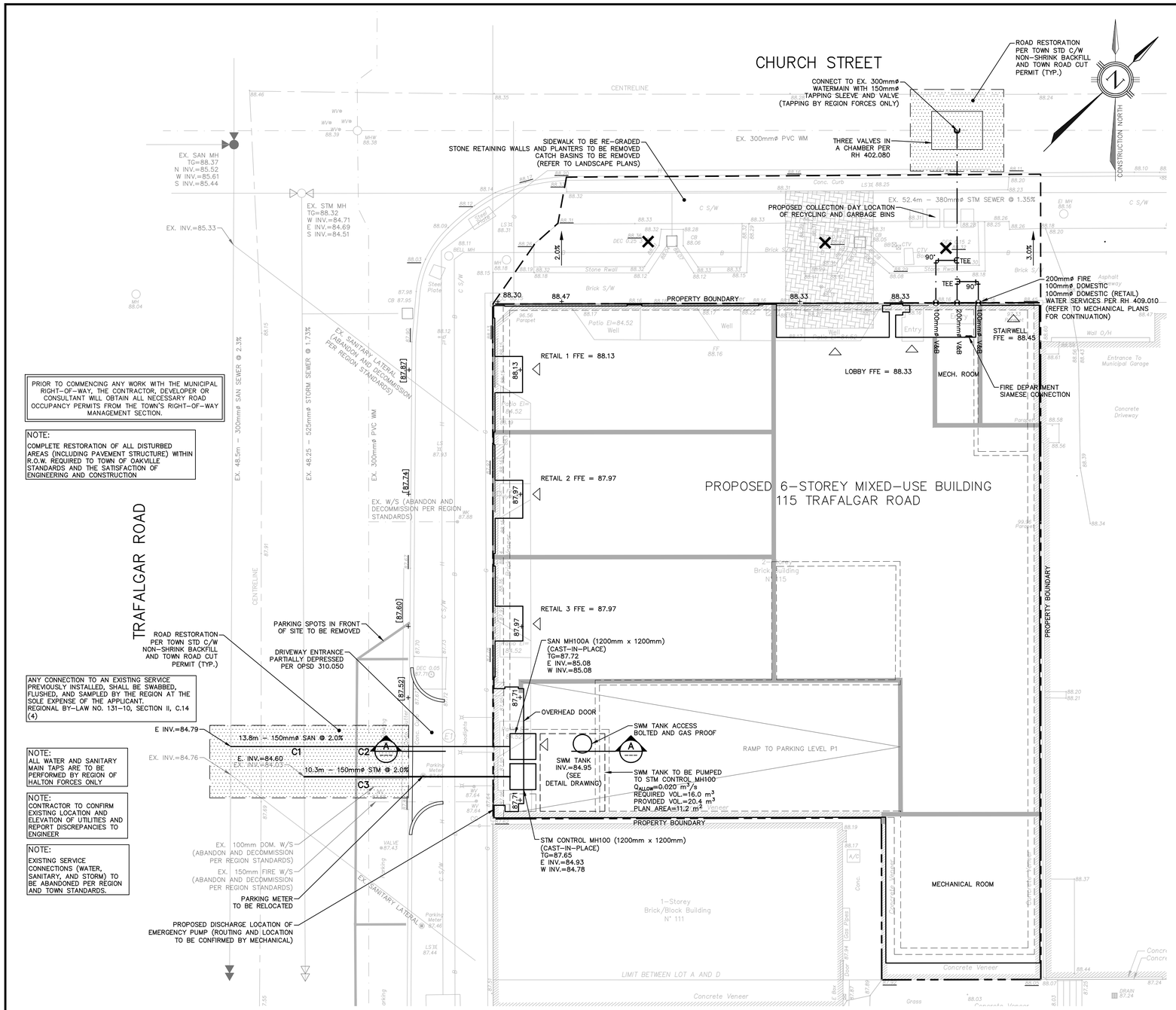
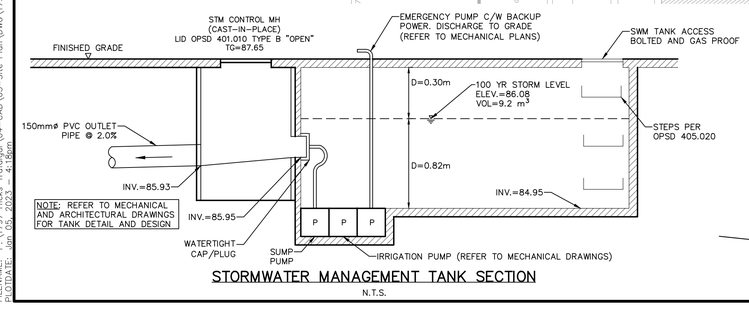
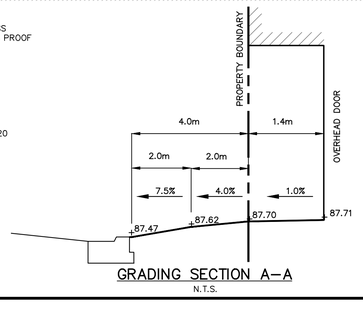
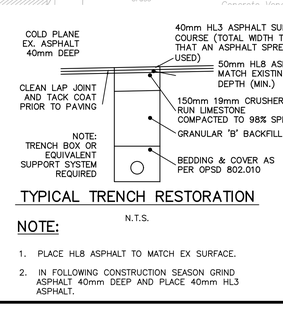



