

# ST JOSEPH BOWMANVILLE SITE DEVELOPMENT

90 Parkway Crescent,  
Bowmanville, Ontario

DO NOT SCALE THE DRAWINGS.  
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.  
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## LIST OF DRAWINGS

000 COVER, LOCATION MAP, AND LIST OF DRAWINGS

### CIVIL

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C002 GENERAL NOTES AND DETAILS

### ARCHITECTURAL

A101 OVERALL SITE PLAN  
A102 PART SITE DEMOLITION PLAN  
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A602 SECTIONS

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SECTIONS & DETAILS

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RW1 WALL PLAN  
RW2 WALL LAYOUTS  
RW3 TYPICAL WALL SECTIONS  
RW4 TYP. WALL DETAILS



1  
000 SITE LOCATION PLAN  
N.T.S.

NO.	ISSUES/ REVISIONS	DATE	BY
1	60% DESIGN SUBMISSION	MAR. 13, 2026	BBA
2	ISSUED FOR CLIENT REVIEW	MAR. 24, 2026	BBA
3	ISSUED FOR PERMIT & TENDER	MAR. 31, 2026	BBA

## CONSULTANTS

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CIVIL:



MONUMENT

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PROJECT:  
ST JOSEPH BOWMANVILLE  
SITE DEVELOPMENT

90 PARKWAY CRES.  
BOWMANVILLE, ON  
PVNDCSB

DRAWING:  
DRAWING LIST &  
LOCATION MAP

DESIGN BY: BBA  
DRAWN BY:  
CHECKED BY:  
DATE: FEB. 2026  
SCALE: AS NOTED



PROJECT NO: DRAWING NO:

25196 000



**GENERAL NOTES:**

- THESE DRAWINGS MAY INCLUDE INFORMATION PROVIDED BY OTHERS. MONUMENT GROUP BELIEVES THIS INFORMATION TO BE DEPENDABLE BUT HAS NOT VERIFIED ITS ACCURACY AND/OR COMPLETENESS AND, ACCORDINGLY, SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY RESULT FROM ITS INCORPORATION HEREIN.
- HERE WITHIN, THE FOLLOWING STAKEHOLDERS ARE USED IN REFERENCE:
  - "MUNICIPALITY" - MUNICIPALITY OF CLARINGTON
  - "COUNTY" - REGION OF DURHAM
  - "CONSERVATION AUTHORITY" - CENTRAL LAKE ONTARIO CONSERVATION AUTHORITY
  - "ENGINEER" - MONUMENT GROUP
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED BY THE ACT.
- ALL WORK SHALL HAVE MUNICIPAL, COUNTY, AND CONSERVATION AUTHORITY APPROVAL - AS REQUIRED - BEFORE COMMENCEMENT OF CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL APPLICABLE SEDIMENT AND EROSION CONTROL MEASURES ARE IN PLACE AND INSTALLED ACCORDING TO APPLICABLE ONTARIO PROVINCIAL STANDARDS DRAWINGS AND/OR AS DETAILED HERE WITHIN.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND MONITOR THE WORKING CONDITION OF EACH EROSION AND SEDIMENT CONTROL APPLICATION FOLLOWING ALL MAJOR RAINSTORM.
- EROSION AND CONTROL MEASURES SHOULD NOT BE REMOVED UNTIL SUFFICIENT VEGETATION HAS BEEN ACCOMPLISHED ON ALL DISTURBED AREAS. ONCE SUFFICIENT VEGETATION HAS BEEN ACHIEVED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY REMOVE ALL APPLICATIONS TO THE SATISFACTION OF THE ENGINEER AND DISPOSE OF SEDIMENT OFF-SITE AT THE APPLICABLE WASTE MANAGEMENT FACILITY. ALL EXPENSES UNDER THIS WORK SHALL BE BORNE BY THE CONTRACTOR
- ALL BACKFILL MATERIALS SHALL BE FREE FROM FOREIGN MATERIALS SUCH AS REFUSE, CINDERS, WOOD, VEGETABLES OR ORGANIC MATTER, BOULDERS, ROCKS, STONES, OR ANY OTHER MATERIAL, WHICH IN THE OPINION OF THE ENGINEER, SHOULD NOT BE USED FOR BACKFILLING. NO FROZEN MATERIALS SHALL BE USED. BACKFILLING SHALL NOT BE CONDUCTED WHERE MATERIAL IN THE TRENCH IS FROZEN. BACKFILL TO BE APPROVED NATIVE MATERIAL TO 98% SPMDD.
- THE LOCATION OF EXISTING UTILITIES, AS SHOWN ON THE DESIGN DRAWINGS, ARE APPROXIMATE ONLY AND MAY NOT BE FULLY ACCURATE OR COMPLETE. THE CONTRACTOR SHALL EXPOSE ALL TIE-IN LOCATIONS AND POTENTIAL POINTS OF CONFLICT AND CONFIRM DESIGN ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION. THE CONTRACTOR SHALL ASSUME ALL COSTS AND EXPENSES THAT MAY ARISE FROM DAMAGES AND REPAIR TO SUCH UTILITIES.
- CONTRACTOR SHALL REINSTATE ALL PRIVATE AND MUNICIPAL PROPERTIES DISTURBED DURING CONSTRUCTION TO EXISTING CONDITIONS OR BETTER.
- FOR ANY MATERIAL SUBSTITUTION OR CHANGE TO THE DESIGN, THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION
- THE LOCATION OF THE SURVEY CONTROL MONUMENTS SHALL BE PROVIDED BY THE ENGINEER. ALL SURVEY MONUMENTS, BENCHMARKS, AND LEGAL PINS MUST BE PROTECTED AND ANY DAMAGE CAUSED BY NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.C. MANUAL OF "UNIFORM TRAFFIC CONTROL DEVICES"

