

City of St. Catharines

PROJECT NO. P19-002-1

HAMPSTEAD PLACE

ROAD RECONSTRUCTION

*FROM CARLTON ST. TO MANCHESTER AVE.
CITY OF ST. CATHARINES*

*ANTHONY MARTUCCIO P.ENG.
DIRECTOR ENGINEERING, FACILITIES AND
& ENVIRONMENTAL SERVICES*



LOCATION PLAN - NOT TO SCALE

*WALTER SENDZIK
MAYOR*

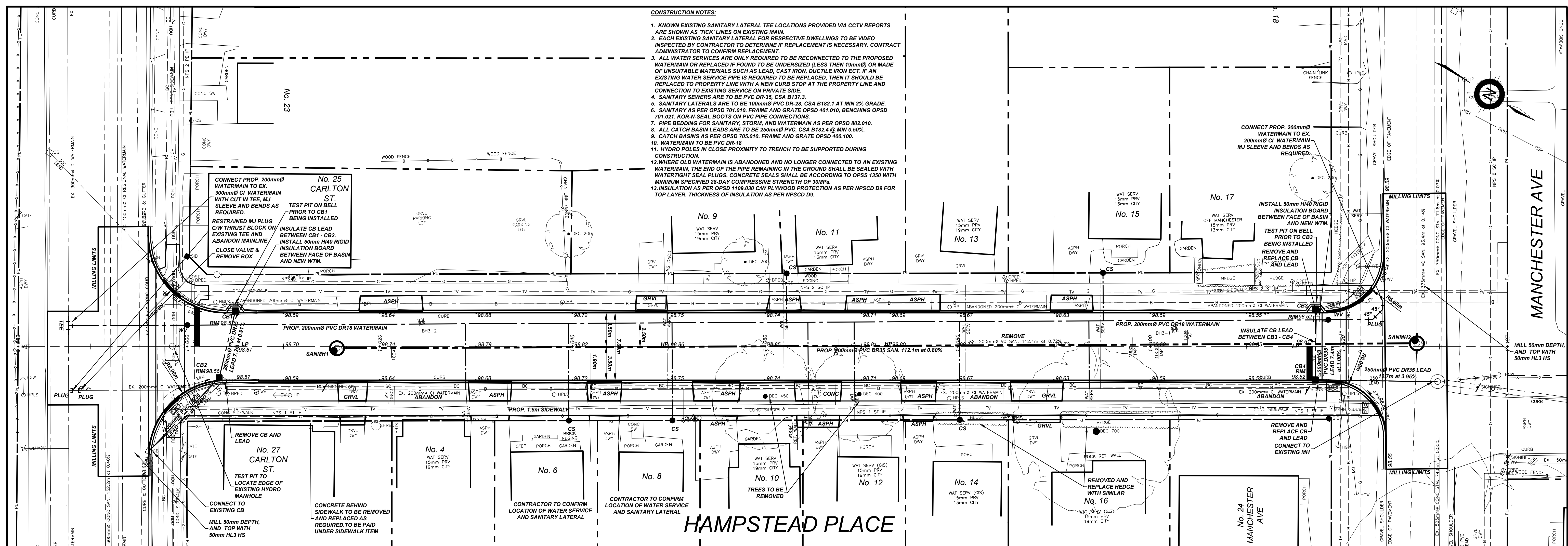
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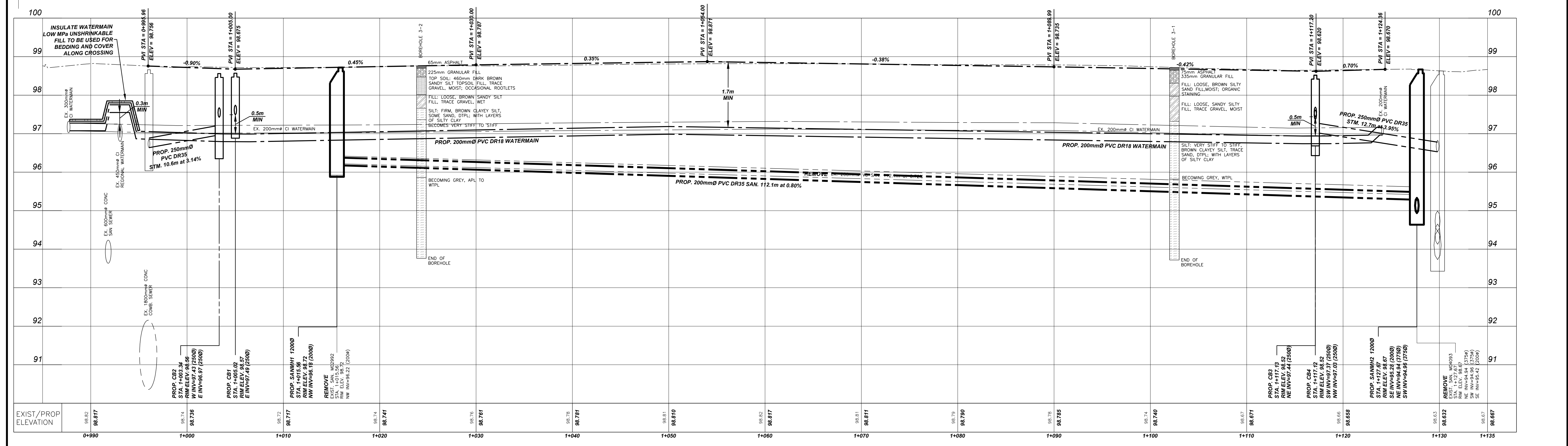
NO. P19-002-1

