



**WEST HANTS REGIONAL MUNICIPALITY REPORT**

Information <input type="checkbox"/>	Recommendation <input checked="" type="checkbox"/>	Decision Request <input type="checkbox"/>	Councillor Activity <input type="checkbox"/>
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**To:** Mayor Zebian and Members of West Hants Regional Municipality Council.

**Submitted by:** \_\_\_\_\_  
Saira Shah, Planner

**Date:** 2021-04-27

**Subject:** File 19-05 D Meadows Development

**LEGISLATIVE AUTHORITY**

Municipal Government Act Section 229 and 230.

**RECOMMENDATION or DECISION REQUEST**

Should Council wish to allow the requested development agreement and discharge the current development agreement, the following motion would be in order:

that Council gives gives Second Reading to and approves entering into a development agreement to allow two-unit residential uses at PID 45371879, 45383379, 45371887, and 45383957, Falmouth, in a manner substantively the same as the draft set out in Attachment C of the report to Council dated April 27, 2021, taking note that this development agreement will discharge and replace the development agreement for PID 45371879 recorded at the Registry of Deeds on September 27, 2007 as document 88923751.

**BACKGROUND**

Property <input checked="" type="checkbox"/>	Public Opinion <input type="checkbox"/>	Environment <input type="checkbox"/>	Social <input type="checkbox"/>	Economic <input type="checkbox"/>	Councillor Activity <input type="checkbox"/>
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Brison Developments Limited applied for a development agreement to permit two-unit residential development at PID 45371879, 45383379, 45371887, and 45383957, Falmouth, West Hants. On December 11, 2020 the applicant requested that staff consider three and four-unit dwellings in addition to the two-unit dwellings requested but withdrew the request on February 23, 2021.

There is a registered development agreement between Meadows Development Limited (former owners) and the Municipality on PID 45371887 in August 2007 to permit eight (8) semi-detached dwellings. Brison Developments Limited wishes to discharge that agreement as part of this application.

A Public Information Meeting was held on January 19, 2021 and comments were accepted from the public until February 9, 2021. (Attachment A)

On March 11, 2021 staff presented a recommendation report to the Planning Advisory Committee (PAC) (Attachment B).

PAC recommended in favour of the development agreement on March 11, 2021. PAC discussed additional requirements to try to ensure there is variation in the design of the dwellings but after the applicant clarified the design elements are predominantly determined by the prospective property owner, PAC recommended the development agreement as drafted.

Council held First Reading for this application on March 23, 2021. Staff presented three (3) proposed changes to the development agreement:

- that the most recent stormwater management plan completed on July 16, 2020 be attached to the development agreement;
- that the minimum flankage yard requirement for single unit dwellings on corner lots be reduced from 25 ft. to 15 ft. (requested by the applicant on March 23, 2021); and
- that a phrase be added to the development agreement to permit the Development Officer, in consultation with the Municipal Engineer, to consider minor incidental changes to the stormwater management plan without having to amend the agreement (request by the applicant on March 23, 2021).

Council voted to hold a Public Hearing for the development agreement with the additions noted above. The development agreement with the additions is attached as Attachment C.

## **NEXT STEPS**

The process for this application is as follows:



**next meeting of Council- April 27**



**Council completes Public Hearing and  
holds Second Reading- May 25**



Appeal Period



Notice of Approval in Local Paper

**FINANCIAL IMPLICATIONS**

There are no financial implications to the Municipality in relation to the filing of this report.

**ALTERNATIVES**

In response to the application, Council may decide to:

- approve the development agreement as drafted; or
- refuse the development agreement as drafted noting the criteria that has not been met.

**ATTACHMENTS**

- |              |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|
| Attachment A | 2021-01-19 File#19-15A Public Information Meeting Notes<br>Meadows Development    |
| Attachment B | 2021-03-11 File #19-15B Recommendation Report Meadows<br>Development              |
| Attachment C | 2021-04-27 Draft Development Agreement as revised by Council<br>on March 23, 2021 |

**CHIEF ADMINISTRATIVE OFFICER REVIEW**

I have reviewed all aspects of the report and encourage Council to accept the recommendation as prepared.

Report Reviewed by: \_\_\_\_\_  
Madelyn LeMay, Director of Planning and Development

Report Approved by:  \_\_\_\_\_  
Mark Phillips, Chief Administrative Officer

**Attachment A**  
**2021-01-19 File#19-15A Public Information**  
**Meeting Notes Meadows Development**

**Public Information Meeting Notes**  
**January 19, 2021**  
**File 19-15 A**  
**Meadows Development**

<b>Meeting date and time</b>	A public information meeting (PIM) was held on January 19, 2021 beginning at 6 p.m. The meeting was broadcast live on the Municipal Facebook page.
<b>Attending</b>	In attendance: One (1) Councillor: Councillor Murphy Mayor Zebian CAO Phillips Planner Shah Planner Poirier Chris Markides (Applicant's Planner) Jim Davidson (Resident) As this meeting was held virtually other members of the public viewed the meeting on facebook.
<b>Applicant Overview</b>	Planner Shah outlined the request from Brison Development Limited to permit two, three, and four-unit dwellings on four (4) properties in Falmouth.  Note: On February 23, 2021 the applicant withdrew their request for three and four-unit dwellings and asked to proceed with an application for two-unit dwellings. An additional Public Information Meeting is not necessary as two-unit dwellings were discussed at this February 19, 2021 PIM
<b>File Number</b>	19-15 A
<b>Comments</b>	Comments from the public could be submitted by mail, e-mail, telephone or dropped-off at the Municipal Office to Planner Shah.  Twenty written comments, five (5) facebook comments and four (4) verbal comments were received from the public. Emails and letters are attached. Staff responses are included in purple.  Questions from the public included: <ul style="list-style-type: none"> <li>• will there be public park space?</li> <li>• yes, the Subdivision By-law requires a parkland contribution and the applicant has indicated in the concept plan they intend to provide land for the parkland contribution.</li> </ul>

	<ul style="list-style-type: none"><li>• why will the parkland only be developed at the end of the process?</li><li>• the Municipality entered parkland agreements with the developer in 2011 and 2012 which enable the developer to provide the parkland to the Municipality after the final plan of subdivision has been approved.</li><li>• what is the planning recommendation based on?</li><li>• it's based on the policies set by Council. Planners work with Council to develop the policies but ultimately Council determines what criteria will be used to evaluate applications and planners can only assess an application for development agreements based on the criteria.</li><li>• what is the policy document that governs the public consultation process?</li><li>• the Public Participation Policy and the Municipal Government Act.</li><li>• how is feedback used?</li><li>• feedback received is shared with the Planning Advisory Committee in the Public Information Meeting Notes.</li><li>• given the stormwater issues in the past could the notification area be expanded beyond 500 ft. to include residents along Elderkin Creek Drainage System?</li><li>• Council sets the notification area in the West Hants Land Use By-law and staff do not extend that area without Council permission.</li><li>• has the planning department done an assessment of the current and future water, sewer, storm drainage, and traffic needs?</li><li>• water, sewer, storm drainage and traffic capabilities are considered during the staff review as Council has set specific criteria related to these issues. Comments on these issues are requested from the Public Works Department and Department of Transportation and Infrastructure Renewal.</li><li>• will cable and electrical services be above or below ground?</li><li>• the municipality does not regulate cable and electrical services.</li><li>• have schools, fire protection, policing, and hospitals been considered?</li><li>• there are criteria related to schools and fire protection which are addressed in the staff</li></ul>
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review. Comments on these issues are requested from the Valley Regional Education Centre and the fire chief for the area concerned. There are no criteria related to policing or hospital capability.

- why are eight (8) semi-detached dwellings permitted in the existing development?
- there is an existing development agreement which permits eight (8) semi-detached dwellings. This was approved by Council on September 12, 2005
- are there housing plans for the entire community?
- there are specific policies and designations for housing in the Falmouth Growth Centre in the Municipal Planning Strategy.
- are two, three, and four-unit dwellings permitted in all phases?
- the applicant has withdrawn their request for three and four-unit dwellings. Only single and two-unit dwellings are permitted in all phases as now requested and drafted in the agreement.
- will there be rental units within this development?
- the Municipality does not regulate ownership type.
- how can the Municipality consider the application if the lot layouts and exact number of two-unit dwellings proposed are not outlined in Phase 3?
- the lot requirements and percentage of single unit dwellings required are outlined in the text of the development agreement. This is similar to zoning requirements in the Land Use By-law. The maximum number of units is in the concept plan for Phase 3.
- why is landscaping and buffering not required between the new development and existing developed properties?
- staff considered landscaping and buffering requirements based on potential land use conflicts. Details are outlined in the recommendation report.
- one resident had many specific questions related to flooding and water servicing that have been directly addressed by the Director

of Public Works. Both questions and responses are attached.

Discussion points included:

- general opposition to multi-unit dwellings (two, three, and four-units) as this could impact property values
- many residents expected the remainder of the development to be single-unit dwellings based on advertisements for the development and the covenants that apply to properties on Clover Lane and did not appreciate a change to the development plan
- some residents felt multi-units would not fit with the current development pattern in Falmouth and this application would encourage more suburban style development similar to Sackville
- many residents felt multi-units would increase traffic in the area and could increase water bills to service the new development
- some owners of lands nearby the development, and outside the area of the development agreement, fronting on Clover Lane, with an easement for municipal services have concerns about the developers plans to use the easement as a pedestrian path
- many residents commented on infrastructure being installed for two-unit dwellings before Council approved the application and felt the decision had already been made
- some residents felt semi-detached dwellings have a negative connotation even if high quality finishes are used
- general opposition to rental units was expressed by some residents
- other residents mentioned not being opposed to semi detached dwellings if built well and if they have character
- a few residents raised concerns about the parkland site outlined in the concept plan as they felt it is not suitable due to the slope/steepness of the site
- some residents felt the development should not be considered unless all lot layouts are included in the concept plan
- parking was raised as a concern by some who felt visitor parking requirements would be beneficial

	<ul style="list-style-type: none"><li>• one resident felt the percent of single unit dwellings required in the policy was not sufficient and suggested a 60/40 or 50/50 split between single unit dwellings and multi-units.</li></ul> <p>The applicant stated the response from the Department of Transportation and Infrastructure Renewal on the criteria sufficiently addresses traffic concerns. The applicant has withdrawn the request for three and four-unit dwellings which addresses many of the concerns raised.</p>
<b>Adjournment</b>	<p>The presentation portion of the PIM ended at 6:17 p.m.; comments could be submitted by the public by mail, e-mail, telephone, or dropped-off at the Municipal Office to Planner Shah until February 9, 2021 due to snow closures on February 8, 2021.</p>

February 5, 2021

Saira Shah  
Planner  
West Hants Regional Municipality  
P.O. Box 3000, 76 Morrison Drive  
Windsor, N. S.  
B0N 2T0

Subject: Regarding Public Meeting As of January 19, 2021

I am a resident of Falmouth and choose this area to live and bring up my family because of the country setting and the tranquil atmosphere in the community. I now have a few concerns regarding the Meadows Sub Division proposal as I think this could set an undesirable precedent for development in all of Falmouth.

- 1) I am greatly concerned about the multi family housing that will put a great demand on our water and sewage services. If the additional housing causes upgrades to the system I assume that all tax payers will be responsible for the costs. The increases to our water bills since amalgamation are UNBELIEVABLE therefore one cannot imagine what the taxes will be. It is my understanding that Falmouth is zoned R1 and not for multi homes such as 2, 3 and 4 unit buildings.
- 2) Falmouth Elementary School is now at it's capacity, with numerous portables, and how will additional students be handled?
- 3) Property on Falmouth Dyke Road is owned by the same developer and I have concerns as to how this will be developed and the congestion that Dyke Road will be faced with. The country setting will soon disappear and be less appealing to future buyers.

I feel the development in Falmouth will be far less appealing if this type of housing becomes dominant in our area.

Sincerely,



Derek Fleming  
417 Falmouth Back Road  
Falmouth, N.S.

c.c. Richard Murphy

## Questions from Lee Chalmers (Falmouth resident) in response to proposed Development Agreement for the Meadows Phase 2 Development

Thank you for the opportunity to submit questions regarding the Meadows Development Agreement. I have identified four areas where I have questions (the number/configuration of dwelling units in the proposed development, stormwater management, capacity of the sewer system, and capacity of the water system). My questions pertaining to each area appear below, prefaced in each case by some background notes.

In your response, I would very much appreciate receiving the details of the specific data you have that address my questions.

### Number/Configuration of Dwelling Units

The public information meeting of January 19, 2021, indicated that Brison Developments Ltd. had applied for a development agreement in December 2019 to permit two-unit residential development in Falmouth and had requested in December 2020 that this be extended to include three- and four-unit dwellings. At this meeting, Chris Markides, from ZZap (Zwicker, Zareski Architecture and Planning), presented a site plan for the Meadows, and the public were invited to submit comments and questions regarding this proposal.

Unfortunately, the site plan presented pertained only to single and two-unit residential development. No information has been provided to date about what is being proposed in terms of three- and four-unit residential development on the Meadows site or the overall configuration of 1-4 unit housing. Without these details, it is difficult to comment on the merits of the proposal, for the number of possible dwelling units, by my count, could range from 83 (as proposed by the ZZap site plan<sup>1</sup>) to 130 (perhaps higher).<sup>2</sup>

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<sup>1</sup> ZZap Site Plan: The Meadows, Version 104 (June 8, 2020). While the unit summary in the ZZap site plan identifies 10 R1 units as part of Phase 2B, the site map identifies 11 units, suggesting a total of 83. The lot on the corner of Falmouth Back Road and Clover Lane may account for the discrepancy. A copy of the site plan has been appended for convenience.

<sup>2</sup> Policy 5.4 of the *Municipality of the District of West Hants Municipal Planning Strategy* pertains to residential policies for Falmouth Growth Centre. Policy 5.4.4(d) requires that the gross density of a development not exceed 4.5 dwelling units an acre. Applying this requirement to Phases 1 and 2 (totaling 29 acres according to the ZZap site map) indicates 130 would be the maximum number of units allowed (29 acres X 4.5 dwellings/acre = 130.5). If the parkland acreage is added to the calculations at this point in the development, the total acreage would be 33.8 and the maximum number of units would increase to 152.1. Policy 5.4.4(a)(i) stipulates “a minimum of 30 percent of the total number of dwelling units shall be single unit dwellings.” Allowing Phase 1 housing to count towards this requirement, Phase 1 and 2 of the proposed development allow for 39 single-unit homes (21 at Phase 1 (Clover Lane), 7 at Phase 2a (Clover Lane Extension) and 11 at Phase 2b (ten at circle end of Thistle St and one at corner of Clover Lane and Falmouth Back Road)). Applying the 30% requirement to 39 single-unit homes yields 130 as the maximum number of dwelling units. Increasing the number of single-unit homes in the design would change this figure.

Both the Zzap site plan and the Valley Garden Homes' map of the Meadows site indicate that Phases 1 and 2 of the Meadows Development combined have 104 lots.<sup>3</sup> The Zzap site plan map indicates a total of 39 single-unit dwellings and 18 two-unit dwellings each straddling two lots (for a total of 36). Assuming 130 is the maximum number of dwelling units allowed, this leaves 55 dwelling units to spread out over the remaining 29 lots using some configuration of 1-4 unit dwellings. Compared to having single-unit housing on each of these final lots (104 units on 104 lots), including some configuration of 2-4 unit dwellings to achieve 130 total units represents an increase of 26 units. Similarly, assuming an average household size of 2.5 individuals<sup>4</sup>, shifting from single-unit residential to multiple-unit residential for Phase 2 of the Meadows Development would increase the anticipated population growth from a gain of 260 new residents to 325. By my calculations then (assuming a maximum of 130 dwelling units), the number of households/residents would increase by 25% with a shift from single-unit dwellings to allowing some multiple-unit dwellings.

The total number of units/households has implications for sewer and water capacity (in terms of the number of residents requiring service) and for stormwater management (e.g., in terms of the amount of impervious surface the development generates).

Question:

1. Can a site plan that details the total number of dwelling units and the intended mix of 1/2/3/4-unit housing for Phase 2 of the Meadows development (and as generally described in Policy 5.4.4(i) of the Municipal Planning Strategy) be provided to the public for comments/questions (as part of this public engagement process)?

**Stormwater Management**

I am encouraged to see that some Low Impact Development (LID) mechanisms (gravel swales with perforated pipes) have been incorporated in the stormwater management design for this phase of the Meadows development. I understand, from DesignPoint Engineering and Surveying, that the area draining from the Brison lands to the Shetland Rd Pond is being reduced from approximately 15.3 acres to 12.3 acres with this development, with most of the area for this development draining to the (new) stormwater management pond on Thistle Street. This would appear to bode well for ensuring post-development flows do not exceed pre-development flows at both the Shetland Rd Pond and the culvert across from it that goes under the Dyke Rd (and on to the Elderkin Creek Drainage System via the Connector Ditch).

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<sup>3</sup> I have referred to The Valley Garden Homes' map of the Meadows site as I found it offers a clearer (though somewhat different) picture of the type of housing envisioned for particular lots (retrieved February 7, 2021 from <https://valleygardenhomes.ca/the-meadows/>). The count of 104 lots is based on the Phase 1 and 2 boundaries indicated on the Zzap site plan map. A copy of the Valley Garden Homes' map is appended for convenience.

<sup>4</sup> Based on 2016 census information for Falmouth (<https://www12.statcan.gc.ca/census-recensement/2016/dp-pd/prof/details/page.cfm?Lang=E&Geo1=DPL&Code1=120016&Geo2=PR&Code2=01&Data=Count&SearchText=Falmouth&SearchType=Begins&SearchPR=01&B1=All>).

However, I do have some outstanding concerns in this regard. The July 16, 2020 issue (#4) of the Meadows Phase 2 Storm Drainage Environmental Protection Plan (DesignPoint Engineering & Surveying) indicates that post-development flows are expected to be less than pre-development flows for one in 10/25/50/100 year storm events for all four locations examined at the development site.<sup>5</sup> However, post-development flows are expected to exceed pre-development flows at 3 locations on the development site by .02-.19 cfs for a once in 5 year storm event. Comparable data for the Shetland Rd pond outlet and Dyke Rd culvert outlet locations were not presented, but history suggests that monitoring these locations as development proceeds would be prudent.

Testimony presented at the 2006 preliminary hearing of the Brison appeal<sup>6</sup> indicated that construction of the stormwater system for the Meadows at Shetland Road Development did not follow engineering plans. Revised assessments of pre-and post-development flows were included in the testimony, indicating that, using as built survey elevations, “a storm that occurs once in two years would generate 50% more stormwater flowing into the Dyke Road culvert post-development storm than pre-development” and that, after full construction of the system, post-development stormwater flows would exceed pre-development flows into the Dyke Road culvert by 128% for one in two year storms and 10% for once in five year storms (section 153). It is not clear whether steps were taken to bring these post-development flows back to pre-development flow levels. In any event, the revised assessments appear to point to the 1 in 2 and 1 in 5 year storm events as problematic for achieving a balance between pre- and post-development flows. The data provided by DesignPoint on the Meadows Phase 2 development indicate that, as noted above, post-development flows are expected to exceed (albeit modestly) pre-development flows for once in 5 year storms. The data presented in the 2006 testimony suggest that post-development flows are expected to exceed pre-development flows at the Dyke Rd culvert by a more substantial amount for once in 2 year storms. This would mean more stormwater flowing into the Connector Ditch and Gabriel Rd Properties Ditch and a greater risk of flooding for the adjacent properties along the Dyke Rd and Gabriel Rd. Unfortunately, no data on once in 2 year storms were included in DesignPoint’s July 16, 2020 issue of the Meadows Phase 2 Storm Drainage Environmental Protection Plan, and again, no pre-/post-development flow data for any storm events were provided for the Shetland Rd Pond/Dyke Rd culvert locations.

Questions:

1. Are there data available that address the question whether the proposed Meadows Phase 2 Development, as configured under the most recent ZZap site plan, is expected to increase flooding risk (as indicated by post-development flows exceeding pre-development flows) for properties on the East side of Falmouth Dyke Rd (where stormwater from the Shetland Rd

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<sup>5</sup> Drawing is appended for convenience.

<sup>6</sup> Brison, Re, 2006 NSUARB 113 (CanLII), <<http://canlii.ca/t/1pxbm>>, retrieved on 2020-10-09

pond enters the Elderkin Creek Drainage System through the Dyke Rd Culvert and Connector Ditch), including for one in 2 and one in 5 year storm events?

2. Given the deviations from engineering plans that occurred during construction of the Meadows at Shetland Road stormwater management system in 2005-2006, are mechanisms (e.g., third-party certified construction review) in place to ensure that the stormwater management system for the current phase is constructed according to plan and that post-development flow targets will be met?
3. We learned at the January 19<sup>th</sup> Public Information Meeting that Brison Developments requested on December 11/2020 that the 2019 application for a Development Agreement to permit two-unit residential development as part of Meadows Phase 2 be expanded to consider three- and four-unit dwellings as well. As such a change is likely to hold implications for stormwater management (e.g., with an increase in impervious surfaces, like roofs), there would seem to be a need to reassess the Storm Drainage Environmental Protection Plan developed by DesignPoint (and dated July 16/2020) to consider possible impacts on post-development flows. I recognize such a reassessment may need to await a final determination of how many of each size of dwelling (1-, 2-, 3-, and 4-units) would be built, but has this reassessment been conducted, and can the results be shared once they are available?
4. Who is assuming responsibility for pond maintenance (and its associated costs)?

## **Sewer Capacity**

First, some data that inform the issue of sewer capacity:

- The Municipality's website on "wastewater treatment" indicates that the Falmouth sewer treatment plant serves approximately 600 households and that it was built in 1975 and upgraded in 2009 and 2010.<sup>7</sup> A municipal staff person is quoted in a 2016 media report indicating that the Falmouth facility served between 500-600 homes at that time, and was processing between 400-600 cubic metres of wastewater a day, out of an approved 723.5 cubic metres a day maximum. He is also quoted as indicating an expansion to double the capacity of the Falmouth facility would cost between \$600,000 - \$800,000.<sup>8</sup>
- While the exact number of households to be added to Falmouth through Phases 1 and 2 of the Meadows Development is not yet clear, it would appear to be somewhere between 104 and 130 (though perhaps higher). This increase alone would bring the number of households relying on the sewer service to between 704-730. If 600 households have been generating a peak volume of 600 cubic metres of wastewater a day, then this addition appears set to bring the peak volume to between 704-730 cubic metres/day, a range that approaches and then exceeds the approved maximum of the

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<sup>7</sup> Retrieved Feb. 7, 2021 from <https://westhants.ca/rural-services.html>.

<sup>8</sup> Retrieved Feb. 7, 2021 from <https://www.saltwire.com/news/local/west-hants-windsor-fail-to-co-operate-on-joint-sewage-treatment-project-50284/>

facility. Any increase in households from other developments in Falmouth would also need to be taken into account (as well as the potential for up to 75 additional units at Phase 3 of the Meadows Development<sup>9</sup>).

And two additional points:

- It has been observed by local residents that the lift station located along Highway 1 between Gabriel Road and Falmouth Dyke Road already experiences periodic problems which result in wastewater overflow being directed into the field adjacent to the station.
- In the *Municipality of the District of West Hants Planning Strategy* (p. 38), the Council at the time acknowledged the concern of some Falmouth residents about the impact multi-unit residential development could have on the community. However, they pointed out that higher density development would allow the costs of needed service upgrades to the sewage treatment facility and water utility to be shared among more users, reducing the cost to individual households.

#### Questions:

1. Is the capacity of the current wastewater system (lift stations, treatment plant) able to handle the wastewater flows (including peak flows) projected with the increase in households?
2. On the face of it, the idea that higher density development, like the one proposed for the Meadows, will pay for needed service upgrades suggests that the development may precede the service upgrades. What are the timelines here? The danger, if upgrading fails to precede or at least keep pace with development, is that the period between the completion of the development and then the completion of the service upgrades would be one where our sewer and water utilities would be at heightened risk of being overloaded. How is this problem going to be addressed?

#### **Water Capacity**

Background notes:

- It was noted in the *Municipality of the District of West Hants Planning Strategy* (pp. 38, 112) that the Falmouth Water Utility required updates to the dam and reservoir “if it were to meet projected demand past 2016.” In 2006, the cost was estimated to be \$1.5 million (p. 112).
- The Municipality of West Hants indicated in its 2019 application to the Review Board to amalgamate West Hants’s 3 water utilities (section 62) that \$1.5 million was included in the 2021-2022 capital budget for the Falmouth Water Utility dam improvement project.<sup>10</sup>

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<sup>9</sup> Unit summary, Zzap site plan, Version 104, June 8, 2020.

<sup>10</sup> Retrieved Feb. 7, 2021 from <https://nsuarb.novascotia.ca/sites/default/files/M09013%20-%20Decision.pdf>

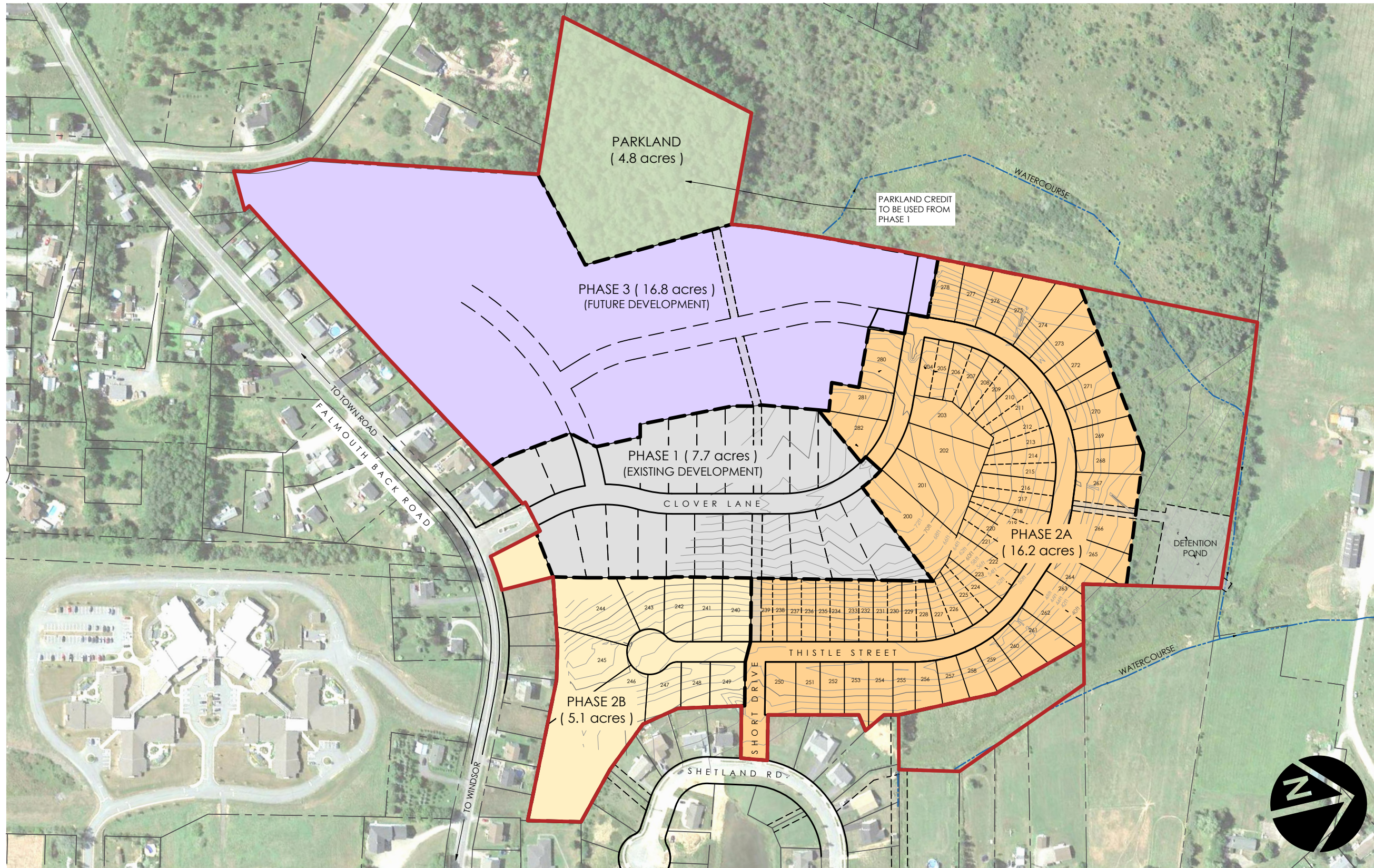
- The Municipality also indicated in its 2019 application that, because of supply forecasts, the dam needed to be raised to increase the available water yield from the French Mill Brook watershed (section 62).
- In its decision on the 2019 application, the Board noted the Municipality needs to seek Board approval of the proposed capital project (section 67).
- The West Hants Regional Municipality website indicates that the French Mill Brook watershed currently supplies water to approximately 780 households in the Falmouth Growth Centre.<sup>11</sup>

Questions:

1. What updates (from smaller, like new hydrants, to larger, like the dam project) are currently planned for the Falmouth Water Utility and are they sufficient to meet the increased demand on water services (for residential use, fire protection, etc.) that will accompany Meadows development (with the potential for 130 new dwelling units at Phase 2 and up to 75 additional units at Phase 3 to be added to the 780 households already being supplied by the French Mill Brook watershed)?
2. What is the timeline for implementing needed updates to the utility? Will the updates be implemented on a timeline that allows the Water Utility to keep ahead of the increased demand from this residential development?
3. Have the (shorter/longer-term) impacts of the dam/reservoir project on the French Mill Brook Watershed been assessed?
4. Has the dam/reservoir project been approved?

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<sup>11</sup> Retrieved Feb. 7, 2021 from <https://www.westhants.ca/water-treatment.html>. Also reported in March 2018 West Hants Planning and Development Department Background Report on Infrastructure (Report 6 of 9) (<https://westhants.ca/planning/west-hants-plan-review/2018-plan-review-reports/2150-6-04-23-2018-background-report-infrastructure-pdf/file.html>).



**LEGEND**

- Site Boundary
- - - - Adjacent Property Boundary

**UNIT SUMMARY**

	Area (acres)	Maximum Units
Phase 2A (R1)	16.2	36
Phase 2A (R2)		36
Phase 2B (R1)	5.1	10
<b>Total</b>	<b>21.3</b>	<b>82</b>

Phase 3 up to maximum of 75 units

**SITE SUMMARY:**

- Existing Zone: Multiple Residential
- Total Land Area: 56.7 acres

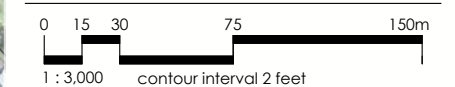
**NOTES:**

- Subject to survey. Property lines and topographic features are approximate only.
- Site subject to by-law review and regulations.

**SOURCES:**

- Plan based on DesignPoint Site Plan file: '14-033\_Base\_20200401.dwg'

**SCALE:**



**Zwicker  
Zareski  
architecture +  
planning**

**Site Plan : The Meadows**

Falmouth, Nova Scotia

1 Canal Street, Dartmouth, NS B2Y 2W1 ZZap.ca

**Version 104**

Designer: K.WATTERS  
Planner: C.MARKIDES  
Date: JUNE 08, 2020

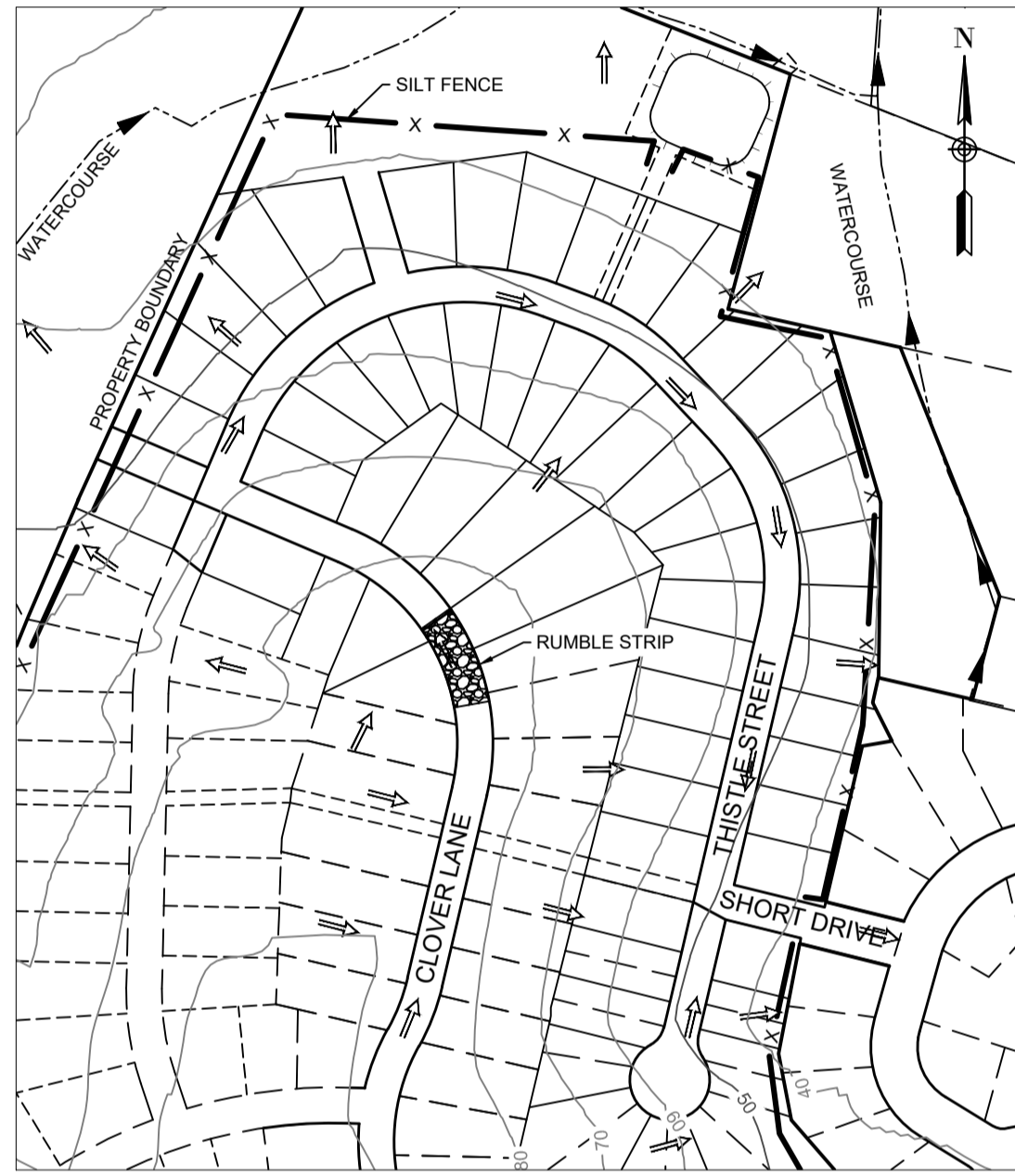


<https://valleygardenhomes.ca/the-meadows/>

# GENERAL EROSION AND SEDIMENT CONTROL NOTES

- EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
- ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA ENVIRONMENT REQUIREMENTS.
- CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY NOVA SCOTIA ENVIRONMENT.
- CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS ([https://weather.gc.ca/canada\\_e.html](https://weather.gc.ca/canada_e.html)).
- CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10 mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
- TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
- CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
- EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
- CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
- SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
- SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
- UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
- TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
- ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
- STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.).
- SITE ACTIVITY TO ADHERE TO REQUIREMENTS OF HALIFAX REGIONAL MUNICIPALITY TOPSOIL BY-LAW.
- ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
- SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.

## ENVIRONMENTAL PROTECTION PLAN



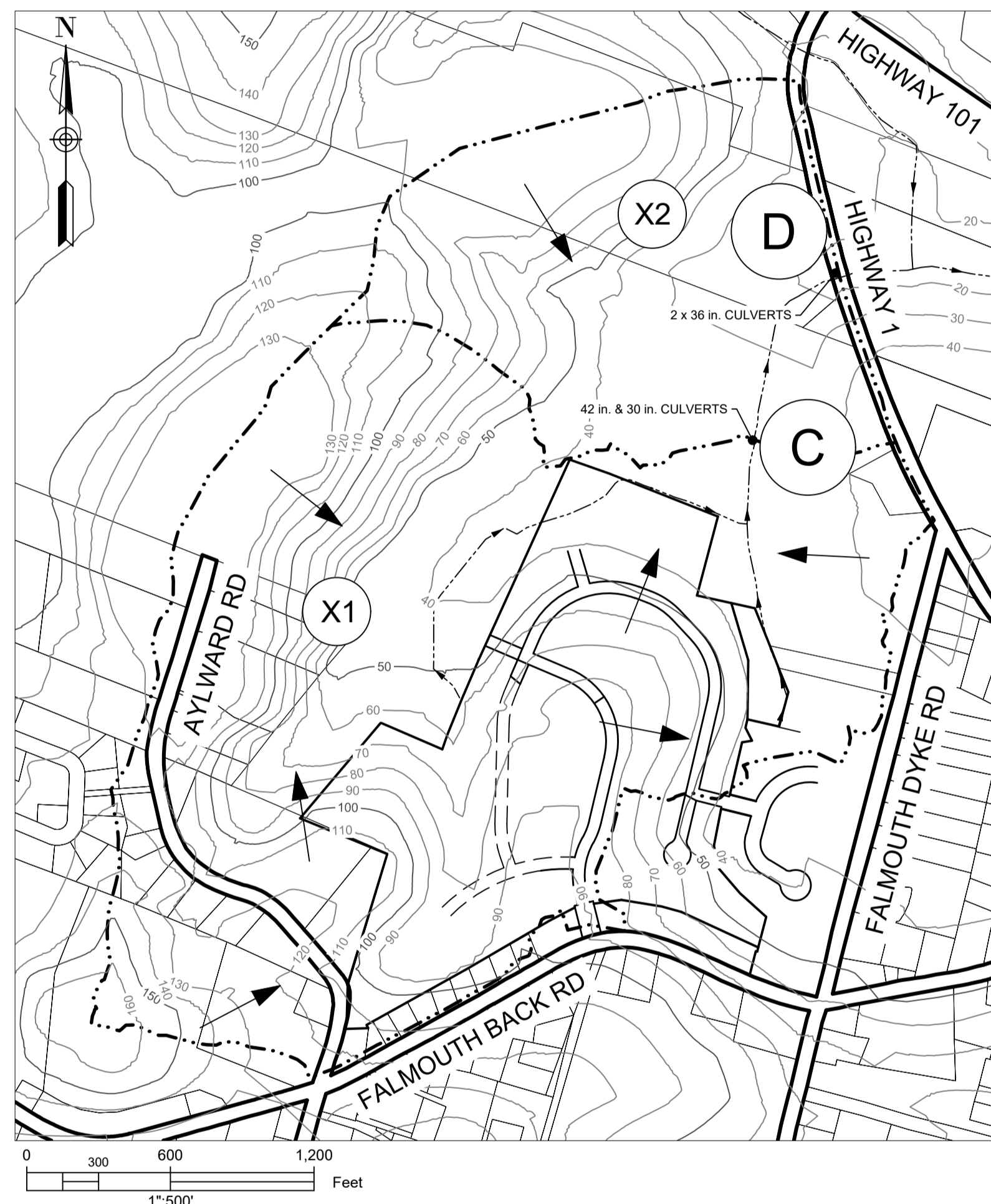
CATCHMENT	AREA (ac) ±	CN
A1	4.75	77
A2	1.47	77
A3	1.75	77
A4	0.81	77
A5	0.83	77
A6	2.16	77
B1	2.10	77
C1	2.06	77
C2	5.48	77
C3	4.80	77
X1	152.31	63
X1A	131.85	63
X2	56.23	63

FLOWES ARE BASED ON RAINFALL DATA FROM ENVIRONMENT CANADA - KENTVILLE 24 HOUR STORM.

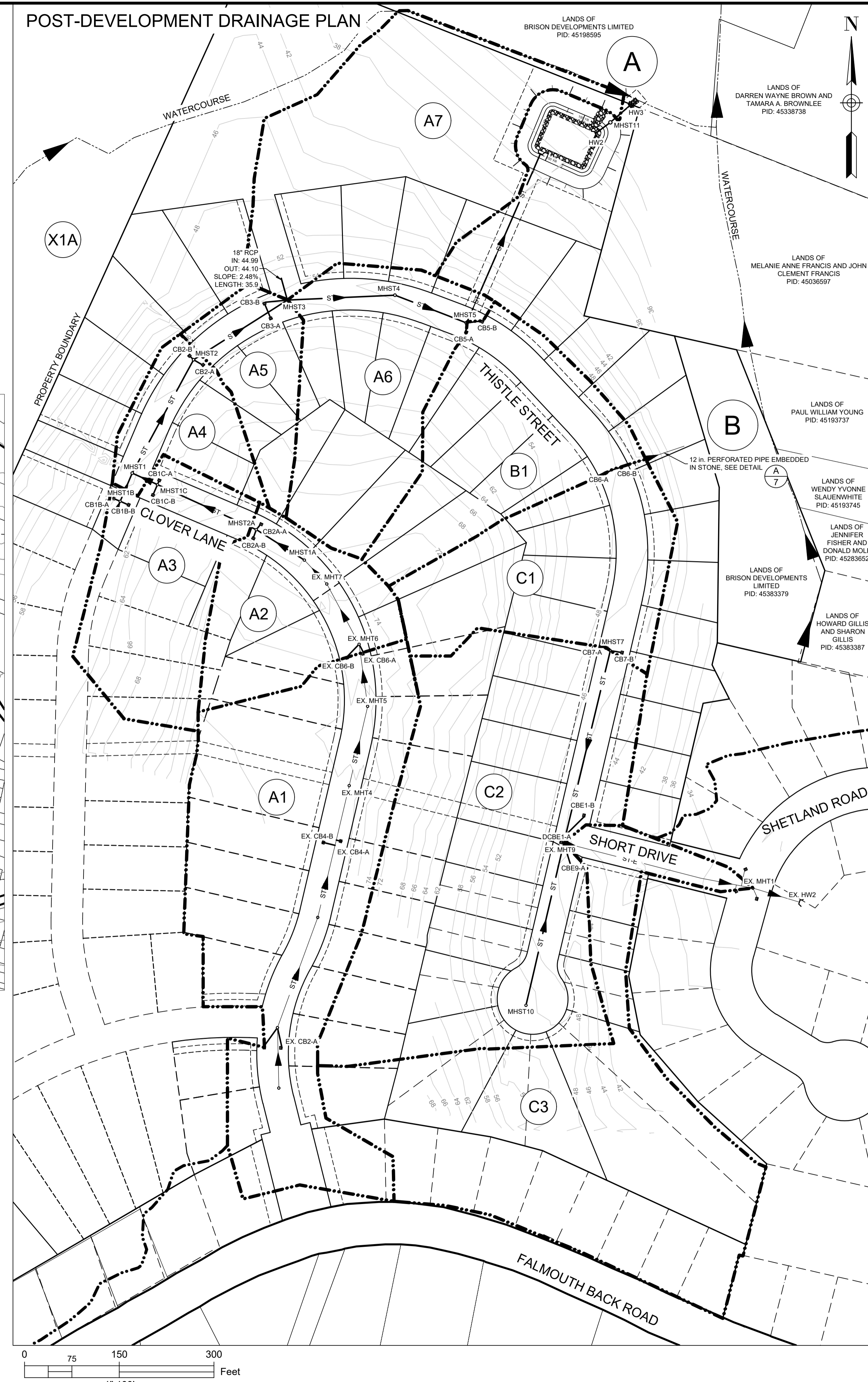
- 5-YEAR: 3.36 in.
- 10-YEAR: 3.84 in.
- 25-YEAR: 4.56 in.
- 50-YEAR: 5.04 in.
- 100-YEAR: 5.52 in.

APPROXIMATE POND/WATER ELEVATIONS (ft)	
BOTTOM	30.00
TOP	37.50
5-YR	32.84
10-YR	33.64
25-YR	34.34
50-YR	34.89

## PRE-DEVELOPMENT DRAINAGE PLAN



## POST-DEVELOPMENT DRAINAGE PLAN



- PRE-DEVELOPMENT DRAINAGE BOUNDARY
- POST-DEVELOPMENT DRAINAGE BOUNDARY
- STORM SEWER
- PRECAST HEADWALL
- TRIBUTARY AREA ID
- SILT FENCE
- MAJOR DRAINAGE ROUTE

**ISSUED FOR REVIEW  
NOT FOR CONSTRUCTION**

ISSUE	DATE	DESCRIPTION
4	JUL. 16, 2020	PERFORATED PIPE ADDED
3	JUN. 12, 2019	REVISED AS PER MDWH COMMENTS
2	NOV. 04, 2015	REVISED AS PER MDWH COMMENTS
1	MAR. 27, 2015	ISSUED FOR REGULATORY REVIEW

CONSULTANT

CLIENT

PROJECT DESCRIPTION

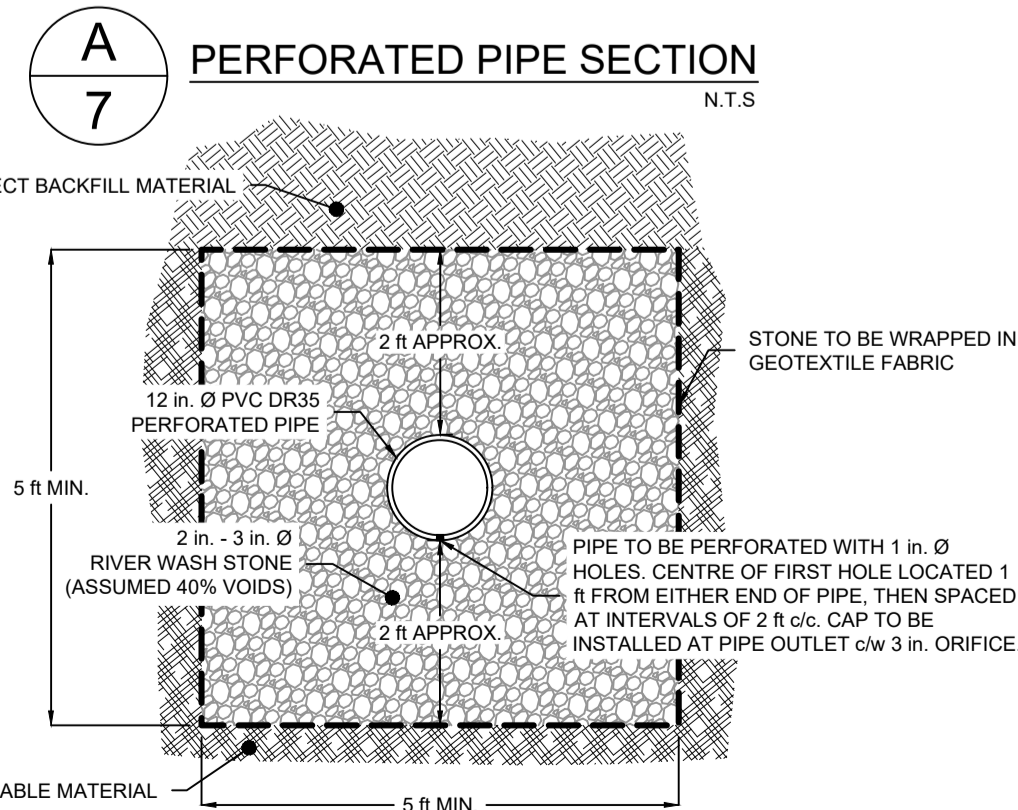
**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**STORM DRAINAGE /  
ENVIRONMENTAL  
PROTECTION PLAN**

STORM	FLOW TO POINT A (cfs)		FLOW TO POINT B (cfs)		FLOW TO POINT C (cfs)		FLOW TO POINT D (cfs)	
	PRE DEVELOPMENT	POST DEVELOPMENT	PRE DEVELOPMENT	POST DEVELOPMENT	PRE DEVELOPMENT	POST DEVELOPMENT	PRE DEVELOPMENT	POST DEVELOPMENT
5-YEAR	6.20	5.83	0.87	0.89	20.01	20.18	24.64	24.83
10-YEAR	9.49	7.6	1.51	0.91	32.3	31.98	39.12	39.03
25-YEAR	14.7	10.13	2.56	0.91	52.6	52	63.07	62.68
50-YEAR	18.66	12.89	3.37	0.91	68.19	67.59	81.08	80.7
100-YEAR	22.84	16.54	4.24	0.91	84.71	83.72	99.92	99.28

MINOR PIPED STORM SYSTEM DRAINAGE ANALYSIS - SCS METHOD								
UPSTREAM MH	DOWNSTREAM MH	TRIBUTARY AREA	TRIBUTARY AREA (ac)	Qd - DESIGN FLOW (cfs)	PIPE SIZE (in.)	PIPE SLOPE (%)	Qc - PIPE CAPACITY (cfs)	Qd/Qc
EX. 7	1A	A1	4.75	8.77	18	1.50	12.90	0.68
1A	2A	A1	4.75	8.77	18	3.25	18.99	0.46
2A	1C	A1-A2	6.23	10.29	18	4.00	21.06	0.49
1C	1	A1-A2	6.23	10.29	18	4.16	21.48	0.48
1B	1	A3	1.75	3.03	18	2.50	16.65	0.18
1	2	A1-A3	7.98	12.63	21	0.70	13.29	0.95
2	3	A1-A4	8.78	14.02	24	0.70	18.98	0.74
3	4	A1-A5	9.61	15.36	24	0.80	20.29	0.76
4	5	A1-A5	9.61	15.36	24	1.00	22.68	0.68
5	OUTFALL	A1-A6	11.77	18.77	30	0.75	35.62	0.53
CB6-B	OUTFALL	B1	2.10	3.12	12	5.00	10.38	0.30
7	EX. 9	C1	2.06	3.83	15	1.10	6.79	0.56
EX. 9	EX. 1	C1-C2	7.54	13.83	24	0.75	19.64	0.70
EX. 1	OUTFALL	C1-C3	12.34	22.55	30	0.50	29.08	0.78



Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 7 of 11
Date of 1st Issue MAR. 27, 2015	Scale AS NOTED	Filename 14-033CBase.dwg	

**Todd Richard, Director of Public Works, Response to Lee Chambers Questions on February 23, 2021**

1. Is there data available that addresses the question whether the proposed Meadows Phase 2 Development, as configured under the most recent ZZap site plan, is expected to increase flooding risk (as indicated by post-development flows exceeding pre-development flows) for properties on the East side of Falmouth Dyke Rd (where stormwater from the Shetland Rd pond enters the Elderkin Creek Drainage System through the Dyke Rd Culvert and Connector Ditch), including for one in 2 and one in 5 year storm events? (may be a question for Design Point, let me know and I can pass it along?)

Response: The Shetland stormwater pond was originally designed to accept stormwater water from part of the phase 2 Meadows lands and the pre/post balancing will take place in both the new and existing ponds. The designers of the Shetland Road project provided a 30" storm pipe to accommodate stormwater from the Meadows Phase 2 project. This connection has been made and the post development flow from the phase 2 Meadows land to this 30" pipe is approximately 23 cfs., while the pipe capacity is approx.. 29cfs. All indications are that less water will be released East of the Dyke Road.

2. On the face of it, the idea that higher density development, like the one proposed for the Meadows, will pay for needed service upgrades suggests that the development may precede the service upgrades. What are the timelines here? The danger, if upgrading fails to precede or at least keep pace with development, is that the period between the completion of the development and then the completion of the service upgrades would be one where our sewer and water utilities would be at heightened risk of being overloaded. How is this problem going to be addressed?

Response: All service upgrades for the proposed development itself are the responsibility of the developer. As development is being reviewed by the municipality the capacity of water and sewer systems is always a factor and consideration before approval is given. It has been determined that the existing potable water and sanitary sewer systems have adequate capacity to support this project.

3. What updates (from smaller, like new hydrants, to larger, like the dam project) are currently planned for the Falmouth Water Utility and are they sufficient to meet the increased demand on water services (for residential use, fire protection, etc.) that will accompany Meadows development (with the potential for 130 new dwelling units at Phase 2 and up to 75 additional units at Phase 3 to be added to the 780 households already being supplied by the French Mill Brook watershed)?

Response: Future water and sewer upgrades, replacements and any required expansions due to increased demand are part of our long term planning and water system assessments. We also operate and maintain our water systems to reduce water leakage and promote water conservation to help off-set costly capital projects. We have been successful in doing this through pressure management, leak detection / repair. Our current average daily usage is approximately 40% of the design capacity of the Falmouth WTP and approximately 67% design capacity for the Falmouth Wastewater Treatment Facility. The wastewater treatment facility in Falmouth received upgrades (phase 2) several years ago. Part of the design allowed for a phase 3 to be added for future growth and capacity if and when required.

4. What is the timeline for implementing needed updates to the utility? Will the updates be implemented on a timeline that allows the Water Utility to keep ahead of the increased demand from this residential development?

Response: Required upgrades for the water utility infrastructure are identified in our 5 year capital budget. We are currently working with professional consultants on reviewing all options for future growth in the service areas and with a regional approach. Consolidation has allowed us to take a more system wide approach and we are currently exploring the feasibility of connecting water systems that are currently independent to increase redundancy, capacity and resiliency.

5. Have the (shorter/longer-term) impacts of the dam/reservoir project on the French Mill Brook Watershed been assessed?

Response: As noted above this assessment is being reviewed / studied on a regional approach. Future water yield requirements for all systems will be part of this review.

6. Has the dam/reservoir project been approved?

Response: Due to ongoing water loss prevention and conservation efforts we have been able to reduce water demand, extending the time until dam upgrades are required. This item is identified in our capital budget for future years, if and when required.

February 5, 2021

Saira Shah  
Planner  
West Hants Regional Municipality  
P.O. Box 3000, 76 Morrison Drive  
Windsor, N.S. B0N 2T0

Subject: Public Meeting January 19, 2021 Regarding Phase (2A) (2B) & (3) Meadows Subdivision

Please Consider this letter as a response from a concerned citizen who owns property under construction at (Lot 101) #11 Clover Lane in the Meadows Subdivision.

We found the presentation to be less than transparent with what exactly is proposed for this Development Agreement Request. We believe that all the specifics of Phase 2A, Phase 2B and Phase 3 should be included in this agreement, i.e. all lots drawn in and type of homes with pictures included. It is apparent that the Development Agreement signed on September 27, 2007 regarding PID 45371887 was not adhered too and was extended. The developer is now trying to grandfather this agreement into Phase 2A but not at the agreed upon 8 two unit semi detached dwelling limit. He has expanded the original agreement of 8 two unit dwelling units to 18 units. That is more than double what was proposed and agreed to on September 27, 2007. This 2021 proposed development agreement does not include landscaping and buffering to screen views of this part of the development from existing developed properties.

We believe that Falmouth is the cash cow of the new municipality and that your current planning policy guidelines will not serve the Municipality well in the future. The single dwelling units in a development should be at least 60% not 30% of any new development and two unit semi detach buildings should be at least 3500 sq. ft. per unit not 2100 sq. ft. A change like that will make it in line with existing developed properties by reducing the dense row of houses and provide more greenery and trees.

We believe the developer should provide accurate details on the map they presented at the meeting. At one time walking access may have been accurate but now it is not accurate. Lots have been changed on the lot side of Clover Lane to eliminate that access, i.e. the Ford property and the one adjacent to it have eliminated that access. The lots in Shetland Road are supposed to be single dwelling but there is a semi detached two unit building as you approach the cul de sac. How did this get approved?? Or is it a legitimate nanny unit??

We are concerned about the current planning policy that allows parkland dedication to wait until the approval of the final plan of the subdivision. This green space should be established with each phase of the subdivision. People should not have to wait 10-20 years for it to be provided if at all. The idea that a developer can do all this construction and then deed over unsuitable land for parkland at the end of the development or just pay cash and not provide any recreation or parkland is definitely not in the interest of the people living in he subdivision or near by. Green space should not be for sale. That is a cash grab for general recreation funds.

With multiple dwelling units comes a higher density of homes, people and vehicle traffic. It will be unsafe for children to play on the street or for senior citizens to go for a walk. We should have walking trails built to facilitate usage for both children and seniors. We should have play ground facilities for recreation now not many years later or not at all.

Why not designate a smaller area in Phase 2B, Phase 2A and Phase 3. A great place would be near the pond in Phase 3 near Alyward Road. Children currently play hockey on the pond. We could have a walking trail and benches. The pond could be enhanced to allow and encourage wild life and be useful year round. The parkland already designated is too steep and difficult to develop as is and comes way too late in the development.

Why are there no parking places for visitors and extra cars associated with the higher density two unit dwellings? Where will visitors and extra cars park? How will snow plowing be affected by this oversight?

If Falmouth is a designated growth area for the municipality why not make it mandatory to have Falmouth Councillors on the Planning Committee?

We think if this plan goes forward as presented and as per the current Planning Policy; people who are attracted to the area which is primarily single unit living with green space, trees and good views will change their mind on moving to Falmouth and go elsewhere. A more enlightened approach would keep density lower, traffic flow lower and enhance the recreation and green spaces of subdivision development.

A reference was made with respect to the Crossings as an example of what to expect in Phase 2A. That development is very dense. There is row upon row of houses all similar in appearance. There are no green spaces. The views for the single unit homes are looking directly down on a well laid out but a very dense trailer court development. How does this protect property values and allow for the continuation of a complimentary and consistent pattern of development.

How does a higher density of homes impact the current sewer and water infrastructure? How fast do we have to plan and pay for additional facilities that all of us will be responsible for? Does it affect traffic patterns and school capabilities, etc?

How do we prevent the slippery slope when dealing with developers? They just give you a little information and then continue to apply for changes even in the same development.

No one in Phase 1 of the Meadows was made aware that the plans for the subdivision were going to change to a higher density. If we had a plan like the one shown on the billboard near the Clover Lane entrance that shows what the developer envisions for all phases 1,2A,2B and 3 at least people could make an informed decision when making one of the largest purchases of their life.

In closing, please consider a lower density of development in Phase 2A, Phase 2B and Phase 3 now. Provide green spaces at the beginning of a development not at the end. Avoid 3 and 4 unit options at all cost. Ensure that any development agreements outline the entire picture of the development at the beginning and include details of the phases so that people can make an informed decision when considering the purchase of a lot or home.

If this comes to a vote, even a tie breaking vote, I hope any Councillor or Mayor would excuse themselves from any plan or developer that may present a real or perceived conflict of interest.

Sincerely,



Jim Davidson



Zel Davidson

902-798-7844

cc: Richard Murphy

Dianne Parker  
59 Clover Lane  
Falmouth, NS  
B0P 1L0

RECEIVED

FEB 09 2021



February 7, 2021

Saira Shah  
West Hants Regional Municipality  
76 Morison Drive, PO Box 3000  
Windsor, NS  
B0N 2T0

Dear Saira,

My name is Dianne Parker and I am a resident of the Meadows Subdivision. I am writing in regard to the proposed development of two, three, and four unit residential houses in the Meadows Subdivision.

I am disappointed to say the least. When I purchased my lot in January 2016, I was under the impression the lots in the subdivision were for single-family homes only. If this proposal moves forward, will these multi-unit residential homes be of comparable value to the homes already built and have similar covenants? I am genuinely concerned these multi-unit homes will severely impact the sale of single-family lots on the street as well as the home value of current single-family homes built in the subdivision.

I personally know of two retired couples, moving here from other counties in Nova Scotia, who are considering buying a lot in the Meadows Subdivision. However, one of these families has expressed to me they will be reconsidering these plans as a result of the multi-unit proposal.


I have been informed that the ratio of multi-unit homes to single family homes, if the proposal moves forward, will be 70% to 30%. What is the reasoning for such a high percentage of multi-unit homes to single family homes? In my opinion, such an unbalanced ratio will make the area and the Meadows Subdivision much less appealing to potential single-family home buyers. If multi-unit homes are built in the Meadows, I believe a more equal ratio such as 50/50 or 60/40 would be more appropriate and be less likely to drive away potential single-family home buyers.

I am also concerned about the parking problems that could arise if this proposal goes forward. Will these multi units share a driveway, or will they each have their own? Extra cars parking on the street can create major safety issues, especially during the winter.

Further, green spaces play a major role in a development of this size. Grass, trees, benches and parks are key for such a family-oriented subdivision and would add great value to this community. It would be great to see a green space developed in the near future, hopefully during this upcoming summer. Are there any plans regarding the development of green spaces within the Meadows Subdivision?

Thank you for taking time to consider my questions and concerns. The decisions made with regards to the development of the Meadows Subdivision will have a vast impact on the sales of lots and future development in Falmouth. The decisions made with respect to this proposal are critical to attracting future buyers or turning them away. I look forward to your response.

Sincerely,



Dianne Parker  
902-798-0020

## Public Email Responses Submitted for the Meadows PIM

**Erin Fitzgerald January 12, 2021**

Looking to submit a question for the Meadows development meeting next Tuesday.

Q: Will the planned development include a public park space for the children living in the area? Will there be trails?

Thanks!

**Amy MacIntyre January 18, 2021**

Hi Saira,

I live on Clover Lane and I am concerned with the development proposal I received in the mail. We chose to build in this subdivision because it was supposed to be single family dwellings. Not only will this affect our property values, but it will alter the look and feel of our community. Our street has several young families and having 2,3, and 4 unit dwellings will greatly increase traffic on what is currently not a very busy street. We were expected to follow the covenants of the subdivision when we built and therefore I would expect the developer to return the courtesy of developing his subdivision as originally planned.

Thanks,

Amy MacIntyre

**Amy MacIntyre January 19, 2021**

Hi Saira,

I'd like to offer additional comments after watching that presentation. The person that represented Brison Developments was not prepared and could not answer important questions such as whether lots would be for sale or if similar covenants to clover lane would be enforced. This was very disappointing.

I can also say that not one person on my street that I have spoken to was under the impression when they built here that this was the plan for the rest of the development. The development sign that faced the back rd always showed further development behind both sides of Clover Lane and it was implied that the entire development was to be held to the same as Clover Lane (i.e. Single family dwelling with the same covenants. This was very misleading by the developer.

Thanks,

Amy MacIntyre

**Bill Preston January 21, 2021**

Hi Saira,,

I understand that the Meadow development may consist of maybe 3 phases 2, 2b and future phase 3. Where can I find information on those?

Best regards, Bill

**Lee Chambers January 22, 2021**

Good morning Saira,

Thank you so much for your email earlier this week. I would very much appreciate being added to your email-list for those who wish to be kept informed about this application.

I will be submitting some questions prior to the Feb. 8 deadline regarding the application. However, I have a few questions about the public consultation process itself that I hope you can help me with.

1. Can you direct me to the policy document that governs the public consultation process for municipal decisions like this one?
2. Looking at the overview of the process you provided, am I correct that there are two public hearings, one prior to the Council meeting (tentatively) scheduled for March 23 and a second prior to the second reading (Apr. 27)?
3. You mentioned notices are placed in the local paper. I have lived in Falmouth for over a year and a half, so I'm a bit embarrassed to say I don't know the name of the local paper or where to find it. So, a similar request, would you direct me to this source?
4. How do members of the public receive answers to the questions they submit? Is there an opportunity for follow-up questions, in response to the answers given? Are all of the questions submitted and answers provided included in the relevant PAC meeting package posted online?
5. Given possible implications for stormwater and sewer, it strikes me that it would make sense to extend notification beyond 500 feet to include, at least, residents of properties along the sewer line and Elderkin Creek Drainage System. Would this be possible?

Thanks so much. Hope you have a nice weekend.

Cheers, Lee C.

**Jill Ford January 26, 2021**

Re property at 39 Clover Lane(lot 107)

Property owners Jill and Bob Ford

Re the meeting on Jan 19,2021

Showing on the revised Developers plan

For rezoning there is an easement for a right of way between lot 107 and 108.

We do not have this easement in our deed or part of our plot plan!

Can you contact the Developer and get a clarification on this and get back to us!

Thanking you!

Jill and Bob Ford

**Stephane Richer January 24, 2021**

Hi Saira.

My name is Stephane Richer and I live at 12 Clover Lane, Falmouth. We spoke on Monday, 18 January about the proposed change to the zoning of Meadows Development; PID 45371879, 45383370, 45371887 and 45383957. I am writing this email to record my objection to the proposed zoning change.

When I purchased my home two years ago, I checked the zoning for the area and the covenants for Meadows Development and there was no mention of multi units homes allowed in the area. I am opposed to the change because I need to protect my investment as multi-unit homes will devalue my property. Like it or not, semi detached homes have a negative connotation no matter how upscale they are.

The presentation on Jan 19th mentioned that the Southern section of PID 45371887 would accommodate single detached homes but I walked the area and there are already two water lines going to each lot thus confirming semi detached will be built there. I find this somewhat presumptuous of the builder after spending all this money to assume that the zoning will change in his favor. Or maybe I am too naïve and it's already a done deal.

If the zoning changes, I will probably sell my home and move to another area.

Thanks

**Jill Ford January 29, 2021**

Hi Saira!

We are the Fords, Jill and Bob at 39 Clover Lane -When we bought here 2 years ago we were not told of the proposed rezoning from R1 to R2 -We are concerned for our property value and a congested area as well as the additional concerns below!

-Our cable and Electrical services are underground, in the new proposal all the services would be above ground -Also concerned about the water and sewer services and storm water drainage being inadequate, can the developer Elaborate further on these?

-With the additional multi units there would be a strain on schools, fireprotection, policeing and hospitals, can this be addressed!

-Also with the new proposal for rezoning The streets would be congested with additional traffic and parking as well as heavy equipment making it dangerous for children playing - Water drainage and soil stability may also Be an issue. Can you elaborate more on how this would affect the area with additional housing?

Re Phase 2A

-can we get a clarification of the proposed grandfathered 8 multi units in this phase?

Also can we see what housing plans are proposed for this area?

Also are these units 2,3 or 4 units?

Also would these be rentals? If so this would have an affect on property values The increase in population from 18 single family homes to 36 multi units would again be a concern as above

Phase 2B

-can the developer clarify the lots for this phase .Are they single or multi units?

Phase 3

-Again with an R2 zoning what type of units would be proposed for this phase?

-How can a zoning be changed without seeing the division of lots and what type of housing units to be built?

-our concerns re water pressure as well as a strain on all services in the community will be affected by an increase in population

Parkland

-Greenspace is very important to us as well -Looking at the proposed space we find it is located on a hill and wouldn't be a good space for children and seniors -Also why couldn't the Park space be built now rather than later?

Hopefully our questions will be answered at the next virtual meeting!

Thanking you!

Jill and Bob Ford

**Steve and Joy Allen February 2, 2021**

Feb 2,2020

Saira Shah

Planner, West Hants Reg. Mun.

I am writing regarding the letter I received and the virtual meeting held January 19th 2020. Regarding the Meadows Developement. My wife and I build a new home at 202 Falmouth Back Road in 2011.

It is my understanding that all of Falmouth for residential is zoned R1 , single Unit Residential.

When we built our home on the corner of Clover Lane and Falmouth Back Road we expected that the development and the future development of clover lane would remain zoned R1 with single residential homes. Everyone I have spoke to on Clover Lane , including the owners of 2 new expensive homes under construction assumed the same thing and are quite upset that the municipality may allow 2,3 and 4 unit residential units. During the virtual meeting a representative from the developer said that these unit could become rental units if there was a demand for them. I think it is hard for anyone to argue that this would take away current homes build in the development.

It is one thing if the Municipality decides to start zoning some developments in Falmouth R2,3 and 4, but a totally do not think it is fair the current land owners in the development to have rezoning or development agreement done in the middle of the project.

Regards

Stephen & Joy Allen

**Barry Moore February 5, 2021**

Hi Saira,

As a property owner adjacent the proposed development I viewed the information session held online on the 19th January. I added a few comments at the time of the meeting however I would like to provide the following comments and concerns:

a. I would like to comment that I have an issue with the rapid growth and the transformation of the rural Falmouth area into a mass of duplex, triplex homes. I feel that it is out of character with the rural area and is disrespectful to those residents that have lived here for a long time or moved here to enjoy the rural nature. Furthermore if this proposal is allowed to proceed then it sets a precedent that other developers will want to exploit and in 10 years the large rural areas will look like a suburb of Sackville.

b. I would like to comment that the proposed deeding of up to 4 acres of land on this development to the Municipality as green space is not of much use to the other residents of Falmouth. It is contained within the development and is hemmed in by other private properties such that access would be limited.

c. I would like it to be clearly presented to the residents of Falmouth how many additional homes all phases of this development could be adding once the phases are complete. In the presentation the developer talked a bit about the types of homes they are proposing but did not clearly identify the total number of homes; is it 30 homes, 100 , or a couple of hundred more homes. I feel that the public deserves to be presented with the complete picture and this information is essential to enable the planning department to properly assess the impacts.

d. The planning department should be providing an assessment on the impact this proposal will have on the water services. My understanding is that the water capacity in Falmouth is limited to the small collection pond on Eldridge Road and when I walk the trails in that area I don't see a massive reservoir of water . Will our water system be capable of supplying all these homes ?

e. The planning department should be providing an assessment on the impact this proposal will have on the sewer services. A number of years ago the sewer collection was improved (or at least we are paying for that improvement) . What was the design increase in capacity and will this be capable of handling the addition of all these homes ?

f. The planning department should be providing an assessment on the impact this proposal will have on traffic on the Falmouth Back Road. The Falmouth Back Road is a very busy road that is currently hazardous for pedestrians/cyclists due to the speed of cars in the area, the lack of sidewalks, lighting and frequently washed out areas. It would not meet urban standards yet this development proposes to add several hundred cars all trying to enter the Falmouth Back Road at one junction.

g. Although it does not directly affect me , the planning department should be providing an assessment on the impact this proposal will have on the school services. Falmouth school is a relatively small rural school with a good student/teacher ratio resulting in a quality education. Many of these new families will have young school age kids. Will the

school board have to bus the younger grade kids to other feeder schools or introduce temporary classrooms due to overcrowding.. What will be the quality of education that parents could expect ?

I would like to conclude by thanking you for your time. My personal feeling is that the residents of Falmouth, the Municipality of West Hants and the current infrastructure are not prepared for the rapid expansion that proposals such as this one will lead to. I look forward to your responses in the next public presentation of this proposal.

Regards,

Barry Moore

**Peter Arsenault February 5, 2021**

Your office was provided with a detailed letter by Jill Ford a resident of Clover Lane. I would like to support fully her comments against the upgrade to R2 from R1 . Also I am against the purposed foot path displayed on your map used in the internet briefing in Jan 2021, connecting everything to the green space in phase 3. This would be right through my yard . When I purchased here I was told the existing right of way was for maintenance of the water pipe if required . Nothing ever said about a right away for a foot path.

I have no problem with R1 as I knew that was the plan all along, but why change the game half way through?

That's my point!

So if this goes thru , it's going to be another " if you don't like it you can always move" situation again. I've already moved from two other residential houses in hants county because of other rule juggling.

I realize I'm most likely in the minority with the big plan , but this is the situation as it applies to me.

Peter Arsenault

38 Clover Lane

**Sue Harvey February 5, 2021**

To whom this may concern,

I strongly oppose the prospect of multi unit buildings in Falmouth. Has there been an impact study on property values of the existing properties? How much consideration has been given to the impact on existing infrastructure?

The local hospital and doctors can barely handle the existing population. There is no space available in the local schools. This is a process that should take many years in advance to plan.

Sincerely, Sue Harvey (local homeowner)

**Adam Mosher February 8, 2021**

Hi Sara,

My wife and I live on Clover Lane in Falmouth. Its been mentioned at a recent meeting that there are significant changes to what is being planned for our area, from what we were told when we bought our house (which we did in May 2020).

I was instructed by a neighbour who is getting everyone to express concern, that there is even a planned walk way over the easement. Which is not disclose during the purchase of our house on the easement wording as well.

Is this the right department to contact regarding this issue?

Thanks

Adam W. Mosher

**Amanda Mosher February 8, 2021**

Hi Sara

I'm Amanda Mosher Of 44 Clover Lane.

I will not allow or support any walkway near or on my property or anywhere on our street.

This is ridiculous, as I was not informed of any of this during the purchase of our property. I will support and stand with all Clover lane residents to ensure this new plan is stopped.

