



ST. CLAIR CATHOLIC
DISTRICT SCHOOL BOARD

Lighting the Way ~ Rejoicing in Our Journey

REQUEST FOR TENDER: 652-2020-01

Outdoor Play Space Project

St. Matthew Catholic School

720 Elm Avenue, Sarnia, ON N7T 4H3

Submission Deadline and Location:

Wednesday, April 8, 2020

11:00:00 AM Local Time

Catholic Education Centre

420 Creek Street, Wallaceburg, ON N8A 4C4

ISSUED: Friday, March 13, 2020

Part 1: INTRODUCTION

1.1. **INTRODUCTION**

The St. Clair Catholic District School Board (hereafter referred to as the “SCCDSB” or the “Board”) invites interested parties to submit sealed submissions in response to this Request for Tender (“RFT”) document. The SCCDSB currently operates 25 elementary schools, 2 secondary schools, and an administrative office within the regions of Sarnia-Lambton and Chatham-Kent.

1.2. **PURPOSE**

The purpose of this RFT document is to provide interested parties with sufficient information to enable them to prepare and submit bids for consideration by the SCCDSB for the Scope of Work provided, subject to the terms and conditions described herein.

1.3. **INTERPRETATION AND DEFINITIONS**

The following words are used throughout the bid document and proponents should note these conditions when completing their RFT submission.

“ADDENDUM” means a written instruction and/or clarification issued to the RFT Document. The term addenda is to mean the same as Addendum.

“AGREEMENT” or “CONTRACT” means the final document including, but not limited to, the terms and conditions of this document.

“APPLICABLE LAW” and “APPLICABLE LAWS” means any common law requirement and all applicable and enforceable statutes, regulations, directives, policies, administrative interpretations, orders, by laws, rules, guidelines, approvals and other legal requirements of any government and/or regulatory authority in effect from time to time.

“BID IRREGULARITY” means a deviation between the requirements (terms, conditions, specifications, special instructions) of a bid response for the purposes of this bid; bid irregularities are further classified as major irregularities or minor irregularities. The classification of what is a major irregularity or a minor irregularity shall be the sole discretion of the SCCDSB.

“BID SUBMISSION” or “SUBMISSION” means all of the documentation and information submitted by a Proponent in response to this request.

“CONFLICT OF INTEREST” means any situation or circumstance where, in relation to performance of obligations under the RFT, the Proponent’s other commitments, relationships, or financial interests could result in a real, perceived, or potential unfair advantage to the Proponent.

“CONTRACTOR” means an entity that submits a bid in response to this tender document, as the context may suggest, refers to a potential Contractor.

“INFORMAL” shall mean bid submissions will be eliminated from further evaluation if the submission does not include the required information.

“MUST” shall mean proponents “must” include the required information in the bid submission. Failure to include the required information will deem the submission informal.

“PROPONENT” means an entity that submits a bid in response to this tender document, as the context may suggest, refers to a potential Proponent.

“SHOULD” shall mean proponents “should” include the required information in the bid submission.

“SUBCONTRACTOR” means the subcontractor and/or business who contracts to provide some service or material necessary for the performance of another’s contract.

[End of Part 1]

PART 2: RFT PROCESS, INSTRUCTIONS, TERMS & CONDITIONS

2.1. **RFT SCHEDULE**

For the purposes of this RFT, the Board has established the following timing deadlines for the completion of the RFT process.

Event	Date & Time
Issue Date:	Friday, March 13, 2020
Site Visit:	Thursday, March 19, 2020 at 10:00 AM
Last Day to Submit Questions:	Tuesday, March 31, 2020 at 12:00 PM
Responses to Questions Received:	Wednesday, April 1, 2020
Closing Date and Time:	Wednesday, April 8, 2020 at 11:00:00 AM

2.2. **RFT CONTACT**

Tony Prizio, Supervisor – Procurement
St. Clair Catholic District School Board
420 Creek Street, Wallaceburg, ON
P: (519) 627-6762 x10256
E: tony.prizio@st-clair.net

2.3. **ACCEPTANCE OF TERMS**

The submission of a bid by a Proponent represents that the Proponent has read and completely understands, and accepts all provisions contained within this RFT. Any bid that has alternative terms and conditions to those contained herewith may be considered a counteroffer to the Board’s request and may be rejected.

2.4. **AGREEMENT TO ABIDE BY ESTABLISHED PROCESS**

The following rules must be observed to protect the integrity of the competitive procurement process:

- All communications, including requests for information, must be between only the Representative of the Board and each Bidder who have been authorized and designated for that particular purpose.
- Apart from the communications between and among the designated representatives, there must be no communication between any other Board staff and any other representatives of the Bidder, and no giving of information with respect to the competitive procurement process and the final contract.
- Any attempt on the part of the Bidder, or any of its Employees, Agents, Vendors, or Representatives to contact any person(s) other than the designated SCCDSB representative(s) with respect to the competitive procurement process or any violation of the above requirements will be grounds for disqualification. The Board may, at its discretion, in addition to any other rights or remedies available at law, reject any potential or actual submission submitted by that Bidder.

Bidders accepts and agrees to observe the conditions listed herein, inform their staff thereof, and ensure their compliance by submitting an executed Bid Submission in response to this RFT.

2.5. SCOPE OF WORK

The St. Clair Catholic District School Board (Board) is seeking a Contractor to provide all of the necessary materials, equipment and labour to complete an Outdoor Play Space Project at St. Matthew Catholic School in Sarnia, Ontario.

This project includes the extension of asphalt in the North end of the property and new landscape features, asphalt paving, and engineered wood fiber mulch in the kindergarten playground, West end of the property. The detailed scope of work, specifications, and drawings are shown in Appendix D – Scope of Work & Specifications.

2.6. EXAMINATION OF SITE & SITE VISIT

Location: St. Matthew Catholic School, 720 Elm Avenue, Sarnia, ON N7T 4H3

Contact: Juan Galindo, Cell: 226-402-4824

Instructions: The site examination will be held at the date and time specified in Section 2.1 RFT Schedule. Attendees are required to report to the main doors. A sign-in sheet will be available at the site examination. It is the attendee's responsibility to ensure they are signed-in at the meeting.

This is a MANDATORY SITE VISIT. Only contractors who attend the site visit will be permitted to submit a bid response. Attendance will be taken and will form part of the Bid Documents. Representatives of the Owner and Consultant will be in attendance.

In submitting a bid, it will be assumed that the bidders have carefully examined the drawings and have included in the bid price the complete cost of the work contemplated by the drawings and specifications and other bid documents.

2.7. TIMING OF PROJECT

The schedule for the completion of the project is:

- Commencement no earlier than May 4, 2020
- Completion no later than May 29, 2020

Work is to be completed during regular business hours. Working outside of school hours, including daytime access during weekends, holidays, March break, etc. shall be at the sole discretion of the SCCDSB's Project Manager.

2.8. COORDINATION WITH OCCUPANTS

Full Owner Occupancy: Owner will occupy site during entire construction period except for weekends. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.

- Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.

- Kindergarten playground area (property West end) is fenced off. Contractor to supply and install proper construction signage to inform students, school staff, and the public of the work performing work and construction zone.
- Extension of the asphalt area in the North end of the property needs to be temporarily fenced off to contain construction work. Contractor to supply and install proper construction signage to inform students, school staff, and the public of the performing work and construction zone.
- Notify Owner not less than 48 hours in advance of activities that will affect Owner's operations.
- Restrict high noise operations (i.e. breaking and cutting concrete) to unoccupied periods. Include any overtime wages due to the condition stipulated.
- Power shutdowns will be scheduled during unoccupied periods. Include any overtime wages due to the condition stipulated.

2.9. **BID SUBMISSION**

Bids shall be submitted with the project clearly identified on the sealed envelope:

RFT Bid Package #: 652-2020-01 Outdoor Play Space Project – St. Matthew Catholic School

Attention: Tony Prizio, Supervisor – Procurement

The sealed Bid Submission must be returned to:

Reception Desk, Catholic Education Centre

420 Creek Street, Wallaceburg, ON N8A 4C4

Bids MUST be received no later than the date and time specified in this tender document. Any bid submissions received after the deadline will be returned unopened to the bidder. It is the Bidder's responsibility to ensure their Bid Submission is received by a Board representative on or before the tender close. The Board will not take any responsibility for late submissions due to postal delay through Canada Post, third-party courier services, or for any other reason.

If a Bidder chooses to deliver their Bid Submission via post or courier, the envelope or package must reference the project number and project description on the outside.

Bids shall be filled out in ink or typed, signed in longhand by a duly authorized company official (having authority to bind). One original of the fully completed Bid Form must be submitted. Failure to provide all of the requested information on the Bid Form may result in disqualification of the bid. Please refer to Appendix A: Bidder's Response Guide.

Bids by telephone, email, or fax will not be accepted.

After bid closing all submissions will be reviewed by the Board's evaluation team. Contractors submitting a bid are invited to stay for a public opening of Bids following the submission deadline at the Facility Services Office in Bright's Grove.

Supplier's Bid Submission, all Bid Documents and Purchase Order will form the agreement.

2.10. **CONTRACT PRICING**

Proponents must complete the Bid Form. Prices must include all travel, reimbursements, delivery (FOB Destination).

All charges must include the cost of the product or service. Prices quoted must be for products or services exactly as specified, unless otherwise noted or requested on the Bid Form.

2.11. QUESTIONS AND REQUESTS FOR CLARIFICATION

Proponents finding discrepancies, ambiguities or omissions in the RFT documents or having doubt as to the meaning or intent thereof, shall immediately notify the Procurement Department. The board is not responsible for any misunderstanding of the RFT on the part of a Proponent. Questions must be received by the date and time specified in the RFT Document. Responses will be provided in writing to Proponents through the same platform that the original RFT documents were issued.

All questions to be addressed in writing to: [Tony Prizio](mailto:tony.prizio@st-clair.net), Supervisor - Procurement
St. Clair Catholic District School Board
E-mail: tony.prizio@st-clair.net
CC: victoria.iaccino@st-clair.net

For the purpose of this RFT, Proponents shall not contact anyone in the Board other than the designated contact listed in these bid documents. Any unauthorized communications may result in disqualification.

2.12. ADDENDA

Proponents may also, during the RFT Process, be advised by Addendum of any additions, deletions or alterations to RFT documents. All such Addenda shall become part of the RFT Documents.

If an addendum is issued, the document(s) will be made available to Proponents through the same platform that the original RFT documents were issued. Proponents are responsible for verifying before submitting its response that it has received all addenda that may have been issued.

Where a Bid Submission has been received by the Board prior to the publication of an Addendum or notice, the Board shall allow that Proponent to submit a revised Bid Submission prior to the closing date for the RFT or send written acknowledgement (which may be by email) to the RFT contact that the original Bid Submission still stands.

2.13. WITHDRAWAL OF SUBMISSION

A Proponent may alter, amend, or withdraw a submitted proposal if such request is received in writing by the contact person for this RFT prior to the closing date and time specified in this document. The last submission shall supersede and invalidate all previous submission by that Proponent as it applies to this bid. Such requests received after the closing date and time will not be permitted.

2.14. BID ACCEPTANCE

It shall be understood by all proponents, that the RFT submission shall be valid and subject to acceptance by the Board, and that no adjustments shall be made to the proposal for a period of up to and including sixty (60) days from the RFT Closing Date.

The Board reserves the right to determine the successful proponent at its sole discretion. The lowest cost may not be accepted. The Board reserves the right to decline any or all submissions, in whole or in part, at any time prior to making an award.

The successful proponent shall be required to enter into a formal contract with the Board, which will include the terms and conditions of the RFT documents, the Proponent's bid, and all other applicable documents.

2.15. CANCELLATION

The Board may cancel this RFT at its discretion at any time prior to an award. The Board may do so for budgetary reasons, for any other reason, or without providing reasons and issue a new request for tender, request for qualifications, or do nothing.

2.16. CLARIFICATION

The Board reserves the right to seek clarification from any Proponents without being obligated to all Proponents if it finds certain aspects of a bid unclear.

2.17. BOARD'S RIGHT TO WAIVE MINOR IRREGULARITY

The Board reserves the right to accept or waive a minor irregularity, or where practical to do so, the Board may as a condition of bid acceptance request a Proponent to correct a minor irregularity with no change in bid price. Items of non-compliance on any bid submissions which do not strictly comply with the provisions, procedures and requirements of this bid, or are incomplete, ambiguous, or which contain errors, alterations, misleading information, omissions, or irregularities of any kind, may be rejected and disqualified at the discretion of the Board. All proponents agree to provide all such additional information as, and when requested, at their own expense, provided no proponent in supplying any such information shall be allowed, in any way to change the pricing or other cost quotations originally given in its bid submission or in any way materially alter or add to the solution originally proposed.

2.18. ERRORS AND OMISSIONS

The Board will not be held liable for any errors or omissions in any part of the RFT. While the Board has used considerable effort to ensure an accurate representation in the RFT, the information contained in the RFT is supplied solely as a guideline for the Proponents. The information is not guaranteed or warranted to be accurate by the Board, nor is it necessarily comprehensive or exhaustive.

2.19. DOCUMENT AVAILABILITY

RFT documents are available on the Board's Website www.st-clair.net under Bid Opportunities or on Biddingo www.biddingo.com. Documents will also be provided to local construction associations: Sarnia Construction Association, Windsor Construction Association, Lambton Area Builders Exchange and the London & District Construction Association.

The Board assumes no responsibility for the proponent's failure to examine all of the RFT Documents.

2.20. PROPONENT EXPENSES

Any and all costs and expenses incurred by Proponents in the development, preparation, submission or presentation of their bids, or otherwise related to its participation in this RFT process will be borne by the Proponents. The selection of any bid, or the rejection of any or all bids, or the termination/cancellation of this RFT process, or initiation of a new RFT process shall not render the Board liable to pay or reimburse any such costs or damages incurred by any Proponent, or any partner or contractor of such Proponents.

2.21. VOLUNTARY ALTERNATE & SEPARATE PRICES

The bid amounts are to be based on the bid documents. Where there is any conflict within the bid documents, the bid amount shall include the higher cost alternative. Alternative proposals are encouraged and should be clearly identified in the bid. Submit complete information including any impact on schedule to allow a full evaluation of the proposal including, as applicable, any particulars in which the alternate proposal is at variance with or unable to meet the specifications. Note also any impact on other trades if the alternative is accepted. Alternative proposals may be made without limitation, including for items

specified as single sourced. The Board in its sole and unfettered discretion reserves the right to accept or reject alternatives.

2.22. BID INELIGIBILITY

Bids may, at the discretion of the Owner, be declared informal for any of the following reasons:

- the bid is incomplete, unsigned, improperly signed or sealed, conditional, illegible, obscure, contains arithmetical errors, erasures, alterations, or irregularities of any kind, or
- the bid does not include the required bonding/ consent of surety
- the Bid Forms and enclosures are improperly prepared, or
- the prices seem to be so unbalanced as to adversely affect the interests of the Owner, or
- the bid is based upon an unreasonable period of time for completion or delivery, or
- the bid does not include the required Proof of Insurance

2.23. AWARD

The Board has the right to reject any or all bids. The lowest Bid will not necessarily be accepted. The invitation to bid does not constitute an offer by the Contractor to enter into a contract. In the event of a tie, a coin flip conducted by the Supervisor – Procurement (or designate) with a minimum of one other Board staff will determine the successful proponent.

Acceptance of the Bid and/or award is subject to the approval of the St. Clair Catholic District School Board.

The SCCDSB reserves the right to withdraw the award of the contract to a successful bidder(s) within 30 days of the award if, in the opinion of the SCCDSB, the successful bidder(s) is unable or unwilling to enter into a form of contract satisfactory to the SCCDSB. The SCCDSB shall be entitled to do so without any liability being incurred by the SCCDSB to the bidder.

2.24. ENTITLEMENT TO A DEBRIEFING

In accordance with the Broader Public Sector Procurement Directive unsuccessful Bidders are entitled to a debriefing, during which they will be provided with feedback regarding their Tender. In order to be debriefed, unsuccessful Bidders must contact the Owner representative identified in the Bid Documents in writing to request a debriefing within sixty (60) days from the date of the notification of award.

2.25. BID DISPUTE PROCEDURE

In the event that a Bidder wishes to review the decision of the Board in respect of any material aspect of the Request For Tender process, the Bidder shall submit a protest in writing to the Board to the attention of the Supervisor – Procurement within ten (10) days of the closing date of the Tender.

Any protest in writing shall include the following:

- a) a specific identification of the provision and/or procurement procedure that is alleged to have been breached;
- b) a specific description of each act alleged to have breached the procurement process;
- c) a precise statement of the relevant facts;
- d) an identification of the issues to be resolved;
- e) the Bidder's arguments and supporting documentation;

- f) the Bidder's requested remedy.

2.26. INVOICING & PAYMENT

The Board shall pay by electronic funds transfer (EFT), P-Card, or cheque within twenty eight (28) days after the receipt of a proper invoice. Invoices will be reviewed and certified by the Board's Consultant, if applicable, before the invoice is processed for payment. Invoices must include all back-up material for time and material charges, disbursements, and other fees. Please make reference to the Purchase Order number on the invoice.

Invoices should be sent digitally to victoria.iaccino@st-clair.net. Digital invoices will be processed as an original. Please do not send duplicate copies by mail.

Note: Invoices should reflect a 10% holdback (final construction cost) which will be retained by Board through substantial completion of the project in accordance with relevant legislation.

2.27. TAXES

Include in Bid all Taxes and all other Customs Duties and Excise Taxes which are in force at Bid date as detailed in General Conditions. Harmonized Sales Tax (H.S.T.) is **not** to be included in the bid. The H.S.T. amount and the Bidder's **H.S.T. Registration Number** are to be indicated on the Bid Form in the spaces provided.

2.28. CHANGE NOTICES, CHANGE ORDERS

The following fee percentage and overhead charges shall be applied to additional work ordered by the Board:

- For work carried out by the Contractor's own forces – 10% Overhead & Profit
- For work involving a subcontractor, the subcontractor may charge a maximum 10% fee. The General Contractor may charge a maximum of 5% in addition to subcontractor's fee.

2.29. PROJECT SPECIFIC REQUIREMENTS

Any and all damages to facilities while under the control of the contractor shall be repaired at the contractor's cost. Please be advised that the Owner has a No Smoking Requirement on the Owners' property. Contractors shall provide their own washroom facilities for their employees; board washrooms will be off limits to the contractor's employees. Contractors are requested to ensure that employees and suppliers are advised of these Requirements. Contractor shall remove rubbish and debris from the site on a daily basis or as directed by the Board. On completion of the work, all debris shall be removed; the floor shall be thoroughly cleaned and swept; the site shall be left in a tidy condition (construction clean). Do not use the Board's equipment or facilities for cleaning or for any reason.

2.30. SUBCONTRACTORS

The successful Proponent(s) may not, at any time, subcontract any portions of its contract with the Board nor shall it assign the contract without the written permission of the Board. The successful Proponent(s) must not, at any time, change subcontractors approved by the Board without the written permission of the Board.

2.31. GENERAL TERMS AND CONDITIONS

The issuance of this bid document shall not constitute an obligation on the part of the Board to any proponent who submits a bid.

The laws of the Province of Ontario shall govern any dispute occasioned as a result of the performance or non-performance and/or workmanship of a contract issued pursuant to the bid and any dispute arising out of the issuance of and response to this bid document.

All SCCDSB policies, procedures and regulations must be adhered to by the successful bidder(s).

Some of the Board sites are equipped with video surveillance cameras.

The successful proponent(s) is obliged to cooperate with all recycling and environmental procedures and initiatives established by government, the Board and each school.

The successful bidder(s)' employees and contracted staff shall not be considered SCCDSB employees and shall not represent themselves as an agent of the SCCDSB nor be eligible for any of the benefits provided to SCCDSB employees.

