

Proj	ect Name: 1600 Upper James Street, Hamilton	MTE File No.:	52816-200
То:	Planning and Economic Development Growth Management Division 6 th Floor 71 Main Street W, Hamilton ON	Date:	August 1, 2023
cc:	LJM Developments	From:	Rosie Calogero, MTE Consultants Inc.

RE: Servicing Technical Memo

Serviceability of 1600 Upper James Street, Hamilton

1.0 Introduction

MTE Consultants Inc. were retained by LJM Developments to prepare servicing and grading designs for the proposed mixed-used development located at 1600 Upper James Street in the City of Hamilton (see Key Plan in Dwg C2.2 attached). The proposed development will be completed on a 0.23ha site and will consist of a 21-storey mixed use building with 249 residential units. The ground floor will include a residential lobby/entrance from Rymal Road West, and residential amenity spaces. Four levels of underground parking are proposed and vehicular access from Rymal Road is proposed. As part of the Design Review Panel, the City of Hamilton requested a servicing memorandum outlining the serviceability of the site. This technical memorandum addresses that concern and should be read in conjunction with drawing 52816-200 C2.2 as attached.

2.0 Storm Servicing

2.1 Existing Conditions

As per City plan-and-profile drawings, the existing municipal storm infrastructure fronting the subject property is summarized as follows. On Upper James Street there is an existing 375mmø storm sewer at $\pm 0.5\%$ flowing south connected to a 450mmø storm sewer at $\pm 0.5\%$ flowing east perpendicular to the roadway, which ultimately outlets into a 1350mmø storm trunk sewer flowing north at $\pm 0.33\%$. On Rymal Road West there is an existing 900mmø storm sewer at $\pm 0.45\%$ flowing east, which connects at the storm sewer junction located at the intersection of Rymal Road West and Upper James Street, conveying flows to the 1350mmø storm trunk sewer within Upper James Street. City plan-and-profile records (Drawing no. 84-S-15 and 68-S-30) indicate there is an existing 150mmø storm service located mid-block on the east side of the site.

2.2 Proposed Conditions

Based on the layout of the underground parking level and location of the storm water management tank, a storm service connection is proposed to connect to the existing 900mmø storm sewer on Rymal Road West near the southwest corner of the site. The proposed storm service will cross under the existing 200mmø watermain with an approximate clearance of 0.8m and will be clear of standard depth utilities within the boulevard. The existing storm service for the subject site will be decommissioned per City standards.



3.0 Sanitary Servicing

3.1 Existing Conditions

As per City plan-and-profile drawings, the existing municipal sanitary infrastructure fronting the subject property is summarized as follows. On Upper James Street there is an existing 1050mmø trunk sanitary sewer at ±0.68% flowing north. On Rymal Road West there is an existing 300mmø sanitary sewer at ±0.60% flowing east. The 300mmø sanitary sewer connects at a sanitary sewer junction located at the intersection of Rymal Road West and Upper James Street, conveying flows to the 1050mmø sanitary truck sewer within Upper James Street. City plan-and-profile records do not indicate where the existing sanitary service is located for the subject site. Locates are recommended prior to construction to ensure the existing service is decommissioned appropriately.

3.2 Proposed Conditions

Based on the layout of the underground parking level, a sanitary service connection is proposed to connect to the existing 300mmø sanitary sewer on Rymal Road West near the southwest corner of the site. The proposed sanitary service will cross under the existing 200mmø watermain with an approximate clearance of 1.5m and will be clear of standard depth utilities in the boulevard. The existing sanitary service for the subject site will be located and decommissioned per City standards.

4.0 Water Servicing

4.1 Existing Conditions

As per City plan-and-profile drawings, the existing municipal watermain infrastructure fronting the subject property is summarized as follows. On Upper James Street there is an existing 400mmø PVC watermain towards the north end of subject property and a 400mmø Ductile Iron watermain towards the south end of subject property. On Rymal Road West there is an existing 200mmø PVC watermain on the north side and a 400mmø Concrete watermain on the south side. City plan-and-profile records (Drawing no. 10-W-15) indicates there is an existing 20mmø soft copper water service connecting to Rymal Road West.

4.2 Proposed Conditions

Based on the layout of the underground parking level, a watermain service connection is proposed to connect to the existing 400mmø watermain on Upper James Street at approximately mid-block. According to City notes, this section of main might be PVC instead of Ductile Iron. This will be confirmed prior to construction. The proposed service at standard depth has no crossing conflicts and will be clear of standard depth utilities within the boulevard. The existing copper water service will be decommissioned per City standards. Prior to detailed design, a hydrant flow test will be completed to confirm available pressures in the existing system.

