CULVERT CROSSING NOTES AND DETAILS

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
L.W.	L.W.	1535-4897
Check By	Check By	Scale / Drawing
K.M.	R.A.	AS NOTED / C105

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C105 CROSSING & DET.dwg, C105, 2024-12-20 4:13:39 PM, lwaters





ALL SANITARY SERVICES TO BE TERMINATED 3.0m OFFSET FROM BUILDING

10 0m 10 20 30 40
SCALE: 1:500

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

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

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

Town

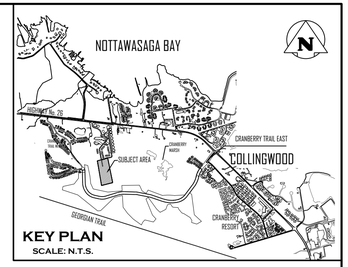
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: SANITARY DRAINAGE PLAN

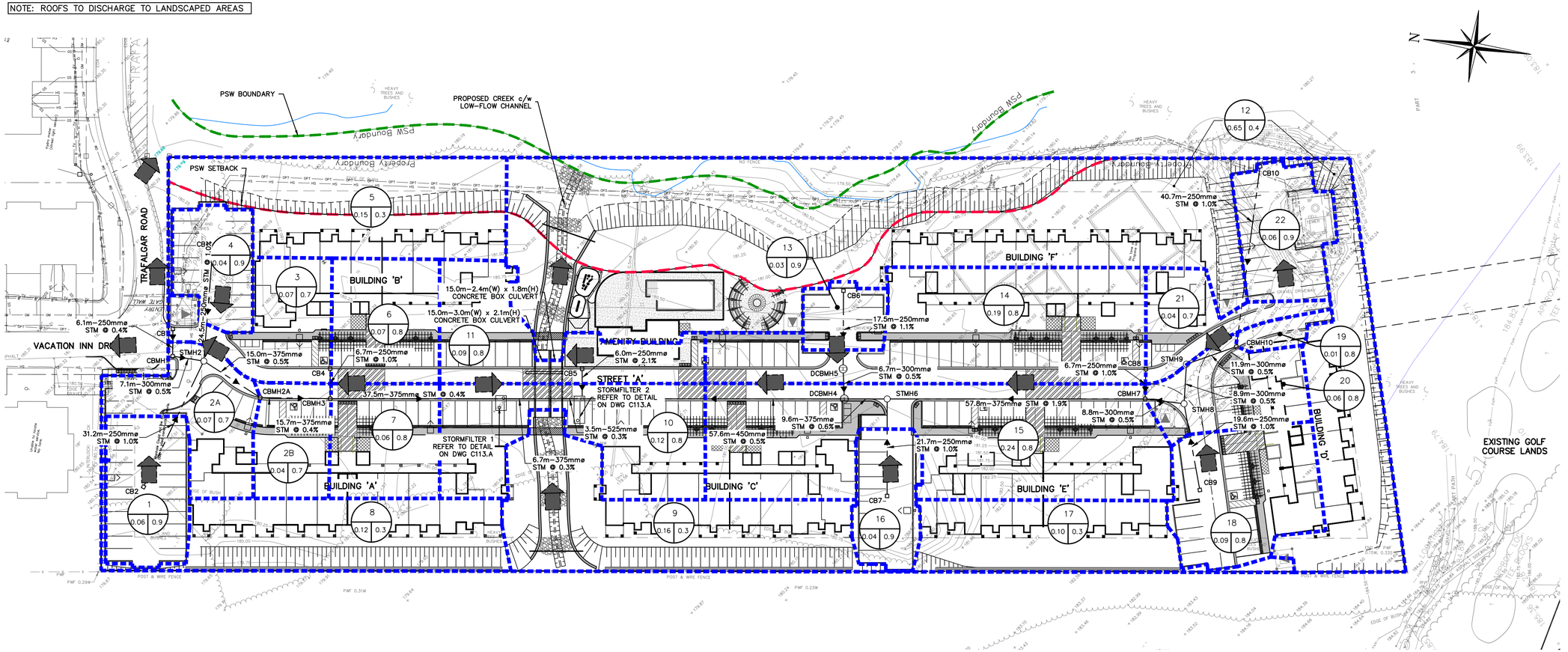
CROZIER CONSULTING ENGINEERS

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

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C106 SAN.dwg, C106, 2024-12-20 4:14:19 PM, lwaters



NOTE: ROOFS TO DISCHARGE TO LANDSCAPED AREAS



10 0m 10 20 30 40
SCALE: 1:500

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

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

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

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

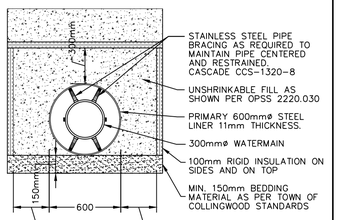
Drawing: STORM DRAINAGE PLAN

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 C107

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C107 STM.dwg, C107, 2024-12-20 4:15:07 PM, lwaters

STEEL LINER DETAIL
N.T.S.

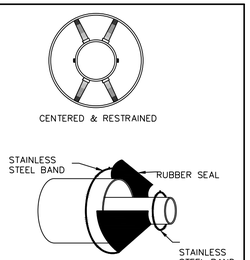


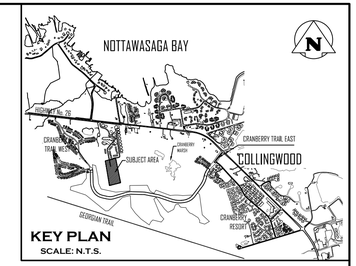
CASING SPACERS

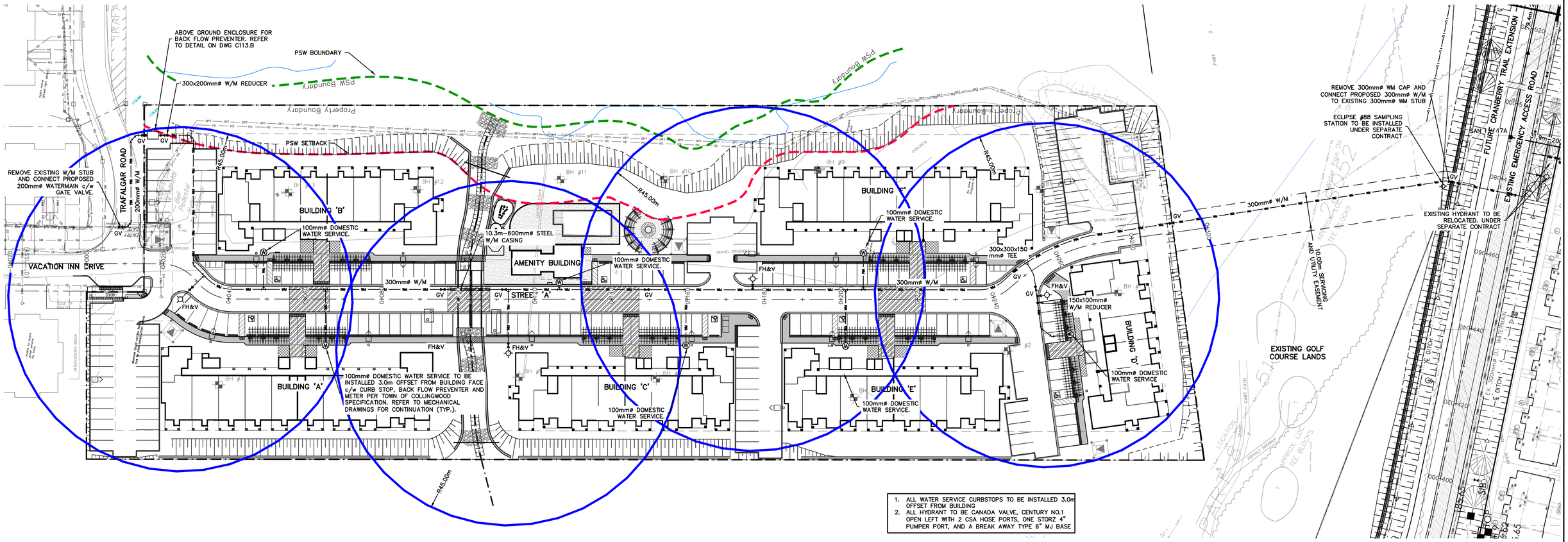
- CASCADE: CCS – 1320-8 (OR APPROVED EQUAL)

NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF MATERIAL AND INSTALLATION METHODOLOGY FOR REVIEW AND APPROVAL.
2. ALL CASING SPACERS ARE TO BE MADE OF T-304 STAINLESS STEEL.
3. BEARING SURFACES (RUNNERS) SHALL BE ULTRA HIGH MOLECULAR WEIGHT POLYMER OR EQUIVALENT.
4. POSITIONING OF SPACERS ALONG THE WATERMAIN IS TO BE AS PER MANUFACTURER'S SPECIFICATIONS.
5. 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.
6. WATERMAIN SHALL BE RESTRAINED LATERALLY FOR THE ENTIRE LENGTH OF THE LINER PLUS ONE FULL PIPE LENGTH BEYOND END OF CASING.
7. LINER TO BE SEALED USING WRAP AROUND RUBBER ENDS COMPLETE WITH STAINLESS STEEL (T-304) BANDING.







1. ALL WATER SERVICE CURBSTOPS TO BE INSTALLED 3.0m OFFSET FROM BUILDING
2. ALL HYDRANT TO BE CANADA VALVE, CENTURY NO.1 OPEN LEFT WITH 2 CSA HOSE PORTS, ONE STORZ 4" PUMPER PORT, AND A BREAK AWAY TYPE 6" MJ BASE

10 0m 10 20 30 40
SCALE: 1:500

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER K. A. MORRIS Dec. 20/24 PROVINCE OF ONTARIO

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

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: WATER DISTRIBUTION PLAN

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
L.W.	L.W.	1535-4897
Check By	Check By	Scale / Drawing
K.M.	R.A.	1:500 / C108

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C108 WAT.dwg, C108, 2024-12-20 4:15:50 PM, lwaters

GENERAL NOTES:

1. 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.
2. NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30 METRES OF AN EXISTING WATER COURSE OR DITCH.
3. 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 ACCESS MUD MAT AND CHECK DAMS.
4. 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.
5. 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.
6. 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.
7. DURING THE CONSTRUCTION PERIOD, WHEN INTERNAL BLOCKS HAVE INITATED CONSTRUCTION, A STREET CLEANING SCHEDULE WILL BE UNDERTAKEN ON A MINIMUM WEEKLY BASIS, OR AS DIRECTED BY THE SITE ENGINEER OR MUNICIPALITY.
8. ANY ADJUSTMENTS TO THE EROSION AND SEDIMENT CONTROLS MADE BY THE CONTRACTOR SHALL BE DOCUMENTED IN WRITING.

CONSTRUCTION IMPLEMENTATION:

A) PRE-CONSTRUCTION
1. SITE ENGINEER TO ADVISE TOWN OF STAFF RESPONSIBLE FOR SITE SEDIMENT CONTROL SUPERVISION, INSPECTION AND MAINTENANCE, INCLUDING AFTER HOUR CONTACTS.
2. SITE ENGINEER TO PROVIDE WRITTEN INSPECTION AND MAINTENANCE SCHEDULE OF SEDIMENT CONTROL DEVICES.
3. 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)
1. CONTRACTOR TO ENSURE TOPSOIL STRIPPING, GRADING AND UNDERGROUND WORKS CONFORM TO APPROVED GRADING, SERVICING AND EROSION CONTROL PLANS.
2. SITE ENGINEER TO CONDUCT REQUIRED WEEKLY INSPECTION, MAINTENANCE AND REPORTING OF SEDIMENT CONTROLS TO THE TOWN.
3. CONTRACTOR TO STABILIZE SITE AS REQUIRED THROUGHOUT SITE CONSTRUCTION SCHEDULE.

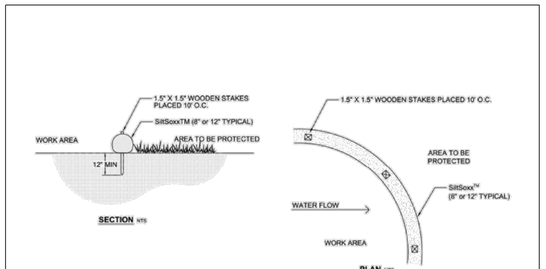
C) POST CONSTRUCTION (INCLUDING BUILDING CONSTRUCTION)
1. CONTRACTOR TO COMPLETE FINAL SITE STABILIZATION AND REVEGETATION WORKS. ALL SWALES EXPECTED TO REMAIN IN EXCESS OF 30 DAYS TO BE STABILIZED BY CONTRACTOR VIA HYDROSEEDING.
2. CONTRACTOR TO REMOVE ALL SEDIMENT CONTROL DEVICES AFTER THE SITE IS 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
1. SILT FENCE TO BE LOCATED ON CRANBERRY TRAIL PROPERTY LINE.
2. SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT.
3. SILT FENCE MUST BE INSPECTED FOLLOWING ALL 13mm OR GREATER RAIN STORM EVENT OR AS DIRECTED BY SITE ENGINEER.
4. SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
5. 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
1. REMOVE ACCUMULATED SEDIMENT UP STREAM OF THE CHECK DAM IF GREATER THAN 50% OF DAM HEIGHT.
2. SILT REMOVAL MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWN STREAM SEDIMENTATION IN SWALE OR DITCH.
3. CHECK DAMS AND ALL ACCUMULATED SEDIMENT MUST BE REMOVED WITH CARE ONCE THE CONSTRUCTION SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.

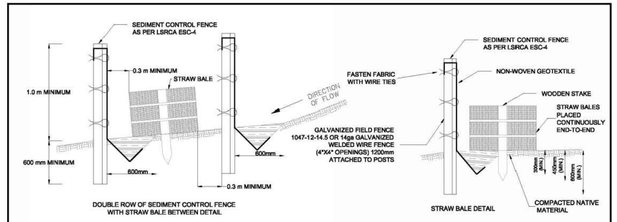
C) SEDIMENT TRAP
1. REMOVE ACCUMULATED SEDIMENT FROM THE SEDIMENT TRAP IF THE DEPTH IS GREATER THAN 50% OF THE TRAP DEPTH.
2. SILT REMOVAL MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWN STREAM SEDIMENTATION IN SWALE OR DITCH.
3. CHECK TRAPS AND ALL ACCUMULATED SEDIMENT MUST BE REMOVED WITH CARE ONCE THE CONSTRUCTION SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.



SiltSoxx™ for Sediment Control

NTS

325 | Filtrexx Low Impact Design Manual | Version 8.0



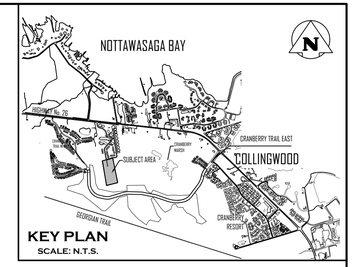
NOTES:

1. SEDIMENT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
2. 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 LS BASED ON SLOPE LENGTH AND GRADIENT.
3. 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.
4. STEEL 'T' BAR POSTS ARE TO BE SPACED A MAXIMUM DISTANCE OF 2000 mm ON CENTER.
5. STRAW BALES TO BE PLACED END-TO-END CONTINUOUSLY BETWEEN SEDIMENT CONTROL FENCES.
6. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
7. 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.
8. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
9. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN.

NO.	REVISION	DATE
1	SWM GUIDELINES UPDATE	06.2016

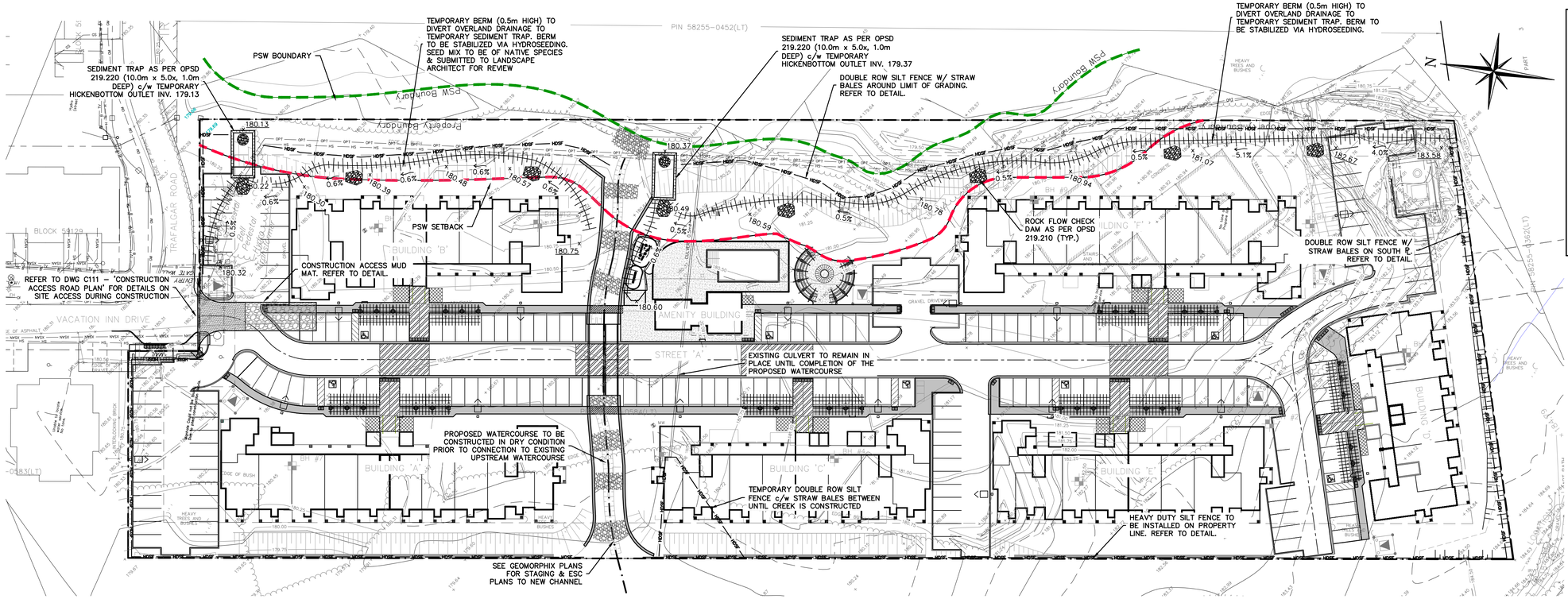
DOUBLE ROW SEDIMENT CONTROL FENCE

DATE: 06.2016
SCALE: NTS
LSRCA ESC-5



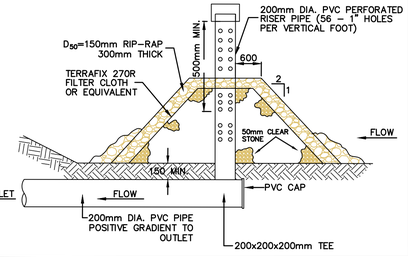
NOTE:
GRADING AND RIP-RAP EROSION PROTECTION AT CHANNEL OUTLET TO BE FIELD FIT TO ENSURE POSITIVE DRAINAGE TO CRANBERRY MARSH

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



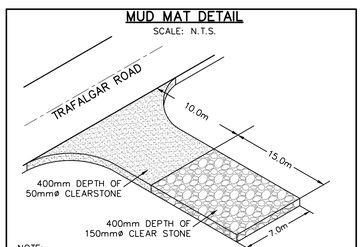
TEMPORARY HICKENBOTTOM OUTLET

N.T.S.



MUD MAT DETAIL

SCALE: N.T.S.



NOTE:
GEOTEXTILE (TERRAFIX 270R OR APPROVED EQUAL) TO BE PLACED AS SEPARATION BARRIER BETWEEN EXISTING GROUND AND CLEAR STONE.

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

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

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

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

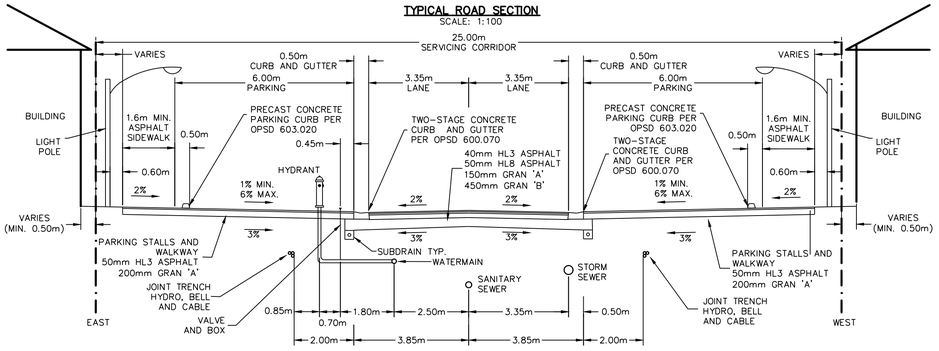
Drawing: EROSION AND SEDIMENT CONTROL PLAN

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

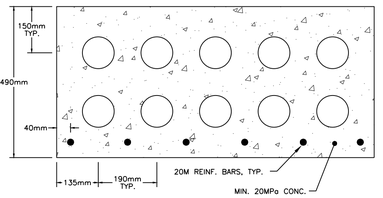
J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C109 ESC.dwg, C109, 2024-12-20 4:16:29 PM, lwaters

TYPICAL ROAD SECTION
SCALE: 1:100



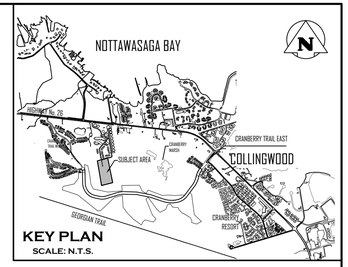
NOTES:
1. COVER ON STORM, SANITARY AND WATERMAIN AS PER DESIGN CRITERIA, UTILITY CORRIDOR SHALL HAVE MINIMUM COVER OF 1.0m.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWN DESIGN CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. SUBDRAINS TO BE INSTALLED AS PER OPSD 216.021.
4. 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.
5. GASMAIN TO BE INSTALLED IN THE REAR OF THE BUILDINGS.
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.

DUCT BANK DETAIL (TYP.)
N.T.S.



GENERAL CONSTRUCTION SCHEDULE
1. IN STREAM WORKS TO COMPLY WITH NVCA TIMING GUIDELINES AND ASSOCIATED PERMITTING.
2. MAINTAIN TEMPORARY WATER MANAGEMENT WORKS 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.

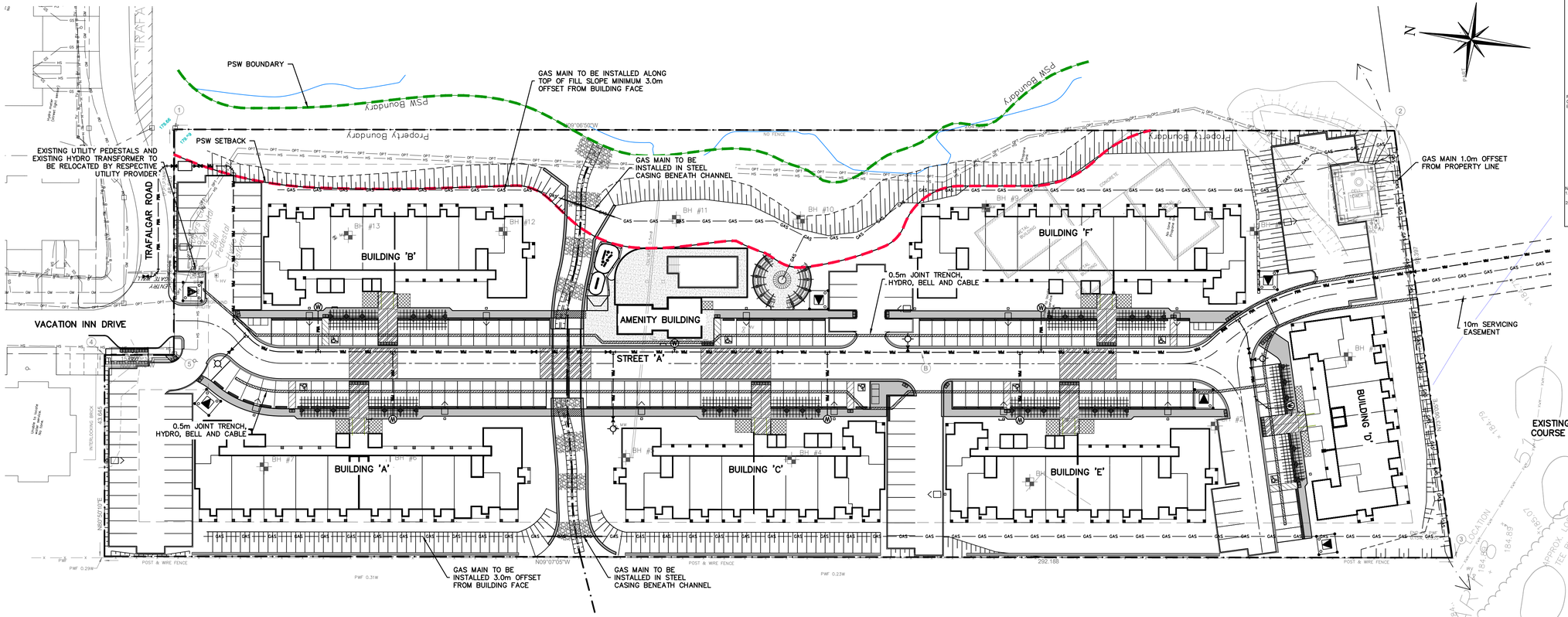
GENERAL NOTES
1. ALL WORK TO BE PERFORMED IN DRY DEWATERED CONDITIONS USING APPROVED WATER MANAGEMENT PLAN.
2. NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30 METRES OF WATERCOURSE.
3. ALL SEDIMENT & EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO EXCAVATION WORKS COMMENCING.
4. ALL TEMPORARY SOIL OR DIRT TO BE STOCKPILED PER DESIGNATED AREAS.
5. FLOW INFORMATION PROVIDED HEREIN CONCERNING CRANBERRY MARSH OUTLET FOR CONTRACTOR USE ONLY.
6. 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.



