2020-030 - 32 OAK STREET, COLLINGWOOD - 32 OAK STREET INC.

32 OAK STREET INC.

32 OAK STREET, TOWN OF COLLINGWOOD

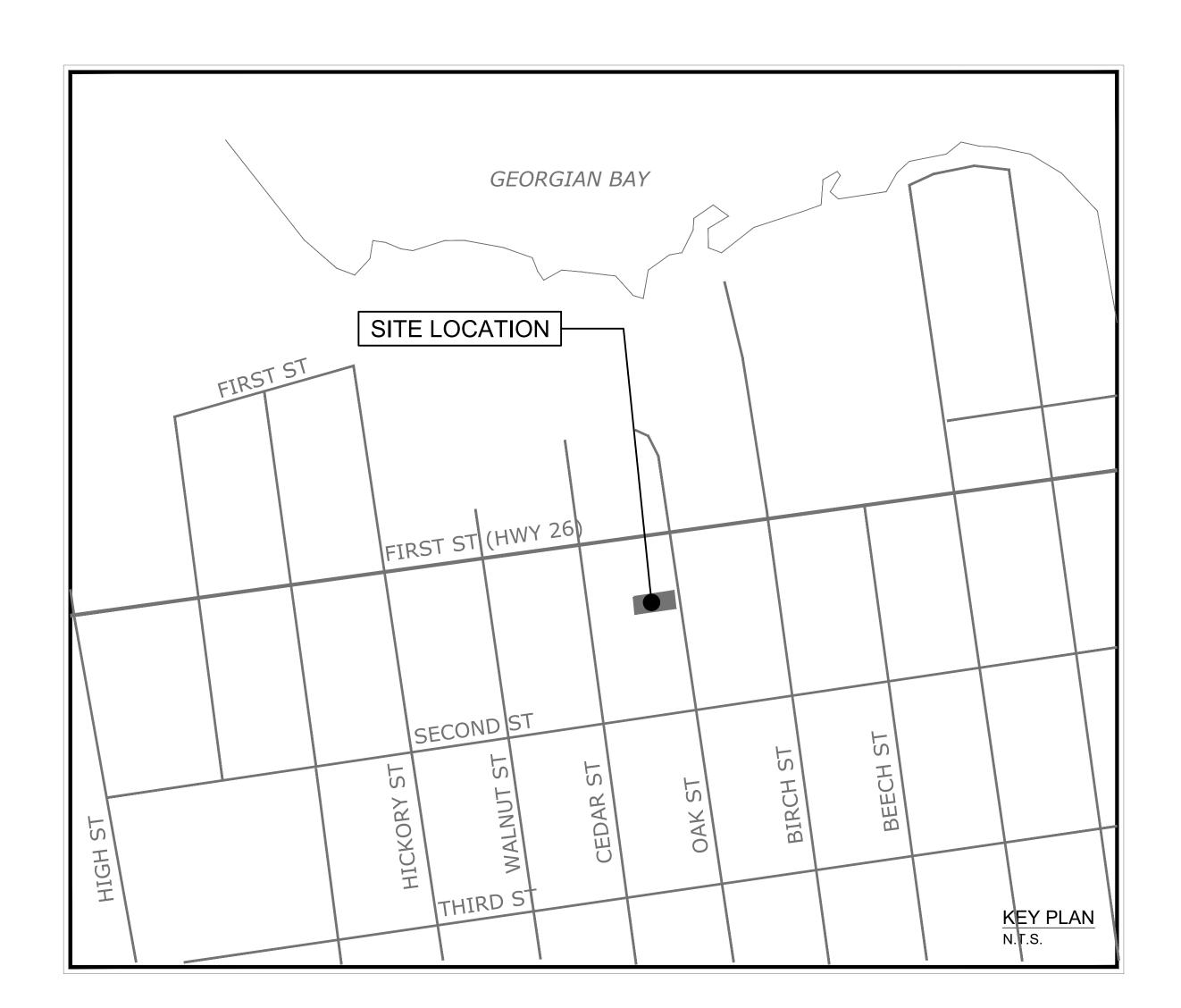
DRAWING INDEX

C1 EXISTING CONDITION PLAN

GRADING AND SERVICING PLAN

C3 EROSION AND SEDIMENT CONTROL PLANC4 POST DEVELOPMENT DRAINAGE PLAN

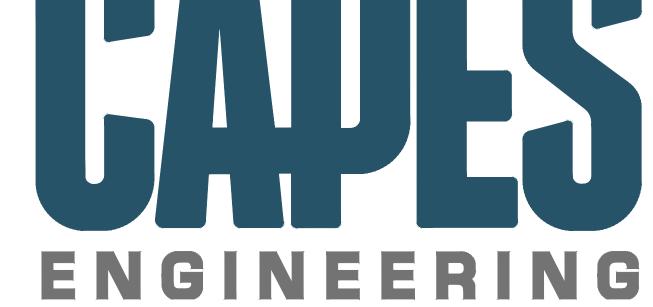
C5 STANDARD DETAILS

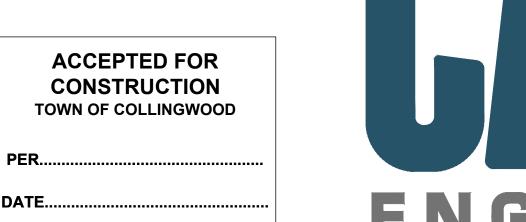


32 OAK STREET INC. 32 OAK STREET COLLINGWOOD, ON L9Y 2X6

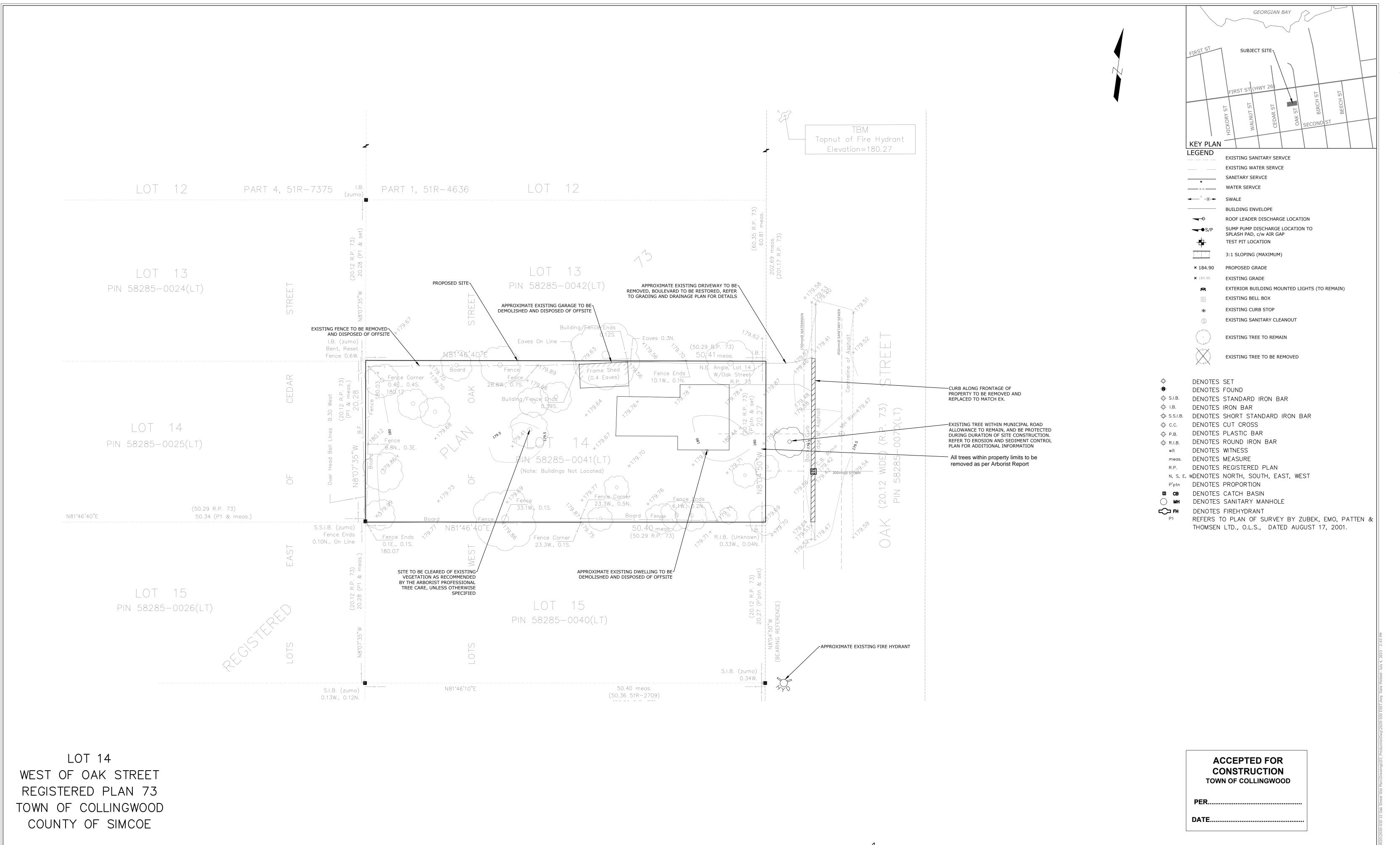
Project No. 2020-030

REISSUED FOR APPROVALS - 23/07/05









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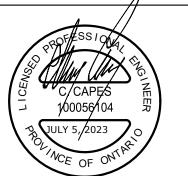