5.0 Conclusion

We trust the above meets with the City's requirement for a memorandum outlining the serviceability of the site. This technical memo displays that the subject site can be serviced with respect to the preliminary site plan and new connections to the existing municipal storm, sanitary and watermain infrastructure are possible to service the subject site.



Yours truly,

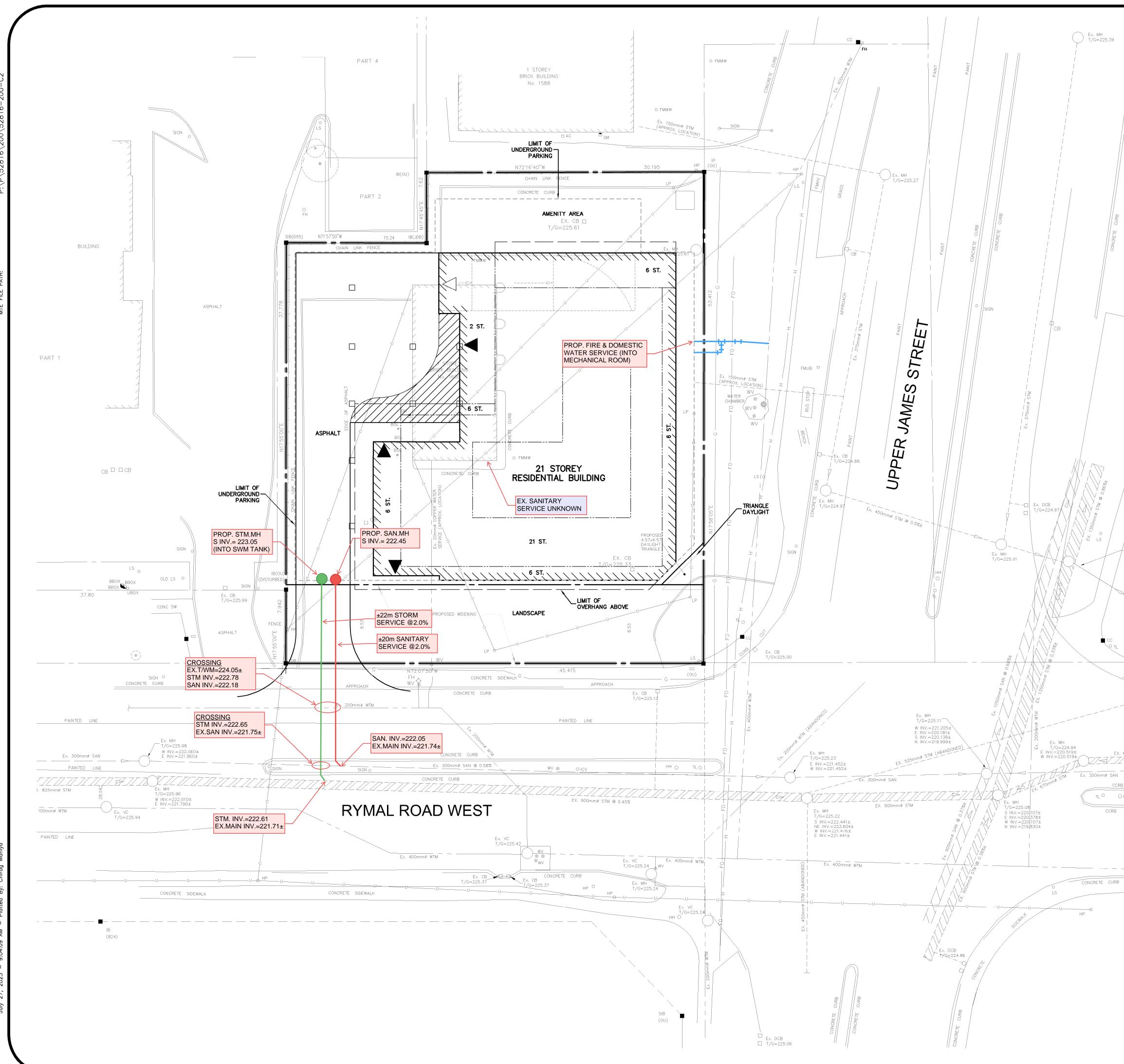
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Rosie Calogero, B.Eng. Project Manager 905-639-2552 x2425 RCalogero@mte85.com

