

TOWNSHIPSHIP OF BLANDFORD-BLENHEIM

COUNCIL MEETING AGENDA - AMENDED

Wednesday, October 16th, 2024

Watch via Live Stream on Township's YouTube:

<https://www.youtube.com/channel/UCdKRV0GAEuFaGbwhRPzoEXA>

4:00 p.m.

1. Welcome

2. Call to Order

3. Approval of the Agenda

Recommendation:

That the agenda for the October 16th, 2024 Regular Meeting of Council be adopted as printed, and circulated.

4. Disclosure of Pecuniary Interest

5. Minutes

a. [October 2nd, 2024 Minutes of Council](#)

Recommendation:

That the minutes of the September 4th, 2024 Regular Meeting of Council be adopted, as printed and circulated.

6. Business Arising from the Minutes

7. Public Meetings

a. Public Meeting under the Planning Act, Committee of Adjustment

i. Minutes

[May 1st, 2024 Minutes of the Meeting of the Committee of Adjustment](#)

ii. Applications for Minor Variance

[MVA-24-05, Sousa & Hodgson, 935532 Blenheim Road](#)

Recommendation:

That the Township of Blandford-Blenheim Committee of Adjustment approve Application File A05-24, submitted by Juliana Sousa and Matthew Hodgson for lands described as Part Lot 6, Concession 4 (Blenheim), Part 1, Plan 41R291 in the Township of Blandford-Blenheim as it relates to:

[Township of Blandford-Blenheim Website](#)

1. Relief from Section 6.1 to allow an additional residential unit (ARU) within a detached accessory building;
2. Relief from Section 5.5.2.3 to increase the maximum gross floor area for an ARU from 140 m² (1,507 ft²) to 161 m² (1,733 ft²); and,
3. Relief from Section 5.5.2.4 to increase the maximum distance between a principal dwelling and an ARU from 30 m (98.4 ft) to 54.3 m (178.1 ft).

Subject to the following condition:

- iii. That the proposed relief shall only apply to an ARU of the approximate size and location as depicted on Plate 3 of Report CP 2024-317.

The proposed relief meets the four tests of a minor variance as set out in Section 45(1) of the Planning Act as follows:

- i) deemed to be minor variances from the provisions of the Township of Blandford-Blenheim Zoning By-law No. 1360-2002;
- ii) desirable for the appropriate development or use of the land;
- iii) in keeping with the general intent and purpose of the Township of Blandford-Blenheim Zoning By-law No. 1360-2002, and;
- iv) in keeping with the general intent and purpose of the Official Plan of the County of Oxford.

[MVA-24-06, Plested, 687013 Highway 2](#)

That the Township of Blandford-Blenheim Committee of Adjustment approve Application File A06-24, submitted by Chris and Victoria Plested for lands described as Part Lot 12, Concession 1 (Blenheim), Part 1, Plan 41R6323 in the Township of Blandford-Blenheim as it relates to:

1. Relief from Section 5.5, Table 5.5.2.4 - Provisions for Detached Additional Residential Units; to increase the maximum distance between a public road and a detached additional residential unit (ARU) from 40 m (131.2 ft) to 75.3 m (247 ft).

Subject to the following condition:

- i. That the proposed relief shall only apply to an ARU of the approximate size and location as depicted on Plate 3 of Report CP 2024-318.

The proposed relief meets the four tests of a minor variance as set out in Section 45(1) of the Planning Act as follows:

- i) deemed to be minor variances from the provisions of the Township of Blandford-Blenheim Zoning By-law No. 1360-2002;
- ii) desirable for the appropriate development or use of the land;
- iii) in keeping with the general intent and purpose of the Township of Blandford-Blenheim Zoning By-law No. 1360-2002, and;

iv) in keeping with the general intent and purpose of the Official Plan of the County of Oxford.

8. Delegations / Presentations

None.

9. Correspondence

a. Specific

- i. [Councillor Demarest has requested the following correspondence be added to the agenda - Oxford County, re: Southwest Community Transit Service](#)

Recommendation:

That the Township of Blandford-Blenheim supports the County of Oxford's resolution urging the provincial government to continue funding Southwest Community Transit beyond March 2025 to ensure the ongoing viability of this essential service for small urban and rural Ontario;

And further, that this resolution be circulated to Oxford County and the Province of Ontario.

b. General

- i. [Rural Oxford Economic Development Corporation, re: June to Mid-September 2024 Economic Development Activity Report; and,](#)
- ii. [Frank Gross, Manager of Transportation and Waste Management Services, Oxford County, re: Automated Speed Enforcement Program Update.](#)

Recommendation:

That the general correspondence item be received as information.

10. Staff Reports

a. Drew Davidson – Director of Protective Services

- i. [FC-24-20 – Monthly Report](#)

Recommendation:

That Report FC-24-20 be received as information.

- ii. [FC-24-21 – Camp 85 Review](#)

Recommendation:

That Report FC-24-21 be received as information.

b. Ray Belanger – Chief Building Official

[i. CBO-24-10 – Monthly Report](#)

Recommendation:

That Report CBO-24-10 be received as information.

c. Trevor Baer – Director of Community Services

[i. CS-24-17 – Award of Princeton Accessible Playground Project](#)

That Report CS-24-17 be received as information;

And further, that Council awards the Princeton Accessible Playground Project to Henderson Playground Equipment for the playground components and Multi Turf Canada for the accessible flooring, based on their proposals submitted on October 10, 2024.

d. Jim Borton – Director of Public Works

[i. PW-24-25 – Pickup Truck Results](#)

Recommendation:

That Report CBO-24-10 be received as information;

And further, that Council accepts the quote submitted by Finch Auto Group for the 2024 Chevrolet Silverado 1500 4wd Crew Cab at the price of \$49,226.00 + HST + Licensing.

e. Sarah Matheson – Clerk

[i. DC-24-10 – Court of Revision - Mitchell Municipal Drain, County of Brant](#)

Recommendation:

That Report DC-24-10 be received as information; and,

That Council appoint Member George B. Banbury to attend the Court of Revision hosted by the County of Brant under the *Drainage Act*, for the purpose of hearing appeals related to the Mitchell Municipal Drain.

11. Reports from Council Members

12. Unfinished Business

13. Motions and Notices of Motion

14. New Business

a. Remembrance Day Ceremonies:

Chesterfield, November 10th 2024 at 10:00 am at the Chesterfield Cemetery Drumbo, details to follow.

Princeton, November 11th, 2024 at 10:15 am at the Cenotaph in the park.

Plattsville, November 11th, 2024 at 11:00 am at the Gates in the park.

15. Closed Session

a. Report CS-24-16 – A proposed or pending acquisition or disposition of land by the municipality [s. 239 (2)(c)]

Re: Partnership Trail

16. By-laws

a. [2458-2024, Being a By-law to confirm the proceedings of Council;](#)

Recommendation:

That the following By-law be now read a first and second time: 2458-2024

Recommendation:

That the following By-laws be now given a third and final reading: 2458-2024.

17. Other

18. Adjournment and Next Meeting

Wednesday, November 6th, 2024 at 4:00 p.m.

Recommendation:

Whereas business before Council has been completed at _____ pm;

That Council adjourn to meet again on Wednesday, November 6th, 2024 at 4:00 p.m.

MINUTES

Council met at 4:00 p.m. for their first Regular Meeting of the month.

Present: Mayor Peterson, Councillors Banbury, Barnes, and Young.

Staff: Baer, Borton, Brick, Davidson, Degier, Krug, and Matheson.

Other: Robson, Planner.

Regrets: Councillor Demarest

Mayor Peterson in the Chair.

1. Welcome

2. Call to Order

3. Approval of the Agenda

RESOLUTION #1

Moved by – Councillor Banbury
Seconded by – Councillor Young

Be it hereby resolved that the agenda for the October 2nd, 2024 Regular Meeting of Council be adopted as printed and circulated.

.Carried

4. Disclosure of Pecuniary Interest

None.

5. Adoption of Minutes

a. September 18th, 2024 Minutes of Council

RESOLUTION #2

Moved by – Councillor Young
Seconded by – Councillor Barnes

Be it hereby resolved that the minutes of the September 18th, 2024 Meeting of Council be adopted, as printed and circulated.

.Carried

6. Business Arising from the Minutes

None.

7. Public Meetings

a. Public Meeting under the Planning Act, Zone Change

- i. Application for Zone Change – ZN1-24-14 & ZN1-24-15 (Bartlett)

RESOLUTION #3

Moved by – Councillor Banbury
Seconded by – Councillor Young

Be it hereby resolved that Council rise and go into a Public Meeting under the Planning Act to consider application for zone change:

ZN1-24-14 & ZN1-24-15 (Bartlett);

And that Mayor Peterson Chair the Public Meeting.

.Carried

The Planner presented the Report, recommending to approve in principle. No member made comment or had questions. The applicant was present. L. Atkinson asked a question regarding whether the residential lot would be sold. The applicant responded in the affirmative. No one in the audience spoke further for or against the application.

RESOLUTION #4

Moved by – Councillor Barnes
Seconded by – Councillor Banbury

Be it hereby resolved that the Public Meeting be adjourned and that the Regular Meeting of Council reconvene.

.Carried

RESOLUTION #5

Moved by – Councillor Barnes
Seconded by – Councillor Young

Be it hereby resolved that the Township of Blandford-Blenheim approve in principle the Zone Change Application submitted by Tim and April Bartlett (File No. ZN1-24-14) whereby the lands described as Part Lots 9 & 10, Concession 9 (Blenheim), Township of Blandford- Blenheim are to be rezoned from 'General Agricultural Zone (A2)' to 'Rural Residential Zone (RR).

.Carried

RESOLUTION #6

Moved by – Councillor Banbury
Seconded by – Councillor Young

Be it hereby resolved that the Township of Blandford-Blenheim approve in principle the Zone Change Application submitted by Tim and April Bartlett (File No. ZN1-24-15) whereby the lands described as Part Lots 9 & 10, Concession 9 (Blenheim), Part 1, RP 41R626, Township of Blandford-Blenheim are to be rezoned from 'Residential Existing Lot Zone (RE)' to 'General Agricultural Zone (A2).'

.Carried

8. Delegations / Presentations

The planned delegation rescinded their request to delegate.

9. Correspondence

a. Specific

None.

b. General

- ii. Western Ontario Wardens Caucus, re: News Release: Rural Municipal Leaders Support 'Solve the Crisis' Campaign to Address Homelessness and Mental Health; and,
- iii. Pamela Antonio, Supervisor of Waste Management, Oxford County, re: Environment and Climate Change Canada Proposed "Regulations Respecting the Reduction in the Release of Methane (Waste Sector)".

RESOLUTION #7

Moved by – Councillor Young
Seconded by – Councillor Banbury

Be it hereby resolved that the general correspondence item be received as information.

.Carried

10. Staff Reports

a. Adam Degier – Drainage Superintendent

- i. DS-24-17 – Petition for Drainage – Westside Communities Plattsville Inc.

RESOLUTION #8

Moved by – Councillor Banbury
Seconded by – Councillor Young

Be it hereby resolved that Report DS-24-17 be received as information; and,

That Council accepts the petition for drainage works for the Part of Lot 17, Concession 12 (Blenheim), to modify and relocate the Hall Farm Branch of the Plattsville Drainage Works 2007 and Incorporate Storm Drains and Stormwater Management Systems from Westside Communities (Plattsville) Inc. and,

That the Clerk notify the Grand River Conservation Authority that it has received a petition for drainage work and that they intend to proceed with the petition.

.Carried

ii. DS-24-18 – Monthly Report

RESOLUTION #9

Moved by – Councillor Barnes
Seconded by – Councillor Banbury

Be it hereby resolved that Report DS-24-18 be received as information.

.Carried

b. Trevor Baer – Director of Community Services

i. CS-24-14 – Monthly Report

RESOLUTION #10

Moved by – Councillor Young
Seconded by – Councillor Barnes

Be it hereby resolved that Report CS-24-14 be received as information.

.Carried

ii. CS-24-15 – Grant Funding, Arena Roof Project

RESOLUTION #11

Moved by – Councillor Young
Seconded by – Councillor Barnes

Be it hereby resolved that Report CS-24-15 be received as information;
and,

That Council directs staff to apply for the Community Sport and Recreation Infrastructure Fund, for arena roof project based on (70%) grant funding and (30%) Township funding.

.Carried

c. Jim Borton – Director of Public Works

- i. PW-24-23 – Monthly Report

RESOLUTION #12

Moved by – Councillor Young
Seconded by – Councillor Banbury

Be it hereby resolved that PW-24-23 be received as information.

.Carried

- i. PW-24-24 – Grader Roller

RESOLUTION #13

Moved by – Councillor Barnes
Seconded by – Councillor Banbury

Be it hereby resolved that PW-24-24 be received as information; and,

That Council accepts the quote submitted by Neilson Custom Metal Works Inc. to supply 1 roller and lifting bracket to fit the 2018 CAT 140M3 Grader for the amount of \$25,700.00 plus HST.

.Carried

d. Sarah Matheson – Clerk

- i. DC-24-09 – Update to January 2025 Council Meeting Schedule

RESOLUTION #14

Moved by – Councillor Young
Seconded by – Councillor Banbury

Be it hereby resolved that Report DC-24-09 be received as information; and,

That the Council Meeting scheduled for January 1st 2025 be cancelled and the following meetings be established for the month of January 2025:

- January 15th, 2025 (third Wednesday of the month), Operating Budget & Capital Budget/Long Term Capital Plan Meeting, beginning at 10:00 a.m.; and,
- January 22nd, 2025, Regular Council Meeting, beginning at 4:00 p.m.

.Carried

e. Josh Brick – Chief Administrative Officer

- i. CAO-24-38 – Building Services Vehicle

RESOLUTION #15

Moved by – Councillor Barnes
Seconded by – Councillor Young

Be it hereby resolved that Report CAO-24-38 be received as information; and,

That Council approves the vehicle specifications requirements as attached to the Report CAO-24-38; and further,

That Council directs staff to seek formal quotations for the purchase of a 4x4 pick-up truck in accordance with Township procurement policies.

.Carried

11. Reports from Council Members

Councillor Young reported on her attendance at an online course through AMO regarding human rights, reporting it was effective training. Councillor Young further reported on hers and Councillor Barnes' attendance at the most recent fire recruitment evening. Mayor Peterson reported on his attendance at the annual Drumbo Fair and its success as an event. Mayor Peterson further noted that Oxford County has maintained their AAA credit rating, with the only recommendation being to diversify. Mayor Peterson reported that the Brant Beacon staff members were unable to attend as a delegation, but that he met with the reporter, editor, and publisher to discuss their coverage of Blandford-Blenheim and attendance at future meetings. Mayor Peterson also reported on his attendance at the annual Warden's golf tournament.

12. Unfinished Business

None.

13. Motions and Notices of Motion

None.

14. New Business

None.

15. Closed Session

None.

16. By-laws

a. 2456-2024, Being A By-law to amend Zoning By-Law Number 1360-2002, as amended (ZN1-23-02); and,

b. 2457-2024, Being a By-law to confirm the proceedings of Council

RESOLUTION #16

Moved by – Councillor Banbury
Seconded by – Councillor Young

Be it hereby resolved that the following By-laws be now read a first and second time:

a. 2456-2024, Being A By-law to amend Zoning By-Law Number 1360-2002, as amended (ZN1-23-02); and,

b. 2457-2024, Being a By-law to confirm the proceedings of Council.

.Carried

RESOLUTION #17

Moved by – Councillor Banbury
Seconded by – Councillor Young

Be it hereby resolved that the following By-laws be now read a third and final time:

a. 2456-2024, Being A By-law to amend Zoning By-Law Number 1360-2002, as amended (ZN1-23-02); and,

b. 2457-2024, Being a By-law to confirm the proceedings of Council.

.Carried

17. Other Business

None.

18. Adjournment and Next Meeting

RESOLUTION #18

Moved by – Councillor Young

Seconded by – Councillor Banbury

Whereas business before Council has been completed at 4:40 p.m.;

Be it hereby resolved that Council adjourn to meet again on Wednesday, October 16th, 2024 at 10:00 a.m. for a special meeting of Council, with the regular meeting to commence at 4:00 p.m.

.Carried

Mark Peterson, Mayor
Township of Blandford-Blenheim

Sarah Matheson, Clerk
Township of Blandford-Blenheim

COMMITTEE OF ADJUSTMENT MINUTES

The Township of Blandford-Blenheim Committee of Adjustment met at 4:20 p.m.

Present: Mayor Peterson, Members Banbury, Demarest and Young.

Staff: Baer, Belanger, Borton, Brick, Degier, Krug, and Matheson.

Others: Dustin Robson, Planner, Oxford County.

Regrets: Member Barnes.

Mayor Peterson in the Chair

Disclosure of Pecuniary Interest

None.

Minutes

i. February 21st, 2024 Meeting of the Committee of Adjustment

Verbal adoption of the Minutes of the Meeting of the Committee of Adjustment.

Moved by – Councillor Demarest

Seconded by – Councillor Young

Application

i. Application for Minor Variance MVA-24-03 Adam & Ashley Peer, 687551 Highway 2, Blandford-Blenheim

The Planner presented the report, recommending approval. The applicant's agent and one applicant were present. No Member asked question or made comment. No one in attendance spoke for or against the application.

Verbal motion to approve the application.

Moved by – Councillor Banbury

Seconded by – Councillor Young

For application A24-03 the decision was signed as approved.

The Committee adjourned at 4:26 p.m. and the Open Council meeting resumed.

Community Planning

P. O. Box 1614, 21 Reeve Street

Woodstock Ontario N4S 7Y3

Phone: 519-539-9800 • Fax: 519-421-4712

Web site: www.oxfordcounty.ca

Our File: **A05-24**

APPLICATION FOR MINOR VARIANCE

TO: Township of Blandford-Blenheim Committee of Adjustment

MEETING: October 16, 2024

REPORT NUMBER: CP 2024-317

OWNERS: Juliana Sousa and Matthew Hodgson
935532 Blenheim Road, Drumbo, ON N0J 1G0

VARIANCES REQUESTED:

1. Relief from Section 6.1 to allow an additional residential unit (ARU) within a detached accessory building;
2. Relief from Section 5.5.2.3 to increase the maximum gross floor area for an ARU from 140 m² (1,507 ft²) to 161 m² (1,733 ft²); and,
3. Relief from Section 5.5.2.4 to increase the maximum distance between a principal dwelling and an ARU from 30 m (98.4 ft) to 54.3 m (178.1 ft).

LOCATION:

The subject lands are described as Part Lot 6, Concession 4 (Blenheim), Part 1, Plan 41R291, in the Township of Blandford-Blenheim. The lands are located on the east side of Blenheim Road, lying between Township Road 5 and Township Road 4, and are municipally known as 935532 Blenheim Road.

BACKGROUND INFORMATION:

COUNTY OF OXFORD OFFICIAL PLAN:

| | | |
|----------------|---|----------------------|
| Schedule 'B-1' | Township of Blandford-Blenheim Land Use Plan | Agricultural Reserve |
|----------------|---|----------------------|

TOWNSHIP OF BLANDFORD-BLENHEIM ZONING BY-LAW 1360-2002:

Limited Agricultural Zone (A1)

COMMENTS:(a) Purpose of the Application:

The purpose of the application for minor variance is to permit the establishment of an additional residential dwelling unit (ARU) within the existing dwelling on the subject lands, which would be accessory to a recently constructed dwelling.

With the implementation of the Township's ARU zoning provisions, the applicants are applying to allow the existing dwelling to remain on-site as an additional residential unit (ARU) rather than be demolished. The applicants are requesting variances in order to recognize the existing dwelling as an ARU while also permitting an increased distance between the ARU and the proposed principal dwelling.

The southern portion of the subject lands contains an existing 161 m² (1,733 ft²) single detached dwelling that was constructed in 1870, which would be considered the proposed ARU, and a second single detached dwelling, with a gross floor area of approximately 297.6 m² (3,204 ft²), has recently been completed on the east side of the subject lands.

The subject lands are approximately 1.8 ha (4.5 ac) in size and, in addition to the historical and new single detached dwellings, also contain a detached shed and a gazebo. The subject lands are also regulated by the Grand River Conservation Authority (GRCA). Surrounding land uses are predominately agricultural to the north, south, east and west.

Plate 1, Location Map and Existing Zoning, shows the location of the subject lands and the current zoning in the immediate vicinity.

Plate 2, Aerial Photography (2020), shows the location of the subject lands and surrounding properties.

Plate 3, Applicants' Sketch, illustrates the existing buildings and the location of the existing single detached dwelling proposed to be used as an ARU.

(b) Agency Comments

The Oxford County Public Works Department, the Grand River Conservation Authority (GRCA), and Southwestern Public Health have indicated no concerns or objections regarding the proposed variances.

(c) Public Consultation:

Public Notice was mailed to surrounding property owners in accordance with the Planning Act. At the time of writing this report, no comments or concerns had been received from the public.

(d) Intent and Purpose of the Official Plan:

The subject lands are designated 'Agricultural Reserve' according to the Township of Blandford-Blenheim Land Use Plan, as contained in the County Official Plan. The proposal to permit a detached ARU conforms with the relevant policies of the Official Plan.

In the Agricultural Reserve designation, ARUs are permitted within a single detached dwelling and/or in a structure ancillary to the principal dwelling, provided that both dwellings are located on a lot zoned for agricultural or rural residential use that permits a dwelling in accordance with the policies of the Official Plan.

A maximum of two (2) ARUs shall be permitted per farm unit, being two (2) in a principal dwelling or one (1) in a principal dwelling and/or one (1) in a structure ancillary to the principal dwelling.

ARUs located outside of a settlement area shall be in accordance with the following:

- The ARU shall be clearly secondary and subordinate to the principal dwelling on the lot and have a cumulative gross floor area of no greater than 50% of the gross floor area of the principal dwelling, to a maximum of 140 m² (1,506 ft²);
- ARUs shall not generally be permitted where a lot or dwelling already contains other accessory residential dwelling and/or uses, including a group home, boarding or lodging house or a home occupation that is characterized by higher occupancy such as a bed and breakfast, a farm vacation rental or other similar uses;
- Individual on-site water supply and sewage services are demonstrated to be adequate to serve the proposed use, in accordance with the applicable policies;
- The existing principal dwelling and the lot are of sufficient size to accommodate the creation of an ARU and to provide adequate off-street parking, landscaping, stormwater management and outdoor amenity areas;
- The principal dwelling must have direct, individual vehicular access to a public street and all ARUs shall use the same driveway as the principal dwelling;
- There is adequate access from the front lot line and parking area to each ARU for both occupant use and emergency response;
- To the extent feasible, existing trees and other desirable vegetation are preserved;
- Land use compatibility concerns (e.g. due to proximity to industrial areas or major facilities) will not be created or intensified;
- The location of ARUs and related services and outdoor amenities shall comply with all other applicable policies of the Official Plan;
- All other municipal requirements, such as servicing, stormwater management, waste management and emergency access, can be adequately addressed.

The following additional policies shall apply to the establishment of an ARU in a detached ancillary structure;

- The lot must be a minimum of 0.6 ha (1.48 ac) in area;
- The siting, design and orientation of the ancillary structure, parking areas and outdoor amenity areas will allow for privacy for the occupants of the ARU, principal dwelling and abutting residential properties; and
- An ARU will satisfy MDS I or will not further reduce an existing insufficient setback.

In addition to above policies, the following shall apply to the establishment of an *additional residential unit* in a detached ancillary structure on an agricultural lot:

- Shall only be permitted through a minor variance granted by the Area Municipal Committee of Adjustment, to ensure all applicable policy criteria, zoning provisions and any local standards and requirements will be adequately addressed (i.e. through the review and conditions of approval);
- the *additional residential unit* should share *individual on-site water supply and sewage services* and utility services with the principal dwelling, where possible;
- the ancillary structure must be located within the established residential area on the agricultural lot (i.e. the area comprising the principal dwelling and accessory residential structures, driveway, outdoor amenity areas and individual on-site services);
- an *additional residential unit* in a new ancillary building shall be located a maximum distance of 30 m (98 ft) from the principal dwelling; and
- the cumulative area of the lot utilized for residential purposes shall be minimized to the extent feasible to a maximum of 0.8 ha (2 ac) and the location of the *additional residential unit* and/or related services and outdoor amenity areas shall minimize the loss of tillable agricultural land and potential impacts on the farm operation and adjacent farms.

Notwithstanding the above, while staff note that the proposal to recognize the existing single detached dwelling as an ARU would not comply with some of the relevant policies, such as the maximum size and distance from the principal dwelling, staff are of the opinion that the general intent and purpose of the Official Plan to permit an ARU on agricultural lands can be maintained. Specifically, staff are satisfied that the recognized ARU would be located within the previously established cluster, would continue to use existing infrastructure (well, septic, driveway, etc.), and would not introduce any adverse impacts on surrounding agricultural operations. As such, staff are satisfied that the intent of the Official Plan can be met in this instance.

(e) Intent and Purpose of the Zoning By-law:

The subject lands are zoned 'Limited Agricultural Zone (A1)' in the Township of Blandford-Blenheim Zoning By-law. The 'A1' zone permits a wide range of agricultural uses, including livestock and regulated farm operations, as well as buildings and structures accessory thereto. A single detached dwelling is also a permitted use within the 'A1' zone.

Section 5.5.2 of the Zoning By-law allows for the consideration of an ARU within a detached ancillary structure on 'A1' zoned land provided that the following criteria is met:

- ARUs shall not generally be permitted where a lot or dwelling already contains other accessory residential dwelling and/or uses, including a group home, boarding or lodging house or a home occupation that is characterized by higher occupancy such as a bed and breakfast, a farm vacation rental or other similar uses;
- Individual on-site water supply and sewage services are demonstrated to be adequate to serve the proposed use, in accordance with the applicable policies;
- The existing principal dwelling and the lot are of sufficient size to accommodate the creation of an ARU and to provide adequate off-street parking, landscaping, stormwater management and outdoor amenity areas;
- Contains a cumulative gross floor area of no greater than 50% of the gross floor area of the principal dwelling, to a maximum of 140 m² (1,506 ft²);
- There is a 1.2 m (3.9 ft) unobstructed pathway from the front lot line to the entrance;
- 1 parking space per ARU is provided on-site;
- A minimum 75 m² (807 ft²) of open space in the rear yard for 1 ARU;
- The subject lands are a minimum of 0.6 ha (1.48 acres);
- The ARU shall have a maximum height of 5.5 m (18 ft); and,
- The ARU shall be a maximum distance of 30 m (98.4 ft) from the main dwelling.

Additionally, Section 6.2.5 - Location of New Farm Dwellings, is to ensure that new farm dwellings, including temporary dwellings, shall be required to satisfy the minimum distance separation requirements as determined through the application of the Minimum Distance Separation Formula I (MDS I) or not further reduce an already existing insufficient setback. It is the intent of these regulations to reduce potential conflicts with livestock operations, wherever possible.

The ARU zoning provisions include the requirement for an ARU to have a maximum gross floor area of 50% of the principal dwelling or 140 m² (1,507 ft²), whichever is lesser. Given that the new principal dwelling on the subject lands is 297.6 m² (3,204 ft²), an ARU on the subject lands would be permitted to be no larger than 140 m² (1,507 ft²). The dwelling proposed to remain as an ARU is approximately 161 m² (1,733 ft²) in size, which is approximately 21 m² (226 ft²) larger than permitted. Staff are satisfied that while the existing dwelling exceeds the permitted maximum size, the dwelling will be secondary to the principal dwelling and will function as an ARU.

While the location of the ARU is 54.3 m (178.1 ft) from the principal dwelling rather than the permitted 30 m (98.4 ft) within the zoning provisions, staff are of the opinion that there is merit to

the proposal in this specific instance. The configuration of the original residential cluster is located within the narrowest portion of the subject lands and offered limited area to place the new principal dwelling without impacting existing structures (shed and gazebo) and existing vegetation. The location where the principal dwelling was ultimately constructed originally housed dilapidated outbuildings, which were removed, and resulted in the principal dwelling being constructed in a already largely cleared area.

Access to the new principal dwelling will be via the existing laneway, which has been extended to accommodate the new dwelling. The use of the existing laneway is supported by staff as the Official Plan policies states that all ARUs shall use the same access as the principal dwelling.

Further, both dwellings comply with MDS I and the lands can accommodate the required septic systems. Permitting the existing single detached dwelling to remain on-site permanently as an ARU to the new principal dwelling is not expected to create any negative impacts on neighbouring properties, and the rural character of the lands is not expected to change.

Staff note that the subject lands fall within the regulation limit of the Grand River Conservation Authority (GRCA). As such, the GRCA has been circulated the subject variance application and has advised that the organization does not have any concerns with the proposal as presented.

In the opinion of staff, the proposal meets the general intent and purpose of the Township Zoning By-law.

(f) Desirable Development/Use:

It is the opinion of this office that the applicants' proposal to obtain relief to facilitate the allowance of an existing single detached dwelling to be recognized as an ARU would be desirable for the subject lands.

Staff have reviewed the proposal and believe that though the existing accessory building is further away from the principal dwelling than what is permitted, the current situation on the subject lands (topography, existing buildings, etc.) allows for consideration of the relief requested. Further, staff are of the opinion that allowing the existing dwelling to remain in the current location will ensure the continued use of the existing driveway and will not have an adverse impact on surrounding agricultural operations.

An option to ensure compliance with the relevant policies for an ARU within a detached accessory building would be to have the landowner remove the existing single detached dwelling and have a new ARU built in compliance of the zoning provisions (maximum size, distance from the principal use, etc.). In staff's opinion requiring the landowner to do this would be considered to be an undue hardship.

In light of the foregoing, it is the opinion of this office that the requested relief is in keeping with the general intent and purpose of the Official Plan, the Township's Zoning By-law, is minor and desirable and can be given favourable consideration.

RECOMMENDATION:

That the Township of Blandford-Blenheim Committee of Adjustment **approve** Application File A05-24, submitted by Juliana Sousa and Matthew Hodgson for lands described as Part Lot 6, Concession 4 (Blenheim), Part 1, Plan 41R291 in the Township of Blandford-Blenheim as it relates to:

1. Relief from Section 6.1 to allow an additional residential unit (ARU) within a detached accessory building;
2. Relief from Section 5.5.2.3 to increase the maximum gross floor area for an ARU from 140 m² (1,507 ft²) to 161 m² (1,733 ft²); and,
3. Relief from Section 5.5.2.4 to increase the maximum distance between a principal dwelling and an ARU from 30 m (98.4 ft) to 54.3 m (178.1 ft).

Subject to the following condition:

- i. That the proposed relief shall only apply to an ARU of the approximate size and location as depicted on Plate 3 of Report CP 2024-317.

The proposed relief meets the four tests of a minor variance as set out in Section 45(1) of the Planning Act as follows:

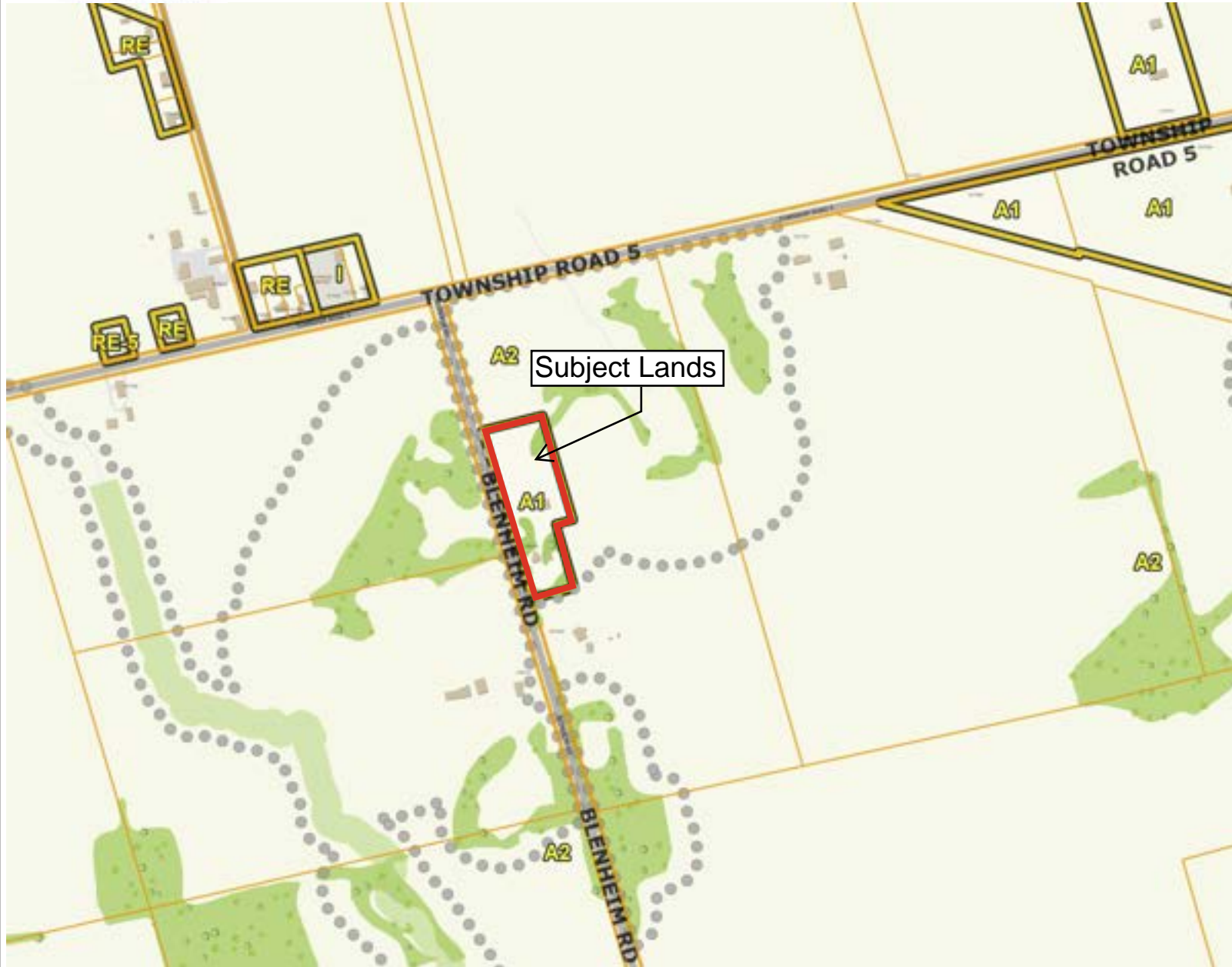
- i) deemed to be minor variances from the provisions of the Township of Blandford-Blenheim Zoning By-law No. 1360-2002;
- ii) desirable for the appropriate development or use of the land;
- iii) in keeping with the general intent and purpose of the Township of Blandford-Blenheim Zoning By-law No. 1360-2002, and;
- iv) in keeping with the general intent and purpose of the Official Plan of the County of Oxford.

Authored by: *original signed by*

Dustin Robson, MCIP, RPP
Development Planner

Approved for submission by: *original signed by*

Heather St. Clair, MCIP, RPP
Senior Planner



Legend

- Parcel Lines**
 - Property Boundary
 - Assessment Boundary
 - Unit
 - Road
 - Municipal Boundary
- Zoning Floodlines**
- Regulation Limit**
 - 100 Year Flood Line
 - 30 Metre Setback
 - Conservation Authority Regulation Limit
 - Regulatory Flood And Fill Lines
- Land Use Zoning (Displays 1:16000 to 1:500)

Notes



0 205 409 Meters

NAD_1983_UTM_Zone_17N



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. This is not a plan of survey

September 12, 2024



Legend

- Parcel Lines**
 - Property Boundary
 - Assessment Boundary
 - Unit
 - Road
 - Municipal Boundary
- Zoning Floodlines Regulation Limit**
 - 100 Year Flood Line
 - 30 Metre Setback
 - Conservation Authority Regulation Limit
 - Regulatory Flood And Fill Lines
- Land Use Zoning (Displays 1:16000 to 1:500)

Notes



0 51 102 Meters

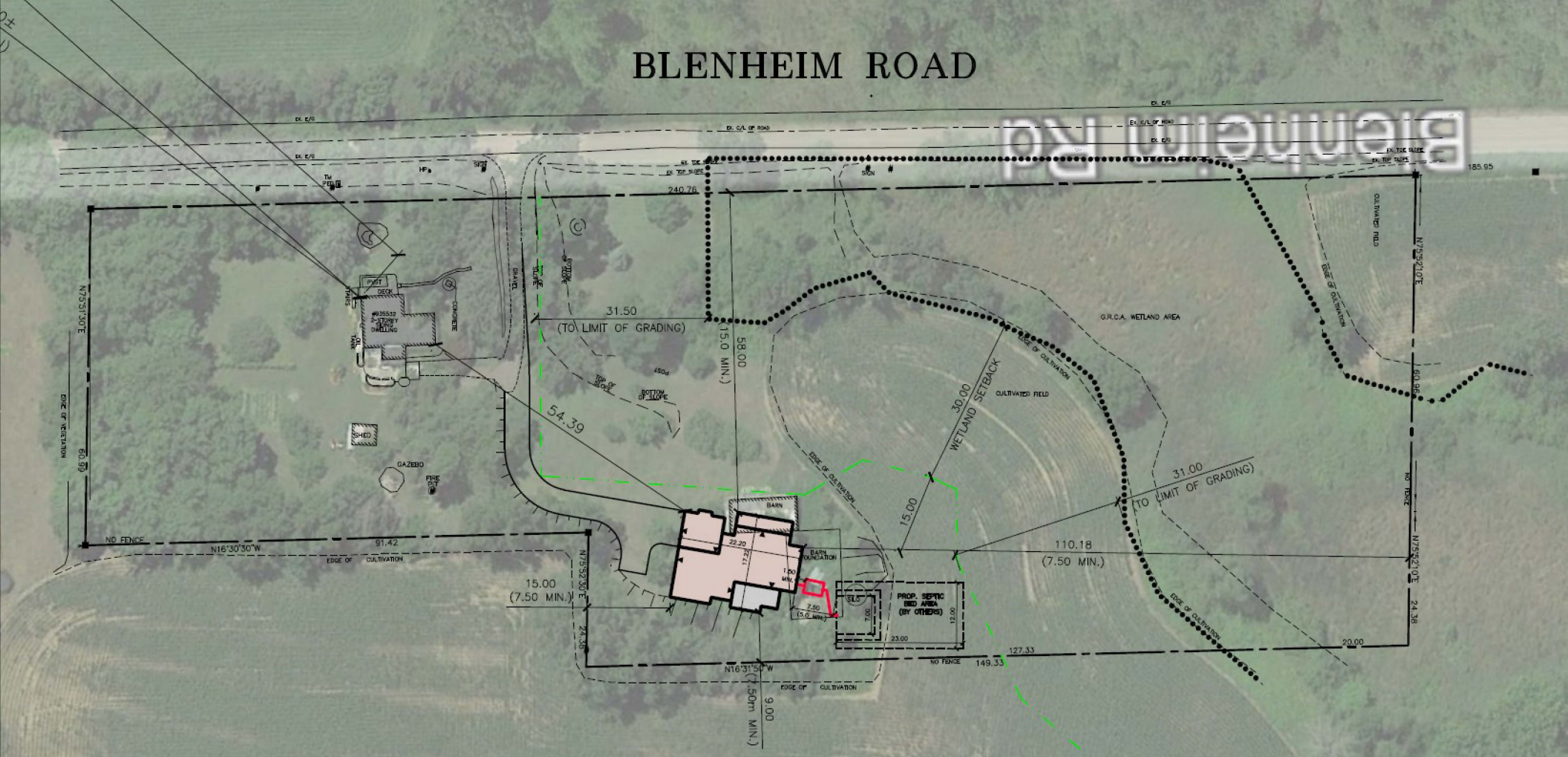
NAD_1983_UTM_Zone_17N



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September 12, 2024

Plate 3: Applicants' Sketch
 File No. A05-24 (Sousa and Hodgson)
 Part Lot 6, Concession 4 (Blenheim), Part 1, 41R291, Township of Blandford-Blenheim - 935532 Blenheim Road



Community Planning

P. O. Box 1614, 21 Reeve Street

Woodstock Ontario N4S 7Y3

Phone: 519-539-9800 • Fax: 519-421-4712

Web site: www.oxfordcounty.ca

Our File: **A06-24**

APPLICATION FOR MINOR VARIANCE

TO: Township of Blandford-Blenheim Committee of Adjustment

MEETING: October 16, 2024

REPORT NUMBER: CP 2024-318

OWNERS: Chris and Victoria Plested
687013 Highway 2, Princeton, ON N0J 1V0

VARIANCE REQUESTED:

1. Relief from **Section 5.5, Table 5.5.2.4 - Provisions for Detached Additional Residential Units**; to increase the maximum distance between a public road and a detached additional residential unit (ARU) from 40 m (131.2 ft) to 75.3 m (247 ft).

LOCATION:

The subject lands are described as Part Lot 12, Concession 1 (Blenheim), Part 1, Plan 41R6323, in the Township of Blandford-Blenheim. The lands are located on the north side of Highway 2, lying between Main Street South and Blenheim Road, and are municipally known as 687013 Highway 2.

BACKGROUND INFORMATION:

COUNTY OF OXFORD OFFICIAL PLAN:

| | | |
|----------------|---|------------|
| Schedule 'B-1' | Township of Blandford-Blenheim Land Use Plan | Settlement |
|----------------|---|------------|

| | | |
|----------------|--|---------|
| Schedule 'C-1' | County of Oxford Settlement Strategy Plan | Village |
|----------------|--|---------|

TOWNSHIP OF BLANDFORD-BLENHEIM ZONING BY-LAW 1360-2002:

Residential Type 1 Zone (R1)

COMMENTS:(a) Purpose of the Application:

The applicants are proposing to obtain relief from the above noted provision of the Township's Zoning By-law to facilitate the construction of a detached additional residential unit (ARU). The detached ARU is proposed to be a maximum size of 65 m² (702 ft²).

The subject lands are approximately 0.6 ha (1.5 ac) in area, zoned 'Residential Type 1 Zone (R1),' and contain a single detached dwelling (c. 1850) approximately 366.4 m² (3,944 ft²) in size with an attached garage approximately 100 m² (1,080 ft²) in size. The subject lands are currently served by municipal water and a private septic system. Given the existing lot depth of approximately 88 m (288.7 ft), the applicants are requesting an increase to the maximum distance that a detached ARU may be from a public road. The proposed 75.3 m (247 ft) setback from the public road would allow the ARU to be placed in the rear yard of the existing single detached dwelling on-site.

Surrounding uses are agricultural to the south while the lands to the east are residential. The lands to the west are the location for a future stormwater management pond. The lands to the north are currently being used for agricultural use (cash crop), however, the lands are anticipated to be used for a future residential development.

Plate 1, Location Map and Existing Zoning, shows the location of the subject lands and the current zoning in the immediate vicinity.

Plate 2, Aerial Photography (2020), shows the location of the subject lands and surrounding properties.

Plate 3, Applicants' Sketch, illustrates the existing buildings and the location of the proposed ARU.

(b) Agency Comments

The Oxford County Public Works Department and Southwestern Public Health have indicated no concerns or objections regarding the proposed zoning amendment.

(c) Public Consultation:

Public Notice was mailed to surrounding property owners in accordance with the Planning Act. At the time of writing this report, no comments or concerns had been received from the public.

(d) Intent and Purpose of the Official Plan:

The subject lands are located within the Village of Princeton and are designated 'Settlement' according to the Township of Blandford-Blenheim Land Use Plan, as contained in the Official Plan. Within the Village designation, a range of land uses are permitted with the exception of multiple unit residential development involving more than two units. Appropriate infill development and intensification of land and buildings in rural settlements will be consistent with the level of municipal services.

The Official Plan (Section 10.3.6) directs that the Committee of Adjustment shall take into account the following points when considering an application for minor variance:

- The objectives and policies of the Official Plan can be met if the minor variance is granted;
- The request for variance constitutes a minor departure from the performance standards of the zoning by-law;
- The general intent of the zoning by-law can be met; and
- Whether the variance is desirable for the appropriate development of the land.

In Rural Cluster, Village and Serviced Village designations, Area Municipal Zoning By-laws shall identify the areas and/or zones where *additional residential units* may be established and contain zoning provisions to regulate the establishment of such units in accordance with the following policies:

- the *additional residential unit(s)* shall be clearly secondary and subordinate to the principal dwelling on the lot and have a cumulative gross floor area no greater than 50% of the gross floor area of the principal dwelling on the lot, to a maximum of 100 m² (1076 ft²), except that Area Municipal zoning by-law provisions may permit the entire basement of the principal dwelling to be used;
- *additional residential units* are not permitted where a lot or dwelling already contains other accessory residential dwellings and/or uses, including: a group home, a boarding or lodging house; or a home occupation that is characterized by higher occupancy, such as a bed and breakfast or other similar use;
- an *additional residential unit* within the principal dwelling may be permitted on the same lot as a *garden suite*, through a site specific zone change or minor variance, where the applicable policies of this section are met;
- *centralized waste water and water supply* and/or *individual on-site water supply and sewage services* are demonstrated to be adequate to serve the proposed use, in accordance with the applicable policies of Section 3.3, Water Quality and 5.5, County Servicing Policy;
- the existing principal dwelling and lot are of sufficient size to accommodate the creation of *additional residential unit(s)* and to provide adequate off-street parking, landscaping, stormwater management, and outdoor amenity areas without detracting from the visual character of the lot or area;
- any new or expanded structures and/or exterior alterations (e.g., new parking areas, doors, windows, stairways, decks) to accommodate an *additional residential unit* will maintain the general built form and exterior character of the principal dwelling and the surrounding area;
- the principal dwelling must have direct, individual vehicular access to a public street and all *additional residential units* shall generally use the same driveway and parking area as the principal dwelling;
- there is adequate access from the front lot line and parking area to each *additional residential unit* for both occupant use and emergency response;
- to the extent feasible, existing trees and other desirable vegetation are preserved;
- any potential increase in on-street parking demand can be adequately accommodated and/or managed;
- land use compatibility concerns (e.g., due to proximity to industrial areas or on *major facilities*) will not be created or intensified;

- the location of the proposed *additional residential unit* and related services and outdoor amenity areas shall comply with all other applicable policies including: Section 3.2, Environmental Resource Policies and Section 3.3, Cultural Resource Policies; and,
- all other municipal requirements, such as servicing, stormwater management, waste management and emergency access, can be adequately addressed.

The following additional policies shall apply to the establishment of an *additional residential unit* in a detached ancillary structure:

- the minimum lot size for a lot with *individual on-site sewage services* is 0.6 ha (1.48 ac);
- the ancillary structure must be located in a rear or interior side yard; and,
- the siting, design and orientation of the ancillary structure, parking area and outdoor amenity area will allow for privacy for the occupants of the *additional residential unit*, principal dwelling and abutting residential properties and minimize potential visual and shadowing impacts on adjacent residential properties.

Based on the criteria outlined above, Staff are of the opinion that the proposal conforms to the intent and purpose of the County's Official Plan.

(e) Intent and Purpose of the Zoning By-law:

The subject lands are zoned 'Residential Type 1 Zone (R1)' in the Township of Blandford-Blenheim Zoning By-law. The R1 zone permits, among other uses, a single detached dwelling and uses accessory thereto, subject to the provisions of the Zoning By-law.

Table 5.5.2.4 provides the development standards for detached additional residential units (ARUs) and states that an ARU must be located a maximum of 40 m (147.6 ft) from a public street. The purpose of the maximum distance from a public street is to ensure that efficient servicing (i.e. water and sanitary) can be provided to the lands. In this instance, in light of the existing single detached dwelling being located towards the rear of the lands, the municipal water service already extends a considerable distance from the lot frontage and would not be required to be extended substantially further to accommodate the proposed ARU.

In addition, this provision is in place to ensure that emergency services are able to access the ARU in the event of an emergency (i.e. fire or medical). The requested distance of 75.3 m (247 ft) rather than 40 m (131 ft) would not appear to pose a problem from an emergency services standpoint as the existing laneway would be extended to the proposed ARU for access purposes.

The provisions in the Zoning By-law (both 5.1.1.3 and 5.5.2) are intended to ensure that accessory uses and structures remain clearly secondary to the main residential use of the lands and have minimal impact on neighbouring lands. Further, these provisions assist in ensuring that sufficient space is maintained on the lands to accommodate for off-street parking, grading and drainage, private services and to allow for the provision of private amenity space.

In the opinion of staff, the proposal meets the general intent and purpose of the Township Zoning By-law.

(f) Desirable Development/Use:

In determining whether a variance is desirable, the Official Plan provides that the following factors be considered:

- Whether there are constraints and/or restrictions due to physical or inherent conditions of the site;
- Whether alternative designs of the proposal are clearly not feasible or appropriate;
- Whether approval would create an undesirable precedent;
- Concerns of adjacent owners and residents, and community in general; and,
- Whether compliance with the By-law would be unreasonable or impossible

It is the opinion of this office that the applicants' proposal to obtain relief to facilitate the construction of a detached ARU would be desirable for the subject lands. The applicants have proposed the above noted relief to facilitate the construction of a detached ARU in the rear yard of the existing single detached dwelling.

Although the proposed relief is well in excess from the provisions of the By-law, the proposal can be viewed as desirable as it appears unlikely to have negative impacts on adjacent properties in the immediate area. Further, the proposed ARU meets all of the required provisions outlined in Table 5.5.2.4 for detached ARU's on private servicing, with the exception of the maximum permitted distance from a public street, as previously identified in this report.

In light of the foregoing, staff are of the opinion that this proposal is minor in nature and satisfies the four tests for minor variances as set out in Section 45(1) of the *Planning Act*.

RECOMMENDATION:

That the Township of Blandford-Blenheim Committee of Adjustment **approve** Application File A06-24, submitted by Chris and Victoria Plested for lands described as Part Lot 12, Concession 1 (Blenheim), Part 1, Plan 41R6323 in the Township of Blandford-Blenheim as it relates to:

1. Relief from **Section 5.5, Table 5.5.2.4 - Provisions for Detached Additional Residential Units**; to increase the maximum distance between a public road and a detached additional residential unit (ARU) from 40 m (131.2 ft) to 75.3 m (247 ft).

Subject to the following condition:

- i. That the proposed relief shall only apply to an ARU of the approximate size and location as depicted on Plate 3 of Report CP 2024-318.