3. This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.

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1	ISSUED FOR APPROVALS	20/11/13
2	REISSUED FOR APPROVALS	22/08/24
3	REISSUED FOR APPROVALS	23/03/13
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BENCH MARK

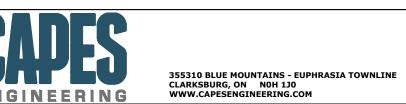
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Client
32 OAK STREET INC.
32 OAK STREET
COLLINGWOOD, ON
L9Y 2X6

32 OAK STREET, TOWN OF COLLINGWOOD EXISTING CONDITION PLAN



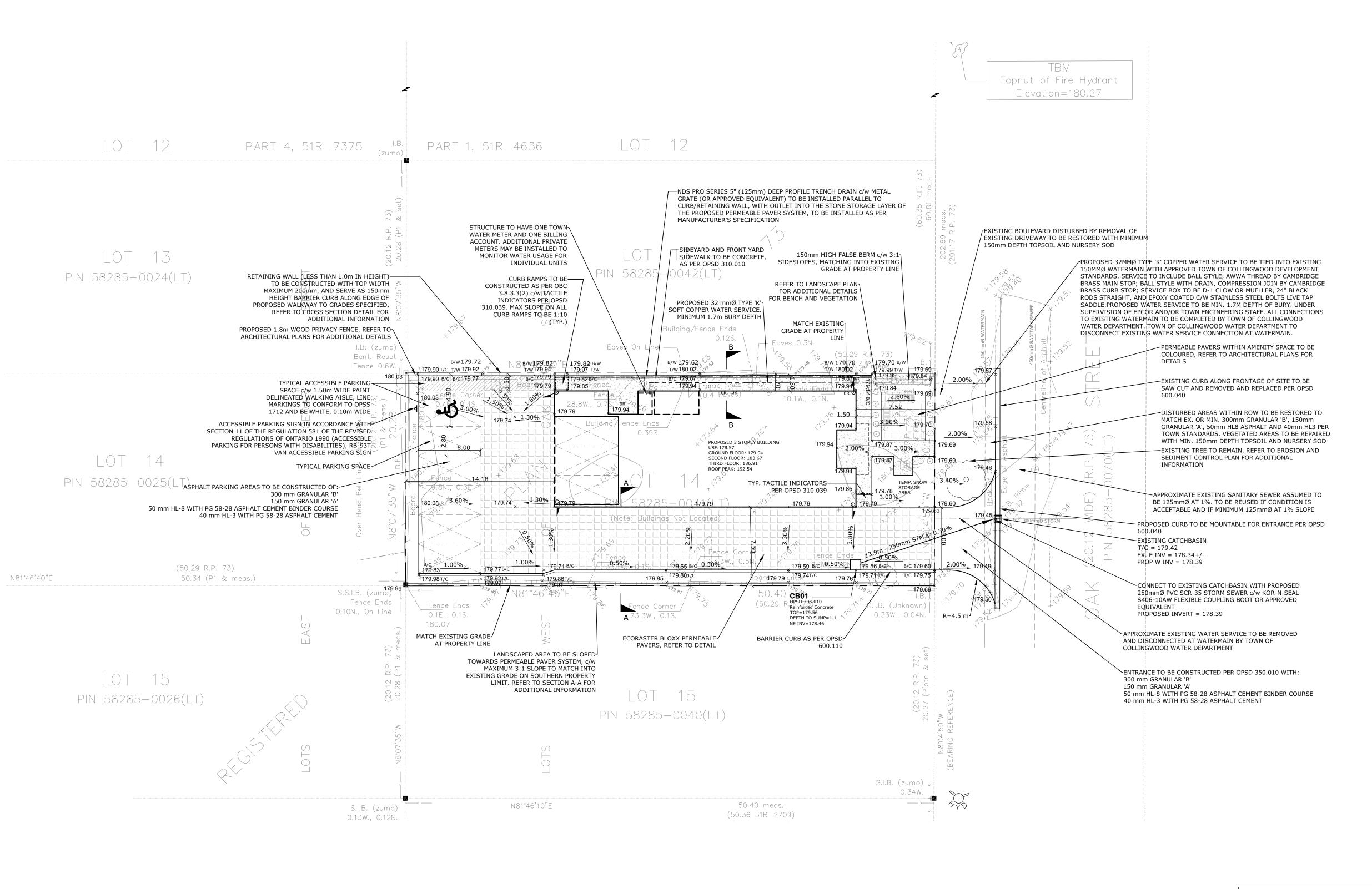
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K. GRIFFIN C. CAPES 2