**HAMPSTEAD PLACE
ROAD RECONSTRUCTION
FROM CARLTON ST. TO MANCHESTER AVE.
CITY OF ST. CATHARINES**

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|---|-------------------|----------|-------|
| 2 | ISSUED FOR TENDER | APR 2022 | LD |
| 1 | ISSUED FOR REVIEW | NOV 2021 | LD |
| | | DATE | INIT. |



- CONSTRUCTION NOTES:**
1. KNOWN EXISTING SANITARY LATERAL TEE LOCATIONS PROVIDED VIA CCTV REPORTS ARE SHOWN AS 'TICK' LINES ON EXISTING MAIN.
 2. EACH EXISTING SANITARY LATERAL FOR RESPECTIVE DWELLINGS TO BE VIDEO INSPECTED BY CONTRACTOR TO DETERMINE IF REPLACEMENT IS NECESSARY. CONTRACT ADMINISTRATOR TO CONFIRM REPLACEMENT.
 3. ALL WATER SERVICES ARE ONLY REQUIRED TO BE RECONNECTED TO THE PROPOSED WATERMAIN OR REPLACED IF FOUND TO BE UNDERSIZED (LESS THAN 19mm) OR MADE OF UNSUITABLE MATERIALS SUCH AS LEAD, CAST IRON, DUCTILE IRON ECT. IF AN EXISTING WATER SERVICE PIPE IS REQUIRED TO BE REPLACED, THEN IT SHOULD BE REPLACED TO PROPERTY LINE WITH A NEW CURB STOP AT THE PROPERTY LINE AND CONNECTION TO EXISTING SERVICE ON PRIVATE SIDE.
 4. SANITARY SEWERS ARE TO BE PVC DR-15, CSA B137.3.
 5. SANITARY LATERALS ARE TO BE 100mmØ PVC DR-28, CSA B182.1 AT MIN 2% GRADE.
 6. SANITARY AS PER OPSD 701.010, FRAME AND GRATE OPSD 401.010, BENCHING OPSD 701.021, KOR-SEAL BOOTS ON PVC PIPE CONNECTIONS.
 7. PIPE BEDDING FOR SANITARY, STORM, AND WATERMAIN AS PER OPSD 802.010.
 8. ALL CATCH BASIN LEADS ARE TO BE 250mmØ PVC, CSA B182.4 @ MIN 0.50%.
 9. CATCH BASINS AS PER OPSD 705.010, FRAME AND GRATE OPSD 400.100.
 10. WATERMAIN TO BE PVC DR-16.
 11. HYDRO POLES IN CLOSE PROXIMITY TO TRENCH TO BE SUPPORTED DURING CONSTRUCTION.
 12. WHERE OLD WATERMAIN IS ABANDONED AND NO LONGER CONNECTED TO AN EXISTING WATERMAIN, THE END OF THE PIPE REMAINING IN THE GROUND SHALL BE SEALED WITH WATERTIGHT SEAL PLUGS. CONCRETE SEALS SHALL BE ACCORDING TO OPSD 1350 WITH MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH OF 30MPa.
 13. INSULATION AS PER OPSD 1109.030 C/W PL WOOD PROTECTION AS PER NPSCD D9 FOR TOP LAYER. THICKNESS OF INSULATION AS PER NPSCD D9.



