

KEY MAP

DRAWING INDEX

<u>DRAWING No.</u>	<u>REV. No.</u>	<u>DATE</u>	<u>DESCRIPTION</u>
000	0	JUN 2021	COVER SHEET
001	0	JUN 2021	QUATERNAY WATERSHED
002	0	JUN 2021	WATERSHED PLAN
003	0	JUN 2021	PRE-DEVELOPMENT PLAN
004	0	JUN 2021	POST-DEVELOPMENT PLAN
005	0	JUN 2021	GRADING PLAN
006	0	JUN 2021	ROAD CROSS-SECTIONS
007	0	JUN 2021	ROAD PROFILE
008	0	JUN 2021	SEDIMENT CONTROL PLAN
009	0	JUN 2021	SEDIMENT CONTROL DETAILS
010	0	JUN 2021	MUD-MAT & CHECKDAM PLAN & DETAILS
011	0	JUN 2021	POND CROSS-SECTION

RIVERVIEW HEIGHTS PHASE II DRAFT PLAN NO. 23T-98003

CAMELOT AT MINTO PART OF LOT 18 & 19, CONCESSION 12

TOWNSHIP OF MAPLETON COUNTY OF WELLINGTON

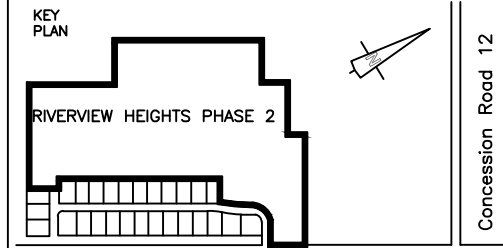
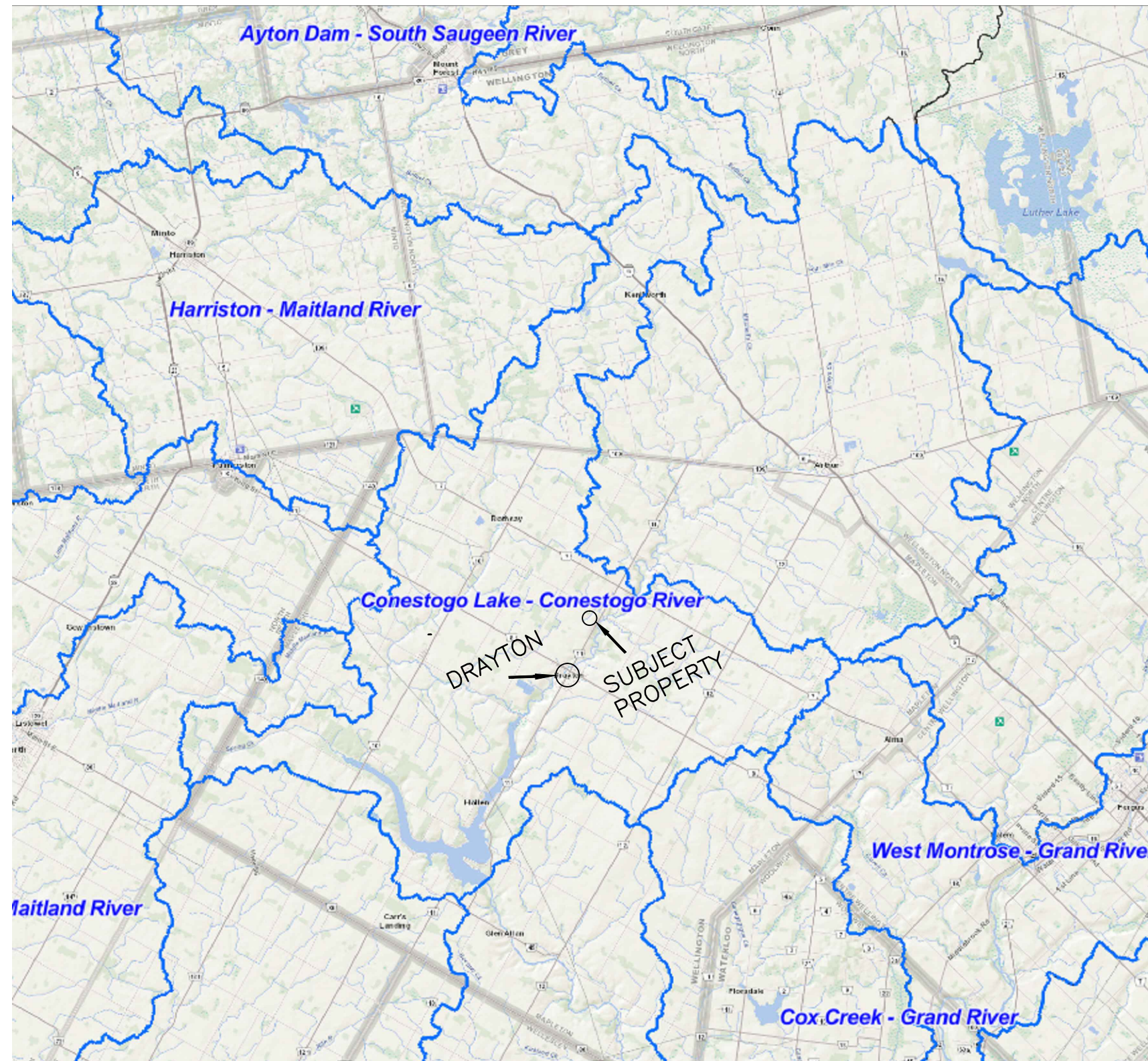
STORMWATER MANAGEMENT PLAN



ABEC

282 NEAL DR., RICHMOND HILL, ONT, L4C 3L4

JUN 2021



COUNTY ROAD #11

LEGEND

- PROPERTY LINE
- PROPOSED LOT LINE
- PROPOSED OVERLAND FLOW
- CATCHMENT BOUNDARY
- CATCHMENT I.D.
CATCHMENT AREA

NOTES:

1. MINIMUM PAVEMENT DESIGN
40mm H.B
60mm H.B
150mm GRANULAR 'A'
450mm GRANULAR 'B'
2. DITCHES TO BE TOPSOLED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
3. DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
4. WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION

THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

B. G. Drayton IN C.

3100 Steeles Ave West, Suite 500
Vaughan, ON L4K 3R1
Tel: 905-695-1953
Fax: 905-695-1954



DRAWING STATUS

Status	Date	Initial
ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.

RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

QUATERNAY WATERSHED

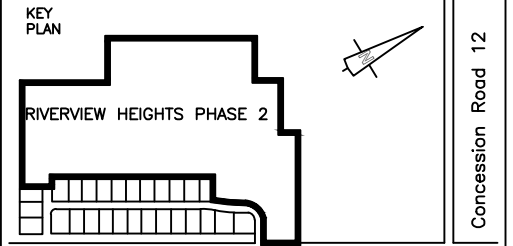
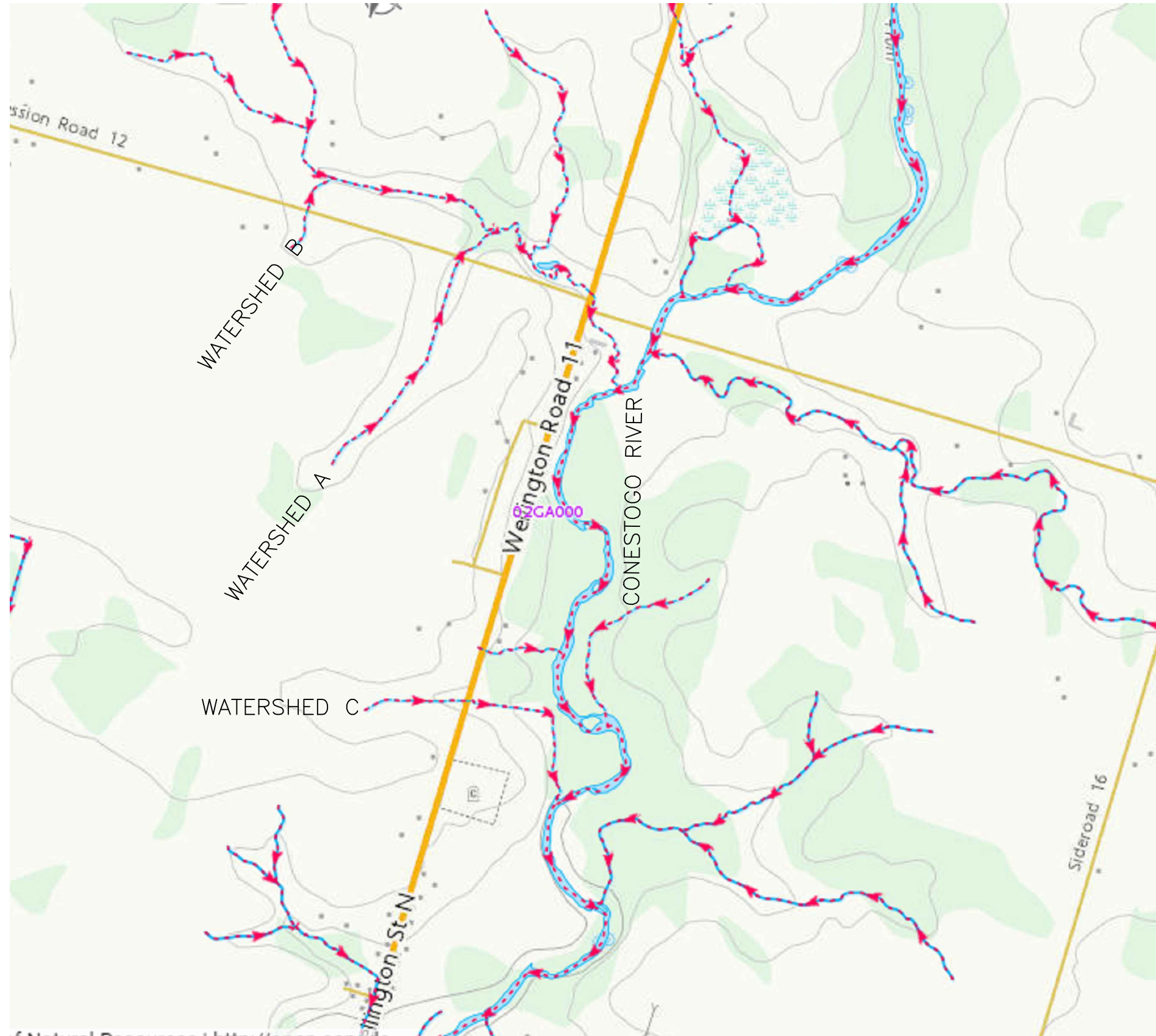


ABEC
20 STEELES DR.
RICHMOND HILL, ON L4K 3R4
Tel: 416-599-3001
Fax: 905-465-1954



Source Reference:

Project Manager: M. ROBATI	Reviewed By:	Date: JUNE 2021
Scale: N.T.S	Project No: 18983-00	Report No:
		Drawing No: 001



COUNTY ROAD #11

LEGEND

- PROPERTY LINE
- PROPOSED LOT LINE
- PROPOSED OVERLAND FLOW
- CATCHMENT BOUNDARY
- CATCHMENT I.D.
- CATCHMENT AREA

NOTES:

1. MINIMUM PAVEMENT DESIGN
40mm H.B
60mm H.B
150mm GRANULAR 'A'
450mm GRANULAR 'B'
2. DITCHES TO BE TOPSOLED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
3. DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
4. WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION

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B. G. Drayton INC.

3100 Steeles Ave West, Suite 500
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Tel: 905-695-1953
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DRAWING STATUS

ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.
Status	Date	Initial

RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

WATERSHED PLAN

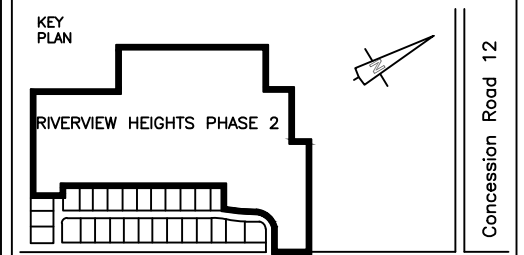
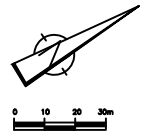
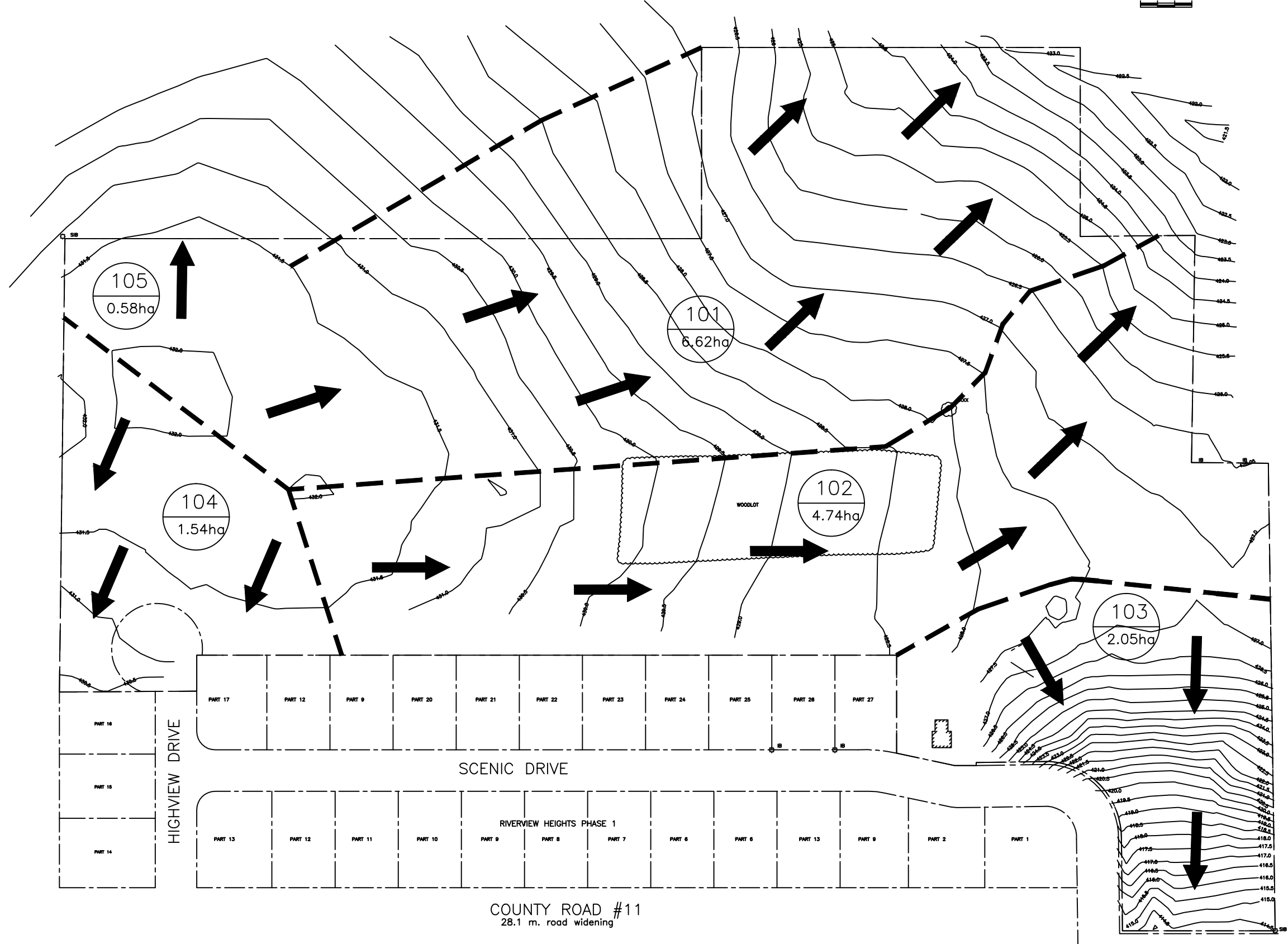


ABEC
23 STEELES DR.
RICHMOND HILL, ON L4K 3R4
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Fax: 905-465-1954



Source Reference:

Project Manager: M. ROBATI	Reviewed By:	Date: JUNE 2021
Scale: N.T.S	Project No: 18983-00	Report No: 002
		Drawing No: 002



Concession Road 12

COUNTY ROAD #11

LEGEND

- PROPERTY LINE
- PROPOSED LOT LINE
- PROPOSED OVERLAND FLOW
- CATCHMENT BOUNDARY
- 401
0.42ha CATCHMENT I.D.
CATCHMENT AREA

NOTES:

1. MINIMUM PAVEMENT DESIGN
40mm H.B
60mm H.B
150mm GRANULAR 'A'
450mm GRANULAR 'B'
2. DITCHES TO BE TOPSOLED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
3. DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
4. WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION

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B. G. Drayton IN C.