The SCCDSB reserves the right to demand the removal of any successful bidder's employees or contracted staff engaged in this contract if, in the SCCDSB's opinion, their conduct has been of an unacceptable nature.

The successful bidder(s) will be responsible for ensuring that regular supervision is maintained over all working personnel. It is the bidder's responsibility to ensure that all their activities are properly coordinated with the SCCDSB's operations and modify assignments as required.

This bid document is being issued pursuant to the SCCDSB's Purchasing Policies and Procedures.

The acceptance of the bid by the successful proponent(s) and the award of the contract contemplated by this bid document may be subject to approval of the Board of Trustees.

2.32. BONDING (NOT REQUIRED)

~~On bids exceeding \$100,000.00 (inclusive of all taxes) the following tender security / bonding is required and must accompany the bid:~~

- ~~▪ Agreement to Bond: 50% Performance and 50% Labour and Material~~
- ~~▪ Bid Bond: 10% of the bid price, payable to the St. Clair Catholic District School Board~~

~~If the bid amount is greater than \$100,000 and less than \$500,000 (inclusive of all taxes) the Surety or Bid Bond may be provided in the form of an irrevocable letter of credit, a certified cheque, or money order payable to the Board in the value of 10% of the bid amount.~~

~~Only bond and agreements to bond issued by a licenced Canadian surety company authorized to do business in the Province of Ontario will be accepted. Upon request, the successful Bidder will be required to present the bonds to the Purchasing Department. Bonds must be issued as prescribed by the Construction Act regarding Broader Public Sector contracts. Failure to provide the proper surety to the Board upon award will result in rejection of that Bid. The cost of bonding shall be included in the Bid price, if applicable.~~

2.33. INSURANCE

The successful Proponent(s) must maintain, at the Proponent's expense for the entire term of the Contract or as otherwise required, all insurance as set out below. Proof of coverage must be received as part of the bid submission.

- Comprehensive General Liability and Property Damage with a limit of not less than **\$5,000,000.00 (five million dollars)**.
- Motor Vehicle Public Liability and Property Insurance on all owned and rented equipment with a limit of not less than **\$2,000,000.00 (two million dollars)**.

The Proponent agrees to indemnify, hold harmless, and defend the Board, its Consultants, agents or employees from and against any and all liability for loss, damage and expense, which the Board may suffer or for which the Board may be held liable by reason of injury (including death) or damage to any property arising out of negligence on the part of the proponent or any of its representatives, employees, or subcontractors in the execution of the work performed or by way of ownership or operation of an automobile.

The successful Proponent shall provide the Board with a complete certified copy of all policies. Copies of renewed policies must be provided to the Board on or before the policy renewal date for projects that extend past the original policy term or for multi-year contracts. The successful Proponent must name the St. Clair Catholic District School Board as additional insured on their insurance policies.

2.34. WORKPLACE SAFETY INSURANCE BOARD (WSIB)

Successful Proponent(s) must ensure that all workers are covered by the Workplace Safety and Insurance Board coverage for the duration of this contract. Proof of coverage must be received as part of the bid submission.

Proponents must furnish a Certificate of Clearance from the Workplace Safety and Insurance Board as evidence that all returns have been made and all necessary assessments have been paid as required, or levied, by the Workplace Safety and Insurance Board.

Alternatively, if the Proponent is an Independent Operator and is not classified under Class G: Construction, the proponent must provide a letter from the Work Place Safety & Insurance Board confirming independent operator status and identification number under the WSIB Act.

2.35. PERMITS

The Board will apply and pay for a building permit if applicable. The contractor is to obtain all other permits as required to complete the project, including but not limited to ESA, hot work permit etc.

2.36. MEETINGS

A Post Bid Meeting may be convened and chaired by the Board who will invite the Successful Proponent and his major Subcontractors to review the Contract Documents and Bid submitted. This meeting will be prior to the Board issuing a Letter of Intent or Contract. This meeting does not constitute or infer any contract award to the proposed contractor or any other contractor, nor that will the project proceed.

During the course of Work, scheduled progress meetings may be required at the call of the Project Leader.

2.37. WARRANTY

The vendor/contractor warrants that all goods/services, materials and equipment supplied under contract are free of all defects in manufacture and workmanship for a period of not less than 1 year from date of delivery, installation or performance (whichever is the later) whether or not any portion or trade has been sublet.

The vendor/contractor shall promptly remedy any defect or deficiency in any goods/services, materials and equipment supplied under contract to the satisfaction of the Board within seven (7) calendar days following notice to do so from the Board at no additional cost to the Board, unless otherwise specified.

In the event that the vendor/contractor doesn't not promptly honour the above warranties to the satisfaction of the Board, the Board may, at the sole cost of the vendor/contractor do whatever it deems necessary and advisable to remedy, rectify or replace the defective, deficient or non-compliant goods, services, materials or equipment. The Board shall inform the vendor/contractor in advance of the approximate cost of such work to be done by the Board.

All goods/services and/or equipment furnished or supplied pursuant to the contract shall be installed or attached in such a manner as to preserve all manufacturer's and vendor/contractor's warranties, which shall, together with all parts and components, become the property of the Board after the successful and satisfactory installation or attachment.

2.38. GUARANTEE

The vendor/contractor guarantees that all goods/services, materials and equipment supplied under contract are new manufacture. The products must not contain re-manufactured parts and/or accessories and must not have been used under contract with any other customer(s) unless specified by the Board. The submissions will be of the latest design and technology at the time of submission by the vendor.

The vendor/contractor represents and warrants that the goods and/or services supplied pursuant to this bid will be manufactured and/or supplied under such conditions that do not contravene the Ontario Human Right Code or the minimum standards of Ontario workplace legislation and regulations or are otherwise unethical. In the event in the opinion of the Board, the bidder is in breach of the foregoing representation and warranty, the Board may cancel the award or any such subsequent contract entered into between the Board and bidder pursuant thereto.

2.39. SCHEDULE

The Contractor will be required to perform the work in accordance with the Schedule dates provided in 2.7. Timing of Project. Ordering of major and long delivery items shall begin immediately upon successful bidder's receipt of contract award. The Contractor will provide a construction schedule within five (5) days of being awarded the project.

Time is of the essence. Bidders are to include adequate manpower, overtime and shift work necessary to meet or improve the schedule, and to make up any time lost to weather or normal delays. Include travel, room and board costs for out of town workers, shop overtime and other premiums to expedite material and equipment, shipping premiums and any incentive costs required to meet the schedule.

2.40. CONTRACTED SERVICES PROGRAM

Contractors performing work on Board property must complete the Contracted Services Program. The Contracted Services Program is a joint program with Lambton Kent District School Board. This program has three basic components that **must** be met before the bid is awarded. Contractors who cannot meet the minimum requirements of this program will not be awarded this tender. Program information can be found on the Board's web site at www.st-clair.net or through the Board contact identified previously in this document. If the contractor has already been pre-qualified by LKDSB they must provide proof of completion. Identification badges can be used on SCCDSB or LKDSB property. All Insurance and WSIB certificates must be up to date under the Contracted Services Program.

2.41. HEALTH and SAFETY

The Occupational Health and Safety Act describes the responsibilities of an employer. The Board requires Contractors to maintain procedures, training, and enforcement so that the responsibilities are carried out in the workplace. The Contractor shall abide by and strictly adhere to the regulations and conditions set out and laid down by the most current versions of the Occupational Health and Safety Act. All staff employed or hired by the Contractor and working on the Board's premise MUST be trained in WHMIS in accordance with Occupational Health and Safety Act and Regulations. They MUST adhere to all of the Board's Health and Safety Procedures and Guidelines and to Municipal By-Laws.

Contractor will submit proof of its health and safety program, procedures and training as detailed above upon request by the Board.

The Contractor shall appoint a Competent Person as the Supervisor of this project. The Competent Person shall be as defined in Section 1 of the Occupational Health and Safety Act.

The successful Contractor shall conform to the Ontario "Occupational Health and Safety Act" and all regulations made under said act and assume full responsibility for contraventions of same.

All workplace injuries or accidents on Board property MUST be reported by the Contractor to the Board's representative within 24 hours.

Any workplace injury that is defined under the Occupational Health and Safety Act as a "Critical Injury" must be reported to the Board's representative IMMEDIATELY.

2.42. ELECTRICAL AND SAFETY APPROVALS

All electrical/electronic components supplied by the vendor/contractor must be CSA, ULC and/or Ontario Hydro/Ontario Electrical Safety Authority approved. Appropriate labels must be affixed to the equipment prior to delivery. The vendor/ contractor is responsible for ensuring goods or services supplied to the Board must comply with the Occupational Health and Safety Act and Regulations of Industrial Establishments.

2.43. DESIGNATED SUBSTANCES

The contractor shall conduct work in recognition of the most current regulations related to Designated Substances. The contractor is required to review the site specific designated substances report to ascertain potential for exposure to designated materials and notify the board of instances where the scope of work under this contract will require remediation. If the report does not schedule designated materials in the attached report and should the contractor uncover material which is believed to be asbestos, work is to cease immediately and the Board staff are to be contacted immediately.

2.44. SAFE SCHOOL PROCEDURES

Contractor's staff is required to report to the main office of the site where work will be carried out during regular school hours and notify the school office staff of the purpose of the visit. The Contractor is required to adhere to all school specific procedures if applicable.

It is the responsibility of the Contractor's staff to sign in and sign out of the Log Book, which is located in the main office area, while performing their duties.

The following information must be recorded in a legible manner:

Date

Company Name
Employee Name
Employee Signature
Reason for Visit
Time Entering Building
Time Leaving Building

2.45. HOISTING, SCAFFOLDS, ELEVATED WORK PLATFORMS

The Contractor is responsible for all hoisting and other equipment necessary to facilitate their work if required.

2.46. TEMPORARY POWER

A source of electric power will be designated by the Board. The Board will allow a tie-in connection with fuse or breaker protection for the Contractor's estimated load requirements. The Contractor must provide the power connections and all extensions from the point to the job site. All electrical connections and extensions must meet ESA requirements and must be approved by the Board. The Contractor's estimated load requirements must not be exceeded without the Owner's permission.

2.47. NOISE AND TRAFFIC CONTROL

Bidders shall comply with all applicable **noise by-laws** (or local requirements governing same) and traffic routing that may be in effect during the life of the Project.

This **may** limit some activities to restricted time periods. Where the schedule requires for after hour work, the Contractor shall include all costs associated with obtaining the necessary permits to work such time periods.

The Contractor shall be responsible for all costs associated with providing a traffic officer as necessary to facilitate construction.

2.48. SITE ACCESS AND EGRESS

Contractors will be required to sign out a master key and will be assigned an access code for the alarm system. Successful Contractor will be responsible for building security during working hours and locking up the facility at night, which includes setting the alarm.

Any false alarms generated by the Contractor's workforce will result in a back charge for the costs incurred to the Board.

The Contractor shall make good any damage to roads, curbs, sidewalks, fencing, or grass damaged by vehicles or equipment during the course of construction.

2.49. PARKING

Contractors must park within the designated areas and allow for provisions to and from the designated parking area onto the job site.

2.50. CONTRACTOR'S PERSONNEL

The Contractor shall, at its own expense, provide all the personnel required to take a proactive role in managing the project as it relates to their work and its coordination with other trades. This will include but is not limited to the following:

- Competent supervision of the work of the Contract and coordination with the work of other Subcontractors. This includes being responsible for and properly supervising any subcontractors of this subcontractor.
- All layout work required to complete the work of the trade contract.
- Competent supervision of the work of the trade contract to ensure work is done in accordance with the OHSA and any other applicable regulations.
- Expediting the procurement of material and equipment to ensure delivery by their required dates.
- Submission of Requests for Information where required in a timely manner and wherever possible providing the Board with information to assist in the answering of these requests.
- Submission in a timely manner of all required shop drawings and samples and assistance to the Board required to obtain approvals to suit the schedule. All shop drawings are to be reviewed by the Contractor prior to submitting for approval.
- Attendance at all construction coordination meetings when requested by the Board.
- Provision of all necessary information requested by the Board for cost control and billing purposes.
- Inspection of the work of the Trade Contract for defects and deficiencies and cooperation with the Board and other inspection authorities to allow their inspections to take place.
- Submission of pricing for all changes to the work within five (5) working days after receipt of change documentation including the breakdown and backup necessary to allow checking and approval.

2.51. ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT

The Purchaser is committed to the highest possible standards for accessibility. Proponent(s) must be capable to recommend and deliver, as appropriate for each Deliverable, accessible and inclusive Services consistent with the Ontario Human Rights Code (OHRC), the Ontarians with Disabilities Act, 2001 (ODA) and Accessibility for Ontarians with Disabilities Act, 2005 (AODA) and its regulations in order to achieve accessibility for Ontarians with disabilities.

In accordance with Ontario Regulation 429-07 made under the Accessibility for Ontarians with Disabilities Act, 2005 (Accessibility Standards for Customer Service), the Purchaser has established policies, practices and procedures governing the provision of its services to persons with disabilities.

Proponents are required to comply with the Purchaser's accessibility standards, policies, practices, and procedures, which may be in effect during the Term of the Agreement and which apply to the Deliverables to be provided by the Proponent.

2.52. CANADA'S ANTI-SPAM LEGISLATION

Please note that vendors are required to comply with all applicable laws, including CASL, in providing goods or services to the Board. This also extends to communications sent on the Boards behalf. The successful proponent(s) will be required to indemnify the Board for any failure by the successful proponent(s) to comply with CASL, to the extent that the successful proponent(s) action, or inaction, could expose the Board to liability.

2.53. CONFIDENTIAL INFORMATION

All correspondence, documentation, and information of any kind provided to any Proponent in connection with or arising out of this Request for Tender or the acceptance of any Bid:

- Remains the property of the Purchaser and shall be removed from the Purchaser's premises only with the prior written consent of the Purchaser.
- Must be treated as confidential and shall not be disclosed except with the prior written consent of the Purchaser.
- Must not be used for any purpose other than for replying to this RFT and for the fulfilment of any related subsequent agreement.
- Must be returned to the Purchaser upon request.

Except as provided otherwise in this request, or as may be required by Applicable Laws, the Purchaser shall treat the Proponents' Proposals and any information gathered in any related process as confidential, provided that such obligation shall not include any information that is or becomes generally available to the public other than as a result of disclosure by the Purchaser.

During any part of this Request for Tender process, the Purchaser or any of its representatives or agents shall be under no obligation to execute a confidentiality agreement.

All correspondence, documentation, and information provided in response to or because of this RFT may be reproduced for the purposes of evaluating the Proponent's Bid Submission.

If a portion of a Proponent's Bid Submission is to be held confidential, such provisions must be clearly identified in the Bid.

The Purchaser reserves the right to require any Proponent to enter into a non-disclosure and/or confidentiality agreement satisfactory to the Purchaser.

2.54. CONFLICT OF INTEREST

Proponents must declare all conflicts of interest or any situation that may reasonably be perceived as a conflict of interest in relation to the Project that exists now or may exist in the future. The Board, at its sole discretion, waives any and all actual, potential, or perceived conflicts of interest, on such terms and conditions and the Board, at its sole discretion, considers to be appropriately managed, mitigated, and minimized. In this regard the Board may require the Proponent to implement measures or take steps to manage or mitigate the impact of any actual, potential, or perceived conflict of interest.

2.55. MUNICIPAL FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT

The *Municipal Freedom of Information and Protection of Privacy Act* (Ontario) applies to information provided by Proponents. A Proponent should identify any information in its Quotation or any accompanying documentation supplied in confidence for which confidentiality is to be maintained by the Purchaser. The confidentiality of such information will be maintained by the Purchaser, except as otherwise required by law or by order of a court, tribunal, or the Ontario Privacy Commissioner.

By submitting a Bid, including any Personal Information requested in this RFT, Proponents agree to the use of such information for the evaluation process, for any audit of this procurement process, and for contract management purposes.

2.56. PERSONAL INFORMATION PROTECTION AND ELECTRONIC DOCUMENTS ACT

The Proponent represents and warrants that if the Proponent becomes subject to any private sector privacy legislation in responding hereto, or in carrying out its obligations under any subsequent agreement, the

bidder will be solely responsible with such legislation. Without limitation, the Proponent represents and warrants that if the Proponent is subject to the *Personal Information Protection and Electronic Documents Act* (PIPEDA) the Proponent shall ensure compliance of all PIPEDA Protected Information that the Bidder:

- Collects directly from the individuals or indirectly from the Board or others;
- Uses or discloses in the course of responding hereto or in performing its obligations under and subsequent agreement; or
- Transfers or discloses to the Board

2.57. TRADE AGREEMENTS

Proponents should note that procurements within the scope of either Chapter 5 of the Canadian Free Trade Agreement, Chapter 19 of the Comprehensive Economic and Trade Agreement, within the scope of the Trade and Cooperation Agreement between Quebec and Ontario or any other applicable agreement not listed herein are subject to such agreements, although the rights and obligations of the parties shall be governed by the specific terms of this RFT.

2.58. WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM

The Proponent should provide Workplace Hazardous Materials Information System (WHMIS) material safety data sheets (MSDS) for all Services. Additionally, the Proponent should provide the Purchaser's personnel WHMIS training, as it relates to the Services, in accordance with the Ontario Occupational Health and Safety Act.

2.59. VENDOR PERFORMANCE

Where the Contractor fails to comply with any of its obligations under the Contract, the Board may issue a notice setting out the manner and time-frame for rectification. Within seven (7) Business Days of receipt of that notice or in a timeframe as otherwise agreed to, the Contractor shall either: (a) comply with that rectification notice; or (b) provide a rectification plan satisfactory to the Board. If the Contractor fails to either comply with that rectification notice or provide a satisfactory rectification plan, the Board may immediately terminate the Contract. Where the Contractor has been given a prior rectification notice, the same subsequent type of non-compliance by the Contractor may allow the Board to immediately terminate the Contract and result in the suspension of bidding privileges to the Board for up to two years at the sole unfettered discretion of the Board.

2.60. TERMINATION OF CONTRACT

Either party may terminate the Agreement on written notice to the other where such other party neglects or fails to perform or observe any material term or obligation of the Agreement and such failure has not been cured within 30 Days of written notice being provided.

If the Proponent fails to execute the work properly or otherwise fails to comply with the requirements of the contract to a substantial degree, the Board may correct such default and deduct the cost thereof from any payment then or thereafter due to the contractor.

The Board shall be entitled to terminate the Agreement immediately, without liability, cost, or penalty on written notice to the Proponent:

- if any proceeding in bankruptcy, receivership, liquidation, or insolvency is commenced against the Proponent or its property;
- if the Proponent makes an assignment for the benefit of its creditors, becomes insolvent, commits an act of bankruptcy, ceases to carry on its business or affairs as a going concern, files a notice of

intention or a proposal, or seeks any arrangement or compromise with its creditors under any statute or otherwise;

- following the occurrence of any material change in the Board's requirements which results from a regulatory or funding changes, or recommendations issued by a Governmental Authority;
- in the event of a breach of the representation regarding conflict of interest;
- in the event of a misrepresentation or material breach;
- if the proponent uses, destroys, exploits, or discloses any Board Confidential Information to any Personal Information contrary to this Agreement; and
- in accordance with any provision of the Agreement that provides for early termination;

The Board reserves the right to terminate the Agreement, without cause, upon sixty (60) days' prior written notice to the Proponent.

The Board shall be liable to the Vendor only for the payment of Deliverable(s) supplied and accepted up to the date of termination.

The Board, at its sole and unfettered discretion, may extend the timelines for termination if it is deemed to be in the Board's best interest to do so.

Any termination of the Agreement shall not in any respect limit any of either party's rights or remedies either in law or in equity or relieve either party of any obligation incurred prior to the effective date of such termination.

[End of Part 2]

APPENDIX A: Bidder's Response Guide

Each bid submission should be structured using only the criteria identified in this bid document.

