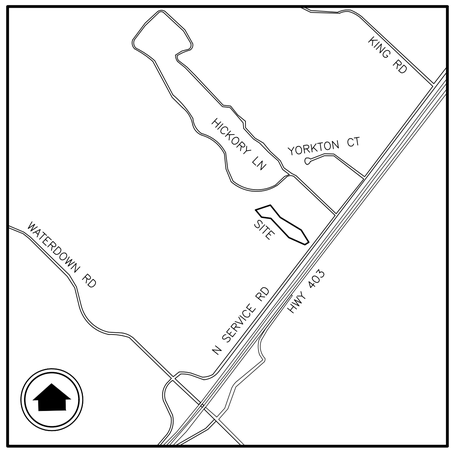
KING PAVING & CONSTRUCTION COMPANY

PROPOSED ASPHALT PLANT

291 NORTH SERVICE ROAD
BURLINGTON, ONTARIO
SITE PLAN No.: T.B.D.



DRAWING INDEX:

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C–109	Preliminary Road Widening Plan

REISSUED FOR SITE PLAN APPROVAL- AUGUST 2023

S. LLEWELLYN & ASSOCIATES LIMITED
CONSULTING ENGINEERS

Tel. (905) 631–6978
website: www.sla.on.ca
email: info@sla.on.ca

3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

GENERAL NOTES:

1. CONSTRUCTION OF ALL WATERMAIN SEWERS, AND RELATED APPURTENANCES SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CURRENT STANDARD DRAWINGS OF THE CITY OF BURLINGTON, THE REGIONAL MUNICIPALITY OF HALTON AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD). THE CITY AND THE REGION'S DRAWINGS SHALL TAKE PRECEDENCE OVER THE OPSD DRAWINGS.
2. ONTARIO PROVINCIAL STANDARD DRAWINGS TO BE READ IN CONJUNCTION WITH THE REGION OF HALTON REVISIONS.
3. RELOCATION OF EXISTING SERVICES AND/OR UTILITIES SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR CONSTRUCTION.
5. FOR ALL SEWERS AND WATERMAIN IN FILL SECTIONS, THE COMPACTION SHALL BE VERIFIED PRIOR TO LAYING OF PIPE.
6. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE REGIONAL ENGINEER, CITY OF BURLINGTON OR THE ENGINEER.
7. ALL EXCAVATIONS TO BE BACKFILLED WITH SELECT NATIVE MATERIAL, APPROVED BY THE ENGINEER, TO 95% SPD.
8. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING SILT CONTROL DEVICES AS SHOWN ON THE DRAWINGS AND AS DIRECTED BT THE ENGINEER.
9. TREE PROTECTION PROCEDURES TO BE IMPLEMENTED IN ACCORDANCE WITH CITY OF BURLINGTON STANDARDS.
10. THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SEALED BY THE ENGINEER AND INDICATED ISSUED FOR CONSTRUCTION ON THE DRAWING.
11. THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF S. LLEWELLYN AND ASSOCIATES LIMITED.
12. INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN ON THE APPROVED SET OF CONSTRUCTION DRAWINGS ARE FURNISHED AS THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE SEES FIT WITH THE UNDERSTANDING THAT THE OWNER AND HIS AGENTS DISCLAIM ALL RESPONSIBILITY FOR ITS ACCURACY AND /OR SUFFICIENCY. THE CONTRACTOR SHALL ASSUME LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
13. EXISTING TOPOGRAPHIC INFORMATION TAKEN FROM INFORMATION PROVIDED BY KING PAVING CONSTRUCTION COMPANY, DATED APRIL 2020 AND APPENDED WITH ADDITIONAL TOPOGRAPHIC AND LEGAL INFORMATION PROVIDED BY A.T. MCLAREN LIMITED, DATED JANUARY 2021, AND THE REGION OF HALTON.
14. SITE PLAN INFORMATION PROVIDED BY KING PAVING AND CONSTRUCTION COMPANY RECEIVED JANUARY 2021.
15. THESE PLANS TO BE READ IN CONJUNCTION WITH THE STORM WATER MANAGEMENT (SWM) REPORT PREPARED BY S. LLEWELLYN AND ASSOCIATES LIMITED, DATED MAY 2021.
16. THIS PLAN TO BE USED FOR SERVICING AND GRADING ONLY, FOR BUILDING LOCATION REFER TO TO THE SITE PLAN.
17. MUNICIPAL APPROVAL OF THESE DRAWINGS IS FOR MATERIAL AND COMPLIANCE WITH CITY OF BURLINGTON AND PROVINCIAL SPECIFICATIONS AND STANDARDS ONLY. APPROVAL AND INSPECTION OF THE WORKS BY THE CITY OF BURLINGTON STAFF DOES NOT CERTIFIY THE LINE AND GRADE OF THE WORKS NOR RELIEVE THE CONTRACTOR OF CERTIFICATION OF ALL WORKS BY THE OWNER'S ENGINEER.
18. ALTERNATE MATERIALS MAY BE ACCEPTABLE PROVIDED WRITTEN APPROVAL HAS FIRST BEEN OBTAINED FROM THE CITY OF BURLINGTON AND THE THE ENGINEER.
19. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING:
    - ROAD CUT PERMITS
    - SEWER PERMITS
    - APPROACH APPROVAL PERMITS
    - RELOCATION OF SERVICES
    - COMMITTEE OF ADJUSTMENT
    - ENCROACHMENT AGREEMENTS
22. PRIOR TO CONSTRUCTION THE CONTRACTOR MUST:
    i. CHECK AND VERIFIY ALL DIMENSIONS AND EXISTING ELEVATIONS WHICH INCLUDE BUT ARE NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS, EXISTING INVERTS AND REPORT FINDING IN WRITING TO THE ENGINEER.
    ii. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
    iii. VERIFY ALL FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS WHICH MY APPEAR ON THESE PLANS COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
    iv. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
    v. NOTIFY THE ENGINEER OF THE PROPOSED CONSTRUCTION SCHEDULE FOR COORDINATION OF NECESSARY INSPECTIONS.
23. **THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ENGINEER 48 HOURS PRIOR TO THE COMMENCING SITE WORKS TO ARRANGE FOR INSPECTION. THE ENGINEER SHALL DETERMINE THE EXTENT OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF THE UNDERGROUND SERVICE INSTALLATION AS MANDATED BY THE ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2, GENERAL REVIEW. FAILURE TO MAKE SUITABLE ARRANGEMENTS FOR INSPECTION WILL LEAD TO POST CONSTRUCTION TESTING AND INSPECTION AS DETERMINED BY THE ENGINEER, THE COSTS OF WHICH INCLUDING ANY DELAYS IN CONSTRUCTION SHALL BE BOURNE BY THE CONTRACTOR. FULL PAYMENT FOR UN-INSPECTED WORKS MAY BE WITHHELD UNTIL THE COMPLETION OF THE POST CONSTRUCTION INSPECTION AND TESTING TO THE SATISFACTION OF THE ENGINEER.**
24. INSPECTION BY THE OWNER'S ENGINEER IS FOR CERTIFICATION AND GENERAL CONFORMANCE PURPOSES AND DOES NOT CERTIFY LINE AND GRADE OR IMPLY AN ASSURANCE OF QUALITY CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THE INSTALLATION OF THE WORKS TO PROPER LINE, GRADE AND QUALITY TO CURRENT INDUSTRY STANDARDS.
25. ANY UTILITY RELOCATIONS AND RESTORATIONS DUE TO THE DEVELOPMENT TO BE UNDERTAKEN AT THE EXPENSE OF THE OWNER/APPLICANT AND SHALL BE COORDINATED BY THE CONTRACTOR.
26. ALL RESTORATIONS AND RECONSTRUCTIONS SHALL BE TO COMPLETED TO MATCH EXISTING CONDITIONS OR BETTER AND ARE TO BE PERFORMED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF BURLINGTON.
27. SERVICING CONTRACTOR TO MAINTAIN A "CONFINED TRENCH CONDITION" IN ALL SEWER AND WATERMAIN INSTALLATION TRENCHES.
28. THE SITE SERVICING CONTRACTOR SHALL TERMINATE ALL SERVICES 1.0m FROM THE BUILDING FACE.
29. NO BLASTING WILL BE PERMITTED.

ROADWORKS:

1. APPROVED FILL, FREE OF DELETERIOUS AND ORGANIC MATERIAL AND BOULDERS SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95% THAN THE STANDARD PROCTOR DENSITY. AFTER COMPACTION, SOIL DENSITY TESTS SHALL BE CONDUCTED TO ENSURE ADEQUATE COMPACTION AND STABILITY OF THE FILL AND TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
2. SUBGRADE TO BE PROOF ROLLED PRIOR TO PLACEMENT OF SUB BASE. UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED WITH SELECT FILL OR GRANULAR "B" AND COMPACTED TO 98% SPD. GEOTECH ENGINEER TO CONFIRM THE VOLUME OF THE UNSUITABLE MATERIALS.
3. ASPHALTIC CONCRETE TO BE COMPACTED TO 97% MARSHALL DENSITY.
4. LANDSCAPED AREAS TO BE RESTORED WITH A MINIMUM 100mm OF SELECT TOPSOIL AND HYDRO SEEDED PER OPSS 804 TO THE SATISFACTION OF THE REGION OF HALTON.
5. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE SET FLUSH WITH BASE COURSE ASPHALT AND ADJUSTED TO FINAL GRADE AFTER INSTALLATION OF SURFACE ASPHALT AS PER CITY OF BURLINGTON STANDARD DRAWINGS S-130.
6. TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES FOR WORKS ON EXISTING ROADWAYS TO THE SATISFACTION OF THE DIRECTOR OF ENGINEERING. THE EXPENSE FOR THE ERECTION OF SIGNS, DELINEATORS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE BORNE BY THE CONTRACTOR.

GRADING NOTES

1. ALONG ADJOINING PROPERTIES GRADE TO MEET EXISTING OR PROPOSED ELEVATIONS WITH SODDED SLOPES (MIN. 3H TO 1V) AND/OR RETAINING WALLS AS SPECIFIED.
2. ALL RETAINING WALLS, WALKWAYS, CURBS, ETC., SHALL BE PLACED A MIN. OF 0.45m OFF THE PROPERTY LINE. ALL WALLS 1.0M OR HIGHER SHALL BE DESIGNED BY A P.ENG.
3. RETAINING WALLS 0.6m IN HEIGHT OR GREATER REQUIRE CONSTRUCTION OF A FENCE OR GUARD RAIL AT THE TOP OF THE REAR OF THE WALL. GUARDS FOR RETAINING WALLS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF EXTERIOR GUARDS AS CONTAINED IN THE ONTARIO BUILDING CODE.
4. TOP OF FOUNDATION WALLS FOR BUILDINGS SHALL BE 150mm (MIN) ABOVE FINISHED GRADE.
5. IF GRADING IS REQUIRED ON LANDS ADJACENT TO THE DEVELOPMENT WHICH ARE NOT OWNED BY THE APPLICANT, THEN THE APPLICANT MUST OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNER TO ALLOW THE APPLICANT TO GRADE ON THE ADJACENT LANDS, OTHERWISE RETAINING WALLS MUST BE USED.
6. THE WRITTEN PERMISSION REQUIRED FROM THE ADJACENT LANDOWNER SHALL BE OBTAINED PRIOR TO ENTERING THE LANDS. SHOULD PERMISSION NOT BE OBTAINED OR IS WITHDRAWN PRIOR TO COMMENCING THE WORK, THEN THE APPLICANT SHALL LIMIT HIS ACTIVITIES TO THE LIMITS OF THE DEVELOPMENT SITE.
7. ANY CHANGES IN GRADES AND CATCH BASINS REQUIRE THE APPROVAL OF THE ENGINEERING CONSULTANT AND THE CITY'S MANAGER OF DEVELOPMENT ENGINEERING.