**Matt Hebb February 6, 2021**

Hi my name is Matthew Hebb I currently live on 31 Clover Lane. I'm emailing in regards to the quad plex and duplex structures that our being planned in that development. The covenants clearly stated when I built my house that only single dwelling homes were aloud to be built there. It is still in the covenants currently. If I knew a few years down the road my street would be turning into a retirement community or a low income housing plan. I never would of built there. Duplexes and quads usually attract older people or lower income families. Talking to all my neighbors they are saying the same thing. Building these multiple dwelling houses is only going to lower the value of the current single family homes and bring much more un wanted traffic on the street. 4x the amount as apposed to just single family dwellings. My question is how can the covenants that attracted most people to that street suddenly change. Also, from my understanding and correct me if I'm wrong, this could impact my sewer and water fees / bills. Anyway, no one on the street would of built there knowing what the future had in store. By reading the covenants before building there it seemed like a safe bet it would just be nicely maintained single family dwelling homes. What's the point of having covenants if they can change after a dozen houses already have built there, doesn't make sense to me. Thanks.

**Brian Lynch February 7, 2021**

Hello Ms. Shah,

Thank you for the information provided in you Facebook session. Unfortunately, we had some issues logging in and we missed the first few minutes of your presentation. My apologies if we ask questions that you may have already addressed.

Could you please clarify the number and type of new dwellings being built in Phase I, Phase 2A, Phase 2B and Phase 3?

What is the projected start and completion date of Phase 3?

If we understood correctly, there would be 70+ homes to be built in Phase 3 alone. We are very concerned about the amount of traffic on the newly constructed road behind our house as well as the increased volume of traffic on the already busy Falmouth Back Road. It is often difficult to get out of our driveway as it stands now and I can't imagine how much these 100+ houses will impact the traffic flow on the Falmouth Back Road.

We are wondering if there is any plan to address this issue?

Also, with this increase in population, how will this affect our water supply? Can the water supply accommodate such a large development? Will our water bills continue to escalate? This is definitely a concern.

Another issue is we are wondering how this will affect the value of our property. With a busy road already at the front of our property and now a busy road behind, it is concerning.

Is there any way to find out exactly where the houses/duplexes will be located in Phase 3 as they are already outlined in Phases 1 and 2 on the map?

Thank you for taking the time to consider these questions and concerns.

Take care

Brian Lynch and Tina Leighton

**Attachment B**  
**2021-03-11 File #19-15B Recommendation**  
**Report Meadows Development**



**WEST HANTS REGIONAL MUNICIPALITY REPORT**

Information <input type="checkbox"/>	Recommendation X	Decision Request <input type="checkbox"/>	Councillor Activity <input type="checkbox"/>
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**To:** Members of Planning Advisory Committee

**Submitted by:** \_\_\_\_\_  
Saira Shah, Planner

**Date:** 2021-03-11

**Subject:** File 19-05 Meadows Development

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**LEGISLATIVE AUTHORITY**

Municipal Government Act Section 229 and 230.

**RECOMMENDATION**

In order to allow the requested development and discharge the current development agreement, staff recommends that the Planning Advisory Committee (PAC) forward a positive recommendation by passing the following motion:

PAC recommends that Council give First Reading and hold a Public Hearing to consider entering into a development agreement to allow two-unit residential uses at PID 45371879, 45383379, 45371887, and 45383957, Falmouth, in a manner substantively the same as the draft set out in Appendix C of the report to the Planning Advisory Committee dated March 11, 2021, taking note that this development agreement will discharge and replace the development agreement for PID 45371879 recorded at the Registry of Deeds on September 27, 2007 as document 88923751.

**BACKGROUND**

An initial application was received on December 13, 2019 from Brison Developments Limited to permit two-unit residential development at PID 45371879, 45383379, 45371887, and 45383957, Falmouth, West Hants. All necessary material for the application was submitted on July 14, 2020.

On December 11, 2020 the applicant requested that staff consider three and four-unit dwellings in addition to the two-unit dwellings requested on December 13, 2019.

On February 23, 2021 the applicant withdrew their request for three and four-unit dwellings and asked that staff only consider the initial application request for two-unit

residential development. The change in application is further explained in the "Applicant Requests" section of this report.

The combined properties are approximately 49 acres and are all owned by Brison Developments Limited. There is a registered development agreement between Meadows Development Limited (former owners) and the Municipality on PID 45371887 in August 2007 to permit eight (8) semi-detached dwellings. Brison Developments Limited wishes to discharge that agreement as part of this application to ensure the same requirements apply to the entire development site.

## **DISCUSSION**

All four (4) properties are designated Residential in the Falmouth Growth Centre on the Generalized Future Land Use Map of the West Hants Municipal Planning Strategy (WHMPS) (Figure 1).

The properties are all zoned Single Unit Residential (R-1) on the Zoning Map of the West Hants Land Use By-law (WHLUB) (Figure 2). The properties are bound on almost all sides by properties zoned Single Unit Residential (R-1) except for PID 45371887 which neighbours a property zoned institutional (I) to the east and PID 45371879 which neighbours a property zoned Agricultural Priority 3 (Ar-3) to the north.

Only single unit dwellings, accessory apartments, and existing manufactured homes are permitted in the Single Unit Residential (R-1) zone. The applicant would like the opportunity to develop two-unit dwellings which are not permitted as-of-right.

Section 6.1 of the WHLUB, Development Agreements, states that *the following developments may be considered only by development agreement in accordance with the Municipal Government Act and the Municipal Planning Strategy:*

- (d) *comprehensively designed multiple residential development consisting of a mix of single unit, semi-detached, duplex and townhouse dwellings in the Falmouth Growth Centre in accordance with Policy 5.4.4 of the Municipal Planning Strategy;*

A semi-detached dwelling is defined in the WHLUB as *a building that is divided vertically into two dwelling units, each of which has an independent entrance*. A duplex is defined in the WHLUB as *a building that is divided horizontally into two dwelling units, each of which has an independent entrance directly or through a common vestibule*. The current definitions for semi-detached and duplex are specific in terms of construction type and staff have discussed adopting more general definitions for two-unit dwellings as part of the plan review with PAC. Staff have added the two-unit dwelling definition accepted by the PAC for the plan review to the agreement and use the term two-unit dwelling instead of semi-detached or duplex in the agreement. This will give the applicant more flexibility in terms of construction type while still restricting the number of units per building to two (2) meeting the overall intention of Council in Section 6.1 (d) of the WHLUB.

## **Development Agreements**

A development agreement is a legal contract between the Municipality and a property owner that describes the type of development permitted on a property. Development agreements provide an opportunity for Council to exercise a greater degree of control over aspects of a development proposal and allow Council to consider uses that would

otherwise not be permitted in the underlying zone. A development agreement is binding upon a property until the agreement is discharged by Council.

### **Applicant Requests**

The applicant is proposing a mix of single and two-unit dwellings built over three phases: Phase 2A, 2B and 3. The draft development agreement, including the concept plan, can be found in Appendix C. Lot dimensions and street layout are established in the concept plan for Phase 2A and Phase 2B. However, the applicant has not provided those details for Phase 3 and wishes to have flexibility in terms of the layout. The agreement enables the applicant to use any lot configuration or design elements from Phase 2A and 2B in Phase 3 and the lot requirements are outlined in the text of the agreement. Any new streets not shown on the concept plan must meet the requirements of the Municipal Services Specifications Manual and the West Hants Subdivision By-law.

The applicant wishes to have flexibility in terms of the types of dwelling units permitted in Phase 3 to meet changing market demand. This included a request to list "dwelling types" as a non-substantive amendment to the development agreement. A non-substantive amendment would not require a Public Hearing by Council. Staff determined an amendment to add additional "dwelling types" to the list of uses permitted would have a major impact on the community and should not be considered a non-substantive amendment. However, staff have discussed alternative options to create flexibility for the applicant. The criteria that enables Council to consider this development agreement specifies that a minimum of 30 percent of the development must be single unit dwellings and the density of development must be limited to four and a half (4.5) dwelling units per acre. These requirements are included in the development agreement to reflect Council's intention for the area. The concept plan states a maximum of 75 units can be constructed in Phase 3. However, the specific number of two-unit dwellings permitted has not been specified in the concept plan or text of the development agreement for Phase 3 which will create flexibility for the applicant.

Policy 5.4.4 which enables Council to consider this application by development agreement includes criteria which requires the property (or development site) to have frontage on an arterial or collector street and be at least 25 acres. Staff told the applicant if they sell the property that provides the frontage or subdivide and sell several properties reducing the overall development site to under 25 acres future amendment applications for the agreement may not be recommended by staff as the development site would no longer meet the criteria. In December 2020, the applicant requested the addition of three and four-unit dwellings to be considered for Phase 3 of the development to avoid a future amendment application for the agreement. Staff sent out additional inquiries to receive comments on the criteria as the addition of three and four-unit dwellings was considered a major change to the application. The Department of Transportation and Infrastructure Renewal (DTIR) requested that a traffic impact study (TIS) be provided before a development permit could be issued. This was different than DTIR's initial request based on the initial application for two-unit dwellings. In the first request for comment DTIR asked for a traffic impact study after the 100<sup>th</sup> residential permit had been issued or any development commenced in Phase 3. When staff asked for clarification as the proposed maximum number of units permit had not changed DTIR stated "*The TIS is triggered by the number of trips generated as opposed to the actual number of structures. With the increased population density*

*(from single and two-unit to the addition of three and four-unit dwellings), it is anticipated that the trip generation threshold will be met sooner than at 100 structures.”* The applicant was made aware of this requirement and on February 23, 2021 they withdrew their request for three and four-unit dwellings to proceed with the initial request for two-unit dwellings as the applicant felt the additional requirements from DTIR would place an unnecessary burden on them.

The applicant requested a reduced minimum lot frontage requirement for single-unit dwellings of 50 ft. and reduced side yard requirements of 6 ft. Staff have no concerns with these reductions as it will enable compact development that better utilizes municipal services and National Building Code requirements would still apply.

The applicant has entered into two (2) parkland agreements with the Municipality for development in the surrounding area. As a large area of parkland is dedicated in the agreements, staff have enabled the Development Officer to consider the Public Parkland outlined in the parkland agreements on August 22, 2011 and April 10, 2012 as part of the parkland contribution requirement for this development. If additional parkland is required to meet the requirements of the Subdivision By-law and the agreement the Development Officer can request additional land.

Sections of the development agreement related to storm drainage and ownership of the detention pond required extensive consultation with the Director of Public Works, the applicant, and the Chief Administrative Officer. Staff have determined the requirements of the Subdivision By-law and the Municipal Services Specifications Manual for West Hants are sufficient. However, if the owner wishes to maintain ownership of the detention pond, the owner will need to submit confirmation of performance on an annual basis and fix any issues that arise.

### **WHMPS Specific Criteria**

Policy 5.4.4 of the WHMPS establishes Council’s intention to consider proposals for comprehensively designed multiple residential developments in the Falmouth Growth Centre by development agreement. The above policy establishes the criteria to be considered by Council, which are examined in detail in Appendix A. In summary, the criteria are met since:

- the development agreement has specific stipulations for density and ensures that a minimum of 30 percent of the total number of dwelling units will be single unit dwellings;
- a traffic impact study will be required before the 100<sup>th</sup> residential unit development permit can be issued or before any development can start in Phase 3 and all work required by the recommendations in the traffic impact study must be completed;
- the reduced setback requirements will enable a planned compact community that makes efficient use of streets and municipal infrastructure; and
- the stormwater management plan is considered satisfactory by the Municipal Engineer.

### **WHMPS General Criteria**

Policy 16.3.1 of the WHMPS states general criteria for any development agreement considered in West Hants. These criteria are examined in detail in Appendix B. In summary:

- the proposal is not premature or inappropriate for the area;
- no municipal costs related to the proposal are anticipated; and
- the Fire Chief, Manager of Building and Fire Inspections Services, Director of Public Works and Department of Transportation and Infrastructure Renewal have no major concerns which have not been address in the draft development agreement.

### **Request for Discharge**

West Hants entered into a development agreement with Meadows Development Limited in 2007 to permit eight (8) semi-detached dwellings on PID 45371887. To include this property in the new agreement, staff recommend discharging the current agreement.

Section 229 (2) of the MGA states *A council may discharge a development agreement, in whole or in part, in accordance with the terms of the agreement or with the concurrence of the property owner.*

The applicant has indicated they agree to a discharge of the previous agreement. Clause 5.7 (b) of the draft development agreement would discharge the existing development agreement for PID 45371887.

### **Municipal Climate Change Action Plan**

Based on the Municipal Climate Change Action Plan (MCCAP) Inland Flooding and Coastal Flooding maps there may be a risk of inland and coastal flooding in close vicinity to the properties but not directly on the properties as shown in Figure 3 and 4. The Falmouth Stormwater Management Plan (Falmouth SWMP) shows similar flooding potential downstream from the development site (Figure 5). The Municipal Engineer is satisfied that the stormwater management ponds will reduce the post-development flows by 10% to 23% compared to the pre-development flows to the downstream area based on the stormwater model presented.

### **NEXT STEPS**

As noted above, the proposed development has been considered within the context of both the specific and general policies of the WHMPS and is consistent with the intent, objectives and policies of the WHMPS. The development meets the specific and general criteria for development agreements as outlined in the WHMPS. As a result, it is reasonable to consider approving the development agreement to allow two-unit dwellings at PID 45371879, 45383379, 45371887, and 45383957 in Falmouth.

#### **Approval Process**

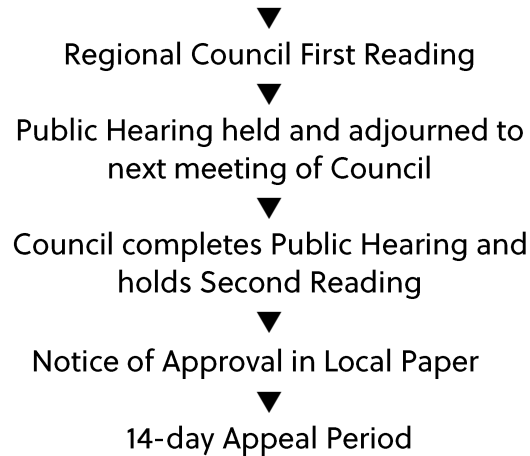
Staff Review



Public Information Meeting



Planning Advisory Committee receives staff report and PIM Notes  
Planning Advisory Committee Review and Recommendation



### **FINANCIAL IMPLICATIONS**

There would be an increase in households using water, sewer, and waste disposal services in the area. However, the increased services are expected to be paid for, at least in part, by new residents moving to the development.

### **ALTERNATIVES**

In response to the application, PAC may recommend that Council:

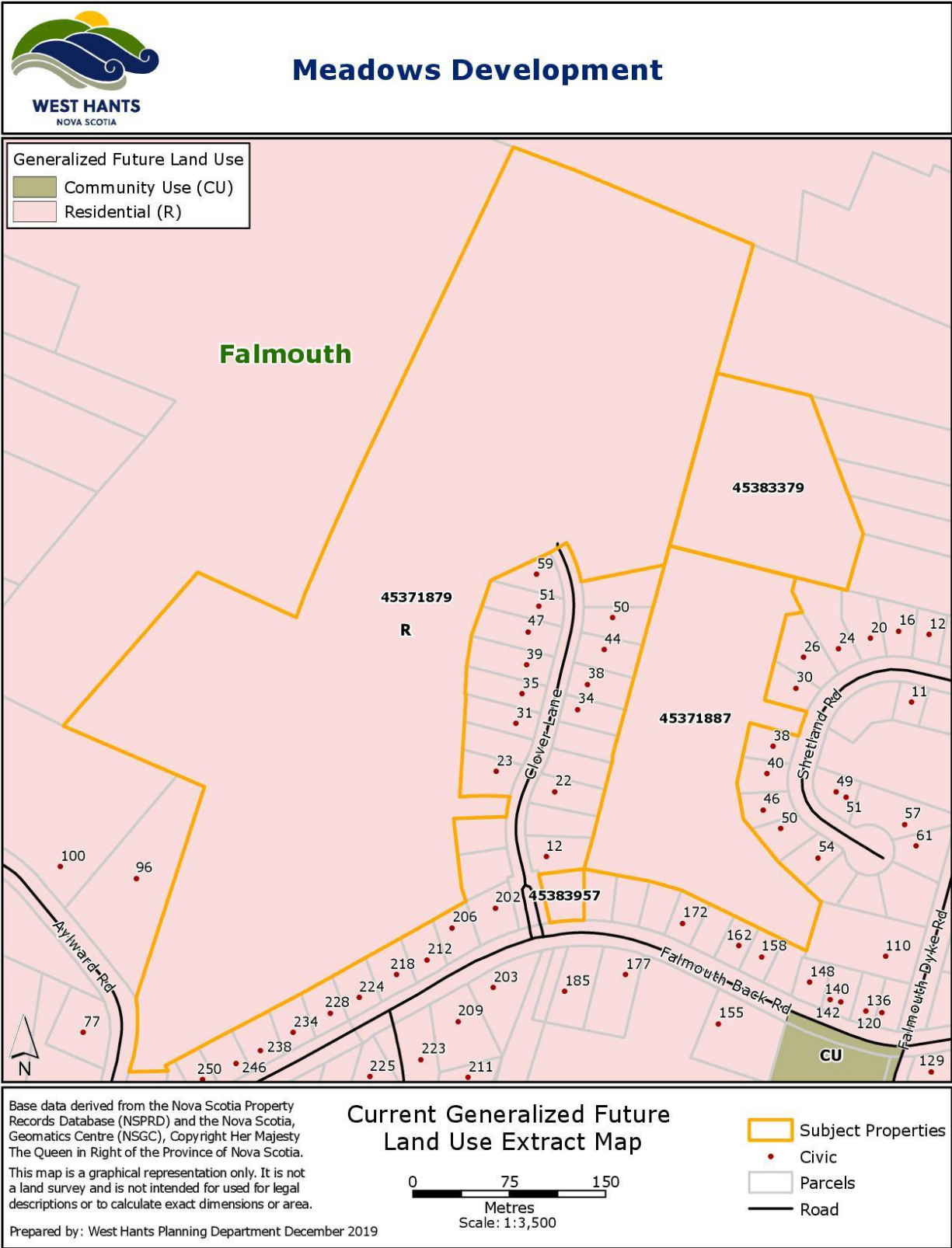
- hold First Reading and authorize a Public Hearing to approve the Development Agreement as drafted or as specifically revised by direction of PAC;
- provide alternative direction such as requesting further information on a specific topic.

### **ATTACHMENTS**

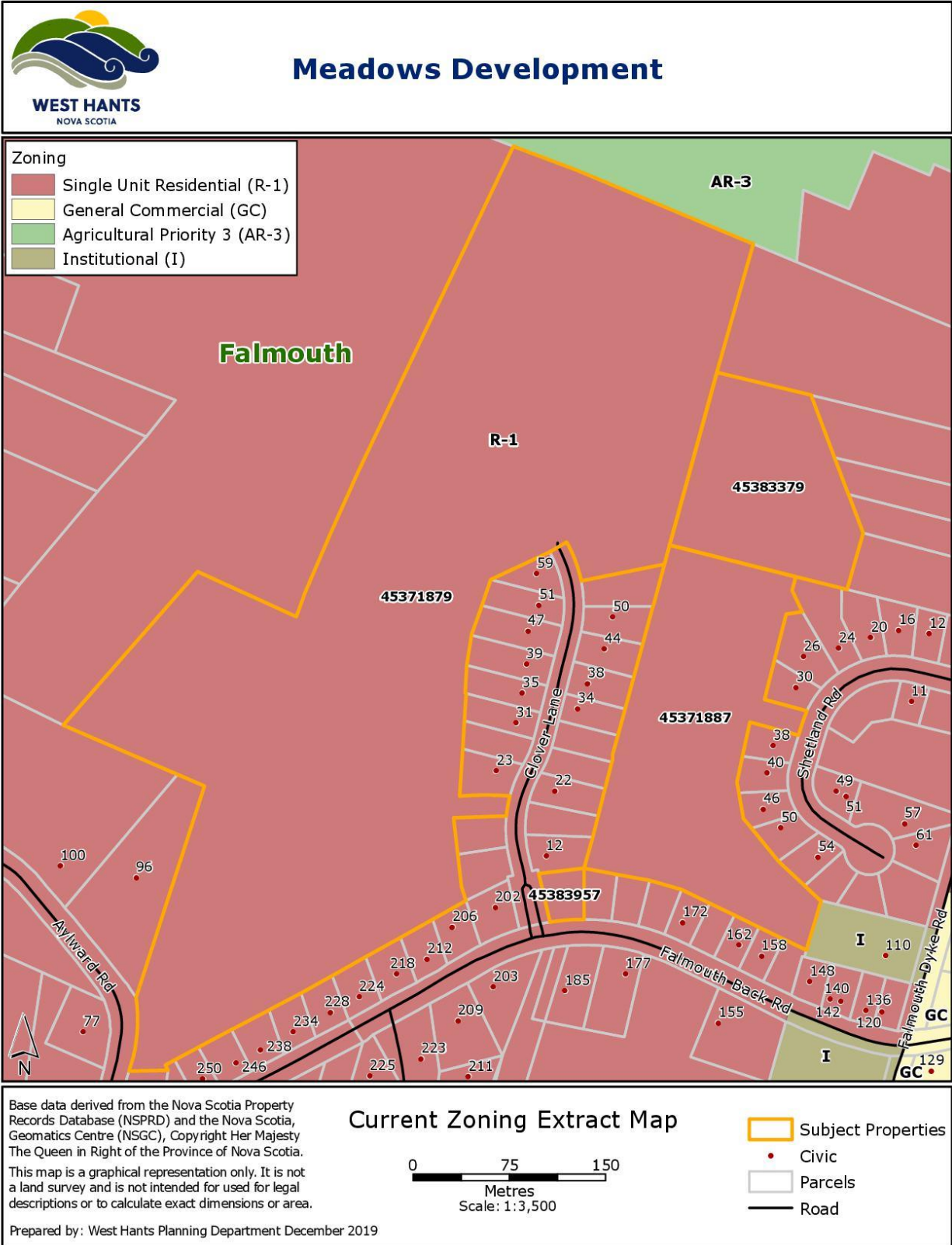
- Figure 1 Generalized Future Land Use Map
- Figure 2 Existing Zoning Map
- Figure 3 MCCAP Inland Flooding Map (Falmouth)
- Figure 4 MCCAP Coastal Flooding Map (Falmouth)
- Figure 5 Falmouth SWMP 1 In 100 Year Flooding Extent with Climate Change Map
- Appendix A Specific Criteria for Development Agreement
- Appendix B General Criteria for Development Agreement
- Appendix C Draft Development Agreement

Report Reviewed by: \_\_\_\_\_  
Madelyn LeMay, Director of Planning and Development

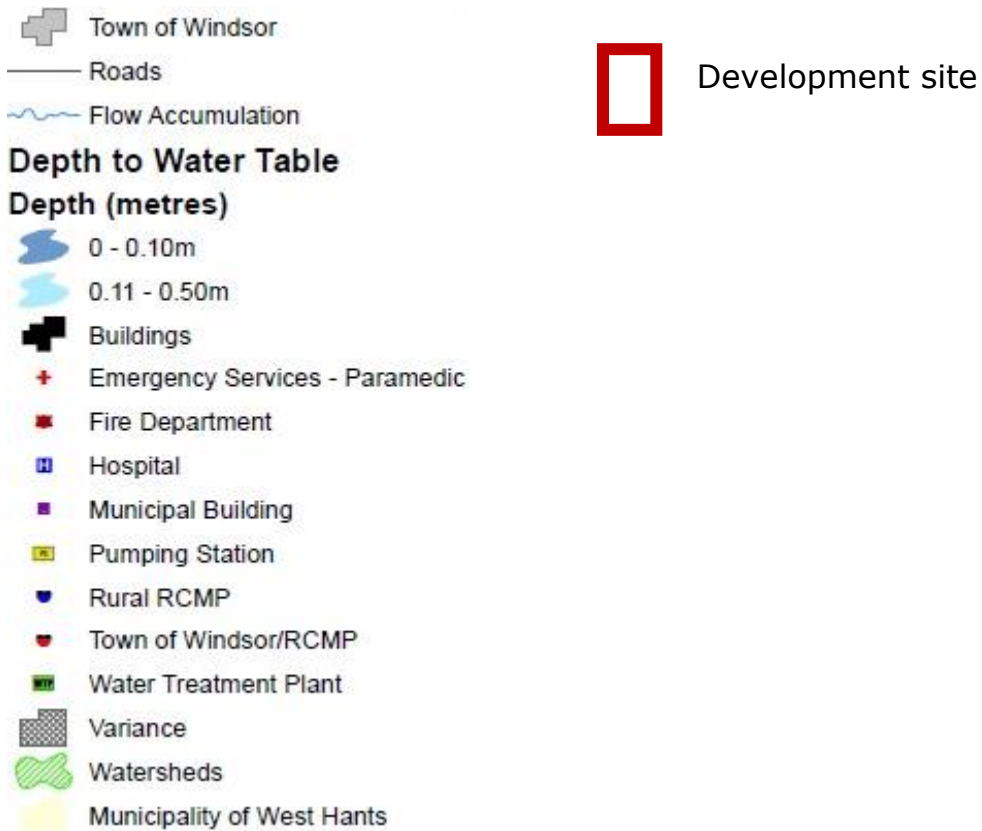
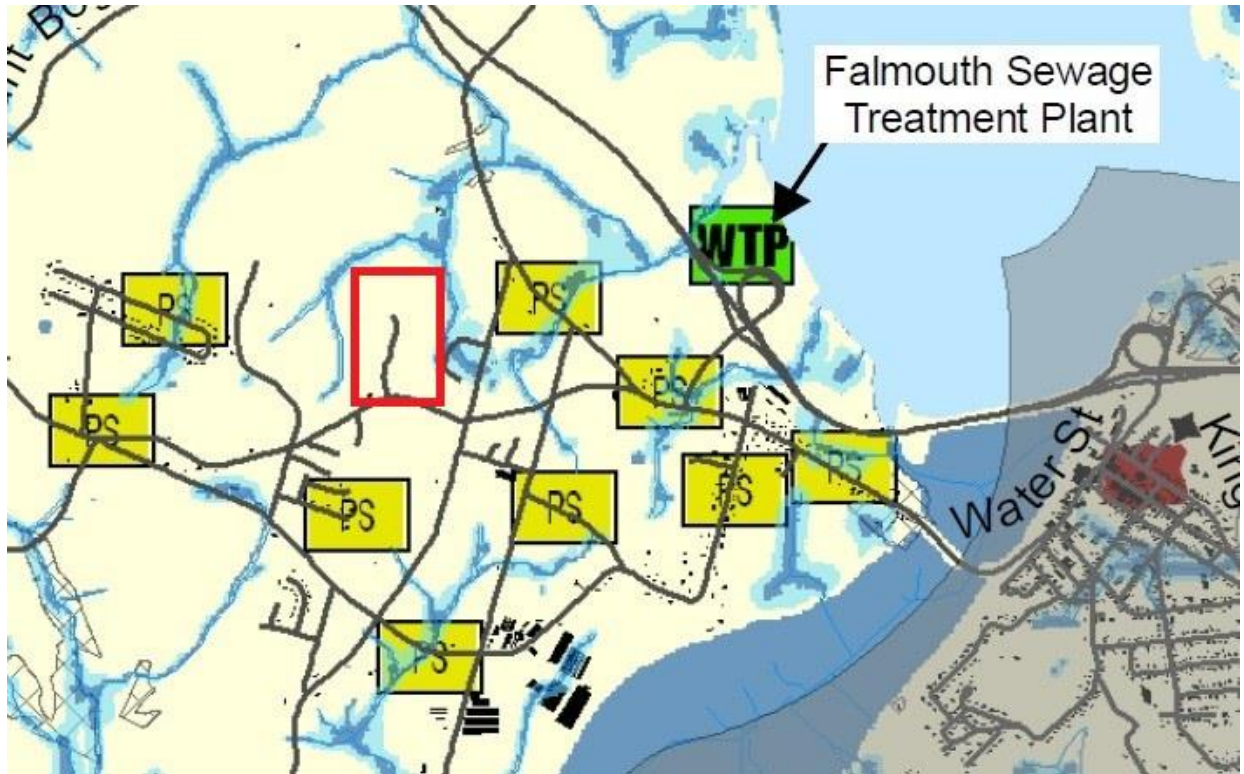
**FIGURE 1  
GENERALIZED FUTURE LAND USE MAP**



**FIGURE 2  
EXISTING ZONING MAP**



**FIGURE 3  
MCCAP INLAND FLOODING MAP (FALMOUTH)**





**FIGURE 4  
MCCAP COASTAL FLOODING MAP (FALMOUTH)**



**FIGURE 5**  
**Falmouth SWMP 1 IN 100 YEAR FLOODING EXTENT**  
**WITH CLIMATE CHANGE MAP**



**Legend**

-  1 in 100 Year Flooding Extent with Additional Detention Pond
-  1 in 100 Year Flooding Extent without Additional Detention Pond

 Development site

**APPENDIX A  
SPECIFIC CRITERIA FOR DEVELOPMENT AGREEMENT**

**Policy 5.4.4** *It shall be the policy of Council to consider proposals for comprehensively designed multiple residential developments in the Falmouth Growth Centre by development agreement subject to the following:*

<b>CRITERIA</b>	<b>COMMENT</b>
<i>(a) the development consists of a mix of housing types where:</i>	
<i>(i) a minimum of 30 percent of the total number of dwelling units shall be single unit dwellings; and</i>	Clause 2.2 (a) of the development agreement addresses this requirement.
<i>(ii) the remaining dwelling units may include any combination of townhouse dwellings along with semi-detached or duplex dwellings, provided that not more than four dwelling units shall be permitted per building or attached structure;</i>	In Section 2.1 Uses of the development agreement two-unit dwellings are the largest dwellings permitted which means no building will have more than two (2) dwelling units meeting the intent of this criterion.
<i>(b) the property:</i>	
<i>(i) is at least 25 acres (10.12 ha) in size;</i>	As the development site is a combination of multiple properties that will be subdivided into individual residential lots, staff are not requiring the applicant to consolidate the four (4) properties into one (1) property and are considering the development site the "property" for policy criteria. The development site is 49 acres.
<i>(ii) is serviced, or is capable of being serviced, by both municipal water and sewer; and (Amendment WHMPS 14-01 Effective January 22, 2015)</i>	The Director of Public Works has confirmed that portions of the development site are currently serviced with potable water and central sewer services and the remaining portions of the development site are capable of being serviced.
<i>(iii) has frontage on an arterial or collector street designated on the Transportation Map (Map 2);</i>	The development site has frontage on an arterial street (Falmouth Back Road) designated on the Transportation Map. This criterion does not specify that direct access to an arterial street is necessary. The development site will have access to Falmouth Back Road though Clover Lane.
<i>(c) the development exhibits comprehensive site planning and design with an emphasis on the conservation of significant natural</i>	The concept plan exhibits comprehensive planning and design with conservation of existing watercourses. Staff considered the landscaping and buffering

<p><i>features of the site, provision of open space and recreational areas, and landscaping and buffering to screen views of the development from existing developed properties;</i></p>	<p>requirements based on potential land use conflicts. Staff will not require landscaping and buffering for the existing agricultural and institutional uses. The concept plan shows significant distance between the proposed residential uses and existing farm operations. PID 45371887 is adjacent to an institutional use (senior's complex) which is surrounded by existing residential uses. The Development Officer has confirmed there have not been any land use conflicts between the existing institutional use and adjacent residential uses. In the Development Officer's experience, they have not witnessed a conflict between any institutional use and residential uses in West Hants. The remainder of the existing developed properties are designated and zoned residential and the proposed development is not expected to create potential land use conflicts.</p>
<p><i>(d) the gross density of the development shall not exceed 4.5 dwelling units per acre; where the gross density exceeds 3 dwelling units per acre, at least 10 percent of the total area of the property shall be dedicated to the Municipality for parkland or open space purposes;</i></p>	<p>Clause 2.2 (d) of the development agreement addresses this requirement.</p>
<p><i>(e) the Multiple Residential (R-3) zone standards are used as a guide for minimum lot area, frontage and yards; however, Council may consider reduced lot requirements where the proposed development is a planned compact community that makes efficient use of streets and municipal infrastructure;</i></p>	<p>The Single Unit Residential (R-1) and Two Unit Residential (R-2) zone requirements in the West Hants Land Use By-law will apply to single and two-unit dwellings with the exception of the minimum lot frontage and side yard requirements for single-unit dwellings which have been reduced at the applicant's request. These reductions will enable a planned compact community that makes efficient use of streets and Municipal infrastructure.</p>
<p><i>(f) existing and proposed streets are adequate to support the development and existing streets will not require major infrastructure improvements as a result of the development; a traffic impact study may be required in accordance with Section 14.6 of this Strategy;</i></p>	<p>DTIR has requested a Traffic Impact Study be submitted before the 100<sup>th</sup> development permit can be issued for a residential unit or before development starts in Phase 3. Section 2.4 of the development agreement addresses this request.</p>

<p><i>(g) the development is compatible with the surrounding area in terms of building height, scale and architectural design;</i></p>	<p>The building height and scale requirements will be the same as the requirements in the Single Unit Residential (R-1) and Two Unit Residential (R-2) zones in Falmouth. There are no architectural design requirements. The applicant has provided photos to illustrate the architectural style of the development.</p>
<p><i>(h) a stormwater management plan shall be submitted, satisfactory to the Municipal Engineer, that shows the development will not adversely affect receiving watercourses and downstream properties;</i></p>	<p>The Municipal Engineer is satisfied with the stormwater management plan submitted and has stated that <i>"the retention ponds will reduce the post-development flows by 10% to 23% less than the pre-developed flows to the downstream area based on the stormwater model presented."</i> In addition, DTIR has reviewed the stormwater management plan in relation to the Provincial road network and find the proposed system to be acceptable.</p>
<p><i>(i) the application is accompanied by:</i></p>	
<p><i>(i) a site plan showing the proposed number, location and type of buildings, lot coverage, parking areas, vehicular and pedestrian circulation systems within the development, access to the site and open space and recreational areas;</i></p>	<p>The site plan which forms part of the Development Agreement as the concept plan shows all relevant information required.</p>
<p><i>(ii) other supporting maps showing the topography of the lot including contours at five meter intervals, and significant natural features such as watercourses, wetlands and unique habitat or vegetation; and</i></p>	<p>Topography and significant natural features such as watercourses are shown on the concept plan.</p>
<p><i>(iii) photo examples, plans or drawings showing the exterior design of the proposed buildings;</i></p>	<p>Photos were included in the application showing the style of the buildings.</p>
<p><i>(j) any other matter which may be addressed by development agreement; and</i></p>	<p>No other matter has been raised.</p>
<p><i>(k) Policy 16.3.1.</i></p>	<p>Please see Appendix B for further details.</p>

**APPENDIX B**  
**GENERAL CRITERIA FOR DEVELOPMENT AGREEMENT**

**Policy 16.3.1** *In considering development agreements and amendments to the West Hants Land Use By-law, in addition to the criteria set out in various policies of this Strategy, Council shall consider:*

<b>CRITERIA</b>	<b>COMMENT</b>
<i>(a) whether the proposal is considered premature or inappropriate in terms of:</i>	
<i>(i) the adequacy of sewer and water services;</i>	Please see 5.4.4 (b) (ii) for further details.
<i>(ii) the adequacy of school facilities;</i>	The Director of Operations for the Annapolis Valley Regional Centre for Education has stated they have no concerns as schools in West Hants are projected to decreased in enrollment over the next ten years.
<i>(ii) the adequacy of fire protection and other emergency services;</i>	The Manager, Building and Fire Inspection and Fire Chief for the area have no concerns with regards to fire protection and emergency services.
<i>(iii) the adequacy of road networks adjacent to, or leading to the development; and</i>	Please see 5.4.4 (f) for further details.
<i>(iv) the financial capacity of the Municipality to absorb any costs relating to the development.</i>	There would be an increase in households using water, sewer, and waste disposal services in the area. New residents moving to the development would be expected to cover some of the increased costs for the Municipality.
<i>(b) whether the development is serviced, or capable of being serviced, by a potable water supply and either central sewer or an approved on-site sewage disposal system;</i>	Please see 5.4.4 (b) (ii) for further details.
<i>(c) the suitability with any aspect relative to the movement of auto, rail and pedestrian traffic;</i>	Please see 5.4.4 (f) for further details. All new roads must be built to the standards in the Municipal Services Specifications Manual and West Hants Subdivision By-law.
<i>(d) the adequacy of the dimensions and shape of the lot for the intended use;</i>	The lot dimensions and shape will be regulated in section 2.3 <i>Setbacks and Buffering</i> of the development agreement.
<i>(e) the pattern of development which the proposal might create;</i>	Policy 5.1.1 encourages concentrated residential development in designated

	Growth Centres. Two-unit dwellings are in line with this policy.
<i>(f) the suitability of the area in terms of steepness of grade, soil and geological conditions, location of water courses or wetlands, and susceptibility of flooding;</i>	Based on a preliminary visual assessment there are no evident concerns in terms of steepness of grade, soil, geological conditions, and location of water courses or wetlands. In terms of flooding, the MCCAP Inland and Coastal Flooding maps show there may be a risk of inland and coastal flooding in close vicinity to the properties but not directly on the properties. The Falmouth Stormwater Management Plan shows flooding potential downstream from the development site. Please see 5.4.4 (h) for comments from the Municipal Engineer regarding stormwater management. The applicant will be responsible if any issues arise in terms of the suitability of the area for the proposed uses.
<i>(g) whether the proposal meets the requirements of the appropriate provincial or federal agencies as well as whether it conforms to all other relevant municipal by laws and regulations; and</i>	The proposed amendment meets all relevant municipal, provincial and federal regulations.
<i>(h) any other matter required by relevant policies of this Strategy.</i>	Please see Appendix A for further details.



**WHEREAS** Policy 5.4.4 of the Municipal Planning Strategy; and Section 6.1 (d) of the Land Use By-law enables Council to consider new comprehensively designed multiple residential developments in the Falmouth Growth Centre by development agreement; and

**WHEREAS** the Council of the Municipality, at a meeting held on **Date**, approved this request and adopted this Agreement by policy subject to the execution of this development agreement by the parties hereto;

**NOW THEREFORE THIS AGREEMENT WITNESSETH** that in consideration of the mutual covenants and agreements herein contained, the parties agree as follows:

## **PART 1 AGREEMENT CONTEXT**

### **1.1 Definitions**

In this Agreement, all words or phrases used shall carry their customary meaning unless otherwise set out in the Land Use By-law, except those defined as follows:

“Municipal Engineer” means the engineer of the West Hants Regional Municipality and includes a person acting under the supervision and direction of the engineer.

“Two-unit Dwelling” means a completely detached building containing only two (2) dwelling units.

### **1.2 Schedules**

The following attached schedules shall form part of this Agreement:

- Schedule A - Legal Description
- Schedule B – Concept Plan
- Schedule C – Stormwater Management Plan

### **1.3 Municipal Planning Strategy, Land Use By-law, and Subdivision By-law**

- (a) *Municipal Planning Strategy* means the West Hants Municipal Planning Strategy, approved on May 13, 2008, as amended, or successor By-laws;
- (b) *Land Use By-law* means the West Hants Land Use By-law, approved on May 13, 2008, as amended, or successor By-laws;
- (c) *Subdivision By-law* means the West Hants Subdivision By-law, approved on May 13, 2008, as amended, or successor By-laws.

## **PART 2 DEVELOPMENT REQUIREMENTS**

### **2.1 Use**

The Parties agree that the uses on the Properties shall be limited to the following:

- (a) those uses permitted by the underlying zoning in the Land Use By-law; and
- (b) two-unit dwellings.

Except as otherwise provided in this Agreement, the provisions of the Land Use By-law and the Subdivision By-law apply to any development undertaken pursuant to this Agreement.

**2.2 Development Location and Design**

The development location and design shall conform to the following at all times:

- (a) a minimum of 30 percent of the dwellings constructed must be single unit dwellings;
- (b) maximum units per phase shall not exceed the numbers shown on the Unit Summary table on Schedule B;
- (c) the development shall be constructed using any of the lot configurations or design elements shown in Schedule B; and
- (d) the gross density of the development shall not exceed four and a half (4.5) dwelling units per acre. Where the gross density exceeds three (3) dwelling units per acre, at least 10 percent of the total area of the property shall be dedicated to the Municipality for parkland or open space purposes. This includes the 5% parkland dedication required in the Subdivision By-law. The Public Parkland outlined in the parkland agreements entered into by the Owner and the Municipality on August 22, 2011 and April 10, 2012 may be used as part of the parkland contribution requirement for this development.

**2.3 Lot and Yard Requirements**

All Single Unit dwellings shall conform to the following lot requirements:

Minimum Lot Area	6,000 ft <sup>2</sup> (557.40 m <sup>2</sup> ) 7,000 ft <sup>2</sup> (650.30 m <sup>2</sup> ) for corner lots
Minimum Lot Frontage	50 ft. (15.24 m)
Minimum Front/Flankage Yard	25 ft (7.62 m)
Minimum Rear Yard	25 ft (7.62 m)
Minimum Side Yard	6 ft. (1.83 m) on both sides
Maximum Height of Main Building	35 ft (10.67 m)

All Two-unit dwellings shall be regulated under sections 9.2 and 9.3 of the Land Use By-law.

The Development Officer may grant a variance from one or more of the following subject to the requirements of the Municipal Government Act:

- (a) minimum lot area and frontage;

- (b) minimum yard dimensions;
- (c) percentage of land that may be built upon;
- (d) number of parking and loading spaces required;
- (e) height of a structure;
- (f) floor area occupied by a home-based business; and
- (g) height and area of a sign.

#### **2.4 Access and Egress**

Before a development permit can be issued for the 100th residential unit within the area of the development agreement and/or prior to the commencement of any development in Phase 3 as shown on Schedule B, a Traffic Impact Study must be submitted to the Municipality and approved by Department of Transportation and Infrastructure Renewal, and all work required by the recommendations in the Traffic Impact Study must be completed. This requirement applies only to applications for development permits made following the effective date of this development agreement.

#### **2.5 Roads and Municipal Services**

Roads and Municipal Services in the development shall conform to the following:

- (a) the layout of streets within the development shall be as generally shown on Schedule B. The Development Officer, in consultation with the Municipal Engineer, may give consideration to minor incidental changes to the street layout;
- (b) all streets and municipal services within the development shall be designed and constructed in accordance with the requirements of the Municipal Services Specifications Manual. Detailed design plans of the street networks, water and sewer servicing and storm water systems shall be approved by the Municipal Engineer for each phase of the development prior to construction commencing for that phase; and
- (c) the development of new streets not shown on Schedule B for the purpose of development shall be permitted provided all requirements of the Subdivision By-law are met.

#### **2.6 Parking**

Parking shall be provided in accordance with the requirements of section 5.31 of the Land Use By-law.

#### **2.7 Signs and Lighting**

Signage and illumination shall be regulated under sections 5.18 and 7.0 of the Land Use By-law which controls lighting, size, location, and number of signs. Exterior lighting for driveways, parking areas, signs or structures shall be shielded and directed downward to minimize light spilling, glare or light cast over neighbouring properties or the street.

## **2.8 Maintenance**

The Owner shall keep the Properties and buildings and any portion thereof clean and in good repair. Any driveways, fences, lawns, trees, shrubs, walkways and other landscaping elements shall be regularly maintained and kept in a tidy state and free from unkempt materials or matter of any kind.

## **2.9 Storm Drainage**

The Owner shall ensure the Stormwater Management Plan, Schedule C, is implemented to ensure neighboring properties are not negatively impacted by storm drainage.

The Owner may transfer ownership of the stormwater management system, and specifically the detention pond, to the Municipality provided all acceptance requirements in the Subdivision By-law are met. If the Owner wishes to enable alternative requirements for acceptance, the Owner may enter into a servicing agreement with the Municipality as outlined in the Subdivision By-law.

If the Owner wishes to retain ownership of the stormwater management system, and specifically the detention pond, the Owner must provide the Municipal Engineer evidence annually, or upon request of the Municipality, that the detention pond conforms to the performance expectations detailed in Schedule "C" of this agreement. All costs associated with addressing performance concerns will be at the sole expense of the owner and must be addressed by the Owner within six (6) months of notification. The Owner may be given an extension in writing by the Development Officer to complete the work for an equivalent period. Should the owner not address the concerns, the Municipality reserves the rights to make any repairs necessary and charge the Owner for the costs incurred.

## **PART 3 CHANGES AND DISCHARGE**

- 3.1** The Owner shall not vary or change the use of the Properties from that provided for in *Section 2.1 Uses* of this Agreement unless a new agreement is entered into with the Municipality or this Agreement is amended.
- 3.2** Any matters in this Agreement which are not specified in Subsection 3.3 below are not substantive matters and may be changed with the written consent of Council without a public hearing provided that Council determines that the changes do not significantly alter the overall intended effect of this Agreement.
- 3.3** The following matters are substantive matters:
- (a) the uses permitted on the Properties as listed in *Section 2.1 Use* of this Agreement;
  - (b) the location and design requirements for the Properties as listed in *Section 2.2 Development Location and Design*;
  - (c) the lot and yard requirements for the Properties as listed in *Section 2.3 Lot and Yard Requirements* of this Agreement; and

- (d) the stormwater management plan for the Properties as described in Section 2.9 Storm Drainage of this Agreement.
- 3.5** Notwithstanding the foregoing, discharge of this agreement is not a substantive matter and this agreement may be discharged by Council without a public hearing.
- 3.6** Notice of Intent to Discharge this Agreement may be given by the Municipality to the Owner following a resolution of Council to give such Notice:
- (a) as provided for in *Section 4.1 Commencement of Operation* of this Agreement; or
  - (b) at the discretion of the Municipality, with or without the concurrence of the Owner, where the Development has, in the reasonable opinion of Council on advice from the Development Officer, ceased operation for a period of at least forty-eight (48) months; or
  - (c) at any time upon the written request of the Owner, provided the use of the Properties is in accordance with the Land Use By-law or a new Agreement has been entered into.
- 3.7** Council may discharge this Agreement 30 days after a Notice of Intent to Discharge has been given.

## **PART 4 IMPLEMENTATION**

### **4.1 Commencement of Operation**

- (a) The Owner may not commence any construction or use on the Properties related to this development until the Municipality has issued any development permit, building permit and/or occupancy permit that may be required.
- (b) Development as provided in Part 2 of this Agreement shall commence not later than forty-eight (48) months from the date this Agreement is signed. If, in the opinion of the Development Officer, this time limit has not been met, this Agreement may be discharged at the option of the Municipality by resolution of Council 30 days after giving Notice of Intent to Discharge to the Owner. Upon the written request of the Owner, the Municipality, by resolution of Council, may grant an extension to the date of commencement of development without such an extension being deemed to be an amendment to this Agreement.
- (c) If the Owner is bona fide delayed from commencing the development for reasons which are beyond the Owner's control, the determination of which shall be at the sole discretion of the Development Officer, then performance by the Owner is excused for the period of the delay and the time period for the Owner to perform their obligations shall be extended by the Development Officer in writing for an equivalent period, without such an extension being deemed to be an amendment to this Agreement.

### **4.2 Material to be Provided**

- (a) The Owner shall provide record drawings to the Development Officer for any portion of the development for which an engineered design is required within ten (10) days of completion of any work which requires the engineered design.
- (b) The Owner shall, upon written request, provide the Municipality with copies of any documentation, permits or approvals required by Provincial or Federal governments or agencies.

## **PART 5 ADMINISTRATION and COMPLIANCE**

### **5.1 Compliance with Other By-laws and Regulations**

- (a) Nothing in this Agreement shall exempt the Owner from complying with Federal, Provincial and Municipal laws, by-laws and regulations in force or from obtaining any Federal, Provincial, or Municipal license, permission, permit, authority, or approval required thereunder.
- (b) Where the provisions of this Agreement conflict with those of any by-law of the Municipality applicable to the Properties (other than the Land Use By-law to the extent varied by this Agreement) or any statute or regulation, the higher or more stringent requirements shall prevail.

### **5.2 Severability of Provisions**

The provisions of this Agreement are severable from one another and the invalidity or unenforceability of one provision shall not affect the validity or enforceability of any other provision.

### **5.3 Interpretation**

- (a) Where the context requires, the singular shall include the plural and the masculine gender shall include the feminine and neutral gender.
- (b) Where the written text of this Agreement conflicts with information provided in the Schedules attached to this Agreement, the written text of this Agreement shall prevail.

### **5.4 Municipal Responsibility**

- (a) The Municipality does not make any representations to the Owner about the suitability of the Properties for the development proposed by this agreement. The Owner assumes all risks and must ensure that any proposed development complies with this Agreement and all other laws pertaining to the Development.
- (b) Any failure of the Municipality to insist upon a strict performance of any requirements or conditions contained in this Agreement shall not be deemed a waiver of any rights or remedies that the Municipality may have and shall not be deemed a waiver of any subsequent breach or default in the conditions or requirements contained in this Agreement.

### **5.5 Breach of Terms or Conditions**

Upon breach of any term or condition of this Agreement, the Municipality may notify the Owners in writing. In the event that the Owners have not cured any such breach or entered into arrangements with the Municipality related to such breach to the Municipality's satisfaction, acting reasonably, within six (6) months of such notice then the Municipality may rely upon the remedies contained in Section 264 of the *Municipal Government Act* and may enter the land and perform any of the terms contained in the Development Agreement, or take such remedial action as is considered necessary to correct a breach of the Agreement, including the removal or destruction of anything that contravenes the terms of the Agreement and including decommissioning the site. It is agreed that all reasonable expenses, whether arising out of the entry on the land or from the performance of the terms, are a first lien on the land that is the subject of the Development Agreement.

#### **5.6 Costs**

The Owner shall pay all costs associated with the costs of registering this Agreement and discharging any prior agreements encumbering the Properties, and all costs associated with any amendment thereof.

#### **5.7 Development Agreement Bound to Land**

- (a) This Agreement shall be binding upon the parties hereto and their heirs, executors, administrators, successors, and assigns, and shall run with the land which is the subject of this Agreement until such time as it is discharged by the Municipality.
- (b) This Agreement replaces and discharges the Development Agreement between the Municipality of the District of West Hants and the Owner dated August 7, 2007 and recorded at the Registry of Deeds in the Province of Nova Scotia on September 27, 2007 as Document No. 88923751.

#### **5.8 Assignment of Agreement**

The Owner may, at any time and from time to time, transfer or assign this Agreement and its rights hereunder and may delegate its obligations hereunder to an assign, successor, heir, or purchaser of the land bound by this Agreement.

#### **5.9 Written Notice**

- (a) The Municipality may serve notice on the Owner personally or by ordinary mail which shall be deemed to have been received within three (3) business days of mailing, addressed to 258 King Street P.O. Box 2018 Windsor, NS, CA B0N 2T0, or at any other address provided by the Owner.
- (b) The Owner may serve notice on the Municipality by registered mail addressed to the Chief Administrative Officer, West Hants Regional Municipality, 76 Morison Drive, P.O. Box 3000, Windsor, Nova Scotia, B0N 2T0.

#### **5.10 Full Agreement**

This Agreement constitutes the entire Agreement and contract entered into by the Municipality and the Owner. No other agreement or representation, oral or written, shall be binding.

**IN WITNESS WHEREOF** this Agreement was properly executed by the respective parties hereto on the day and year first above written.

**SIGNED, SEALED AND DELIVERED**

In the presence of:

**WEST HANTS REGIONAL MUNICIPALITY**

\_\_\_\_\_  
Witness

)  
)  
)  
) Per: \_\_\_\_\_  
) Abraham Zebian, Mayor  
)

\_\_\_\_\_  
Witness

) Per: \_\_\_\_\_  
) Rhonda Brown, Municipal Clerk  
)

\_\_\_\_\_  
Witness

) **Brison Developments Limited**  
)  
)  
) Per: \_\_\_\_\_  
) Mitchel Brison, President



AFFIDAVIT OF CLERK  
WEST HANTS REGIONAL MUNICIPALITY

I, Rhonda Brown of \_\_\_\_\_, Hants County, Nova Scotia make oath and swear that:

1. I am the Clerk of the West Hants Regional Municipality (The "Municipality") and I have personal knowledge of the matters to which I have sworn in this Affidavit.
2. The Municipality is a body corporate pursuant to the Municipal Government Act, S.N.S. 1988, c.18, as amended.
3. I acknowledge that the Municipality executed the attached Instrument by its proper designates duly authorized in that regard under seal on the date of this Affidavit pursuant to subsection 13(3) of the Municipal Government Act, S.N.S. 1988, c.18, as amended. This acknowledgement is made pursuant to subsection 31(a) of the Registry Act, R.S.N.S. 1989, c.392 and/or clause 79(1)(a) of the Land Registry Act, S.N.S. 2001, c.6, as amended, for the purpose of registering or recording the Instrument.
4. The Municipality is resident in Canada for the purposes of the Income Tax Act (Canada).

Sworn before me at \_\_\_\_\_, Nova Scotia,  
this \_\_\_\_\_, 2021.

\_\_\_\_\_  
A BARRISTER/COMMISSIONER OF THE  
SUPREME COURT OF NOVA SCOTIA  
Print name/affix seal

\_\_\_\_\_  
RHONDA BROWN

I CERTIFY that on this date Rhonda Brown personally came before me and swore under oath the foregoing Affidavit.

\_\_\_\_\_  
A BARRISTER/COMMISSIONER OF THE  
SUPREME COURT OF NOVA SCOTIA  
Print name/affix seal

Canada  
Province of Nova Scotia

AFFIDAVIT & PROOF OF EXECUTION (CORPORATE)

I, Mitchel Brison, Nova Scotia, make oath and say that:

1. I am Mitchel Brison of Brison Developments Limited, the "Corporation". Except as otherwise stated I have personal knowledge of the matters to which I have sworn in this Affidavit.
2. I acknowledge that I executed the foregoing instrument on behalf of the Corporation on the date of this affidavit; this acknowledgment is made for the purpose of registering such instrument pursuant to s.31(a) of the Registry Act, R.S.N.S. 1989, c.392 or ss.79 and 83 of the Land Registration Act as the case may be.
3. I verify that I have the authority to execute the foregoing instrument on behalf of the corporation and thereby bind the Corporation.
4. The Corporation is a resident of Canada under the Income Tax Act (Canada).
5. The ownership of a share or an interest in a share of the Corporation does not entitle the owner of such share or interest in such share to occupy a dwelling owned by the Corporation.

I certify that on this **Month Day**, 2021 the Deponent came before me, made oath, and swore the foregoing affidavit at \_\_\_\_\_, Nova Scotia.

Print Name:

Authority (e.g. Commissioner of Oaths):  
Please affix seal

**Schedule 'A'**  
**Legal Description – PID 45371879**

Place Name: FALMOUTH BACK ROAD FALMOUTH  
Municipality/County: MUNICIPALITY OF THE DISTRICT OF HANTS WEST/HANTS COUNTY  
Designation of Parcel on Plan: BLOCK 1-R  
Title of Plan: SURVEY PARCEL PH-2, S/D PORTION BLOCK 1, LANDS OF MEADOWS DEVELOPMENT LTD, FALMOUTH BACK RD, AYLWARD RD & SHETLAND RD (PROPOSED), FALMOUTH, APP PARCEL PH-2 & BLOCK 1-R  
Registration County: HANTS COUNTY  
Registration Number of Plan: 88595377  
Registration Date of Plan: 2007-08-16 13:49:14

SAVING and EXCEPTING Lot MD-1 as shown on registered Plan No. 91651050 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOTS M-1 to M-4, inclusive as shown on registered Plan No. 97335914 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOTS 114-121 inclusive, as shown on registered Plan No. 99835861 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 113 as shown on registered Plan No. 99835861 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 112 as shown on registered Plan No. 100545707 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 103 as shown on registered Plan No. 104799615 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 104 and LOT 105 as shown on registered Plan No. 105333000 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 109 as shown on registered Plan No. 106182976 at the Land Registration Office for Hants County.

SAVING AND EXCEPTING Lot 108 as shown on registered plan no. 107755051 recorded in the Land Registration Office for Hants County.

SAVING AND EXCEPTING Lot 106 as shown on registered plan no. 108175689 recorded in the Land Registration Office for Hants County.

SAVING and EXCEPTING Lot 107 as shown on registered Plan No. 108291684 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 110 as shown on registersred Plan No. 108314981 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 101 and LOT 102 as shown on registersred Plan No. 110487163 at the Land Registration Office for Hants County.

\*\*\* Municipal Government Act, Part IX Compliance \*\*\*

Compliance:

The parcel is created by a subdivision (details below) that has been filed under the Registry Act or registered under the Land Registration Act  
Registration District: HANTS COUNTY  
Registration Year: 2017  
Plan or Document Number: 110487163

The MGA compliance statement has been applied by SNSMR during the processing of Land Registration Plan.

#### **Legal Description – PID 45383379**

Registration County: HANTS COUNTY  
Street/Place Name: FALMOUTH DYKE ROAD /FALMOUTH  
Title of Plan: PLAN OF S/D OF LOT GE-2, LAND OF RICHARD ARNOLD ELDRIDGE, TO FORM LOT GE-2A & REMAINDER LOT GE-2B, FALMOUTH DYKE RD, FALMOUTH  
Designation of Parcel on Plan: LOT GE-2A  
Registration Number of Plan: 96299525  
Registration Date of Plan: 2010-07-07 11:26:40

#### **Legal Description – PID 45371887**

Place Name: FALMOUTH BACK ROAD FALMOUTH  
Municipality/County: MUNICIPALITY OF THE DISTRICT OF HANTS WEST/HANTS COUNTY  
Designation of Parcel on Plan: PARCEL PH-2  
Title of Plan: SURVEY PARCEL PH-2, S/D PORTION BLOCK 1, LANDS OF MEADOWS DEVELOPMENT LTD, FALMOUTH BACK RD, AYLWARD RD & SHETLAND RD (PROPOSED), FALMOUTH, APP PARCEL PH-2 & BLOCK 1-R  
Registration County: HANTS COUNTY  
Registration Number of Plan: 88595377  
Registration Date of Plan: 2007-08-16 13:49:14

SAVING and EXCEPTING LOTS M-2 to M-10, inclusive as shown on registered Plan No. 97335914 at the Land Registration Office for Hants County.

The parcel originates with an approved plan of subdivision that has been filed under the Registry Act or registered under the Land Registration Act at the Land Registration Office for the registration district of Hants as plan or document number 97335914.

The MGA compliance statement has been applied by SNSMR during the processing of the abovementioned plan 97335914.

**Legal Description – PID 45383957**

Parcel Description

Registration County: HANTS COUNTY

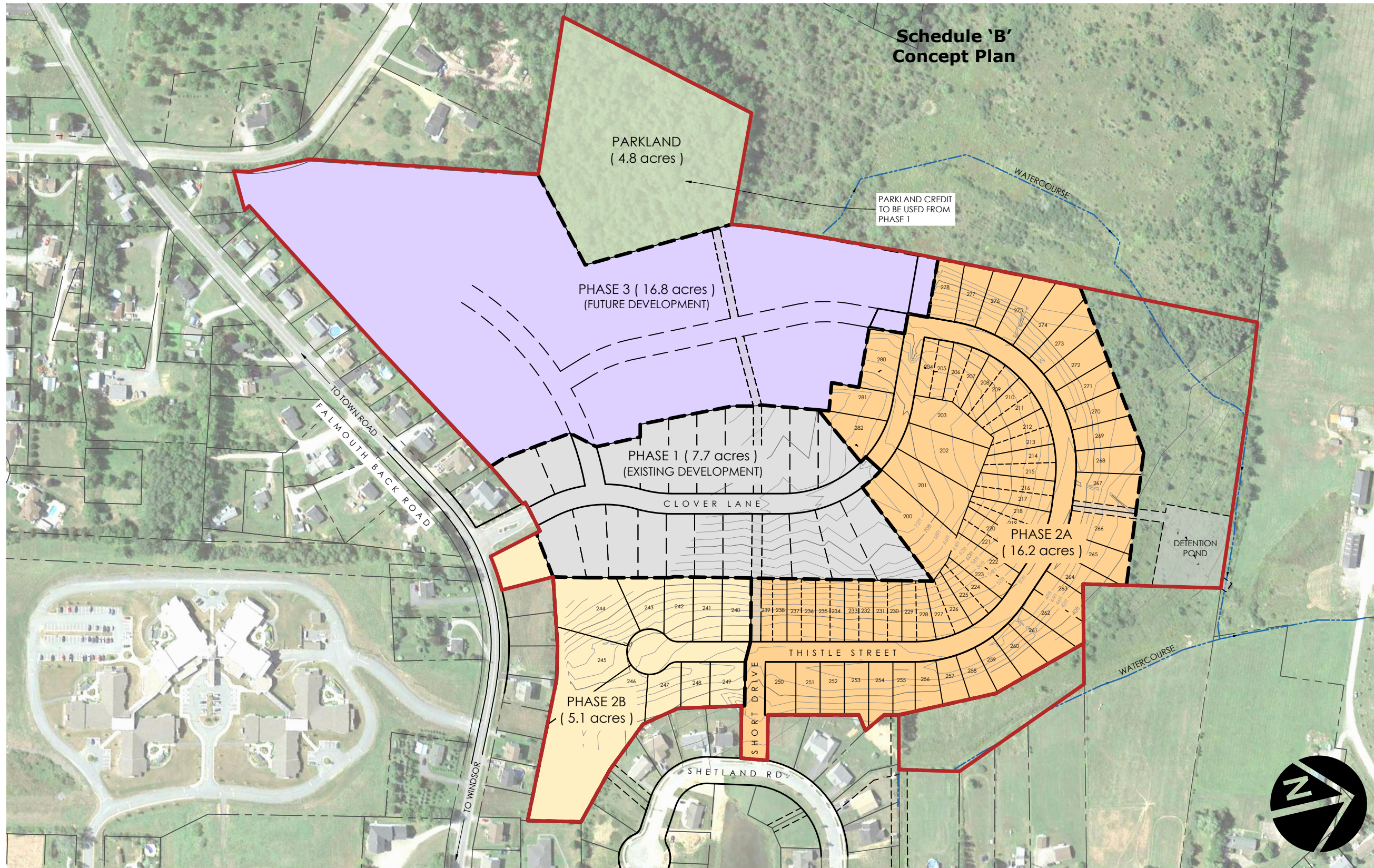
Street/Place Name: FALMOUTH BACK ROAD /FALMOUTH

Title of Plan: PLAN OF SURVEY OF LOTS M-1 TO M-10, BEING A S/D AND CONSOLIDATION OF BLOCK 1-RA & PARCEL PH-2, LANDS OF BUCKWOOD INVESTMENTS LTD & LANDS CLAIMED BY BUCKWOOD INVESTMENTS LTD, (THE OLD TOWNSHIP RD), FALMOUTH BACK RD, FALMOUTH

Designation of Parcel on Plan: LOT M-2

Registration Number of Plan: 97335914

Registration Date of Plan: 2010-12-02 13:22:33



**LEGEND**

- Site Boundary
- - - - - Adjacent Property Boundary

**UNIT SUMMARY**

	Area (acres)	Maximum Units
Phase 2A (R1)	16.2	36
Phase 2A (R2)		36
Phase 2B (R1)	5.1	10
<b>Total</b>	<b>21.3</b>	<b>82</b>

Phase 3 up to maximum of 75 units

**SITE SUMMARY:**

- Existing Zone: Multiple Residential
- Total Land Area: 56.7 acres

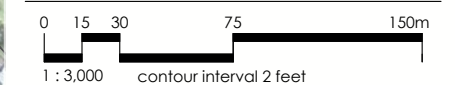
**NOTES:**

- Subject to survey. Property lines and topographic features are approximate only.
- Site subject to by-law review and regulations.

**SOURCES:**

- Plan based on DesignPoint Site Plan file: '14-033\_Base\_20200401.dwg'

**SCALE:**



**Zwicker  
Zareski  
architecture +  
planning**

**Site Plan : The Meadows**

Falmouth, Nova Scotia

1 Canal Street, Dartmouth, NS B2Y 2W1 ZZap.ca

**Version 104**

Designer: K.WATTERS  
Planner: C.MARKIDES  
Date: JUNE 08, 2020

FILE: C:\Users\Ken.Zzap.ca\Business Development - Documents\2020\027 Brison - Meadows\1\_DWG\1\_Site Plan\20-BD-027-SITE\_PLAN-104.dwg SHEET: 11x17

# Schedule 'C'

## Stormwater Management Plan



June 22, 2020

**West Hants Regional Municipality**

100 King Street

Windsor, Nova Scotia B0N 2T0

Attention: Rick Sherrard, Manager of Technical Engineering Services

**RE: The Meadows Phase 2A – Storm Drainage System Modification Request**

DesignPoint Project #: 14-033

Further to our site meeting, I herein request that the Municipality allow the Developer to modify the storm drainage plan as follows:

- 1) Install an additional 250 mm $\varnothing$  PVC DR35 storm pipe from CB7-A and CB7-B to rear lot line between lots 240 and 242. This pipe will discharge water from area A7 only (2.1 acres). The discharge will be directed into the existing ditch/drainage route at the rear of the lots, the property at this location is owned by Brison Developments. This ditch drains to the same watercourse that the discharge from the drainage pond for the project discharges to.
- 2) Remove the deep storm sewer pipes from MHST7A to MHST9 and from MHST7 to MHST5, with CB7-A and CB7-B directed to the ditch as described above. The deep storm sewer pipes are not needed for CB7-A and CB7-B. The Developer has decided to build all homes as slab on grade and therefore a deep storm sewer for footing drains is not required.

We will be able to balance the pre and post development flows with oversized pipe or perforated pipe. This storm water design approach will provide adequate drainage for this project and will meet all regulatory requirements.

For reference, refer to attached design drawings for The Meadows Phase 2, sheets 1-11, revision 3, dated June 12, 2019, as signed by myself.

If this is acceptable to the Municipality, we will submit a revised design along with the storm drainage calculations.

If you have any questions, please feel free to contact me.

Thank you,

**DesignPoint Engineering & Surveying Ltd.**

A handwritten signature in blue ink that reads "Glenn Woodford".

Glenn Woodford, P.Eng.

Senior Engineer & Principal

GSW/alc

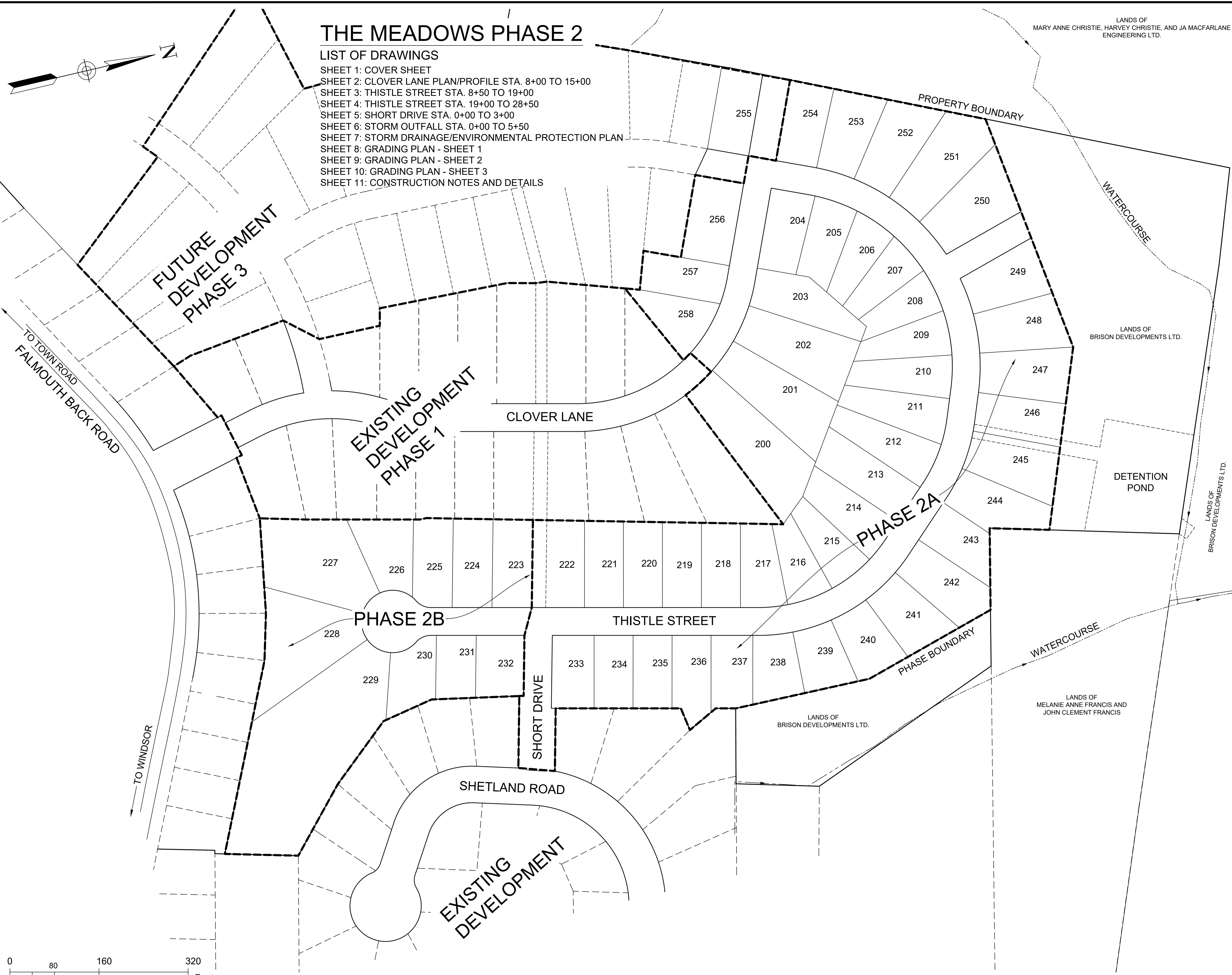
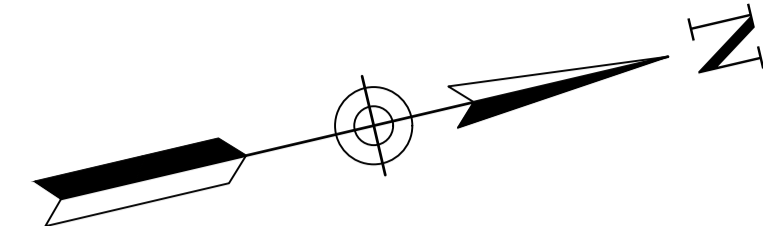
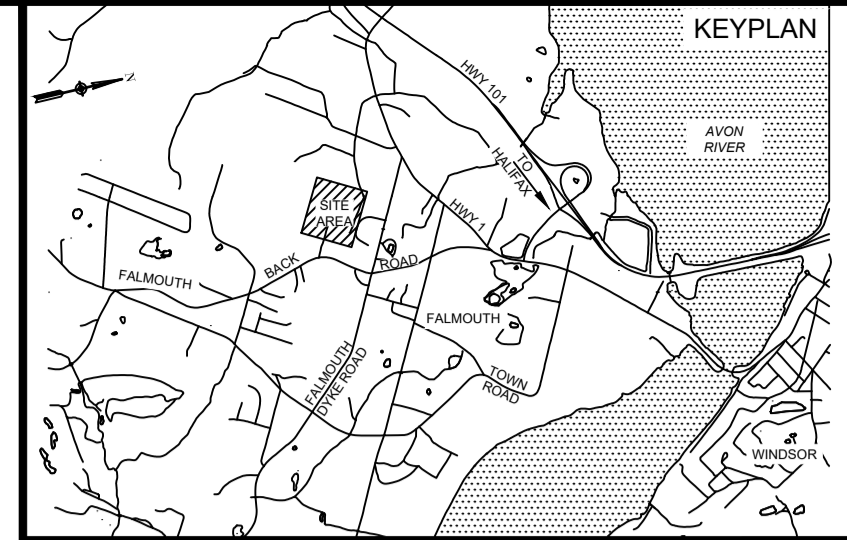
Enclosures: The Meadows Phase 2 Design Drawings

# THE MEADOWS PHASE 2

## LIST OF DRAWINGS

- SHEET 1: COVER SHEET
- SHEET 2: CLOVER LANE PLAN/PROFILE STA. 8+00 TO 15+00
- SHEET 3: THISTLE STREET STA. 8+50 TO 19+00
- SHEET 4: THISTLE STREET STA. 19+00 TO 28+50
- SHEET 5: SHORT DRIVE STA. 0+00 TO 3+00
- SHEET 6: STORM OUTFALL STA. 0+00 TO 5+50
- SHEET 7: STORM DRAINAGE/ENVIRONMENTAL PROTECTION PLAN
- SHEET 8: GRADING PLAN - SHEET 1
- SHEET 9: GRADING PLAN - SHEET 2
- SHEET 10: GRADING PLAN - SHEET 3
- SHEET 11: CONSTRUCTION NOTES AND DETAILS

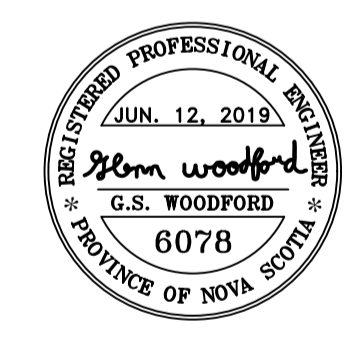
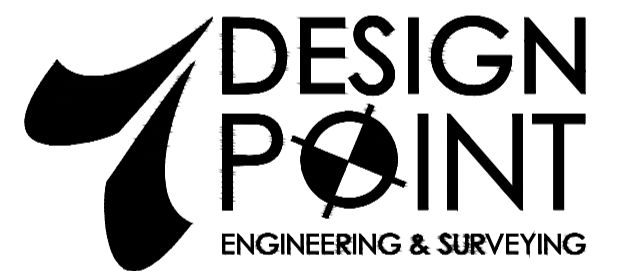
LANDS OF  
MARY ANNE CHRISTIE, HARVEY CHRISTIE, AND JA MACFARLANE  
ENGINEERING LTD.