1. A completed copy of APPENDIX B: Bid Form **must** be included in your bid submission.
2. A completed copy of APPENDIX C: Quotation Form **must** be included in your bid submission.
3. Proof of WSIB Coverage and Proof of Insurance **must** be supplied as part of the bid submission.
4. Supplemental material will not qualify as substitutes for direct responses to the bid's requirements, except for specifically requested material.
5. The successful contractor must be prequalified under the contracted services program before an award is made.

APPENDIX B: Bid Form

Submitted By: _____

To:

St. Clair Catholic District School Board

Outdoor Play Space Project

St. Matthew Catholic School

B1. Base Bid Price

The Drawings, Specifications and other Contract Documents for this Project have been examined, as well as the premises and job site conditions affecting the work. Please complete Appendix C: Quotation Form. The undersigned hereby offers to complete the work in accordance with the Contract Documents for the following bid price, except as defined below for HST:

Asphalt:

Please identify the total of Section A – Asphalt Extension, North End from Appendix C

_____ Dollars (\$) _____)

Kindergarten Playground:

Please identify the total of Section B – Kindergarten Playground from Appendix C

_____ Dollars (\$) _____)

in Canadian funds EXCLUDING HST. HST will be added to the bid price.

In submitting this Bid, the undersigned recognizes and accepts the right of the Owner to accept any Bid, which is deemed the most advantageous to the Owner, (or any part thereof), at the price submitted, or to reject any or all Bids. Acceptance of the Bid and/or award of the contract is subject to the approval of the Board.

In the event that a discrepancy arises between the written bid price and the associated numerical price, the written bid price will be deemed to be correct.

B2. Harmonized Sales Tax (HST)

The bidder shall not include the applicable HST in the bid price. The successful contractor will indicate on each application for payment as a separate amount the appropriate HST the Owner is obliged to pay.

HST Registration # _____

B3. Cash Allowances

1. Please include a 10% contingency as identified on the quotation form.

Time and Materials rates to be applied against Cash Allowance work. Final reconciliation will adjust the cash allowance as credit to the SCCDSB for unexpended amounts and extra to the contractor for over expenditure. The contractor shall mark-up sub-trade time and materials billing for this portion of work at 10% only.

B4. Itemized Prices

The following prices have been included in the Base Bid amount. The following prices, if accepted by the owner, shall include all labour, material, tools, equipment, overhead and profit, but exclude H.S.T. No other cost consideration shall be added to the contract for the scope of this work if accepted by the owner. The owner retains the right to cancel any or all of the sites for any reason.

Itemized Prices: Please complete the breakdown of costs as identified on Appendix C: Quotation Form.

B5. Alternate Prices

It is accepted that the intent of alternate prices is to allow the Owner to select an alternative scope of work at a price which is declared below, and solely at the owner's discretion. All prices submitted take into consideration and allow for changes and adjustments in other work as may be necessary to provide a finished functional result, unless specifically indicated otherwise.

The following alternate prices are for work which is not included in the stipulated bid price listed on the bid form but which may be substituted by the Owner for work which is included (no price listed shall mean no change in cost) and the Owner has the right to accept or reject any or all of the prices quoted. The following prices, if accepted by the owner, shall include all labour, material, tools, equipment, overhead and profit, but exclude H.S.T. No other cost consideration shall be added to the contract for the scope of this work if accepted by the owner.

Alternate Price #1: None at this time.

B6. Separate Prices

It is accepted that the intent of separate prices is to allow the Owner to select a separate scope of work at a price which is declared below, and solely at the owner’s discretion.

The following price has not been included in the Base Bid amount. The following prices, if accepted by the owner, shall include all labour, material, tools, equipment, overhead and profit, but exclude H.S.T. No other cost consideration shall be added to the contract for the scope of this work if accepted by the owner.

Separate Price #1 – Appendix C: Quotation Form, Section C - Optional Paving 1:

\$ _____

Separate Price #2 – Appendix C: Quotation Form, Section D - Optional Paving 2:

\$ _____

B7. List of Subcontractors

Trade: _____ Contractor: _____

Trade: _____ Contractor: _____

Trade: _____ Contractor: _____

B8. Project Superintendent / Supervisor

The Owner requires the General Contractor provide a full time site supervisor for the duration of the project. A minimum of 5 years supervisory experience is required. List proposed personnel and their experience in the table below. Supervisory experience with firms other than the Bidder is acceptable to include on the list. The General Contractor shall indicate the person chosen in writing to the Owner within 5 days of contract award.

Name	Firm/Position	Qualifications/ Experience

B9. Conflict of Interest

I /We confirm that: (please check one)

_____ There is not nor was there any actual or perceived Conflict of Interest or any other type of unfair advantage in our submitting this Proposal or performing or observing the contractual obligations of the Contractor in the Agreement.

OR

_____ Complete with this bid submission is a declaration on company letterhead of situations which may be a Conflict of Interest or an instance of unfair advantage or appears as potentially a Conflict of Interest or unfair advantage in our company submitting this Proposal or the contractual obligations of the Contractor under the Agreement.

Please note that the Board has the right to waive an actual or perceived conflict of interest as described in section 2.54 CONFLICT OF INTEREST.

B10. Agreement of Terms

I/We hereby acknowledge and agree that I/we have read, accepted, and completed all Contract Terms and Conditions and Appendices.

I/We understand it is the SCCDSB's intention that this RFT and the successful proponent(s)'s returned RFT submission will form the basis of the proposed contract. All of the terms and conditions of this RFT must be accepted by the proponent(s) and incorporated into the proponent(s) RFT submission. It is the SCCDSB's intention to use a Purchase Order when establishing a contract with the successful proponent(s).

The undersigned acknowledges receipt of Addenda Numbers _____ through _____ inclusive, and that the price, or adjustment thereof, for all work required therein is included in this submission.

This page must be signed below and returned with your submission for your bid to be accepted.

I/We the undersigned are duly authorized to execute this Bid Submission on behalf of:

Company:

Address:

Name:

Title:

Signature:

Date:

Phone:

Fax:

Email:

Please refer to Appendix A: Bidder's Response Guide to ensure you include all necessary documentation with your bid submission

APPENDIX C: Quotation Form

Appendix C: Quotation Form is a separate Excel document and forms part of these Bid Documents. Please complete Appendix C: Quotation Form in its entirety by filling in the orange unit price input cells. Values will calculate automatically using formulas in the Excel document. Please use the appropriate subtotals identified on the Quotation Form to complete Appendix B: Bid Form. Appendix C: Quotation Form must be included in your bid submission.

APPENDIX D: Scope of Work and Specifications

Contents

Specifications	21
Details	13
Drawings	3
L1 - Removals Plan	
L2 – Landscape Plan	
Asphalt Extension	
Pictures	2
Existing Drainage	
New Drainage	

SECTION 00300 – SUBCONTRACTORS

1. LIST OF SUBCONTRACTORS

1. Below is a list of the Subcontractors the undersigned will use in connection with the Work. Should the contractor undertake the work listed below on their own, “Own Forces” should be listed beside each item that applies.
2. The undersigned Bidder submits that in proposing the below listed Subcontractors, it has consulted each and has ascertained, to the undersigned’s complete satisfaction, that those named are fully acquainted with the extent and nature of the Work and of the Contract Time, and that they will execute their portion of the Work to conform to the requirements of the Contract Documents.

3. List of Subcontractors

Excavation and Backfilling

Hot Mix Asphalt Paving

Rough Carpentry

Planting

SECTION 01200 – PROJECT MEETINGS

1. PRE-CONSTRUCTION MEETING

1. After the award of Contract, the Consultant shall arrange and the Contractor shall attend and cause its Subcontractors to attend a meeting among same, and include the Contractor’s project managers, the Owner’s representative and others whose coordination is required during construction.
2. The purpose of the meeting will be to review and discuss the Project and certain specifics of the Contract Documents.
3. The Consultant will take minutes at this meeting.

2. PROJECT MEETINGS

1. At least once every two (2) weeks during the Contract Time (and more frequently as circumstances may reasonably require), the Contractor will convene site meetings among the representative of the Contractor, the Owner, the Consultant Subcontractors, and such others as circumstances dictate to discuss the progress of the Project and any concerns relating thereto, including, without limitation,

scheduling, document interpretation and completion.

2. The Contractor shall advise all proposed attendees sufficiently in advance (and provide a proposed agenda for each such meeting), so as to enable the attendees to arrange for their attendance and to otherwise prepare for same.
3. The Contractor shall take minutes of such site meetings which shall include:
 1. list of attendees;
 2. all matters discussed;
 3. decisions taken;
 4. instructions required or issued;
 5. list of carry forward matters; and
 6. date of next site meeting.

The Contractor shall circulate typed copies of such minutes to all present and to such other persons as the Consultant or the Owner may, from time to time, direct, within three (3) days of each such meeting.

SECTION 02050 – DEMOLITION

1. GENERAL

1.1 PROTECTION

- a. Prevent movement, settlement or damage of adjacent structures, services, walks, paving, trees, landscaping, and adjacent grades. Provide bracing and shoring as required. Make good damage and be liable for injury caused by demolition.
- b. There shall be no dry cutting of stone, asphalt, or concrete within the site limits, on St. Clair Catholic District School Board Property.

SECTION 02200 – EXCAVATION & BACKFILLING

1. GENERAL

1.1 DESCRIPTION

- a. The Work of this Section shall be all labour, materials, equipment and supervision necessary to complete the stripping, excavation and backfilling as shown on the drawings and as specified herein, including the following:
 - i. Removal of existing granular and native materials to required elevations
 - ii. Offsite disposal of excavated native materials
 - iii. Supply, place and compact granular materials.

1.2 RELATED WORK

- i. Demolition - Section 02050
- ii. Site Grading - Section 02210

1.3 REFERENCE STANDARDS

- a. Ontario Provincial Standard Specifications
 - OPSS 206 – Grading
 - OPSS 517 – Dewatering
 - OPSS 1010 – Aggregates, Granular A, B and M and select subgrade material

1.4 SITE CONDITIONS

- a. Visit and examine the site and note all characteristics and features which may affect the Work of this section. The information shown on the Drawings is provided for the guidance of the Contractor but shall in no way relieve him of the responsibility for determining the nature of the conditions of the site.
- b. No allowance will be made for difficulties encountered or expenses incurred resulting from conditions known, visible, or which can be reasonably construed at time of bid.

1.5 UTILITIES

- a. Before commencing excavation, engage the services of local public utilities commission, hydro, telephone, gas, and all other authorities to accurately determine location of any underground services.
- b. Take care not to damage or displace encountered services, whether known or unknown.
- c. When such services are encountered during the execution of Work, immediately notify the Consultant and protect, brace, and support active services. Where repairs to these services become necessary, use the following procedure:
 - i. Known services: Repair at no expense to the Owner
 - ii. Unknown services: Forward to the Owner a complete breakdown of the estimated cost of such work. When the Owner's written approval of the cost of such repair work has been received, proceed immediately with repairs. The amount approved therefore shall be considered as an addition to the Contract.
- d. In case of damage to an essential service, notify the Consultant immediately and repair the service under the Owner's direction, and to the approval of authorities having jurisdiction.
- e. Record locations of maintained, re-routed, and abandoned underground utility lines.

1.6 PROTECTION

- a. Protect from damage all established utilities, buried services, roadways, bench marks, reference points, and boundary markers on this or the adjoining properties.
- b. Protect utilities, pavements, and other facilities immediately adjacent to excavations, from damage caused by settlement, lateral movement, undermining, washout, and other hazards.
- c. Effect approved measures to minimize dust as a result of this Work.
- d. Stockpile excavated material where it will not interfere with site operation or drainage.

1.7 REMOVAL OF WATER

- a. Provide and install pumps with adequate suction and discharge lines together with power to operate same to keep excavations free of water at all times. Retain pumping equipment at site and operate same as required by other trades to facilitate their operations. Take all necessary precautions to prevent cave-ins and flow of water into the excavation.
- b. Conform to OPSS 517 for dewatering.

1.8 HANDLING, STORAGE, AND DELIVERY

- a. Handle and transport aggregates to avoid segregation, contamination, and degradation.

1.9 STOCKPILING

- a. Stockpile new materials on site in locations as indicated unless directed otherwise by Consultant.
- b. Stockpile new materials in sufficient quantities to meet project schedules.
- c. Stockpiling sites to be level, well drained, and of adequate bearing capacity and stability to support stockpiled materials and handling equipment.
- d. Stockpile materials on ground but do not incorporate bottom 300mm of pile into the Work.
- e. Stockpile different materials far enough apart to prevent intermixing.
- f. Do not use intermixed or contaminated materials. Remove and dispose of rejected materials as directed by the Consultant within forty-eight (48) hours of rejection.
- g. Stockpile materials in uniform layers of thickness as follows:
 - i. Max 1.5m for all materials.
- h. Uniformly spot-dump materials delivered to stockpile in trucks and build up stockpile as specified.
- i. Do not cone piles or spill material over the edge of piles.
- j. Do not use conveying stackers.
- k. Leave stockpile site in tidy, well drained condition, free of standing surface water.

2. PRODUCTS**2.1 MATERIALS**

- a. All granular materials shall be crusher run limestone and satisfy the requirements of OPSS 1010.
- b. Excavated material existing on site may be suitable to use as fill provided it is free of organic materials, roots, and stones greater than 75mm diameter, at discretion of consultant.

3. EXECUTION**3.1 EXCAVATION**

- a. Excavate to the extent, elevations, and depth required for the completion of the Work.
- b. Do not excavate outside of slopes or below established grades unless directed by the Consultant.
- c. Should the Contractor unless ordered by the Consultant, excavate below grade, he shall be required to backfill such excavations with suitable materials and compact it in 150mm layers or less, for which no payment will be made for the obtaining, hauling, handling, placing or compaction of such backfill material.
- d. Bottoms of excavations are to be dry undisturbed soil, level and free from loose or organic matter. Remove soft, wet, or unconsolidated ground, muskeg, quicksand, and organic matter encountered in excavating. Fill void with well compacted clean dry fill of quality as specified herein.
- e. If removal of earth causes displacement of adjacent earth, the earth so disturbed shall be removed and replaced with compacted crushed limestone materials, at no additional cost to the Owner.
- f. Keep bottom of excavations clean and clear of loose materials.
- g. If the excavations reveal seepage zones, springs, or other unexpected sub-surface conditions which may necessitate revisions or additions to any drainage system, inform the Consultant immediately so that remedial action can be taken.
- h. Transport dusty materials in covered haulage vehicles.
- i. Public roadways shall be kept clean and free of mud and debris.
- j. Have sub-base inspected to ensure all organic matter and fill materials have been removed, where required.

3.2 BACKFILLING

- a. Do not commence backfilling until areas of work to be backfilled have been inspected and approved by the Consultant.
- b. Areas to be backfilled shall be free of debris, snow, ice, water, or frozen ground. Backfill materials shall not be frozen or contain ice, snow, or debris.
- c. Prior to placing fill materials, compact existing subgrade to obtain same compaction as specified for fill. Remove “soft” material and fill with approved material.
- d. Maintain proper moisture content to fill to ensure specified compaction density.

- e. Place and compact fill materials in continuous horizontal layers not exceeding 150mm in loose depth. Use methods which prevent disturbing or damaging of buried services. Make good any damage caused by this Section at no cost to the Owner.
- f. Compact fill to specified compaction density with a heavy vibrating roller. Compact fill where heavy roller equipment cannot approach with mechanical tampers to equivalent density.

3.3 GRANULAR COURSES

- a. Place, grade, and compact to ninety-eight percent (98%) Standard Procter Density Modified Dry Density, 19mm crusher run limestone, 50mm crusher run limestone courses to the depths indicated on the Drawings. Maintain optimum moisture content.
- b. Maintain grading tolerance for 50mm crusher run stone sub-base course to plus or minus 30mm.
- c. Place, grade, and compact to ninety-eight percent (98%) Standard Procter Density Modified Dry Density, OPSS Granular 'A' (20mm CRL), OPSS Granular 'B' (50mm CRL) courses to the depths indicated on the Drawings. Maintain optimum moisture content.
- d. Maintain grading tolerance for OPSS Granular 'B' (50mm CRL) sub-base course to plus or minus 30mm.
- e. Refer to OPSS 1010 Standards.

3.4 COMPACTION

- a. If during progress of Work, tests indicate fill does not meet specified requirements, remove defective fills, replace and retest at no extra cost.
- b. Where tests show the compaction does not meet the specified requirement, carry out further compaction in a manner directed by the Consultant, and pay for further testing to establish proof of the specified compaction.
- c. For backfill compaction, tests will be made at every 0.5m max. depth, after each three 150 mm lifts have been placed.
- d. Co-operate with the Consultant and testing company by scheduling the placing and the compacting of backfill so tests can be progressively taken.

3.5 SURPLUS MATERIAL

- a. Remove material unsuitable for fill, grading or landscaping from site as directed by the Consultant.
- b. Include cost of trucking material from site and payment of fees at dump site.
- c. An approved dump site must be used for disposal of all excess material.

3.6 ADJUSTMENT

- a. Correct and make good where settlement has occurred during the warranty period of the Contact.

- b. Make up settlement of backfilling as soon as possible, so that regular traffic in and around work will not be inconvenienced.
- c. Fill depressions to restore the correct grade after a period adequate to reveal settlement have passed. Assume responsibility for making good any subsequent settlement of such fill. Pay costs involved in making good paving, sodding, sidewalks, curbs and all other surfaces damaged by such settlement and subsequent restoration.

SECTION 02210 – SITE GRADING

1. GENERAL

1.1 SITE CONDITIONS

- b. Known underground and surface utility lines and buried objects may be on site plan. No guarantee is given of completion or accuracy. Contractor to establish exact locations before commencing with work.

1.2 PROTECTION

- a. Prevent damage to fencing, trees, landscaping, natural features, bench marks, existing building, existing pavement, utility lines, site appurtenances, water courses which are to remain. Make good any damage.

2. PRODUCTS

2.1 MATERIALS

- a. Excavated or graded material to be approved before use as fill for grading work. Protect such approved material from contamination.

3. EXECUTION

3.1 REMOVAL OF TOPSOIL

- a. Remove topsoil from areas to be excavated, paved, re-graded. Strip topsoil when dry enough to prevent contamination with sub-grade material.
- b. Do not handle topsoil in wet or frozen condition. Stockpile topsoil on site as direct by the Consultants. Piles are not to exceed 1.5m (60”) in height.

3.2 GRADING

- a. Rough grade to levels, profiles, and contours allowing for surface treatment as indicated.
- b. Rough grade to the following depths below finished grade:
 - i. Sod 200mm (8”)
 - ii. Concrete walks 300mm (12”)
 - iii. Unit paving 300mm (12”)
 - iv. Light duty asphalt paving 300mm (12”)
- c. Slope rough grade away from building 1:50 minimum.

- d. Prior to placing fill over existing ground, scarify surface to depth of 150mm (6"). Moisture content of fill and existing surface to be approximately the same to facilitate bonding.
- e. Compact filled and disturbed areas to Standard Proctor Densities to Section 02260.
- f. Do not disturb soil within branch spread of trees or shrubs to remain.

3.3 SURPLUS MATERIAL

- a. Remove material unsuitable for fill, grading or landscaping from site.
- b. Remove surplus material from site.

SECTION 02245 – PLANTING BED AND SODDING TOPSOIL

1. GENERAL

1.1 QUALITY ASSURANCE

- a. Obtain approval of the topsoil in writing from the Consultant before work begins.

1.2 PRODUCT DELIVERY, STORAGE AND HANDLING

- a. Do not spread topsoil in a frozen or wet condition.

1.3 JOB CONDITION

- a. Report in writing to the Consultant prior to commencing work any condition or defects encountered on site, upon which the work of this Section depends, and which may adversely affect the performance of the work.
- b. Do not commence work until such condition or defects have been investigate and corrected.
- c. Commencement of work implies acceptance of surface conditions and no claims for damages or extra work will be accepted, except where conditions cannot be determined prior to construction.