STORMWATER MANAGEMENT TANK SECTION
N.T.S.




GRADING SECTION A-A
N.T.S.




TYPICAL TRENCH RESTORATION
N.T.S.

NOTE:
1. PLACE HL8 ASPHALT TO MATCH EX SURFACE.
2. IN FOLLOWING CONSTRUCTION SEASON GRIND ASPHALT 40mm DEEP AND PLACE 40mm HL3 ASPHALT.

| UTILITY CROSSINGS | |
|---|---|
| C1 | SAN INV.=84.89<br>STM OBV.=84.58 |
| C2 | WM INV.=85.50<br>SAN OBV.=85.08 |
| C3 | WM INV.=85.69<br>STM OBV.=84.80 |

## GENERAL NOTES:

1. ALL DIMENSIONS AND ELEVATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES FOUND PRIOR TO OR DURING CONSTRUCTION SHALL BE CLARIFIED WITH THE ENGINEER.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE REGIONAL MUNICIPALITY OF HALTON (INCLUDING REGION OF HALTON'S CONTRACTOR INFORMATION PACKAGE), THE TOWN OF OAKVILLE, AND THE ONTARIO BUILDING CODE (PART 7). ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS (OPSS & OPSD) SHALL BE USED IN ABSENCE OF LOCAL STANDARDS.
3. RESTORE ROAD AS PER THE TOWN OF OAKVILLE ROAD CUT PERMIT.
4. ALL INFORMATION SHOWING THE LOCATION AND SIZE FOR EXISTING UTILITIES AND/OR SERVICES HAS NOT BEEN VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION, AND PROTECTING AND MAINTAINING THE UTILITIES DURING CONSTRUCTION.
5. ALL REMOVED OR DAMAGED CURBS, SIDEWALK, GRANULARS, ASPHALT AND SOD RESULTING FROM SERVICE INSTALLATION SHALL BE REINSTATED BY SERVICING CONTRACTOR TO THE TOWN OF OAKVILLE STANDARDS.
6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, MECHANICAL AND LANDSCAPE DRAWINGS.
7. THE CONTRACTOR SHALL CHECK AND VERIFY ALL GIVEN GRADES AND ELEVATIONS, PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPENCIES TO THE ENGINEER.
8. ALL GRADING CHANGES SHALL BE APPROVED BY THE ENGINEER AND TOWN OF OAKVILLE PRIOR TO IMPLEMENTATION.
9. THE CONTRACTOR SHALL CLEAN ALL MUD TRACKED ON TO ADJACENT ROADWAYS.

## SERVICING NOTES:

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE REGIONAL MUNICIPALITY OF HALTON INLCUDING REGION OF HALTON CONTRACTOR INFORMATION PACKAGE), TOWN OF OAKVILLE AND THE ONTARIO BUILDING CODE (PART 7). ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS (OPSS & OPSD) SHALL BE USED IN ABSENCE OF LOCAL STANDARDS.
2. ALL SERVICES SHALL BE BACKFILLED WITH APPROVED NATIVE BACKFILL COMPACTED TO 98% S.P.M.D.D. BEDDING AND COVER MATERIAL SHALL BE PER THE APPLICABLE OPSD.
3. SERVICE TRENCH RESTORATION WITHIN MUNICIPAL ROAD ALLOWANCE SHALL BE PER TOWN STD.
4. WATER SERVICE TO BE COPPER TYPE 'K' SOFT COPPER TUBING.
5. SANITARY LATERAL INVERT TO BE CONFIRMED PRIOR TO FOUNDATION CONSTRUCTION.
6. ALL SINGLE CATCHBASIN LEADS TO BE 250mmø PVC DR-35 @ 1.0%
7. WATER SERVICE LATERALS ARE TO HAVE A MINIMUM COVER OF 1.7m AND MAINTAIN A HORIZONTAL DISTANCE OF 1.2m FROM THEMSELVES & OTHER UTILITIES.
8. WATER SERVICE LATERALS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m OVER/0.50M UNDER SEWERS AND ALL OTHER UTLITIES WHEN CROSSING OR IN PARALLEL INSTALLATIONS.