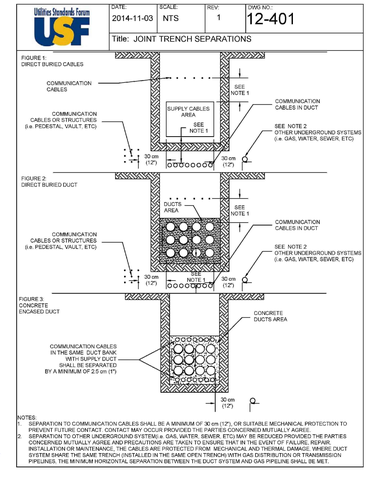
KEY PLAN
SCALE: N.T.S.

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.



10 0m 10 20 30 40
SCALE: 1:500



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

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER — K. A. MORRIS — PROVINCE OF ONTARIO

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

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

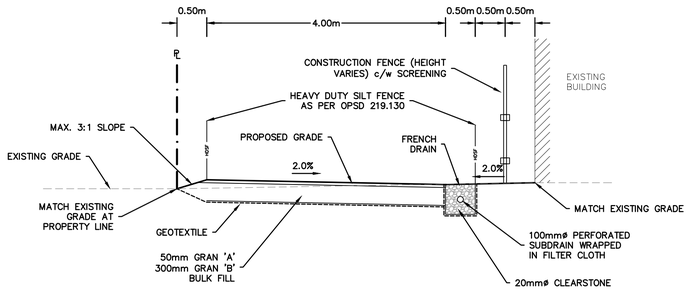
Drawing: COMPOSITE UTLITY PLAN

CROZIER CONSULTING ENGINEERS

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

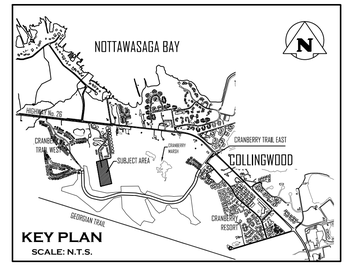
J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C110 CUP.dwg, C110, 2024-12-20 4:17:11 PM, lwaters

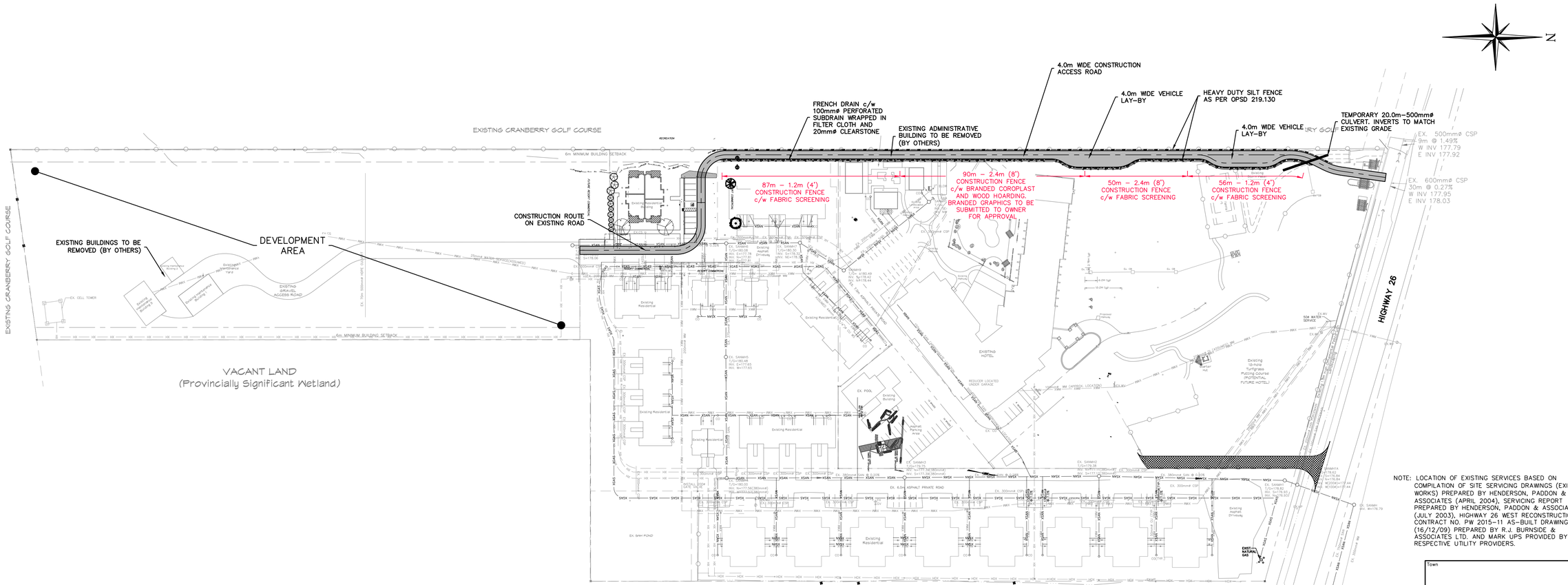
TYPICAL CONSTRUCTION ACCESS DETAIL
SCALE 1:50

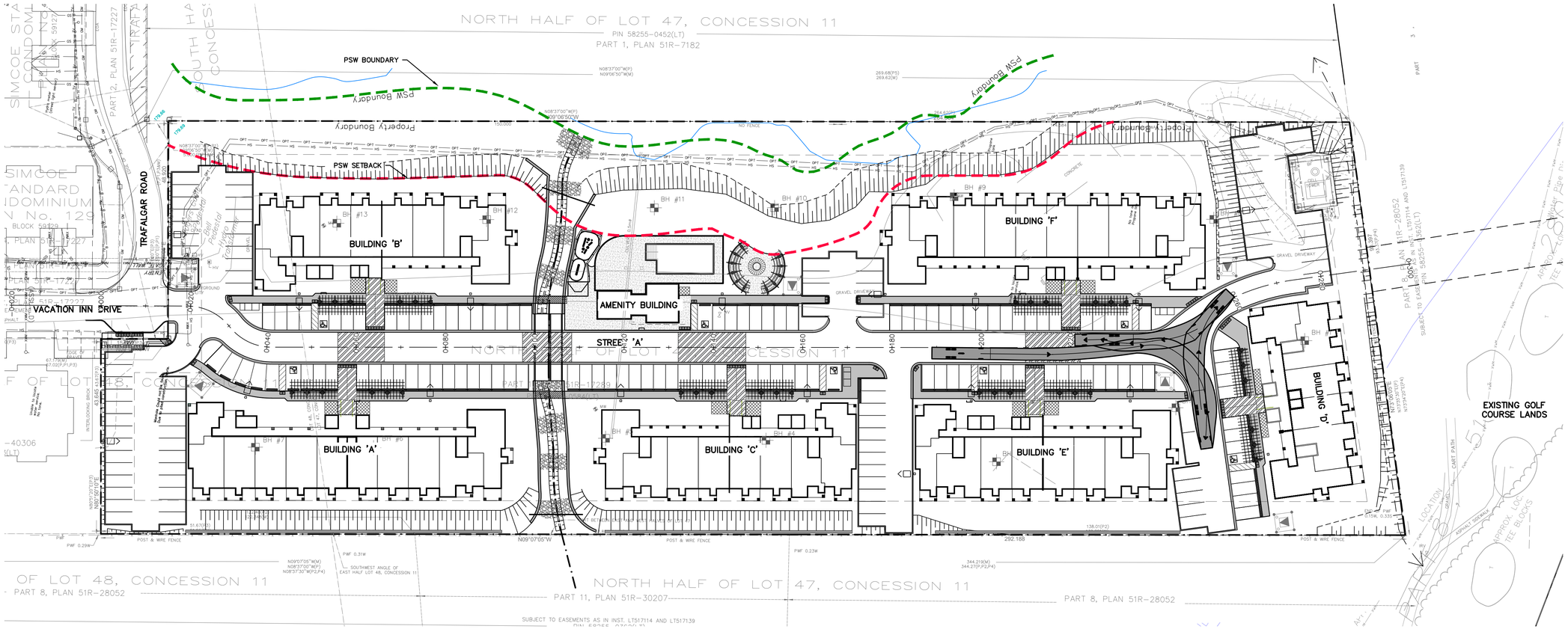


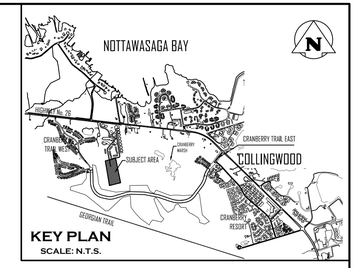
LEGEND

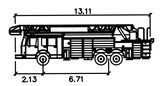
- EX. FENCE
- EX. WATERMAIN
- EX. FIRE HYDRANT & VALVE
- EX. SANITARY SEWER & MANHOLE
- EX. OVERHEAD HYDRO
- EX. HYDRO
- EX. GAS MAIN
- EX. HYDRO POLE
- EX. SWALE
- PR. HEAVY DUTY SILT FENCE AS PER OPSD 219.130
- PR. CONSTRUCTION FENCE
- PR. 100mmø PERFORATED SUBDRAIN
- PR. CULVERT
- PR. CONSTRUCTION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




N
EXISTING CRANBERRY GOLF COURSE
6m MINIMUM BUILDING SETBACK
FRENCH DRAIN c/w 100mmø PERFORATED SUBDRAIN WRAPPED IN FILTER CLOTH AND 20mmø CLEARSTONE
EXISTING ADMINISTRATIVE BUILDING TO BE REMOVED (BY OTHERS)
4.0m WIDE CONSTRUCTION ACCESS ROAD
4.0m WIDE VEHICLE LAY-BY
HEAVY DUTY SILT FENCE AS PER OPSD 219.130
4.0m WIDE VEHICLE LAY-BY
TEMPORARY 20.0m-500mmø CULVERT. INVERTS TO MATCH EXISTING GRADE
87m – 1.2m (4') CONSTRUCTION FENCE c/w FABRIC SCREENING
90m – 2.4m (8') CONSTRUCTION FENCE c/w BRANDED COROPLAST AND WOOD HOARDING. BRANDED GRAPHICS TO BE SUBMITTED TO OWNER FOR APPROVAL
50m – 2.4m (8') CONSTRUCTION FENCE c/w FABRIC SCREENING
56m – 1.2m (4') CONSTRUCTION FENCE c/w FABRIC SCREENING
CONSTRUCTION ROUTE ON EXISTING ROAD
EXISTING BUILDINGS TO BE REMOVED (BY OTHERS)
DEVELOPMENT AREA
EXISTING GRAVEL ACCESS ROAD
EX. CELL TOWER
EXISTING CRANBERRY GOLF COURSE
6m MINIMUM BUILDING SETBACK
VACANT LAND
(Provincially Significant Wetland)
EX. 500mmø CSP
9m @ 1.49%
W INV 177.79
E INV 177.92
EX. 600mmø CSP
30m @ 0.27%
W INV 177.95
E INV 178.03
HIGHWAY 26
EX. POOL
EX. 8.0m ASPHALT PRIVATE ROAD
EX. 300mmø CSP
EX. 380mmø SAN @ 0.50%
EX. SANMH1 T/G=180.50 INV. SE=178.30
EX. SANMH2 T/G=180.49 INV. S=178.42 INV. N=178.44
EX. SANMH3 T/G=180.68 INV. E=177.83 INV. W=177.65
EX. SANMH4 T/G=180.00 INV. N=177.56(380mmø) INV. W=177.51(380mmø)
EX. SANMH5 T/G=178.82 INV. E=176.64 INV. W=176.84
EX. SANMH6 T/G=178.83 INV. S=176.93 INV. N=176.97
EX. SANMH7 INV. W=176.79
EX. SWMH1 T/G=180.00 INV. E=177.50(300mmø) INV. W=177.44(300mmø)
EX. SWMH2 INV. E=177.44(300mmø) INV. W=177.44(300mmø)
EX. SWMH3 INV. E=177.38(300mmø) INV. W=177.38(300mmø)
EX. SWMH4 INV. E=177.32(300mmø) INV. W=177.32(300mmø)
EX. SWMH5 INV. E=177.26(300mmø) INV. W=177.26(300mmø)
EX. SWMH6 INV. E=177.20(300mmø) INV. W=177.20(300mmø)
EX. SWMH7 INV. E=177.14(300mmø) INV. W=177.14(300mmø)
EX.







Aerial Fire Truck

	meters
Width	: 2.59
Track	: 2.59
Lock to Lock Time	: 6.0
Steering Angle	: 33.3

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER K. A. MORRIS Dec. 20/24 PROVINCE OF ONTARIO

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

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: VEHICLE MOVEMENT 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 C112

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C112 TRN.dwg, C112, 2024-12-20 4:18:19 PM, lwaters

CONSTRUCTION NOTES:

A) GENERAL – CONSTRUCTION

1. 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.
2. 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).
3. PIPE COVER AND BEDDING TO BE GRANULAR 'A' (MINIMUM 150mm DEPTH COMPACTED TO A MINIMUM 95%SPMDD).
4. ALL TOPSOIL AND EARTH EXCAVATION TO BE STOCK PILED OR REMOVED TO AN APPROVED SITE AS DIRECTED BY ENGINEER.
5. 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.
6. ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
8. 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.
9. ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
10. DISTURBED AREAS OUTSIDE THE DEVELOPABLE LANDS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
11. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND CO-ORDINATE CONSTRUCTION ACCORDINGLY.
12. ALL ROCK EXCAVATION PER OPSS-206.
13. ALL EXCAVATION MUST BE CARRIED OUT IN FULL COMPLIANCE WITH MOST RECENT GUIDELINES OF OHSA. NATIVE SOILS ARE CLASSIFIED AS TYPE 3 SOIL.
14. IMPORTED FILL MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER TO BE COMPACTED TO 98% SPMDD TO BE USED FOR FILL PADS FOR BUILDINGS ABOVE UNDERSIDE OF FOOTING ELEVATION. REFER TO GEOTECHNICAL REPORT.

B) ROADS

1. SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% SPMDD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING GRANULAR 'B'.
2. 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.
3. CONDO ROADWAY TO BE CONSTRUCTED WITH MINIMUM 450mm GRANULAR 'B' TYPE 1, 150mm GRANULAR 'A', 50mm HL8 BASE COURSE ASPHALT, & 40mm HL3 SURFACE COURSE ASPHALT.
4. SELECT SUBGRADE MATERIAL, OR IMPORTED GRANULAR 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.
5. ALL GRANULARS AND ASPHALT MATERIALS AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 314 AND OPSS 310.
6. 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.
7. STOP SIGNS AND STREET SIGNS TO TOWN STANDARDS (DETAIL DWG NO. 401)
8. REINSTATEMENT OF ALL DISTURBED BOULEVARDS TO INCLUDE REGRADING, 150mm TOPSOIL AND SOD TO OPSS 802 AND 803.
9. 100mm ø PIPE SUBDRAINS SHALL BE PROVIDED UNDER EDGE OF PAVEMENT ON LOWER SIDE OF THE SUPER-ELEVATED ROAD.
10. 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.
11. SUBDRAINS TO BE PERFORATED OTHER THAN THE 2.0m SECTION IMMEDIATELY UPSTREAM OF ALL STRUCTURES WHICH SHALL BE NON-PERFORATED.
12. ASPHALT WALKWAY TO BE CONSTRUCTED WITH MINIMUM 200mm GRANULAR 'A' AND 50mm HL3 ASPHALT IN ACCORDANCE WITH OPSS 311.
13. CONCRETE SIDEWALK TO BE CONSTRUCTED PER OPSD 310.010 WITH MINIMUM 200mm GRANULAR 'A' BASE.
14. TACTILE WALKING SURFACE INDICATORS AT WALKWAY CROSSINGS AND ACCESSIBLE PARKING STALL AISLES AS PER OPSD 310.039 AND OPSD 310.033.
15. PARKING STALLS TO BE COMPLETE WITH PRECAST CURB WHEEL STOPS.

C) SANITARY SEWERS

1. M.H.'S TO OPSD – 701.010, 701.030, & 704.010.
2. BENCHING TO OPSD – 701.021.
3. STEPS TO OPSD – 405.010.
4. BACKFILL AND EMBEDMENT TO OPSD – 802.010 CLASS 'B', GRANULAR 'A' BEDDING.
5. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL, AS APPROVED BY GEOTECHNICAL ENGINEER, OR IMPORTED GRANULAR MATERIAL.
6. FRAMES AND COVERS TO OPSD – 401.01 TYPE 'A' (CLOSED COVER).
7. SERVICE CONNECTIONS TO OPSD – 1006.020 (125mm), GRANULAR 'A' BEDDING, TERMINATE AT SERVICING CORRIDOR LIMITS, 125 X 100 REDUCER, PLUG AND 2X4 MARKER POST PAINTED GREEN. MINIMUM GRADE TO BE 2.0%, MAXIMUM 8.0%.
8. RADIUS BENDS TO BE USED ON SANITARY SEWER CONNECTIONS WHERE THE ANGLE OF CONNECTION BETWEEN THE SERVICE AND SEWER EXCEEDS 90°.
9. 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).
10. MAINTENANCE HOLES FRAMES TO BE SET TO BASE COURSE ASPHALT ELEVATION AND RAISED BY ADDING RISER RINGS PRIOR TO PLACING SURFACE COURSE ASPHALT.
11. PIPE SUPPORT AT MAINTENANCE HOLES AS PER OPSD 708.020.
12. ALL MAINTENANCE HOLES, UNLESS EXPRESSLY IDENTIFIED ARE 1200mmø.
13. 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.
14. SANITARY SEWER – SDR 35 PVC.
15. SANITARY SERVICE – SDR 28 PVC – 125mm FOR RESIDENTIAL UNITS AND 150mmø FOR MIDRISE BUILDINGS AS PER OPSD 1006.020 SEWER SERVICE CONNECTION FOR FLEXIBLE PIPE.
16. FROST STRAPS PER OPSD 701.100.
17. CLAY SEEPAGE PLUGS (0.5M THICK) TO BE PLACED ALONG PIPE BETWEEN MAINTENANCE HOLES.

D) WATERMAINS

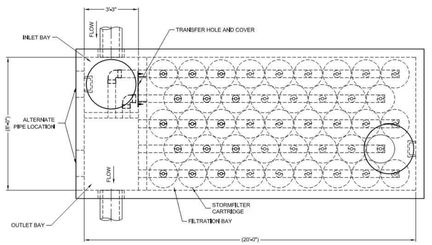
1. BACKFILL AND EMBEDMENT TO OPSD – 802.010 CLASS 'B', GRANULAR 'A' EMBEDMENT.
2. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL, AS APPROVED BY GEOTECHNICAL ENGINEER, OR IMPORTED GRANULAR MATERIAL.
3. THRUST BLOCKS TO OPSD – 1103.010 AND 1103.020 WHERE SUITABLE SOILS ARE ENCOUNTERED.
4. SERVICE CONNECTIONS TO OPSD – 1104.010, 100mm GRANULAR 'A' EMBEDMENT AND COVER OVER PIPE. TERMINATE AT SERVICING CORRIDOR LIMITS C/W CURB STOP AND BOX.
5. HYDRANTS TO OPSD – 1105.010 DRAIN PLUGS SHALL BE INSTALLED WHERE HIGH WATER TABLE IS ENCOUNTERED.
6. 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).
7. MINIMUM COVER ON WATERMAIN AND SERVICES TO BE 1.7m.
8. GATE VALVES, BENDS AND HYDRANT LEADS AND FITTINGS TO BE CONNECTED WITH ROLMAC GRIPPER RING RESTRAINING GLANDS.
9. CLEARANCE BETWEEN WATERMAINS 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.
10. ALL SERVICES TO BE DIRECT TAPPED.
11. 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.
12. 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 CONTRACTORS COST. PROPOSED WATERMAINS ARE NOT TO BE CONNECTED TO EXISTING WATERMAINS UNTIL BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED & TO THE SATISFACTION OF THE TOWN.
13. COMPLETE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH REQUIREMENTS OF O. REG. 459/00 & SATISFACTION OF TOWN OF COLLINGWOOD WATER DEPARTMENT.
14. WATERMAIN – CLASS 52 OR PRESSURE CLASS 350 CEMENT LINED DUCTILE IRON OR APPROVED EQUIVALENT.
15. SINGLE WATERMAIN SERVICES – 19mmø TYPE 'K' COPPER PIPE.
16. 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.
17. MAIN STOPS TO 301-A4H4, BALL STYLE, AWWA THREAD BY COMPRESSION CAMBRIDGE BRASS.
18. CURB STOPS TO 203-H3H3, BALL STYLE WITH DRAIN. COMPRESSION JOINT BY CAMBRIDGE BRASS.
19. A CURB STOP & EXTENSION SERVICE BOX & MAIN STOP MUST BE INSTALLED ON EACH SERVICE USING COMPRESSION JOINT FITTINGS.
20. 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.
21. SERVICE BOXES TO NUMBER 2-U-1 CLOW OR MUELLER, 24" BLACK ROADS STRAIGHT C/W CAP PAINTED BLUE.
22. ALL SERVICES SHALL BE METERED. METERS TO BE COMPLETE WITH REMOTE READOUT OR RADIO READ AS DETERMINED BY THE TOWN OF COLLINGWOOD WATER DEPARTMENT.
23. HYDRANTS – CENTURY NUMBER 1, OPEN LEFT WITH 2 CSA HOSE PORTS, ONE STORZ 4" PUMPER PORT, AND A BREAK AWAY TYPE 6" MJ BASE.
24. VALVES – RESILIENT SEATED, RSGV MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5-SL-48 SLIDING VALVE BOX C/W CAP PAINTED BLUE.
25. MECHANICAL JOINT DUCTILE FITTINGS – AWWA/ANSI C153/A21.53.
26. HYDRANTS TO BE INSTALLED C/W HYDRANT MARKER STAKES 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.
27. 50mmø WATER SERVICES – TYPE 'K' COPPER. 100mmø SERVICES WILL BE DUCTILE IRON.
28. ALL VALVES TO BE OPERATED BY THE TOWN OF COLLINGWOOD WATER DEPARTMENT. CONTRACTOR TO PROVIDE MIN. 48 HOUR NOTIFICATION FOR REQUEST.
29. HYDRANTS ARE TO BE 1.67m (5'6") LONG. MAKE-UP PIECES, IF REQUIRED, ARE TO BE INSTALLED BELOW THE HYDRANT.
30. ALL WATERMAIN FITTINGS TO BE LEAD FREE.
31. MECHANICAL JOINT RESTRAINTS TO BE USED DURING TRANSITION OF WATERMAIN INSTALLATION IN NATIVE SOILS TO ENGINEERED FILL. MECHANICAL JOINT RESTRAINTS TO BE MEGA-LUG OR APPROVED EQUAL. FINAL LIMITS TO BE FIELD DECISION.
32. PREMISE PROTECTION BACKFLOW PREVENTION DEVICES AS PER CSA B64.10-11/B64.10.1-11, OBC AND THE TOWN WATER BY-LAW SHALL BE PROVIDED FOR APARTMENT BUILDINGS AND RECREATIONAL FACILITIES.
33. THE TOWN SHALL HAVE ONE WATER METER, CONNECTED TO ONE WATER BILL. ADDITIONAL METERS CAN BE ADDED INTERNALLY AS REQUIRED.

E) STORM SEWERS

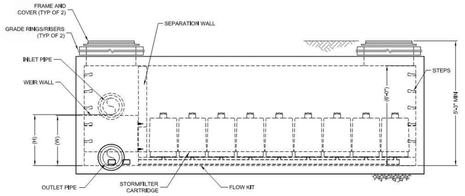
1. MH TO OPSD 701.010 AND DCBMH TO OPSD – 701.011, C/W SUMP UNLESS NOTED OTHERWISE.
2. STEPS TO OPSD 405.010.
3. MH FRAMES AND GRATES TO OPSD – 401.01 OPEN COVER.
4. DICB'S TO OPSD – 705.030, 705.040.
5. DCBMH FRAMES AND GRATES TO OPSD – 400.020
6. PIPE SUPPORT AT DCBMH'S TO OPSD – 708.020.
7. DCB LEADS – 300mm ø DOUBLE TO OPSD – 708.010, 708.030.
8. PROTECTION DURING CONSTRUCTION TO OPSD – 808.010.
9. BACKFILL AND EMBEDMENT TO OPSD – 802.010 (FLEXIBLE PIPE) CLASS 'B', GRANULAR 'A' EMBEDMENT OR OPSD – 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
10. BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.
11. 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 GASKETTED BELL AND SPIGOT SYSTEM.
12. FROST STRAPS PER OPSD 701.100.
13. STORM SERVICES TO BE 100mmø PVC SDR28 COLORED WHITE FOR TOWNHOUSE UNITS AND 200mmø PVC SDR35 FOR MIDRISE BUILDINGS.
14. STORM SERVICES CONNECTING TO CONCRETE STORM SEWERS TO BE MADE USING CORE METHOD AND PRE-MANUFACTURED BOOT.
15. STORM SERVICES TO BE MARKED WITH A 2"X4" STAKE PAINTED WHITE.
16. MINIMUM COVER ON STORM SEWER AND SERVICE TO BE 1.5m AS PER TOWN OF COLLINGWOOD STANDARDS.

STORMFILTER 2

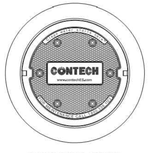
SCALE: N.T.S.



PLAN



ELEVATION



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

STORMFILTER DESIGN TABLE

- THE 8' x 20' PEAK DIVERSION STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA SPECIFIC FLOW RATE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.
- THE PEAK DIVERSION STORMFILTER IS AVAILABLE IN A LEFT INLET (AS SHOWN) OR RIGHT INLET CONFIGURATION.
- ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.