2. PRODUCTS

2.1 MATERIALS

- a. Topsoil: a fertile, friable, natural loam, consisting of neither a heavy clay not a very light sandy nature. The soil shall be comprised of approximately 45% sand, 35% silt, 20% clay and pH value of between 6 and 7 capable of sustaining vigorous plant growth. To be free of all debris over 25mm diameter and reasonable free of weeds (as determined by Consultant.)

3. EXECUTION

3.1 PREPARATION

- a. Fine grade the subgrade, eliminating uneven areas and filling low spots. Remove all debris and all subsoil that has been contaminated with toxic materials as directed by the consultant.

- b. Compact finished subgrade to 95% Standard Proctor Dry Density for areas under planting.

3.2 GRADING

- a. Spread dry topsoil during dry weather over approved, dry, unfrozen subgrade.
- b. Exterior foundation walls shall extend not less than 150 mm above finished ground level.
- c. Fine grade and loosen topsoil. Eliminate rough spots and low areas to ensure positive drainage. Prepare loose friable bed by means of cultivation and subsequent raking.
- d. Make good all damages caused by topsoil spreading activities.
- e. Topsoil depths: Planting beds 18” – 450mm minimum
- f. Topsoil depths: Sodded area – 6” 150mm minimum.

SECTION 02260 – TOPSOIL AND FINISHED GRADING

1. GENERAL

1.1 HANDLING

- a. Topsoil shall not be handled or delivered while in a frozen or near water saturated condition.

2. PRODUCTS

2.1 MATERIALS

- a. Topsoil: a fertile, friable, natural loam, consisting of neither a heavy clay nor a very light sandy nature. The soil shall be comprised of approximately 45% sand, 35% silt, 20% clay and pH value of between 6 and 7 capable of sustaining vigorous plant growth. To be free of all debris over 25mm diameter and reasonable free of weeds (as determined by Consultant.)
- b. Peat Moss: decomposed plant material, fairly elastic and homogeneous, free of decomposed colloidal residue, wood, sulphur and iron containing minimum 60% organic matter by weight and moisture content, not exceeding 15%. Shredded particles may not exceed 6mm in size. Minimum pH value of peat 4.5, maximum 6.0.
- c. Bone Meal: raw bone meal finely ground with a minimum analysis of 3% nitrogen and 20% phosphoric acid.
- d. Lime: Ground agricultural limestone containing minimum 85% of total carbonates.
- e. Sand: Clean, washed, coarse, free from clay, shale and organic matter.
- f. Mulch: Shredded pine mulch (SPM), free of twigs, leaves, toxins or allergens;
 - i. SPM as distributed by Gro-Bark, Waterloo, 1-888-gro-bark.
 - ii. SPM, as distributed by Fisher’s Landscape Depot, London, 519-474-3429
 - iii. SPM as distributed by Baseline Nurseries, London, 519-657-1265.
- g. Mulch: Engineered wood fiber (EWF);

- i. FibarBulk, as distributed by ABC Recreation Ltd., Paris, 1-800-267-5753
 - ii. WoodCarpet, as distributed by KSL Design, Brantford, 1-877-757-7529
 - iii. Fibertop, as distributed by Gro-Bark, Waterloo, 1-888-gro-bark
 - iv. Fibertop, as distributed by Fisher's Landscape Depot, London, 519-474-3429.
 - v. Fibertop, as distributed by Baseline Nurseries, London, 519-657-1265.
 - vi. ParkMat, as distributed by Townsend Lumber Inc., Tillsonburg, 519-842-7391
- h. Base Material (for Sheds): High Performance Bedding™ (HPB).

2.2 SOIL MIXTURES

- a. Bone Meal: Incorporate bone meal into planting soil at a rate of 3kg/m³ of soil mixture.
- b. Amendments: Apply lime, sulphur or other amendment at a rate determined from soil same test. Thoroughly mix amendment into topsoil and planting soil.

3. EXECUTION

3.1 PREPARATION

- a. Grade sub-grade, eliminating uneven areas and low spots, ensuring positive drainage. Remove debris, roots, branches, stones in excess of 50mm diameter and other deleterious material. Remove subsoil that has been contaminated with oil, gasoline, or calcium chloride. Dispose of removed materials off site, and as directed by the Consultant.
- b. Cultivate entire area which is to receive topsoil to depth of 100mm. Repeat cultivation in those areas where equipment used for hauling and spreading has compacted sub-grade.
- c. Mixing and screening of planting soil to be done on site in an approved area. No mixing to be done on paved areas.

3.2 PLACEMENT OF SOIL

- a. Do not spread topsoil until Consultant has inspected and approved sub-grade.
- b. Spread topsoil with adequate moisture in uniform layers during dry weather over approved, dry, unfrozen sub-grade.
- c. Apply topsoil up to finished grade to the following minimum depths:
 - i. 150mm (6") for seeded/sodded areas
 - ii. 300mm (12") for perennial beds
 - iii. 450mm (18") for shrub beds
- d. Remove stones, roots, grass, weeds, construction materials, debris and foreign non-organic objects from topsoil.
- e. Equally spread topsoil around trees and plants.

3.3 FINISH GRADING

- a. Fine grade mechanically entire top soiled area to contours as indicated. Eliminate rough spots and low areas to ensure positive drainage.
- b. Exterior foundation walls shall extend not less than 150 mm above finished ground level.
- c. Fine grade and loosen topsoil prior to seeding/sodding. Eliminate rough spots and low areas to ensure positive drainage. Prepare loosen friable soil bed by means of discing and subsequent raking. Roll lightly and rake where topsoil is too loose.
- d. Roll topsoil with a 70kg – 90kg handroller, minimum 900mm (36”) wide, to compact and retain surface.
- e. Leave surface smooth, uniform, firm against deep foot printing, with a fine loose surface texture.

SECTION 02630 – CONCRETE WALKS AND CURBS**1. GENERAL****1.1 WARRANTY**

- a. Provide a written warranty signed and issued in the name of the Owner and Project stating that the Contractor warrants that the exterior concrete work of this Section against surface spalling, but for a period of three years.

2. PRODUCTS**2.1 MATERIALS**

- a. Cement/Concrete
- b. Air Entrainment
- c. Reinforcement
- d. Premould Joint Fillers: 13mm thick by full depth and width, bituminous impregnated fibre board.
- e. Joint Sealer: Tremco THC 900 self leveling urethane, P.R.C. Canada Inc., Rubber Caulk 600.
- f. Liquid Curing Agent: MASTERSEAL by Master Builders, PROMULSION 100 by ConChem.

3. EXECUTION**3.1 EXAMINATION**

- a. Before work commences ensure that subgrading and filling has been correctly completed and that the subgrade is satisfactory in all aspects for placing of pavements. Report to Consultant and deficiencies before proceeding with work.
- b. Verify that substrate densities, as may be specified have been attained.

3.2 INSTALLATION

- a. Concrete Work:

- i. The compressive strength of the concrete after 28 days shall be 30MPa with 5-8% air entrainment.
- b. Concrete Walks:
 - i. Lay concrete walks 100mm (4") thick on minimum 150mm (6") thick base of granular A compacted to 95% S.P.D.D.
 - ii. Finish wearing surfaces of walks with wood float or as directed by Consultant. Round off edges of walks with an edging tool.
 - iii. Score surface of walks as indicated on Drawings using proper tool or as directed by Consultants.
 - iv. Slope concrete walks to one side, away from buildings, 1:40, for drainage or as indicated on Drawings.
- c. Concrete Curbs:
 - i. On-site curb design to be as indicated on Drawings, on 300mm (12") minimum Type 2 fill (Granular B) compacted to 95% S.P.D.D.
- d. Expansion Joints:
 - i. Provide expansion joints filled with 13mm (0.5") joint filler at the following locations:
 - 1. Where shown and noted on Drawings;
 - 2. At maximum 4500mm (180") intervals in sidewalks and concrete paved areas;
 - 3. Where two concrete walks intersect or meet;
 - 4. Where a concrete walk or pavement meets a building or curb;
 - 5. In straight or curved concrete curbs at 4500mm (180") intervals and at ends of circular curbs; full width and depth of curbs.
 - ii. Seal expansion joints where concrete abuts building at entrances.
- e. Contraction Joints:
 - i. Provide contraction joints in sidewalks at locations shown on Drawings or at approximately 1500mm (60") intervals.
 - ii. Form joints by scoring concrete with 'T' shaped tool providing a score 25mm (1") deep.
 - iii. Cure concrete surface using a liquid membrane curing agent. Apply in strict accordance with manufacturer's recommendations.

SECTION 02640 – HOT MIX ASPHALT PAVING

1. GENERAL

1.1 REFERENCE STANDARDS

- a. Ontario Provincial Standard Specifications as follows:
 - i. OPSS 310, latest revised edition, "Construction Specification for Hot Mixed, Hot Laid Asphaltic Concrete".
 - ii. OPSS Form 1150, latest revised edition, "Material Specification for Hot Mixed, Hot Laid Asphaltic Concrete".

1.2 ENVIRONMENTAL CONDITIONS

- a. Asphalt shall be laid only when base is dry and weather conditions are suitable.
- b. H.L.8 Asphaltic Concrete shall be laid at minimum temperature of 2 C (35 F) and rising.
- c. H.L.3 Asphaltic Concrete shall be laid at minimum temperature of 8 C (45 F) and rising.

1.3 SPECIAL PROTECTION

- a. Barricade paved surfaces from traffic for 72 hours and until surfaces are ready for normal traffic.

1.4 WARRANTY

- a. Provide a written warranty signed and issued in the name of the Owner and Project stating that the Contractor warrants that the hot mix asphalt paving of this Section against surface spalling but for a period of three years.

2. PRODUCTS**2.1 MATERIALS**

- a. Granular Base
- b. H.L.8 Asphaltic Concrete Base Course: To OPSS 1150.
- c. H.L.3 Asphaltic Concrete Surface Course: To OPSS 1150.
- d. Marking Paint: To OPSS 1710 "Material Specification for Coning and Non-Coning Traffic Paint" colour, white.

3. EXECUTION**3.1 GRANULAR SUB-BASE AND BASE**

- a. Carefully lay out areas to be paved to required lines and levels.
- b. Extend granular base course a 300mm (12") minimum beyond the edge of paved areas; 150mm (6") minimum beyond walks and athletic facilities.

3.2 INSTALLATION OF ASPHALT PAVING

- a. Over the compacted Type 1 fill (granular "A"), apply layer of H.L.8 compacted to OPSS 310.
- b. Finish off entire areas to be paved with layer of H.L.3 compacted as outlined in OPSS 310.
- c. Temperature of asphalt shall not be less than 120°C (245°F) after spreading and prior to initial rolling.
- d. Use mechanical spreaders and compact using rollers of sufficient size and weight as specified by OPSS.
- e. Maintain specified slopes, elevations and "crowns" as shown on the site plan and in accordance with good construction practice.
- f. Neatly slope shoulders of Type 1 (granular "A") from asphalt at 1:50 away from paving.

3.3 PATCHING AND TYING IN

- a. If and when patching is required, the area to be patched shall be saw-cut to its entire thickness and repaved making sure that the edges are primed and compacting is equal to that outlined in approved grades

3.4 PROTECTION AND CLEAN-UP

- a. Exercise care in paving operations adjacent to curbs, lighting standards, sidewalks, etc., so as not to damage these items. Make good any damaged items to the satisfaction of the Architect.
- b. At the completion of the work of this Section, remove from the site all tools, equipment, surplus materials and debris.

3.5 PAVEMENT MARKINGS

- a. Lay out lines as indicated on drawings. Use a mechanical equipment application. End limit of each line to have clean, sharp 90° corners with no over-spray fogging. Thickness of paint application to be consistent throughout. Under-sprayed lines shall be repainted.

SECTION 02641 – HOT MIX ASPHALT PAVING – LIGHT DUTY

1. GENERAL

1.1 REFERENCE STANDARDS

- a. Ontario Provincial Standard Specifications as follows:
 - i. OPSS 310, latest revised edition, "Construction Specification for Hot Mixed, Hot Laid Asphaltic Concrete".
 - ii. OPSS Form 1150, latest revised edition, "Material Specification for Hot Mixed, Hot Laid Asphaltic Concrete".

1.2 ENVIRONMENTAL CONDITIONS

- a. Asphalt shall be laid only when base is dry and weather conditions are suitable.
- b. H.L.3 Asphaltic Concrete shall be laid at minimum temperature of 8 C (45 F) and rising.

1.3 SPECIAL PROTECTION

- a. Barricade paved surfaces from traffic for 72 hours and until surfaces are ready for normal traffic.

1.4 WARRANTY

- a. Provide a written warranty signed and issued in the name of the Owner and Project stating that the Contractor warrants that the hot mix asphalt paving of this Section against surface spalling but for a period of three years.

2. PRODUCTS

2.1 MATERIALS

- a. Granular Base
- b. H.L.3 Asphaltic Concrete Course: To OPSS 1150.
- c. Marking Paint: To OPSS 1710 "Material Specification for Coning and Non-Coning Traffic Paint" colour, white.

4. EXECUTION**3.1 GRANULAR SUB-BASE AND BASE**

- a. Carefully lay out areas to be paved to required lines and levels.
- b. Extend granular base course a 300mm (12") minimum beyond the edge of paved areas; 150mm (6") minimum beyond walks and athletic facilities.

3.2 INSTALLATION OF ASPHALT PAVING

- a. Over the compacted Type 1 fill (granular "A"), apply layer of H.L.3 compacted to OPSS 310.
- b. Temperature of asphalt shall not be less than 120°C (245°F) after spreading and prior to initial rolling.
- c. Use mechanical spreaders and compact using rollers of sufficient size and weight as specified by OPSS.
- d. Maintain specified slopes, elevations and "crowns" as shown on the site plan and in accordance with good construction practice.
- e. Neatly slope shoulders of Type 1 (granular "A") from asphalt at 1:50 away from paving.

3.3 PATCHING AND TYING IN

- a. If and when patching is required, the area to be patched shall be saw-cut to its entire thickness and repaved making sure that the edges are primed and compacting is equal to that outlined in approved grades

3.4 PROTECTION AND CLEAN-UP

- a. Exercise care in paving operations adjacent to curbs, lighting standards, sidewalks, etc., so as not to damage these items. Make good any damaged items to the satisfaction of the Architect.
- b. At the completion of the work of this Section, remove from the site all tools, equipment, surplus materials and debris.

3.5 PAVEMENT MARKINGS

- a. Lay out lines as indicated on drawings. Use a mechanical equipment application. End limit of each line to have clean, sharp 90° corners with no over-spray fogging. Thickness of paint application to be consistent throughout. Under-sprayed lines shall be repainted.

SECTION 02951 – TREES, SHRUBS, AND GROUNDCOVER**1. GENERAL****1.1 QUALITY ASSURANCE**

- a. Planting work is to be carried out by experienced personnel under the direction of a skilled foreman. Exceptions may apply for student and parent groups.

1.2 PRODUCT DELIVERY, STORAGE AND HANDLING

- a. Supply manufactured items such as fertilizer, bonemeal, mulch, etc., in standard containers, clearly indicating contents, weight, component analysis, and the name of the manufacturer.
- b. Store manufactured materials, subject to deterioration, in a weatherproof place on site and in such a manner that their effectiveness is not impaired.
- c. Supply plant material as specified on the plant list.
- d. Provide all material, specified "B. & B." (balled and burlapped) on the plant list, with a solid, earth root ball, wrapped in burlap.
- e. Do not use plant material on which the root ball has been cracked or broken preparatory to or during the planting process.
- f. Cut all roots cleanly when digging plants. Split roots are not acceptable. Roots should be cut even with the edges of the root ball.
- g. Protect all plant material from damage and breakage. Protect all parts of the plant material from drying out from the time of digging until they are installed.
- h. Do not transport plant material in an open truck unless it is adequately protected from sun and wind.
- i. Carefully tie in all branches before transporting.
- j. Pad all points of contact between plant material and equipment
- k. Heel in any plant material that cannot be planted during the current day's operations.
- l. Keep all roots and root balls moist prior to planting.

1.3 JOB CONDITIONS

- a. Proceed with planting operations only during suitable weather conditions.

1.4 SUBSTITUTIONS

- a. Supply and install plant material as specified on the plant list. Substitutions with other plant material will not be allowed without written approval of the Consultant.

1.5 INSPECTION

- a. Make plant material available for inspection at source by the Consultant before installation and inform him/her as to when the inspection can take place.
- b. Approval of plant material at source will not impair the right of the Consultant to inspect plants upon arrival on the site or during the course of construction and to reject plants which have been damaged, or which, in any way do not conform to the specifications.
- c. Give timely notice in writing to the Consultant when acceptance is required.
- d. If partial acceptance is desired, give notice to the Consultant.
- e. Partial acceptance will be given when planting work has been delayed due to circumstances beyond the control of the Contractor or where planting would not

be in accordance with good horticultural practices and would jeopardize the performance of the Work and plants.

- f. Final inspection of all plant material will be made at the end of the specified guarantee period. All plants must be in a healthy growing condition at the time of this inspection.
- g. No plant materials will be accepted that have been sprayed with neonicotinoids or organophosphates.

1.6 MAINTENANCE

- a. Maintain all plant material from the time of planting until the date of acceptance.
- b. Maintenance shall include all measures necessary to establish and maintain all plants in vigorous and healthy growing condition, including but not limited to:
 - i. Cultivating and weeding of planting beds and tree pits. Use herbicides in accordance with the manufacturer's directions. Make good any damage, resulting from herbicide use at no extra cost.
 - ii. Watering when required and in sufficient quantities to saturate the root system.
 - iii. Pruning, including the removal of the dead or broken branches.
 - iv. Disease and insect control when required. Use chemical methods in accordance with the manufacturer's directions. Make good any damage at no extra cost.
 - v. Keep all accessories in good condition and properly adjusted. Repair or replace accessories when required at no extra cost.
 - vi. At the time of acceptance, all materials must be in a healthy, vigorous growing condition. Beds and tree pits must be freshly cultivated and free of weeds, rubbish and debris.

1.7 WARRANTY

- a. Provide a written warranty signed and issued in the name of the Owner and Project stating that the Contractor warrants the products and installation for 1 years.
- b. During the warranty period replace all material that is dead or not in satisfactory, healthy growing state or which does not meet the requirements of the specifications, at no extra cost to the contract. Final determination of the acceptability of the plants will be made by the Consultant
- c. All replacements must be plants of the same size and species as shown on the plant list, supplied and planted in accordance with the drawings and specifications.

2. PRODUCTS

2.1 PLANT MATERIAL

- a. All plant material must be nursery grown and meet the specifications set out in the latest Guide Specifications for Nursery Stock prepared by the Canadian Nursery

Trades Association (C.N.T.A.) for size, height, spread, grading, quality and method of cultivation.

- b. Nomenclature of specified plants shall conform to the International Code of Nomenclature for Cultivated Plants and the latest edition of Standardized Plant Names.
- c. Any plant material not conforming to 2.1.1. above will be designated as collected plants.
- d. Collected plants may only be used when approved in writing by the Consultant.
- e. Plant Material: true to name and type, structurally sound, well branched; healthy and vigorous and free from disease, insect infestations, rodent damage, sun scald, frost cracks and other abrasions to the bark and densely foliated with healthy, well developed root system. Pruning wounds must show vigorous bark growth on all edges and all parts must show live and green cambium tissue when cut.
- f. All material must conform to the sizes shown on the plant list except that larger material may be used when approved by the Consultant. Use of larger plants will not increase the contract price.
- g. Plant material sizes must conform to the following standards:
 - i. Caliper – diameter of the trunk measured 300mm above the normal grade around the plant.
 - ii. Height – measured from the normal grade around the plant to the top of the main foliage mass.
 - iii. Spread – the diameter of the main foliage mass, at its widest point.