Project No. R
2020-030

Date 20/10/29

Rev No. 4

12.0m



LOT 14 WEST OF OAK STREET REGISTERED PLAN 73 TOWN OF COLLINGWOOD COUNTY OF SIMCOE

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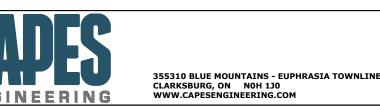
32 OAK STREET INC. 32 OAK STREET COLLINGWOOD, ON

ACCEPTED FOR

CONSTRUCTION

TOWN OF COLLINGWOOD

GRADING AND SERVICING PLAN



K. GRIFFIN C. CAPES

20/10/29 2020-030

32 OAK STREET, TOWN OF COLLINGWOOD

SUBJECT SITE

EXISTING SANITARY SERVCE EXISTING WATER SERVCE

KEY PLAN

_____ SANITARY SERVCE

→ × → SWALE

× 184.90

DENOTES SET

DENOTES FOUND

DENOTES IRON BAR

DENOTES CUT CROSS

DENOTES PLASTIC BAR

⊕ R.I.B. DENOTES ROUND IRON BAR DENOTES WITNESS

DENOTES MEASURE

P'ptn DENOTES PROPORTION

NOTES

EQUIVALENT.

DENOTES STANDARD IRON BAR

中 S.S.I.B. DENOTES SHORT STANDARD IRON BAR

DENOTES REGISTERED PLAN

DENOTES CATCH BASIN

MH DENOTES SANITARY MANHOLE

DENOTES FIREHYDRANT

N, S, E, WDENOTES NORTH, SOUTH, EAST, WEST

REFERS TO PLAN OF SURVEY BY ZUBEK, EMO, PATTEN &

THOMSEN LTD., O.L.S., DATED AUGUST 17, 2001.

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SYSTEM. THE OWNER/BUILDER/APPLICANT SHALL COMPLY WITH ALL DIRECTIVES

6. INTERIM GRADING MEASURES MAY BE REQUIRED DURING BUILDING CONSTRUCTION TO ENSURE THAT DRAINAGE DOES NOT ADVERSELY AFFECT THE NEIGHBORING PROPERTIES. ROUGH GRADING OF THE PROPERTY SHALL BE COMPLETED SUCH THAT

BEDDED IN A 300mmx300mm CLEAR STONE TRENCH WRAPPED WITH FILTER CLOTH.

8. EXISTING VEGETATION ON SITE TO BE REMOVED AND DISPOSED OF OFF SITE BEFORE

10. FOOTINGS WITHIN GROUNDWATER SHALL BE A FACTOR OF STANDARD WIDTH AS PER

DRAINAGE IS CONTAINED ON SITE OR CONTROLLED TO A POSITIVE OUTLET.

2. ALL DOWNSPOUTS, SUMP PUMP AND OTHER DRAINAGE DISCHARGE POINTS SHALL DISCHARGE ON TO A SPLASH PAD OR APPROVED

IMPLEMENTED TO PREVENT MIGRATION OF SILT AND SEDIMENT

ENSURE THAT SILT AND SEDIMENT LADEN SURFACE WATER DOES

AREAS, EITHER OVERLAND OR THROUGH THE STORM DRAINAGE

5. THE OWNER/BUILDER/APPLICANT IS RESPONSIBLE FOR OBTAINING UTILITY AND SERVICING LOCATES PRIOR TO ANY WORKS.

7. ALL SWALES SHALL HAVE A MINIMUM DEPTH OF 150mm; 150mm

WITH GRADIENTS LESS THAN 1.0%, SUBDRAINS SHALL BE PERFORATED, CORRUGATED PIPE WITH GEOTEXTILE AND BE

9. ALL DISTURBED AREAS ARE TO BE SODDED OVER A MINIMUM OF

150MM OF TOPSOIL OR APPROVED ALTERNATIVE GROUND COVER.

LOT GRADING WORK AS SPECIFIED.

O.B.C. SECTION 9.15.3.4.

DIAMETER SUBDRAINS SHALL BE PROVIDED UNDER ALL SWALES

NOT ENTER ANY WATERCOURSES OR ENVIRONMENTALLY SENSITIVE

FROM THE SUBJECT LOT TO ANY ADJACENT LOT, INCLUDING MUNICIPAL RIGHT-OF-WAY. SPECIAL CARE SHALL BE TAKEN TO

4. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE

ISSUED BY ANY OF THE ENVIRONMENTAL AGENCIES.