CARTRIDGE HEIGHT	27"		18"		LOW DROP	
SYSTEM HYDRAULIC DROP (H= REQ'D, MIN.)	3.05'		2.3'		1.8'	
HEIGHT OF WEIR (W)	3.00'		2.25'		1.75'	
TREATMENT BY MEDIA SURFACE AREA	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	10	5

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	*
WATER QUALITY FLOW RATE (cfs)	*
PEAK FLOW RATE (cfs)	*
RETURN PERIOD OF PEAK FLOW (yrs)	*
# OF CARTRIDGES REQUIRED	*
CARTRIDGE FLOW RATE	*
MEDIA TYPE (CSF, PERLITE, ZPG)	*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE	*	*	*
OUTLET PIPE	*	*	*
INLET BAY RIM ELEVATION			*
FILTER BAY RIM ELEVATION			*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

PERFORMANCE SPECIFICATION
FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON-ACTUATED, RADIAL FLOW, AND SELF CLEANING. **RADIAL MEDIA DEPTH SHALL BE 7-INCHES.** FILTER MEDIA CONTACT TIME SHALL BE AT LEAST **37 SECONDS.**
SPECIFIC FLOW RATE SHALL BE **2 GPM/SF (MAXIMUM).** SPECIFIC FLOW RATES IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF.). MEDIA VOLUMETRIC FLOW RATE SHALL BE **4 GPM/CF OF MEDIA (MAXIMUM).**

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE, www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
5. STRUCTURE SHALL MEET AASHTO H20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

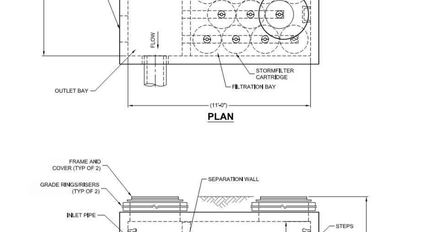
INSTALLATION NOTES
A. ANY SUBBASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
F. CONTRACTOR TO REMOVE THE TRANSFER HOLE COVER WHEN THE SYSTEM IS BROUGHT ONLINE.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
(800)338-1122 (513)645-7000 (513)645-7993 FAX

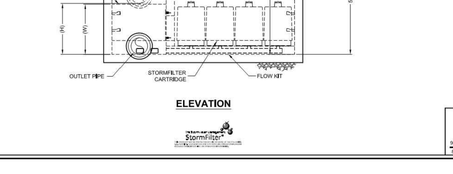
THE STORMWATER MANAGEMENT STORMFILTER
8' x 20' PEAK DIVERSION STORMFILTER
STANDARD DETAIL

STORMFILTER 1

SCALE: N.T.S.



PLAN



ELEVATION

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

STORMFILTER DESIGN TABLE

- THE 8' x 11' PEAK DIVERSION STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA SPECIFIC FLOW RATE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.
- THE PEAK DIVERSION STORMFILTER IS AVAILABLE IN A LEFT INLET (AS SHOWN) OR RIGHT INLET CONFIGURATION.
- ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.

CARTRIDGE HEIGHT	27"		18"		LOW DROP	
SYSTEM HYDRAULIC DROP (H= REQ'D, MIN.)	3.05'		2.3'		1.8'	
HEIGHT OF WEIR (W)	3.00'		2.25'		1.75'	
TREATMENT BY MEDIA SURFACE AREA	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	10	5

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	*
WATER QUALITY FLOW RATE (cfs)	*
PEAK FLOW RATE (cfs)	*
RETURN PERIOD OF PEAK FLOW (yrs)	*
# OF CARTRIDGES REQUIRED	*
CARTRIDGE FLOW RATE	*
MEDIA TYPE (CSF, PERLITE, ZPG)	*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE	*	*	*
OUTLET PIPE	*	*	*
INLET BAY RIM ELEVATION			*
FILTER BAY RIM ELEVATION			*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

PERFORMANCE SPECIFICATION
FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON-ACTUATED, RADIAL FLOW, AND SELF CLEANING. **RADIAL MEDIA DEPTH SHALL BE 7-INCHES.** FILTER MEDIA CONTACT TIME SHALL BE AT LEAST **37 SECONDS.**
SPECIFIC FLOW RATE SHALL BE **2 GPM/SF (MAXIMUM).** SPECIFIC FLOW RATES IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF.). MEDIA VOLUMETRIC FLOW RATE SHALL BE **4 GPM/CF OF MEDIA (MAXIMUM).**

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE, www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
5. STRUCTURE SHALL MEET AASHTO H20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

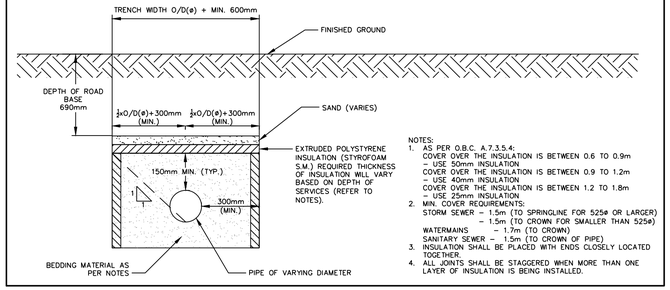
INSTALLATION NOTES
A. ANY SUBBASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
F. CONTRACTOR TO REMOVE THE TRANSFER HOLE COVER WHEN THE SYSTEM IS BROUGHT ONLINE.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
(800)338-1122 (513)645-7000 (513)645-7993 FAX

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

INSULATION FOR VARIOUS INFRASTRUCTURE

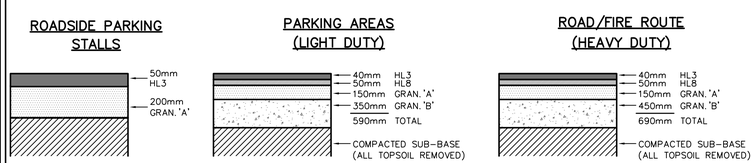
SCALE: N.T.S.



NOTES:
1. AS PER O.B.C. A.7.3.5.4:
   - USE 50mm INSULATION
   COVER OVER THE INSULATION IS BETWEEN 0.6 TO 0.9m
   - USE 50mm INSULATION
   COVER OVER THE INSULATION IS BETWEEN 0.9 TO 1.2m
   - USE 40mm INSULATION
   COVER OVER THE INSULATION IS BETWEEN 1.2 TO 1.8m
   - USE 25mm INSULATION
2. MIN. COVER REQUIREMENTS:
   STORM SEWER – 1.5m (TO SPRINGLINE FOR 525ø OR LARGER)
   – 1.5m (TO CROWN FOR SMALLER THAN 525ø)
   WATERMAINS – 1.7m (TO CROWN)
   SANITARY SEWER – 1.5m (TO CROWN OF PIPE)
3. INSULATION SHALL BE PLACED WITH ENDS CLOSELY LOCATED TOGETHER.
4. ALL JOINTS SHALL BE STAGGERED WHEN MORE THAN ONE LAYER OF INSULATION IS BEING INSTALLED.

PAVEMENT STRUCTURE

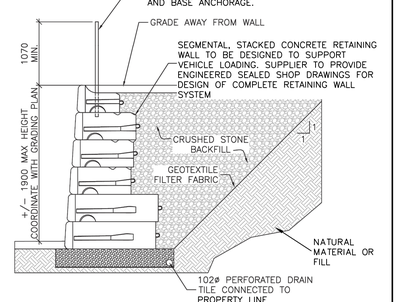
SCALE: N.T.S.



NOTE:
REFER TO CONSTRUCTION NOTES FOR DETAILS ON COMPACTION. PAVEMENT STRUCTURE BASED ON GEOTECHNICAL CONSULTANTS RECOMMENDATIONS.

TYPICAL REDI-ROCK RETAINING WALL DETAIL – 1.9m MAX. HEIGHT

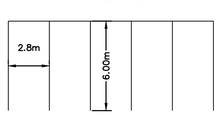
SCALE: N.T.S.



NOTES:
1. CONTRACTOR TO PROVIDE SEALED SHOP DRAWINGS FOR PROPOSED REDI-ROCK RETAINING WALL (BY APPROVED DESIGNER) AND PROPOSED VEHICLE BARRICADE FOR REVIEW AND ACCEPTANCE.
2. NO ENCROACHMENT IS ALLOWED ONTO ADJACENT PRIVATE PROPERTIES DURING CONSTRUCTION.
3. CONTRACTOR TO SHORE AND BRACE CUT-SLOPES DURING INSTALLATION OF RETAINING WALL.
4. INSTALLATION OF RETAINING WALL SHALL BE REVIEWED AND APPROVED BY QUALIFIED GEOTECHNICAL ENGINEER OR HIS/HER REPRESENTATIVE.
5. BASE TO BE NATIVE MATERIAL FREE OF ORGANICS AND DELETERIOUS MATERIALS AS DIRECTED BY GEOTECHNICAL ENGINEER.
6. CONTRACTOR TO LOCATE AND IDENTIFY ALL EXISTING AND PROPOSED SERVICES WITH

TYPICAL PARKING STALL DETAIL

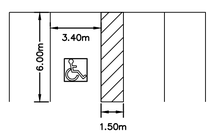
SCALE: N.T.S.



PARKING LINES TO BE PAINTED WHITE, 100mm THICK.

TYPICAL TYPE 'A' BARRIER FREE PARKING STALL DETAIL

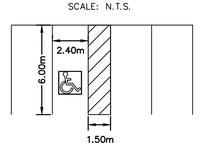
SCALE: N.T.S.



PARKING LINES TO BE PAINTED WHITE, 100mm THICK.

TYPICAL TYPE 'B' BARRIER FREE PARKING STALL DETAIL

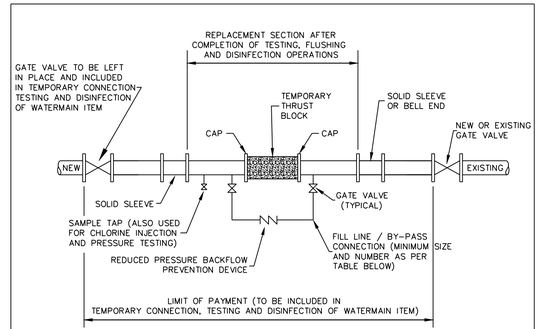
SCALE: N.T.S.



PARKING LINES TO BE PAINTED WHITE, 100mm THICK.

TEMPORARY CONNECTION FOR WATERMAIN

SCALE: N.T.S.



TYPICAL TEMPORARY CONNECTION FOR WATERMAINS

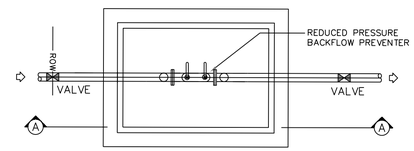
NTS

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

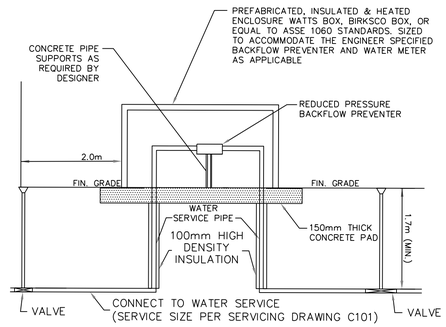
REQUIRED FLOW AND OPENINGS TO FLUSH PIPELINES (276 kPa/40 PSI RESIDUAL PRESSURE IN WATERMAIN)

TYPICAL WATER CHAMBER WITH BACKFLOW PREVENTER

SCALE: N.T.S.



PLAN



SECTION A–A

NOTE

1. TO BE USED ONLY WHERE A BACKFLOW PREVENTER IS REQUIRED AND INSTALLATION WITHIN A BUILDING IS NOT POSSIBLE.
2. CONCRETE PIPE SUPPORT REQUIRES BOND BREAKER BETWEEN PIPE AND SUPPORT.
3. ALL PIPING/APPURTENANCES/CONSTRUCTION SHALL CONFORM TO CURRENT OPSS AND ONTARIO BUILDING CODE STANDARDS.
4. TOWN TO PROVIDE A SPOOL PIECE ON SITE FOR METER REMOVAL AND MAINTENANCE
5. ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.
6. ALL HOLES AND PIPE CONNECTIONS TO BE MADE WATERTIGHT USING "LINK–SEAL" PIPE TO WALL PENETRATION SEALS OR APPROVED EQUIVALENT (WHERE APPLICABLE)
7. CHAMBER SIZES SHALL VARY FOR EQUIPTMENT SIZES AS PER MANUFACTURER'S SPECIFICATION AND TO THE SATISFACTION OF THE TOWN.

Town

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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
1	ISSUED FOR 1st ENGINEERING SUBMISSION	02/04/2019
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

Engineer: LICENSED PROFESSIONAL ENGINEER K. A. MORRIS Dec. 20/24 PROVINCE OF ONTARIO

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

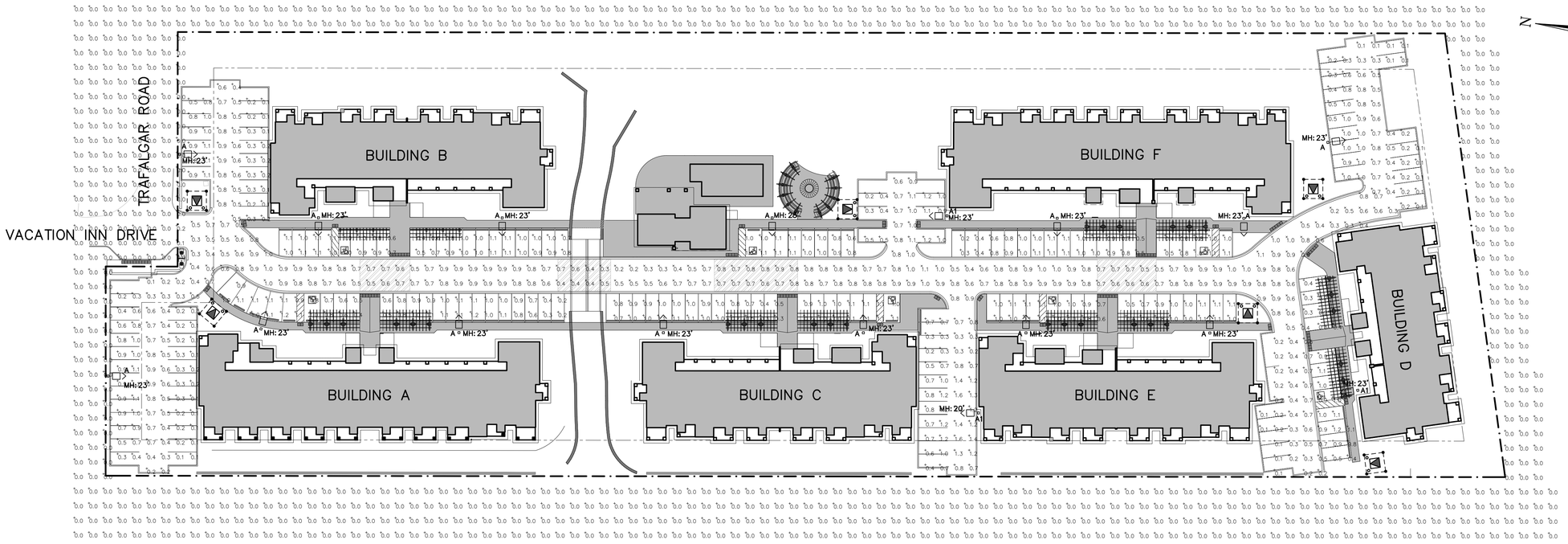
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

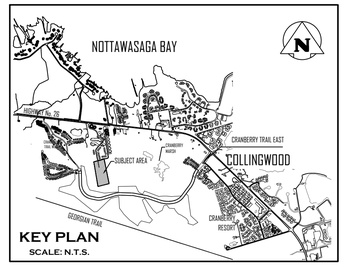
Drawing: CONSTRUCTION NOTES AND STANDARD DETAILS

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
L.W.	L.W.	1535–4897
Check By	Check By	Scale / Drawing
K.M.	R.A.	AS NOTED / C113.B

J:\1500\1535-Brandy Lane Corp\4897-Georgian Bay Hotel South Block\CAD\Civil_Sheets\4897_C113 DET.dwg, C113.B, 2024-12-20 4:18:38 PM, lwaters





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

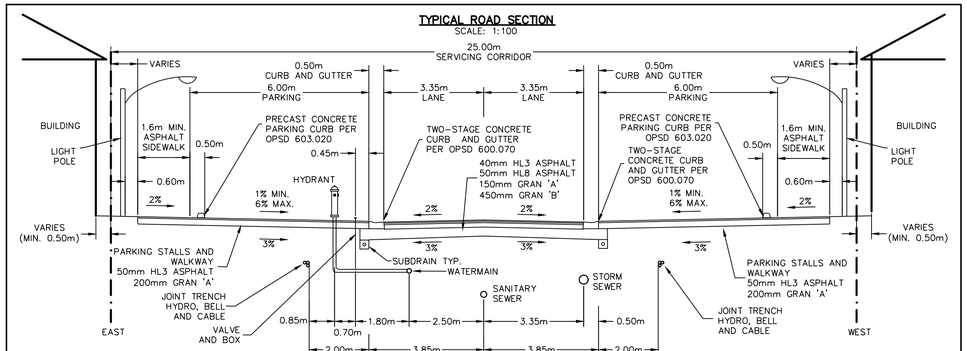
SITE PLAN – PHOTOMETRIC

SCALE: 1:500

STATISTICS SCHEDULE						TARGET VALUES		
DESCRIPTION	SYMBOL	AVG	MAX	MIN	AVG/MIN	ROADWAY TYPE CLASSIFICATION	AVG	AVG/MIN
RIGHT OF WAY	×	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

TYPICAL ROAD SECTION

SCALE: 1:100



NOTES:
1. COVER ON STORM, SANITARY AND WATERMAIN AS PER DESIGN CRITERIA, UTILITY CORRIDOR SHALL HAVE MINIMUM COVER OF 1.0m.
2. MINIMUM PAVEMENT AND ROAD STRUCTURE DESIGN AS PER TOWN DESIGN CRITERIA OR AS PER GEOTECHNICAL INVESTIGATION RECOMMENDATION.
3. SUBDRAINS TO BE INSTALLED AS PER OPSD 216.021.
4. 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.
5. GASMAIN TO BE INSTALLED IN THE REAR OF THE BUILDINGS.
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.

10 0m 10 20 30 40

SCALE: 1:500

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

Town

No.	ISSUE	DATE: MM/DD/YYYY
1	*NOT ISSUED FOR THIS SUBMISSION*	02/04/2019
2	*NOT ISSUED FOR THIS SUBMISSION*	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

Engineer

LICENSED PROFESSIONAL ENGINEER
P.B. WOZNIAK
100147225
Dec 20, 2024
1535-4897
PROVINCE OF ONTARIO

Engineer

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		Check By	P.W.	Scale 1:500	Drawing E100

TYPE A, A1

SOLID STATE AREA LIGHTING

RAZAR SERIES-LED

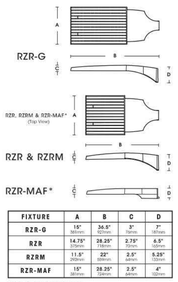
S P E C I F I C A T I O N S

PROJECT NAME:

PROJECT TYPE:

RAZAR

(**MODELS:** RZRM, RZR, RZR-G & RZR-MAF*) PATENT PENDING



FIXTURE	A	B	C	D
RZR-G	15" (381mm)	36.5" (927mm)	3" (76mm)	7" (178mm)
RZR	14.75" (375mm)	28.25" (718mm)	2.75" (70mm)	6.5" (165mm)
RZRM	11.5" (292mm)	22" (559mm)	2.5" (64mm)	5.25" (133mm)
RZR-MAF	15" (381mm)	28.25" (718mm)	2.5" (64mm)	4" (102mm)

*DLC PENDING AS OF 7/17

2018358

U.S. Architectural Lighting

660 West Avenue O, Palmdale, CA 93551
Phone (661) 233-0500 Fax (661) 233-0501
www.usalig.com

OPTICAL HOUSING
Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance <± .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 ribs 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.

PLEDOPTICS
Emitters (LED's) are arrayed 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 asymmetric 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 arrays. 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. Luminaire supplied with 20KV surge protector for field accessible installation.)

LED EMITTERS
High output LED's are utilized with drive currents ranging from 350mA to 1050mA. 70CRI 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 LPS 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) straps 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.

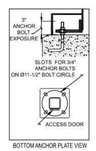
U.S. ARCHITECTURAL LIGHTING

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

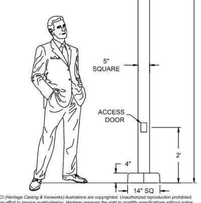
- [ ] APPROVED
- [ ] APPROVED AS NOTED
- [ ] REJECTED
- [ ] REVISE AND RESUBMIT

By _____

Date _____



BOTTOM ANCHOR PLATE VIEW



(C) 2010 HCI (Heritage Casting & Ironworks) illustrations are copyrighted. Unauthorized reproduction prohibited. In an ongoing effort to improve quality/design, Heritage reserves the right to modify specifications without notice.

Approval Drawing

TYPE A, A1

Pole Std: P422-2-5SQ-20

Pole: 5" square x .25 wall thickness aluminum tube welded to base plate.

Base Cover: Two piece cast aluminum attached to pole with stainless steel screws.

Tenon Sie: None

Anchor Bolts: 4 galvanized 3/4" x 24" long. Anchor bolts and template are supplied by HCI.
Bolts Circle: Ø11.5"

Finish: Electrostatically applied, thermoset polyester powder-coat finish.

Colour: RALXXXX

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

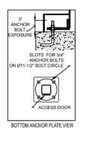
HCI Heritage Casting & Ironworks
1280 Fewster Drive, Mississauga, Ontario, Canada L4W 1A4
Tel: (905) 238-2648 Fax: (905) 238-9060
Toll Free Canada & USA 1-800-267-3175
E: sales@hcilighting.com WEB: www.hcilighting.com

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

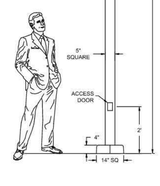
- [ ] APPROVED
- [ ] APPROVED AS NOTED
- [ ] REJECTED
- [ ] REVISE AND RESUBMIT

By _____

Date _____



BOTTOM ANCHOR PLATE VIEW



(C) 2010 HCI (Heritage Casting & Ironworks) illustrations are copyrighted. Unauthorized reproduction prohibited. In an ongoing effort to improve quality/design, Heritage reserves the right to modify specifications without notice.

Approval Drawing

TYPE A1

Pole Std: P422-2-5SQ-23

Pole: 5" square x .25 wall thickness aluminum tube welded to base plate.

Base Cover: Two piece cast aluminum attached to pole with stainless steel screws.

Tenon Sie: None

Anchor Bolts: 4 galvanized 3/4" x 24" long. Anchor bolts and template are supplied by HCI.
Bolts Circle: Ø11.5"

Finish: Electrostatically applied, thermoset polyester powder-coat finish.

Colour: RALXXXX

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 Heritage Casting & Ironworks
1280 Fewster Drive, Mississauga, Ontario, Canada L4W 1A4
Tel: (905) 238-2648 Fax: (905) 238-9060
Toll Free Canada & USA 1-800-267-3175
E: sales@hcilighting.com WEB: www.hcilighting.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-PLED-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:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE PHOTOCELLS AS REQUIRED. COORDINATE EXACT LOCATION & REQUIREMENTS WITH LIGHT MANUFACTURER.
2. ALL PROPOSED NEW FIXTURES ARE TO BE DARK SKY COMPLIANT.