2.2 OTHER MATERIAL

- a. Anchor stakes: 50mm x 50mm x 2400mm wood stakes, pointed at one end, 2 per tree or as indicated on supplied details.
- b. Twine.
- c. Trunk guards: 150mm (6") diameter PVC or approved alternate, 600mm (24") high.

3. EXECUTION

3.1 PREPARATION

- a. Obtain the approval of the Consultant of all planting excavations as outlined.

3.2 INSTALLATION OF PLANT MATERIAL

- a. Ensure width of all planting excavations is 300 mm (12") greater on all sides than the width of the root ball.
- b. Place plant plumb in the centre of the planting pit with a minimum of 150 mm (6") of compacted planting soil mixture under the root ball. Face the plant to give the best appearance or relationship to adjacent structures. Cut away ropes and fold down top 1/3 of the root ball burlap into the pit.

- c. Backfill with planting soil in 150 mm (6") layers and firmly tamp each layer to ensure the plant retains its orientation. Ensure no air pockets remain around the roots.
- d. Thoroughly water when hole is 1/2 full of tamped soil mixture, and again when the operation is complete.
- e. Except for plants in planting beds, construct an earth saucer around each plant equal to the diameter of the rootball and 50 mm (2") minimum depth to retain water around the roots.

3.3 INSTALLATION OF PLANT ACCESSORIES

- a. Stake or guy all trees as outlined in the drawings and details.
- b. Install trunk guards as outlined in the drawings and details.

3.4 PRUNING

- a. Prune plant after planting to compensate for root loss and in such a manner that the natural shape and character is retained.
- b. Do not cut leader
- c. Use only clean and sharp tools.

3.5 CLEAN UP

- a. At the completion of the planting operations, remove all surplus material from the site at no extra cost.
- b. Make good all damage resulting from planting operations at no extra cost.

SECTION 06110 – ROUGH CARPENTRY

1. GENERAL

1.1 WARRANTY

- a. Provide a written warranty signed and issued in the name of the Owner and Project stating that the Contractor warrants all workmanship for minimum 2 years.

2. PRODUCTS

2.1 LUMBER MATERIAL

- a. Except as indicated or specified otherwise, lumber shall be softwood, S4S, moisture content (MC) not greater than 19% at time of installation, in accordance with following standards:
 - i. CSA 0141, latest revised edition
 - ii. CAN/CSA Z-614-14
 - iii. NLGA Standard Grading Rules for Canadian Lumber, latest revised edition and supplement
- b. Machine stress-rated lumber is acceptable for all purposes.

- c. Board sizes: Eastern Spruce species, NLGA construction grade
- d. Dimension sizes: Jack Pine species, NLGA construction grade

2.2 SOURCE QUALITY CONTROL

- a. Identify lumber by grade stamp of an agency certified by Canadian Lumber Standards Administration Board.

2.3 PANEL MATERIAL

- a. Douglas Fir plywood, exterior grade.

2.4 FASTENING AND HARDWARE

- a. In accordance with Part 4 of OBC latest edition as supplemented by following requirements except where specific type is indicated.
- b. Nails Spikes and Staples: To Part 4 of OBC latest revised edition and as follows:
 - i. Use common spiral nails and spiral spikes except where indicated otherwise.
 - ii. Use hot galvanized finish steel for exterior work, interior highly humid areas and for pressure-preservative and fire-retardant treated lumber except where indicated otherwise.
- c. Bolt, Nut, Washer, Screw and Pin Type Fasteners: With hot-dip galvanized finish to CSA G164-11965, latest revised edition, for exterior work, interior highly humid areas and for pressure-preservative and fire-retardant treated lumber, elsewhere with primer paint finish where installed on sight-exposed surfaces.
- d. Use surface fastenings of following types, except where specific type is indicated.
 - i. To hollow masonry, plaster and panel surfaces use toggle bolt.
 - ii. To solid masonry and concrete use expansion shield with lag screw, jute fibre or lead plug with wood screw.
- iii. To structural steel use bolts through drilled hole, or welded stud-bolts or power driven self-drilling screw, or welded stud-bolt.

2.5 WOOD PRESERVATIVE

- a. Surface-Applied Wood Preservative: Copper naphthenate base, water repellent wood preservative, colored.

3. EXECUTION

3.1 APPEARANCE GRADE MATERIALS

- a. Install lumber materials designated "Appearance" (A) Grade so that grade-marks and other defacing marks are not visible on surfaces specified to be left unfinished or to be finished with translucent or transparent type coating. Surface cutting or sanding to remove such marks is acceptable only in locations where defacement will not be evident after finishing.

3.2 ROUGH BUCKS, NAILERS, FURRING

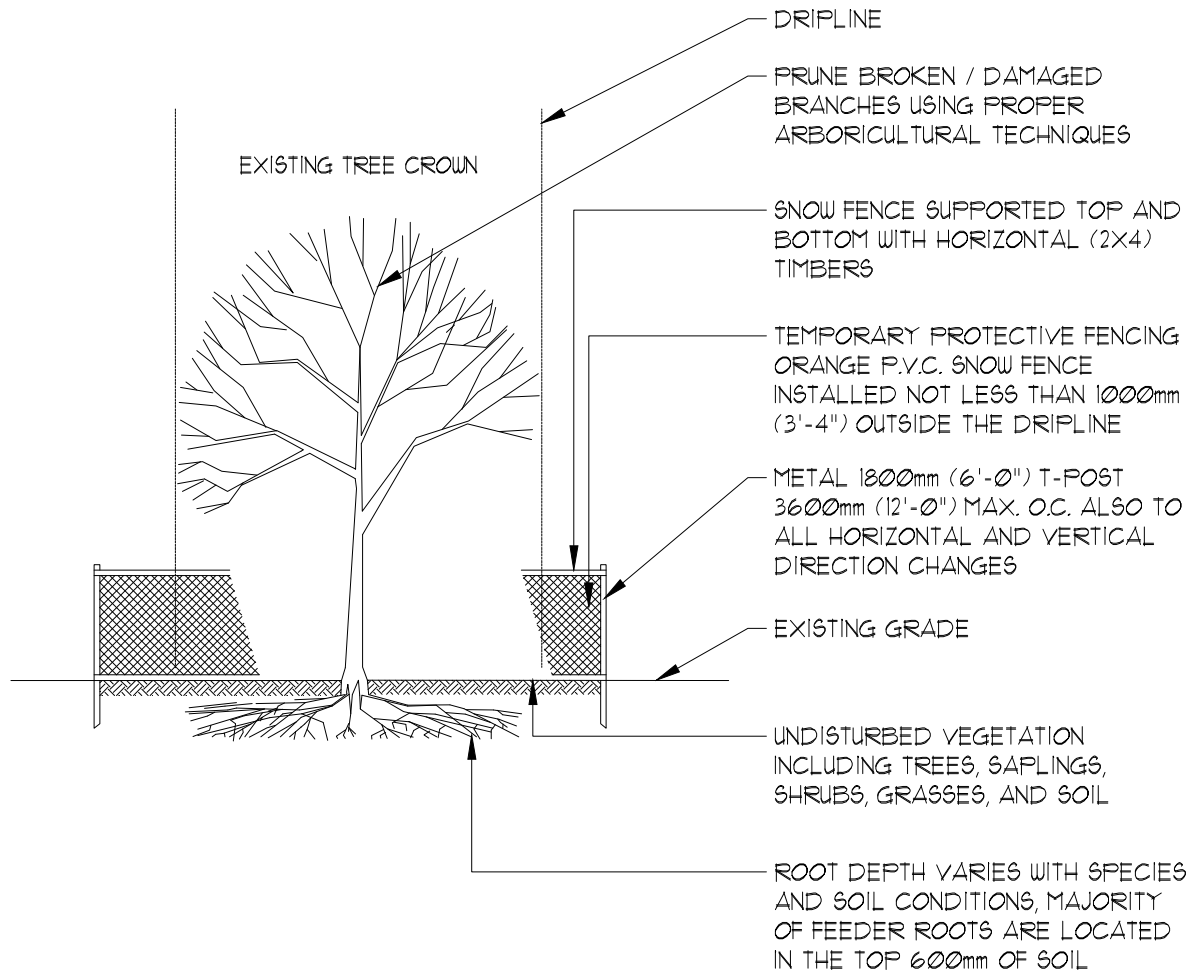
- a. Countersink bolts where necessary to provide clearance for other work.

3.3 SURFACE-APPLIED WOOD PRESERVATIVE

- a. Treat surfaces of material with wood preservative, before installation. Wherever possible apply preservative after materials have been cut and fit to size
- b. Apply preservative by dipping, or by brush or spray to completely saturate and maintain wet film on surface for minimum 3 minute soak on lumber and one minute soak on plywood.
- c. Re-treat surfaces exposed by cutting, trimming or boring with liberal brush application of preservative before installation.

END OF SPECIFICATIONS

PVC SNOW FENCE

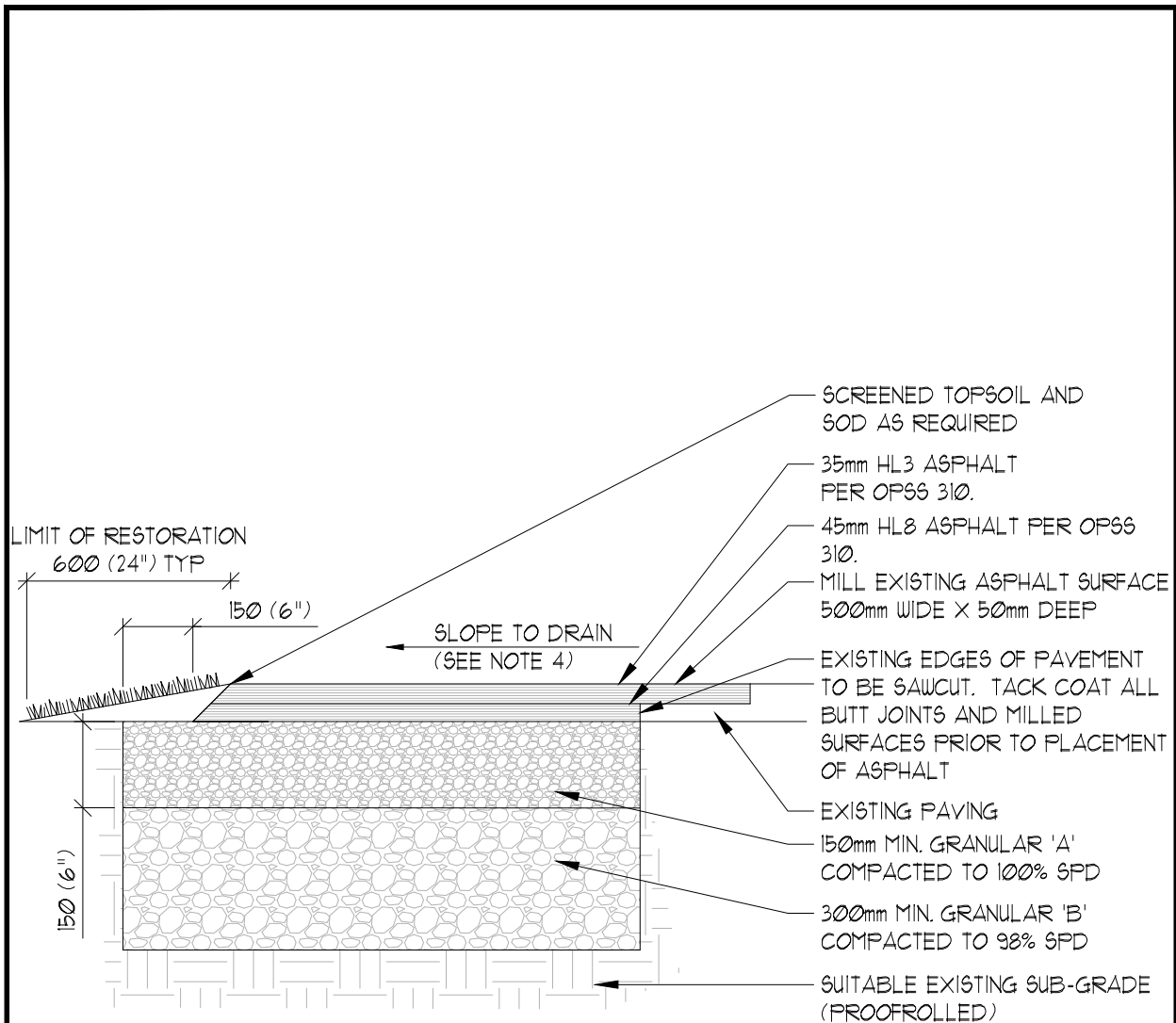


NOTES:

1. EXISTING TREES ARE TO BE PROTECTED FROM CONSTRUCTION WITH THE INSTALLATION OF A 1200mm (4'-0") HIGH SNOW FENCE, AT NOT LESS THEN 1000mm (3'-4") FROM THE EXISTING DRIPLINE, HELD IN PLACE WITH 1800mm (6'-0") 'T-BAR'.
2. THE BARRIER IS TO BE INSTALLED PRIOR TO ANY CONSTRUCTION AND MUST REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED.
3. ALL SUPPORTS AND BRACING SHOULD BE INSIDE THE TREE PROTECTION ZONE. ALL SUCH SUPPORTS SHOULD MINIMIZE DAMAGING ROOTS IN THE TREE PROTECTION ZONE.
4. NO CONSTRUCTION ACTIVITY, GRADE CHANGES, SURFACE TREATMENT, OR EXCAVATION OF ANY KIND IS PERMITTED WITHIN THE TREE PROTECTION ZONE.
5. NO MOVEMENT OF EQUIPMENT, STORAGE OF BUILDING SUPPLIES, CLEANING OR EQUIPMENT, OR DUMPING OF SOLVENTS, GASOLINE, ETC., MAY OCCUR WITHIN THIS FENCE LINE.
6. WHERE HIGH QUALITY SPECIMENS OCCUR ADJACENT TO AREAS SUBJECTED TO INTENSIVE CONSTRUCTION ACTIVITY, WOODEN CRIBBING SHOULD BE INSTALLED TO PROTECT TRUNKS FROM DAMAGE IN THE EVENT THAT HEAVY EQUIPMENT BREAKS DOWN THE SNOW FENCING.

U.01 TEMP. TREE PROTECTION BARRIER - N.T.S.





SECTION

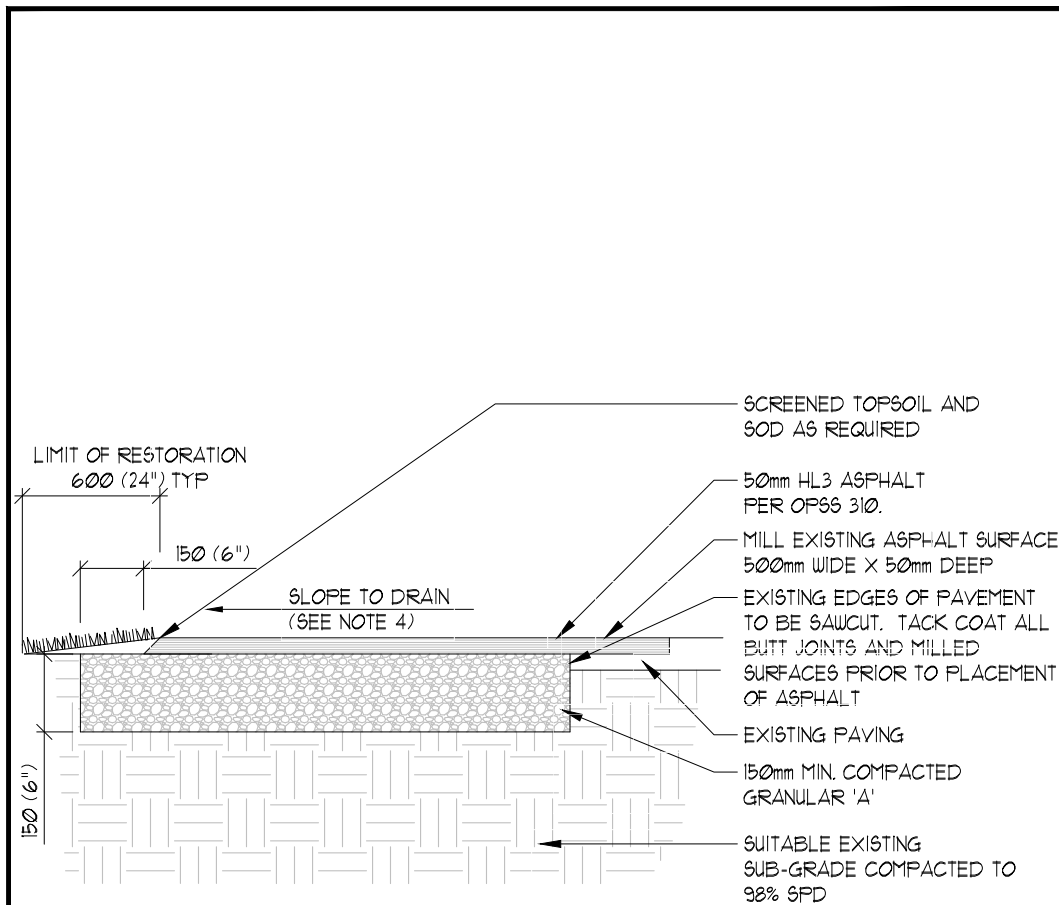
NOTES:

1. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
2. ASPHALT SURFACE TO BE ONE (1) 50m LAYER (AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE WITH OPSS 310. ASPHALT EDGE TO BE 45° HAND TAMPED SMOOTH EDGE WITHOUT LATERAL DEVIATION.
3. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH OPSS 1010.
4. FINISHED SLOPE ON SURFACE TO BE 1% CROWNED OR CROSS-SLOPED TO SUIT EXISTING AND/OR PROPOSED GRADES.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES.

ASPHALT PAVING

N.T.S.





SECTION

NOTES

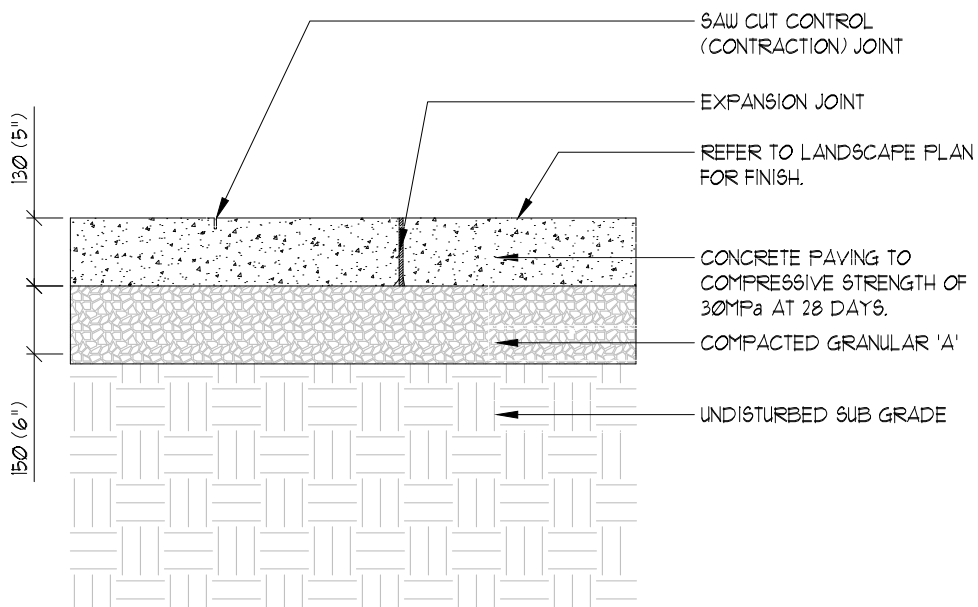
1. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
2. ASPHALT SURFACE TO BE ONE (1) 50mm LAYER (AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE WITH OPSS 310. ASPHALT EDGE TO BE 45° HAND TAMPED SMOOTH EDGE WITHOUT LATERAL DEVIATION.
3. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH OPSS 1010.
4. FINISHED SLOPE ON SURFACE TO BE 1% CROWNED OR CROSS-SLOPED TO SUIT EXISTING AND/OR PROPOSED GRADES.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES.