SILTATION AND EROSION CONTROL

1. SILTATION CONTROL BARRIERS SHALL BE PLACED AS DETAILED.
2. ALL SILTATION CONTROL MEASURES SHALL BE CLEANED AND MAINTAINED AFTER EACH RAINFALL AS DIRECTED AND TO THE SATISFACTION OF THE CITY OF BURLINGTON AND/OR THE HALTON CONSERVATION AUTHORITY.
3. ADDITIONAL SILT CONTROL LOCATIONS MAY BE REQUIRED AS DETERMINED BY THE ENGINEER, THE CITY OF BURLINGTON AND/OR THE HALTON CONSERVATION AUTHORITY.

SANITARY SEWERS:

1. CONSTRUCTION OF ALL WATERMAIN SEWERS, AND RELATED APPURTENANCES SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CURRENT STANDARD DRAWINGS OF THE REGION MUNICIPALITY OF HALTON AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD). THE REGIONS DRAWINGS SHALL TAKE PRECEDENCE OVER THE OPSD DRAWINGS.
2. SANITARY SEWERS SHALL BE PVC. PVC PIPE IS TO BE BELL AND SPIGOT AND COMPLY TO ASTM D-3034 WITH MINIMUM SDR 35.
3. MINIMUM BEDDING REQUIREMENTS FOR ALL SANITARY SEWER MAINS AND RELATED CONNECTIONS IN A SINGLE TRENCH SHALL BE CLASS B GRANULAR BEDDING AS PER OPSD 802.010 UNLESS OTHERWISE NOTED.
4. SANITARY SEWER MANHOLES FRAME AND COVER AS PER OPSD 401.01.
5. ALL PVC LATERALS TO BE SDR 28 AND SHALL BE ANY COLOUR EXCEPT WHITE. MINIMUM SLOPE OF LATERAL TO BE 2.0%.
6. TAPPING AT EXISTING SANITARY MANHOLES SHALL BE UNDERTAKEN IN ACCORDANCE WITH REGION OF HALTON REQUIREMENTS.
7. ALL SEWERS TO BE VIDEO INSPECTED.
8. ALL SEWERS TO BE FLUSHED PRIOR TO VIDEO INSPECTION.
9. ALL PVC SEWERS ARE TO BE TESTED FOR DEFLECTION (MANDREL PASSAGE) AFTER INSTALLATION. SANITARY SEWERS SHALL ALSO BE TESTED FOR LEAKAGE (LOW AIR PRESSURE). PRIOR TO ASSUMPTION BY THE CITY, PIPE DEFLECTION TESTING SHALL BE REPEATED.

STORM SEWERS:

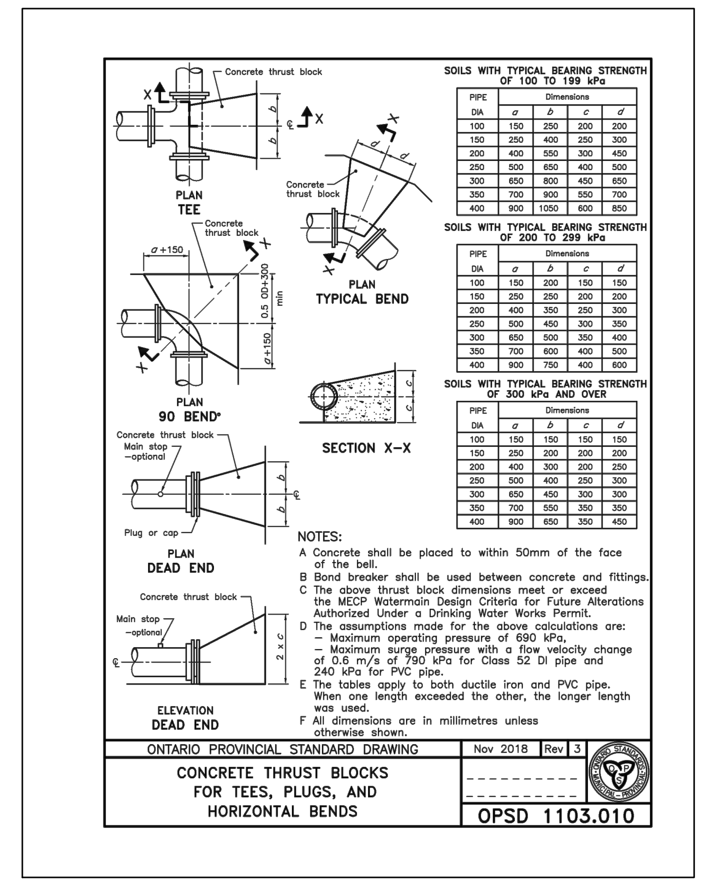
1. CONSTRUCTION OF ALL WATERMAIN SEWERS, AND RELATED APPURTENANCES SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CURRENT STANDARD DRAWINGS OF THE CITY OF BURLINGTON AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD). THE CITY'S DRAWINGS SHALL TAKE PRECEDENCE OVER THE OPSD DRAWINGS.
2. 250mm-525mm STORM SEWERS SHALL BE PVC, BELL AND SPIGOT AND SHALL COMPLY TO ASTM D-3034 WITH MINIMUM SDR 35.
3. MINIMUM BEDDING REQUIREMENTS FOR ALL SINGLE STORM SEWER MAINS AND ALL RELATED CONNECTIONS SHALL BE HIGH PERFORMANCE CLEAR STONE (HL-8 GRADED) AS PER CITY OF BURLINGTON STANDARD DRAWINGS S-188.
4. STORM SEWER MANHOLES SHALL BE IN ACCORDANCE WITH OPSD 701.010. AND 701.011. FRAME AND COVER AS PER OPSD 401.01 TYPE A. FRAMES TO BE STAMPED "DANGER" AND "STORM".
5. CATCHBASINS SHALL BE IN ACCORDANCE WITH OPSD 705.010. CATCHBASIN MANHOLES SHALL BE IN ACCORDANCE WITH OPSD 701.010 AND 701.030 UNLESS OTHERWISE SPECIFIED. CATCHBASINS TO LOCATED WITHIN LANDSCAPED AREAS TO BE SUMPLESS. FRAME AND COVER FOR CATCHBASINS AND CATCHBASIN MANHOLES SHALL BE AS PER OPSD 400.100 (ROADS).
6. DOUBLE CATCH BASINS SHALL BE IN ACCORDANCE WITH OPSD 705.020 WITH 250mm DIA. LEAD. FRAMES AND COVERS TO BE OPSD 400.11 (ROADS) AND CITY OF BURLINGTON STD. S-176 (REAR YARDS). LEADS TO BE PVC SDR 35.
7. CATCH BASIN AND MANHOLE TOPS SHALL BE INITIALLY SET TO BASE COURSE ASPHALT ELEVATION AND ADJUSTED TO GRADE PRIOR TO PLACEMENT OF TOP LIFT OF ASPHALT.
8. ALL TRENCH EXCAVATIONS ARE TO BE BACKFILLED WITH SELECT NATIVE MATERIAL PLACED IN MAXIMUM 200mm LIFT THICKNESSES WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 95% SPD, UNLESS OTHERWISE SPECIFIED.
9. INVERTS OF ALL SWALES TO BE SODDED TO A MINIMUM WIDTH OF 3.0m. ALL OTHER DISTURBED AREAS TO BE TOPSOILED AND SEEDED. SOD SHALL BE #1 NURSERY LAID ON A MINIMUM OF 100mm OF TOPSOIL.
10. ALL SEWERS TO BE VIDEO INSPECTED.
11. ALL SEWERS TO BE FLUSHED PRIOR TO VIDEO INSPECTION.
12. ALL PVC SEWERS (SANITARY AND STORM) ARE TO BE TESTED FOR DEFLECTION (MANDREL PASSAGE) AFTER INSTALLATION. PRIOR TO ASSUMPTION BY THE CITY, PIPE DEFLECTION TESTING SHALL BE REPEATED.