The proposed relief meets the four tests of a minor variance as set out in Section 45(1) of the Planning Act as follows:

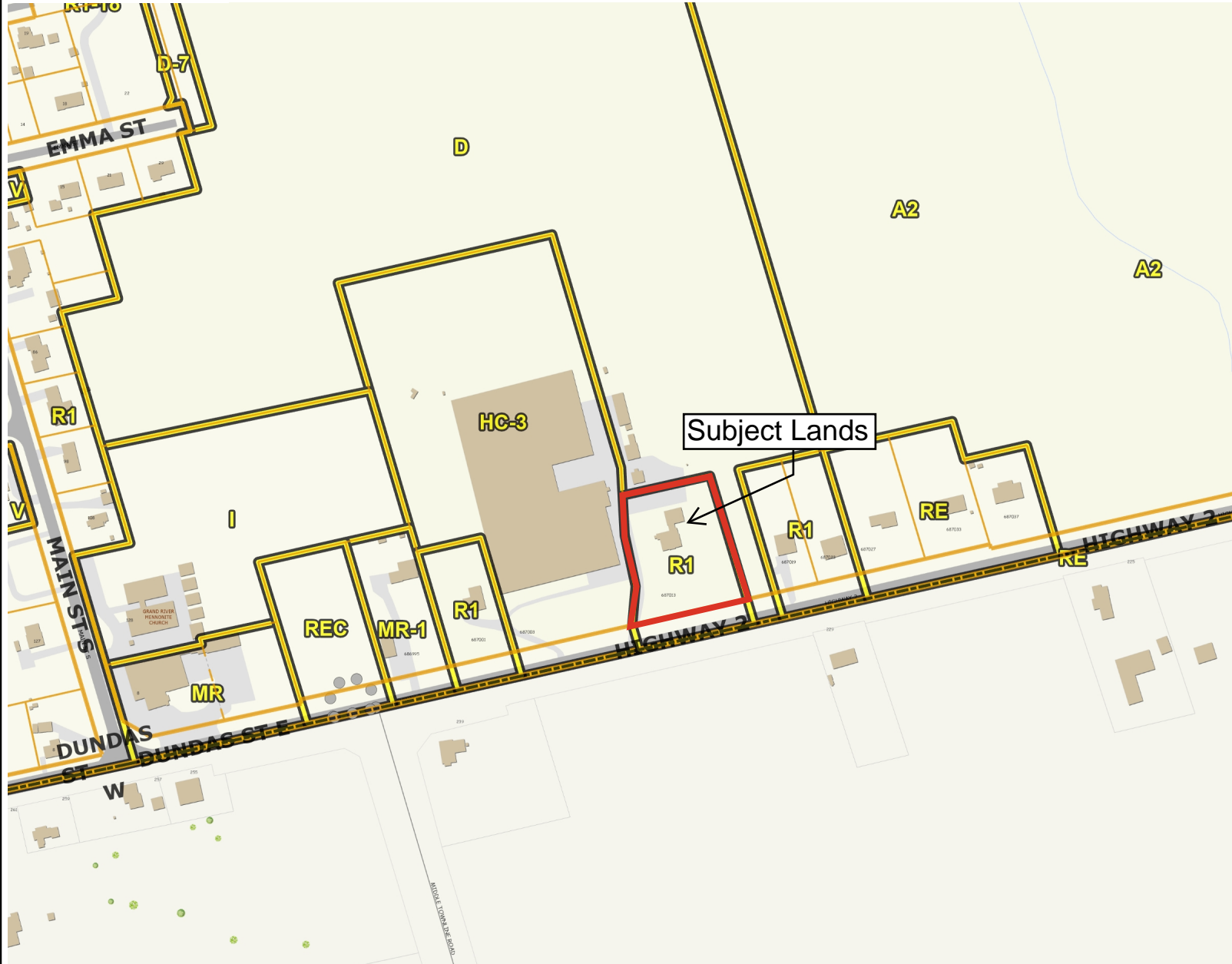
- i) deemed to be minor variances from the provisions of the Township of Blandford-Blenheim Zoning By-law No. 1360-2002;
- ii) desirable for the appropriate development or use of the land;
- iii) in keeping with the general intent and purpose of the Township of Blandford-Blenheim Zoning By-law No. 1360-2002, and;
- iv) in keeping with the general intent and purpose of the Official Plan of the County of Oxford.

Authored by: *Original Signed by*

Dustin Robson, MCIP, RPP
Development Planner

Approved by: *Original Signed by*

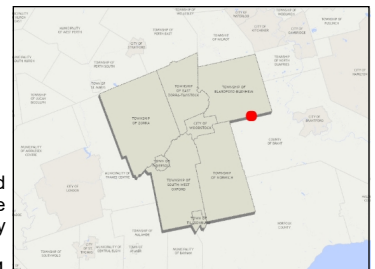
Heather St. Clair, MCIP, RPP
Senior Planner



Legend

- Parcel Lines**
 - Property Boundary
 - Assessment Boundary
 - Unit
 - Road
 - Municipal Boundary
- Zoning Floodlines**
- Regulation Limit**
 - ◆ 100 Year Flood Line
 - ▲ 30 Metre Setback
 - Conservation Authority Regulation Limit
 - Regulatory Flood And Fill Lines
- Land Use Zoning (Displays 1:16000 to 1:500)

Notes



0 102 205 Meters

NAD_1983_UTM_Zone_17N



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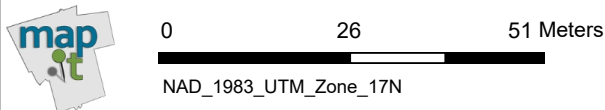
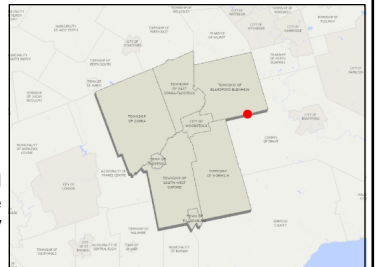
September 23, 2024



Legend

- Parcel Lines**
 - Property Boundary
 - Assessment Boundary
 - Unit
 - Road
 - Municipal Boundary
- Zoning Floodlines**
- Regulation Limit**
 - ◆◆ 100 Year Flood Line
 - ▲ 30 Metre Setback
 - ▬ Conservation Authority Regulation Limit
 - ◆◆ Regulatory Flood And Fill Lines
- ▭ Land Use Zoning (Displays 1:16000 to 1:500)

Notes



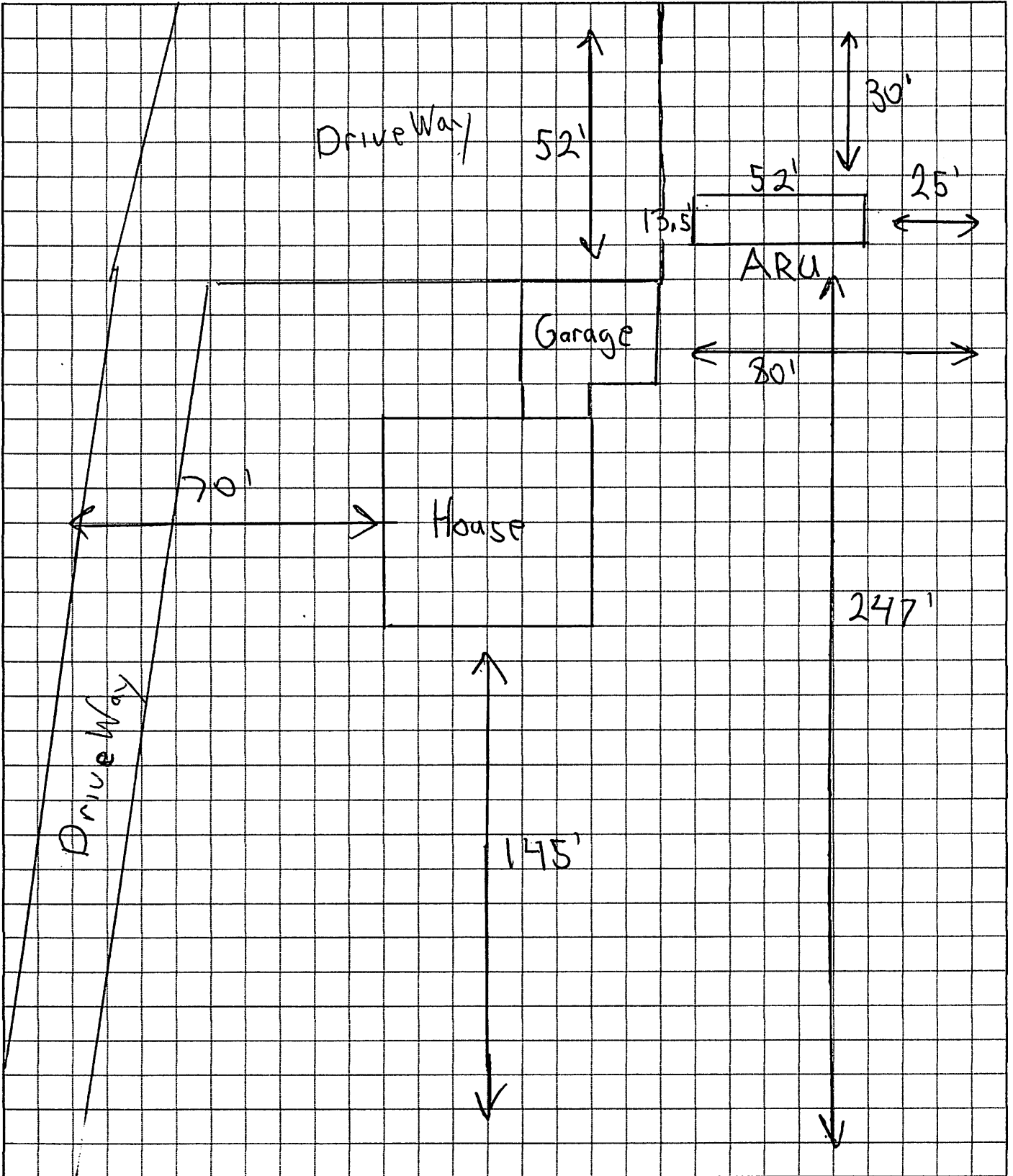
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September 23, 2024

SKETCH/SITE PLAN

USE THIS PAGE FOR SKETCH (OR SURVEY PLAN IF AVAILABLE) AND ATTACH TO APPLICATION FORM.
WITHOUT SKETCH OR SURVEY PLAN, THE APPLICATION WILL NOT BE PROCESSED.

Plate 3: Applicants' Sketch
File No. A06-24 (Plested)
Part Lot 12, Concession 1 (Blenheim), Part 1, 41R6323, Township of Blandford-Blenheim - 687013 Highway 2



264'
Road

LINDSEY A. MANSBRIDGE, CLERK

21 Reeve Street, PO Box 1614

Woodstock, ON N4S 7Y3

519.539.9800, ext. 3017 | 1.800.755.0394

oxfordcounty.ca

October 2, 2024

VIA EMAIL

RE: Southwest Community Transit Services

At its meeting held September 25, 2024 Oxford County Council adopted the following resolution:

Moved By: Bernia Martin
Seconded By: Deb Gilvesy

Resolved that correspondence from the South Central Ontario Region Economic Development Corporation (SCOR) dated September 17, 2024, be received, and;

Whereas the County of Brant, Middlesex County, Municipality of Strathroy Caradoc, Norfolk County, Town of Tillsonburg, Municipality of East Zorra-Tavistock, Grey County, Perth County, City of Stratford, Municipality of Lambton Shores, and Wellington County have successfully utilized government funding to create and sustain local community transit through Southwest Community Transit; and

Whereas 85,000 riders have utilized the Southwest Community Transit services in the first half of 2024 alone, demonstrating significant community reliance on these services; and

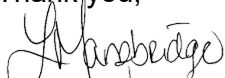
Whereas the economic impact of this transit system is estimated to be \$748,800,000 annually, largely due to its role in providing transportation to employment opportunities; and

Whereas the current funding for this critical small urban and rural inter-community transit service is set to expire in March 2025, putting the sustainability of the service at risk;

Therefore, be it resolved that County of Oxford Council urges the provincial government to continue funding Southwest Community Transit beyond March 2025 to ensure the ongoing viability of this essential service for small urban and rural Ontario.

Be it further resolved that this resolution be circulated to the County of Brant, Elgin County, Middlesex County, Norfolk County, Oxford County, Municipality of Strathroy Caradoc, Town of Tillsonburg, Municipality of East Zorra-Tavistock, Perth County, City of Stratford, Municipality of Lambton Shores, Wellington County, Bruce County, Municipality of Bayham, Municipality of Thames Centre and other relevant stakeholders for their support and advocacy.

Thank you,



Lindsey A. Mansbridge

Clerk

CC: Oxford County Area Municipal Clerks

June to Mid-September 2024 Economic Development Activity

Business Support:

- a. General Business/Marketing Support Interactions: 25
- b. Expansion, Location & Development Conversations: 11
- c. Business Visits: 20
- d. Events Attended: 5

Expansion, Location & Development Conversations by Industry:

Aquaculture, Agriculture, Residential Construction, Manufacturing, Downtown Rural Retail/Commercial, First Nations Healing and Learning Centre, Child Care Centre, Live/Work Development, Renewable Energy, Truck & Trailer Repair

Events Attended:

Bright Cheese & Butter's 150th Anniversary, FedDev's Funding Announcement in Support of Tourism in Oxford County & Southwestern Ontario, Berrylicious Sample & Savor Event, Sevita Community Appreciation Event, Canada's Outdoor Farm Show

Projects & Partner Collaboration:

- a. That's a Wrap on our Oxford Rural Entrepreneurs Networking Event Series!
 - April 10th – Bright Cheese (Blandford-Blenheim), 30 attendees
 - May 8th – Willow Grove Animal Wellness Centre (Norwich), 25 attendees
 - June 12th – Guns Hills (Norwich), 23 attendees
 - July 10th – Extended Beauty Spa (Zorra), 10 attendees
 - August 14th – Orange Door Acres (South-West Oxford), 25 attendees
- b. 3 NEW Stories have been added to our Newsroom
 - Rural Oxford EDC teams up with COFS on new exhibit; Tourism Oxford and Snyder's Family Farm utilize federal funding to enhance local tourism experiences; Ontario opens nominations for Excellence in Agriculture Awards
 - Learn More: <https://ruraloxford.ca/news>
- c. Oxford Connection FAM Tour – September 23rd & 24th
 - Oxford Connection partners hosted 50+ Industrial & Commercial Developers, Site Selectors, Realtors and industry partners at the bi-annual FAM Tour networking event designed to showcase opportunities in Oxford County

- d. "Discover Rural Oxford" at Canada's Outdoor Farm Show (COFS) – September 10,11 & 12, 2024 <https://ruraloxford.ca/discover>
- 15 Rural Oxford Businesses featured; 2 Staff + 9 Volunteers worked the Exhibit (including Tourism Oxford & The Small Business Centre)
 - 1000's of people visited the Exhibit located just inside Gate 2
 - Feedback survey being sent to participants and volunteers
 - Some early participant responses confirm this pilot initiatives success
 - Next Steps: Debrief Meeting to review lessons learned; Submit final report and expenses to RED Fund Administration

Here are 4 participant quotes:

"The opportunity to work together with other rural businesses and to have everything so well coordinated for our benefit was tremendous. I highly recommend being part of this opportunity and I hope that we are able to do it again!" - Stefan Cartmale, Bright Cheese & Butter Manufacturing Co.

"I was proud to be featured by ROEDC in the outdoor farm show. Not only was my brand well represented, but being featured along other rural Oxford businesses allowed for excellent networking, camaraderie and brand exposure. I would do this event again without a second thought." - Erica Merchand, Bear + Fox Apparel

"20/10. The exposure, collaboration, and community feel was amazing. It was very well organized. We felt supported, and felt treated like royalty. Amazing job!" - Alisha Wilson, Transitions Equine Assisted Learning

"Having the opportunity to showcase our products and build brand awareness at such a large trade show was very valuable to our business. Due to our small size, it would have been impossible to have our own booth and staff it for the length of the show, so the chance to work with ROEDC and other local small businesses was the perfect fit!" - Marja DeBoer-Marshall, The Golspie Dairy

- e. Business Outreach Meetings
- 20 of 25 Manufacturing & Agri-Food Business outreach visits complete-to-date
 - Some visits have been coordinated with MEDJCT, OMAFA & FedDev reps
 - Follow-up survey being sent to each company with business resources
- f. Community Connection Meetings:
- Tour Enbridge Dawn Hub with SCOR EDC; London Regional Employment Services; 4 Oxford County Economic & Development Planning Collaboration Meetings; EDCO Special Meeting; Woodstock Fair Grounds; Warden Ryan; Tourism Oxford & Small Business Centre; MEDJCT; OMAFA; FedDev; Canada's Outdoor Farm Show

Governance & Administration:

- Worked with K. Deprest on Draft 2025 Budget
- September 13th Audit & Finance Committee Meeting
- September 27th Board Meeting
- Renewed D&O Liability Insurance Policy

REPORT TO COUNTY COUNCIL

Automated Speed Enforcement Program Update

To: Warden and Members of County Council

From: Acting Director of Public Works

RECOMMENDATION

1. That County Council receive Report PW 2024-36 titled “Automated Speed Enforcement Program Update” as information.

REPORT HIGHLIGHTS

- The purpose of this report is to inform Oxford County Council of preliminary findings for implementing a County-wide Automated Speed Enforcement (ASE) program.
- To develop and operate the proposed ASE program, the County will need to pursue multiple servicing agreements necessary to facilitate the program.
- The ASE program would authorize the County of Oxford to assess and process Administrative Monetary Penalties (AMPs) against drivers who contravene camera-based speed enforcement offences, as permitted under the *Highway Traffic Act (O. Reg. 355/22)*.

IMPLEMENTATION POINTS

Initial development of a proposed County-wide ASE program will proceed in 2025 and will include benchmark traffic data collection, ASE site assessment, execution of agreements with service providers and detailed financial analysis for potential implementation starting in 2026.

Future approval by County Council will be required for related one-time and ongoing operational expenses and entering into agreements with service providers necessary to facilitate the program.

Financial Impact

The annual operating costs of an ASE program are anticipated to include:

- Leasing mobile cameras
- Mobile camera rotation and setup
- Joint Processing Centre (JPC) violation processing fees
- Ministry of Transportation processing and administration fee
- Additional County staff resources
 - Deployment of warning signage
 - Traffic Management Supervisor
 - Vehicle operating and replacement costs, telecommunications, etc.
 - Administrative Penalty (AP) Program Manager
 - AP Screening Officer
 - AP Clerks
 - AP Supervisor (0.5 FTE)
 - Computers, phone, other office administration related expenses
- AP Case Management Software Annual License Fee
- Office space operating costs

In terms of operating revenues, penalty orders for speeding in Ontario are pro-rated for each kilometre over the posted speed limit, as prescribed in section 128(14) of the *Highway Traffic Act*. As such, the total penalty order revenue is subject to the number of infractions, as well as the degree to which speeding infractions are over the legal posted speed limit. Based on experience shared by municipalities that have deployed an AP program, staff anticipate the County could generate approximately 28,000 penalty orders in a year at the start of the program, assuming a 40% conviction pay rate per year – meaning the remaining 60% are screened out as non-defensible or are never paid.

To better estimate the County's potential revenues and contract costs with the JPC and Ministry of Transportation Ontario, staff will have to update traffic counts in each of the community safety zones in the coming year to determine the volume of potential violations that will be processed, issued and collected.

In addition to the annual operating expenses noted above, additional one-time expenses will be incurred with the development of the ASE program which will include:

- Traffic data collection to establish benchmark speed data
- AP Case Management Software implementation
- Computer equipment – 5 laptops
- Telecommunications – 2 mobile phones
- Vehicle: HEV Compact Pick-up - Transportation Technologist (existing position)
- Administration facility with public access

Further review will be required to determine feasibility for modifications to the existing Provincial Offences Office to accommodate the administration of an AP program. Staff estimate that an architectural and engineer review will need to be undertaken to make that determination. This

undertaking could be completed in 2025, subject to Council approving the cost of this assessment in the budget.

As these costs estimates are refined in 2025, staff will bring forward a financial plan for Council’s consideration for implementation in 2026.

Communications

This report is intended to inform Council of staff’s preliminary findings for implementing an AP program for school zone (SZ) and community safety zone (CSZ) automated speed enforcement in Oxford County, including an estimated timeline.

A copy of this report will be forwarded to Area Municipalities, Ontario Provincial Police, and Woodstock Police Service.

2023-2026 STRATEGIC PLAN

Oxford County Council approved the **2023-2026 Strategic Plan** on September 13, 2023. The Plan outlines 39 goals across three strategic pillars that advance Council’s vision of “Working together for a healthy, vibrant, and sustainable future.” These pillars are: (1) *Promoting community vitality*, (2) *Enhancing environmental sustainability*, and (3) *Fostering progressive government*.

The recommendation in this report supports the following Strategic Plan pillars and goals:

|  |  |  |
|---|--|--|
| <p style="text-align: center;">Promoting community vitality</p> | <p style="text-align: center;">Enhancing environmental sustainability</p> | <p style="text-align: center;">Fostering progressive government</p> |
| <p>Goal 1.2 – Sustainable infrastructure and development</p> | <p>Goal 2.1 – Climate change mitigation and adaptation Goal 2.2 – Preserve and enhance our natural environment</p> | <p>Goal 3.1 – Continuous improvement and results-driven solutions Goal 3.2 – Collaborate with our partners and communities Goal 3.4 – Financial sustainability</p> |

See: [Oxford County 2023-2026 Strategic Plan](#)

DISCUSSION

Background

The province enacted *Ontario Regulation 398/19 - Automated Speed Enforcement* under the *Highway Traffic Act (HTA)* in 2019. ASE is an automated system that uses a camera and speed management device to enforce speed limits in designated SZs and CSZs. These enforcement devices capture an image of speeding vehicles for review by municipal joint processing centres, where if the violation is confirmed upon review, a violation can be issued to the vehicle owner.

Several uncertainties were evident during the initial municipal launch of the ASE program across Ontario in 2020. Of note, a 180-day provincial review of the program as undertaken by other municipalities (City of Toronto, City of Ottawa) was first expected to occur in 2020 but was not initiated by the MTO until 2022 due to COVID. Oxford County, like many municipalities, has been awaiting the outcome of this review in order to assess overall ASE program viability and inform their planning, violation processes and business case development for potential ASE program implementation. Unfortunately, the Province has not since published any formal review results or findings.

In lieu of this absent review information, staff have subsequently obtained additional clarity about ASE program operation and processes through ongoing liaison with the Ontario Traffic Council (OTC) and other municipalities who have since been operating ASE programs.

Provincial Offences Act Framework

It is recognized that the ASE program was originally envisioned to operate with the municipal application of Provincial Offences Act (POA) processes. Under this POA framework, a ticket is issued, and vehicle owners can then dispute their offences in court if they choose to contest the offense, like any typical traffic ticket. Filing all ASE offences through the POA court system puts a burden on the scarce judicial resources provided by the Province. If there is too high a volume of tickets appealed to the POA court, then they will not be dealt with in a timely way which may result in the need to dismiss the ticket or de-prioritize and dismiss other charges.

It is noted that several municipalities who have proceeded with ASE implementation using the POA approach are experiencing significant backlogs within their Provincial Offences Courts. Further, some other municipalities are not participating at all in ASE initiatives because of their already over-burdened POA court system (shortage of judicial resources and court scheduling time).

Administrative Penalty System Framework

In mid-2022, the Province passed legislation under the *HTA, 2019 (O. Reg. 355/22)* which allowed automated enforcement charges (ASE, red light camera, school bus camera) to be processed as Administrative Monetary Penalties (AMP). This approach allows municipalities to collect fines and manage ticket disputes through municipally administered screenings and hearings (separate from the POA system).

Accordingly, several municipalities are starting to shift towards the application of an Administrative Penalty System (APS) approach for ASE violations, to which their programs can be expanded to other areas, such as red-light camera (RLC) and automated school bus camera (ASBC) offenses. Under the APS, municipal ASE Screening and Hearing Officers can affirm, modify or cancel penalties to drivers who contravene camera-based speed enforcement offences. Further, as municipalities are able to set the fee (not fine) for the AMPs, the amount can be higher than a set fine amount prescribed in the POA model, allowing for greater levels of program cost recovery.

Comments

On the basis of these findings, staff would recommend the County further pursuing an AMPs regulatory framework approach to administer a County-wide ASE program.

Service Agreements

In order to establish and implement supporting architecture to the ASE program, the County will be required to enter into the following service agreements:

- Authorized Requester Agreement: *Ontario Ministry of Transportation (MTO)*
 - authorized access to license plate registry for processing speeding violations
- Violation Processing Services Agreement
 - operation and cost sharing of a municipal JPC for processing speeding violation penalties and issuing penalty orders
- Approved Equipment Vendor Agreement
 - equipment vendor for the supply, installation, operation and maintenance of the ASE cameras
- AP Hearing Officer
 - Third party review (second stage appeal) of appellant administrative penalties which have been confirmed and issued by Oxford's AP Screening Officer

All other operational aspects of the ASE program, including collection and monitoring of safety data at site, complying with advisory signage requirements prior to implementation in each location, managing penalty payments, administering screenings and hearings, determination of camera rotation schedules, communications, site studies etc., are the responsibility of the County.

Proposed ASE Program Operation

Two mobile ASE camera systems are proposed to be initially deployed and rotated every few months throughout various SZs and CSZs across the County (applicable to site locations approved by County Council via Reports [PW 2023-05](#) and [PW 2024-04](#)). It is recognized that these approved sites will need to be further screened and evaluated for ASE suitability based on specific vendor camera installation requirements. Collection of benchmark speed data will be required in 2025 in order to validate charge volume projections to support JPC resource requirements, as well as for future assessment of the effectiveness of the proposed ASE program for submission to the MTO.

In this regard, it is possible that some approved sites may be deemed ineligible for ASE camera installations due to technical constraints (insufficient space for camera base, sightline/visual obstructions, steep road/boulevard slopes, proximity to intersections/stop signs/crosswalks/on street parking areas, etc.), which may interfere or constrain the reliability and consistent operation of the cameras.

The proposed ASE program may be expanded overtime by increasing the number of camera systems, as well as operating the program on behalf of Area Municipalities if there is interest to do so. The County, like other municipalities employing an ASE program, can increase (or decrease) the quantity of cameras at any point in the contract (subject to equipment availability, municipal JPC capacity, etc.). In this way, the County can sustainably modify the ASE program as informed by annual monitoring of the overall effectiveness and financial viability of the program.

Each location would be identified with appropriate warning signage advising motorists they are entering a speed enforced area; however, ASE equipment would only be in operation at any two of the locations at any given time. A 90-day advisory signage period must be implemented prior to activating ASE cameras at any location.

When any cameras are deployed with SZ (only) sites, they will be operated within the prescribed school periods where reduced speed limits are in effect. Time of day/week operation can be further modified to provide focused enforcement during daytime hours, weekends and peak traffic periods as deemed warranted.

Accordingly, approximately 12 weeks are afforded to allow for any down time for camera mobilization/demobilization between sites, extreme weather events, holidays and times when school is not normally held. It is also likely that cameras may experience a significant amount of vandalism (including stolen and damaged cameras) which could further take these devices offline for periods of time until they are repaired, calibrated and re-approved for deployment.

It is anticipated that cameras will be rotated approximately every two months based on the substantive process involved to change signage as well as decommission, relocate and recommission the cameras. Of note, County staff will monitor these locations by completing "before" and "after" speed study to measure the effect that the ASE has had on speed compliance.

ASE Program Staffing Requirements and Resources

The ASE program will require significant work to manage the associated service contracts, site selection/inspection, equipment deployment, data collection/reporting, and performance monitoring. To support and administer this program, additional staff resourcing is required within the County's Transportation Division.

The creation of a Traffic Management group within the Transportation Division is proposed with the addition of a new Supervisor position (1.0 FTE). The role of this position would not only involve administering the ASE program but would also be responsible for overall traffic management and road safety initiatives supported by the Transportation Technologist position that was newly created in 2022.

This will ease the workload of the current Transportation Supervisor position to allow for a greater focus on operation, maintenance and capital planning of transportation assets. Future expansion of the proposed traffic management group is anticipated to meet ongoing traffic demand management needs resulting from economic growth and development.

Establishing an Administrative Penalty System framework to process penalty orders issued under an ASE program will also require additional staff resources consisting of a new AP Program Manager (1.0 FTE), two AP Clerks (2.0 FTE), one Screening Officer (1.0 FTE) and a Supervisor (0.5 FTE). The AP program will be part of the Corporate Services Department and operate along side, but separate from, Provincial Offences Administration (POA).

CONCLUSIONS

In line with the County's 2023-2026 Strategic Plan, the potential implementation of a County-wide ASE program fully supports the County-wide approach for speed management and traffic calming (adopted by County Council through Report [PW 2019-14](#)) and the County's 2024 Transportation Master Plan strategic road network initiative.

SIGNATURES

Departmental approval:

Original signed by

Frank Gross, C. Tech
Manager of Transportation and Waste Management Services

Approved for submission:

Original signed by

Benjamin R. Addley
Chief Administrative Officer



TOWNSHIP OF BLANDFORD-BLENHEIM

Agenda Item

| | | | |
|---------------------|--------------------------|----------------------------------|---|
| To: | Members of Council | From: | Drew Davidson Director of Protective Services |
| Reviewed By: | Josh Brick, CAO | Date: | October 7 th , 2024 |
| Subject: | September Monthly Report | Council Meeting Date: | October 16 th , 2024 |
| Report #: | FC-24-20 | | |

Recommendation:

That Report FC-24-20 is received as information.

Background:

To provide Council with an update regarding the activities of the Protective Services Department, for the month of September 2024.

Analysis/Discussion:

Meetings, Courses and Training Attended:

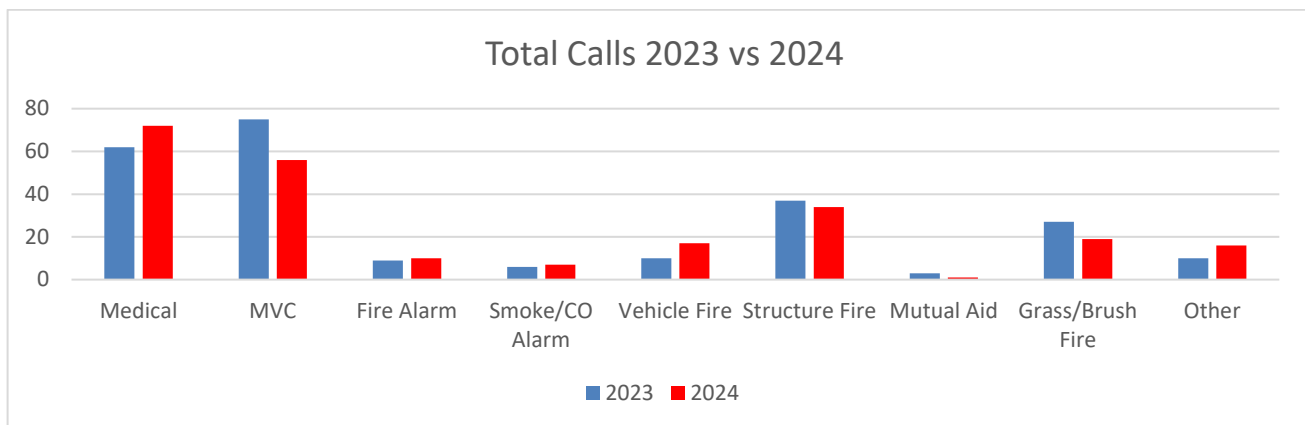
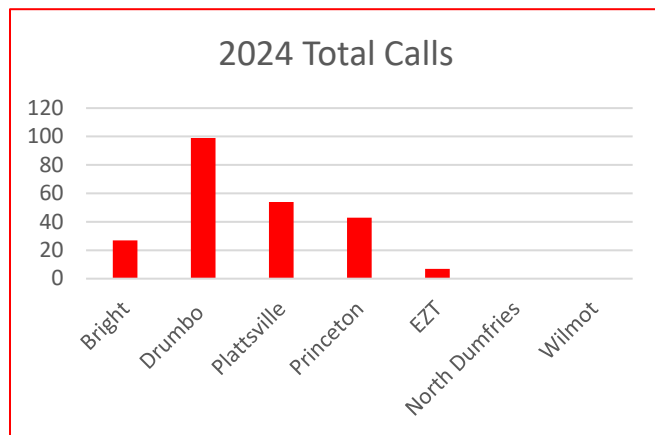
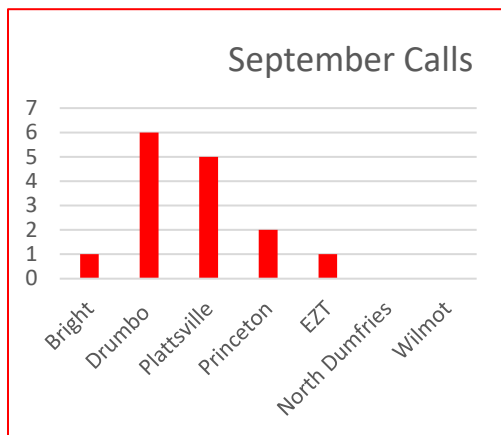
- As a department we have completed our annual testing of bunker gear, this involved sending all gear out to a third party over the course of the summer months. Approximately fifteen sets would be sent out at a time, during this time staff ensured our firefighters had spare gear to don while their set was out for testing followed by washing any spare gear that was worn during this period prior to being issued to a fellow firefighter.
- Staff and firefighters attended Canada's Outdoor Farm Show on September 10th. For the duration of the day, Princeton pumper was at the show on standby with a crew ready to attend fire suppression duties should a situation arise. Our fire prevention tent was well attended with all ages taking an interest in our messaging and safety tips.
- RFSOC chiefs had the formal signing of becoming an official Regional Training Centre. With this now complete we begin to look at the 2025 calendar and the training schedule under the OFC calendar.
- Staff along with our CAO and District Chief Cadwell travelled to Mitchell and Milverton to meet with our engineer Nelson Dawley for the new Princeton station. The purpose was to investigate the two stations that had recently been completed and see what would work in our new Princeton design. Chief Bill Hunter from Perth County took time out of his busy schedule to show us around and explain items of the design that worked well and areas that could be improved on. Staff continue to work with our engineer to create a design that will be of the greatest benefit for the township, now and in future years to come.
- Budget time is once again upon us and staff has been working hard to put forth a budget that lays out a strategy for not only the upcoming year, but years to come.

- We held our fall District Chiefs meeting in September to look back at summer events followed by discussion regarding a very busy calendar leading us to the end of the year. Our Director of Public Works Jim Borton attended the beginning of our meeting with some great insight as to what would assist his staff when the fire department calls for assistance in regards to closing roads, reopening roads, and sanding roads when the fire department has been shuttling water during the winter months. This was followed by our training officers presenting a snapshot of how the training program is continuing to work in a forward direction and their plan for bringing together a tracking system that will make it easier for both the trainer and firefighter to track their progression and sign-offs without a mountain of paperwork to carry around.

Fire:

- 29 burn permits were issued in September 2024
- September 2024 monthly fire calls with annual comparisons (included)

September Fire Reports:



CEMC – September 2024

- Attended Virtual meeting with County CEMCs and Oxford County regarding consolidated grant application for decontamination trailer (MNR Legacy Oil and Gas Well Project)

Fire Prevention – September 2024

- Residential...1
- Commercial...1
- New Fire Prevention Officer started September 25th and will begin with Township facilities in October

By-Law Enforcement – September 2024

Fencing...1

Zoning...3 - order issued ...1

Noise...4

Property standards...1

Land and clear...1

Respectfully submitted by:



Drew Davidson
Director of Protective Services



TOWNSHIP OF BLANDFORD-BLENHEIM

Agenda Item

| | | | |
|---------------------|--------------------|----------------------------------|---|
| To: | Members of Council | From: | Drew Davidson Director of Protective Services |
| Reviewed By: | Josh Brick, CAO | Date: | October 7, 2024 |
| Subject: | Camp 85 Review | Council Meeting Date: | October 16, 2024 |
| Report #: | FC-24-21 | | |

Recommendation:

That Report FC-24-21 be received as information.

Background:

Over the course of five days July 9th -13th 2024, Blandford Blenheim hosted our second annual Camp 85. This report along with the attached summary is intended to give council an insight as to the success of this program throughout our community.

Discussion:

To highlight the benefit of having a program like this run in our township and the way our stations have come together to produce such an event with the community support in every aspect is something we are all very proud off.

Camp 85 is proving to be a place where young people can experience and practice lifelong skills, from climbing a ladder for the first time, using a fire extinguisher, or working as a team to complete a task, the lessons learned are invaluable.

During this week time and time again we hear, "I can't wait to join the fire service" which in staff's mind is the ultimate way of succession planning to ensure our township has residents who understand they do have what it takes to join our department and are excited to do so.

Conclusion:

The success of this camp is not the result of one person, one station, or even one department. It comes from an entire community pulling together to help our young people reach their ultimate potential. I truly believe that it will not be long and we will see recruits who have gone through the camp join our department and because of that opportunity it has given them the knowledge that becoming part of the fire service is right for them.



Township of Blandford-Blenheim

CAMP 85



Blandford-Blenheim ran a very successful Girls Firefighting Camp from July 9th - 13th, 2024 with 23 young ladies participating and 6 past participants taking on the role of assistant platoon leaders. The community support for our camp was unbelievable, including financial donations, food and drink donations, equipment donations, assistance from all departments within the Township and in-person support from our Council.

Throughout the week, we had 4 Platoon leaders and 1 Safety Officer attend the entire week, providing support and encouragement to the girls and instructors. We were also very fortunate to have 6 girls that participated last year volunteer their time throughout the week to be a leader for the platoons and help out from gear fitting to the graduation.

Over the course of the week, we had over 50 members from the fire department, families, sponsors that helped make the camp run smooth and exciting for the girls through creating, demonstrating, teaching and encouraging the girls that they could do anything they tried! As the camp rotated throughout the township with each of the four stations hosting one day, guest speakers attended over the lunch break each day to provide life lessons, career options and overall encouragement to the girls.

With the generous donations that were received, we were able to provide t-shirts, safety helmets, backpacks, water bottles, safety glasses, hoodies and ball caps to participants, helpers and instructors. We were once again able to purchase equipment that can be used going forward.

During the week, we kept the community and families updated through the Blandford-Blenheim Fire Prevention Facebook page.

As you have seen and heard, this camp is an excellent way for young ladies to experience what the fire service is all about, along with the knowledge that they have what it takes to become a member of our department. This camp is the

grass roots of recruitment. Over the past couple of years, there has been conversation throughout the fire service as to how to recruit and retain firefighters in the volunteer sector. I am proud to say that even after two short years we have heard from many participants that they can not wait to turn eighteen and apply to be part of the Blandford-Blenheim Fire Service. It won't be long and we will soon see the benefit of hosting such a successful event.

Items we have learned as we move towards our third year:

- Twenty is the right number of participants for our camp
- Having past participants assist with the camp is useful
- Having cooling stations and back up plan for weather
- Best way to ensure that healthy snacks are readily available

As we move forward and look towards 2025, one question that keeps coming up is, "Is there going to be a camp for boys"

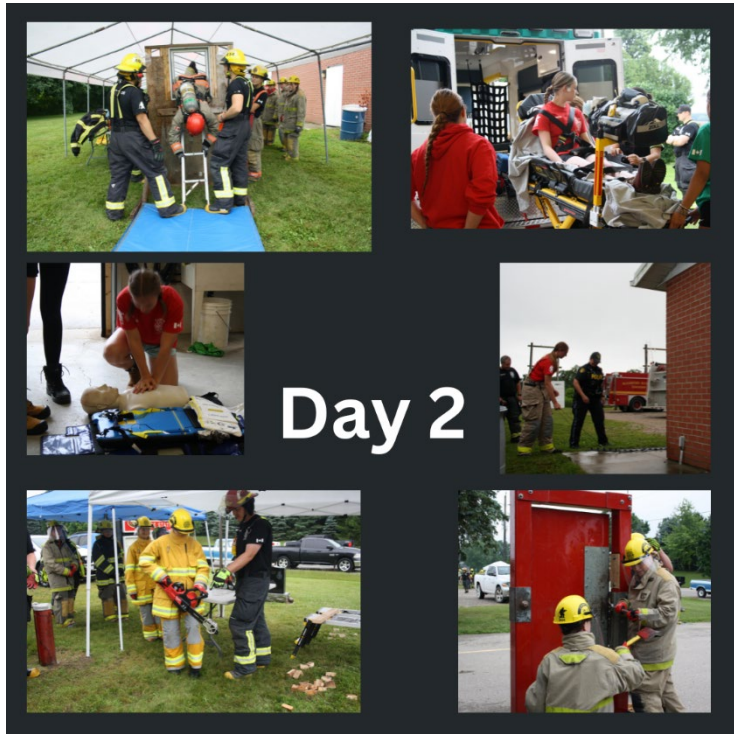
We are currently looking into this and how to offer this camp. Our goal would be to offer alternating years for the boys and girls with 2025 being for the boys followed by 2026 for the girls and so on.



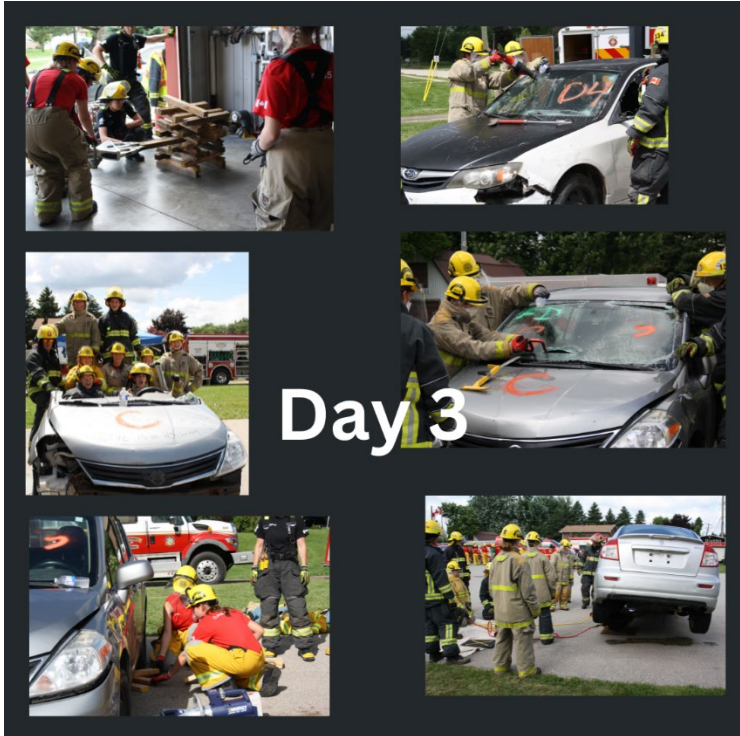
Next year: July 8th - 12th, 2025



Day 1



Day 2



Day 3



Day 4



TOWNSHIP OF BLANDFORD-BLENHEIM

Agenda Item

| | | | |
|---------------------|---------------------------|------------------------------|-------------------|
| To: | Members of Council | From: | Ray Belanger, CBO |
| Reviewed By: | Josh Brick, CAO | Date: | October 9, 2024 |
| Subject: | Monthly Report to Council | Council Meeting Date: | October 16, 2024 |
| Report #: | CBO-24-10 | | |

Recommendation:

That report CBO-23-10 be received as information.

Background:

To provide Council with an update regarding the monthly building activities for the period ending on September 30, 2024.

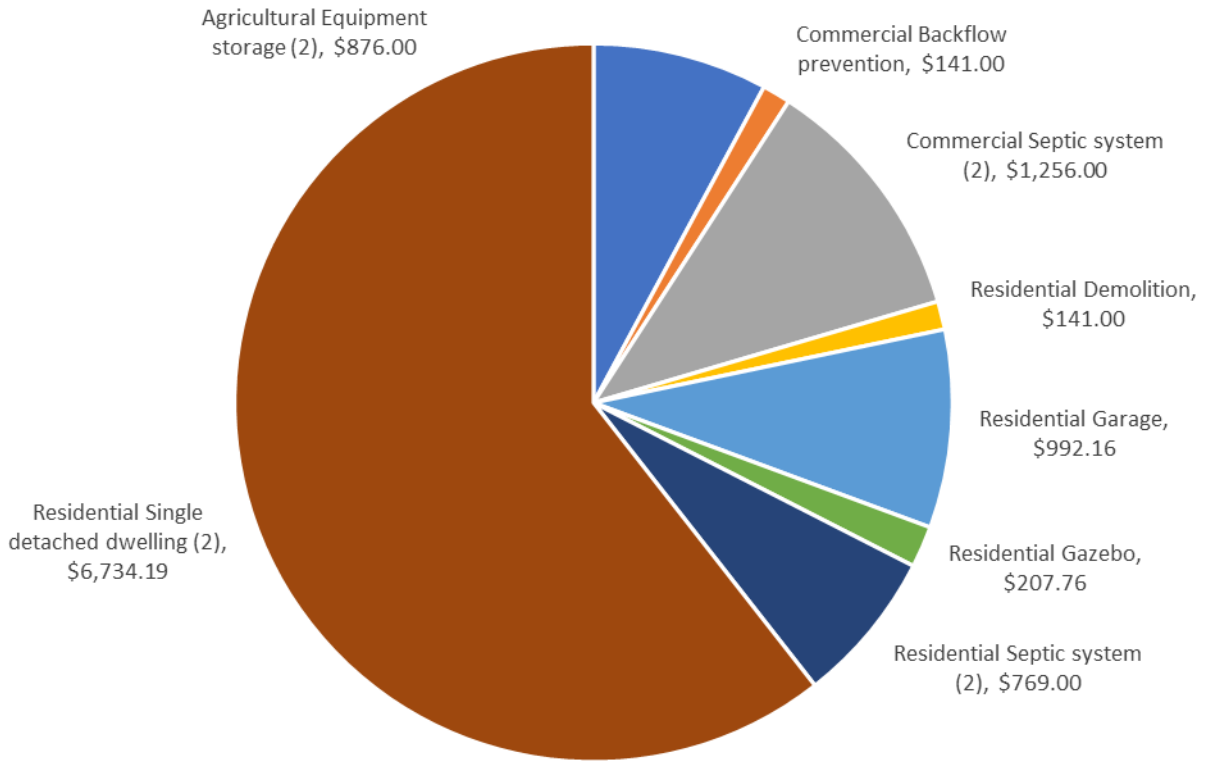
Building Department Updates:

- The building department issued 12 permits for the month of September 2024.
- The CBO attended the Ontario Building Officials Association's (OBOA) Annual Meeting and Training Session (AMTS) in London Ontario. Highlighted seminars include
 - Legal and building code updates
 - TraxCodes integration of relevant building codes utilizing A.I.
 - Home Construction Regulatory Authority (HRCA) mandates
 - Environmental Protection Agency and Record of Site Condition requirements
 - Archistar's eCheck A.I.-driven technology for permit assessment and review

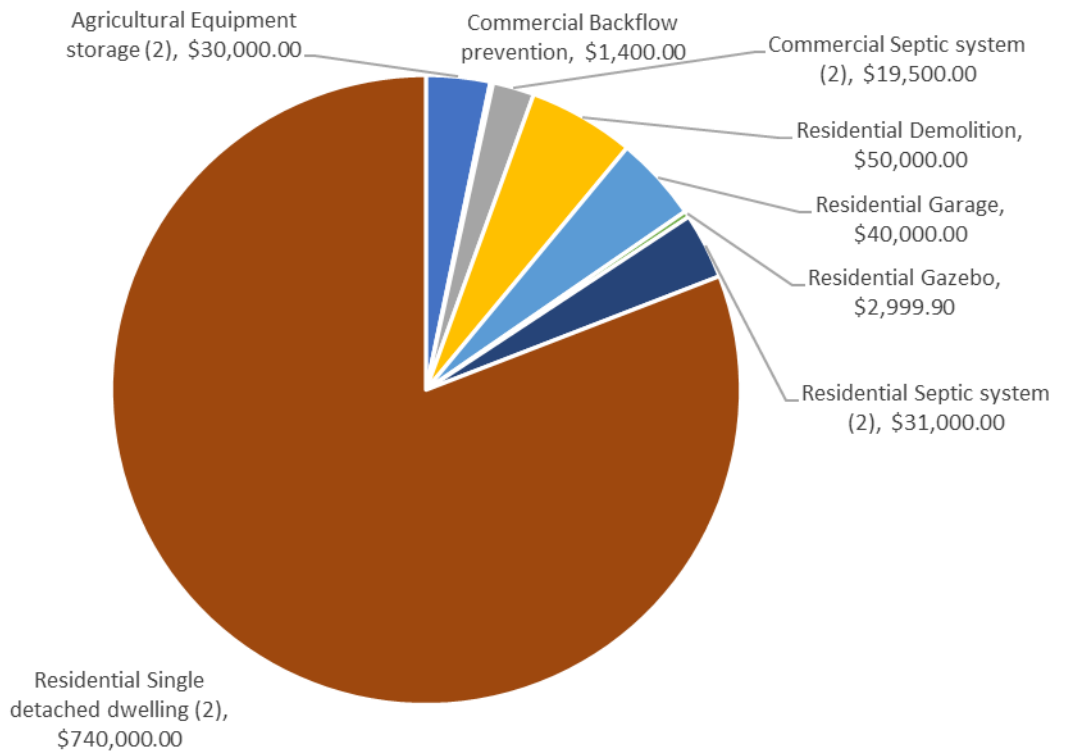
Respectfully submitted by:

Ray Belanger
CBO

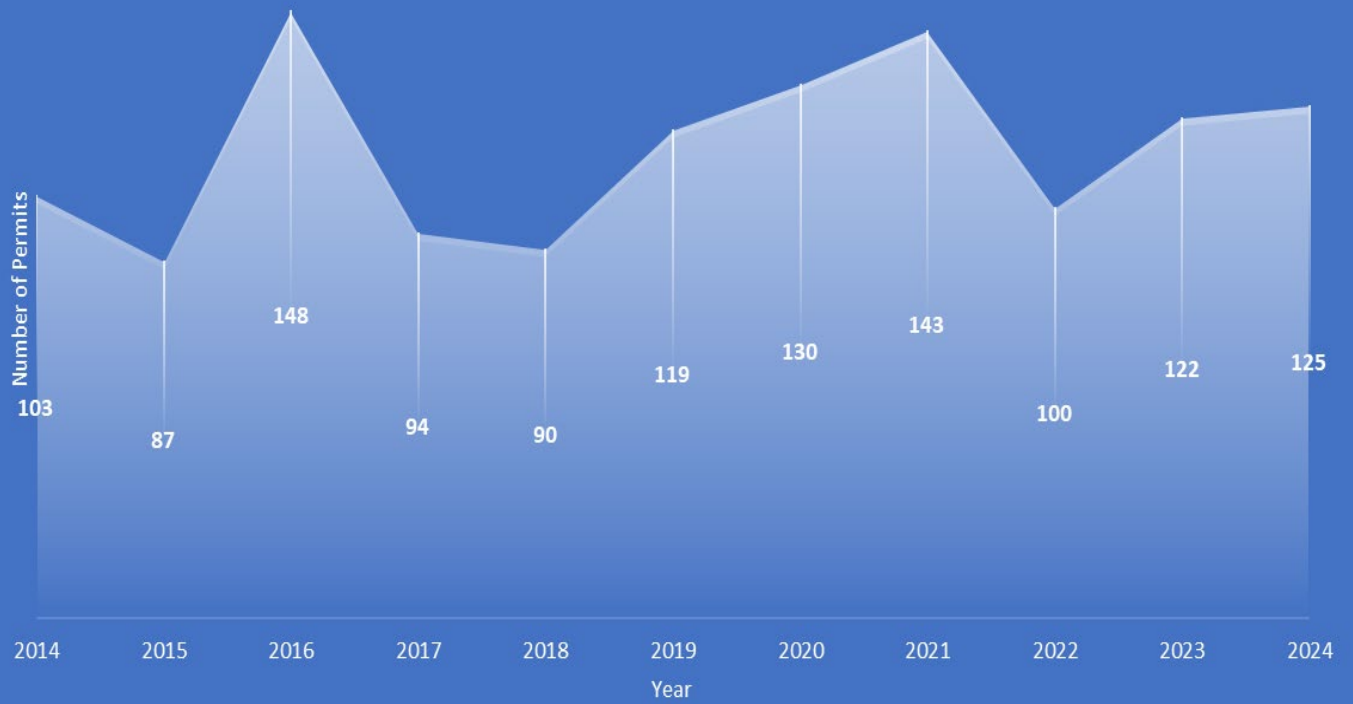
September 2024 Permit Fees



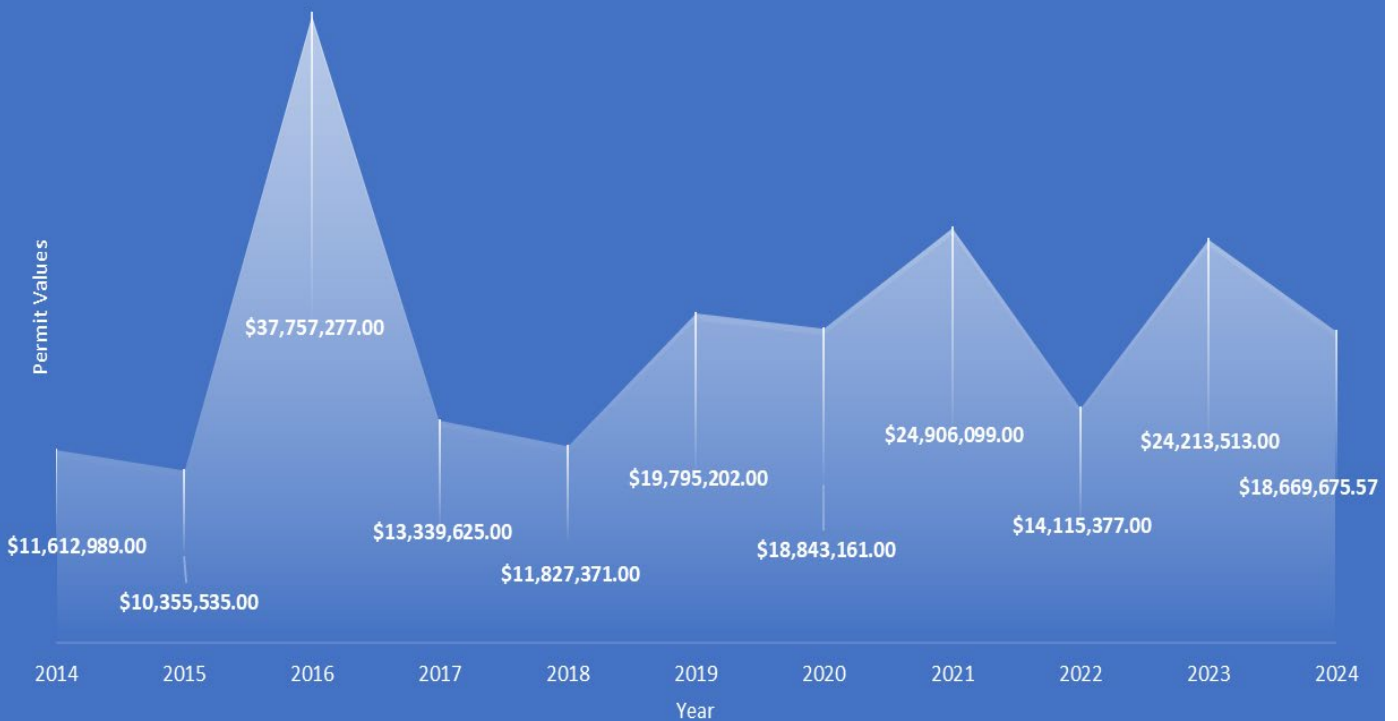
September 2024 Construction Values



YEAR TO DATE PERMIT NUMBERS



YEAR TO DATE PERMIT VALUES





TOWNSHIP OF BLANDFORD-BLENHEIM

Agenda Item

To: Members of Council

From: Trevor Baer

Reviewed By: Josh Brick CAO

Date: Oct 11, 2024

Subject: Award of Princeton Accessible
Playground Project

**Council
Meeting Date:** Oct 16 2024

Report #: CS-24-17

Recommendations:

That Report CS-24-17 be received for information;

And further, that Council awards the Princeton Accessible Playground Project to Henderson Playground Equipment for the playground components and Multi Turf Canada for the accessible flooring, based on their proposals submitted on October 10, 2024.