WATER SERVCE

BUILDING ENVELOPE

TEST PIT LOCATION

PROPOSED GRADE

EXISTING GRADE

EXISTING BELL BOX

EXISTING CURB STOP

PERMEABLE PAVERS

EXISTING SANITARY CLEANOUT

EXISTING TREE TO BE REMOVED

EXISTING TREE TO REMAIN

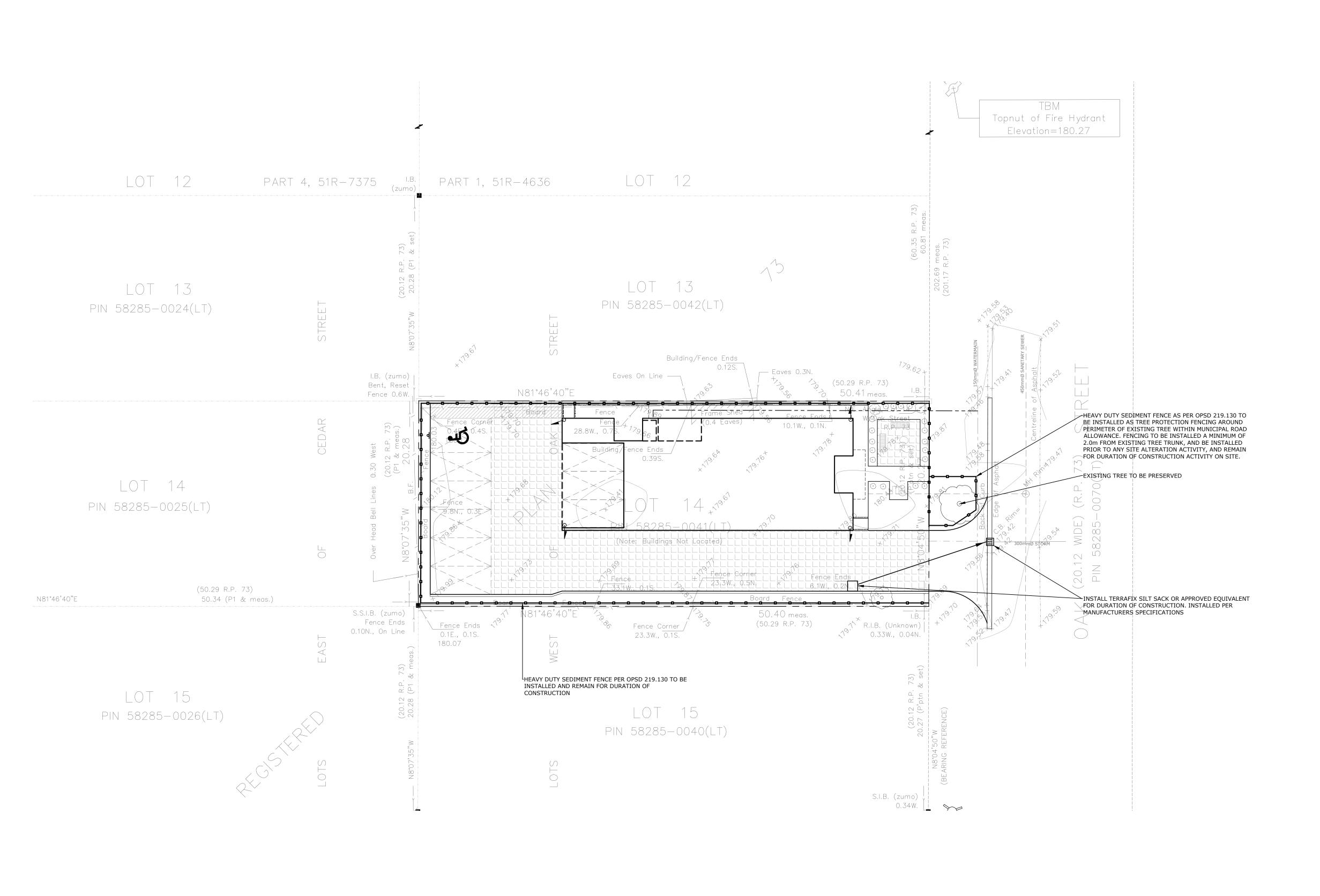
SPLASH PAD, c/w AIR GAP

3:1 SLOPING (MAXIMUM)

ROOF LEADER DISCHARGE LOCATION

SUMP PUMP DISCHARGE LOCATION TO

EXTERIOR BUILDING MOUNTED LIGHTS (TO REMAIN)



LOT 14 WEST OF OAK STREET REGISTERED PLAN 73 TOWN OF COLLINGWOOD COUNTY OF SIMCOE

ACCEPTED FOR CONSTRUCTION TOWN OF COLLINGWOOD

9. ALL DISTURBED AREAS ARE TO BE SODDED OVER A MINIMUM OF 150MM OF TOPSOIL OR APPROVED ALTERNATIVE GROUND COVER. O.B.C. SECTION 9.15.3.4.

KEY PLAN

_____ SANITARY SERVCE

→ × → SWALE

DENOTES SET

DENOTES FOUND

DENOTES IRON BAR

DENOTES CUT CROSS DENOTES PLASTIC BAR DENOTES ROUND IRON BAR

DENOTES WITNESS

R.P. DENOTES REGISTERED PLAN

O MH DENOTES SANITARY MANHOLE

DENOTES FIREHYDRANT

meas. DENOTES MEASURE

P'ptn DENOTES PROPORTION

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N, S, E, WDENOTES NORTH, SOUTH, EAST, WEST

WATER SERVCE

BUILDING ENVELOPE

SPLASH PAD, c/w AIR GAP TEST PIT LOCATION

3:1 SLOPING (MAXIMUM)

PROPOSED GRADE

EXISTING GRADE

EXISTING BELL BOX

EXISTING CURB STOP

EXISTING SANITARY CLEANOUT

EXISTING TREE TO BE REMOVED

HEAVY DUTY SEDIMENT FENCE PER OPSD 219.130

REFERS TO PLAN OF SURVEY BY ZUBEK, EMO, PATTEN &

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DIAMETER SUBDRAINS SHALL BE PROVIDED UNDER ALL SWALES

4. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE

ISSUED BY ANY OF THE ENVIRONMENTAL AGENCIES.

EXISTING TREE TO REMAIN

ROOF LEADER DISCHARGE LOCATION SUMP PUMP DISCHARGE LOCATION TO

EXISTING SANITARY SERVCE EXISTING WATER SERVCE

BEDDED IN A 300mmx300mm CLEAR STONE TRENCH WRAPPED WITH FILTER CLOTH.

8. EXISTING VEGETATION ON SITE TO BE REMOVED AND DISPOSED OF OFF SITE BEFORE

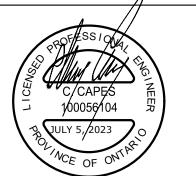
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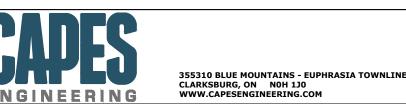
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32 OAK STREET INC. 32 OAK STREET COLLINGWOOD, ON