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2	NOV. 04, 2015	REVISED AS PER MDWH COMMENTS
1	MAR. 27, 2015	ISSUED FOR REGULATORY REVIEW

CONSULTANT



CLIENT

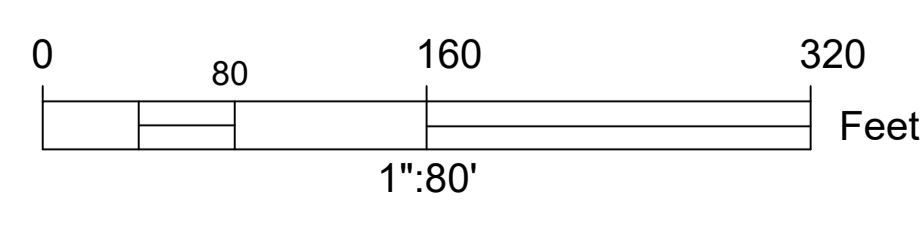


PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

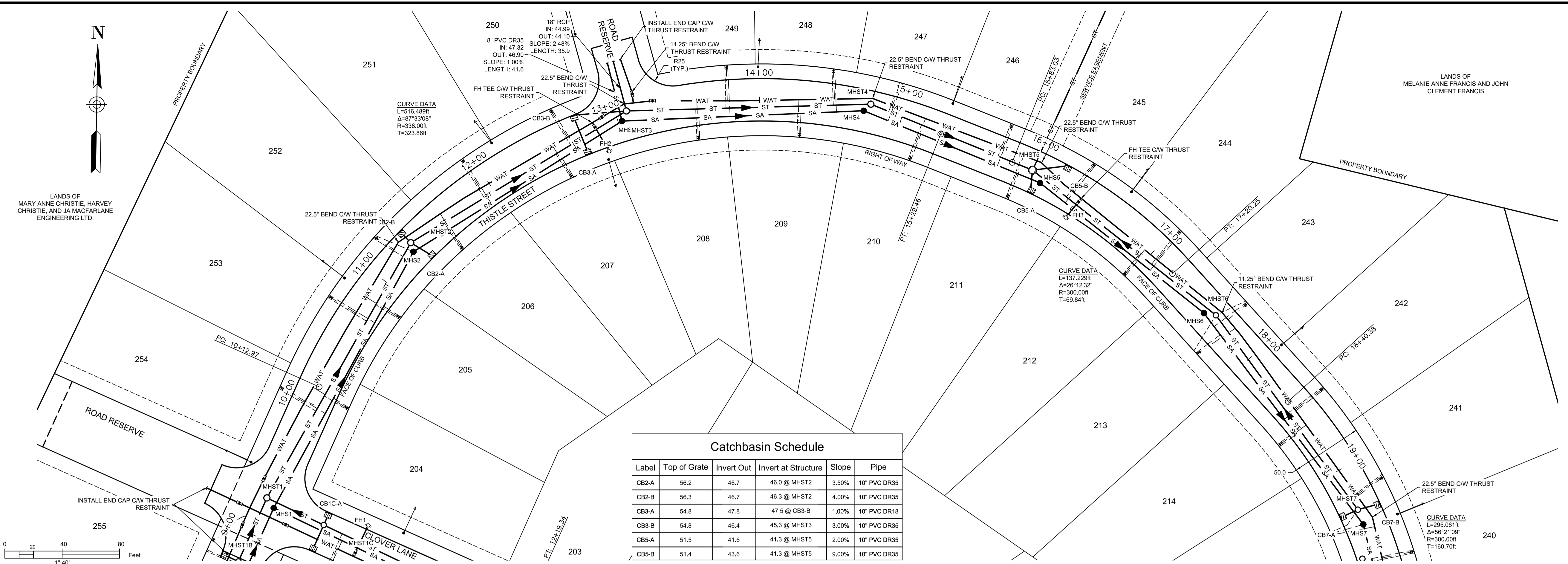
SHEET DESCRIPTION

**COVER  
SHEET**



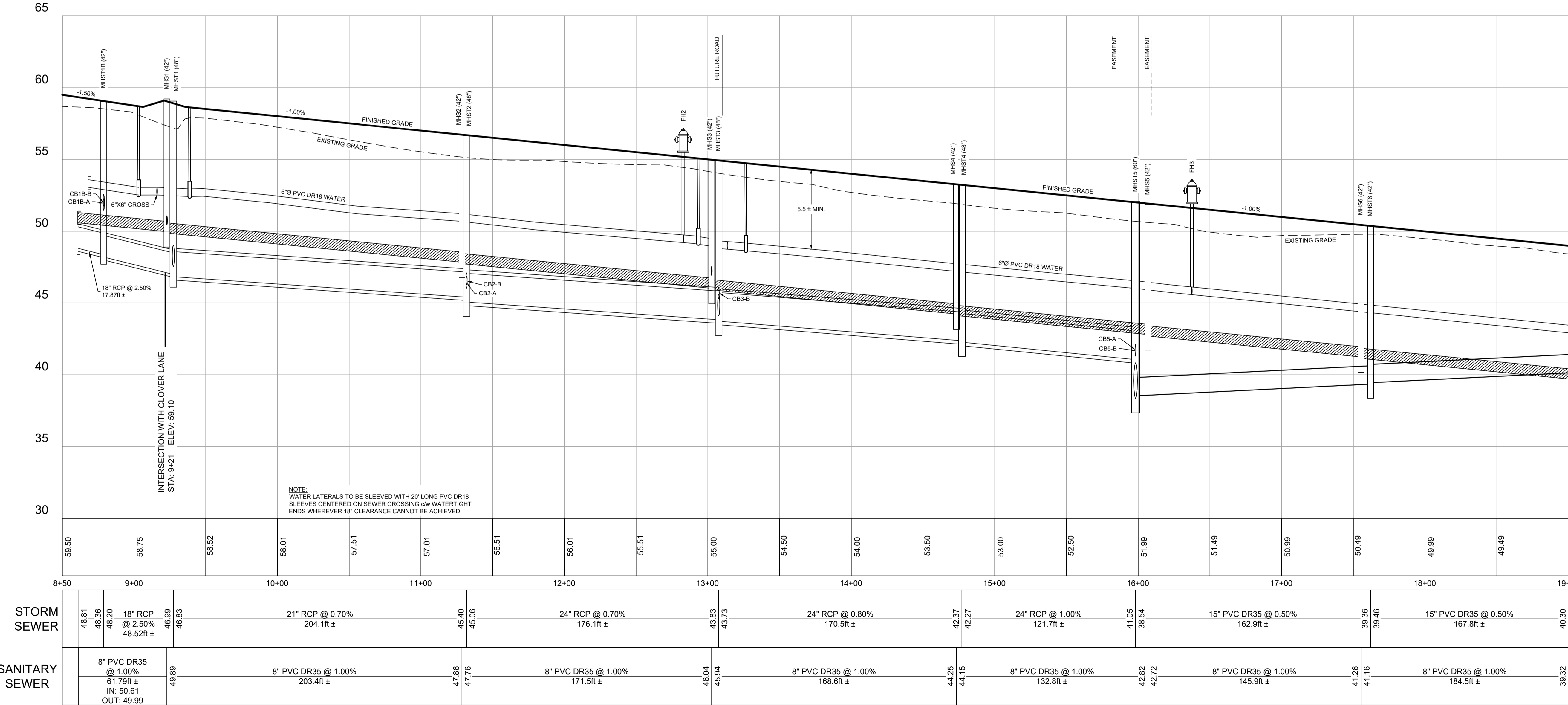
Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 1 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=80' H	Filename 14-033CBase.dwg	





Catchbasin Schedule					
Label	Top of Grate	Invert Out	Invert at Structure	Slope	Pipe
CB2-A	56.2	46.7	46.0 @ MHST2	3.50%	10" PVC DR35
CB2-B	56.3	46.7	46.3 @ MHST2	4.00%	10" PVC DR35
CB3-A	54.8	47.8	47.5 @ CB3-B	1.00%	10" PVC DR18
CB3-B	54.8	46.4	45.3 @ MHST3	3.00%	10" PVC DR35
CB5-A	51.5	41.6	41.3 @ MHST5	2.00%	10" PVC DR35
CB5-B	51.4	43.6	41.3 @ MHST5	9.00%	10" PVC DR35

LEGEND	
DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●— SA —●— SA
STORM LINE	—○— ST —○— ST —○— ST —○— ST
WATER LINE	—○— WAT —○— WAT —○— WAT —○— WAT
SANITARY LATERAL	—————
STORM LATERAL	—————
WATER LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH —OH— OH —OH— OH
WATER VALVE	⊞ FIRE HYDRANT
CURB STOP	⊞ UTILITY POLE
CATCHBASIN	⊞ PRECAST HEADWALL



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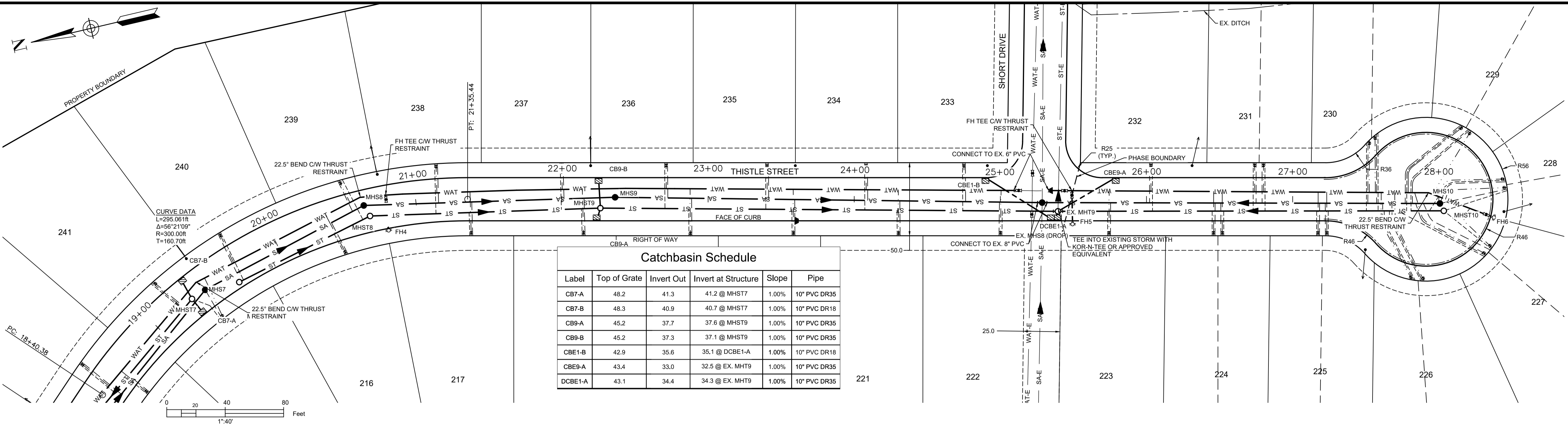
**PROJECT DESCRIPTION**

**THE MEADOWS PHASE 2**  
FALMOUTH, NOVA SCOTIA

**SHEET DESCRIPTION**

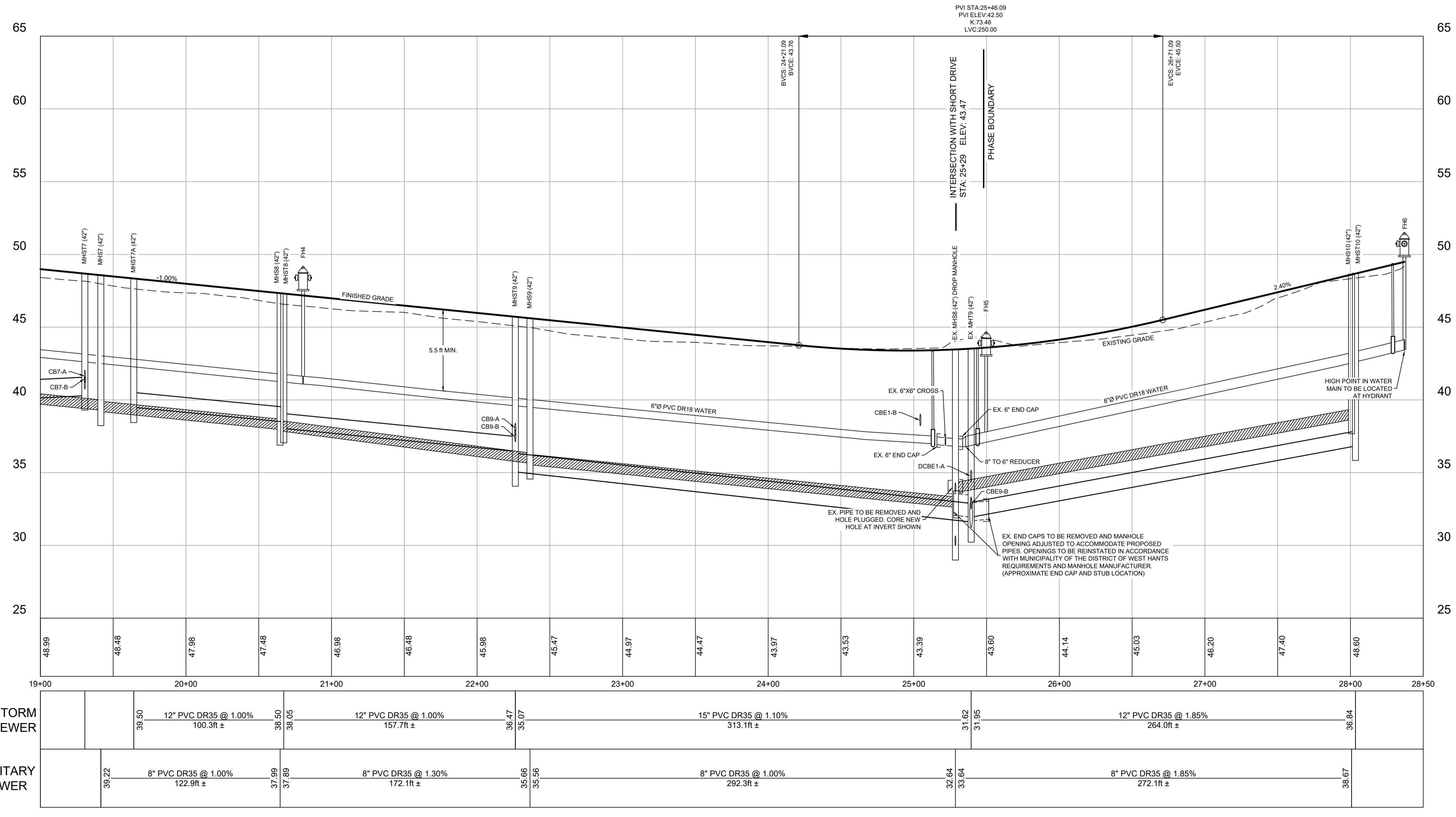
**PLAN / PROFILE**  
**THISTLE STREET**  
**STA. 8+50 TO 19+00**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. <b>3 of 11</b>
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



Label	Top of Grate	Invert Out	Invert at Structure	Slope	Pipe
CB7-A	48.2	41.3	41.2 @ MHST7	1.00%	10" PVC DR35
CB7-B	48.3	40.9	40.7 @ MHST7	1.00%	10" PVC DR18
CB9-A	45.2	37.7	37.6 @ MHST9	1.00%	10" PVC DR35
CB9-B	45.2	37.3	37.1 @ MHST9	1.00%	10" PVC DR35
CBE1-B	42.9	35.6	35.1 @ DCBE1-A	1.00%	10" PVC DR18
CBE9-A	43.4	33.0	32.5 @ EX. MHT9	1.00%	10" PVC DR35
DCBE1-A	43.1	34.4	34.3 @ EX. MHT9	1.00%	10" PVC DR35

DESIGN GRADE	---
EXISTING GRADE	---
CENTERLINE	---
RIGHT OF WAY	---
CURB	---
EASEMENT	---
PROPERTY BOUNDARY	---
SANITARY LINE	---S---S---
STORM LINE	---S---S---
WATER LINE	---W---W---
SANITARY LATERAL	---
STORM LATERAL	---
WATER LATERAL	---
STORM EASEMENT	---
OVERHEAD UTILITY	---OH---OH---
WATER VALVE	⊠
CURB STOP	⊠
CATCHBASIN	⊠
FIRE HYDRANT	⊠
UTILITY POLE	⊠
PRECAST HEADWALL	⊠



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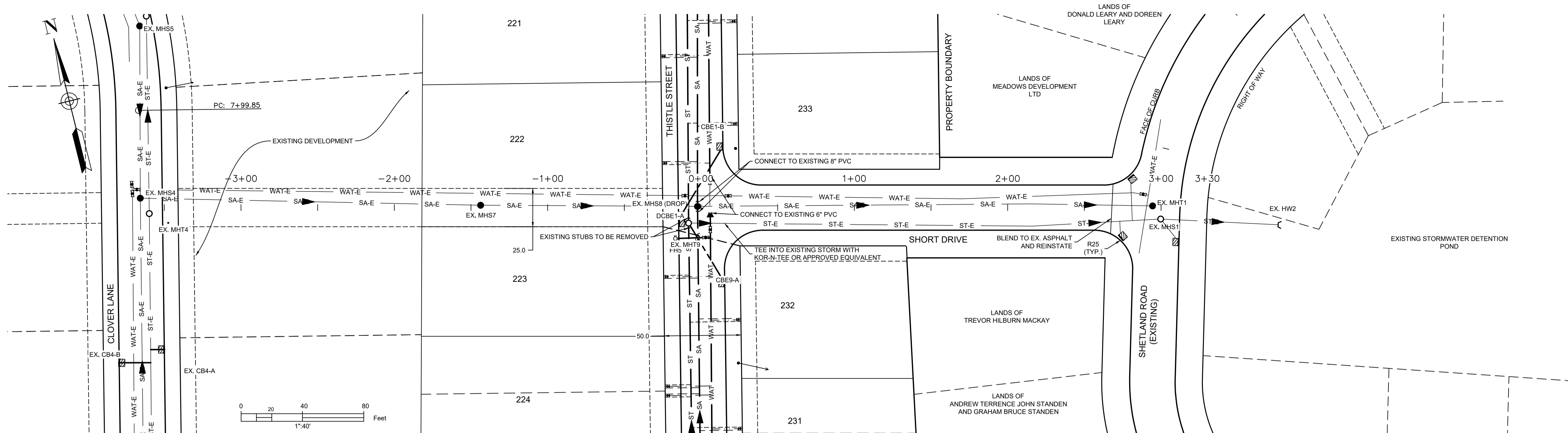
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

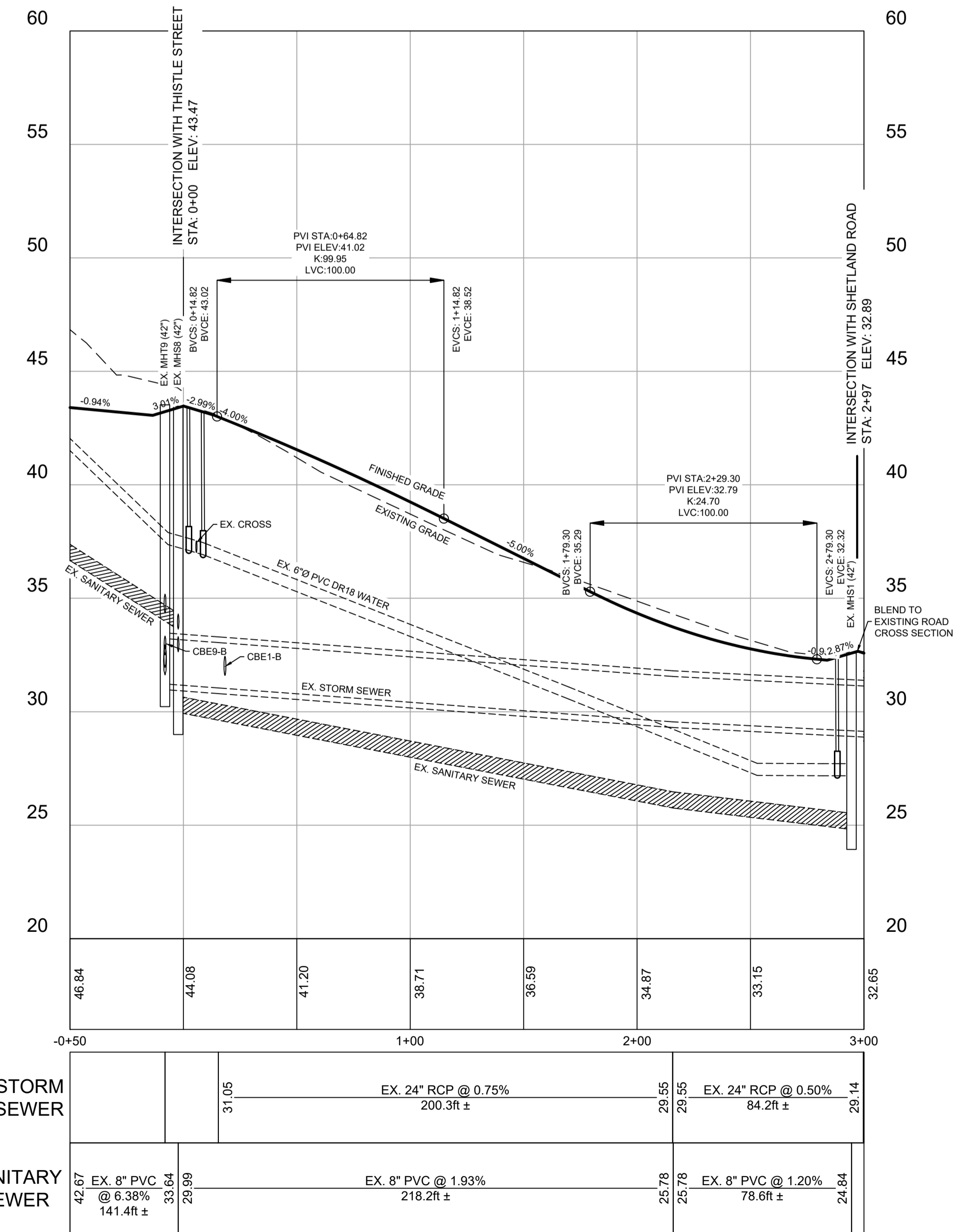
**PLAN / PROFILE**  
THISTLE STREET  
STA. 19+00 TO 28+50

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 4 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



### LEGEND

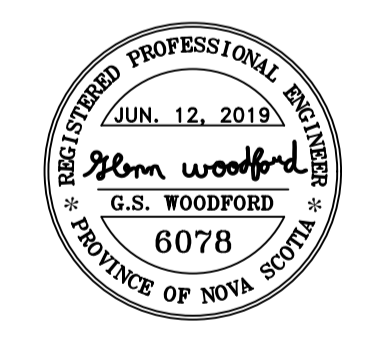
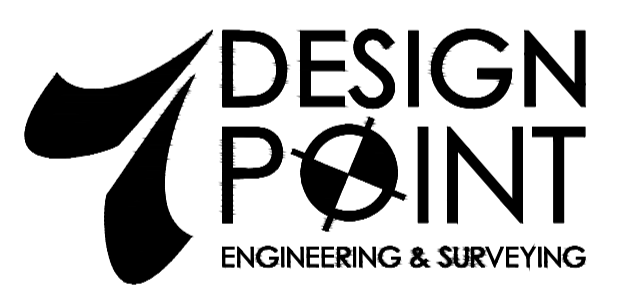
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EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●— MHS
STORM LINE	—○— ST —○— ST —○— MHS
WATER LINE	—WAT— WAT —WAT—
SANITARY LATERAL	—————
STORM LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH —OH—
WATER VALVE	⊠
FIRE HYDRANT	⊙
CURB STOP	⊛
UTILITY POLE	⊙
CATCHBASIN	⊠
PRECAST HEADWALL	⊠



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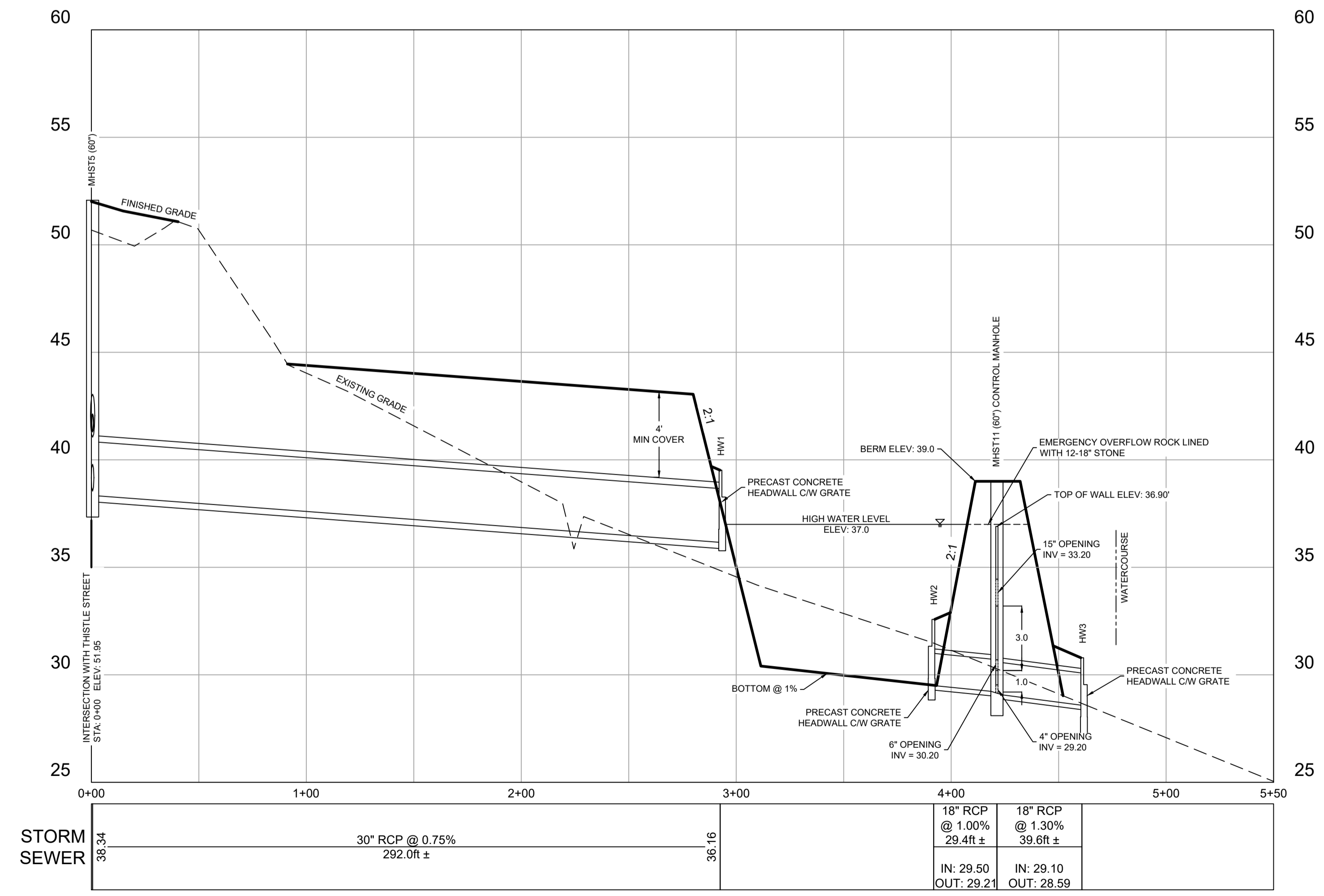
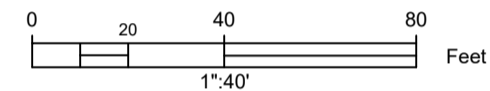
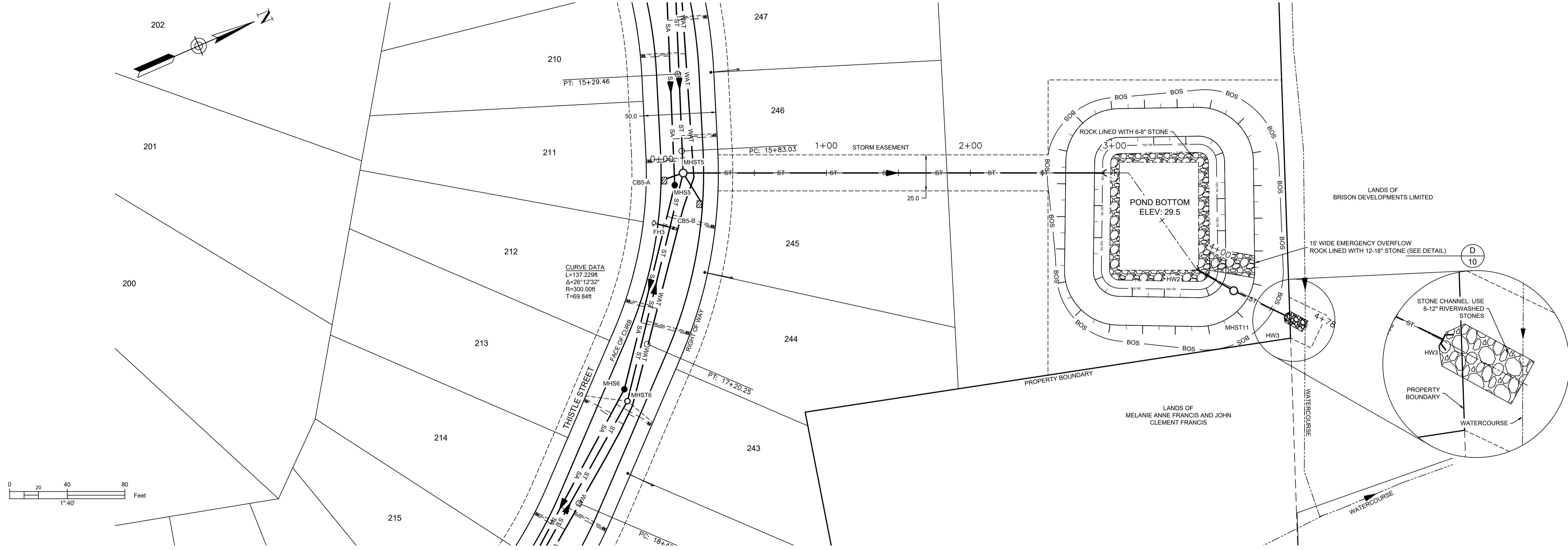
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

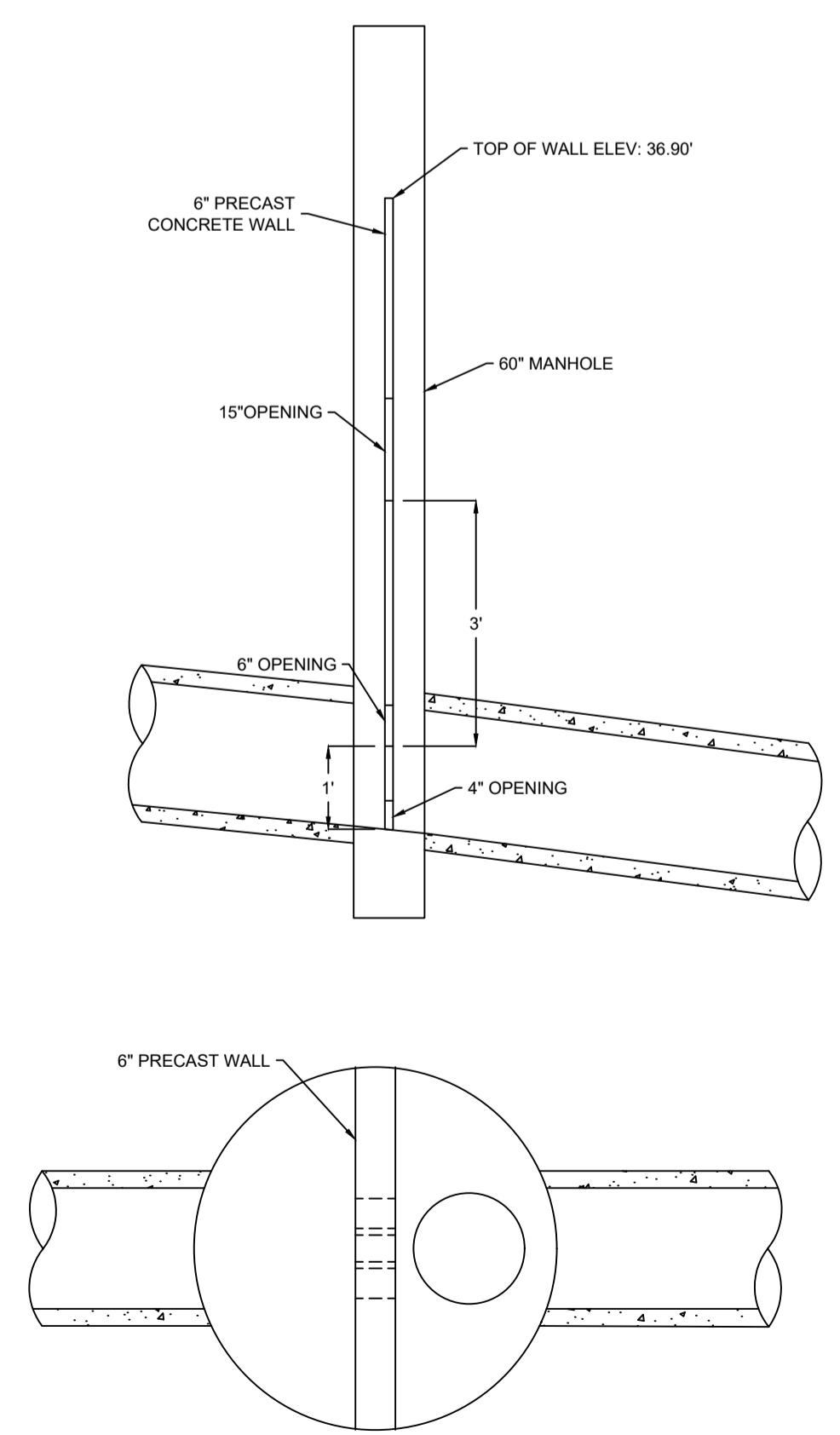
SHEET DESCRIPTION

**PLAN / PROFILE**  
SHORT DRIVE  
STA. 0+00 TO 3+00

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. <b>5 of 11</b>
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



DETAIL FOR MHST11 (NTS)



LEGEND	
DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●—
STORM LINE	—○— ST —○— ST —○—
WATER LINE	—WAT— WAT —WAT—
SANITARY LATERAL	—————
STORM LATERAL	—————
WATER LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH —OH—
WATER VALVE	—V—
FIRE HYDRANT	—FH—
CURB STOP	—CS—
UTILITY POLE	—UP—
CATCHBASIN	—CB—
PRECAST HEADWALL	—HW—

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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER  
JUN. 12, 2019  
G.S. WOODFORD  
6078  
PROVINCE OF NOVA SCOTIA

CLIENT

BRISON DEVELOPMENTS

PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**PLAN / PROFILE**  
STORM OUTFALL  
STA. 0+00 TO 5+50

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 6 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	

# GENERAL EROSION AND SEDIMENT CONTROL NOTES

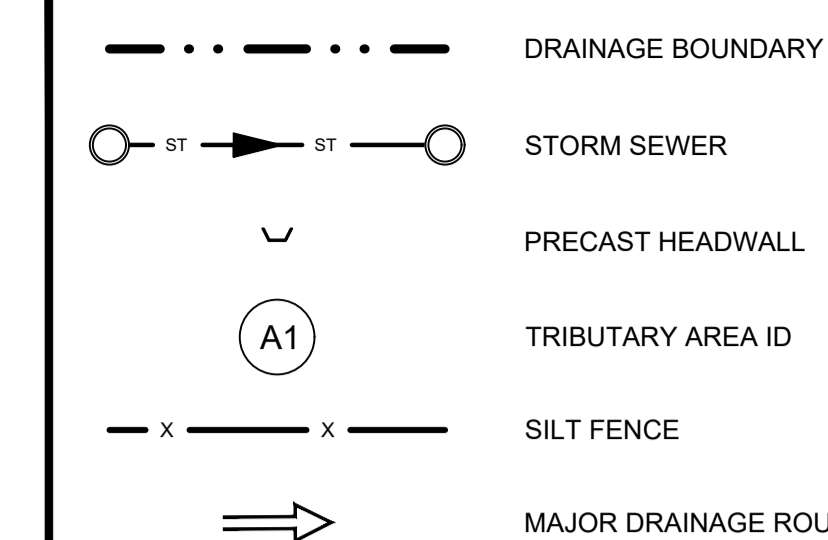
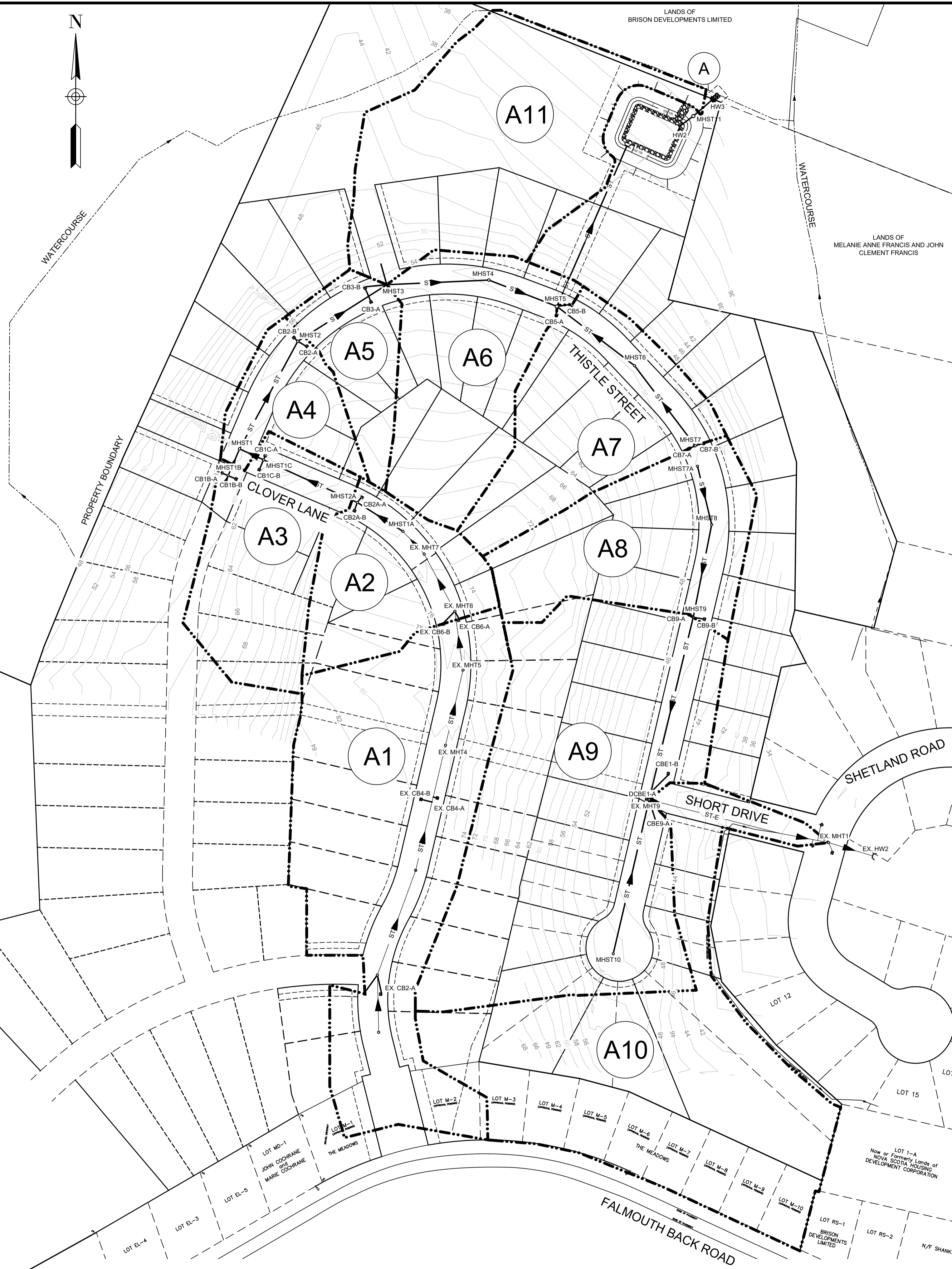
1. EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
2. ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF ENVIRONMENT REQUIREMENTS.
3. CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
4. CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
5. CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS ([https://weather.gc.ca/canada\\_e.html](https://weather.gc.ca/canada_e.html)).
6. CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
7. TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
8. CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
9. CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
10. EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
11. CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
12. SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
13. SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
14. UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
15. TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
16. ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
17. VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
18. STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.)
19. SITE ACTIVITY TO ADHERE TO REQUIREMENTS OF HALIFAX REGIONAL MUNICIPALITY TOPSOIL BY-LAW.
20. ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
21. SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.



Catchment	Area (ac) ±	Catchment	Area (ac) ±
A1	4.75	A7	2.10
A2	1.47	A8	2.06
A3	1.75	A9	5.48
A4	0.81	A10	4.80
A5	0.83	A11	3.66
A6	2.16	Total	29.87

Storm	Flow to Point A (cfs)	
	Pre-Development	Post-Development
5 Year	6.20	5.87
10 Year	9.49	7.59
25 Year	14.7	11.72
50 Year	18.66	15.18
100 Year	22.84	18.95

Minor Piped Storm System Drainage Analysis - SCS Method (10 Year Return)										
Upstream MH	Downstream MH	Tributary Area	Tributary Area +/- (Ac)	Qd - Design Flow (cfs)	Pipe Size (in)	Pipe Slope (%)	Qc - Pipe Capacity (cfs)	Qd/Qc	Depth of Flow (in)	Max. Velocity (ft/s)
EX 7	1A	A1	4.75	7.55	18	1.50	12.89	0.59	9.8	7.80
1A	2A	A1	4.75	7.58	18	3.25	18.92	0.40	7.8	10.13
2A	1	A1-A2	6.23	10.29	18	4.95	23.38	0.44	8.3	12.81
1	2	A1-A3	7.98	12.63	21	0.70	13.26	0.95	15.6	6.32
2	3	A1-A4	8.78	14.02	24	0.70	18.91	0.74	14.4	6.61
3	4	A1-A5	9.61	15.36	24	0.80	20.20	0.76	14.4	7.11
4	5	A1-A5	9.61	15.36	24	1.00	22.65	0.68	13.2	7.75
6	5	A7	2.10	3.88	15	0.50	4.58	0.85	10.0	4.24
7	6	A7	2.10	3.95	15	0.50	4.57	0.86	10.6	4.25
5	Outfall	A1-A7	13.87	22.60	30	0.75	35.44	0.64	15.7	7.70
8	9	-	-	0.00	12	1.00	3.57	0.00	0.0	0.00
9	EX 9	A8	2.06	3.83	15	1.10	6.78	0.57	7.9	5.78
10	EX 9	-	-	0.00	12	1.85	4.85	0.00	0.0	0.00
EX 9	EX 1	A8-A9	7.54	13.83	24	0.88	18.59	0.74	15.1	6.57
EX 1	Outfall	A8-A10	12.34	22.55	30	0.50	29.00	0.78	19.4	6.53



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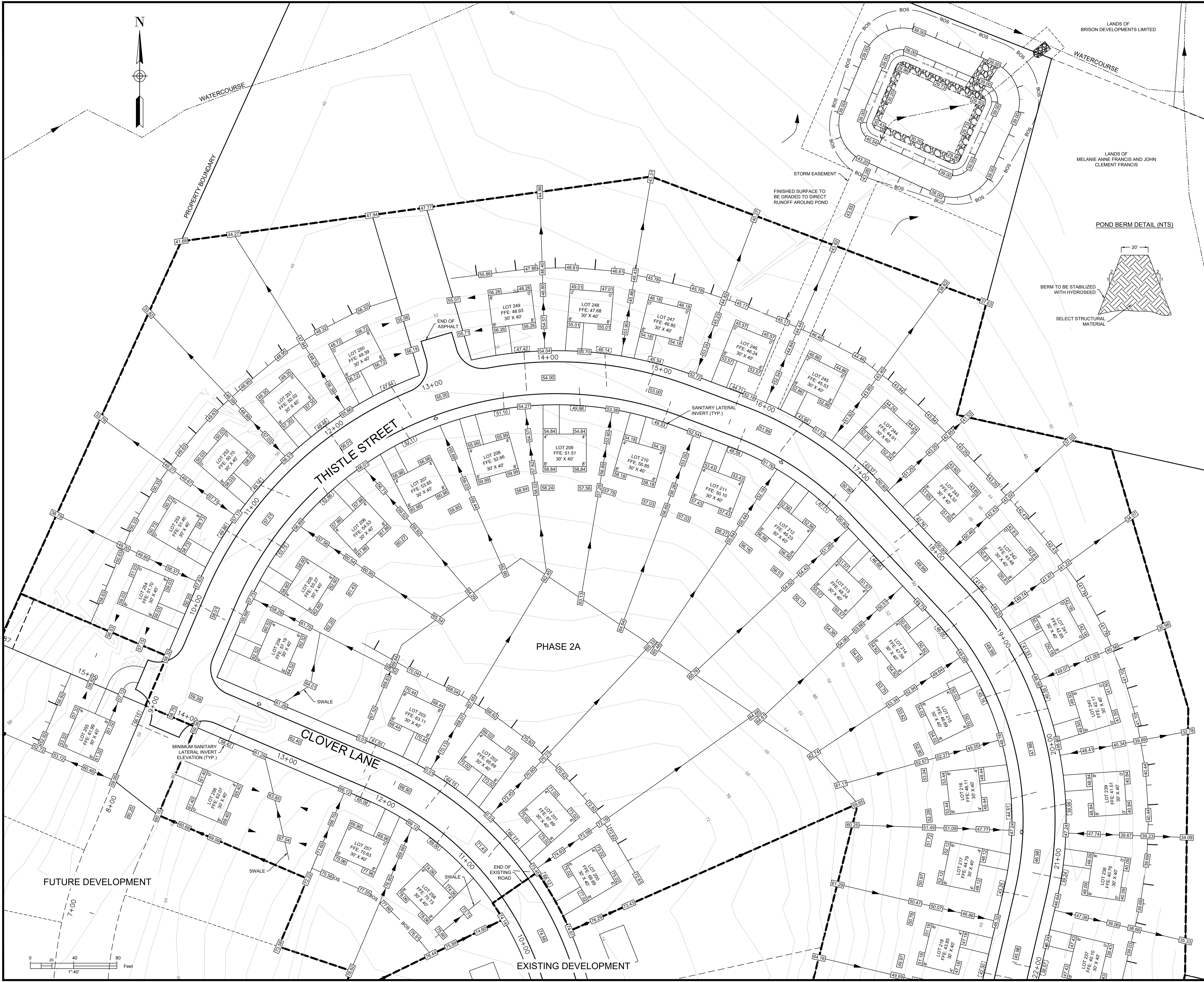
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

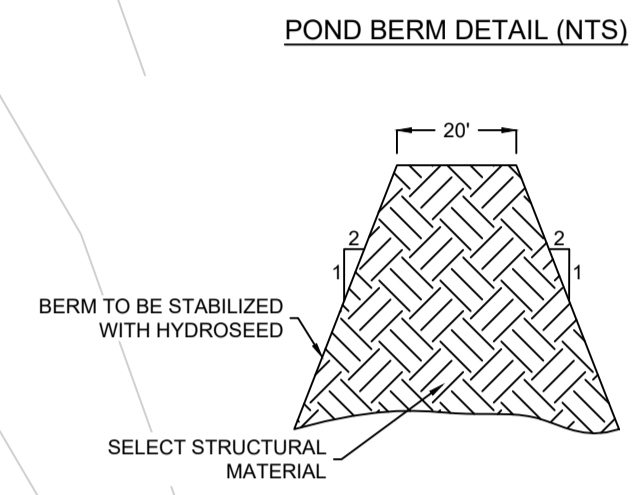
**STORM DRAINAGE /  
ENVIRONMENTAL  
PROTECTION PLAN**

Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	7 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	1"=100' H	14-033CBase.dwg	



LEGEND	
CONTOUR	— 38
CURB	—
PROPERTY LINE WITH FLOW ARROW	→
TOP OF SLOPE	—
BOTTOM OF SLOPE	— BOS —
UTILITY POLE	● FIRE HYDRANT
FINISHED GRADE	42.00 SANITARY LATERAL INVERT 42.00

- NOTES:
1. CONTOURS BASED ON TOPOGRAPHIC SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTOUR INTERVAL = 2FT.
  2. MINIMUM LOT GRADE TO BE 2%.
  3. MAXIMUM LOT GRADE TO BE 3:1.
  4. INDIVIDUAL LOT GRADING DESIGN TO BE COMPLETED PRIOR TO HOUSE CONSTRUCTION BASED ON AS BUILT CONDITIONS.
  5. FLOOR ELEVATIONS TO BE CONFIRMED AS PART OF INDIVIDUAL LOT GRADING DESIGN BASED ON AS BUILT LATERAL LOCATIONS.
  6. FOUNDATION DRAIN INVERT ELEVATIONS AT BUILDING TO BE A MINIMUM OF 1" BELOW FFE.
  7. FOUNDATION DRAIN INVERT ELEVATIONS TO BE MINIMUM 2' ABOVE THE STORM MAIN CROWN AT THE POINT OF CONNECTION.



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PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 1**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 8 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H	Filename 14-033CBase.dwg	



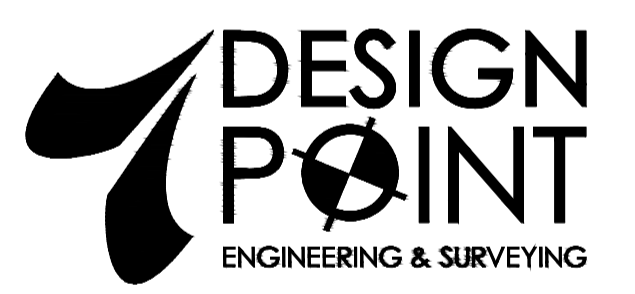
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CONTOUR	— 38 —		
CURB	———		
PROPERTY LINE WITH FLOW ARROW	———▶		
TOP OF SLOPE	———		
BOTTOM OF SLOPE	— BOS	— BOS	
UTILITY POLE	●	FIRE HYDRANT	⊛
FINISHED GRADE	42.00	SANITARY LATERAL INVERT	42.00

- NOTES:
1. CONTOURS BASED ON TOPOGRAPHIC SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTOUR INTERVAL = 2FT.
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  6. FOUNDATION DRAIN INVERT ELEVATIONS AT BUILDING TO BE 1' BELOW FFE.
  7. FOUNDATION DRAIN INVERT ELEVATIONS TO BE MINIMUM 2' ABOVE THE STORM MAIN CROWN AT THE POINT OF CONNECTION.

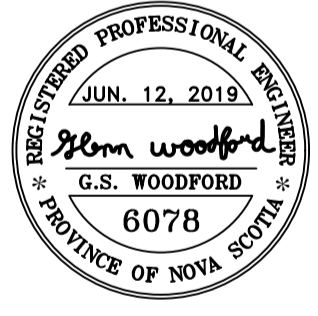
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CONSULTANT



**DESIGN POINT**  
ENGINEERING & SURVEYING



CLIENT



**BRISON DEVELOPMENTS**

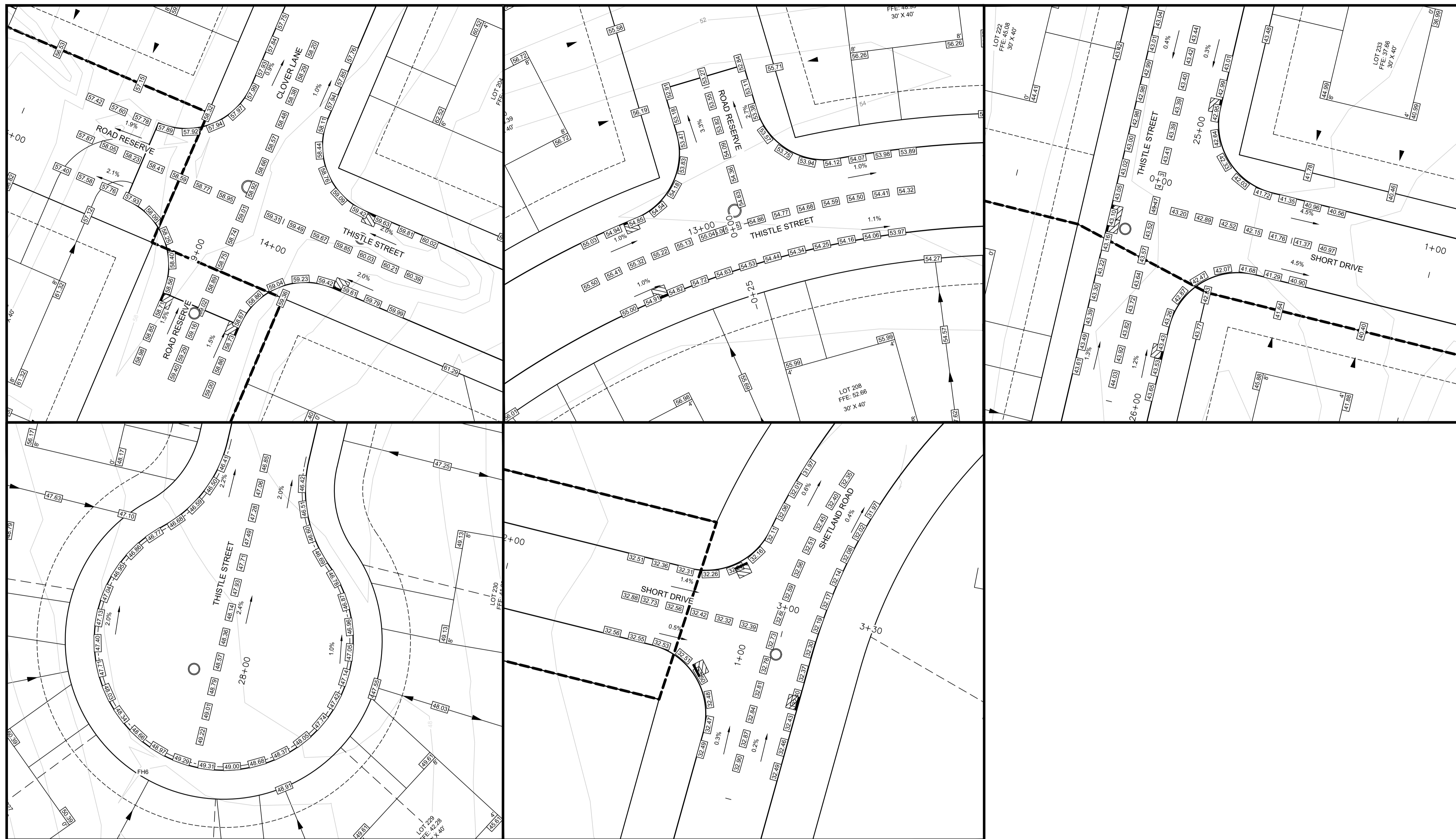
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 2**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 9 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H	Filename 14-033CBase.dwg	

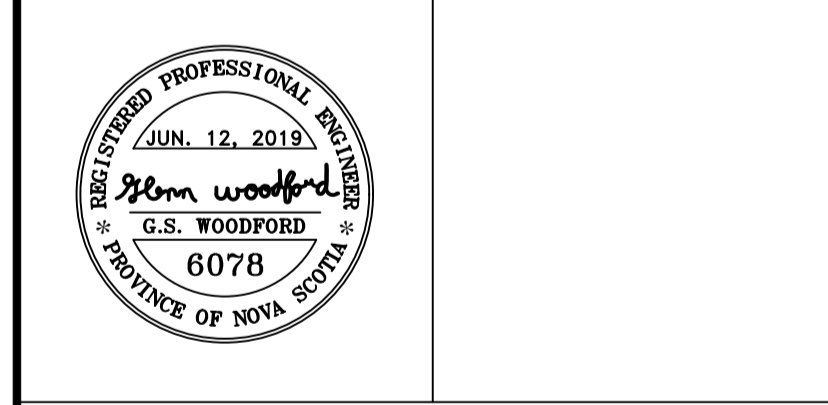
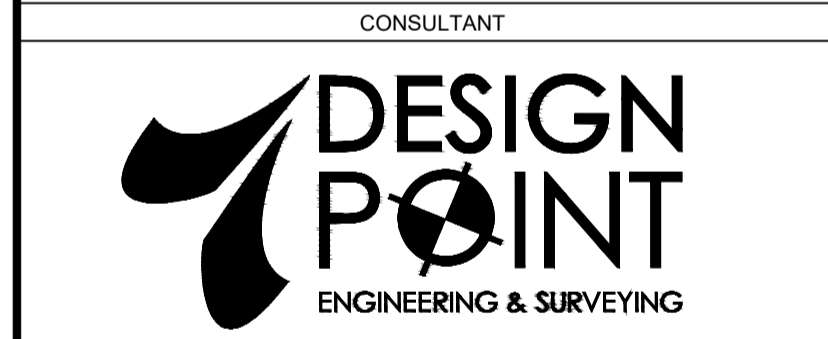


LEGEND	
CONTOUR	— 38 —
CURB	———
PROPERTY LINE WITH FLOW ARROW	———▶
TOP OF SLOPE	———▲
BOTTOM OF SLOPE	———▼
UTILITY POLE	● FIRE HYDRANT
FINISHED GRADE	□ SANITARY LATERAL
	○ INVERT

- NOTES:
1. CONTOURS BASED ON TOPOGRAPHIC SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTOUR INTERVAL = 2FT.
  2. MINIMUM LOT GRADE TO BE 2%.
  3. MAXIMUM LOT GRADE TO BE 3.1%.
  4. INDIVIDUAL LOT GRADING DESIGN TO BE COMPLETED PRIOR TO HOUSE CONSTRUCTION BASED ON AS BUILT CONDITIONS.
  5. FLOOR ELEVATIONS TO BE CONFIRMED AS PART OF INDIVIDUAL LOT GRADING DESIGN BASED ON AS BUILT LATERAL LOCATIONS.
  6. FOUNDATION DRAIN INVERT ELEVATIONS AT BUILDING TO BE A MINIMUM OF 1" BELOW FFE.
  7. FOUNDATION DRAIN INVERT ELEVATIONS TO BE MINIMUM 2' ABOVE THE STORM MAIN CROWN AT THE POINT OF CONNECTION.

ISSUED FOR REVIEW  
NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
3	JUN. 12, 2019	REVISED AS PER MDWH COMMENTS
2	NOV. 04, 2015	REVISED AS PER MDWH COMMENTS
1	MAR. 27, 2015	ISSUED FOR REGULATORY REVIEW



PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

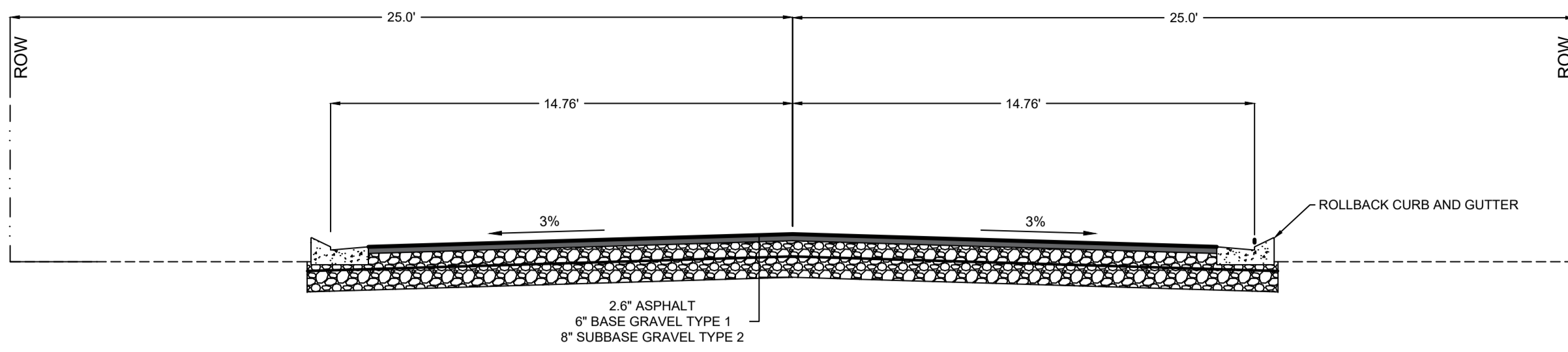
SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 3**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. <b>10 of 11</b>
Date of 1st Issue MAR. 27, 2015	Scale 1"=20' H	Filename 14-033CBase.dwg	

TYPICAL ROAD CROSS SECTION

A  
11

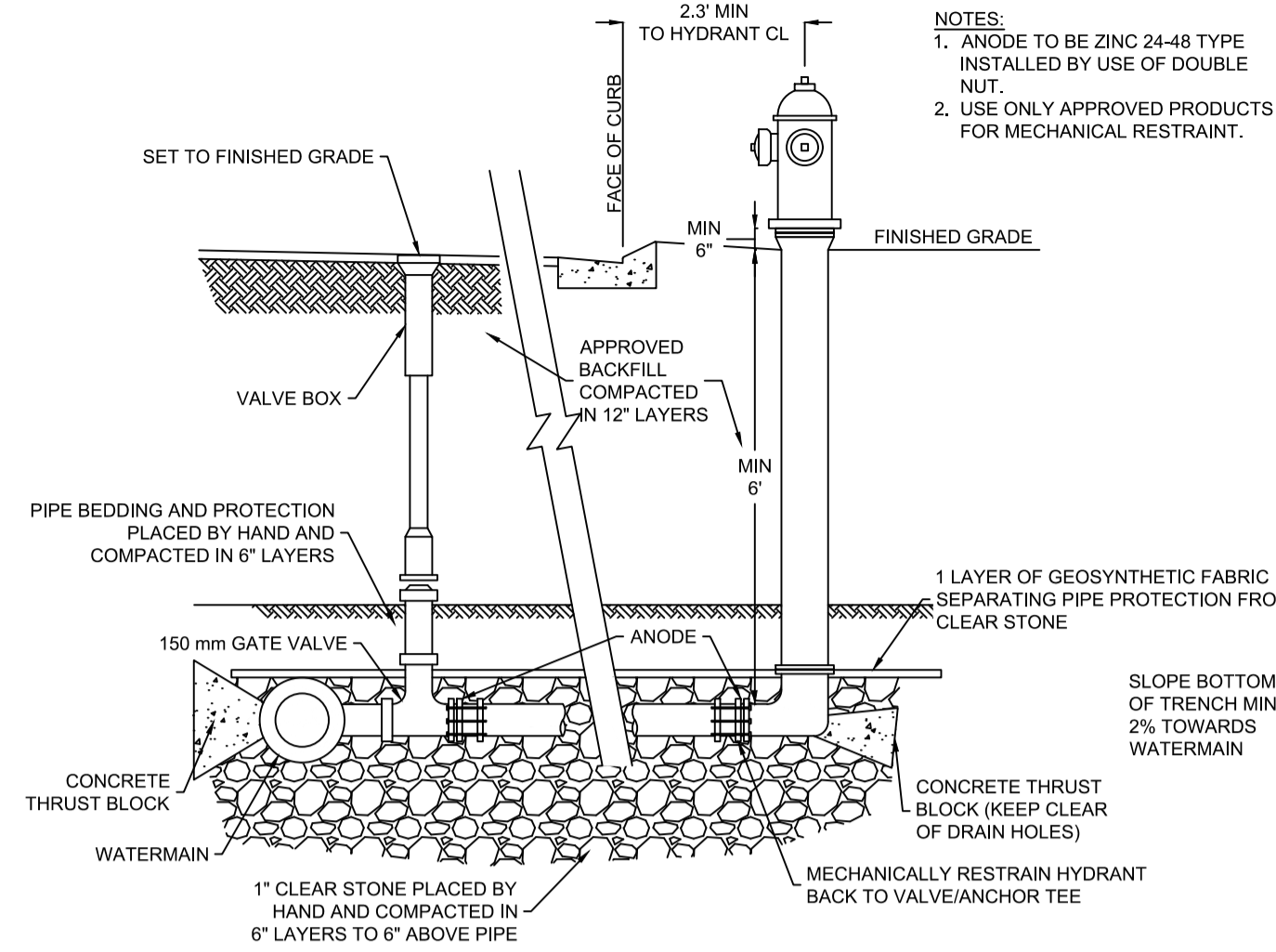


GENERAL CONSTRUCTION NOTES:

- SAFETY IS PARAMOUNT AND THE CONTRACTOR MUST USE SAFE WORK PRACTICES IN ACCORDANCE WITH THE NOVA SCOTIA OCCUPATIONAL HEALTH AND SAFETY ACT.
- MDWH'S MUNICIPAL SERVICES SPECIFICATION MANUAL SHALL FORM PART OF THE DESIGN AND SHALL BE ADHERED TO AND THE CONTRACTOR SHALL HAVE A COPY OF THE MANUAL ON SITE DURING CONSTRUCTION.
- ALL WORKS TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR MUNICIPAL SERVICES" PREPARED JOINTLY BY THE NOVA SCOTIA ROADBUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA (CURRENT EDITION).
- ALL WORKS TO BE IN ACCORDANCE WITH REQUIREMENTS OF ALL PERMITS AND REGULATIONS AS ISSUED BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- CONTRACTOR TO NOTIFY DESIGNPOINT AND THE MUNICIPALITY OF THE DISTRICT OF WEST HANTS REGARDING CONSTRUCTION SCHEDULING PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILT LADEN RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURES MAY BE OBTAINED FROM 'EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES' (CURRENT EDITION), BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- ALL DISTURBED AREAS NOT STABILIZED BY GRAVEL, ASPHALT, CONCRETE, OR SOD ARE TO BE STABILIZED WITH HYDROSEED AND HAY. HYDROSEED AREAS THAT DO NOT SHOW ACTIVE GROWTH WITHIN THE FIRST GROWING SEASON TO BE RE-STABILIZED.
- MATERIALS SHALL NOT BE SUBSTITUTED UNLESS PRIOR APPROVAL IS PROVIDED BY THE ENGINEER.
- SHOP DRAWINGS TO BE PROVIDED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS AND TO COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
- LOCATIONS OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING INFRASTRUCTURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR TO ALLOW A 1 WEEK REVIEW PERIOD BY THE ENGINEER.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SUCH AS NOVA SCOTIA POWER, BELL ALIANT, EASTLINK, AND THE MUNICIPALITY. CONTRACTOR TO COORDINATE ALL WORK WITH THE NECESSARY UTILITIES.
- PERMISSION FROM LANDOWNER(S) REQUIRED TO WORK ON PRIVATE PROPERTY.
- ALL ELEVATIONS ARE IMPERIAL AND GEODETIC. TOPOGRAPHICAL SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTRACTOR TO CONTACT DESIGNPOINT FOR CONSTRUCTION LAYOUT CONTROL INFORMATION 2 WEEKS PRIOR TO CONSTRUCTION.
- ALL EARTHWORK, TRENCH WORK, PIPE BEDDING, AND SURFACE TREATMENT TO BE REVIEWED AND CERTIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- DRAWINGS SUBJECT TO CONSTRUCTION APPROVAL BY THE APPLICABLE APPROVAL AGENCIES (i.e. THE MUNICIPALITY AND NOVA SCOTIA DEPARTMENT OF ENVIRONMENT) PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES REQUIRED FOR THE PROJECT.
- INSULATION TO BE 50 mm THICK HI40 RIGID STYROFOAM (ROAD AND TRAFFIC RATED).
- CONTRACTOR MAY REQUEST GRADE ADJUSTMENTS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER AND APPLICABLE APPROVAL AGENCIES. CONTRACTOR RESPONSIBLE FOR COSTS ASSOCIATED WITH DRAWING REVISIONS AND APPROVALS.
- CATCHBASINS TO BE 42" Ø PRECAST CONCRETE. WATER MAIN TO BE PVC DR18 AND SANITARY MAIN TO BE PVC DR35. STORM TO BE PVC DR35 (8" - 15") AND REINFORCED CONCRETE TO CSA A257.2 (18" AND LARGER).
- ALL STORM AND SANITARY SERVICE LATERALS TO HAVE A MINIMUM SLOPE OF 2%.
- ALL MANHOLE FRAMES AND COVERS ARE TO BE IMP TYPE R60 (IMP R12 FOR PARKS AND EASEMENTS) AND WILL INCLUDE A 2" RISER AS MANUFACTURED BY IMP.