Background:

The Township of Blandford-Blenheim was awarded grant funding from the Ontario Trillium Foundation to support the construction of an accessible playground in Princeton. Friends of Princeton Park, a community-driven group, have contributed additional funding toward the project to further enhance its scope and ensure its success.

To ensure the project reflects the highest accessibility standards, Township staff consulted with the Oxford County Accessibility Advisory Committee. This committee provides valuable expertise in ensuring public spaces meet accessibility requirements. The committee advises municipalities on best practices for accessibility and compliance with the Accessibility for Ontarians with Disabilities Act (AODA). Their feedback was instrumental in guiding design choices, ensuring the playground meets the diverse needs of all community members.

This playground project is designed to create an inclusive environment where people of all abilities, including seniors, persons with disabilities, Indigenous groups, and other marginalized communities, feel welcome. The collaboration between the Township, Friends of Princeton Park, and Oxford County reflects the community's shared commitment to inclusivity.

Analysis/Discussion:

Township staff and representatives from Friends of Princeton Park evaluated four proposals for playground equipment and four for accessible flooring. A matrix system was used to assess each submission across several criteria:

| Evaluation Criteria | Available Points | Score from Group |
|--|------------------|------------------|
| Company Profile, Qualifications, Experience, and References | 10 | |
| Creativity and Aesthetics (Layout, Colour, Variety) and Accessibility Considerations | 30 | |
| Technical Requirements (Compliance with CAN/C.S.A. Z614-07) | 5 | |
| Warranty | 10 | |
| Delivery and Installation Schedule | 15 | |
| Pricing / Financial Proposal | 30 | |
| Total Available Points | 100 | |

Based on the evaluations, Henderson Playground Equipment was selected for the playground equipment, offering eight accessible and inclusive pieces that align with community needs and safety standards. Multi Turf Canada was chosen to provide flooring that ensures seamless accessibility throughout the entire playground area.

Financial Information:

- **Henderson Playground Equipment:** \$178,435.47
 - Includes eight new accessible playground pieces.
- **Multi Turf Canada Flooring:** \$69,988.73
 - Provides accessible flooring throughout the entire playground area.

Total Project Cost: \$248,423.47

The total project cost is under budget. The Township and Friends of Princeton Park can confidently proceed with the project, knowing it will meet the community's needs while staying within financial limits.

Other Comments:

The input from the Oxford County Accessibility Advisory Committee played a critical role in the project's design, ensuring accessibility and inclusivity were prioritized. The collaboration between Township staff, Friends of Princeton Park, and community partners reinforces the importance of public spaces that reflect the needs and values of all residents.

This playground will foster community engagement, providing a safe, welcoming environment for children, families, and individuals of all abilities. The project also aligns with the Township's long-term commitment to improving accessibility and fostering social inclusion.

Conclusion:

The Princeton Accessible Playground Project is a meaningful investment in community development. With funding from the Ontario Trillium Foundation and support from Friends of Princeton Park, this project will deliver a high-quality, inclusive space for all residents. Awarding the contracts to Henderson Playground Equipment and Multi Turf Canada ensures the successful delivery of a safe, accessible playground that aligns with community values and meets AODA standards.

Prepared by:

Trevor Baer
Director of Community Services
Township of Blandford-Blenheim



TOWNSHIP OF BLANDFORD-BLENHEIM

Agenda Item

| | | | |
|---------------------|----------------------|------------------------------|--|
| To: | Members of Council | From: | Jim Borton Director of Public Works |
| Reviewed By: | Josh Brick | Date | October 10, 2024 |
| Subject: | Pickup Truck Results | Council Meeting Date: | October 16, 2024 |
| Report #: | PW-24-25 | | |

Recommendation:

That Report PW-24-25 be received as information;

And further that Council accepts the quote submitted by Finch Auto Group for the 2024 Chevrolet Silverado 1500 4wd Crew Cab at the price of \$49,226.00 + HST + Licensing.

Background:

At the October 2, 2024 meeting of council CAO report CAO-24-38 – Building Services Vehicle was brought forward. Staff then proceed to move forward with an RFP with the intent to purchase a new vehicle for the Build department. In the report it was discussed that a pickup truck would suit the needs of not only the building department but later on in its life cycle it can then be transferred and utilized in other departments.

Analysis/Discussion:

Staff sent the RFP to 7 known dealerships that the Township has had dealings with or has received quotes from in the past. The Township received 3 quotes back. All quotes received met the specifications in the RFP. Staff is recommending the lowest quote from Finch Auto Group for a 2024 Chevrolet Silverado 1500. This vehicle is in current inventory and upon approval to purchase can be at the Township in 4-6 days. If the Township was to go through the ordering process it will take 6 – 8 months before the vehicle would be available.

Financial Considerations:

Purchased from the Building Services reserve

2024 Chevrolet Silverado 1500 4wd Crew Cab at the price of \$49,226.00 + HST + Licensing.

Attachments: None

Respectfully submitted by:

Jim Borton C.R.S.S.
Director of Public Works



TOWNSHIP OF BLANDFORD-BLENHEIM

To: Members of Council
Josh Brick, CAO

Reviewed By: Adam Degier, Drainage Superintendent

Subject: Court of Revision - Mitchell Municipal Drain, County of Brant

Report #: DC-24-10

From: Sarah Matheson, Clerk

Date: October 9, 2024

Council Meeting Date: October 16, 2024

Recommendation:

That Report DC-24-10 be received as information; and,

That Council appoint _____ to attend the Court of Revision hosted by the County of Brant under the *Drainage Act*, for the purpose of hearing appeals related to the Mitchell Municipal Drain.

Background:

The County of Brant received a petition for drainage works on the Mitchell Drain. Pursuant to Section 8 of the *Drainage Act*, Headway Engineering was appointed by resolution to prepare a report on the petition received. On September 26, 2022, per Section 78 of the *Drainage Act*, the Council of the County of Brant authorized by resolution a report to be completed.

The project is located in the north-west corner of the County of Brant, former Township of South Dumfries, and is bound by the Township of North Dumfries to the north, and the Township of Blandford-Blenheim to the west. The intersection nearest to the outlet of the Main Drain (Open) is Drumbo Road and Brant-Oxford Road, approximately 225m north of where the drain crosses Brant-Oxford Road.

The project services parts of Lots 33 to 38, Concessions 5 and 6, in the County of Brant, parts of Lots 1 and 2, Concessions 7 and 8 in the Township of Blandford-Blenheim, and parts of Lots 33 to 38, Concession 7, in the Township of North Dumfries, including a portion of the Village of Ayr.

The Mitchell Drain was originally constructed under the authority of a report prepared by W. H. Fairchild, dated July 10, 1911. A report prepared by Roger M. Lee, dated November 15, 1923, was followed by various reports in 1949, 1968, 1979, and 2016 addressing issues that arose over the years.

The primary objective of the works is to replace existing farm crossing culverts and add new crossings in some locations, as well as upgrade the existing tile drainage system. Additionally, the objectives also involve improving the existing open ditches.

Various on-site and information meetings occurred that included affected property owners, representatives from Headway Engineering, and staff from each municipality. An engineering report, dated August 16, 2024, was circulated to Township staff. This report was mailed to Township of Blandford-Blenheim property owners that are affected by the Mitchell Municipal Drain.

A public meeting presenting the Consideration for the Engineer's Drainage Report for the Mitchell Municipal Drain, 2024 was held on Tuesday September 24, 2024, at 4:00 pm at the County of Brant at 7 Broadway Street West, Paris, ON to address any questions or comments with respect to the report and the proposed drainage works.

Any inconsistencies as to the acreage assessed, value of benefit, or value of outlet liability, are to be dealt with at a Court of Revision, scheduled for Tuesday, October 22, 2024 at 4:00 pm in Brant County Council Chambers. Any Blandford-Blenheim assessed owners in the land drainage area have been informed by prepaid mail within the statutory time allotted by the *Drainage Act*.

Analysis/Discussion:

The *Drainage Act* requires that where the lands assessed for drainage works extend into a neighbouring municipality, the Court of Revision shall consist of two (2) members appointed by the initiating municipality and one (1) member appointed by each of the neighbouring municipalities. The Township of Blandford-Blenheim must select and appoint a member to sit at this Court of Revision.

A Court of Revision is an appeal body established under the Drainage Act and administered by a local municipality. It allows property owners to challenge drainage assessments quickly and informally. Since the Mitchell Municipal Drain affects two or more municipalities, the Council of the County of Brant will appoint members and the Township of Blandford-Blenheim Council will appoint one member to sit on the Court of Revision.

The County of Brant has considered a staff report and by-law to which the property owners had the opportunity to speak and inform Council's decision on the matter. The Council of the County of Brant decided to proceed with the project and gave two readings the provisional by-law and a notice of the date and time of the Court of Revision. The Court of Revision, scheduled for October 22, 2024, must be held before the third and final reading of the provisional by-law.

Financial Considerations:

None.

Attachments:

- Mitchell Municipal Drain Report authored by Headway Engineering;
- Letter from Brant County Clerk requesting Township of Blandford-Blenheim Member Appointment; and,

-
- County of Brant By-law No. 100-24, being a By-law to provide for drainage works in the County of Brant (Mitchell Municipal Drain).

Respectfully submitted by:

Sarah Matheson,
Clerk



Mitchell Municipal Drain

August 16, 2024

Prepared for:



Headway Engineering
23-500 Fairway Road South
Suite 308
Kitchener, Ontario N2C 1X3
226 243 6614
www.headwayeng.ca

Kitchener, Ontario

August 16, 2024

To the Mayor and Members of Council:

**Re: Mitchell Municipal Drain
County of Brant
Our Reference No. BRNT-002**

Headway Engineering is pleased to provide its report for the **Mitchell Municipal Drain** in the County of Brant.

The preparation of this report was authorized by a resolution of the Council of the County of Brant on September 26, 2022, per Section 78 of the Drainage Act.

The primary objective of this report is to replace existing farm crossing culverts and add new crossings in some locations, as well as upgrade the existing tile drainage system known as Branch 'A'. Additionally, the objectives also involve improving the existing open ditches (Main Open, Branch 'C,' and 'D').

A summary of the assessments for this project are as follows:

| | |
|------------------------------------|------------------|
| Municipal Lands | \$126,270 |
| Privately Owned Non-Agricultural | \$ 45,316 |
| Privately Owned Agricultural | \$640,414 |
| Total Estimated Assessments | \$812.000 |

Yours truly,

Stephen Brickman, P.Eng.
Project Engineer and Manager

Michel Terzian, B.Eng.
Project Coordinator
HEADWAY ENGINEERING

SB/





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SCHEDULES

SCHEDULE A - ALLOWANCES

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SPECIFICATIONS FOR THE CONSTRUCTION OF MUNICIPAL DRAINAGE WORKS

1.0 INTRODUCTION AND LOCATION

The Council of the County of Brant has appointed Headway Engineering to investigate a request for improvements to the Mitchell Municipal Drain.

The project is located in the north-west corner of the County of Brant, former Township of South Dumfries, and is bound by the Township of North Dumfries to the north, and the Township of Blandford-Blenheim to the west. The intersection nearest to the outlet of the Main Drain (Open) is Drumbo Road and Brant-Oxford Road, approximately 225m north of where the drain crosses Brant-Oxford Road.

The project services parts of Lots 33 to 38, Concessions 5 and 6, in the County of Brant, parts of Lots 1 and 2, Concessions 7 and 8 in the Township of Blandford-Blenheim, and parts of Lots 33 to 38, Concession 7, in the Township of North Dumfries, including a portion of the Village of Ayr.

The Drainage Area comprises of approximately 763 hectares, and land uses within the watershed consist mainly of agricultural lands, with parts being woodlots, roads and built up residential (Ayr).

The attached Plans, Profiles, and Details; Drawing Numbers 1 to 13, and Specifications form part of this report. They show and describe in detail the location and extent of the work to be completed and the lands and roads which are affected.

2.0 AUTHORIZATION

Authority to prepare this report was obtained by a resolution of the County of Brant Council at its September 26, 2022, meeting to appoint Headway Engineering to prepare an Engineer's Report under Section 78 of the Drainage Act.

3.0 DRAINAGE HISTORY

3.1 Mitchell Drain (1911)

The Mitchell Drain was originally constructed under the authority of a report prepared by W. H. Fairchild, dated July 10, 1911. No information or details of the report have been located.

3.2 Mitchell Drain (1923)

The Mitchell Drain report from 1949 referred to a report prepared by Roger M. Lee, dated November 15, 1923, for the original construction of the Vincent-Muma Drain (now referred to as Branch 'A' and 'B'), which consisted of the installation of 2,570 feet of tile from 150mm to 350mm diameter, along with three catch basins. However, a copy of the 1923 report hasn't been located so the specified details contained in the 1949 report cannot be confirmed.

3.3 Mitchell and Vincent Muma Drain (1949)

The Mitchell Drain report prepared by Hugh A. Lumsden, P.Eng., dated July 18, 1949, authorized the cleanout and excavation of the Main Drain (Open), upgrading the Vincent-Muma Drain (now referred to as Branch 'A' and 'B') and the cleanout and excavation of Branch 'B' (now referred to



as Branch 'C'). Branch 'C' (now referred to as Branch 'D') was acknowledged in the report but no work was proposed along the open ditch.

3.4 Mitchell Drain (1968)

The Mitchell Drain report prepared by J. B. Dodd, O.L.S., dated October 1, 1968, authorized the cleanout of the Main Drain (Open), the installation of 1,780 feet of 300mm to 400mm diameter tile along Branch 'A', 326 feet of 400mm diameter tile on Branch 'B', 3,533 feet of open ditch cleanout along Branch 'C' and 3,557 feet of open ditch cleanout along Branch 'D'.

The report also authorized the installation of eight culverts along the Main Drain, three along Branch 'C' and three along Branch 'D'.

3.5 Mitchell Drain (1979)

The Mitchell Drain report prepared by K. Smart Associates Ltd., dated September 26, 1979, authorized the enclosure of approximately 403 metres of the Main Drain (Open) in the Township of North Dumfries, and deepened 200 metres of the Main Drain (Open) in the County of Brant to provide an adequate outlet for the newly enclosed portion. The Main Drain (Closed) consisted of 400mm to 450mm diameter tile.

3.6 Mitchell Drain (2016)

The Mitchell Drain report prepared by K. Smart Associates Ltd., dated December 9, 2016, authorized the enclosure of approximately 195 metres of the Main Drain (Open) in the County of Brant, and upgraded the Main Drain (Closed) from the works authorized in 1979. In total, approximately 547 metres of new tile was installed along the Main Drain (Closed), consisting of 450mm to 900mm diameter HDPE, concrete and smooth wall steel casing. The purpose of the enclosure and upgrade to the existing system was to provide the proposed development in the Village of Ayr, Township of North Dumfries, with a sufficient outlet for their proposed development.

Also, the 2016 report authorized the construction of a new branch drain known as Branch 'E', which consisted of approximately 201 metres of open ditch and 63 metres of 600mm diameter HDPE pipe, in the Township of North Dumfries.

4.0 PUBLIC MEETINGS AND ENGAGEMENTS

4.1 On-Site Meeting

In accordance with Section 9(1) of the Drainage Act, an on-site meeting was held on December 13, 2022. The location of the meeting was at the Brant Sports Complex in Paris, Ontario. Persons in attendance were:

| | |
|--------------------------|---|
| Stephen Brickman, P.Eng. | Headway Engineering |
| Michel Terzian | Headway Engineering |
| Shannon Tweedle | Drainage Superintendent, County of Brant |
| Adam Degier | Drainage Superintendent, Township of Blandford-Blenheim |
| James Harmer | Drainage Superintendent, Township of Blandford-Blenheim |
| Alex MacVicar | R.J. Burnside and Associates Ltd. |

Landowners Include:

George Kyle

Peter Kyle

Valerie Pynenburg



James McRae
William Perry

Don Davidson

Barbara Meikle

4.2 Public Information Meeting

A Public Information Meeting was held on May 1, 2024. The location of the meeting was at the Brant Sports Complex in Paris, Ontario. Persons in attendance were:

| | |
|--------------------------|---|
| Stephen Brickman, P.Eng. | Headway Engineering |
| Michel Terzian | Headway Engineering |
| Shannon Tweedle | Drainage Superintendent, County of Brant |
| Jason DeMunck | Road Operations Manager, County of Brant |
| Adam Degier | Drainage Superintendent, Township of Blandford-Blenheim |

Landowners Include:

| | | |
|--------------|--------------------|----------------|
| George Kyle | Peter Kyle | Barbara Meikle |
| David Cleave | Don Davidson | Barbie Perry |
| Ron Cochrane | Christine Cochrane | |

The meeting provided a review of the proposed design, estimated costs, and the proposed assessments, among other information. All meeting materials were posted online following the meeting, and all parties invited to attend the meeting were provided with access instructions to the meeting materials.

5.0 FINDINGS

Based on the information collected during field investigations, surveys, public engagements, and review of documentation, the following summarizes Headway Engineering's findings:

5.1 Watershed Condition (Hydrology):

- The watershed was established through the analysis of tile drainage maps, previous engineers' reports for the Mitchell Drain and surrounding drainage systems, field investigations, surveys and data analysis of the LiDAR derived digital data from Land Information Ontario. The drainage area comprises of approximately 763 hectares.
- Land uses within the watershed are as follows:
 - Agricultural: approximately 642.86 Ha. (84.2%)
 - Woodlot: approximately 65.23 Ha. (8.5%)
 - Roads: approximately 32.01 Ha. (4.2%)
 - Residential, including Ayr Block: approximately 23.3 Ha (3.1%)
- The Ontario Ministry of Agriculture, Food and Rural Affairs' Agricultural Information Atlas describes the soil types within the watershed and along the routes of the drains as follows:
 - Silt and Silty-Loam (approximately 78%)
 - Organic (approximately 1%)
 - Loam (approximately 21%)



5.2 Existing Drainage System:

- The existing municipal drainage systems consist of both open and closed portions.
 - **Main Drain (Open)** is an open ditch system that commences at an outlet into a natural watercourse on the east side of Brant-Oxford Road, in Lot 38, Concession 5, in the County of Brant, and proceeds upstream approximately 3,042 metres to the head of the drain in the north part of Lot 36, Concession 6, in the County of Brant.
 - **Main Drain (Closed)** is a tile drain commencing at an outlet into the upstream end of the Main Drain (Open) in the north part of Lot 36, Concession 6, in the County of Brant, and proceeds upstream approximately 547 metres into the Township of North Dumfries, to the head of the drain at the south road limit of Brant-Waterloo Road, adjacent to the north part of Lot 34, Concession 6, in the County of Brant
 - **Branch 'A'** is a tile drain system commencing at an outlet into the Main Drain (Open) in the south half of Lot 37, Concession 6, and proceeds upstream in a north-westerly direction approximately 584 metres to the lot line between the north and south halves of Lot 38, Concession 6, in the County of Brant.
 - **Branch 'B'** is a tile drain system commencing at an outlet in Branch 'A' in the south half of Lot 37, Concession 6, and proceeds upstream approximately 100 metres to the lot line between the J. McRae property (Roll No. 10-005) and the R. & G Kyle property (Roll No. 10-006), in the County of Brant.
 - **Branch 'C'** is an open ditch system commencing at an outlet into the Main Drain (Open) at the south-east corner of the J., R., & P. Kyle, & S. Bretz property (Roll No. 10-003), in the north part of Lot 37, Concession 6, and proceeding northerly along the west side of Ayr Road before turning north-west to the head of the drain at the south road limit of Brant-Waterloo Road, adjacent to the north part of the north half of Lot 37, Concession 6, in the County of Brant, for a total approximate length of 1,023 metres.
 - **Branch 'D'** is an open ditch system commencing at an outlet into the Main Drain (Open) at the east side of Ayr Road, where the Main Drain bends north, in the north part of Lot 36, Concession 6. Branch 'D' proceeds upstream to the head of the open drain, approximately 1,173 metres, to the west road limit of Ayr Road, adjacent to the Corus Television G P Inc. property (Roll No. 10-008-10), in the south half of Lot 35, Concession 6.
- The 1949 Mitchell Drain report discusses how Branch 'D' (referred to as Branch 'C' in the 1949 report) crosses to the east side of Ayr Road with a 600mm diameter corrugated pipe where the drain terminated. The plan and associated profile also show a pipe crossing the road, however subsequent Mitchell Drain reports indicate Branch 'D' does not cross Ayr Road and terminates at the west road limit. Field investigations and discussions with existing landowners indicate the drain does not cross the road and the 600mm diameter pipe referred to in the 1949 report, was not found.
- The original drainage system is over 100 years old, including the closed drains; Branch 'A' and Branch 'B'.



- The Main Drain (Open) was cleaned out upstream of Nith Road in 2016, and between Drumbo Road to where Branch 'A' enters Main Drain (Open) in 2023 under maintenance.
- Prior to the cleanout of the Main Drain (Open) in 2023, the outlet for Branch 'A' was approximately 2 feet below the streambed.
- It is unknown when, or if, the remaining portions of the drainage systems were last cleaned out or maintained.
- There is significant erosion of the Main Drain (Open) through parts of the P. Kyle property (Roll No. 10-187).
- Branch 'A' and Branch 'B' are not of sufficient capacity, nor depth to drain the surrounding and upstream lands within their respective watersheds at today's standards of drainage.
- Most of the existing culverts, including the culvert crossing Nith Road, are in poor states of repair or configuration, and are of insufficient size and depth to convey runoff from upstream lands at today's standards of drainage.

5.3 Outlet:

- The outlet for the Mitchell Municipal Drain is into a natural watercourse on the west side of Brant Oxford Road, in the Township of Blandford Blenheim.
- The natural watercourse is of adequate depth and capacity to provide sufficient outlet for the Mitchell Municipal Drain. Likewise, no construction works are proposed in natural watercourse.

5.4 Other Noted Observations:

- The depth of the Main Drain (Open) through most of the P. Kyle property (Roll No. 10-187), as well as the topography of the adjacent floodplain, cannot accommodate a conventional single pipe culvert crossing designed to today's standards of drainage.
- There is an existing pond at the upstream end of Branch 'D' that is in line with the ditch but is not part of the municipal drainage system.
- The upper 325 metres of Branch 'D' has significant grade of approximately 4%, is very shallow and doesn't have a consistently defined cross section along most of this segment. This section of drain passes through a woodlot, part of which is designated as a wetland. There are no field tile outlets within this section of ditch that were observed.

5.5 Environmental Findings:

- Wetlands designated as "Unevaluated Wetlands", are present within portions of the watershed, according to the Ministry of Natural Resources public information.
- All open portions of the Mitchell Municipal Drain are "Not Rated" according to the Department of Fisheries and Oceans drain classification system, as shown on the Ontario Ministry of Agriculture, Food and Rural Affairs' Agricultural Information Atlas.



6.0 DESIGN CONSIDERATIONS

6.1 Open Ditch Work:

The open ditch works have been designed to provide adequate depth for sufficient outlets of existing private tile drains, the proposed improvements to Branch 'A' and improved tile drainage for workable areas adjacent to, and upstream of the municipal drains.

Proposed open ditch works were minimized in areas where natural features such as the presence of cobbles, were observed.

Provisions have been made in the proposed works to allow for the repair of areas of ditch that have experienced bank failure, erosion or slumping.

6.2 Branch 'A':

The tile drainage systems were sized using the Drainage Coefficient method included in the OMAFRA Publication 29 – 'Drainage Guide for Ontario'. The Drainage Coefficient describes a depth of water to be conveyed by the drainage works per a 24-hour period and is expressed in millimeters per 24 hours. The drainage coefficient design standard used for the works proposed in this report is 38mm per 24-hour period.

6.3 Culverts:

Farm culverts have been designed using a minimum event standard of a 5-year rainfall event, while the road culvert through Nith Road was designed using a minimum event standard of a 10-year rainfall event.

6.4 Wetlands

The drainage system is designed to function collaboratively with the natural drainage features of the nearby wetlands. The proposed drainage system is not designed at a depth, or capacity to drain any wetlands adjacent to the drain or within the watershed.

7.0 ENVIRONMENTAL CONSIDERATIONS

7.1 Department of Fisheries and Oceans (DFO)

The DFO has reviewed the Request for Review package sent to them on June 23, 2023, and also considered in their review information presented during discussions and meetings that were held between Headway Engineering staff, DFO personnel and the Drainage Superintendent for the County of Brant.

As a result, the DFO provided comments dated January 26, 2024, in the form of a Letter of Advice, supporting the proposed open ditch works, with mitigative measures such as no in-water works between March 15 and July 15, preserving or avoiding gravel substrates if possible, and the inclusion of a rock flow check dam at the downstream end of the proposed open ditch works, among other considerations.



7.2 Grand River Conservation Authority (GRCA)

The GRCA was invited to all public engagement meetings and has been contacted directly on several occasions. The GRCA provided comment through email on June 6, 2024, about the information presented at the Information Meeting held on May 1, 2024. The GRCA provided recommendations related to hydrologic and hydraulic assessments, temporary works and erosion and sediment control, and other recommendations. These recommendations have been considered and incorporated where appropriate. The correspondence concluded with:

“...works proposed under The Drainage Act will not require a permit under Ontario Regulation 41/24 from the GRCA.”

7.3 Ministry of Natural Resources and Forestry (MNRF) and Ministry of the Environment, Conservation and Parks (MECP)

Headway Engineering completed a review of the Natural Heritage Information Centre mapping for Species at Risk in Ontario. The NHIC mapping indicates that there is a possibility of Bobolink (bird species) within approximately one kilometer of the working area. Bobolink were not observed in the working area, and it is unlikely to be present as its preferred habitat consists of open grasslands.

8.0 RECOMMENDATIONS

Headway Engineering recommends the following:

1. Main Drain (Open)
 - Approximately 3,042 metres be cleaned out and/or deepened to provide sufficient outlets for existing private farm tiling systems within the watershed, as well as for the proposed deeper outlet of Branch ‘A’.
 - Various repairs of portions of the ditch that have eroded.
 - The replacement of four farm culvert crossings, including the installation of one low level culvert crossing.
 - The installation of one new farm culvert crossing.
 - The replacement of one road culvert crossing through Nith Road.
2. Main Drain (Closed)
 - No work recommended.
3. Branch ‘A’
 - An improved municipal tile drainage system be installed from the existing outlet into the Main Drain (Open) upstream to the lot line between the north and south halves of Lot 38, Concession 6, in the County of Brant.
 - The improved tile drainage system includes the installation of approximately 584 metres of 300mm to 750mm diameter concrete field tile.
 - The proposed drainage system includes the installation of one inline catch basin, one inline ditch inlet catch basin, and one ditch inlet offset catch basin.



4. Branch 'B'
 - Be abandoned per Section 19 of the Drainage Act.
5. Branch 'C'
 - Approximately 1,023 metres be cleaned out and/or deepened to provide sufficient outlet for existing private farm tiling systems within the watershed.
 - The replacement of two farm culvert crossings.
6. Branch 'D'
 - Approximately 850 metres be cleaned out and/or deepened to provide sufficient outlet for existing private farm tiling systems within the watershed.
 - The replacement of two farm culvert crossings.
 - The removal and offsite disposal of one farm culvert crossing.
 - A new design grade for future maintenance purposes be set along the upper 323 metres of the drain.
7. New maintenance schedules be provided for the Main Drain (Open), Branch 'A', Branch 'C' and Branch 'D'.
8. New maintenance schedules be provided for the new culverts along the Main Drain (Open), Branch 'C' and Branch 'D'.
9. Assessments to the lands and roads in the Village of Ayr be assessed as a block assessment under Section 25(1) of the Drainage Act, per the direction of the Township of North Dumfries Council, dated June 17, 2024.
10. Watersheds of the surrounding municipal drainage systems be updated when those drainage works require improvement in the future.
11. The improved drainage system be known as the **Mitchell Municipal Drain**.

9.0 SUMMARY OF PROPOSED WORKS

The proposed work consists of:

1. The cleanout and/or deepening of approximately 3,042 metres of open ditch on the Main Drain (Open).
2. The cleanout and/or deepening of approximately 1,023 metres of open ditch on Branch 'C'.
3. The cleanout and/or deepening of approximately 850 metres of open ditch on Branch 'D'.
4. The installation of approximately 584 metres of 300mm to 750mm diameter concrete field tile and HDPE pipe, one concrete inline catch basin, one concrete inline ditch inlet catch basin, and one concrete offset ditch inlet catch basin on Branch 'A'.
5. The installation of five farm culvert crossings, including one low level crossing, and one road culvert through Nith Road, on Main Drain (Open).
6. The installation of two farm culvert crossings on Branch 'C'.
7. The installation of two farm culvert crossings on Branch 'D'.



10.0 WORKING AREA AND ACCESS

Access to the working area shall be as shown on the attached set of plans or by the Landowners where an access route is not defined.

The working area shall be in accordance with the following average widths. The working width may be used for construction purposes including spreading or transporting excavated soil and supplying construction materials to the site.

| Drain Segment and Station Range | Property Roll No. | Working side | Average Working Width for Construction | Average Working Width for Future Maintenance |
|--|-------------------|---------------------------|--|--|
| Main Drain (Open) | | | | |
| 0+000 to 0+136 | 10-187 | North | 12m | 10m |
| 0+136 to 0+161 <i>Low Level Crossing Installation</i> | 10-187 | North & South | Crossing Footprint Plus 10m outward offset | 10m |
| 0+161 to 0+732 | 10-187 | North | 12m | 10m |
| 0+732 to 0+888 | 10-188 | East | 12m | 10m |
| 0+924 to 1+074 | 10-005-01 | East | 12m | 10m |
| 1+074 to 1+776 | 10-005 | As Specified by Landowner | 12m | 10m |
| 1+776 to 1+974 | 10-004 | As Specified by Landowner | 12m | 10m |
| 1+974 to 2+018 | 10-003 | North | 12m | 10m |
| 2+038 to 2+656 | 10-007 | As Specified by Landowner | 12m | 10m |
| 2+656 to 3+042 | 10-008-05 | As Specified by Landowner | 12m | 10m |
| Branch 'A' | | | | |
| 0+000 to 0+584 | 10-005 and 10-006 | Centred | 25m | 10m |
| Branch 'C' | | | | |
| 0+000 to 0+275 | 10-003 | West | 12m | 10m |
| 0+275 to 1+023 | 10-002 | South-West | 12m | 10m |



| Branch 'D' | | | | |
|----------------|-----------|-------|-----|-----|
| 0+000 to 0+217 | 10-007 | North | 12m | 10m |
| 0+217 to 0+384 | 10-007 | South | 12m | 10m |
| 0+384 to 0+850 | 10-008-05 | South | 12m | 10m |

11.0 SCHEDULES

Four schedules are attached and form part of this report.

11.1 Schedule A – Schedule of Allowances

In accordance with Sections 29, 30 and 33 of the Drainage Act, allowances are provided to affected Landowners for Right-of-Way, Damages to Lands and Crops and Loss of Access. Schedule A contains a table of the applicable allowances to Landowners.

11.2 Schedule B – Schedule of Estimated Construction Costs

An itemized cost estimate of the proposed construction work is included in detail in Schedule B.

11.3 Schedule C – Schedule of Assessment for Construction

Schedule C provides details of the distribution of the total estimated costs of the construction of the municipal drain.

11.4 Schedule D – Schedule of Assessment for Maintenance

Schedule D provides details of the distribution of future maintenance costs for the municipal drain. Maintenance assessments are expressed as a percentage of the total maintenance. Lands located upstream of the maintenance shall be determined by the Drainage Superintendent and assessed according to this schedule.

12.0 ALLOWANCES

In accordance with Sections 29, 30 and 33 of the Drainage Act, Allowances payable to Landowners are calculated using the following methodology.

12.1 Allowances for Right-of-Way (Section 29)

The Right-of-Way allowance compensates the lands for the right to enter onto the land at various times for the purpose of inspecting the drainage system and conducting maintenance activities.

The land value used for the Right-of-Way calculation is adjusted for closed drainage systems (Branch 'A') to account for the continued use of the land after the construction.

The values used for calculating allowances for Right-of-Way are as follows:



| Land Use | Land Value | Adjustment Factor for Drainage Act Right-of-Way | Adjusted Land Value for Drainage Act Right-of-Way Allowance |
|---|-------------|---|---|
| Agricultural Working Side of Ditch and Tile Drain | \$60,000/Ha | 25% | \$15,000/Ha |
| Woodlot | \$15,000/Ha | 25% | \$3,750/Ha |

12.2 Allowances for Damages to Lands and Crops (Section 30)

Allowances for Damages to Lands and Crops under Section 30 of the Drainage Act, were primarily calculated to compensate landowners for crop losses, bush losses and land damages due to the construction and operation of the drain, including access to the working area.

Area values used for calculating allowances for Damages are as follows:

| Land Use | Damage Value |
|--------------|--------------|
| Agricultural | \$6,000/Ha |
| Woodlot | \$2,000/Ha. |

12.1 Allowances for Loss of Access (Section 33)

Allowances for Loss of Access under Section 33 of the Drainage Act were provided to the J., R., & P. Kyle property (Roll No. 10-003), Part of Lot 37, Concession 6, County of Brant, for loss of access to 0.027 hectares of woodlot after the removal of the existing farm culvert at Sta. 2+005 (Main Drain (Open)).

Area values used for calculating allowances for Loss of Access are as follows:

| Land Use | Land Value | Severed Area |
|----------|--------------|--------------|
| Woodlot | \$15,000/Ha. | 0.027 Ha |

Allowances payable to Landowners entitled thereto are as shown in Schedule A.

Total Allowances, under Sections 29, 30 and 33 of the Drainage Act;

Mitchell Municipal Drain:

\$ 122,695



13.0 ESTIMATED CONSTRUCTION COSTS

Headway Engineering has made an estimate of the cost of the proposed construction work. A detailed description of the estimated construction costs can be found in Schedule B of this report.

| | |
|---|-------------------|
| A) Main Drain (Open) | \$ 288,525 |
| B) Branch 'A' | \$ 76,200 |
| C) Branch 'C' | \$ 60,875 |
| D) Branch 'D' | \$ 61,650 |
| E) Provisional Items | \$ 47,875 |
| Total Estimated Construction Costs | \$ 535,125 |

14.0 SUMMARY OF ESTIMATED PROJECT COSTS

The total estimated project costs are as follows:

| | |
|--|------------------|
| Allowances under Sections 29, 30 and 33 of the Drainage Act (Refer to Schedule A) | \$ 122,695 |
| Total Estimated Construction Costs (Refer to Schedule B) | \$ 535,125 |
| Meetings, survey, design, preparation of preliminary cost estimates, preparation of final drainage report, consideration of report | \$ 79,500 |
| Consultation with Environmental Agencies and Permitting Fees | \$ 3,500 |
| Preparation of contract documents, contract administration, supervision, and inspection of construction | \$ 30,500 |
| Contingencies, Interest and net H.S.T. | \$ 40,680 |
| TOTAL ESTIMATED PROJECT COSTS – MITCHELL MUNICIPAL DRAIN | \$812,000 |

The estimated cost of the work in the County of Brant is \$ 812,000.

The above costs are estimates only. The final costs of construction, engineering and administration cannot be determined until construction is completed.

The above cost estimate does not include costs associated with defending the drainage report should appeals be filed with the Court of Revision, Drainage Tribunal and/or Drainage Referee. Should additional costs be incurred, unless otherwise directed, the additional costs would be distributed in a pro-rata fashion over the assessments contained in Schedule C and as may be varied under the Drainage Act.

15.0 ASSESSMENT

Headway Engineering assesses the cost of this work against the Lands and Roads as shown in Schedule C - Assessment for Construction.



Assessments were determined using the principles included in the ‘Drainage Assessment Revisited’ paper prepared by E.P. Dries and H.H. Todgham. These principles of assessment are recognized to be fair and equitable for determining cost distributions among those affected.

15.1 Benefit (Section 22)

Benefit assessment is applied to those properties receiving a benefit as defined in Section 1 of the Drainage Act which is extracted below:

Benefit means the advantages to any lands, roads, buildings or other structures from the construction, improvement, repair, or maintenance of a drainage works such as will result in a higher market value or increased crop production or improved appearance or better control of surface or sub-surface water, or any other advantages relating to the betterment of lands, roads, buildings or other structures.

Typically, properties which have direct, or near direct access to the proposed drain receive Benefit as defined above.

15.2 Outlet Liability (Section 23)

Outlet Liability is distributed to all properties within the watershed area on an adjusted area basis. The areas are adjusted to accurately reflect equivalent run-off rates relative to other lands and roads within the watershed. Due to development, roads have been assessed higher Outlet Liability rates relative to agricultural lands.

15.3 Special Benefit (Section 24)

The Special Benefit instrument of assessment was used to separate the benefit portion of the new farm culvert crossings from the remaining costs of the new crossing.

15.4 Special Assessment (Section 26)

Special Assessments apply to public utilities and roads which directly cause increased costs to the construction of a drainage works due to the existence and operation of the public utility or road.

Construction costs which are required solely because of the existence of Drumbo Road and Nith Road are fully assessed to the road authority having jurisdiction over the road. The Special Assessment is calculated based on the actual costs of the proposed work, plus an allowance for administration, interest and Net HST as described below.

| Road Name | Construction Costs | Plus, Administration Costs | Less Equivalent Drain Costs (Fixed) | Plus, Interest, and Net HST | Special Assessment |
|-------------|--------------------|----------------------------|-------------------------------------|-----------------------------|--------------------|
| Drumbo Road | \$4,400 | \$810 | \$400 | \$90 | \$4,900 |
| Nith Road | \$37,600 | \$9,180 | \$390 | \$820 | \$47,210 |



Whether or not the County of Brant elects to do the work through Drumbo Road (Main Drain (Open) Sta. 0+888 to Sta. 0+924) or Nith Road (Main Drain (Open) Sta. 2+018 to Sta. 2+038), they shall be assessed the actual increased costs to the drainage works due to the construction and operation of the above noted sections of the Main Drain (Open) as a Special Assessment in addition to any benefit and outlet liability assessments.

16.0 GRANT ELIGIBILITY

The Province provides grants towards assessment to eligible properties for drainage improvements which meet the specific criteria. The provision of these grants for activities under the Drainage Act is called the *Agricultural Drainage Infrastructure Program (ADIP)*.

A grant may be available for assessments to privately owned parcels of land which are used for agricultural purposes and eligible for the Farm Property Class Tax rate. Section 88 of the Drainage Act directs the County to make application for this grant upon certification of completion. The County will then deduct the grant from the assessments.

17.0 ABANDONMENT OF EXISTING MUNICIPAL DRAINS

In accordance with Section 19 of the Drainage Act, Branch 'B', shall be abandoned and cease to be a municipal drain after the Mitchell Municipal Drain is constructed.

18.0 MAINTENANCE

After completion, this drain shall be maintained by the County of Brant at the expense of all the lands and roads assessed in the attached Schedule D - Assessment for Maintenance, and in the same relative proportions until such time as the assessment is changed under the Drainage Act, except for those portions of the drainage works on municipal right-of-ways. These portions of the drain shall be maintained at the expense of the road authority having jurisdiction over said road.