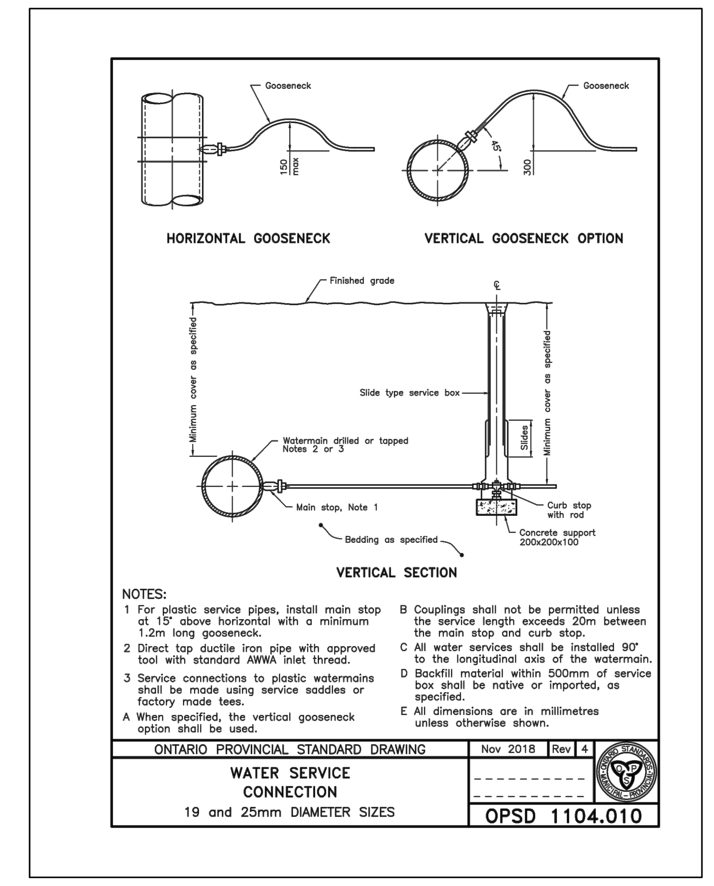
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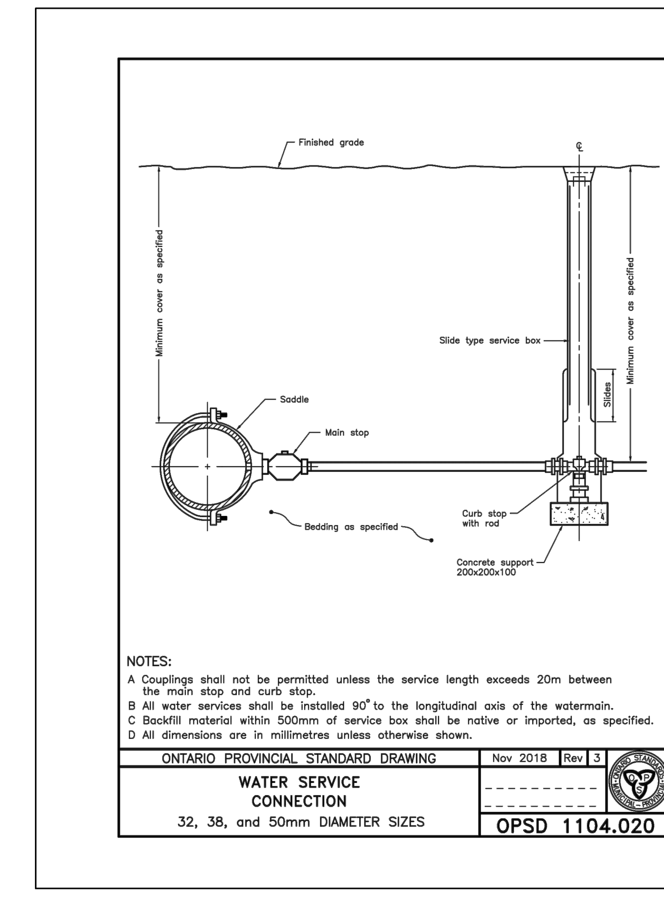
1. CONSTRUCTION OF ALL WATERMAIN SEWERS, AND RELATED APPURTENANCES SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CURRENT STANDARD DRAWINGS OF THE REGION MUNICIPALITY OF HALTON AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD). THE REGIONS DRAWINGS SHALL TAKE PRECEDENCE OVER THE OPSD DRAWINGS.
2. FLEXIBLE WATERMAIN PIPE UP TO 300mm DIAMETER TO BE P.V.C. DR-18 AND CONFORM TO A.W.W.A. C-900 WITH MECHANICAL JOINTS AS PER A.W.W.A. C-110, AND TO BE INSTALLED WITH A 10 GAUGE TRACER WIRE.
3. FLEXIBLE PIPE BEDDING TO BE OPSD 802.010 WITH COMPACTED GRANULAR B MATERIAL.
4. MINIMUM COVER TO BE 1.7m TO TOP OF PIPE.
5. DEFLECTION AT JOINTS NOT TO EXCEED 2.5 DEGREES AND SHALL BE EQUAL AT ALL JOINTS.
6. GATE VALVES AND BOXES FOR 150mm AND 250mm DIAMETER WATERMAINS AS PER A.W.W.A. STANDARD C-500 AND ARE TO OPEN TO THE LEFT (COUNTER CLOCKWISE).
7. HYDRANTS SHALL MEET THE REQUIREMENTS OF A.W.W.A. STANDARD C-502 AND SHALL BE SET IN ACCORDANCE WITH REGION OF HALTON, AND CITY OF BURLINGTON BUILDING DEPARTMENT STANDARDS, COMPLETE WITH STEAMER CONNECTIONS. THE 100mm STEAMER PORT SHALL FACE THE FIRE ROUTE AND SHALL BE UNOBSTRUCTED BY ANY PROPOSED LANDSCAPING.
8. ALL FITTINGS TO HAVE MECHANICAL RESTRAINTS THAT MEET UNI-B-13-92.
9. ALL TEMPORARY AND PERMANENT WATERMAIN PLUGS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH OPSD 1103.01.
10. TAPPING AT EXISTING WATERMAINS SHALL BE UNDERTAKEN IN ACCORDANCE WITH REGION OF HALTON REQUIREMENTS.
11. ALL WATER CUSTOMERS SUPPLIED BY A WATERMAIN TO BE SHUT DOWN SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS IN ADVANCE OF THE SHUT DOWN AS PER REGION OF HALTON SPECIFICATIONS. NOTIFICATION SHALL TAKE PLACE UNDER THE ENGINEER'S DIRECTION.
12. MINIMUM HORIZONTAL SEPERATION BETWEEN WATERMAINS (INCLUDING PRIVATE SERVICES) AND STORM AND SANITARY SEWERS SHALL BE 2.5m. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 150mm OVER AND 500mm UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
13. WATER SERVICE CONNECTIONS (25mm DIA. TYPE 'K' SOFT COPPER) AS PER OPSD 1104.01 AND OPSD 1104.02.

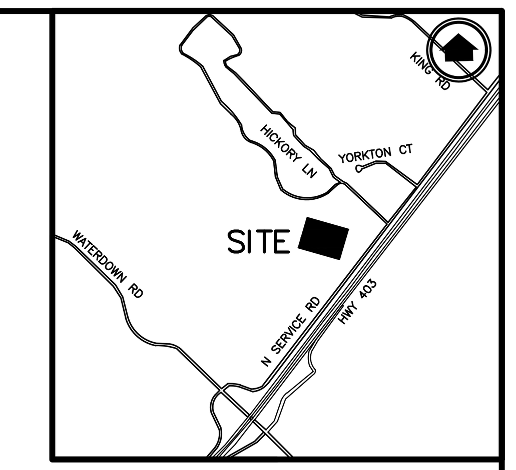
RESTORATIONS:

14. ALL TRENCH EXCAVATIONS WITHIN EXISTING ROAD ALLOWANCES SHALL BE AS BACKFILLED AS PER CITY OF BURLINGTON STANDARD DRAWING S-114 AND S-114A.
15. EXISTING PRIVATE FENCING IS TO BE MAINTAINED THROUGHOUT CONSTRUCTION. WHERE REMOVAL OR RELOCATION OF FENCING IS NECESSARY IT SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITIONS OR BETTER UNDER THE DIRECTION OF THE ENGINEER.
16. DAMAGED CURB, GUTTER AND SIDEWALK TO BE REPLACED WITH 28 MPa CONCRETE TO EXISTING CONDITIONS OR BETTER.
17. PAVEMENT SURFACE ON EXISTING NORTH SERVICE ROAD TO BE REPAIRED BY CONTRACTOR AT THEIR EXPENSE IF DAMAGED BY CONSTRUCTION TRAFFIC.