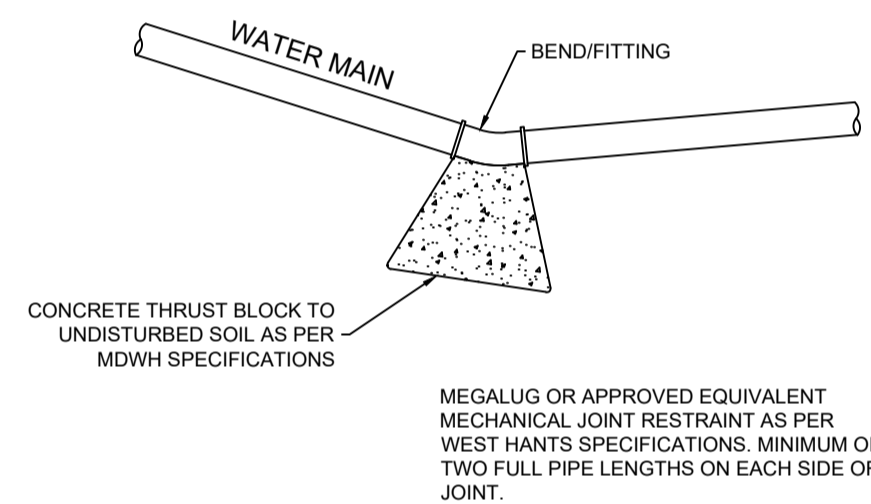
STANDARD HYDRANT INSTALLATION

B  
11



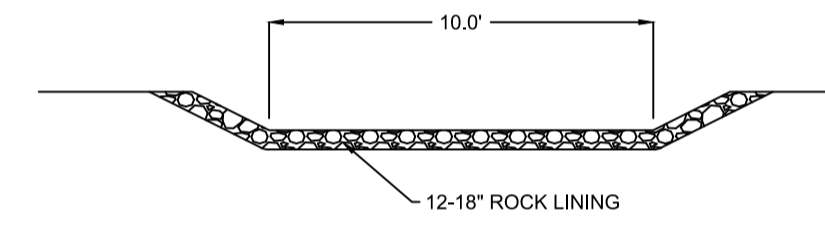
THRUST BLOCK DETAIL (NTS)

C  
11



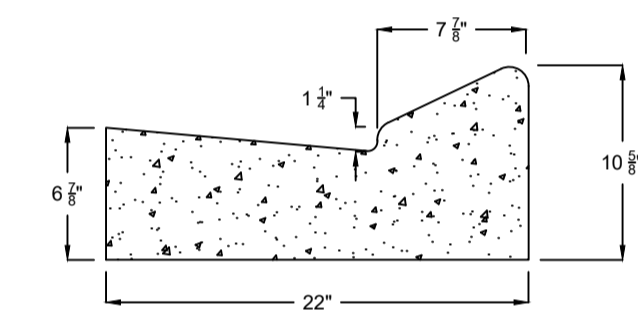
STORMWATER POND EMERGENCY OVERFLOW DETAIL (NTS)

D  
11



ROLLBACK CURB AND GUTTER DETAIL (NTS)

G  
11

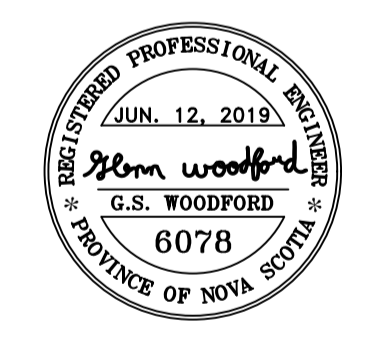
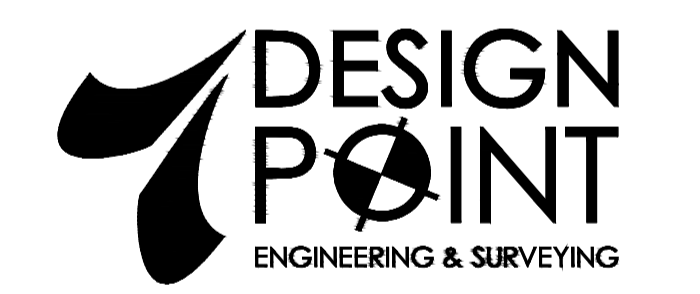


NOTE:  
CURB AND GUTTER SHALL BE PLACED ON AN APPROVED GRANULAR BASE HAVING A MINIMUM DEPTH OF 6"

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CONSULTANT



CLIENT



PROJECT DESCRIPTION

THE MEADOWS  
PHASE 2  
FALMOUTH, NOVA SCOTIA

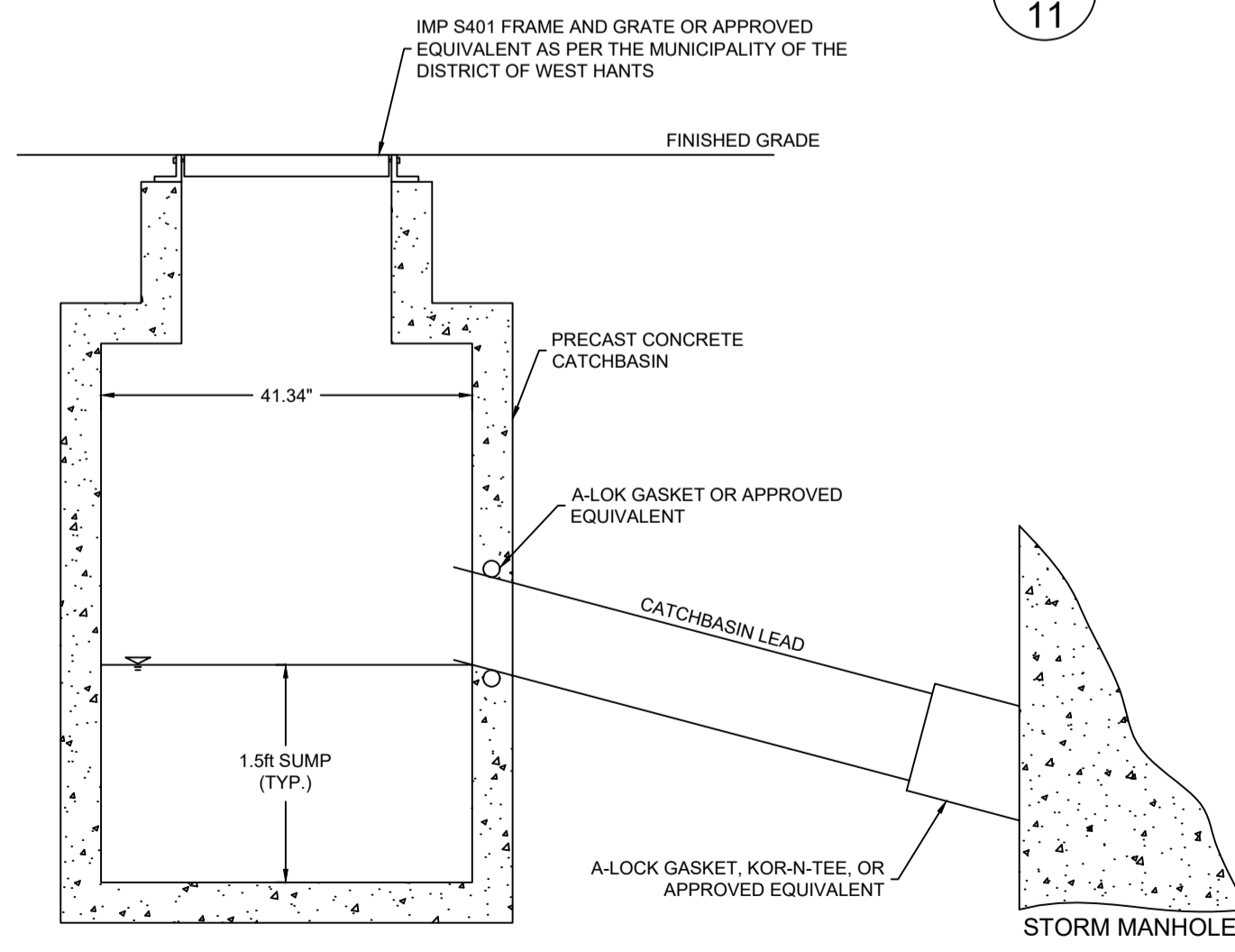
SHEET DESCRIPTION

CONSTRUCTION NOTES  
AND DETAILS

Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	11 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	NTS	14-033CBase.dwg	

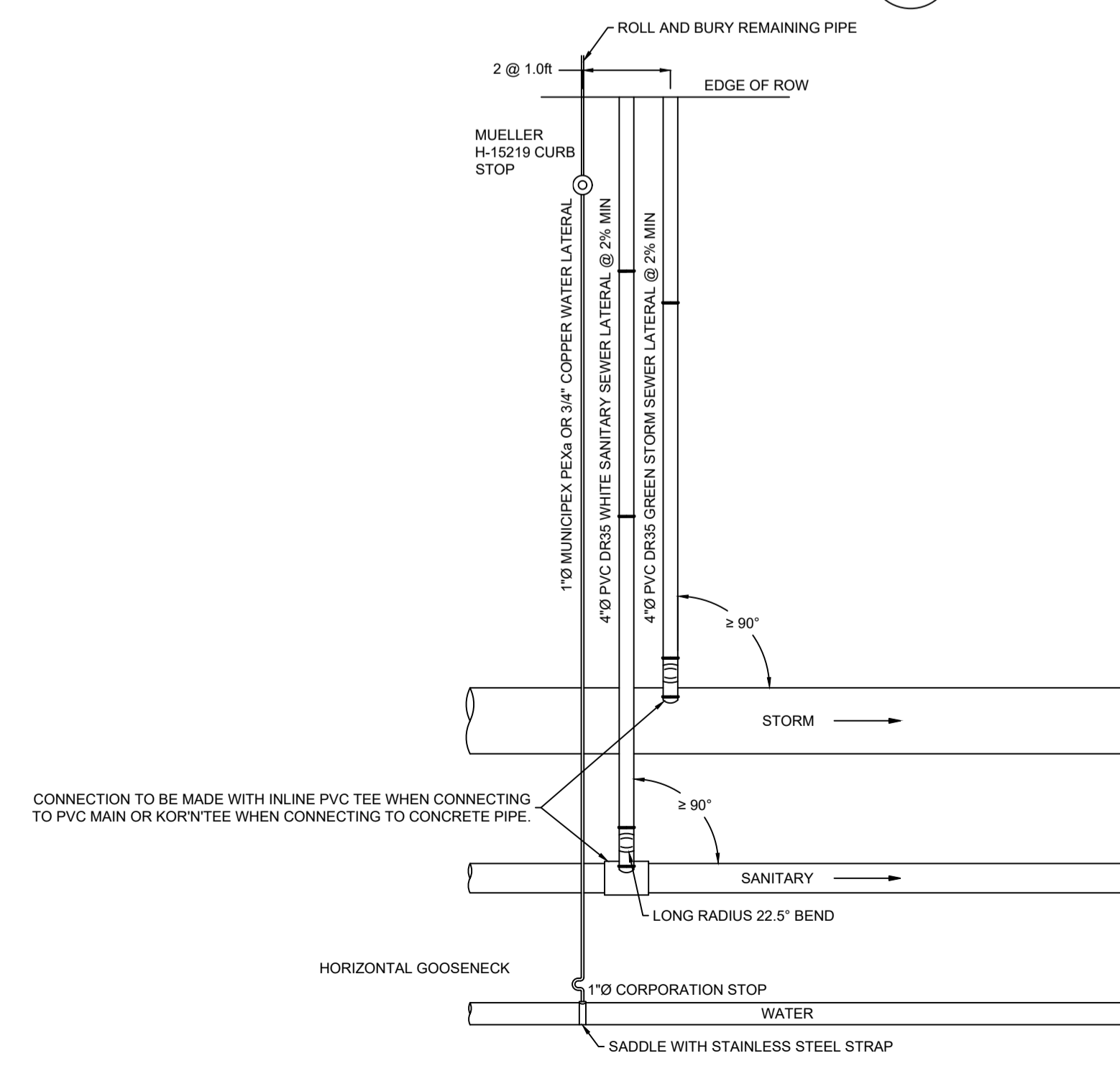
TYPICAL CATCHBASIN DETAIL (NTS)

E  
11



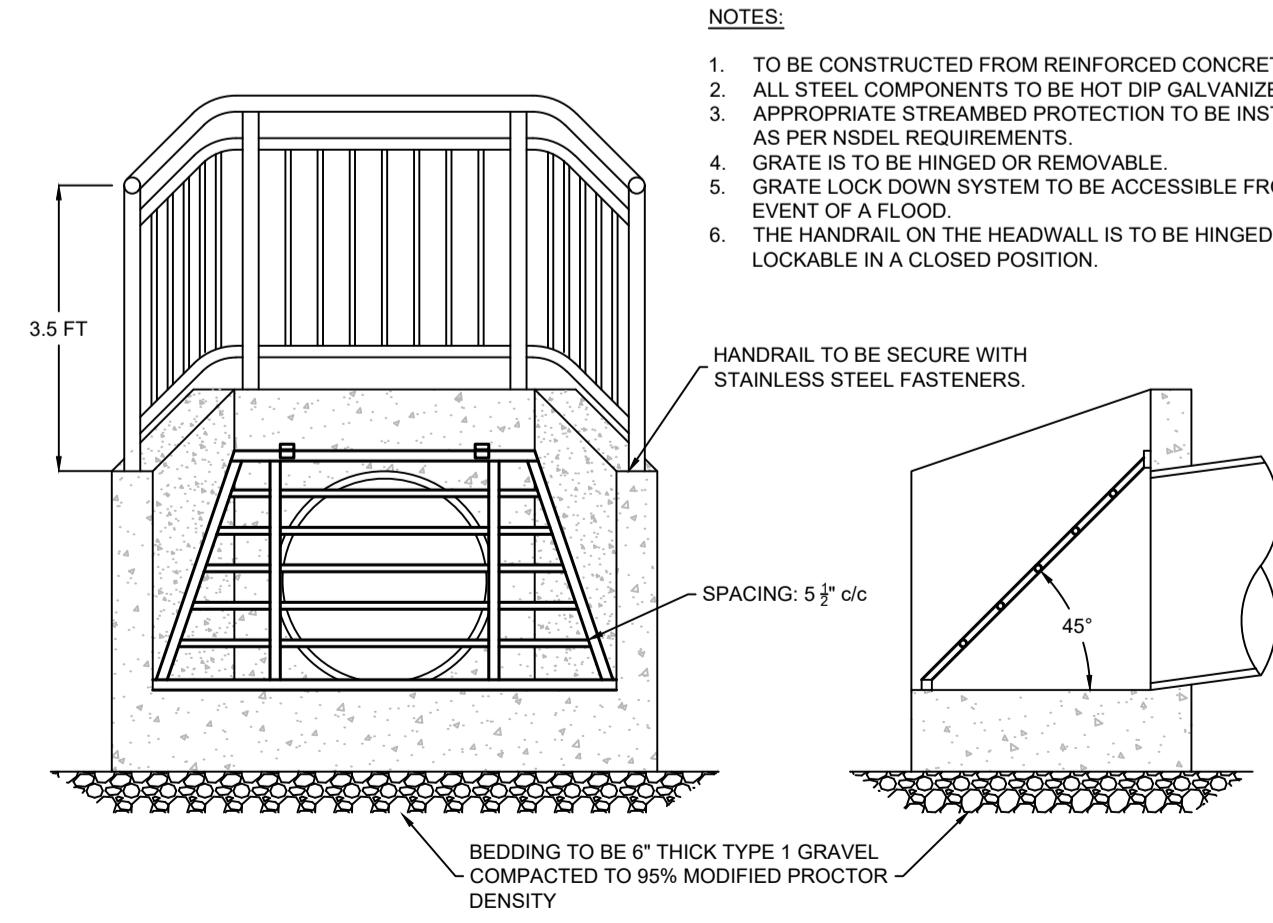
SERVICE LATERAL DETAIL (NTS)  
SEE MDWH DETAIL #10

F  
11



STORM OUTFALL DETAIL (NTS)

F  
11



- NOTES:
- TO BE CONSTRUCTED FROM REINFORCED CONCRETE.
  - ALL STEEL COMPONENTS TO BE HOT DIP GALVANIZED AFTER FABRICATION.
  - APPROPRIATE STREAMBED PROTECTION TO BE INSTALLED DOWNSTREAM AS PER NSDEL REQUIREMENTS.
  - GRATE IS TO BE HINGED OR REMOVABLE.
  - GRATE LOCK DOWN SYSTEM TO BE ACCESSIBLE FROM DRY LAND IN THE EVENT OF A FLOOD.
  - THE HANDRAIL ON THE HEADWALL IS TO BE HINGED OR REMOVABLE, AND LOCKABLE IN A CLOSED POSITION.

April 1, 2020

**Brisson Developments**

411 Gabriel Road  
Falmouth, Nova Scotia B0P 1L0  
Attention: Mitch Brisson

**RE: The Meadows Phase 2 – Storm Drainage System**

DesignPoint Project #: 14-033


Further to our discussion, I understand that you are interested in changing the large 75 ft wide R1 lots to semi-detached, townhomes, or small R1 lots. The changes apply to The Meadows Phase 2 including Thistle Street, the extension of Clover Lane, and Short Drive.

The storm drainage system as designed in my latest drawing package for this project (dated June 12, 2019, Rev 3) is adequate to accommodate these changes to the development.

For reference, please refer to the Storm Drainage / Environmental Protection Plan, Sheet 7 of 11, Revision 3, dated June 12, 2019 (included with this letter).

If you have any questions, please feel free to contact me.

Thank you,  
**DesignPoint Engineering & Surveying Ltd.**

A handwritten signature in blue ink that reads "Glenn Woodford".

Glenn Woodford, P.Eng.  
Senior Engineer & Principal

GSW/alc

Enclosures: Storm Drainage / Environmental Protection Plan

**GENERAL EROSION AND SEDIMENT CONTROL NOTES**

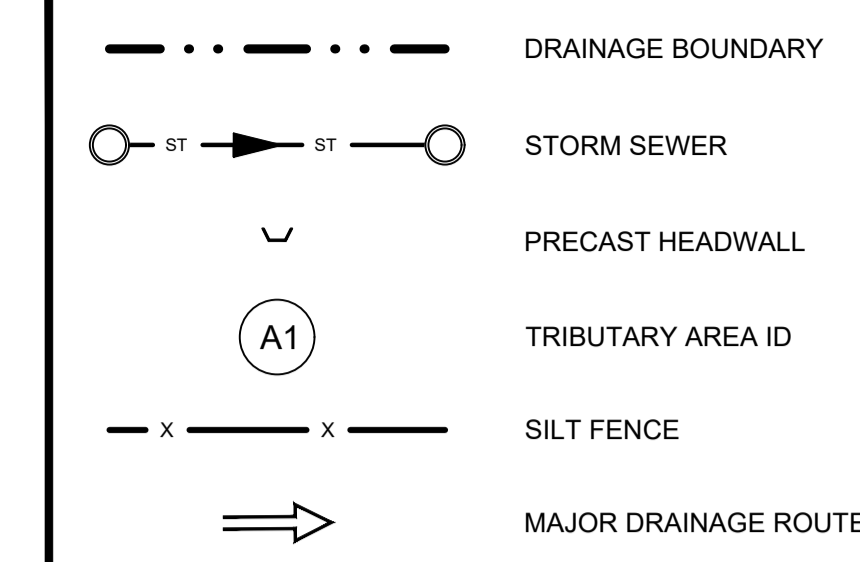
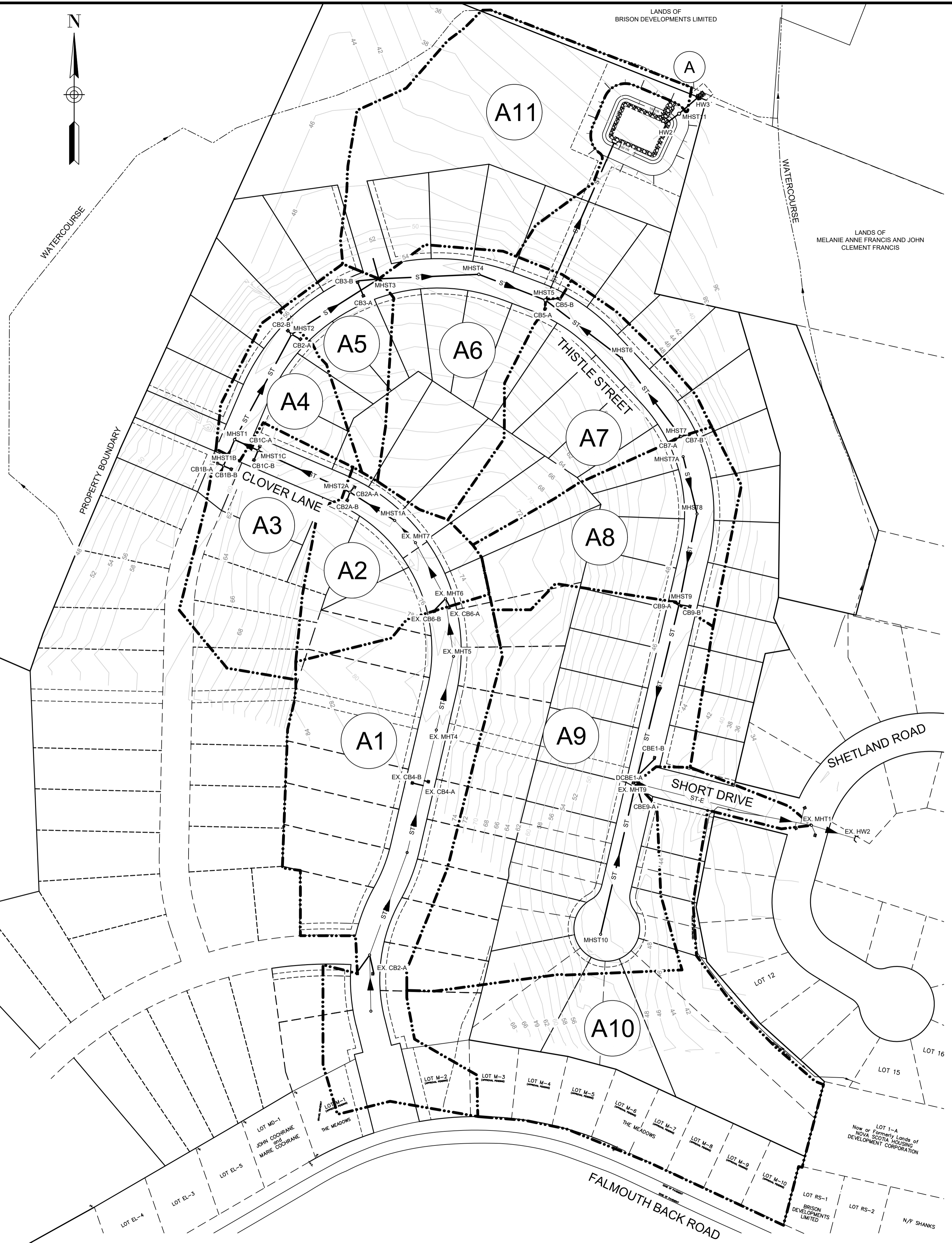
1. EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
2. ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF ENVIRONMENT REQUIREMENTS.
3. CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
4. CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
5. CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS ([https://weather.gc.ca/canada\\_e.html](https://weather.gc.ca/canada_e.html)).
6. CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
7. TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
8. CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
9. CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
10. EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
11. CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
12. SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
13. SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
14. UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
15. TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
16. ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
17. VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
18. STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.)
19. SITE ACTIVITY TO ADHERE TO REQUIREMENTS OF HALIFAX REGIONAL MUNICIPALITY TOPSOIL BY-LAW.
20. ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
21. SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.



Catchment	Area (ac) ±	Catchment	Area (ac) ±
A1	4.75	A7	2.10
A2	1.47	A8	2.06
A3	1.75	A9	5.48
A4	0.81	A10	4.80
A5	0.83	A11	3.66
A6	2.16	Total	29.87

Storm	Flow to Point A (cfs)	
	Pre-Development	Post-Development
5 Year	6.20	5.87
10 Year	9.49	7.59
25 Year	14.7	11.72
50 Year	18.66	15.18
100 Year	22.84	18.95

Upstream MH	Downstream MH	Tributary Area	Tributary Area +/- (Ac)	Qd - Design Flow (cfs)	Pipe Size (in)	Pipe Slope (%)	Qc - Pipe Capacity (cfs)	Qd/Qc	Depth of Flow (in)	Max. Velocity (ft/s)
EX 7	1A	A1	4.75	7.55	18	1.50	12.89	0.59	9.8	7.60
1A	2A	A1	4.75	7.58	18	3.25	18.92	0.40	7.8	10.13
2A	1	A1-A2	6.23	10.29	18	4.95	23.38	0.44	8.3	12.81
1	2	A1-A3	7.98	12.63	21	0.70	13.26	0.95	15.6	6.32
2	3	A1-A4	8.78	14.02	24	0.70	18.91	0.74	14.4	6.61
3	4	A1-A5	9.61	15.36	24	0.80	20.20	0.76	14.4	7.11
4	5	A1-A5	9.61	15.36	24	1.00	22.65	0.68	13.2	7.75
6	5	A7	2.10	3.88	15	0.50	4.58	0.85	10.0	4.24
7	6	A7	2.10	3.95	15	0.50	4.57	0.86	10.6	4.25
5	Outfall	A1-A7	13.87	22.60	30	0.75	35.44	0.64	15.7	7.70
8	9	-	-	0.00	12	1.00	3.57	0.00	0.0	0.00
9	EX 9	A8	2.06	3.83	15	1.10	6.78	0.57	7.9	5.78
10	EX 9	-	-	0.00	12	1.85	4.85	0.00	0.0	0.00
EX 9	EX 1	A8-A9	7.54	13.83	24	0.88	18.59	0.74	15.1	6.57
EX 1	Outfall	A8-A10	12.34	22.55	30	0.50	29.00	0.78	19.4	6.53



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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER  
JUN. 12, 2019  
*Glen Woodford*  
G.S. WOODFORD  
6078  
PROVINCE OF NOVA SCOTIA

CLIENT

PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**STORM DRAINAGE /  
ENVIRONMENTAL  
PROTECTION PLAN**

Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	7 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	1"=100' H	14-033CBase.dwg	



**WHEREAS** Policy 5.4.4 of the Municipal Planning Strategy; and Section 6.1 (d) of the Land Use By-law enables Council to consider new comprehensively designed multiple residential developments in the Falmouth Growth Centre by development agreement; and

**WHEREAS** the Council of the Municipality, at a meeting held on **Date**, approved this request and adopted this Agreement by policy subject to the execution of this development agreement by the parties hereto;

**NOW THEREFORE THIS AGREEMENT WITNESSETH** that in consideration of the mutual covenants and agreements herein contained, the parties agree as follows:

## **PART 1 AGREEMENT CONTEXT**

### **1.1 Definitions**

In this Agreement, all words or phrases used shall carry their customary meaning unless otherwise set out in the Land Use By-law, except those defined as follows:

“Municipal Engineer” means the engineer of the West Hants Regional Municipality and includes a person acting under the supervision and direction of the engineer.

“Two-unit Dwelling” means a completely detached building containing only two (2) dwelling units.

### **1.2 Schedules**

The following attached schedules shall form part of this Agreement:

- Schedule A - Legal Description
- Schedule B – Concept Plan
- Schedule C – Stormwater Management Plan

### **1.3 Municipal Planning Strategy, Land Use By-law, and Subdivision By-law**

- (a) *Municipal Planning Strategy* means the West Hants Municipal Planning Strategy, approved on May 13, 2008, as amended, or successor By-laws;
- (b) *Land Use By-law* means the West Hants Land Use By-law, approved on May 13, 2008, as amended, or successor By-laws;
- (c) *Subdivision By-law* means the West Hants Subdivision By-law, approved on May 13, 2008, as amended, or successor By-laws.

## **PART 2 DEVELOPMENT REQUIREMENTS**

### **2.1 Use**

The Parties agree that the uses on the Properties shall be limited to the following:

- (a) those uses permitted by the underlying zoning in the Land Use By-law; and
- (b) two-unit dwellings.

Except as otherwise provided in this Agreement, the provisions of the Land Use By-law and the Subdivision By-law apply to any development undertaken pursuant to this Agreement.

**2.2 Development Location and Design**

The development location and design shall conform to the following at all times:

- (a) a minimum of 30 percent of the dwellings constructed must be single unit dwellings;
- (b) maximum units per phase shall not exceed the numbers shown on the Unit Summary table on Schedule B;
- (c) the development shall be constructed using any of the lot configurations or design elements shown in Schedule B; and
- (d) the gross density of the development shall not exceed four and a half (4.5) dwelling units per acre. Where the gross density exceeds three (3) dwelling units per acre, at least 10 percent of the total area of the property shall be dedicated to the Municipality for parkland or open space purposes. This includes the 5% parkland dedication required in the Subdivision By-law. The Public Parkland outlined in the parkland agreements entered into by the Owner and the Municipality on August 22, 2011 and April 10, 2012 may be used as part of the parkland contribution requirement for this development.

**2.3 Lot and Yard Requirements**

All Single Unit dwellings shall conform to the following lot requirements:

Minimum Lot Area	6,000 ft <sup>2</sup> (557.40 m <sup>2</sup> ) 7,000 ft <sup>2</sup> (650.30 m <sup>2</sup> ) for corner lots
Minimum Lot Frontage	50 ft. (15.24 m)
Minimum Front Yard	25 ft. (7.62 m)
Minimum Flankage Yard	15 ft. (4.57 m)
Minimum Rear Yard	25 ft. (7.62 m)
Minimum Side Yard	6 ft. (1.83 m) on both sides
Maximum Height of Main Building	35 ft. (10.67 m)

All Two-unit dwellings shall be regulated under sections 9.2 and 9.3 of the Land Use By-law.

The Development Officer may grant a variance from one or more of the following subject to the requirements of the Municipal Government Act:

- (a) minimum lot area and frontage;
- (b) minimum yard dimensions;
- (c) percentage of land that may be built upon;
- (d) number of parking and loading spaces required;
- (e) height of a structure;
- (f) floor area occupied by a home-based business; and
- (g) height and area of a sign.

#### **2.4 Access and Egress**

Before a development permit can be issued for the 100th residential unit within the area of the development agreement and/or prior to the commencement of any development in Phase 3 as shown on Schedule B, a Traffic Impact Study must be submitted to the Municipality and approved by Department of Transportation and Infrastructure Renewal, and all work required by the recommendations in the Traffic Impact Study must be completed. This requirement applies only to applications for development permits made following the effective date of this development agreement.

#### **2.5 Roads and Municipal Services**

Roads and Municipal Services in the development shall conform to the following:

- (a) the layout of streets within the development shall be as generally shown on Schedule B. The Development Officer, in consultation with the Municipal Engineer, may give consideration to minor incidental changes to the street layout;
- (b) all streets and municipal services within the development shall be designed and constructed in accordance with the requirements of the Municipal Services Specifications Manual. Detailed design plans of the street networks, water and sewer servicing and storm water systems shall be approved by the Municipal Engineer for each phase of the development prior to construction commencing for that phase; and
- (c) the development of new streets not shown on Schedule B for the purpose of development shall be permitted provided all requirements of the Subdivision By-law are met.

#### **2.6 Parking**

Parking shall be provided in accordance with the requirements of section 5.31 of the Land Use By-law.

#### **2.7 Signs and Lighting**

Signage and illumination shall be regulated under sections 5.18 and 7.0 of the Land Use By-law which controls lighting, size, location, and number of signs. Exterior lighting for driveways, parking areas, signs or structures shall be shielded and

directed downward to minimize light spilling, glare or light cast over neighbouring properties or the street.

## **2.8 Maintenance**

The Owner shall keep the Properties and buildings and any portion thereof clean and in good repair. Any driveways, fences, lawns, trees, shrubs, walkways and other landscaping elements shall be regularly maintained and kept in a tidy state and free from unkempt materials or matter of any kind.

## **2.9 Storm Drainage**

The Owner shall ensure the Stormwater Management Plan, Schedule C, is implemented to ensure neighboring properties are not negatively impacted by storm drainage. The Development Officer, in consultation with the Municipal Engineer, may give consideration to minor incidental changes to the Stormwater Management Plan without requiring an amendment to this agreement.

The Owner may transfer ownership of the stormwater management system, and specifically the detention pond, to the Municipality provided all acceptance requirements in the Subdivision By-law are met. If the Owner wishes to enable alternative requirements for acceptance, the Owner may enter into a servicing agreement with the Municipality as outlined in the Subdivision By-law.

If the Owner wishes to retain ownership of the stormwater management system, and specifically the detention pond, the Owner must provide the Municipal Engineer evidence annually, or upon request of the Municipality, that the detention pond conforms to the performance expectations detailed in Schedule "C" of this agreement. All costs associated with addressing performance concerns will be at the sole expense of the owner and must be addressed by the Owner within six (6) months of notification. The Owner may be given an extension in writing by the Development Officer to complete the work for an equivalent period. Should the owner not address the concerns, the Municipality reserves the rights to make any repairs necessary and charge the Owner for the costs incurred.

## **PART 3 CHANGES AND DISCHARGE**

- 3.1** The Owner shall not vary or change the use of the Properties from that provided for in *Section 2.1 Uses* of this Agreement unless a new agreement is entered into with the Municipality or this Agreement is amended.
- 3.2** Any matters in this Agreement which are not specified in Subsection 3.3 below are not substantive matters and may be changed with the written consent of Council without a public hearing provided that Council determines that the changes do not significantly alter the overall intended effect of this Agreement.
- 3.3** The following matters are substantive matters:
  - (a) the uses permitted on the Properties as listed in *Section 2.1 Use* of this Agreement;

- (b) the location and design requirements for the Properties as listed in *Section 2.2 Development Location and Design*;
  - (c) the lot and yard requirements for the Properties as listed in *Section 2.3 Lot and Yard Requirements* of this Agreement; and
  - (d) the stormwater management plan for the Properties as described in *Section 2.9 Storm Drainage* of this Agreement.
- 3.5** Notwithstanding the foregoing, discharge of this agreement is not a substantive matter and this agreement may be discharged by Council without a public hearing.
- 3.6** Notice of Intent to Discharge this Agreement may be given by the Municipality to the Owner following a resolution of Council to give such Notice:
- (a) as provided for in *Section 4.1 Commencement of Operation* of this Agreement; or
  - (b) at the discretion of the Municipality, with or without the concurrence of the Owner, where the Development has, in the reasonable opinion of Council on advice from the Development Officer, ceased operation for a period of at least forty-eight (48) months; or
  - (c) at any time upon the written request of the Owner, provided the use of the Properties is in accordance with the Land Use By-law or a new Agreement has been entered into.
- 3.7** Council may discharge this Agreement 30 days after a Notice of Intent to Discharge has been given.

## **PART 4 IMPLEMENTATION**

### **4.1 Commencement of Operation**

- (a) The Owner may not commence any construction or use on the Properties related to this development until the Municipality has issued any development permit, building permit and/or occupancy permit that may be required.
- (b) Development as provided in Part 2 of this Agreement shall commence not later than forty-eight (48) months from the date this Agreement is signed. If, in the opinion of the Development Officer, this time limit has not been met, this Agreement may be discharged at the option of the Municipality by resolution of Council 30 days after giving Notice of Intent to Discharge to the Owner. Upon the written request of the Owner, the Municipality, by resolution of Council, may grant an extension to the date of commencement of development without such an extension being deemed to be an amendment to this Agreement.
- (c) If the Owner is bona fide delayed from commencing the development for reasons which are beyond the Owner's control, the determination of which shall be at the sole discretion of the Development Officer, then performance by the Owner is excused for the period of the delay and the time period for

the Owner to perform their obligations shall be extended by the Development Officer in writing for an equivalent period, without such an extension being deemed to be an amendment to this Agreement.

#### **4.2 Material to be Provided**

- (a) The Owner shall provide record drawings to the Development Officer for any portion of the development for which an engineered design is required within ten (10) days of completion of any work which requires the engineered design.
- (b) The Owner shall, upon written request, provide the Municipality with copies of any documentation, permits or approvals required by Provincial or Federal governments or agencies.

### **PART 5 ADMINISTRATION and COMPLIANCE**

#### **5.1 Compliance with Other By-laws and Regulations**

- (a) Nothing in this Agreement shall exempt the Owner from complying with Federal, Provincial and Municipal laws, by-laws and regulations in force or from obtaining any Federal, Provincial, or Municipal license, permission, permit, authority, or approval required thereunder.
- (b) Where the provisions of this Agreement conflict with those of any by-law of the Municipality applicable to the Properties (other than the Land Use By-law to the extent varied by this Agreement) or any statute or regulation, the higher or more stringent requirements shall prevail.

#### **5.2 Severability of Provisions**

The provisions of this Agreement are severable from one another and the invalidity or unenforceability of one provision shall not affect the validity or enforceability of any other provision.

#### **5.3 Interpretation**

- (a) Where the context requires, the singular shall include the plural and the masculine gender shall include the feminine and neutral gender.
- (b) Where the written text of this Agreement conflicts with information provided in the Schedules attached to this Agreement, the written text of this Agreement shall prevail.

#### **5.4 Municipal Responsibility**

- (a) The Municipality does not make any representations to the Owner about the suitability of the Properties for the development proposed by this agreement. The Owner assumes all risks and must ensure that any proposed development complies with this Agreement and all other laws pertaining to the Development.
- (b) Any failure of the Municipality to insist upon a strict performance of any requirements or conditions contained in this Agreement shall not be deemed a waiver of any rights or remedies that the Municipality may have and shall not

be deemed a waiver of any subsequent breach or default in the conditions or requirements contained in this Agreement.

#### **5.5 Breach of Terms or Conditions**

Upon breach of any term or condition of this Agreement, the Municipality may notify the Owners in writing. In the event that the Owners have not cured any such breach or entered into arrangements with the Municipality related to such breach to the Municipality's satisfaction, acting reasonably, within six (6) months of such notice then the Municipality may rely upon the remedies contained in Section 264 of the *Municipal Government Act* and may enter the land and perform any of the terms contained in the Development Agreement, or take such remedial action as is considered necessary to correct a breach of the Agreement, including the removal or destruction of anything that contravenes the terms of the Agreement and including decommissioning the site. It is agreed that all reasonable expenses, whether arising out of the entry on the land or from the performance of the terms, are a first lien on the land that is the subject of the Development Agreement.

#### **5.6 Costs**

The Owner shall pay all costs associated with the costs of registering this Agreement and discharging any prior agreements encumbering the Properties, and all costs associated with any amendment thereof.

#### **5.7 Development Agreement Bound to Land**

- (a) This Agreement shall be binding upon the parties hereto and their heirs, executors, administrators, successors, and assigns, and shall run with the land which is the subject of this Agreement until such time as it is discharged by the Municipality.
- (b) This Agreement replaces and discharges the Development Agreement between the Municipality of the District of West Hants and the Owner dated August 7, 2007 and recorded at the Registry of Deeds in the Province of Nova Scotia on September 27, 2007 as Document No. 88923751.

#### **5.8 Assignment of Agreement**

The Owner may, at any time and from time to time, transfer or assign this Agreement and its rights hereunder and may delegate its obligations hereunder to an assign, successor, heir, or purchaser of the land bound by this Agreement.

#### **5.9 Written Notice**

- (a) The Municipality may serve notice on the Owner personally or by ordinary mail which shall be deemed to have been received within three (3) business days of mailing, addressed to 258 King Street P.O. Box 2018 Windsor, NS, CA B0N 2T0, or at any other address provided by the Owner.
- (b) The Owner may serve notice on the Municipality by registered mail addressed to the Chief Administrative Officer, West Hants Regional Municipality, 76 Morison Drive, P.O. Box 3000, Windsor, Nova Scotia, B0N 2T0.

**5.10 Full Agreement**

This Agreement constitutes the entire Agreement and contract entered into by the Municipality and the Owner. No other agreement or representation, oral or written, shall be binding.

**IN WITNESS WHEREOF** this Agreement was properly executed by the respective parties hereto on the day and year first above written.

**SIGNED, SEALED AND DELIVERED**

In the presence of:

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness

**WEST HANTS REGIONAL MUNICIPALITY**

)  
)  
)  
) Per: \_\_\_\_\_  
) Abraham Zebian, Mayor  
)

) Per: \_\_\_\_\_  
) Rhonda Brown, Municipal Clerk  
)

\_\_\_\_\_  
Witness

) **Brisson Developments Limited**  
)  
)  
) Per: \_\_\_\_\_  
) Mitchel Brisson, President



AFFIDAVIT OF CLERK  
WEST HANTS REGIONAL MUNICIPALITY

I, Rhonda Brown of \_\_\_\_\_, Hants County, Nova Scotia make oath and swear that:

1. I am the Clerk of the West Hants Regional Municipality (The "Municipality") and I have personal knowledge of the matters to which I have sworn in this Affidavit.
2. The Municipality is a body corporate pursuant to the Municipal Government Act, S.N.S. 1988, c.18, as amended.
3. I acknowledge that the Municipality executed the attached Instrument by its proper designates duly authorized in that regard under seal on the date of this Affidavit pursuant to subsection 13(3) of the Municipal Government Act, S.N.S. 1988, c.18, as amended. This acknowledgement is made pursuant to subsection 31(a) of the Registry Act, R.S.N.S. 1989, c.392 and/or clause 79(1)(a) of the Land Registry Act, S.N.S. 2001, c.6, as amended, for the purpose of registering or recording the Instrument.
4. The Municipality is resident in Canada for the purposes of the Income Tax Act (Canada).

Sworn before me at \_\_\_\_\_, Nova Scotia,  
this \_\_\_\_\_, 2021.

\_\_\_\_\_  
A BARRISTER/COMMISSIONER OF THE  
SUPREME COURT OF NOVA SCOTIA  
Print name/affix seal

\_\_\_\_\_  
RHONDA BROWN

I CERTIFY that on this date Rhonda Brown personally came before me and swore under oath the foregoing Affidavit.

\_\_\_\_\_  
A BARRISTER/COMMISSIONER OF THE  
SUPREME COURT OF NOVA SCOTIA  
Print name/affix seal

Canada  
Province of Nova Scotia

AFFIDAVIT & PROOF OF EXECUTION (CORPORATE)

I, Mitchel Brison, Nova Scotia, make oath and say that:

1. I am Mitchel Brison of Brison Developments Limited, the "Corporation". Except as otherwise stated I have personal knowledge of the matters to which I have sworn in this Affidavit.
2. I acknowledge that I executed the foregoing instrument on behalf of the Corporation on the date of this affidavit; this acknowledgment is made for the purpose of registering such instrument pursuant to s.31(a) of the Registry Act, R.S.N.S. 1989, c.392 or ss.79 and 83 of the Land Registration Act as the case may be.
3. I verify that I have the authority to execute the foregoing instrument on behalf of the corporation and thereby bind the Corporation.
4. The Corporation is a resident of Canada under the Income Tax Act (Canada).
5. The ownership of a share or an interest in a share of the Corporation does not entitle the owner of such share or interest in such share to occupy a dwelling owned by the Corporation.

I certify that on this **Month Day**, 2021 the Deponent came before me, made oath, and swore the foregoing affidavit at \_\_\_\_\_, Nova Scotia.

Print Name:

Authority (e.g. Commissioner of Oaths):  
Please affix seal

**Schedule 'A'**  
**Legal Description – PID 45371879**

Place Name: FALMOUTH BACK ROAD FALMOUTH  
Municipality/County: MUNICIPALITY OF THE DISTRICT OF HANTS WEST/HANTS COUNTY  
Designation of Parcel on Plan: BLOCK 1-R  
Title of Plan: SURVEY PARCEL PH-2, S/D PORTION BLOCK 1, LANDS OF MEADOWS DEVELOPMENT LTD, FALMOUTH BACK RD, AYLWARD RD & SHETLAND RD (PROPOSED), FALMOUTH, APP PARCEL PH-2 & BLOCK 1-R  
Registration County: HANTS COUNTY  
Registration Number of Plan: 88595377  
Registration Date of Plan: 2007-08-16 13:49:14

SAVING and EXCEPTING Lot MD-1 as shown on registered Plan No. 91651050 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOTS M-1 to M-4, inclusive as shown on registered Plan No. 97335914 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOTS 114-121 inclusive, as shown on registered Plan No. 99835861 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 113 as shown on registered Plan No. 99835861 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 112 as shown on registered Plan No. 100545707 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 103 as shown on registered Plan No. 104799615 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 104 and LOT 105 as shown on registered Plan No. 105333000 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 109 as shown on registered Plan No. 106182976 at the Land Registration Office for Hants County.

SAVING AND EXCEPTING Lot 108 as shown on registered plan no. 107755051 recorded in the Land Registration Office for Hants County.

SAVING AND EXCEPTING Lot 106 as shown on registered plan no. 108175689 recorded in the Land Registration Office for Hants County.

SAVING and EXCEPTING Lot 107 as shown on registered Plan No. 108291684 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 110 as shown on registersred Plan No. 108314981 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 101 and LOT 102 as shown on registersred Plan No. 110487163 at the Land Registration Office for Hants County.

\*\*\* Municipal Government Act, Part IX Compliance \*\*\*

Compliance:

The parcel is created by a subdivision (details below) that has been filed under the Registry Act or registered under the Land Registration Act  
Registration District: HANTS COUNTY  
Registration Year: 2017  
Plan or Document Number: 110487163

The MGA compliance statement has been applied by SNSMR during the processing of Land Registration Plan.

#### **Legal Description – PID 45383379**

Registration County: HANTS COUNTY  
Street/Place Name: FALMOUTH DYKE ROAD /FALMOUTH  
Title of Plan: PLAN OF S/D OF LOT GE-2, LAND OF RICHARD ARNOLD ELDRIDGE, TO FORM LOT GE-2A & REMAINDER LOT GE-2B, FALMOUTH DYKE RD, FALMOUTH  
Designation of Parcel on Plan: LOT GE-2A  
Registration Number of Plan: 96299525  
Registration Date of Plan: 2010-07-07 11:26:40

#### **Legal Description – PID 45371887**

Place Name: FALMOUTH BACK ROAD FALMOUTH  
Municipality/County: MUNICIPALITY OF THE DISTRICT OF HANTS WEST/HANTS COUNTY  
Designation of Parcel on Plan: PARCEL PH-2  
Title of Plan: SURVEY PARCEL PH-2, S/D PORTION BLOCK 1, LANDS OF MEADOWS DEVELOPMENT LTD, FALMOUTH BACK RD, AYLWARD RD & SHETLAND RD (PROPOSED), FALMOUTH, APP PARCEL PH-2 & BLOCK 1-R  
Registration County: HANTS COUNTY  
Registration Number of Plan: 88595377  
Registration Date of Plan: 2007-08-16 13:49:14

SAVING and EXCEPTING LOTS M-2 to M-10, inclusive as shown on registered Plan No. 97335914 at the Land Registration Office for Hants County.

The parcel originates with an approved plan of subdivision that has been filed under the Registry Act or registered under the Land Registration Act at the Land Registration Office for the registration district of Hants as plan or document number 97335914.

The MGA compliance statement has been applied by SNSMR during the processing of the abovementioned plan 97335914.

**Legal Description – PID 45383957**

Parcel Description

Registration County: HANTS COUNTY

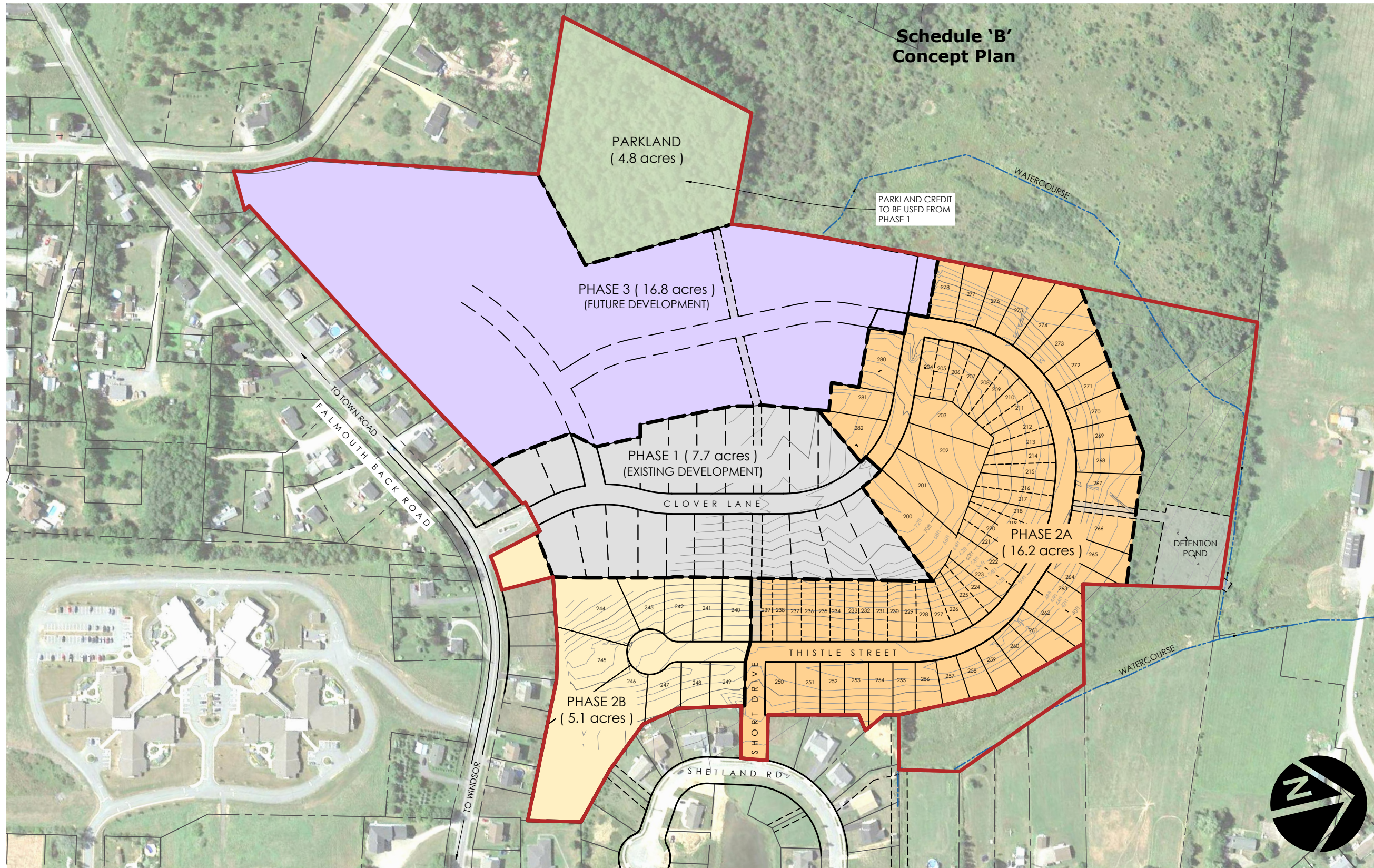
Street/Place Name: FALMOUTH BACK ROAD /FALMOUTH

Title of Plan: PLAN OF SURVEY OF LOTS M-1 TO M-10, BEING A S/D AND CONSOLIDATION OF BLOCK 1-RA & PARCEL PH-2, LANDS OF BUCKWOOD INVESTMENTS LTD & LANDS CLAIMED BY BUCKWOOD INVESTMENTS LTD, (THE OLD TOWNSHIP RD), FALMOUTH BACK RD, FALMOUTH

Designation of Parcel on Plan: LOT M-2

Registration Number of Plan: 97335914

Registration Date of Plan: 2010-12-02 13:22:33



**Schedule 'B'  
Concept Plan**

**LEGEND**

- Site Boundary
- - - Adjacent Property Boundary

**UNIT SUMMARY**

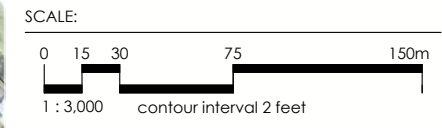
	Area (acres)	Maximum Units
Phase 2A (R1)	16.2	36
Phase 2A (R2)		36
Phase 2B (R1)	5.1	10
<b>Total</b>	<b>21.3</b>	<b>82</b>

Phase 3 up to maximum of 75 units

- SITE SUMMARY:**
- Existing Zone: Multiple Residential
  - Total Land Area: 56.7 acres

- NOTES:**
- Subject to survey. Property lines and topographic features are approximate only.
  - Site subject to by-law review and regulations.

- SOURCES:**
- Plan based on DesignPoint Site Plan file: '14-033\_Base\_20200401.dwg'

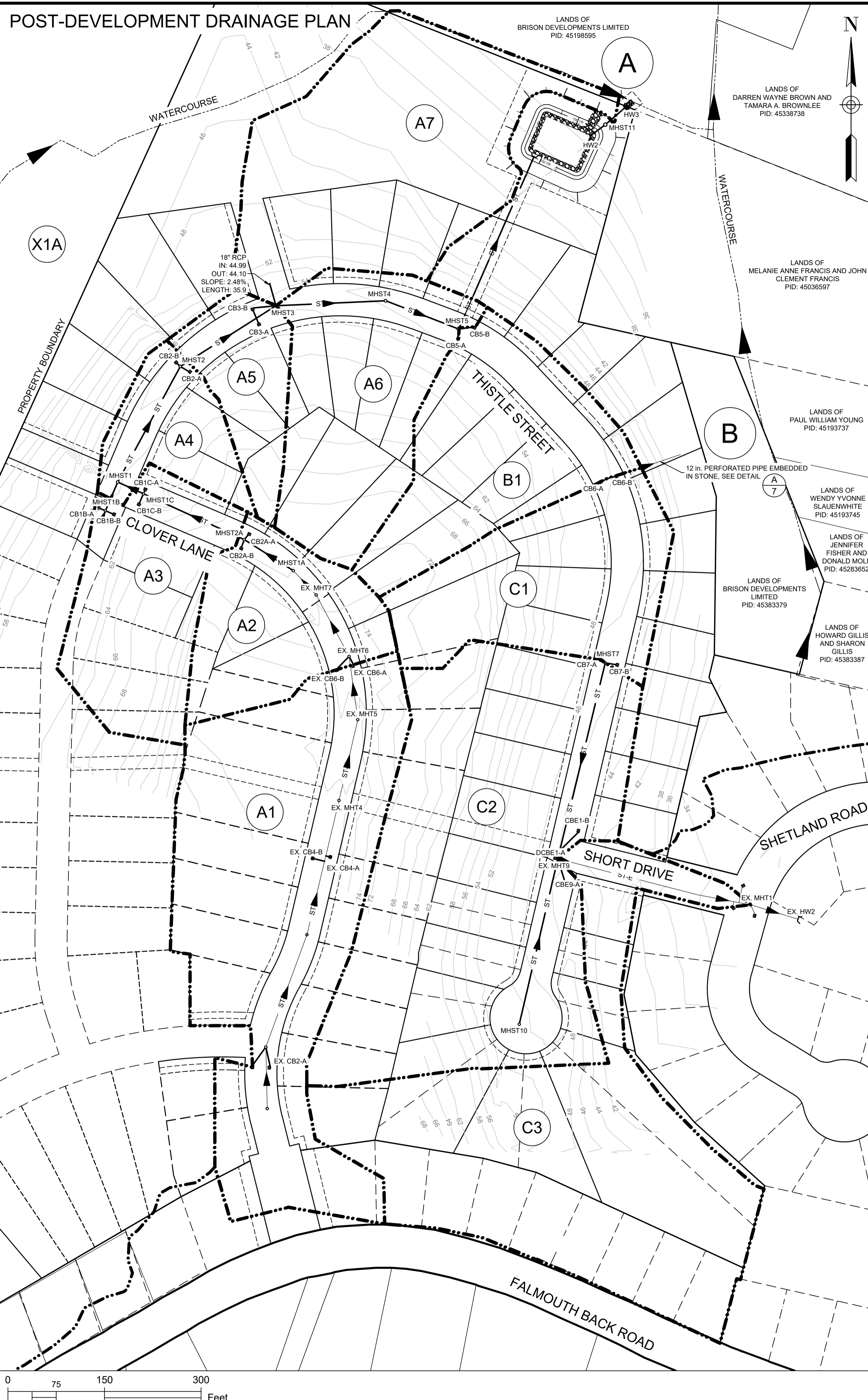


**GENERAL EROSION AND SEDIMENT CONTROL NOTES**

1. EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
2. ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA ENVIRONMENTAL REQUIREMENTS.
3. CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
4. CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY NOVA SCOTIA ENVIRONMENT.
5. CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS ([https://weather.gc.ca/canada\\_e.html](https://weather.gc.ca/canada_e.html)).
6. CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10 mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
7. TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
8. CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
9. CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
10. EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
11. CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
12. SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
13. SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
14. UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
15. TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
16. ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
17. VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
18. STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.).
19. SITE ACTIVITY TO ADHERE TO REQUIREMENTS OF HALIFAX REGIONAL MUNICIPALITY TOPSOIL BY-LAW.
20. ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
21. SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.

**Schedule 'C'  
Stormwater Management Plan**

**POST-DEVELOPMENT DRAINAGE PLAN**

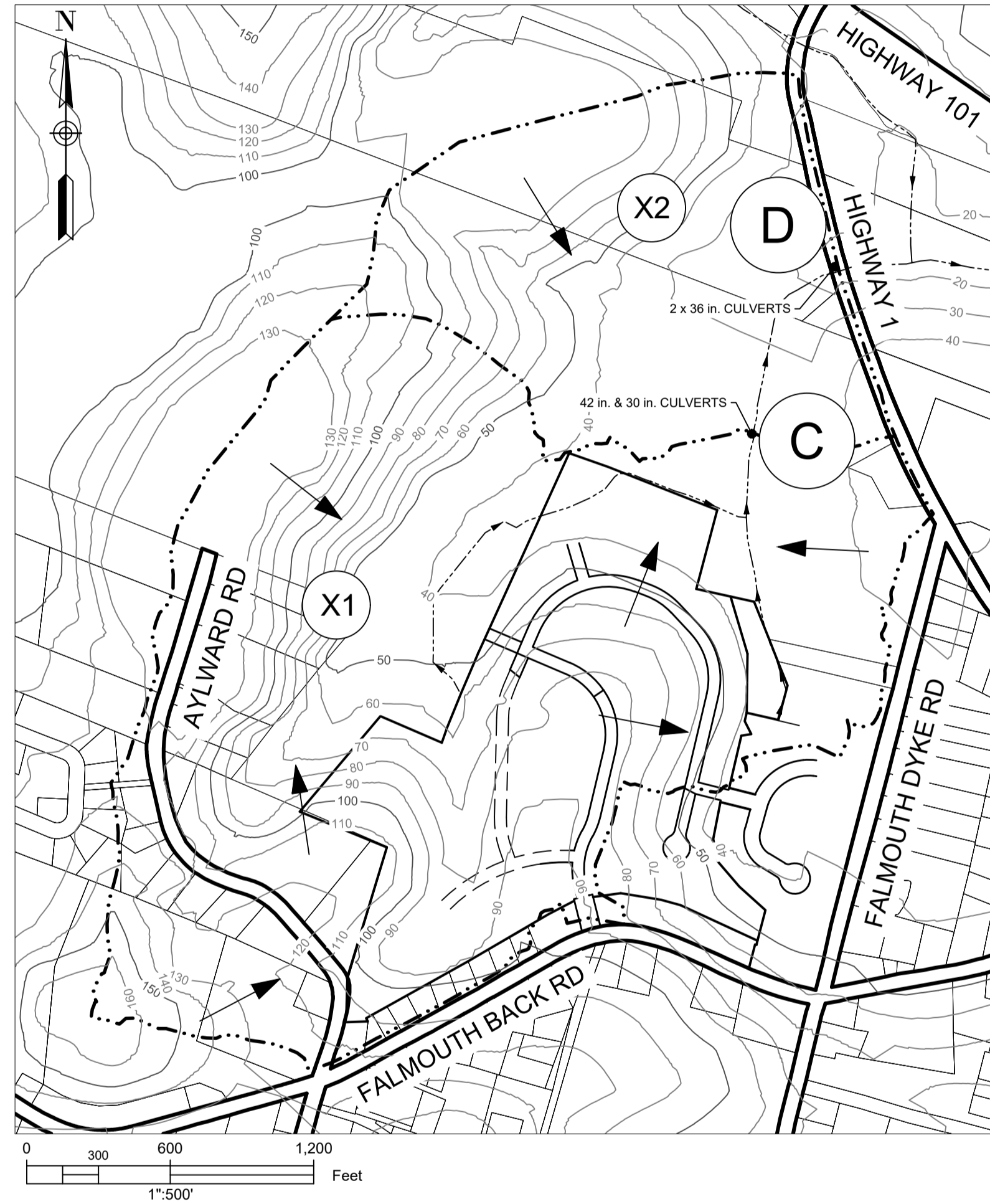


- PRE-DEVELOPMENT DRAINAGE BOUNDARY
- - - POST-DEVELOPMENT DRAINAGE BOUNDARY
- ST → ST ○ STORM SEWER
- ∩ PRECAST HEADWALL
- A1 TRIBUTARY AREA ID
- X - X - SILT FENCE
- ⇒ MAJOR DRAINAGE ROUTE

**ENVIRONMENTAL PROTECTION PLAN**



**PRE-DEVELOPMENT DRAINAGE PLAN**



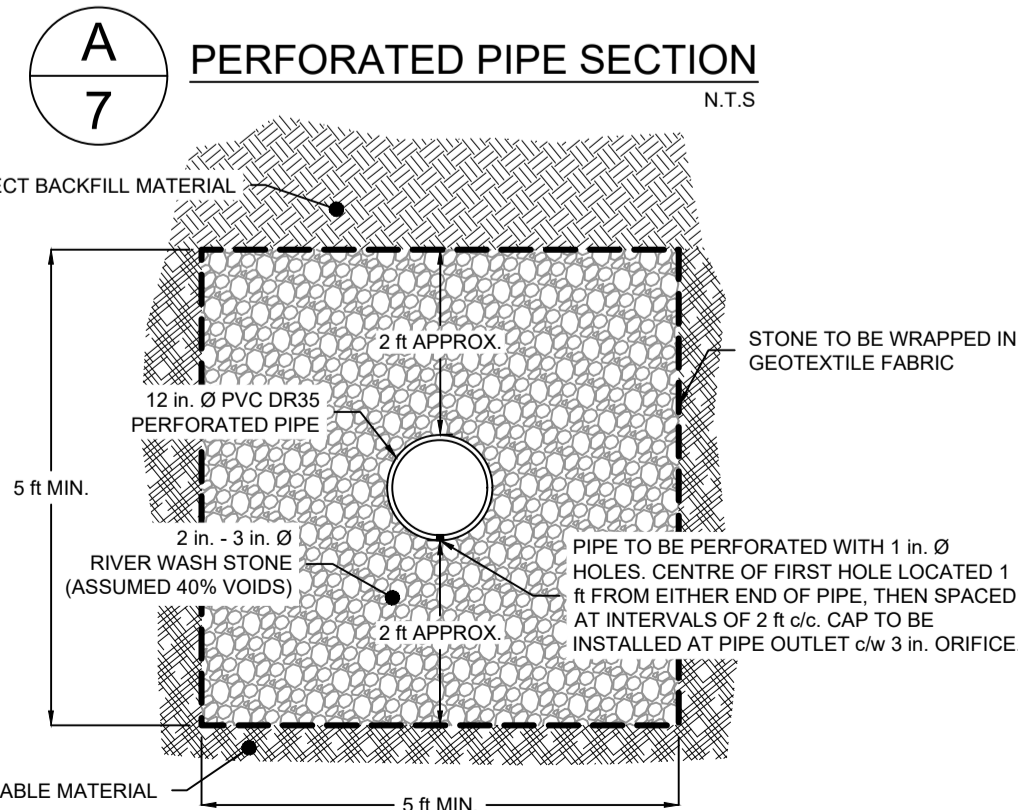
CATCHMENT	AREA (ac) ±	CN
A1	4.75	77
A2	1.47	77
A3	1.75	77
A4	0.81	77
A5	0.83	77
A6	2.16	77
B1	2.10	77
C1	2.06	77
C2	5.48	77
C3	4.80	77
X1	152.31	63
X1A	131.85	63
X2	56.23	63

FLOWS ARE BASED ON RAINFALL DATA FROM ENVIRONMENT CANADA - KENTVILLE 24 HOUR STORM.  
 • 5-YEAR: 3.36 in.  
 • 10-YEAR: 3.84 in.  
 • 25-YEAR: 4.56 in.  
 • 50-YEAR: 5.04 in.  
 • 100-YEAR: 5.52 in.

APPROXIMATE POND/WATER ELEVATIONS (ft)	
BOTTOM	30.00
TOP	37.50
5-YR	32.84
10-YR	33.64
25-YR	34.34
50-YR	34.89

STORM	FLOW TO POINT A (cfs)		FLOW TO POINT B (cfs)		FLOW TO POINT C (cfs)		FLOW TO POINT D (cfs)	
	PRE DEVELOPMENT	POST DEVELOPMENT	PRE DEVELOPMENT	POST DEVELOPMENT	PRE DEVELOPMENT	POST DEVELOPMENT	PRE DEVELOPMENT	POST DEVELOPMENT
5-YEAR	6.20	5.83	0.87	0.89	20.01	20.18	24.64	24.83
10-YEAR	9.49	7.6	1.51	0.91	32.3	31.98	39.12	39.03
25-YEAR	14.7	10.13	2.56	0.91	52.6	52	63.07	62.68
50-YEAR	18.66	12.89	3.37	0.91	68.19	67.59	81.08	80.7
100-YEAR	22.84	16.54	4.24	0.91	84.71	83.72	99.92	99.28

MINOR PIPED STORM SYSTEM DRAINAGE ANALYSIS - SCS METHOD								
UPSTREAM MH	DOWNSTREAM MH	TRIBUTARY AREA	TRIBUTARY AREA (ac)	Qd - DESIGN FLOW (cfs)	PIPE SIZE (in.)	PIPE SLOPE (%)	Qc - PIPE CAPACITY (cfs)	Qd/Qc
EX. 7	1A	A1	4.75	8.77	18	1.50	12.90	0.68
1A	2A	A1	4.75	8.77	18	3.25	18.99	0.46
2A	1C	A1-A2	6.23	10.29	18	4.00	21.06	0.49
1C	1	A1-A2	6.23	10.29	18	4.16	21.48	0.48
1B	1	A3	1.75	3.03	18	2.50	16.65	0.18
1	2	A1-A3	7.98	12.63	21	0.70	13.29	0.95
2	3	A1-A4	8.78	14.02	24	0.70	18.98	0.74
3	4	A1-A5	9.61	15.36	24	0.80	20.29	0.76
4	5	A1-A5	9.61	15.36	24	1.00	22.68	0.68
5	OUTFALL	A1-A6	11.77	18.77	30	0.75	35.62	0.53
CB6-B	OUTFALL	B1	2.10	3.12	12	5.00	10.38	0.30
7	EX. 9	C1	2.06	3.83	15	1.10	6.79	0.56
EX. 9	EX. 1	C1-C2	7.54	13.83	24	0.75	19.64	0.70
EX. 1	OUTFALL	C1-C3	12.34	22.55	30	0.50	29.08	0.78



**ISSUED FOR REVIEW  
NOT FOR CONSTRUCTION**

ISSUE	DATE	DESCRIPTION
4	JUL. 16, 2020	PERFORATED PIPE ADDED
3	JUN. 12, 2019	REVISED AS PER MDWH COMMENTS
2	NOV. 04, 2015	REVISED AS PER MDWH COMMENTS
1	MAR. 27, 2015	ISSUED FOR REGULATORY REVIEW

CONSULTANT

DESIGN POINT  
ENGINEERING & SURVEYING

CLIENT

BRISON DEVELOPMENTS

PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**STORM DRAINAGE /  
ENVIRONMENTAL  
PROTECTION PLAN**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 7 of 11
Date of 1st Issue MAR. 27, 2015	Scale AS NOTED	Filename 14-033CBase.dwg	

June 22, 2020

**West Hants Regional Municipality**

100 King Street

Windsor, Nova Scotia B0N 2T0

Attention: Rick Sherrard, Manager of Technical Engineering Services

**RE: The Meadows Phase 2A – Storm Drainage System Modification Request**

DesignPoint Project #: 14-033

Further to our site meeting, I herein request that the Municipality allow the Developer to modify the storm drainage plan as follows:

- 1) Install an additional 250 mm $\varnothing$  PVC DR35 storm pipe from CB7-A and CB7-B to rear lot line between lots 240 and 242. This pipe will discharge water from area A7 only (2.1 acres). The discharge will be directed into the existing ditch/drainage route at the rear of the lots, the property at this location is owned by Brison Developments. This ditch drains to the same watercourse that the discharge from the drainage pond for the project discharges to.
- 2) Remove the deep storm sewer pipes from MHST7A to MHST9 and from MHST7 to MHST5, with CB7-A and CB7-B directed to the ditch as described above. The deep storm sewer pipes are not needed for CB7-A and CB7-B. The Developer has decided to build all homes as slab on grade and therefore a deep storm sewer for footing drains is not required.

We will be able to balance the pre and post development flows with oversized pipe or perforated pipe. This storm water design approach will provide adequate drainage for this project and will meet all regulatory requirements.

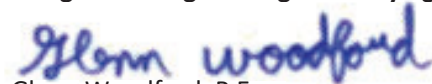
For reference, refer to attached design drawings for The Meadows Phase 2, sheets 1-11, revision 3, dated June 12, 2019, as signed by myself.

If this is acceptable to the Municipality, we will submit a revised design along with the storm drainage calculations.

If you have any questions, please feel free to contact me.

Thank you,

**DesignPoint Engineering & Surveying Ltd.**



Glenn Woodford, P.Eng.

Senior Engineer & Principal

GSW/alc

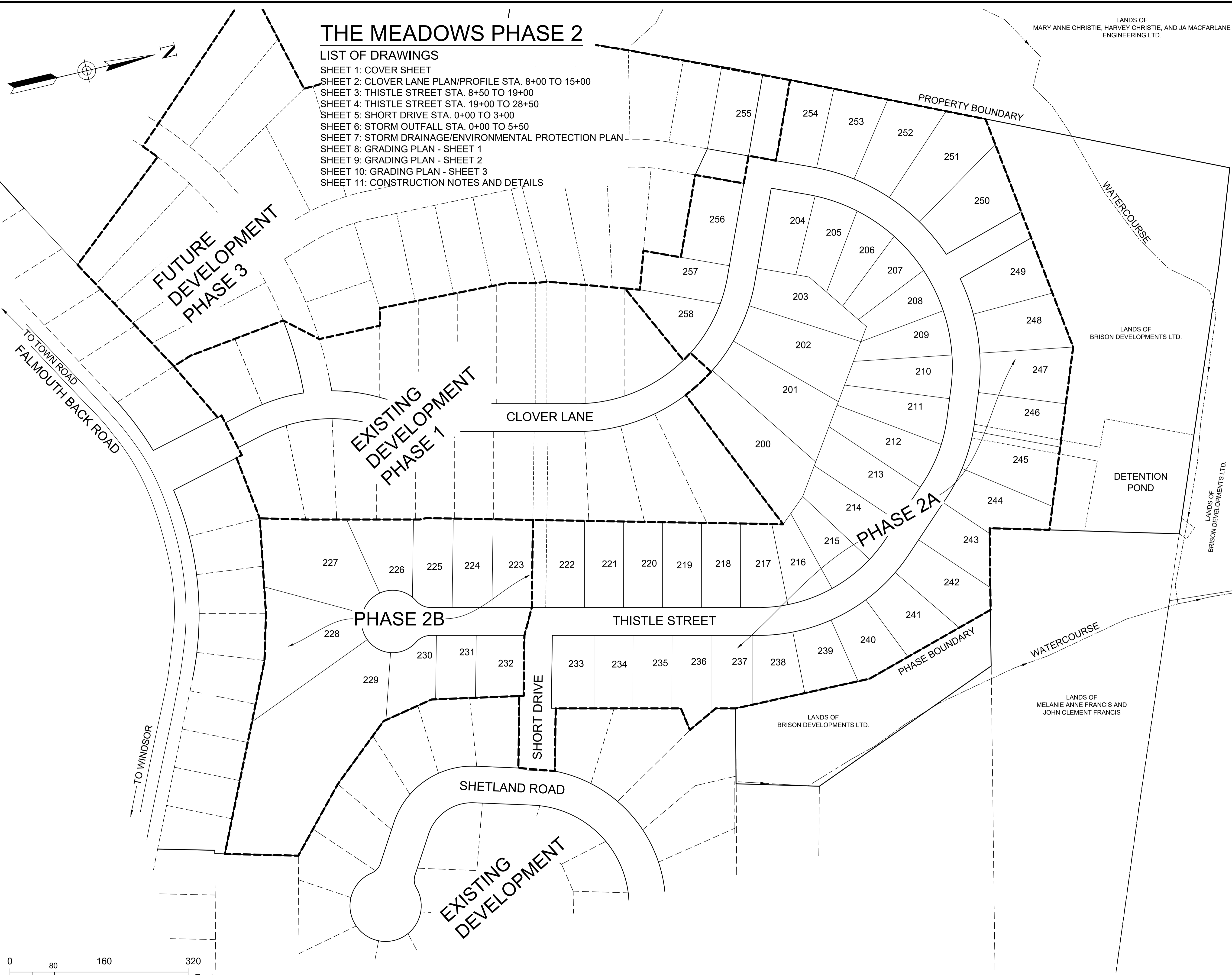
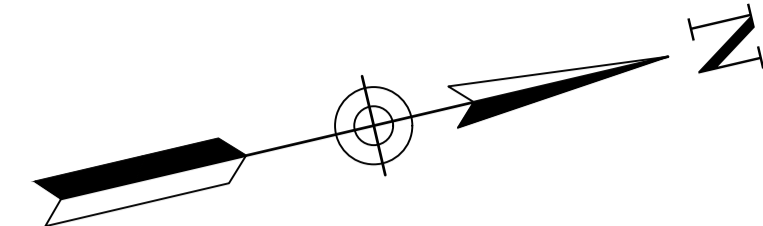
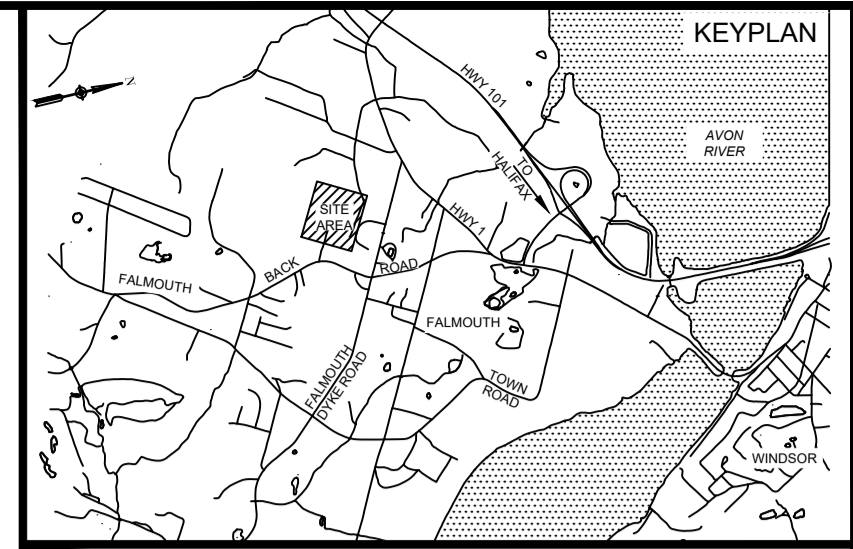
Enclosures: The Meadows Phase 2 Design Drawings

# THE MEADOWS PHASE 2

## LIST OF DRAWINGS

- SHEET 1: COVER SHEET
- SHEET 2: CLOVER LANE PLAN/PROFILE STA. 8+00 TO 15+00
- SHEET 3: THISTLE STREET STA. 8+50 TO 19+00
- SHEET 4: THISTLE STREET STA. 19+00 TO 28+50
- SHEET 5: SHORT DRIVE STA. 0+00 TO 3+00
- SHEET 6: STORM OUTFALL STA. 0+00 TO 5+50
- SHEET 7: STORM DRAINAGE/ENVIRONMENTAL PROTECTION PLAN
- SHEET 8: GRADING PLAN - SHEET 1
- SHEET 9: GRADING PLAN - SHEET 2
- SHEET 10: GRADING PLAN - SHEET 3
- SHEET 11: CONSTRUCTION NOTES AND DETAILS

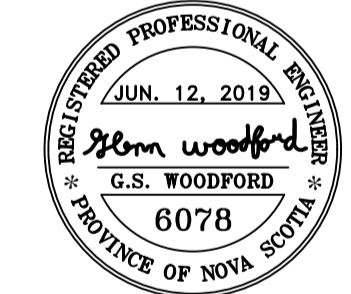
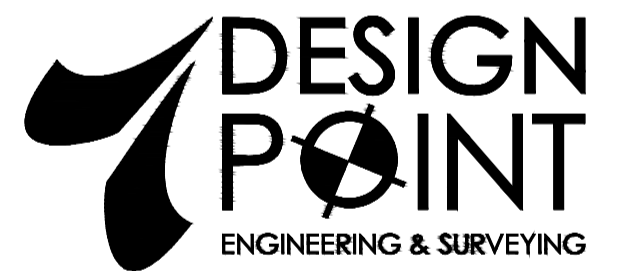
LANDS OF  
MARY ANNE CHRISTIE, HARVEY CHRISTIE, AND JA MACFARLANE  
ENGINEERING LTD.