3100 Steeles Ave West, Suite 500
Vaughan, ON L4K 3R1
Tel: 905-695-1953
Fax: 905-695-1954



DRAWING STATUS

ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.
Status	Date	Initial

RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

PRE-DEVELOPMENT PLAN

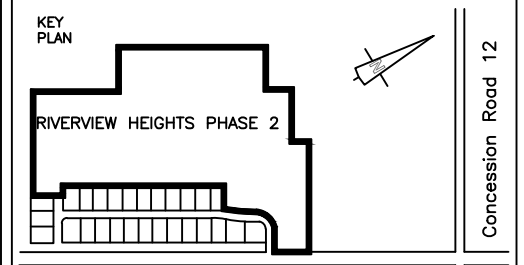
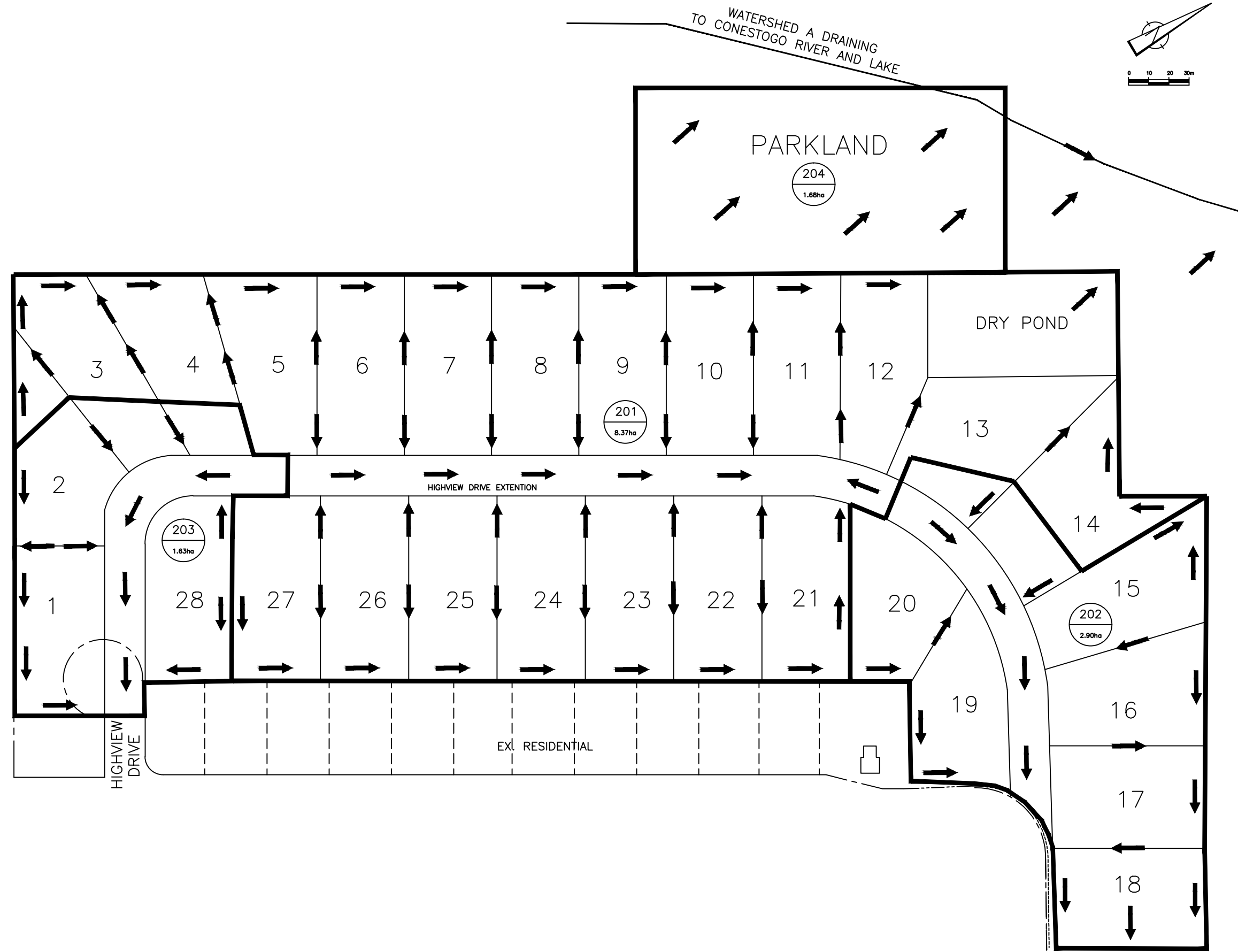


ABEC
23 SEAL DR.
RICHMOND HILL, ON L4C 3L4
Tel: 416-890-9011
Fax: 905-485-1954



Source Reference:

Project Manager: M. ROBATI	Reviewed By:	Date: JUNE 2021
Scale: 1:2000	Project No: 18983-00	Report No: Drawing No: 003



COUNTY ROAD #11

LEGEND

	PROPERTY LINE
	PROPOSED LOT LINE
	PROPOSED OVERLAND FLOW
	CATCHMENT BOUNDARY
	CATCHMENT I.D.
	CATCHMENT AREA

- NOTES:
- MINIMUM PAVEMENT DESIGN
40mm HLB
60mm HLB
150mm GRANULAR 'A'
450mm GRANULAR 'B'
 - DITCHES TO BE TOPSOILED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
 - DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
 - WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION

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DRAWING STATUS

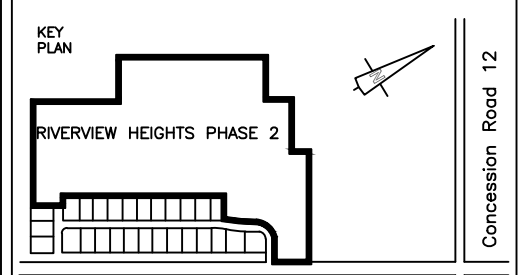
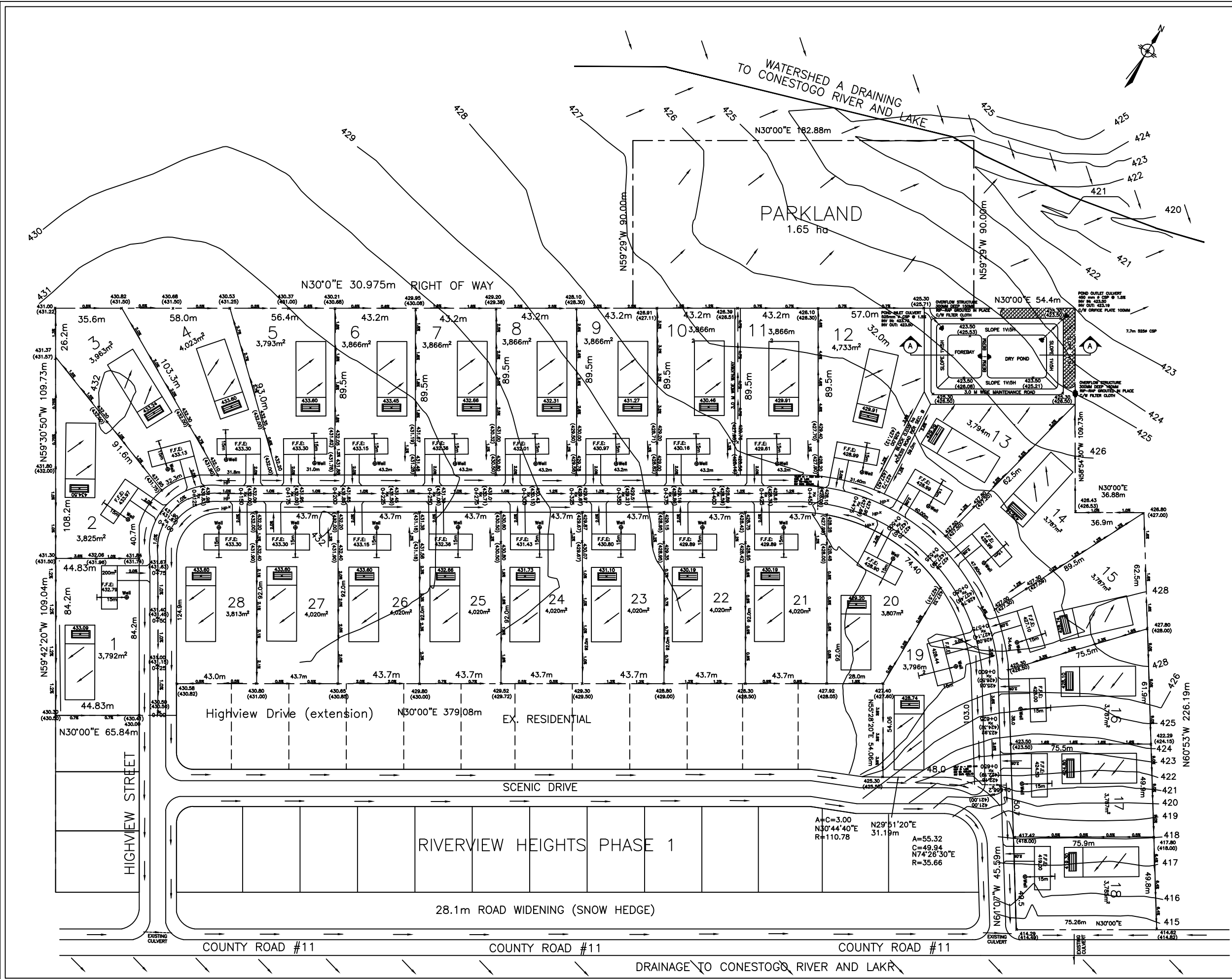
Status	Date	Initial
ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.

RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

POST-DEVELOPMENT PLAN

	ABEC 20 SEAL DR. RICHMOND HILL, ON L4C 3L4 Tel: 416-899-9001 Fax: 905-405-1954	
Source Reference:		
Project Manager: M. ROBATI	Reviewed By:	Date: JUNE 2021
Scale: 1:2000	Project No: 18983-00	Report No: Drawing No: 004



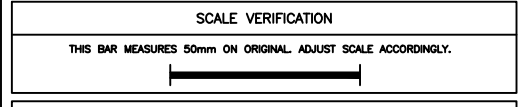
COUNTY ROAD #11

LEGEND

- PROPERTY LINE
- - - PROPOSED LOT LINE
- PROPOSED OVERLAND FLOW
- CATCHMENT BOUNDARY
- (426.00) EXISTING GRADE
- 426.00 PROPOSED GRADE
- ⊗ PROPOSED WELL LOCATION

NOTES:

- MINIMUM PAVEMENT DESIGN
40mm H.B.
60mm H.B.
150mm GRANULAR 'A'
450mm GRANULAR 'B'
- DITCHES TO BE TOPSOILED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
- DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
- WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.



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Issued To	Date	Initials
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RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

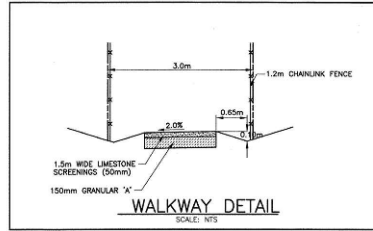
GRADING PLAN

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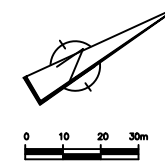
Project Manager: M. ROBATI
Reviewed By: M. ROBATI
Scale: 1:2000

Date: JUNE 2021

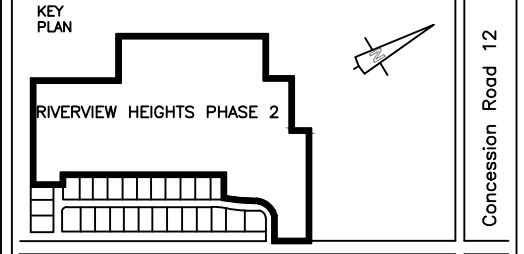
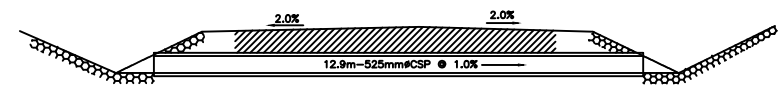
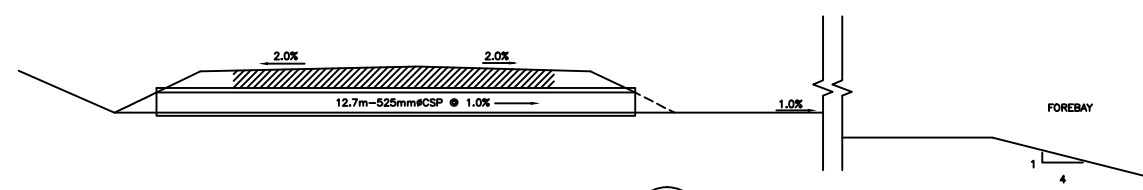
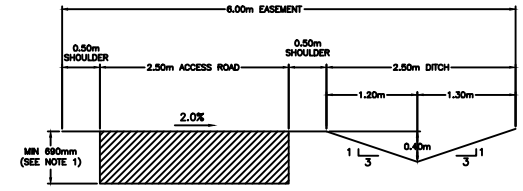
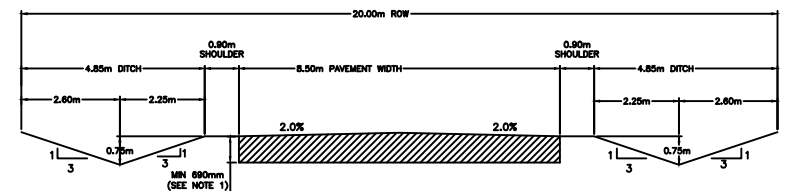
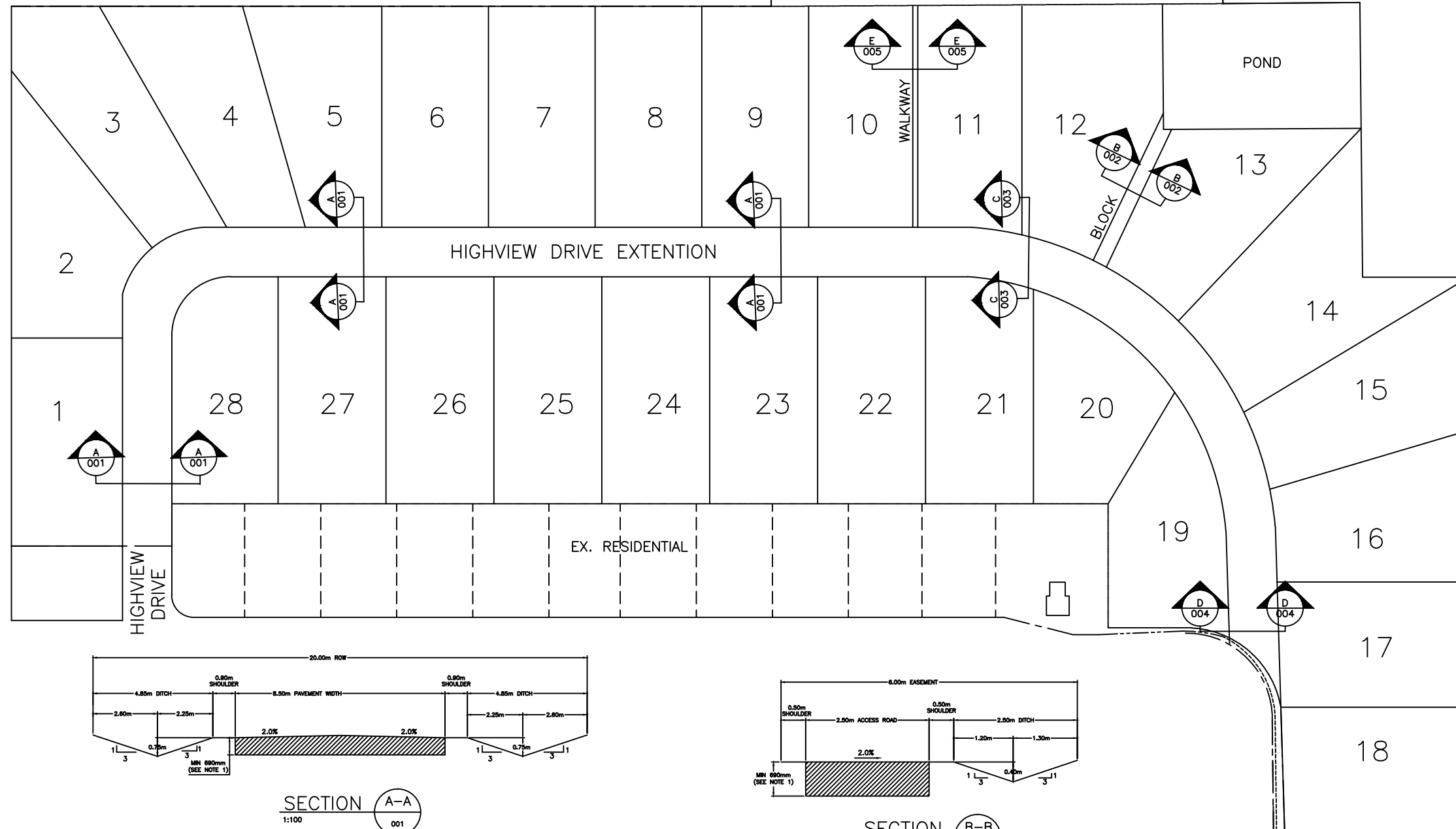
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Report No: 005
Drawing No: 005