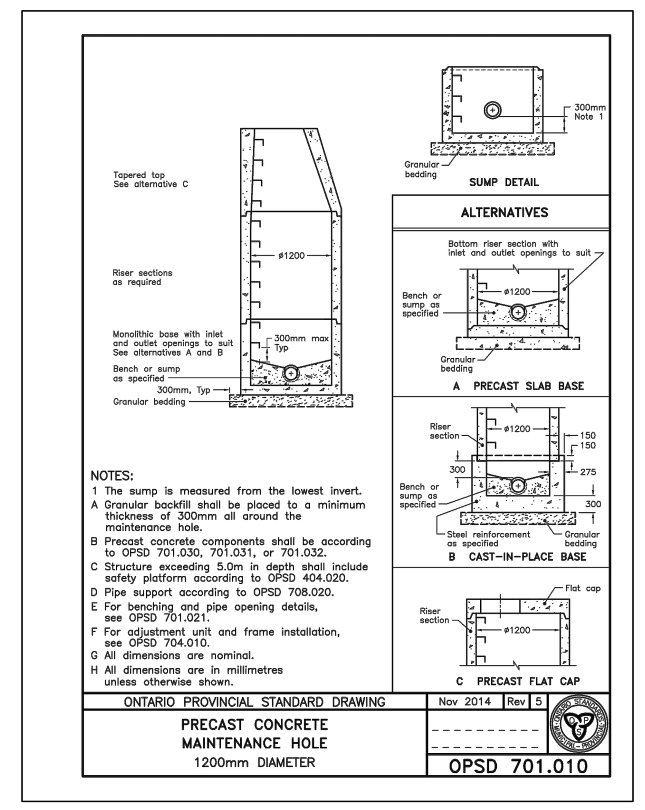


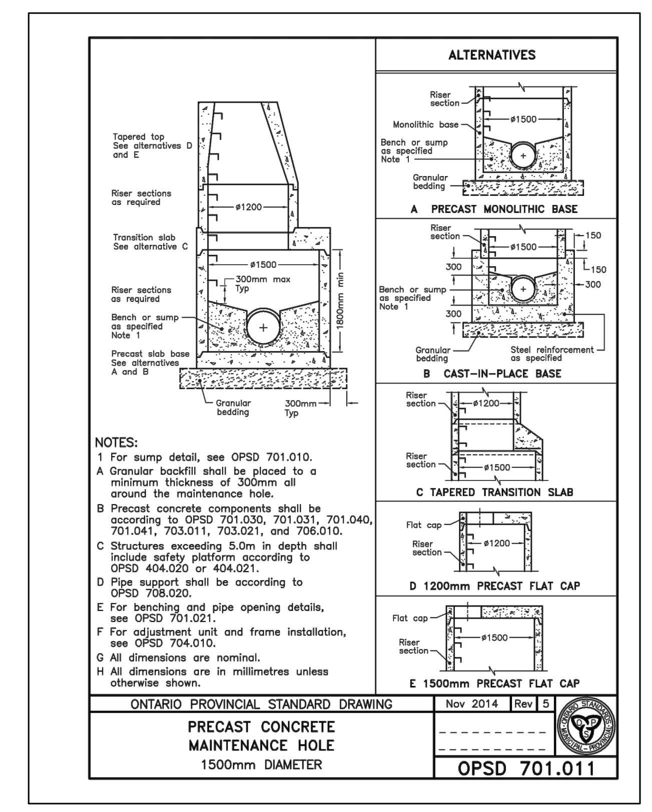


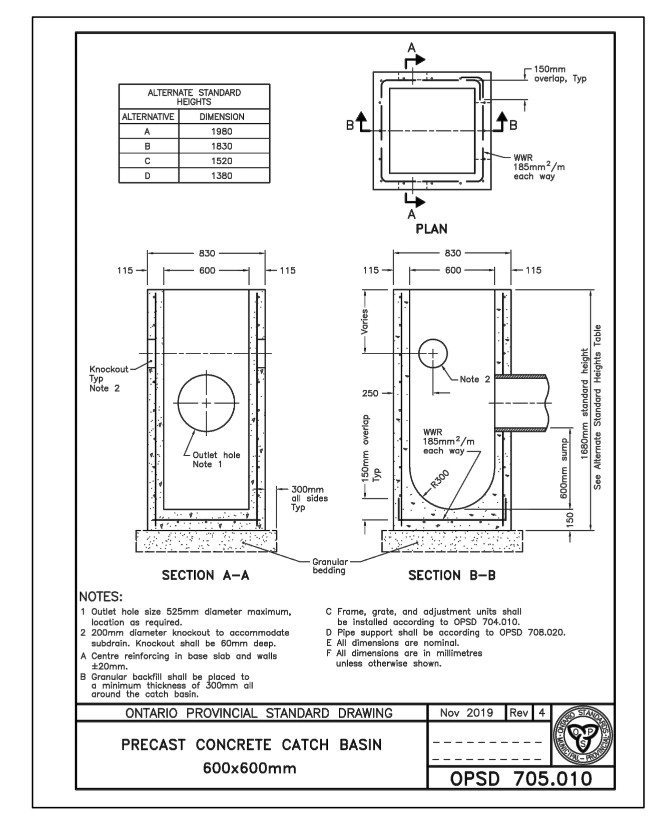


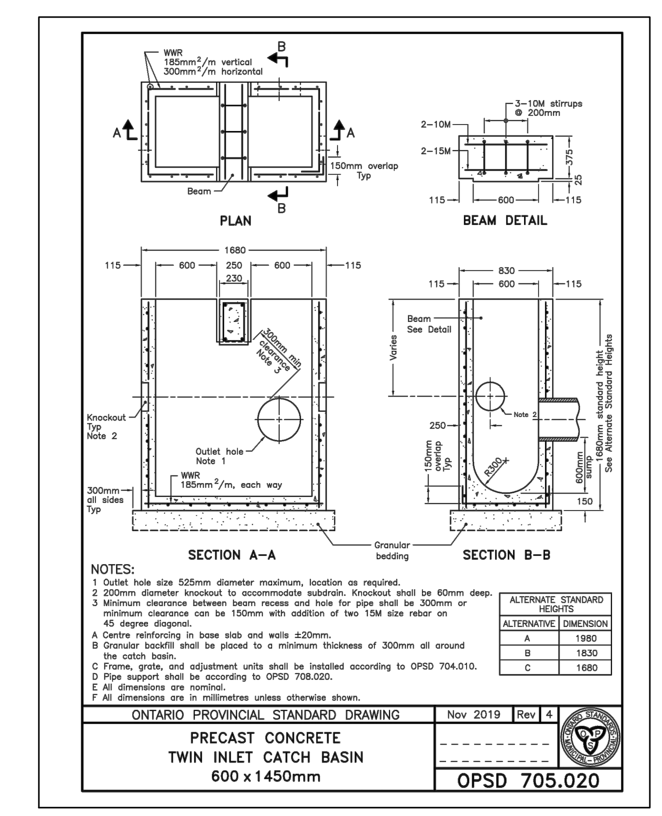


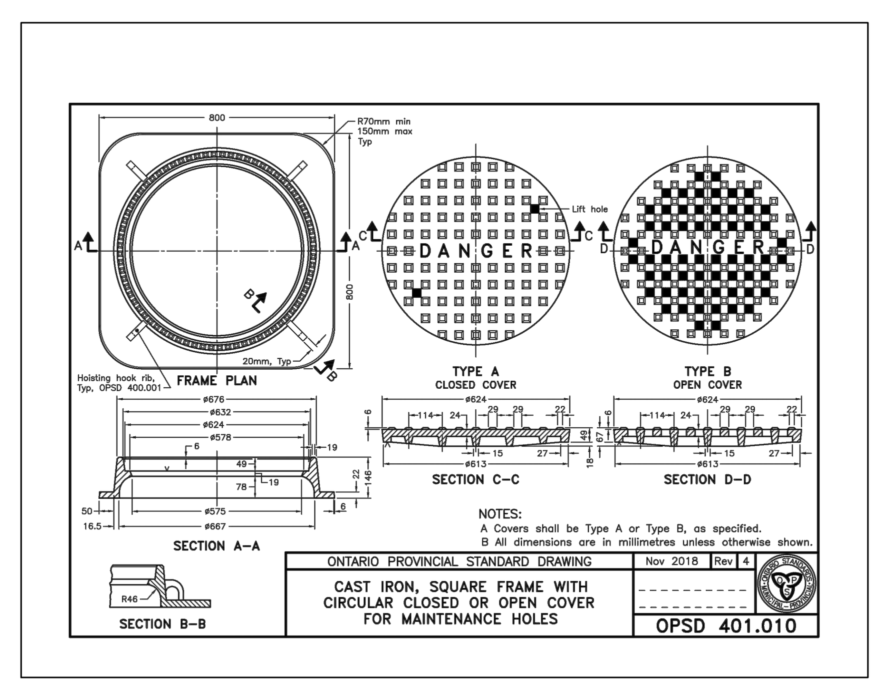
KEY MAP
N.T.S.

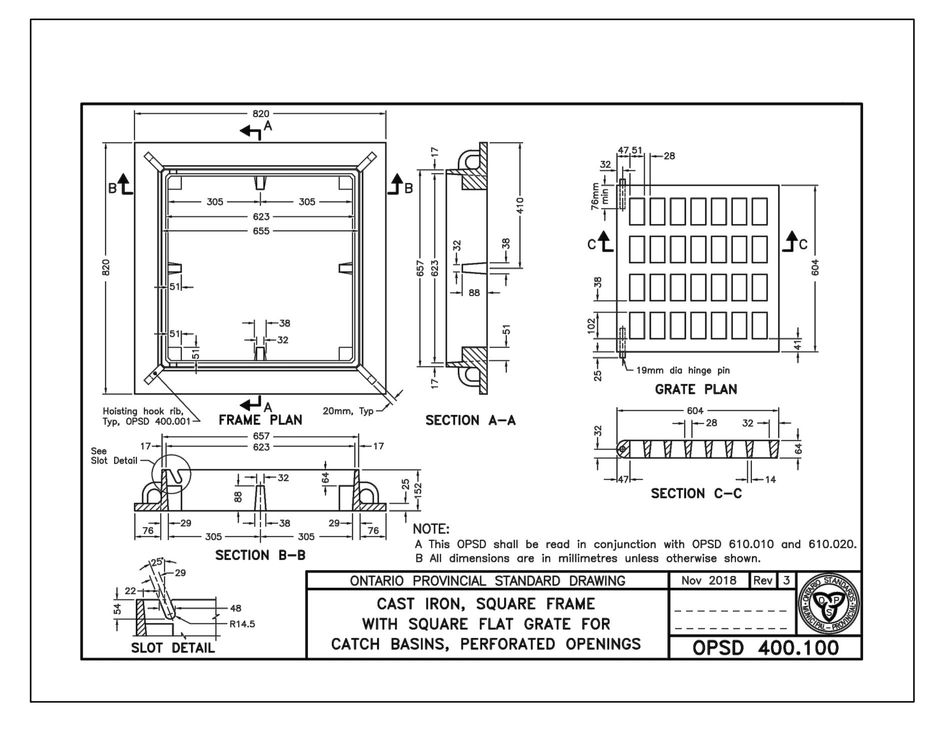


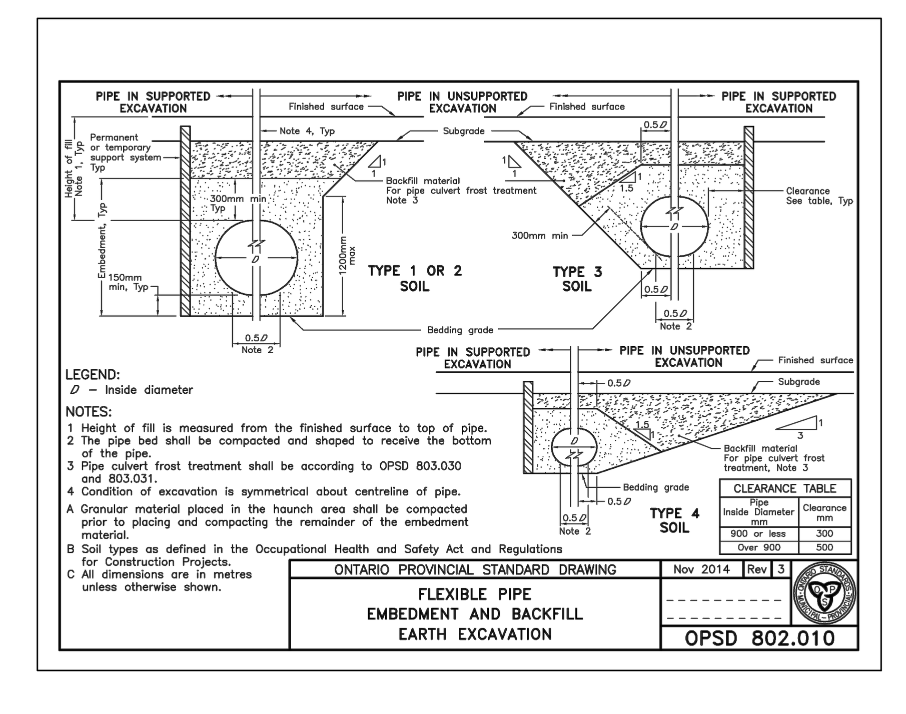












REGIONAL APPROVAL:
REGION DESIGN OF WATER &/OR WASTWATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANARDS & SPECIFICATIONS & LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED:________________ DATED: ________

INFRASTRUCTURE PLANNING & POLICY

The Applicant should be aware that the approval of the water system on private property is the responsibility of the Local Municipality. Regardless, the Applicant must ensure that the Region of Halton's standards and specifications are met. (The Water and Wastewater Linear Design Manual may be obtained thru the Data Management Group at 905-825-6032) Furthermore, all water quality tests must be completed to the Region of Halton's satisfaction, before the water supply can be turned on.

NOTES TO CONTRACTOR:
1. CONTRACTORS AND SUBCONTRACTORS SHALL NOT SCALE FROM THIS DRAWING.
2. ANY INCONSISTENCIES AND OMISSIONS FOUND ON THE DRAWINGS MUST BE REPORTED TO THE ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ALL FINDINGS TO THE ENGINEER. ONCE CONSTRUCTION HAS COMMENCED, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS.
4. THE POSITIONS OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVER-GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWING, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
5. ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REUSED, OR REVISED WITHOUT THE WRITTEN CONSENT OF S. LLEWELLYN AND ASSOCIATES LIMITED.

NO.	DATE	BY	REVISIONS
6.0	AUG. 2023	AS	REVISED PER DECEMBER 2021 COMMENTS
5.0	SEPT 2022	BH	ISSUED FOR HYDRO ONE REVIEW
4.0	MAY 2022	SD	AS PER ROAD WIDENING REQUIREMENTS
3.0	NOV. 2021	SJD	AS PER REVISED SITE LAYOUT PLAN
2.0	AUG. 2021	RB	ISSUED FOR SITE PLAN APPROVAL

DESIGN	RB	CHK'D		DATE May 27, 2021
DRAWN	RB	CHK'D		

BENCH MARK NOTE:
UNDERGROUND SERVICE AND UTILITY LOCATIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION

INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION

STAMP

S. LLEWELLYN & ASSOCIATES LIMITED
CONSULTING ENGINEERS
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CLIENT
KING PAVING AND CONSTRUCTION COMPANY
3385 HARVESTER ROAD, BURLINGTON ONTARIO

PROJECT NAME
291 NORTH SERVICE ROAD ASPHALT PLANT
BURLINGTON, ONTARIO
SITE PLAN No.: T.B.D.

TITLE
GENERAL NOTES AND DETAILS PLAN

PROJECT No. 20036
DRAWING No. C-101
SCALE N.T.S.