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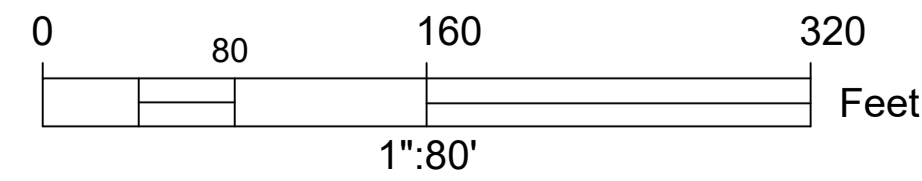


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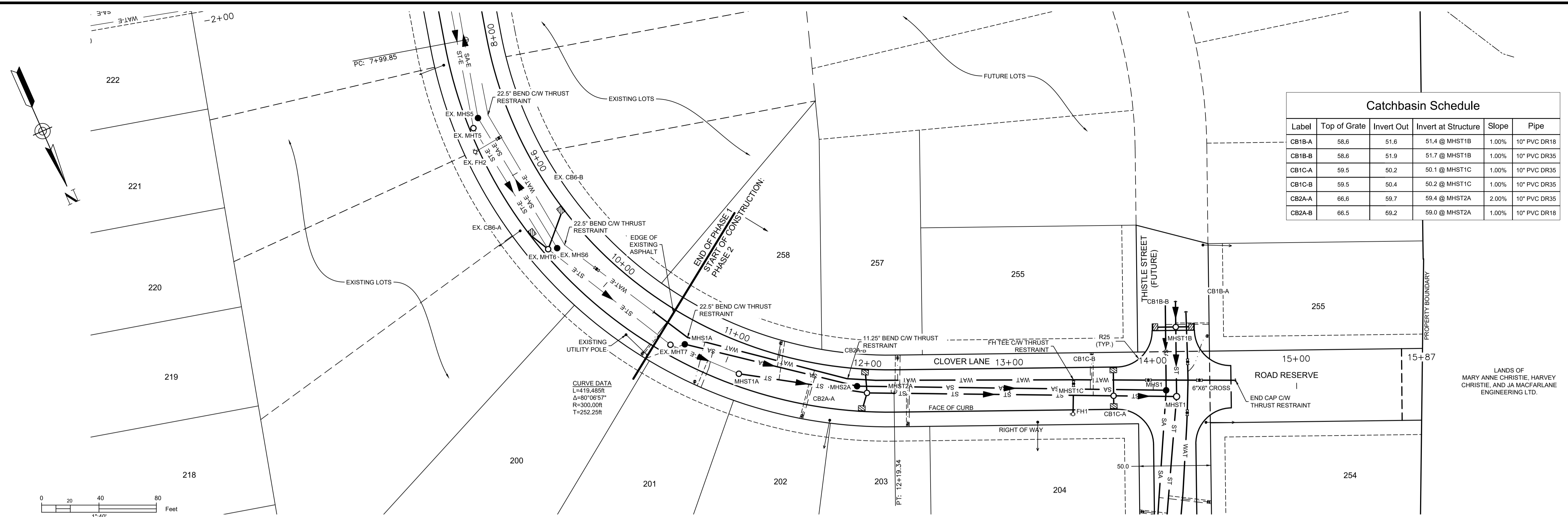
**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**COVER  
SHEET**

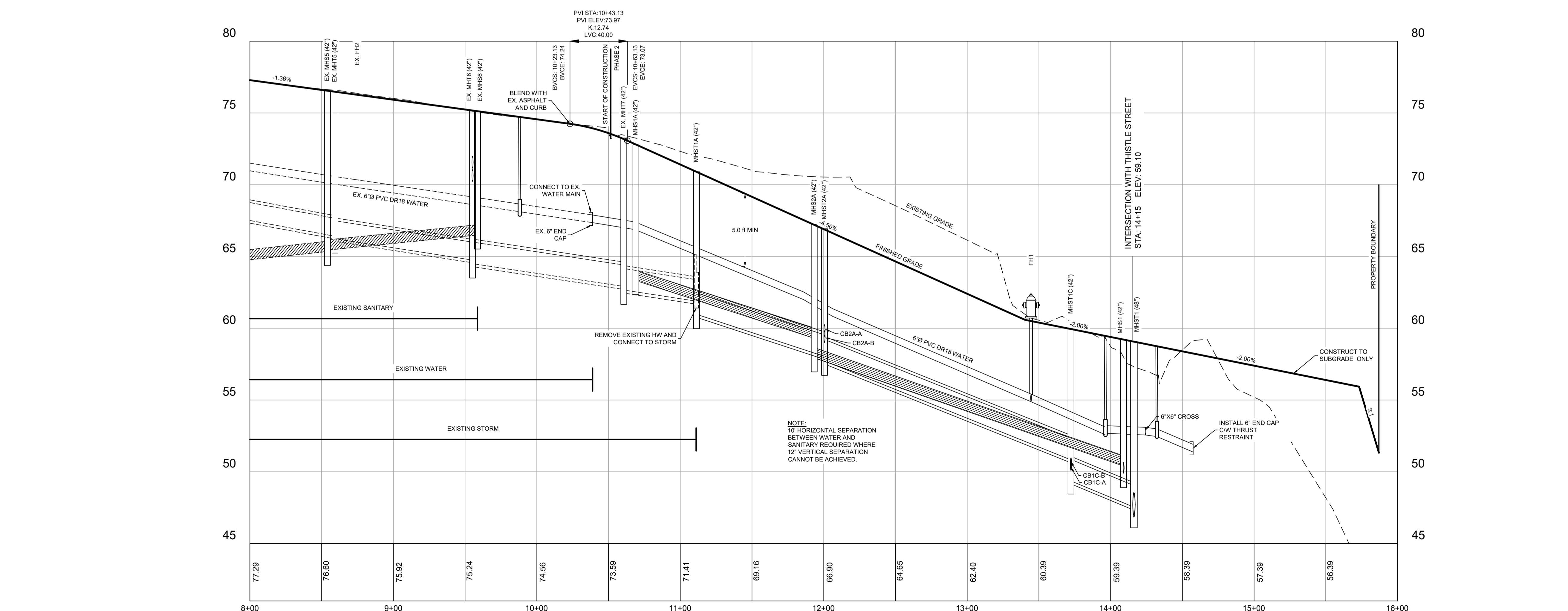


Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	1 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	1"=80' H	14-033CBase.dwg	



Label	Top of Grate	Invert Out	Invert at Structure	Slope	Pipe
CB1B-A	58.6	51.6	51.4 @ MHST1B	1.00%	10" PVC DR18
CB1B-B	58.6	51.9	51.7 @ MHST1B	1.00%	10" PVC DR35
CB1C-A	59.5	50.2	50.1 @ MHST1C	1.00%	10" PVC DR35
CB1C-B	59.5	50.4	50.2 @ MHST1C	1.00%	10" PVC DR35
CB2A-A	66.6	59.7	59.4 @ MHST2A	2.00%	10" PVC DR35
CB2A-B	66.5	69.2	59.0 @ MHST2A	1.00%	10" PVC DR18

DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●— MHS
STORM LINE	—○— ST —○— ST —○— MHS
WATER LINE	—WAT— WAT —WAT—
SANITARY LATERAL	—————
STORM LATERAL	—————
WATER LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH —OH—
WATER VALVE	— —
CURB STOP	— —
CATCHBASIN	— —
	FIRE HYDRANT
	UTILITY POLE
	PRECAST HEADWALL



Station	Storm Sewer	Sanitary Sewer
8+00	77.29	65.47
9+00	76.60	66.52
10+00	75.92	63.34
11+00	75.24	59.32
12+00	74.56	57.96
13+00	73.89	50.83
14+00	73.21	49.96
15+00	72.53	47.53
16+00	71.85	

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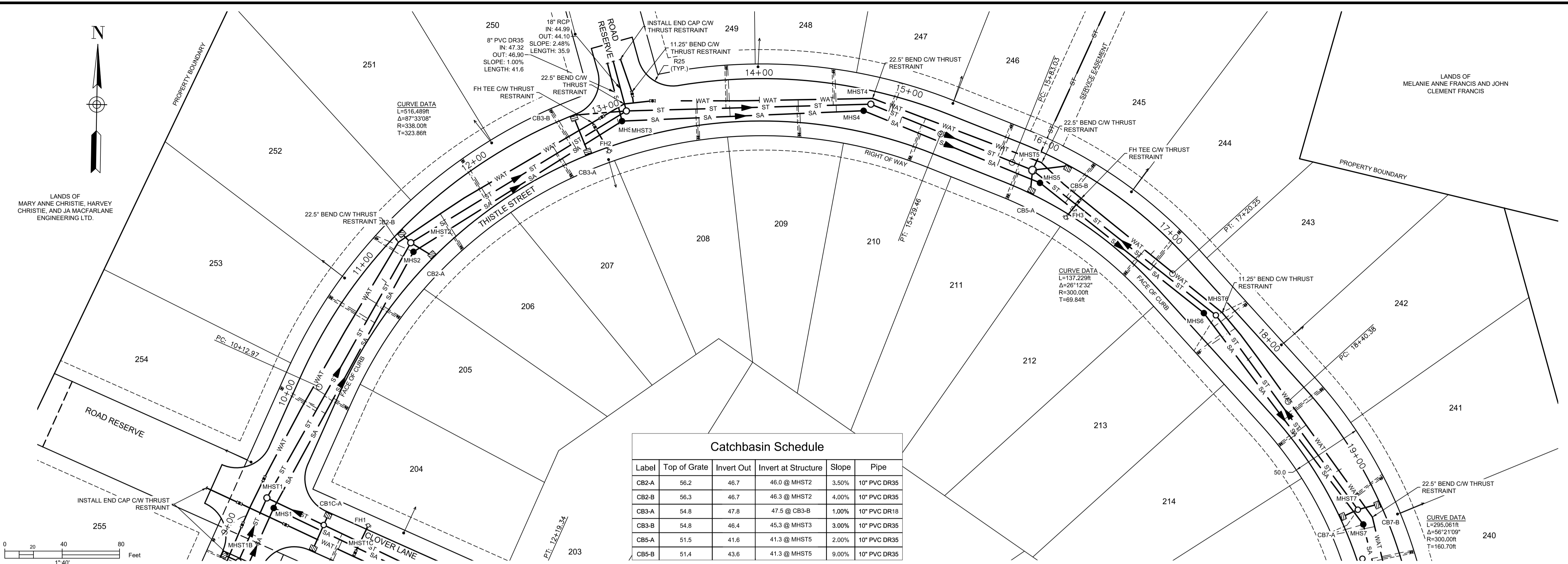
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

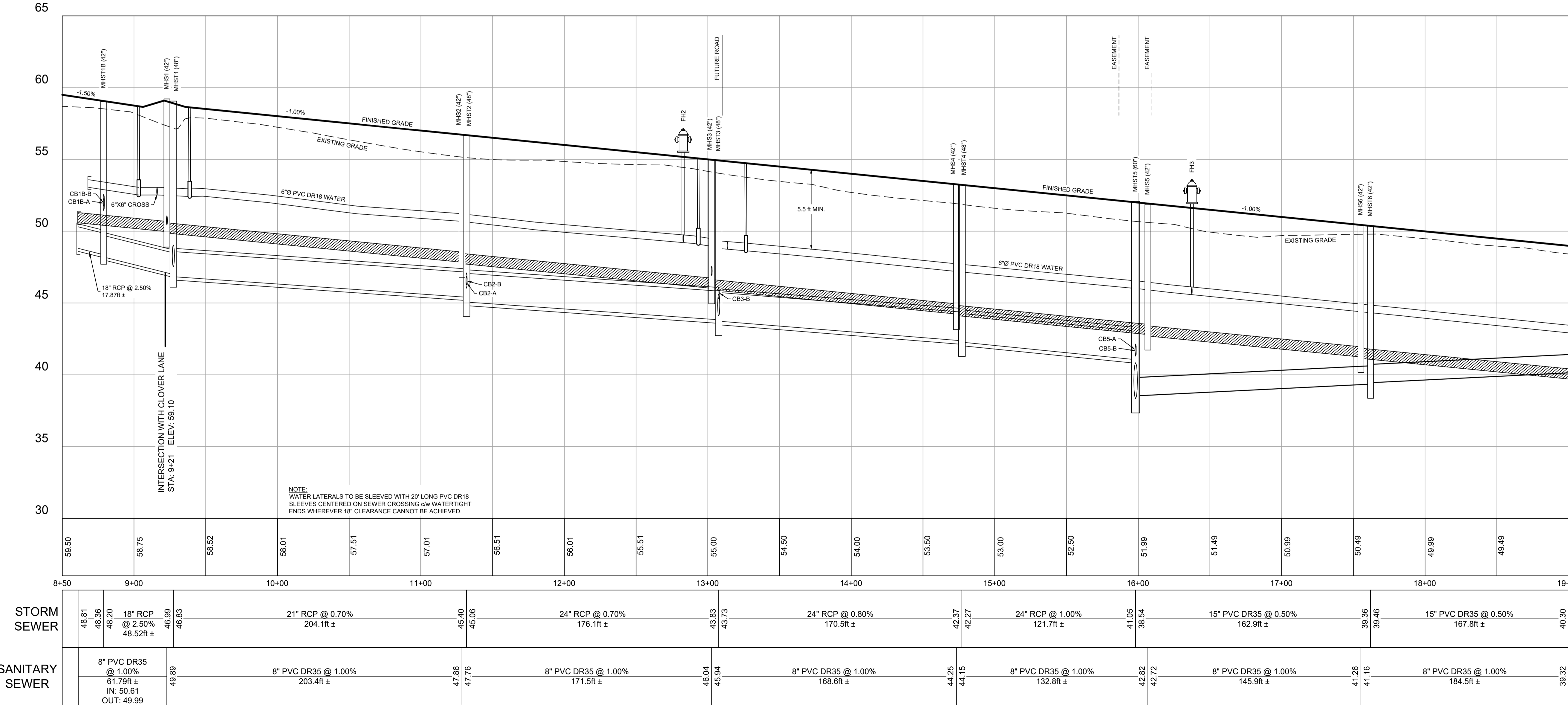
**PLAN / PROFILE**  
CLOVER LANE  
STA. 8+00 TO 15+00

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 2 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



Catchbasin Schedule					
Label	Top of Grate	Invert Out	Invert at Structure	Slope	Pipe
CB2-A	56.2	46.7	46.0 @ MHST2	3.50%	10" PVC DR35
CB2-B	56.3	46.7	46.3 @ MHST2	4.00%	10" PVC DR35
CB3-A	54.8	47.8	47.5 @ CB3-B	1.00%	10" PVC DR18
CB3-B	54.8	46.4	45.3 @ MHST3	3.00%	10" PVC DR35
CB5-A	51.5	41.6	41.3 @ MHST5	2.00%	10" PVC DR35
CB5-B	51.4	43.6	41.3 @ MHST5	9.00%	10" PVC DR35

LEGEND	
DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●— SA
STORM LINE	—○— ST —○— ST —○— ST
WATER LINE	—●— WAT —●— WAT —●— WAT
SANITARY LATERAL	—————
STORM LATERAL	—————
WATER LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH— OH—
WATER VALVE	⊞ FIRE HYDRANT
CURB STOP	⊞ UTILITY POLE
CATCHBASIN	⊞ PRECAST HEADWALL



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REGISTERED PROFESSIONAL ENGINEER  
JUN. 12, 2019  
G.S. WOODFORD  
6078  
PROVINCE OF NOVA SCOTIA

CLIENT

BRISON DEVELOPMENTS

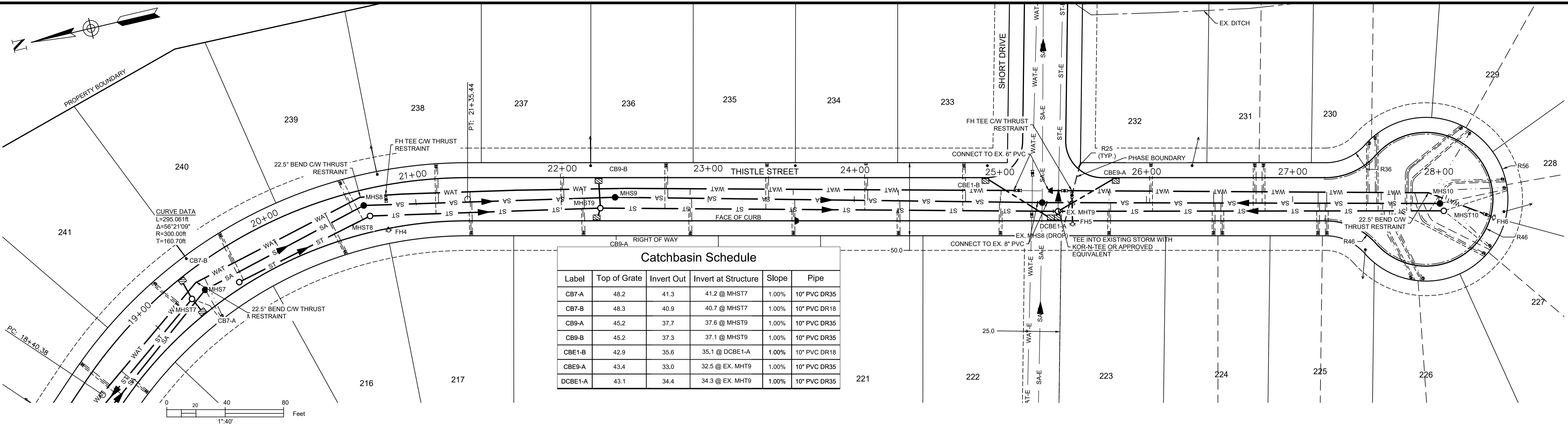
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

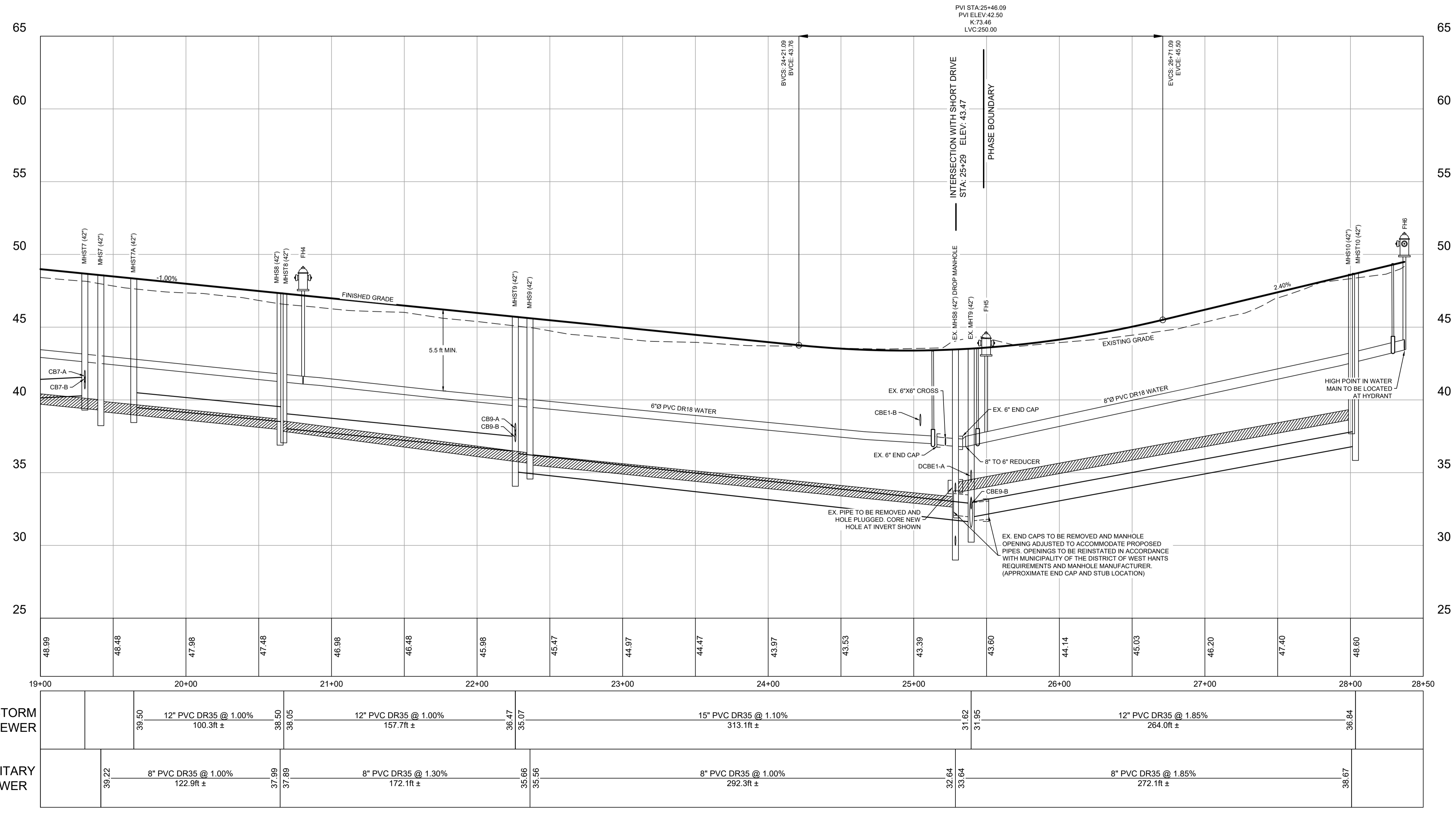
**PLAN / PROFILE**  
THISTLE STREET  
STA. 8+50 TO 19+00

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 3 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



Label	Top of Grate	Invert Out	Invert at Structure	Slope	Pipe
CB7-A	48.2	41.3	41.2 @ MHST7	1.00%	10" PVC DR35
CB7-B	48.3	40.9	40.7 @ MHST7	1.00%	10" PVC DR18
CB9-A	45.2	37.7	37.6 @ MHST9	1.00%	10" PVC DR35
CB9-B	45.2	37.3	37.1 @ MHST9	1.00%	10" PVC DR35
CBE1-B	42.9	35.6	35.1 @ DCBE1-A	1.00%	10" PVC DR18
CBE9-A	43.4	33.0	32.5 @ EX. MHT9	1.00%	10" PVC DR35
DCBE1-A	43.1	34.4	34.3 @ EX. MHT9	1.00%	10" PVC DR35

DESIGN GRADE	---
EXISTING GRADE	---
CENTERLINE	---
RIGHT OF WAY	---
CURB	---
EASEMENT	---
PROPERTY BOUNDARY	---
SANITARY LINE	--- MHS --- SA --- MHS
STORM LINE	--- ST --- ST --- ST
WATER LINE	--- WAT --- WAT --- WAT
SANITARY LATERAL	---
STORM LATERAL	---
WATER LATERAL	---
STORM EASEMENT	---
OVERHEAD UTILITY	--- OH --- OH
WATER VALVE	⊠
FIRE HYDRANT	⊙
CURB STOP	⊛
UTILITY POLE	⊙
CATCHBASIN	⊠
PRECAST HEADWALL	⊠



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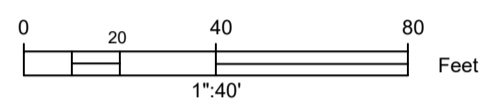
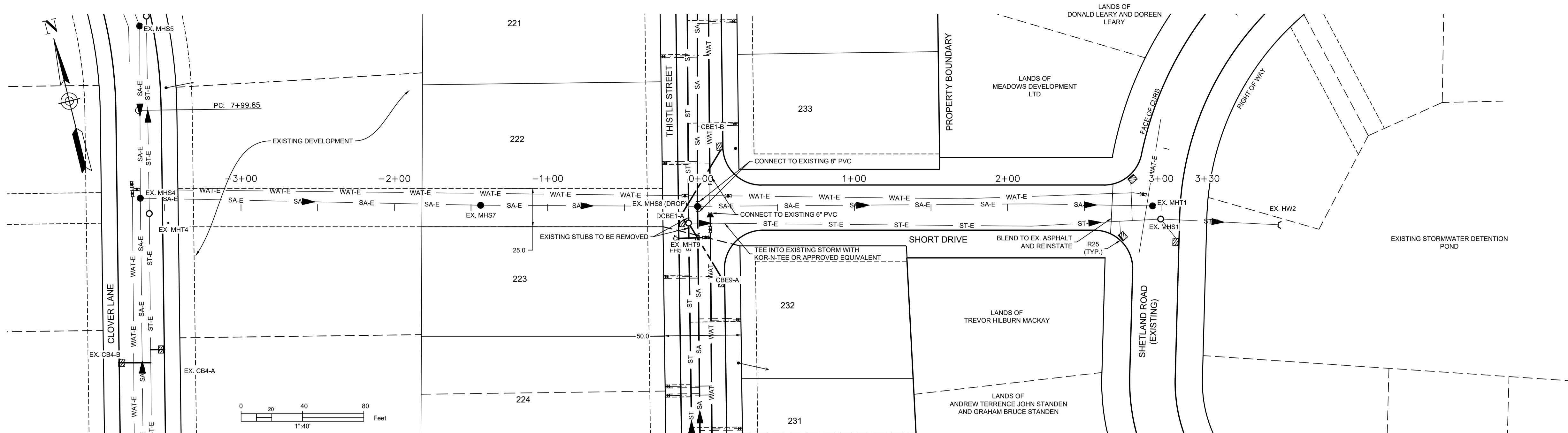
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

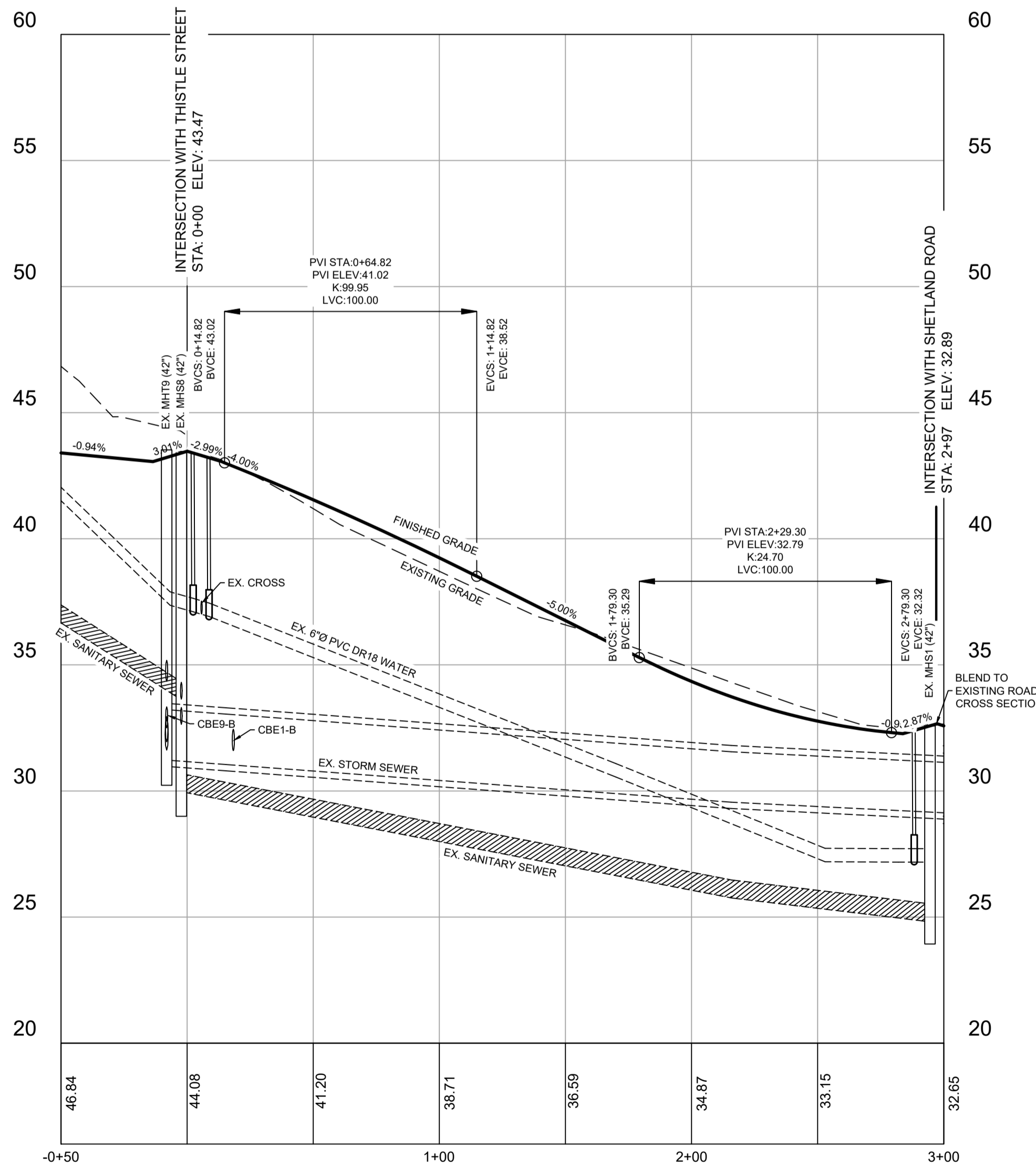
SHEET DESCRIPTION

**PLAN / PROFILE**  
THISTLE STREET  
STA. 19+00 TO 28+50

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 4 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



LEGEND	
DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●— MHS
STORM LINE	—○— ST —○— ST —○— MHS
WATER LINE	—●— WAT —●— WAT
SANITARY LATERAL	—————
STORM LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH—
WATER VALVE	⊠
FIRE HYDRANT	⊙
CURB STOP	⊛
UTILITY POLE	⊙
CATCHBASIN	⊠
PRECAST HEADWALL	⊠

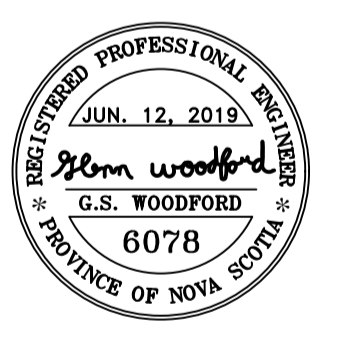
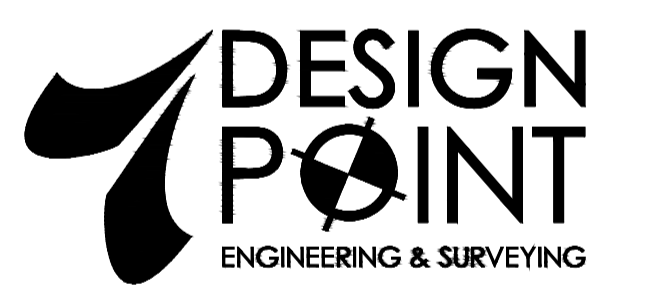


STORM SEWER	31.05	EX. 24" RCP @ 0.75% 200.3ft ±	29.55 29.55	EX. 24" RCP @ 0.50% 84.2ft ±	29.14
SANITARY SEWER	42.67 EX. 8" PVC @ 6.38% 141.4ft ±	33.64 29.99	EX. 8" PVC @ 1.93% 218.2ft ±	25.78 25.78	24.84 EX. 8" PVC @ 1.20% 78.6ft ±

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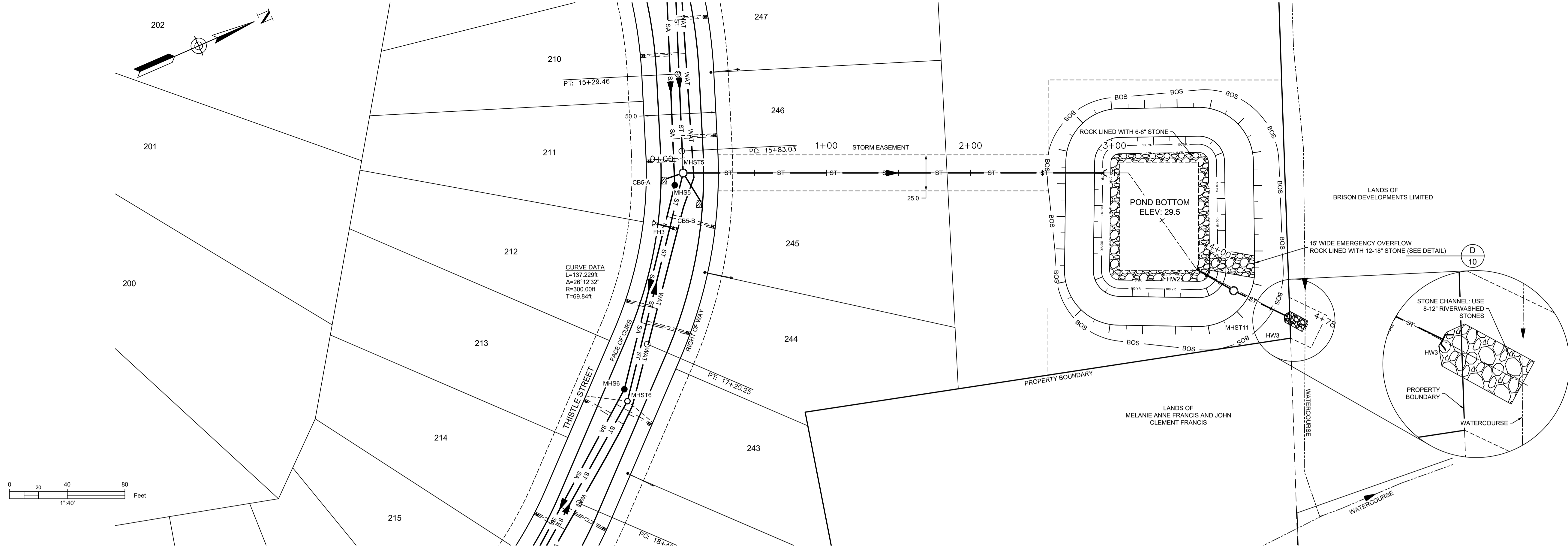
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

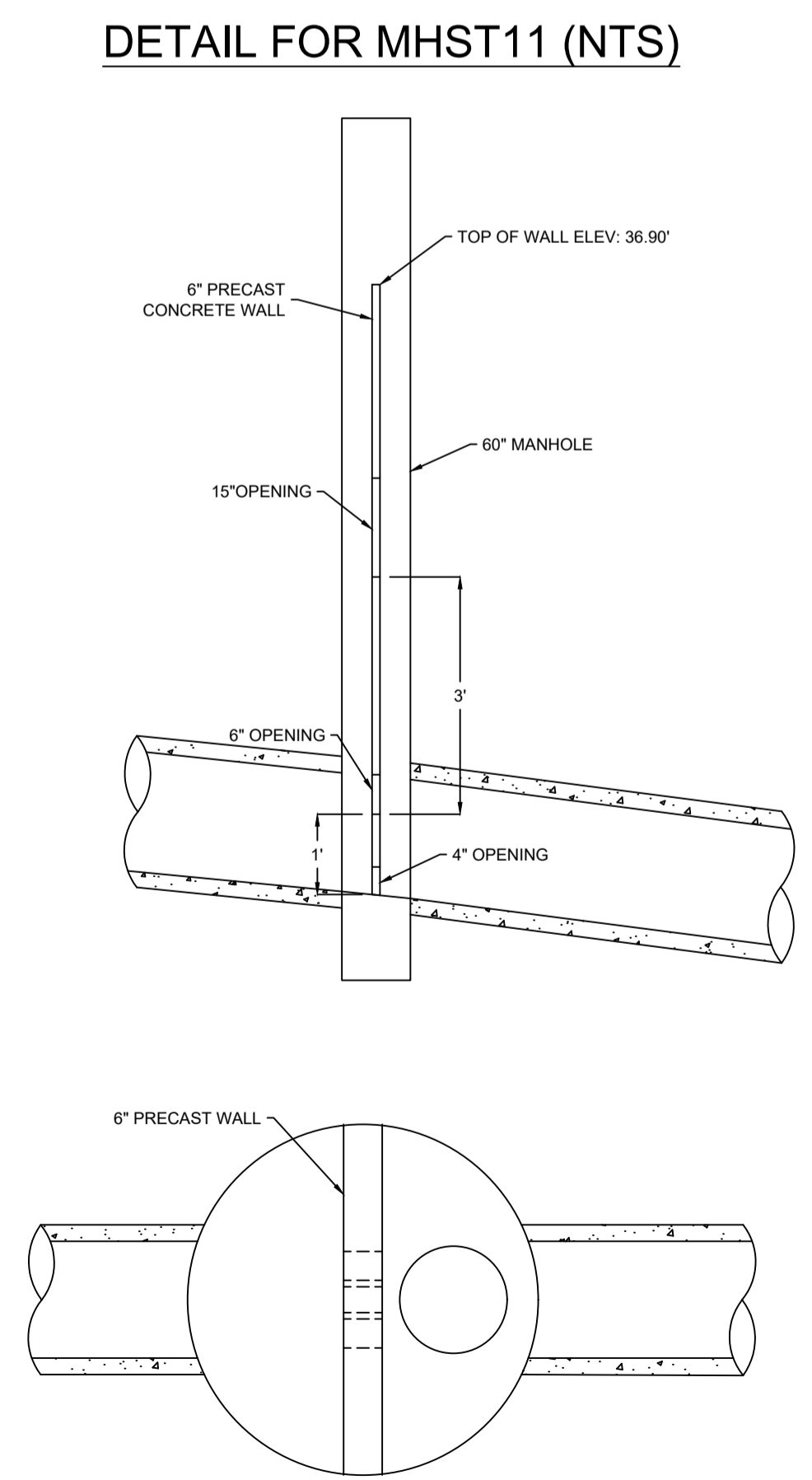
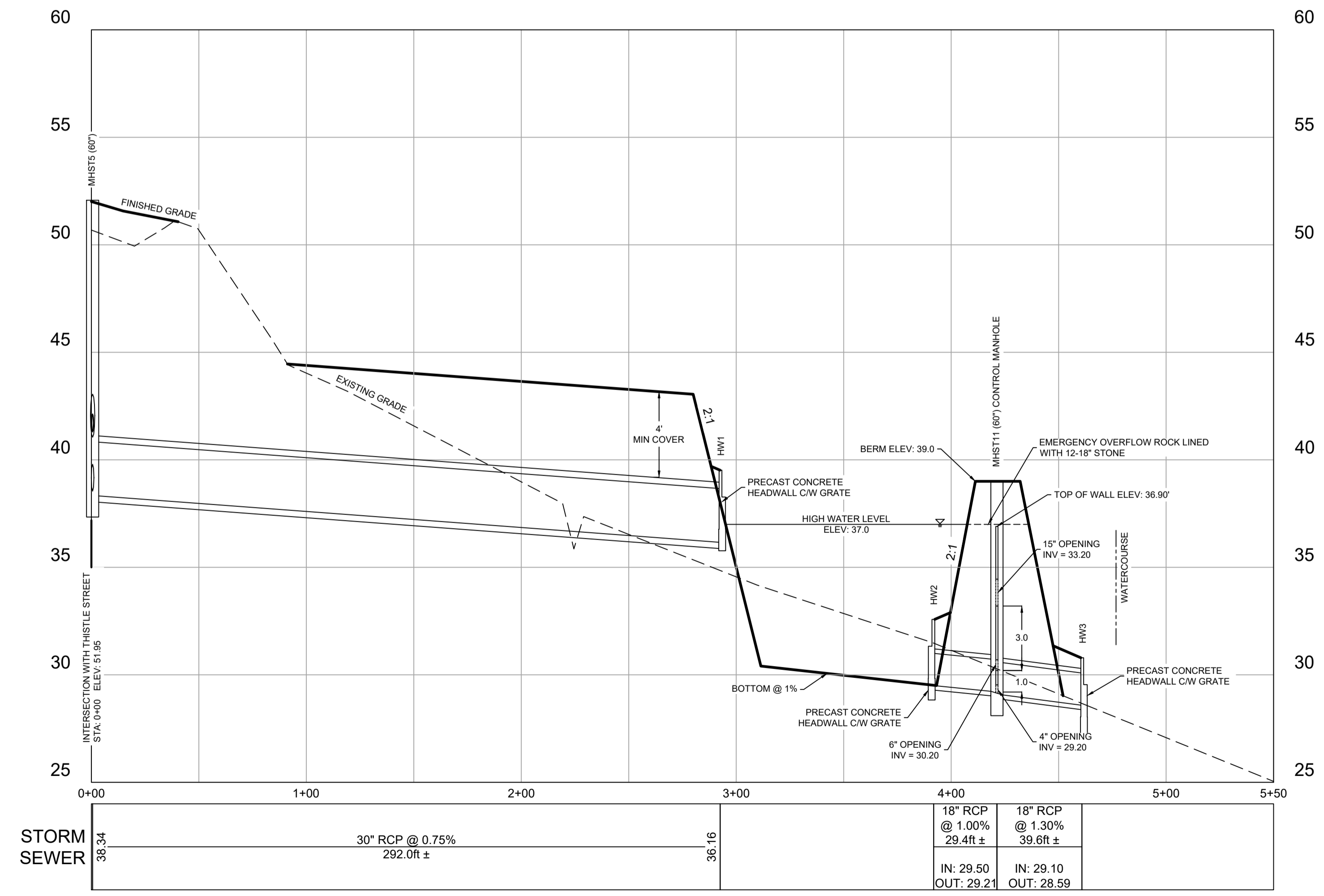
SHEET DESCRIPTION

**PLAN / PROFILE**  
SHORT DRIVE  
STA. 0+00 TO 3+00

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. <b>5 of 11</b>
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



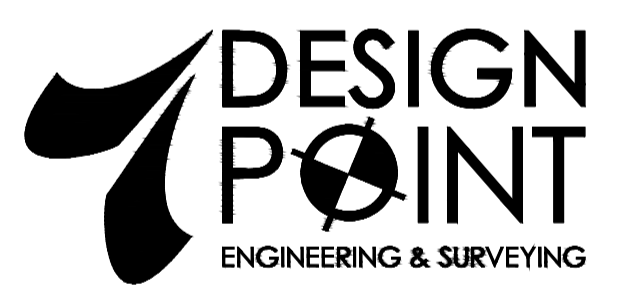
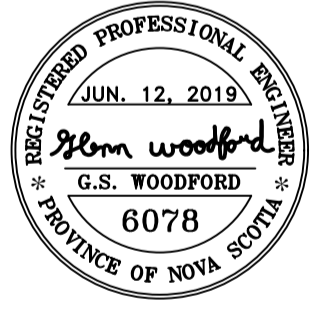
LEGEND	
DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●—
STORM LINE	—○— ST —○— ST —○—
WATER LINE	—WAT— WAT —WAT—
SANITARY LATERAL	—————
STORM LATERAL	—————
WATER LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH —OH—
WATER VALVE	⊕ FIRE HYDRANT
CURB STOP	⊕ UTILITY POLE
CATCHBASIN	⊕ PRECAST HEADWALL



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PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

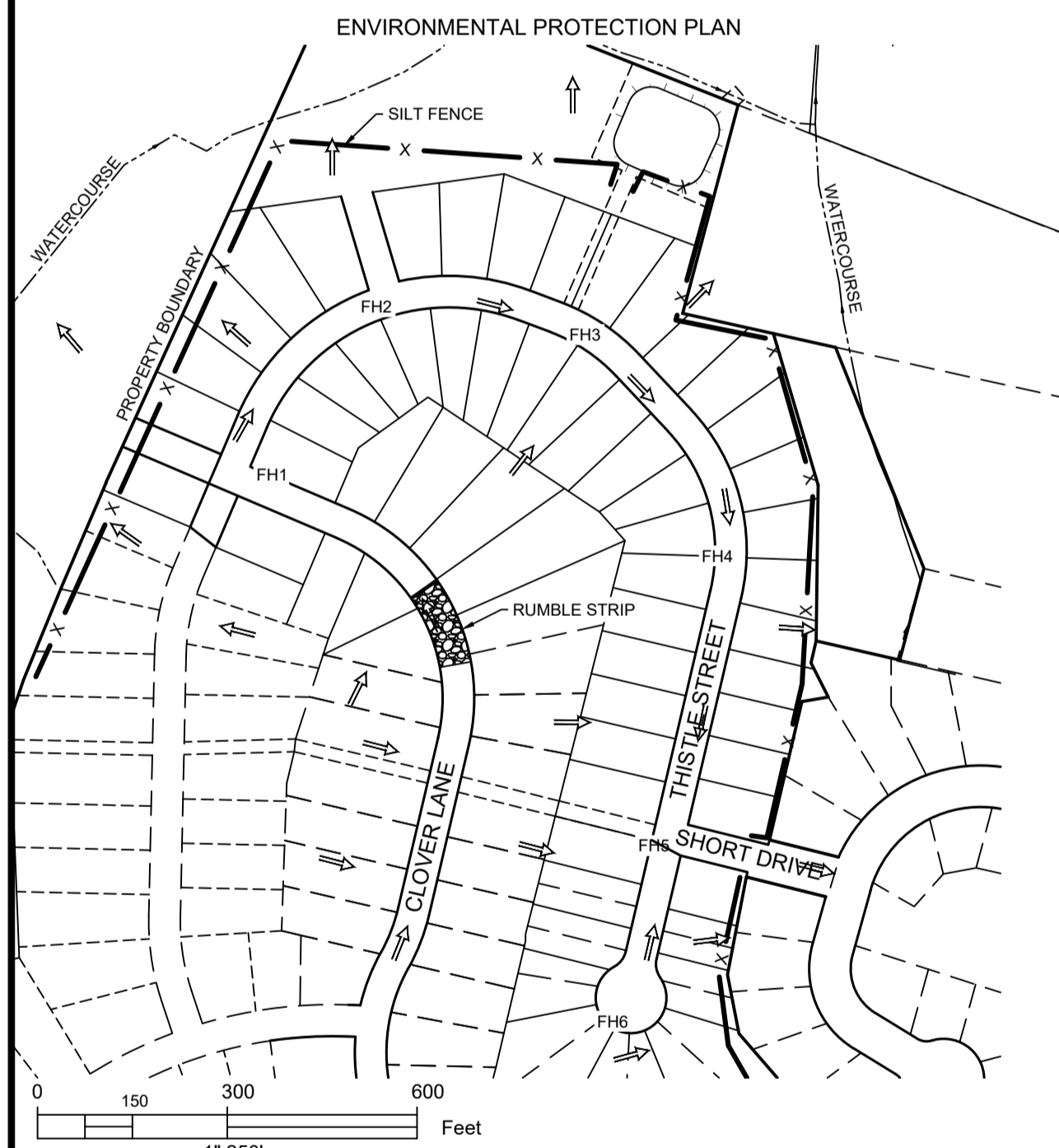
SHEET DESCRIPTION

**PLAN / PROFILE**  
STORM OUTFALL  
STA. 0+00 TO 5+50

Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	6 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	

# GENERAL EROSION AND SEDIMENT CONTROL NOTES

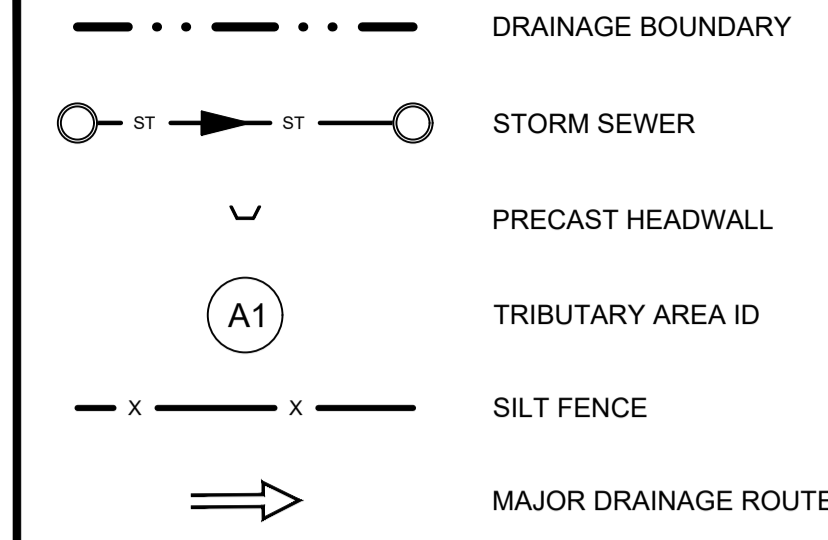
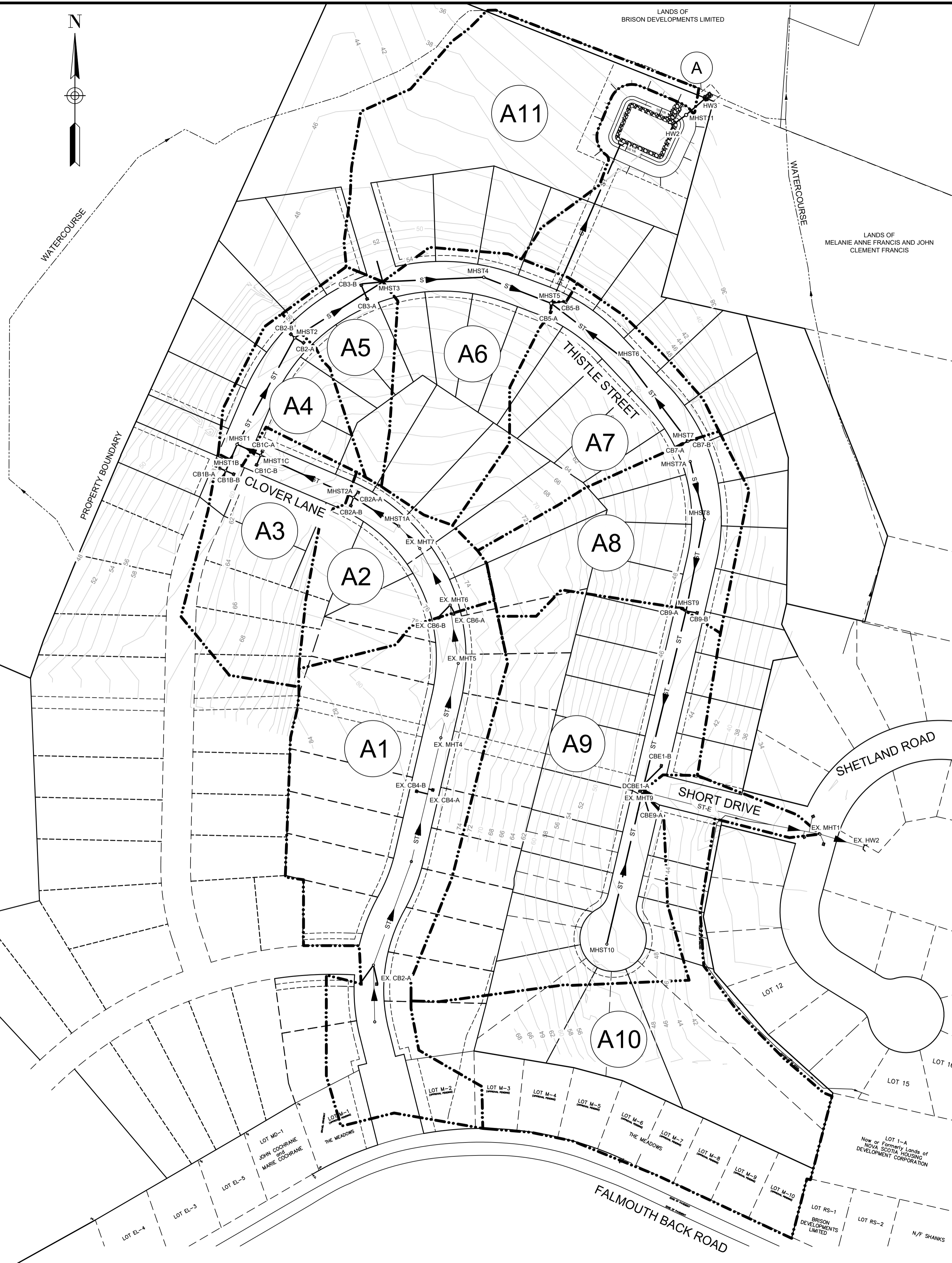
1. EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
2. ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF ENVIRONMENT REQUIREMENTS.
3. CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
4. CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
5. CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS ([https://weather.gc.ca/canada\\_e.html](https://weather.gc.ca/canada_e.html)).
6. CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
7. TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
8. CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
9. CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
10. EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
11. CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
12. SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
13. SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
14. UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
15. TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
16. ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
17. VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
18. STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.)
19. SITE ACTIVITY TO ADHERE TO REQUIREMENTS OF HALIFAX REGIONAL MUNICIPALITY TOPSOIL BY-LAW.
20. ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
21. SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.



Catchment	Area (ac) ±	Catchment	Area (ac) ±
A1	4.75	A7	2.10
A2	1.47	A8	2.06
A3	1.75	A9	5.48
A4	0.81	A10	4.80
A5	0.83	A11	3.66
A6	2.16	Total	29.87

Storm	Flow to Point A (cfs)	
	Pre-Development	Post-Development
5 Year	6.20	5.87
10 Year	9.49	7.59
25 Year	14.7	11.72
50 Year	18.66	15.18
100 Year	22.84	18.95

Minor Piped Storm System Drainage Analysis - SCS Method (10 Year Return)										
Upstream MH	Downstream MH	Tributary Area	Tributary Area +/- (Ac)	Qd - Design Flow (cfs)	Pipe Size (in)	Pipe Slope (%)	Qc - Pipe Capacity (cfs)	Qd/Qc	Depth of Flow (in)	Max. Velocity (ft/s)
EX 7	1A	A1	4.75	7.55	18	1.50	12.89	0.59	9.8	7.60
1A	2A	A1	4.75	7.58	18	3.25	18.92	0.40	7.8	10.13
2A	1	A1-A2	6.23	10.29	18	4.95	23.38	0.44	8.3	12.81
1	2	A1-A3	7.98	12.63	21	0.70	13.26	0.95	15.6	6.32
2	3	A1-A4	8.78	14.02	24	0.70	18.91	0.74	14.4	6.61
3	4	A1-A5	9.61	15.36	24	0.80	20.20	0.76	14.4	7.11
4	5	A1-A5	9.61	15.36	24	1.00	22.65	0.68	13.2	7.75
6	5	A7	2.10	3.88	15	0.50	4.58	0.85	10.0	4.24
7	6	A7	2.10	3.95	15	0.50	4.57	0.86	10.6	4.25
5	Outfall	A1-A7	13.87	22.60	30	0.75	35.44	0.64	15.7	7.70
8	9	-	-	0.00	12	1.00	3.57	0.00	0.0	0.00
9	EX 9	A8	2.06	3.83	15	1.10	6.78	0.57	7.9	5.78
10	EX 9	-	-	0.00	12	1.85	4.85	0.00	0.0	0.00
EX 9	EX 1	A8-A9	7.54	13.83	24	0.88	18.59	0.74	15.1	6.57
EX 1	Outfall	A8-A10	12.34	22.55	30	0.50	29.00	0.78	19.4	6.53



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REGISTERED PROFESSIONAL ENGINEER  
JUN. 12, 2019  
*Glen Woodford*  
G.S. WOODFORD  
6078  
PROVINCE OF NOVA SCOTIA

CLIENT

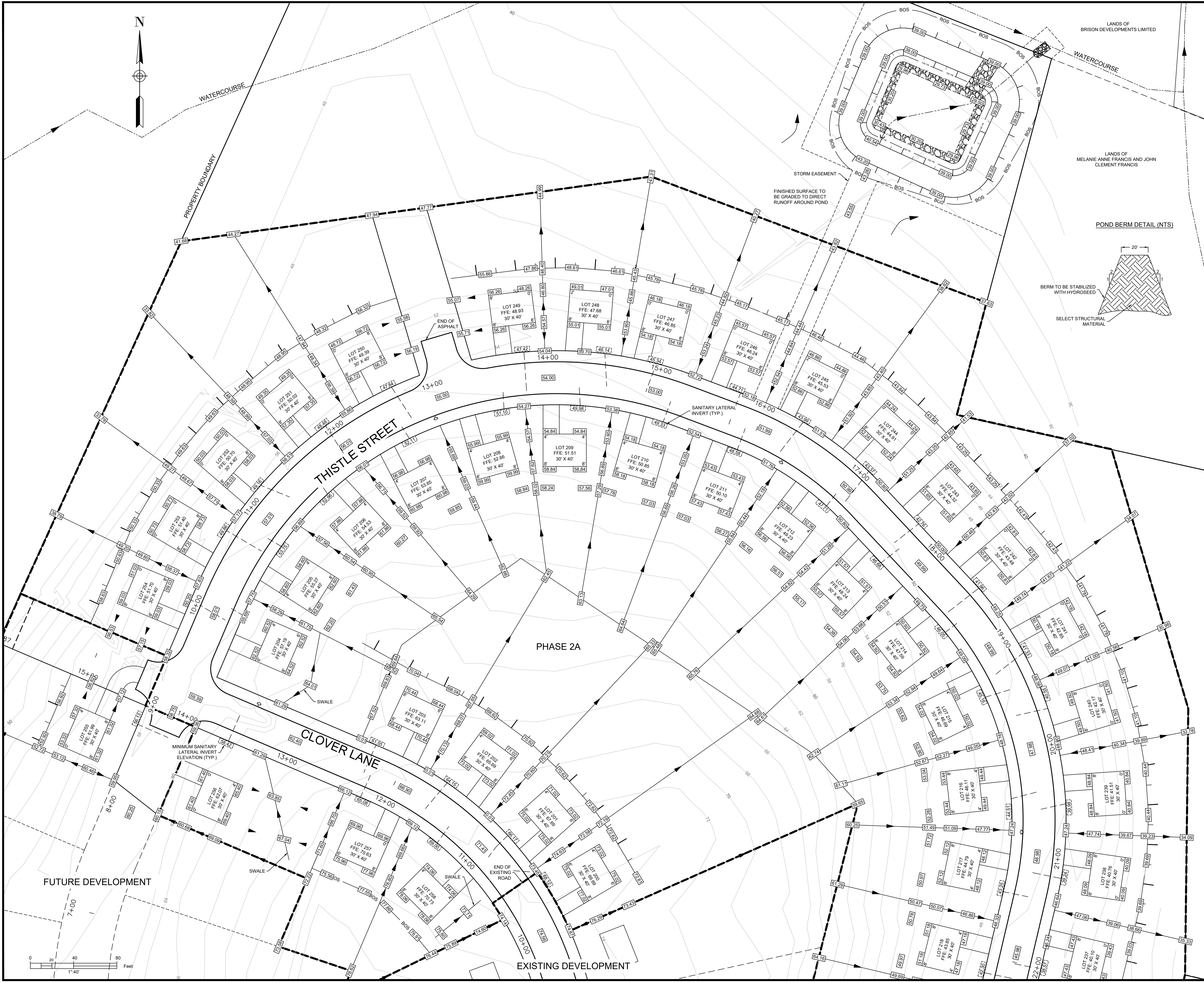
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**STORM DRAINAGE /  
ENVIRONMENTAL  
PROTECTION PLAN**

Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	7 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	1"=100' H	14-033CBase.dwg	



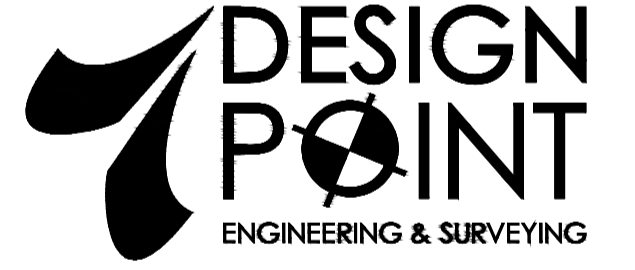
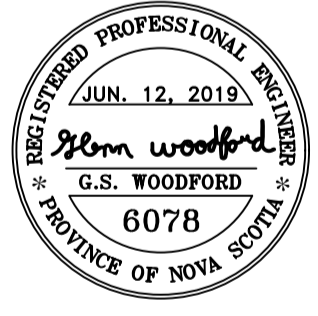
LEGEND	
CONTOUR	— 38
CURB	—
PROPERTY LINE WITH FLOW ARROW	→
TOP OF SLOPE	—
BOTTOM OF SLOPE	— BOS —
UTILITY POLE	● FIRE HYDRANT
FINISHED GRADE	42.00 SANITARY LATERAL INVERT 42.00

- NOTES:
1. CONTOURS BASED ON TOPOGRAPHIC SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTOUR INTERVAL = 2FT.
  2. MINIMUM LOT GRADE TO BE 2%.
  3. MAXIMUM LOT GRADE TO BE 3:1.
  4. INDIVIDUAL LOT GRADING DESIGN TO BE COMPLETED PRIOR TO HOUSE CONSTRUCTION BASED ON AS BUILT CONDITIONS.
  5. FLOOR ELEVATIONS TO BE CONFIRMED AS PART OF INDIVIDUAL LOT GRADING DESIGN BASED ON AS BUILT LATERAL LOCATIONS.
  6. FOUNDATION DRAIN INVERT ELEVATIONS AT BUILDING TO BE A MINIMUM OF 1" BELOW FFE.
  7. FOUNDATION DRAIN INVERT ELEVATIONS TO BE MINIMUM 2' ABOVE THE STORM MAIN CROWN AT THE POINT OF CONNECTION.

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PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 1**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 8 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H	Filename 14-033CBase.dwg	



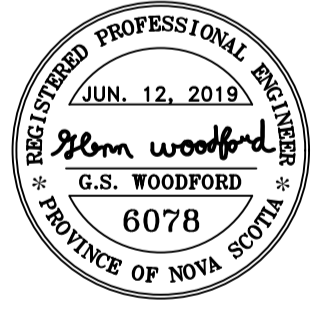
LEGEND			
CONTOUR	— 38 —		
CURB	———		
PROPERTY LINE WITH FLOW ARROW	———▶		
TOP OF SLOPE	———		
BOTTOM OF SLOPE	— BOS	BOS —	
UTILITY POLE	●	FIRE HYDRANT	⊛
FINISHED GRADE	42.00	SANITARY LATERAL INVERT	42.00

- NOTES:
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  2. MINIMUM LOT GRADE TO BE 2%.
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  4. INDIVIDUAL LOT GRADING DESIGN TO BE COMPLETED PRIOR TO HOUSE CONSTRUCTION BASED ON AS BUILT CONDITIONS.
  5. FLOOR ELEVATIONS TO BE CONFIRMED AS PART OF INDIVIDUAL LOT GRADING DESIGN BASED ON AS BUILT LATERAL LOCATIONS.
  6. FOUNDATION DRAIN INVERT ELEVATIONS AT BUILDING TO BE 1' BELOW FFE.
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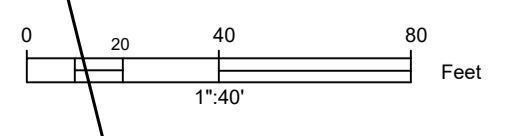
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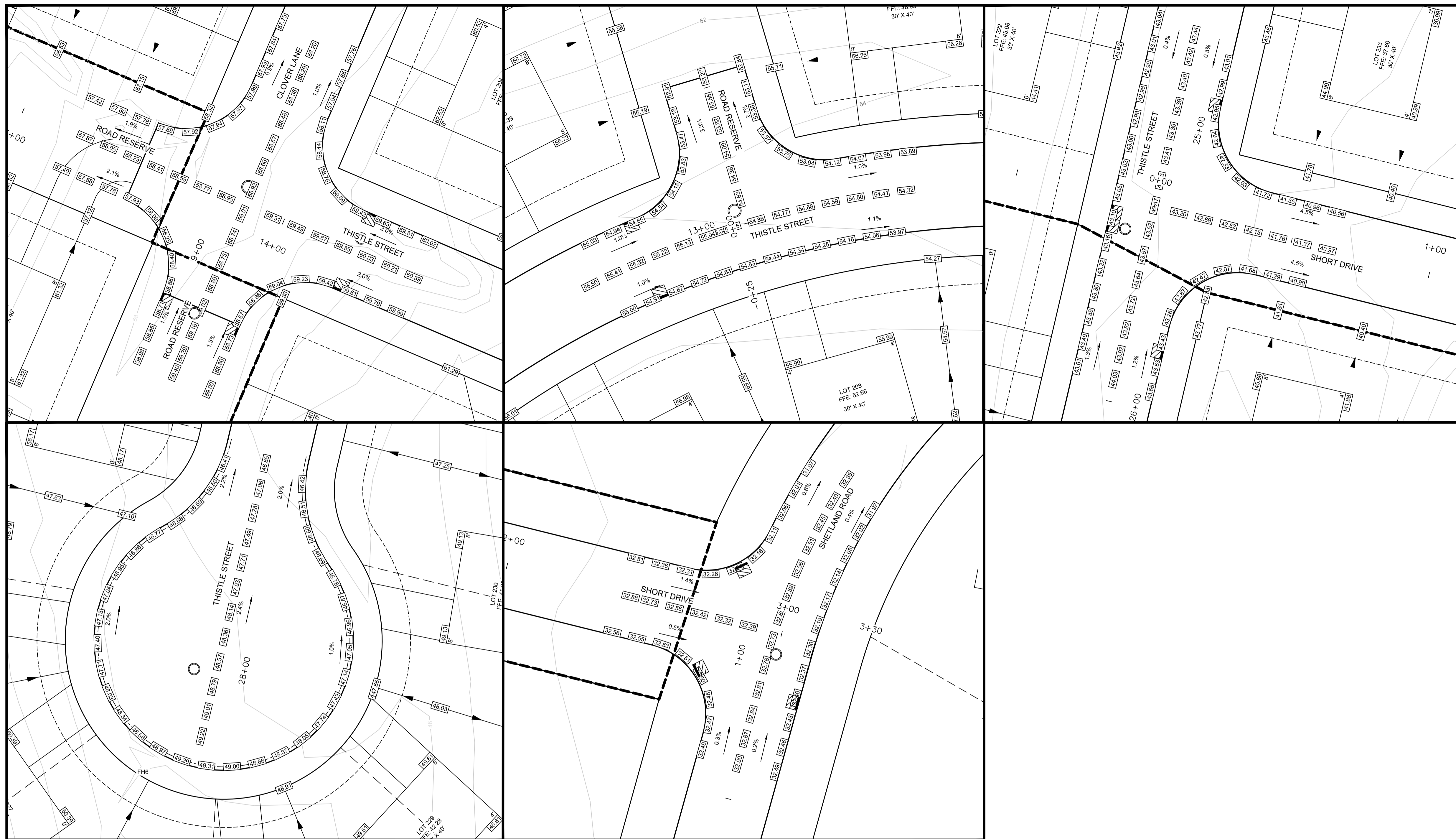
**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 2**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 9 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H	Filename 14-033CBase.dwg	





LEGEND			
CONTOUR	— 38 —		
CURB	———		
PROPERTY LINE WITH FLOW ARROW	———▶		
TOP OF SLOPE	———▲		
BOTTOM OF SLOPE	———▼		
UTILITY POLE	●	○	☆
FINISHED GRADE	42.00	SANITARY LATERAL	42.00
		INVERT	

- NOTES:
1. CONTOURS BASED ON TOPOGRAPHIC SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTOUR INTERVAL = 2FT.
  2. MINIMUM LOT GRADE TO BE 2%.
  3. MAXIMUM LOT GRADE TO BE 3.1%.
  4. INDIVIDUAL LOT GRADING DESIGN TO BE COMPLETED PRIOR TO HOUSE CONSTRUCTION BASED ON AS BUILT CONDITIONS.
  5. FLOOR ELEVATIONS TO BE CONFIRMED AS PART OF INDIVIDUAL LOT GRADING DESIGN BASED ON AS BUILT LATERAL LOCATIONS.
  6. FOUNDATION DRAIN INVERT ELEVATIONS AT BUILDING TO BE A MINIMUM OF 1" BELOW FFE.
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PHASE 2**  
FALMOUTH, NOVA SCOTIA

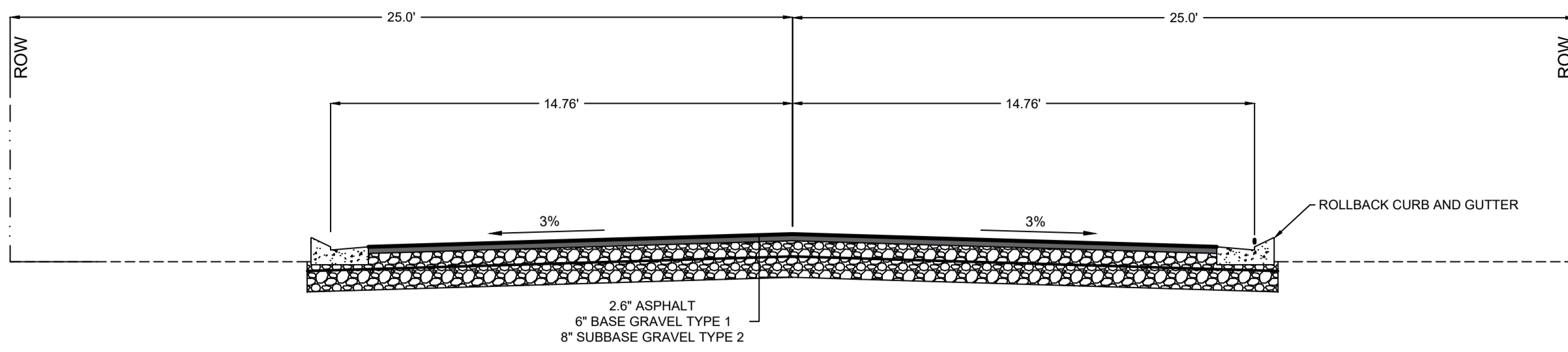
SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 3**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. <b>10 of 11</b>
Date of 1st Issue MAR. 27, 2015	Scale 1"=20' H	Filename 14-033CBase.dwg	

TYPICAL ROAD CROSS SECTION

A  
11

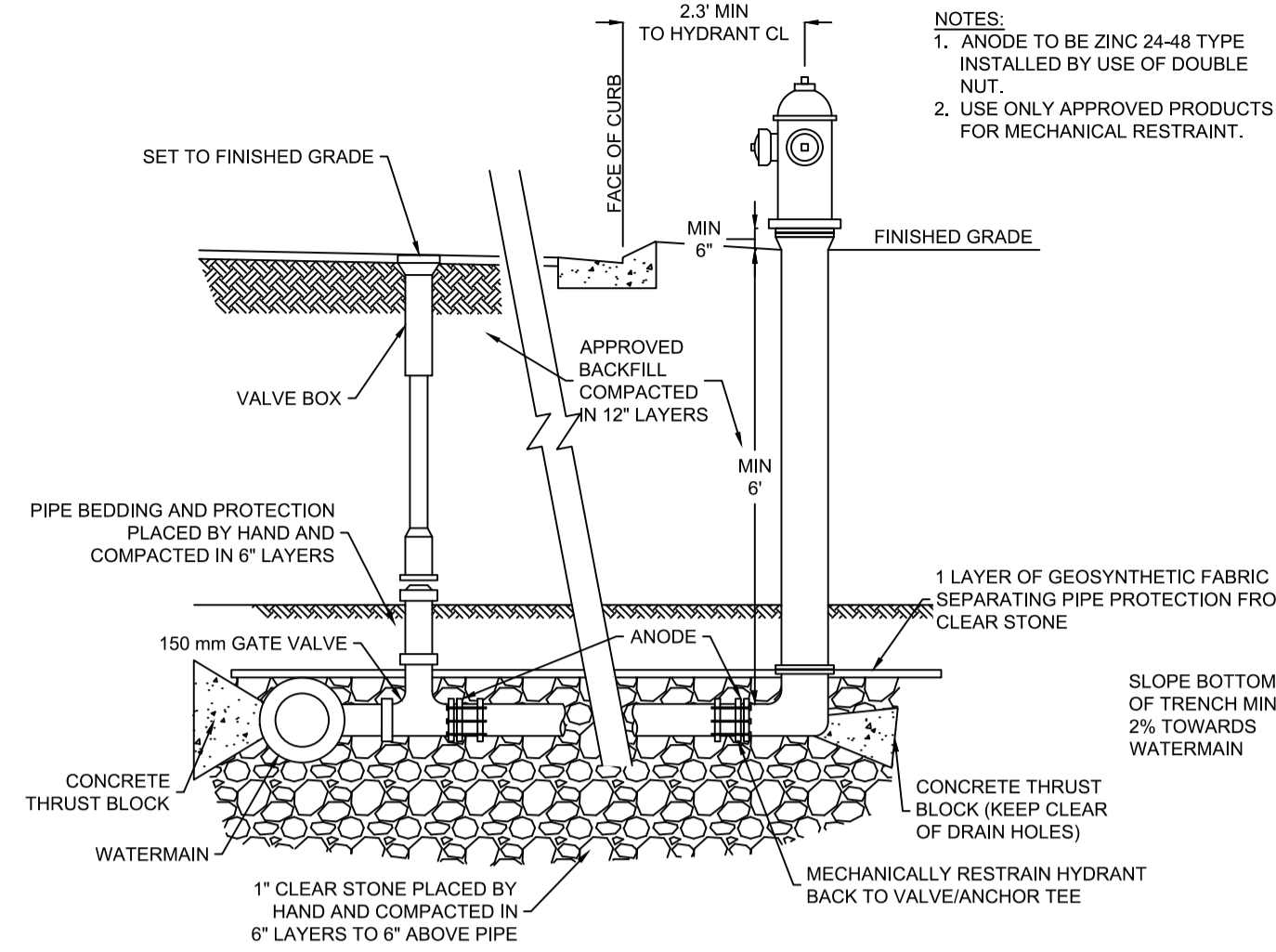


GENERAL CONSTRUCTION NOTES:

- SAFETY IS PARAMOUNT AND THE CONTRACTOR MUST USE SAFE WORK PRACTICES IN ACCORDANCE WITH THE NOVA SCOTIA OCCUPATIONAL HEALTH AND SAFETY ACT.
- MDWH'S MUNICIPAL SERVICES SPECIFICATION MANUAL SHALL FORM PART OF THE DESIGN AND SHALL BE ADHERED TO AND THE CONTRACTOR SHALL HAVE A COPY OF THE MANUAL ON SITE DURING CONSTRUCTION.
- ALL WORKS TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR MUNICIPAL SERVICES" PREPARED JOINTLY BY THE NOVA SCOTIA ROADBUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA (CURRENT EDITION).
- ALL WORKS TO BE IN ACCORDANCE WITH REQUIREMENTS OF ALL PERMITS AND REGULATIONS AS ISSUED BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- CONTRACTOR TO NOTIFY DESIGNPOINT AND THE MUNICIPALITY OF THE DISTRICT OF WEST HANTS REGARDING CONSTRUCTION SCHEDULING PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILT LADEN RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURES MAY BE OBTAINED FROM 'EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES' (CURRENT EDITION), BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- ALL DISTURBED AREAS NOT STABILIZED BY GRAVEL, ASPHALT, CONCRETE, OR SOD ARE TO BE STABILIZED WITH HYDROSEED AND HAY. HYDROSEED AREAS THAT DO NOT SHOW ACTIVE GROWTH WITHIN THE FIRST GROWING SEASON TO BE RE-STABILIZED.
- MATERIALS SHALL NOT BE SUBSTITUTED UNLESS PRIOR APPROVAL IS PROVIDED BY THE ENGINEER.
- SHOP DRAWINGS TO BE PROVIDED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS AND TO COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
- LOCATIONS OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING INFRASTRUCTURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR TO ALLOW A 1 WEEK REVIEW PERIOD BY THE ENGINEER.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SUCH AS NOVA SCOTIA POWER, BELL ALIANT, EASTLINK, AND THE MUNICIPALITY. CONTRACTOR TO COORDINATE ALL WORK WITH THE NECESSARY UTILITIES.
- PERMISSION FROM LANDOWNER(S) REQUIRED TO WORK ON PRIVATE PROPERTY.
- ALL ELEVATIONS ARE IMPERIAL AND GEODETIC. TOPOGRAPHICAL SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTRACTOR TO CONTACT DESIGNPOINT FOR CONSTRUCTION LAYOUT CONTROL INFORMATION 2 WEEKS PRIOR TO CONSTRUCTION.
- ALL EARTHWORK, TRENCH WORK, PIPE BEDDING, AND SURFACE TREATMENT TO BE REVIEWED AND CERTIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- DRAWINGS SUBJECT TO CONSTRUCTION APPROVAL BY THE APPLICABLE APPROVAL AGENCIES (i.e. THE MUNICIPALITY AND NOVA SCOTIA DEPARTMENT OF ENVIRONMENT) PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES REQUIRED FOR THE PROJECT.
- INSULATION TO BE 50 mm THICK HI40 RIGID STYROFOAM (ROAD AND TRAFFIC RATED).
- CONTRACTOR MAY REQUEST GRADE ADJUSTMENTS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER AND APPLICABLE APPROVAL AGENCIES. CONTRACTOR RESPONSIBLE FOR COSTS ASSOCIATED WITH DRAWING REVISIONS AND APPROVALS.
- CATCHBASINS TO BE 42" Ø PRECAST CONCRETE. WATER MAIN TO BE PVC DR18 AND SANITARY MAIN TO BE PVC DR35. STORM TO BE PVC DR35 (8" - 15") AND REINFORCED CONCRETE TO CSA A257.2 (18" AND LARGER).
- ALL STORM AND SANITARY SERVICE LATERALS TO HAVE A MINIMUM SLOPE OF 2%.
- ALL MANHOLE FRAMES AND COVERS ARE TO BE IMP TYPE R60 (IMP R12 FOR PARKS AND EASEMENTS) AND WILL INCLUDE A 2" RISER AS MANUFACTURED BY IMP.