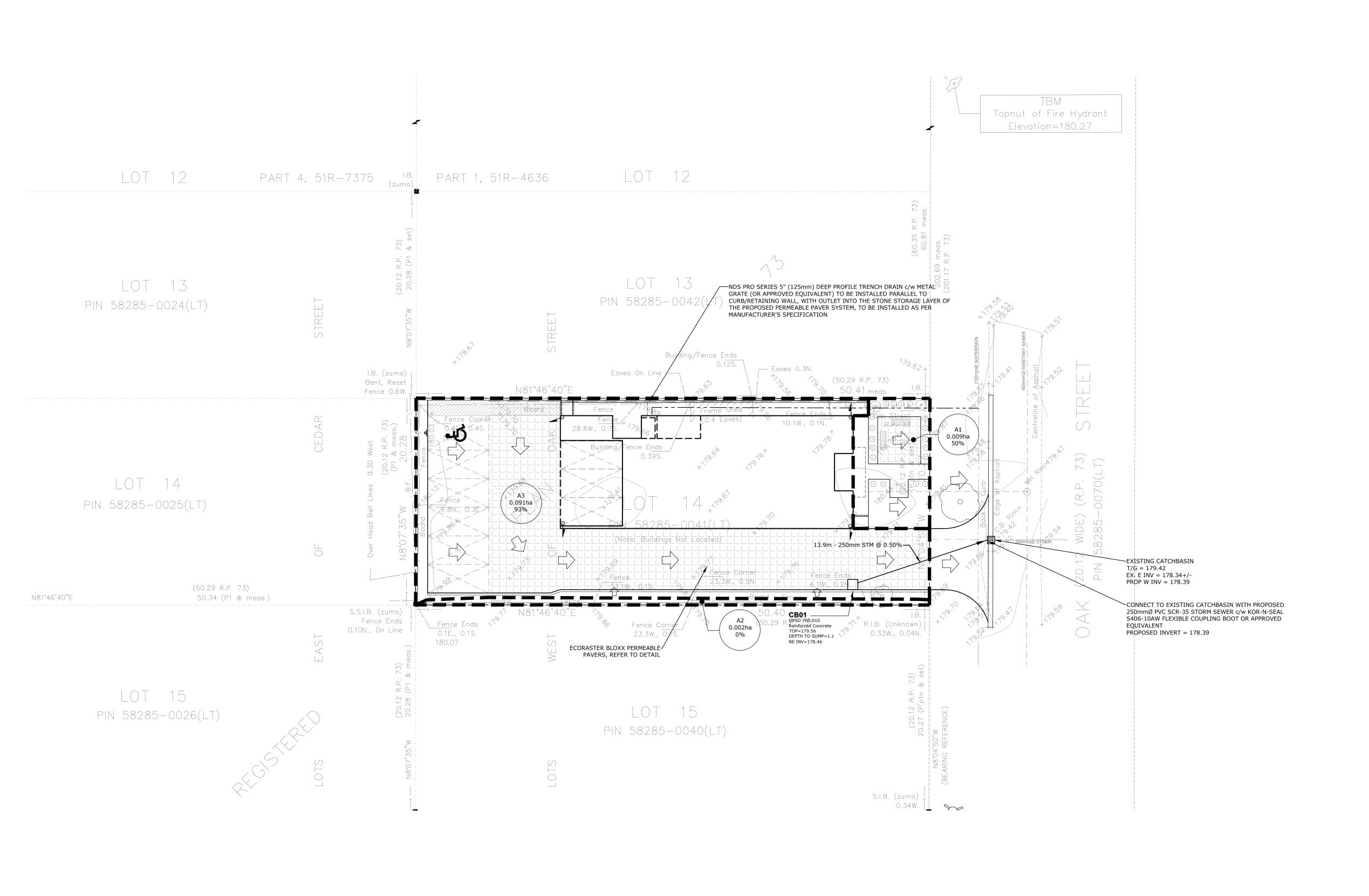
EROSION AND SEDIMENT CONTROL PLAN

32 OAK STREET, TOWN OF COLLINGWOOD



K. GRIFFIN C. CAPES 2020-030

20/10/29



LOT 14 WEST OF OAK STREET REGISTERED PLAN 73 TOWN OF COLLINGWOOD COUNTY OF SIMCOE

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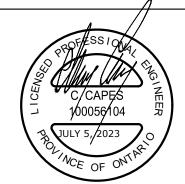
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32 OAK STREET INC. 32 OAK STREET COLLINGWOOD, ON

ACCEPTED FOR

CONSTRUCTION

TOWN OF COLLINGWOOD

POST DEVELOPMENT DRAINAGE PLAN

KEY PLAN

BORDER 0.006ha 0%

DENOTES SET

ф Р.В. DENOTES PLASTIC BAR

meas. DENOTES MEASURE

P'ptn DENOTES PROPORTION

CB DENOTES CATCH BASIN

DENOTES FIREHYDRANT

ON TO A SPLASH PAD OR APPROVED EQUIVALENT.

ENVIRONMENTALLY SENSITIVE

ENVIRONMENTAL AGENCIES.

LOCATES PRIOR TO ANY WORKS.

GRADING WORK AS SPECIFIED.

SITE OR CONTROLLED TO A POSITIVE OUTLET.

CLEAR STONE TRENCH WRAPPED WITH FILTER CLOTH.

DENOTES FOUND

DENOTES IRON BAR

DENOTES CUT CROSS

中 R.I.B. DENOTES ROUND IRON BAR

DENOTES WITNESS

R.P. DENOTES REGISTERED PLAN

O MH DENOTES SANITARY MANHOLE

DENOTES STANDARD IRON BAR

N, S, E, WDENOTES NORTH, SOUTH, EAST, WEST

DENOTES SHORT STANDARD IRON BAR

EXISTING SANITARY SERVCE EXISTING WATER SERVCE

SANITARY SERVCE

BUILDING ENVELOPE

SPLASH PAD, c/w AIR GAP TEST PIT LOCATION

3:1 SLOPING (MAXIMUM)