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

Town

No.	ISSUE	DATE: MM/DD/YYYY
1	*NOT ISSUED FOR THIS SUBMISSION*	02/04/2019
2	*NOT ISSUED FOR THIS SUBMISSION*	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

Engineer

LICENSED PROFESSIONAL ENGINEER
P.B. WOZNIAK
100147225
Dec 20, 2004
PROVINCE OF ONTARIO
1535-4897

Engineer

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	Design By	Project	
T.S.D.	T.S.D.		1535-4897
Check By	Check By	Scale	Drawing
	P.W.	N.T.S.	E101

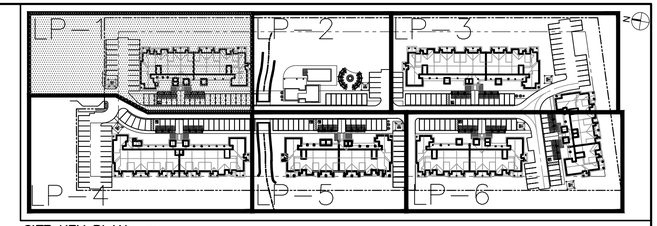
LEGEND

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

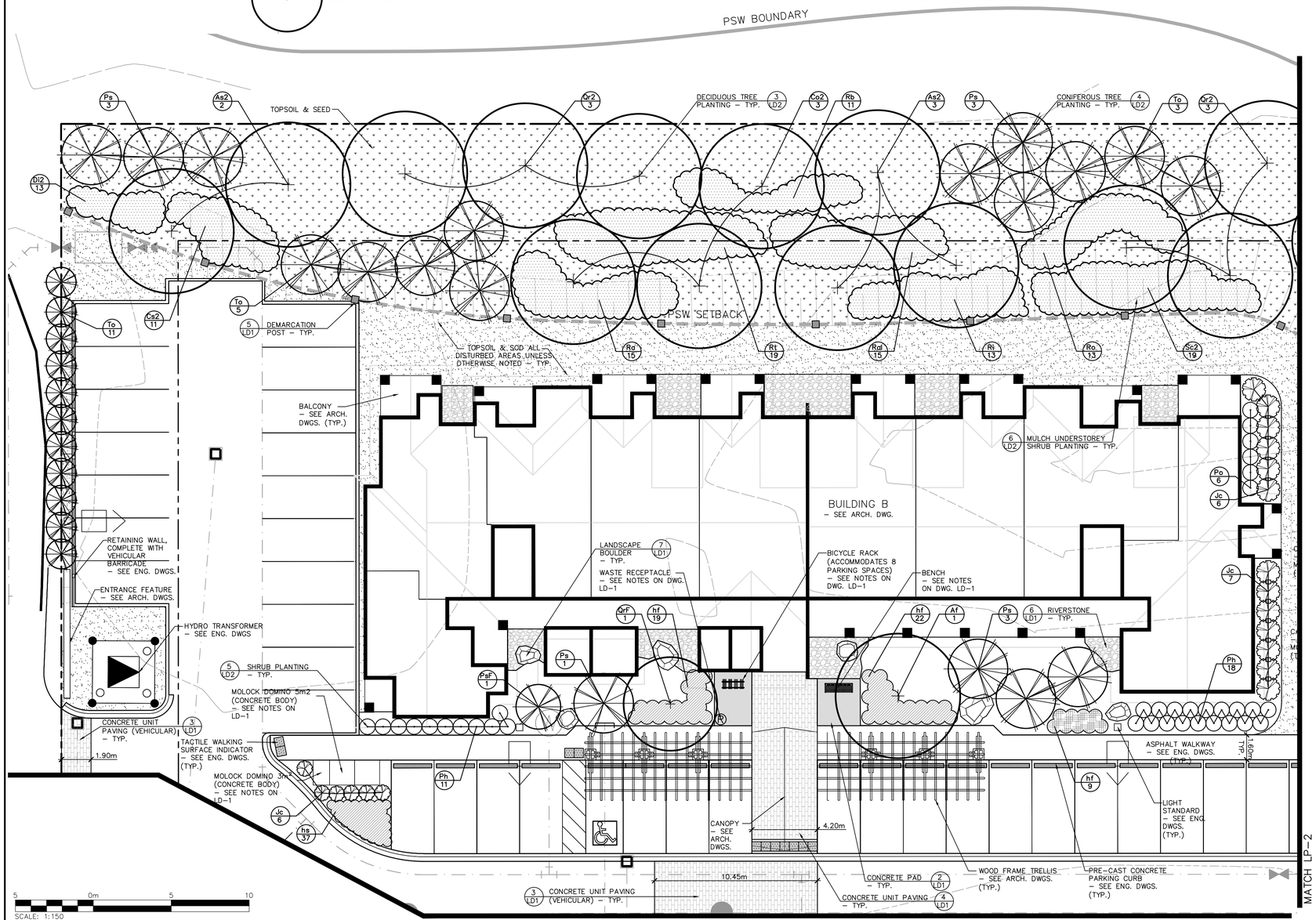
NOTES:

1. FOR PLANT LIST AND GENERAL PLANTING NOTES, REFER TO DRAWING LD–1.
2. TREE PITS OR PLANTING BEDS WITHIN 1.0m OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.
3. IRRIGATION SHALL BE PROVIDED WITHIN THE FEATURE PLANTING BEDS
4. 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
DECIDUOUS TREES						
As	Acer saccharum 'Legacy'	Legacy Sugar Maple	50mm cal.	W.B.		2
As2	Acer saccharum	Sugar Maple	40mm cal.	W.B.		13
Af	Acer x freemanii 'Jeffersred'	Autumn Blaze Maple	50mm cal.	W.B.		8
Am	Amelanchier laevis (Multi–stem)	Multi–stem Allegheny Serviceberry	200cm	W.B.		2
Ca	Carya ovata	Shagbark Hickory	50mm cal.	W.B.		6
Ca2	Carya ovata	Shagbark Hickory	40mm cal.	W.B.		9
Co	Celtis occidentalis	Common Hackberry	50mm cal.	W.B.		5
Co2	Celtis occidentalis	Common Hackberry	40mm cal.	W.B.		9
Gt	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	50mm cal.	W.B.		4
QrF	Quercus robur 'Fastigiata'	Columnar English Oak	50mm cal.	W.B.		9
Qr	Quercus rubra	Red Oak	50mm cal.	W.B.		5
Qr2	Quercus rubra	Red Oak	40mm cal.	W.B.		9
Ta	Tilia americana	Basswood	50mm cal.	W.B.		6
CONIFEROUS TREES						
Pg	Picea glauca	White Spruce	200cm	W.B.		31
Ps	Pinus strobus	Eastern White Pine	200cm	W.B.		50
PsF	Pinus strobus 'Fastigiata'	Columnar Eastern White Pine	200cm	W.B.		23
To	Thuja occidentalis	Eastern White Cedar	200cm	W.B.		63
ToE	Thuja occidentalis 'Emerald'	Emerald Cedar	200cm	W.B.		8
DECIDUOUS SHRUBS						
Cs	Cornus sericea	Red Osier Dogwood	50cm	3 gal.	1.5m o.c.	13
Cs2	Cornus sericea	Red Osier Dogwood	50cm	1 gal.	1.5m o.c.	35
Dl	Diervilla lonicera	Bush Honeysuckle	40cm	3 gal.	1.0m o.c.	7
Dl2	Diervilla lonicera	Bush Honeysuckle	40cm	1 gal.	1.0m o.c.	58
Po	Physocarpus opulifolius 'SMNPOTWG'	Tiny Wine Gold Ninebark	50cm	3 gal.	1.0m o.c.	58
Ph	Physocarpus opulifolius 'SMPOTW'	Tiny Wine Ninebark	50cm	3 gal.	1.0m o.c.	56
Ra	Ribes americanum	Wild Black Currant	50cm	1 gal.	1.5m o.c.	41
Ral	Rubus allegheniensis	Allegheny Blackberry	50cm	1 gal.	1.5m o.c.	28
Rb	Rosa blanda	Smooth Rose	50cm	1 gal.	1.5m o.c.	29
Rl	Rubus idaeus ssp. strigosus	Wild Red Raspberry	50cm	1 gal.	1.5m o.c.	22
Ro	Rubus occidentalis	Black Raspberry	50cm	1 gal.	1.5m o.c.	54
Rt	Rhus typhina	Staghorn Sumac	50cm	1 gal.	1.5m o.c.	41
Sc	Sambucus canadensis	Common Elderberry	50cm	3 gal.	1.5m o.c.	39
Sc2	Sambucus canadensis	Common Elderberry	50cm	1 gal.	1.5m o.c.	19
CONIFEROUS SHRUBS						
Jc	Juniperus chinensis sargentii 'Viridis'	Green Sargent Juniper	50cm	3 gal.	1.5m o.c.	80
PERENNIALS & GROUNDCOVERS						
ca	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass		1 gal.	0.75m o.c.	7
ep	Echinacea purpurea	Purple Coneflower		1 gal.	0.5m o.c.	17
gm	Geranium maculatum	Wild Geranium		1 gal.	0.5m o.c.	122
hs	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily		1 gal.	0.5m o.c.	319
hst	Heucherella x 'Sweet Tea'	Sweet Tea Foamy Bells		1 gal.	0.75m o.c.	64
hf	Hosta 'First Frost'	First Frost Hosta		1 gal.	0.75m o.c.	115
hh	Hosta 'High Society'	High Society Hosta		1 gal.	0.5m o.c.	68
Is	Iris pumila 'Banbury Ruffles'	Banbury Ruffles Standard Dwarf Bearded Iris		1 gal.	0.3m o.c.	42
ss	Sedum spectabile 'Autumn Joy'	Autumn Joy Stonecrop		1 gal.	0.5m o.c.	150

SEED MIX

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

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

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

NOTES:

1. ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
1.	ISSUED FOR 2nd SITE PLAN SUBMISSION	04/08/2021
2.	ISSUED FOR 3rd SITE PLAN SUBMISSION	01/14/2022
3.	ISSUED FOR 4th SITE PLAN SUBMISSION	03/10/2023
4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

STAMP: ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — 2024.12.20 OALA — MEMBER

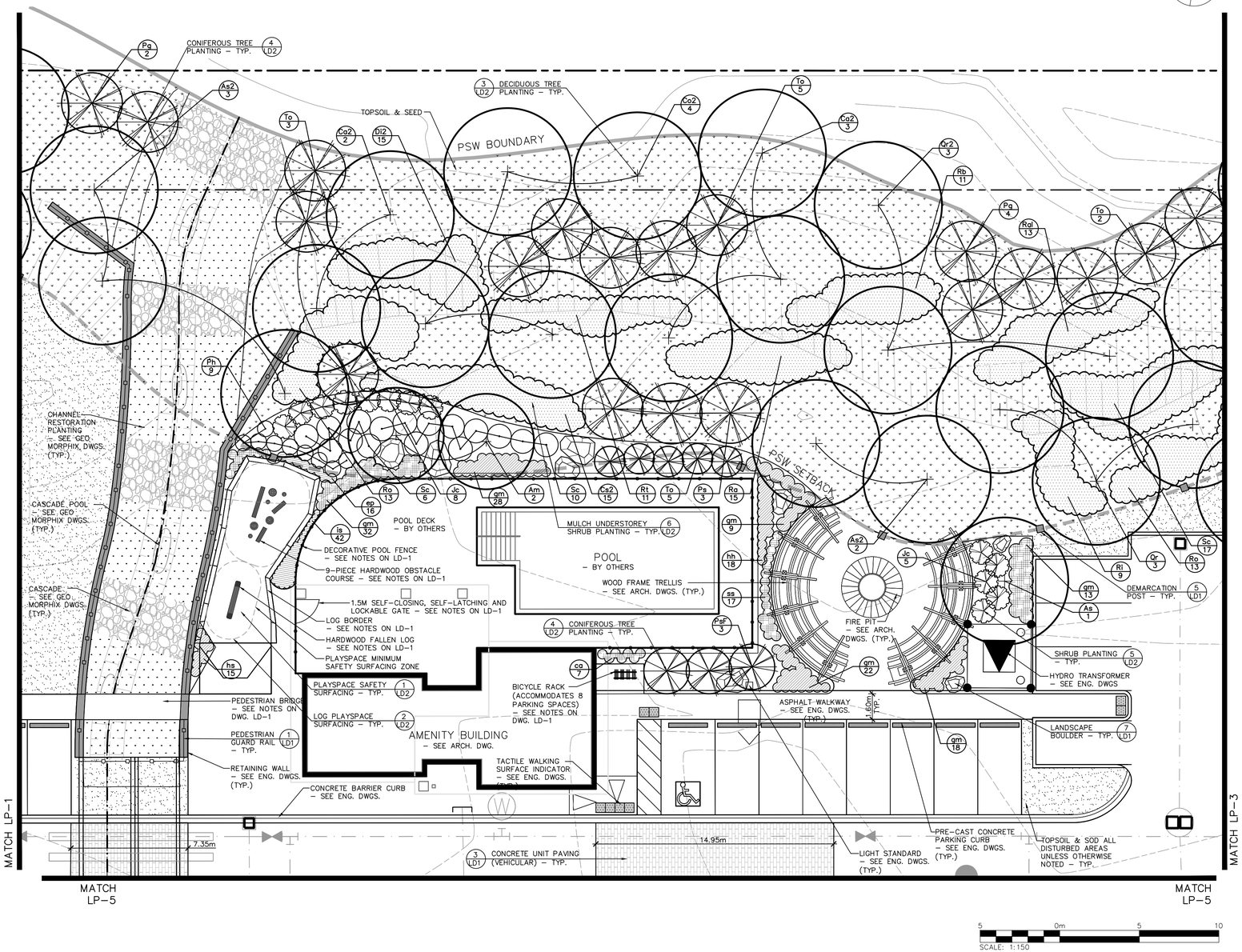
STAMP

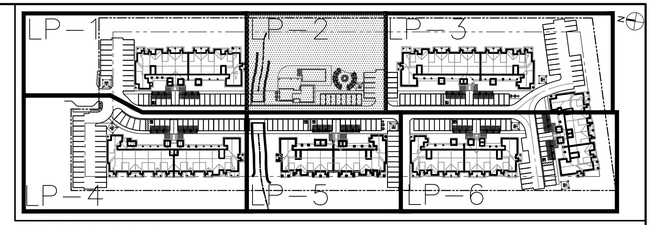
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

CROZIER CONSULTING ENGINEERS

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





SITE KEY PLAN (NTS)
TOWN OF COLLINGWOOD

LEGEND

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

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

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

NOTES:
1. ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
1.	ISSUED FOR 2nd SITE PLAN SUBMISSION	04/08/2021
2.	ISSUED FOR 3rd SITE PLAN SUBMISSION	01/14/2022
3.	ISSUED FOR 4th SITE PLAN SUBMISSION	03/10/2023
4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

STAMP: ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — 2024.12.20 OALA — Matt Caufield — MEMBER

STAMP

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

C.F. CROZIER CONSULTING ENGINEERS

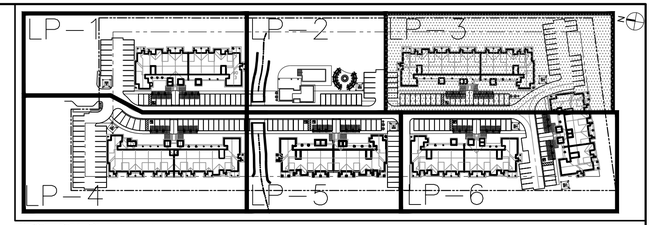
Drawn By	Design By	Project
K.W. / A.M./L.M.	K.W. / M.H.	1535–4897
Check By	Check By	Scale / Drawing
K.W.		1:150 / LP–2

LEGEND

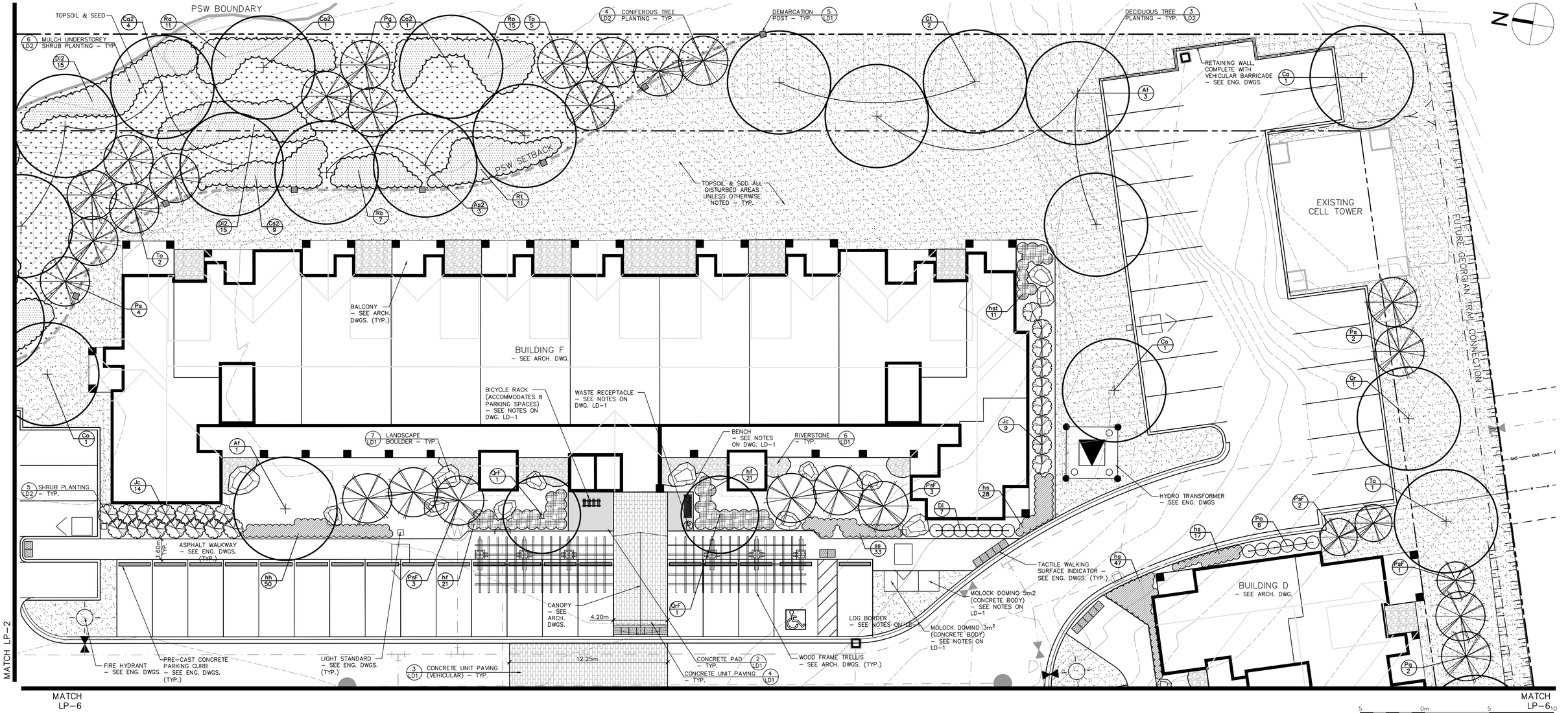
- PROPERTY BOUNDARY
- BUILDING SETBACK
- PSW BOUNDARY
- PSW SETBACK
- BENCH
- WASTE RECEPTACLE
- BICYCLE RACK
- UNDERGROUND SERVICES – SEE ENG. DWGS
- CONCRETE UNIT PAVING
- CONCRETE PAD
- RIVERSTONE
- LANDSCAPE BOULDER
- DECIDUOUS TREE
- CONIFEROUS TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- SHRUB GROUPING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

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



SITE KEY PLAN (NTS)
TOWN OF COLLINGWOOD



1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

NOTES:
1. ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
1.	ISSUED FOR 2nd SITE PLAN SUBMISSION	04/08/2021
2.	ISSUED FOR 3rd SITE PLAN SUBMISSION	01/14/2022
3.	ISSUED FOR 4th SITE PLAN SUBMISSION	03/10/2023
4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

STAMP: ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — 2024.12.20 — OALA — Nick Gayfield — MEMBER

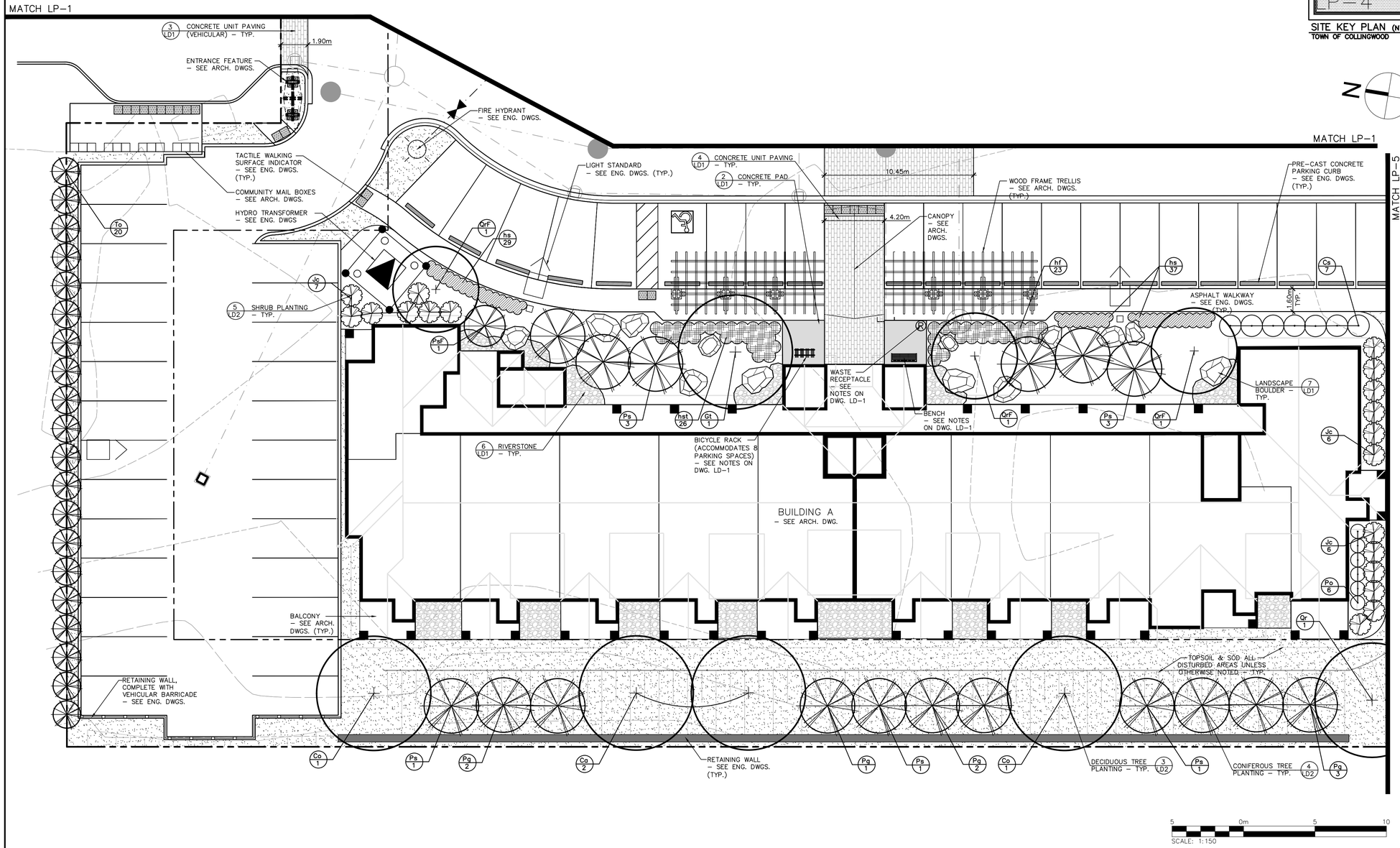
STAMP

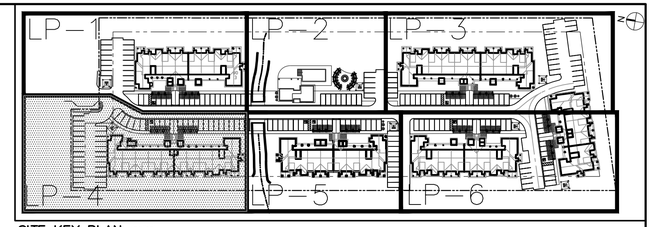
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

CROZIER CONSULTING ENGINEERS

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





SITE KEY PLAN (NTS)
TOWN OF COLLINGWOOD

LEGEND

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

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

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

NOTES:
1. ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
1.	ISSUED FOR 2nd SITE PLAN SUBMISSION	04/08/2021
2.	ISSUED FOR 3rd SITE PLAN SUBMISSION	01/14/2022
3.	ISSUED FOR 4th SITE PLAN SUBMISSION	03/10/2023
4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

STAMP: ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — 2024.12.20 OALA — MEMBER

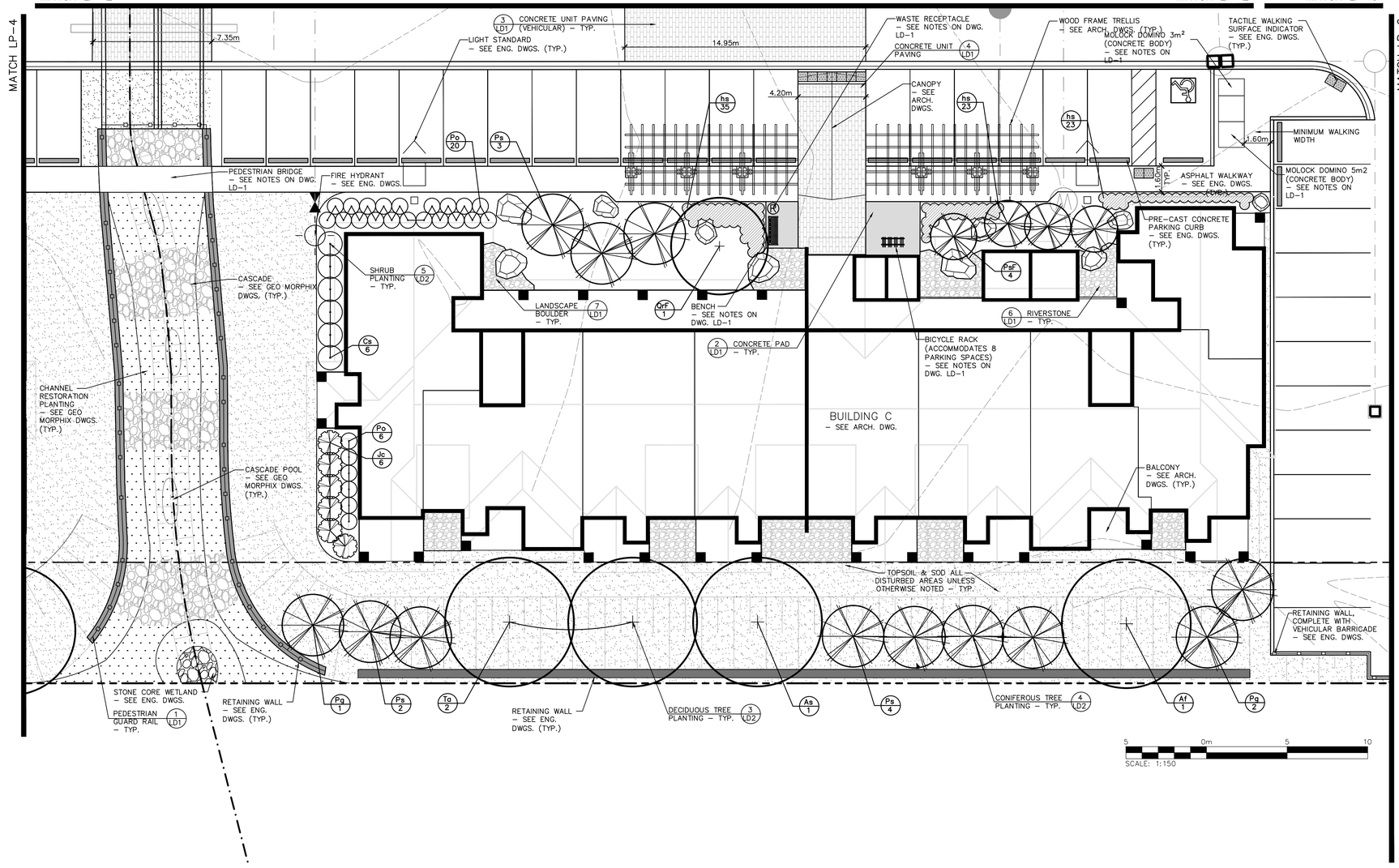
STAMP

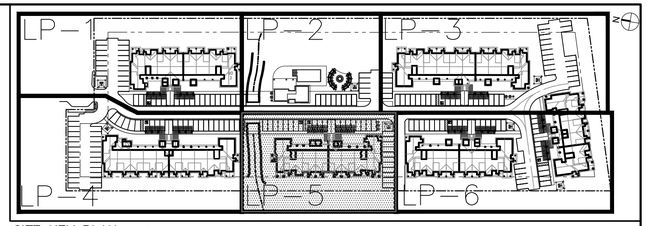
Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project	
K.W. / A.M./L.M.	K.W. / M.H.		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
- SP / QTY — SPECIES / QUANTITY — PLANT REFERENCE
- TOPSOIL AND SOD
- CHANNEL RESTORATION – SEE GEO MORPHIX DWGS.