| NO. | REVISION | DATE | INTI |
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| 2 | ISSUED FOR TENDER | APR/22 | LD |
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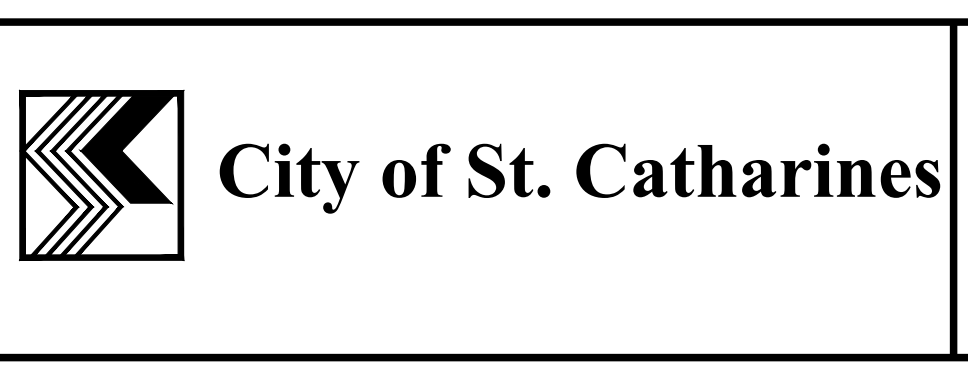
NOTES/LEGEND

1. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWER AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
2. PROPERTY LINES WERE PLOTTED USING REGIONAL OR MUNICIPAL TERRET AND BARS LOCATED IN THE FIELD, TO VERIFY THE ACCURACY OF THESE PROPERTY LINES, A LEGAL SURVEY SHOULD BE PERFORMED PRIOR TO CONSTRUCTION.
3. THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY. KERRY T. HOWE ENGINEERING LTD. ASSUMES NO LIABILITY FOR USE IN ANY OTHER WAY. CAD FILES OF THIS DRAWING ARE NOT CERTIFIED BY THE ENGINEER FOR USE BY OTHERS. USERS OF THESE CAD FILES ASSUME ALL RISK AND RESPONSIBILITY FOR VERIFYING THE CORRECTNESS OF ALL INFORMATION FOR ANY USE.
- CONTROL POINTS (LNOID, 83, CSRS, EPOCH, 2010):

#8018030: BRASS TABLET SET HORIZONTALLY IN THE EAST FACE OF THE CONCRETE FOUNDATION OF PLANT #1 (GENERAL MOTORS) ON ONTARIO ST. 59.5M NORTH OF THE MAIN ENTRANCE, 7.65M WEST OF WESTERLY RAIL OF CAR SPUR LINE AND 0.42M BELOW BRICKWORK. N:4780914.232 E:641315.378 EL:98.983
 #2: ON SOUTH SIDE OF CARLTON STREET ACROSS FROM THE SW CORNER OF #23 CARLTON ST. N:4780914.232 E:641315.378 EL:98.983
 #3: ON NORTH SIDE OF MANCHESTER AVE. IN THE SW CORNER OF ASPH DWY TO #25 MANCHESTER DEVELOPMENT. N:4781061.446 E:6412701.589 EL:98.576