Schedule A

Schedule of Allowances

Schedule of Allowances Mitchell Municipal Drain

| Main Drain (Open) | Property Details | | | | Drainage Act Allowances | | | |
|-------------------|--------------------------|------------|--|-----------|---------------------------|----------------------|---------------------|------------------|
| | Part Lot | Concession | Landowner | Roll | Right of Way (Sec. 29) | Damages (Sec. 30) | Loss of | Total Allowances |
| | | | | Number | | | Access (Sec. 33) | |
| | 37 | 6 | John, Robert & Peter Kyle, & Sheila Bretz | 10-003 | \$ 660.00 | \$ 320.00 | \$ 405.00 | \$ 1,385.00 |
| | 37 | 6 | Kathryn Roxburgh | 10-004 | \$ 740.00 | \$ 710.00 | \$ - | \$ 1,450.00 |
| | 37 | 6 | James McRae | 10-005 | \$ 7,580.00 | \$ 4,580.00 | \$ - | \$ 12,160.00 |
| | 37 | 6 | Yvan & Sarah Rodrigues | 10-005-01 | \$ 2,250.00 | \$ 2,160.00 | \$ - | \$ 4,410.00 |
| | 36 | 6 | John Jasco Estate | 10-007 | \$ 9,270.00 | \$ 4,450.00 | \$ - | \$ 13,720.00 |
| | 35 & 36 | 6 | Valerie Pynenburg | 10-008-05 | \$ 5,790.00 | \$ 3,380.00 | \$ - | \$ 9,170.00 |
| | 38 | 5 | Peter Kyle | 10-187 | \$ 10,980.00 | \$ 6,050.00 | \$ - | \$ 17,030.00 |
| | 37 | 5 | Marlene Perry & Linda Davidson | 10-188 | \$ 2,340.00 | \$ 1,120.00 | \$ - | \$ 3,460.00 |
| | Total Allowances | | | | | | | |
| | Main Drain (Open) | | | | \$ 39,610.00 | \$ 22,770.00 | \$ 405.00 | \$ 62,785.00 |

| Branch 'A' | Property Details | | | | Drainage Act Allowances | | | |
|------------|-------------------------|------------|--------------------------|--------|---------------------------|----------------------|---------------------|------------------|
| | Part Lot | Concession | Landowner | Roll | Right of Way (Sec. 29) | Damages (Sec. 30) | Loss of | Total Allowances |
| | | | | Number | | | Access (Sec. 33) | |
| | 38 | 6 | Ashlawn Land Corporation | 10-001 | \$ - | \$ 500.00 | \$ - | \$ 500.00 |
| | 37 | 6 | James McRae | 10-005 | \$ 2,780.00 | \$ 2,780.00 | \$ - | \$ 5,560.00 |
| | 38 | 6 | Robert & Gladys Kyle | 10-006 | \$ 6,920.00 | \$ 6,920.00 | \$ - | \$ 13,840.00 |
| | Total Allowances | | | | | | | |
| | Branch 'A' | | | | \$ 9,700.00 | \$ 10,200.00 | \$ - | \$ 19,900.00 |

| Branch 'C' | Property Details | | | | Drainage Act Allowances | | | |
|------------------------------------|------------------|---|-------------|-------------|-------------------------|--------------------|--------------------------|---------------------|
| | Part Lot | Concession | Landowner | Roll Number | Right of Way (Sec. 29) | Damages (Sec. 30) | Loss of Access (Sec. 33) | Total Allowances |
| | 37 | 6 | Robert Kyle | 10-002 | \$ 11,390.00 | \$ 5,460.00 | \$ - | \$ 16,850.00 |
| 37 | 6 | John, Robert & Peter Kyle, & Sheila Bretz | 10-003 | \$ 3,960.00 | \$ 1,900.00 | \$ - | \$ 5,860.00 | |
| Total Allowances Branch 'C' | | | | | \$ 15,350.00 | \$ 7,360.00 | \$ - | \$ 22,710.00 |

| Branch 'D' | Property Details | | | | Drainage Act Allowances | | | |
|------------------------------------|------------------|-------------------|-------------------|-------------|-------------------------|--------------------|--------------------------|---------------------|
| | Part Lot | Concession | Landowner | Roll Number | Right of Way (Sec. 29) | Damages (Sec. 30) | Loss of Access (Sec. 33) | Total Allowances |
| | 36 | 6 | John Jasco Estate | 10-007 | \$ 5,750.00 | \$ 2,760.00 | \$ - | \$ 8,510.00 |
| 35 & 36 | 6 | Valerie Pynenburg | 10-008-05 | \$ 6,690.00 | \$ 2,100.00 | \$ - | \$ 8,790.00 | |
| Total Allowances Branch 'D' | | | | | \$ 12,440.00 | \$ 4,860.00 | \$ - | \$ 17,300.00 |

| Drainage Act Allowances | | | | |
|-------------------------|------------------------|---------------------|--------------------------|----------------------|
| | Right of Way (Sec. 29) | Damages (Sec. 30) | Loss of Access (Sec. 33) | Total Allowances |
| Total Allowances | \$ 77,100.00 | \$ 45,190.00 | \$ 405.00 | \$ 122,695.00 |



Schedule B

Schedule of Estimated Construction Costs

Schedule of Estimated Construction Costs

We have made an estimate of the cost of the proposed work which is outlined in detail as follows:

Part A - Main Drain (Open)

| Description | Estimated Quantity | \$/Unit | Total |
|---|-----------------------|-------------|--------------|
| 1) Clearing, brushing and mulching | l.s. | | \$ 30,000.00 |
| 2) Open ditch excavation (Sta. 0+010 to Sta. 2+679, Sta. 2+928 to Sta. 3+042) | 2,783 m | \$ 15.00 | \$ 41,745.00 |
| 3) Levelling of excavated material | 2,783 m | \$ 8.00 | \$ 22,264.00 |
| 4) Hand seeding of disturbed side slopes | 2,783 m | \$ 2.00 | \$ 5,566.00 |
| 5) Supply 2 - 10m lengths of 910mm x 660mm corrugated metal pipe arch culverts for low level crossing, 2.80mm thickness, aluminized type II coating | 20 m | \$ 450.00 | \$ 9,000.00 |
| Installation of 2 - 10m lengths of 910mm x 660mm corrugated metal pipe arch culverts, including granular base and backfill, and 150mm thick reinforced concrete slab over pipes and approaches, and removal and offsite disposal of existing 1800mm diameter culvert (approx. 30m ² of concrete, Sta. 0+148) | l.s. | | \$ 45,000.00 |
| 6) Supply 1800mm diameter CSP with 125mm x 25mm corrugations, 2.8mm thickness, type II aluminized coating | 12 m | \$ 1,000.00 | \$ 12,000.00 |
| Installation of 1800mm diameter CSP pipe complete with quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of existing 1400mm diameter culvert (Sta. 0+970) | l.s. | | \$ 11,000.00 |
| 7) Supply 1800mm diameter CSP with 125mm x 25mm corrugations, 2.8mm thickness, type II aluminized coating | 12 m | \$ 1,000.00 | \$ 12,000.00 |

| Description | Estimated Quantity | \$/Unit | Total |
|---|-----------------------|-----------|----------------------|
| Installation of 1800mm diameter CSP pipe complete with quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of existing 1400mm diameter culvert (Sta. 1+088) | l.s. | | \$ 11,000.00 |
| 8) Supply 1600mm diameter CSP with 125mm x 25mm corrugations, 2.8mm thickness, type II aluminized coating | 12 m | \$ 900.00 | \$ 10,800.00 |
| Installation of 1600mm diameter CSP pipe complete with quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of existing 1400mm diameter culvert (Sta. 1+889) | l.s. | | \$ 10,000.00 |
| 9) Supply 1200mm diameter CSP with 125mm x 25mm corrugations, 2.8mm thickness, type II aluminized coating | 12 m | \$ 700.00 | \$ 8,400.00 |
| Installation of 1200mm diameter CSP pipe complete with quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of existing 1400mm diameter culvert (Sta. 2+439) | l.s. | | \$ 8,000.00 |
| 10) Removal and off-site disposal of existing 1400mm diameter CSP culvert (Sta. 1+777) | l.s. | | \$ 1,000.00 |
| 11) Removal and off-site disposal of existing 1200mm diameter CSP culvert (Sta. 2+005) | l.s. | | \$ 1,000.00 |
| 12) Construction of a plunge pool at the outlet of Branch 'A' (Sta. 1+350) | l.s. | | \$ 3,000.00 |
| 13) Supply and place quarry stone rip-rap protection and geotextile filter material on streambed and side slopes of the ditch (Sta. 1+350 to Sta. 1+360, approx. 20m ²) | 25 t | \$ 110.00 | \$ 2,750.00 |
| 14) Construction of a rock-check dam (Sta. 0+010) | l.s. | | \$ 2,000.00 |
| Sub-Total - Work on Lands | | | \$ 246,525.00 |

| Description | Estimated Quantity | \$/Unit | Total |
|--|-----------------------|-------------|----------------------------|
| 15) Work on the County of Brant Road Allowance, Nith Road (Sta. 2+018 to Sta. 2+038) | | | |
| a) Supply 2000mm diameter CSP with 125mm x 25mm corrugations, 2.8mm thickness, type II aluminized coating | 18 m | \$ 1,200.00 | \$ 21,600.00 |
| Installation of 2000mm diameter roadway culvert at Sta. 2+028 complete with granular bedding and backfill, road restoration, quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of the existing 1200mm diameter CSP culvert | I.s. | | <u>\$ 16,000.00</u> |
| Sub-Total - Work on Nith Road | | | <u>\$ 37,600.00</u> |

| | | | |
|---|------|-----------|---------------------------|
| 16) Work on the County of Brant Road Allowance, Drumbo Road (Sta. 0+888 to Sta. 0+924) | | | |
| a) Open ditch excavation through existing 3.7m x 2.5m CSPA road culvert, including offsite disposal of excavated material (approx. 10m ³) | 22 m | \$ 200.00 | <u>\$ 4,400.00</u> |
| Sub-Total - Work on Drumbo Road | | | <u>\$ 4,400.00</u> |

| | | | |
|--|--|--|-----------------------------|
| Total Estimated Construction Costs Part A - Main Drain (Open) | | | <u>\$ 288,525.00</u> |
|--|--|--|-----------------------------|

| Part B - Branch 'A' | | | |
|---|-----------|-----------|-------------|
| Description | Estimated | \$/Unit | Total |
| 1) Clearing, brushing and mulching | I.s. | | \$ 1,820.00 |
| 2) Supply 750mm diameter HDPE outlet pipe complete with rodent grate | 6 m | \$ 250.00 | \$ 1,500.00 |
| Installation of outlet pipe complete with quarry stone rip-rap protection around the pipe (Sta. 0+000 to Sta. 0+006, approx. 10m ²) | I.s. | | \$ 5,000.00 |

| Description | Estimated Quantity | \$/Unit | Total |
|--|--------------------|-------------|--------------|
| 3) Supply 750mm diameter concrete field tile | 177 m | \$ 105.00 | \$ 18,585.00 |
| Installation (0+006 to Sta. 0+183) | 177 m | \$ 55.00 | \$ 9,735.00 |
| 4) Supply 300mm diameter concrete field tile | 401 m | \$ 25.00 | \$ 10,025.00 |
| Installation (Sta. 0+183 to Sta. 0+584) | 401 m | \$ 35.00 | \$ 14,035.00 |
| 5) Supply and install 600mm X 600mm concrete catchbasin at Sta. 0+586 (inline type) | 1 ea. | \$ 3,000.00 | \$ 3,000.00 |
| 6) Supply and install 900mm X 1200mm concrete ditch inlet catch basin at Sta. 0+183 (inline type) | 1 ea. | \$ 5,000.00 | \$ 5,000.00 |
| 7) Supply and install 600mm X 600mm concrete catch basin offset 60m south of Sta. 0+183, including connection with 60m of 250mm diameter HDPE pipe (CSA B182.8 - couplers) | I.s. | | \$ 7,500.00 |

Total Estimated Construction Costs

Part B - Branch 'A' **\$ 76,200.00**

Part C - Branch 'C'

| Description | Estimated Quantity | \$/Unit | Total |
|--|--------------------|-----------|--------------|
| 1) Clearing, brushing and mulching | I.s. | | \$ 2,500.00 |
| 2) Open ditch excavation (Sta. 0+000 to Sta. 1+023) | 1023 m | \$ 15.00 | \$ 15,345.00 |
| 3) Levelling of excavated material | 1023 m | \$ 8.00 | \$ 8,184.00 |
| 4) Hand seeding of disturbed side slopes | 1023 m | \$ 2.00 | \$ 2,046.00 |
| 5) Supply 1200mm diameter CSP with 125mm x 25mm corrugations, 2.8mm thickness, type II aluminized coating | 12 m | \$ 700.00 | \$ 8,400.00 |
| Installation of 1200mm diameter CSP pipe complete with quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of existing 900mm diameter culvert (Sta. 0+264) | I.s. | | \$ 8,000.00 |

| <u>Description</u> | <u>Estimated Quantity</u> | <u>\$/Unit</u> | <u>Total</u> |
|--|---------------------------|----------------|--------------------|
| 6) Supply 1200mm diameter CSP with 125mm x 25mm corrugations, 2.8mm thickness, type II aluminized coating | 12 m | \$ 700.00 | \$ 8,400.00 |
| Installation of 1200mm diameter CSP pipe complete with quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of existing 900mm diameter culvert (Sta. 0+422) | I.s. | | \$ <u>8,000.00</u> |

Total Estimated Construction Costs

Part C - Branch 'C'

\$ 60,875.00

Part D - Branch 'D'

| <u>Description</u> | <u>Estimated Quantity</u> | <u>\$/Unit</u> | <u>Total</u> |
|--|---------------------------|----------------|--------------|
| 1) Clearing, brushing and mulching | I.s. | | \$ 10,000.00 |
| 2) Open ditch excavation (Sta. 0+000 to Sta. 0+850) | 850 m | \$ 15.00 | \$ 12,750.00 |
| 3) Levelling of excavated material | 850 m | \$ 8.00 | \$ 6,800.00 |
| 4) Hand seeding of disturbed side slopes | 850 m | \$ 2.00 | \$ 1,700.00 |
| 5) Supply 1200mm diameter CSP with 125mm x 25mm corrugations, 2.8mm thickness, type II aluminized coating | 12 m | \$ 700.00 | \$ 8,400.00 |
| Installation of 1200mm diameter CSP pipe complete with quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of existing 600mm diameter culvert (Sta. 0+217) | I.s. | | \$ 8,000.00 |
| 6) Supply 1000mm diameter CSP with 68mm x 13mm corrugations, 2.0mm thickness, type II aluminized coating | 12 m | \$ 500.00 | \$ 6,000.00 |

| Description | Estimated Quantity | \$/Unit | Total |
|--|-----------------------|---------|-------------|
| Installation of 1000mm diameter CSP pipe complete with quarry stone rip-rap protection and geotextile filter material (25m ²) and including the removal and offsite disposal of existing 600mm diameter culvert (Sta. 0+830) | l.s. | | \$ 7,000.00 |
| 7) Removal and off-site disposal of existing 1200mm diameter CSP culvert (Sta. 2+005) | l.s. | | \$ 1,000.00 |

Total Estimated Construction Costs

Part D - Branch 'D' \$ 61,650.00

Part E - Provisional Items

A Provisional Item is an item that may or may not be required as a part of the Contract. The decision as to whether a Provisional Item will form part of the Contract will be at the discretion of the engineer at time of construction. Payment for Provisional Items will only be made for work authorized in writing (text or email) by the Engineer. Payment for work performed under a Provisional Item shall be based on the Unit Price bid in the Scope of Work below.

- 1) Additional costs associated with installation of tile drain on 19mm diameter crushed clear stone bedding. This includes the supply and placement of all stone, and additional labour and equipment required for installation in accordance with the Typical Pipe Installation on wrapped Stone Bedding Detail.

| Description | Estimated Quantity | \$/Unit | Total |
|---------------------|-----------------------|----------|-------------|
| 300mm diameter pipe | 25 m | \$ 70.00 | \$ 1,750.00 |
| 750mm diameter pipe | 25 m | \$ 75.00 | \$ 1,875.00 |

- 2) Additional costs associated with installation of tile drain on 19mm diameter crushed clear stone bedding. This includes the supply and placement of all stone, and additional labour and equipment required for installation in accordance with the Typical Pipe Installation on Stone Bedding Detail (un-wrapped bedding).

| Description | Estimated Quantity | \$/Unit | Total |
|---------------------|-----------------------|----------|-------------|
| 300mm diameter pipe | 100 m | \$ 60.00 | \$ 6,000.00 |
| 750mm diameter pipe | 50 m | \$ 65.00 | \$ 3,250.00 |

| <u>Description</u> | <u>Estimated Quantity</u> | <u>\$/Unit</u> | <u>Total</u> |
|---|---------------------------|----------------|--------------|
| 3) Wheel machine lift outs due to stony conditions | 2 ea. | \$ 300.00 | \$ 600.00 |
| 4) Fill in eroded areas and place quarry stone rip-rap protection and geotextile filter material on side slopes | 300 t | \$ 110.00 | \$ 33,000.00 |
| 5) Tile connections: | | | |

| <u>Description</u> | <u>Estimated Quantity*</u> | <u>\$/Unit</u> | <u>Total</u> |
|--------------------|----------------------------|----------------|--------------|
| 100mm diameter | 10 ea. | \$ 90.00 | \$ 900.00 |
| 150mm diameter | 5 ea. | \$ 100.00 | \$ 500.00 |

*The Contractor shall be paid for the actual quantity of tile connections at the above fixed unit prices.

Total Estimated Construction Costs

Part E - Provisional Items **\$ 47,875.00**

Summary of Estimated Construction Costs

| | |
|----------------------------|---------------------|
| Part A - Main Drain (Open) | \$ 288,525.00 |
| Part B - Branch 'A' | \$ 76,200.00 |
| Part C - Branch 'C' | \$ 60,875.00 |
| Part D - Branch 'D' | \$ 61,650.00 |
| Part E - Provisional Items | <u>\$ 47,875.00</u> |

Total Estimated Construction Costs **\$ 535,125.00**

| | |
|--------------------------------------|----------------------|
| Total Estimated Materials | \$ 154,235.00 |
| Total Estimated Labour and Equipment | <u>\$ 380,890.00</u> |

Total Estimated Construction Costs

Mitchell Municipal Drain **\$ 535,125.00**



Schedule C

Schedule of Assessment for Construction

**Schedule of Assessment for Construction
Mitchell Municipal Drain**

| Property Details | | | | | Drainage Act Instruments of Assessment | | | | | For Information | | |
|---|------------|---|-------------|----------------------|--|----------------------------|---------------------------|------------------------------|-------------------|-------------------|------------------|-----------------------|
| Part Lot | Concession | Landowner | Roll Number | Approx. Ha. Affected | Benefit (Sec. 22) | Outlet Liability (Sec. 23) | Special Benefit (Sec. 24) | Special Assessment (Sec. 26) | Total Assessment | Less Gov't Grant | Less Allowances | Net Estimated Expense |
| County of Brant | | | | | | | | | | | | |
| 38 | 6 | Ashlawn Land Corporation | 10-001 | 52.61 | \$ - | \$ 10,040 | | | \$ 10,040 | \$ 3,347 | \$ - | \$ 6,693 |
| 37 | 6 | Robert Kyle | 10-002 | 20.23 | \$ - | \$ 4,685 | | | \$ 4,685 | \$ 1,562 | \$ - | \$ 3,123 |
| 37 | 6 | John, Robert & Peter Kyle, & Sheila Bretz | 10-003 | 14.16 | \$ 7,143 | \$ 2,585 | | | \$ 9,728 | \$ 3,243 | \$ 1,385 | \$ 5,100 |
| 37 | 6 | Kathryn Roxburgh | 10-004 | 5.93 | \$ 2,928 | \$ 112 | \$ 12,900 | | \$ 15,940 | \$ 5,313 | \$ 1,450 | \$ 9,177 |
| 37 | 6 | James McRae | 10-005 | 38.45 | \$ 37,969 | \$ 4,832 | \$ 14,250 | | \$ 57,051 | \$ 19,017 | \$ 12,160 | \$ 25,874 |
| 37 | 6 | Yvan & Sarah Rodrigues | 10-005-01 | 2.02 | \$ 5,632 | \$ 324 | \$ 14,250 | | \$ 20,206 | * | \$ 4,410 | \$ 15,796 |
| 38 | 6 | Robert & Gladys Kyle | 10-006 | 52.61 | \$ - | \$ 7,767 | | | \$ 7,767 | \$ 2,589 | \$ - | \$ 5,178 |
| 36 | 6 | John Jasco Estate | 10-007 | 30.35 | \$ 31,202 | \$ 6,704 | \$ 12,240 | | \$ 50,146 | \$ 16,715 | \$ 13,720 | \$ 19,711 |
| 35 | 6 | Robert & Shirley Watson | 10-008 | 1.70 | \$ - | \$ 1,068 | | | \$ 1,068 | * | \$ - | \$ 1,068 |
| 35 | 6 | Kent Brown & Kelley Lamarre | 10-008-01 | 0.53 | \$ - | \$ 263 | | | \$ 263 | * | \$ - | \$ 263 |
| 35 | 6 | Hydro One Networks Inc. | 10-008-02 | 0.14 | \$ - | \$ 46 | | | \$ 46 | * | \$ - | \$ 46 |
| 35 | 6 | Ronald & Christine Cochrane | 10-008-03 | 0.51 | \$ - | \$ 247 | | | \$ 247 | * | \$ - | \$ 247 |
| 35 & 36 | 6 | Valerie Pynenburg | 10-008-05 | 46.08 | \$ 28,642 | \$ 12,546 | | | \$ 41,188 | \$ 13,729 | \$ 9,170 | \$ 18,289 |
| 35 | 6 | Corus television G P Inc. | 10-008-10 | 19.40 | \$ - | \$ 3,033 | | | \$ 3,033 | * | \$ - | \$ 3,033 |
| 35 | 6 | Jennifer Sweet | 10-009 | 18.77 | \$ - | \$ 2,787 | | | \$ 2,787 | \$ 929 | \$ - | \$ 1,858 |
| 36 | 6 | James McRae | 10-010 | 40.43 | \$ - | \$ 6,489 | | | \$ 6,489 | \$ 2,163 | \$ - | \$ 4,326 |
| 34 | 6 | Brenbe Farms Inc. | 10-011 | 34.89 | \$ - | \$ 12,023 | | | \$ 12,023 | \$ 4,008 | \$ - | \$ 8,015 |
| 34 | 6 | Neil & Wanda Koeslag | 10-011-01 | 0.39 | \$ - | \$ 262 | | | \$ 262 | * | \$ - | \$ 262 |
| 33 & 34 | 6 | Chris & Catherine Hall | 10-032 | 23.95 | \$ - | \$ 4,155 | | | \$ 4,155 | \$ 1,385 | \$ - | \$ 2,770 |
| 36 | 5 | James McRae | 10-181 | 19.05 | \$ - | \$ 1,687 | | | \$ 1,687 | \$ 562 | \$ - | \$ 1,125 |
| 35 & 36 | 5 | David Cleave | 10-182 | 28.29 | \$ - | \$ 2,742 | | | \$ 2,742 | \$ 914 | \$ - | \$ 1,828 |
| 36 | 5 | Diane Shantz | 10-186 | 0.47 | \$ - | \$ 4 | | | \$ 4 | \$ 1 | \$ - | \$ 3 |
| 38 | 5 | Peter Kyle | 10-187 | 40.96 | \$ 36,043 | \$ 2,493 | \$ 26,760 | | \$ 65,296 | \$ 21,765 | \$ 17,030 | \$ 26,501 |
| 37 | 5 | Donald & Linda Davidson | 10-187-10 | 0.71 | \$ - | \$ 98 | | | \$ 98 | * | \$ - | \$ 98 |
| 37 | 5 | Marlene Perry & Linda Davidson | 10-188 | 9.28 | \$ 9,086 | \$ 748 | | | \$ 9,834 | \$ 3,278 | \$ 3,460 | \$ 3,096 |
| 37 | 5 | Christopher, Barbara & Wendy Perry | 10-189 | 20.23 | \$ - | \$ 1,858 | | | \$ 1,858 | \$ 619 | \$ - | \$ 1,239 |
| 37 | 5 | Edward & Diane Shantz | 10-190 | 10.72 | \$ - | \$ 736 | | | \$ 736 | \$ 245 | \$ - | \$ 491 |
| 37 | 5 | William & Marlene Perry | 10-191 | 11.32 | \$ - | \$ 945 | | | \$ 945 | \$ 315 | \$ - | \$ 630 |
| 38 | 5 | Jeffrey & Julie Sayles | 10-193 | 20.93 | \$ - | \$ 1,702 | | | \$ 1,702 | \$ 567 | \$ - | \$ 1,135 |
| Total Assessments on Lands (County of Brant) | | | | | \$ 158,645 | \$ 92,981 | \$ 80,400 | \$ - | \$ 332,026 | \$ 102,266 | \$ 62,785 | \$ 166,975 |
| Nith Road | | County of Brant | | 4.85 | \$ 5,287 | \$ 3,110 | | \$ 47,210 | \$ 55,607 | | | \$ 55,607 |
| Drumbo Road | | County of Brant | | 6.61 | \$ 1,418 | \$ 1,627 | | \$ 4,900 | \$ 7,945 | | | \$ 7,945 |
| Brant Oxford Road | | County of Brant | | 1.93 | \$ - | \$ 1,742 | | | \$ 1,742 | | | \$ 1,742 |
| Ayr Road | | County of Brant | | 5.27 | \$ - | \$ 6,689 | | | \$ 6,689 | | | \$ 6,689 |
| Brant Waterloo Road | | County of Brant | | 2.60 | \$ - | \$ 3,654 | | | \$ 3,654 | | | \$ 3,654 |
| Total Assessments on Roads (County of Brant) | | | | | \$ 6,705 | \$ 16,822 | \$ - | \$ 52,110 | \$ 75,637 | | | \$ 75,637 |
| Total Assessments on Lands and Roads (County of Brant) | | | | | \$ 165,350 | \$ 109,803 | \$ 80,400 | \$ 52,110 | \$ 407,663 | \$ 102,266 | \$ 62,785 | \$ 242,612 |

| | Property Details | | | | Drainage Act Instruments of Assessment | | | | For Information | | | | |
|---------------------------------------|---|------------|---|-------------|--|-------------------|----------------------------|---------------------------|------------------------------|------------------|------------------|-----------------|-----------------------|
| | Part Lot | Concession | Landowner | Roll Number | Approx. Ha. Affected | Benefit (Sec. 22) | Outlet Liability (Sec. 23) | Special Benefit (Sec. 24) | Special Assessment (Sec. 26) | Total Assessment | Less Gov't Grant | Less Allowances | Net Estimated Expense |
| Township of North Dumfries | | | | | | | | | | | | | |
| | 35 | 7 | 1054454 Ontario Ltd. | 5-081 | 30.30 | \$ - | \$ 7,365 | | | \$ 7,365 | \$ 2,455 | \$ - | \$ 4,910 |
| | 36 | 7 | Derrick Elliott | 5-082 | 25.25 | \$ - | \$ 6,250 | | | \$ 6,250 | \$ 2,083 | \$ - | \$ 4,167 |
| | 37 & 38 | 7 | Edgar Farms Ltd. | 5-085 | 37.05 | \$ - | \$ 8,683 | | | \$ 8,683 | \$ 2,894 | \$ - | \$ 5,789 |
| | 33 & 34 | 7 | Ayr Block (Lands) (Section 25 Block Assessment) | | 20.70 | \$ - | \$ 17,095 | | | \$ 17,095 | * | \$ - | \$ 17,095 |
| | Total Assessments on Lands (Township of North Dumfries) | | | | | \$ - | \$ 39,393 | \$ - | \$ - | \$ 39,393 | \$ 7,432 | \$ - | \$ 31,961 |
| | Brant Waterloo Road | | Township of North Dumfries | | 2.60 | \$ - | \$ 3,654 | | | \$ 3,654 | | | \$ 3,654 |
| | Swan Street | | Township of North Dumfries | | 1.00 | \$ - | \$ 1,652 | | | \$ 1,652 | | | \$ 1,652 |
| | Ayr Block (Roads) (Section 25 Block | | Township of North Dumfries | | 3.30 | \$ - | \$ 6,544 | | | \$ 6,544 | | | \$ 6,544 |
| | Nith Road | | Township of North Dumfries | | 0.60 | \$ - | \$ 638 | | | \$ 638 | | | \$ 638 |
| | Total Assessments on Roads (Township of North Dumfries) | | | | | \$ - | \$ 12,488 | \$ - | \$ - | \$ 12,488 | | | \$ 12,488 |
| | Total Assessments on Lands and Roads (Twp of North Dumfries) | | | | | \$ - | \$ 51,881 | \$ - | \$ - | \$ 51,881 | \$ 7,432 | \$ - | \$ 44,449 |
| Township of Blandford-Blenheim | | | | | | | | | | | | | |
| | 1 | 7 | 1909 Culinary Academy Ltd. | 40-035 | 0.10 | \$ - | \$ 64 | | | \$ 64 | * | \$ - | \$ 64 |
| | 1 | 7 | Peter & George Kyle | 40-036-10 | 7.04 | \$ - | \$ 954 | | | \$ 954 | \$ 318 | \$ - | \$ 636 |
| | 1 | 7 | Donbar Farms Ltd. | 40-055 | 27.44 | \$ - | \$ 4,542 | | | \$ 4,542 | \$ 1,514 | \$ - | \$ 3,028 |
| | 2 | 7 | Thomas Sayles | 40-056 | 0.58 | \$ - | \$ 9 | | | \$ 9 | \$ 3 | \$ - | \$ 6 |
| | 1 | 8 | Edgar Farms Ltd. | 40-065 | 17.50 | \$ - | \$ 3,723 | | | \$ 3,723 | \$ 1,241 | \$ - | \$ 2,482 |
| | Total Assessments on Lands (Township of Blandford-Blenheim) | | | | | \$ - | \$ 9,292 | \$ - | \$ - | \$ 9,292 | \$ 3,076 | \$ - | \$ 6,216 |
| | Oxford Road 36 | | Township of Blandford-Blenheim | | 1.93 | \$ - | \$ 1,742 | | | \$ 1,742 | | | \$ 1,742 |
| | Township Road 8 | | Township of Blandford-Blenheim | | 1.12 | \$ - | \$ 822 | | | \$ 822 | | | \$ 822 |
| | Total Assessments on Roads (Township of Blandford-Blenheim) | | | | | \$ - | \$ 2,564 | \$ - | \$ - | \$ 2,564 | \$ - | \$ - | \$ 2,564 |
| | Total Assessments on Lands and Roads (Twp of Blandford-Blenheim) | | | | | \$ - | \$ 11,856 | \$ - | \$ - | \$ 11,856 | \$ 3,076 | \$ - | \$ 8,780 |
| | Total Assessments Main Drain (Open) | | | | | \$ 165,350 | \$ 173,540 | \$ 80,400 | \$ 52,110 | \$ 471,400 | \$ 112,774 | \$ 62,785 | \$ 295,841 |

| Property Details | | | | | Drainage Act Instruments of Assessment | | | | | For Information | | |
|---|------------|----------------------------|-------------|--------------------------------|--|----------------------------|---------------------------|------------------------------|-------------------|------------------|------------------|-----------------------|
| Part Lot | Concession | Landowner | Roll Number | Approx. Ha. Affected | Benefit (Sec. 22) | Outlet Liability (Sec. 23) | Special Benefit (Sec. 24) | Special Assessment (Sec. 26) | Total Assessment | Less Gov't Grant | Less Allowances | Net Estimated Expense |
| County of Brant | | | | | | | | | | | | |
| 38 | 6 | Ashlawn Land Corporation | 10-001 | 14.30 | \$ 14,267 | \$ 17,480 | | | \$ 31,747 | \$ 10,582 | \$ 500 | \$ 20,665 |
| 37 | 6 | James McRae | 10-005 | 2.09 | \$ 10,268 | \$ 423 | | | \$ 10,691 | \$ 3,564 | \$ 5,560 | \$ 1,567 |
| 38 | 6 | Robert & Gladys Kyle | 10-006 | 38.49 | \$ 53,545 | \$ 15,166 | | | \$ 68,711 | \$ 22,904 | \$ 13,840 | \$ 31,967 |
| Total Assessments on Lands (County of Brant) | | | | | \$ 78,080 | \$ 33,069 | \$ - | \$ - | \$ 111,149 | \$ 37,050 | \$ 19,900 | \$ 54,199 |
| Brant Oxford Road | | | | County of Brant | 0.92 | \$ - | \$ 1,780 | | \$ 1,780 | | | \$ 1,780 |
| Total Assessments on Roads (County of Brant) | | | | | \$ - | \$ 1,780 | \$ - | \$ - | \$ 1,780 | | | \$ 1,780 |
| Total Assessments on Lands and Roads (County of Brant) | | | | | \$ 78,080 | \$ 34,849 | \$ - | \$ - | \$ 112,929 | \$ 37,050 | \$ 19,900 | \$ 55,979 |
| Township of Blandford-Blenheim | | | | | | | | | | | | |
| 1 | 7 | 1909 Culinary Academy Ltd. | 40-035 | 0.10 | \$ - | \$ 147 | | | \$ 147 | * | \$ - | \$ 147 |
| 1 | 7 | Peter & George Kyle | 40-036-10 | 3.74 | \$ - | \$ 1,447 | | | \$ 1,447 | \$ 482 | \$ - | \$ 965 |
| 1 | 7 | Donbar Farms Ltd. | 40-055 | 27.07 | \$ - | \$ 10,280 | | | \$ 10,280 | \$ 3,427 | \$ - | \$ 6,853 |
| 2 | 7 | Thomas Sayles | 40-056 | 0.58 | \$ - | \$ 22 | | | \$ 22 | \$ 7 | \$ - | \$ 15 |
| 1 | 8 | Edgar Farms Ltd. | 40-065 | 2.75 | \$ - | \$ 1,064 | | | \$ 1,064 | \$ 355 | \$ - | \$ 709 |
| Total Assessments on Lands (Township of Blandford-Blenheim) | | | | | \$ - | \$ 12,960 | \$ - | \$ - | \$ 12,960 | \$ 4,271 | \$ - | \$ 8,689 |
| Oxford Road 36 | | | | Township of Blandford-Blenheim | 0.92 | \$ - | \$ 1,780 | | \$ 1,780 | | | \$ 1,780 |
| Township Road 8 | | | | Township of Blandford-Blenheim | 0.86 | \$ - | \$ 1,331 | | \$ 1,331 | | | \$ 1,331 |
| Total Assessments on Roads (Township of Blandford-Blenheim) | | | | | \$ - | \$ 3,111 | \$ - | \$ - | \$ 3,111 | | | \$ 3,111 |
| Total Assessments on Lands and Roads (Twp of Blandford-Blenheim) | | | | | \$ - | \$ 16,071 | \$ - | \$ - | \$ 16,071 | \$ 4,271 | \$ - | \$ 11,800 |
| Total Assessments Branch 'A' | | | | | \$ 78,080 | \$ 50,920 | \$ - | \$ - | \$ 129,000 | \$ 41,321 | \$ 19,900 | \$ 67,779 |

| Property Details | | | | | Drainage Act Instruments of Assessment | | | | | For Information | | |
|---|------------|---|-------------|--------------------------------|--|----------------------------|---------------------------|------------------------------|-------------------|------------------|------------------|-----------------------|
| Part Lot | Concession | Landowner | Roll Number | Approx. Ha. Affected | Benefit (Sec. 22) | Outlet Liability (Sec. 23) | Special Benefit (Sec. 24) | Special Assessment (Sec. 26) | Total Assessment | Less Gov't Grant | Less Allowances | Net Estimated Expense |
| County of Brant | | | | | | | | | | | | |
| 38 | 6 | Ashlawn Land Corporation | 10-001 | 24.23 | \$ 6,075 | \$ 10,420 | | | \$ 16,495 | \$ 5,498 | \$ - | \$ 10,997 |
| 37 | 6 | Robert Kyle | 10-002 | 18.90 | \$ 17,235 | \$ 3,315 | \$ 12,240 | | \$ 32,790 | \$ 10,930 | \$ 16,850 | \$ 5,010 |
| 37 | 6 | John, Robert & Peter Kyle, & Sheila Bretz | 10-003 | 4.30 | \$ 6,135 | \$ 11 | \$ 12,240 | | \$ 18,386 | \$ 6,129 | \$ 5,860 | \$ 6,397 |
| Total Assessments on Lands (County of Brant) | | | | | \$ 29,445 | \$ 13,746 | \$ 24,480 | \$ - | \$ 67,671 | \$ 22,557 | \$ 22,710 | \$ 22,404 |
| Nith Road | | | | County of Brant | 0.71 | \$ 5,681 | \$ 717 | | \$ 6,398 | | | \$ 6,398 |
| Brant Oxford Road | | | | County of Brant | 0.70 | \$ - | \$ 1,435 | | \$ 1,435 | | | \$ 1,435 |
| Brant Waterloo Road | | | | County of Brant | 1.20 | \$ 715 | \$ 2,459 | | \$ 3,174 | | | \$ 3,174 |
| Total Assessments on Roads (County of Brant) | | | | | \$ 6,396 | \$ 4,611 | \$ - | \$ - | \$ 11,007 | | | \$ 11,007 |
| Total Assessments on Lands and Roads (County of Brant) | | | | | \$ 35,841 | \$ 18,357 | \$ 24,480 | \$ - | \$ 78,678 | \$ 22,557 | \$ 22,710 | \$ 33,411 |
| Township of North Dumfries | | | | | | | | | | | | |
| 37 & 38 | 7 | Edgar Farms Ltd. | 5-085 | 37.05 | \$ 3,364 | \$ 15,181 | | | \$ 18,545 | \$ 6,182 | \$ - | \$ 12,363 |
| Total Assessments on Lands (Township of North Dumfries) | | | | | \$ 3,364 | \$ 15,181 | \$ - | \$ - | \$ 18,545 | \$ 6,182 | \$ - | \$ 12,363 |
| Brant Waterloo Road | | | | Township of North Dumfries | 1.20 | \$ 715 | \$ 2,457 | | \$ 3,172 | | | \$ 3,172 |
| Nith Road | | | | Township of North Dumfries | 0.30 | \$ - | \$ 492 | | \$ 492 | | | \$ 492 |
| Total Assessments on Roads (Township of North Dumfries) | | | | | \$ 715 | \$ 2,949 | \$ - | \$ - | \$ 3,664 | | | \$ 3,664 |
| Total Assessments on Lands and Roads (Twp of North Dumfries) | | | | | \$ 4,079 | \$ 18,130 | \$ - | \$ - | \$ 22,209 | \$ 6,182 | \$ - | \$ 16,027 |
| Township of Blandford-Blenheim | | | | | | | | | | | | |
| 1 | 7 | Donbar Farms Ltd. | 40-055 | 0.37 | \$ - | \$ 151 | | | \$ 151 | \$ 50 | \$ - | \$ 101 |
| 1 | 8 | Edgar Farms Ltd. | 40-065 | 14.75 | \$ - | \$ 5,701 | | | \$ 5,701 | \$ 1,900 | \$ - | \$ 3,801 |
| Total Assessments on Lands (Township of Blandford-Blenheim) | | | | | \$ - | \$ 5,852 | \$ - | \$ - | \$ 5,852 | \$ 1,950 | \$ - | \$ 3,902 |
| Oxford Road 36 | | | | Township of Blandford-Blenheim | 0.70 | \$ - | \$ 1,435 | | \$ 1,435 | | | \$ 1,435 |
| Township Road 8 | | | | Township of Blandford-Blenheim | 0.26 | \$ - | \$ 426 | | \$ 426 | | | \$ 426 |
| Total Assessments on Roads (Township of Blandford-Blenheim) | | | | | \$ - | \$ 1,861 | \$ - | \$ - | \$ 1,861 | \$ - | \$ - | \$ 1,861 |
| Total Assessments on Lands and Roads (Twp of Blandford-Blenheim) | | | | | \$ - | \$ 7,713 | \$ - | \$ - | \$ 7,713 | \$ 1,950 | \$ - | \$ 5,763 |
| Total Assessments Branch 'C' | | | | | \$ 39,920 | \$ 44,200 | \$ 24,480 | \$ - | \$ 108,600 | \$ 30,689 | \$ 22,710 | \$ 55,201 |

| Branch 'D' | Property Details | | | | | Drainage Act Instruments of Assessment | | | | | For Information | | |
|-------------------------------------|------------------|------------|---------------------------|-------------|----------------------|--|----------------------------|---------------------------|------------------------------|-------------------|------------------|------------------|-----------------------|
| | Part Lot | Concession | Landowner | Roll Number | Approx. Ha. Affected | Benefit (Sec. 22) | Outlet Liability (Sec. 23) | Special Benefit (Sec. 24) | Special Assessment (Sec. 26) | Total Assessment | Less Gov't Grant | Less Allowances | Net Estimated Expense |
| County of Brant | | | | | | | | | | | | | |
| | 36 | 6 | John Jasco Estate | 10-007 | 8.27 | \$ 14,249 | \$ 608 | \$ 12,240 | | \$ 27,097 | \$ 9,032 | \$ 8,510 | \$ 9,555 |
| | 35 & 36 | 6 | Valerie Pynenburg | 10-008-05 | 15.27 | \$ 22,169 | \$ 4,933 | \$ 10,400 | | \$ 37,502 | \$ 12,501 | \$ 8,790 | \$ 16,211 |
| | 35 | 6 | Corus television G P Inc. | 10-008-10 | 6.27 | \$ - | \$ 2,787 | | | \$ 2,787 | * | \$ - | \$ 2,787 |
| | 35 | 6 | Jennifer Sweet | 10-009 | 0.69 | \$ - | \$ 692 | | | \$ 692 | \$ 231 | \$ - | \$ 461 |
| | 36 | 6 | James McRae | 10-010 | 3.91 | \$ - | \$ 239 | | | \$ 239 | \$ 80 | \$ - | \$ 159 |
| | 34 | 6 | Brenbe Farms Inc. | 10-011 | 8.08 | \$ - | \$ 6,454 | | | \$ 6,454 | \$ 2,151 | \$ - | \$ 4,303 |
| | 33 & 34 | 6 | Chris & Catherine Hall | 10-032 | 23.95 | \$ - | \$ 14,071 | | | \$ 14,071 | \$ 4,690 | \$ - | \$ 9,381 |
| Total Assessments on Lands | | | | | | \$ 36,418 | \$ 29,784 | \$ 22,640 | \$ - | \$ 88,842 | \$ 28,685 | \$ 17,300 | \$ 42,857 |
| | Ayr Road | | County of Brant | | 2.92 | \$ 1,982 | \$ 12,176 | | | \$ 14,158 | | | \$ 14,158 |
| Total Assessments on Roads | | | | | | \$ 1,982 | \$ 12,176 | \$ - | \$ - | \$ 14,158 | | | \$ 14,158 |
| Total Assessments Branch 'D' | | | | | | \$ 38,400 | \$ 41,960 | \$ 22,640 | \$ - | \$ 103,000 | \$ 28,685 | \$ 17,300 | \$ 57,015 |

| Total Assessments Mitchell Municipal Drain | Drainage Act Instruments of Assessment Summary | | | | | For Information | | |
|--|--|----------------------------|---------------------------|------------------------------|------------------|------------------|-----------------|-----------------------|
| | Benefit (Sec. 22) | Outlet Liability (Sec. 23) | Special Benefit (Sec. 24) | Special Assessment (Sec. 26) | Total Assessment | Less Gov't Grant | Less Allowances | Net Estimated Expense |
| | \$ 321,750 | \$ 310,620 | \$ 127,520 | \$ 52,110 | \$ 812,000 | \$ 213,469 | \$ 122,695 | \$ 475,836 |

- Notes:
- '*' Denotes Lands not eligible for ADIP Grants.
 - The Special Benefit Assessment (Sec. 24) has been used to separate the benefit portion of private culvert crossings from the normal benefit assessment.
 - The Special Assessments (Sec. 26) shall be a non-proratable assessment. All other assessments are proratable.
 - The Net Estimated Expense is the Total Assessment less gov't grants and allowances (if applicable).

**Schedule of Assessment for Construction
Mitchell Municipal Drain**

| Property Details | | | | | Summary of Assessment | | | | | For Information | | |
|---|------------|---|-------------|----------------------|-----------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-----------------------|
| Part Lot | Concession | Landowner | Roll Number | Approx. Ha. Affected | Main Drain (Open) | Branch 'A' | Branch 'C' | Branch 'D' | Total Assessment | Less Gov't Grant | Less Allowances | Net Estimated Expense |
| County of Brant | | | | | | | | | | | | |
| 38 | 6 | Ashlawn Land Corporation | 10-001 | 52.61 | \$ 10,040 | \$ 31,747 | \$ 16,495 | \$ - | \$ 58,282 | \$ 19,427 | \$ 500 | \$ 38,355 |
| 37 | 6 | Robert Kyle | 10-002 | 20.23 | \$ 4,685 | \$ - | \$ 32,790 | \$ - | \$ 37,475 | \$ 12,492 | \$ 16,850 | \$ 8,133 |
| 37 | 6 | John, Robert & Peter Kyle, & Sheila Bretz | 10-003 | 14.16 | \$ 9,728 | \$ - | \$ 18,386 | \$ - | \$ 28,114 | \$ 9,371 | \$ 7,245 | \$ 11,498 |
| 37 | 6 | Kathryn Roxburgh | 10-004 | 5.93 | \$ 15,940 | \$ - | \$ - | \$ - | \$ 15,940 | \$ 5,313 | \$ 1,450 | \$ 9,177 |
| 37 | 6 | James McRae | 10-005 | 38.45 | \$ 57,051 | \$ 10,691 | \$ - | \$ - | \$ 67,742 | \$ 22,581 | \$ 17,720 | \$ 27,441 |
| 37 | 6 | Yvan & Sarah Rodrigues | 10-005-01 | 2.02 | \$ 20,206 | \$ - | \$ - | \$ - | \$ 20,206 | * | \$ 4,410 | \$ 15,796 |
| 38 | 6 | Robert & Gladys Kyle | 10-006 | 52.61 | \$ 7,767 | \$ 68,711 | \$ - | \$ - | \$ 76,478 | \$ 25,493 | \$ 13,840 | \$ 37,145 |
| 36 | 6 | John Jasco Estate | 10-007 | 30.35 | \$ 50,146 | \$ - | \$ - | \$ 27,097 | \$ 77,243 | \$ 25,748 | \$ 22,230 | \$ 29,265 |
| 35 | 6 | Robert & Shirley Watson | 10-008 | 1.70 | \$ 1,068 | \$ - | \$ - | \$ - | \$ 1,068 | * | \$ - | \$ 1,068 |
| 35 | 6 | Kent Brown & Kelley Lamarre | 10-008-01 | 0.53 | \$ 263 | \$ - | \$ - | \$ - | \$ 263 | * | \$ - | \$ 263 |
| 35 | 6 | Hydro One Networks Inc. | 10-008-02 | 0.14 | \$ 46 | \$ - | \$ - | \$ - | \$ 46 | * | \$ - | \$ 46 |
| 35 | 6 | Ronald & Christine Cochrane | 10-008-03 | 0.51 | \$ 247 | \$ - | \$ - | \$ - | \$ 247 | * | \$ - | \$ 247 |
| 35 & 36 | 6 | Valerie Pynenburg | 10-008-05 | 46.08 | \$ 41,188 | \$ - | \$ - | \$ 37,502 | \$ 78,690 | \$ 26,230 | \$ 17,960 | \$ 34,500 |
| 35 | 6 | Corus television G P Inc. | 10-008-10 | 19.40 | \$ 3,033 | \$ - | \$ - | \$ 2,787 | \$ 5,820 | * | \$ - | \$ 5,820 |
| 35 | 6 | Jennifer Sweet | 10-009 | 18.77 | \$ 2,787 | \$ - | \$ - | \$ 692 | \$ 3,479 | \$ 1,160 | \$ - | \$ 2,319 |
| 36 | 6 | James McRae | 10-010 | 40.43 | \$ 6,489 | \$ - | \$ - | \$ 239 | \$ 6,728 | \$ 2,243 | \$ - | \$ 4,485 |
| 34 | 6 | Brenbe Farms Inc. | 10-011 | 34.89 | \$ 12,023 | \$ - | \$ - | \$ 6,454 | \$ 18,477 | \$ 6,159 | \$ - | \$ 12,318 |
| 34 | 6 | Neil & Wanda Koeslag | 10-011-01 | 0.39 | \$ 262 | \$ - | \$ - | \$ - | \$ 262 | * | \$ - | \$ 262 |
| 33 & 34 | 6 | Chris & Catherine Hall | 10-032 | 23.95 | \$ 4,155 | \$ - | \$ - | \$ 14,071 | \$ 18,226 | \$ 6,075 | \$ - | \$ 12,151 |
| 36 | 5 | James McRae | 10-181 | 19.05 | \$ 1,687 | \$ - | \$ - | \$ - | \$ 1,687 | \$ 562 | \$ - | \$ 1,125 |
| 35 & 36 | 5 | David Cleave | 10-182 | 28.29 | \$ 2,742 | \$ - | \$ - | \$ - | \$ 2,742 | \$ 914 | \$ - | \$ 1,828 |
| 36 | 5 | Diane Shantz | 10-186 | 0.47 | \$ 4 | \$ - | \$ - | \$ - | \$ 4 | \$ 1 | \$ - | \$ 3 |
| 38 | 5 | Peter Kyle | 10-187 | 40.96 | \$ 65,296 | \$ - | \$ - | \$ - | \$ 65,296 | \$ 21,765 | \$ 17,030 | \$ 26,501 |
| 37 | 5 | Donald & Linda Davidson | 10-187-10 | 0.71 | \$ 98 | \$ - | \$ - | \$ - | \$ 98 | * | \$ - | \$ 98 |
| 37 | 5 | Marlene Perry & Linda Davidson | 10-188 | 9.28 | \$ 9,834 | \$ - | \$ - | \$ - | \$ 9,834 | \$ 3,278 | \$ 3,460 | \$ 3,096 |
| 37 | 5 | Christopher, Barbara & Wendy Perry | 10-189 | 20.23 | \$ 1,858 | \$ - | \$ - | \$ - | \$ 1,858 | \$ 619 | \$ - | \$ 1,239 |
| 37 | 5 | Edward & Diane Shantz | 10-190 | 10.72 | \$ 736 | \$ - | \$ - | \$ - | \$ 736 | \$ 245 | \$ - | \$ 491 |
| 37 | 5 | William & Marlene Perry | 10-191 | 11.32 | \$ 945 | \$ - | \$ - | \$ - | \$ 945 | \$ 315 | \$ - | \$ 630 |
| 38 | 5 | Jeffrey & Julie Sayles | 10-193 | 20.93 | \$ 1,702 | \$ - | \$ - | \$ - | \$ 1,702 | \$ 567 | \$ - | \$ 1,135 |
| Total Assessments on Lands (County of Brant) | | | | | \$ 332,026 | \$ 111,149 | \$ 67,671 | \$ 88,842 | \$ 599,688 | \$ 190,558 | \$ 122,695 | \$ 286,435 |

| Property Details | | | | | Summary of Assessment | | | | | For Information | | |
|--|------------|---|-------------|----------------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|
| Part Lot | Concession | Landowner | Roll Number | Approx. Ha. Affected | Main Drain (Open) | Branch 'A' | Branch 'C' | Branch 'D' | Total Assessment | Less Gov't Grant | Less Allowances | Net Estimated Expense |
| Nith Road | | County of Brant | | 4.85 | \$ 55,607 | \$ - | \$ 6,398 | \$ - | \$ 62,005 | | | \$ 62,005 |
| Drumbo Road | | County of Brant | | 6.61 | \$ 7,945 | \$ - | \$ - | \$ - | \$ 7,945 | | | \$ 7,945 |
| Brant Oxford Road | | County of Brant | | 1.93 | \$ 1,742 | \$ 1,780 | \$ 1,435 | \$ - | \$ 4,957 | | | \$ 4,957 |
| Ayr Road | | County of Brant | | 5.27 | \$ 6,689 | \$ - | \$ - | \$ 14,158 | \$ 20,847 | | | \$ 20,847 |
| Brant Waterloo Road | | County of Brant | | 2.60 | \$ 3,654 | \$ - | \$ 3,174 | \$ - | \$ 6,828 | | | \$ 6,828 |
| Total Assessments on Roads (County of Brant) | | | | | \$ 75,637 | \$ 1,780 | \$ 11,007 | \$ 14,158 | \$ 102,582 | | | \$ 102,582 |
| Total Assessments on Lands and Roads (County of Brant) | | | | | \$ 407,663 | \$ 112,929 | \$ 78,678 | \$ 103,000 | \$ 702,270 | \$ 190,558 | \$ 122,695 | \$ 389,017 |
| Township of North Dumfries | | | | | | | | | | | | |
| 35 | 7 | 1054454 Ontario Ltd. | 5-081 | 30.30 | \$ 7,365 | \$ - | \$ - | \$ - | \$ 7,365 | \$ 2,455 | \$ - | \$ 4,910 |
| 36 | 7 | Derrick Elliott | 5-082 | 25.25 | \$ 6,250 | \$ - | \$ - | \$ - | \$ 6,250 | \$ 2,083 | \$ - | \$ 4,167 |
| 37 & 38 | 7 | Edgar Farms Ltd. | 5-085 | 37.05 | \$ 8,683 | \$ - | \$ 18,545 | \$ - | \$ 27,228 | \$ 9,076 | \$ - | \$ 18,152 |
| 33 & 34 | 7 | Ayr Block (Lands) (Section 25 Block Assessment) | | 20.70 | \$ 17,095 | \$ - | \$ - | \$ - | \$ 17,095 | * | \$ - | \$ 17,095 |
| Total Assessments on Lands (Township of North Dumfries) | | | | | \$ 39,393 | \$ - | \$ 18,545 | \$ - | \$ 57,938 | \$ 13,614 | \$ - | \$ 44,324 |
| Brant Waterloo Road | | Township of North Dumfries | | 2.60 | \$ 3,654 | \$ - | \$ 3,172 | \$ - | \$ 6,826 | | | \$ 6,826 |
| Swan Street | | Township of North Dumfries | | 1.00 | \$ 1,652 | \$ - | \$ - | \$ - | \$ 1,652 | | | \$ 1,652 |
| Ayr Block (Roads) (Section 25 Block Assessment) | | | | 3.30 | \$ 6,544 | \$ - | \$ - | \$ - | \$ 6,544 | | | \$ 6,544 |
| Nith Road | | Township of North Dumfries | | 0.60 | \$ 638 | \$ - | \$ 492 | \$ - | \$ 1,130 | | | \$ 1,130 |
| Total Assessments on Roads (Township of North Dumfries) | | | | | \$ 12,488 | \$ - | \$ 3,664 | \$ - | \$ 16,152 | | | \$ 16,152 |
| Total Assessments on Lands and Roads (Township of North Dumfries) | | | | | \$ 51,881 | \$ - | \$ 22,209 | \$ - | \$ 74,090 | \$ 13,614 | \$ - | \$ 60,476 |
| Township of Blandford-Blenheim | | | | | | | | | | | | |
| 1 | 7 | 1909 Culinary Academy Ltd. | 40-035 | 0.10 | \$ 64 | \$ 147 | \$ - | \$ - | \$ 211 | * | \$ - | \$ 211 |
| 1 | 7 | Peter & George Kyle | 40-036-10 | 7.04 | \$ 954 | \$ 1,447 | \$ - | \$ - | \$ 2,401 | \$ 800 | \$ - | \$ 1,601 |
| 1 | 7 | Donbar Farms Ltd. | 40-055 | 27.44 | \$ 4,542 | \$ 10,280 | \$ 151 | \$ - | \$ 14,973 | \$ 4,991 | \$ - | \$ 9,982 |
| 2 | 7 | Thomas Sayles | 40-056 | 0.58 | \$ 9 | \$ 22 | \$ - | \$ - | \$ 31 | \$ 10 | \$ - | \$ 21 |
| 1 | 8 | Edgar Farms Ltd. | 40-065 | 17.50 | \$ 3,723 | \$ 1,064 | \$ 5,701 | \$ - | \$ 10,488 | \$ 3,496 | \$ - | \$ 6,992 |
| Total Assessments on Lands (Twp of Blandford-Blenheim) | | | | | \$ 9,292 | \$ 12,960 | \$ 5,852 | \$ - | \$ 28,104 | \$ 9,297 | \$ - | \$ 18,807 |
| Oxford Road 36 | | Township of Blandford-Blenheim | | 1.93 | \$ 1,742 | \$ 1,780 | \$ 1,435 | \$ - | \$ 4,957 | | | \$ 4,957 |
| Township Road 8 | | Township of Blandford-Blenheim | | 1.12 | \$ 822 | \$ 1,331 | \$ 426 | \$ - | \$ 2,579 | | | \$ 2,579 |
| Total Assessments on Roads (Twp of Blandford-Blenheim) | | | | | \$ 2,564 | \$ 3,111 | \$ 1,861 | \$ - | \$ 7,536 | | | \$ 7,536 |
| Total Assessments on Lands and Roads (Township of Blandford-Blenheim) | | | | | \$ 11,856 | \$ 16,071 | \$ 7,713 | \$ - | \$ 35,640 | \$ 9,297 | \$ - | \$ 26,343 |
| Total Assessments Mitchell Municipal Drain | | | | | \$ 471,400 | \$ 129,000 | \$ 108,600 | \$ 103,000 | \$ 812,000 | \$ 213,469 | \$ 122,695 | \$ 475,836 |

- Notes: 1 '*' Denotes Lands not eligible for ADIP Grants.
2 The Net Estimated Expense is the Total Assessment less gov't grants and allowances (if applicable).