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

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

NOTES:
1. ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
1.	ISSUED FOR 2nd SITE PLAN SUBMISSION	04/08/2021
2.	ISSUED FOR 3rd SITE PLAN SUBMISSION	01/14/2022
3.	ISSUED FOR 4th SITE PLAN SUBMISSION	03/10/2023
4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

STAMP: ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — OALA — 2024.12.20 — MEMBER

STAMP

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

CROZIER CONSULTING ENGINEERS

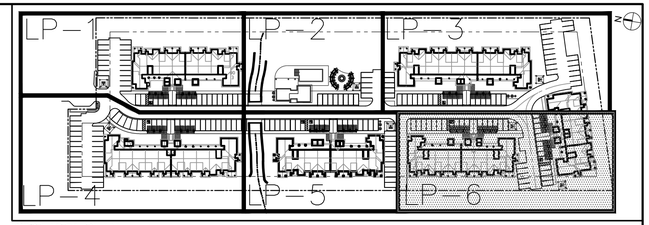
Drawn By	Design By	Project
K.W. / A.M./L.M.	K.W. / M.H.	1535-4897
Check By	Check By	Scale / Drawing
K.W.		1:150 / LP-5

LEGEND

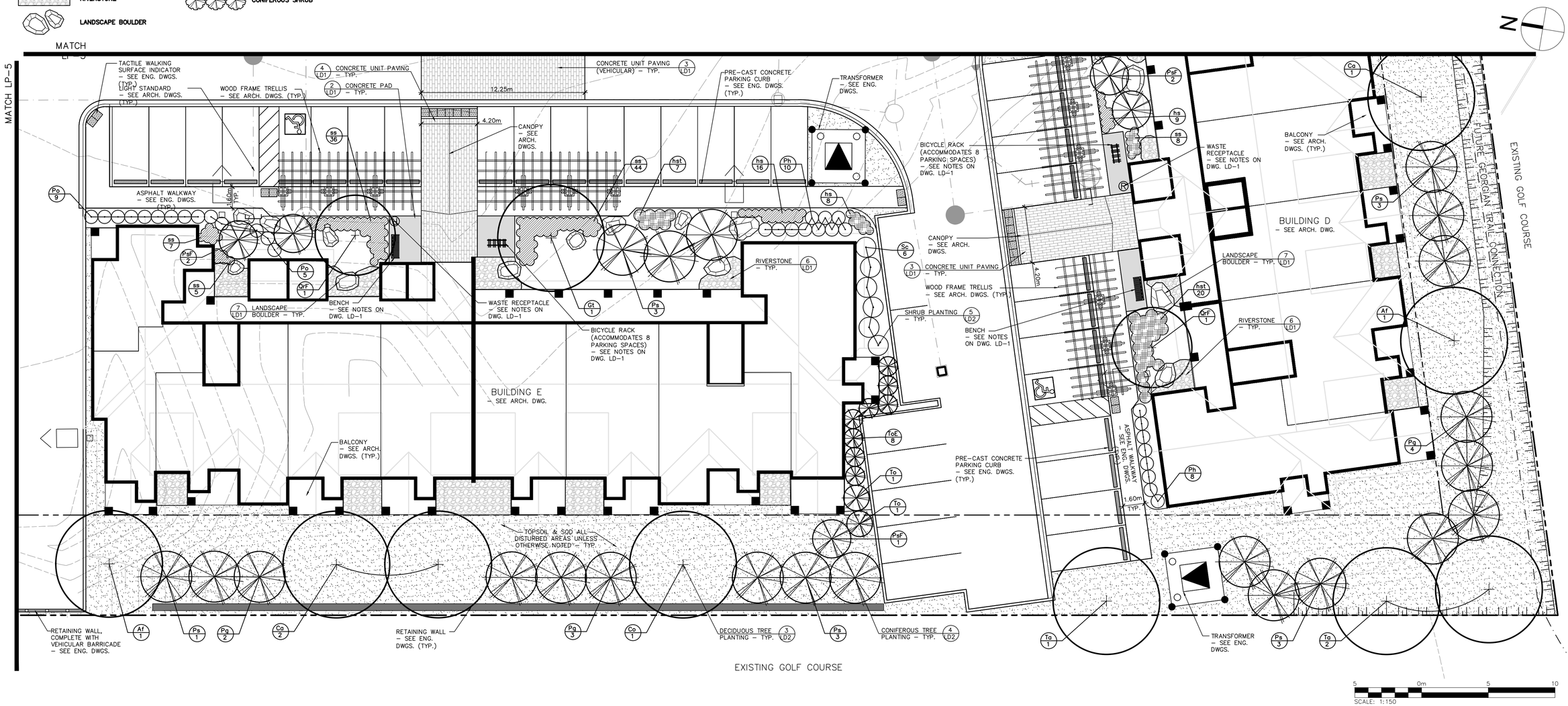
- PROPERTY BOUNDARY
- BUILDING SETBACK
- BENCH
- WASTE RECEPTACLE
- BICYCLE RACK
- UNDERGROUND SERVICES – SEE ENG. DWGS
- CONCRETE UNIT PAVING
- CONCRETE PAD
- RIVERSTONE
- LANDSCAPE BOULDER
- DECIDUOUS TREE
- CONIFEROUS TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- PERENNIALS & GROUNDCOVERS
- PLANT REFERENCE (SP / QTY – SPECIES / QUANTITY)
- TOPSOIL AND SOD

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



SITE KEY PLAN (NTS)
TOWN OF COLLINGWOOD



1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
1.	ISSUED FOR 2nd SITE PLAN SUBMISSION	04/08/2021
2.	ISSUED FOR 3rd SITE PLAN SUBMISSION	01/14/2022
3.	ISSUED FOR 4th SITE PLAN SUBMISSION	03/10/2023
4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

STAMP: ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — 2024.12.20 — OALA — Member

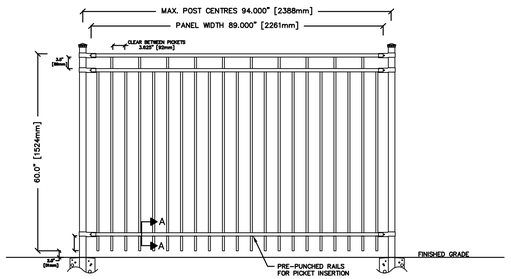
STAMP

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE PLAN

CROZIER CONSULTING ENGINEERS

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



SPECIFICATIONS:

POSTS, RAILS: & PICKETS	EXTRUDED MARINE ALUMINUM 6061-T6 PRIME ALUMINUM, NORTH AMERICAN PRODUCED
FINISH:	SEVEN STAGE ARCHITECTURALLY CERTIFIED PRETREATMENT AS PER AAMA 2604. SUPER DURABLE ELECTROSTATICALLY APPLIED POWDER COAT – MIN THICKNESS 2.5 mils
POSTS:	51mm x 51mm (2"x2"), .125 WALL STANDARD (.188 WALL AVAILABLE)
POST FLANGES:	76mm x 152mm x 9.5mm (3"x6"x⅜") OPTION: 127mm x 127mm x 5mm (5"x5"x⅛") DECO PLATE
POST CAPS:	PYRAMID, BALL, SPIRE OR ACORN
RAILS:	25mm x 25mm (1" x 1"), .125 WALL (top and bottom) .180 WALL (sidewall)
PICKETS:	16mm x 16mm (⅝" x ⅝"), .080 WALL
WELDS:	ALUMINUM – FULL TACK BOTH SIDES OF PICKET

STANDARD PANEL HEIGHTS:

762mm (30")
914mm (36")
1067mm (42")
1219mm (48")
1524mm (60") SHOWN
1829mm (72")

STANDARD PANEL WIDTH:

2372mm (93 ⅜")
(PANELS MAY BE CUT TO SUIT)

SECTION A–A

COLOUR:	STANDARD COLOURS ARE BLACK, SEMI-BLACK BROWN, GREEN, WHITE AND FOREST GREEN (CUSTOM COLOURS AVAILABLE UPON REQUEST)
WARRANTY:	20 YEAR LIMITED
NOTE:	TAMPER PROOF NUT AVAILABLE FOR BRACKETS

NOTE:
1. PEDESTRIAN GUARD RAIL TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
2. FENCING AND RETAINING WALL ATTACHMENTS SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR PEDESTRIAN GUARDS UNDER THE ONTARIO BUILDING CODE.

COMMENTS:

IRON EAGLE INDUSTRIES

TITLE: **IRON EAGLE I ALUMINUM SERIES STYLE 2115**

DRAWING No.: A2115

CHK'D

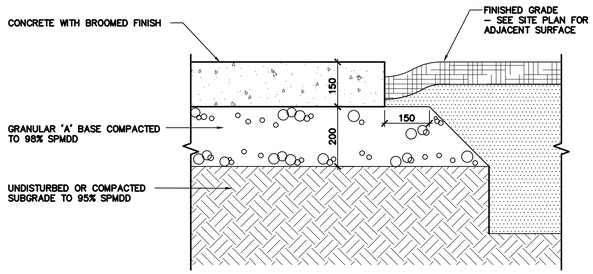
DATE: JAN 12, 2018

IRON EAGLE INDUSTRIES 1256 CARDIFF BLVD., MISSISSAUGA, ON L5S 1R1 www.ironeagleind.com info@ironeagleind.com TEL: 905 670-2558 FAX: 905 670-2536

1 LD1 PEDESTRIAN GUARD RAIL

NTS

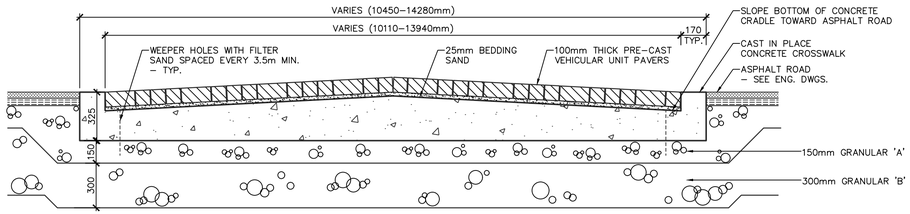
NOTES:
1. CONCRETE PAD SHALL BE IN ACCORDANCE WITH OPSS.MUNI 351 AND MANUFACTURER'S SPECIFICATIONS.



2 LD1 CONCRETE PAD

1:10

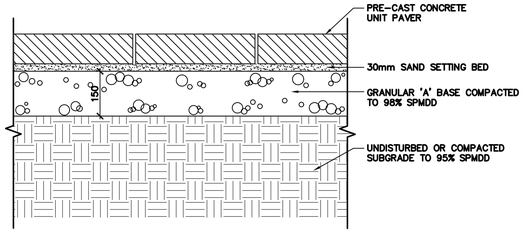
NOTES:
1. SUBGRADE TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% SPMDD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED PRIOR TO PLACING GRANULAR 'B' LAYER.
2. GRANULAR 'A' AND 'B' ROAD BASE TO BE COMPACTED TO 100% OF THE MATERIALS RESPECTIVE SPMDD AND PLACED IN MAXIMUM 150mm LIFTS. REFER TO GEOTECHNICAL 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

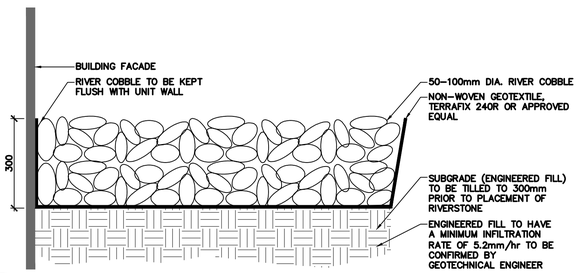
1:20

NOTES:
1. 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

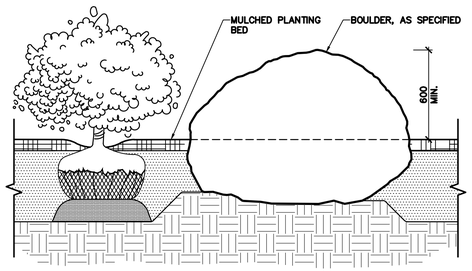
1:10



6 LD1 RIVERSTONE

1:10

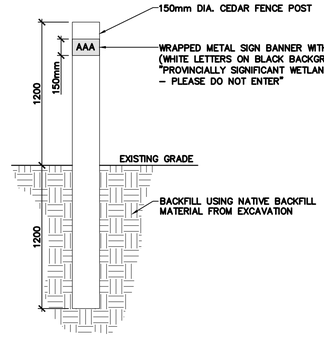
NOTES:
1. BOULDER SHALL BE ROUNDED CAP LIMESTONE ROCKERY, SUPPLIED BY MAXWELL'S LANDSCAPE & MASONRY SUPPLY (705.445.0111) OR APPROVED EQUAL.
2. BOULDER SIZE SHALL BE IN ACCORDANCE TO SCALE DEPICTED ON LANDSCAPE PLANS.
3. STONE TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



7 LD1 LANDSCAPE BOULDER

1:20

NOTES:
1. 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 COLLINGWOODS 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 PLAYSPACE

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-605-06
   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.

4.0 SITE FURNITURE

1. THE FOLLOWING SITE FURNITURE SHALL BE SUPPLIED AND INSTALLED BY PARIS MANUFACTURING LTD., P.O. BOX 70, 21 SCOTT AVENUE, PARIS, ONTARIO, TEL.: 1.800.387.6318 (MARK HICKS):

   BICYCLE RACK
   MODEL NO.: SBR8
   METAL FINISH: POWDER COATED JET BLACK GLOSS
   FOOTING/ ATTACHMENTS: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS

   RECEPTACLE
   MODEL NO.: PSFT32
   METAL FINISH: POWDER COATED JET BLACK GLOSS
   FOOTING/ ATTACHMENTS: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS

   BENCH
   MODEL NO.: RSPS-6
   METAL FINISH: POWDER COATED JET BLACK GLOSS
   FOOTING/ ATTACHMENTS: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS

2. THE FOLLOWING SITE FURNITURE SHALL BE SUPPLIED AND INSTALLED BY MOLOK NORTH AMERICA LTD., 152 HARRY BYE BLVD, MOUNT FOREST, ONTARIO, TEL.: 1.519.323.9909:

   MOLOK DOMINO 3m³ (CONCRETE BODY)
   FOOTING/ ATTACHMENTS: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS

   MOLOK DOMINO 5m³ (CONCRETE BODY)
   FOOTING/ ATTACHMENTS: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

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

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
1.	ISSUED FOR 2nd SITE PLAN SUBMISSION	04/08/2021
2.	ISSUED FOR 3rd SITE PLAN SUBMISSION	01/14/2022
3.	ISSUED FOR 4th SITE PLAN SUBMISSION	03/10/2023
4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

STAMP: ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — MATTHEW CAMPBELL — 2024.12.20 — OALA MEMBER

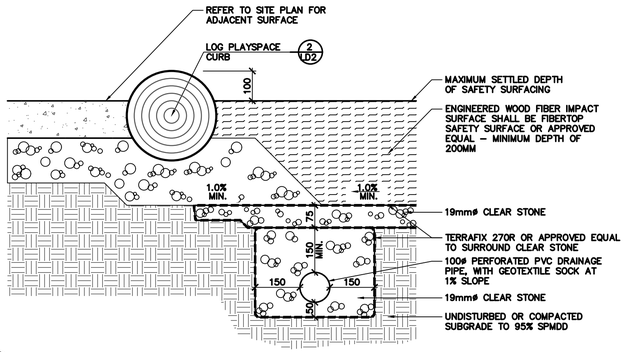
STAMP

Project: WYLDEWOOD CREEK
TOWN OF COLLINGWOOD

Drawing: LANDSCAPE DETAILS

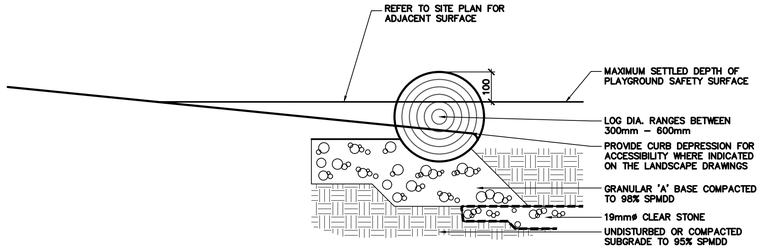
CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project	
K.W. / A.M.	K.W.		1535-4897
Check By: K.W.	Check By:	Scale: AS SHOWN	Drawing: LD-1



1 LD2 PLAYSPACE SAFETY SURFACING

NTS

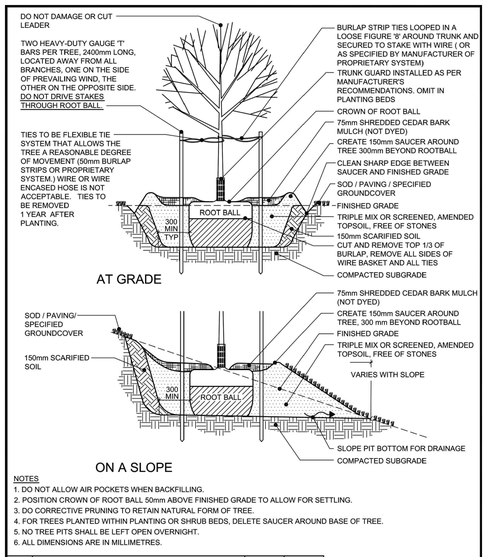


2 LD2 LOG PLAYSPACE CURB

NTS

PLANTING NOTES:

1. ALL WORKMANSHIP TO THE STANDARDS OF THE LANDSCAPE ONTARIO HORTICULTURAL TRADES ASSOCIATION AND THE CANADIAN LANDSCAPE STANDARDS.
2. TREE LOCATIONS SHALL BE STAKED ON SITE BY THE LANDSCAPE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
3. 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.
4. REPORT ALL DISCREPANCIES IN WRITING TO THE LANDSCAPE ARCHITECT.
5. CONTRACTOR SHALL MAINTAIN ALL LANDSCAPE AREAS UNTIL OWNER'S ACCEPTANCE OF PROJECT.
6. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.
7. PLANTING MAY BE ADJUSTED TO SUIT LOCATIONS OF SITE UTILITY STRUCTURES/ SERVICES AND DRIVEWAYS.
8. TREE PITS OR PLANTING BEDS LOCATED WITHIN 1 METER OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.
9. 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.
10. ALL MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
11. 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.
12. FINAL INSPECTION AND ACCEPTANCE OF PLANTING WORK SHALL COINCIDE WITH THE FINAL INSPECTION AND ACCEPTANCE OF ALL WORK INCLUDED IN THE CONTRACT.
13. 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

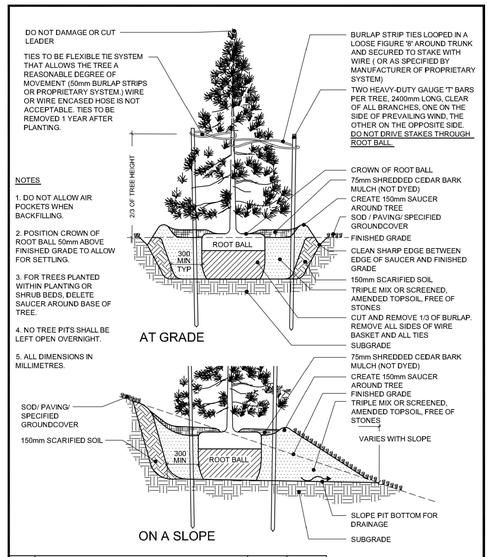
1. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
2. POSITION CROWN OF ROOT BALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLING.
3. DO CORRECTIVE PRUNING TO RETAIN NATURAL FORM OF TREE.
4. FOR TREES PLANTED WITHIN PLANTING OR SHRUB BEDS, DELETE SAUCER AROUND BASE OF TREE.
5. NO TREE PITS SHALL BE LEFT OPEN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

NO.	REVISION	APR'D	DATE
1	PLANTING METHODOLOGY	EN	JUL/04
2	PLANTING METHODOLOGY	DW	JUN/07

TOWN OF COLLINGWOOD	APR'D: DW	DATE: JAN/03	
	DRAWN: AB	SCALE: NTS	
DECIDUOUS TREE PLANTING	STD. No.	1101	

3 LD2 DECIDUOUS TREE PLANTING

NTS



NOTES

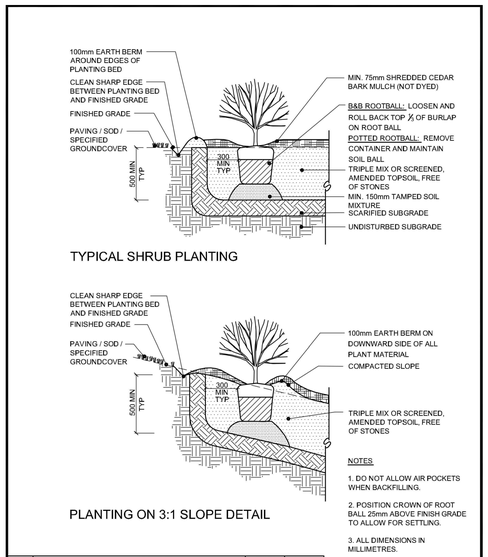
1. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
2. POSITION CROWN OF ROOT BALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLING.
3. FOR TREES PLANTED WITHIN PLANTING OR SHRUB BEDS, DELETE SAUCER AROUND BASE OF TREE.
4. NO TREE PITS SHALL BE LEFT OPEN OVERNIGHT.
5. ALL DIMENSIONS IN MILLIMETRES.

NO.	REVISION	APR'D	DATE
1	PLANTING METHODOLOGY	EN	JUL/04
2	PLANTING METHODOLOGY	DW	JUN/07

TOWN OF COLLINGWOOD	APR'D: DW	DATE: JAN/03	
	DRAWN: AB	SCALE: NTS	
CONIFEROUS TREE PLANTING	STD. No.	1102	

4 LD2 CONIFEROUS TREE PLANTING

NTS



NOTES

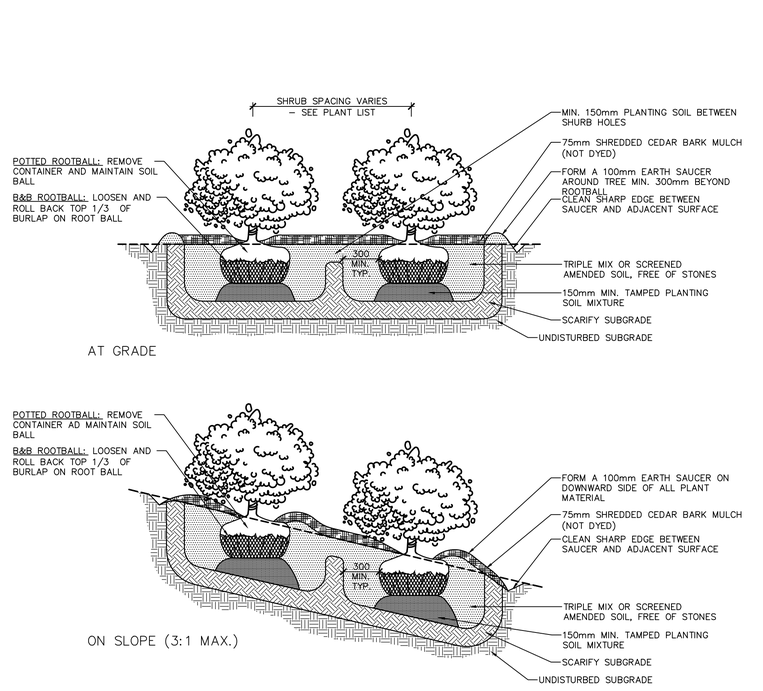
1. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
2. POSITION CROWN OF ROOT BALL 25mm ABOVE FINISH GRADE TO ALLOW FOR SETTLING.
3. ALL DIMENSIONS IN MILLIMETRES.

NO.	REVISION	APR'D	DATE
1	PLANTING METHODOLOGY	EN	JUL/04
2	PLANTING METHODOLOGY	DW	JUN/07

TOWN OF COLLINGWOOD	APR'D: DW	DATE: JAN/03	
	DRAWN: AB	SCALE: NTS	
SHRUB PLANTING	STD. No.	1103	

5 LD2 SHRUB PLANTING

NTS



6 LD2 MULCH UNDERSTOREY SHRUB PLANTING

1:25

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & 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.

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

Town

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
1.	ISSUED FOR 2nd SITE PLAN SUBMISSION	04/08/2021
2.	ISSUED FOR 3rd SITE PLAN SUBMISSION	01/14/2022
3.	ISSUED FOR 4th SITE PLAN SUBMISSION	03/10/2023
4.	ISSUED FOR 5th SITE PLAN SUBMISSION	04/10/2024
5.	ISSUED FOR 6th SITE PLAN SUBMISSION	12/20/2024

STAMP: ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — MATTHEW CAMPBELL — OALA — 2024.12.20 — MEMBER

STAMP

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.	Check By:	Scale: AS SHOWN	Drawing: LD–2

2 A000 RENDERING – VIEW FROM PROPOSED CREEK
SCALE: NTS REF DWG:

1 A000 RENDERING – FRONT ENTRANCE
SCALE: NTS REF DWG:

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.

ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2021/04/05	RE-ISSUED FOR SITE PLAN APPROVAL

WYLDEWOOD Creek

CMV GROUP architects

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 2A8
www.smvarch.com

T 416.506.1600 F 416.506.0956

ONTARIO ASSOCIATION of ARCHITECTS
DANIEL L. COWLING
LICENCE
5403

Project:
WYLDEWOOD CREEK
DESIGN DEVELOPMENT

COLLINGWOOD ONTARIO

Drawing Title:
RENDERINGS

Drawn By:	Checked By:	Date Checked:	Project No.
	CMV		18A143
Date Plotted:			Scale:
Apr 05, 2021 - 2:28pm			AS NOTED
Drawing No.:			Revision No.:
A000			1

FILE NAME: S:\2018 Projects\18A143 - Wyldewood Creek\Design Drngs\Arch\00 RENDERINGS\18A143-A000 Renderings.dwg

4 A301 BLOCK A SIDE 2 ELEVATION
SCALE: 1:100 REF DWG: A201

3 A301 BLOCK A SIDE 1 ELEVATION
SCALE: 1:100 REF DWG: A201

2 A301 BLOCK A REAR ELEVATION
SCALE: 1:100 REF DWG: A201

1 A301 BLOCK A FRONT ELEVATION
SCALE: 1:100 REF DWG: A201

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.
THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.
ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.
DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2019/02/04	ISSUED FOR SITE PLAN APPROVAL
2	2021/04/05	RE-ISSUED FOR SITE PLAN APPROVAL
3	2022/01/14	RE-ISSUED FOR SITE PLAN APPROVAL

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 3A8
www.cmvarch.com
T 416.506.1600 F 416.506.0956

Seal: ONTARIO ASSOCIATION of ARCHITECTS DANIEL L COWLING LICENCE 5403

Project:
WYLDEWOOD CREEK
DESIGN DEVELOPMENT

COLLINGWOOD ONTARIO

Drawing Title:
EXTERIOR ELEVATIONS - BLOCK A

Drawn By:	Checked By:	Date Checked:	Project No.:
	CMV		18A143
Date Plotted: Mar 27, 2023 - 11:02am			Scale: AS NOTED
Drawing No.: A301			Revision No.: 3

FILE NAME: C:\Users\KEIBA~1.PET\AppData\Local\Temp\AcPublish_14424\18A143-EXEV BLOCK A.dwg

4 A302 BLOCK B SIDE 2 ELEVATION
SCALE: 1:100 REF DWG: A201

3 A302 BLOCK B SIDE 1 ELEVATION
SCALE: 1:100 REF DWG: A201

2 A302 BLOCK B REAR ELEVATION
SCALE: 1:100 REF DWG: A201

1 A302 BLOCK B FRONT ELEVATION
SCALE: 1:100 REF DWG: A201

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.

ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2019/02/04	ISSUED FOR SITE PLAN APPROVAL
2	2021/04/05	RE-ISSUED FOR SITE PLAN APPROVAL
3	2022/01/14	RE-ISSUED FOR SITE PLAN APPROVAL

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 2A8
www.smvarch.com
T 416.506.1600 F 416.506.0956

Seal: ONTARIO ASSOCIATION OF ARCHITECTS DANIEL L. COWLING LICENCE 5403

Project:
WYLDEWOOD CREEK
DESIGN DEVELOPMENT

COLLINGWOOD ONTARIO

Drawing Title:
EXTERIOR ELEVATIONS - BLOCK B

Drawn By:	Checked By:	Date Checked:	Project No.:
	CMV		18A143
Date Plotted:			Scale:
Mar 27, 2023 - 11:02am			AS NOTED
Drawing No.:			Revision No.:
A302			3

IMAGES: \\.\.\..\condoimgarchive.JPG
S:\2018 Projects\18A143 - Wyldewood Creek\Design Dwgs\Arch\REF JPG\WYLDEWOOD_CREEK_DAY_LOGO.jpg
S:\2018 Projects\18A143 - Wyldewood Creek\Design Dwgs\Arch\ELEVATIONS\REF\ 18A143-X-ELEV BLOCK B.dwg
...\x-REF JPG\WYLDEWOOD_CREEK_DAY_LOGO.jpg

XREFS: 18A143-X-BLOCK B | \..\..\1 PLANS IN PROGRESS\18A143-X-BLOCK B.dwg]

FILE NAME: S:\2018 Projects\18A143 - Wyldewood Creek\Design Dwgs\Arch\ELEVATIONS\REF\ 18A143-X-ELEV BLOCK B.dwg

A0

4 A303 BLOCK C SIDE 2 ELEVATION

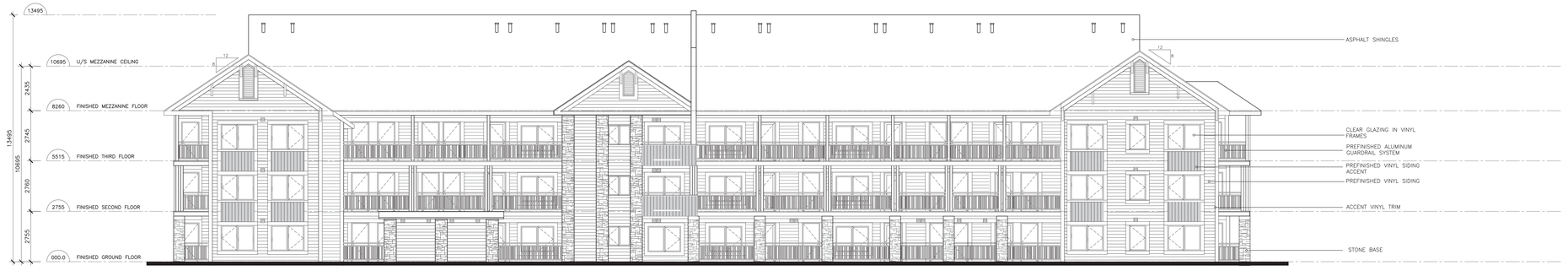
SCALE: 1:100 REF DWG: A205, A206

3 A303 BLOCK C SIDE 1 ELEVATION

SCALE: 1:100 REF DWG: A205, A206

2 A303 BLOCK C REAR ELEVATION

SCALE: 1:100 REF DWG: A205, A206



1 A303 BLOCK C FRONT ELEVATION

SCALE: 1:100 REF DWG: A205, A206

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.

ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2019/02/04	ISSUED FOR SITE PLAN APPROVAL
2	2021/04/05	RE-ISSUED FOR SITE PLAN APPROVAL
3	2022/01/14	RE-ISSUED FOR SITE PLAN APPROVAL

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 2A8
www.smvarch.com
T 416.506.1600 F 416.506.0956

Seal: ONTARIO ASSOCIATION OF ARCHITECTS DANIEL L. COWLING LICENCE 5403

Project
WYLDEWOOD CREEK
DESIGN DEVELOPMENT

COLLINGWOOD ONTARIO

Drawing Title
EXTERIOR ELEVATIONS - BLOCK C

Drawn By:	Checked By:	Date Checked:	Project No.
	CMV		18A143
Date Plotted:			Scale:
Mar 27, 2023 - 11:02am			AS NOTED
Drawing No.:			Revision No.:
A303			3

FILE NAME: S:\2018 Projects\18A143 - Wyldewood Creek\Design Drngs\Arch\ELEVATIONS\A303 18A143-ELEV BLOCK C.dwg

4 A304 BLOCK D SIDE 2 ELEVATION

SCALE: 1:100 REF DWG: A207, A208

3 A304 BLOCK D SIDE 1 ELEVATION

SCALE: 1:100 REF DWG: A207, A208

2 A304 BLOCK D REAR ELEVATION

SCALE: 1:100 REF DWG: A207, A208

1 A304 BLOCK D FRONT ELEVATION

SCALE: 1:100 REF DWG: A207, A208

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.

ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2019/02/04	ISSUED FOR SITE PLAN APPROVAL
2	2021/04/05	RE-ISSUED FOR SITE PLAN APPROVAL
3	2022/01/14	RE-ISSUED FOR SITE PLAN APPROVAL

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 2A8
www.cmvarch.com
T 416.506.1600 F 416.506.0866

Seal: ONTARIO ASSOCIATION OF ARCHITECTS DANIEL L. COWLING LICENCE 5403

Project:
WYLDEWOOD CREEK
DESIGN DEVELOPMENT

COLLINGWOOD ONTARIO

Drawing Title:
EXTERIOR ELEVATIONS - BLOCK D

Drawn By:	Checked By:	Date Checked:	Project No.:
	CMV		18A143
Date Plotted: Mar 27, 2023 - 11:02am			Scale: AS NOTED
Drawing No.: A304			Revision No.: 3

FILE NAME: S:\2018 Projects\18A143 - Wyldewood Creek\Design Drngs\Arch\REVISIONS\REVISION 3\18A143-ELEV BLOCK D.dwg

4 A304 BLOCK D SIDE 2 ELEVATION
SCALE: 1:75 REF DWG: A207, A208

3 A304 BLOCK D SIDE 1 ELEVATION
SCALE: 1:100 REF DWG: A207, A208

2 A304 BLOCK D REAR ELEVATION
SCALE: 1:75 REF DWG: A207, A208

1 A304 BLOCK D FRONT ELEVATION
SCALE: 1:75 REF DWG: A207, A208

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.

ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2022/01/14	ISSUED FOR SITE PLAN APPROVAL

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 2A8
www.smvarch.com
T 416.506.1600 F 416.506.0966

Seal: ONTARIO ASSOCIATION OF ARCHITECTS DANIEL L. COWLING LICENCE 5403

Project:
WYLDEWOOD CREEK
DESIGN DEVELOPMENT

COLLINGWOOD ONTARIO

Drawing Title:
EXTERIOR ELEVATIONS -
BLOCK D - COLOUR

Drawn By:	Checked By:	Date Checked:	Project No.:
	CMV		18A143
Date Plotted:			Scale:
Mar 27, 2023 - 11:02am			AS NOTED
Drawing No.:			Revision No.:
A304a			1

FILE NAME: S:\2018 Projects\18A143 - Wyldewood Creek\Design Drwgs\Arch\ELEVATIONS\18A143-EXT BLOCK D.dwg

4 A305 BLOCK E SIDE 2 ELEVATION

SCALE: 1:100 REF DWG: A209, A210

3 A305 BLOCK E SIDE 1 ELEVATION

SCALE: 1:100 REF DWG: A209, A210

2 A305 BLOCK E REAR ELEVATION

SCALE: 1:100 REF DWG: A209, A210

1 A305 BLOCK E FRONT ELEVATION

SCALE: 1:100 REF DWG: A209, A210

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.

ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2019/02/04	ISSUED FOR SITE PLAN APPROVAL
2	2021/04/05	RE-ISSUED FOR SITE PLAN APPROVAL
3	2022/01/14	RE-ISSUED FOR SITE PLAN APPROVAL

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 3A8
www.smvarch.com
T 416.506.1600 F 416.506.0956

Seal: ONTARIO ASSOCIATION OF ARCHITECTS DANIEL L. COWLING LICENCE 5403

Project:
WYLDEWOOD CREEK
DESIGN DEVELOPMENT

COLLINGWOOD ONTARIO

Drawing Title:
EXTERIOR ELEVATIONS - BLOCK E

Drawn By:	Checked By:	Date Checked:	Project No.:
	CMV		18A143

Date Plotted:	Scale:
Mar 27, 2023 - 11:02am	AS NOTED

Drawing No.:	Revision No.:
A305	3

FILE NAME: S:\2018 Projects\18A143 - Wyldewood Creek\Design Drngs\Arch\ELEVATIONS\DEPT\18A143-X-ELEV BLOCK E.dwg

4 A306 BLOCK F SIDE 2 ELEVATION
SCALE: 1:100 REF DWG: A211, A212

3 A306 BLOCK F SIDE 1 ELEVATION
SCALE: 1:100 REF DWG: A211, A212

2 A306 BLOCK F REAR ELEVATION
SCALE: 1:100 REF DWG: A211, A212

1 A306 BLOCK F FRONT ELEVATION
SCALE: 1:100 REF DWG: A211, A212

ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON REQUEST.
THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ARCHITECT.
ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE INDICATED.
DO NOT SCALE DRAWINGS.

REVISIONS AND DISTRIBUTION LOG

No.	Date	Note
1	2019/02/04	ISSUED FOR SITE PLAN APPROVAL
2	2021/04/05	RE-ISSUED FOR SITE PLAN APPROVAL
3	2022/01/14	RE-ISSUED FOR SITE PLAN APPROVAL

247 Spadina Avenue, 4th floor
Toronto, Ontario
M5T 2A8
www.cmvarch.com
T 416.506.1600 F 416.506.0956

Seal: ONTARIO ASSOCIATION of ARCHITECTS DANIEL L. COWLING LICENCE 5403

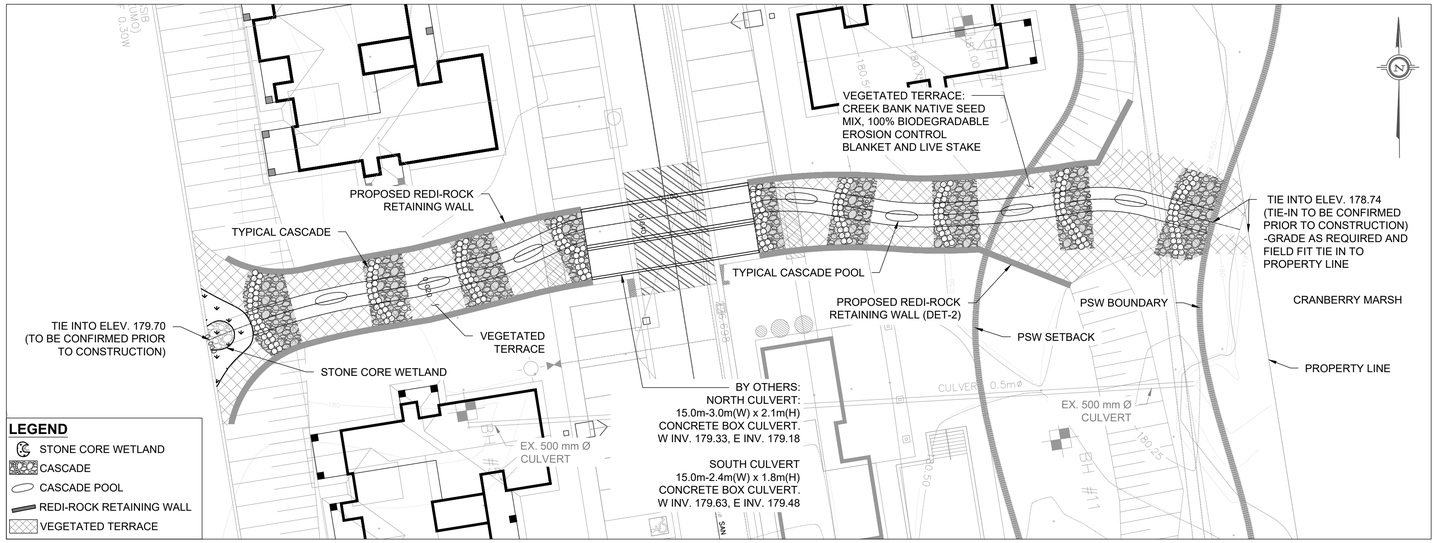
Project:
WYLDEWOOD CREEK
DESIGN DEVELOPMENT

COLLINGWOOD ONTARIO

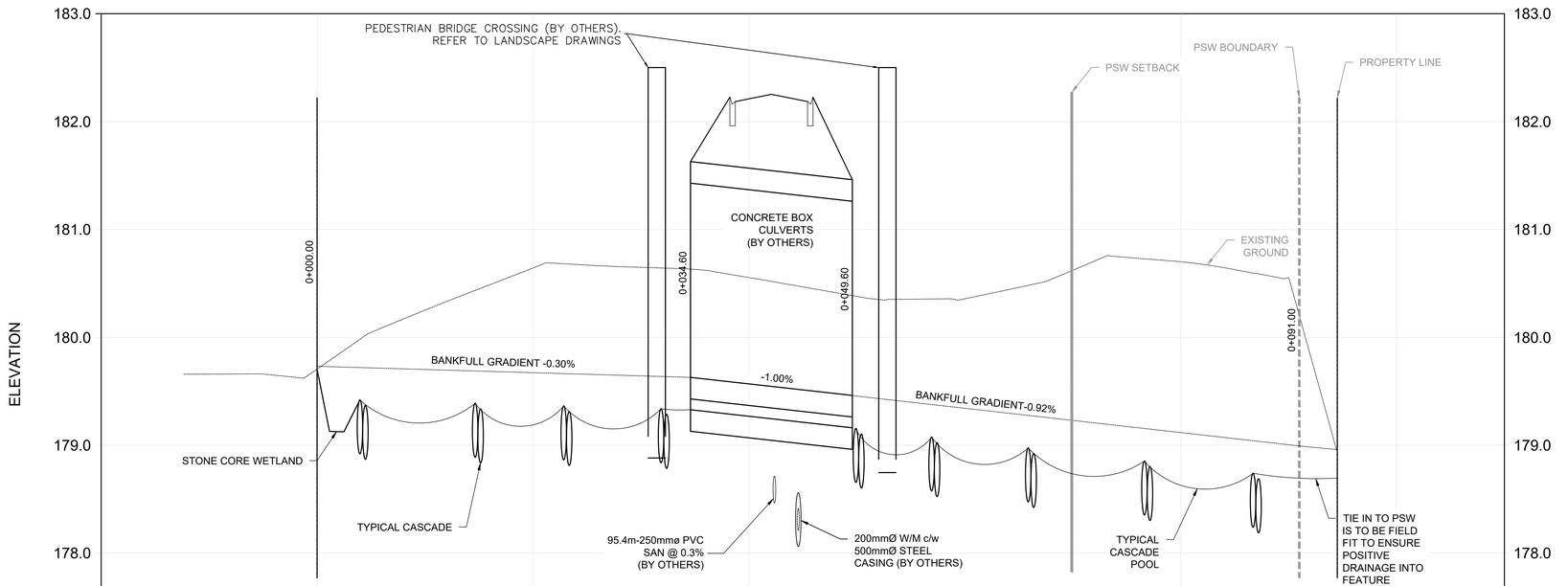
Drawing Title:
EXTERIOR ELEVATIONS - BLOCK F

Drawn By:	Checked By:	Date Checked:	Project No.:
	CMV		18A143
Date Plotted:			Scale:
Mar 27, 2023 - 11:02am			AS NOTED
Drawing No.:			Revision No.:
A306			3

FILE NAME: S:\2018 Projects\18A143 - Wyldewood Creek (Design Dvgs)\ARCH\ELEVATIONS\[REF] 18A143-ELEV BLOCK F.dwg



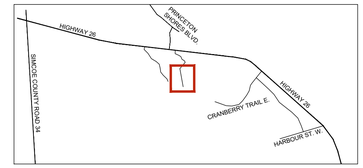
PLANFORM
1:250



STATION	0+000					0+020					0+040					0+060					0+080					0+100	STATION
LOW FLOW CHANNEL INVERT	179.70	179.13	179.42	179.21	179.39	179.18	179.36	179.15	179.34	179.26	179.15	178.91	179.08	178.83	178.97	178.72	178.85	178.60	178.74	178.74							LOW FLOW CHANNEL INVERT

PROFILE
H = 1:250; V=1:25

SCALED FOR PLOT ON 'ARCH D'



KEY MAP
N.T.S.

GENERAL NOTES

1. ALL CONTRACT DRAWINGS, SPECIFICATIONS AND APPLICABLE PERMITS MUST BE KEPT ON SITE DURING CONSTRUCTION FOR REFERENCE.
2. THE CONTRACTOR MUST NOTIFY THE CONTRACT ADMINISTRATOR AND CONSERVATION AUTHORITY OF THE INTENT TO COMMENCE WORK AT LEAST 48 HOURS IN ADVANCE.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES.
4. LAYOUT MUST BE REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR.

TIMING OF WORKS

1. WORKS SHALL BE COMPLETED BETWEEN JULY 1ST TO MARCH 31ST.
2. TREE CLEARING SHOULD BE COMPLETED OUTSIDE THE BIRD NESTING SEASON TO COMPLY WITH THE FEDERAL MIGRATORY BIRDS CONVENTION ACT. ANY TREES THAT REQUIRE REMOVAL OUTSIDE OF THIS TIMING WINDOW MUST FIRST BE INSPECTED BY A QUALIFIED BIOLOGIST TO DETERMINE THE PRESENCE OF NESTING BIRDS.
3. THE WEATHER FORECAST SHOULD BE CONTINUALLY MONITORED TO ENSURE THAT WORKS ARE UNDERTAKEN ONLY DURING FAVOURABLE WEATHER CONDITIONS.
4. COMPLETE THE WORKS WITH MINIMAL AVOIDABLE INTERRUPTIONS ONCE THEY COMMENCE.

SITE AND MATERIAL MANAGEMENT

1. ALL CONSTRUCTION EQUIPMENT AND MATERIALS (IMPORTED OR EXCAVATED) MUST BE STORED AT LEAST 30 m AWAY FROM ANY WATERBODY IN A STABLE AREA ABOVE THE ACTIVE FLOODPLAIN, OR IN A DESIGNATED STAGING/STORAGE AREA.
2. IN THE EVENT OF AN UNEXPECTED STORM, ALL UNFIXED ITEMS THAT HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW MUST BE MOVED A STABLE AREA ABOVE ACTIVE FLOODPLAIN.
3. STOCKPILES MUST BE LOCATED OUTSIDE THE ISOLATED WORK AREAS.
4. STABILIZE STOCKPILED SOILS THAT ARE STORED FOR PROLONGED PERIODS WITH THE APPLICATION OF A NURSE CROP AT A RATE OF 60 kg/ha.
5. STABILIZE, TEMPORARILY OR PERMANENTLY, ANY DISTURBED AREAS AS WORK PROGRESSES, OR SOON AS CONDITIONS ALLOW. ON SOILS THAT WILL BE EXPOSED FOR PROLONGED PERIODS, TEMPORARILY INSTALL A BIODEGRADABLE EROSION CONTROL BLANKET ON EXPOSED SOILS, OR APPLY A NURSE CROP AT A RATE OF 60 KG/HA.
6. MINIMIZE THE AREA OF DISTURBANCE TO THE EXTENT POSSIBLE.
7. ALL VEGETATION, ADJACENT TO THE WORK AREA, MUST BE PROTECTED AND DELINEATED WITH CONSTRUCTION FENCING OR TREE PROTECTION BARRIERS.
8. ALL GRADES IN THE AREA REGULATED BY THE CONSERVATION AUTHORITY MUST BE MAINTAINED OR MATCHED, UNLESS OTHERWISE AUTHORIZED IN THE APPLICABLE PERMIT.

EROSION AND SEDIMENT CONTROL

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO START OF WORKS.
2. SEDIMENT CONTROLS MUST BE INSPECTED DAILY TO ENSURE THAT THEY ARE IN GOOD REPAIR AND FUNCTIONING AS INTENDED.
3. EROSION AND SEDIMENT CONTROLS MUST BE MAINTAINED DURING CONSTRUCTION, AND ANY REQUIRED REPAIRS OR REPLACEMENTS MUST BE COMPLETED WITHIN 24 HOURS AFTER THEY HAVE BEEN IDENTIFIED DURING THE MONITORING.
4. EROSION AND SEDIMENT CONTROLS MAY REQUIRE PERIODIC ADJUSTMENTS TO REFLECT CHANGING SITE CONDITIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THESE ADJUSTMENTS TO ENSURE PROPER FUNCTION.
5. ANY CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN BEYOND MINOR ADJUSTMENTS MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON SITE IN ORDER TO FACILITATE IMMEDIATE REPAIRS AND/OR UPGRADES AS NEEDED.
7. ALL TEMPORARY SEDIMENT CONTROLS MUST BE REMOVED AFTER THE CONTRACT ADMINISTRATOR DEEMS THE SITE TO BE STABLE.
8. ANY ADJUSTMENTS TO EROSION AND SEDIMENT CONTROLS MADE BY THE CONTRACTOR WILL BE DOCUMENTED IN WRITING.

DELETERIOUS SUBSTANCE CONTROL/SPILL MANAGEMENT

1. PREVENT THE RELEASE OF SEDIMENT, SEDIMENT-LADEN WATER, RAW CONCRETE, CONCRETE LEACHATE OR ANY OTHER DELETERIOUS SUBSTANCES INTO ANY WATERBODY, RAVINE OR STORM SEWER SYSTEM.
2. ENSURE EQUIPMENT AND MACHINERY ARE IN GOOD OPERATING CONDITION (POWER WASHED), FREE OF LEAKS, EXCESS OIL, AND GREASE.
3. NO EQUIPMENT REFUELLING OR SERVICING SHOULD BE UNDERTAKEN WITHIN 30 m OF ANY WATERCOURSE OR SURFACE WATER DRAINAGE.
4. A SPILL CONTAINMENT KIT MUST BE READILY ACCESSIBLE ON SITE IN THE EVENT OF A RELEASE OF A DELETERIOUS SUBSTANCE TO THE ENVIRONMENT. ONSITE STAFF MUST BE TRAINED IN ITS USE.
5. THE CONTRACT ADMINISTRATOR MUST BE NOTIFIED IMMEDIATELY IN THE EVENT OF A SPILL OF DELETERIOUS SUBSTANCE.

WORK AREA ISOLATION

1. ALL WORK IN ISOLATED WORK AREAS MUST BE COMPLETED IN THE DRY. AN ADEQUATE NUMBER OF PUMPS MUST BE USED FOR UNWATERING.
2. THE UNWATERING DISCHARGE LOCATION MUST BE LOCATED AT LEAST 30 M FROM ANY WATERCOURSE OR WETLAND IN AN AREA WITH DENSE VEGETATIVE GROUNDCOVER, AND WHERE THE DISCHARGE CAN RETURN TO THE WATERBODY DOWNSTREAM OF THE WORK AREA OVER THE GROUNDCOVER.
3. FISH MUST BE REMOVED FROM THE WORK AREA ONCE ISOLATED. FISH SALVAGE MUST BE COMPLETED BY A QUALIFIED TECHNICIAN WITH A LICENSE FROM THE ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY.

1.	2023-02-07	BWM	THIRD SUBMISSION
	DATE	BY	REVISIONS

DESIGNED BY: P.V. | CHECKED BY: P.V.