EXISTING BELL BOX

EXISTING CURB STOP

EXISTING SANITARY CLEANOUT

EXISTING TREE TO BE REMOVED

OVERLAND FLOW DIRECTION

SUBCATCHMENT NAME, AREA (ha) & % IMPERVIOUS

REFERS TO PLAN OF SURVEY BY ZUBEK, EMO, PATTEN &

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EXISTING TREE TO REMAIN

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WATER SERVCE

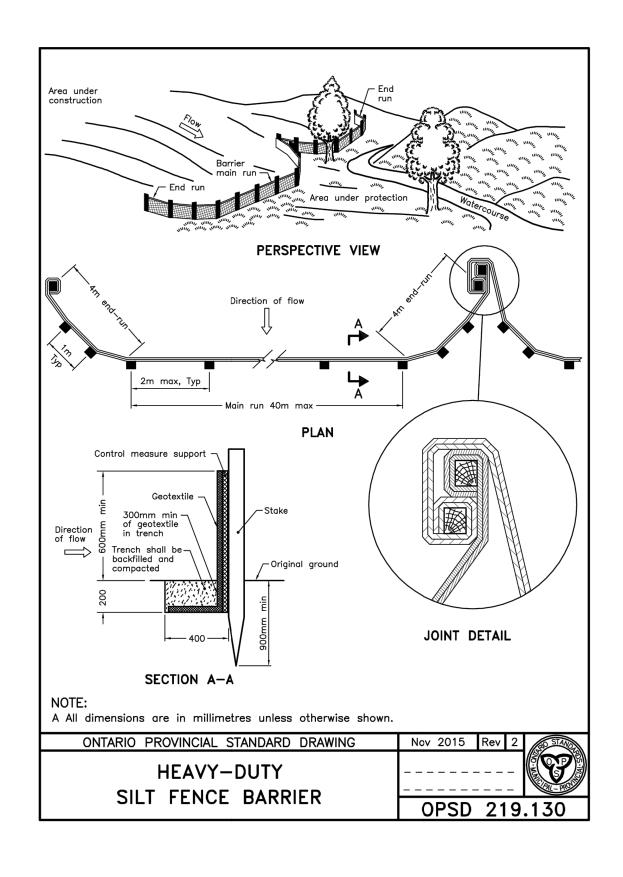


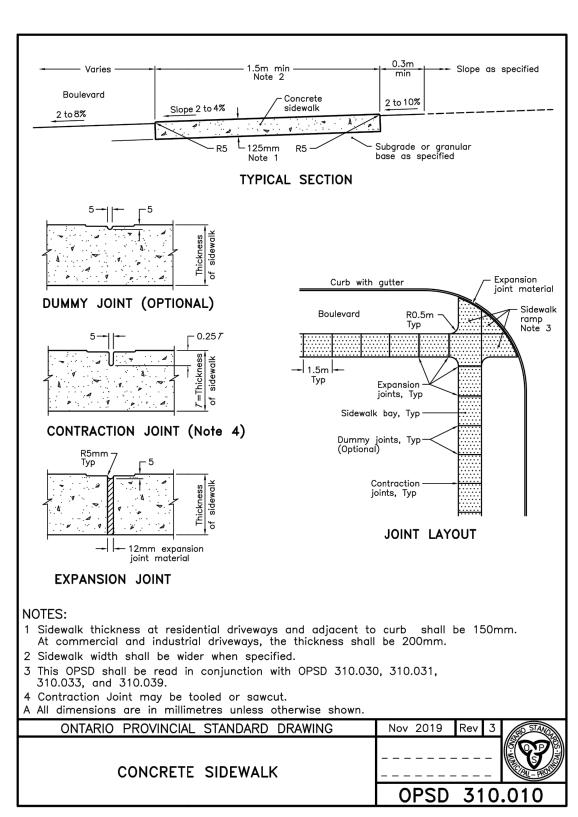
32 OAK STREET, TOWN OF COLLINGWOOD

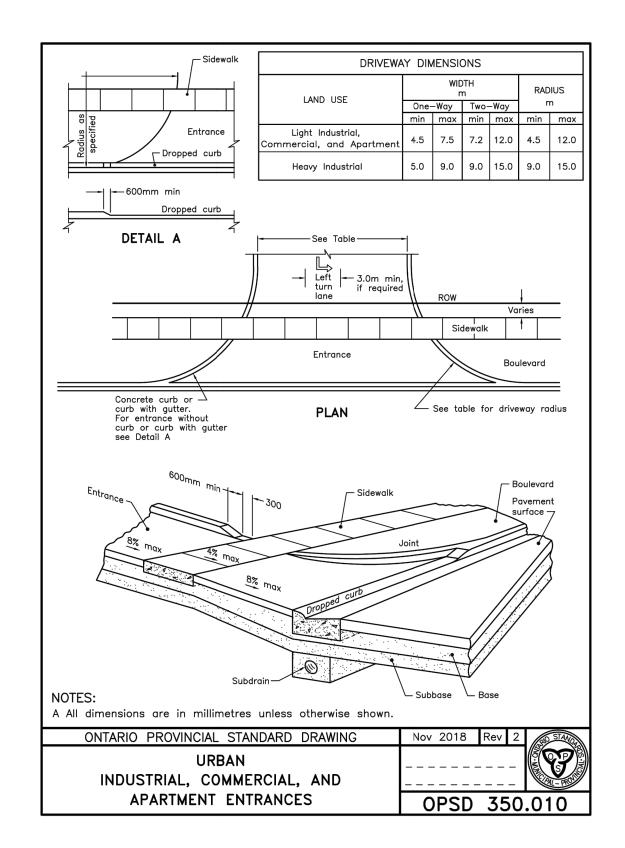


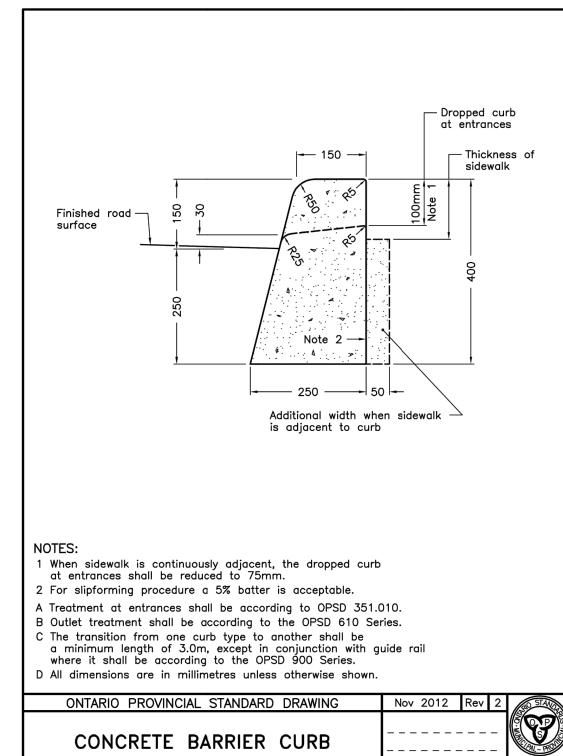
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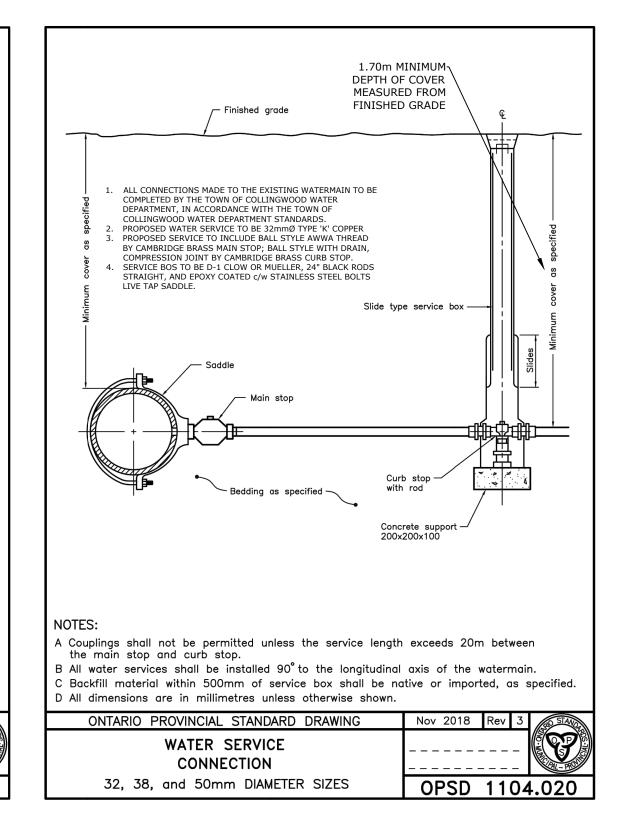
K. GRIFFIN C. CAPES 20/10/29 2020-030