## SANITARY NOTES:

1. ALL SANITARY SEWERS SHALL BE PVC SDR35 AND BEDDING PER OPSD 802.010*.
2. ALL SANITARY MANHOLES SHALL BE 1200mmø PER OPSD 701.010 c/w COVER PER OPSD 401.010, UNLESS OTHERWISE NOTED.
3. SERVICE LATERALS ARE TO BE 125mmø PVC PIPE AT 2.0% MINIMUM (UNLESSS OTHERWISE NOTED) SLOPED TO BUILDING, SDR-28 AND SHALL BE GREEN AS PER REGION OF HALTON STANDARDS.
4. BENCHING IN MANHOLES IS THROUGHOUT TO THE CROWN OF ALL PIPES ON A VERTICAL PROJECTION FROM SPRING LINE.
5. ASTERISK (*) INDICATES OPSD CAN BE USED MODIFIED BY REGION OF HALTON.

## WATERMAIN NOTES:

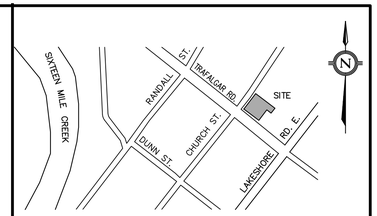
1. WATER SERVICE CONNECTION SHALL BE 38mmø COPPER, TYPE 'K' SOFT COPPER TUBING.
2. BEDDING ON WATER SERVICE SHALL BE PER OPSD 802.010*.
3. COVER SHALL BE 1.7m MIN. UNLESS OTHERWISE NOTED.
4. MINIMUM LATERAL SEPARATION FROM OTHER UTILITIES IS 2.5m.
5. ANODE INSTALLATION PER RH 420.04.
6. WATERMAIN SHALL BE PRESSURE TESTED TO 150psi FOR 3 HOURS AND WITNESSED BY REGION OF HALTON.
7. WATERMAIN SHALL BE TESTED AND DISINFECTED AS PER REGION OF HALTON REQUIREMENTS.

## GRADING NOTES:

1. ALL TOPSOIL SHALL BE STRIPPED PRIOR TO GRADING.
2. ALL FILL PLACEMENT SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
3. ALL DISTURBED AREAS SHALL BE REINSTATED WITH SEED OVER 200-300mm OF TOPSOIL.
4. ALL DISTURBED AREAS WITH PUBLIC R.O.W. TO BE REINSTATED WITH 200mm TOPSOIL AND SOD.
5. ALL CURBING SHALL BE BARRIER CURB PER OSPD 600.110 (150mm HIGH), UNLESS OTHERWISE NOTED.
6. ASPHALT DRIVEWAY PAVEMENT STRUCTURE SHALL BE THE GREATER OF THE EXISTING, OR 75mm HL3A OVER 150mm 19mm CRL, OR AS OTHERWISE DIRECTED BY THE GEOTECHNICAL CONSULTANT.

## EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED ACCORDING TO THE APPROVED PLANS PRIOR TO COMMENCEMENT OF ANY EARTH MOVING WORK ON THE SITE AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH THE INTENDED GROUND COVER.
2. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR:
   I. WEEKLY
   II. BEFORE AND AFTER ANY PREDICTED RAINFALL EVENT
   III. FOLLOWING AN UNPREDICTED RAINFALL EVENT
   IV. DAILY, DURING EXTENDED DURATION RAINFALL EVENTS
   V. AFTER SIGNIFICANT SNOW MELT EVENTS
3. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES. DAMAGED OR CLOGGED DEVICES SHALL BE REPAIRED WITHIN 48 HOURS.
4. WHERE A SITE REQUIRES DEWATERING AND WHERE THE EXPELLED WATER CAN BE FREELY RELEASED TO A SUITABLE RECEIVER, THE EXPELLED WATER SHALL BE TREATED TO CAPTURE SUSPENDED PARTICLES GREATER THAN 40 MICRON IN SIZE. THE CAPTURED SEDIMENT SHALL BE DISPOSED OF PROPERLY PER MOECC GUIDELINES. THE CLEAN EXPELLED WATER SHALL FREELY RELEASE TO A SUITABLE RECEIVER THAT DOES NOT CREATE DOWNSTREAM ISSUES INCLUDING BUT NOT LIMITED TO EROSION, FLOODING - NOT CREATE DOWNSTREAM ISSUES INCLUDING BUT NOT LIMITED TO EROSION, FLOODING - NUISANCE OR OTHERWISE, INTERFERENCE ISSUES, ETC.
5. EXISTING STORM SEWER AND DRAINAGE DITCHES ADJACENT TO THE WORKS SHALL BE PROTECTED AT ALL TIMES FROM THE ENTRY OF SEDIMENT/SLT THAT MAY MIGRATE FROM THE SITE. FOR STORM SEWERS: ALL INLETS (REAR LOT CATCHBASINS, ROAD CATCHBASINS, PIPE INLETS, ETC.) MUST BE SECURED/FITTED WITH SILTATION CONTROL MEASURES. FOR DRAINAGE DITCHES: THE INSTALLATION OF ROCK CHECK DAMS, SILTATION FENCE, SEDIMENT CONTAINMENT DEVICES MUST BE INSTALLED TO TRAP AND CONTAIN SEDIMENT. THESE SILTATION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED PER ITEMS B AND C ABOVE.
6. IN THE EVENT OF A SPILL (RELEASE OF DELETERIOUS MATERIAL) ON OR EMANATING FROM THE SITE, THE OWNER OR OWNERS AGENT SHALL IMMEDIATELY NOTIFY THE MOECC AND FOLLOW ANY PRESCRIBED CLEAN UP PROCEDURE. THE OWNER OF OWNERS AGENT WILL ADDITIONALLY IMMEDIATELY NOTIFY THE TOWN.




KEY PLAN

LEGEND

| | |
|---|---|
| 81.71 | EXISTING ELEVATION |
| 83.41 | EXISTING ELEVATION TO REMAIN |
| 82.77 | PROPOSED FINISHED ELEVATION |
| [83.23] | INTERPOLATED EXISTING GRADE TO REMAIN |
| ○ | PROPOSED STORM MANHOLE |
| ● | PROPOSED SANITARY MANHOLE |
| | PROPOSED FIRE HYDRANT |
| | PROPOSED VALVE & BOX |
| | PROPOSED STORM SEWER |
| | PROPOSED SANITARY SEWER |
| | PROPOSED WATERMAIN |
| M | PROPOSED WATER METER |
| BF | PROPOSED BACKFLOW PREVENTER |

| NO. | DATE | BY/DRAWN | REVISIONS |
|---|---|---|---|
| 1 | 22/12/22 | AJP | ISSUED FOR ZBA/OPA |

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## BENCHMARK

ALL ELEVATIONS SHOWN HEREON ARE GEODETIC AND WERE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK 0-251 HAVING AN ELEVATION OF 118.729m (CGVD-1928:1978).

## SURVEY CREDIT

THE TOPOGRAPHIC DETAIL SHOWN HEREON IS OBTAINED FROM CUNNINGHAM McCONNELL LIMITED, ONTARIO LAND SURVEYORS PLAN 122-22-1, COMPLETED ON THE 1ST OF NOVEMBER 2022

LICENSED PROFESSIONAL ENGINEER
J. J. WELSON
100159359
4 Jan 2023
PROVINCE OF ONTARIO

DESIGNED BY | APPROVED BY

CONSULTANT
TRAFALGAR ENGINEERING
#1-481 MORDEN ROAD, OAKVILLE, ON, L6K 3W6
www.trafalgareng.com

PROJECT TITLE
HICKS TRAFALGAR

LOCATION
115 TRAFALGAR ROAD
TOWN OF OAKVILLE

DRAWING TITLE
GRADING AND SERVICING PLAN

| | | | |
|---|---|---|---|
| SCALE | 1:100 | DESIGN BY | AJP |
| DRAWN BY | AJP | CHECKED BY | JN |
| DATE | 2022/11/14 | SHEET | 1 OF 1 |
| PROJECT No. | 1797 | PLAN No. | GS1 |

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