Schedule D

Schedule of Assessment for Future Maintenance

**Schedule of Assessment for Maintenance
Mitchell Municipal Drain**

| Property Details | | | | | Proportion of Maintenance Assessment | | | | | | | | | | | | |
|---|------|---|-------------|----------------------|--------------------------------------|---------------|---------------|---------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Part Lot | Con. | Landowner | Roll Number | Approx. Ha. Affected | Open Ditches & Closed Pipes | | | | Culverts and Crossings | | | | | | | | |
| | | | | | Main Drain (Open) | Branch 'A' | Branch 'C' | Branch 'D' | Main Drain Sta. 0+148 | Main Drain Sta. 0+970 | Main Drain Sta. 1+088 | Main Drain Sta. 1+889 | Main Drain Sta. 2+439 | Branch 'C' Sta. 0+264 | Branch 'C' Sta. 0+422 | Branch 'D' Sta. 0+217 | Branch 'D' Sta. 0+830 |
| County of Brant | | | | | | | | | | | | | | | | | |
| 38 | 6 | Ashlawn Land Corporation | 10-001 | 52.61 | 5.79% | 34.33% | 23.57% | | 3.46% | 3.82% | 3.87% | 2.94% | | 8.50% | 9.26% | | |
| 37 | 6 | Robert Kyle | 10-002 | 20.23 | 2.70% | | 7.50% | | 1.44% | 1.60% | 1.61% | 2.18% | | 6.31% | 63.28% | | |
| 37 | 6 | John, Robert & Peter Kyle, & Sheila Bretz | 10-003 | 14.16 | 1.49% | | 0.02% | | 0.80% | 0.89% | 0.90% | 1.27% | | 60.00% | | | |
| 37 | 6 | Kathryn Roxburgh | 10-004 | 5.93 | 0.06% | | | | 0.04% | 0.05% | 0.05% | 50.00% | | | | | |
| 37 | 6 | James McRae | 10-005 | 38.45 | 2.78% | 0.83% | | | 2.27% | 2.51% | 52.20% | | | | | | |
| 37 | 6 | Yvan & Sarah Rodrigues * | 10-005-01 | 2.02 | 0.19% | | | | 0.20% | 50.14% | | | | | | | |
| 38 | 6 | Robert & Gladys Kyle | 10-006 | 52.61 | 4.48% | 29.78% | | | 3.65% | 3.11% | 3.12% | | | | | | |
| 36 | 6 | John Jasco Estate | 10-007 | 30.35 | 3.86% | | | 1.45% | 2.00% | 2.21% | 2.23% | 3.24% | 60.07% | | | 62.61% | |
| 35 | 6 | Robert & Shirley Watson * | 10-008 | 1.70 | 0.62% | | | | 0.23% | 0.26% | 0.26% | 0.38% | 0.63% | | | | |
| 35 | 6 | Kent Brown & Kelley Lamarre * | 10-008-01 | 0.53 | 0.15% | | | | 0.06% | 0.06% | 0.06% | 0.09% | 0.15% | | | | |
| 35 | 6 | Hydro One Networks Inc. * | 10-008-02 | 0.14 | 0.03% | | | | 0.01% | 0.01% | 0.01% | 0.02% | 0.02% | | | | |
| 35 | 6 | Ronald & Christine Cochrane * | 10-008-03 | 0.51 | 0.14% | | | | 0.05% | 0.06% | 0.06% | 0.09% | 0.14% | | | | |
| 35 & 36 | 6 | Valerie Pynenburg | 10-008-05 | 46.08 | 7.23% | | | | 3.01% | 3.33% | 3.37% | 4.88% | 5.58% | | | 8.49% | 65.00% |
| 35 | 6 | Corus television G P Inc. * | 10-008-10 | 19.40 | 1.75% | | | | 6.64% | 1.17% | 1.30% | 1.31% | 0.38% | | | 2.14% | 2.59% |
| 35 | 6 | Jennifer Sweet | 10-009 | 18.77 | 1.61% | | | | 1.65% | 1.57% | 0.81% | 0.82% | 0.08% | | | 0.45% | 0.54% |
| 36 | 6 | James McRae | 10-010 | 40.43 | 3.74% | | | | 0.57% | 2.90% | 2.56% | 2.59% | 0.45% | | | | |
| 34 | 6 | Brenbe Farms Inc. | 10-011 | 34.89 | 6.93% | | | | 15.38% | 2.77% | 3.07% | 3.10% | 4.49% | 5.88% | | 5.27% | 6.39% |
| 34 | 6 | Neil & Wanda Koeslag * | 10-011-01 | 0.39 | 0.15% | | | | 0.06% | 0.06% | 0.06% | 0.09% | 0.15% | | | | |
| 33 & 34 | 6 | Chris & Catherine Hall | 10-032 | 23.95 | 2.39% | | | | 33.53% | 1.26% | 1.39% | 1.40% | 2.03% | | | 11.50% | 13.93% |
| 36 | 5 | James McRae | 10-181 | 19.05 | 0.97% | | | | | 1.24% | | | | | | | |
| 35 & 36 | 5 | David Cleave | 10-182 | 28.29 | 1.58% | | | | | 2.02% | | | | | | | |
| 36 | 5 | Diane Shantz | 10-186 | 0.47 | 0.00% | | | | | 0.00% | | | | | | | |
| 38 | 5 | Peter Kyle | 10-187 | 40.96 | 1.44% | | | | | 42.39% | | | | | | | |
| 37 | 5 | Donald & Linda Davidson * | 10-187-10 | 0.71 | 0.06% | | | | | 0.08% | | | | | | | |
| 37 | 5 | Marlene Perry & Linda Davidson | 10-188 | 9.28 | 0.43% | | | | | 0.55% | | | | | | | |
| 37 | 5 | Christopher, Barbara & Wendy Perry | 10-189 | 20.23 | 1.07% | | | | | 1.37% | | | | | | | |
| 37 | 5 | Edward & Diane Shantz | 10-190 | 10.72 | 0.42% | | | | | 0.54% | | | | | | | |
| 37 | 5 | William & Marlene Perry | 10-191 | 11.32 | 0.54% | | | | | 0.70% | | | | | | | |
| 38 | 5 | Jeffrey & Julie Sayles | 10-193 | 20.93 | 0.98% | | | | | 1.25% | | | | | | | |
| Total Assessments on Lands (County of Brant) | | | | | 53.58% | 64.94% | 31.10% | 70.98% | 77.08% | 77.25% | 77.02% | 72.61% | 72.63% | 74.81% | 72.54% | 90.47% | 88.45% |

| Property Details | | | | | | Proportion of Maintenance Assessment | | | | | | | | | | | |
|--|------|---|-------------|----------------------|-----------------------------|--------------------------------------|----------------|----------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Part Lot | Con. | Landowner | Roll Number | Approx. Ha. Affected | Open Ditches & Closed Pipes | | | | Culverts and Crossings | | | | | | | | |
| | | | | | Main Drain (Open) | Branch 'A' | Branch 'C' | Branch 'D' | Main Drain Sta. 0+148 | Main Drain Sta. 0+970 | Main Drain Sta. 1+088 | Main Drain Sta. 1+889 | Main Drain Sta. 2+439 | Branch 'C' Sta. 0+264 | Branch 'C' Sta. 0+422 | Branch 'D' Sta. 0+217 | Branch 'D' Sta. 0+830 |
| Nith Road | | County of Brant | | 4.85 | 1.79% | | 1.62% | | 1.38% | 0.92% | 0.92% | 0.75% | | 0.95% | 1.03% | | |
| Drumbo Road | | County of Brant | | 6.61 | 0.94% | | | | 1.17% | | | | | | | | |
| Brant Oxford Road | | County of Brant | | 1.93 | 1.00% | 3.50% | 3.25% | | 0.69% | 0.64% | 0.65% | 0.40% | | 1.17% | 1.27% | | |
| Ayr Road | | County of Brant | | 5.27 | 3.85% | | | 29.02% | 1.88% | 1.87% | 1.89% | 2.74% | 1.74% | | | 9.53% | 11.55% |
| Brant Waterloo Road | | County of Brant | | 2.60 | 2.11% | | 5.56% | | 0.93% | 1.02% | 1.04% | 1.50% | 1.34% | 2.00% | 2.19% | | |
| Total Assessments on Roads (County of Brant) | | | | | 9.69% | 3.50% | 10.43% | 29.02% | 6.05% | 4.45% | 4.49% | 5.40% | 3.07% | 4.13% | 4.50% | 9.53% | 11.55% |
| Total Assessments on Lands and Roads (County of Brant) | | | | | 63.27% | 68.44% | 41.53% | 100.00% | 83.12% | 81.70% | 81.51% | 78.00% | 75.70% | 78.94% | 77.03% | 100.00% | 100.00% |
| Township of North Dumfries | | | | | | | | | | | | | | | | | |
| 35 | 7 | 1054454 Ontario Ltd. | 5-081 | 30.30 | 4.24% | | | | 1.59% | 1.78% | 1.78% | 2.58% | 4.25% | | | | |
| 36 | 7 | Derrick Elliott | 5-082 | 25.25 | 3.60% | | | | 1.44% | 1.60% | 1.61% | 2.34% | 3.86% | | | | |
| 37 & 38 | 7 | Edgar Farms Ltd. | 5-085 | 37.05 | 5.00% | | 34.35% | | 2.64% | 2.92% | 2.95% | 4.27% | | 12.38% | 13.49% | | |
| 33 & 34 | 7 | Ayr Block (Lands) (Section 25 Block Assessment) * | | 20.70 | 9.85% | | | | 3.69% | 4.08% | 4.12% | 5.98% | 9.88% | | | | |
| Total Assessments on Lands (Township of North Dumfries) | | | | | 22.70% | | 34.35% | | 9.36% | 10.38% | 10.46% | 15.17% | 18.00% | 12.38% | 13.49% | | |
| Brant Waterloo Road | | Township of North Dumfries | | 2.60 | 2.11% | | 5.56% | | 0.93% | 1.02% | 1.04% | 1.50% | 1.34% | 2.00% | 2.19% | | |
| Swan Street | | Township of North Dumfries | | 1.00 | 0.95% | | | | 0.36% | 0.39% | 0.40% | 0.58% | 0.96% | | | | |
| Ayr Block (Roads) (Section 25 Block Assessment) | | | | 3.30 | 3.77% | | | | 1.41% | 1.56% | 1.59% | 2.29% | 3.78% | | | | |
| Nith Road | | Township of North Dumfries | | 0.60 | 0.37% | | 1.11% | | 0.17% | 0.19% | 0.19% | 0.28% | 0.23% | 0.40% | 0.44% | | |
| Total Assessments on Roads (Township of North Dumfries) | | | | | 7.20% | | 6.67% | | 2.86% | 3.17% | 3.21% | 4.65% | 6.30% | 2.40% | 2.62% | | |
| Total Assessments on Lands and Roads (Township of North Dumfries) | | | | | 29.90% | | 41.02% | | 12.23% | 13.54% | 13.68% | 19.82% | 24.30% | 14.77% | 16.11% | | |
| Township of Blandford-Blenheim | | | | | | | | | | | | | | | | | |
| 1 | 7 | 1909 Culinary Academy Ltd. * | 40-035 | 0.10 | 0.04% | 0.29% | | | 0.03% | 0.03% | 0.03% | | | | | | |
| 1 | 7 | Peter & George Kyle | 40-036-10 | 7.04 | 0.55% | 2.84% | | | 0.50% | 0.29% | 0.30% | | | | | | |
| 1 | 7 | Donbar Farms Ltd. | 40-055 | 27.44 | 2.62% | 20.19% | 0.34% | | 1.92% | 2.12% | 2.15% | 0.04% | | 0.12% | 0.13% | | |
| 2 | 7 | Thomas Sayles | 40-056 | 0.58 | 0.01% | 0.04% | | | 0.00% | 0.00% | 0.00% | | | | | | |
| 1 | 8 | Edgar Farms Ltd. | 40-065 | 17.50 | 2.15% | 2.09% | 12.90% | | 1.19% | 1.31% | 1.33% | 1.61% | | 4.65% | 5.07% | | |
| Total Assessments on Lands (Twp of Blandford-Blenheim) | | | | | 5.35% | 25.45% | 13.24% | | 3.64% | 3.76% | 3.81% | 1.65% | | 4.77% | 5.20% | | |
| Oxford Road 36 | | Township of Blandford-Blenheim | | 1.93 | 1.00% | 3.50% | 3.25% | | 0.69% | 0.64% | 0.65% | 0.40% | | 1.17% | 1.27% | | |
| Township Road 8 | | Township of Blandford-Blenheim | | 1.12 | 0.47% | 2.61% | 0.96% | | 0.32% | 0.35% | 0.36% | 0.12% | | 0.35% | 0.38% | | |
| Total Assessments on Roads (Twp of Blandford-Blenheim) | | | | | 1.48% | 6.11% | 4.21% | | 1.01% | 0.99% | 1.00% | 0.52% | | 1.52% | 1.65% | | |
| Total Assessments on Lands and Roads (Township of Blandford-Blenheim) | | | | | 6.83% | 31.56% | 17.45% | | 4.65% | 4.76% | 4.81% | 2.17% | | 6.29% | 6.85% | | |
| Total Assessments Mitchell Municipal Drain | | | | | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |

- Notes: 1 '**' Denotes Lands not eligible for ADIP Grants.
2 All maintenance activities on road right-of-ways shall be completed at the expense of the road authority having jurisdiction over the road.
3 Lands located upstream of the maintenance shall be determined by the Drainage Superintendent.



Specifications for the Construction of Municipal Drainage Works

DIVISION A – General Conditions
DIVISION B – Specification for Open Drains
DIVISION C – Specifications for Tile Drains
DIVISION H – Special Provisions



DIVISION A

General Conditions



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DIVISION A – GENERAL CONDITIONS

A.1. Scope

The work to be done under this contract consists of supplying all labour, equipment and materials to construct the drainage work as outlined in the Scope of Work, Drawings, General Conditions and other Specifications.

A.2. Tenders

Tenders are to be submitted on a lump sum basis for the complete works or a portion thereof, as instructed by the Municipality. The Scope of Work must be completed and submitted with the Form of Tender and Agreement. A certified cheque is required as Tender Security, payable to the Treasurer of the Municipality.

All certified cheques, except that of the bidder to whom the work is awarded will be returned within ten (10) days after the tender closing. The certified cheque of the bidder to whom the work is awarded will be retained as Contract Security and returned when the Municipality receives a Completion Certificate for the work.

A certified cheque is not required if the Contractor provides an alternate form of Contract Security such as a Performance Bond for 100% of the amount of the Tender or other satisfactory security, if required/permitted by the Municipality. A Performance Bond may also be required to insure maintenance of the work for a period of one (1) year after the date of the Completion Certificate.

A.3. Examinations of Site, Drawings, and Specifications

The Tenderer must examine the premises and site to compare them with the Drawings and Specifications in order to satisfy himself of the existing conditions and extent of the work to be done before submission of his Tender. No allowance shall subsequently be made on behalf of the Contractor by reason of any error on his part. Any estimates of quantities shown or indicated on the Drawings, or elsewhere are provided for the convenience of the Tenderer. Any use made of these quantities by the Tenderer in calculating his Tender shall be done at his own risk. The Tenderer for his own protection should check these quantities for accuracy.

The standard specifications (Divisions B through G) shall be considered complementary and where a project is controlled under one of the Divisions, the remaining Divisions will apply for miscellaneous works.

In case of any inconsistency or conflict between the Drawings and Specifications, the following order of precedence shall apply:

- Direction of the Engineer
- Special Provisions (Division H)
- Scope of Work
- Contract Drawings
- Standard Specifications (Divisions B through G)
- General Conditions (Division A)



A.4. Payment

Progress payments equal to 87±% of the value of work completed and materials incorporated in the work will be made to the Contractor monthly. An additional ten per cent (10±%) will be paid 60 days after the final acceptance by the Engineer, and three per cent (3±%) of the Contract price may be reserved by the Municipality as a maintenance holdback for a one (1) year period from the date of the Completion Certificate. A greater percentage of the Contract price may be reserved by the Municipality for the same one (1) year period if in the opinion of the Engineer, particular conditions of the Contract requires such greater holdback.

After the completion of the work, any part of this reserve may be used to correct defects developed within that time from faulty workmanship and materials, provided that notice shall first be given to the Contractor and that he may promptly make good such defects.

A.5. Contractor's Liability Insurance

Prior to commencement of any work, the Contractor shall file with the Municipality evidence of compliance with all Municipality insurance requirements (Liability Insurance, WSIB, etc.) for no less than the minimum amounts as stated in the Purchasing Procedures of the Municipality. All insurance coverage shall remain in force for the entire contract period including the warranty period which expires one year after the date of the Completion Certificate.

The following are to be named as co-insured:

- Successful Contractor
- Sub-Contractor
- Municipality
- Headway Engineering

A.6. Losses Due to Acts of Nature, Etc.

All damage, loss, expense and delay incurred or experienced by the Contractor in the performance of the work, by reason of unanticipated difficulties, bad weather, strikes, acts of nature, or other mischances shall be borne by the Contractor and shall not be the subject of a claim for additional compensation.

A.7. Commencement and Completion of Work

The work must commence as specified in the Form of Tender and Agreement. If conditions are unsuitable due to poor weather, the Contractor may be required, at the discretion of the Engineer to postpone or halt work until conditions become acceptable and shall not be subject of a claim for additional compensation.

The Contractor shall give the Engineer a minimum of 48 hours notice before commencement of work. The Contractor shall then arrange a meeting to be held on the site with Contractor, Engineer, and affected Landowners to review in detail the construction scheduling and other details of the work.

If the Contractor leaves the job site for a period of time after initiation of work, he shall give the Engineer and the Municipality a minimum of 24 hours notice prior to returning to the project. If any work is commenced without notice to the Engineer, the Contractor shall be fully responsible for all such work undertaken prior to such notification.



The work must proceed in such a manner as to ensure its completion at the earliest possible date and within the time limit set out in the Form of Tender and Agreement.

A.8. Working Area and Access

Where any part of the drain is on a road allowance, the road allowance shall be the working area. For all other areas, the working area available to the Contractor to construct the drain is specified in the Special Provisions (Division H).

Should the specified widths become inadequate due to unusual conditions, the Contractor shall notify the Engineer immediately. Where the Contractor exceeds the specified working widths without authorization, he shall be held responsible for the costs of all additional damages.

If access off an adjacent road allowance is not possible, each Landowner on whose property the drainage works is to be constructed, shall designate access to and from the working area. The Contractor shall not enter any other lands without permission of the Landowner and he shall compensate the Landowner for damage caused by such entry.

A.9. Sub-Contractors

The Contractor shall not sublet the whole or part of this Contract without the approval of the Engineer.

A.10. Permits, Notices, Laws and Rules

The Contractor shall obtain and pay for all necessary permits or licenses required for the execution of the work (but this shall not include MTO encroachment permits, County Road permits permanent easement or rights of servitude). The Contractor shall give all necessary notices and pay for all fees required by law and comply with all laws, ordinances, rules and regulations relating to the work and to the preservation of the public's health and safety.

A.11. Railways, Highways, and Utilities

A minimum of 72 hours' notice to the Railway or Highways, exclusive of Saturdays, Sundays, and Statutory Holidays, is required by the Contractor prior to any work activities on or affecting the applicable property. In the case of affected Utilities, a minimum of 48 hours' notice to the utility owner is required.

A.12. Errors and Unusual Conditions

The Contractor shall notify the Engineer immediately of any error or unusual conditions which may be found. Any attempt by the Contractor to correct the error on his own shall be done at his own risk. Any additional cost incurred by the Contractor to remedy the wrong decision on his part shall be borne by the Contractor. The Engineer shall make the alterations necessary to correct errors or to adjust for unusual conditions during which time it will be the Contractor's responsibility to keep his men and equipment gainfully employed elsewhere on the project.

The Contract amount shall be adjusted in accordance with a fair evaluation of the work added or deleted.

A.13. Alterations and Additions

The Engineer shall have the power to make alterations in the work shown or described in the Drawings and Specifications and the Contractor shall proceed to make such changes without causing delay. In



every such case, the price agreed to be paid for the work under the Contract shall be increased or decreased as the case may require according to a fair and reasonable evaluation of the work added or deleted. The valuation shall be determined as a result of negotiations between the Contractor and the Engineer, but in all cases the Engineer shall maintain the final responsibility for the decision. Such alterations and variations shall in no way render the Contract void. No claims for a variation or alteration in the increased or decreased price shall be valid unless done in pursuance of an order from the Engineer and notice of such claims made in writing before commencement of such work. In no such case shall the Contractor commence work which he considers to be extra before receiving the Engineer's approval.

A.14. Supervision

The Contractor shall give the work his constant supervision and shall keep a competent foreman in charge at the site.

A.15. Field Meetings

At the discretion of the Engineer, a field meeting with the Contractor or his representative, the Engineer and with those others that the Engineer deems to be affected, shall be held at the location and time specified by the Engineer.

A.16. Periodic and Final Inspections

Periodic inspections by the Engineer will be made during the performance of the work. If ordered by the Engineer, the Contractor shall expose the drain as needed to facilitate inspection by the Engineer.

Final inspection by the Engineer will be made within twenty (20) days after he has received notice from the Contractor that the work is complete.

A.17. Acceptance By the Municipality

Before any work shall be accepted by the Municipality, the Contractor shall correct all deficiencies identified by the Engineer and the Contractor shall leave the site neat and presentable.

A.18. Warranty

The Contractor shall repair and make good any damages or faults in the drain that may appear within one (1) year after its completion (as dated on the Completion Certificate) as the result of the imperfect or defective work done or materials furnished if certified by the Engineer as being due to one or both of these causes; but nothing herein contained shall be construed as in any way restricting or limiting the liability of the Contractor under the laws of the Country, Province or Locality in which the work is being done. Neither the Completion Certificate nor any payment there under, nor any provision in the Contract Documents shall relieve the Contractor from his responsibility.

A.19. Termination of Contract By The Municipality

If the Contractor should be adjudged bankrupt, or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of his insolvency, or if he should refuse or fail to supply enough properly skilled workmen or proper materials after having received seven (7) days notice in writing from the Engineer to supply additional workmen or materials to commence or complete the works, or if he should fail to make prompt payment to Sub-Contractors, or for material, or labour, or persistently disregards laws, ordinances, or the instruction of the Engineer,



or otherwise be guilty of a substantial violation of the provisions of the Contract, then the Municipality, upon the certificate of the Engineer that sufficient cause exists to justify such action, may without prejudice to any other right or remedy, by giving the Contractor written notice, terminate the employment of the Contractor and take possession of the premises, and of all materials, tools and appliances thereon, and may finish the work by whatever method the Engineer may deem expedient but without delay or expense. In such a case, the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the Contract price will exceed the expense of finishing the work including compensation to the Engineer for his additional services and including the other damages of every name and nature, such excess shall be paid by the Contractor. If such expense will exceed such unpaid balance, the Contractor shall pay the difference to the Municipality. The expense incurred by the Municipality, as herein provided, shall be certified by the Engineer.

If the Contract is terminated by the Municipality due to the Contractor's failure to properly commence the works, the Contractor shall forfeit the certified cheque bid deposit and furthermore shall pay to the Municipality an amount to cover the increased costs, if any, associated with a new Tender for the Contract being terminated.

If any unpaid balance and the certified cheque do not match the monies owed by the Contractor upon termination of the Contract, the Municipality may also charge such expense against any money which may thereafter be due to the Contractor from the Municipality.

A.20. Tests

The cost for the testing of materials supplied to the job by the Contractor shall be borne by the Contractor. The Engineer reserves the right to subject any lengths of any tile or pipe to a competent testing laboratory to ensure the adequacy of the tile or pipe. If any tile supplied by the Contractor is determined to be inadequate to meet the applicable A.S.T.M. standards, the Contractor shall bear full responsibility to remove and/or replace all such inadequate tile in the Contract with tile capable of meeting the A.S.T.M. Standards.

A.21. Pollution

The Contractor shall keep their equipment in good repair. The Contractor shall refuel or repair equipment away from open water.

If polluted material from construction materials or equipment is caused to flow into the drain, the Contractor shall immediately notify the Ministry of the Environment, and proceed with the Ministry's protocols in place to address the situation.

A.22. Species and Risk

If a Contractor encounters a known Species at Risk as designated by the MNR or DFO, the Contractor shall notify the Engineer immediately and follow the Ministry's guidelines to deal with the species.

A.23. Road Crossings

This specification applies to all road crossings (Municipality, County, Regional, or Highway) where no specific detail is provided on the drawings or in the standard specifications. This specification in no way limits the Road Authority's regulations governing the construction of drains on their Road Allowance.

A.23.1. Road Occupancy Permit



Where applicable, the Contractor must submit an application for a road occupancy permit to the Road Authority and allow a minimum of five (5) working days for its review and issuance.

A.23.2. Road Closure Request and Construction Notification

The Contractor shall submit written notification of construction and request for road closure (if applicable) to the Road Authority and the Engineer for review and approval a minimum of five (5) working days prior to proceeding with any work on the road allowance. The Contractor shall be responsible for notifying all applicable emergency services, schools, etc. of the road closure or construction taking place.

A.23.3. Traffic Control

The Contractor shall supply flagmen, and warning signs and ensure that detour routes are adequately signed in accordance with no less than the minimum standards as set out in the Ontario Traffic Manual's Book 7.

A.23.4. Weather

No construction shall take place during inclement weather or periods of poor visibility.

A.23.5. Equipment

No construction material and/or equipment is to be left within three (3) metres of the travelled portion of the road overnight or during periods of inclement weather.

If not stated on the drawings, the road crossing shall be constructed by open cut method. Backfill from the top of the cover material over the subsurface pipe or culvert to the under side of the road base shall be Granular "B". The backfill shall be placed in lifts not exceeding 300mm in thickness and each lift shall be thoroughly compacted to 98% Standard Proctor. Granular "B" road base for County Roads and Highways shall be placed to a 450mm thickness and Granular "A" shall be placed to a thickness of 200mm. Granular road base materials shall be thoroughly compacted to 100% Standard Proctor.

Where the road surface is paved, the Contractor shall be responsible for placing HL-8 Hot Mix Asphalt patch at a thickness of 50mm or of the same thickness as the existing pavement structure. The asphalt patch shall be flush with the existing roadway on each side and without overlap.

Excavated material from the trench beyond 1.25 metres from the travelled portion or beyond the outside edge of the gravel shoulder may be used as backfill in the trench in the case of covered drains. The material shall be compacted in lifts not exceeding 300mm.

A.24. Laneways

All pipes crossing laneways shall be backfilled with material that is clean, free of foreign material or frozen particles and readily tamped or compacted in place unless otherwise specified. Laneway culverts on open ditch projects shall be backfilled with material that is not easily erodible. All backfill material shall be thoroughly compacted as directed by the Engineer.

Culverts shall be bedded with a minimum of 300mm of granular material. Granular material shall be placed simultaneously on each side of the culvert in lifts not exceeding 150mm in thickness and compacted to 95% Standard Proctor Density. Culverts shall be installed a minimum of 10% of the



culvert diameter below design grade with a minimum of 450mm of cover over the pipe unless otherwise noted on the Drawings.

The backfill over culverts and subsurface pipes at all existing laneways that have granular surfaces on open ditch and closed drainage projects shall be surfaced with a minimum of 300mm of Granular “B” material and 150mm of Granular “A” material. All backfill shall be thoroughly compacted as directed by the Engineer. All granular material shall be placed to the full width of the travelled portion.

Any settling of backfilled material shall be repaired by or at the expense of the Contractor during the warranty period of the project and as soon as required.

A.25. Fences

No earth is to be placed against fences and all fences removed by the Contractor shall be replaced by him in as good a condition as found. Where practical the Contractor shall take down existing fences in good condition at the nearest anchor post and roll it back rather than cutting the fence and attempting to patch it. The replacement of the fences shall be done to the satisfaction of the Engineer. Any fences found in such poor condition where the fence is not salvageable, shall be noted and verified with the Engineer prior to commencement of work.

Fences damaged beyond repair by the Contractor’s negligence shall be replaced with new materials, similar to those materials of the existing fence, at the Contractor’s expense. The replacement of the fences shall be done to the satisfaction of the Landowner and the Engineer.

Any fences paralleling an open ditch that are not line fences that hinder the proper working of the excavating machinery, shall be removed and rebuilt by the Landowner at his own expense.

The Contractor shall not leave fences open when he is not at work in the immediate vicinity.

A.26. Livestock

The Contractor shall provide each landowner with 48 hours notice prior to removing any fences along fields which could possibly contain livestock. Thereafter, the Landowner shall be responsible to keep all livestock clear of the construction areas until further notified. The Contractor shall be held responsible for loss or injury to livestock or damage caused by livestock where the Contractor failed to notify the Landowner, or through negligence or carelessness on the part of the Contractor.

A.27. Standing Crops

The Contractor shall be responsible for damages to standing crops which are ready to be harvested or salvaged along the course of the drain and access routes if the Contractor has failed to notify the Landowners 48 hours prior to commencement of the work on that portion of the drain.

A.28. Surplus Gravel

If as a result of any work, gravel or crushed stone is required and not all the gravel or crushed stone is used, the Contractor shall haul away such surplus material.

A.29. Iron Bars

The Contractor is responsible for the cost of an Ontario Land Surveyor to replace any iron bars that are altered or destroyed during the course of the construction.

A.30. Rip-Rap



Rip-rap shall be quarry stone rip-rap material and shall be the sizes specified in the Special Provisions. Broken concrete shall not be used as rip-rap unless otherwise specified.

A.31. Clearing, Grubbing and Brushing

This specification applies to all brushing where no specific detail is provided on the drawings or in the Special Provisions.

The Contractor shall clear, brush and stump trees from within the working area that interfere with the installation of the drainage system.

All trees, limbs and brush less than 150mm in diameter shall be mulched. Trees greater than 150mm in diameter shall be cut and neatly stacked in piles designated by the Landowners.

A.32. Restoration of Lawns

This specification applies to all lawn restoration where no specific detail is provided on the drawings or in the Special Provisions and no allowance for damages has been provided under Section 30 of the Drainage Act RSO 1990 to the affected property.

The Contractor shall supply “high quality grass seed” and the seed shall be broadcast by means of an approved mechanical spreader. All areas on which seed is to be placed shall be loose at the time of broadcast to a depth of 25mm. Seed and fertilizer shall be spread in accordance with the supplier’s recommendations unless otherwise directed by the Engineer. Thereafter it will be the responsibility of the Landowner to maintain the area in a manner so as to promote growth

END OF DIVISION



DIVISION B

Specifications for Open Drains



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DIVISION B – SPECIFICATIONS FOR OPEN DRAINS

B.1. Alignment

The drain shall be constructed in a straight line and shall follow the course of the present drain or water run unless noted on the drawings. Where there are unnecessary bends or irregularities on the existing course of the drain, the Contractor shall contact the Engineer before commencing work to verify the manner in which such irregularities or bends may be removed from the drain. All curves shall be made with a minimum radius of fifteen (15) metres from the centre line of the drain.

B.2. Profile

The Profile Drawing shows the depth of cuts from the top of the bank to the final invert of the ditch in metres and decimals of a metre, and also the approximate depth of excavated material from the bottom of the existing ditch to the final invert of the ditch. These cuts are established for the convenience of the Contractor; however, bench marks (established along the course of the drain) will govern the final elevation of the drain. The location and elevation of the bench marks are given on the Profile Drawing. Accurate grade control must be maintained by the Contractor during ditch excavation.

B.3. Excavation

The bottom width and the side slopes of the ditch shall be those shown on the drawings. If the channel cross-section is not specified it shall be a one metre bottom width with 1.5(h):1(v) side slopes. At locations along the drain where the cross section dimensions change, there shall be a transitional length of not less than 10:1 (five metre length to 0.5 metre width differential). Where the width of the bottom of the existing ditch is sufficient to construct the design width, then construction shall proceed without disturbing the existing banks.

Where existing side slopes become unstable, the Contractor shall immediately notify the Engineer. Alternative methods of construction and/or methods of protection will then be determined prior to continuing work.

Where an existing drain is being relocated or where a new drain is being constructed, the Contractor shall strip the topsoil for the full width of the drain, including the location of the spoil pile. Upon completion of levelling, the topsoil shall be spread to an even depth across the full width of the spoil.

An approved hydraulic excavator shall be used to carry out the excavation of the open ditch unless otherwise directed by the Engineer.

B.4. Excavated Material

Excavated material shall be placed on the low side of the drain or opposite trees and fences. The Contractor shall contact all Landowners before proceeding with the work to verify the location to place and level the excavated material.

No excavated material shall be placed in tributary drains, depressions, or low areas which direct water behind the spoil bank. The excavated material shall be placed and levelled to a maximum depth of 200 mm, unless instructed otherwise and commence a minimum of one (1) metre from the top of the bank. The edge of the spoil bank away from the ditch shall be feathered down to the existing ground; the edge of the spoil bank nearest the ditch shall have a maximum slope of 2(h):1(v). The material shall be levelled such that it may be cultivated with ordinary farm equipment without causing undue



hardship to the farm machinery and farm personnel. No excavated material shall cover any logs, brush, etc. of any kind.

Any stones or boulders which exceed 300mm in diameter shall be removed and disposed of in a location specified by the Landowner.

Where it is necessary to straighten any unnecessary bends or irregularities in the alignment of the ditch or to relocate any portion or all of an existing ditch, the excavated material from the new cut shall be used for backfilling the original ditch. Regardless of the distance between the new ditch and the old ditch, no extra compensation will be allowed for this work and must be included in the Contractor's lump sum price for the open work.

B.5. Excavation at Existing Bridge and Culvert Sites

The Contractor shall excavate the drain to the full specified depth under all bridges and to the full width of the structure. Temporary bridges may be carefully removed and left on the bank of the drain but shall be replaced by the Contractor when the excavation is complete. Permanent bridges must, if at all possible, be left intact. All necessary care and precautions shall be taken to protect the structure. The Contractor shall notify the Landowner if excavation will expose the footings or otherwise compromise the structural integrity of the structure.

The Contractor shall clean through all pipe culverts to the grade and width specified on the profile.

B.6. Pipe Culverts

All pipe culverts shall be installed in accordance with the standard detail drawings. If couplers are required, five corrugation couplers shall be used for up to and including 1200mm diameter pipes and 10 corrugation couplers for greater than 1200mm diameter pipes.

When an existing crossing is being replaced, the Contractor may backfill the new culvert with the existing native material that is free of large rocks and stones. The Contractor is responsible for any damage to a culvert pipe that is a result of rocks or stones in the backfill.

B.7. Rip-Rap Protection For Culverts

Quarry stone rip-rap shall be used as end treatment for new culverts and placed on geotextile filter material (Mirafi 160N or approved equal). The rip-rap shall be adequately keyed in along the bottom of the slope, and shall extend to the top of the pipe or as directed on the drawings. The maximum slope for rip-rap shall be 1(h):1(v) or as directed by the Engineer.

The Contractor shall be responsible for any defects or damages that may develop in the rip-rap or the earth behind the rip-rap that the Engineer deems to have been fully or partially caused by faulty workmanship or materials.

B.8. Clearing, Grubbing and Mulching

Prior to excavation, all trees, scrub, fallen timber and debris shall be removed from the side slopes of the ditch and for such a distance on the working side so as to eliminate any interference with the construction of the drain or the spreading of the spoil. The side slopes shall be neatly cut and cleared flush with the slope whether or not they are affected directly by the excavation. With the exception of large stumps causing damage to the drain, the side slopes shall not be grubbed. All other cleared areas shall be grubbed and the stumps put into piles for disposal by the Landowner.



All trees or limbs 150mm or larger, that is necessary to remove, shall be cut, trimmed and neatly stacked in the working width for the use or disposal by the Landowner. Brush and limbs less than 150mm in diameter shall be mulched. Clearing, grubbing and mulching shall be carried out as a separate operation from the excavation of the ditch, and shall not be completed simultaneously at the same location.

B.9. Tributary Tile Outlets

All tile outlets in existing ditches shall be marked by the Landowner prior to excavation. The Contractor shall guard against damaging the outlets of tributary drains. Any tile drain outlets that were marked or noted on the drawings and are subsequently damaged by the Contractor shall be repaired by the Contractor at his expense. The Landowner shall be responsible for repairs to damaged tile outlets that were not marked.

B.10. Seeding

The side slopes where disturbed shall be seeded using an approved grass seed mixture. The grass seed shall be applied the same day as the excavation of the open ditch.

Grass seed shall be fresh, clean and new crop seed, meeting the requirements of the MTO and composed of the following varieties mixed in the proportion by weight as follows:

- 55% Creeping Red Fescue
- 40% Perennial Rye Grass
- 5% White Clover

Grass seed shall be applied at the rate of 100 kg/ha.

B.11. Hydro Seeding

The areas specified in the contract document shall be hydro seeded and mulched upon completion of construction in accordance with O.P.S.S. 572.

B.12. Hand Seeding

Placement of the seed shall be of means of an approved mechanical spreader.

B.13. Completion

At the time of completion and final inspection, all work in the Contract shall have the full dimensions and cross-sections specified without any allowance for caving of banks or sediment in the ditch bottom.

END OF DIVISION



DIVISION C

Specifications for Tile Drains



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DIVISION C – SPECIFICATIONS FOR TILE DRAINS

C.1. Pipe Materials

Concrete Tile

Concrete drain tile shall conform to the requirements of the most recent A.S.T.M. specification for Heavy-Duty Extra Quality drain tile. All tile with diameters less than 600mm shall have a pipe strength of 1500D. All tile with diameters 600mm or larger shall have a pipe strength of 2000D.

All tile furnished shall be subject to the approval of the Engineer. All rejected tile are to be immediately removed from the site.

High Density Polyethylene (HDPE) Pipe

All HDPE pipe shall be dual-wall corrugated drainage pipe with a smooth inner wall. HDPE pipe shall have a minimum stiffness of 320 kPa at 5% deflection.

Unless otherwise noted, all sealed HDPE pipe shall have a water tight gasketed bell and spigot joining system meeting the minimum requirements of CSA B182.8. Perforated HDPE pipe shall have a soil tight joining system, and shall be enveloped in non-woven geotextile filter sock.

C.2. Alignment

The Contractor shall contact the Engineer to establish the course of the drain. Where an existing drain is to be removed and replaced by the new drain, or where the new drain is to be installed parallel to an existing drain, the Contractor shall locate the existing drain (including repairing damaged tile caused by locating) at intervals along the course of the drain. The costs of locating shall be included in the tender price.

The drain shall run in as straight a line as possible throughout its length, except that at intersections of other watercourses or at sharp corners, it shall run on a curve of at least 15 metres radius. The new tile drain shall be constructed at an offset from and parallel with any ditch or defined watercourse in order that fresh backfill in the trench will not be eroded by the flow of surface water.

The Contractor shall exercise care not to disturb any existing tile drain or drains which parallel the course of the new drain, particularly where the new and existing tile act together to provide the necessary capacity. Where any such existing drain is disturbed or damaged, the Contractor shall perform the necessary repair at his expense.

C.3. Profile

Benchmarks have been established along the course of the drain which are to govern the elevations of the drain. The location and elevations of the benchmarks are shown on the drawings. Tile is to be installed to the elevation and grade shown on the profiles. Accurate grade control must be maintained by the Contractor at all times.

When installing a drain towards a fixed point such as a bore pipe, the Contractor shall uncover the pipe and confirm the elevation a sufficient distance away from the pipe in order to allow for any necessary minor grade adjustments to be made.



C.4. Excavation

Wheel machine

Unless otherwise specified, all trenching shall be carried out with a wheel machine approved by the Engineer. The wheel machine shall shape the bottom of the trench to conform to the outside diameter of the pipe. The minimum trench width shall be equal to the outside diameter of the pipe plus 100mm on each side of the pipe, unless otherwise specified. The maximum trench width shall be equal to the outside diameter of the pipe plus 300mm on each side of the pipe, unless otherwise specified.

Scalping

Where the depths of cuts in isolated areas along the course of the drain as shown on the profile exceed the capability of the Contractor's wheel machine, he shall lower the surface grade in order that the wheel machine may trench to the correct depth. Topsoil is to be stripped over a sufficient width that no subsoil will be deposited on top of the topsoil. Subsoil will then be removed to the required depth and piled separately. Upon completion, the topsoil will then be replaced to an even depth over the disturbed area. The cost for this work shall be included in his tender price.

Excavator

Where the use of an excavator is used in-lieu of a wheel machine, the topsoil shall be stripped and replaced in accordance with Item C.4.2. All tile shall be installed on 19mm clear crushed stone bedding placed to a minimum depth of 150mm which has been shaped to conform to the bottom of the pipe. The Contractor shall include the costs of this work in his tender price.

C.5. Installation

Concrete Tile

The tile is to be laid with close joints and in regular grade and alignment in accordance with the drawings. The tiles are to be bevelled, if necessary to ensure close joints. The inside of the tile is to be kept clear when laid. The sides of the tile are to be supported by partial filling of the trench (blinding) prior to inspection by the Engineer. No tile shall be backfilled until inspected by the Engineer unless otherwise permitted by the Engineer. The tile shall be backfilled such that a sufficient mound of backfill is placed over the trench to ensure that no depression remains after settling occurs in the backfill.

Where a tile connects to a catch basin or similar structure, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone under areas backfilled from the underside of the pipe to undisturbed soil. Where a tile drain passes through a bore pit, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone from the underside of the pipe down to undisturbed soil with the limits of the bore pit.

The Contractor shall supply and wrap all concrete tile joints with Mirafi 160N geotextile filter material as part of this contract. The width of the filter material should be:

- 300mm wide for tile sizes 150mm diameter to 350mm diameter.
- 400mm wide for tile sizes 400mm diameter to 750mm diameter.
- 500mm wide for tile sizes larger than 750mm diameter.

The filter material shall completely cover the tile joint and shall have a minimum overlap of 300mm. The type of filter material shall be.



HDPE Pipe

HDPE pipe shall be installed using compacted Granular 'A' bedding or 19mm clear crushed stone bedding from 150mm below the pipe to 300mm above the pipe. All granular material shall be compacted using a suitable mechanical vibratory compactor. Granular bedding and backfill shall be placed in lifts not exceeding 300mm and compacted to at least 95% Standard Proctor Maximum Dry Density (SPMDD).

Where a pipe connects to a catch basin or similar structure, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone under areas backfilled from the underside of the pipe to undisturbed soil. Where a pipe passes through a bore pit, the Contractor shall include in his tender price for the supply and placement of compacted Granular 'A' bedding or 19mm clear crushed stone from the underside of the pipe down to undisturbed soil with the limits of the bore pit.

As determined by the Engineer, unsuitable backfill material must be hauled off-site by the Contractor and Granular "B" shall be used as replacement backfill material.

C.6. Trench Crossings

The Contractor shall not cross the backfilled trench with any construction equipment or vehicles, except by one designated crossing location on each property. The Contractor shall ensure that the bedding and backfill material at this designated crossing location is properly placed and compacted so as to adequately support the equipment and vehicles that may cross the trench. The Contractor may undertake any other approved work to ensure the integrity of the tile at the crossing location. The Contractor shall ensure that no equipment or vehicles travel along the length of the trench. The Contractor shall be responsible for any damage to the new tile caused by the construction of the drain.

C.7. Outlet Protection

A tile drain outlet into a ditch shall be either HDPE pipe or corrugated steel pipe and shall include a hinged grate for rodent protection. The maximum spacing between bars on the rodent grate shall be 40mm. All corrugated steel outlet pipes shall be bevelled at the end to generally conform to the slope of the ditch bank.

Quarry stone rock rip-rap protection and geotextile filter material (Mirafi 160N), shall be installed around the outlet pipe and extended downstream a minimum distance of three metres, unless otherwise specified. The protection shall extend to the top of the backfilled trench and below the pipe to 300 mm under the streambed. The protection shall also extend 600mm into undisturbed soil on either side of the backfilled trench. In some locations, rip-rap may be required on the bank opposite the outlet.

Where the outlet occurs at the upper end of an open ditch, the rip-rap protection will extend all around the end of the ditch and to a point 800mm downstream on either side. Where heavy overflow is likely to occur, sufficient additional rip-rap and filter material shall be placed as directed by the Engineer to prevent the water cutting around the protection.

C.8. Catch Basins and Junction Boxes

Unless otherwise noted, catch basins shall be in accordance with OPSD 705.010 and 705.030. The catch basin grate shall be a "Birdcage" type substantial steel grate, removable for cleaning and shall be inset into a recess provided around the top of the structure. The grate shall be fastened to the catch basin with bolts into the concrete. Spacing of bars on grates for use on 600mmX600mm



structures shall be 65mm centre to centre. Spacing of bars on grates for use on structures larger than 600mmX600mm shall be 90mm.

All catch basins shall be backfilled with compacted Granular 'A' or 19mm clear crushed stone placed to a minimum width of 300mm on all sides. If settling occurs after construction, the Contractor shall supply and place sufficient granular material to maintain the backfill level flush with adjacent ground. The riser sections of the catch basin shall be wrapped with filter cloth.

Quarry stone rip-rap protection shall be placed around all catch basins and shall extend a minimum distance of one (1) metre away from the outer edge of each side of the catch basin, and shall be placed so that the finished surface of the rip-rap is flush with the existing ground.

If there are no existing drains to be connected to the catch basin at the top end of the drain, a plugged tile shall be placed in the upstream wall with the same elevations as the outlet tile.

Junction boxes shall have a minimum cover over the lid of 450mm.

The Contractor shall include in his tender price for the construction of a berm behind all ditch inlet structures. The berm shall be constructed of compacted clay keyed 300mm into undisturbed soil. The top of the spill way of the earth berm shall be the same elevation as the high wall of the ditch inlet catch basin. The earth berm shall be covered with 100mm depth of topsoil and seeded with an approved green seed mixture. The Contractor shall also include for regrading, shaping and seeding of road ditches for a maximum of 15 metres each way from all catch basins.

The Contractor shall clean all catch basin sumps after completion of the drain installation. Catch basin markers shall be placed beside each catch basin.

C.9. Tributary Drains

Any tributary tile encountered in the course of the drain is to be carefully taken up by the Contractor and placed clear of the excavated earth. If the tributary drains encountered are clean or reasonably clean, they shall be connected into the new drain in accordance with the typical tile drain connection detail. Tributary tile drain connections into the new drain shall be made using high density polyethylene agricultural drain tubing installed on and backfilled with 19mm clear crushed stone. All tile drain connections into the new drain shall be either a cored hole with an insert coupler or a manufactured tee.

Where the existing drains are full of sediment, the decision to connect the tributary drain to the new drain shall be left to the Engineer. The Contractor shall be paid for each tributary drain connection as outlined in the Form of Tender and Agreement.

The Contractor shall be responsible for all tributary tile connections for a period of one year from the date of the Completion Certificate. After construction, any missed tile connections required to be made into the new drain shall be paid at the same rate as defined in the Form of Tender and Agreement. The Contractor will have the option to make any subsequent tile connections or have the Municipality make the required connections and have the cost of which deducted from the holdback.

Where an open ditch is being replaced by a new tile drain, existing tile outlets entering the ditch from the side opposite the new drain shall be extended to the new drain.

Where the Contractor is required to connect an existing tile which is not encountered in the course of the drain, the cost of such work shall constitute an extra to the contract.



C.10. Clearing, Grubbing and Mulching

The Contractor shall clear, brush and stump trees from within the working area.