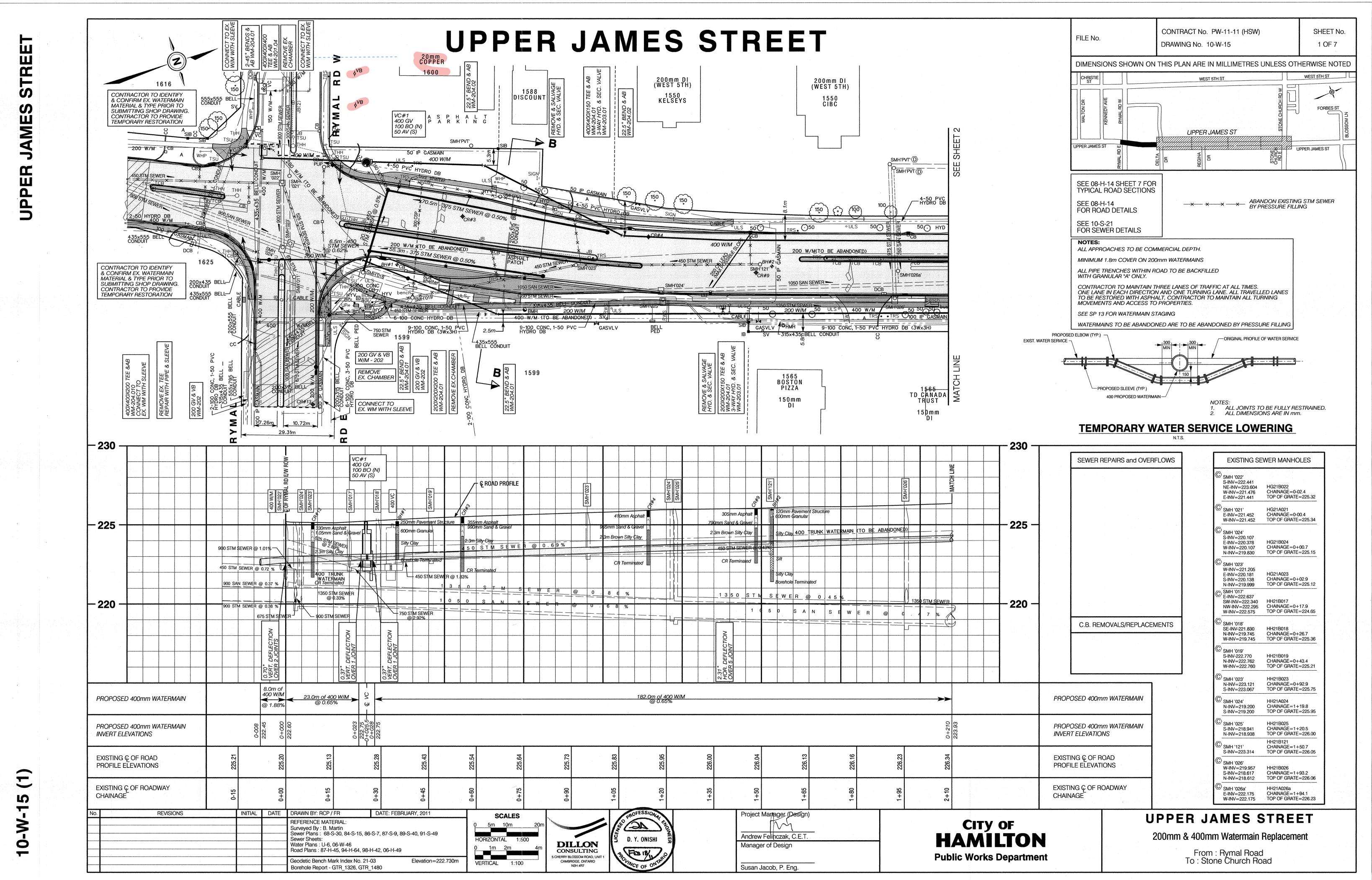
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City Plan-and-Profile Drawings