S.08 TYPICAL ASPHALT PAVING

N.T.S.

□ LIGHT D□TY





SECTION

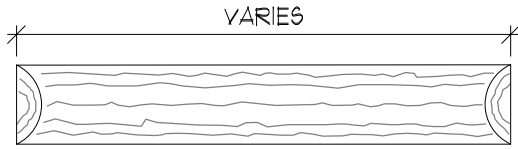
NOTES

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
3. SAW CUT CONTROL JOINTS AT MAX SPACING 1500mm
4. EXPANSION JOINTS AT MAX SPACING 4500mm
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES.

S.0 TYPICAL CONCRETE PAVING

N.T.S.



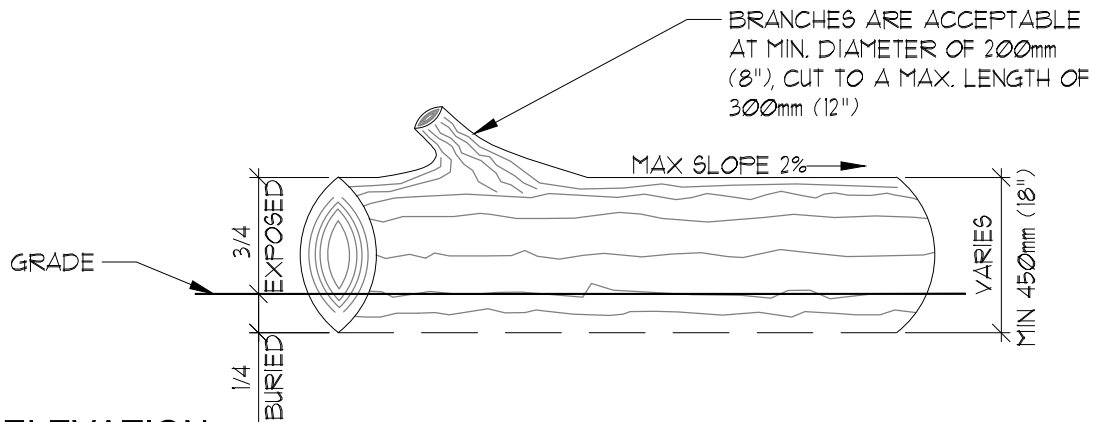


ARRANGEMENT OF LOGS
TO VARY - REFER TO
LANDSCAPE PLAN

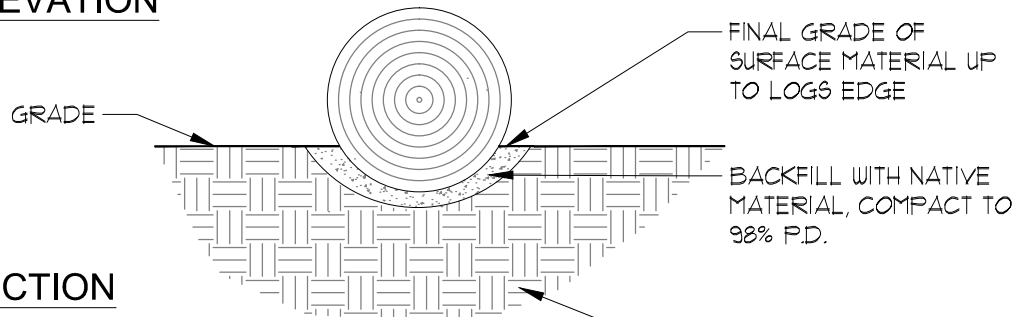


DESIRED LOOK.
NOTE: REFER TO LANDSCAPE PLANS FOR
IMPACT ATTENUATION SURFACING REQUIREMENTS.

PLAN



ELEVATION



SECTION

NOTES:

1. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
2. CONTRACTOR TO SUPPLY AND INSTALL LARGE LOGS.
3. BALANCING LOGS AS INDICATED ON PLANS ARE SCHEMATIC ONLY, EXACT PLACEMENT TO BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE CONSULTANT.
4. LOGS WILL VARY IN LENGTH AND DIAMETER, WITH A MINIMUM DIAMETER OF 450mm (18").
5. LOGS ARE TO BE BURIED 1/4 BELOW GRADE TO PREVENT MOVEMENT.
6. CONTRACTOR TO ENSURE NO SHARP EDGES, CORNERS, OR OBJECTS.
7. LOGS TO BE OF OAK, ASH, HARD MAPLE OR BEECH SPECIES, OR APPROVED ALTERNATE.
8. ALL SELECTED LOGS TO BE APPROVED BY CONSULTANT.
9. ALL WORKMANSHIP TO BE IN ACCORDANCE TO CAN/CSA-Z614-14.
10. AS PER CAN/CSA-Z614-14, SECTION 15.1.1: TOP SURFACE OF BALANCING LOG SHALL BE NOT GREATER THAN 300mm ABOVE PROTECTIVE SURFACING WHEN INTENDED FOR USE BY CHILDREN 18 MONTHS TO 5 YEARS OLD, AND NOT GREATER THAN 400mm ABOVE PROTECTIVE SURFACING WHEN INTENDED FOR USE BY CHILDREN 5 TO 12 YEARS OLD.

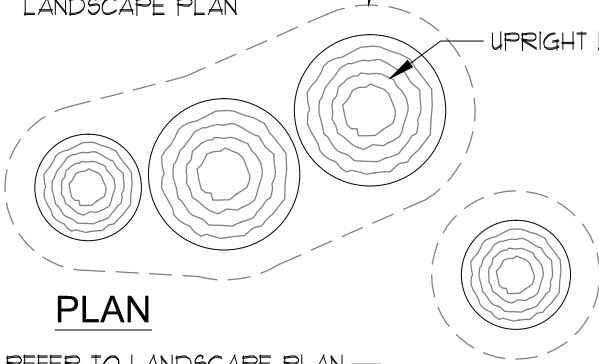
B.01 HORIZONTAL BALANCING LOGS N.T.S.



ARRANGEMENT OF LOGS TO VARY - REFER TO LANDSCAPE PLAN

CONCRETE COLLAR, BELOW

UPRIGHT LOG



PLAN

DESIRED LOOK

REFER TO LANDSCAPE PLAN FOR SURFACE MATERIAL, AS PER CAN/CSA-Z614-14

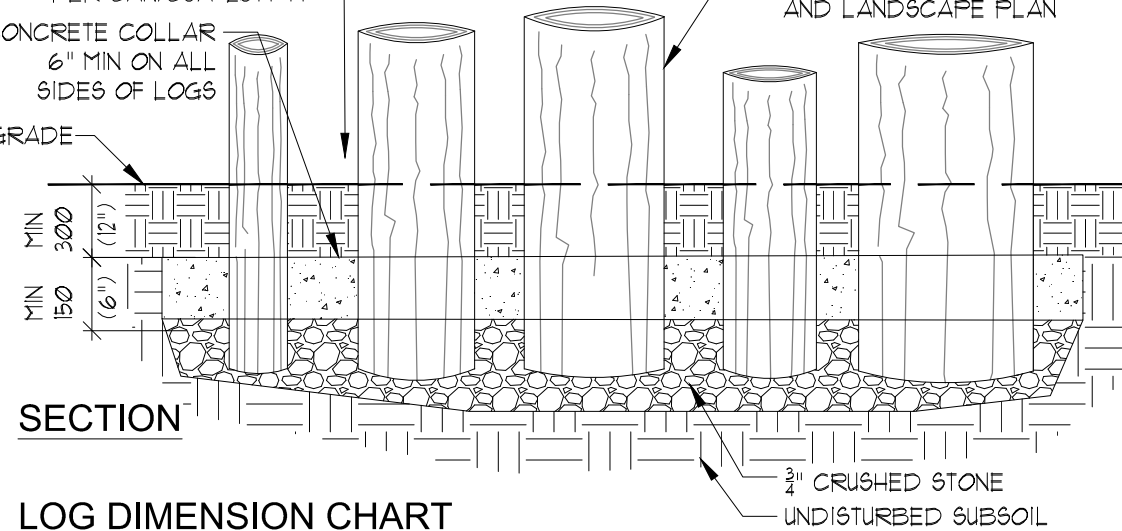
CONCRETE COLLAR 6" MIN ON ALL SIDES OF LOGS

GRADE

MIN 300 (12")
MIN 150 (6")

HEIGHT (HT.) AND SPACING TO VARY, SEE CHART BELOW AND LANDSCAPE PLAN

SECTION



LOG DIMENSION CHART

AGE GROUP	MIN. LOG DIA.	MAX. SPACING BTW/ ADJ. LOGS	MAX. LOG HT. ABOVE GRADE
18 MONTHS - 2yr (TODDLER)	200mm (8")	300mm (12")	REFER TO LANDSCAPE PLAN
2yr - 5yr (KINDERGARDEN)	300mm (12")	350mm (14")	REFER TO LANDSCAPE PLAN
5yr+(FULL DAY KINDERGARDEN)	300mm (12")	450mm (18")	REFER TO LANDSCAPE PLAN

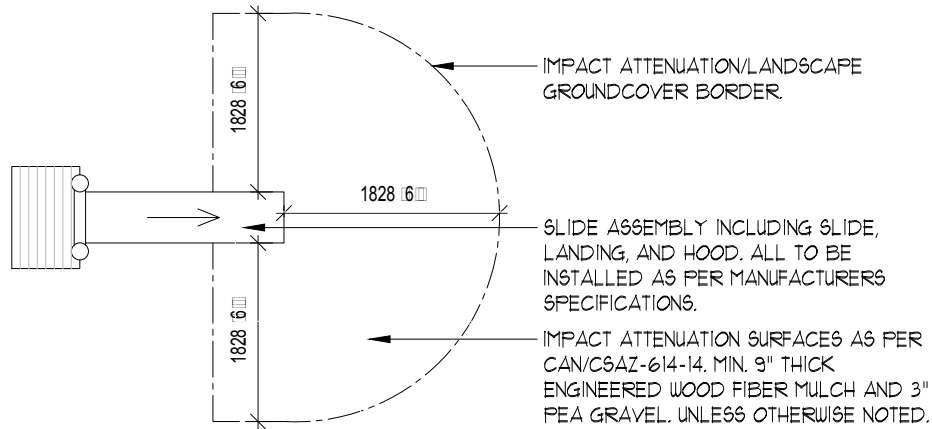
NOTES:

1. ALL DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
3. CONTRACTOR TO SUPPLY AND INSTALL LOGS.
4. VERTICAL LOGS AS INDICATED ON PLANS ARE SCHEMATIC ONLY, EXACT PLACEMENT TO BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE CONSULTANT.
5. LOGS TO BE CUT CLEANLY AND WITH A LEVEL SURFACE.
6. LOGS TO BE INSTALLED PLUMB AND VERTICAL.
7. MAX. HEIGHT AND MIN. DIAMETER OF LOGS SPECIFIED IN ABOVE CHART.
8. MAX. DISTANCES BETWEEN ADJACENT LOGS AND MAX ELEVATION DIFFERENCES BETWEEN ADJACENT LOGS SPECIFIED IN ABOVE CHART.
9. CONTRACTOR TO ENSURE NO SHARP EDGES, CORNERS, OR OBJECTS.
10. LOGS TO BE OF OAK, ASH, HARD MAPLE OR BEECH SPECIES, OR APPROVED ALTERNATE.
11. ALL SELECTED LOGS TO BE APPROVED BY CONSULTANT.

I.01 RAISED STEPPING LOGS

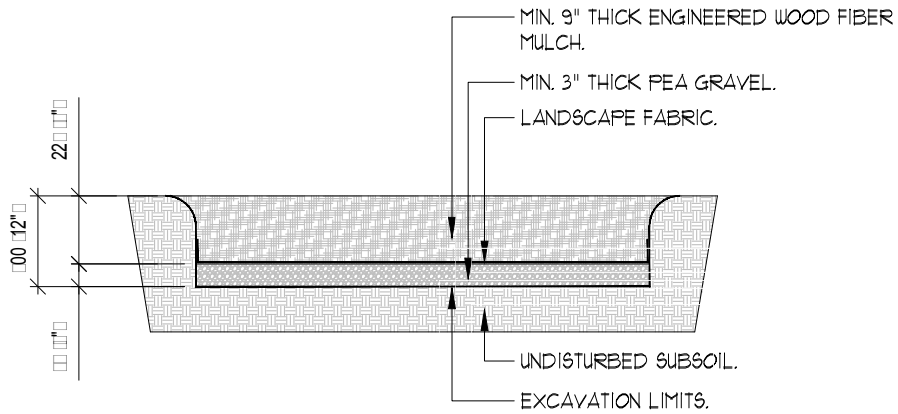
N.T.S.





PLAN VIEW

NOTE: SLIDE IS SHOWN FOR REFERENCE ONLY - IMPACT ATTENUATION APPLIES TO ALL FEATURES THAT HAVE 'FALL HEIGHT' AND AS DIRECTED ON LANDSCAPE PLANS.



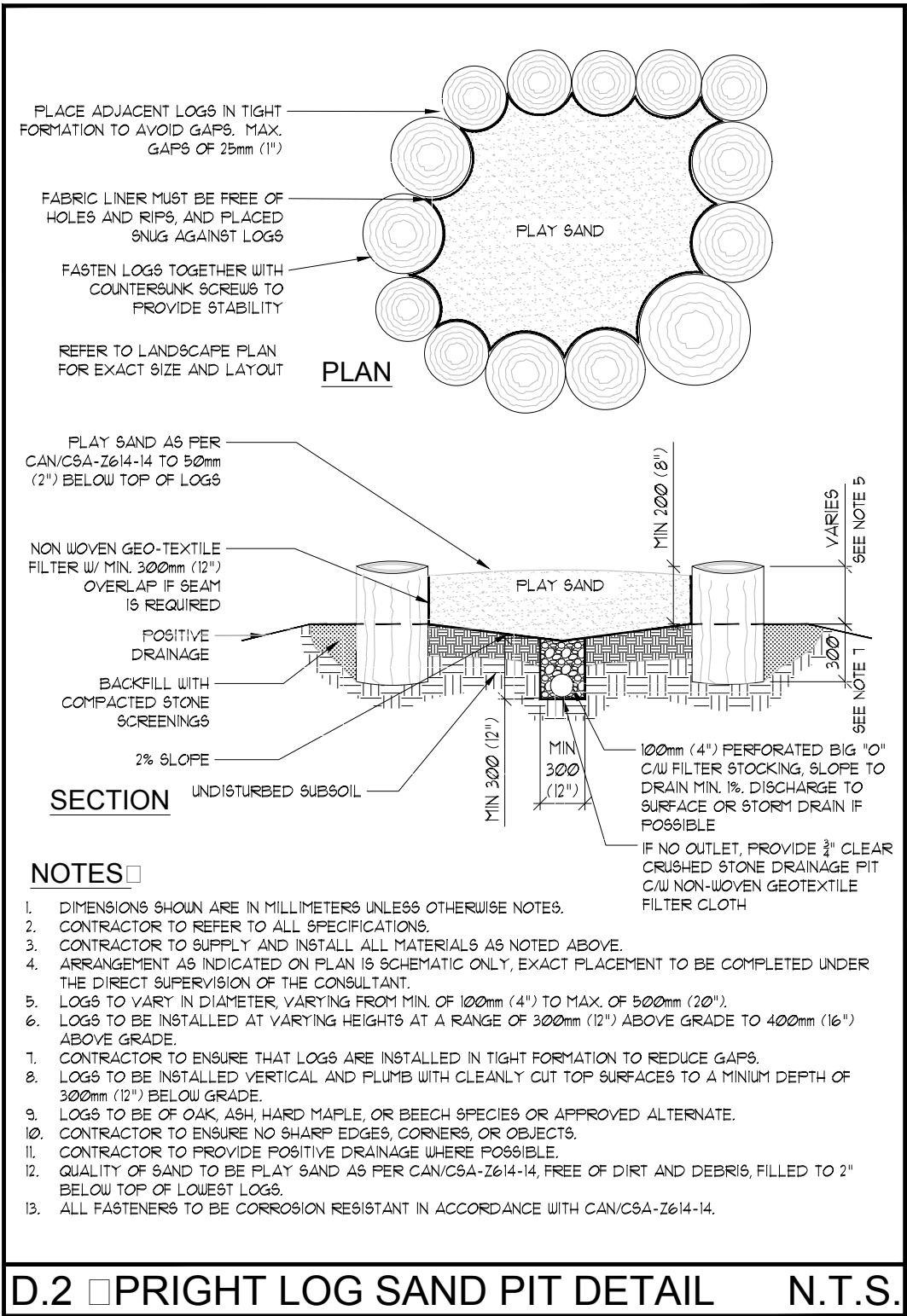
SECTION

NOTES

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
3. CONTRACTOR TO SUPPLY AND INSTALL MULCH, PEA GRAVEL, AND FILTER CLOTH AS INDICATED.
4. IMPACT ATTENUATION TO BE INSTALLED TO A MINIMUM 6' CLEARANCE RADIUS AROUND ANY EDGE OF FEATURE. REFER TO LANDSCAPE PLAN FOR DIMENSION AND LAYOUTS.
5. IMPACT ATTENUATION SURFACING TO BE FLUSH WITH SURROUNDING GRADE OR AS INDICATED BY SPOT ELEVATIONS AND GRADING PLANS.
6. CONTRACTOR TO ENSURE NO SHARP EDGES, CORNERS, OR OBJECTS.

IMPACT ATTENUATION SURFACING N.T.S.



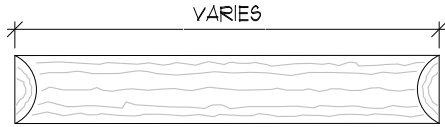


NOTES

1. DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE NOTES.
2. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
3. CONTRACTOR TO SUPPLY AND INSTALL ALL MATERIALS AS NOTED ABOVE.
4. ARRANGEMENT AS INDICATED ON PLAN IS SCHEMATIC ONLY, EXACT PLACEMENT TO BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE CONSULTANT.
5. LOGS TO VARY IN DIAMETER, VARYING FROM MIN. OF 100mm (4") TO MAX. OF 500mm (20").
6. LOGS TO BE INSTALLED AT VARYING HEIGHTS AT A RANGE OF 300mm (12") ABOVE GRADE TO 400mm (16") ABOVE GRADE.
7. CONTRACTOR TO ENSURE THAT LOGS ARE INSTALLED IN TIGHT FORMATION TO REDUCE GAPS.
8. LOGS TO BE INSTALLED VERTICAL AND PLUMB WITH CLEANLY CUT TOP SURFACES TO A MINIMUM DEPTH OF 300mm (12") BELOW GRADE.
9. LOGS TO BE OF OAK, ASH, HARD MAPLE, OR BEECH SPECIES OR APPROVED ALTERNATE.
10. CONTRACTOR TO ENSURE NO SHARP EDGES, CORNERS, OR OBJECTS.
11. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE WHERE POSSIBLE.
12. QUALITY OF SAND TO BE PLAY SAND AS PER CAN/CSA-Z614-14, FREE OF DIRT AND DEBRIS, FILLED TO 2" BELOW TOP OF LOWEST LOGS.
13. ALL FASTENERS TO BE CORROSION RESISTANT IN ACCORDANCE WITH CAN/CSA-Z614-14.

D.2 PRIGHT LOG SAND PIT DETAIL N.T.S.