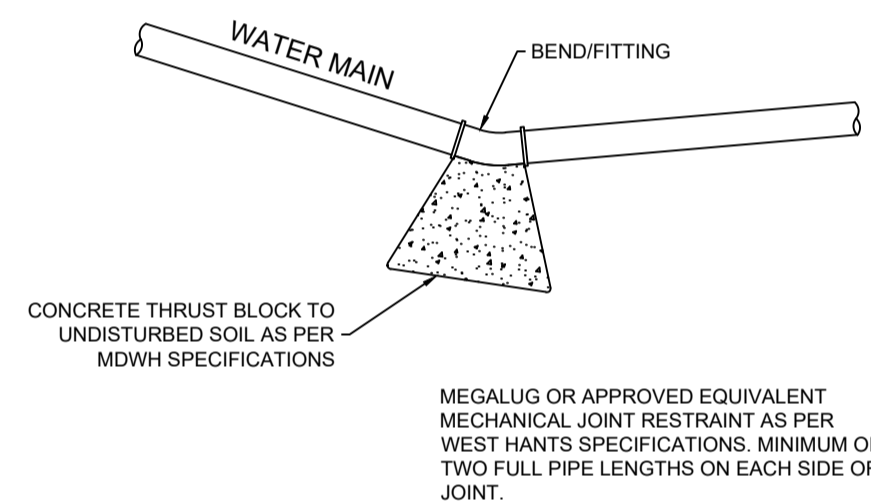
STANDARD HYDRANT INSTALLATION

B  
11



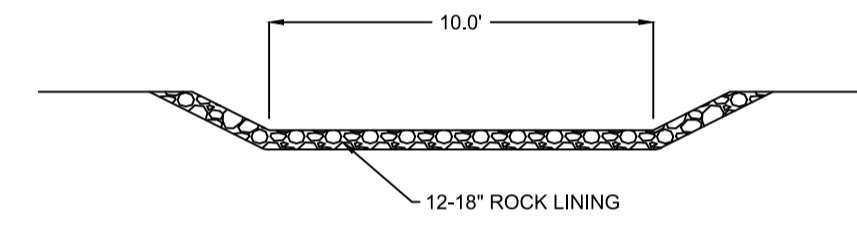
THRUST BLOCK DETAIL (NTS)

C  
11



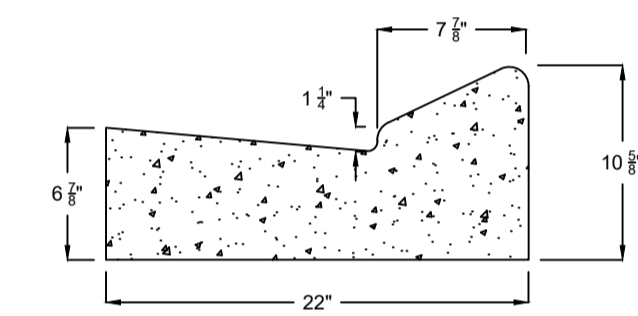
STORMWATER POND EMERGENCY OVERFLOW DETAIL (NTS)

D  
11



ROLLBACK CURB AND GUTTER DETAIL (NTS)

G  
11

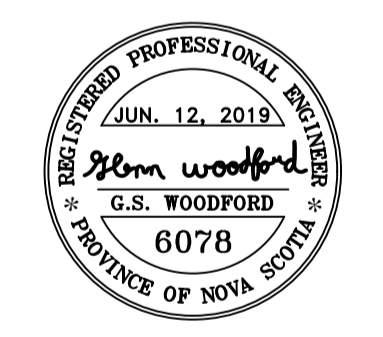
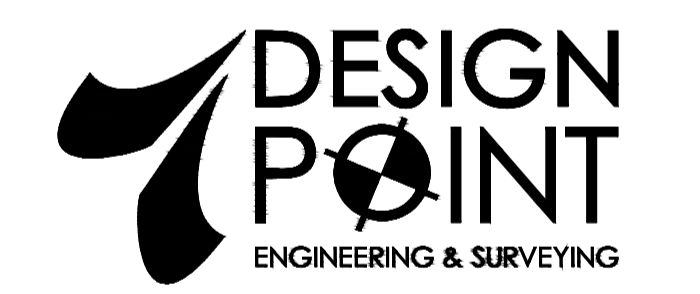


NOTE:  
CURB AND GUTTER SHALL BE PLACED ON AN APPROVED GRANULAR BASE HAVING A MINIMUM DEPTH OF 6"

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CLIENT



PROJECT DESCRIPTION

THE MEADOWS  
PHASE 2  
FALMOUTH, NOVA SCOTIA

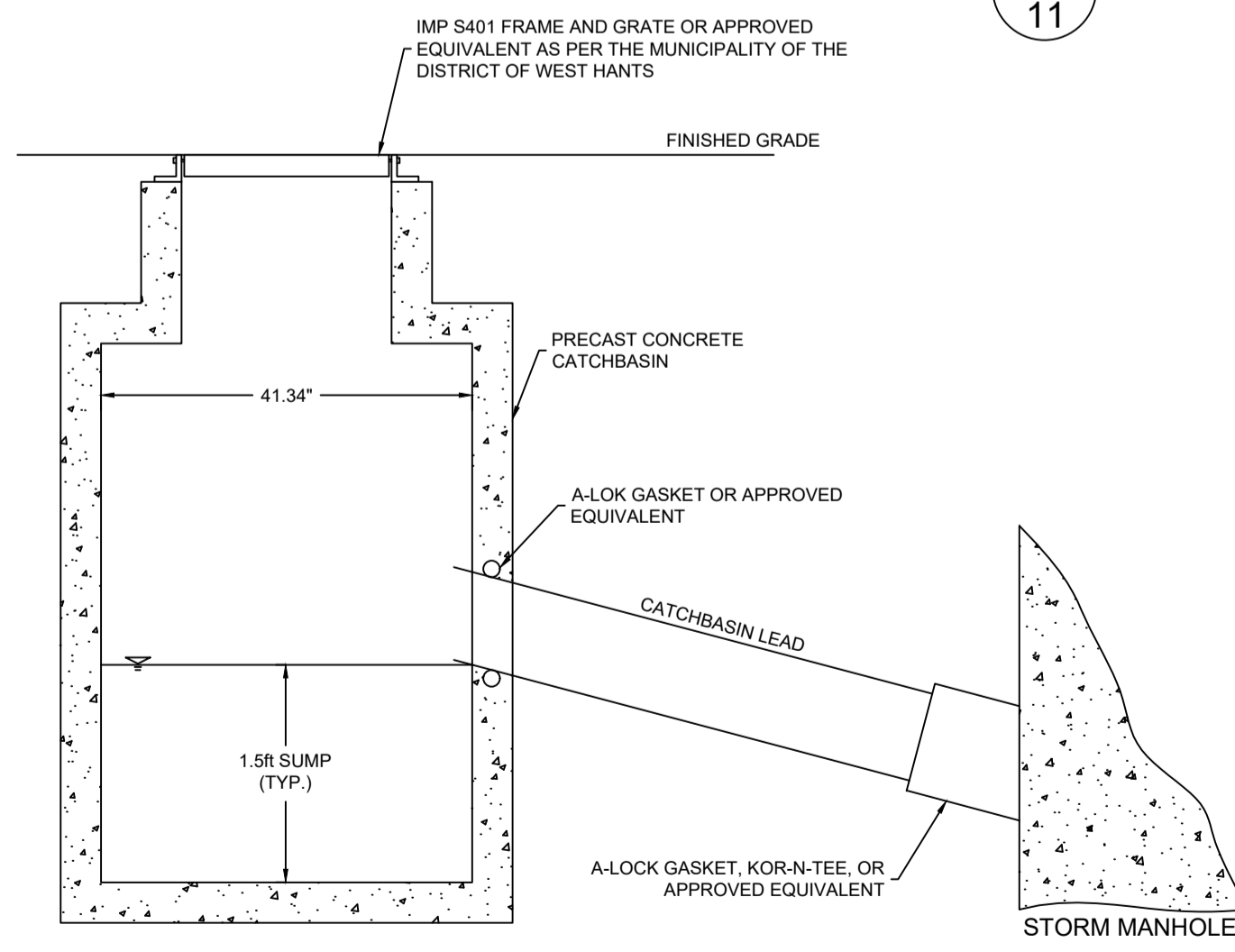
SHEET DESCRIPTION

CONSTRUCTION NOTES  
AND DETAILS

Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	11 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	NTS	14-033CBase.dwg	

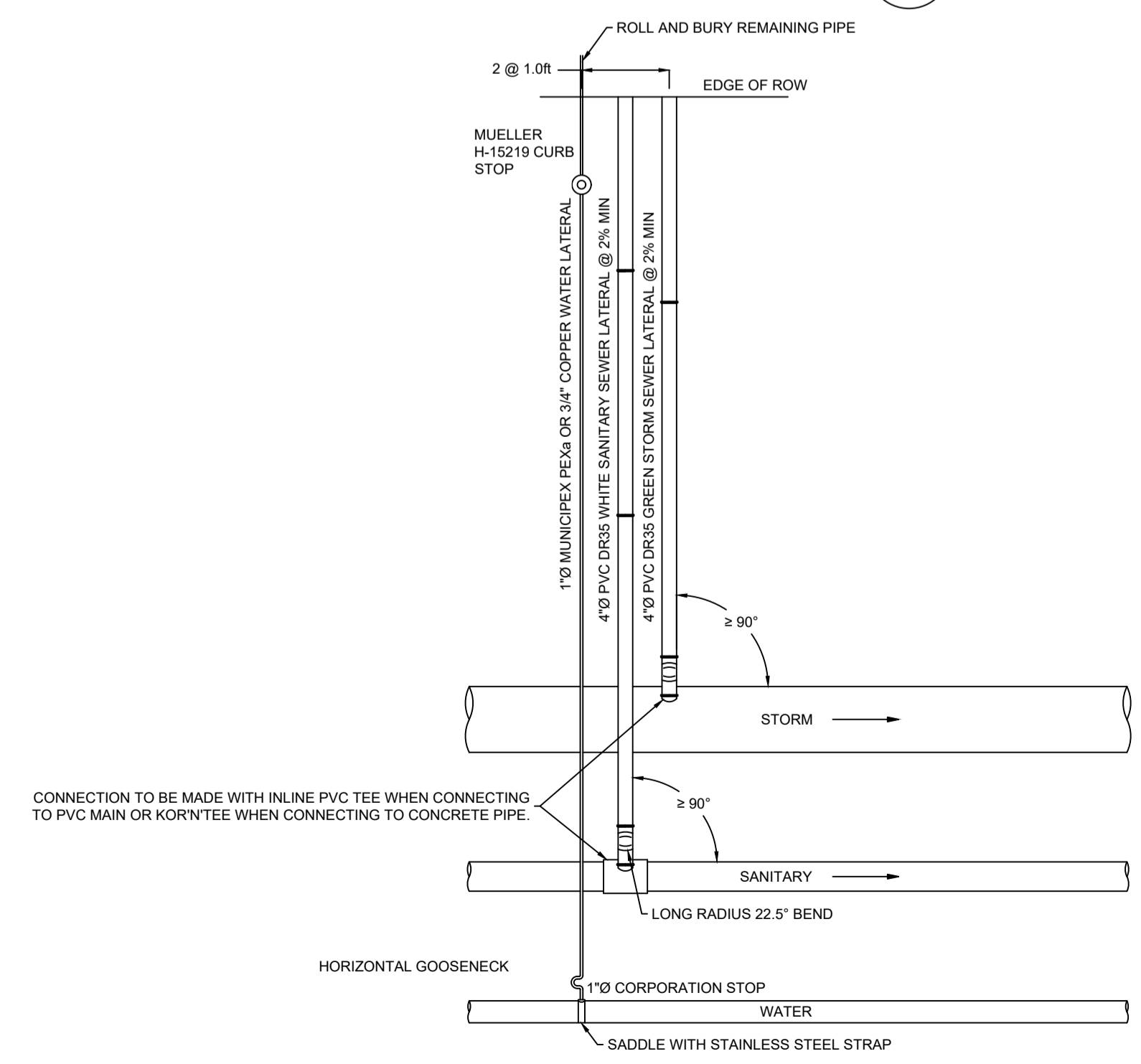
TYPICAL CATCHBASIN DETAIL (NTS)

E  
11



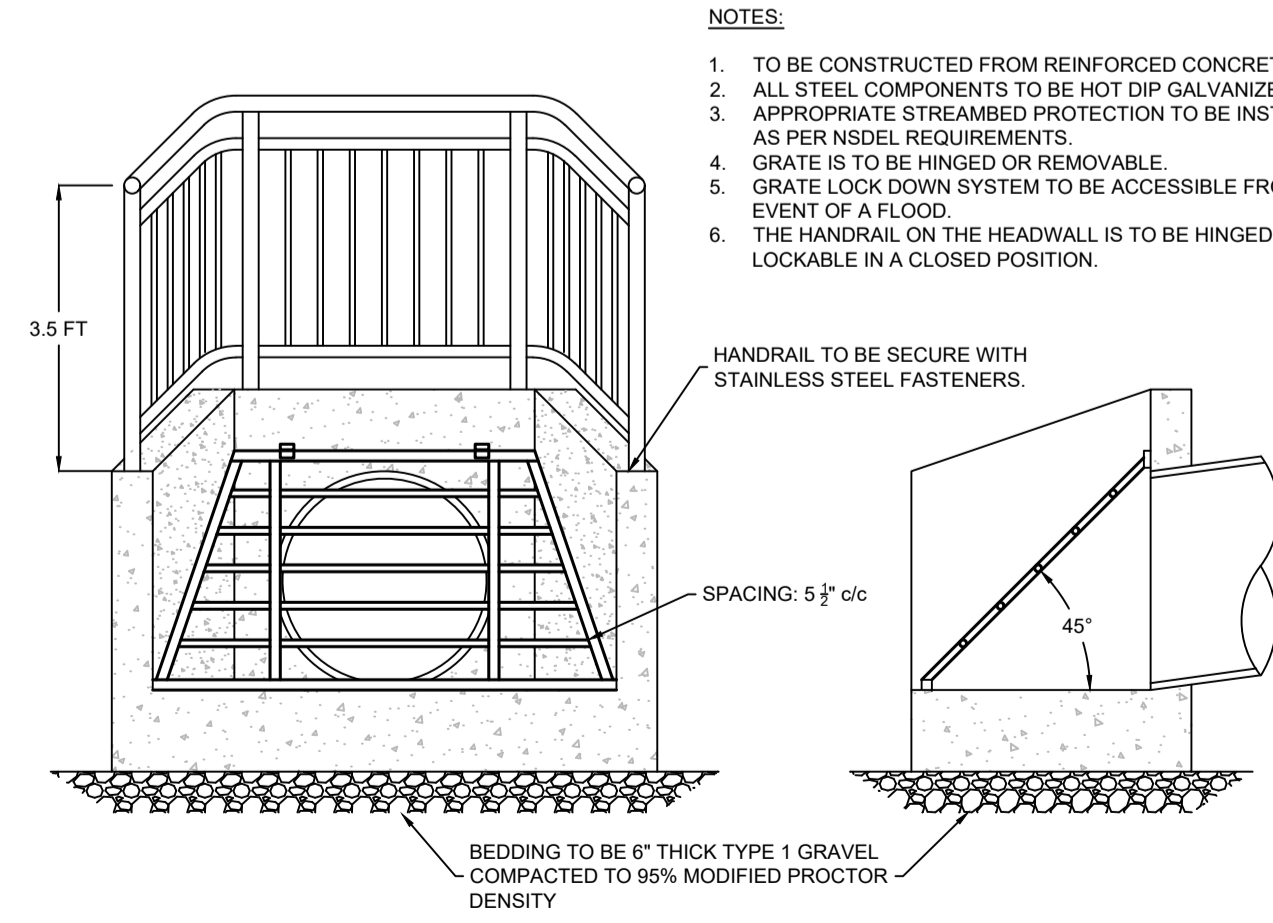
SERVICE LATERAL DETAIL (NTS)  
SEE MDWH DETAIL #10

F  
11



STORM OUTFALL DETAIL (NTS)

F  
11



- NOTES:
- TO BE CONSTRUCTED FROM REINFORCED CONCRETE.
  - ALL STEEL COMPONENTS TO BE HOT DIP GALVANIZED AFTER FABRICATION.
  - APPROPRIATE STREAMBED PROTECTION TO BE INSTALLED DOWNSTREAM AS PER NSDEL REQUIREMENTS.
  - GRATE IS TO BE HINGED OR REMOVABLE.
  - GRATE LOCK DOWN SYSTEM TO BE ACCESSIBLE FROM DRY LAND IN THE EVENT OF A FLOOD.
  - THE HANDRAIL ON THE HEADWALL IS TO BE HINGED OR REMOVABLE, AND LOCKABLE IN A CLOSED POSITION.

April 1, 2020

**Brison Developments**

411 Gabriel Road

Falmouth, Nova Scotia B0P 1L0

Attention: Mitch Brison

**RE: The Meadows Phase 2 – Storm Drainage System**

DesignPoint Project #: 14-033

Further to our discussion, I understand that you are interested in changing the large 75 ft wide R1 lots to semi-detached, townhomes, or small R1 lots. The changes apply to The Meadows Phase 2 including Thistle Street, the extension of Clover Lane, and Short Drive.

The storm drainage system as designed in my latest drawing package for this project (dated June 12, 2019, Rev 3) is adequate to accommodate these changes to the development.

For reference, please refer to the Storm Drainage / Environmental Protection Plan, Sheet 7 of 11, Revision 3, dated June 12, 2019 (included with this letter).

If you have any questions, please feel free to contact me.

Thank you,

**DesignPoint Engineering & Surveying Ltd.**

A handwritten signature in blue ink that reads "Glenn Woodford".

Glenn Woodford, P.Eng.

Senior Engineer & Principal

GSW/alc

Enclosures: Storm Drainage / Environmental Protection Plan

# GENERAL EROSION AND SEDIMENT CONTROL NOTES

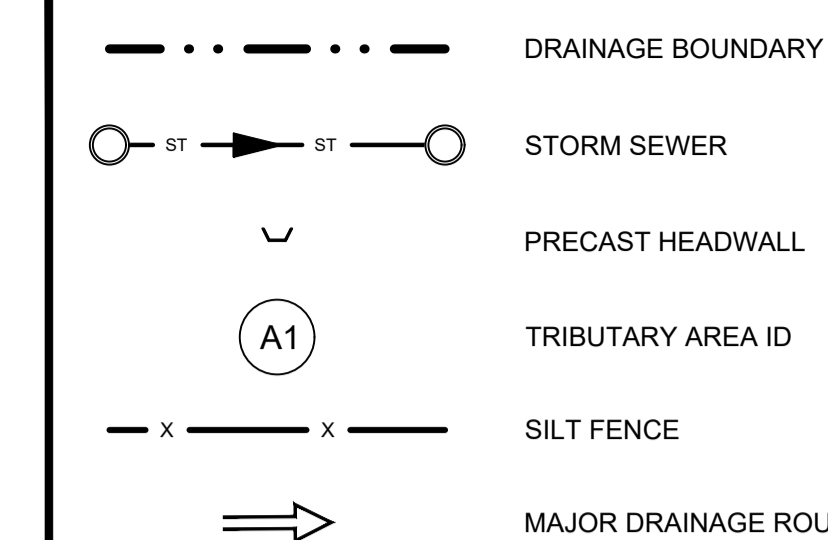
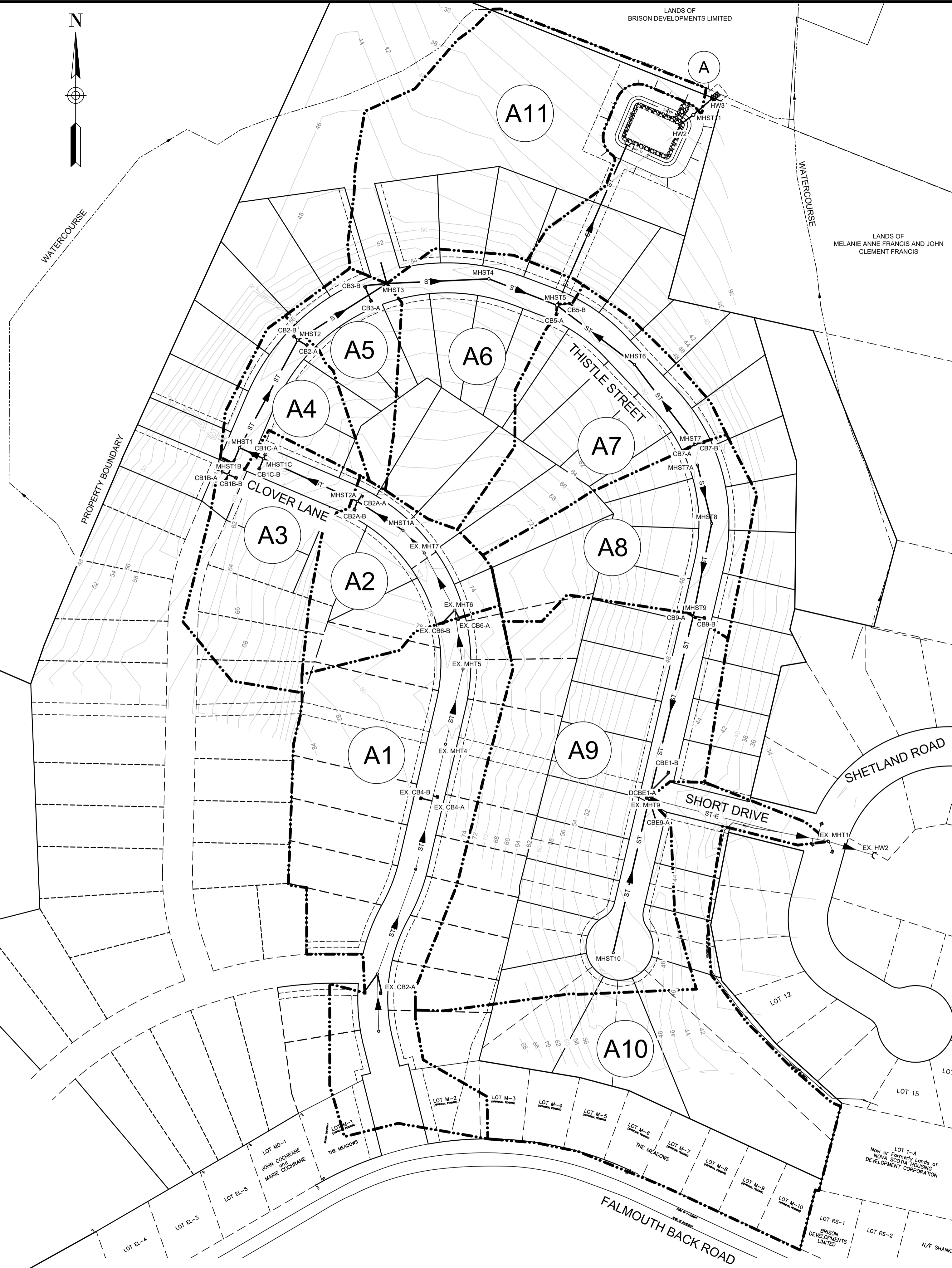
- EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
- ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF ENVIRONMENT REQUIREMENTS.
- CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS ([https://weather.gc.ca/canada\\_e.html](https://weather.gc.ca/canada_e.html)).
- CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
- TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
- CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
- EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
- CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
- SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
- SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
- UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
- TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
- ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
- STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.)
- SITE ACTIVITY TO ADHERE TO REQUIREMENTS OF HALIFAX REGIONAL MUNICIPALITY TOPSOIL BY-LAW.
- ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
- SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.



Catchment	Area (ac) ±	Catchment	Area (ac) ±
A1	4.75	A7	2.10
A2	1.47	A8	2.06
A3	1.75	A9	5.48
A4	0.81	A10	4.80
A5	0.83	A11	3.66
A6	2.16	Total	29.87

Storm	Flow to Point A (cfs)	
	Pre-Development	Post-Development
5 Year	6.20	5.87
10 Year	9.49	7.59
25 Year	14.7	11.72
50 Year	18.66	15.18
100 Year	22.84	18.95

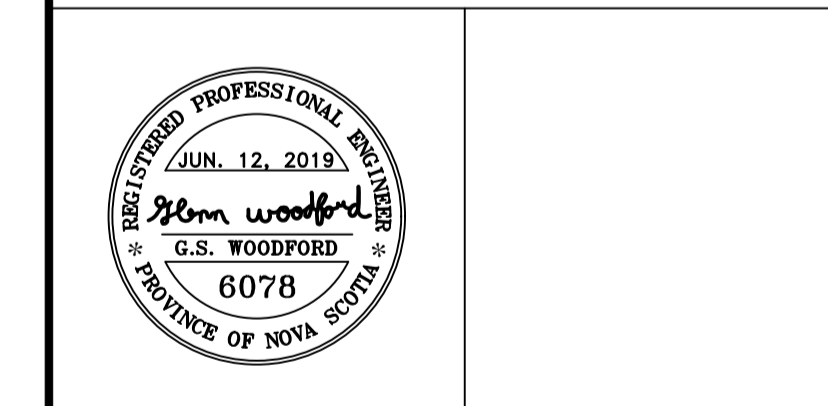
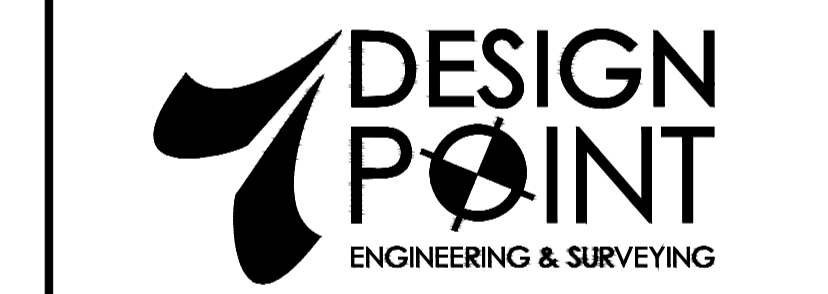
Minor Piped Storm System Drainage Analysis - SCS Method (10 Year Return)										
Upstream MH	Downstream MH	Tributary Area	Tributary Area +/- (Ac)	Qd - Design Flow (cfs)	Pipe Size (in)	Pipe Slope (%)	Qc - Pipe Capacity (cfs)	Qd/Qc	Depth of Flow (in)	Max. Velocity (ft/s)
EX 7	1A	A1	4.75	7.55	18	1.50	12.89	0.59	9.8	7.60
1A	2A	A1	4.75	7.58	18	3.25	18.92	0.40	7.8	10.13
2A	1	A1-A2	6.23	10.29	18	4.95	23.38	0.44	8.3	12.81
1	2	A1-A3	7.98	12.63	21	0.70	13.26	0.95	15.6	6.32
2	3	A1-A4	8.78	14.02	24	0.70	18.91	0.74	14.4	6.61
3	4	A1-A5	9.61	15.36	24	0.80	20.20	0.76	14.4	7.11
4	5	A1-A5	9.61	15.36	24	1.00	22.65	0.68	13.2	7.75
6	5	A7	2.10	3.88	15	0.50	4.58	0.85	10.0	4.24
7	6	A7	2.10	3.95	15	0.50	4.57	0.86	10.6	4.25
5	Outfall	A1-A7	13.87	22.60	30	0.75	35.44	0.64	15.7	7.70
8	9	-	-	0.00	12	1.00	3.57	0.00	0.0	0.00
9	EX 9	A8	2.06	3.83	15	1.10	6.78	0.57	7.9	5.78
10	EX 9	-	-	0.00	12	1.85	4.85	0.00	0.0	0.00
EX 9	EX 1	A8-A9	7.54	13.83	24	0.88	18.59	0.74	15.1	6.57
EX 1	Outfall	A8-A10	12.34	22.55	30	0.50	29.00	0.78	19.4	6.53



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PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**STORM DRAINAGE /  
ENVIRONMENTAL  
PROTECTION PLAN**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 7 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=100' H	Filename 14-033CBase.dwg	



## WEST HANTS REGIONAL MUNICIPALITY REPORT

Information <input type="checkbox"/>	Recommendation X <input checked="" type="checkbox"/>	Decision Request <input type="checkbox"/>	Councillor Activity <input type="checkbox"/>
--------------------------------------	------------------------------------------------------	-------------------------------------------	----------------------------------------------

**To:** Members of Planning Advisory Committee

**Submitted by:** \_\_\_\_\_  
Saira Shah, Planner

**Date:** 2021-03-11

**Subject:** File 19-05 Meadows Development

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### LEGISLATIVE AUTHORITY

Municipal Government Act Section 229 and 230.

### RECOMMENDATION

In order to allow the requested development and discharge the current development agreement, staff recommends that the Planning Advisory Committee (PAC) forward a positive recommendation by passing the following motion:

PAC recommends that Council give First Reading and hold a Public Hearing to consider entering into a development agreement to allow two-unit residential uses at PID 45371879, 45383379, 45371887, and 45383957, Falmouth, in a manner substantively the same as the draft set out in Appendix C of the report to the Planning Advisory Committee dated March 11, 2021, taking note that this development agreement will discharge and replace the development agreement for PID 45371879 recorded at the Registry of Deeds on September 27, 2007 as document 88923751.

### BACKGROUND

An initial application was received on December 13, 2019 from Brison Developments Limited to permit two-unit residential development at PID 45371879, 45383379, 45371887, and 45383957, Falmouth, West Hants. All necessary material for the application was submitted on July 14, 2020.

On December 11, 2020 the applicant requested that staff consider three and four-unit dwellings in addition to the two-unit dwellings requested on December 13, 2019.

On February 23, 2021 the applicant withdrew their request for three and four-unit dwellings and asked that staff only consider the initial application request for two-unit

residential development. The change in application is further explained in the "Applicant Requests" section of this report.

The combined properties are approximately 49 acres and are all owned by Brison Developments Limited. There is a registered development agreement between Meadows Development Limited (former owners) and the Municipality on PID 45371887 in August 2007 to permit eight (8) semi-detached dwellings. Brison Developments Limited wishes to discharge that agreement as part of this application to ensure the same requirements apply to the entire development site.

## **DISCUSSION**

All four (4) properties are designated Residential in the Falmouth Growth Centre on the Generalized Future Land Use Map of the West Hants Municipal Planning Strategy (WHMPS) (Figure 1).

The properties are all zoned Single Unit Residential (R-1) on the Zoning Map of the West Hants Land Use By-law (WHLUB) (Figure 2). The properties are bound on almost all sides by properties zoned Single Unit Residential (R-1) except for PID 45371887 which neighbours a property zoned institutional (I) to the east and PID 45371879 which neighbours a property zoned Agricultural Priority 3 (Ar-3) to the north.

Only single unit dwellings, accessory apartments, and existing manufactured homes are permitted in the Single Unit Residential (R-1) zone. The applicant would like the opportunity to develop two-unit dwellings which are not permitted as-of-right.

Section 6.1 of the WHLUB, Development Agreements, states that *the following developments may be considered only by development agreement in accordance with the Municipal Government Act and the Municipal Planning Strategy:*

- (d) *comprehensively designed multiple residential development consisting of a mix of single unit, semi-detached, duplex and townhouse dwellings in the Falmouth Growth Centre in accordance with Policy 5.4.4 of the Municipal Planning Strategy;*

A semi-detached dwelling is defined in the WHLUB as *a building that is divided vertically into two dwelling units, each of which has an independent entrance*. A duplex is defined in the WHLUB as *a building that is divided horizontally into two dwelling units, each of which has an independent entrance directly or through a common vestibule*. The current definitions for semi-detached and duplex are specific in terms of construction type and staff have discussed adopting more general definitions for two-unit dwellings as part of the plan review with PAC. Staff have added the two-unit dwelling definition accepted by the PAC for the plan review to the agreement and use the term two-unit dwelling instead of semi-detached or duplex in the agreement. This will give the applicant more flexibility in terms of construction type while still restricting the number of units per building to two (2) meeting the overall intention of Council in Section 6.1 (d) of the WHLUB.

## **Development Agreements**

A development agreement is a legal contract between the Municipality and a property owner that describes the type of development permitted on a property. Development agreements provide an opportunity for Council to exercise a greater degree of control over aspects of a development proposal and allow Council to consider uses that would

otherwise not be permitted in the underlying zone. A development agreement is binding upon a property until the agreement is discharged by Council.

### **Applicant Requests**

The applicant is proposing a mix of single and two-unit dwellings built over three phases: Phase 2A, 2B and 3. The draft development agreement, including the concept plan, can be found in Appendix C. Lot dimensions and street layout are established in the concept plan for Phase 2A and Phase 2B. However, the applicant has not provided those details for Phase 3 and wishes to have flexibility in terms of the layout. The agreement enables the applicant to use any lot configuration or design elements from Phase 2A and 2B in Phase 3 and the lot requirements are outlined in the text of the agreement. Any new streets not shown on the concept plan must meet the requirements of the Municipal Services Specifications Manual and the West Hants Subdivision By-law.

The applicant wishes to have flexibility in terms of the types of dwelling units permitted in Phase 3 to meet changing market demand. This included a request to list "dwelling types" as a non-substantive amendment to the development agreement. A non-substantive amendment would not require a Public Hearing by Council. Staff determined an amendment to add additional "dwelling types" to the list of uses permitted would have a major impact on the community and should not be considered a non-substantive amendment. However, staff have discussed alternative options to create flexibility for the applicant. The criteria that enables Council to consider this development agreement specifies that a minimum of 30 percent of the development must be single unit dwellings and the density of development must be limited to four and a half (4.5) dwelling units per acre. These requirements are included in the development agreement to reflect Council's intention for the area. The concept plan states a maximum of 75 units can be constructed in Phase 3. However, the specific number of two-unit dwellings permitted has not been specified in the concept plan or text of the development agreement for Phase 3 which will create flexibility for the applicant.

Policy 5.4.4 which enables Council to consider this application by development agreement includes criteria which requires the property (or development site) to have frontage on an arterial or collector street and be at least 25 acres. Staff told the applicant if they sell the property that provides the frontage or subdivide and sell several properties reducing the overall development site to under 25 acres future amendment applications for the agreement may not be recommended by staff as the development site would no longer meet the criteria. In December 2020, the applicant requested the addition of three and four-unit dwellings to be considered for Phase 3 of the development to avoid a future amendment application for the agreement. Staff sent out additional inquiries to receive comments on the criteria as the addition of three and four-unit dwellings was considered a major change to the application. The Department of Transportation and Infrastructure Renewal (DTIR) requested that a traffic impact study (TIS) be provided before a development permit could be issued. This was different than DTIR's initial request based on the initial application for two-unit dwellings. In the first request for comment DTIR asked for a traffic impact study after the 100<sup>th</sup> residential permit had been issued or any development commenced in Phase 3. When staff asked for clarification as the proposed maximum number of units permit had not changed DTIR stated "*The TIS is triggered by the number of trips generated as opposed to the actual number of structures. With the increased population density*

*(from single and two-unit to the addition of three and four-unit dwellings), it is anticipated that the trip generation threshold will be met sooner than at 100 structures.”* The applicant was made aware of this requirement and on February 23, 2021 they withdrew their request for three and four-unit dwellings to proceed with the initial request for two-unit dwellings as the applicant felt the additional requirements from DTIR would place an unnecessary burden on them.

The applicant requested a reduced minimum lot frontage requirement for single-unit dwellings of 50 ft. and reduced side yard requirements of 6 ft. Staff have no concerns with these reductions as it will enable compact development that better utilizes municipal services and National Building Code requirements would still apply.

The applicant has entered into two (2) parkland agreements with the Municipality for development in the surrounding area. As a large area of parkland is dedicated in the agreements, staff have enabled the Development Officer to consider the Public Parkland outlined in the parkland agreements on August 22, 2011 and April 10, 2012 as part of the parkland contribution requirement for this development. If additional parkland is required to meet the requirements of the Subdivision By-law and the agreement the Development Officer can request additional land.

Sections of the development agreement related to storm drainage and ownership of the detention pond required extensive consultation with the Director of Public Works, the applicant, and the Chief Administrative Officer. Staff have determined the requirements of the Subdivision By-law and the Municipal Services Specifications Manual for West Hants are sufficient. However, if the owner wishes to maintain ownership of the detention pond, the owner will need to submit confirmation of performance on an annual basis and fix any issues that arise.

### **WHMPS Specific Criteria**

Policy 5.4.4 of the WHMPS establishes Council’s intention to consider proposals for comprehensively designed multiple residential developments in the Falmouth Growth Centre by development agreement. The above policy establishes the criteria to be considered by Council, which are examined in detail in Appendix A. In summary, the criteria are met since:

- the development agreement has specific stipulations for density and ensures that a minimum of 30 percent of the total number of dwelling units will be single unit dwellings;
- a traffic impact study will be required before the 100<sup>th</sup> residential unit development permit can be issued or before any development can start in Phase 3 and all work required by the recommendations in the traffic impact study must be completed;
- the reduced setback requirements will enable a planned compact community that makes efficient use of streets and municipal infrastructure; and
- the stormwater management plan is considered satisfactory by the Municipal Engineer.

### **WHMPS General Criteria**

Policy 16.3.1 of the WHMPS states general criteria for any development agreement considered in West Hants. These criteria are examined in detail in Appendix B. In summary:

- the proposal is not premature or inappropriate for the area;
- no municipal costs related to the proposal are anticipated; and
- the Fire Chief, Manager of Building and Fire Inspections Services, Director of Public Works and Department of Transportation and Infrastructure Renewal have no major concerns which have not been address in the draft development agreement.

### **Request for Discharge**

West Hants entered into a development agreement with Meadows Development Limited in 2007 to permit eight (8) semi-detached dwellings on PID 45371887. To include this property in the new agreement, staff recommend discharging the current agreement.

Section 229 (2) of the MGA states *A council may discharge a development agreement, in whole or in part, in accordance with the terms of the agreement or with the concurrence of the property owner.*

The applicant has indicated they agree to a discharge of the previous agreement. Clause 5.7 (b) of the draft development agreement would discharge the existing development agreement for PID 45371887.

### **Municipal Climate Change Action Plan**

Based on the Municipal Climate Change Action Plan (MCCAP) Inland Flooding and Coastal Flooding maps there may be a risk of inland and coastal flooding in close vicinity to the properties but not directly on the properties as shown in Figure 3 and 4. The Falmouth Stormwater Management Plan (Falmouth SWMP) shows similar flooding potential downstream from the development site (Figure 5). The Municipal Engineer is satisfied that the stormwater management ponds will reduce the post-development flows by 10% to 23% compared to the pre-development flows to the downstream area based on the stormwater model presented.

### **NEXT STEPS**

As noted above, the proposed development has been considered within the context of both the specific and general policies of the WHMPS and is consistent with the intent, objectives and policies of the WHMPS. The development meets the specific and general criteria for development agreements as outlined in the WHMPS. As a result, it is reasonable to consider approving the development agreement to allow two-unit dwellings at PID 45371879, 45383379, 45371887, and 45383957 in Falmouth.

#### **Approval Process**

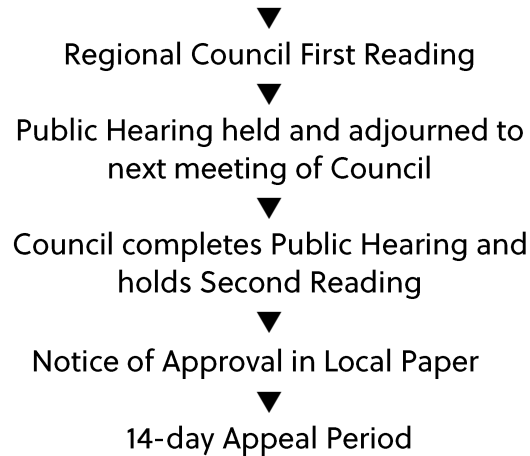
Staff Review



Public Information Meeting



Planning Advisory Committee receives staff report and PIM Notes  
Planning Advisory Committee Review and Recommendation



### **FINANCIAL IMPLICATIONS**

There would be an increase in households using water, sewer, and waste disposal services in the area. However, the increased services are expected to be paid for, at least in part, by new residents moving to the development.

### **ALTERNATIVES**

In response to the application, PAC may recommend that Council:

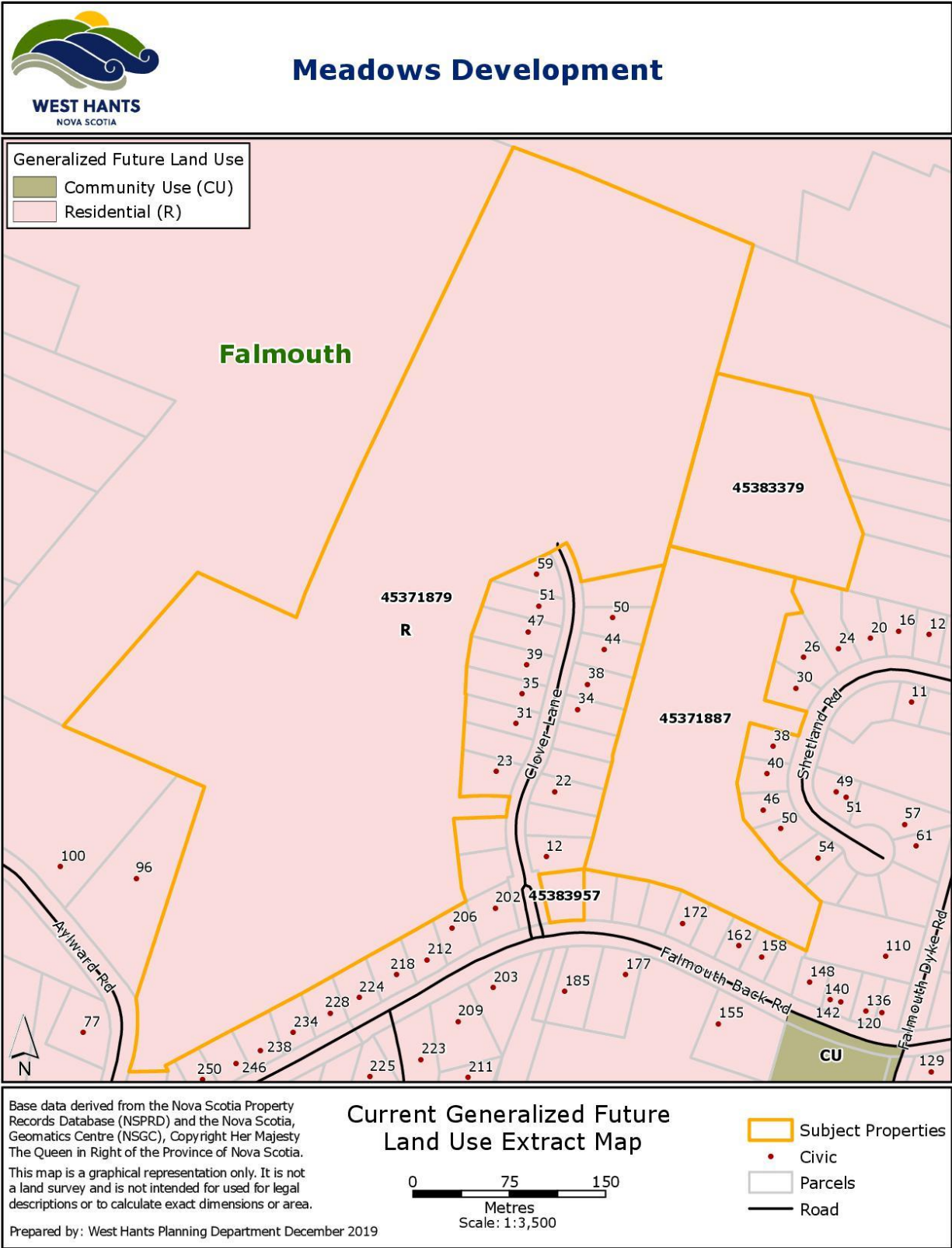
- hold First Reading and authorize a Public Hearing to approve the Development Agreement as drafted or as specifically revised by direction of PAC;
- provide alternative direction such as requesting further information on a specific topic.

### **ATTACHMENTS**

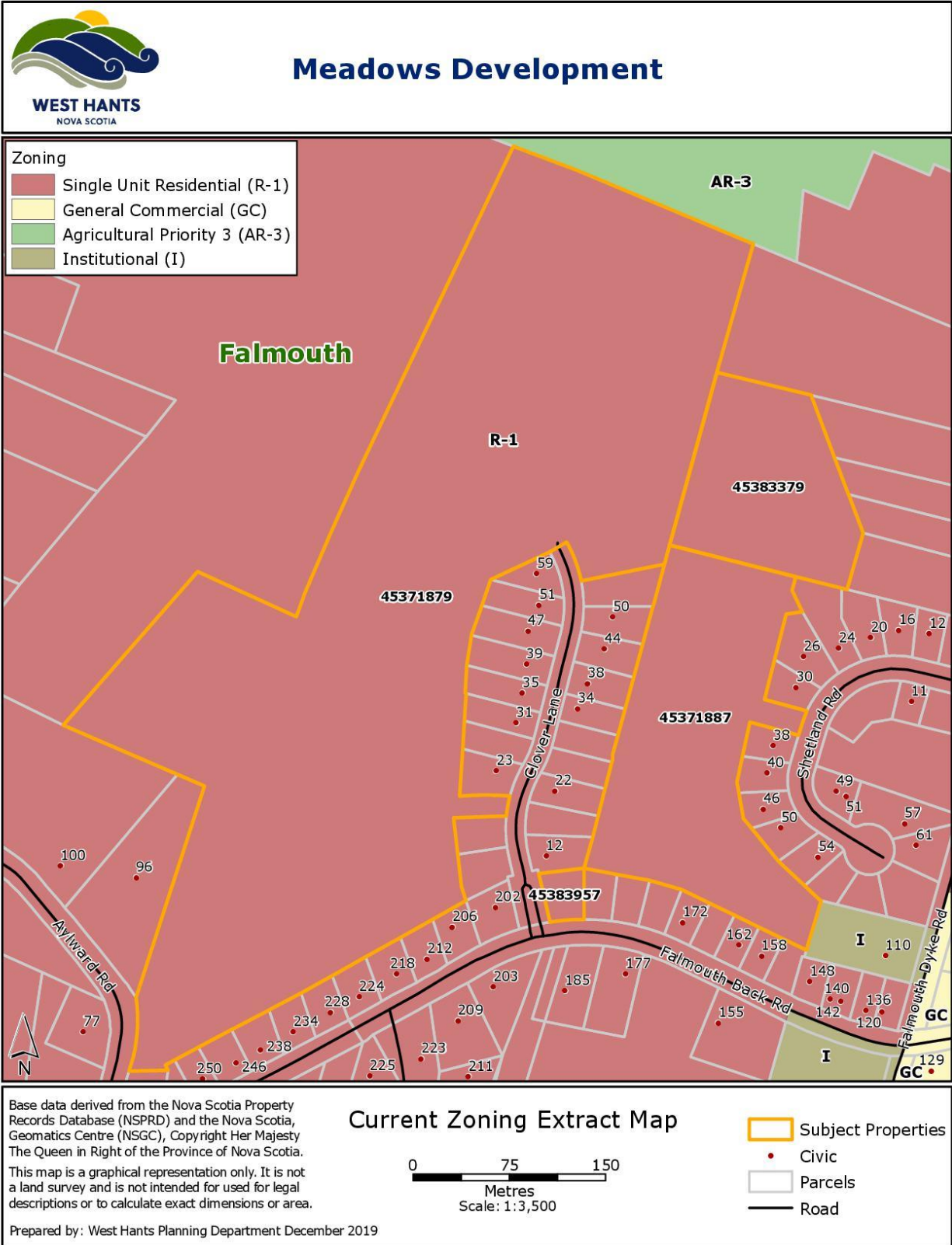
- Figure 1 Generalized Future Land Use Map
- Figure 2 Existing Zoning Map
- Figure 3 MCCAP Inland Flooding Map (Falmouth)
- Figure 4 MCCAP Coastal Flooding Map (Falmouth)
- Figure 5 Falmouth SWMP 1 In 100 Year Flooding Extent with Climate Change Map
- Appendix A Specific Criteria for Development Agreement
- Appendix B General Criteria for Development Agreement
- Appendix C Draft Development Agreement

Report Reviewed by: \_\_\_\_\_  
Madelyn LeMay, Director of Planning and Development

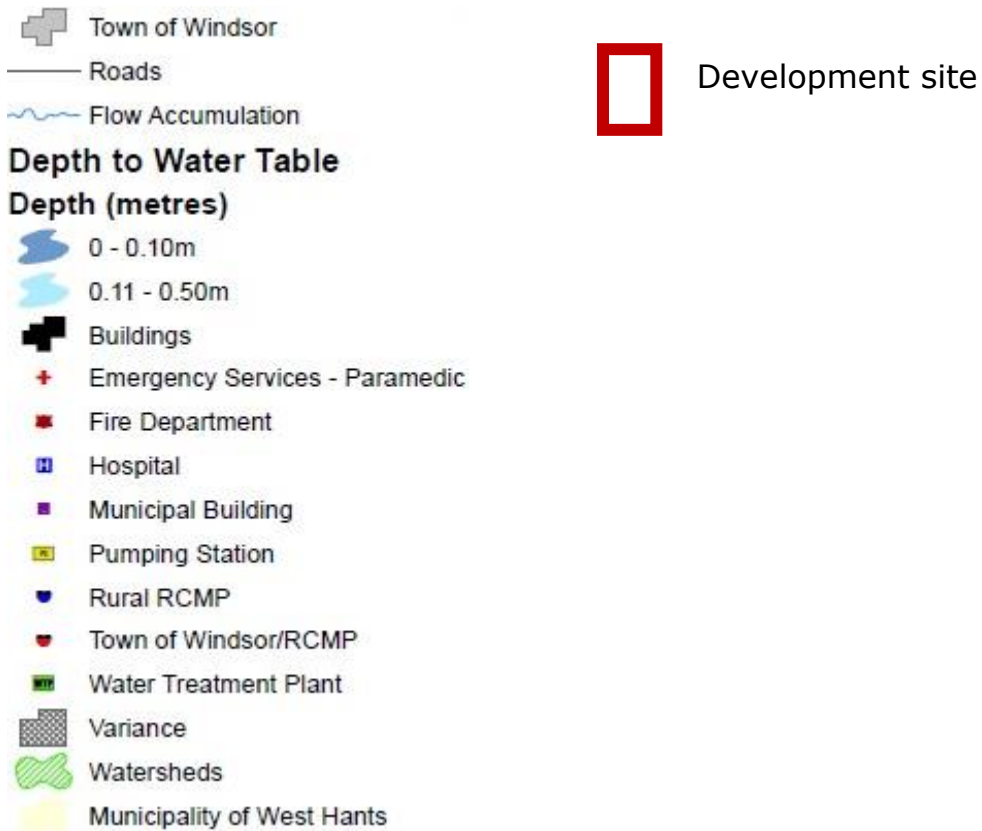
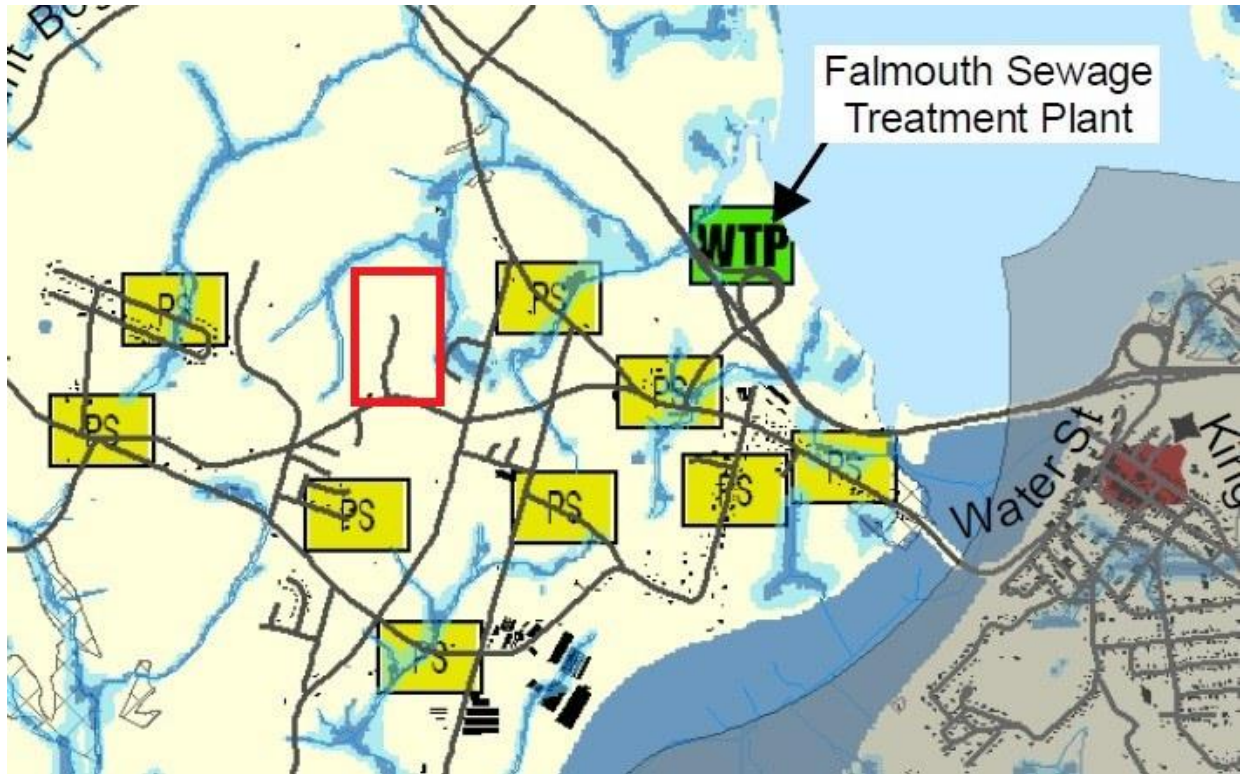
**FIGURE 1  
GENERALIZED FUTURE LAND USE MAP**



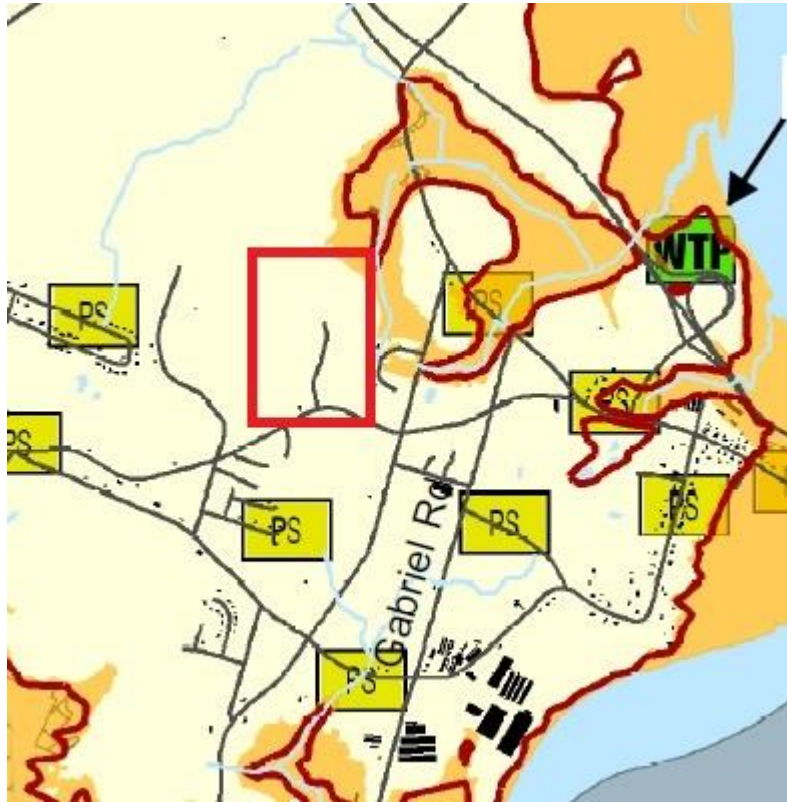
**FIGURE 2  
EXISTING ZONING MAP**



**FIGURE 3  
MCCAP INLAND FLOODING MAP (FALMOUTH)**





**FIGURE 4  
MCCAP COASTAL FLOODING MAP (FALMOUTH)**



**FIGURE 5**  
**Falmouth SWMP 1 IN 100 YEAR FLOODING EXTENT**  
**WITH CLIMATE CHANGE MAP**



**Legend**

-  1 in 100 Year Flooding Extent with Additional Detention Pond
-  1 in 100 Year Flooding Extent without Additional Detention Pond

 Development site

**APPENDIX A**  
**SPECIFIC CRITERIA FOR DEVELOPMENT AGREEMENT**

**Policy 5.4.4** *It shall be the policy of Council to consider proposals for comprehensively designed multiple residential developments in the Falmouth Growth Centre by development agreement subject to the following:*

<b>CRITERIA</b>	<b>COMMENT</b>
<i>(a) the development consists of a mix of housing types where:</i>	
<i>(i) a minimum of 30 percent of the total number of dwelling units shall be single unit dwellings; and</i>	Clause 2.2 (a) of the development agreement addresses this requirement.
<i>(ii) the remaining dwelling units may include any combination of townhouse dwellings along with semi-detached or duplex dwellings, provided that not more than four dwelling units shall be permitted per building or attached structure;</i>	In Section 2.1 Uses of the development agreement two-unit dwellings are the largest dwellings permitted which means no building will have more than two (2) dwelling units meeting the intent of this criterion.
<i>(b) the property:</i>	
<i>(i) is at least 25 acres (10.12 ha) in size;</i>	As the development site is a combination of multiple properties that will be subdivided into individual residential lots, staff are not requiring the applicant to consolidate the four (4) properties into one (1) property and are considering the development site the "property" for policy criteria. The development site is 49 acres.
<i>(ii) is serviced, or is capable of being serviced, by both municipal water and sewer; and (Amendment WHMPS 14-01 Effective January 22, 2015)</i>	The Director of Public Works has confirmed that portions of the development site are currently serviced with potable water and central sewer services and the remaining portions of the development site are capable of being serviced.
<i>(iii) has frontage on an arterial or collector street designated on the Transportation Map (Map 2);</i>	The development site has frontage on an arterial street (Falmouth Back Road) designated on the Transportation Map. This criterion does not specify that direct access to an arterial street is necessary. The development site will have access to Falmouth Back Road though Clover Lane.
<i>(c) the development exhibits comprehensive site planning and design with an emphasis on the conservation of significant natural</i>	The concept plan exhibits comprehensive planning and design with conservation of existing watercourses. Staff considered the landscaping and buffering

<p><i>features of the site, provision of open space and recreational areas, and landscaping and buffering to screen views of the development from existing developed properties;</i></p>	<p>requirements based on potential land use conflicts. Staff will not require landscaping and buffering for the existing agricultural and institutional uses. The concept plan shows significant distance between the proposed residential uses and existing farm operations. PID 45371887 is adjacent to an institutional use (senior's complex) which is surrounded by existing residential uses. The Development Officer has confirmed there have not been any land use conflicts between the existing institutional use and adjacent residential uses. In the Development Officer's experience, they have not witnessed a conflict between any institutional use and residential uses in West Hants. The remainder of the existing developed properties are designated and zoned residential and the proposed development is not expected to create potential land use conflicts.</p>
<p><i>(d) the gross density of the development shall not exceed 4.5 dwelling units per acre; where the gross density exceeds 3 dwelling units per acre, at least 10 percent of the total area of the property shall be dedicated to the Municipality for parkland or open space purposes;</i></p>	<p>Clause 2.2 (d) of the development agreement addresses this requirement.</p>
<p><i>(e) the Multiple Residential (R-3) zone standards are used as a guide for minimum lot area, frontage and yards; however, Council may consider reduced lot requirements where the proposed development is a planned compact community that makes efficient use of streets and municipal infrastructure;</i></p>	<p>The Single Unit Residential (R-1) and Two Unit Residential (R-2) zone requirements in the West Hants Land Use By-law will apply to single and two-unit dwellings with the exception of the minimum lot frontage and side yard requirements for single-unit dwellings which have been reduced at the applicant's request. These reductions will enable a planned compact community that makes efficient use of streets and Municipal infrastructure.</p>
<p><i>(f) existing and proposed streets are adequate to support the development and existing streets will not require major infrastructure improvements as a result of the development; a traffic impact study may be required in accordance with Section 14.6 of this Strategy;</i></p>	<p>DTIR has requested a Traffic Impact Study be submitted before the 100<sup>th</sup> development permit can be issued for a residential unit or before development starts in Phase 3. Section 2.4 of the development agreement addresses this request.</p>

<p><i>(g) the development is compatible with the surrounding area in terms of building height, scale and architectural design;</i></p>	<p>The building height and scale requirements will be the same as the requirements in the Single Unit Residential (R-1) and Two Unit Residential (R-2) zones in Falmouth. There are no architectural design requirements. The applicant has provided photos to illustrate the architectural style of the development.</p>
<p><i>(h) a stormwater management plan shall be submitted, satisfactory to the Municipal Engineer, that shows the development will not adversely affect receiving watercourses and downstream properties;</i></p>	<p>The Municipal Engineer is satisfied with the stormwater management plan submitted and has stated that <i>"the retention ponds will reduce the post-development flows by 10% to 23% less than the pre-developed flows to the downstream area based on the stormwater model presented."</i> In addition, DTIR has reviewed the stormwater management plan in relation to the Provincial road network and find the proposed system to be acceptable.</p>
<p><i>(i) the application is accompanied by:</i></p>	
<p><i>(i) a site plan showing the proposed number, location and type of buildings, lot coverage, parking areas, vehicular and pedestrian circulation systems within the development, access to the site and open space and recreational areas;</i></p>	<p>The site plan which forms part of the Development Agreement as the concept plan shows all relevant information required.</p>
<p><i>(ii) other supporting maps showing the topography of the lot including contours at five meter intervals, and significant natural features such as watercourses, wetlands and unique habitat or vegetation; and</i></p>	<p>Topography and significant natural features such as watercourses are shown on the concept plan.</p>
<p><i>(iii) photo examples, plans or drawings showing the exterior design of the proposed buildings;</i></p>	<p>Photos were included in the application showing the style of the buildings.</p>
<p><i>(j) any other matter which may be addressed by development agreement; and</i></p>	<p>No other matter has been raised.</p>
<p><i>(k) Policy 16.3.1.</i></p>	<p>Please see Appendix B for further details.</p>

**APPENDIX B**  
**GENERAL CRITERIA FOR DEVELOPMENT AGREEMENT**

**Policy 16.3.1** *In considering development agreements and amendments to the West Hants Land Use By-law, in addition to the criteria set out in various policies of this Strategy, Council shall consider:*

<b>CRITERIA</b>	<b>COMMENT</b>
<i>(a) whether the proposal is considered premature or inappropriate in terms of:</i>	
<i>(i) the adequacy of sewer and water services;</i>	Please see 5.4.4 (b) (ii) for further details.
<i>(ii) the adequacy of school facilities;</i>	The Director of Operations for the Annapolis Valley Regional Centre for Education has stated they have no concerns as schools in West Hants are projected to decreased in enrollment over the next ten years.
<i>(ii) the adequacy of fire protection and other emergency services;</i>	The Manager, Building and Fire Inspection and Fire Chief for the area have no concerns with regards to fire protection and emergency services.
<i>(iii) the adequacy of road networks adjacent to, or leading to the development; and</i>	Please see 5.4.4 (f) for further details.
<i>(iv) the financial capacity of the Municipality to absorb any costs relating to the development.</i>	There would be an increase in households using water, sewer, and waste disposal services in the area. New residents moving to the development would be expected to cover some of the increased costs for the Municipality.
<i>(b) whether the development is serviced, or capable of being serviced, by a potable water supply and either central sewer or an approved on-site sewage disposal system;</i>	Please see 5.4.4 (b) (ii) for further details.
<i>(c) the suitability with any aspect relative to the movement of auto, rail and pedestrian traffic;</i>	Please see 5.4.4 (f) for further details. All new roads must be built to the standards in the Municipal Services Specifications Manual and West Hants Subdivision By-law.
<i>(d) the adequacy of the dimensions and shape of the lot for the intended use;</i>	The lot dimensions and shape will be regulated in section 2.3 <i>Setbacks and Buffering</i> of the development agreement.
<i>(e) the pattern of development which the proposal might create;</i>	Policy 5.1.1 encourages concentrated residential development in designated

	Growth Centres. Two-unit dwellings are in line with this policy.
<i>(f) the suitability of the area in terms of steepness of grade, soil and geological conditions, location of water courses or wetlands, and susceptibility of flooding;</i>	Based on a preliminary visual assessment there are no evident concerns in terms of steepness of grade, soil, geological conditions, and location of water courses or wetlands. In terms of flooding, the MCCAP Inland and Coastal Flooding maps show there may be a risk of inland and coastal flooding in close vicinity to the properties but not directly on the properties. The Falmouth Stormwater Management Plan shows flooding potential downstream from the development site. Please see 5.4.4 (h) for comments from the Municipal Engineer regarding stormwater management. The applicant will be responsible if any issues arise in terms of the suitability of the area for the proposed uses.
<i>(g) whether the proposal meets the requirements of the appropriate provincial or federal agencies as well as whether it conforms to all other relevant municipal by laws and regulations; and</i>	The proposed amendment meets all relevant municipal, provincial and federal regulations.
<i>(h) any other matter required by relevant policies of this Strategy.</i>	Please see Appendix A for further details.



**WHEREAS** Policy 5.4.4 of the Municipal Planning Strategy; and Section 6.1 (d) of the Land Use By-law enables Council to consider new comprehensively designed multiple residential developments in the Falmouth Growth Centre by development agreement; and

**WHEREAS** the Council of the Municipality, at a meeting held on **Date**, approved this request and adopted this Agreement by policy subject to the execution of this development agreement by the parties hereto;

**NOW THEREFORE THIS AGREEMENT WITNESSETH** that in consideration of the mutual covenants and agreements herein contained, the parties agree as follows:

## **PART 1 AGREEMENT CONTEXT**

### **1.1 Definitions**

In this Agreement, all words or phrases used shall carry their customary meaning unless otherwise set out in the Land Use By-law, except those defined as follows:

“Municipal Engineer” means the engineer of the West Hants Regional Municipality and includes a person acting under the supervision and direction of the engineer.