DRAWN BY: B.W.M. | DATE: FEBRUARY 2023

PROFESSIONAL GEOSCIENTIST
PAUL V. VILLARD
PRACTISING MEMBER
0957
ONTARIO
2023-02-07

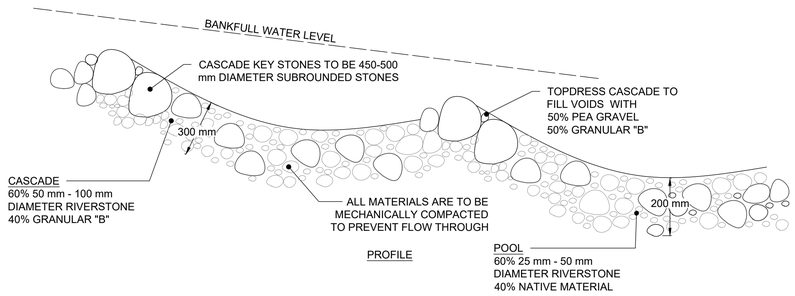
GEO MORPHIX™
36 Main Street North, PO Box 205
Campbellville, Ontario L0P 1B0
T: 416.920.0926
www.geomorphix.com

WYLDEWOOD CREEK
BRANDY LANE HOMES

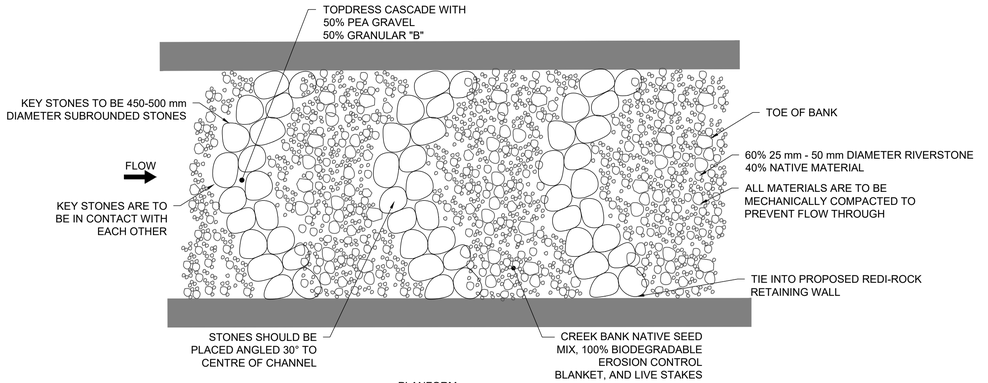
CHANNEL RESTORATION DESIGN
PLANFORM AND PROFILE

PROJECT No.: 21032 | DRAWING No.: GEO-1

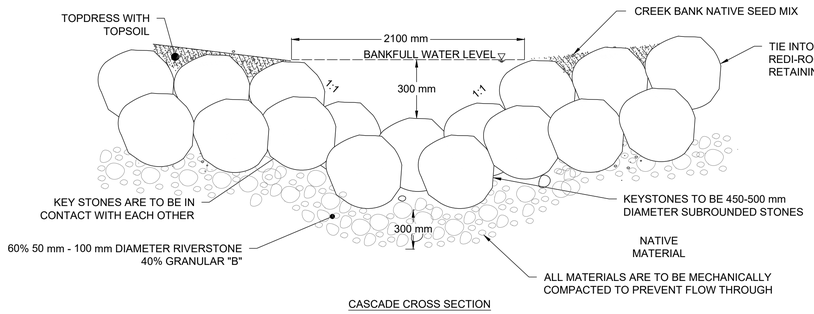
SCALE: AS NOTED | SHEET 1 OF 4



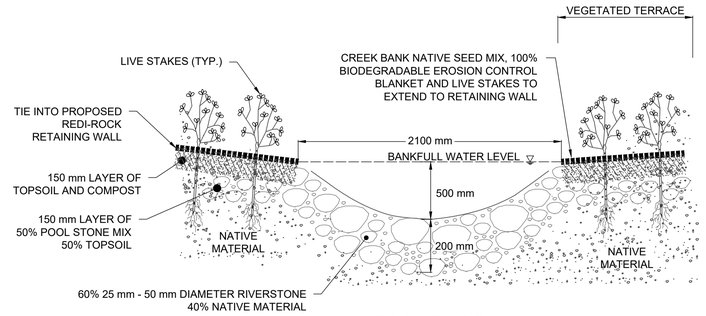
PROFILE



PLANFORM

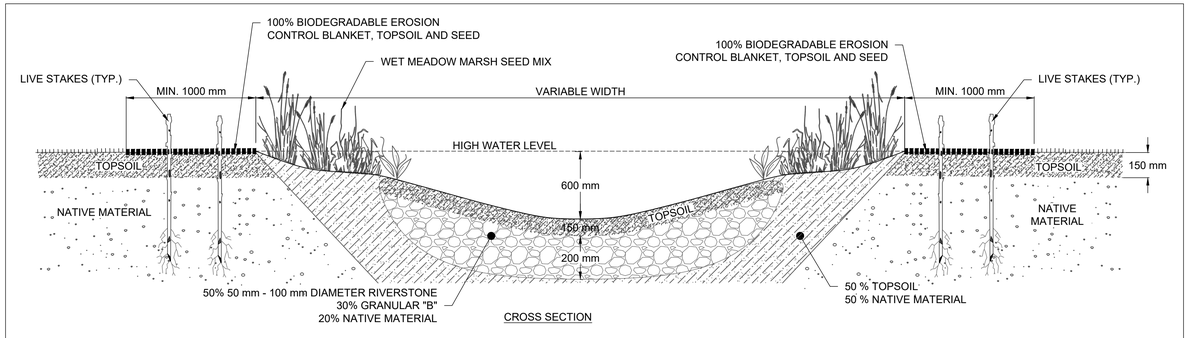


CASCADE CROSS SECTION

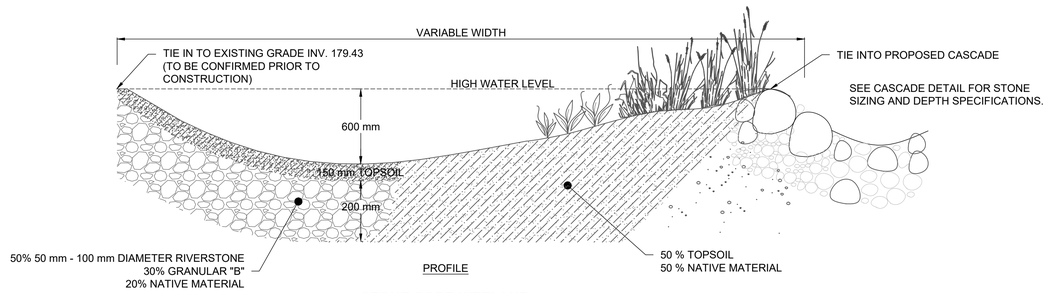


POOL CROSS SECTION

TYPICAL CASCADE
N.T.S.



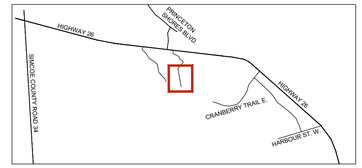
CROSS SECTION



PROFILE

STONE CORE WETLAND
N.T.S

SCALED FOR PLOT ON 'ARCH D'



KEY MAP
N.T.S.

GENERAL NOTES

1. ALL CONTRACT DRAWINGS, SPECIFICATIONS AND APPLICABLE PERMITS MUST BE KEPT ON SITE DURING CONSTRUCTION FOR REFERENCE.
2. THE CONTRACTOR MUST NOTIFY THE CONTRACT ADMINISTRATOR AND CONSERVATION AUTHORITY OF THE INTENT TO COMMENCE WORK AT LEAST 48 HOURS IN ADVANCE.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES.
4. LAYOUT MUST BE REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR.

TIMING OF WORKS

1. WORKS SHALL BE COMPLETED BETWEEN JULY 1ST TO MARCH 31ST.
2. TREE CLEARING SHOULD BE COMPLETED OUTSIDE THE BIRD NESTING SEASON TO COMPLY WITH THE FEDERAL MIGRATORY BIRDS CONVENTION ACT. ANY TREES THAT REQUIRE REMOVAL OUTSIDE OF THIS TIMING WINDOW MUST FIRST BE INSPECTED BY A QUALIFIED BIOLOGIST TO DETERMINE THE PRESENCE OF NESTING BIRDS.
3. THE WEATHER FORECAST SHOULD BE CONTINUALLY MONITORED TO ENSURE THAT WORKS ARE UNDERTAKEN ONLY DURING FAVOURABLE WEATHER CONDITIONS.
4. COMPLETE THE WORKS WITH MINIMAL AVOIDABLE INTERRUPTIONS ONCE THEY COMMENCE.

SITE AND MATERIAL MANAGEMENT

1. ALL CONSTRUCTION EQUIPMENT AND MATERIALS (IMPORTED OR EXCAVATED) MUST BE STORED AT LEAST 30 m AWAY FROM ANY WATERBODY IN A STABLE AREA ABOVE THE ACTIVE FLOODPLAIN, OR IN A DESIGNATED STAGING/STORAGE AREA.
2. IN THE EVENT OF AN UNEXPECTED STORM, ALL UNFIXED ITEMS THAT HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW MUST BE MOVED A STABLE AREA ABOVE ACTIVE FLOODPLAIN.
3. STOCKPILES MUST BE LOCATED OUTSIDE THE ISOLATED WORK AREAS.
4. STABILIZE STOCKPILED SOILS THAT ARE STORED FOR PROLONGED PERIODS WITH THE APPLICATION OF A NURSE CROP AT A RATE OF 60 kg/ha.
5. STABILIZE, TEMPORARILY OR PERMANENTLY, ANY DISTURBED AREAS AS WORK PROGRESSES, OR SOON AS CONDITIONS ALLOW. ON SOILS THAT WILL BE EXPOSED FOR PROLONGED PERIODS, TEMPORARILY INSTALL A BIODEGRADABLE EROSION CONTROL BLANKET ON EXPOSED SOILS, OR APPLY A NURSE CROP AT A RATE OF 60 KG/HA.
6. MINIMIZE THE AREA OF DISTURBANCE TO THE EXTENT POSSIBLE.
7. ALL VEGETATION, ADJACENT TO THE WORK AREA, MUST BE PROTECTED AND DELINEATED WITH CONSTRUCTION FENCING OR TREE PROTECTION BARRIERS.
8. ALL GRADES IN THE AREA REGULATED BY THE CONSERVATION AUTHORITY MUST BE MAINTAINED OR MATCHED, UNLESS OTHERWISE AUTHORIZED IN THE APPLICABLE PERMIT.

EROSION AND SEDIMENT CONTROL

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO START OF WORKS.
2. SEDIMENT CONTROLS MUST BE INSPECTED DAILY TO ENSURE THAT THEY ARE IN GOOD REPAIR AND FUNCTIONING AS INTENDED.
3. EROSION AND SEDIMENT CONTROLS MUST BE MAINTAINED DURING CONSTRUCTION, AND ANY REQUIRED REPAIRS OR REPLACEMENTS MUST BE COMPLETED WITHIN 24 HOURS AFTER THEY HAVE BEEN IDENTIFIED DURING THE MONITORING.
4. EROSION AND SEDIMENT CONTROLS MAY REQUIRE PERIODIC ADJUSTMENTS TO REFLECT CHANGING SITE CONDITIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THESE ADJUSTMENTS TO ENSURE PROPER FUNCTION.
5. ANY CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN BEYOND MINOR ADJUSTMENTS MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON SITE IN ORDER TO FACILITATE IMMEDIATE REPAIRS AND/OR UPGRADES AS NEEDED.
7. ALL TEMPORARY SEDIMENT CONTROLS MUST BE REMOVED AFTER THE CONTRACT ADMINISTRATOR DEEMS THE SITE TO BE STABLE.
8. ANY ADJUSTMENTS TO EROSION AND SEDIMENT CONTROLS MADE BY THE CONTRACTOR WILL BE DOCUMENTED IN WRITING.

DELETERIOUS SUBSTANCE CONTROL/SPILL MANAGEMENT

1. PREVENT THE RELEASE OF SEDIMENT, SEDIMENT-LADEN WATER, RAW CONCRETE, CONCRETE LEACHATE OR ANY OTHER DELETERIOUS SUBSTANCES INTO ANY WATERBODY, RAVINE OR STORM SEWER SYSTEM.
2. ENSURE EQUIPMENT AND MACHINERY ARE IN GOOD OPERATING CONDITION (POWER WASHED), FREE OF LEAKS, EXCESS OIL, AND GREASE.
3. NO EQUIPMENT REFUELLING OR SERVICING SHOULD BE UNDERTAKEN WITHIN 30 m OF ANY WATERCOURSE OR SURFACE WATER DRAINAGE.
4. A SPILL CONTAINMENT KIT MUST BE READILY ACCESSIBLE ON SITE IN THE EVENT OF A RELEASE OF A DELETERIOUS SUBSTANCE TO THE ENVIRONMENT. ONSITE STAFF MUST BE TRAINED IN ITS USE.
5. THE CONTRACT ADMINISTRATOR MUST BE NOTIFIED IMMEDIATELY IN THE EVENT OF A SPILL OF DELETERIOUS SUBSTANCE.

WORK AREA ISOLATION

1. ALL WORK IN ISOLATED WORK AREAS MUST BE COMPLETED IN THE DRY. AN ADEQUATE NUMBER OF PUMPS MUST BE USED FOR UNWATERING.
2. THE UNWATERING DISCHARGE LOCATION MUST BE LOCATED AT LEAST 30 M FROM ANY WATERCOURSE OR WETLAND IN AN AREA WITH DENSE VEGETATIVE GROUNDCOVER, AND WHERE THE DISCHARGE CAN RETURN TO THE WATERBODY DOWNSTREAM OF THE WORK AREA OVER THE GROUNDCOVER.
3. FISH MUST BE REMOVED FROM THE WORK AREA ONCE ISOLATED. FISH SALVAGE MUST BE COMPLETED BY A QUALIFIED TECHNICIAN WITH A LICENSE FROM THE ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY.

1.	2023-02-07	BWM	THIRD SUBMISSION
	DATE	BY	REVISIONS

DESIGNED BY: P.V.	CHECKED BY: P.V.
DRAWN BY: B.W.M.	DATE: FEBRUARY 2023

PROFESSIONAL GEOSCIENTIST ONTARIO
PAUL V. VILLARD
PRACTISING MEMBER
0957
2023-02-07

GEO MORPHIX™
36 Main Street North, PO Box 205
Campbellville, Ontario L0P 1B0
T: 416.920.0926
www.geomorphix.com

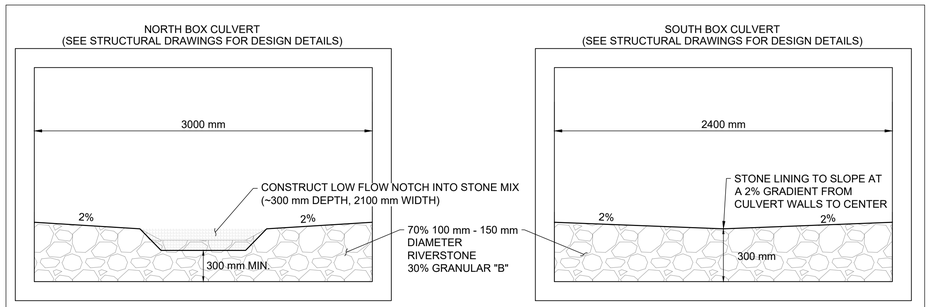
WYLDEWOOD CREEK
BRANDY LANE HOMES

CHANNEL RESTORATION DESIGN
RESTORATION DETAILS

PROJECT No.: 21032	DRAWING No.: DET-1
SCALE: AS NOTED	SHEET 2 OF 4

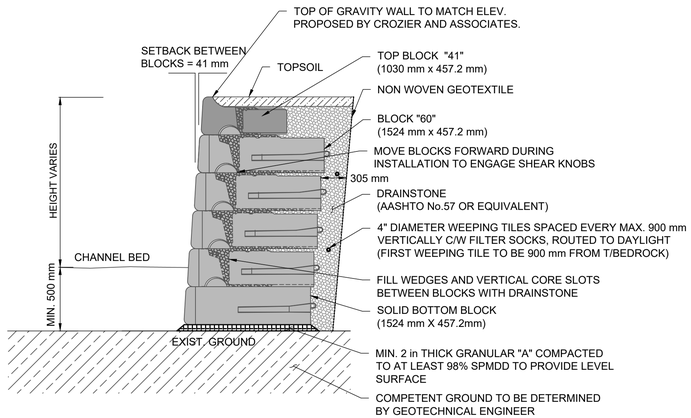
CHANNEL SUBSTRATE NOTES

1. SUBSTRATES TO BE COMPACTED TO 90% SPD TO PREVENT PIPING/FLOW-THROUGH.
2. FINE NATIVE MATERIAL TO BE ADDED TO SUBSTRATE MIX TO FILL INTERSTITIAL VOIDS, AS REQUIRED.
3. GRANULAR 'B' TO BE SOURCED FROM PIT-RUN MATERIAL AND ROUNDED IN NATURE. NO CRUSHED ROCK, LIMESTONE OR POST-CONSTRUCTION MATERIALS ARE TO BE USED WITHIN THE CHANNEL. MATERIAL TO BE REVIEWED BY THE DESIGNER OR REPRESENTATIVE PRIOR TO INSTALLATION.



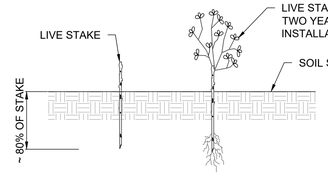
SUBSTRATE NOTE: ADD FINE NATIVE MATERIAL OR GRANULAR "B" TO FILL INTERSTITIAL SPACE, TOPDRESS AS NEEDED, AND COMPACT TO PREVENT PIPING. SUBSTRATE DEPTHS TO BE CONFIRMED.

CHANNEL CROSS SECTIONS IN CULVERT
N.T.S.



TYPICAL REDI-ROCK GRAVITY RETAINING WALL (OR EQUIVALENT)
N.T.S

FINAL RETAINING WALL DESIGN SPECIFICATIONS TO BE CONFIRMED AND APPROVED BY ENGINEER.
NOTE: CONTRACTOR SHALL INSTALL WALL PER MANUFACTURER'S RECOMMENDATIONS AND WILL PROVIDE SHOP DRAWINGS.



SPECIES AND QUANTITIES

COMMON NAME	SCIENTIFIC NAME	QTY	CONDITION
RED OSIER DOGWOOD	*Cornus stolonifera*	150	1 m, BARE ROOT
PUSSY WILLOW	*Salix discolor*	150	1 m, BARE ROOT
SANDBAR WILLOW	*Salix exigua*	150	1 m, BARE ROOT

NOTES
1. QUANTITY TO BE DETERMINED BASED ON AREA OF DISTURBANCE TO BE RESTORED
2. LIVE STAKES SHOULD BE FROM AT MINIMUM 2-YEAR OLD STOCK.
3. LIVE STAKES ARE TO BE INSTALLED AT A DENSITY OF 3 STAKES PER SQUARE METRE.
4. LIVE STAKES SHOULD BE PRE-SOAKED (SUBMERGED IN WATER) FOR AT LEAST 24 HOURS AFTER HARVESTING AND IMMEDIATELY BEFORE INSTALLATION.
5. LIVE STAKES SHOULD NOT BE STORED FOR A PERIOD LONGER THAN 2 DAYS, UNLESS THEY ARE BEING SOAKED.
6. THE CONTRACTOR SHALL PROTECT PLANT MATERIALS FROM DRYING FROM THE TIME OF HARVEST UNTIL INSTALLED.
7. LIVE STAKES ARE TO BE A MINIMUM OF 25 mm IN DIAMETER AND CUT TO A LENGTH OF 1000 mm.
8. CUT ANGLE AT THE BOTTOM OF THE STAKE AND FLAT ON THE TOP.
9. TRIM ALL SIDE BRANCHES WHILE TAKING CARE NOT TO DAMAGE THE BARK.
10. INSTALL STAKES WITH BUDS POINTING UPWARDS AND THICKER STEM IN THE BED.
11. LIVE STAKES SHOULD BE INSTALLED USING A LARGE RUBBER MALLET.
12. 80% OF THE STAKE IS TO BE BELOW SURFACE.
13. TAMP THE LIVE STAKE INTO THE GROUND AT RIGHT ANGLE TO THE SURFACE.
14. IN COMPACT SOIL A PILOT HOLE SHOULD BE USED TO LIMIT DAMAGE TO THE STAKES.
15. IF USING A PILOT HOLE REPACK SOIL AROUND THE LIVE STAKE.
16. LIVE STAKES SHOULD STAND FIRM FROM THE SOIL FOLLOWING INSTALLATION.
17. ALL STAKES NOT PLANTED TO THE SPECIFICATIONS ABOVE WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

LIVE STAKE
N.T.S.

CREEK BANK NATIVE SEED MIX - OSC 8215

COMMON NAME	SPECIES
BIG BLUESTEM	*Andropogon gerardii*
NEW ENGLAND ASTER	*Aster novae-angliae*
FOX SEDGE	*Carex vulpinoidea*
BOTTLEBRUSH GRASS	*Elymus hystrix*
FOWL MANNGRASS	*Glyceria striata*
FOWL BLUEGRASS	*Poa palustris*
BLACK EYED SUSAN	*Rudbeckia hirta*

NOTES
1. SPECIES PERCENT OF MIX AS PER PRE-MIXED OSC SEED PACKET, OR EQUIVALENT.
2. APPLY SEED MIX AT A RATE OF 25 kg PER HECTARE.
3. SEEDING SHALL OVERLAP ADJACENT GROUND COVER BY 300 mm.
4. APPLY ANNUAL RYE GRASS / ANNUAL OATS NURSE CROP AT A RATE OF 30 kg PER HECTARE.

WET MEADOW MARSH SEED MIX - OSC 8195

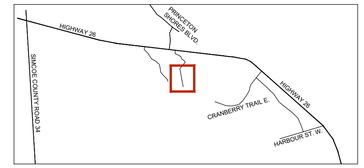
COMMON NAME	SPECIES
SWAMP MILKWEED	*Asclepias incarnate*
NEW ENGLAND ASTER	*Aster novae-angliae*
FLAT TOPPED ASTER	*Aster umbellatus*
FRINGED SEDGE	*Carex crinita*
BLUNT BROOM SEDGE	*Carex scoparia*
FOX SEDGE	*Carex vulpinoidea*
VIRGINIA WILD RYE	*Elymus virginicus*
SPOTTED JOE PYE WEED	*Eupatorium maculatum*
SOFT RUSH	*Juncus effusus*
RICE CUTGRASS	*Leersia oryzoides*
SQUARE STEMMED MONKEY FLOWER	*Mimulus ringens*
GREEN BULLRUSH	*Scirpus atrovirens*
WOOLGRASS	*Scirpus syperinus*
BLUE VERVIAN	*Verbena hastata*

NOTE: SEED IS TO BE PLACED PRIOR TO INSTALLATION OF EROSION CONTROL BLANKET AND IS TO HAVE GOOD CONTACT WITH THE SOIL.

EROSION CONTROL BLANKET SPECIFICATIONS

1. A BIODEGRADABLE EROSION CONTROL BLANKET (ECB) SHALL BE INSTALLED ON ALL DISTURBED NATURAL SURFACES FOLLOWING THE PLACEMENT OF TOPSOIL AND APPLICATION OF THE NATIVE SEED MIX.
2. THE ECB MUST BE CONSTRUCTED OF 100% WOVEN COCONUT FIBRE (E.G., COIR) OR STRAW MAT WITHIN A GEOJUTE NETTING (TOP AND BOTTOM) WITH BIODEGRADABLE THREAD. NON-BIODEGRADABLE MATERIAL INCLUDING POLYPROPELENE OR PLASTICS WITH A BIODEGRADABLE RATING ARE NOT ACCEPTABLE. THE MINIMUM WEIGHT OF THE ECB MUST BE 400 g/m^2 (12 oz./yd^2).
3. TO INSTALL, THE ECB MUST BE UNROLLED DOWNSLOPE OR IN DIRECTION OF WATER FLOW. ADJACENT ECBS SHOULD OVERLAP A MINIMUM OF 150 mm ALONG THE EDGES. AT THE END OF EACH ROLL, FOLD BACK 100 mm TO 200 mm OF THE ECB. OVERLAP THIS 100 mm TO 200 mm OVER THE START OF THE NEXT ROLL. SECURE THE TWO LAYERS TO THE GROUND SECURELY.
4. BIODEGRADABLE OR TAPERED WOODEN STAKES SHALL BE USED TO SECURE THE BLANKET. STAKES SHALL BE INSTALLED AT THE SPACING RECOMMENDED BY THE ECB MANUFACTURER TO PREVENT SURFACE RUNOFF FROM ERODING THE UNDERLYING SOIL.

SCALED FOR PLOT ON 'ARCH D'



N
N.T.S.

KEY MAP
N.T.S.

GENERAL NOTES

1. ALL CONTRACT DRAWINGS, SPECIFICATIONS AND APPLICABLE PERMITS MUST BE KEPT ON SITE DURING CONSTRUCTION FOR REFERENCE.
2. THE CONTRACTOR MUST NOTIFY THE CONTRACT ADMINISTRATOR AND CONSERVATION AUTHORITY OF THE INTENT TO COMMENCE WORK AT LEAST 48 HOURS IN ADVANCE.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES.
4. LAYOUT MUST BE REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR.

TIMING OF WORKS

1. WORKS SHALL BE COMPLETED BETWEEN JULY 1ST TO MARCH 31ST.
2. TREE CLEARING SHOULD BE COMPLETED OUTSIDE THE BIRD NESTING SEASON TO COMPLY WITH THE FEDERAL MIGRATORY BIRDS CONVENTION ACT. ANY TREES THAT REQUIRE REMOVAL OUTSIDE OF THIS TIMING WINDOW MUST FIRST BE INSPECTED BY A QUALIFIED BIOLOGIST TO DETERMINE THE PRESENCE OF NESTING BIRDS.
3. THE WEATHER FORECAST SHOULD BE CONTINUALLY MONITORED TO ENSURE THAT WORKS ARE UNDERTAKEN ONLY DURING FAVOURABLE WEATHER CONDITIONS.
4. COMPLETE THE WORKS WITH MINIMAL AVOIDABLE INTERRUPTIONS ONCE THEY COMMENCE.