All trees or limbs 150mm or larger, that is necessary to remove, shall be cut, trimmed and neatly stacked in the working width for the use or disposal by the Landowner. Brush and limbs less than 150mm in diameter shall be mulched.

Clearing, grubbing and mulching shall be carried out as a separate operation from installing the drain, and shall not be completed simultaneously at the same location.

C.11. Roads and Laneway Sub-Surface Crossings

All roads and laneway crossings may be made with an open cut. The Contractor may use original ground as backfill to within 600mm of finished grade only if adequate compaction and if the use of the original ground backfill has been approved beforehand by the Engineer.

C.12. Filling In Existing Ditches

The Contractor shall backfill the ditch sufficiently for traversing by farm equipment. If sufficient material is available on-site to fill in the existing ditch, the topsoil shall be stripped and the subsoil shall be bulldozed into the ditch and the topsoil shall then be spread over the backfilled waterway. The Contractor shall ensure sufficient compaction of the backfill and if required, repair excess settlement up to the end of the warranty period.

C.13. Construction of Grassed Waterways

Where the Contractor is required to construct a grassed waterway, the existing waterway shall be filled in, regraded, shaped and a seed bed prepared prior to applying the grass seed. The grass seed shall be fresh, clean and new crop seed, meeting the requirements of the MTO.

- 55% Creeping Red Fescue
- 15% Perennial Rye Grass
- 27% Kentucky Bluegrass
- 3% White Clover

Grass seed shall be applied at the rate of 100 kg/ha.

C.14. Unstable Soil

The Contractor shall immediately contact the Engineer if unstable soil is encountered. The Engineer shall, after consultation with the Contractor, determine the action necessary and a price for additions or deletions shall be agreed upon prior to further drain installation.

C.15. Rocks

The Contractor shall immediately contact the Engineer if boulders of sufficient size and number are encountered such that the Contractor cannot continue trenching with a wheel machine. The Engineer shall determine the action necessary and a price for additions or deletions shall be agreed upon prior to further drain installation.



If only scattered large stone or boulders are removed on any project, the Contractor shall either excavate a hole to bury same adjacent to the drain, or he shall haul the stones or boulders to a location designated by the Landowner.

C.16. Broken or Damaged Tile

The Contractor shall remove and dispose of all broken (existing or new), damaged or excess tile off site.

C.17. Recommended Practice For Construction of Sub-Surface Drainage Systems

Drainage Guide for Ontario, Ministry of Agriculture, Food and Rural Affairs, Publication 29 and its amendments, dealing with the construction of Subsurface Drainage Systems, shall be the guide to all methods and materials to be used in the construction of tile drains except where superseded by other Specifications of the Contract.

END OF DIVISION



SPECIAL PROVISIONS

Mitchell Municipal Drain



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Special Provisions means special directions containing requirements particular to the work not adequately provided for by the standard or supplemental specifications. Special provisions shall take precedence and govern over any standard or supplemental specification.

1.0 GENERAL

The Contractor shall notify the Landowner, the Drainage Superintendent, the County of Brant Road authority and the Engineer 48 hours prior to construction.

The Contractor shall arrange a pre-construction meeting and shall invite the Landowners on whose property work will take place, the Engineer, the Drainage Superintendent and road authority for the County of Brant.

The Contractor shall verify the location of the new drainage systems with the Engineer and Landowners prior to construction.

The Contractor shall check and verify all dimensions and elevations and report any discrepancies to the Engineer prior to proceeding with the work.

The Contractor shall be responsible for settlement within the warranty period.

The Contractor shall notify all emergency services and local district school boards of any road closures.

Detour routes and plans shall be provided to all relevant local authorities in accordance with their respective notification protocols (if applicable).

The Contractor shall be responsible to arrange all traffic control signals, signs and devices that are required for safe and proper traffic management during the installation of the drainage system. The Contractor shall contact the County of Brant for specific local procedures, guidelines, and timelines. Traffic control shall meet the standards of Book 7 of the Ontario Traffic Manual.

2.0 UTILITIES

All utilities shall be located and uncovered in the affected areas by the Contractor prior to construction.

The locations and elevations of all utilities shown on the drawings are approximate locations. Actual locations and elevations of all utilities must be verified by the Contractor prior to construction.

The Contractor shall arrange to have a representative of the utility owner on site during construction if it is a requirement by the utility owner.

3.0 WORKING AREA AND ACCESS

Access to the working area shall be designated by the access locations highlighted on the attached set of plans or by the Landowners where no access route is defined.

The working area shall be in accordance with the following average widths. The working width may be used for construction purposes including spreading or transporting excavated soil and supplying construction materials to the site.



| Drain Segment and Station Range | Property Roll No. | Working side | Average Working Width for Construction | Average Working Width for Future Maintenance |
|--|-------------------|---------------------------|--|--|
| Main Drain (Open) | | | | |
| 0+000 to 0+136 | 10-003 | North | 12m | 10m |
| 0+136 to 0+161 <i>Low Level Crossing Installation</i> | 10-003 | North & South | Crossing Footprint Plus 10m outward offset | 10m |
| 0+161 to 0+732 | 10-003 | North | 12m | 10m |
| 0+732 to 0+888 | 10-188 | East | 12m | 10m |
| 0+924 to 1+074 | 10-005-01 | East | 12m | 10m |
| 1+074 to 1+776 | 10-005 | As Specified by Landowner | 12m | 10m |
| 1+776 to 1+974 | 10-004 | As Specified by Landowner | 12m | 10m |
| 1+974 to 2+018 | 10-003 | North | 12m | 10m |
| 2+038 to 2+656 | 10-007 | As Specified by Landowner | 12m | 10m |
| 2+656 to 3+042 | 10-008-05 | As Specified by Landowner | 12m | 10m |
| Branch 'C' | | | | |
| 0+000 to 0+275 | 10-003 | West | 12m | 10m |
| 0+275 to 1+023 | 10-002 | South-West | 12m | 10m |
| Branch 'D' | | | | |
| 0+000 to 0+217 | 10-007 | North | 12m | 10m |
| 0+217 to 0+384 | 10-007 | South | 12m | 10m |
| 0+384 to 0+850 | 10-008-05 | South | 12m | 10m |

The working area shall be an average width of 25m for construction purposes and 10m for future maintenance purposes for Branch 'A'.



4.0 CLEARING BRUSHING AND MULCHING

The Contractor shall clear, brush and mulch trees from within the working area that interfere with the construction of the drainage system. The Contractor shall not clear all trees within the working area unless the full working width in a specific section is required for the installation of the drain and unless the Engineer has authorized the full clearing of the trees.

Clearing and brushing shall be done prior to the construction of the drain.

Trees and branches greater than 150mm in diameter shall be cut into lengths no greater than four metres and placed in nearby stacks designated by the Landowner.

Trees removed from road right-of-ways shall be mulched or disposed of offsite by the Contractor.

5.0 EROSION AND SEDIMENT CONTROL

The Contractor shall construct a rock check dam at Main Drain (Open) Sta. 0+010 in accordance with the "Typical Rock Check Dam Detail" found in the attached set of plans. The Contractor shall monitor and maintain the rock check dam regularly during the duration of construction, and specifically before predicted rainfall events, and after rainfall events.

After construction of the drainage systems are complete, the Contractor shall spread the rock rip-rap from the rock check dam along the ditch and side slopes, as per the engineer's instructions.

If dewatering of the ditch is required, the outlet for the dewatering system shall either be into a well vegetated area adjacent to the ditch within the working corridor, or downstream of the isolated area to be worked on.

Fish screens shall be placed over any pump inlets at all times during use.

Staging or stockpiling of equipment and/or materials shall be done within the working corridor but on higher ground outside of possible floodplains or flow paths, wherever possible.

The Contractor shall ensure all erosion and sediment control measures are inspected and secure prior to any anticipated rainfall events, and shall once again be inspected after the event.

All erosion and sediment control measures shall be placed prior to construction, and be inspected daily, and shall remain in place until all construction activities are completed.

6.0 TOPSOIL STRIPPING

The contractor shall strip topsoil from the side slopes and streambed of the ditches prior to the ditch cleanouts/excavations. The topsoil shall later be spread back on the side slopes of the disturbed ditches.

For the construction of Branch 'A', the Contractor shall strip the topsoil for a width equal to the top width of the trench where the drain is installed by means of an approved hydraulic excavator (due to poor soil conditions). Where the drain is to be installed by means of an approved wheel trencher, the Contractor shall strip the topsoil for a minimum of four metres, centred on the trench.

The Contractor shall stockpile the topsoil and later spread it over the backfilled trench. The Contractor shall ensure that the topsoiled trench is left in a condition that the Landowner can perform final restoration using nothing more than farm equipment.



7.0 OPEN DITCH EXCAVATION

An approved hydraulic excavator shall be used to carry out the excavation of the open ditches. The Main Drain (Open) shall have a 1.2m bottom width, while Branch 'C' and Branch 'D' shall have 900mm bottom widths. All bottom widths shall be parabolic in shape. The side slopes shall be a 1.5H:1V or flatter for all open ditch works.

8.0 EXCAVATED MATERIAL

Excavated material shall be spread on the working side to a maximum depth of 200mm in accordance with the typical open ditch cleanout detail included in the attached drawing set.

9.0 PIPE AND INSTALLATION

9.1 Concrete Field Tile

An approved wheel trencher shall be used to install the concrete field tile whenever possible.

All concrete tile shall be Heavy-Duty Extra Quality Concrete Drain Tile 2000D.

Concrete field tile installed by means of a wheel machine shall be backfilled using suitable native material. The backfill shall not be compacted but a sufficient mound shall be left over the trench by the Contractor to allow for settlement flush with adjacent lands.

Concrete field tile installed by means of an approved hydraulic excavator shall be installed using 19mm crushed stone bedding from a minimum of 150mm below the pipe to the springline of the pipe. Suitable native material shall be used as backfill from the springline to the underside of the topsoil.

The Contractor shall supply and wrap all concrete joints with geotextile filter material. The width of the filter material shall be 400mm wide with 400mm overlap.

The filter material shall completely cover the tile joint.

The Contractor shall be responsible for all trench settlement within the warranty period.

9.2 High Density Polyethylene Pipe (HDPE)

All HDPE pipe shall be CSA B182.8 with soil tight (couplers) jointing systems.

All HDPE pipe shall be installed using 19mm crushed stone bedding (or approved equivalent) from a minimum of 150mm below the pipe to 150mm above the pipe. Suitable native material shall be used as backfill from 150mm above the pipe to the underside of the topsoil.

The Contractor shall be responsible for all trench settlement within the warranty period.

9.3 Poor Soil Conditions

The Contractor shall submit a unit price for installation of the pipe per the detail on wrapped crushed stone bedding as a provisional item. The provisional amount for installation on wrapped crushed stone bedding shall include the supply and installation of all additional labour, equipment and materials required for the installation of the pipe by this method.



If poor soil conditions are encountered, the Contractor shall install the pipe in accordance with the detail for wrapped crushed stone bedding and shall be entitled to the provisional tender amount, in addition to the tendered standard installation price. The Contractor shall be paid for the actual lengths installed in this condition.

10.0 EXISTING DRAINS/TILE CONNECTIONS

The Contractor shall locate the existing drains prior to the installation of the new drainage systems.

The Contractor shall make all tributary tile drain connections.

The Contractor shall be responsible for all tile connections for a period of one year after the issuance of the completion certificate. Tile connections required to be made within this warranty period shall be made at the expense of the Contractor. After construction, the Contractor will be given the option to make any subsequent tile connections or have the County make said connections and have the costs of which deducted from the holdback.

The Contractor shall supply all necessary materials to complete the connections of the existing drains to the new drain. The type of materials used to make the tributary drain connections shall be verified with the engineer.

All existing drains cut off during the installation of the new drainage system that will be connected to the new drainage system shall be flagged or marked by the Contractor prior to the connection being made.

11.0 CATCH BASINS

All catch basins shall be precast concrete catch basins and shall have a 300mm sump.

All catch basin grates shall be fastened to the new catch basin and shall be hot dipped galvanized bird cage grates. Catch basin marker signs shall be erected at all catch basins.

All existing catch basins that are to be removed shall be disposed of offsite by the Contractor.

The catch basin grate elevations shall be set to the satisfaction of the Engineer. Lifts shall be placed by the Contractor on all catch basins if necessary to achieve the desired elevation when field setting the structures.

All catch basins shall be installed using 19mm crushed stone bedding from 150mm below the structure to 150mm above the top of the highest pipe entering or exiting the structure. Structures on private property shall be backfilled using approved native material up to the underside of the topsoil layer. All backfill material shall be placed and thoroughly compacted evenly around each structure in lifts not exceeding 300mm to minimize settlement around the structures.

The Contractor shall be responsible for all settlement around catch basins. Should the area around the catch basin settle after construction, the Contractor shall be responsible for providing additional rip-rap required so that the top of the rip-rap is flush with the surrounding ground.

The Contractor shall place quarry stone rip-rap material around all sides of the catch basins and shall be placed on geotextile filter material in accordance with the attached set of drawing plans.



All holes for catch basin pipe connections to be cored by the manufacturer. All pipes entering or exiting a catch basin or shall be installed such that the face of the pipe is flush with the inside wall of the structure.

The Contractor shall be responsible to repair or reapply mortar for all mortared connections into any catch basin for a period of one year after the completion certificate has been issued.

12.0 SEEDING

The Contractor shall supply and place an approved hand seed mixture along the disturbed side slopes of the open ditches (OPS 803 – Lowland Mix).

All seed shall be applied using the manufacturer’s application instructions and recommendations.

13.0 PLUNGE POOL AND RIP-RAP

The Contractor shall place rip-rap protection in accordance with the Plunge Pool detail included in the drawing set at Main Drain (Open) Sta. 1+350.

All stone rip-rap material shall be quarry stone 150mm to 300mm diameter and placed to a depth of 450mm, unless otherwise noted. All rip-rap material shall be placed on geo-textile filter material.

14.0 CULVERT INSTALLATION

The Contractor shall install the culverts in accordance with the attached details.

All existing culverts that are removed shall be disposed of offsite by the Contractor.

15.0 LOW LEVEL CROSSING CONSTRUCTION

Construction of the crossing shall occur during low flow conditions, and the Contractor shall implement a flow diversion scheme to keep the working area free of excess water.

If the Contractor expects poor weather before completing construction, the Contractor shall make sure to prepare the construction site so to minimize the amount of sediment transport during the rainfall event.

The Contractor shall remove the existing culvert and dispose of it offsite.

The crossing shall be constructed in accordance with the attached low level crossing detail.

The Contractor shall supply all necessary materials and equipment necessary to construct the crossing and crossing approaches.

The Contractor shall supply and spread an approved grass seed mixture over all disturbed side slopes where rip-rap is not placed.

16.0 BANK REPAIR

In areas where high levels of erosion have occurred, the Contractor shall reshape the sideslopes and the banks to match the “Typical Proposed Drain Section” detail included in the drawing set, as directed by the Engineer. The Contractor shall then place geo-textile filter material and stone riprap for long term bank stabilization as required by the Engineer.



17.0 DRUMBO ROAD DITCH CLEANOUT

The Contractor shall use an approved hydraulic mini excavator or equivalent suitable equipment approved by the Engineer to cleanout the existing open ditch through the 3.7m span x 2.5m rise CSPA culvert at the Drumbo Road crossing on the Main Drain (Open).

Extra care shall be used by the Contractor to avoid any damage to the existing culvert during the cleanout.

Excavated material shall be disposed of offsite by the Contractor.

18.0 NITH ROAD CULVERT INSTALLATION & CROSSING

18.1 Notice

The Contractor shall notify the Engineer and County of Brant road authority a minimum of 48 hours prior to the scheduled road crossing.

The Contractor shall notify all emergency services and local district school boards of the road enclosure.

Detour routes and plans shall be provided to all relevant local authorities in accordance with their respective notification protocols.

18.2 Traffic Control

The Contractor shall be responsible to arrange all traffic control signals, signs and devices that are required for safe and proper traffic management during the installation of the drainage system. The Contractor shall contact the County of Brant for specific local procedures, guidelines, and timelines. Traffic control shall meet the standards of Book 7 of the Ontario Traffic Manual.

18.3 Removals

The existing 1200mm diameter CSP shall be removed and disposed of offsite by the Contractor.

18.4 Pipe Installation

The Contractor shall install the proposed 2000mm diameter CSP culvert by means of the open cut method in accordance with the attached set of drawing plans, using OPSD specifications where noted.

18.5 Road Restoration

The Contractor shall remove and dispose of offsite, all excavated material unsuitable for use as backfill.

The Contractor shall grade the road ditches to the ditch. Any areas disturbed within the Road Right-of-Way shall be topsoiled and hydroseeded with an approved grass seed mixture (OPS 803 – Standard Roadside Mix).

NOTES:

- THIS MAP WAS CREATED USING BRANT COUNTY, OXFORD COUNTY AND REGIONAL MUNICIPALITY OF WATERLOO GEOGRAPHIC INFORMATION SYSTEM DIGITAL DATA. THIS MAP IS A SECONDARY PRODUCT WHICH HAS NOT BEEN VERIFIED BY BRANT COUNTY, OXFORD COUNTY OR THE REGIONAL MUNICIPALITY OF WATERLOO.
- THE CONTOURS WERE CREATED USING IMAGERY DERIVED DIGITAL DATA (2015) FROM LAND INFORMATION ONTO.


BENCHMARK DESCRIPTIONS

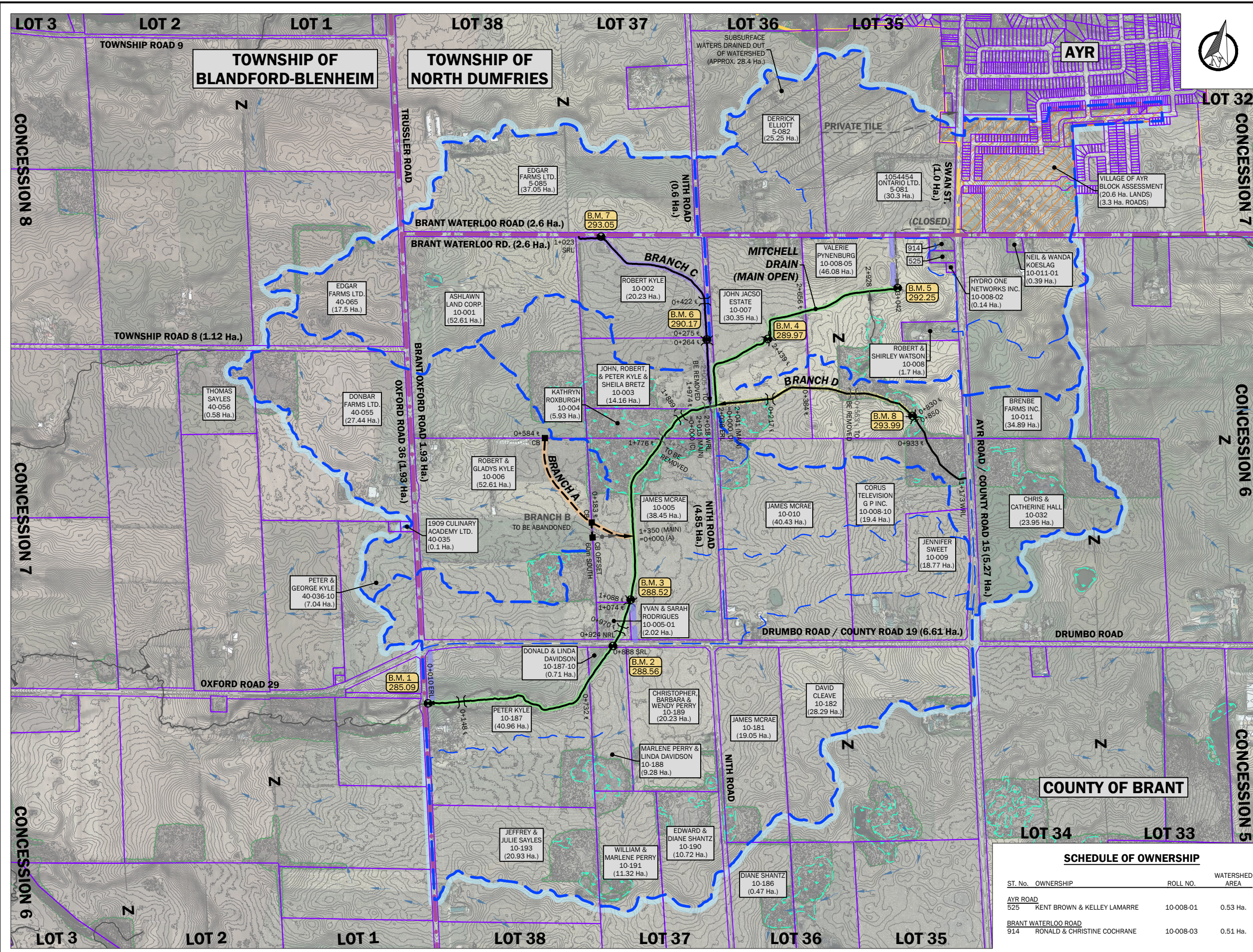
- BENCHMARK No. 1** ELEV.=285.09
TOP CENTRE UPSTREAM END OF CONC BOX CULVERT AT STA. 0+013 (MAIN)
- BENCHMARK No. 2** ELEV.=288.56
TOP DOWNSTREAM END OF 3.7m X 2.5m CSPA CULVERT AT STA. 0+896 (MAIN)
- BENCHMARK No. 3** ELEV.=288.52
TOP UPSTREAM END OF 1400mmØ CONC CULVERT AT STA. 1+095 (MAIN)
- BENCHMARK No. 4** ELEV.=289.97
TOP DOWNSTREAM END OF 1000mmØ CSP CULVERT AT STA. 2+435 (MAIN)
- BENCHMARK No. 5** ELEV.=292.25
TOP OF 750mmØ HDPE OUTLET PIPE (MAIN DRAIN CLOSED) AT STA. 3+042 (MAIN)
- BENCHMARK No. 6** ELEV.=290.17
TOP UPSTREAM END OF 900mmØ CSP CULVERT AT STA. 0+268 (BRANCH C)
- BENCHMARK No. 7** ELEV.=293.05
TOP DOWNSTREAM END OF 400mmØ CSP CULV 9m NORTH OF STA. 0+932 (BR. C)
- BENCHMARK No. 8** ELEV.=293.99
TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D)

LEGEND

- LOT/CONCESSION LINE
- PROPERTY LINE
- URBAN BOUNDARY
- TOWNSHIP BOUNDARY
- MAJOR WATERSHED BOUNDARY
- MINOR WATERSHED BOUNDARY
- WETLAND LIMIT
- CONSTRUCTION/MAINTENANCE ACCESS
- BENCHMARK LOCATION
- BENCHMARK No.
- BENCHMARK ELEVATION
- LANDOWNER NAME(S)
- ASSESSMENT ROLL No. (ABBREVIATED)
- AREA WITHIN WATERSHED

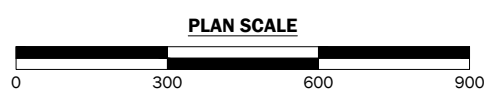
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- DRAIN NAME** → OPEN DRAIN WITH CROSSING AND FLOW DIRECTION
 - DRAIN NAME** → CLOSED DRAIN WITH CATCH BASIN, MANHOLE AND FLOW DIRECTION
 - OVERLAND FLOW PATH
- PROPOSED FEATURES:**
- DRAIN NAME** → OPEN DRAIN WITH NEW CROSSING AND FLOW DIRECTION
 - DRAIN NAME** → CLOSED DRAIN WITH CATCH BASIN, MANHOLE AND FLOW DIRECTION

| | | | |
|---|----------|----------------------------|----------|
|  | 3 | REPORT SUBMISSION | 24-08-16 |
| | 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
| | 1 | ON-SITE MEETING | 22-12-13 |
| No. | REVISION | DATE (YY-MM-DD) | |



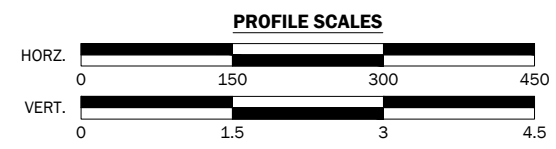
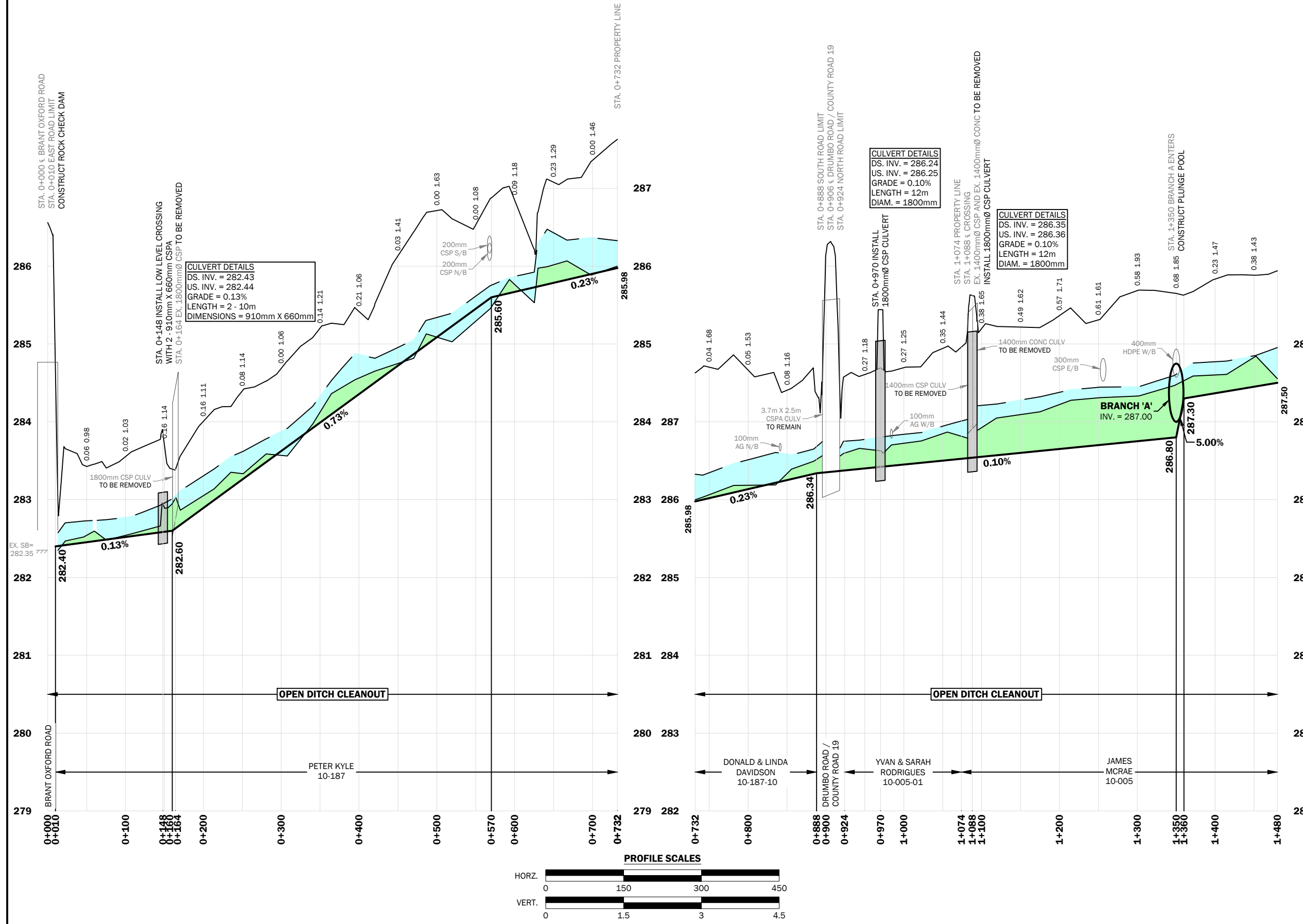
SCHEDULE OF OWNERSHIP

| ST. No. | OWNERSHIP | ROLL NO. | WATERSHED AREA |
|----------------------------|-----------------------------|-----------|----------------|
| AYR ROAD 525 | KENT BROWN & KELLEY LAMARRE | 10-008-01 | 0.53 Ha. |
| BRANT WATERLOO ROAD 914 | RONALD & CHRISTINE COCHRANE | 10-008-03 | 0.51 Ha. |



BENCHMARK DESCRIPTIONS

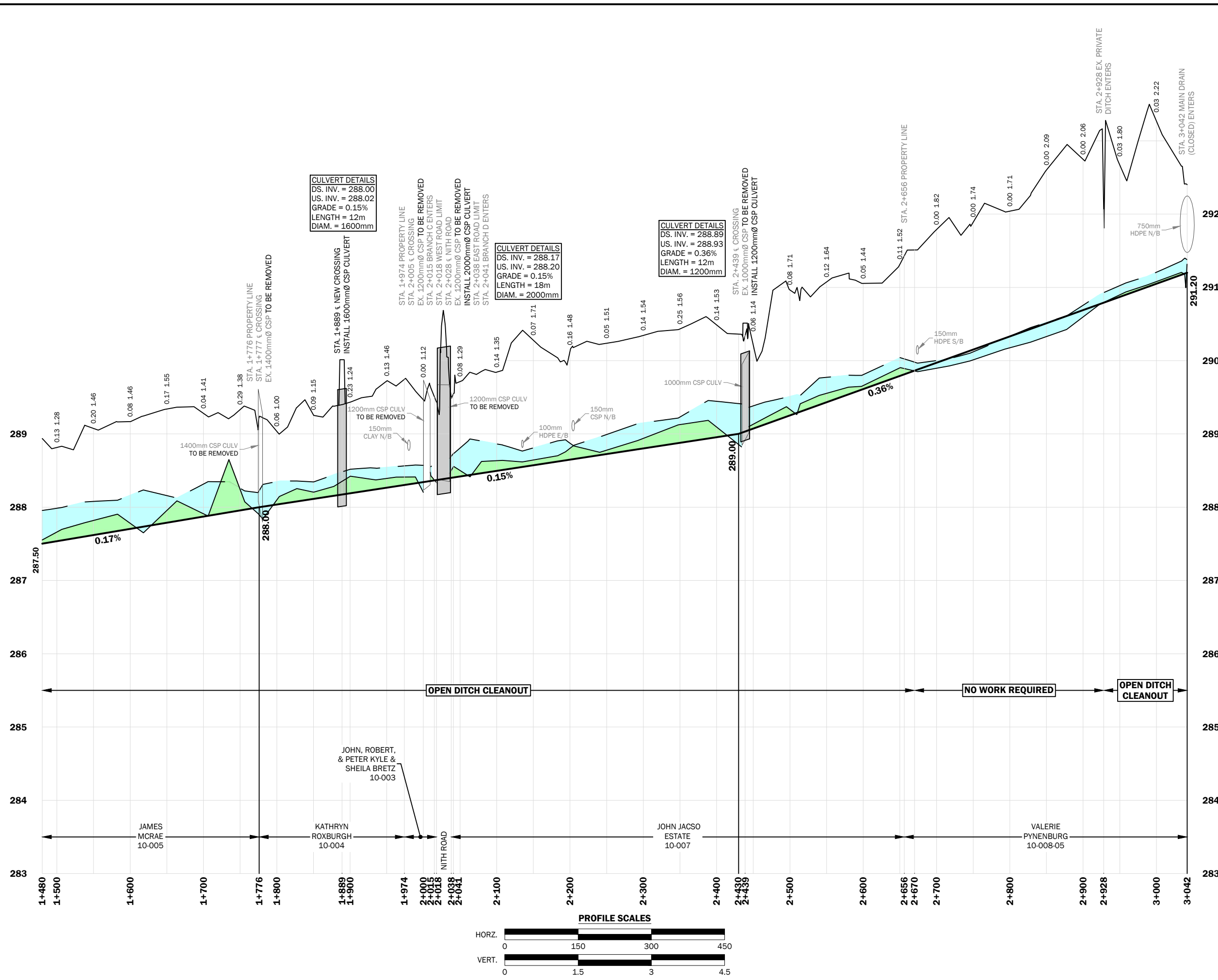
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| BENCHMARK No. 7 | ELEV.=293.05 |
| TOP DOWNSTREAM END OF 400mmØ CSP CULV 9m NORTH OF STA. 0+932 (BR. C) | |
| BENCHMARK No. 8 | ELEV.=293.99 |
| TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D) | |



| | | |
|-----|----------------------------|-----------------|
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| 1 | ON-SITE MEETING | 22-12-13 |

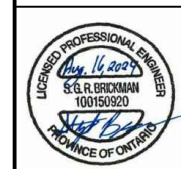


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| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 2 OF 13 |



BENCHMARK DESCRIPTIONS

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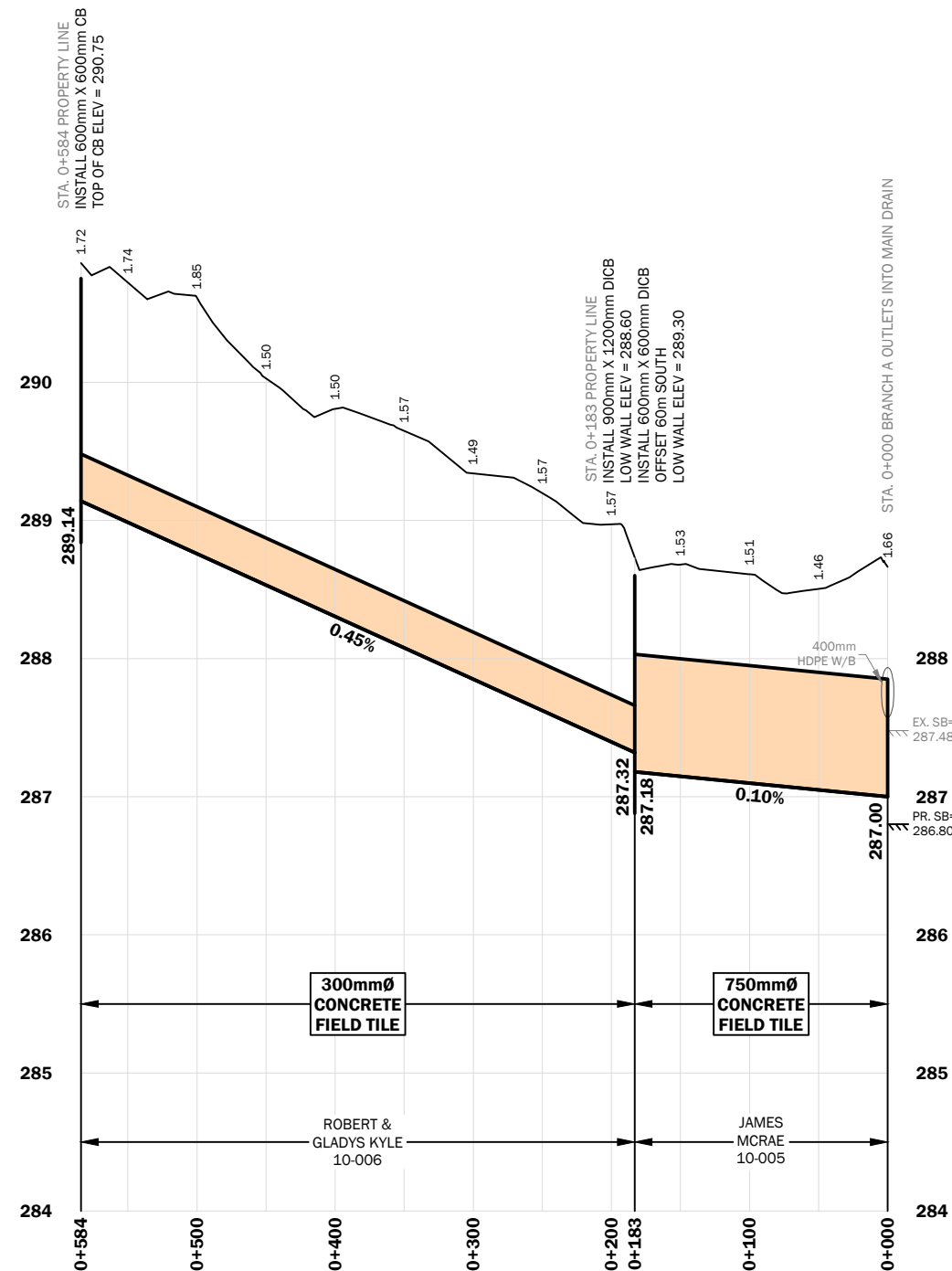
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| 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
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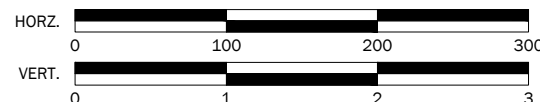
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| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 3 OF 13 |

BENCHMARK DESCRIPTIONS

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| TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D) | |



PROFILE SCALES



**SCHEDULE OF PIPE MATERIALS
BRANCH A**

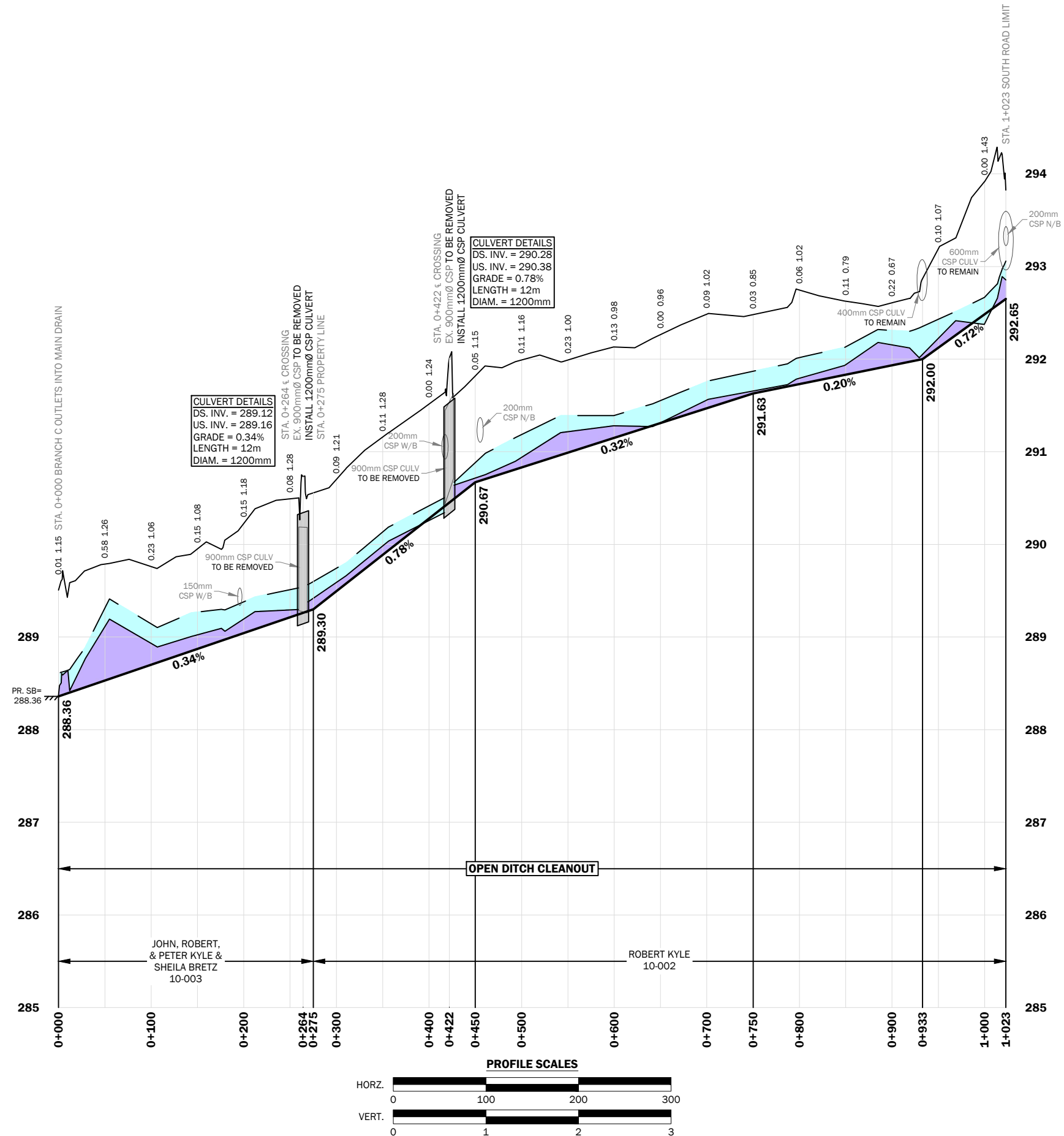
| MATERIAL | DIAMETER (mm) | STATION RANGE | LENGTH (m) |
|--|---------------|---------------|------------|
| 1. HIGH DENSITY POLYETHYLENE OUTLET PIPE | 750 | 0+000 - 0+006 | 6 |
| 2. CONCRETE FIELD TILE | 750 | 0+006 - 0+183 | 177 |
| 3. CONCRETE FIELD TILE | 300 | 0+183 - 0+584 | 401 |



| No. | REVISION | DATE (YY-MM-DD) |
|-----|----------------------------|-----------------|
| 3 | REPORT SUBMISSION | 24-08-16 |
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| 1 | ON-SITE MEETING | 22-12-13 |



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| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 4 OF 13 |



BENCHMARK DESCRIPTIONS

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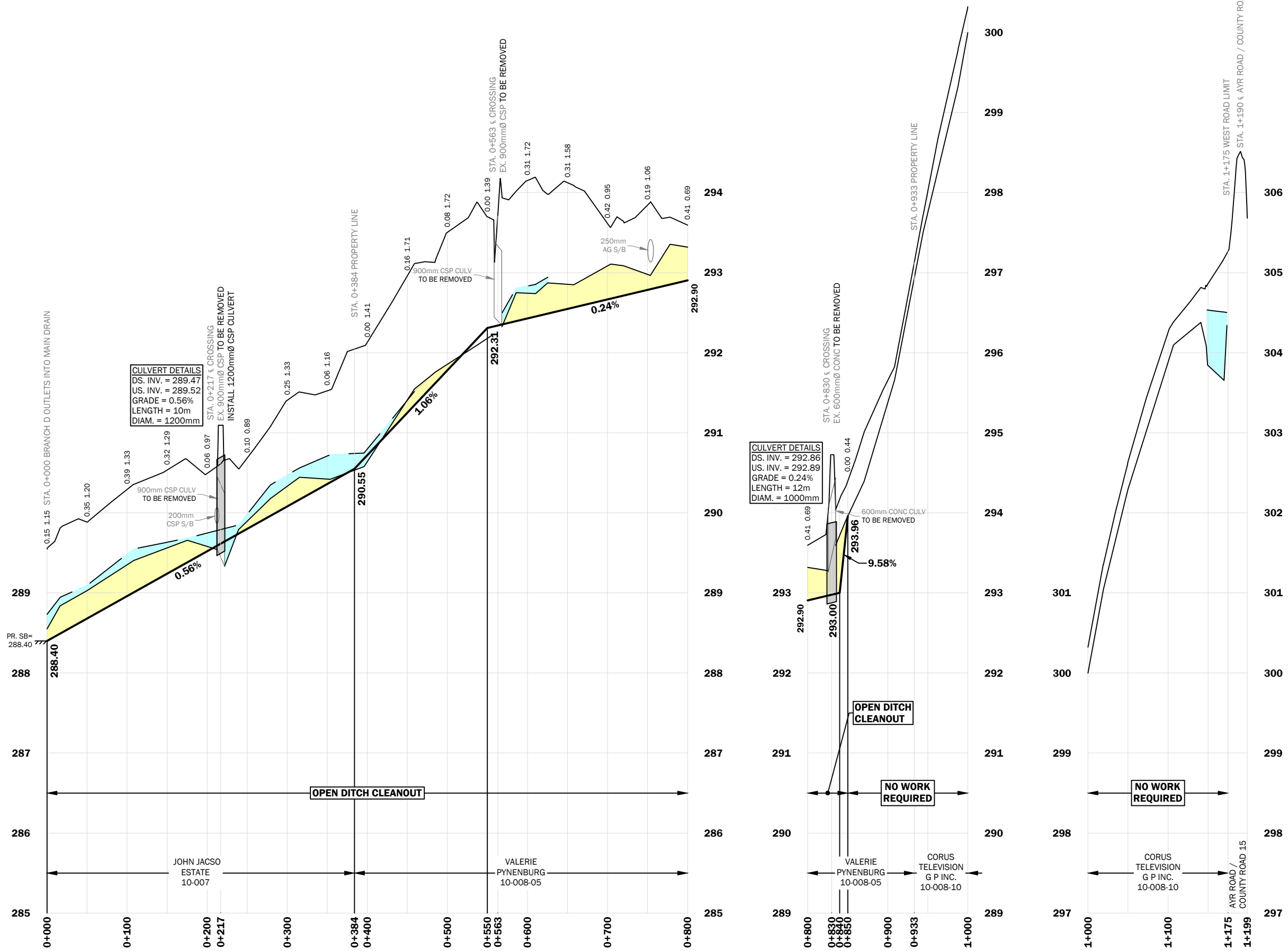
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|--|-----|----------------------------|-----------------|
| | 3 | REPORT SUBMISSION | 24-08-16 |
| | 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
| | 1 | ON-SITE MEETING | 22-12-13 |
| | No. | REVISION | DATE (YY-MM-DD) |



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|---------------------|---------------------------|------------------------|
| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 5 OF 13 |

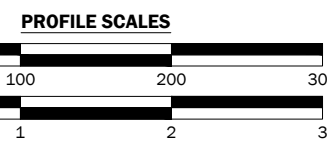
BENCHMARK DESCRIPTIONS

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- BENCHMARK No. 8** ELEV.=293.99
TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D)



CULVERT DETAILS
 DS. INV. = 289.47
 US. INV. = 289.52
 GRADE = 0.56%
 LENGTH = 10m
 DIAM. = 1200mm

CULVERT DETAILS
 DS. INV. = 292.86
 US. INV. = 292.89
 GRADE = 0.24%
 LENGTH = 12m
 DIAM. = 1000mm



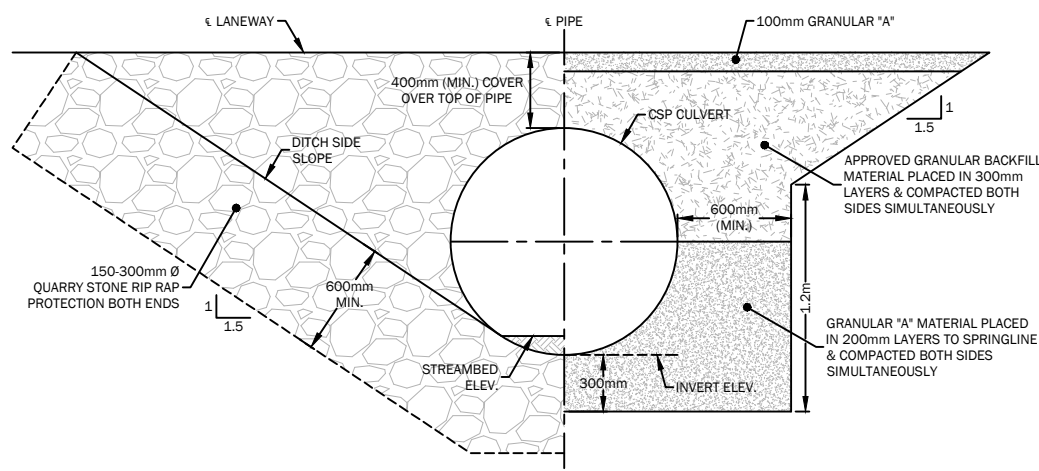
| No. | REVISION | DATE (YY-MM-DD) |
|-----|----------------------------|-----------------|
| 3 | REPORT SUBMISSION | 24-08-16 |
| 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
| 1 | ON-SITE MEETING | 22-12-13 |



| | | |
|---------------------|---------------------------|------------------------|
| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 6 OF 13 |

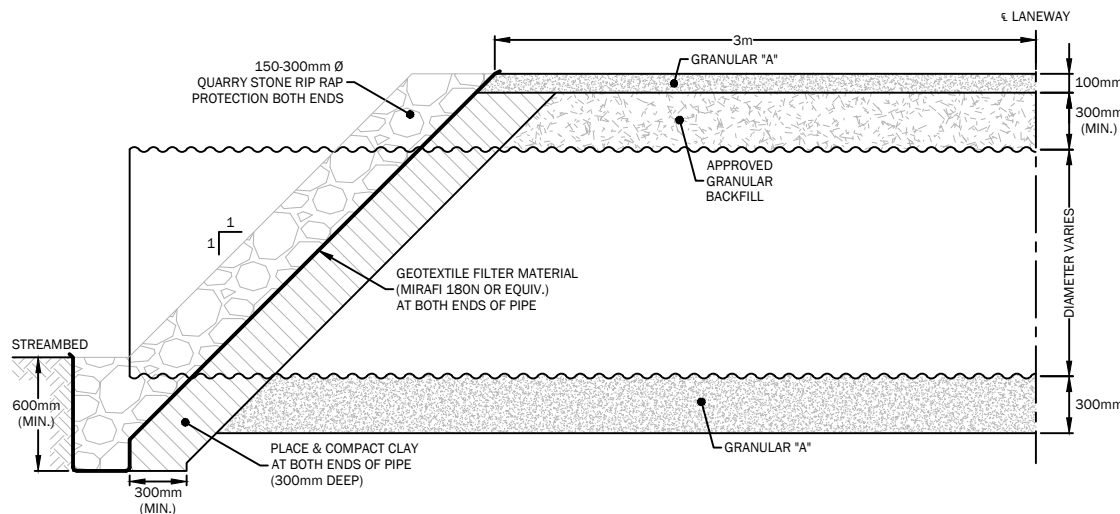
BENCHMARK DESCRIPTIONS

| | |
|---|---------------------|
| BENCHMARK No. 1 | ELEV.=285.09 |
| TOP CENTRE UPSTREAM END OF CONC BOX CULVERT AT STA. 0+013 (MAIN) | |
| BENCHMARK No. 2 | ELEV.=288.56 |
| TOP DOWNSTREAM END OF 3.7m X 2.5m CSPA CULVERT AT STA. 0+896 (MAIN) | |
| BENCHMARK No. 3 | ELEV.=288.52 |
| TOP UPSTREAM END OF 1400mmØ CONC CULVERT AT STA. 1+095 (MAIN) | |
| BENCHMARK No. 4 | ELEV.=289.97 |
| TOP DOWNSTREAM END OF 1000mmØ CSP CULVERT AT STA. 2+435 (MAIN) | |
| BENCHMARK No. 5 | ELEV.=292.25 |
| TOP OF 750mmØ HDPE OUTLET PIPE (MAIN DRAIN CLOSED) AT STA. 3+042 (MAIN) | |
| BENCHMARK No. 6 | ELEV.=290.17 |
| TOP UPSTREAM END OF 900mmØ CSP CULVERT AT STA. 0+268 (BRANCH C) | |
| BENCHMARK No. 7 | ELEV.=293.05 |
| TOP DOWNSTREAM END OF 400mmØ CSP CULV 9m NORTH OF STA. 0+932 (BR. C) | |
| BENCHMARK No. 8 | ELEV.=293.99 |
| TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D) | |