“Two-unit Dwelling” means a completely detached building containing only two (2) dwelling units.

### **1.2 Schedules**

The following attached schedules shall form part of this Agreement:

- Schedule A - Legal Description
- Schedule B – Concept Plan
- Schedule C – Stormwater Management Plan

### **1.3 Municipal Planning Strategy, Land Use By-law, and Subdivision By-law**

- (a) *Municipal Planning Strategy* means the West Hants Municipal Planning Strategy, approved on May 13, 2008, as amended, or successor By-laws;
- (b) *Land Use By-law* means the West Hants Land Use By-law, approved on May 13, 2008, as amended, or successor By-laws;
- (c) *Subdivision By-law* means the West Hants Subdivision By-law, approved on May 13, 2008, as amended, or successor By-laws.

## **PART 2 DEVELOPMENT REQUIREMENTS**

### **2.1 Use**

The Parties agree that the uses on the Properties shall be limited to the following:

- (a) those uses permitted by the underlying zoning in the Land Use By-law; and
- (b) two-unit dwellings.

Except as otherwise provided in this Agreement, the provisions of the Land Use By-law and the Subdivision By-law apply to any development undertaken pursuant to this Agreement.

**2.2 Development Location and Design**

The development location and design shall conform to the following at all times:

- (a) a minimum of 30 percent of the dwellings constructed must be single unit dwellings;
- (b) maximum units per phase shall not exceed the numbers shown on the Unit Summary table on Schedule B;
- (c) the development shall be constructed using any of the lot configurations or design elements shown in Schedule B; and
- (d) the gross density of the development shall not exceed four and a half (4.5) dwelling units per acre. Where the gross density exceeds three (3) dwelling units per acre, at least 10 percent of the total area of the property shall be dedicated to the Municipality for parkland or open space purposes. This includes the 5% parkland dedication required in the Subdivision By-law. The Public Parkland outlined in the parkland agreements entered into by the Owner and the Municipality on August 22, 2011 and April 10, 2012 may be used as part of the parkland contribution requirement for this development.

**2.3 Lot and Yard Requirements**

All Single Unit dwellings shall conform to the following lot requirements:

Minimum Lot Area	6,000 ft <sup>2</sup> (557.40 m <sup>2</sup> ) 7,000 ft <sup>2</sup> (650.30 m <sup>2</sup> ) for corner lots
Minimum Lot Frontage	50 ft. (15.24 m)
Minimum Front/Flankage Yard	25 ft (7.62 m)
Minimum Rear Yard	25 ft (7.62 m)
Minimum Side Yard	6 ft. (1.83 m) on both sides
Maximum Height of Main Building	35 ft (10.67 m)

All Two-unit dwellings shall be regulated under sections 9.2 and 9.3 of the Land Use By-law.

The Development Officer may grant a variance from one or more of the following subject to the requirements of the Municipal Government Act:

- (a) minimum lot area and frontage;

- (b) minimum yard dimensions;
- (c) percentage of land that may be built upon;
- (d) number of parking and loading spaces required;
- (e) height of a structure;
- (f) floor area occupied by a home-based business; and
- (g) height and area of a sign.

#### **2.4 Access and Egress**

Before a development permit can be issued for the 100th residential unit within the area of the development agreement and/or prior to the commencement of any development in Phase 3 as shown on Schedule B, a Traffic Impact Study must be submitted to the Municipality and approved by Department of Transportation and Infrastructure Renewal, and all work required by the recommendations in the Traffic Impact Study must be completed. This requirement applies only to applications for development permits made following the effective date of this development agreement.

#### **2.5 Roads and Municipal Services**

Roads and Municipal Services in the development shall conform to the following:

- (a) the layout of streets within the development shall be as generally shown on Schedule B. The Development Officer, in consultation with the Municipal Engineer, may give consideration to minor incidental changes to the street layout;
- (b) all streets and municipal services within the development shall be designed and constructed in accordance with the requirements of the Municipal Services Specifications Manual. Detailed design plans of the street networks, water and sewer servicing and storm water systems shall be approved by the Municipal Engineer for each phase of the development prior to construction commencing for that phase; and
- (c) the development of new streets not shown on Schedule B for the purpose of development shall be permitted provided all requirements of the Subdivision By-law are met.

#### **2.6 Parking**

Parking shall be provided in accordance with the requirements of section 5.31 of the Land Use By-law.

#### **2.7 Signs and Lighting**

Signage and illumination shall be regulated under sections 5.18 and 7.0 of the Land Use By-law which controls lighting, size, location, and number of signs. Exterior lighting for driveways, parking areas, signs or structures shall be shielded and directed downward to minimize light spilling, glare or light cast over neighbouring properties or the street.

## **2.8 Maintenance**

The Owner shall keep the Properties and buildings and any portion thereof clean and in good repair. Any driveways, fences, lawns, trees, shrubs, walkways and other landscaping elements shall be regularly maintained and kept in a tidy state and free from unkempt materials or matter of any kind.

## **2.9 Storm Drainage**

The Owner shall ensure the Stormwater Management Plan, Schedule C, is implemented to ensure neighboring properties are not negatively impacted by storm drainage.

The Owner may transfer ownership of the stormwater management system, and specifically the detention pond, to the Municipality provided all acceptance requirements in the Subdivision By-law are met. If the Owner wishes to enable alternative requirements for acceptance, the Owner may enter into a servicing agreement with the Municipality as outlined in the Subdivision By-law.

If the Owner wishes to retain ownership of the stormwater management system, and specifically the detention pond, the Owner must provide the Municipal Engineer evidence annually, or upon request of the Municipality, that the detention pond conforms to the performance expectations detailed in Schedule "C" of this agreement. All costs associated with addressing performance concerns will be at the sole expense of the owner and must be addressed by the Owner within six (6) months of notification. The Owner may be given an extension in writing by the Development Officer to complete the work for an equivalent period. Should the owner not address the concerns, the Municipality reserves the rights to make any repairs necessary and charge the Owner for the costs incurred.

## **PART 3 CHANGES AND DISCHARGE**

**3.1** The Owner shall not vary or change the use of the Properties from that provided for in *Section 2.1 Uses* of this Agreement unless a new agreement is entered into with the Municipality or this Agreement is amended.

**3.2** Any matters in this Agreement which are not specified in Subsection 3.3 below are not substantive matters and may be changed with the written consent of Council without a public hearing provided that Council determines that the changes do not significantly alter the overall intended effect of this Agreement.

**3.3** The following matters are substantive matters:

- (a) the uses permitted on the Properties as listed in *Section 2.1 Use* of this Agreement;
- (b) the location and design requirements for the Properties as listed in *Section 2.2 Development Location and Design*;
- (c) the lot and yard requirements for the Properties as listed in *Section 2.3 Lot and Yard Requirements* of this Agreement; and

- (d) the stormwater management plan for the Properties as described in Section 2.9 Storm Drainage of this Agreement.
- 3.5** Notwithstanding the foregoing, discharge of this agreement is not a substantive matter and this agreement may be discharged by Council without a public hearing.
- 3.6** Notice of Intent to Discharge this Agreement may be given by the Municipality to the Owner following a resolution of Council to give such Notice:
- (a) as provided for in *Section 4.1 Commencement of Operation* of this Agreement; or
  - (b) at the discretion of the Municipality, with or without the concurrence of the Owner, where the Development has, in the reasonable opinion of Council on advice from the Development Officer, ceased operation for a period of at least forty-eight (48) months; or
  - (c) at any time upon the written request of the Owner, provided the use of the Properties is in accordance with the Land Use By-law or a new Agreement has been entered into.
- 3.7** Council may discharge this Agreement 30 days after a Notice of Intent to Discharge has been given.

## **PART 4 IMPLEMENTATION**

### **4.1 Commencement of Operation**

- (a) The Owner may not commence any construction or use on the Properties related to this development until the Municipality has issued any development permit, building permit and/or occupancy permit that may be required.
- (b) Development as provided in Part 2 of this Agreement shall commence not later than forty-eight (48) months from the date this Agreement is signed. If, in the opinion of the Development Officer, this time limit has not been met, this Agreement may be discharged at the option of the Municipality by resolution of Council 30 days after giving Notice of Intent to Discharge to the Owner. Upon the written request of the Owner, the Municipality, by resolution of Council, may grant an extension to the date of commencement of development without such an extension being deemed to be an amendment to this Agreement.
- (c) If the Owner is bona fide delayed from commencing the development for reasons which are beyond the Owner's control, the determination of which shall be at the sole discretion of the Development Officer, then performance by the Owner is excused for the period of the delay and the time period for the Owner to perform their obligations shall be extended by the Development Officer in writing for an equivalent period, without such an extension being deemed to be an amendment to this Agreement.

### **4.2 Material to be Provided**

- (a) The Owner shall provide record drawings to the Development Officer for any portion of the development for which an engineered design is required within ten (10) days of completion of any work which requires the engineered design.
- (b) The Owner shall, upon written request, provide the Municipality with copies of any documentation, permits or approvals required by Provincial or Federal governments or agencies.

## **PART 5 ADMINISTRATION and COMPLIANCE**

### **5.1 Compliance with Other By-laws and Regulations**

- (a) Nothing in this Agreement shall exempt the Owner from complying with Federal, Provincial and Municipal laws, by-laws and regulations in force or from obtaining any Federal, Provincial, or Municipal license, permission, permit, authority, or approval required thereunder.
- (b) Where the provisions of this Agreement conflict with those of any by-law of the Municipality applicable to the Properties (other than the Land Use By-law to the extent varied by this Agreement) or any statute or regulation, the higher or more stringent requirements shall prevail.

### **5.2 Severability of Provisions**

The provisions of this Agreement are severable from one another and the invalidity or unenforceability of one provision shall not affect the validity or enforceability of any other provision.

### **5.3 Interpretation**

- (a) Where the context requires, the singular shall include the plural and the masculine gender shall include the feminine and neutral gender.
- (b) Where the written text of this Agreement conflicts with information provided in the Schedules attached to this Agreement, the written text of this Agreement shall prevail.

### **5.4 Municipal Responsibility**

- (a) The Municipality does not make any representations to the Owner about the suitability of the Properties for the development proposed by this agreement. The Owner assumes all risks and must ensure that any proposed development complies with this Agreement and all other laws pertaining to the Development.
- (b) Any failure of the Municipality to insist upon a strict performance of any requirements or conditions contained in this Agreement shall not be deemed a waiver of any rights or remedies that the Municipality may have and shall not be deemed a waiver of any subsequent breach or default in the conditions or requirements contained in this Agreement.

### **5.5 Breach of Terms or Conditions**

Upon breach of any term or condition of this Agreement, the Municipality may notify the Owners in writing. In the event that the Owners have not cured any such breach or entered into arrangements with the Municipality related to such breach to the Municipality's satisfaction, acting reasonably, within six (6) months of such notice then the Municipality may rely upon the remedies contained in Section 264 of the *Municipal Government Act* and may enter the land and perform any of the terms contained in the Development Agreement, or take such remedial action as is considered necessary to correct a breach of the Agreement, including the removal or destruction of anything that contravenes the terms of the Agreement and including decommissioning the site. It is agreed that all reasonable expenses, whether arising out of the entry on the land or from the performance of the terms, are a first lien on the land that is the subject of the Development Agreement.

#### **5.6 Costs**

The Owner shall pay all costs associated with the costs of registering this Agreement and discharging any prior agreements encumbering the Properties, and all costs associated with any amendment thereof.

#### **5.7 Development Agreement Bound to Land**

- (a) This Agreement shall be binding upon the parties hereto and their heirs, executors, administrators, successors, and assigns, and shall run with the land which is the subject of this Agreement until such time as it is discharged by the Municipality.
- (b) This Agreement replaces and discharges the Development Agreement between the Municipality of the District of West Hants and the Owner dated August 7, 2007 and recorded at the Registry of Deeds in the Province of Nova Scotia on September 27, 2007 as Document No. 88923751.

#### **5.8 Assignment of Agreement**

The Owner may, at any time and from time to time, transfer or assign this Agreement and its rights hereunder and may delegate its obligations hereunder to an assign, successor, heir, or purchaser of the land bound by this Agreement.

#### **5.9 Written Notice**

- (a) The Municipality may serve notice on the Owner personally or by ordinary mail which shall be deemed to have been received within three (3) business days of mailing, addressed to 258 King Street P.O. Box 2018 Windsor, NS, CA B0N 2T0, or at any other address provided by the Owner.
- (b) The Owner may serve notice on the Municipality by registered mail addressed to the Chief Administrative Officer, West Hants Regional Municipality, 76 Morison Drive, P.O. Box 3000, Windsor, Nova Scotia, B0N 2T0.

#### **5.10 Full Agreement**

This Agreement constitutes the entire Agreement and contract entered into by the Municipality and the Owner. No other agreement or representation, oral or written, shall be binding.

**IN WITNESS WHEREOF** this Agreement was properly executed by the respective parties hereto on the day and year first above written.

**SIGNED, SEALED AND DELIVERED**

In the presence of:

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness

**WEST HANTS REGIONAL MUNICIPALITY**

)  
)  
)  
) Per: \_\_\_\_\_  
) Abraham Zebian, Mayor  
)

) Per: \_\_\_\_\_  
) Rhonda Brown, Municipal Clerk  
)

) **Brison Developments Limited**  
)  
)  
) Per: \_\_\_\_\_  
) Mitchel Brison, President



AFFIDAVIT OF CLERK  
WEST HANTS REGIONAL MUNICIPALITY

I, Rhonda Brown of \_\_\_\_\_, Hants County, Nova Scotia make oath and swear that:

1. I am the Clerk of the West Hants Regional Municipality (The "Municipality") and I have personal knowledge of the matters to which I have sworn in this Affidavit.
2. The Municipality is a body corporate pursuant to the Municipal Government Act, S.N.S. 1988, c.18, as amended.
3. I acknowledge that the Municipality executed the attached Instrument by its proper designates duly authorized in that regard under seal on the date of this Affidavit pursuant to subsection 13(3) of the Municipal Government Act, S.N.S. 1988, c.18, as amended. This acknowledgement is made pursuant to subsection 31(a) of the Registry Act, R.S.N.S. 1989, c.392 and/or clause 79(1)(a) of the Land Registry Act, S.N.S. 2001, c.6, as amended, for the purpose of registering or recording the Instrument.
4. The Municipality is resident in Canada for the purposes of the Income Tax Act (Canada).

Sworn before me at \_\_\_\_\_, Nova Scotia,  
this \_\_\_\_\_, 2021.

\_\_\_\_\_  
A BARRISTER/COMMISSIONER OF THE  
SUPREME COURT OF NOVA SCOTIA  
Print name/affix seal

\_\_\_\_\_  
RHONDA BROWN

I CERTIFY that on this date Rhonda Brown personally came before me and swore under oath the foregoing Affidavit.

\_\_\_\_\_  
A BARRISTER/COMMISSIONER OF THE  
SUPREME COURT OF NOVA SCOTIA  
Print name/affix seal

Canada  
Province of Nova Scotia

AFFIDAVIT & PROOF OF EXECUTION (CORPORATE)

I, Mitchel Brison, Nova Scotia, make oath and say that:

1. I am Mitchel Brison of Brison Developments Limited, the "Corporation". Except as otherwise stated I have personal knowledge of the matters to which I have sworn in this Affidavit.
2. I acknowledge that I executed the foregoing instrument on behalf of the Corporation on the date of this affidavit; this acknowledgment is made for the purpose of registering such instrument pursuant to s.31(a) of the Registry Act, R.S.N.S. 1989, c.392 or ss.79 and 83 of the Land Registration Act as the case may be.
3. I verify that I have the authority to execute the foregoing instrument on behalf of the corporation and thereby bind the Corporation.
4. The Corporation is a resident of Canada under the Income Tax Act (Canada).
5. The ownership of a share or an interest in a share of the Corporation does not entitle the owner of such share or interest in such share to occupy a dwelling owned by the Corporation.

I certify that on this **Month Day**, 2021 the Deponent came before me, made oath, and swore the foregoing affidavit at \_\_\_\_\_, Nova Scotia.

Print Name:

Authority (e.g. Commissioner of Oaths):  
Please affix seal

**Schedule 'A'**  
**Legal Description – PID 45371879**

Place Name: FALMOUTH BACK ROAD FALMOUTH  
Municipality/County: MUNICIPALITY OF THE DISTRICT OF HANTS WEST/HANTS COUNTY  
Designation of Parcel on Plan: BLOCK 1-R  
Title of Plan: SURVEY PARCEL PH-2, S/D PORTION BLOCK 1, LANDS OF MEADOWS DEVELOPMENT LTD, FALMOUTH BACK RD, AYLWARD RD & SHETLAND RD (PROPOSED), FALMOUTH, APP PARCEL PH-2 & BLOCK 1-R  
Registration County: HANTS COUNTY  
Registration Number of Plan: 88595377  
Registration Date of Plan: 2007-08-16 13:49:14

SAVING and EXCEPTING Lot MD-1 as shown on registered Plan No. 91651050 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOTS M-1 to M-4, inclusive as shown on registered Plan No. 97335914 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOTS 114-121 inclusive, as shown on registered Plan No. 99835861 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 113 as shown on registered Plan No. 99835861 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 112 as shown on registered Plan No. 100545707 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 103 as shown on registered Plan No. 104799615 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 104 and LOT 105 as shown on registered Plan No. 105333000 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 109 as shown on registered Plan No. 106182976 at the Land Registration Office for Hants County.

SAVING AND EXCEPTING Lot 108 as shown on registered plan no. 107755051 recorded in the Land Registration Office for Hants County.

SAVING AND EXCEPTING Lot 106 as shown on registered plan no. 108175689 recorded in the Land Registration Office for Hants County.

SAVING and EXCEPTING Lot 107 as shown on registered Plan No. 108291684 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 110 as shown on registersred Plan No. 108314981 at the Land Registration Office for Hants County.

SAVING and EXCEPTING LOT 101 and LOT 102 as shown on registersred Plan No. 110487163 at the Land Registration Office for Hants County.

\*\*\* Municipal Government Act, Part IX Compliance \*\*\*

Compliance:

The parcel is created by a subdivision (details below) that has been filed under the Registry Act or registered under the Land Registration Act  
Registration District: HANTS COUNTY  
Registration Year: 2017  
Plan or Document Number: 110487163

The MGA compliance statement has been applied by SNSMR during the processing of Land Registration Plan.

#### **Legal Description – PID 45383379**

Registration County: HANTS COUNTY  
Street/Place Name: FALMOUTH DYKE ROAD /FALMOUTH  
Title of Plan: PLAN OF S/D OF LOT GE-2, LAND OF RICHARD ARNOLD ELDRIDGE, TO FORM LOT GE-2A & REMAINDER LOT GE-2B, FALMOUTH DYKE RD, FALMOUTH  
Designation of Parcel on Plan: LOT GE-2A  
Registration Number of Plan: 96299525  
Registration Date of Plan: 2010-07-07 11:26:40

#### **Legal Description – PID 45371887**

Place Name: FALMOUTH BACK ROAD FALMOUTH  
Municipality/County: MUNICIPALITY OF THE DISTRICT OF HANTS WEST/HANTS COUNTY  
Designation of Parcel on Plan: PARCEL PH-2  
Title of Plan: SURVEY PARCEL PH-2, S/D PORTION BLOCK 1, LANDS OF MEADOWS DEVELOPMENT LTD, FALMOUTH BACK RD, AYLWARD RD & SHETLAND RD (PROPOSED), FALMOUTH, APP PARCEL PH-2 & BLOCK 1-R  
Registration County: HANTS COUNTY  
Registration Number of Plan: 88595377  
Registration Date of Plan: 2007-08-16 13:49:14

SAVING and EXCEPTING LOTS M-2 to M-10, inclusive as shown on registered Plan No. 97335914 at the Land Registration Office for Hants County.

The parcel originates with an approved plan of subdivision that has been filed under the Registry Act or registered under the Land Registration Act at the Land Registration Office for the registration district of Hants as plan or document number 97335914.

The MGA compliance statement has been applied by SNSMR during the processing of the abovementioned plan 97335914.

**Legal Description – PID 45383957**

Parcel Description

Registration County: HANTS COUNTY

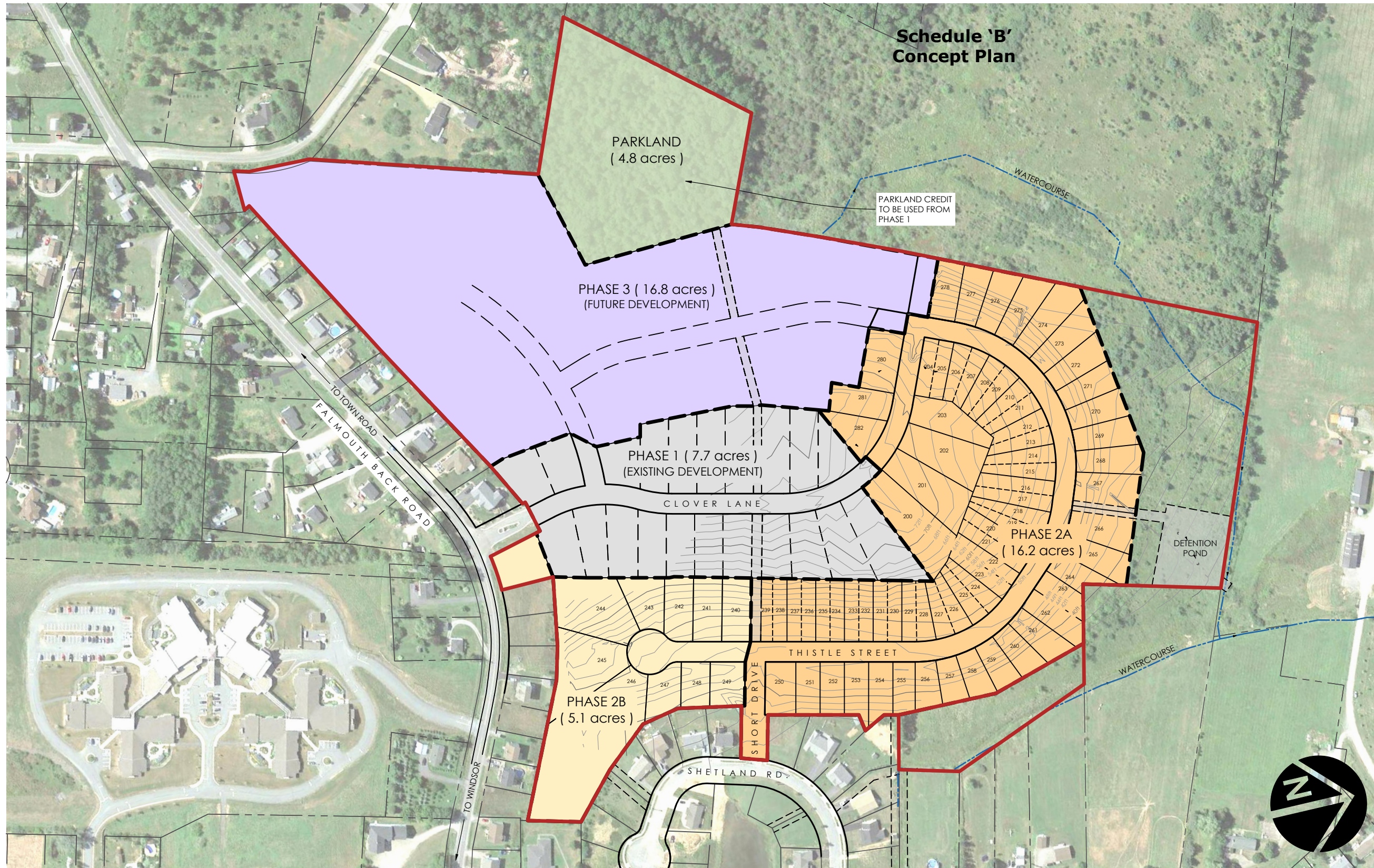
Street/Place Name: FALMOUTH BACK ROAD /FALMOUTH

Title of Plan: PLAN OF SURVEY OF LOTS M-1 TO M-10, BEING A S/D AND CONSOLIDATION OF BLOCK 1-RA & PARCEL PH-2, LANDS OF BUCKWOOD INVESTMENTS LTD & LANDS CLAIMED BY BUCKWOOD INVESTMENTS LTD, (THE OLD TOWNSHIP RD), FALMOUTH BACK RD, FALMOUTH

Designation of Parcel on Plan: LOT M-2

Registration Number of Plan: 97335914

Registration Date of Plan: 2010-12-02 13:22:33



**Schedule 'B'  
Concept Plan**

**LEGEND**

- Site Boundary
- - - Adjacent Property Boundary

**UNIT SUMMARY**

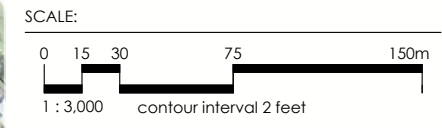
	Area (acres)	Maximum Units
Phase 2A (R1)	16.2	36
Phase 2A (R2)		36
Phase 2B (R1)	5.1	10
<b>Total</b>	<b>21.3</b>	<b>82</b>

Phase 3 up to maximum of 75 units

- SITE SUMMARY:**
- Existing Zone: Multiple Residential
  - Total Land Area: 56.7 acres

- NOTES:**
- Subject to survey. Property lines and topographic features are approximate only.
  - Site subject to by-law review and regulations.

- SOURCES:**
- Plan based on DesignPoint Site Plan file: '14-033\_Base\_20200401.dwg'



# Schedule 'C'

## Stormwater Management Plan



June 22, 2020

**West Hants Regional Municipality**

100 King Street

Windsor, Nova Scotia B0N 2T0

Attention: Rick Sherrard, Manager of Technical Engineering Services

**RE: The Meadows Phase 2A – Storm Drainage System Modification Request**

DesignPoint Project #: 14-033

Further to our site meeting, I herein request that the Municipality allow the Developer to modify the storm drainage plan as follows:

- 1) Install an additional 250 mm $\varnothing$  PVC DR35 storm pipe from CB7-A and CB7-B to rear lot line between lots 240 and 242. This pipe will discharge water from area A7 only (2.1 acres). The discharge will be directed into the existing ditch/drainage route at the rear of the lots, the property at this location is owned by Brison Developments. This ditch drains to the same watercourse that the discharge from the drainage pond for the project discharges to.
- 2) Remove the deep storm sewer pipes from MHST7A to MHST9 and from MHST7 to MHST5, with CB7-A and CB7-B directed to the ditch as described above. The deep storm sewer pipes are not needed for CB7-A and CB7-B. The Developer has decided to build all homes as slab on grade and therefore a deep storm sewer for footing drains is not required.

We will be able to balance the pre and post development flows with oversized pipe or perforated pipe. This storm water design approach will provide adequate drainage for this project and will meet all regulatory requirements.

For reference, refer to attached design drawings for The Meadows Phase 2, sheets 1-11, revision 3, dated June 12, 2019, as signed by myself.

If this is acceptable to the Municipality, we will submit a revised design along with the storm drainage calculations.

If you have any questions, please feel free to contact me.

Thank you,

**DesignPoint Engineering & Surveying Ltd.**

A handwritten signature in blue ink that reads "Glenn Woodford".

Glenn Woodford, P.Eng.

Senior Engineer & Principal

GSW/alc

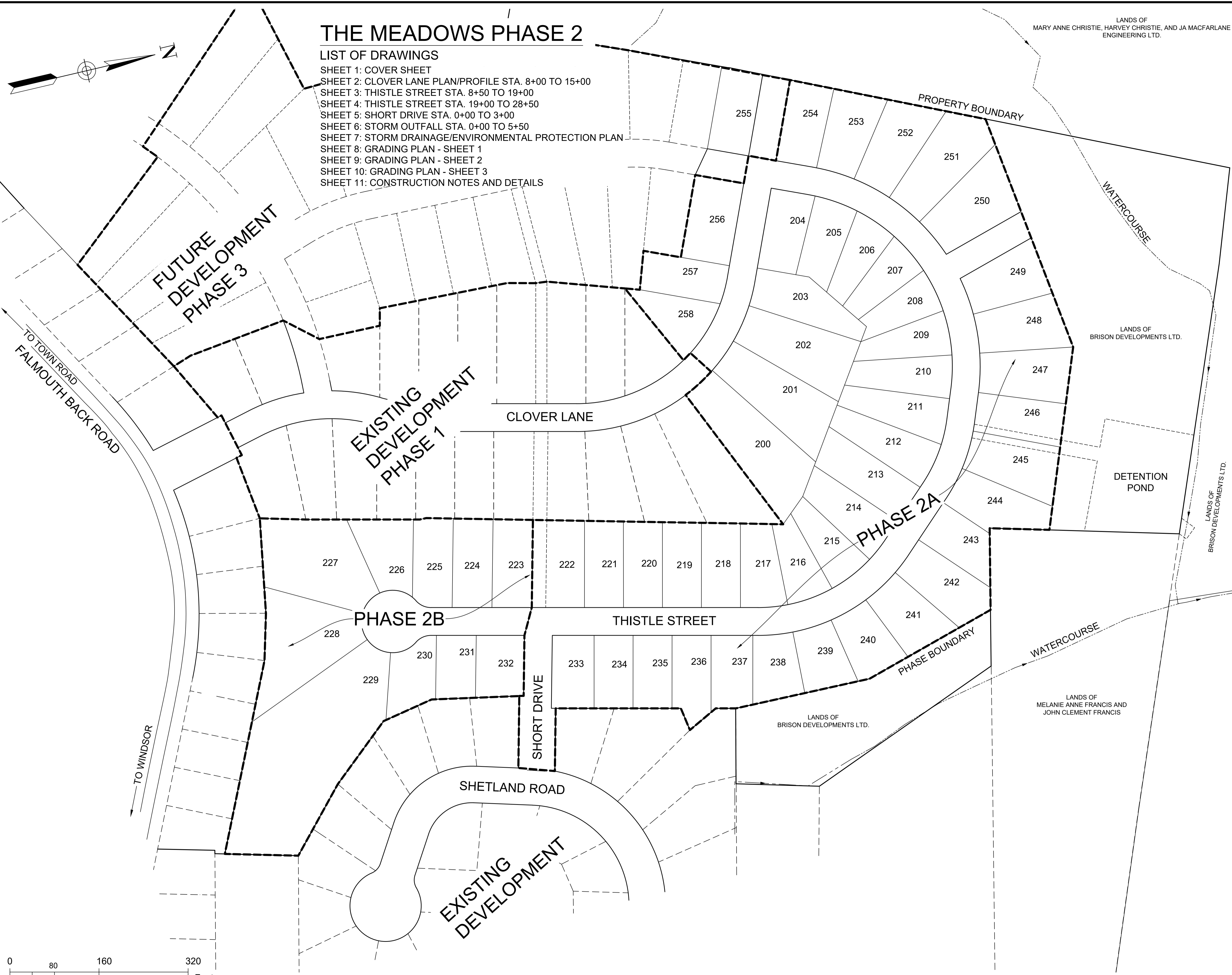
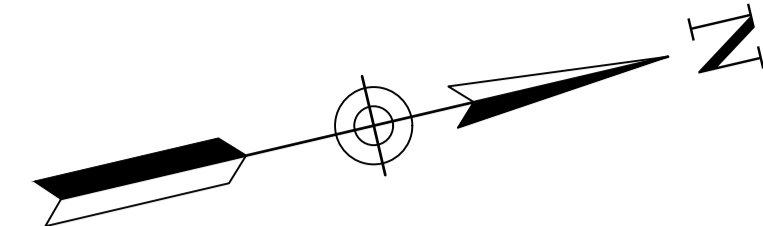
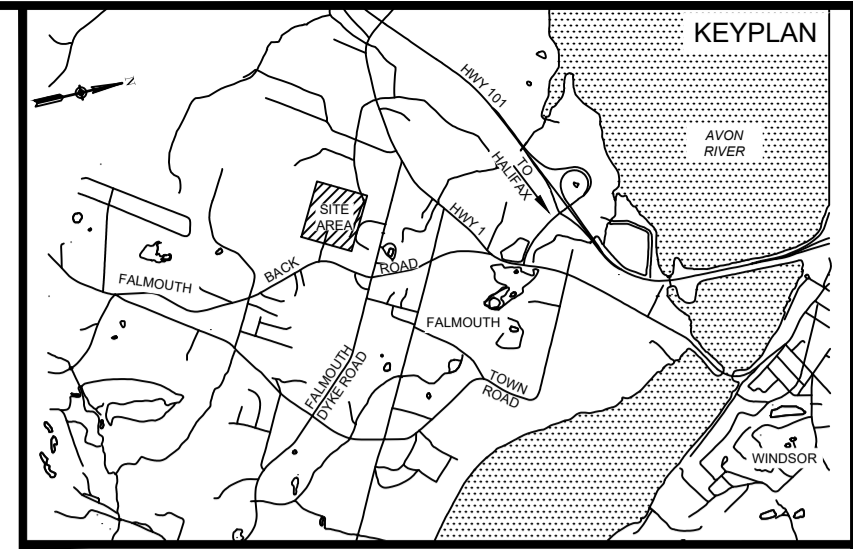
Enclosures: The Meadows Phase 2 Design Drawings

# THE MEADOWS PHASE 2

## LIST OF DRAWINGS

- SHEET 1: COVER SHEET
- SHEET 2: CLOVER LANE PLAN/PROFILE STA. 8+00 TO 15+00
- SHEET 3: THISTLE STREET STA. 8+50 TO 19+00
- SHEET 4: THISTLE STREET STA. 19+00 TO 28+50
- SHEET 5: SHORT DRIVE STA. 0+00 TO 3+00
- SHEET 6: STORM OUTFALL STA. 0+00 TO 5+50
- SHEET 7: STORM DRAINAGE/ENVIRONMENTAL PROTECTION PLAN
- SHEET 8: GRADING PLAN - SHEET 1
- SHEET 9: GRADING PLAN - SHEET 2
- SHEET 10: GRADING PLAN - SHEET 3
- SHEET 11: CONSTRUCTION NOTES AND DETAILS

LANDS OF  
MARY ANNE CHRISTIE, HARVEY CHRISTIE, AND JA MACFARLANE  
ENGINEERING LTD.



**ISSUED FOR REVIEW  
NOT FOR CONSTRUCTION**

ISSUE	DATE	DESCRIPTION
3	JUN. 12, 2019	REVISED AS PER MDWH COMMENTS
2	NOV. 04, 2015	REVISED AS PER MDWH COMMENTS
1	MAR. 27, 2015	ISSUED FOR REGULATORY REVIEW

CONSULTANT

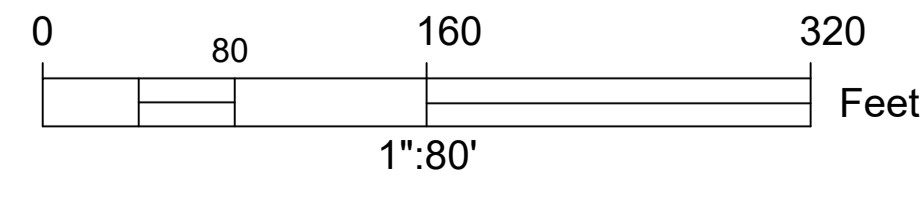
CLIENT

PROJECT DESCRIPTION

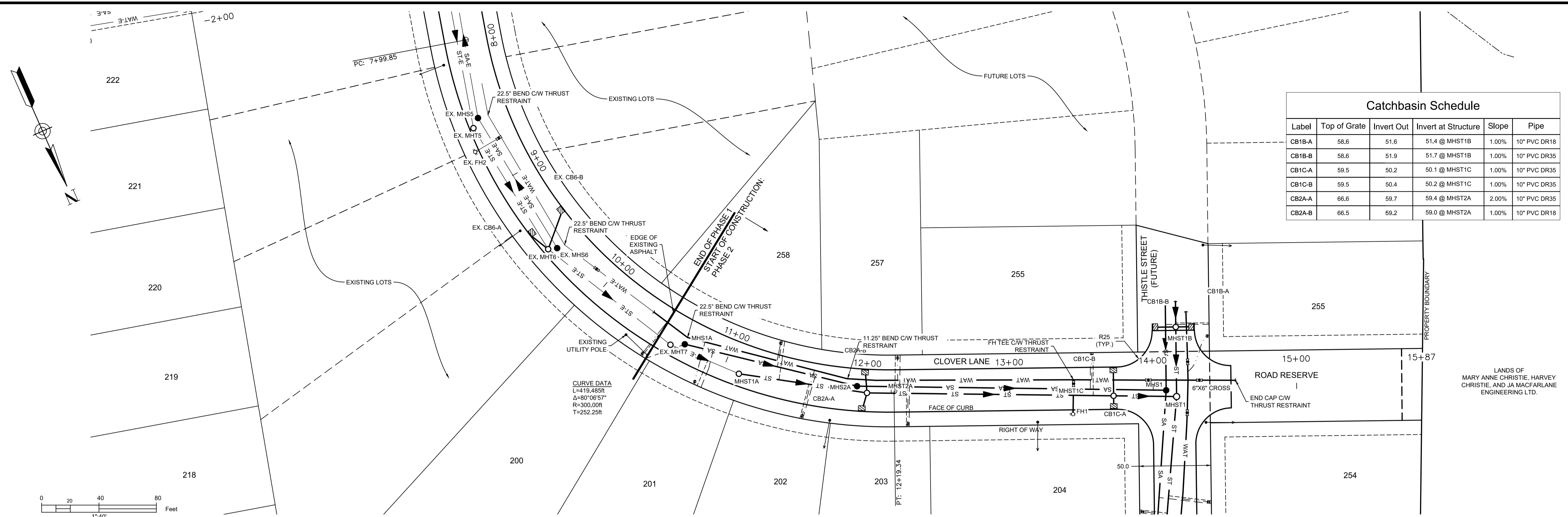
**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**COVER  
SHEET**

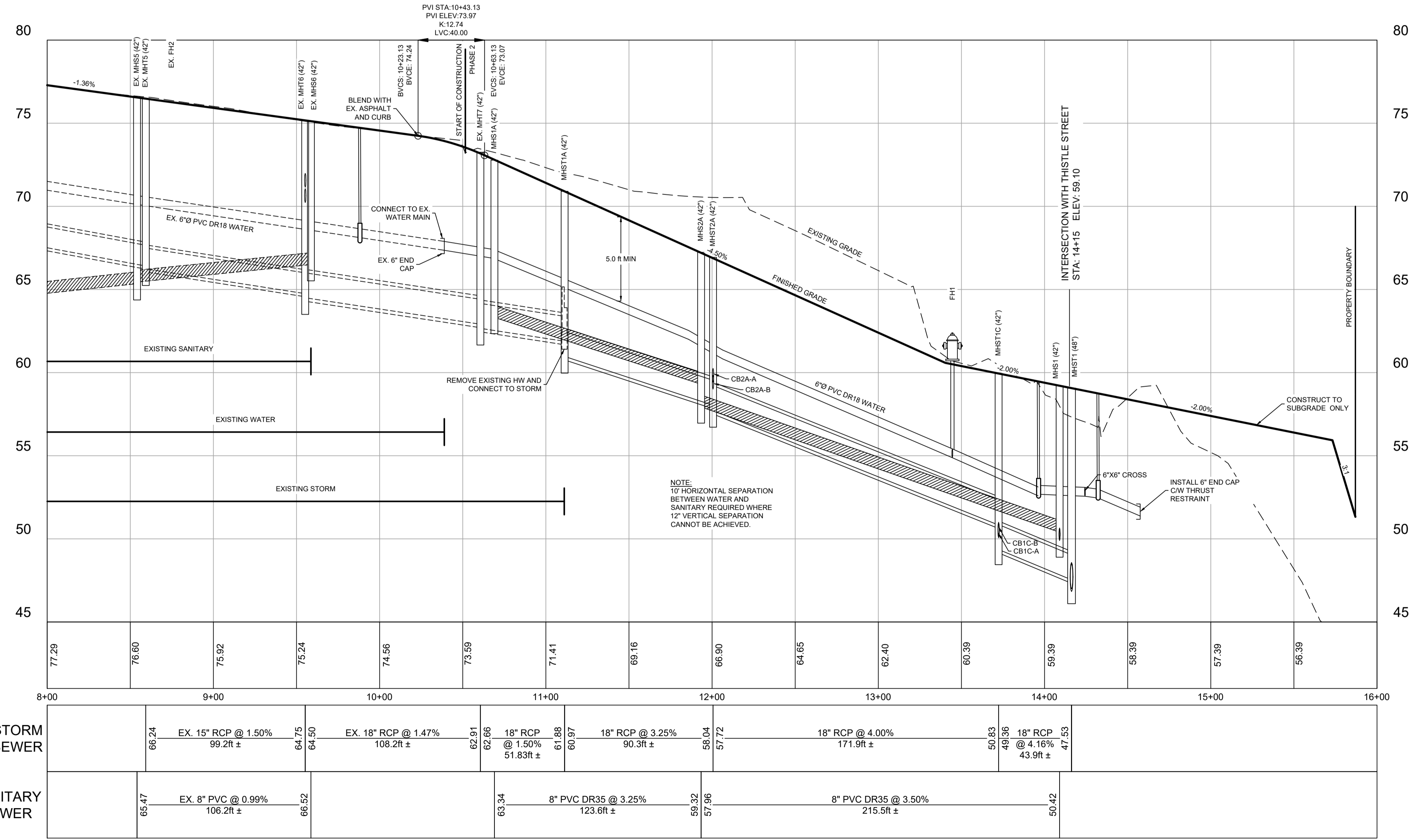
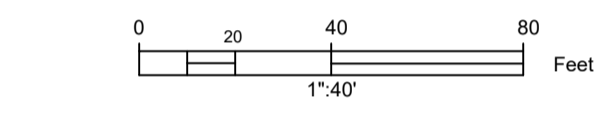


Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	1 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	1"=80' H	14-033CBase.dwg	



Label	Top of Grate	Invert Out	Invert at Structure	Slope	Pipe
CB1B-A	58.6	51.6	51.4 @ MHST1B	1.00%	10" PVC DR18
CB1B-B	58.6	51.9	51.7 @ MHST1B	1.00%	10" PVC DR35
CB1C-A	59.5	50.2	50.1 @ MHST1C	1.00%	10" PVC DR35
CB1C-B	59.5	50.4	50.2 @ MHST1C	1.00%	10" PVC DR35
CB2A-A	66.6	59.7	59.4 @ MHST2A	2.00%	10" PVC DR35
CB2A-B	66.5	69.2	59.0 @ MHST2A	1.00%	10" PVC DR18

DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●—
STORM LINE	—○— ST —○— ST —○—
WATER LINE	—WAT— WAT —WAT—
SANITARY LATERAL	—————
STORM LATERAL	—————
WATER LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH —OH—
WATER VALVE	⊠
CURB STOP	⊛
CATCHBASIN	⊞
FIRE HYDRANT	⊙
UTILITY POLE	⊙
PRECAST HEADWALL	⊞



STORM SEWER  
SANITARY SEWER

8+00	77.29	76.60	75.92	75.24	74.56	73.89	71.41	69.16	66.80	64.65	62.40	60.39	59.39	58.39	57.39	56.39
EX. 15" RCP @ 1.50%	EX. 18" RCP @ 1.47%	18" RCP @ 1.50%	18" RCP @ 3.25%	8" PVC DR35 @ 3.25%	8" PVC DR35 @ 3.50%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%	18" RCP @ 4.16%
99.2ft ±	108.2ft ±	51.83ft ±	90.3ft ±	123.6ft ±	215.5ft ±	43.9ft ±	43.9ft ±	43.9ft ±	43.9ft ±	43.9ft ±	43.9ft ±	43.9ft ±	43.9ft ±	43.9ft ±	43.9ft ±	43.9ft ±

ISSUED FOR REVIEW  
NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
3	JUN. 12, 2019	REVISED AS PER MDWH COMMENTS
2	NOV. 04, 2015	REVISED AS PER MDWH COMMENTS
1	MAR. 27, 2015	ISSUED FOR REGULATORY REVIEW

CONSULTANT

DESIGN POINT  
ENGINEERING & SURVEYING

CLIENT

BRISON DEVELOPMENTS

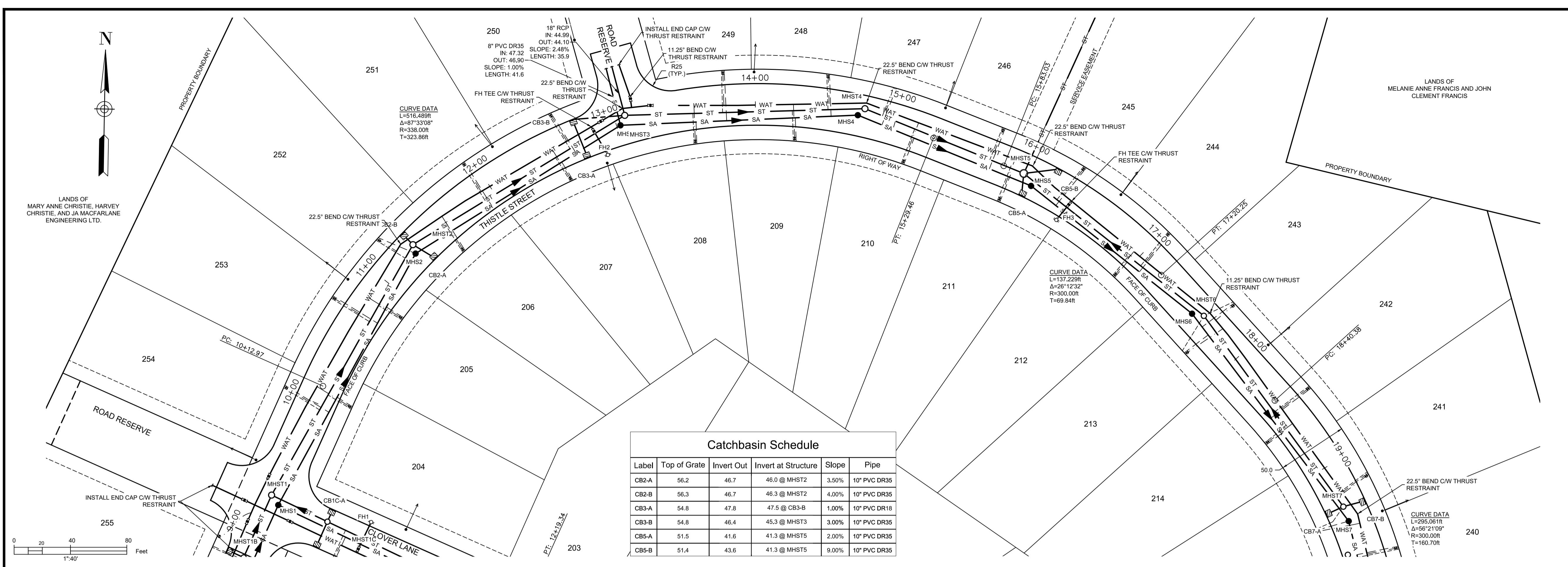
PROJECT DESCRIPTION

THE MEADOWS  
PHASE 2  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

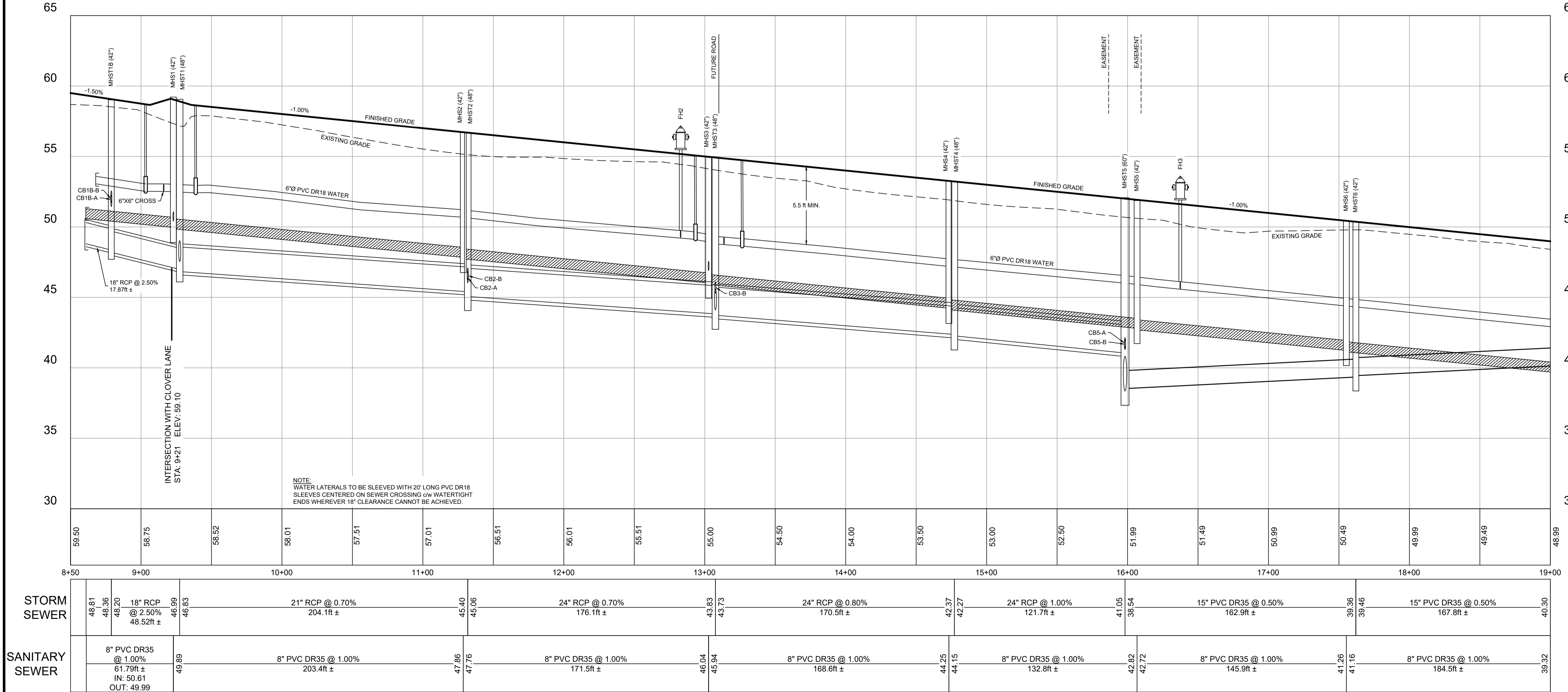
PLAN / PROFILE  
CLOVER LANE  
STA. 8+00 TO 15+00

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 2 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



Label	Top of Grate	Invert Out	Invert at Structure	Slope	Pipe
CB2-A	56.2	46.7	46.0 @ MHST2	3.50%	10" PVC DR35
CB2-B	56.3	46.7	46.3 @ MHST2	4.00%	10" PVC DR35
CB3-A	54.8	47.8	47.5 @ CB3-B	1.00%	10" PVC DR18
CB3-B	54.8	46.4	45.3 @ MHST3	3.00%	10" PVC DR35
CB5-A	51.5	41.6	41.3 @ MHST5	2.00%	10" PVC DR35
CB5-B	51.4	43.6	41.3 @ MHST5	9.00%	10" PVC DR35

DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●— SA —●— SA
STORM LINE	—○— ST —○— ST —○— ST —○— ST
WATER LINE	—●— WAT —●— WAT —●— WAT —●— WAT
SANITARY LATERAL	—————
STORM LATERAL	—————
WATER LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH —OH— OH
WATER VALVE	⊞ FIRE HYDRANT
CURB STOP	⊞ UTILITY POLE
CATCHBASIN	⊞ PRECAST HEADWALL



ISSUED FOR REVIEW  
NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
3	JUN. 12, 2019	REVISED AS PER MDWH COMMENTS
2	NOV. 04, 2015	REVISED AS PER MDWH COMMENTS
1	MAR. 27, 2015	ISSUED FOR REGULATORY REVIEW

CONSULTANT

**DESIGN POINT**  
ENGINEERING & SURVEYING

GLEN WOODFORD  
P.E. 6078  
PROVINCE OF NOVA SCOTIA

CLIENT

**BRISSON DEVELOPMENTS**

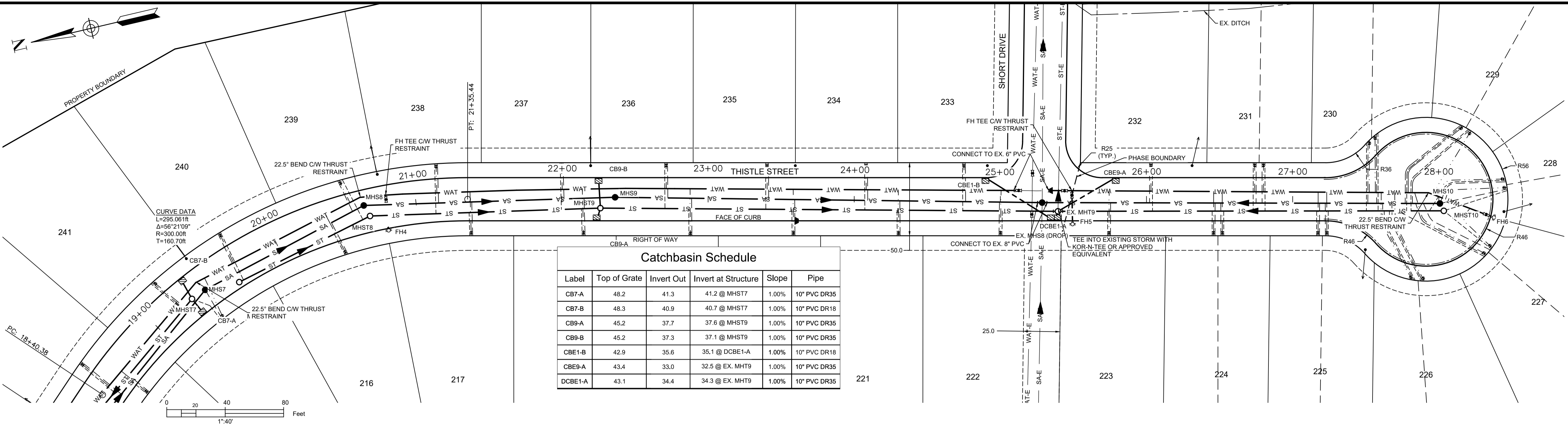
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

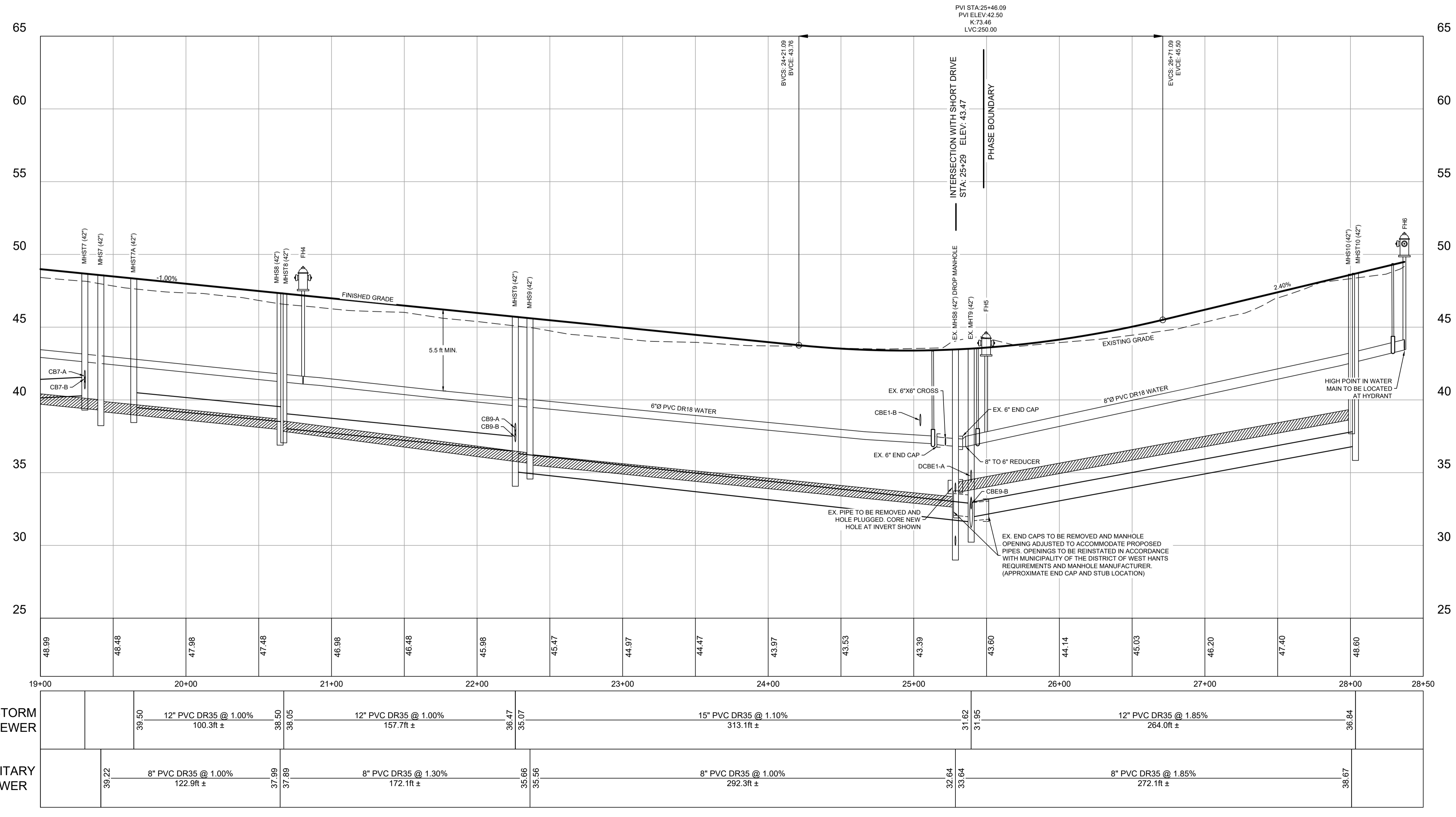
**PLAN / PROFILE**  
THISTLE STREET  
STA. 8+50 TO 19+00

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 3 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



Label	Top of Grate	Invert Out	Invert at Structure	Slope	Pipe
CB7-A	48.2	41.3	41.2 @ MHST7	1.00%	10" PVC DR35
CB7-B	48.3	40.9	40.7 @ MHST7	1.00%	10" PVC DR18
CB9-A	45.2	37.7	37.6 @ MHST9	1.00%	10" PVC DR35
CB9-B	45.2	37.3	37.1 @ MHST9	1.00%	10" PVC DR35
CBE1-B	42.9	35.6	35.1 @ DCBE1-A	1.00%	10" PVC DR18
CBE9-A	43.4	33.0	32.5 @ EX. MHT9	1.00%	10" PVC DR35
DCBE1-A	43.1	34.4	34.3 @ EX. MHT9	1.00%	10" PVC DR35

DESIGN GRADE	---
EXISTING GRADE	---
CENTERLINE	---
RIGHT OF WAY	---
CURB	---
EASEMENT	---
PROPERTY BOUNDARY	---
SANITARY LINE	---S---S---
STORM LINE	---ST---ST---
WATER LINE	---WAT---WAT---
SANITARY LATERAL	---SL---
STORM LATERAL	---SL---
WATER LATERAL	---WL---
STORM EASEMENT	---
OVERHEAD UTILITY	---OH---
WATER VALVE	⊠
CURB STOP	⊠
CATCHBASIN	⊠
FIRE HYDRANT	⊠
UTILITY POLE	⊠
PRECAST HEADWALL	⊠



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CONSULTANT

CLIENT

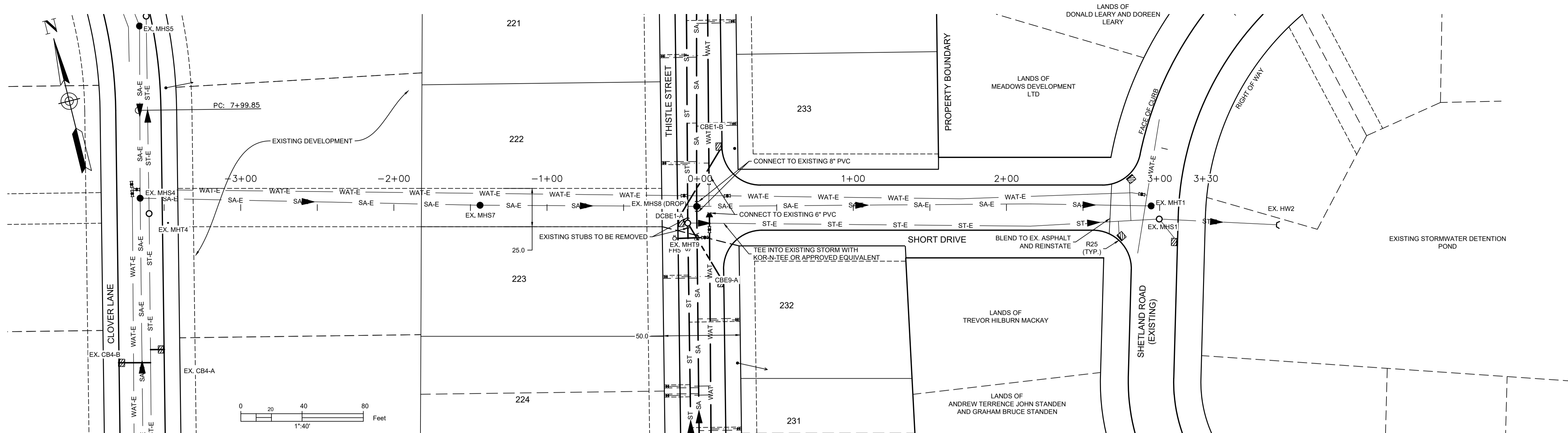
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

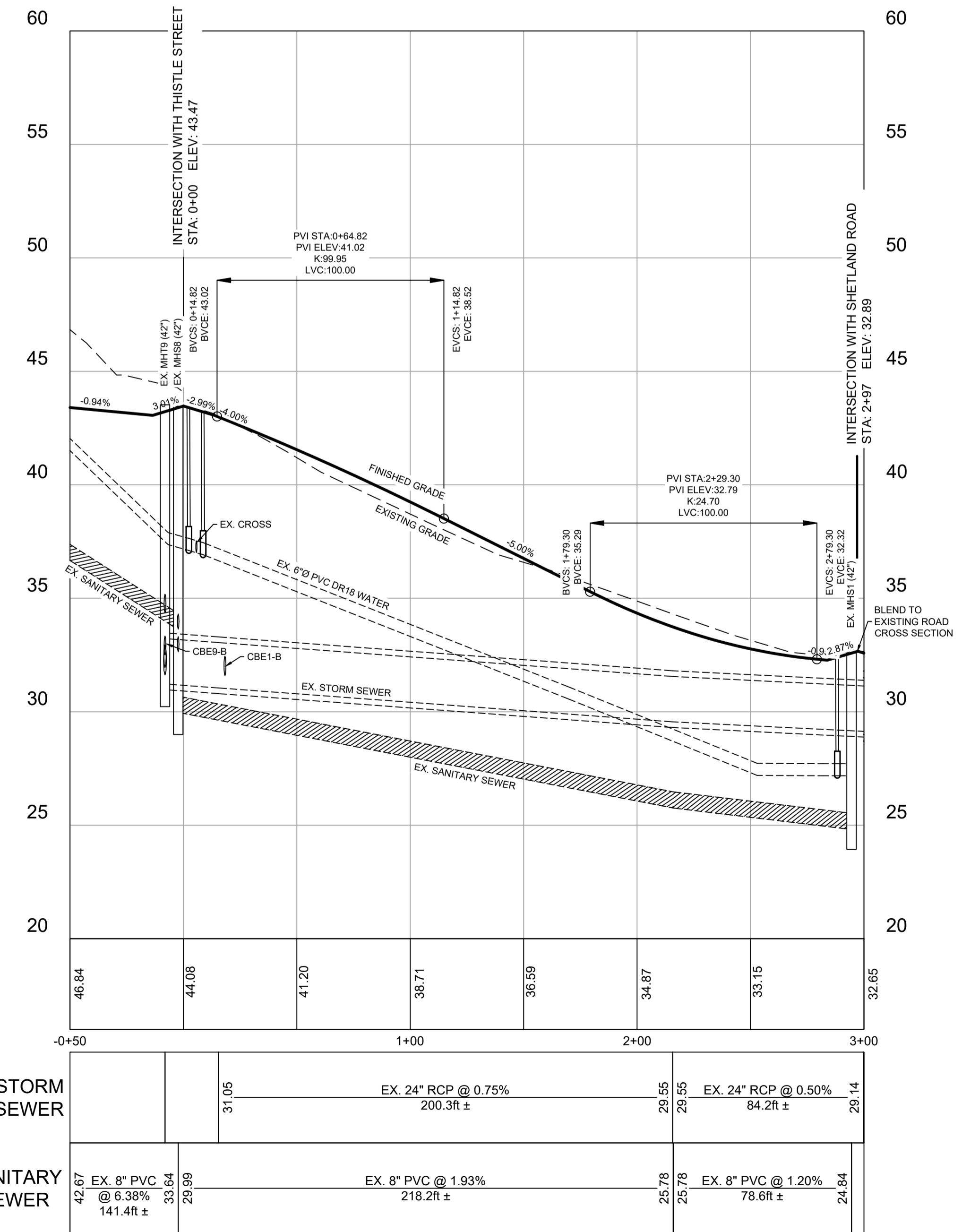
SHEET DESCRIPTION

**PLAN / PROFILE**  
THISTLE STREET  
STA. 19+00 TO 28+50

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 4 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



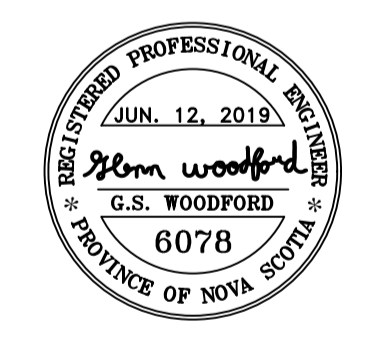
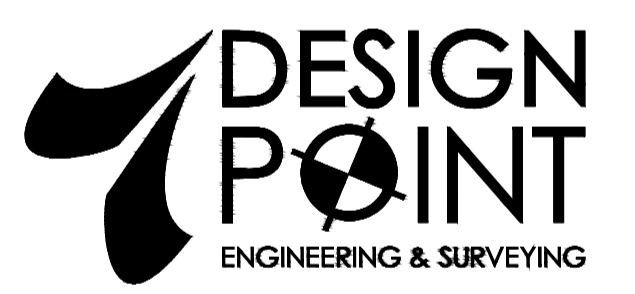
LEGEND	
DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●— MHS
STORM LINE	—○— ST —○— ST —○— MHS
WATER LINE	—●— WAT —●— WAT
SANITARY LATERAL	—————
STORM LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH—
WATER VALVE	⊠
FIRE HYDRANT	⊙
CURB STOP	⊛
UTILITY POLE	⊙
CATCHBASIN	⊠
PRECAST HEADWALL	⊠



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CONSULTANT



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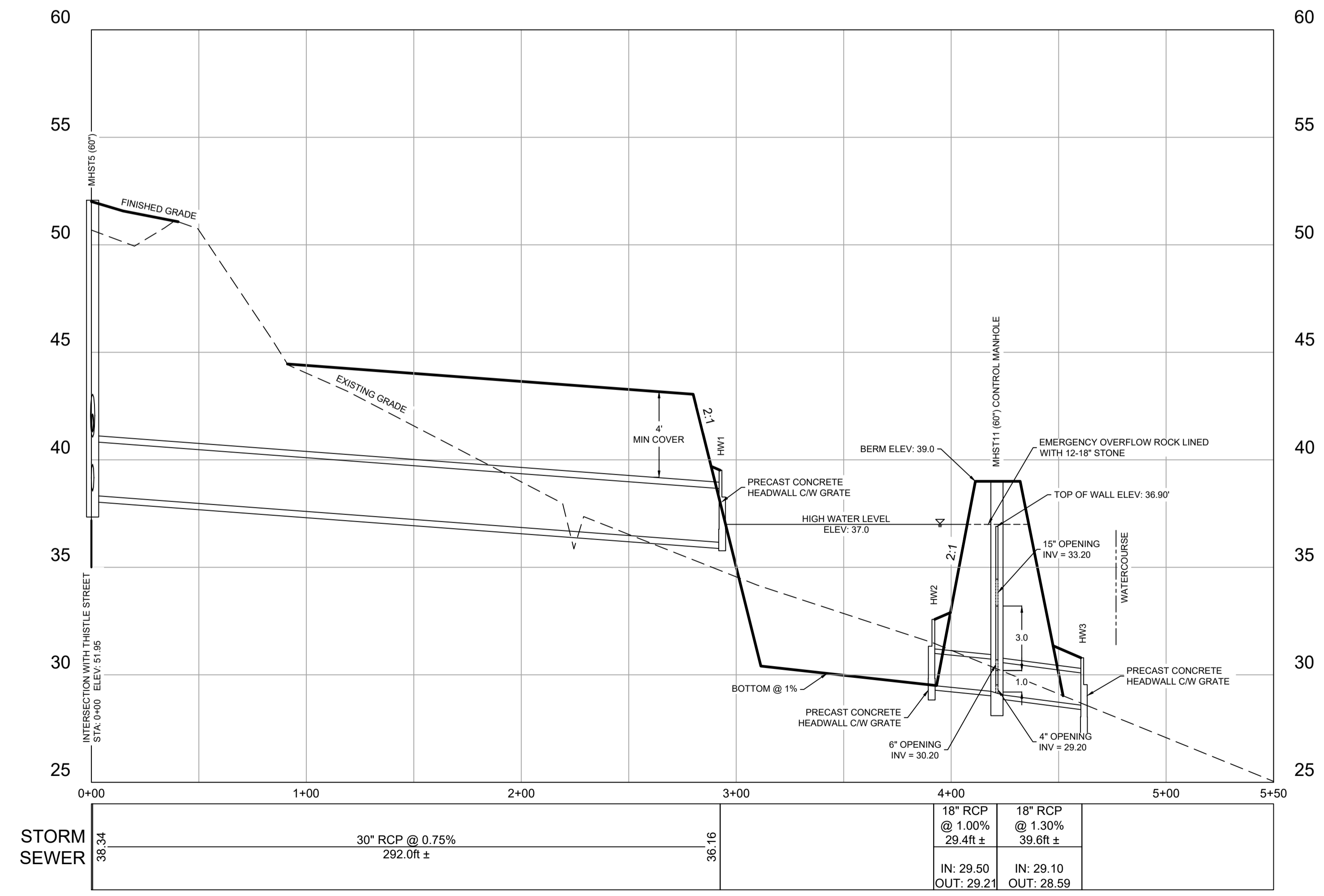
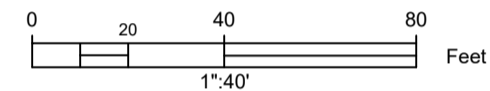
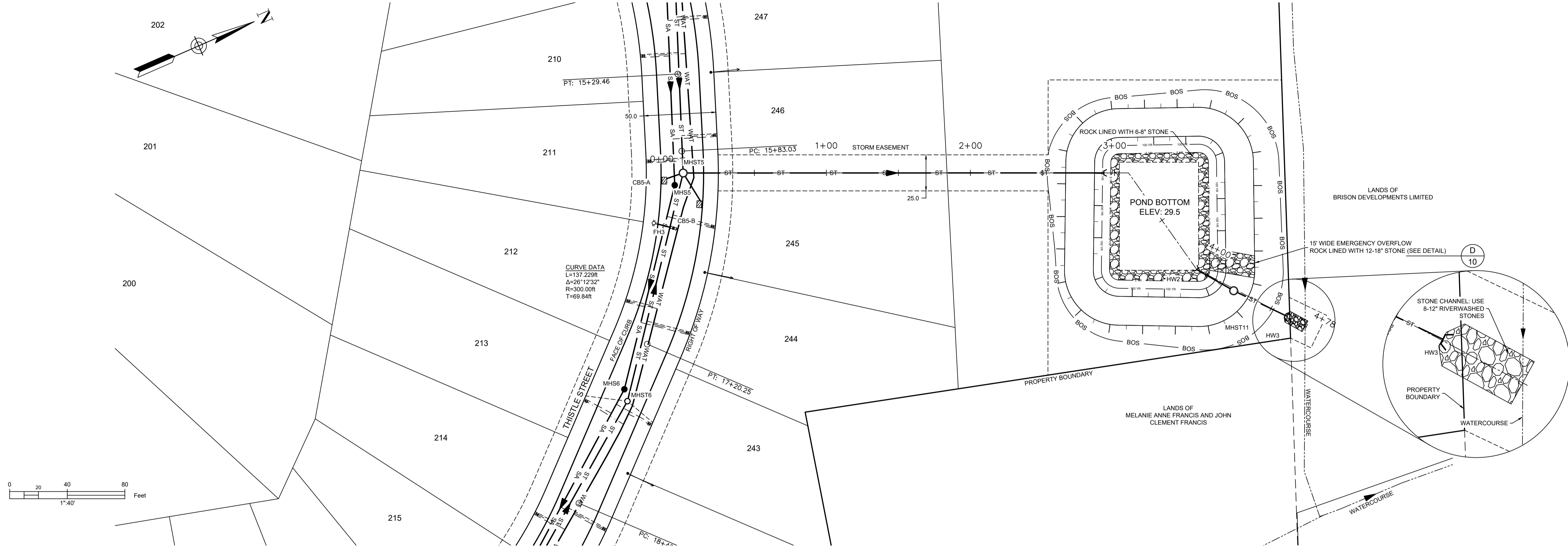
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