SITE AND MATERIAL MANAGEMENT

1. ALL CONSTRUCTION EQUIPMENT AND MATERIALS (IMPORTED OR EXCAVATED) MUST BE STORED AT LEAST 30 m AWAY FROM ANY WATERBODY IN A STABLE AREA ABOVE THE ACTIVE FLOODPLAIN, OR IN A DESIGNATED STAGING/STORAGE AREA.
2. IN THE EVENT OF AN UNEXPECTED STORM, ALL UNFIXED ITEMS THAT HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW MUST BE MOVED A STABLE AREA ABOVE ACTIVE FLOODPLAIN.
3. STOCKPILES MUST BE LOCATED OUTSIDE THE ISOLATED WORK AREAS.
4. STABILIZE STOCKPILED SOILS THAT ARE STORED FOR PROLONGED PERIODS WITH THE APPLICATION OF A NURSE CROP AT A RATE OF 60 kg/ha.
5. STABILIZE, TEMPORARILY OR PERMANENTLY, ANY DISTURBED AREAS AS WORK PROGRESSES, OR SOON AS CONDITIONS ALLOW. ON SOILS THAT WILL BE EXPOSED FOR PROLONGED PERIODS, TEMPORARILY INSTALL A BIODEGRADABLE EROSION CONTROL BLANKET ON EXPOSED SOILS, OR APPLY A NURSE CROP AT A RATE OF 60 KG/HA.
6. MINIMIZE THE AREA OF DISTURBANCE TO THE EXTENT POSSIBLE.
7. ALL VEGETATION, ADJACENT TO THE WORK AREA, MUST BE PROTECTED AND DELINEATED WITH CONSTRUCTION FENCING OR TREE PROTECTION BARRIERS.
8. ALL GRADES IN THE AREA REGULATED BY THE CONSERVATION AUTHORITY MUST BE MAINTAINED OR MATCHED, UNLESS OTHERWISE AUTHORIZED IN THE APPLICABLE PERMIT.

EROSION AND SEDIMENT CONTROL

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO START OF WORKS.
2. SEDIMENT CONTROLS MUST BE INSPECTED DAILY TO ENSURE THAT THEY ARE IN GOOD REPAIR AND FUNCTIONING AS INTENDED.
3. EROSION AND SEDIMENT CONTROLS MUST BE MAINTAINED DURING CONSTRUCTION, AND ANY REQUIRED REPAIRS OR REPLACEMENTS MUST BE COMPLETED WITHIN 24 HOURS AFTER THEY HAVE BEEN IDENTIFIED DURING THE MONITORING.
4. EROSION AND SEDIMENT CONTROLS MAY REQUIRE PERIODIC ADJUSTMENTS TO REFLECT CHANGING SITE CONDITIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THESE ADJUSTMENTS TO ENSURE PROPER FUNCTION.
5. ANY CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN BEYOND MINOR ADJUSTMENTS MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON SITE IN ORDER TO FACILITATE IMMEDIATE REPAIRS AND/OR UPGRADES AS NEEDED.
7. ALL TEMPORARY SEDIMENT CONTROLS MUST BE REMOVED AFTER THE CONTRACT ADMINISTRATOR DEEMS THE SITE TO BE STABLE.
8. ANY ADJUSTMENTS TO EROSION AND SEDIMENT CONTROLS MADE BY THE CONTRACTOR WILL BE DOCUMENTED IN WRITING.

DELETERIOUS SUBSTANCE CONTROL/SPILL MANAGEMENT

1. PREVENT THE RELEASE OF SEDIMENT, SEDIMENT-LADEN WATER, RAW CONCRETE, CONCRETE LEACHATE OR ANY OTHER DELETERIOUS SUBSTANCES INTO ANY WATERBODY, RAVINE OR STORM SEWER SYSTEM.
2. ENSURE EQUIPMENT AND MACHINERY ARE IN GOOD OPERATING CONDITION (POWER WASHED), FREE OF LEAKS, EXCESS OIL, AND GREASE.
3. NO EQUIPMENT REFUELLING OR SERVICING SHOULD BE UNDERTAKEN WITHIN 30 m OF ANY WATERCOURSE OR SURFACE WATER DRAINAGE.
4. A SPILL CONTAINMENT KIT MUST BE READILY ACCESSIBLE ON SITE IN THE EVENT OF A RELEASE OF A DELETERIOUS SUBSTANCE TO THE ENVIRONMENT. ONSITE STAFF MUST BE TRAINED IN ITS USE.
5. THE CONTRACT ADMINISTRATOR MUST BE NOTIFIED IMMEDIATELY IN THE EVENT OF A SPILL OF DELETERIOUS SUBSTANCE.

WORK AREA ISOLATION

1. ALL WORK IN ISOLATED WORK AREAS MUST BE COMPLETED IN THE DRY. AN ADEQUATE NUMBER OF PUMPS MUST BE USED FOR UNWATERING.
2. THE UNWATERING DISCHARGE LOCATION MUST BE LOCATED AT LEAST 30 M FROM ANY WATERCOURSE OR WETLAND IN AN AREA WITH DENSE VEGETATIVE GROUNDCOVER, AND WHERE THE DISCHARGE CAN RETURN TO THE WATERBODY DOWNSTREAM OF THE WORK AREA OVER THE GROUNDCOVER.
3. FISH MUST BE REMOVED FROM THE WORK AREA ONCE ISOLATED. FISH SALVAGE MUST BE COMPLETED BY A QUALIFIED TECHNICIAN WITH A LICENSE FROM THE ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY.

1.	2023-02-07	BWM	THIRD SUBMISSION
	DATE	BY	REVISIONS

DESIGNED BY: P.V.	CHECKED BY: P.V.
DRAWN BY: B.W.M.	DATE: FEBRUARY 2023

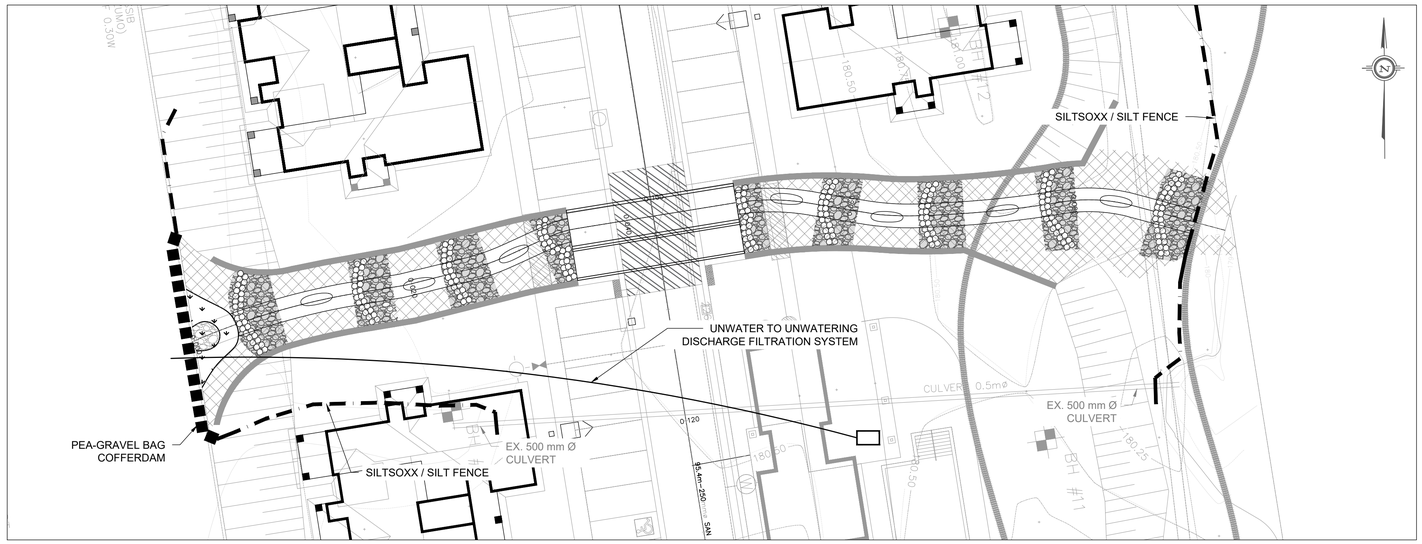
PROFESSIONAL GEOSCIENTIST
PAUL V. VILLARD
PRACTISING MEMBER
0957
ONTARIO
2023-02-07

GEO MORPHIX™
36 Main Street North, PO Box 205
Campbellville, Ontario L0P 1B0
T: 416.920.0926
www.geomorphix.com

WYLDEWOOD CREEK
BRANDY LANE HOMES

CHANNEL RESTORATION DESIGN
RESTORATION DETAILS

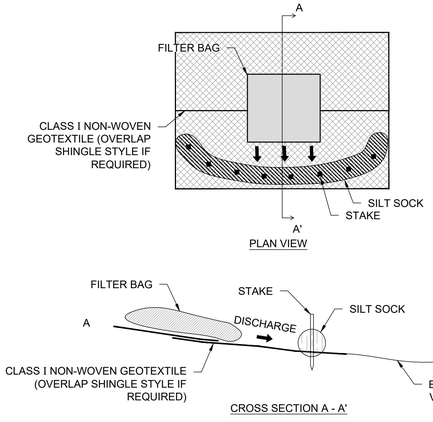
PROJECT No.: 21032	DRAWING No.: DET-2
SCALE: AS NOTED	SHEET 3 OF 4



SUGGESTED SEQUENCE OF CONSTRUCTION

1. CONSTRUCTION CONTRACT ADMINISTRATOR TO REVIEW SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. MONITOR WEATHER TO ENSURE IN-WATER WORKS ARE COMPLETED UNDER LOW-FLOW CONDITIONS.
3. INSTALL PERIMETER CONTROL SILTSOXX / SILT FENCE AROUND WORK AREA (AS DEEMED NECESSARY BY THE CONTRACT ADMINISTRATOR, TO BE FIELD LOCATED AS REQUIRED).
4. INSTALL COFFERDAMS ENSURING COMPLETE ISOLATION OF WORK AREA (SEE PLAN).
5. IF REQUIRED, CONDUCT FISH AND AMPHIBIAN RESCUE FROM ISOLATED WORK AREAS. FISH RESCUE MUST BE COMPLETED BY A QUALIFIED TECHNICIAN WITH A LICENSE FROM THE ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY.
6. UNWATER WORK AREAS TO UNWATERING DISCHARGE FILTRATION SYSTEM AS REQUIRED TO CONDUCT WORK UNDER 'DRY' CONDITIONS.
7. INSTALL RETAINING WALLS.
8. INSTALL CASCADE AND POOLS.
9. INSTALL STONE CORE WETLAND.
10. INSTALL VEGETATED TERRACE AND ASSOCIATED SUBSTRATES.
11. STABILIZE CHANNEL CORRIDOR WITH SEED, BIODEGRADABLE EROSION CONTROL BLANKET, AND LIVESTAKES.
12. REMOVE COFFERDAMS AND INTRODUCE FLOWS TO THE CONSTRUCTED CHANNEL ONCE THE SITE HAS BEEN DEEMED STABLE BY THE DESIGNER.
13. ENSURE FLOWS ARE NOT ENTERING OLD CHANNEL. IF REQUIRED, CONDUCT FISH AND AMPHIBIAN RESCUE FROM ISOLATED EXISTING CHANNEL AREAS. FISH RESCUE MUST BE COMPLETED BY A QUALIFIED TECHNICIAN WITH A LICENSE FROM THE ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY. REMOVE EX. CULVERT AND FILL AS REQUIRED.
14. STABILIZE AREAS DISTURBED FROM CONSTRUCTION ACTIVITIES WITH SEED AND BIODEGRADABLE EROSION CONTROL BLANKET, AS REQUIRED.
15. RESTORE SURFACES DISTURBED BY THE CONSTRUCTION WORK OR STAGING AREA(S) TO ORIGINAL CONDITION.

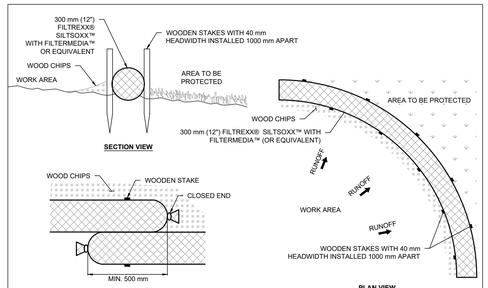
NOTE: STEPS 7-10 CAN COINCIDE DURING CONSTRUCTION



CROSS SECTION A - A'

NOTES
1. SELECT LOCATION OF FILTRATION SYSTEM TO ENSURE PLACEMENT ON WELL-VEGETATED SURFACE AT LEAST 30 m FROM CHANNEL.
2. PLACE NON-WOVEN GEOTEXTILE ON WELL-VEGETATED SURFACE. OVERLAP NON-WOVEN GEOTEXTILE SHINGLE STYLE, IF REQUIRED.
3. SECURE SILT SOCK WITH STAKES AT 0.5 m O/C.
4. ENSURE CONTINUOUS AND FIRM CONTACT BETWEEN SILT SOCK AND NON-WOVEN GEOTEXTILE/GROUND.
5. REPLACE FILTER BAG AS REQUIRED TO ENSURE PROPER FUNCTION.

UNWATERING DISCHARGE FILTRATION SYSTEM
N.T.S.



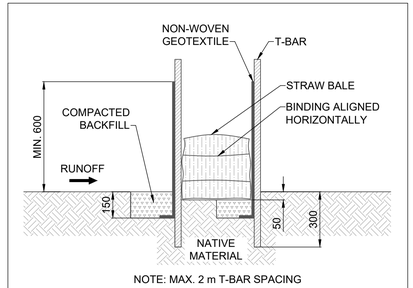
INSTALLATION NOTES

1. PERIMETER CONTROL WILL BE PLACED AT LOCATIONS INDICATED ON PLANS AND IN A MANNER AS DIRECTED BY THE ENGINEER OR MANUFACTURER.
2. PERIMETER CONTROL SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER DISTURBED AREA. IN CHALLENGING CONDITIONS (E.G., 2:1 SLOPES), A SECOND PERIMETER CONTROL SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE, OR STAKING MAY BE INCREASED.
3. EFFECTIVE SOXX HEIGHT IN THE FIELD SHOULD BE 12" DIAMETER SOXX (APPROXIMATELY 9" HIGH).
4. STAKES SHOULD BE INSTALLED ALTERNATELY AROUND THE PERIMETER CONTROL AT 1 m INTERVALS, USING 1 m WOODEN STAKES WITH 40 mm HEADWIDTH.
5. STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 300 mm AND 200 mm FOR CLAY SOILS.
6. STRAIGHTEN OR POSITION THE SOXX AS NEEDED ON THE GROUND, ENSURING THERE IS GOOD GROUND CONTACT AND NO VOID SPACES UNDER THE SOXX
7. DO NOT DRAG SOXX ACROSS ROUGH SURFACES TO PREVENT TEARING.
8. LOOSE WOOD CHIP MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE PERIMETER CONTROL, FILLING THE SEAM BETWEEN THE SOIL SURFACE AND THE DEVICE, IMPROVING FILTRATION AND SEDIMENT RETENTION.
9. IF THE PERIMETER CONTROL IS TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.

MAINTENANCE AND DISPOSAL NOTES

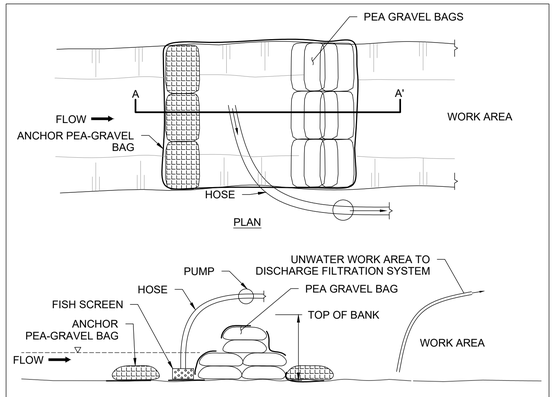
1. THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE PERIMETER WHEN ACCUMULATION HAS REACHED HALF OF THE EFFECTIVE HEIGHT OF THE SOCK, OR AS DIRECTED BY THE ENGINEER. ALTERNATIVELY, A NEW PERIMETER CONTROL SOCK CAN BE PLACED ON TOP OF AND SLIGHTLY BEHIND THE ORIGINAL ONE CREATING MORE SEDIMENT STORAGE CAPACITY WITHOUT SOIL DISTURBANCE.
2. PERIMETER CONTROL SHALL BE MAINTAINED UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED.
3. THE FILTERMEDIA (WOOD CHIP) WILL BE DISPERSED ON SITE ONCE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED, OR AS DETERMINED BY THE ENGINEER.

FILTREXX® SILTSOXX™ (OR EQUIVALENT)
N.T.S.



NOTE: MAX. 2 m T-BAR SPACING

STRAW BALE REINFORCED DOUBLE SILT FENCE
N.T.S.

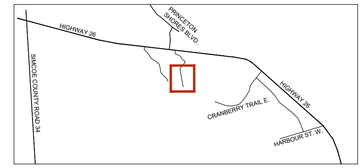


SECTION A - A'

NOTES
1. PUMPING RATE MUST MATCH WORKING FLOW CONDITIONS.
2. BAGS TO BE FILLED WITH PEA-GRAVEL.
3. BAGS TO BE INSTALLED TO MATCH EXISTING TOP OF BANK.
4. IMPERMEABLE BARRIER (PLASTIC SHEET) TO COVER THE BAGS TO LIMIT SEEPAGE INTO WORK AREA.
5. BACKUP PUMP AND HOSE SHALL BE KEPT ONSITE TO ADDRESS FAILURES AND HIGH FLOW CONDITIONS.
6. PEA-GRAVEL WITHIN BAGS TO BE DISPOSED OF OFFSITE ONCE CONSTRUCTION IS COMPLETE.

PEA-GRAVEL BAG COFFERDAM AND BYPASS PUMPING
N.T.S.

SCALED FOR PLOT ON 'ARCH D'



N
N.T.S.

KEY MAP
N.T.S.

GENERAL NOTES

1. ALL CONTRACT DRAWINGS, SPECIFICATIONS AND APPLICABLE PERMITS MUST BE KEPT ON SITE DURING CONSTRUCTION FOR REFERENCE.
2. THE CONTRACTOR MUST NOTIFY THE CONTRACT ADMINISTRATOR AND CONSERVATION AUTHORITY OF THE INTENT TO COMMENCE WORK AT LEAST 48 HOURS IN ADVANCE.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES.
4. LAYOUT MUST BE REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR.

TIMING OF WORKS

1. WORKS SHALL BE COMPLETED BETWEEN JULY 1ST TO MARCH 31ST.
2. TREE CLEARING SHOULD BE COMPLETED OUTSIDE THE BIRD NESTING SEASON TO COMPLY WITH THE FEDERAL MIGRATORY BIRDS CONVENTION ACT. ANY TREES THAT REQUIRE REMOVAL OUTSIDE OF THIS TIMING WINDOW MUST FIRST BE INSPECTED BY A QUALIFIED BIOLOGIST TO DETERMINE THE PRESENCE OF NESTING BIRDS.
3. THE WEATHER FORECAST SHOULD BE CONTINUALLY MONITORED TO ENSURE THAT WORKS ARE UNDERTAKEN ONLY DURING FAVOURABLE WEATHER CONDITIONS.
4. COMPLETE THE WORKS WITH MINIMAL AVOIDABLE INTERRUPTIONS ONCE THEY COMMENCE.

SITE AND MATERIAL MANAGEMENT

1. ALL CONSTRUCTION EQUIPMENT AND MATERIALS (IMPORTED OR EXCAVATED) MUST BE STORED AT LEAST 30 m AWAY FROM ANY WATERBODY IN A STABLE AREA ABOVE THE ACTIVE FLOODPLAIN, OR IN A DESIGNATED STAGING/STORAGE AREA.
2. IN THE EVENT OF AN UNEXPECTED STORM, ALL UNFIXED ITEMS THAT HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW MUST BE MOVED A STABLE AREA ABOVE ACTIVE FLOODPLAIN.
3. STOCKPILES MUST BE LOCATED OUTSIDE THE ISOLATED WORK AREAS.
4. STABILIZE STOCKPILED SOILS THAT ARE STORED FOR PROLONGED PERIODS WITH THE APPLICATION OF A NURSE CROP AT A RATE OF 60 kg/ha.
5. STABILIZE, TEMPORARILY OR PERMANENTLY, ANY DISTURBED AREAS AS WORK PROGRESSES, OR SOON AS CONDITIONS ALLOW. ON SOILS THAT WILL BE EXPOSED FOR PROLONGED PERIODS, TEMPORARILY INSTALL A BIODEGRADABLE EROSION CONTROL BLANKET ON EXPOSED SOILS, OR APPLY A NURSE CROP AT A RATE OF 60 KG/HA.
6. MINIMIZE THE AREA OF DISTURBANCE TO THE EXTENT POSSIBLE.
7. ALL VEGETATION, ADJACENT TO THE WORK AREA, MUST BE PROTECTED AND DELINEATED WITH CONSTRUCTION FENCING OR TREE PROTECTION BARRIERS.
8. ALL GRADES IN THE AREA REGULATED BY THE CONSERVATION AUTHORITY MUST BE MAINTAINED OR MATCHED, UNLESS OTHERWISE AUTHORIZED IN THE APPLICABLE PERMIT.

EROSION AND SEDIMENT CONTROL

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO START OF WORKS.
2. SEDIMENT CONTROLS MUST BE INSPECTED DAILY TO ENSURE THAT THEY ARE IN GOOD REPAIR AND FUNCTIONING AS INTENDED.
3. EROSION AND SEDIMENT CONTROLS MUST BE MAINTAINED DURING CONSTRUCTION, AND ANY REQUIRED REPAIRS OR REPLACEMENTS MUST BE COMPLETED WITHIN 24 HOURS AFTER THEY HAVE BEEN IDENTIFIED DURING THE MONITORING.
4. EROSION AND SEDIMENT CONTROLS MAY REQUIRE PERIODIC ADJUSTMENTS TO REFLECT CHANGING SITE CONDITIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THESE ADJUSTMENTS TO ENSURE PROPER FUNCTION.
5. ANY CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN BEYOND MINOR ADJUSTMENTS MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON SITE IN ORDER TO FACILITATE IMMEDIATE REPAIRS AND/OR UPGRADES AS NEEDED.
7. ALL TEMPORARY SEDIMENT CONTROLS MUST BE REMOVED AFTER THE CONTRACT ADMINISTRATOR DEEMS THE SITE TO BE STABLE.
8. ANY ADJUSTMENTS TO EROSION AND SEDIMENT CONTROLS MADE BY THE CONTRACTOR WILL BE DOCUMENTED IN WRITING.

DELETERIOUS SUBSTANCE CONTROL/SPILL MANAGEMENT

1. PREVENT THE RELEASE OF SEDIMENT, SEDIMENT-LADEN WATER, RAW CONCRETE, CONCRETE LEACHATE OR ANY OTHER DELETERIOUS SUBSTANCES INTO ANY WATERBODY, RAVINE OR STORM SEWER SYSTEM.
2. ENSURE EQUIPMENT AND MACHINERY ARE IN GOOD OPERATING CONDITION (POWER WASHED), FREE OF LEAKS, EXCESS OIL, AND GREASE.
3. NO EQUIPMENT REFUELLING OR SERVICING SHOULD BE UNDERTAKEN WITHIN 30 m OF ANY WATERCOURSE OR SURFACE WATER DRAINAGE.
4. A SPILL CONTAINMENT KIT MUST BE READILY ACCESSIBLE ON SITE IN THE EVENT OF A RELEASE OF A DELETERIOUS SUBSTANCE TO THE ENVIRONMENT. ONSITE STAFF MUST BE TRAINED IN ITS USE.
5. THE CONTRACT ADMINISTRATOR MUST BE NOTIFIED IMMEDIATELY IN THE EVENT OF A SPILL OF DELETERIOUS SUBSTANCE.

WORK AREA ISOLATION

1. ALL WORK IN ISOLATED WORK AREAS MUST BE COMPLETED IN THE DRY. AN ADEQUATE NUMBER OF PUMPS MUST BE USED FOR UNWATERING.
2. THE UNWATERING DISCHARGE LOCATION MUST BE LOCATED AT LEAST 30 M FROM ANY WATERCOURSE OR WETLAND IN AN AREA WITH DENSE VEGETATIVE GROUNDCOVER, AND WHERE THE DISCHARGE CAN RETURN TO THE WATERBODY DOWNSTREAM OF THE WORK AREA OVER THE GROUNDCOVER.
3. FISH MUST BE REMOVED FROM THE WORK AREA ONCE ISOLATED. FISH SALVAGE MUST BE COMPLETED BY A QUALIFIED TECHNICIAN WITH A LICENSE FROM THE ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY.

1.	2023-02-07	BWM	THIRD SUBMISSION
	DATE	BY	REVISIONS

DESIGNED BY: P.V. | CHECKED BY: P.V.
DRAWN BY: B.W.M. | DATE: FEBRUARY 2023

PROFESSIONAL GEOSCIENTIST
PAUL V. VILLARD
PRACTISING MEMBER
0957
ONTARIO
2023-02-07

GEO MORPHIX™
36 Main Street North, PO Box 205
Campbellville, Ontario L0P 1B0
T: 416.920.0926
www.geomorphix.com

WYLDEWOOD CREEK
BRANDY LANE HOMES

CHANNEL RESTORATION DESIGN
RESTORATION DETAILS

PROJECT No.: 21032 | DRAWING No.: PESC
SCALE: AS NOTED | SHEET 4 OF 4