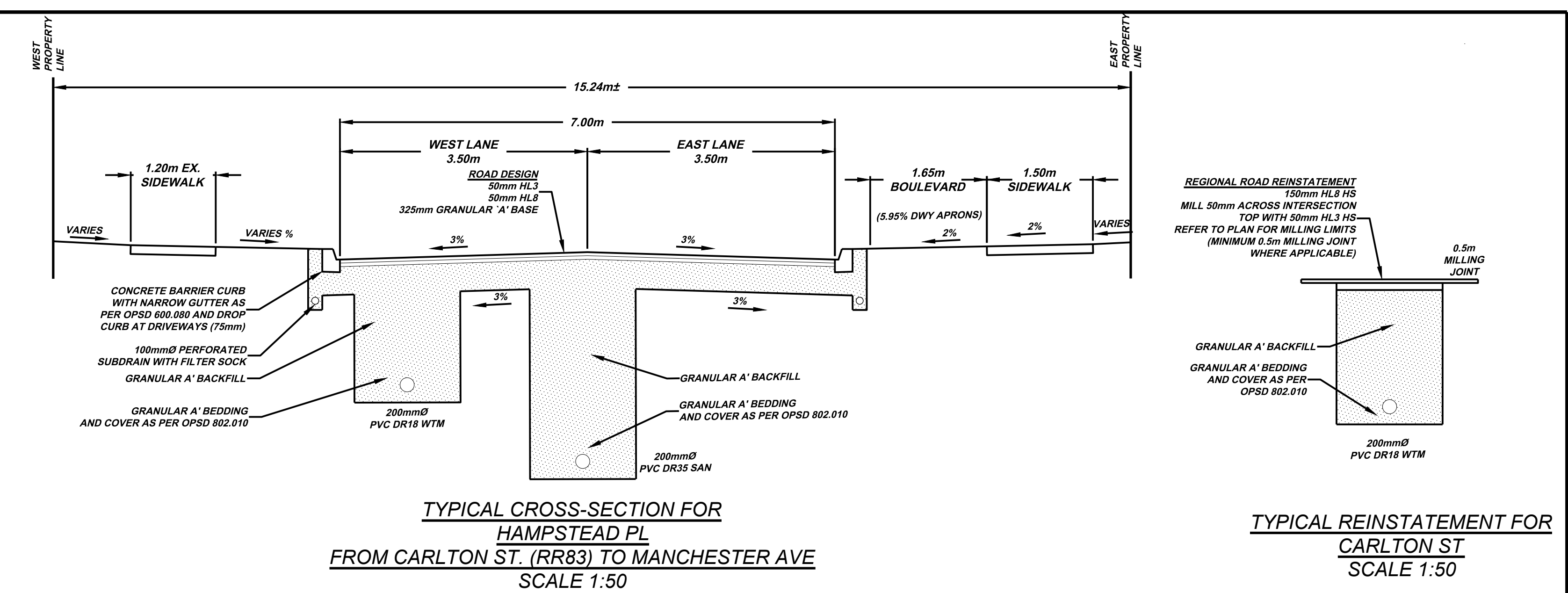
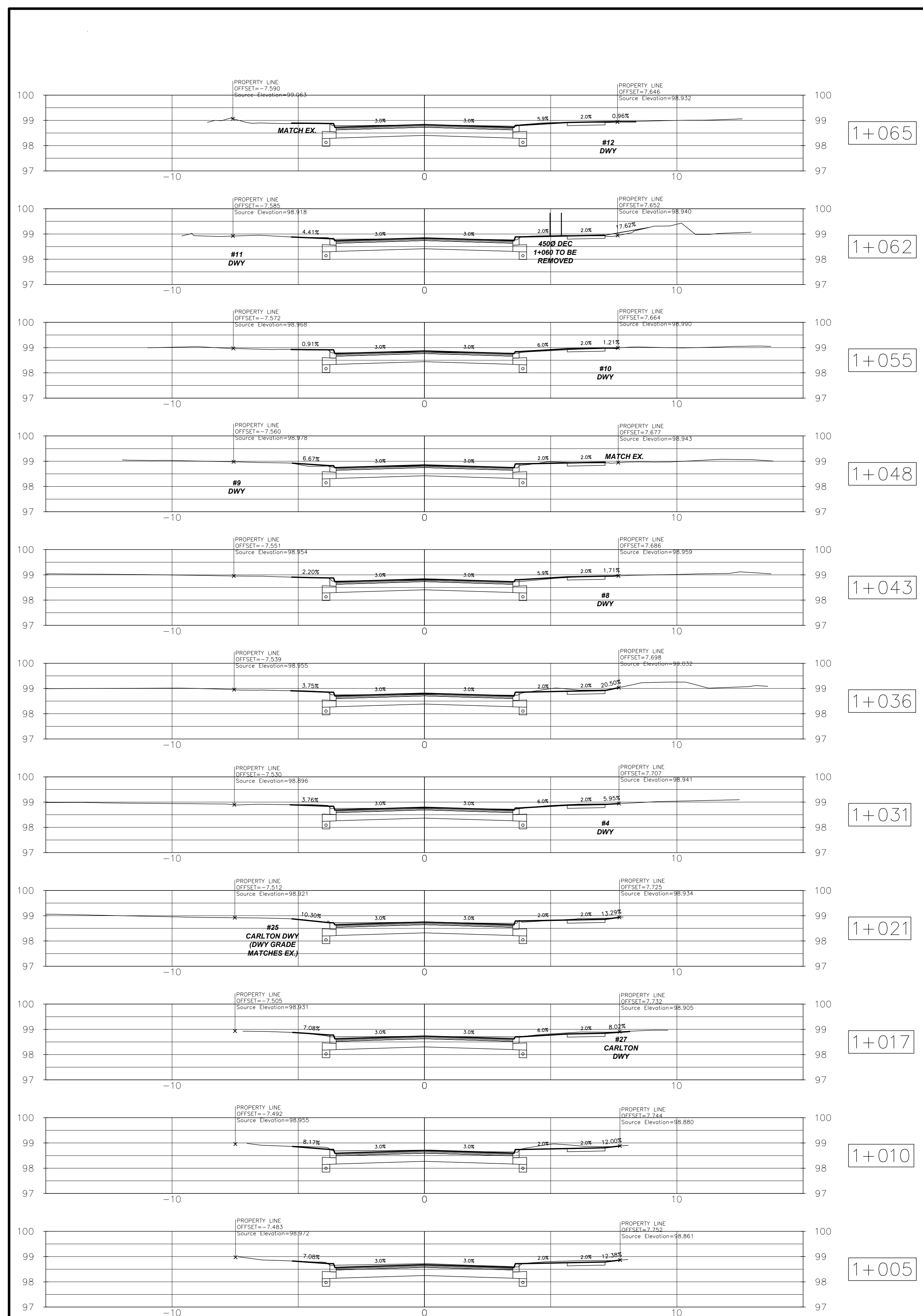
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| DRAFTING | LD |
| DESIGN | LD |
| CHECKED BY | KH |
| APPROVED BY | |