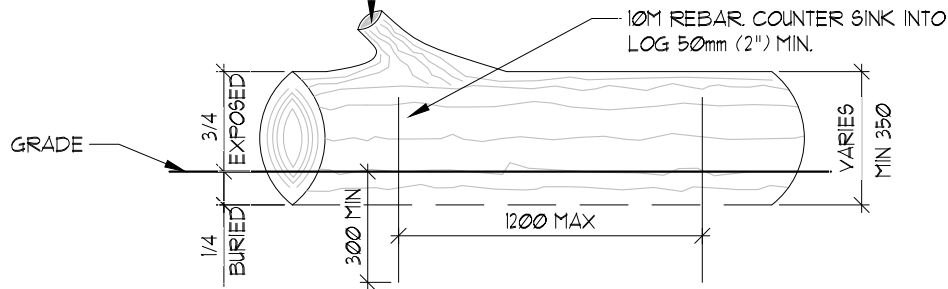
ARRANGEMENT OF LOGS
TO VARY - REFER TO
LANDSCAPE PLAN



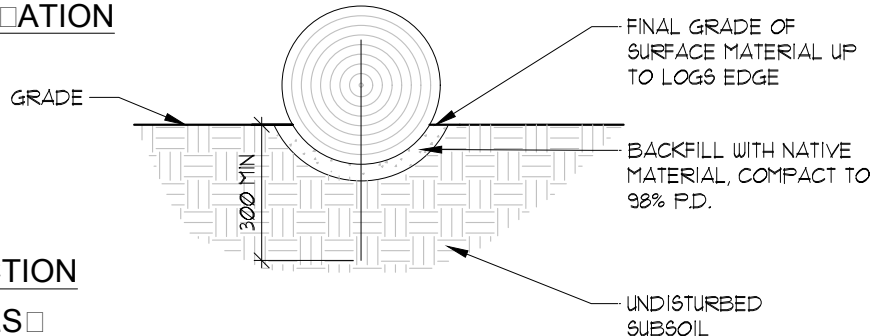
DESIRED LOOK.
NOTE: REFER TO LANDSCAPE PLANS FOR
SURROUNDING SURFACE REQUIREMENTS.

PLAN

BRANCHES ARE ACCEPTABLE
AT MIN. DIAMETER OF 200mm
(8"), CUT TO A MAX. LENGTH OF
300mm (12")



ELEVATION



SECTION

NOTES

1. ALL DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
3. CONTRACTOR TO SUPPLY AND INSTALL LARGE LOGS.
4. SEATING LOGS AS INDICATED ON PLANS ARE SCHEMATIC ONLY, EXACT PLACEMENT TO BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE CONSULTANT.
5. LOGS WILL VARY IN LENGTH AND DIAMETER, WITH A MINIMUM DIAMETER OF 350mm (14").
6. LOGS ARE TO BE BURIED 1/4 BELOW GRADE TO PREVENT MOVEMENT.
7. CONTRACTOR TO ENSURE NO SHARP EDGES, CORNERS, OR OBJECTS.
8. LOGS TO BE OF OAK, ASH, HARD MAPLE OR BEECH SPECIES, OR APPROVED ALTERNATE.
9. ALL SELECTED LOGS TO BE APPROVED BY CONSULTANT.
10. ALL WORKMANSHIP TO BE IN ACCORDANCE TO CAN/CSA-Z614-14.

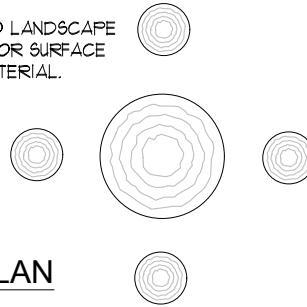
F.0 HORIZONTAL SEATING LOGS

N.T.S.

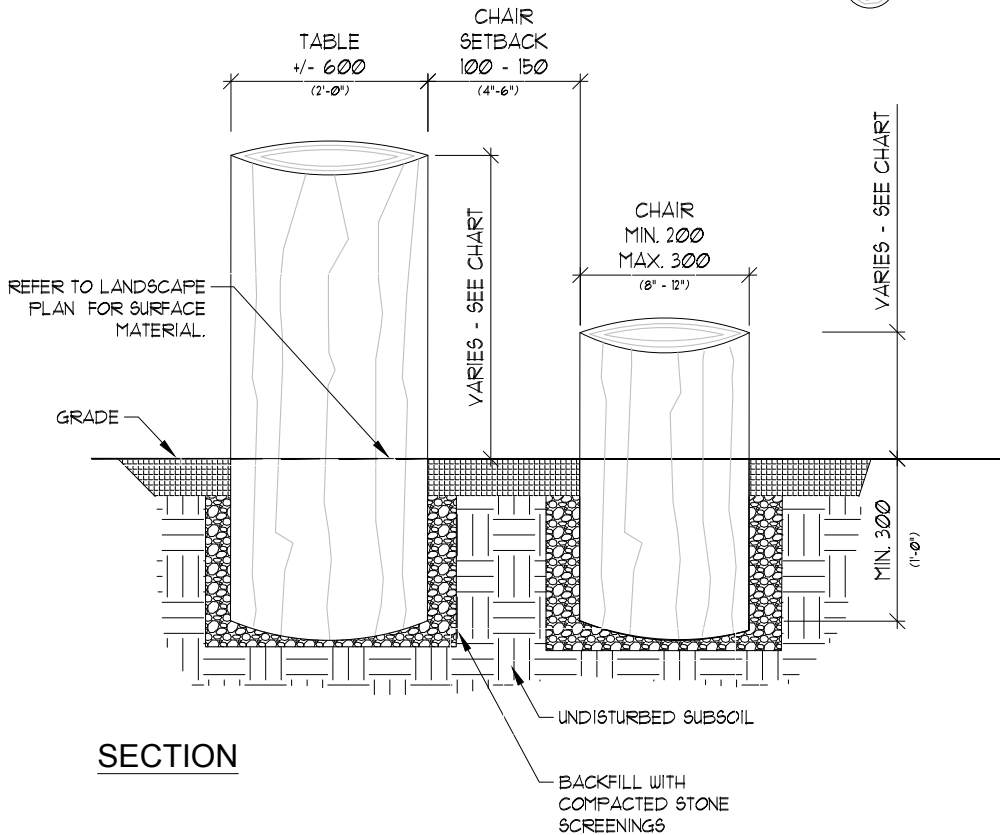


AGE GROUP	MAX. TABLE HT. ABOVE GRADE	MAX. CHAIR HT. ABOVE GRADE
TODDLER	16"	8"
PRESCHOOL	18"	10"
KINDERGARTEN	20"	12"

REFER TO LANDSCAPE PLAN FOR SURFACE MATERIAL.



PLAN



SECTION

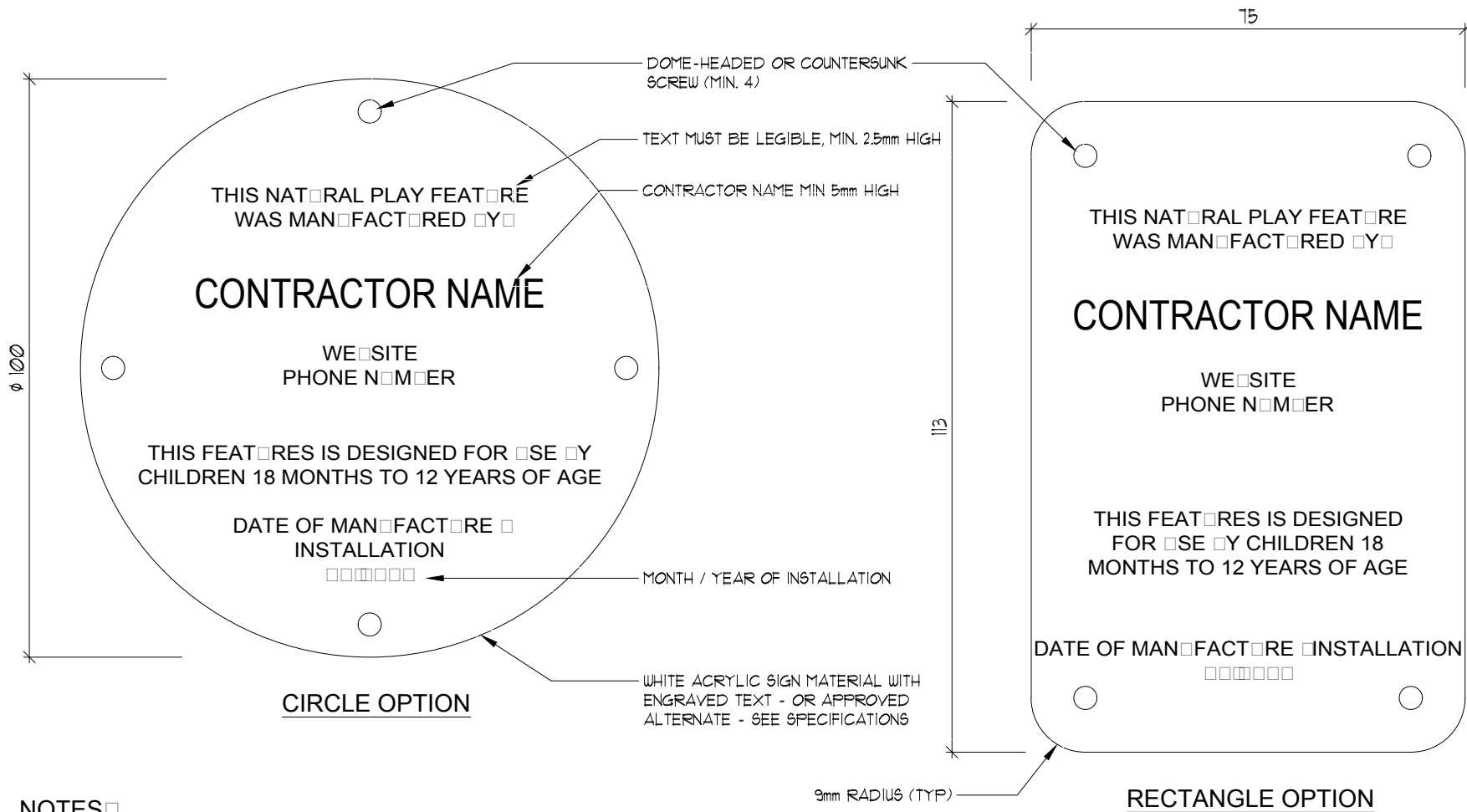
NOTES

1. ALL DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
3. CONTRACTOR TO SUPPLY AND INSTALL LOGS AS SHOWN
4. REFER TO LANDSCAPE PLAN FOR SPACING AND ARRANGEMENT.
5. LOGS TO BE CUT CLEANLY AND WITH A LEVEL SURFACE.
6. LOGS TO BE INSTALLED PLUMB AND VERTICAL.
7. CONTRACTOR TO ENSURE NO SHARP EDGES, CORNERS, OR OBJECTS.
8. LOGS TO BE OF OAK, ASH, HARD MAPLE OR BEECH SPECIES, OR APPROVED ALTERNATE.
9. ALL SELECTED LOGS TO BE APPROVED BY CONSULTANT.

F.02 LOG TABLE CHAIRS

N.T.S.





NOTES

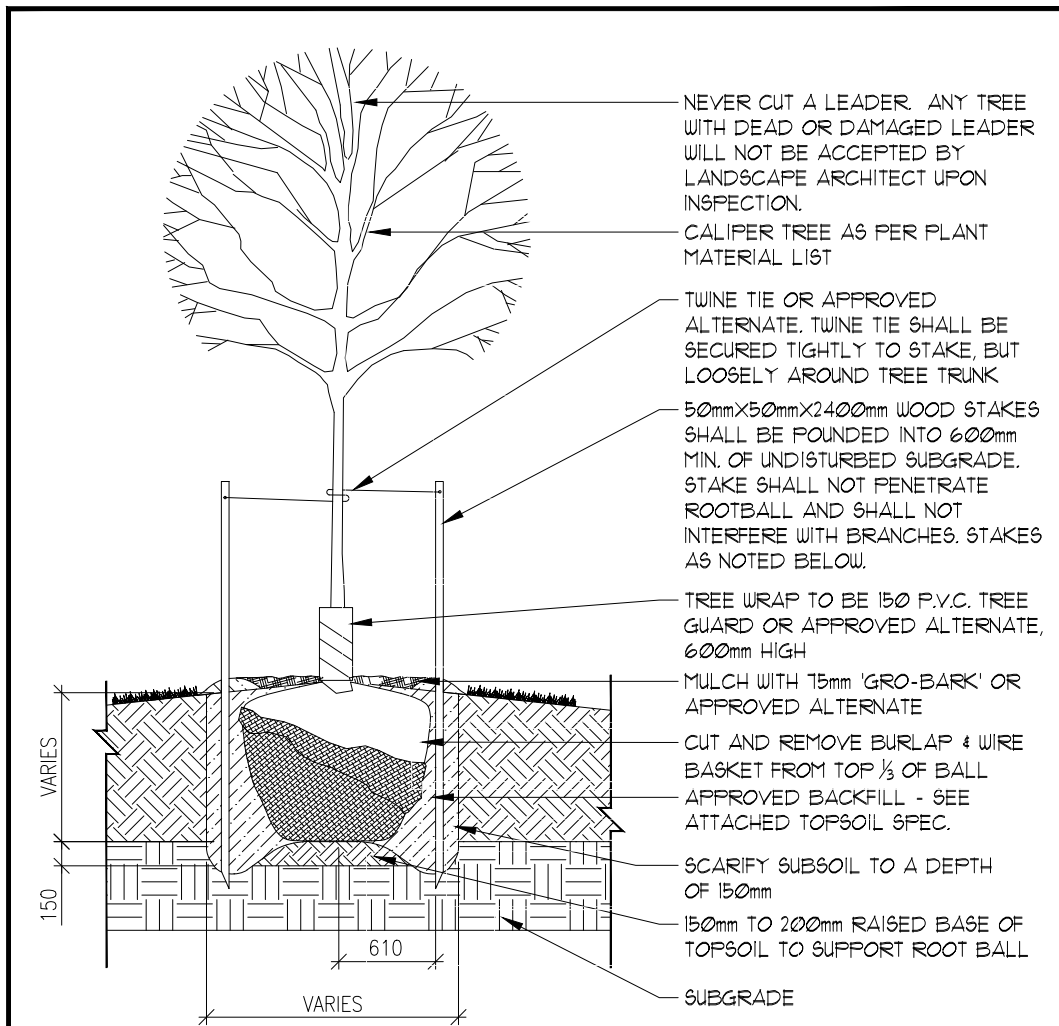
1. CONTRACTOR TO SUPPLY AND INSTALL ALL MATERIAL AS SPECIFIED.
2. LABEL TO BE EXTERIOR GRADE PLASTIC OR METAL, WITH ENGRAVED OR PRINTED TEXT.
3. INSTALL ON EACH PLAY COMPONENT USING DOME-HEADED OR COUNTERSUNK SCREWS. ENSURE FASTENERS ARE INSTALLED IN SUCH A WAY THAT THEY WILL NOT CAUSE INJURY.
4. ALL FASTENERS TO BE CORROSION RESISTANT AS PER TVD9B SPECIFICATIONS AND CAN/CSA-Z614-14.
5. CONTRACTOR TO ENSURE NO SHARP EDGES, CORNERS, OR OBJECTS.
6. LABEL TO BE FLUSH WITH SURFACE. A FLAT, RECESSED SURFACE MAY NEED TO BE CARVED INTO CURVED FEATURES TO ENSURE FLUSH INSTALLATION.

SPECIFICATIONS

MATERIAL: 3m MATTE PLEX (WHITE ACRYLIC) c/w BEVELED EDGE OR CORROSION RESISTANT METAL OR APPROVED ALTERNATE - CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL.

FONT: ARIAL, MIN. HEIGHT AS NOTED ABOVE.

ENGRAVING: LOCATED ON FRONT, c/w TEXT AND SYMBOLS FILLED WITH COLOURED LACRYL PAINT OR APPROVED ALTERNATE.



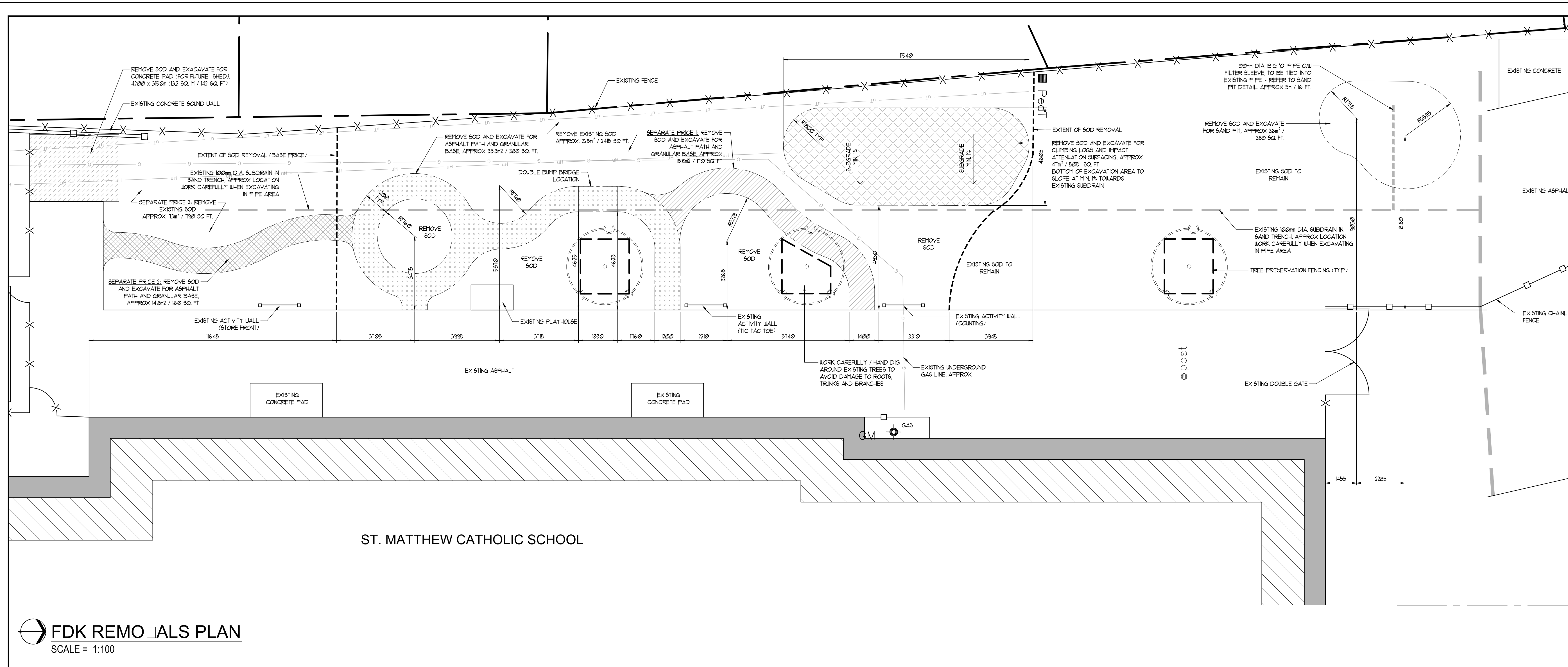
NOTES:

1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. CONTRACTOR TO REFER TO SPECIFICATIONS.
3. ALL PLANTS TO CONFORM TO CNLA - CANADIAN STANDARDS FOR NURSERY STOCK.
4. GIVE CONSULTANT 48 HOURS NOTICE PRIOR TO INSTALLATION TO INSPECT PLANT MATERIAL - SEE GENERAL SPECIFICATIONS. PLANT MATERIAL MAY BE INSPECTED AT NURSERIES.
5. DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
6. TREE PIT SIZE TO BE MIN. 300mm WIDER THAN ROOT BALL.
7. TREE SHALL BEAR SAME RELATION TO GRADE AS IT BORE TO ITS PREVIOUSLY EXISTING GRADE. PLANT TREE 50 - 100mm ABOVE DESIRED GRADE TO ALLOW FOR SOME SETTLING.
8. DO NOT DAMAGE MAIN ROOTS WHEN INSTALLING STAKES.
9. TREES UNDER 70mm CALIPER REQUIRE TWO STAKES. TREES 70mm CALIPER AND GREATER REQUIRE THREE STAKES. REMOVE STAKES AFTER 2 YEARS.
10. NO TREE PIT SHALL BE LEFT OPEN OVERNIGHT.
11. THE ABOVE DOES NOT REPRESENT ANY PARTICULAR SPECIES.
12. INSTALL 75mm OF APPROVED MULCH.