HALF ELEVATION

HALF SECTION

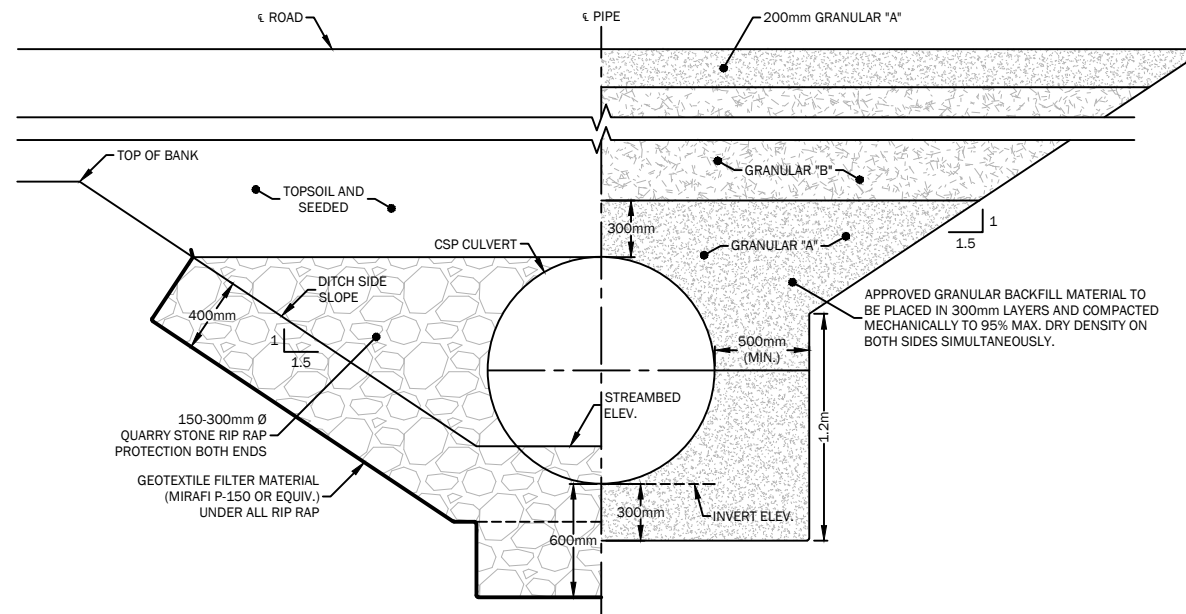


HALF LONGITUDINAL SECTION

| STATION | DIAMETER | LENGTH | INVERT | STREAMBED | CORRUGATIONS | THICKNESS |
|-------------------|----------|--------|------------------------------|------------------------------|--------------|-----------|
| MAIN DRAIN | | | | | | |
| 0+970 | 1800mm | 12m | DS. = 286.24 US. = 286.25 | DS. = 286.42 US. = 286.43 | 125mm X 25mm | 2.80mm |
| 1+088 | 1800mm | 12m | DS. = 286.35 US. = 286.36 | DS. = 286.53 US. = 286.54 | 125mm X 25mm | 2.80mm |
| 1+889 | 1600mm | 12m | DS. = 288.00 US. = 288.02 | DS. = 288.16 US. = 288.18 | 125mm X 25mm | 2.80mm |
| 2+439 | 1200mm | 12m | DS. = 288.89 US. = 288.93 | DS. = 289.01 US. = 289.05 | 125mm X 25mm | 2.80mm |
| BRANCH 'C' | | | | | | |
| 0+264 | 1200mm | 12m | DS. = 289.12 US. = 289.16 | DS. = 289.24 US. = 289.28 | 125mm X 25mm | 2.80mm |
| 0+422 | 1200mm | 12m | DS. = 290.28 US. = 290.38 | DS. = 290.40 US. = 290.50 | 125mm X 25mm | 2.80mm |
| BRANCH 'D' | | | | | | |
| 0+217 | 1200mm | 10m | DS. = 289.47 US. = 289.52 | DS. = 289.59 US. = 289.64 | 125mm X 25mm | 2.80mm |
| 0+830 | 1000mm | 12m | DS. = 292.86 US. = 292.89 | DS. = 292.96 US. = 292.99 | 68mm X 13mm | 2.00mm |

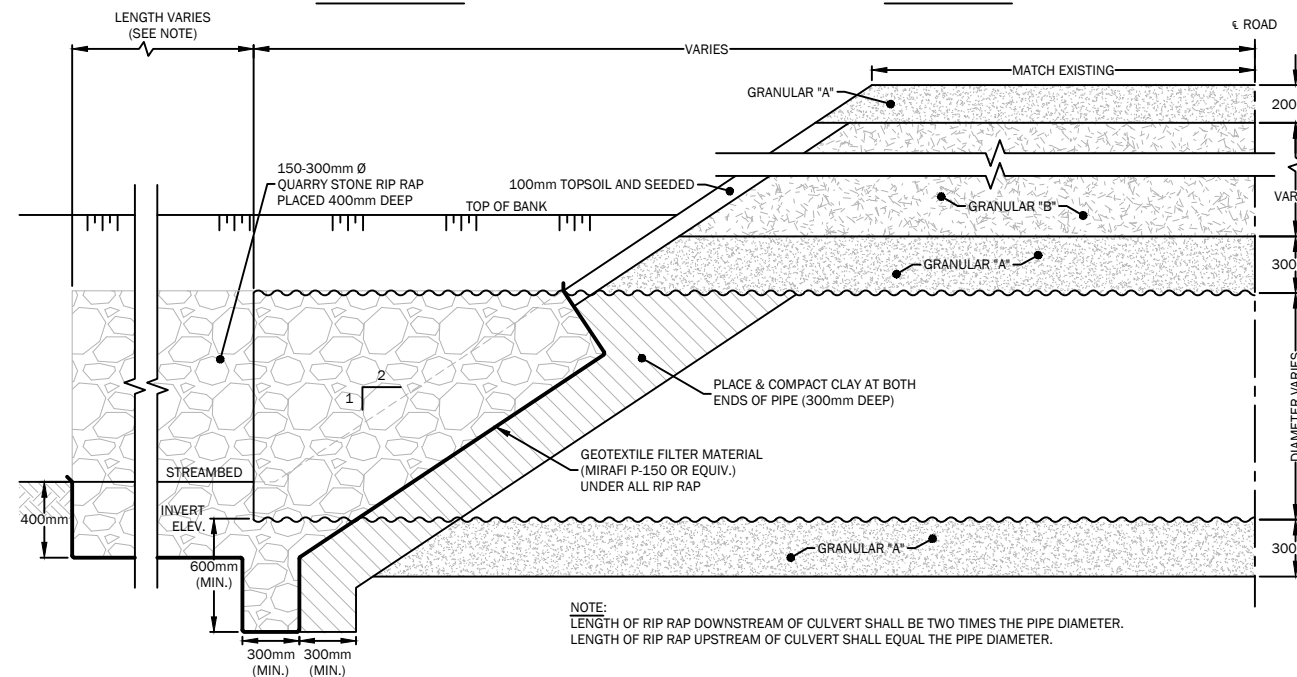
TYPICAL LANEWAY CULVERT DETAIL

N.T.S.



HALF ELEVATION

HALF SECTION

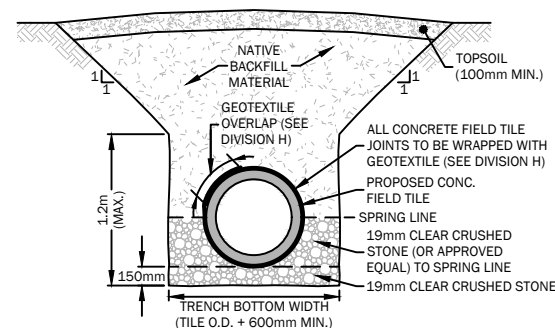


HALF LONGITUDINAL SECTION

| STATION | DIAMETER | LENGTH | INVERT | STREAMBED | CORRUGATIONS | THICKNESS |
|---------|----------|--------|------------------------------|------------------------------|--------------|-----------|
| 2+028 | 2000mm | 18m | US. = 288.20 DS. = 288.17 | US. = 288.40 DS. = 288.37 | 125mm X 25mm | 2.80mm |

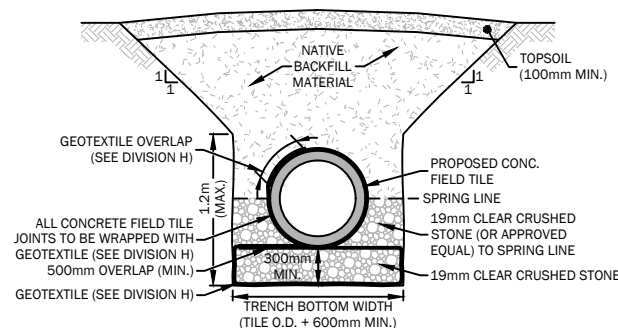
TYPICAL GRAVEL ROAD CULVERT DETAIL

N.T.S.



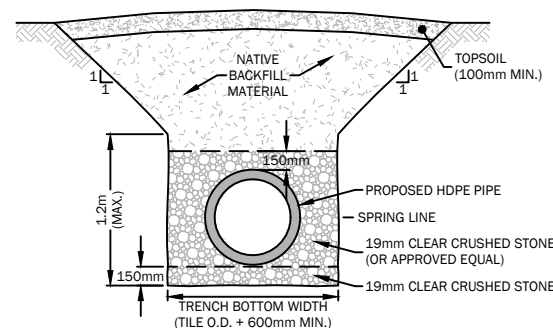
TYPICAL CONCRETE TILE INSTALLATION ON STONE BEDDING DETAIL

N.T.S.



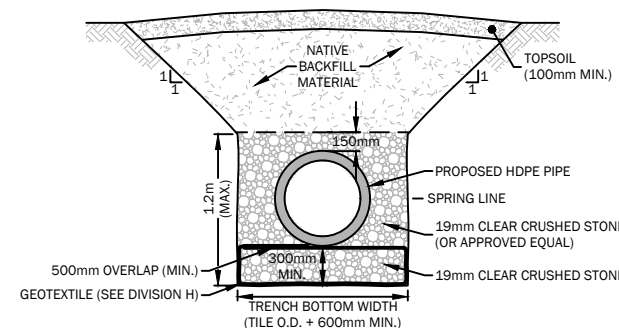
TYPICAL CONC. TILE INSTALLATION ON WRAPPED STONE BEDDING DETAIL (PROVISIONAL ITEM)

N.T.S.



TYPICAL HDPE PIPE INSTALLATION ON STONE BEDDING DETAIL

N.T.S.



TYPICAL HDPE PIPE INSTALLATION ON WRAPPED STONE BEDDING DETAIL (PROVISIONAL ITEM)

N.T.S.



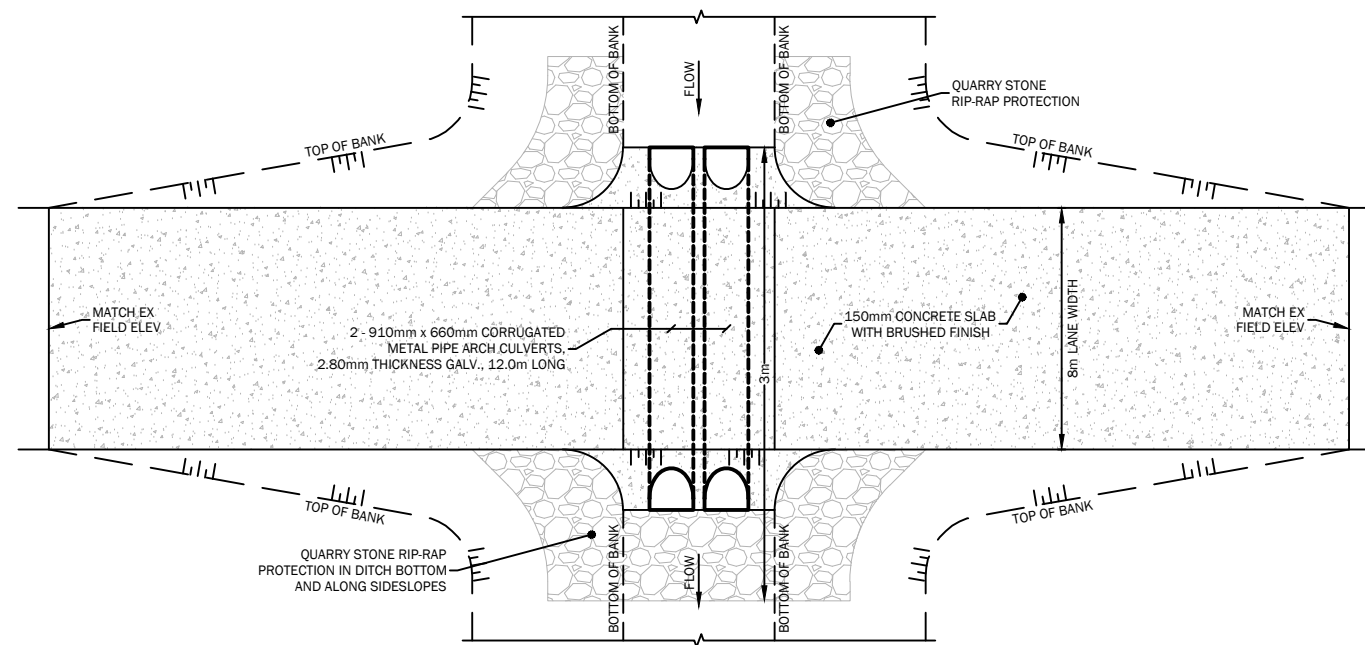
| No. | REVISION | DATE (YY-MM-DD) |
|-----|----------------------------|-----------------|
| 3 | REPORT SUBMISSION | 24-08-16 |
| 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
| 1 | ON-SITE MEETING | 22-12-13 |



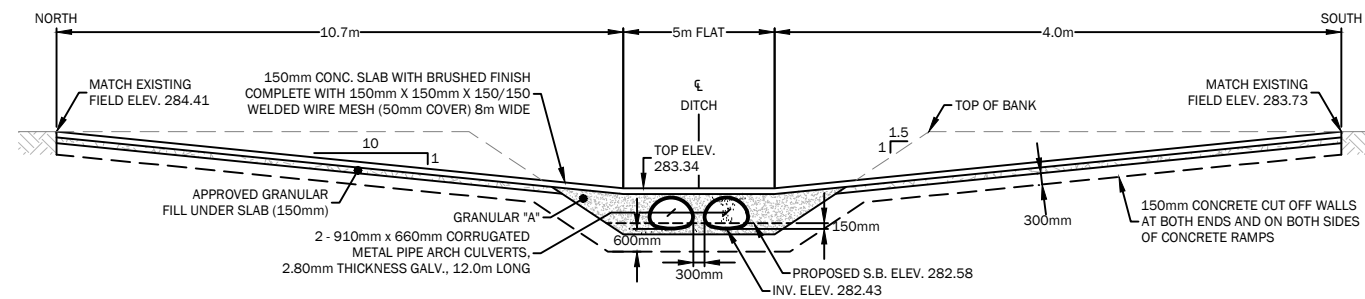
| DRAWN BY: | DESIGNED BY: | CHECKED BY: |
|------------|---------------|-------------|
| R.U. | M.T. | S.B. |
| DATE: | REFERENCE No. | DRAWING No. |
| 2024-08-16 | BRNT-002 | 7 OF 13 |

BENCHMARK DESCRIPTIONS

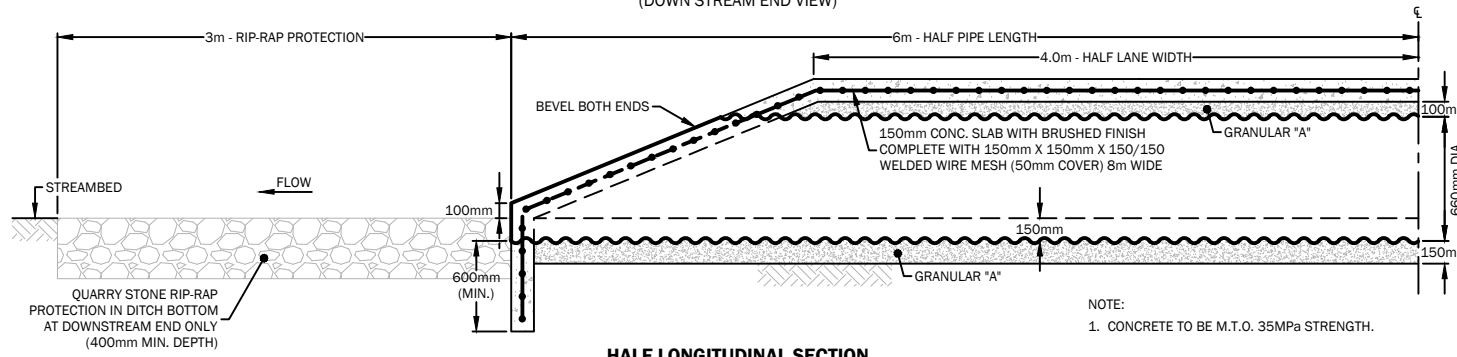
| | |
|---|---------------------|
| BENCHMARK No. 1 | ELEV.=285.09 |
| TOP CENTRE UPSTREAM END OF CONC BOX CULVERT AT STA. 0+013 (MAIN) | |
| BENCHMARK No. 2 | ELEV.=288.56 |
| TOP DOWNSTREAM END OF 3.7m X 2.5m CSPA CULVERT AT STA. 0+896 (MAIN) | |
| BENCHMARK No. 3 | ELEV.=288.52 |
| TOP UPSTREAM END OF 1400mmØ CONC CULVERT AT STA. 1+095 (MAIN) | |
| BENCHMARK No. 4 | ELEV.=289.97 |
| TOP DOWNSTREAM END OF 1000mmØ CSP CULVERT AT STA. 2+435 (MAIN) | |
| BENCHMARK No. 5 | ELEV.=292.25 |
| TOP OF 750mmØ HDPE OUTLET PIPE (MAIN DRAIN CLOSED) AT STA. 3+042 (MAIN) | |
| BENCHMARK No. 6 | ELEV.=290.17 |
| TOP UPSTREAM END OF 900mmØ CSP CULVERT AT STA. 0+268 (BRANCH C) | |
| BENCHMARK No. 7 | ELEV.=293.05 |
| TOP DOWNSTREAM END OF 400mmØ CSP CULV 9m NORTH OF STA. 0+932 (BR. C) | |
| BENCHMARK No. 8 | ELEV.=293.99 |
| TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D) | |



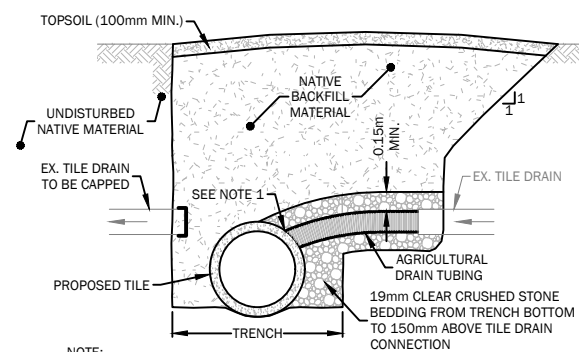
PLAN



**END SECTION
(DOWN STREAM END VIEW)**

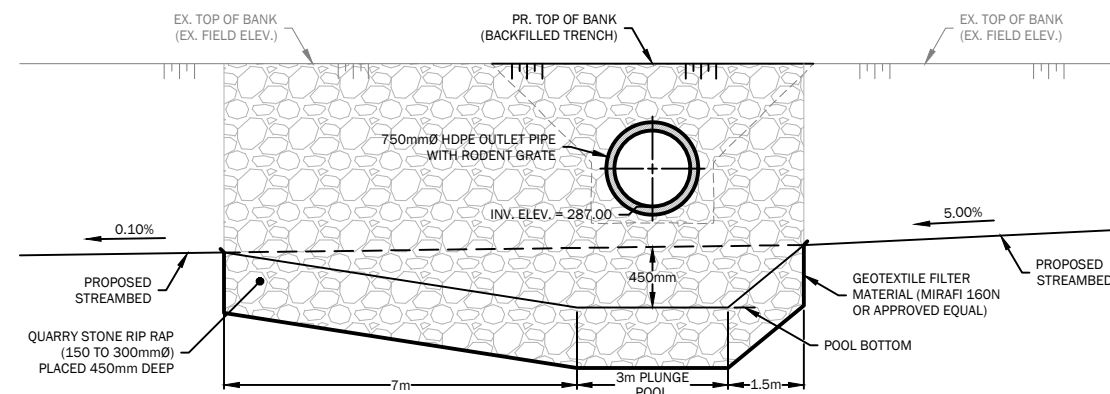


**HALF LONGITUDINAL SECTION
LOW LEVEL CROSSING DETAIL (STA. 0+148 MAIN)
N.T.S.**

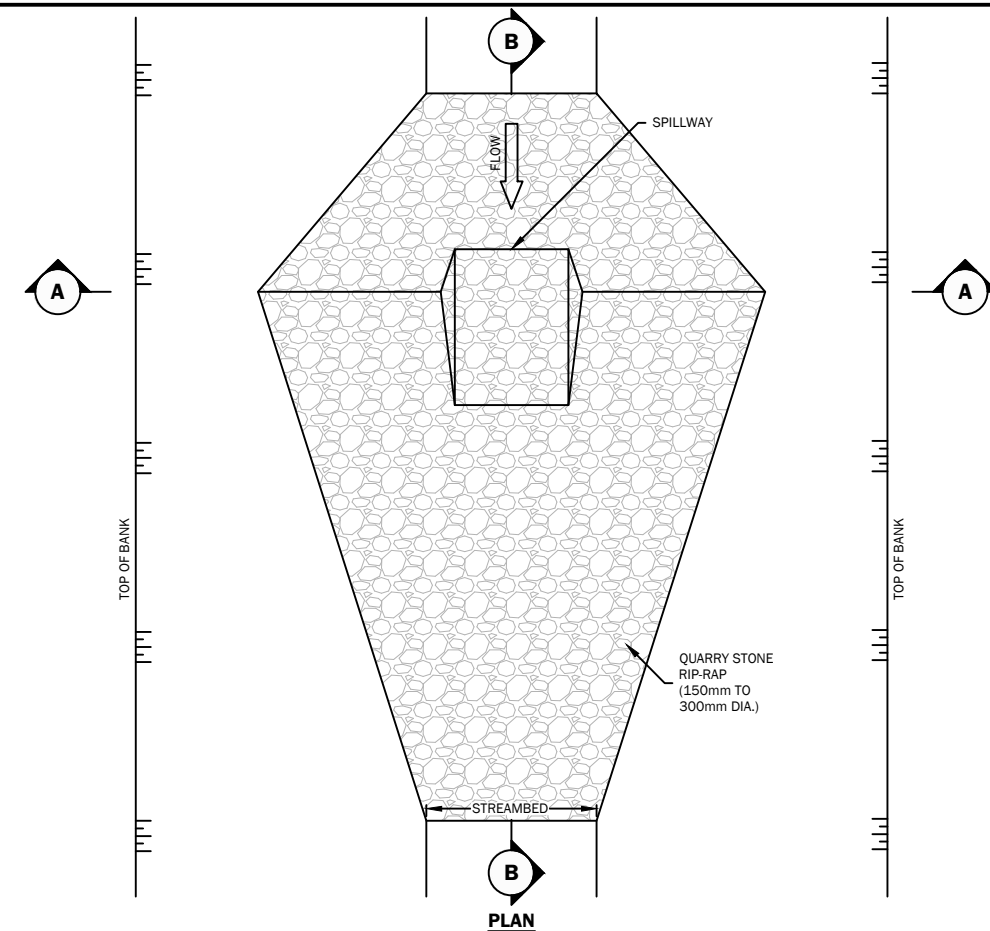


- NOTE:**
- ALL TILE CONNECTIONS TO BE EITHER A CORED HOLE WITH AN INSERT COUPLER, OR A MANUFACTURED TEE.
 - CLEAR CRUSHED STONE BEDDING NOT REQUIRED IF DUAL WALL H.D.P.E. PIPE IS USED FOR THE CONNECTION.

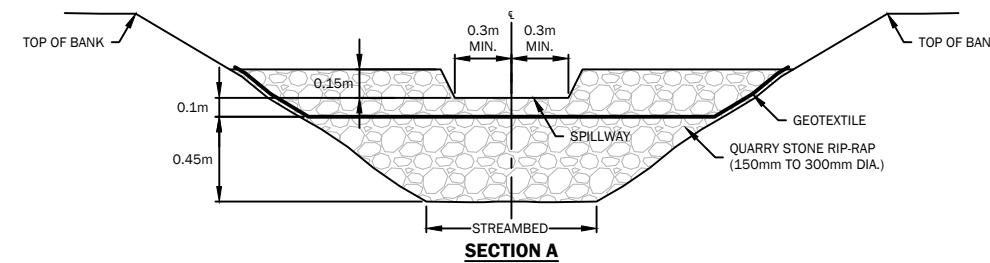
**TYPICAL TILE CONNECTION DETAIL
N.T.S.**



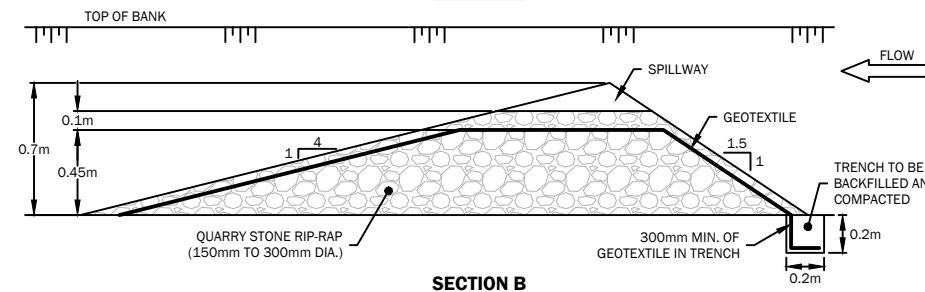
**PLUNGE POOL DETAIL
N.T.S.**



PLAN

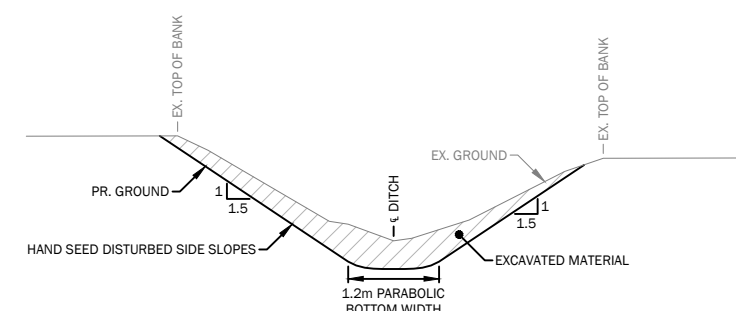


SECTION A



SECTION B

**TYPICAL ROCK CHECK DAM DETAIL
N.T.S.**



**TYPICAL PROPOSED DRAIN SECTION
N.T.S.**



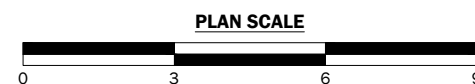
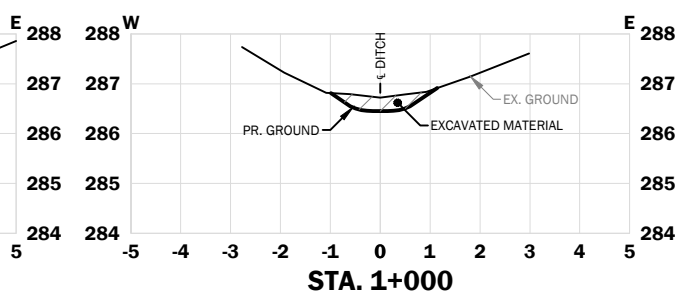
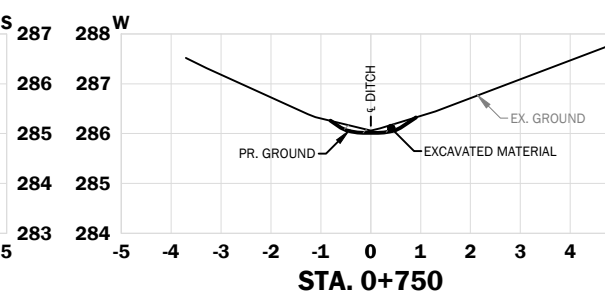
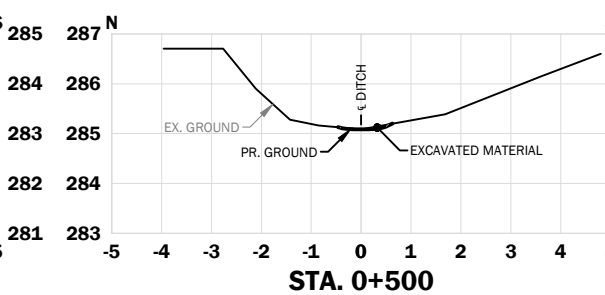
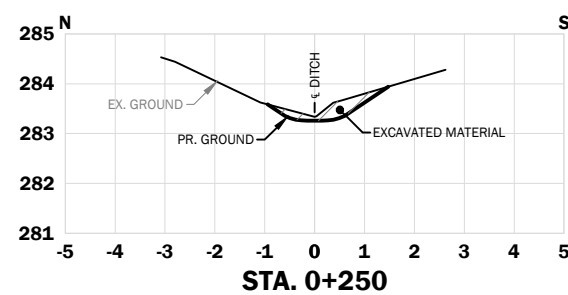
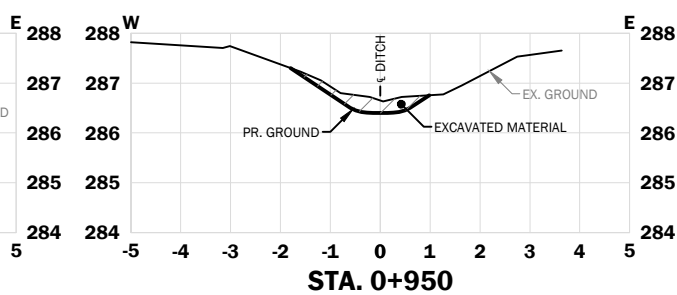
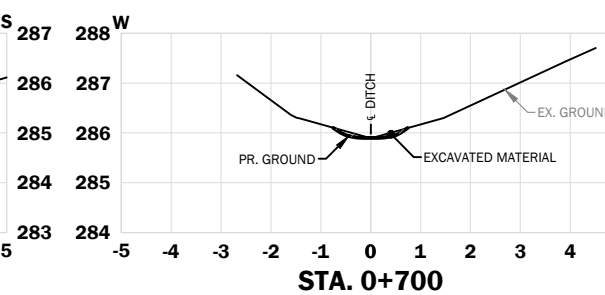
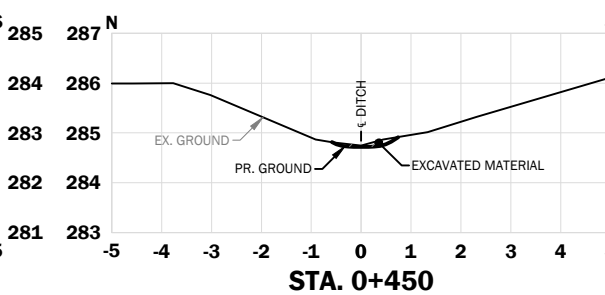
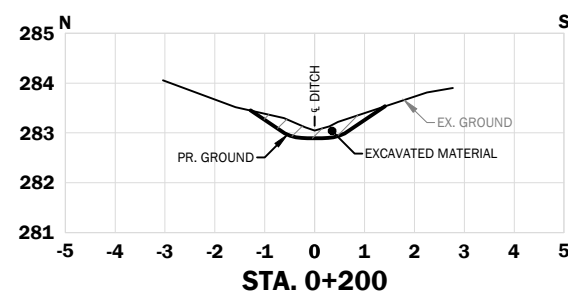
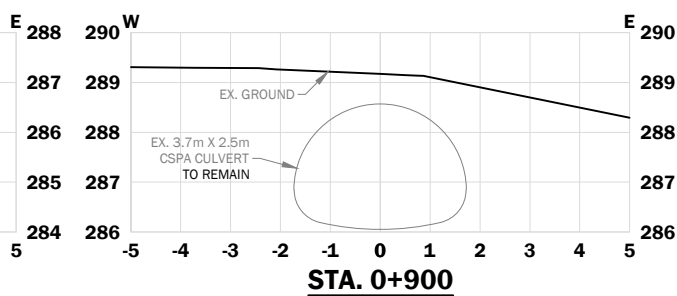
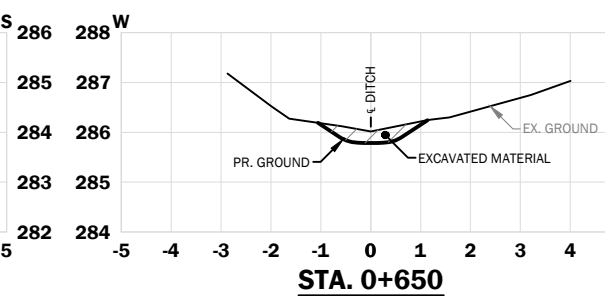
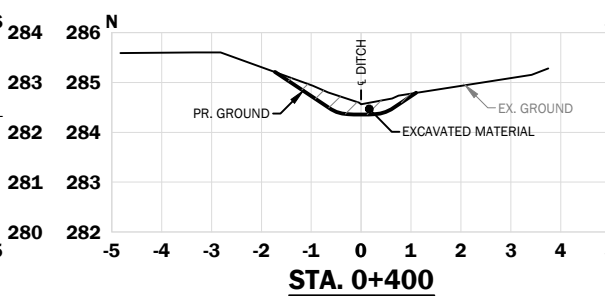
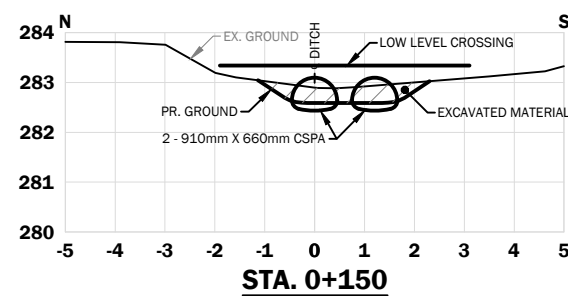
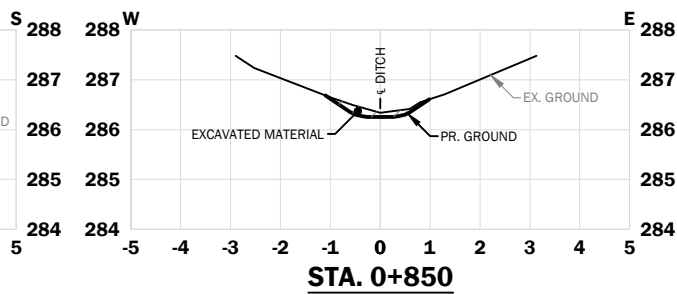
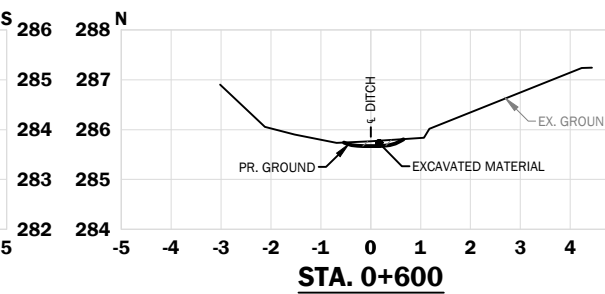
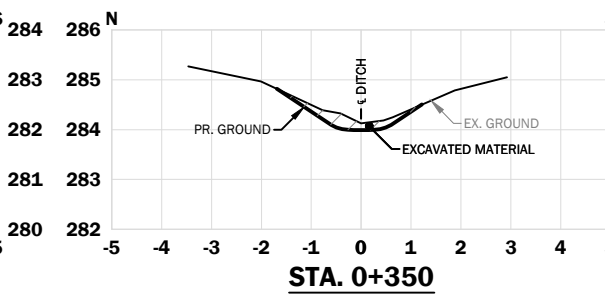
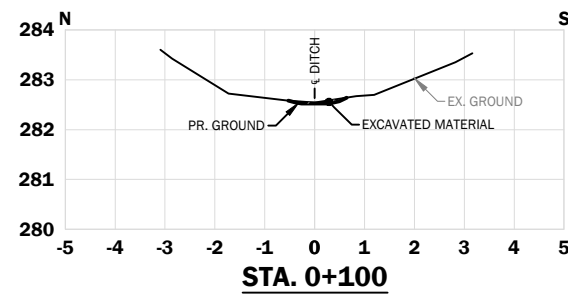
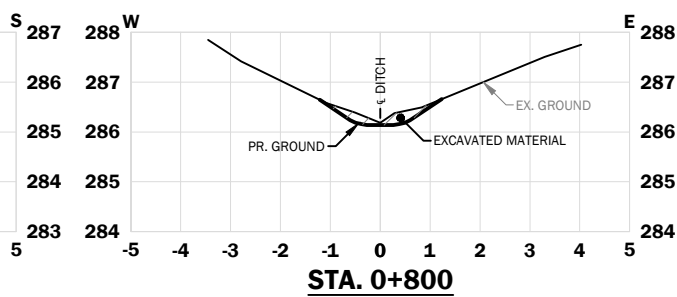
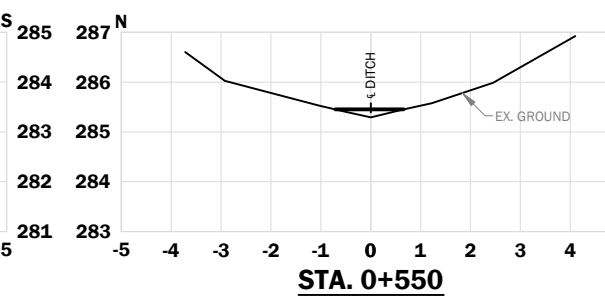
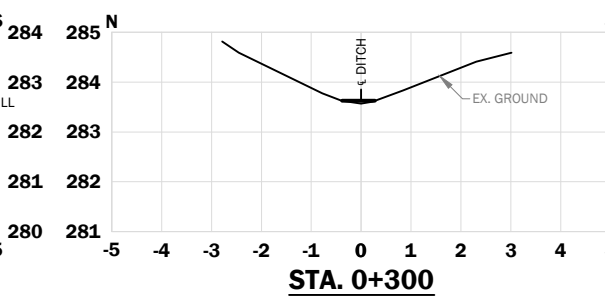
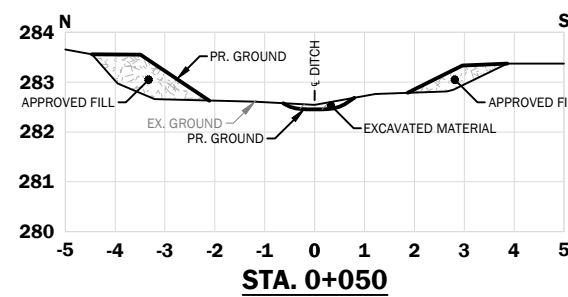
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| 3 | REPORT SUBMISSION | 24-08-16 |
| 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
| 1 | ON-SITE MEETING | 22-12-13 |
| No. | REVISION | DATE (YY-MM-DD) |



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| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 8 OF 13 |

BENCHMARK DESCRIPTIONS

- BENCHMARK No. 1** ELEV.=285.09
TOP CENTRE UPSTREAM END OF CONC BOX CULVERT AT STA. 0+013 (MAIN)
- BENCHMARK No. 2** ELEV.=288.56
TOP DOWNSTREAM END OF 3.7m X 2.5m CSPA CULVERT AT STA. 0+896 (MAIN)
- BENCHMARK No. 3** ELEV.=288.52
TOP UPSTREAM END OF 1400mmØ CONC CULVERT AT STA. 1+095 (MAIN)
- BENCHMARK No. 4** ELEV.=289.97
TOP DOWNSTREAM END OF 1000mmØ CSP CULVERT AT STA. 2+435 (MAIN)
- BENCHMARK No. 5** ELEV.=292.25
TOP OF 750mmØ HDPE OUTLET PIPE (MAIN DRAIN CLOSED) AT STA. 3+042 (MAIN)
- BENCHMARK No. 6** ELEV.=290.17
TOP UPSTREAM END OF 900mmØ CSP CULVERT AT STA. 0+268 (BRANCH C)
- BENCHMARK No. 7** ELEV.=293.05
TOP DOWNSTREAM END OF 400mmØ CSP CULV 9m NORTH OF STA. 0+932 (BR. C)
- BENCHMARK No. 8** ELEV.=293.99
TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D)



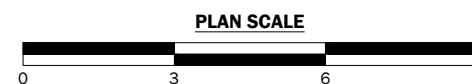
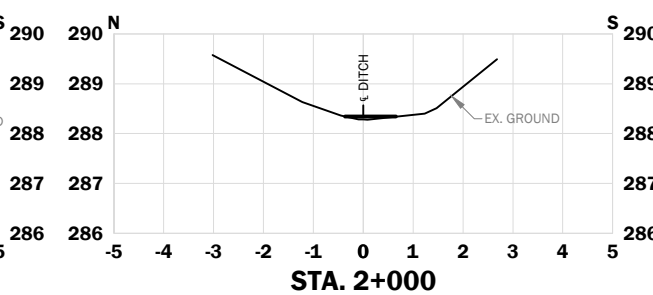
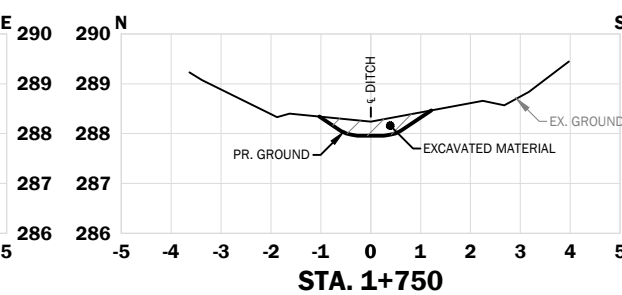
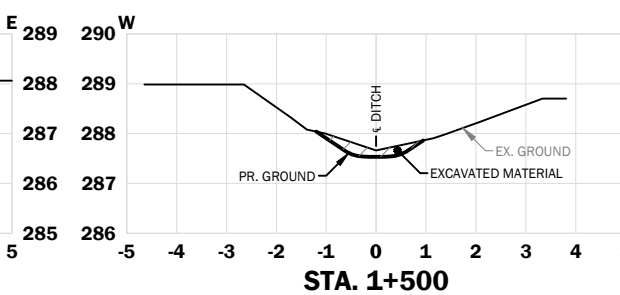
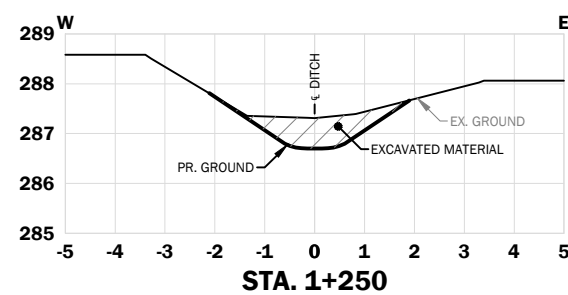
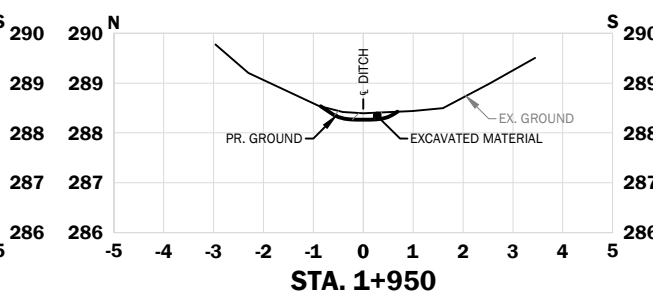
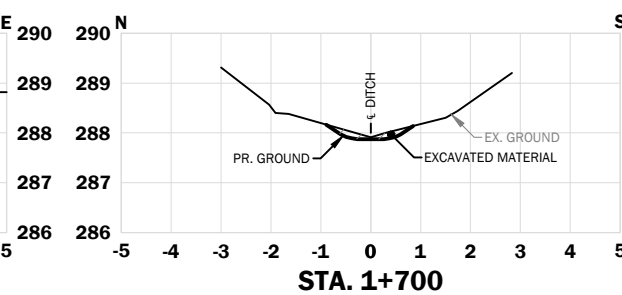
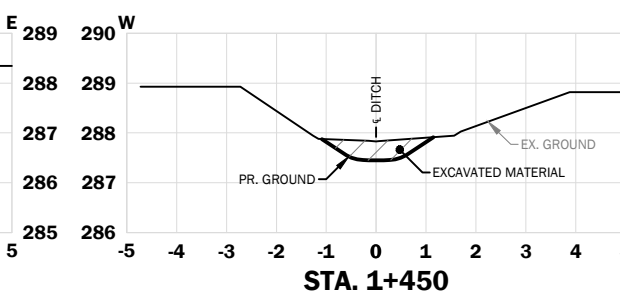
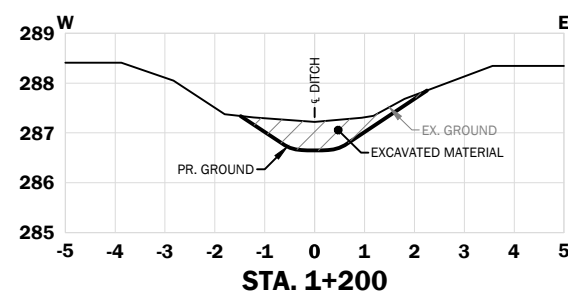
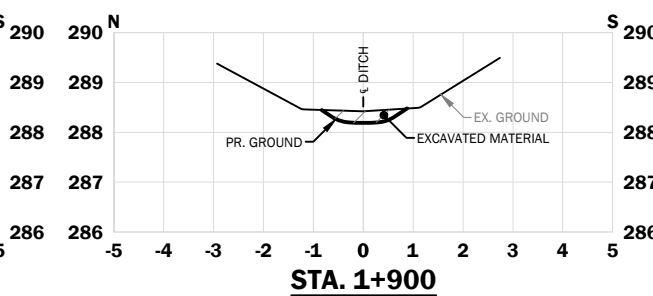
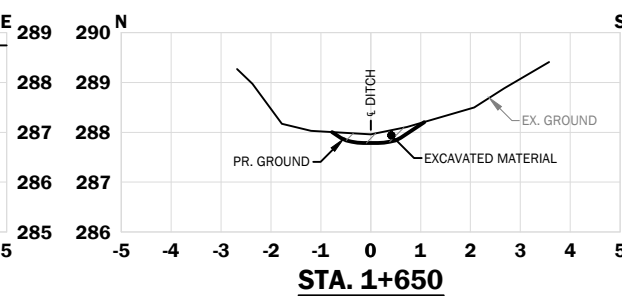
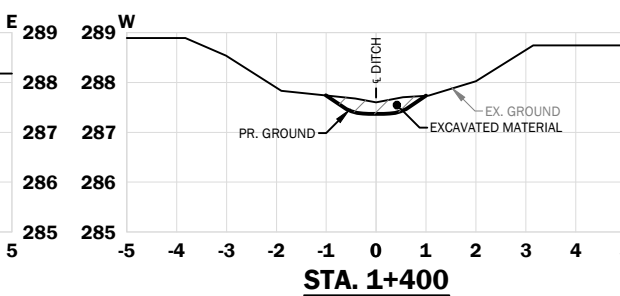
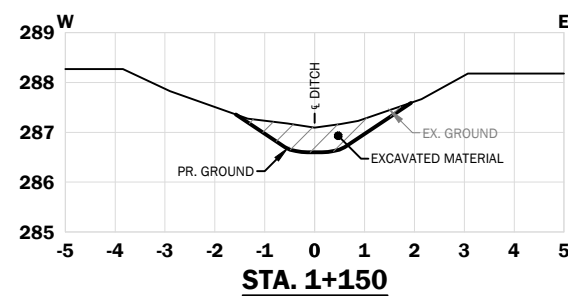
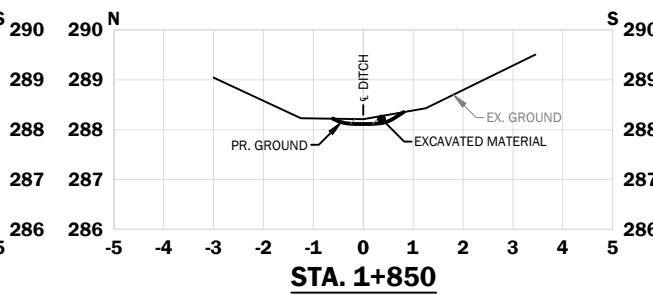
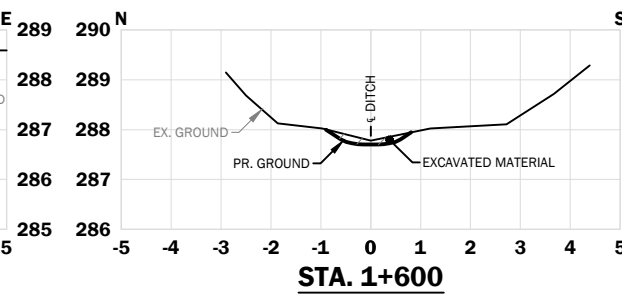
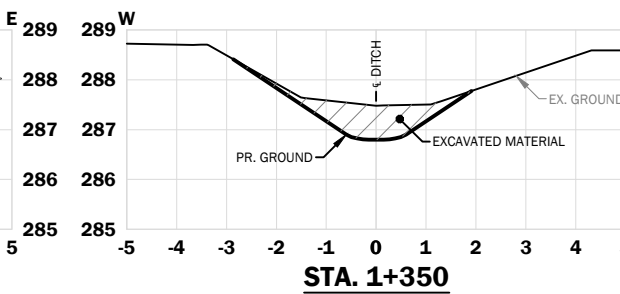
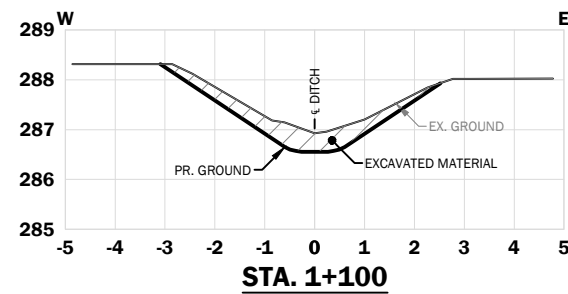
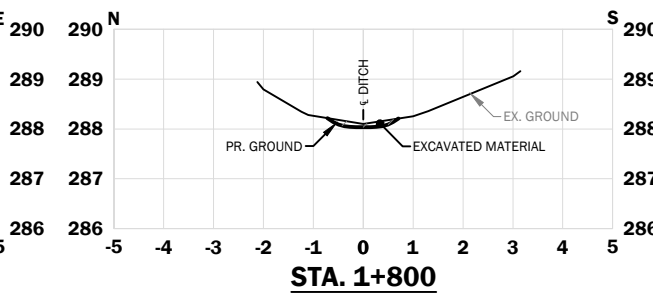
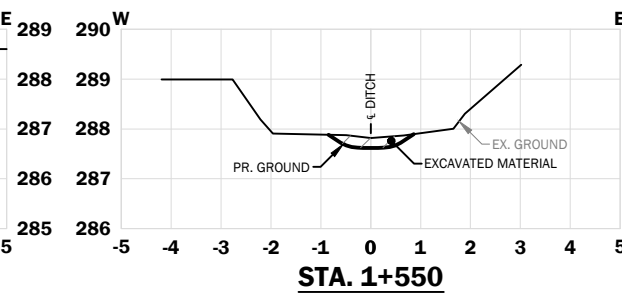
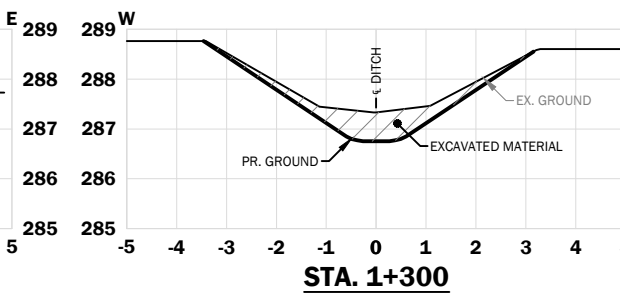
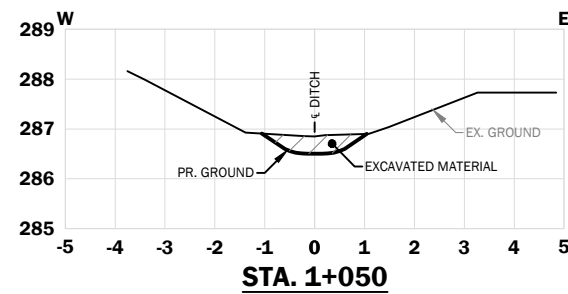
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| 3 | REPORT SUBMISSION | 24-08-16 |
| 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
| 1 | ON-SITE MEETING | 22-12-13 |
| No. | REVISION | DATE (YY-MM-DD) |