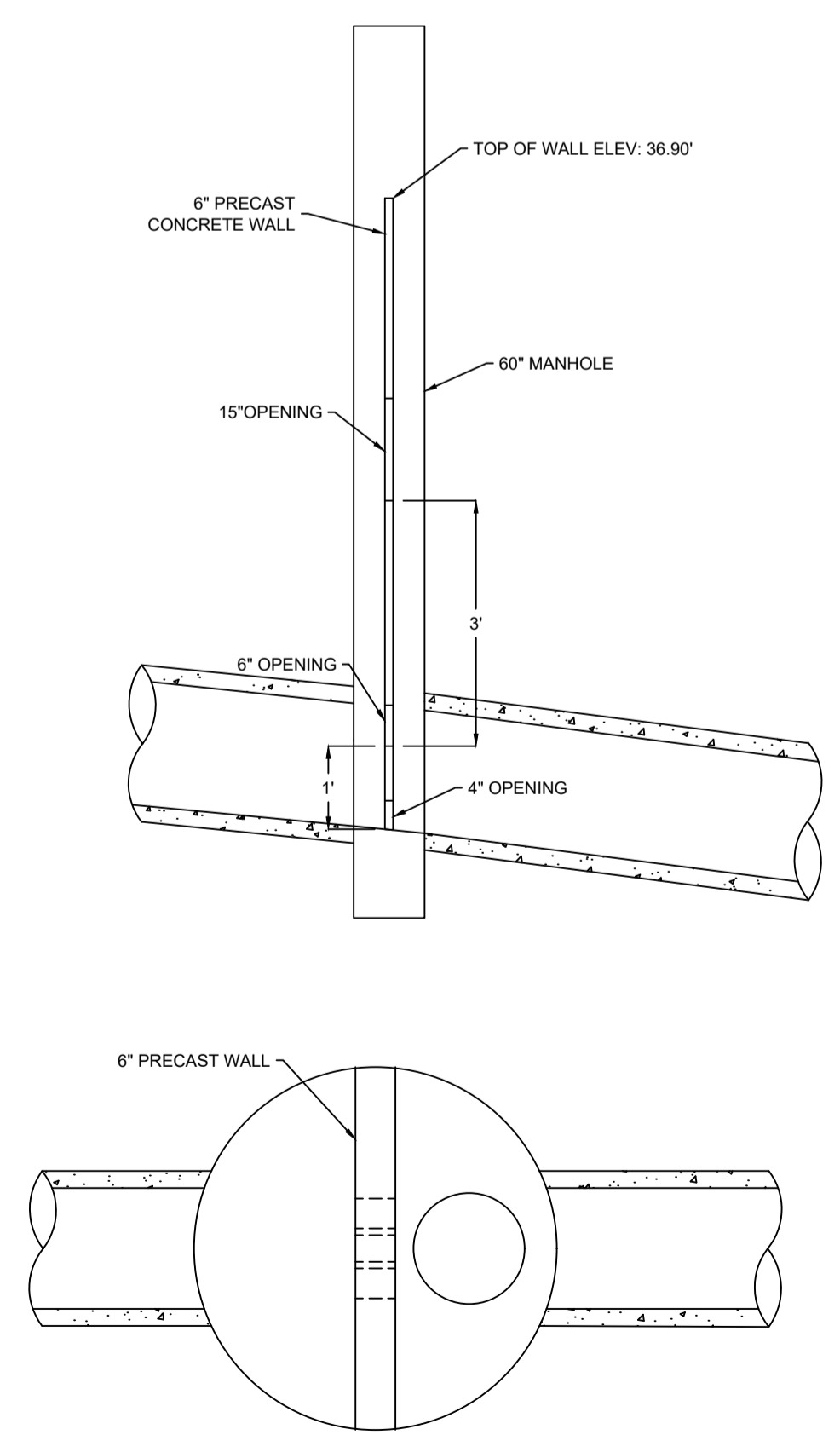
SHEET DESCRIPTION

**PLAN / PROFILE**  
SHORT DRIVE  
STA. 0+00 TO 3+00

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. <b>5 of 11</b>
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	



DETAIL FOR MHST11 (NTS)



LEGEND	
DESIGN GRADE	—————
EXISTING GRADE	- - - - -
CENTERLINE	—————
RIGHT OF WAY	—————
CURB	—————
EASEMENT	—————
PROPERTY BOUNDARY	—————
SANITARY LINE	—●— SA —●— SA —●—
STORM LINE	—○— ST —○— ST —○—
WATER LINE	—WAT— WAT —WAT—
SANITARY LATERAL	—————
STORM LATERAL	—————
WATER LATERAL	—————
STORM EASEMENT	—————
OVERHEAD UTILITY	—OH— OH —OH—
WATER VALVE	⊕ FIRE HYDRANT ⊕
CURB STOP	⊕ UTILITY POLE ⊕
CATCHBASIN	⊕ PRECAST HEADWALL ⊕

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CONSULTANT

DESIGN POINT  
ENGINEERING & SURVEYING

CLIENT

BRISON DEVELOPMENTS

PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

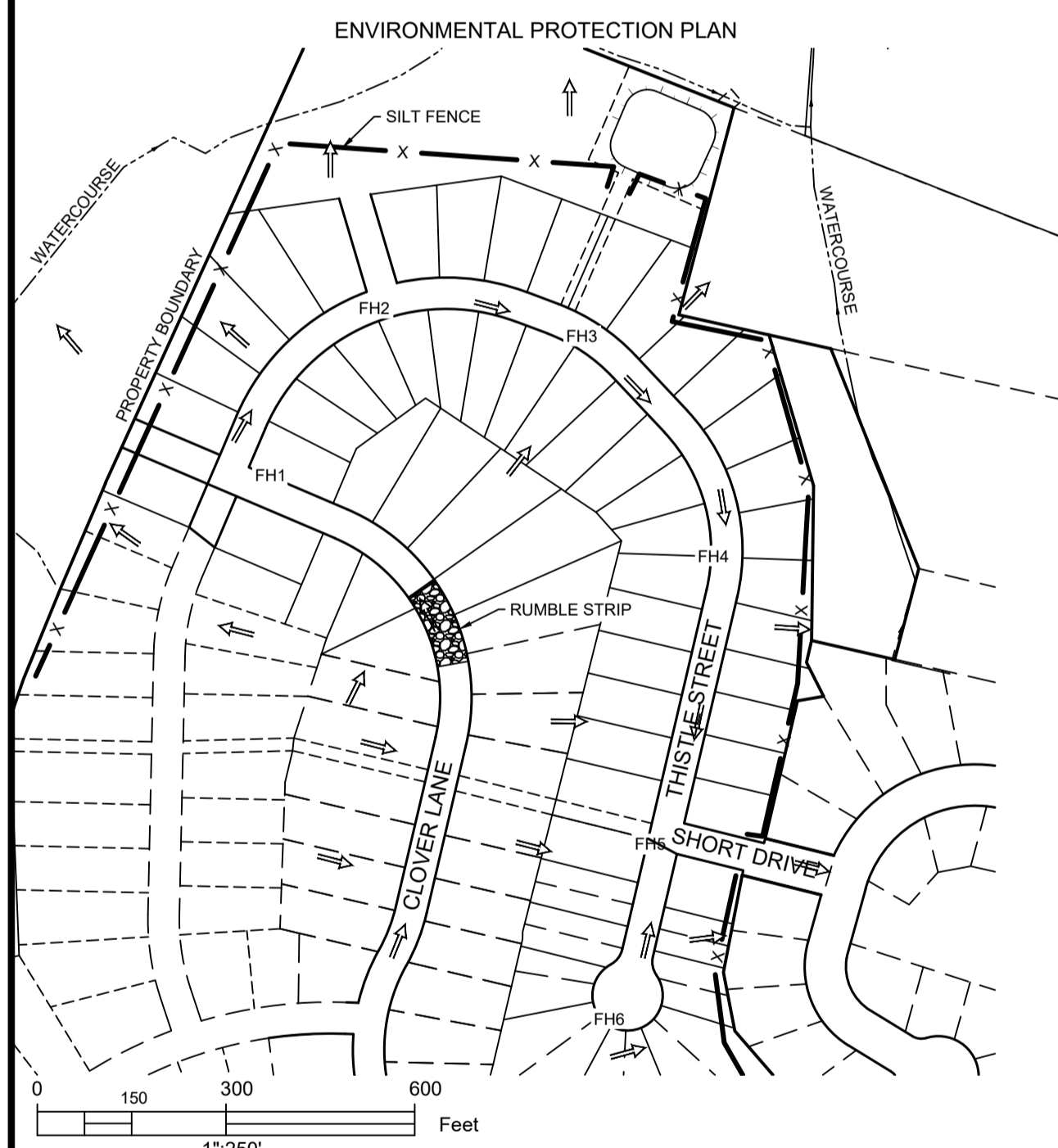
SHEET DESCRIPTION

**PLAN / PROFILE**  
STORM OUTFALL  
STA. 0+00 TO 5+50

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 6 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H, 1"=4' V	Filename 14-033CBase.dwg	

# GENERAL EROSION AND SEDIMENT CONTROL NOTES

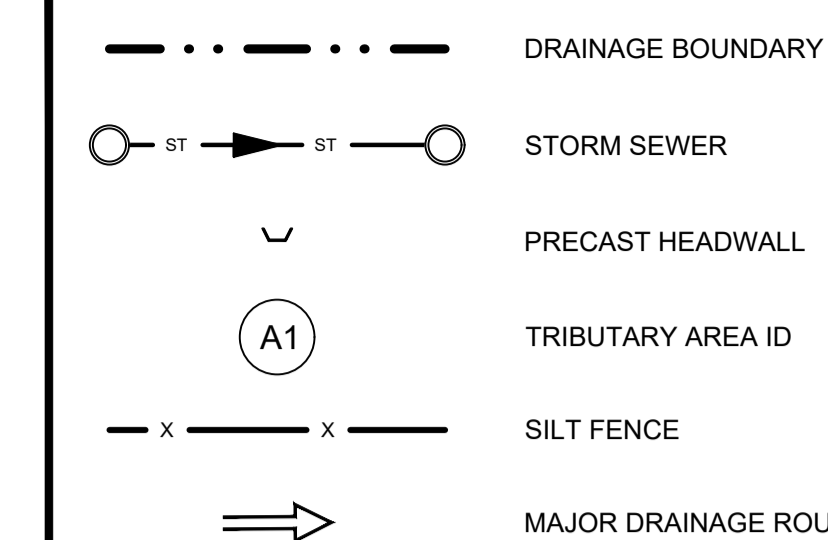
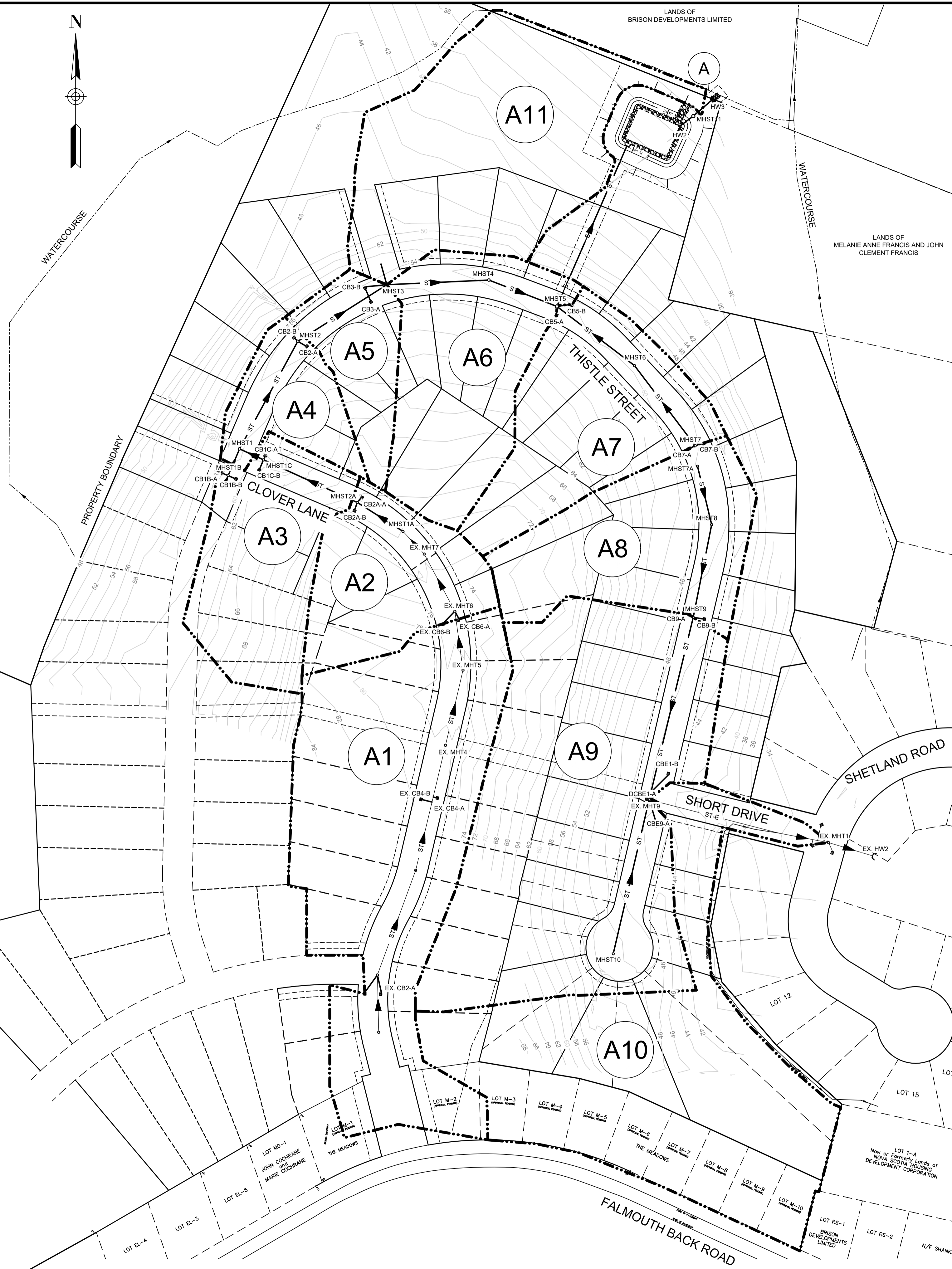
- EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
- ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF ENVIRONMENT REQUIREMENTS.
- CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS ([https://weather.gc.ca/canada\\_e.html](https://weather.gc.ca/canada_e.html)).
- CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
- TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
- CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
- EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
- CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
- SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
- SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
- UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
- TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
- ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
- STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.)
- SITE ACTIVITY TO ADHERE TO REQUIREMENTS OF HALIFAX REGIONAL MUNICIPALITY TOPSOIL BY-LAW.
- ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
- SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.



Catchment	Area (ac) ±	Catchment	Area (ac) ±
A1	4.75	A7	2.10
A2	1.47	A8	2.06
A3	1.75	A9	5.48
A4	0.81	A10	4.80
A5	0.83	A11	3.66
A6	2.16	Total	29.87

Storm	Flow to Point A (cfs)	
	Pre-Development	Post-Development
5 Year	6.20	5.87
10 Year	9.49	7.59
25 Year	14.7	11.72
50 Year	18.66	15.18
100 Year	22.84	18.95

Upstream MH	Downstream MH	Tributary Area	Tributary Area +/- (Ac)	Qd - Design Flow (cfs)	Pipe Size (in)	Pipe Slope (%)	Qc - Pipe Capacity (cfs)	Qd/Qc	Depth of Flow (in)	Max. Velocity (ft/s)
EX 7	1A	A1	4.75	7.55	18	1.50	12.89	0.59	9.8	7.80
1A	2A	A1	4.75	7.58	18	3.25	18.92	0.40	7.8	10.13
2A	1	A1-A2	6.23	10.29	18	4.95	23.38	0.44	8.3	12.81
1	2	A1-A3	7.98	12.63	21	0.70	13.26	0.95	15.6	6.32
2	3	A1-A4	8.78	14.02	24	0.70	18.91	0.74	14.4	6.61
3	4	A1-A5	9.61	15.36	24	0.80	20.20	0.76	14.4	7.11
4	5	A1-A5	9.61	15.36	24	1.00	22.65	0.68	13.2	7.75
6	5	A7	2.10	3.88	15	0.50	4.58	0.85	10.0	4.24
7	6	A7	2.10	3.95	15	0.50	4.57	0.86	10.6	4.25
5	Outfall	A1-A7	13.87	22.60	30	0.75	35.44	0.64	15.7	7.70
8	9	-	-	0.00	12	1.00	3.57	0.00	0.0	0.00
9	EX 9	A8	2.06	3.83	15	1.10	6.78	0.57	7.9	5.78
10	EX 9	-	-	0.00	12	1.85	4.85	0.00	0.0	0.00
EX 9	EX 1	A8-A9	7.54	13.83	24	0.88	18.59	0.74	15.1	6.57
EX 1	Outfall	A8-A10	12.34	22.55	30	0.50	29.00	0.78	19.4	6.53



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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER  
JUN. 12, 2019  
*Glen Woodford*  
G.S. WOODFORD  
6078  
PROVINCE OF NOVA SCOTIA

CLIENT

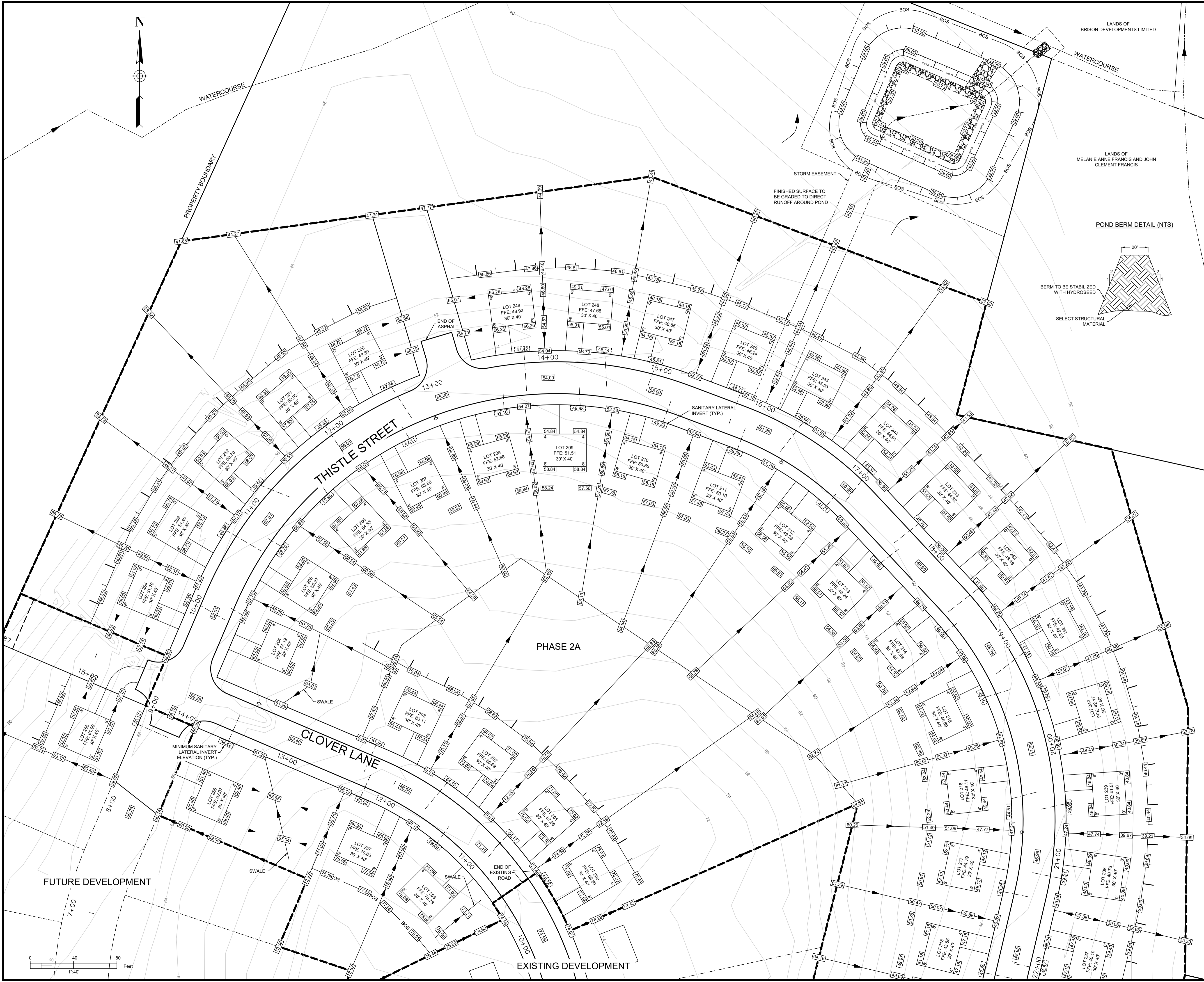
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**STORM DRAINAGE /  
ENVIRONMENTAL  
PROTECTION PLAN**

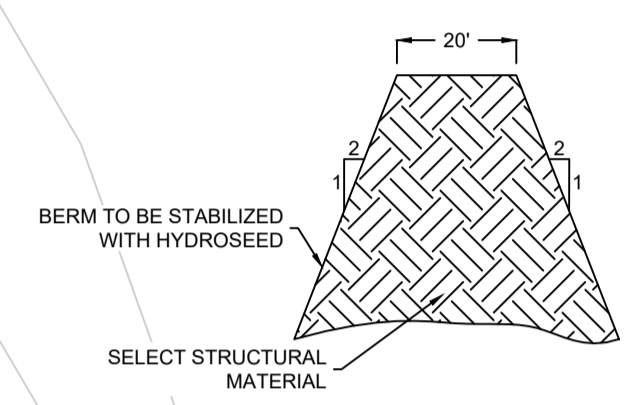
Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	7 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	1"=100' H	14-033CBase.dwg	



LEGEND	
CONTOUR	— 38
CURB	—
PROPERTY LINE WITH FLOW ARROW	→
TOP OF SLOPE	—
BOTTOM OF SLOPE	— BOS —
UTILITY POLE	● FIRE HYDRANT
FINISHED GRADE	42.00 SANITARY LATERAL INVERT 42.00

- NOTES:
1. CONTOURS BASED ON TOPOGRAPHIC SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTOUR INTERVAL = 2FT.
  2. MINIMUM LOT GRADE TO BE 2%.
  3. MAXIMUM LOT GRADE TO BE 3:1.
  4. INDIVIDUAL LOT GRADING DESIGN TO BE COMPLETED PRIOR TO HOUSE CONSTRUCTION BASED ON AS BUILT CONDITIONS.
  5. FLOOR ELEVATIONS TO BE CONFIRMED AS PART OF INDIVIDUAL LOT GRADING DESIGN BASED ON AS BUILT LATERAL LOCATIONS.
  6. FOUNDATION DRAIN INVERT ELEVATIONS AT BUILDING TO BE A MINIMUM OF 1" BELOW FFE.
  7. FOUNDATION DRAIN INVERT ELEVATIONS TO BE MINIMUM 2' ABOVE THE STORM MAIN CROWN AT THE POINT OF CONNECTION.

POND BERM DETAIL (NTS)



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CONSULTANT

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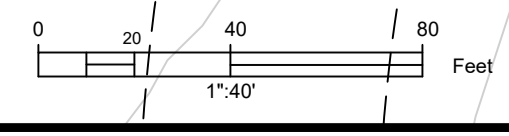
PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 1**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 8 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H	Filename 14-033CBase.dwg	





LEGEND			
CONTOUR	— 38 —		
CURB	———		
PROPERTY LINE WITH FLOW ARROW	———▶		
TOP OF SLOPE	———		
BOTTOM OF SLOPE	— BOS	— BOS —	
UTILITY POLE	●	FIRE HYDRANT	⊛
FINISHED GRADE	42.00	SANITARY LATERAL INVERT	42.00

- NOTES:
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CONSULTANT

**DESIGN POINT**  
ENGINEERING & SURVEYING

REGISTERED PROFESSIONAL ENGINEER  
JUN. 12, 2019  
G.S. WOODFORD  
6078  
PROVINCE OF NOVA SCOTIA

CLIENT

**BRISON DEVELOPMENTS**

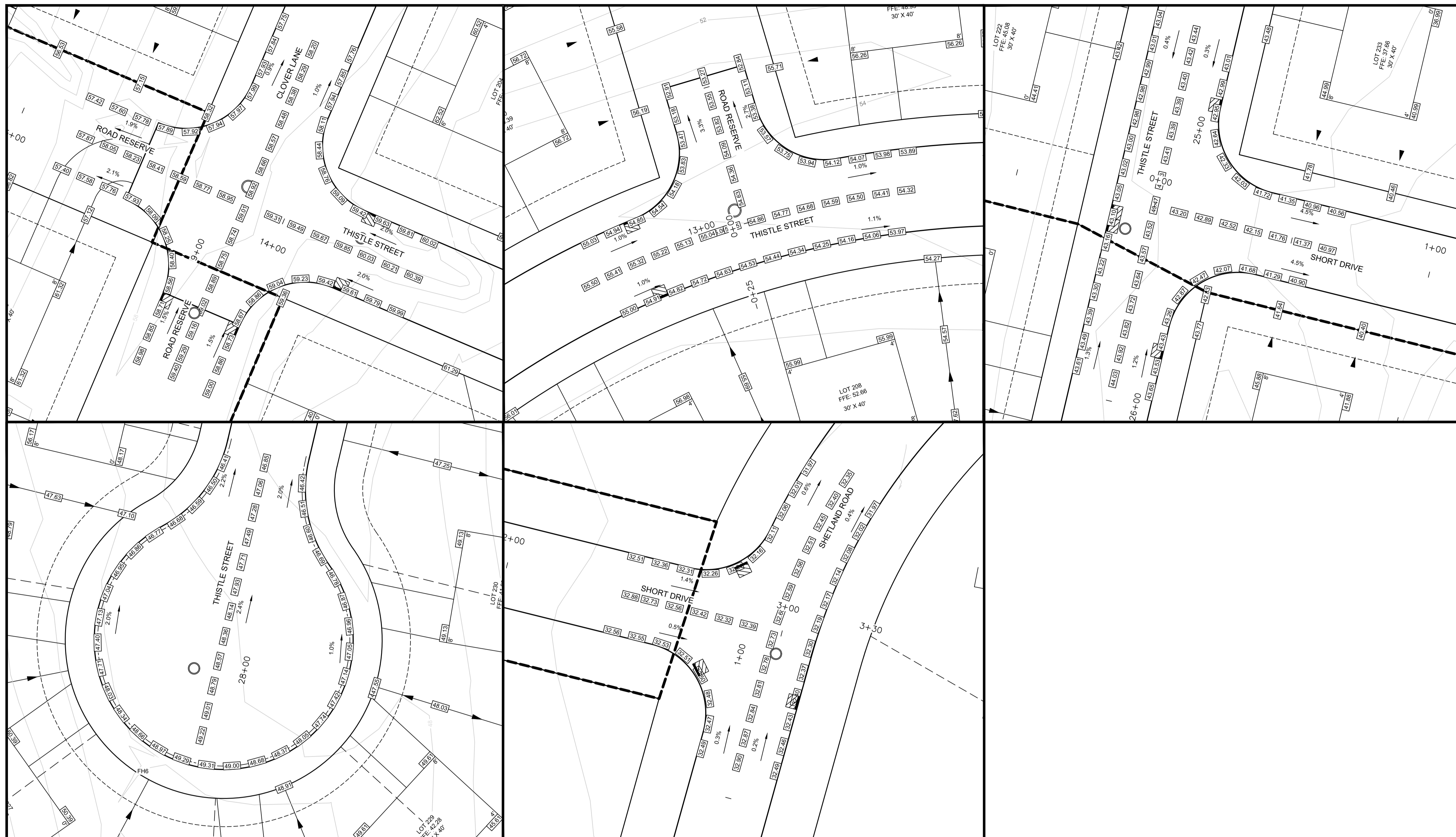
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PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 2**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. 9 of 11
Date of 1st Issue MAR. 27, 2015	Scale 1"=40' H	Filename 14-033CBase.dwg	

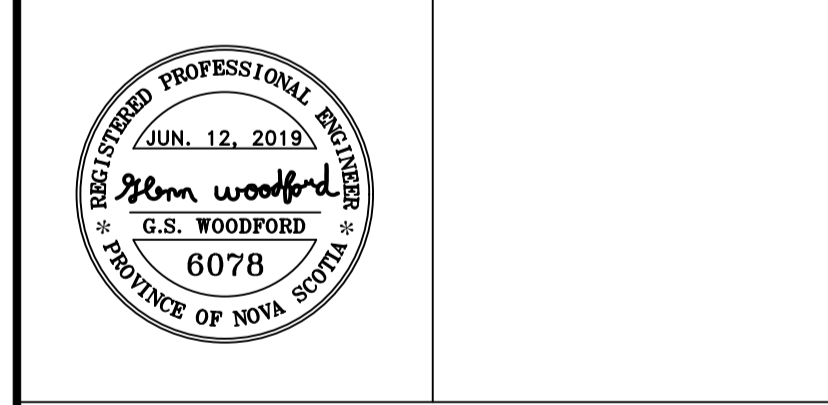
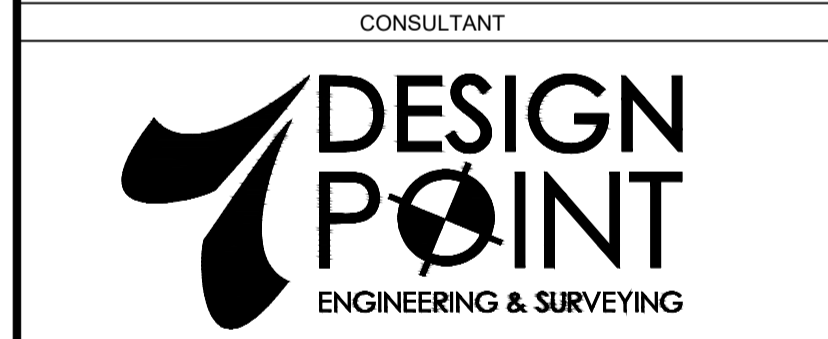


LEGEND			
CONTOUR	— 38 —		
CURB	———		
PROPERTY LINE WITH FLOW ARROW	———▶		
TOP OF SLOPE	———▲		
BOTTOM OF SLOPE	———▼		
UTILITY POLE	●	○	☆
FINISHED GRADE	42.00	SANITARY LATERAL	42.00
		INVERT	

- NOTES:
1. CONTOURS BASED ON TOPOGRAPHIC SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTOUR INTERVAL = 2FT.
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PHASE 2**  
FALMOUTH, NOVA SCOTIA

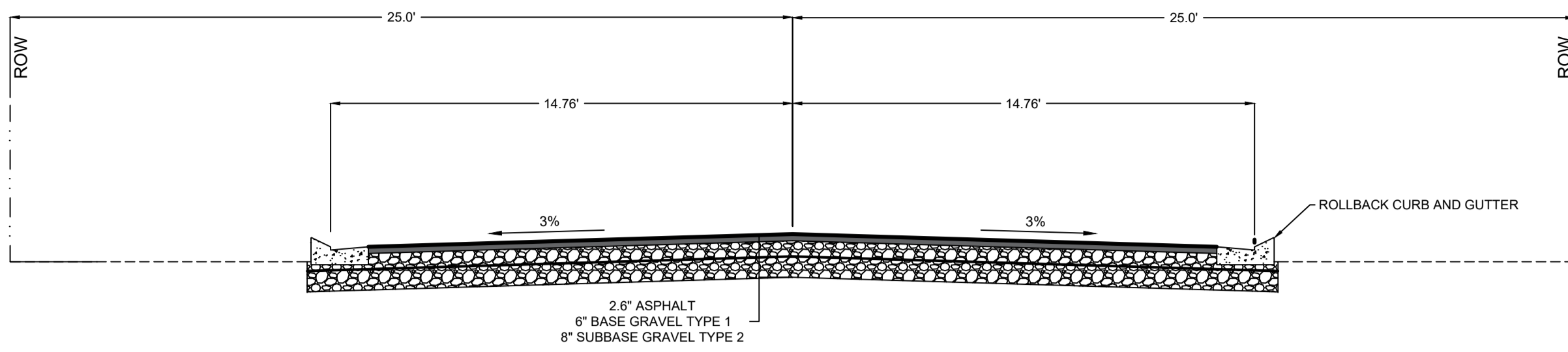
SHEET DESCRIPTION

**GRADING PLAN  
- SHEET 3**

Drawn A. SKETCHLEY	Engineer G. WOODFORD	Project No. 14-033	Drawing No. <b>10 of 11</b>
Date of 1st Issue MAR. 27, 2015	Scale 1"=20' H	Filename 14-033CBase.dwg	

TYPICAL ROAD CROSS SECTION

A  
11

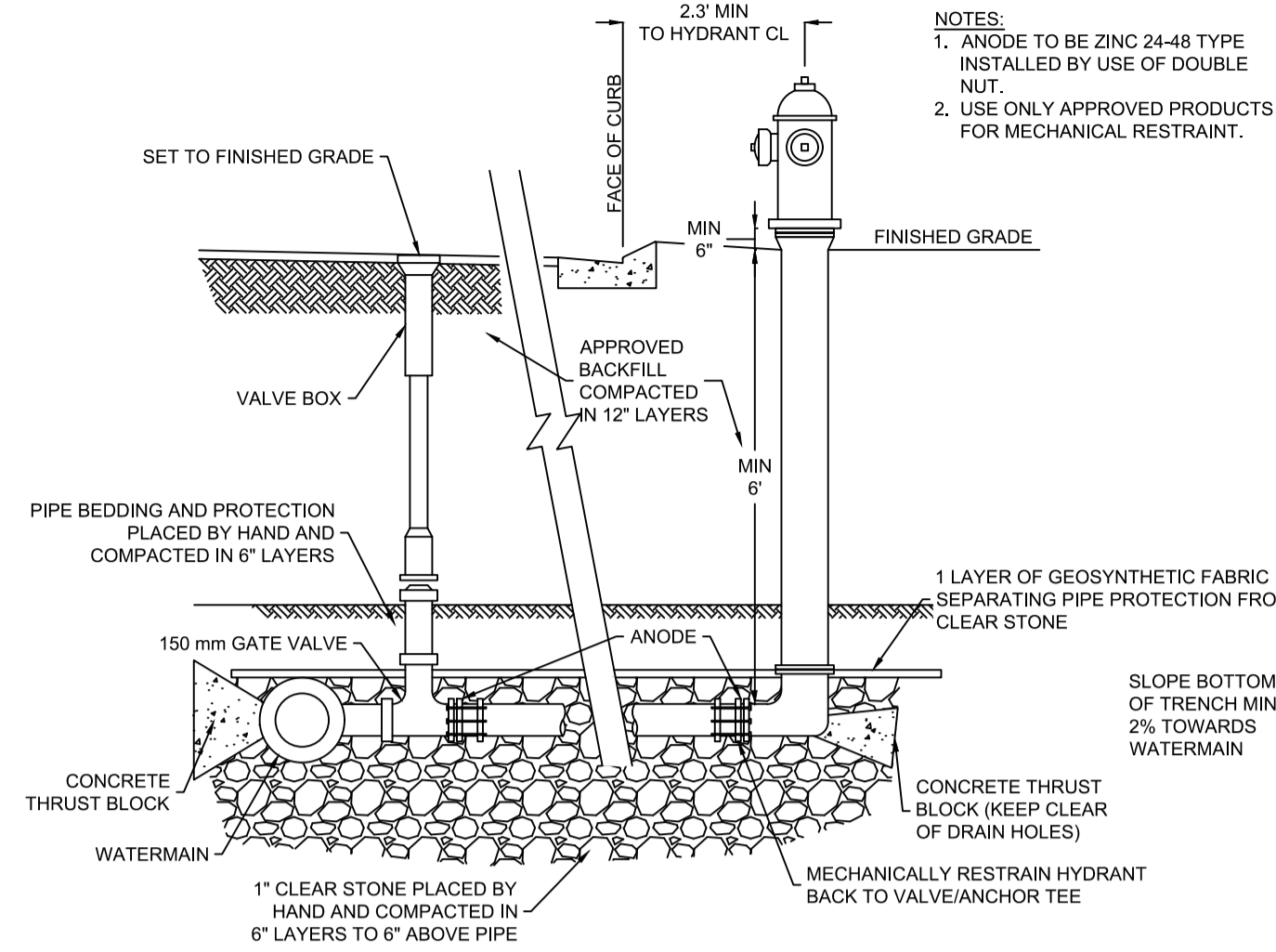


GENERAL CONSTRUCTION NOTES:

- SAFETY IS PARAMOUNT AND THE CONTRACTOR MUST USE SAFE WORK PRACTICES IN ACCORDANCE WITH THE NOVA SCOTIA OCCUPATIONAL HEALTH AND SAFETY ACT.
- MDWH'S MUNICIPAL SERVICES SPECIFICATION MANUAL SHALL FORM PART OF THE DESIGN AND SHALL BE ADHERED TO AND THE CONTRACTOR SHALL HAVE A COPY OF THE MANUAL ON SITE DURING CONSTRUCTION.
- ALL WORKS TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR MUNICIPAL SERVICES" PREPARED JOINTLY BY THE NOVA SCOTIA ROADBUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA (CURRENT EDITION).
- ALL WORKS TO BE IN ACCORDANCE WITH REQUIREMENTS OF ALL PERMITS AND REGULATIONS AS ISSUED BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- CONTRACTOR TO NOTIFY DESIGNPOINT AND THE MUNICIPALITY OF THE DISTRICT OF WEST HANTS REGARDING CONSTRUCTION SCHEDULING PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILT LADEN RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURES MAY BE OBTAINED FROM 'EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES' (CURRENT EDITION), BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
- ALL DISTURBED AREAS NOT STABILIZED BY GRAVEL, ASPHALT, CONCRETE, OR SOD ARE TO BE STABILIZED WITH HYDROSEED AND HAY. HYDROSEED AREAS THAT DO NOT SHOW ACTIVE GROWTH WITHIN THE FIRST GROWING SEASON TO BE RE-STABILIZED.
- MATERIALS SHALL NOT BE SUBSTITUTED UNLESS PRIOR APPROVAL IS PROVIDED BY THE ENGINEER.
- SHOP DRAWINGS TO BE PROVIDED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS AND TO COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
- LOCATIONS OF EXISTING INFRASTRUCTURE IS BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING INFRASTRUCTURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR TO ALLOW A 1 WEEK REVIEW PERIOD BY THE ENGINEER.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SUCH AS NOVA SCOTIA POWER, BELL ALIANT, EASTLINK, AND THE MUNICIPALITY. CONTRACTOR TO COORDINATE ALL WORK WITH THE NECESSARY UTILITIES.
- PERMISSION FROM LANDOWNER(S) REQUIRED TO WORK ON PRIVATE PROPERTY.
- ALL ELEVATIONS ARE IMPERIAL AND GEODETIC. TOPOGRAPHICAL SURVEY CONDUCTED BY DESIGNPOINT ON NOVEMBER 20, 2014. CONTRACTOR TO CONTACT DESIGNPOINT FOR CONSTRUCTION LAYOUT CONTROL INFORMATION 2 WEEKS PRIOR TO CONSTRUCTION.
- ALL EARTHWORK, TRENCH WORK, PIPE BEDDING, AND SURFACE TREATMENT TO BE REVIEWED AND CERTIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- DRAWINGS SUBJECT TO CONSTRUCTION APPROVAL BY THE APPLICABLE APPROVAL AGENCIES (i.e. THE MUNICIPALITY AND NOVA SCOTIA DEPARTMENT OF ENVIRONMENT) PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES REQUIRED FOR THE PROJECT.
- INSULATION TO BE 50 mm THICK HI40 RIGID STYROFOAM (ROAD AND TRAFFIC RATED).
- CONTRACTOR MAY REQUEST GRADE ADJUSTMENTS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER AND APPLICABLE APPROVAL AGENCIES. CONTRACTOR RESPONSIBLE FOR COSTS ASSOCIATED WITH DRAWING REVISIONS AND APPROVALS.
- CATCHBASINS TO BE 42" Ø PRECAST CONCRETE. WATER MAIN TO BE PVC DR18 AND SANITARY MAIN TO BE PVC DR35. STORM TO BE PVC DR35 (8" - 15") AND REINFORCED CONCRETE TO CSA A257.2 (18" AND LARGER).
- ALL STORM AND SANITARY SERVICE LATERALS TO HAVE A MINIMUM SLOPE OF 2%.
- ALL MANHOLE FRAMES AND COVERS ARE TO BE IMP TYPE R60 (IMP R12 FOR PARKS AND EASEMENTS) AND WILL INCLUDE A 2" RISER AS MANUFACTURED BY IMP.

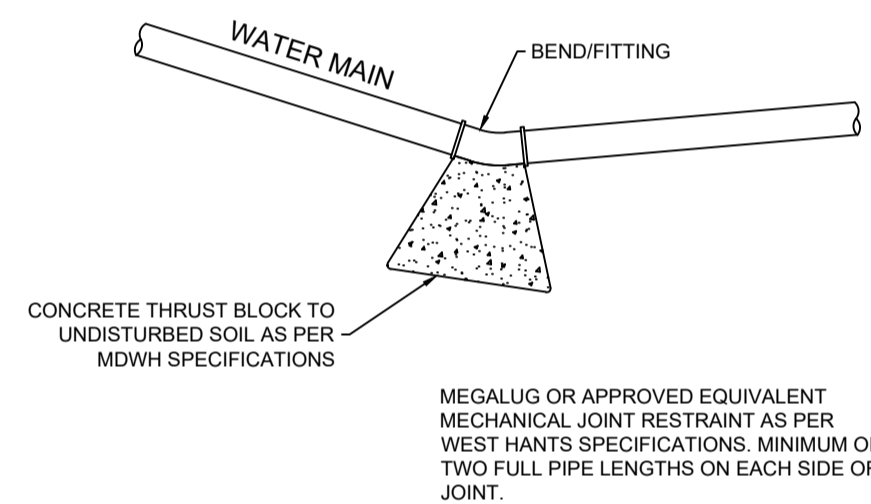
STANDARD HYDRANT INSTALLATION

B  
11



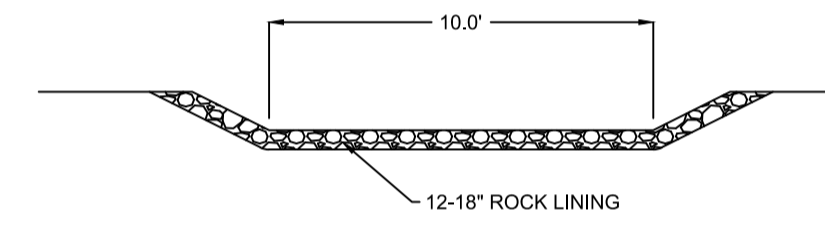
THRUST BLOCK DETAIL (NTS)

C  
11



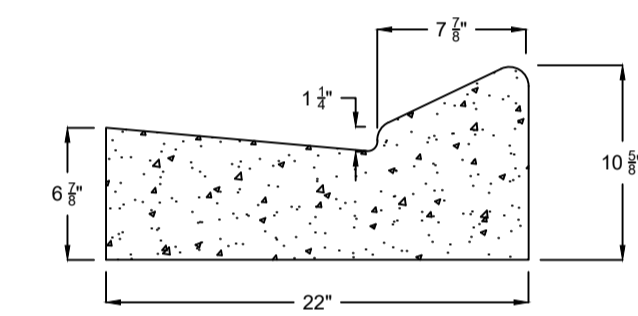
STORMWATER POND EMERGENCY OVERFLOW DETAIL (NTS)

D  
11



ROLLBACK CURB AND GUTTER DETAIL (NTS)

G  
11

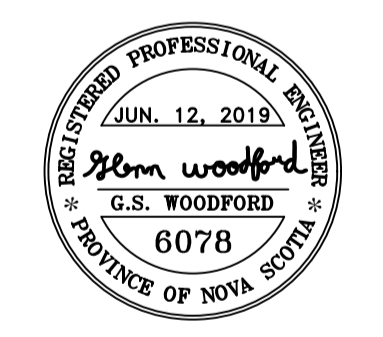
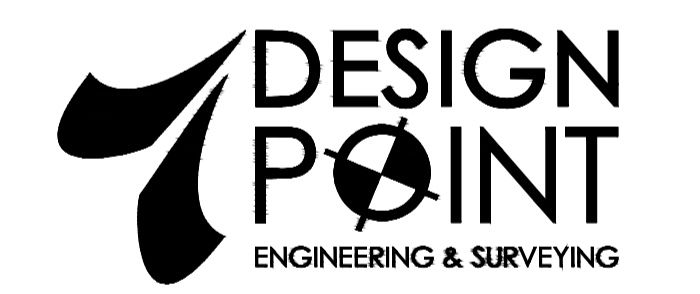


NOTE:  
CURB AND GUTTER SHALL BE PLACED ON AN APPROVED GRANULAR BASE HAVING A MINIMUM DEPTH OF 6"

ISSUED FOR REVIEW  
NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
3	JUN. 12, 2019	REVISED AS PER MDWH COMMENTS
2	NOV. 04, 2015	REVISED AS PER MDWH COMMENTS
1	MAR. 27, 2015	ISSUED FOR REGULATORY REVIEW

CONSULTANT



CLIENT



PROJECT DESCRIPTION

THE MEADOWS  
PHASE 2  
FALMOUTH, NOVA SCOTIA

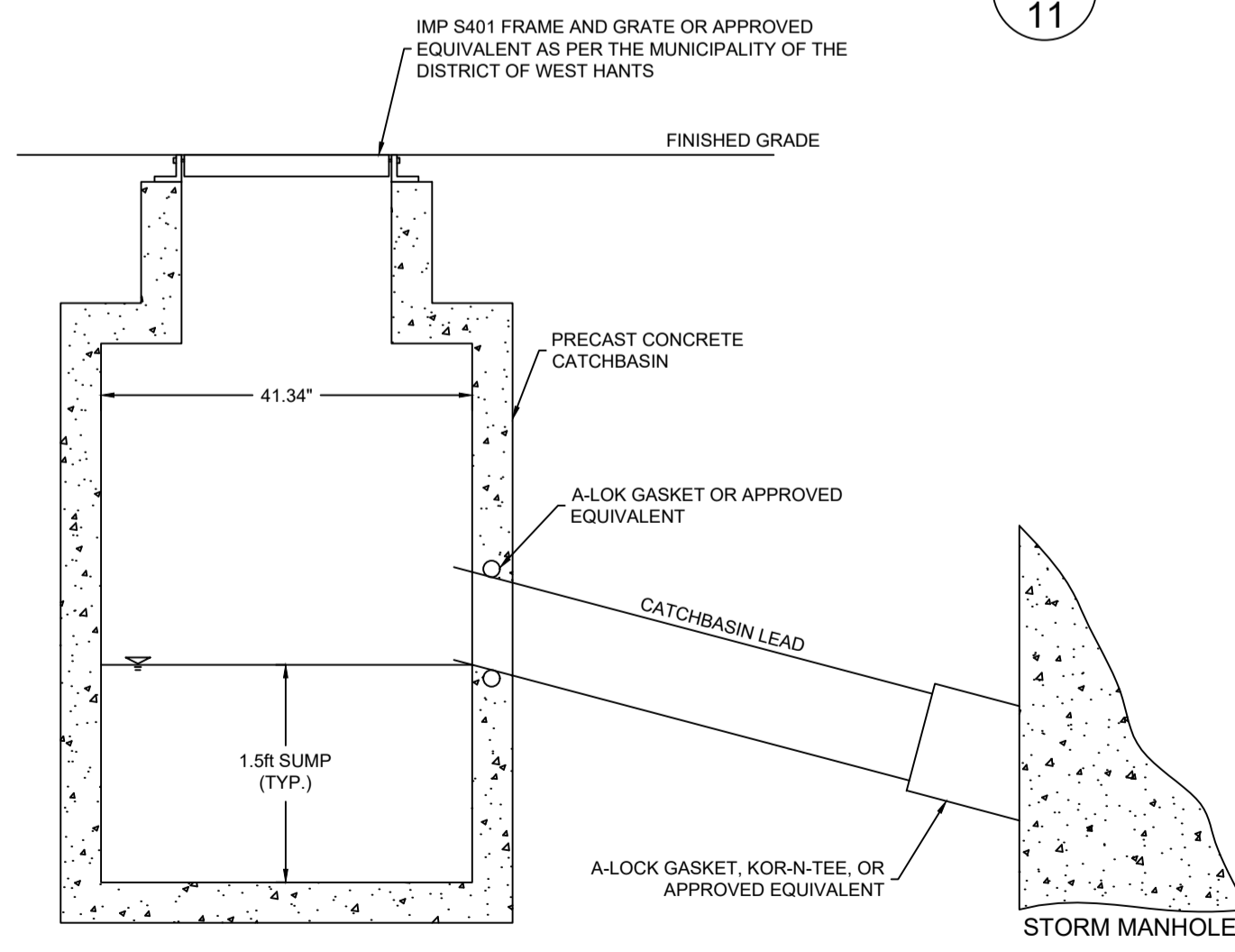
SHEET DESCRIPTION

CONSTRUCTION NOTES  
AND DETAILS

Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	11 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	NTS	14-033CBase.dwg	

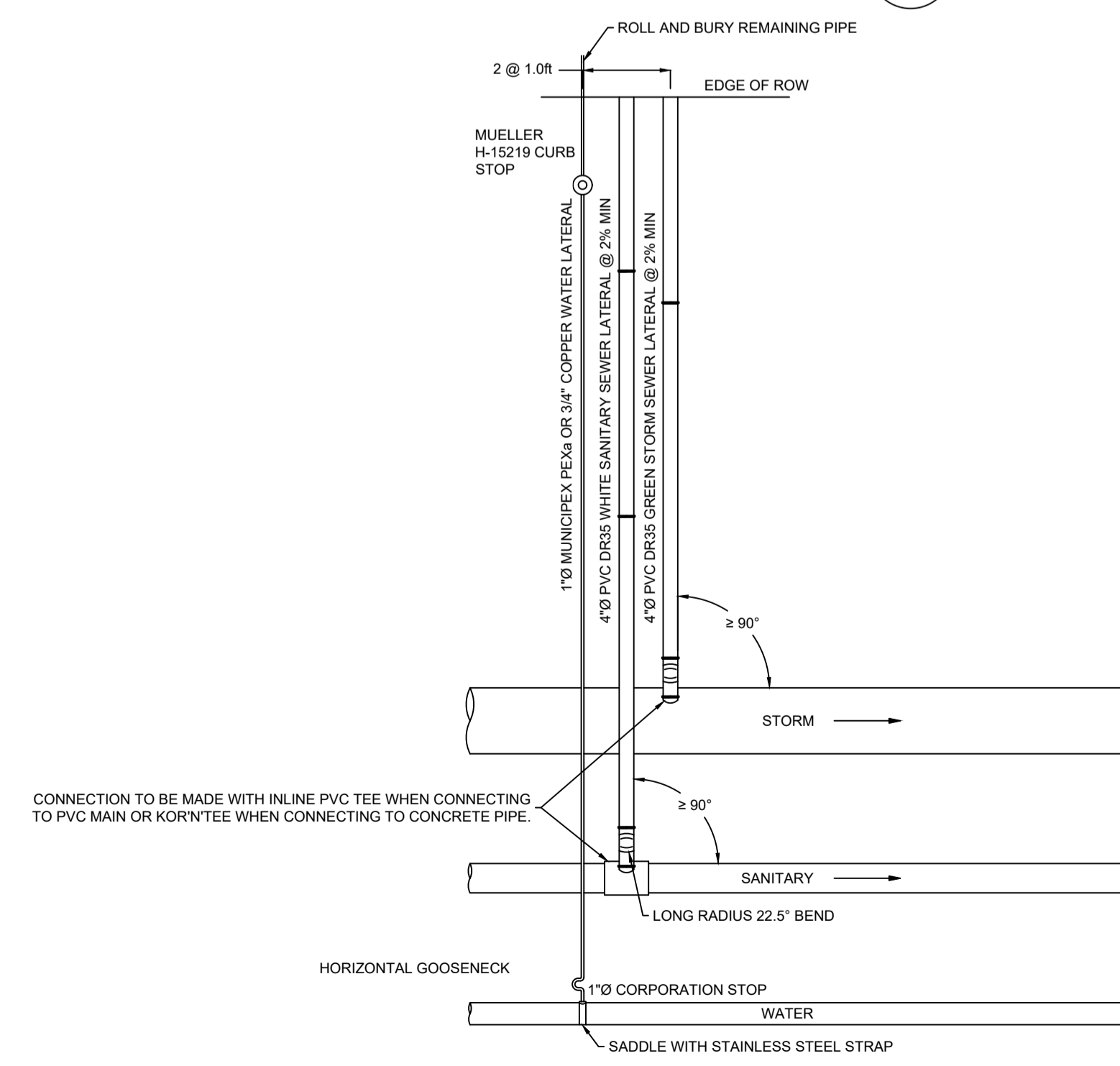
TYPICAL CATCHBASIN DETAIL (NTS)

E  
11



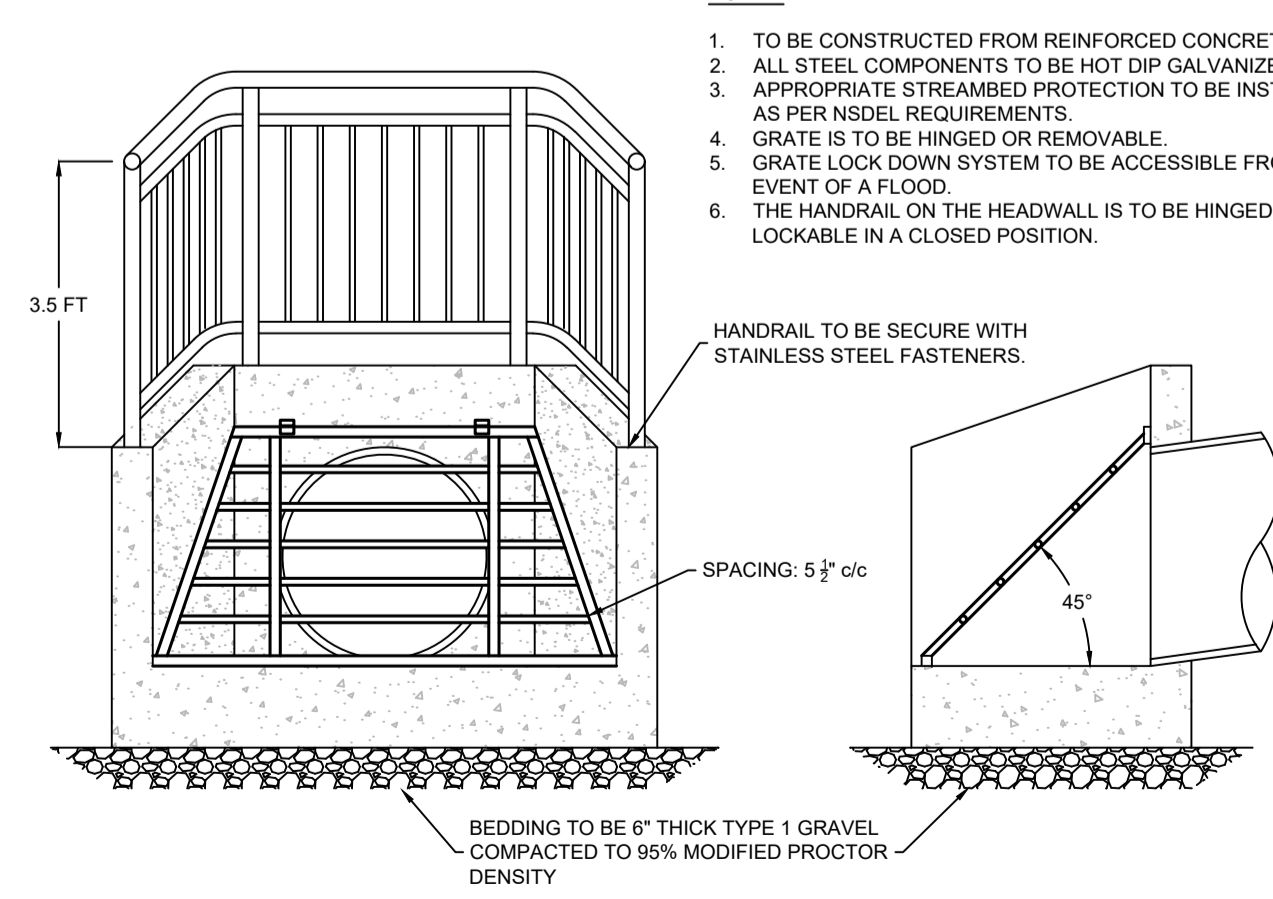
SERVICE LATERAL DETAIL (NTS)  
SEE MDWH DETAIL #10

F  
11



STORM OUTFALL DETAIL (NTS)

F  
11



- NOTES:
- TO BE CONSTRUCTED FROM REINFORCED CONCRETE.
  - ALL STEEL COMPONENTS TO BE HOT DIP GALVANIZED AFTER FABRICATION.
  - APPROPRIATE STREAMBED PROTECTION TO BE INSTALLED DOWNSTREAM AS PER NSDEL REQUIREMENTS.
  - GRATE IS TO BE HINGED OR REMOVABLE.
  - GRATE LOCK DOWN SYSTEM TO BE ACCESSIBLE FROM DRY LAND IN THE EVENT OF A FLOOD.
  - THE HANDRAIL ON THE HEADWALL IS TO BE HINGED OR REMOVABLE, AND LOCKABLE IN A CLOSED POSITION.

April 1, 2020

**Brison Developments**

411 Gabriel Road  
Falmouth, Nova Scotia B0P 1L0  
Attention: Mitch Brison

**RE: The Meadows Phase 2 – Storm Drainage System**

DesignPoint Project #: 14-033

Further to our discussion, I understand that you are interested in changing the large 75 ft wide R1 lots to semi-detached, townhomes, or small R1 lots. The changes apply to The Meadows Phase 2 including Thistle Street, the extension of Clover Lane, and Short Drive.

The storm drainage system as designed in my latest drawing package for this project (dated June 12, 2019, Rev 3) is adequate to accommodate these changes to the development.

For reference, please refer to the Storm Drainage / Environmental Protection Plan, Sheet 7 of 11, Revision 3, dated June 12, 2019 (included with this letter).

If you have any questions, please feel free to contact me.

Thank you,

**DesignPoint Engineering & Surveying Ltd.**

A handwritten signature in blue ink that reads "Glenn Woodford".

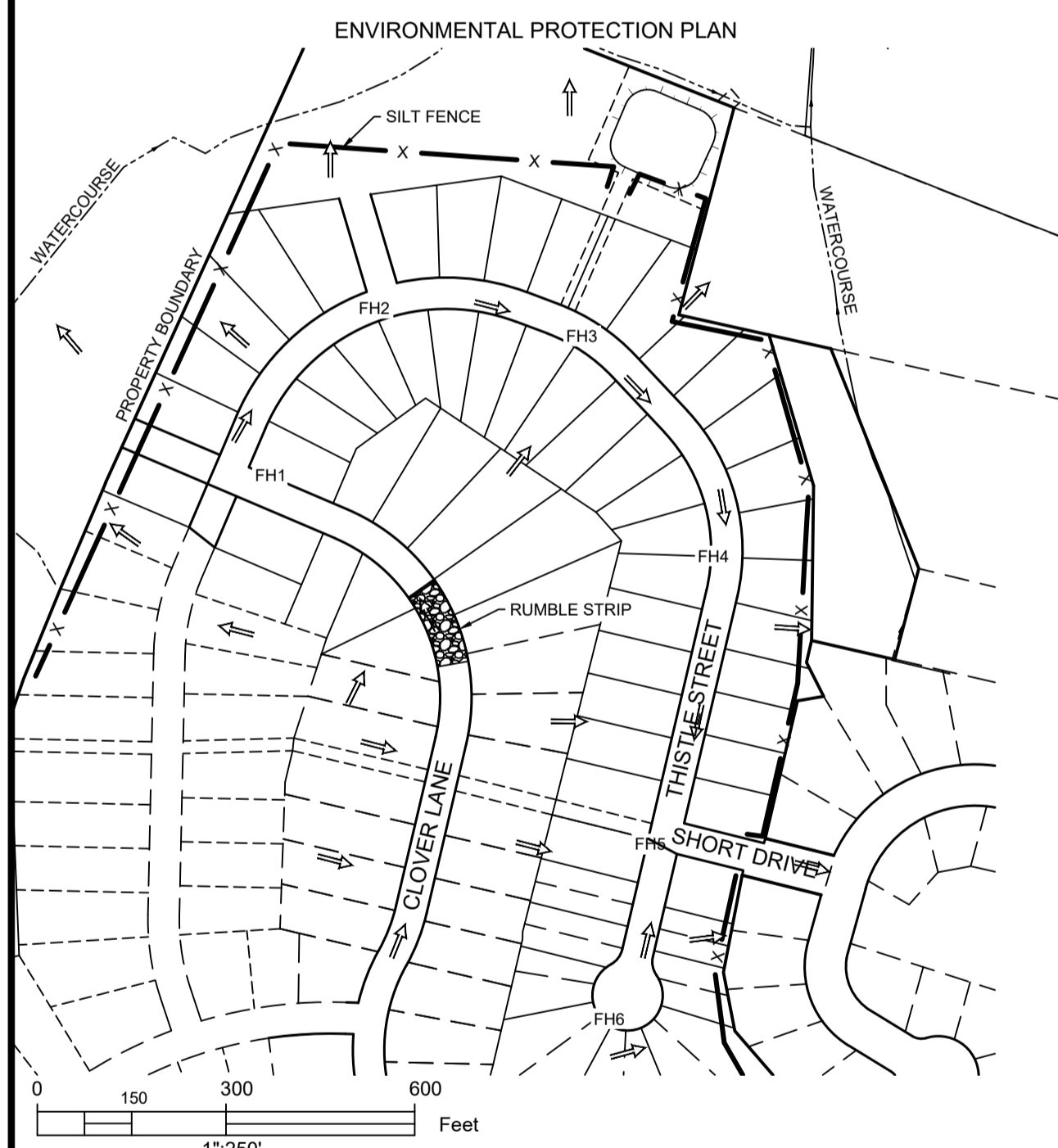
Glenn Woodford, P.Eng.  
Senior Engineer & Principal

GSW/alc

Enclosures: Storm Drainage / Environmental Protection Plan

# GENERAL EROSION AND SEDIMENT CONTROL NOTES

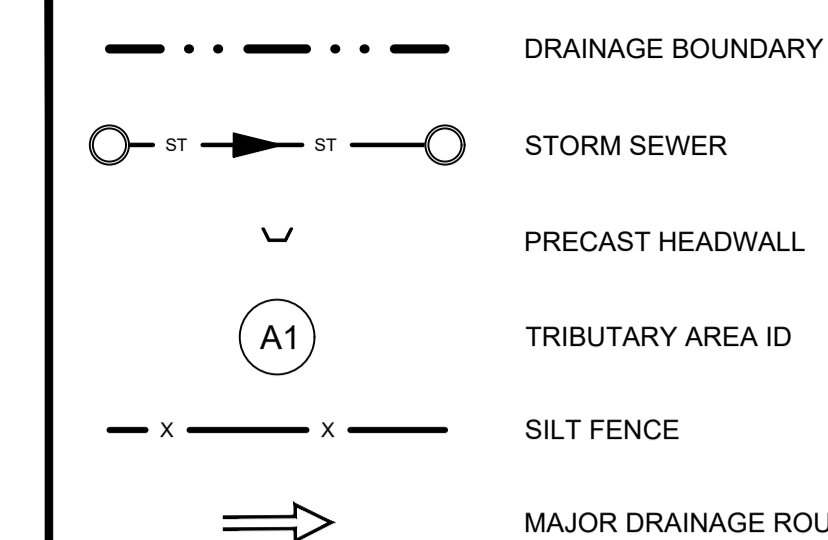
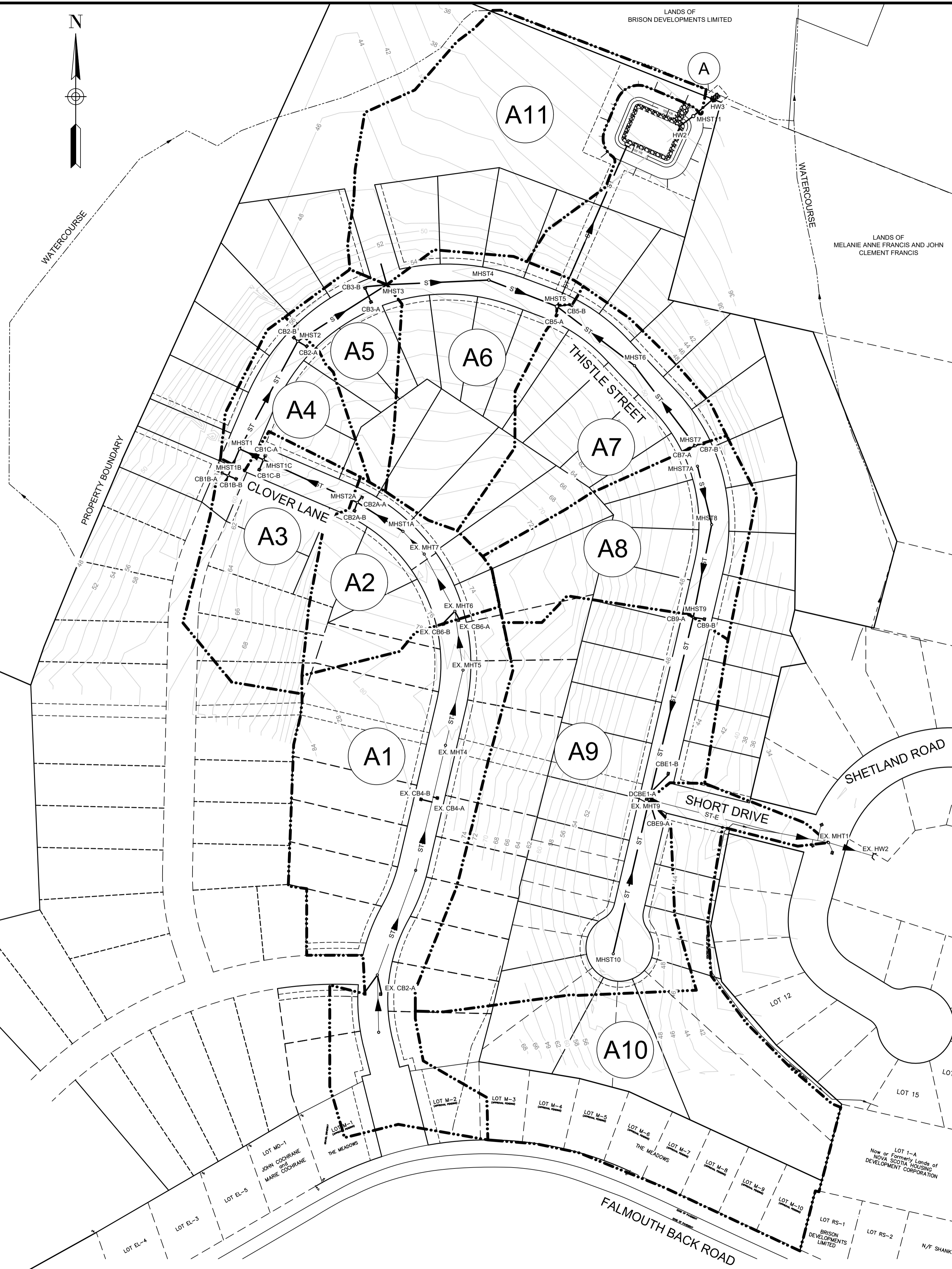
1. EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
2. ALL WORKS TO BE IN ACCORDANCE WITH NOVA SCOTIA DEPARTMENT OF ENVIRONMENT REQUIREMENTS.
3. CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
4. CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE. CONSTRUCTION PROCEDURES CAN BE FOUND IN THE CURRENT EDITION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES" BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
5. CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS ([https://weather.gc.ca/canada\\_e.html](https://weather.gc.ca/canada_e.html)).
6. CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
7. TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
8. CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
9. CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
10. EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
11. CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
12. SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
13. SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER. LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
14. UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
15. TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
16. ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
17. VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
18. STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.)
19. SITE ACTIVITY TO ADHERE TO REQUIREMENTS OF HALIFAX REGIONAL MUNICIPALITY TOPSOIL BY-LAW.
20. ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
21. SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.



Catchment	Area (ac) ±	Catchment	Area (ac) ±
A1	4.75	A7	2.10
A2	1.47	A8	2.06
A3	1.75	A9	5.48
A4	0.81	A10	4.80
A5	0.83	A11	3.66
A6	2.16	Total	29.87

Storm	Flow to Point A (cfs)	
	Pre-Development	Post-Development
5 Year	6.20	5.87
10 Year	9.49	7.59
25 Year	14.7	11.72
50 Year	18.66	15.18
100 Year	22.84	18.95

Upstream MH	Downstream MH	Tributary Area	Tributary Area +/- (Ac)	Qd - Design Flow (cfs)	Pipe Size (in)	Pipe Slope (%)	Qc - Pipe Capacity (cfs)	Qd/Qc	Depth of Flow (in)	Max. Velocity (ft/s)
EX 7	1A	A1	4.75	7.55	18	1.50	12.89	0.59	9.8	7.80
1A	2A	A1	4.75	7.58	18	3.25	18.92	0.40	7.8	10.13
2A	1	A1-A2	6.23	10.29	18	4.95	23.38	0.44	8.3	12.81
1	2	A1-A3	7.98	12.63	21	0.70	13.26	0.95	15.6	6.32
2	3	A1-A4	8.78	14.02	24	0.70	18.91	0.74	14.4	6.61
3	4	A1-A5	9.61	15.36	24	0.80	20.20	0.76	14.4	7.11
4	5	A1-A5	9.61	15.36	24	1.00	22.65	0.68	13.2	7.75
6	5	A7	2.10	3.88	15	0.50	4.58	0.85	10.0	4.24
7	6	A7	2.10	3.95	15	0.50	4.57	0.86	10.6	4.25
5	Outfall	A1-A7	13.87	22.60	30	0.75	35.44	0.64	15.7	7.70
8	9	-	-	0.00	12	1.00	3.57	0.00	0.0	0.00
9	EX 9	A8	2.06	3.83	15	1.10	6.78	0.57	7.9	5.78
10	EX 9	-	-	0.00	12	1.85	4.85	0.00	0.0	0.00
EX 9	EX 1	A8-A9	7.54	13.83	24	0.88	18.59	0.74	15.1	6.57
EX 1	Outfall	A8-A10	12.34	22.55	30	0.50	29.00	0.78	19.4	6.53



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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER  
JUN. 12, 2019  
*Glen Woodford*  
G.S. WOODFORD  
6078  
PROVINCE OF NOVA SCOTIA

CLIENT

PROJECT DESCRIPTION

**THE MEADOWS  
PHASE 2**  
FALMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

**STORM DRAINAGE /  
ENVIRONMENTAL  
PROTECTION PLAN**

Drawn	Engineer	Project No.	Drawing No.
A. SKETCHLEY	G. WOODFORD	14-033	7 of 11
Date of 1st Issue	Scale	Filename	
MAR. 27, 2015	1"=100' H	14-033CBase.dwg	