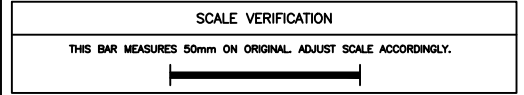
SECTION E-E
N.T.S. 005



PARKLAND



- LEGEND
- NOTES:
- MINIMUM PAVEMENT DESIGN
40mm HLB
60mm HLB
150mm GRANULAR 'A'
450mm GRANULAR 'B'
 - DITCHES TO BE TOPSOILED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
 - DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
 - WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.



B. G. Drayton IN C.

3100 Steeles Ave West, Suite 500
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Fax: 905-695-1954

DRAWING STATUS

Status	Date	Initial
ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.

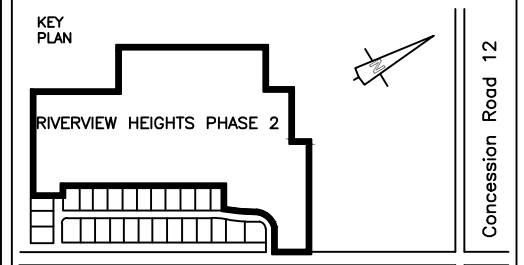
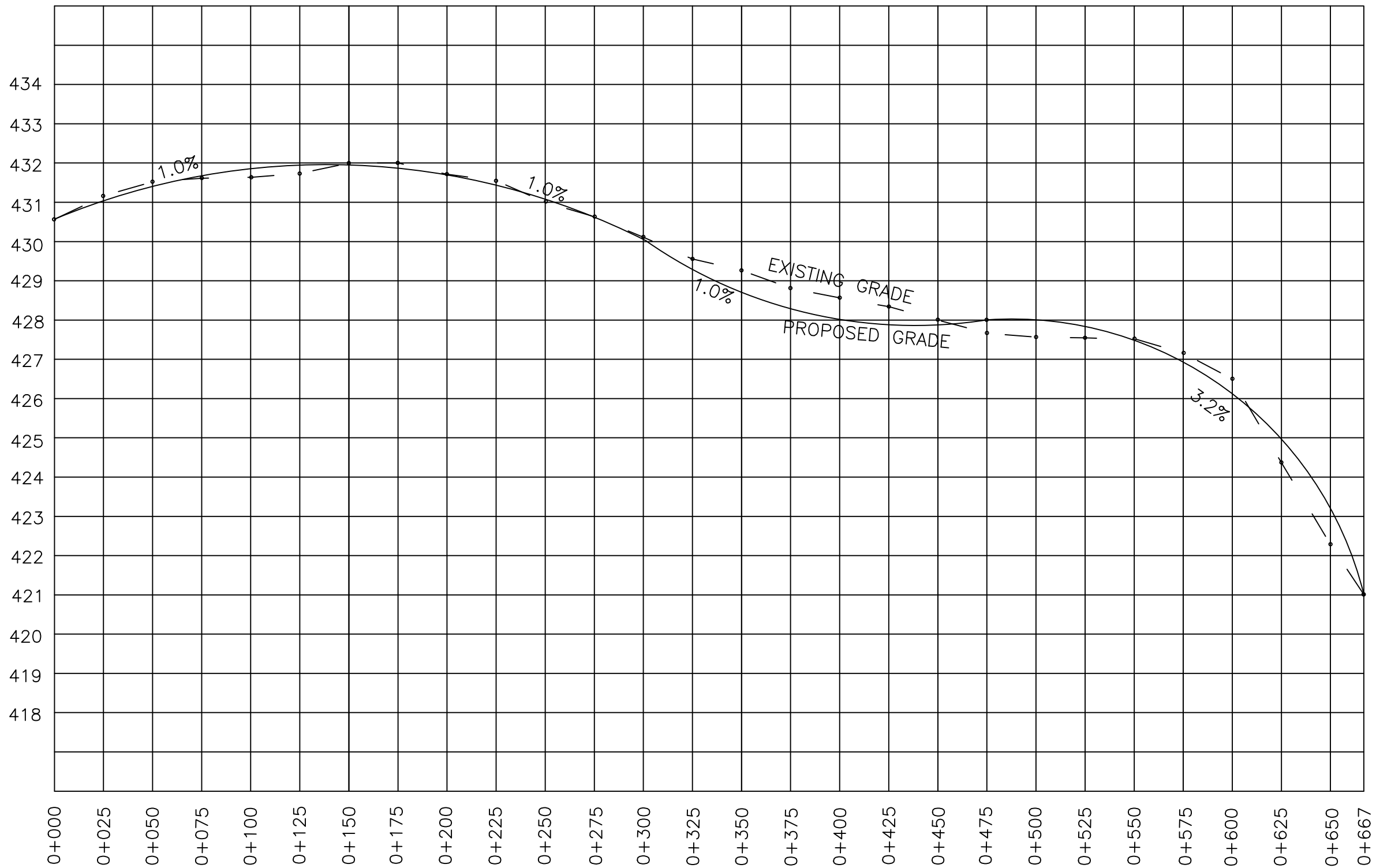
RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

ROAD CROSS-SECTIONS

Source Reference:

Project Manager: M. ROBATI	Reviewed By:	Date: JUNE 2021
Scale: 1:2000	Project No: 18983-00	Report No: 002 Drawing No: 006



Concession Road 12

COUNTY ROAD #11

LEGEND

- PROPERTY LINE
- PROPOSED LOT LINE
- PROPOSED OVERLAND FLOW
- CATCHMENT BOUNDARY
- CATCHMENT I.D.
CATCHMENT AREA

NOTES:

1. MINIMUM PAVEMENT DESIGN
40mm H.B
60mm H.B
150mm GRANULAR 'A'
450mm GRANULAR 'B'
2. DITCHES TO BE TOPSOILED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
3. DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
4. WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION

THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

B. G. Drayton IN C.

3100 Steeles Ave West, Suite 500
Vaughan, ON L4K 3R1
Tel: 905-695-1953
Fax: 905-695-1954



DRAWING STATUS

Status	Date	Initial
ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.

RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

ROAD PROFILE

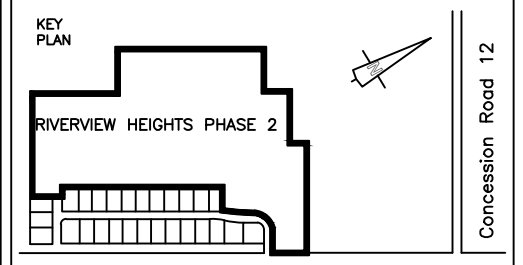
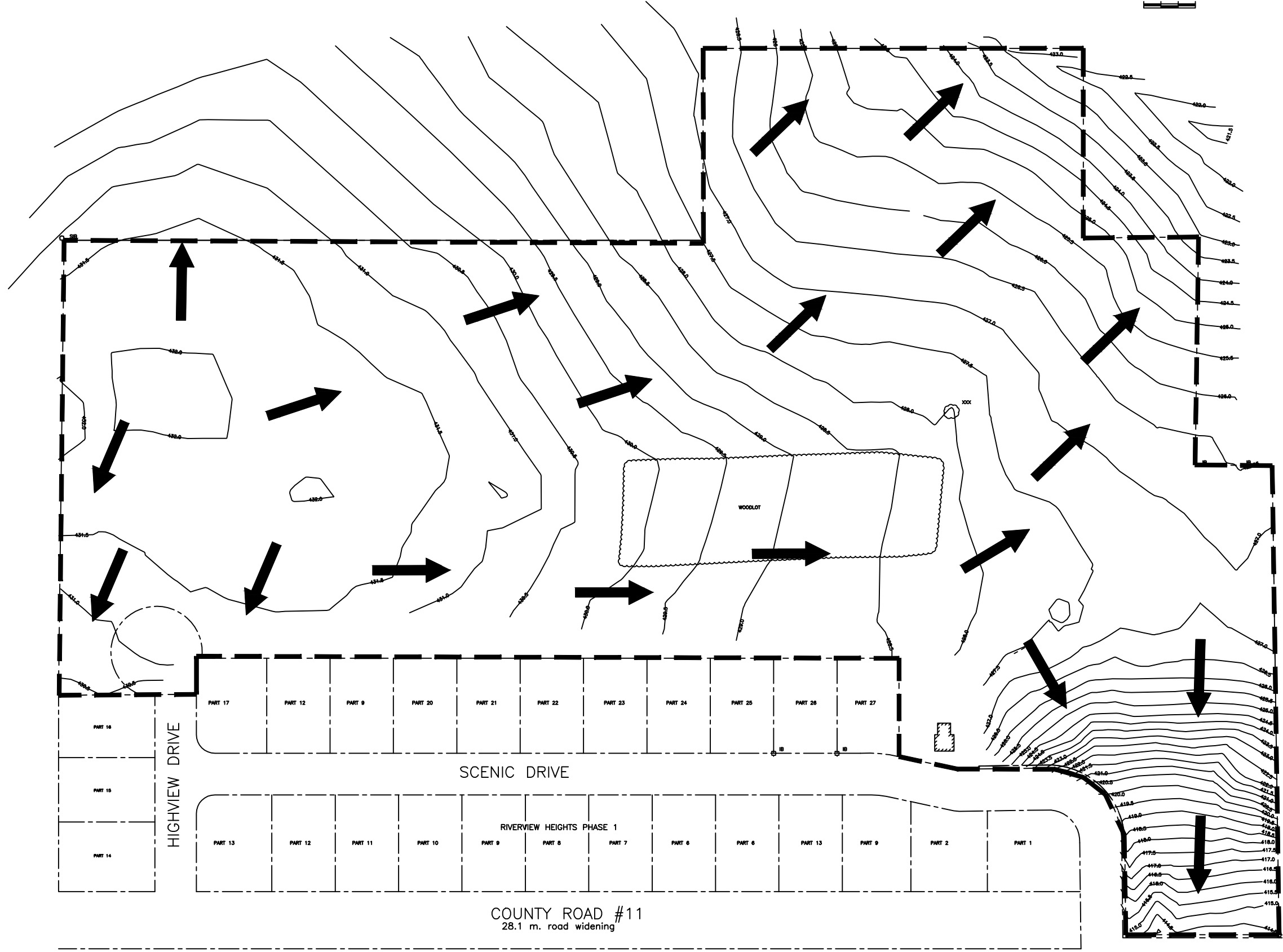


ABEC
20 STEEL DR.
RICHMOND HILL, ON L4C 3L4
Tel: 416-899-9881
Fax: 905-405-1954



Source Reference:

Project Manager: M. ROBATI	Reviewed By:	Date: JUNE 2021
Scale: 1:2000	Project No: 18983-00	Report No: Drawing No: 007



COUNTY ROAD #11

LEGEND

	PROPERTY LINE
	PROPOSED LOT LINE
	PROPOSED OVERLAND FLOW
	SILT FENCE LOCATION

- NOTES:
- MINIMUM PAVEMENT DESIGN
40mm H.L.S
60mm H.L.S
150mm GRANULAR 'A'
450mm GRANULAR 'B'
 - DITCHES TO BE TOPSOILED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
 - DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
 - WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION

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B. G. Drayton IN C.

3100 Steeles Ave West, Suite 500
Vaughan, ON L4K 3R1
Tel: 905-695-1953
Fax: 905-695-1954

DRAWING STATUS

ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.
Status	Date	Initial

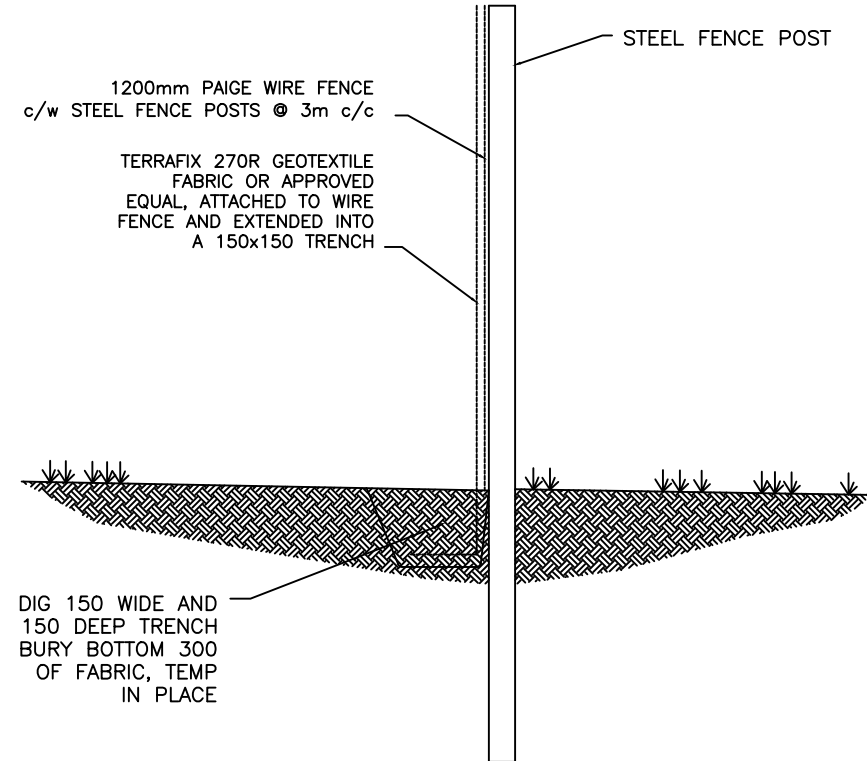
RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