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|---------------------|---------------------------|------------------------|
| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 9 OF 13 |

BENCHMARK DESCRIPTIONS

- BENCHMARK No. 1** ELEV.=285.09
TOP CENTRE UPSTREAM END OF CONC BOX CULVERT AT STA. 0+013 (MAIN)
- BENCHMARK No. 2** ELEV.=288.56
TOP DOWNSTREAM END OF 3.7m X 2.5m CSPA CULVERT AT STA. 0+896 (MAIN)
- BENCHMARK No. 3** ELEV.=288.52
TOP UPSTREAM END OF 1400mmØ CONC CULVERT AT STA. 1+095 (MAIN)
- BENCHMARK No. 4** ELEV.=289.97
TOP DOWNSTREAM END OF 1000mmØ CSP CULVERT AT STA. 2+435 (MAIN)
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TOP OF 750mmØ HDPE OUTLET PIPE (MAIN DRAIN CLOSED) AT STA. 3+042 (MAIN)
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TOP UPSTREAM END OF 900mmØ CSP CULVERT AT STA. 0+268 (BRANCH C)
- BENCHMARK No. 7** ELEV.=293.05
TOP DOWNSTREAM END OF 400mmØ CSP CULV 9m NORTH OF STA. 0+932 (BR. C)
- BENCHMARK No. 8** ELEV.=293.99
TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D)



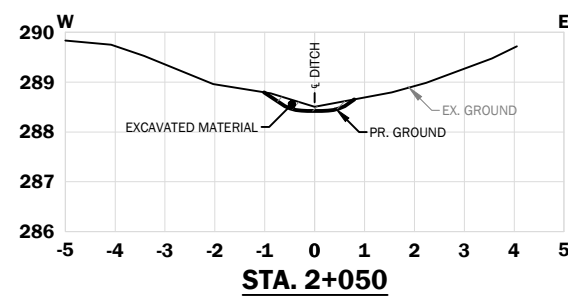
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| 3 | REPORT SUBMISSION | 24-08-16 |
| 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
| 1 | ON-SITE MEETING | 22-12-13 |
| No. | REVISION | DATE (YY-MM-DD) |



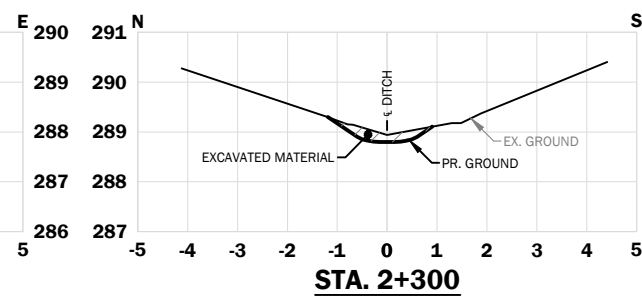
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| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 10 OF 13 |

BENCHMARK DESCRIPTIONS

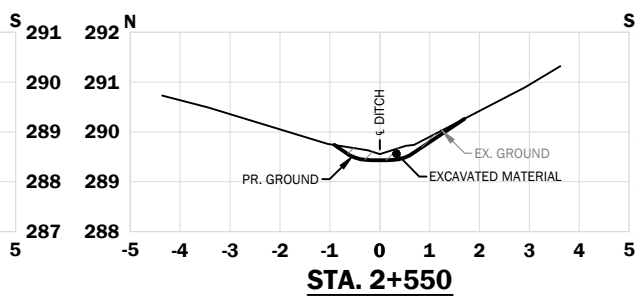
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|---|--------------|
| BENCHMARK No. 1 | ELEV.=285.09 |
| TOP CENTRE UPSTREAM END OF CONC BOX CULVERT AT STA. 0+013 (MAIN) | |
| BENCHMARK No. 2 | ELEV.=288.56 |
| TOP DOWNSTREAM END OF 3.7m X 2.5m CSPA CULVERT AT STA. 0+896 (MAIN) | |
| BENCHMARK No. 3 | ELEV.=288.52 |
| TOP UPSTREAM END OF 1400mmØ CONC CULVERT AT STA. 1+095 (MAIN) | |
| BENCHMARK No. 4 | ELEV.=289.97 |
| TOP DOWNSTREAM END OF 1000mmØ CSP CULVERT AT STA. 2+435 (MAIN) | |
| BENCHMARK No. 5 | ELEV.=292.25 |
| TOP OF 750mmØ HDPE OUTLET PIPE (MAIN DRAIN CLOSED) AT STA. 3+042 (MAIN) | |
| BENCHMARK No. 6 | ELEV.=290.17 |
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| BENCHMARK No. 7 | ELEV.=293.05 |
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| BENCHMARK No. 8 | ELEV.=293.99 |
| TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D) | |



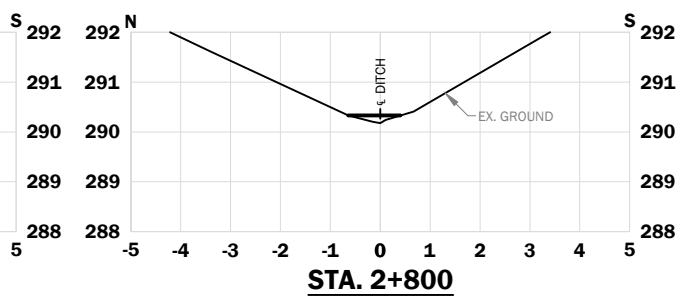
STA. 2+050



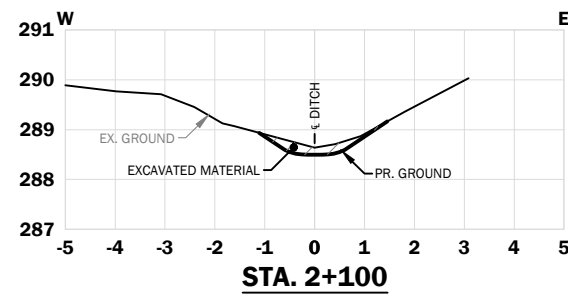
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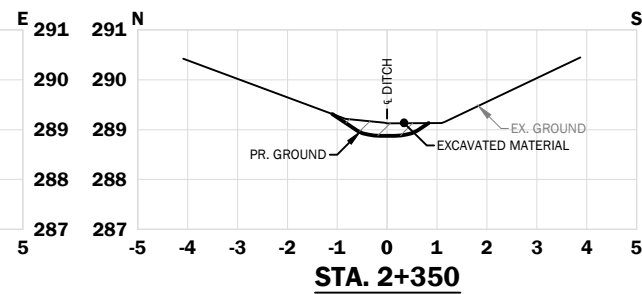
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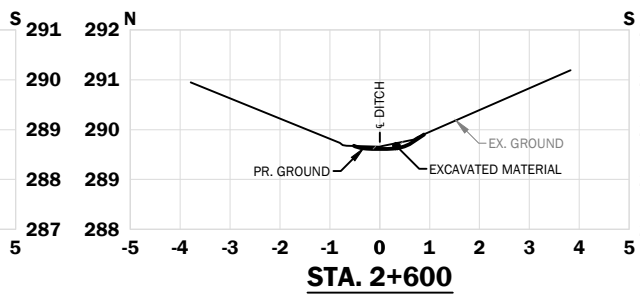
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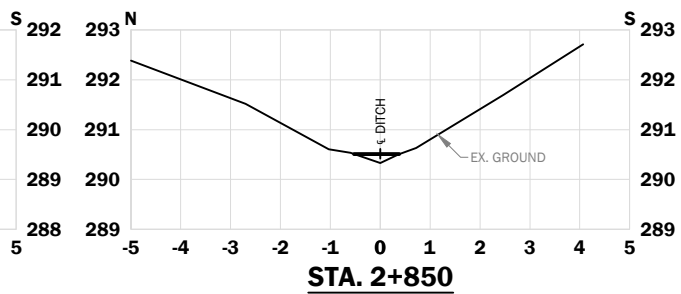
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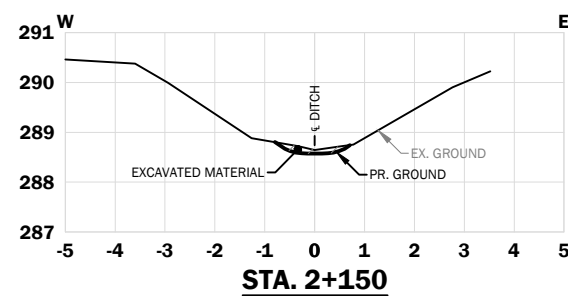
STA. 2+350



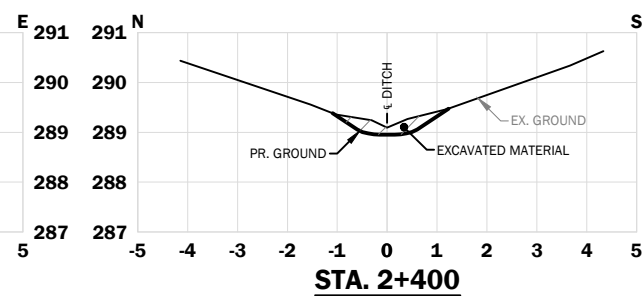
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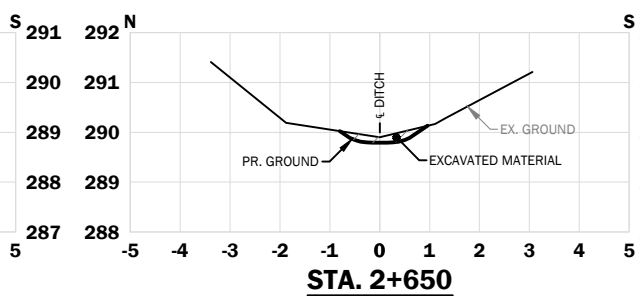
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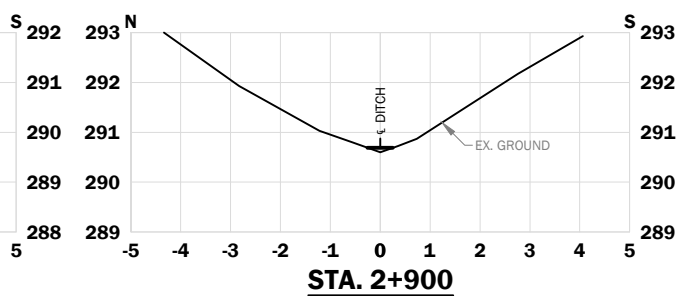
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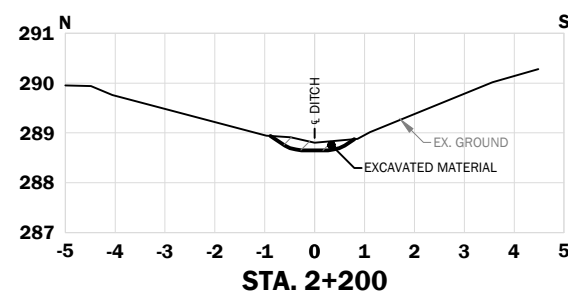
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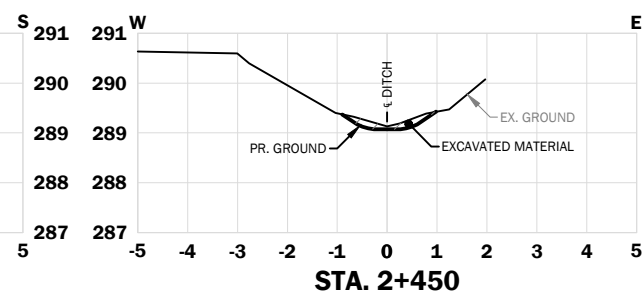
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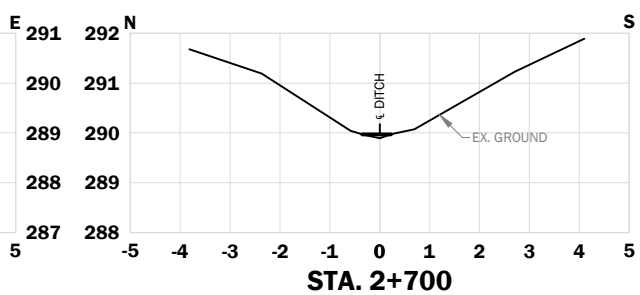
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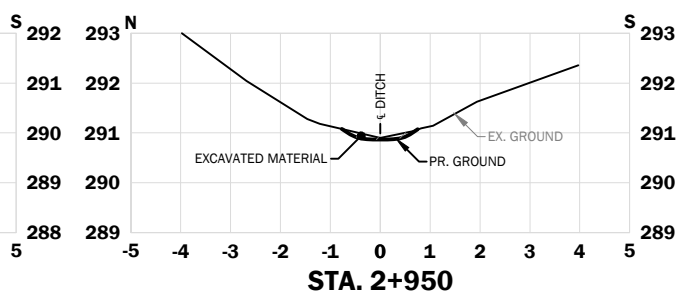
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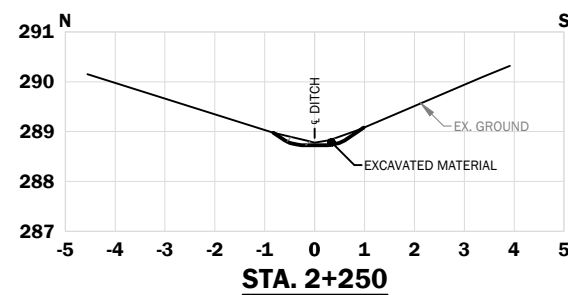
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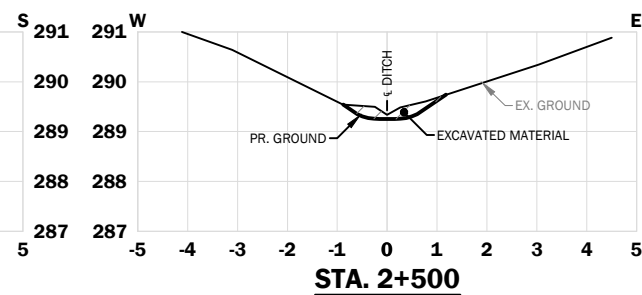
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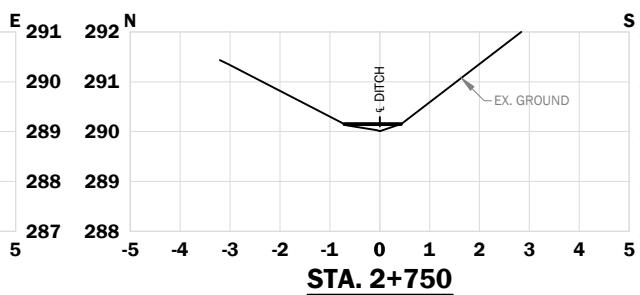
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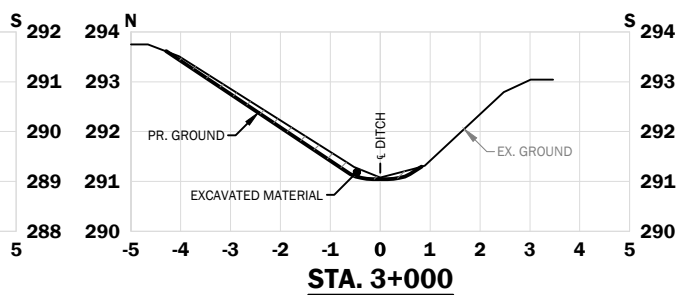
STA. 2+250



STA. 2+500

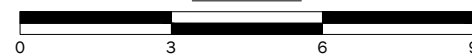


STA. 2+750



STA. 3+000

PLAN SCALE



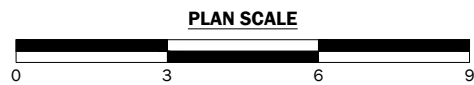
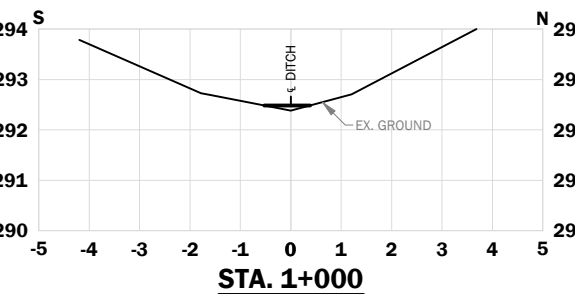
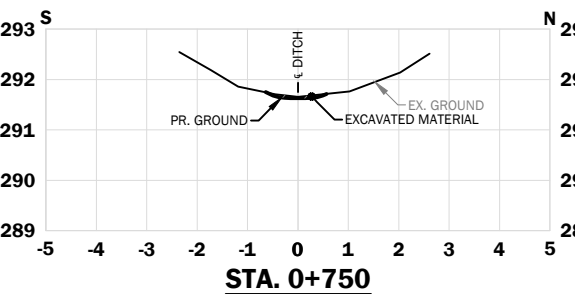
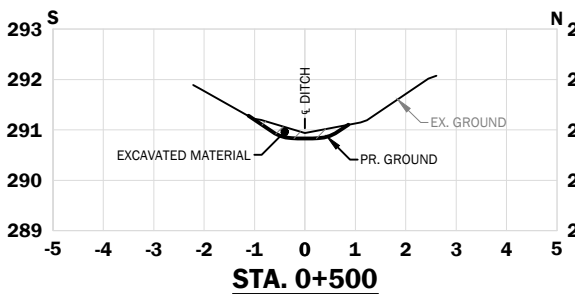
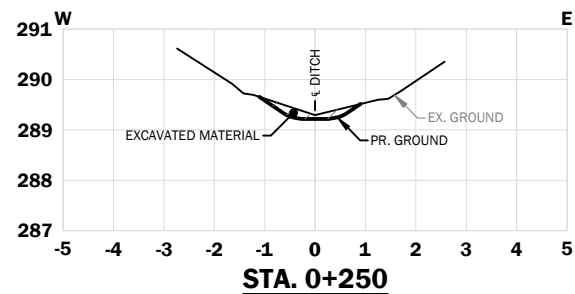
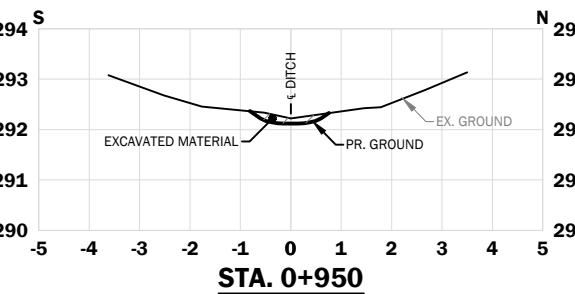
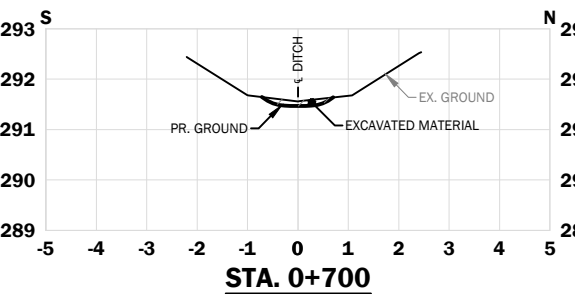
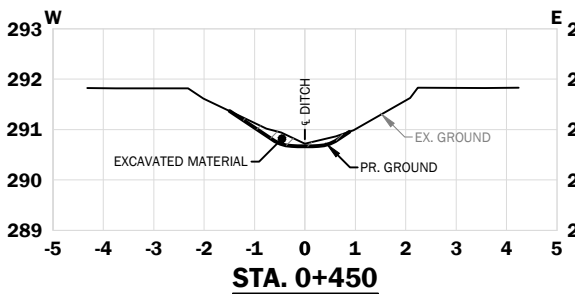
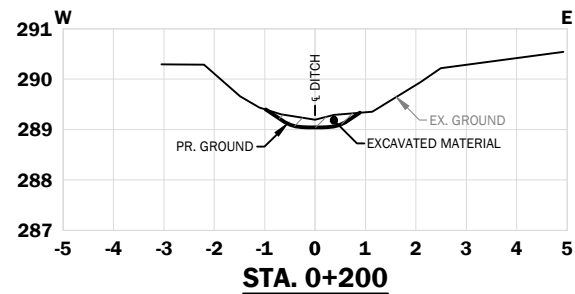
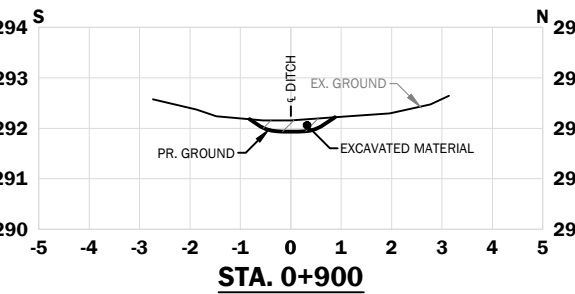
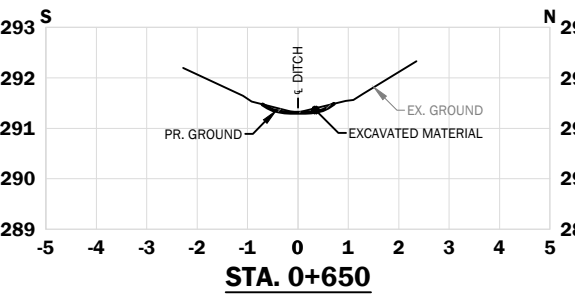
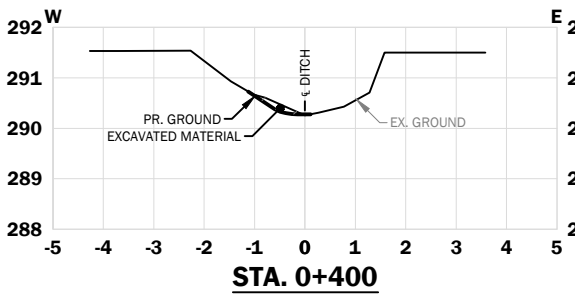
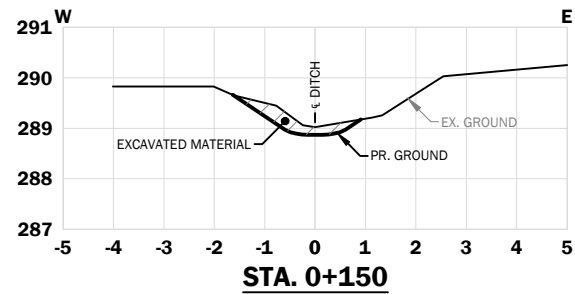
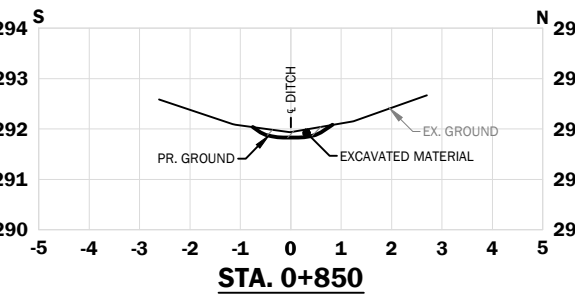
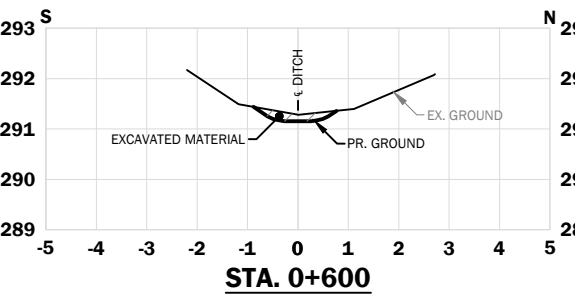
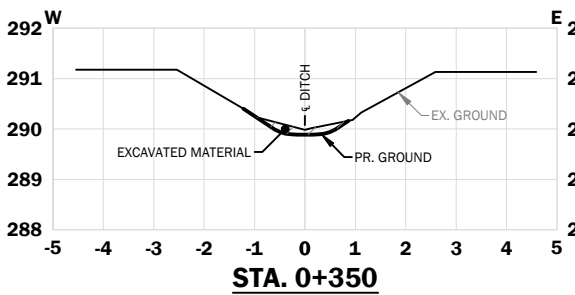
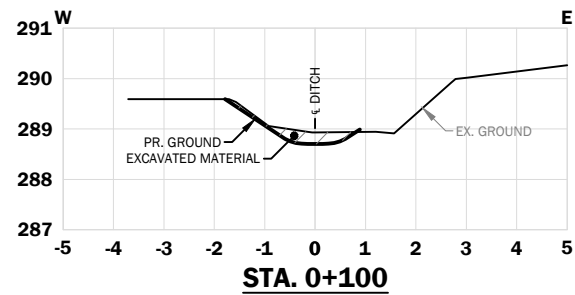
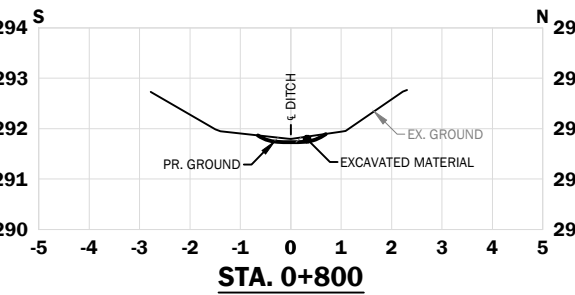
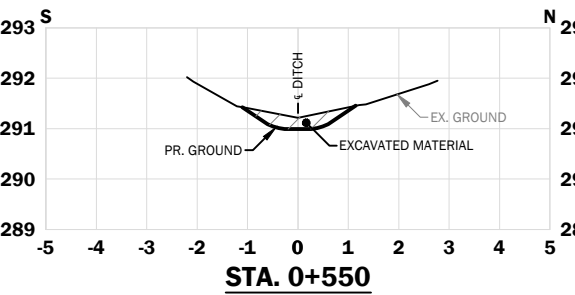
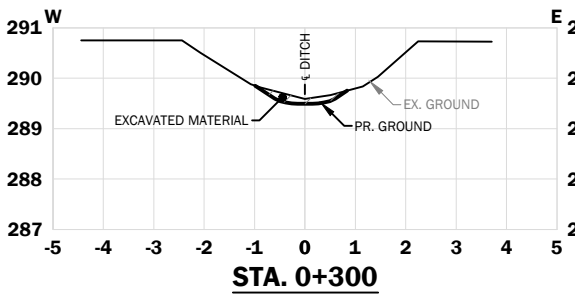
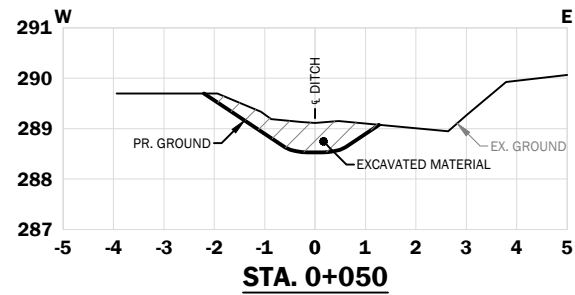
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| 3 | REPORT SUBMISSION | 24-08-16 |
| 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
| 1 | ON-SITE MEETING | 22-12-13 |
| No. | REVISION | DATE (YY-MM-DD) |



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|---------------------|---------------------------|--------------------------|
| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 1.1 OF 13 |

BENCHMARK DESCRIPTIONS

- BENCHMARK No. 1** ELEV.=285.09
TOP CENTRE UPSTREAM END OF CONC BOX CULVERT AT STA. 0+013 (MAIN)
- BENCHMARK No. 2** ELEV.=288.56
TOP DOWNSTREAM END OF 3.7m X 2.5m CSPA CULVERT AT STA. 0+896 (MAIN)
- BENCHMARK No. 3** ELEV.=288.52
TOP UPSTREAM END OF 1400mmØ CONC CULVERT AT STA. 1+095 (MAIN)
- BENCHMARK No. 4** ELEV.=289.97
TOP DOWNSTREAM END OF 1000mmØ CSP CULVERT AT STA. 2+435 (MAIN)
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TOP DOWNSTREAM END OF 400mmØ CSP CULV 9m NORTH OF STA. 0+932 (BR. C)
- BENCHMARK No. 8** ELEV.=293.99
TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D)



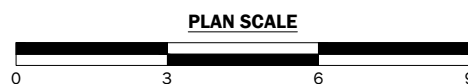
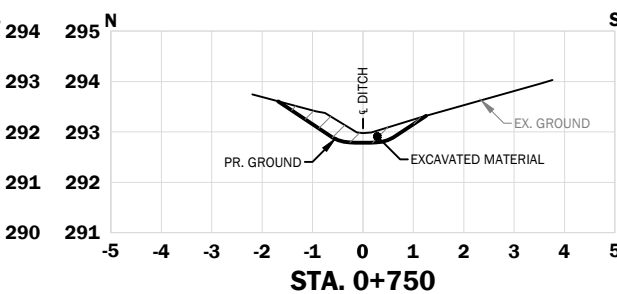
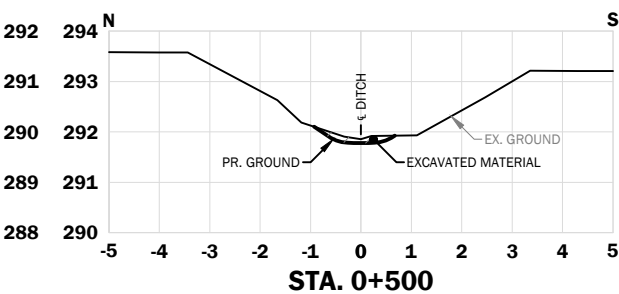
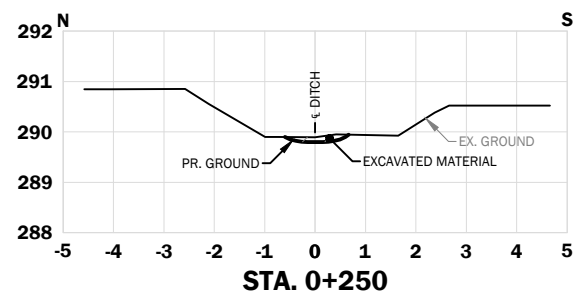
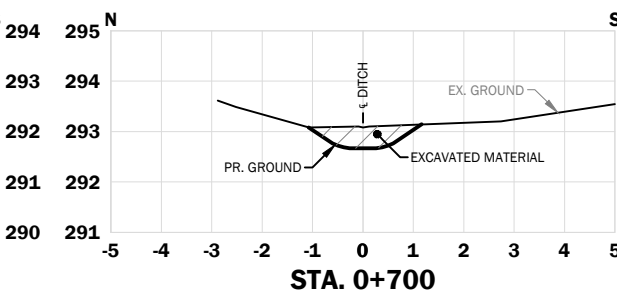
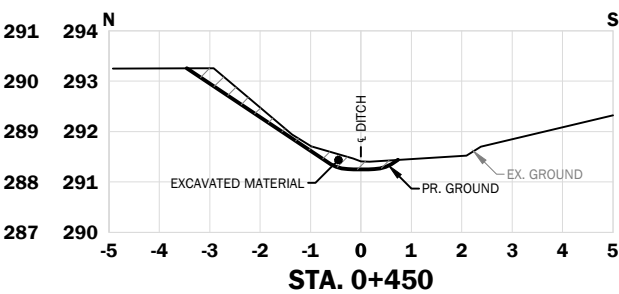
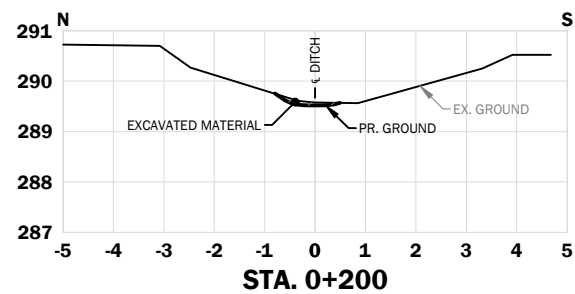
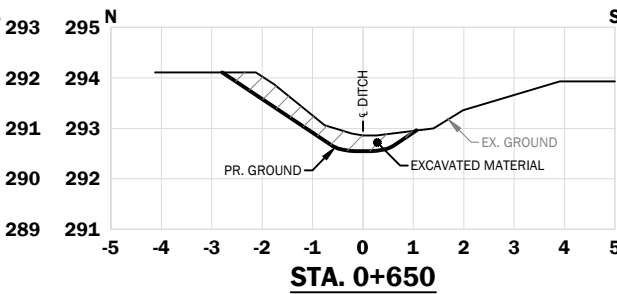
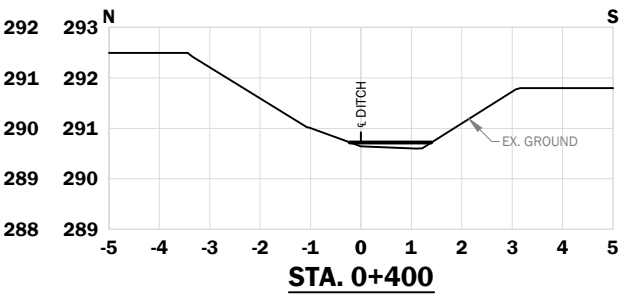
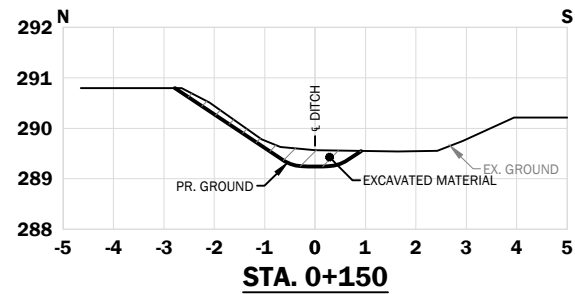
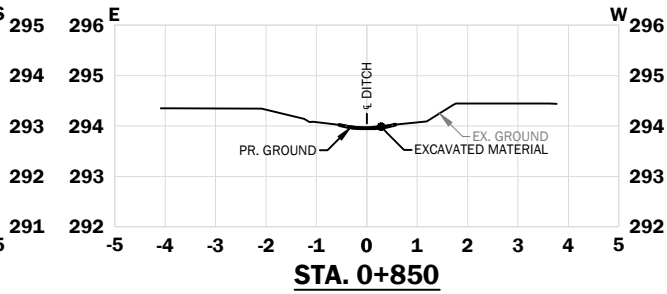
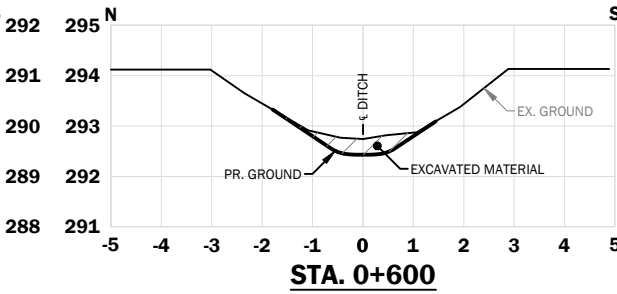
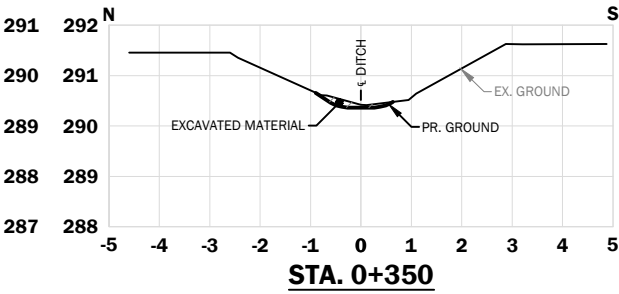
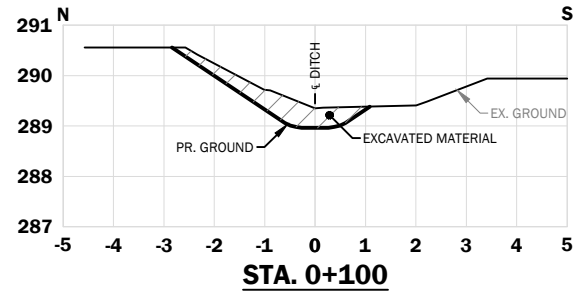
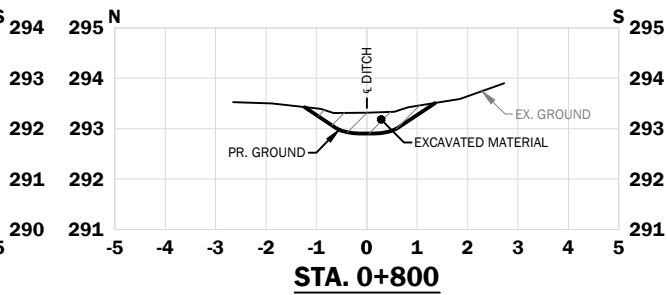
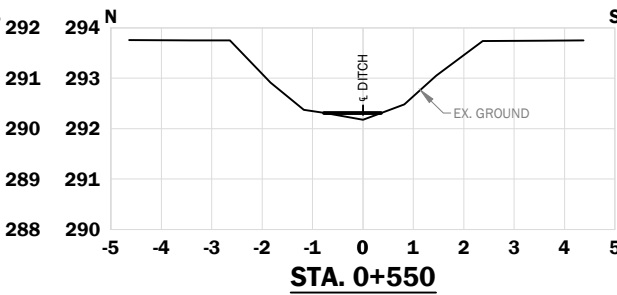
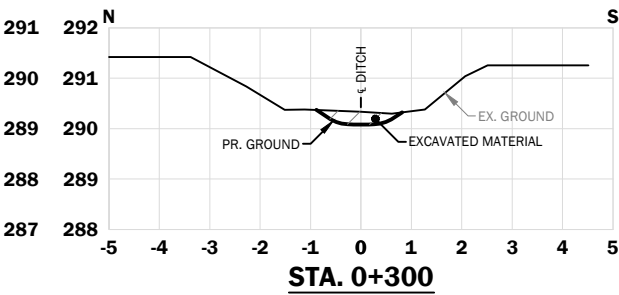
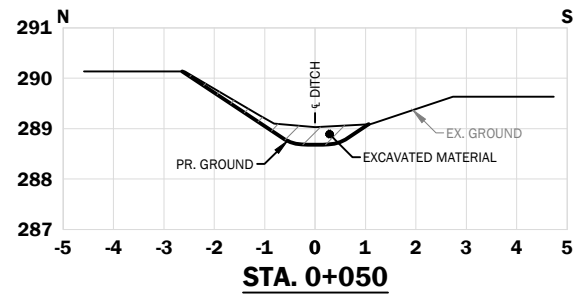
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| 3 | REPORT SUBMISSION | 24-08-16 |
| 2 | PUBLIC INFORMATION MEETING | 24-05-01 |
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| No. | REVISION | DATE (YY-MM-DD) |



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| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 12 OF 13 |

BENCHMARK DESCRIPTIONS

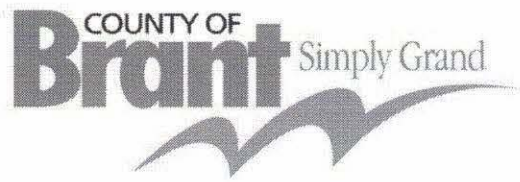
- BENCHMARK No. 1** ELEV.=285.09
TOP CENTRE UPSTREAM END OF CONC BOX CULVERT AT STA. 0+013 (MAIN)
- BENCHMARK No. 2** ELEV.=288.56
TOP DOWNSTREAM END OF 3.7m X 2.5m CSPA CULVERT AT STA. 0+896 (MAIN)
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TOP UPSTREAM END OF 1400mmØ CONC CULVERT AT STA. 1+095 (MAIN)
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- BENCHMARK No. 8** ELEV.=293.99
TOP DOWNSTREAM END OF 600mmØ CONC CULVERT AT STA. 0+826 (BR. D)



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| DRAWN BY: R.U. | DESIGNED BY: M.T. | CHECKED BY: S.B. |
| DATE: 2024-08-16 | REFERENCE No. BRNT-002 | DRAWING No. 13 OF 13 |



The Corporation of the County of Brant

September 25, 2024

Township of Blandford-Blenheim
Ms. Sarah. Matheson, Clerk
47 Wilmot Street South
Drumbo, ON J0J 1G0

Dear Mayor Peterson and Council Members

Re: Mitchell Municipal Drain

Please be advised that at their meeting held on Tuesday September 24, 2024, the Council of the County of Brant held the Consideration of the Engineers Report for the Mitchell Municipal Drain. Council further set the date for the sitting of the Court of Revision (CoR) to be held Tuesday October 22, 2024, at 4:00 pm in the Council Chambers, 7 Broadway Street West, Paris ON.

The Drainage Act requires that where the lands assessed for drainage works extend into a neighbouring municipality, the Court of Revision shall consist of two (2) members appointed by the initiating municipality and one (1) member appointed by each of the neighbouring municipalities. Please select and appoint a member to sit at this Court of Revision on your behalf.

Enclosed you will find the Notice of Sittig of the Court of Revision and a copy of the Provisional By-law 100-24.

If you have any questions on the process, please do not hesitate to contact the Clerk's Department at 519-442-7268 or clerks@brant.ca.

Sincerely,

Briar Allison
Acting Director of Council Services, Clerk
County of Brant
clerks@brant.ca
(519) 442-7268 ext. 2207

Enclosure

BY-LAW NUMBER 100-24

-of-

THE CORPORATION OF THE COUNTY OF BRANT

To provide for drainage works in the County of Brant (Mitchell
Municipal Drain)

WHEREAS the Council of the Corporation of the County of Brant has appointed Headway Engineering by resolution under Sections 78 of the Drainage Act, to prepare a report to replace existing farm crossing culverts, add new crossings, and upgrade the existing tile drainage system;

AND WHEREAS the Council of The Corporation of The County of Brant has procured a report under Sections 78 of the Drainage Act, R.S.O. 1990, as amended, Chapter D.17, Headway Engineering, dated August 16, 2024, attached hereto as Schedule "A" and forming part of this by-law;

AND WHEREAS the estimated total cost to prepare the report for the drainage works is eight hundred twelve thousand dollars (\$812,000.00)

AND WHEREAS one hundred twenty-six thousand, two hundred seventy dollars (\$102,582.00) is the amount to be contributed by the municipality for the County land and road portions of the drainage works;

AND WHEREAS the Council is of the opinion that the proposed works are required;

NOW THEREFORE THE COUNCIL OF THE CORPORATION OF THE COUNTY OF BRANT
enacts as follows:

1. **THAT** the report prepared by Headway Engineering dated August 16, 2024, and attached hereto as Schedule "A" is hereby adopted
2. **AND THAT** the Corporation of the County of Brant may borrow on the credit of the corporation the amount of \$812,00.00 being the amount necessary for the preparation and construction of the report
2. **AND THAT** for paying the amount of one hundred twenty-six thousand, two hundred seventy dollars (\$702,270.00) being the amount assessed upon the lands and roads within the municipality, a special rate sufficient to pay the amount assessed, plus interest thereon, shall be levied upon the whole rateable properties in The Corporation of The County of Brant for one (1) year after the passing of this by-law to be collected in the same manner and at the same time as other taxes are collected
3. **AND THAT** the Corporation of the County of Brant may arrange the issue of debentures for the amount borrowed less the total of:
 - (a) grants received under Section 85 of the Drainage Act
 - (b) commuted payments made in respect of lands and roads assessed within the municipality
 - (c) moneys paid under Section 61(3) of the Drainage Act

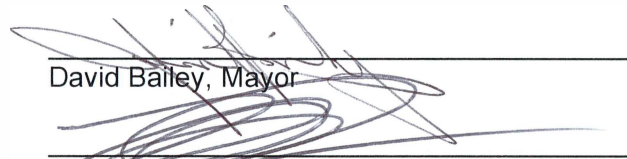
(e) money assessed in and payable by another municipality, and such debentures shall be made payable within five (5) years from the date of the debenture and shall bear interest at a rate not higher than the rate charged by Infrastructure Ontario on the date of sale of such debenture.


And such debentures shall be made payable within ten (10) years from the date of the debenture and shall bear interest at the rate prevailing at the time the debenture(s) is/are sold by the County of Brant.

- 4. **THAT** all assessments of One Thousand Dollars (\$1000.00) or less are payable in the first year in which the assessment is imposed.
- 5. **THAT** this by-law comes into force on the passing thereof and may be cited as the Bishopsgate Municipal Drain.

READ a first and second time and provisionally adopted, this 24th day of September 2024.

THE CORPORATION OF THE COUNTY OF BRANT



David Bailey, Mayor


Briar Allison, Deputy Clerk

READ a third time and finally passed in Council, this ___ day ___ of 2024.

THE CORPORATION OF THE COUNTY OF BRANT

David Bailey, Mayor

Briar Allison, Deputy Clerk

THE CORPORATION OF THE
TOWNSHIP OF BLANDFORD-BLENHEIM
BY-LAW NUMBER 2458-2024

Being a By-law to confirm the proceedings of Council.

WHEREAS by Section 5 of the *Municipal Act* 2001, S.O. 2001, c.25, the powers of a municipal corporation are to be exercised by its Council.

AND WHEREAS by Section 11 of the *Municipal Act* 2001, S.O. 2001, c.25, the powers of every Council are to be exercised by by-law;

AND WHEREAS it is deemed expedient that the proceedings of the Council of the Corporation of the Township of Blandford-Blenheim at this meeting be confirmed and adopted by by-law;

NOW THEREFORE the Council of the Corporation of the Township of Blandford-Blenheim hereby enacts as follows:

1. That the actions of the Council of the Corporation of the Township of Blandford-Blenheim in respect of each recommendation contained in the reports of the Committees and each motion and resolution passed and other action taken by the Council of the Corporation of the Township of Blandford-Blenheim, at this meeting held on October 16th, 2024 is hereby adopted and confirmed as if all such proceedings were expressly embodied in this by-law.
2. That the Mayor and proper officials of the Corporation of the Township of Blandford-Blenheim are hereby authorized and directed to do all things necessary to give effect to the actions of the Council referred to in the proceeding section hereof.
3. That the Mayor and the Clerk be authorized and directed to execute all documents in that behalf and to affix thereto the seal of the Corporation of the Township of Blandford-Blenheim.

By-law read a first and second time this 16th day of October, 2024.

By-law read a third time and finally passed this 16th day of October, 2024.

MAYOR
MARK PETERSON

CLERK
SARAH MATHESON