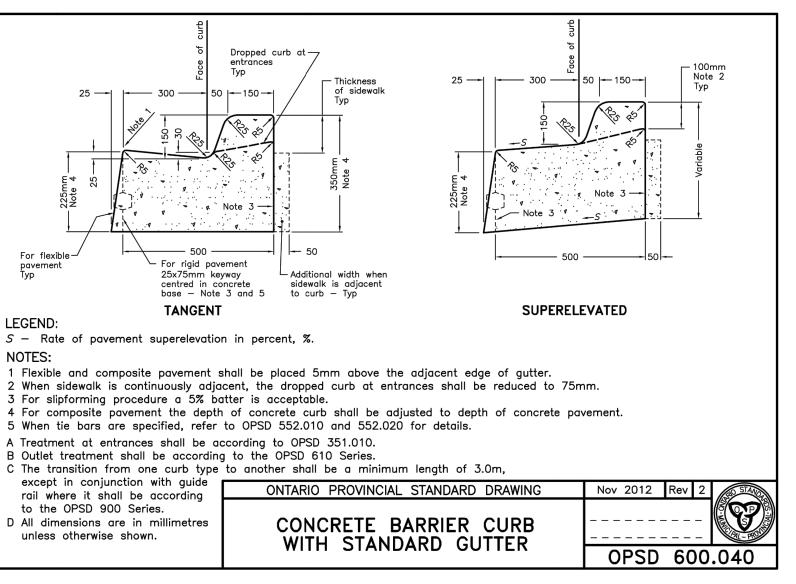


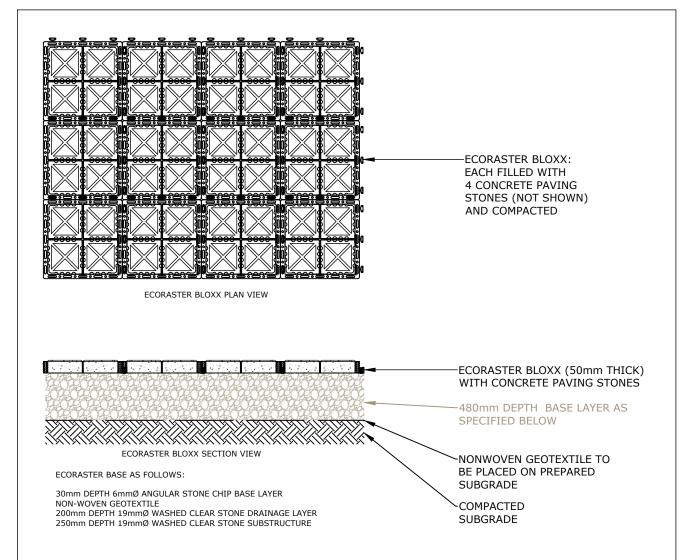


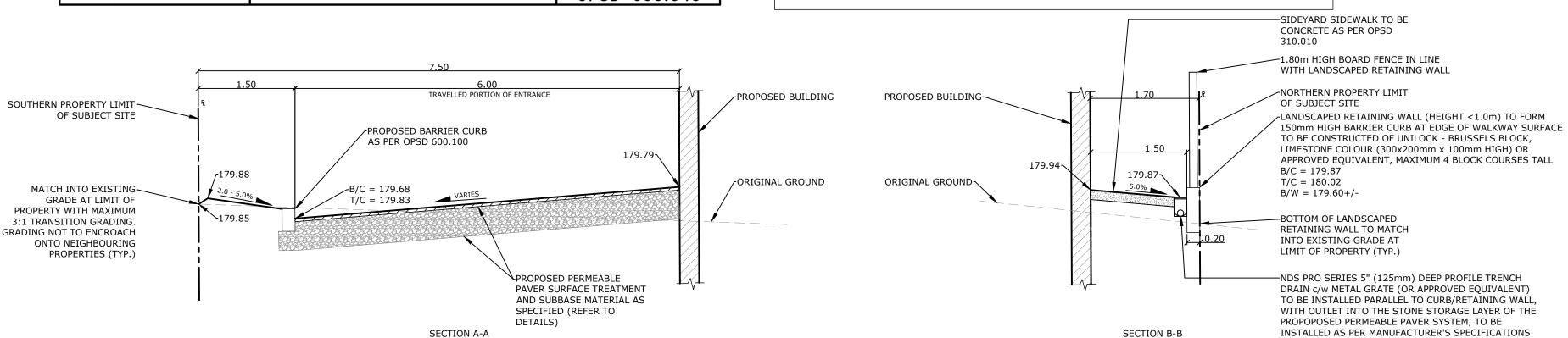












GEOTECHNICAL NOTES:

1. The topsoil and weathered native soils encountered in the test pits are not suitable for conventional strip and spread footing foundations. Proposed strip and spread footing foundations must extend to and be founded on the native soil deposits with compact relative density or directly to the bedrock. Proposed strip and spread footing foundations may be designed as follows: • On soil (the sand or glacial till deposit) using a maximum geotechnical reaction at SLS of 75 kPa for a maximum of 25 mm of settlement. The factored geotechnical resistance at ULS is 115 kPa.

OPSD 600.110

• On bedrock using a maximum geotechnical reaction at SLS of 200 kPa (no appreciable settlement will occur). The factored geotechnical resistance at ULS is 300 kPa.