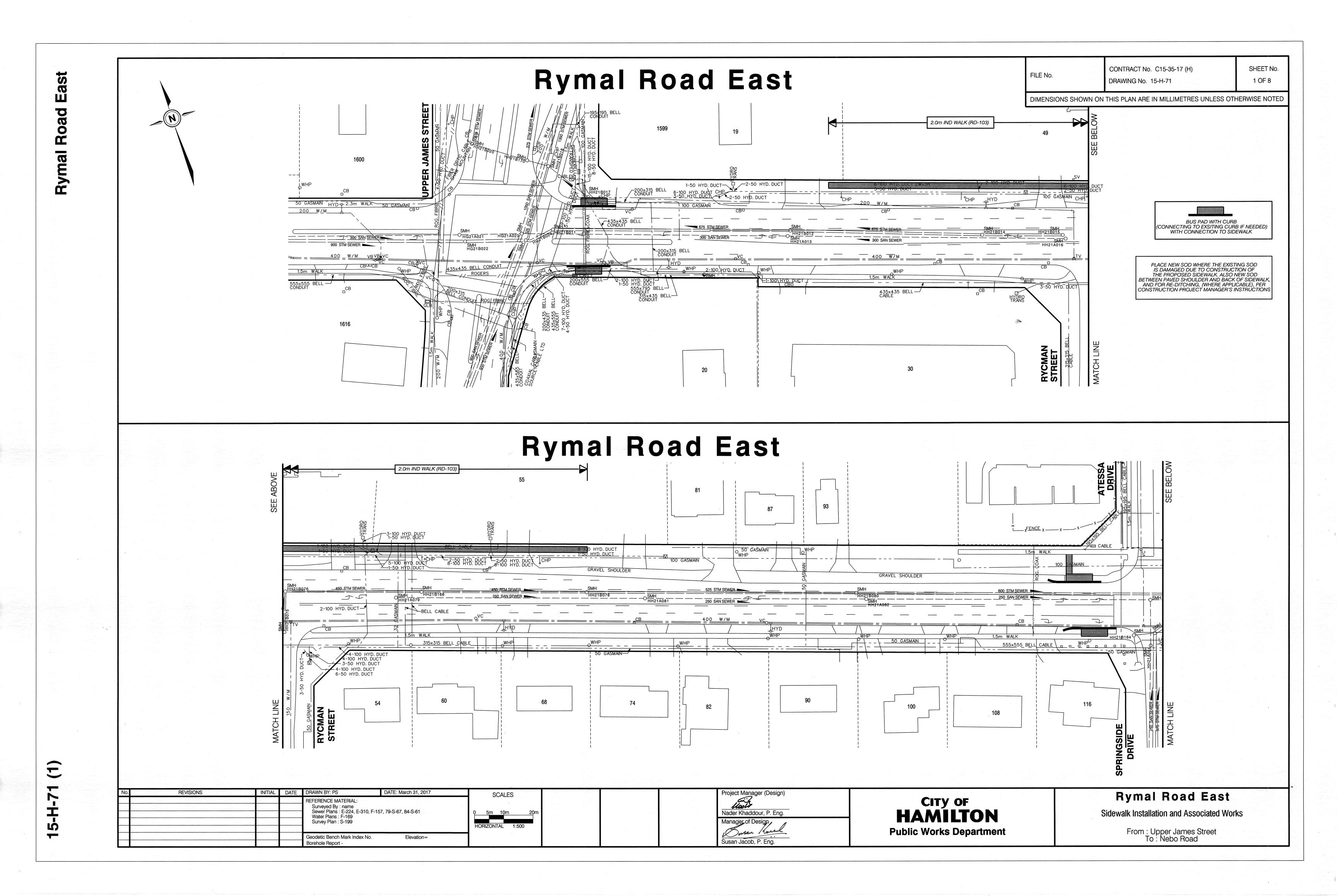


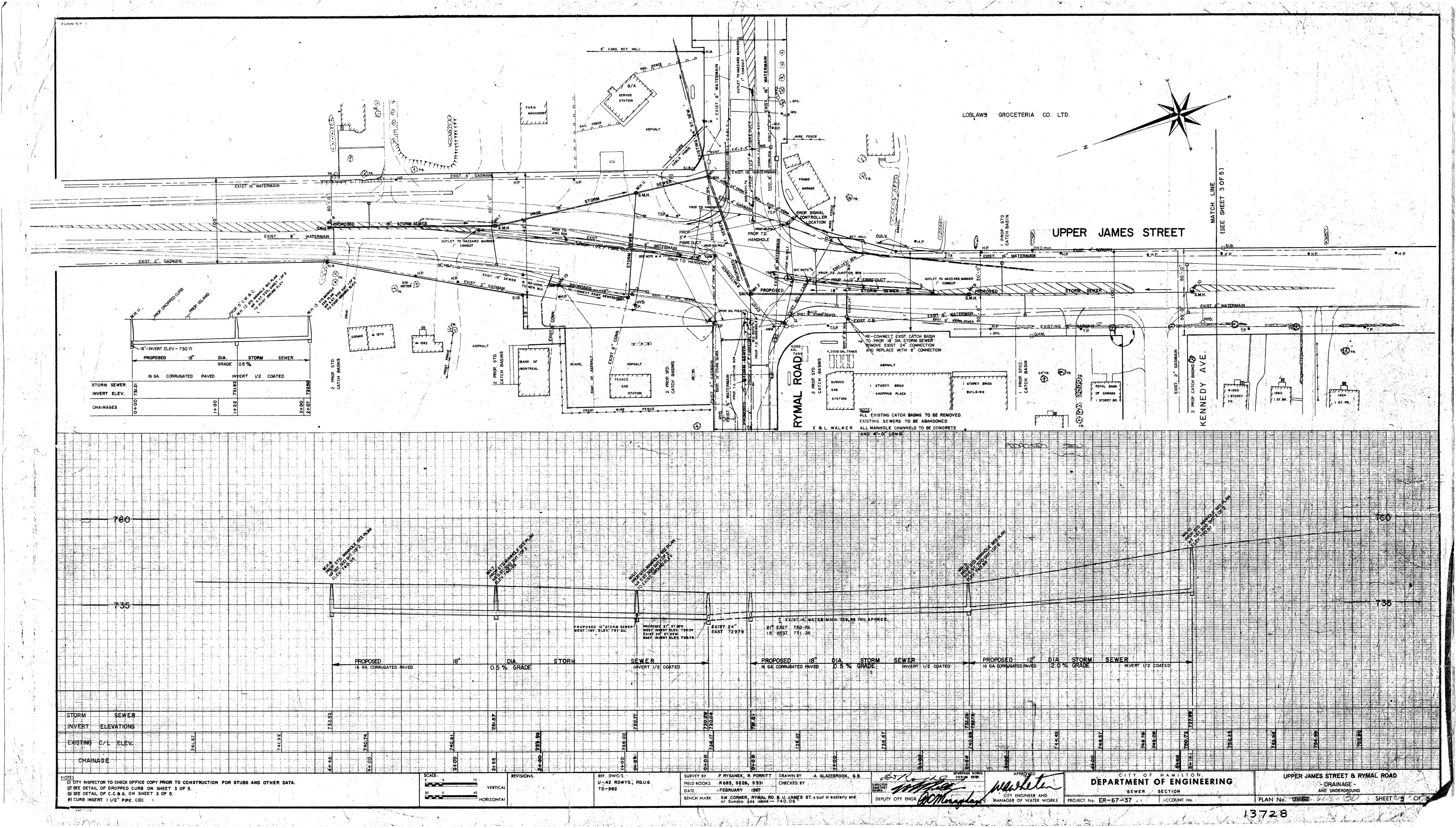