KERRY T. HOWE ENGINEERING LTD.
 CONSULTING ENGINEER
 98 Church Street
 St. Catharines, Ontario
 (905) 688-6500



P19-002-1
HAMPSTEAD PLACE
 ROAD RECONSTRUCTION
 FROM CARLTON ST TO MANCHESTER AVE
 CITY OF ST. CATHARINES
 Sta. 0+985 to Sta. 1+135

CONSULTANT FILE No. 21-019
 DATE: APRIL 29, 2022
 SCALE: HOR 1:200
 VER: 1:50
 REF. No. P19-002-1
 DWG No. 21-019 - PP1
 REV. 2



| NO. | REVISION | DATE | INT. |
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| 2 | ISSUED FOR TENDER | APR/22 | LD |
| 1 | ISSUED FOR REVIEW | NOV/21 | LD |

NOTES/LEGEND

- 1 THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWER AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 2 PROPERTY LINES WERE PLOTTED USING REGIONAL OR MUNICIPAL TERANET AND BARS LOCATED IN THE FIELD, TO VERIFY THE ACCURACY OF THESE PROPERTY LINES, A LEGAL SURVEY SHOULD BE PERFORMED PRIOR TO CONSTRUCTION.

CONTROL POINTS (NAD 83 CSBS):

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|---|---|---------------|--------------|-----------|
| 1 | #038030: BRASS TABLET SET HORIZONTALLY IN THE EAST FACE OF THE CONCRETE FOUNDATION OF PLANT #81 (GENERAL MOTORS) ON ONTARIO ST. 59.5M NORTH OF THE MAIN ENTRANCE, 7.65M WEST OF WESTERLY RAIL OF CUR SPUR LINE AND 0.42M BELOW BRICKWORK. | N:4780914.232 | E:641315.378 | EL:99.395 |
| 2 | CC1: ON SOUTH SIDE OF CARLTON STREET ACROSS FROM THE SW CORNER OF #23 CARLTON ST. | N:4780914.232 | E:641315.378 | EL:98.983 |
| 3 | PK6: ON NORTH SIDE OF MANCHESTER AVE, IN THE SW CORNER OF ASPH DWY TO #25 MANCHESTER DEVELOPMENT. | N:4781061.446 | E:641270.589 | EL:98.576 |

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| DESIGN | LD |
| CHECKED BY | KH |
| APPROVED BY | |

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ROAD RECONSTRUCTION
FROM CARLTON ST TO MANCHESTER AVE
CITY OF ST. CATHARINES
CROSS SECTIONS

| | | |
|----------------------------|----------------|----------------|
| CONSULTANT FILE No. 21-019 | DATE | APRIL 29, 2022 |
| SCALE | 1:100 | |
| REF. No. | P19-002-1 | |
| DWG No. | 21-019 - PPSX1 | REV. |
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