2. It is recommended that footings either be set uniformly on soil or uniformly on bedrock. Where foundations straddle both soil and bedrock, the strain incompatibility (i.e. bedrock does not settle whereas soil has some settlement) can increase the risk for foundation wall cracking. The minimum strip footing widths to be used shall be dictated as per the Ontario Building Code, regardless of loading considerations. Footings stepped from one level to another must be at a slope not exceeding 7 vertical to 10 horizontal. Foundations exposed to ambient air temperature throughout the year must be provided with a minimum of 1.4 metres of earth cover for frost protection.

3. Prior to pouring concrete for the footings, the footing subgrade must be cleaned of deleterious materials, softened, disturbed, or caved materials, and any standing water. During the excavation and construction of the footings CEE should be retained to inspect the founding base to ensure the subgrade has been properly prepared and that the integrity of the founding soil has been maintained. Soils tend to weather and deteriorate on exposure to the atmosphere or to surface water, therefore foundation bases that will remain open and exposed to the atmosphere for an extended period shall be protected by applying a skim coat of lean concrete. If construction is to proceed in freezing conditions, temporary frost protection for the footing bases and concrete must be provided. Construction traffic should be prohibited from travelling over the exposed

subgrade. 4. A lightly loaded unreinforced concrete slab can be constructed at this site provided the subgrade is stripped of all topsoil and does not contain any significantly weathered or soft soils, or soils that contain a high percentage of organics. The backfill to raise the sub-excavation back to underside of concrete slab should be placed in maximum 200 mm thick loose lifts and compacted to a minimum of 95% Standard Proctor Maximum Dry Density. To achieve adequate compaction, backfill material should be placed within ±2% of optimum moisture content. In addition, it is recommended that the soil used to bring the soil up to the base of the slab should consist of Select Subgrade Material if possible (cohesionless silty sand to gravelly sand type soil). It is necessary that the floor slabs be provided with a capillary moisture barrier and drainage layer. This is made by placing the slab on a minimum 200 mm layer of clear stone compacted by vibration to a dense state. The upper 50 mm of clear stone can be replaced with 19 mm crusher run limestone for a working surface.

Perimeter and under-slab drainage at the foundation level is not required, provided that the underside of concrete slab is at least 200 mm above the prevailing grade of the site and the surrounding surfaces slope away from the building at a gradient of at least 2% to promote surface water run-off and to reduce groundwater infiltration adjacent to foundations. To minimize infiltration of surface water onto the foundation wall, the upper 150 mm of backfill could comprise compacted relatively impervious soil material.

5. A review of the test pit data in the proposed driveway and parking areas indicates that the pavement subgrade will consist of a native sand with a generally compact relative density. The subgrade must be exposed by the removal of any vegetation, topsoil, existing pavements structures or disturbed soil. The pavement subgrade should be proof-rolled and inspected by the geotechnical engineer. Any loose, soft, wet or unstable areas must be sub-excavated and backfilled with clean, approved and compacted earth fill and compacted to a minimum of 95% SPMDD.

6. The industry pavement design methods are based on a design life of 15 to 20 years for typical weather conditions depending on actual traffic volumes. The following pavement thickness design is provided on the above noted considerations and subgrade basis for an asphaltic concrete pavement structure:

Surface Course Asphaltic Concrete: Minimum 40 mm thick HL-3 (OPSS 1150) with PG 58-28 Asphalt Cement (OPSS.MUNI 1101) Compacted per OPSS 310

Binder Course Asphaltic Concrete:

Minimum 50 mm thick HL-8 (OPSS 1150) with PG 58-28 Asphalt Cement (OPSS.MUNI 1101) Compacted per OPSS 310 Base Course:

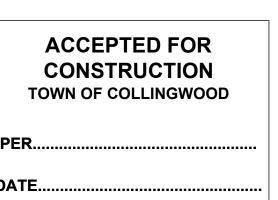
Minimum 150 mm Granular A (OPSS.MUNI 1010) 100% Standard Proctor Maximum Dry Density (ASTM-D698)

Subbase Course: Minimum 300 mm Granular B (OPSS.MUNI 1010) Compacted to 100% Standard Proctor Maximum Dry Density (ASTM-D698)

7. The granular materials must be compacted to a minimum of 100% SPMDD. Asphalt materials should be rolled and compacted as per OPSS 310. The granular and asphalt pavement materials and their placement should conform to OPSS 310, 501, 1010 and 1150.

8. If the pavement construction occurs in wet, winter or inclement weather, it may be necessary to provide additional subgrade support for heavy construction traffic by increasing the thickness of the granular subbase, base or both. Further, traffic areas for construction equipment may experience unstable subgrade conditions. These areas may be stabilized utilizing additional thickness of granular materials.

9. It should be noted that in addition to adherence of the above pavement design recommendations, a close control on the pavement construction process will also be required in order to obtain the desired pavement life. Therefore, it is recommended that regular inspection and testing should be conducted during the pavement construction to confirm material quality, thickness, and to ensure adequate compaction.



ш	Notes
	1. This drawing is the exclusive property of CAPES Engineering Ltd. The reproduction of
	any part without express written consent of this Corporation is strictly prohibited.
	2. The contractor shall verify all dimensions, levels, and datums on site and report any
ш	discrepancies or omissions to CAPES Engineering Ltd. prior to construction

This drawing is to be read and understood in conjunction with all other p documents applicable to this project.	olans and

	No	Revision	Date
İ	1	ISSUED FOR APPROVALS	20/11/13
	2	REISSUED FOR APPROVALS	22/08/24
	3	REISSUED FOR APPROVALS	23/03/13
	4	REISSUED FOR APPROVALS	23/07/05

SOUTHERN DRIVE AISLE SECTION

BENCH MARK

ELEVATIONS HEREON ARE GEODETIC AND ARE REFERRED TO THE GEODETIC MONUMENT No. 72U313 HAVING AN ELEVATION OF 179.633 METRES (CGVD 28:78).

LEGAL AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY THE OWNER, PREPARED BY ZUBEK, EMO, PATTEN & THOMSEN LTD. THIS PLAN DOES NOT ATTEMPT TO REPLICATE OR INTERPRET THE PLAN OF SURVEY PREPARED, AND DOES NOT CONSTITUTE A PLAN OF SURVEY

NORTHERN ACCESS AISLE SECTION



32 OAK STREET INC. 32 OAK STREET COLLINGWOOD, ON

32 OAK STREET, TOWN OF COLLINGWOOD STANDARD DETAILS



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