S:\20036\WORKING_Current\20036 – Title Sheet & General Notes.dwg
Plotted: August 8, 2023 5:11:52 PM By: Alyssa Stiletto

MAINTAINED AND DIVERTED UNDER PROPOSED LANEWAYS WITH CULVERTS WHERE REQUIRED

ROAD SIDE DITCH TO DIRECT FLOWS TO THE EXISTING DITCHING ALONG THE NORTH SERVICE ROAD

7.5m WIDE R.O.H. AND KING SHARED ACCESS ROAD c/w MIN. 1.0m SHOULDER (IN/OUT ACCESS)

PROPOSED GRADES TO MATCH INTO EXISTING ALONG LOT LINE

8.0m WIDE ROAD c/w MIN. 2.50m SHOULDER

Ex. RIGHT-OF-WAY

NORTH SERVICE ROAD

Ex. PROPERTY LINE

R15.00m

PROPOSED HICKORY LANE

Ex. PROPERTY LINE

COLD FEED BINS

SILOS & SCALE

15.90m

PROPOSED RETAINING WALL

PROPOSED ASPHALT PLANT

AGG SCALP SCREEN

DRYER

CONVEYOR

RCY. SCALP SCREEN

CONVEYOR

CONTROL CENTRE

2.60m

5.60m

PARKING

HOT ELEVATOR & CONVEYOR

BAGHOUSE

FEED BINS

AC TANKS

33.40m

OIL HEATER

CONTROL CENTRE

PROPOSED SWM FACILITY

MIN. 5.0m WIDE EXIT ROAD c/w MIN. 1.0m SHOULDER FROM ASPHALT PLANT – KING USE ONLY

PROPOSED DRY POND FACILITY TO OUTLET TO EXISTING CHANNEL

MIN. 7.5m WIDE ACCESS ROAD c/w MIN. 1.0m SHOULDER TO ASPHALT PLANT – KING USE ONLY (IN/OUT ACCESS)

LIMIT OF WETLAND

PROPOSED RETAINING WALL (TYPICAL WHERE SHOWN, DESIGN BY OTHERS)

RAMP FROM MATERIALS STORAGE AREA TO ASPHALT PLANT

PROPOSED RETAINING WALL (TYPICAL WHERE SHOWN, DESIGN BY OTHERS)

PROPOSED DRY POND FACILITY FOR QUANTITY CONTROL. QUALITY CONTROL TO BE PROVIDED USING OIL/GRIT SEPARATOR

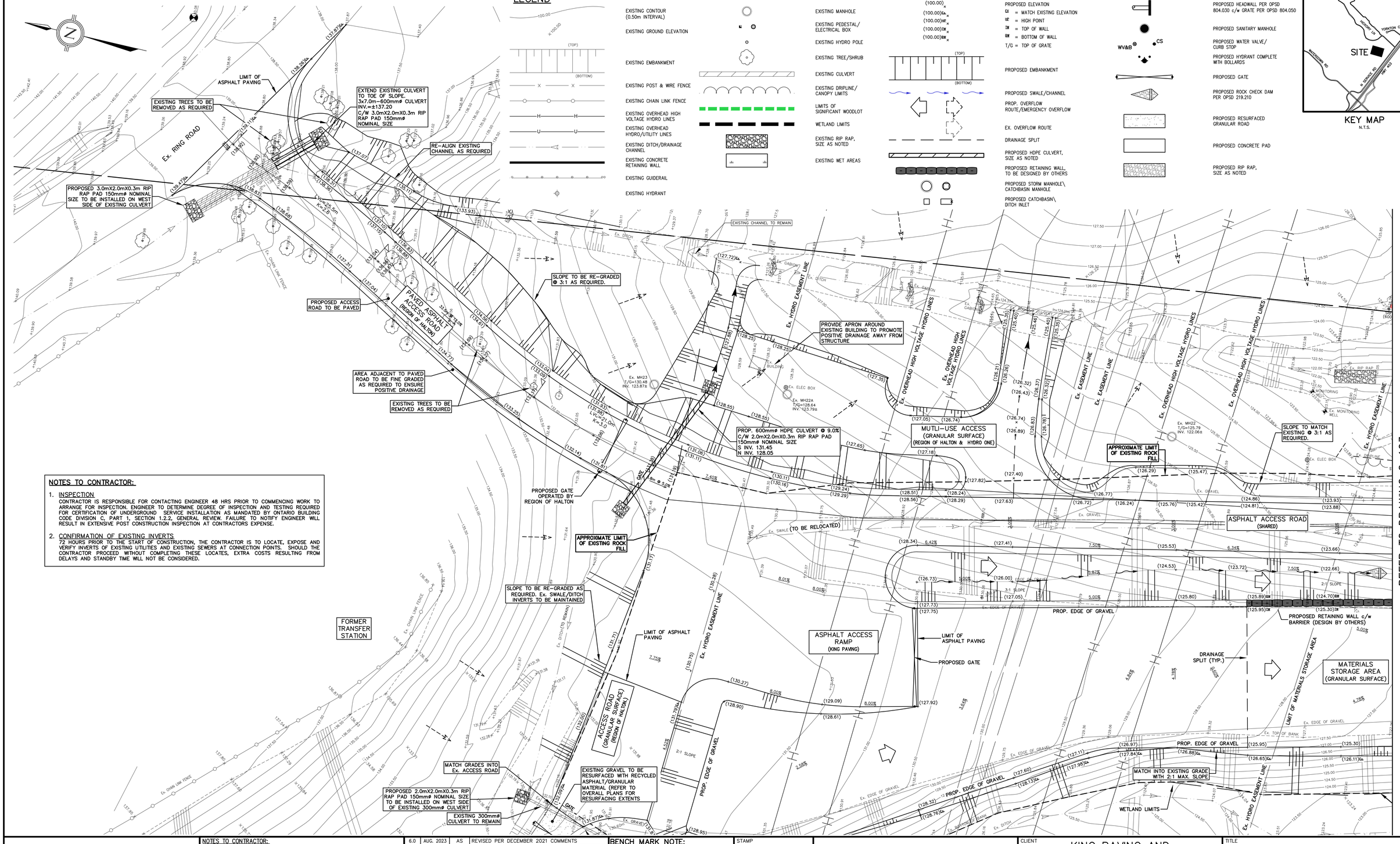
LANDS TO BE REZONED TO BC-2 (MODIFIED)

PROP. 14.0m MTO SETBACK

PROP. 5.6m ROAD WIDENING

Ex. RIGHT-OF-WAY

Ex. 403 CULVERT CROSSING



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4.0	MAY 2022	SD	AS PER ROAD WIDENING REQUIREMENTS
3.0	NOV. 2021	SJD	AS PER REVISED SITE LAYOUT PLAN
2.0	AUG. 2021	RB	ISSUED FOR SITE PLAN APPROVAL

DESIGN	RB	CHK'D		DATE
DRAWN	RB	CHK'D		May 27, 2021

BENCH MARK NOTE:
UNDERGROUND SERVICE AND UTILITY LOCATIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION

INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION

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email: info@sla.on.ca
3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

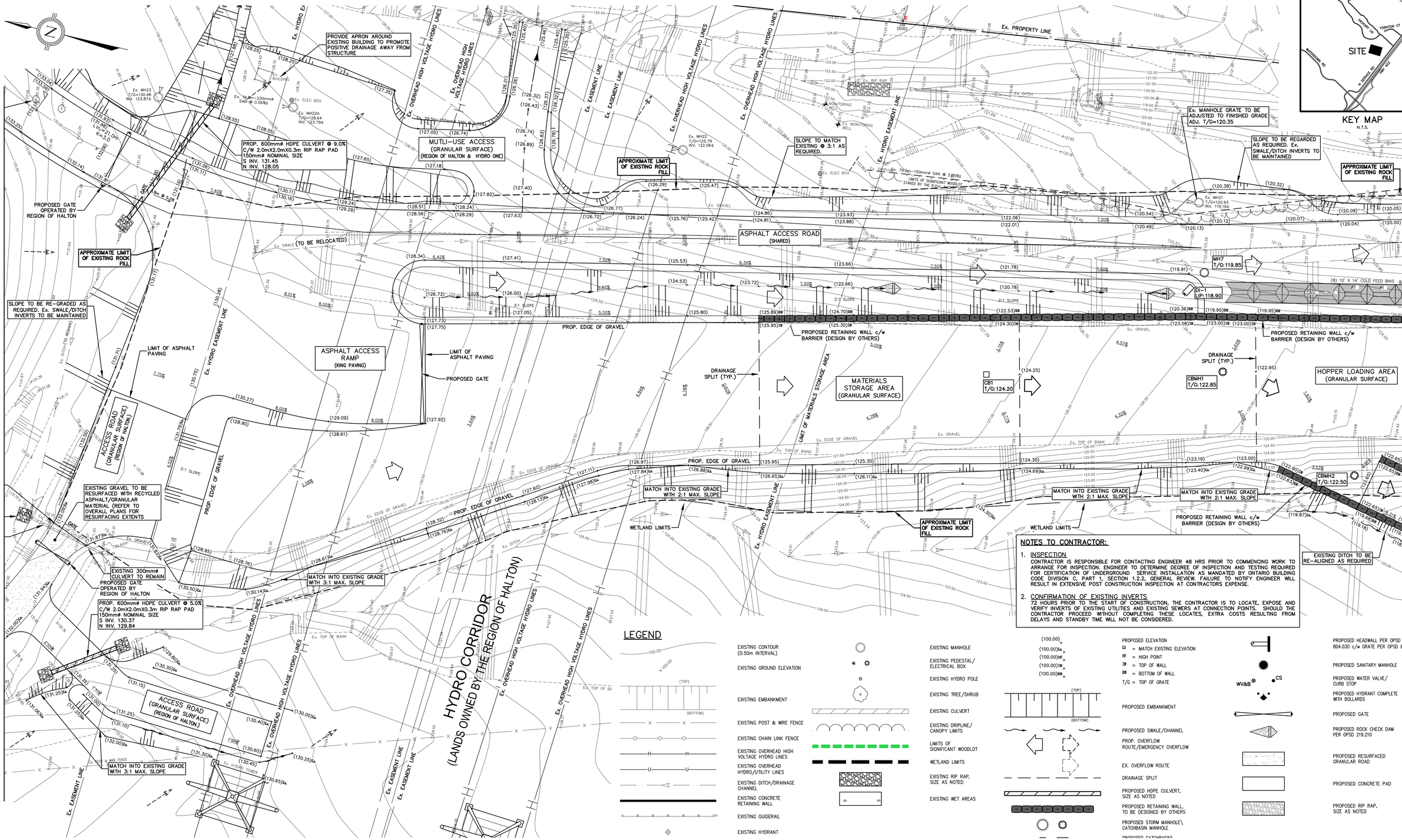
CLIENT
KING PAVING AND CONSTRUCTION COMPANY
3385 HARVESTER ROAD, BURLINGTON ONTARIO

PROJECT NAME
291 NORTH SERVICE ROAD
ASPHALT PLANT
BURLINGTON, ONTARIO
SITE PLAN No.: T.B.D.