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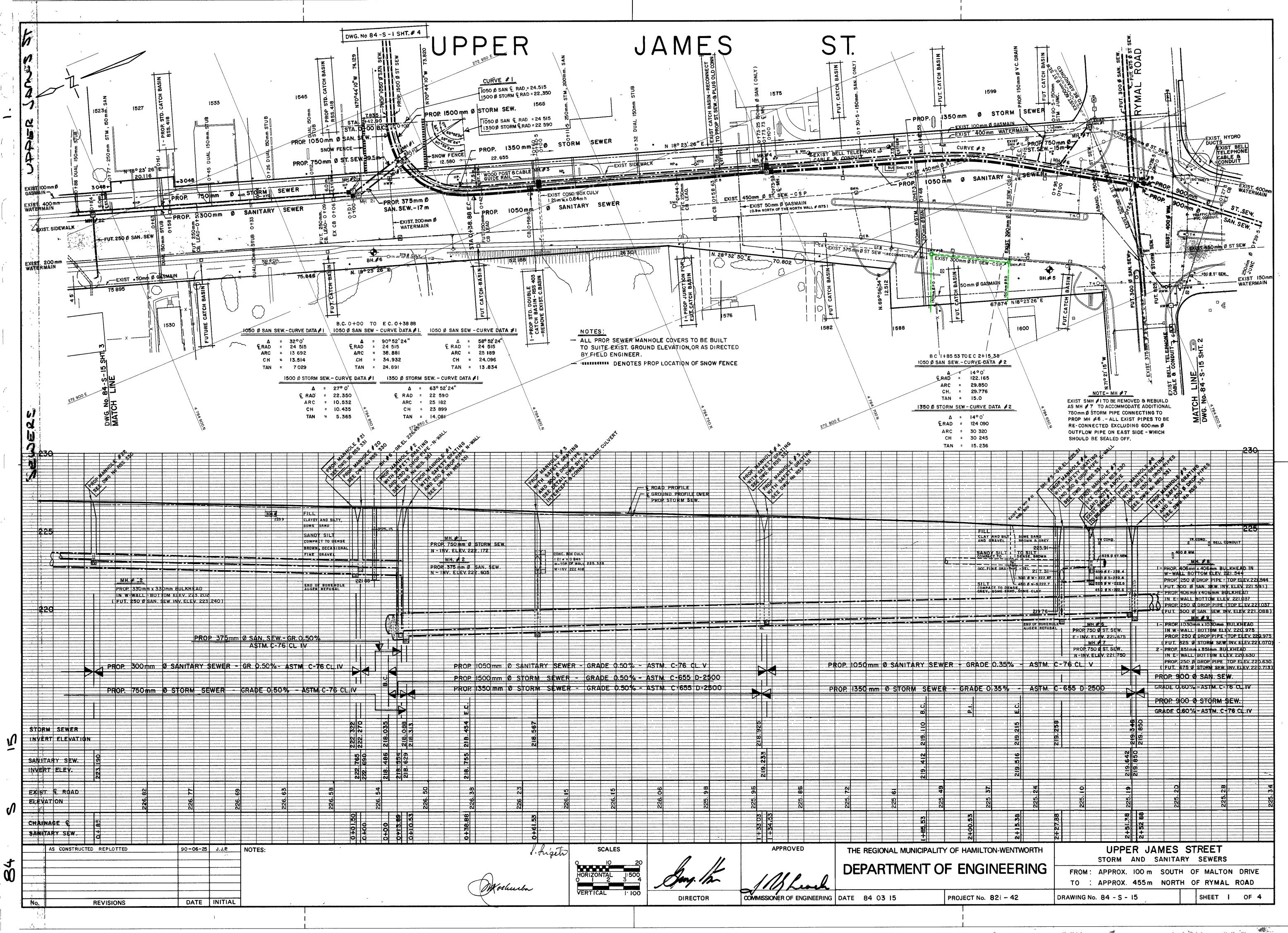