T.01 DECIDUOUS TREE PLANTING

N.T.S.





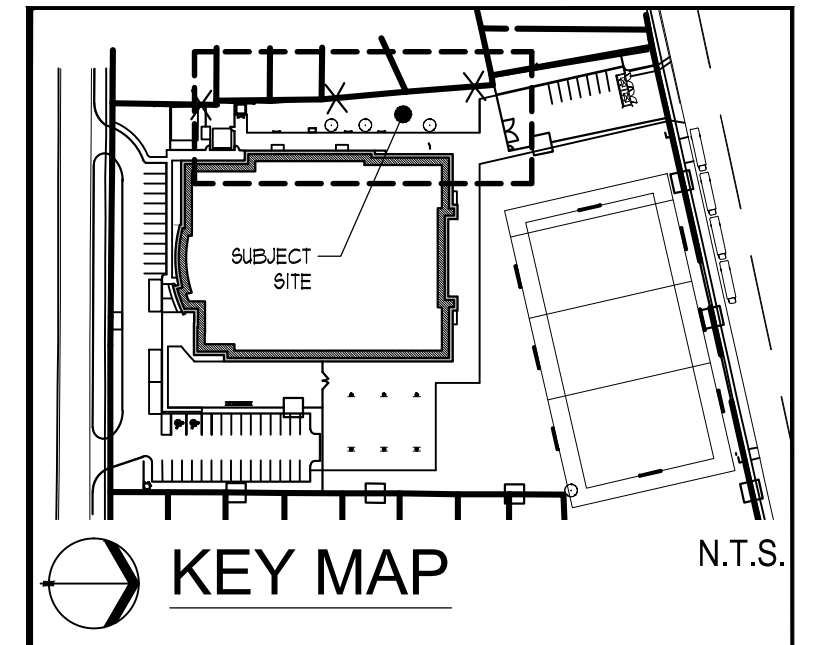
ST. MATTHEW CATHOLIC SCHOOL

FDK REMOVALS PLAN
SCALE = 1:100

LEGEND



- NOTES**
- ALL GRADES AND DIMENSIONS ARE SHOWN FOR REFERENCE AND SHOULD BE VERIFIED ON SITE BY CONTRACTOR. CONTRACTOR TO MAKE THEMSELVES FAMILIAR WITH ALL RELATED SPECIFICATIONS.
 - CONTRACTORS ARE RESPONSIBLE FOR REVIEW OF ALL SPECIFICATIONS AND RELATED DRAWINGS WITH SELECTED SUB-CONTRACTORS AS THEY PERTAIN TO WORK AS OUTLINED ON LANDSCAPE ARCHITECTURAL WORKING DRAWINGS AND SPECIFICATIONS.
 - REPORT ALL DISCREPANCIES TO THE PROJECT MANAGER DURING TENDERING PROCESS. ERRORS AND/OR OMISSIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - PROVIDE POSITIVE DRAINAGE IN ALL AREAS TO ENSURE NO FLOODING.
 - CONTRACTOR TO REPORT ANY CONCERNS REGARDING GRADING AND DRAINAGE TO THE PROJECT MANAGER IMMEDIATELY.
 - PROTECT WORK SITE WITH FENCING TO PREVENT DAMAGE AND UNAUTHORIZED ACCESS DURING CONSTRUCTION. FENCING TO REMAIN IN PLACE UNTIL ACCEPTANCE.
 - ANY HOLES CUT INTO ASPHALT SHOULD BE FILLED WITH COLD PATCH ASPHALT, APPLIED AND COMPACTED PER THE MANUFACTURER'S SPECIFICATIONS. THE SURFACE SHOULD BE SMOOTH AND FLUSH WITH EXISTING PAVING, AND SHOULD DRAIN AWAY FROM THE POST.
 - REPAIR AND MAKE GOOD ANY DAMAGE TO EXISTING STRUCTURES, SERVICES, PAVING, TREES, LANDSCAPING, AND SOD AREAS.



ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD

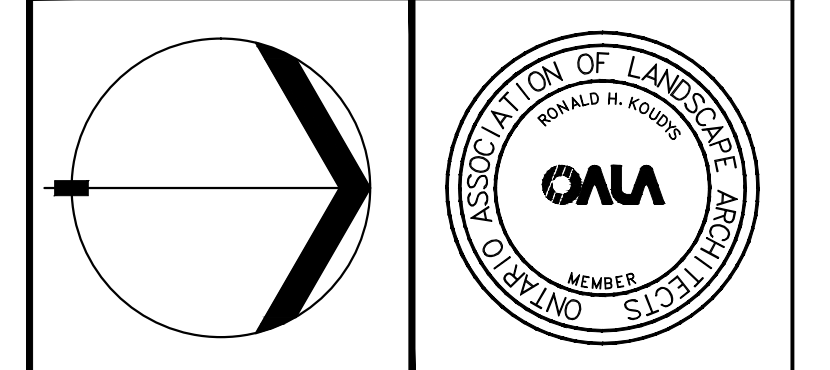


ALL DRAWINGS REMAIN THE PROPERTY OF THE LANDSCAPE ARCHITECT AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE LANDSCAPE ARCHITECTS WRITTEN PERMISSION.
THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR TENDER PURPOSES UNLESS SIGNED AND DATED BY RONALD H. KOUDYS, O.A.L.A. C.S.L.A., LANDSCAPE ARCHITECT, LONDON, ONTARIO (519) 687-3322.

Ronald H. Koudys, O.A.L.A. C.S.L.A. DATE

DATE	DESCRIPTION	No.
MAR. 3, 2020	ISSUED FOR QUOTES	3.
JAN. 30, 2020	ISSUED FOR REVIEW	2.
JAN. 7, 2019	ISSUED FOR REVIEW	1.

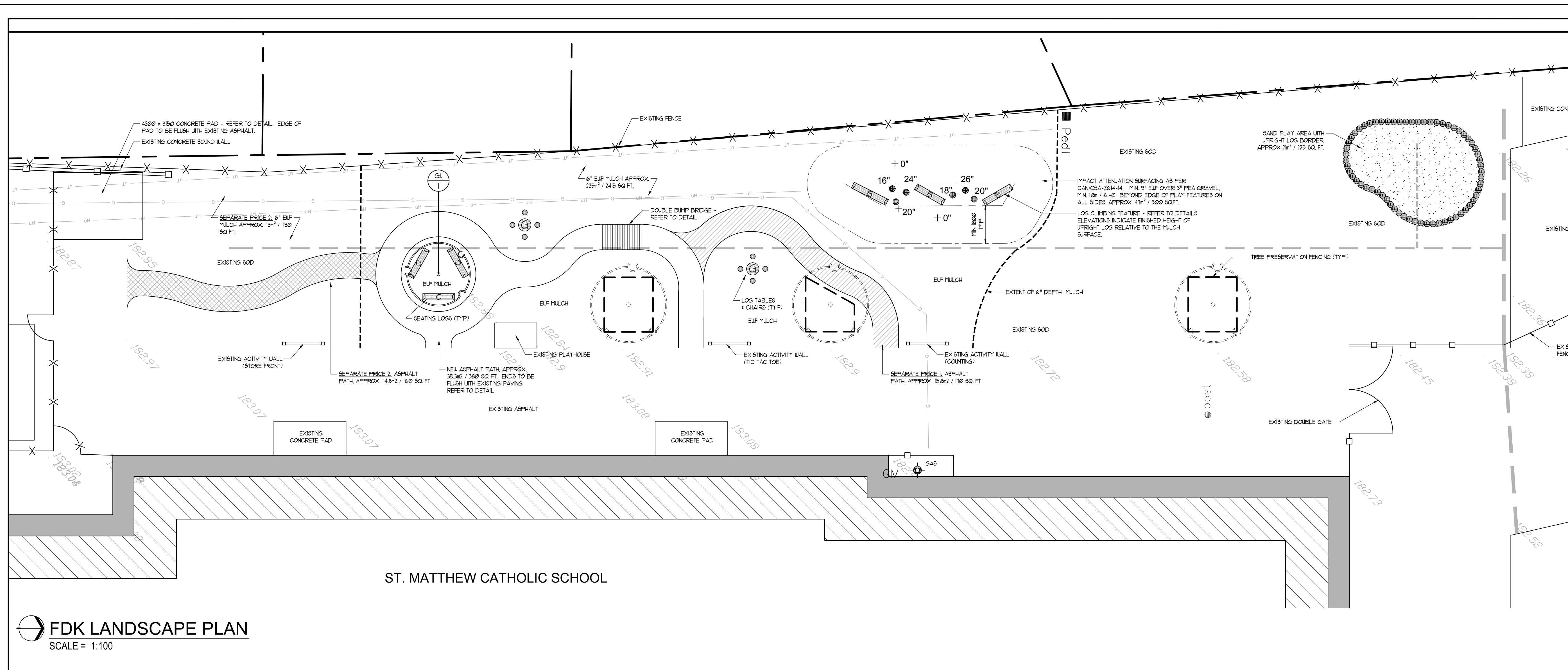
PLOTTING INFORMATION:
PLOTTED DATE = MAR. 3, 2020
PLOTTED SCALE = 1:1



PROJECT TITLE:
652
ST. MATTHEW C.S.
720 ELM AVENUE
SARNIA, ON, N7T 4H3

DRAWING TITLE:
REMOVALS PLAN

DATE: DECEMBER 2018	SCALE: AS NOTED	DRAWING No.:
DRAWN: RKL/A, Inc.	CHECKED BY: RHK	L-1
PROJECT No.:	18-238 LF	



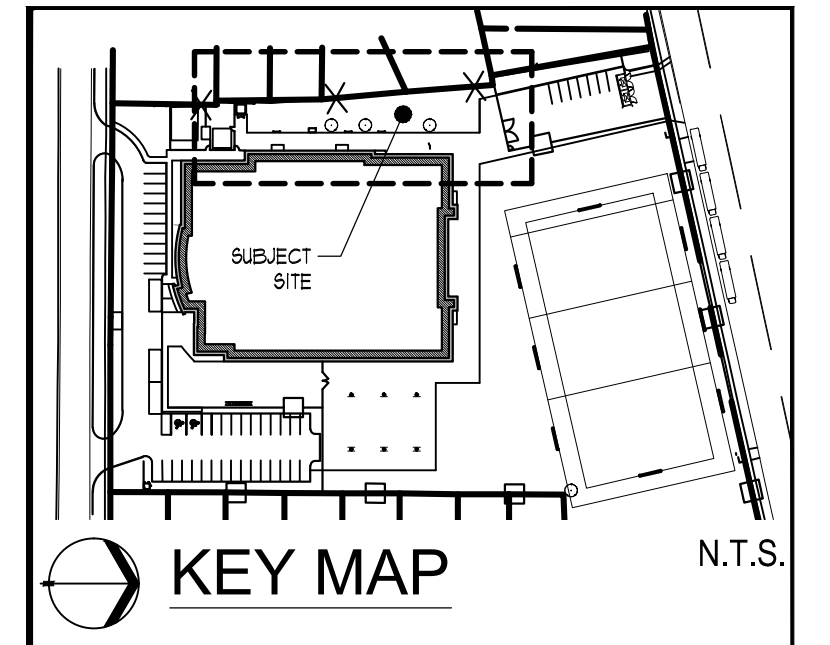
ST. MATTHEW CATHOLIC SCHOOL

FDK LANDSCAPE PLAN
SCALE = 1:100

KEY	COMMON NAME	BOTANICAL NAME	QTY	SIZE	COND
G1	SHADEMASTER LOCUST	<i>Glodisia trilacanthos 'Shademaster'</i>	1	60mcal	UB

- LEGEND**
- STANDARD UPRIGHT LOG
SEE DETAIL
 - HORIZONTAL SEATING LOG
SEE DETAIL
 - LOG TABLE AND CHAIRS
SEE DETAIL
 - BRIDGE
SEE DETAIL
 - PROPOSED TREE
SEE DETAIL
 - EXISTING DECIDUOUS TREES
TO BE KEPT
 - TREE PRESERVATION BARRIER

- NOTES**
- ALL GRADES AND DIMENSIONS ARE SHOWN FOR REFERENCE AND SHOULD BE VERIFIED ON SITE BY CONTRACTOR. CONTRACTOR TO MAKE THEMSELVES FAMILIAR WITH ALL RELATED SPECIFICATIONS.
 - CONTRACTORS ARE RESPONSIBLE FOR REVIEW OF ALL SPECIFICATIONS AND RELATED DRAWINGS WITH SELECTED SUB-CONTRACTORS AS THEY PERTAIN TO WORK AS OUTLINED ON LANDSCAPE ARCHITECTURAL WORKING DRAWINGS AND SPECIFICATIONS.
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 - PROVIDE POSITIVE DRAINAGE IN ALL AREAS TO ENSURE NO FLOODING.
 - CONTRACTOR TO REPORT ANY CONCERNS REGARDING GRADING AND DRAINAGE TO THE PROJECT MANAGER IMMEDIATELY.
 - PROTECT WORK SITE WITH FENCING TO PREVENT DAMAGE AND UNAUTHORIZED ACCESS DURING CONSTRUCTION. FENCING TO REMAIN IN PLACE UNTIL ACCEPTANCE.
 - ANY HOLES CUT INTO ASPHALT SHOULD BE FILLED WITH COLD PATCH ASPHALT, APPLIED AND COMPACTED PER THE MANUFACTURER'S SPECIFICATIONS. THE SURFACE SHOULD BE SMOOTH AND FLUSH WITH EXISTING PAVING, AND SHOULD DRAIN AWAY FROM THE POST.
 - REPAIR AND MAKE GOOD ANY DAMAGE TO EXISTING STRUCTURES, SERVICES, PAVING, TREES, LANDSCAPING, AND SOO AREAS.



ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD

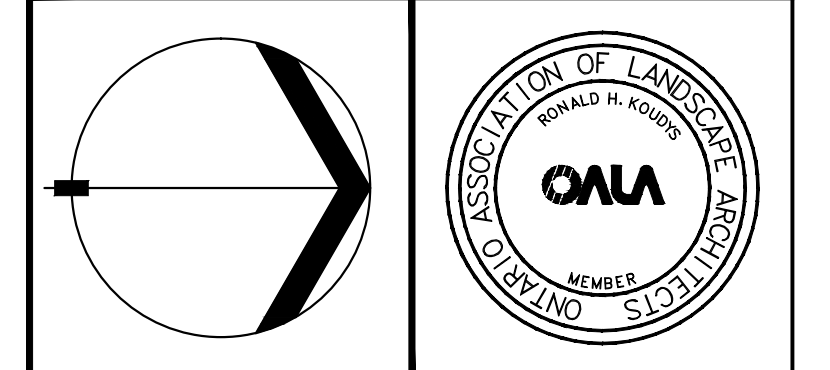


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PLOTTED DATE = MAR. 3, 2020
PLOTTED SCALE = 1:1

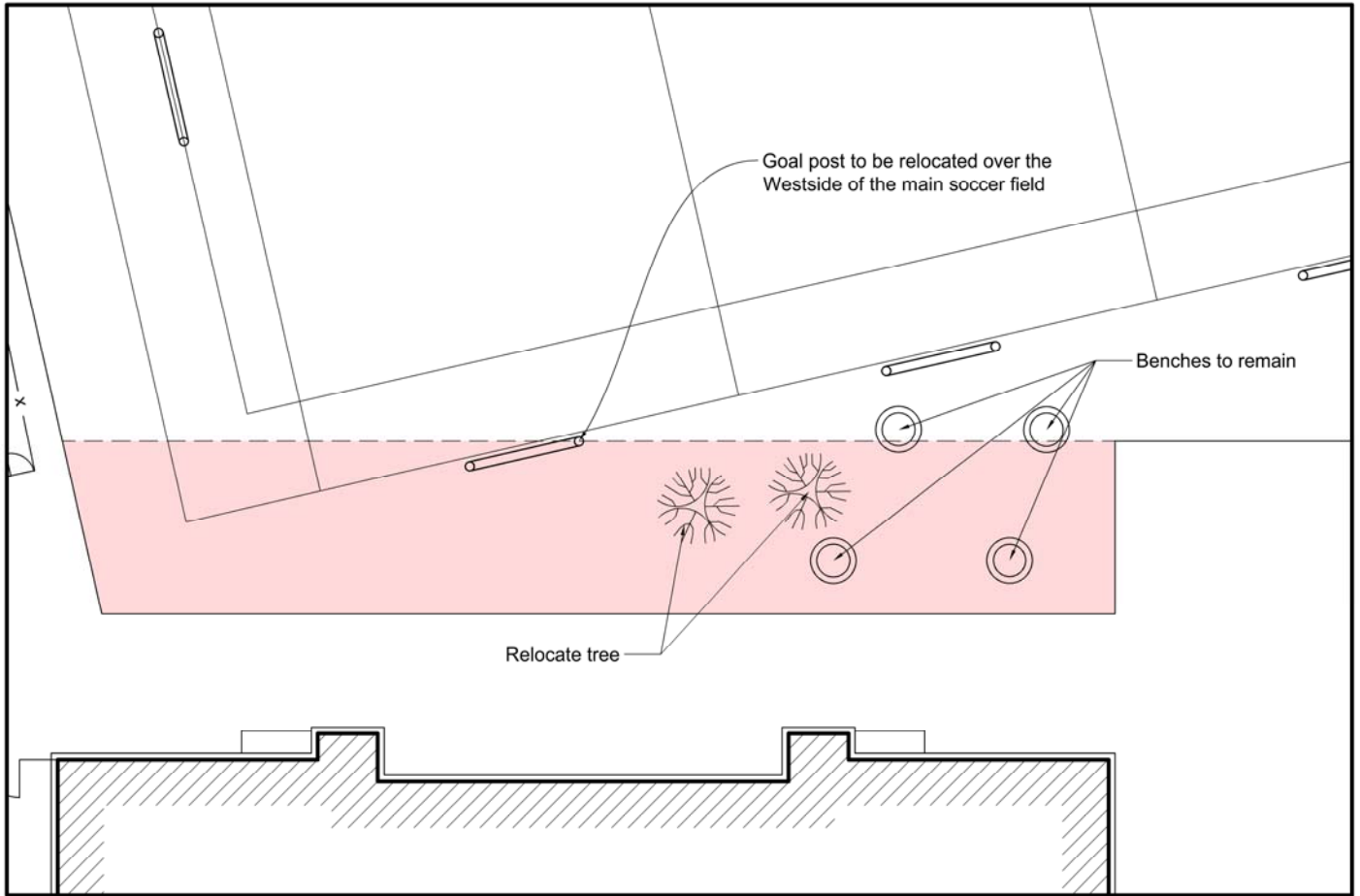


PROJECT TITLE:
652
ST. MATTHEW C.S.
720 ELM AVENUE
SARNIA, ON, N7T 4H3

DRAWING TITLE:
LANDSCAPE PLAN

DATE: DECEMBER 2018	SCALE: AS NOTED	DRAWING No.:
DRAWN: RKL/Inc.	CHECKED BY: RHK.	L-2
PROJECT No.:		18-238 LF

531 m²
5,716 sf



652

St. Matthew
Catholic School

720 Elm Avenue, Sarnia, ON, N7T 4H3



Asphalt Extension
North End

02/25/2020



ST. CLAIR CATHOLIC
DISTRICT SCHOOL BOARD
Lighting the Way ~ Rejoicing in Our Journey



Existing drainage line

Existing drainage line

New catch basins