TITLE
GRADING PLAN
SHEET 1 of 4

PROJECT No. 20036
DRAWING No. C-103
SCALE 1:250 (0, 5, 10, 15, 20, 25)

S:\20036\WORKING_Current\20036-Site Servicing and Grading.dwg
Plotted: August 10, 2023 10:46:27 AM By: Alyssa Stiletto



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EXISTING GROUND ELEVATION
EXISTING EMBANKMENT
EXISTING POST & WIRE FENCE
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EXISTING CULVERT
EXISTING DRIPLINE/ CANOPY LIMITS
LIMITS OF SIGNIFICANT WOODLOT
WETLAND LIMITS
EXISTING RIP RAP, SIZE AS NOTED
EXISTING WET AREAS
PROPOSED ELEVATION
EX = MATCH EXISTING ELEVATION
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PROPOSED HYDRANT COMPLETE WITH BOLLARDS
PROPOSED GATE
PROPOSED ROCK CHECK DAM PER OPSD 219.210
PROPOSED RESURFACED GRANULAR ROAD
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ASPHALT PLANT
BURLINGTON, ONTARIO
SITE PLAN No.: T.B.D.

TITLE
GRADING PLAN
SHEET 2 of 4

PROJECT No. 20036
DRAWING No. C-104
SCALE 1:250 (0, 5, 10, 15, 20, 25)

S:\20036\WORKING_Current\20036-Site Servicing and Grading.dwg
Plotted: August 10, 2023 10:46:32 AM By: Alyssa Stiletto

391 NORTH SERVICE ROAD
(LANDS OWNED BY THE REGION OF HALT(

KEY MAP
N.T.S.

REFER TO DRAWING C-103

REFER TO DRAWING C-105

MATCH INTO EXISTING GRADE WITH 3:1 SLOPE

Ex. RISER PIPE TO BE REOMVED AND REPLACE WITH 1200mm⌀ PRE-CAST MANHOLE PER OPSD 701.010 c/w WITH GRATE PER OPSD 401.010 (TYPE A). RISER PIPE AND RELATED DELETERIOUS MATERIAL TO BE REMOVED AND DISPOSED OFFSITE T/G=119.10

Ex. PROPERTY LINE

Ex. POST & WIRE FENCE

PROP. 40.5m-900mm⌀ HDPE CULVERT @ 1.5% C/W 2.0mX2.0mX0.3m RIP RAP PAD 150mm⌀ NOMINAL SIZE S INV. 117.50 N INV. 118.10

Ex. RISER PIPE TO BE REOMVED AND REPLACE WITH 1200mm⌀ PRE-CAST MANHOLE PER OPSD 701.010 c/w WITH GRATE PER OPSD 401.010 (TYPE A). RISER PIPE AND RELATED DELETERIOUS MATERIAL TO BE REMOVED AND DISPOSED OFFSITE T/G=117.65

ASPHALT ACCESS ROAD (SHARED)

PROPOSED GATE OPERATED BY KING PAVING CONSTRUCTION COMPANY AND THE REGION OF HALTON

167.190m @ 2.40%

Ex. PROPERTY LINE

WV&B

PROPOSED HICKORY LANE

PROPOSED GATES OPERATED BY KING PAVING & CONSTRUCTION COMPANY

Ex. MANHOLE GRATE TO BE ADJUSTED TO FINISHED GRADE ADJ. T/G=120.35

SLOPE TO BE REGARDED AS REQUIRED. Ex. SWALE/DITCH INVERTS TO BE MAINTAINED

APPROXIMATE LIMIT OF EXISTING ROCK FILL

ASPHALT ACCESS ROAD (SHARED)

PROP. 2.0mX2.0mX0.3m RIP RAP PAD 150mm⌀ NOMINAL SIZE

49.5m-900mm⌀ HDPE CULVERT @ 3.0%

200-300m RIP-RAP SPILL MAX. 0.5m THICK MIN OVER TERRAIN 270m GEOTEXTILE

LIMIT OF WETLAND (AS PER C.H. AUGUST 2020)

EMERGENCY OVERFLOW WEIR

EXISTING ELECTRICAL BOX TO BE RELOCATED (DESIGN BY OTHERS)

ASPHALT LOADING AREA

PROP. LANDSCAPED AREA

ASPHALT ENTRANCE

MH7 T/G:119.85

CBMH8 T/G:118.65

CBMH9 T/G:118.00

MH10 T/G:118.05

MH12 T/G:116.80

TOP OF POND ELEV.=116.80

TOP OF WEIR ELEV.=116.00

DI-1 LIP:118.90

(8) 10' X 14' COLD FEED BINS

INBOUND TRUCK SCALE

TRUCK SCALE

SILO 4 SILO 3 SILO 2 SILO 1

PROPOSED RETAINING WALL c/w BARRIER (DESIGN BY OTHERS)

DI-2 C/W OUTLET STRUCTURE (AS PER DETAIL 2)

PROP. 14.0m MTO SETBACK

5:1 MAX

DRAINAGE SPLIT (TYP.)

CBMH1 T/G:122.85

HOPPER LOADING AREA (GRANULAR SURFACE)

PROPOSED RETAINING WALL c/w BARRIER (DESIGN BY OTHERS)

DRAG SLAT

CALIB. POINT

10'X36' DRYER BURNER

12' O.D. CYCLONE

HOT ELEVATOR

14' TWIN SHAFT MIXER

184.000 CFM BAGHOUSE

EXHAUST FAN

AC TANK #1 AC TANK #2 AC TANK #3

ASPHALT PLANT AREA (GRANULAR SURFACE)

CONTROL CENTRE

PARKING

LIMIT OF ASPHALT PAVING

HYD. SET c/w BOLLARDS

MH11 T/G:118.42

MH6 T/G:119.75

TOP OF POND ELEV.=116.80

4:1 SLOPES

Ex. EDGE OF GRAVEL

RCY. SCALP SCREEN

RCY SCALE CONV.

AGG SCALP SCREEN

AGG SCALE CONV.

(2) 10' X 14' FEED BINS

ASPHALT RAMP

MH3 T/G:120.47

CBMH4 T/G:119.35

CBMH5 T/G:119.35

MATCH INTO EXISTING GRADE WITH 2:1 MAX. SLOPE

PROPOSED RETAINING WALL c/w BARRIER (DESIGN BY OTHERS)

EXISTING DITCH TO BE RE-ALIGNED AS REQUIRED

PROP. HEADWALL (AS PER OPSD 804.040 & 804.050) INV. 115.66

BOTTOM OF POND ELEV.=115.45

200-300m RIP-RAP SPILL MAX. 0.5m THICK MIN OVER TERRAIN 270m GEOTEXTILE

100-YR PONDING ELEV.=116.90

TOP OF POND ELEV.=116.70

LIMIT OF WETLAND (AS PER C.H. AUGUST 2020)

APPROXIMATE LIMIT OF EXISTING ROCK FILL

Ex. WET AREA

Ex. TREED AREA

Ex. MH20 T/G=118.87 INV. 117.27±

STAKED BY THE R.O.H. AUGUST 2020.

Ex. MH19 T/G=117.13 INV. 114.79±

Ex. MH18 T/G=115.53 N INV. 113.36± S INV. 113.32±

Ex. MH21 T/G=120.93 INV. 119.19±

Ex. CULVERT

Ex. 900mm CSP CULVERT

Ex. DRIPLINE

Ex. ELEC

Ex. SWALE

Ex. GRAVEL

Ex. POST & WIRE FENCE

GATE

LEGEND

EXISTING CONTOUR (0.50m INTERVAL)

EXISTING GROUND ELEVATION

EXISTING EMBANKMENT

EXISTING POST & WIRE FENCE

EXISTING CHAIN LINK FENCE

EXISTING OVERHEAD HIGH VOLTAGE HYDRO LINES

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EX. OVERFLOW ROUTE

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PROPOSED HDPE CULVERT, SIZE AS NOTED

PROPOSED RETAINING WALL, TO BE DESIGNED BY OTHERS

PROPOSED STORM MANHOLE\ CATCHBASIN MANHOLE

PROPOSED CATCHBASIN\ DITCH INLET

PROPOSED SANITARY MANHOLE

PROPOSED WATER VALVE/ CURB STOP

PROPOSED HYDRANT COMPLETE WITH BOLLARDS

PROPOSED GATE

PROPOSED ROCK CHECK DAM PER OPSD 219.210

PROPOSED RESURFACED GRANULAR ROAD

PROPOSED CONCRETE PAD

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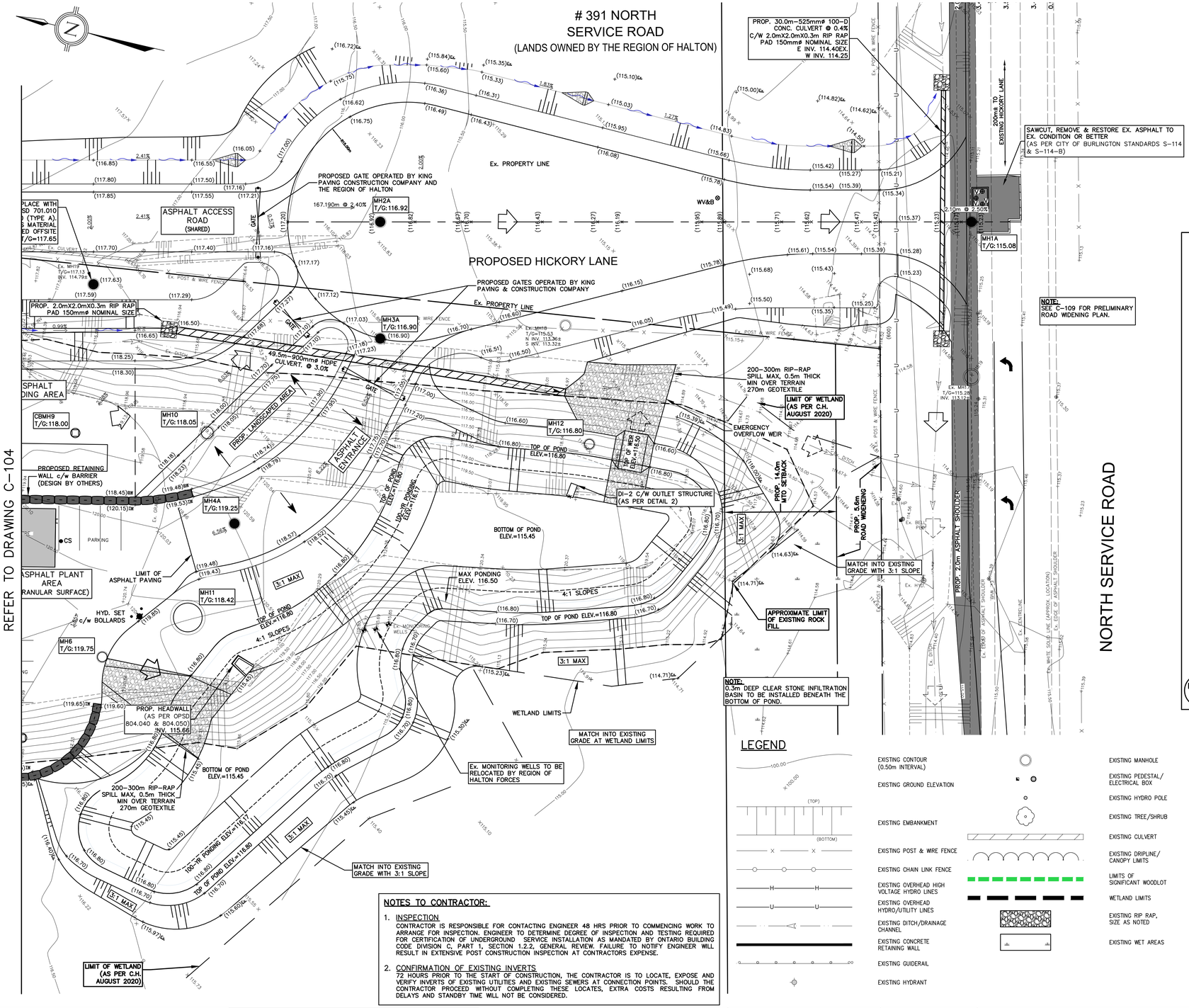
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SITE GRADING PLAN
SHEET 3 of 4