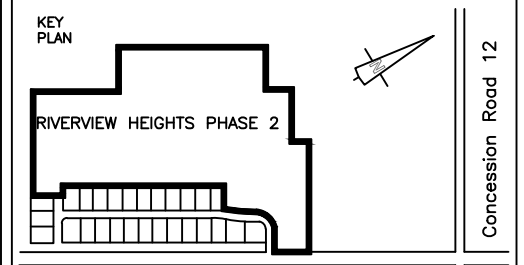
SEDIMENT CONTROL PLAN

 ABEC 2825 WILSON DR. RICHMOND HILL, ON L4C 3L4 Tel: 416-882-4001 Fax: 905-882-4104		Source Reference:	
		Project Manager: M. ROBATI	Reviewed By:
Scale: 1:2000	Project No: 18983-00	Report No: 	Drawing No: 008

- 1.) ALL SILT FENCING TO BE INSTALLED PRIOR TO COMMENCEMENT OF ANY AREA GRADING, EXCAVATION, OR DEMOLITION.
- 2.) EROSION CONTROL FENCING TO BE PLACED AROUND THE BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT A MINIMUM 2.5m FROM ALL PROPERTY LINES.
- 3.) ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.
- 4.) EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY BY CONESTOGA-ROVERS & ASSOCIATES LTD. AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM 1/3 THE HEIGHT OF THE SILT FENCE.
- 5.) ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RE-STABILIZED. ALL DISTURBED AREAS AND STOCKPILES NOT UNDER ACTIVE CONSTRUCTION, OR PROPOSED TO BE WITHIN 6 MONTHS, ARE TO BE STABILIZED WITH TOPSOIL AND SEED.
- 6.) NO ALTERNATE METHODS OF EROSION CONTROL PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY CONESTOGA-ROVERS & ASSOCIATES LTD.
- 7.) CONTRACTOR RESPONSIBLE FOR REMOVING SEDIMENTS FROM THE MUNICIPAL ROADWAYS AT THE END OF EACH WORK DAY.
- 8.) MUD MATS TO BE PROVIDED ON ALL SITE LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. MUD MATS SHALL BE A MINIMUM OF 6.0m WIDE, 15.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEARSTONE MATERIAL OR APPROVED EQUIVALENT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED AND A MANNER TO MAXIMIZE IT'S EFFECTIVENESS AT ALL TIMES.
- 9.) CONESTOGA-ROVERS & ASSOCIATES LTD. TO MONITOR THE SITE DEVELOPMENT TO ENSURE ALL EROSION CONTROLS ARE INSTALLED AND MAINTAINED TO CITY REQUIREMENTS. CONTRACTOR TO COMPLY WITH THE ENGINEER'S INSTRUCTIONS TO INSTALL, MODIFY, OR MAINTAIN EROSION CONTROL WORKS.
- 10.) IF, FOR UNFORESEEN REASONS, THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH ONTO PRIVATE LANDS TO UNDERTAKE ANY WORKS, HE/SHE MUST OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON PRIVATE PROPERTY TO PERFORM ANY WORKS. COPIES OF THESE LETTERS OF CONSENT MUST BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS-ENGINEERING DEVELOPMENT DIVISION, PRIOR TO ANY WORK BEING PROFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT THIS PROPERTY OWNERS OWN RISK.



SILT FENCE C/W
PAIGE WIRE DETAIL
N.T.S.



RIVERVIEW HEIGHTS PHASE 2

COUNTY ROAD #11

Concession Road 12

LEGEND

- PROPERTY LINE
- PROPOSED LOT LINE
- PROPOSED OVERLAND FLOW
- SILT FENCE LOCATION

NOTES:

1. MINIMUM PAVEMENT DESIGN
40mm HLB
60mm HLB
150mm GRANULAR 'A'
450mm GRANULAR 'B'
2. DITCHES TO BE TOPSOILED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
3. DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
4. WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION

THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

B. G. Drayton IN C.

3100 Steeles Ave West, Suite 500
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Tel: 905-695-1953
Fax: 905-695-1954

DRAWING STATUS

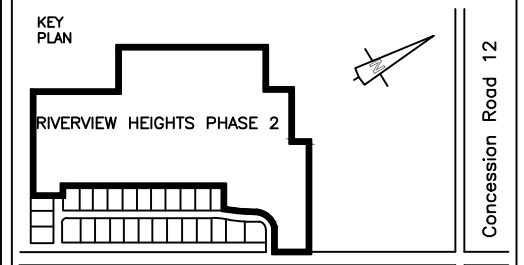
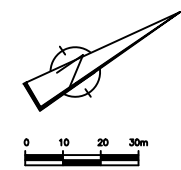
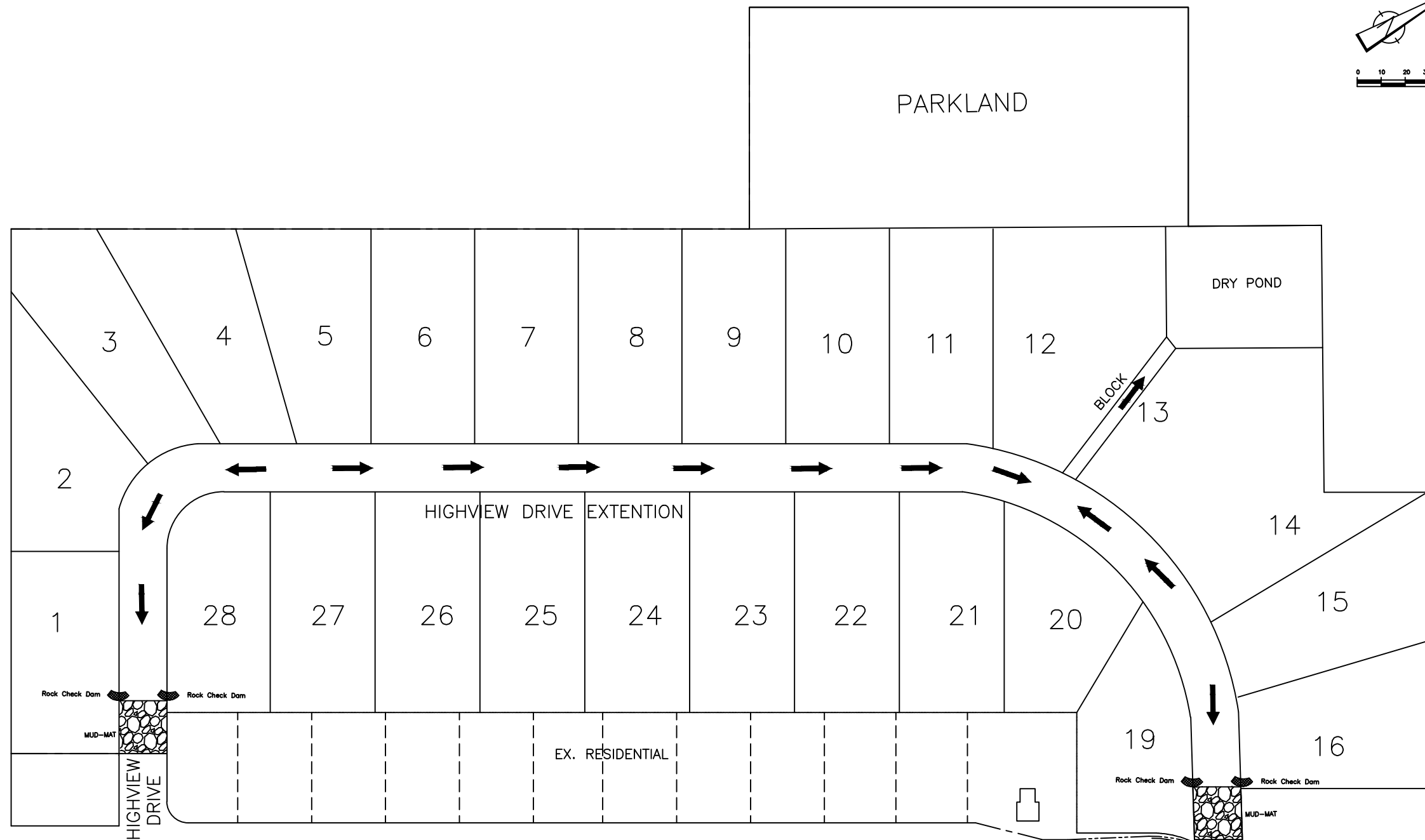
ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.
Status	Date	Initial

RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

SEDIMENT CONTROL DETAILS

<p>ABEC 23 STEEL DR. RICHMOND HILL, ON L4C 3L4 Tel: 416-890-9001 Fax: 905-405-1954</p>		<p>Source Reference:</p> <p>Project Manager: M. ROBATI</p> <p>Reviewed By:</p> <p>Date: JUNE 2021</p> <p>Scale: N.T.S.</p> <p>Project No: 18983-00</p> <p>Report No:</p> <p>Drawing No: 009</p>
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LEGEND

NOTES:

- MINIMUM PAVEMENT DESIGN
40mm HLB
60mm HLB
150mm GRANULAR 'A'
450mm GRANULAR 'B'
- DITCHES TO BE TOPSOILED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
- DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
- WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION
THIS BAR MEASURES 50mm ON ORIGINAL ADJUST SCALE ACCORDINGLY.

B. G. Drayton IN C.

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ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.

RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

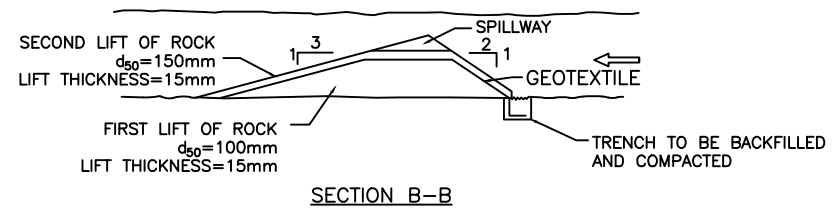
RED-LINED DRAFT PLAN NO. 23T-98003

MUD-MAT & CHECKDAM PLAN

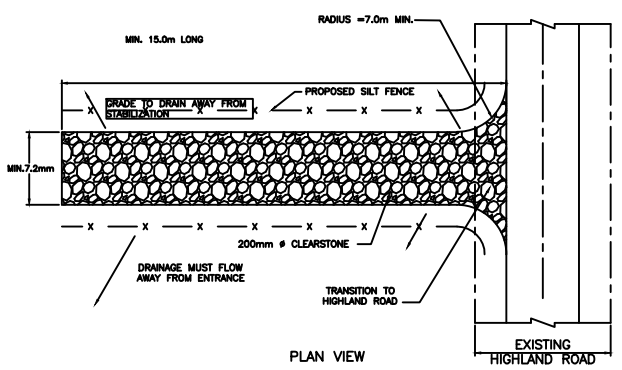
ABEC
23 STEELES DR.
RICHMOND HILL, ON L4K 3L4
Tel: 416-899-9411
Fax: 905-465-1954

M. ROBATI
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

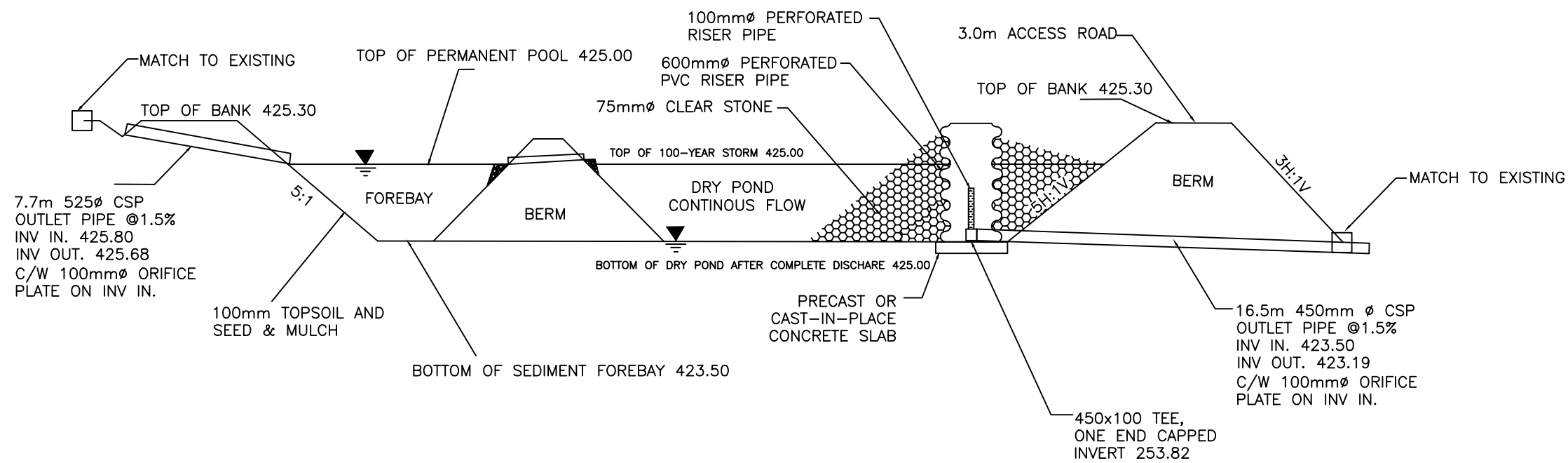
Project Manager: M. ROBATI	Reviewed By:	Date: JUNE 2021
Scale: N.T.S.	Project No: 18983-00	Report No: Drawing No: 010



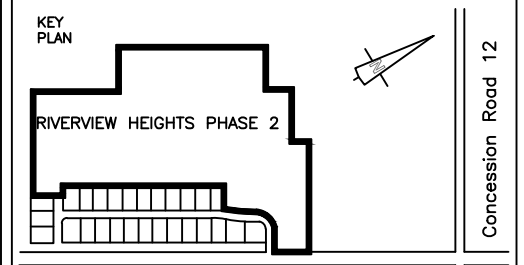
ROCK CHECK DAM
N.T.S.



CONSTRUCTION ENTRANCE MUD MAT
N.T.S.



SECTION A-A
OUTSET 'A'
SCALE: NTS



COUNTY ROAD #11

Concession Road 12

LEGEND

- PROPERTY LINE
- PROPOSED LOT LINE
- PROPOSED OVERLAND FLOW
- SILT FENCE LOCATION

NOTES:

1. MINIMUM PAVEMENT DESIGN
40mm HLB
60mm HLB
150mm GRANULAR 'A'
450mm GRANULAR 'B'
2. DITCHES TO BE TOPSOILED WITH CLEAN WEED FREE TOPSOIL TO MINIMUM 100mm DEPTH.
3. DITCH INVERT TO BE SODDED TO MINIMUM OF 2.0m WIDE.
4. WHERE DITCH GRADE EXCEEDS 6% RIPRAP GABION MATS SHALL BE USED.

SCALE VERIFICATION

THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

B. G. Drayton INC.

3100 Steeles Ave West, Suite 500
Vaughan, ON L4K 3R1
Tel: 905-695-1953
Fax: 905-695-1954



DRAWING STATUS

ISSUED TO TOWNSHIP FOR REVIEW	JUNE 2021	M.R.
Status	Date	Initial

RIVERVIEW HEIGHTS – PHASE 2
DRAYTON, ONTARIO

RED-LINED DRAFT PLAN NO. 23T-98003

POND CROSS-SECTION



ABEC
20 STEEL DR.
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