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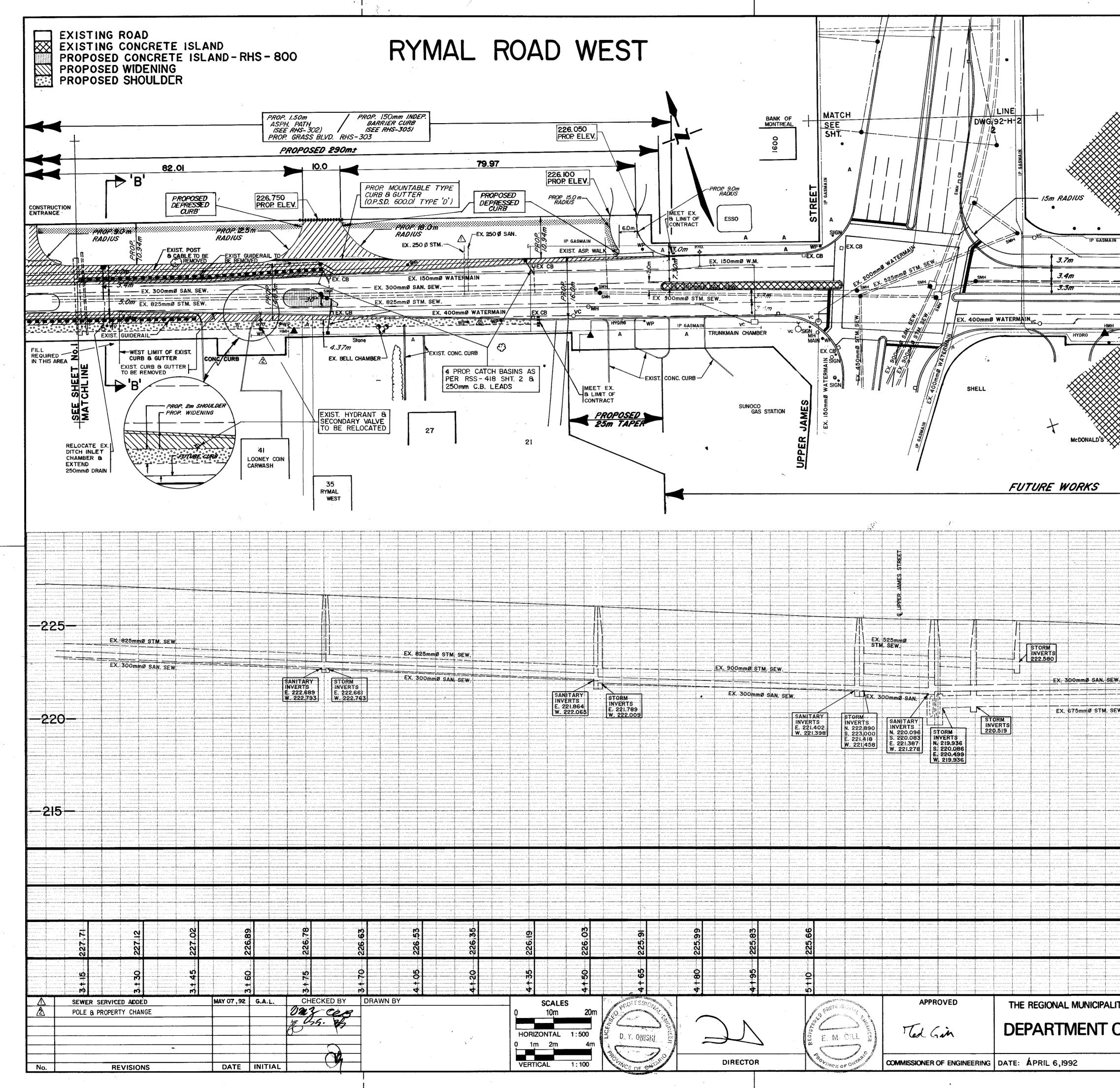