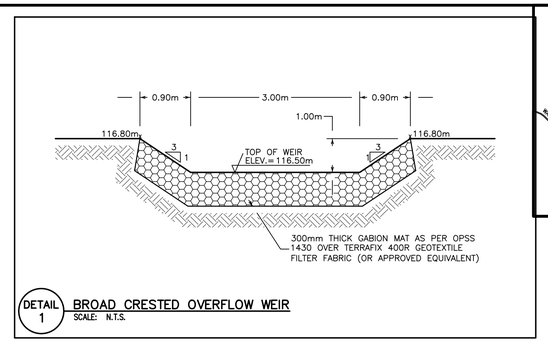
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DRAWING No. C-105

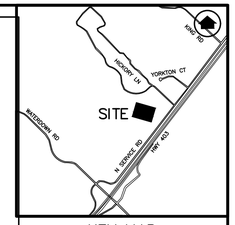
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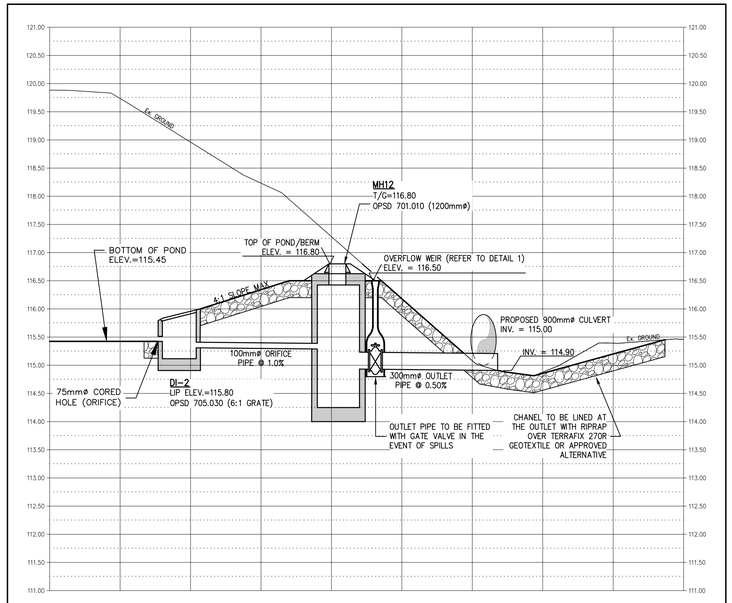




DETAIL 1 — BROAD CRESTED OVERFLOW WEIR
SCALE: N.T.S.



KEY MAP
N.T.S.



DETAIL 2 — SWM FACILITY OUTLET DETAIL
SCALE: NTS

LEGEND

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EXISTING EMBANKMENT
EXISTING POST & WIRE FENCE
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2.0	AUG. 2021	RB	ISSUED FOR SITE PLAN APPROVAL

DESIGN	RB	CHK'D		DATE
DRAWN	RB	CHK'D		May 27, 2021

BENCH MARK NOTE:
UNDERGROUND SERVICE AND UTILITY LOCATIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION

INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION

STAMP

S. LLEWELLYN & ASSOCIATES LIMITED
CONSULTING ENGINEERS
Tel. (905) 631–6978
Website: www.sla.on.ca
email: info@sla.on.ca
3228 South Service Road, Suite #105 East Wing, Burlington, Ont., L7N 3H8

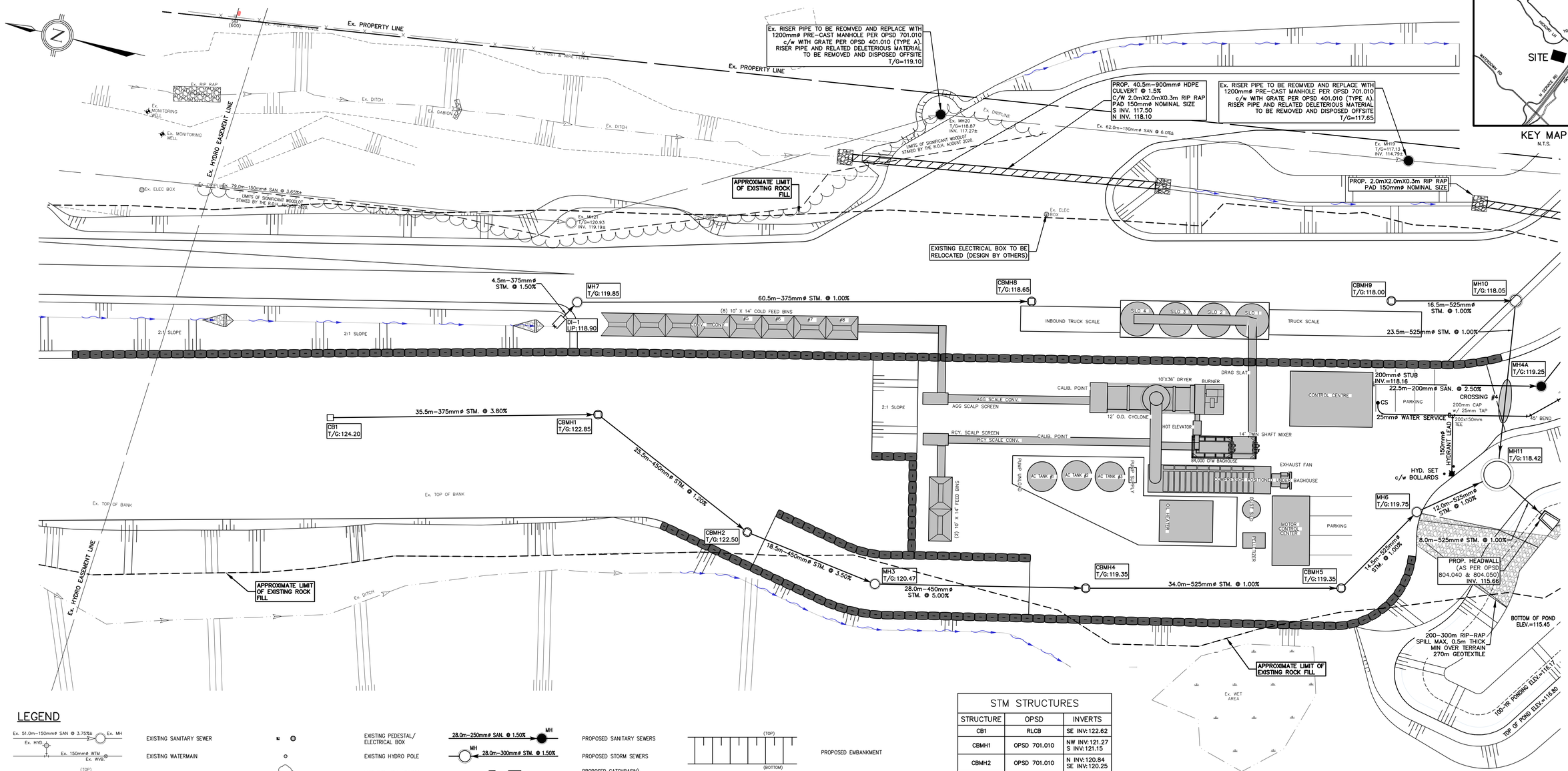
CLIENT
KING PAVING AND CONSTRUCTION COMPANY
3385 HARVESTER ROAD, BURLINGTON ONTARIO

PROJECT NAME
291 NORTH SERVICE ROAD
ASPHALT PLANT
BURLINGTON, ONTARIO
SITE PLAN No.: T.B.D.

TITLE
SITE GRADING PLAN
SHEET 4 of 4

PROJECT No. 20036
DRAWING No. C–106
SCALE 1:250 (0 5 10 15 20 25)

S:\20036\WORKING_Current\20036–Site Servicing and Grading.dwg
Plotted: August 10, 2023 10:46:58 AM By: Alyssa Stiletto



LEGEND

- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING EMBANKMENT
- EXISTING POST & WIRE FENCE
- EXISTING CHAIN LINK FENCE
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- EXISTING OVERHEAD HYDRO/UTILITY LINES
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- EXISTING HYDRO POLE
- EXISTING TREE/SHRUB
- EXISTING CULVERT
- EXISTING DRIPLINE/ CANOPY LIMITS
- LIMITS OF SIGNIFICANT WOODLOT
- WETLAND LIMITS
- EXISTING RIP RAP, SIZE AS NOTED
- EXISTING WET AREAS
- PROPOSED SANITARY SEWERS
- PROPOSED STORM SEWERS
- PROPOSED CATCHBASIN\ DITCH INLET
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED HEADWALL PER OPSD 804.030 c/w GRATE PER OPSD 804.050
- PROPOSED WATERMAIN
- PROPOSED WATER VALVE/ CURB STOP
- PROPOSED HYDRANT COMPLETE WITH BOLLARDS
- PROPOSED HDPE CULVERT, SIZE AS NOTED
- PROPOSED EMBANKMENT
- PROPOSED SWALE/CHANNEL
- PROPOSED RETAINING WALL, TO BE DESIGNED BY OTHERS
- PROPOSED GATE
- PROPOSED ROCK CHECK DAM PER OPSD 219.210
- PROPOSED CONCRETE PAD
- PROPOSED RIP RAP, SIZE AS NOTED

STM STRUCTURES

STRUCTURE	OPSD	INVERTS
CB1	RLCB	SE INV: 122.62
CBMH1	OPSD 701.010	NW INV: 121.27 S INV: 121.15
CBMH2	OPSD 701.010	N INV: 120.84 SE INV: 120.25
CBMH5	OPSD 701.010	NW INV: 117.21 E INV: 117.16
CBMH8	OPSD 701.010	NW INV: 117.00
CBMH9	OPSD 701.010	SE INV: 116.25
DI–1	DICB–1200X600	E INV: 118.15
MH3	OPSD 701.010	NW INV:119.61 SE INV:119.05
MH6	OPSD 701.010	W INV:117.02 E INV: 116.99
MH7	OPSD 701.010	W INV:118.08 SE INV:117.60
MH10	OPSD 701.011	NW INV:116.08 SW INV:116.03
MH11	HYDROSTORM HS8	NE INV:115.80 W INV:116.87 S INV:115.74

NOTES TO CONTRACTOR:

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REGIONAL APPROVAL:
REGION DESIGN OF WATER &/OR WASTWATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANARDS & SPECIFICATIONS & LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED: _____ DATED: _____
INFRASTRUCTURE PLANNING & POLICY

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DESIGN	RB	CHK'D		DATE
DRAWN	RB	CHK'D		May 27, 2021

BENCH MARK NOTE:
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CLIENT
KING PAVING AND CONSTRUCTION COMPANY
3385 HARVESTER ROAD, BURLINGTON ONTARIO

PROJECT NAME
291 NORTH SERVICE ROAD
ASPHALT PLANT
BURLINGTON, ONTARIO
SITE PLAN No.: T.B.D.

TITLE
SITE SERVICING PLAN
SHEET 1 of 2

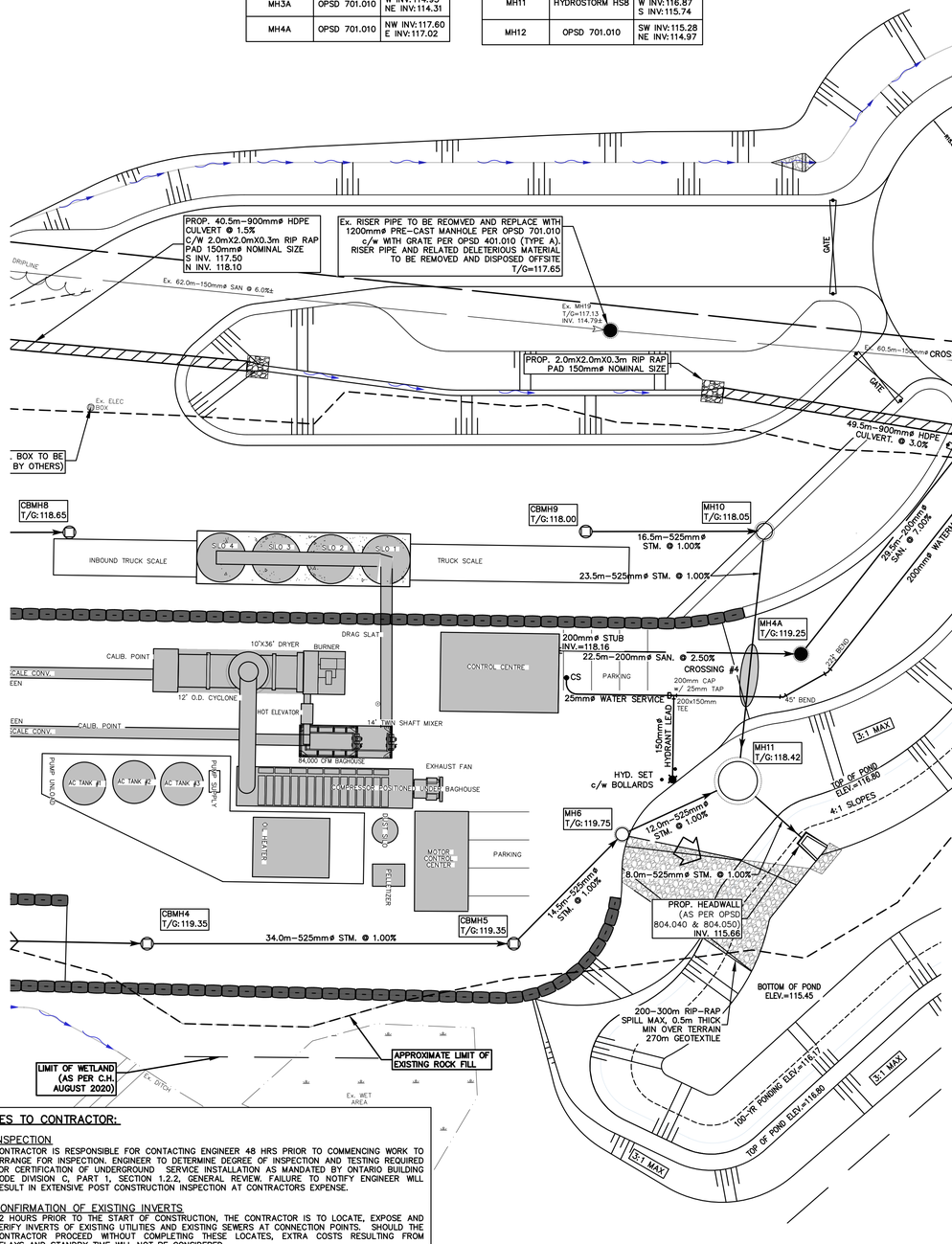
PROJECT No. 20036
DRAWING No. C–107
SCALE 1:250 (0, 5, 10, 15, 20, 25)

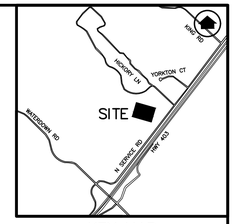
S:\20036\WORKING_Current\20036-Site Servicing and Grading.dwg
Plotted: August 10, 2023 10:47:09 AM By: Alyssa Stiletto

SAN STRUCTURES		
STRUCTURE	OPSD	INVERTS
MH1A	OPSD 701.010	NW INV:113.64 SW INV:113.54
MH2A	OPSD 701.010	SW INV:114.16 SE INV:114.01
MH3A	OPSD 701.010	W INV:114.95 NE INV:114.31
MH4A	OPSD 701.010	NW INV:117.60 E INV:117.02

STM STRUCTURES		
STRUCTURE	OPSD	INVERTS
DI-2	DICB-1200X600	NE INV:115.35
MH10	OPSD 701.011	NW INV:116.08 SW INV:116.03
MH11	HYDROSTORM HS8	NE INV:115.80 W INV:116.87 S INV:115.74
MH12	OPSD 701.010	SW INV:115.28 NE INV:114.97







CROSSING TABLE					
CROSSING	UPPER PIPE		LOWER PIPE		CLEARANCE
#1	WTM:	OBV. = 115.10± INV. = 114.90±	SAN:	OBV. = 114.19 INV. = 113.99	0.71m±
#2	WTM:	OBV. = 115.20± INV. = 115.00±	Ex. SAN:	OBV. = 113.63 INV. = 113.48	1.37m±
	SAN:	OBV. = 114.47 INV. = 114.27			0.84m
#3	CULVERT:	OBV. = 116.67 INV. = 115.77	WTM:	OBV. = 115.25 INV. = 115.05	0.52m
			SAN:	OBV. = 115.29 INV. = 115.09	0.48m
#4	WTM:	OBV. = 117.20± INV. = 117.00± (WTM LOWERING REQ.)	STM:	OBV. = 116.46 INV. = 115.93	0.54m±
	SAN:	OBV. = 117.91 INV. = 117.71			1.25m
#5	CULVERT:	OBV. = 114.98 INV. = 114.46	WTM:	OBV. = 113.50± INV. = 113.30±	0.96m±
			SAN:	OBV. = 113.86 INV. = 113.66	0.60m

LEGEND

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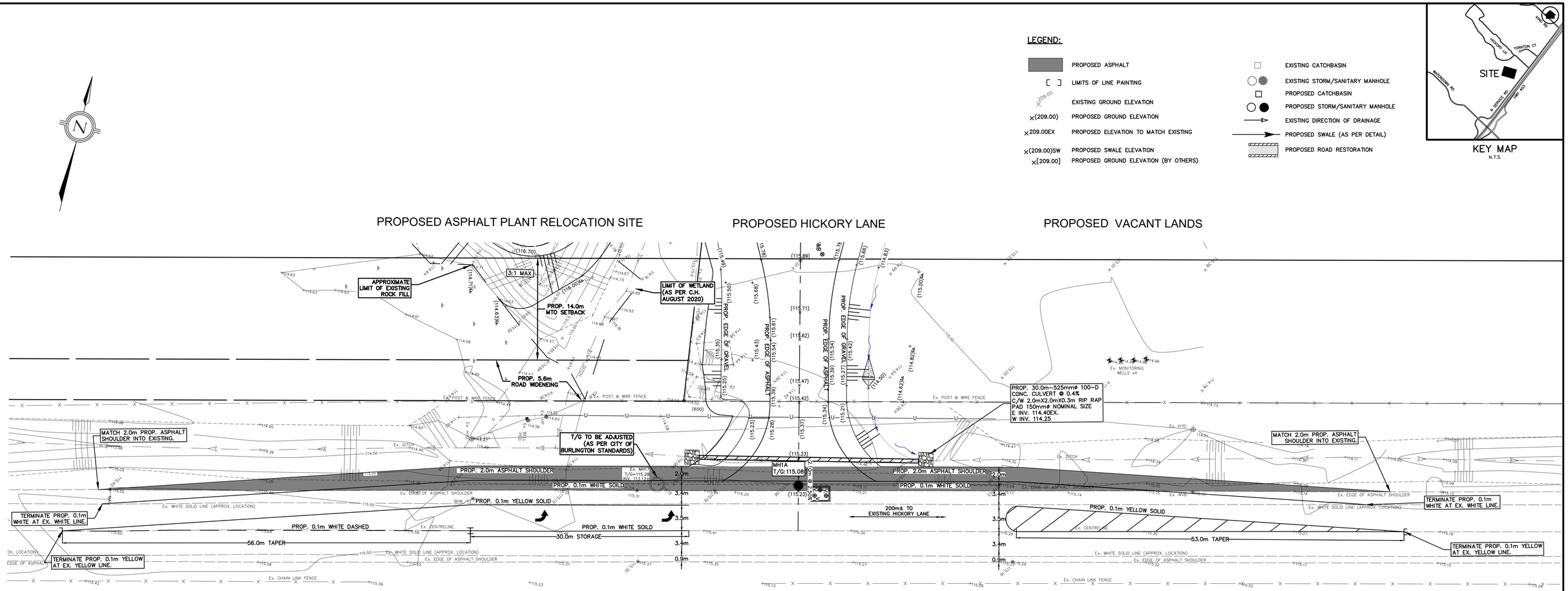
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PROJECT NAME
291 NORTH SERVICE ROAD
ASPHALT PLANT
BURLINGTON, ONTARIO
SITE PLAN No.: T.B.D.

TITLE
SITE SERVICING PLAN
SHEET 2 of 2

PROJECT No. 20036
DRAWING No. C–108
SCALE 1:250 (0 5 10 15 20 25)

S:\20036\WORKING_Current\20036–Site Servicing and Grading.dwg
Plotted: August 10, 2023 10:47:21 AM By: Alyssa Stiletto



NORTH SERVICE ROAD

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PROJECT NAME
291 NORTH SERVICE ROAD
ASPHALT PLANT
BURLINGTON, ONTARIO
SITE PLAN No.: T.B.D.

TITLE
PRELIMINARY ROAD WIDENING PLAN

PROJECT No. 20036
DRAWING No. C-109
SCALE 1:250 (0 5 10 15 20 25)

S:\20036\WORKING_Current\20036-Site Servicing and Grading.dwg
Plotted: August 10, 2023 10:47:26 AM By: Alyssa Stiletto