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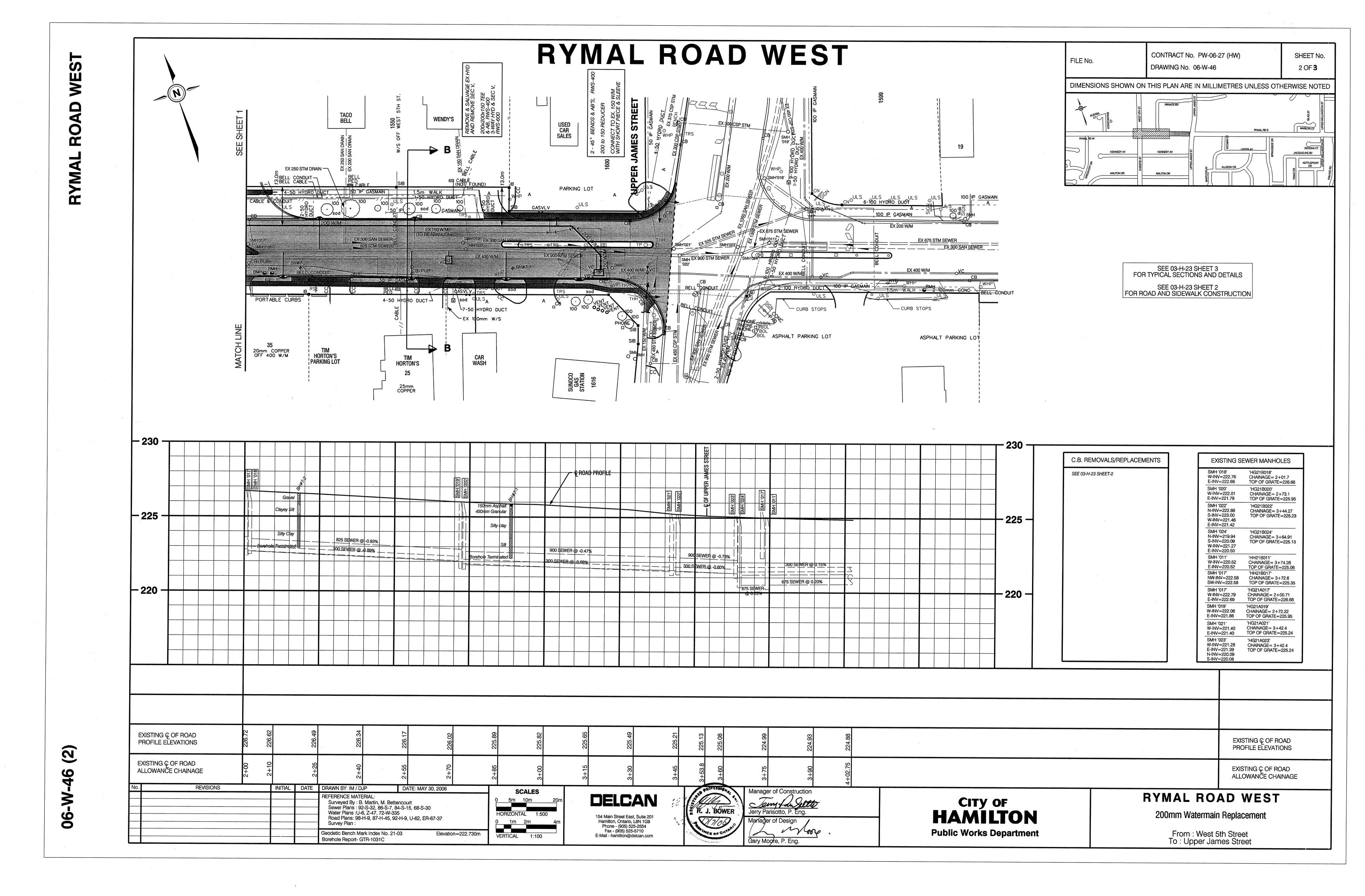
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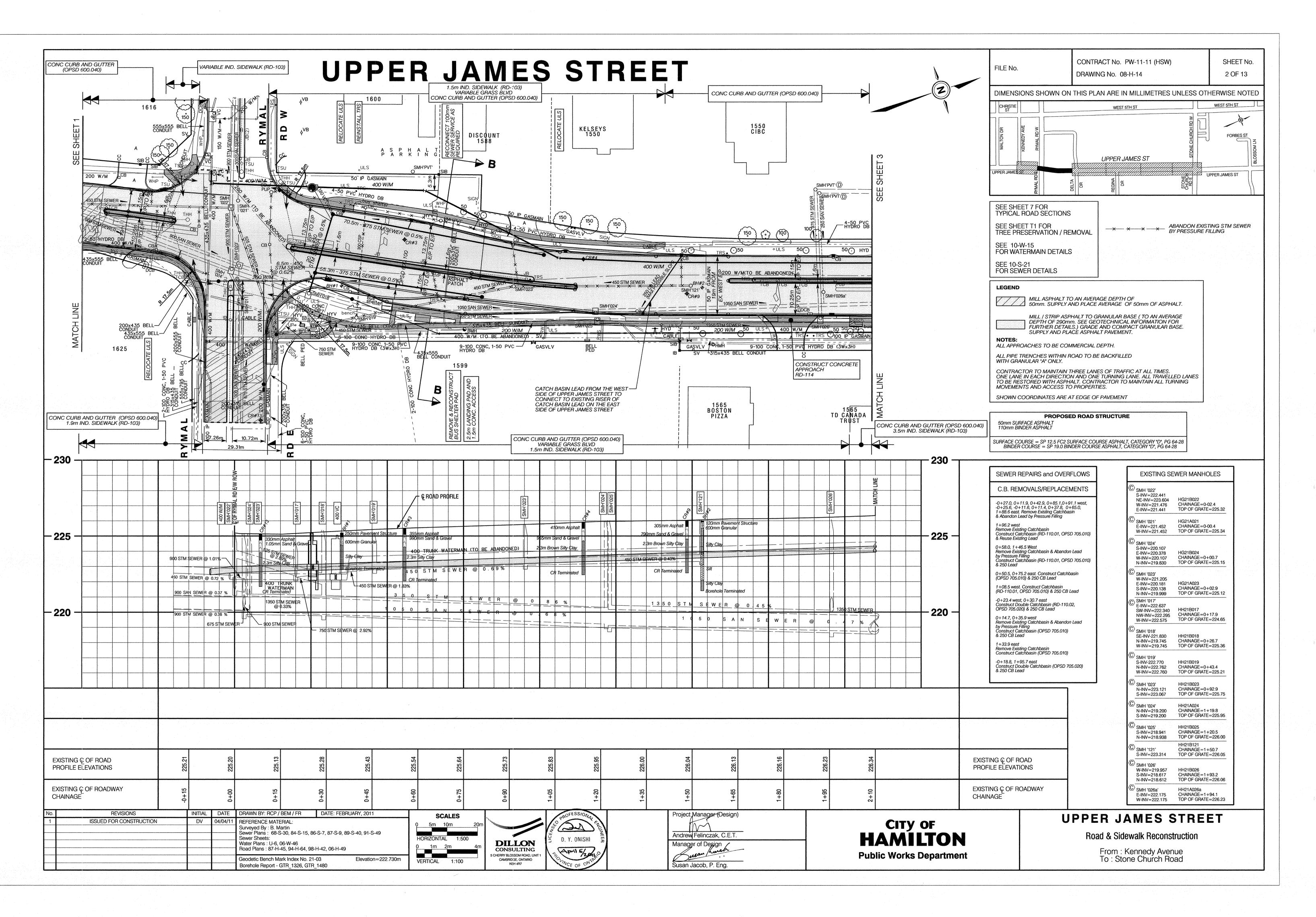
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