**PAVEMENT STRUCTURE**

- PAVEMENT STRUCTURE TO BE CONSTRUCTED AS PER THE TYPICAL DETAIL ON THIS SHEET.
- COMPACTION FOR PAVEMENT (SURFACE AND BINDER), GRANULAR BASE (GRAN 'A' & 'B') SHALL MEET MINIMUM STANDARD PROCTORED MAXIMUM DRY DENSITY ("SPMDD") COMPACTION AS PER THE DETAIL ON THIS SHEET.
- GRANULAR MATERIALS SHALL BE IN CONFORMANCE WITH THE FOLLOWING OPSS STANDARDS:
  - 1001 AGGREGATES, GENERAL
  - 1004 AGGREGATES, MISCELLANEOUS
  - 1010 AGGREGATES, BASE, SUBBASE, SELECT SUBGRADE, AND BACKFILL MATERIAL
- SUBGRADE SHALL BE COMPACTED TO 98% SPMDD WITH MAXIMUM LIFTS THICKNESS OF 300mm, PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING THE GRANULAR B SUBBASE.
- ALL IMPORTED BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED IN MAXIMUM LIFTS THICKNESS OF 300mm.

**STORMWATER NOTES:**

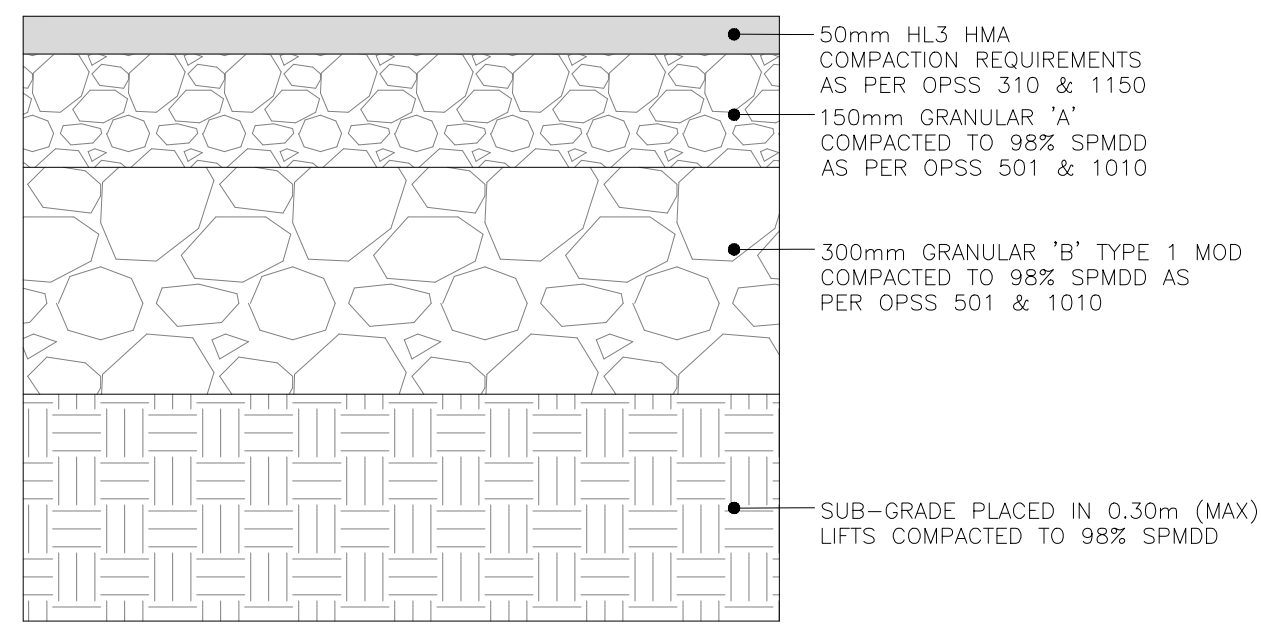
- REFER TO TRENCH DRAIN MANUFACTURER SHOP DRAWINGS INSTALLATION METHODS AND MATERIALS.

**STORM SEWERS**

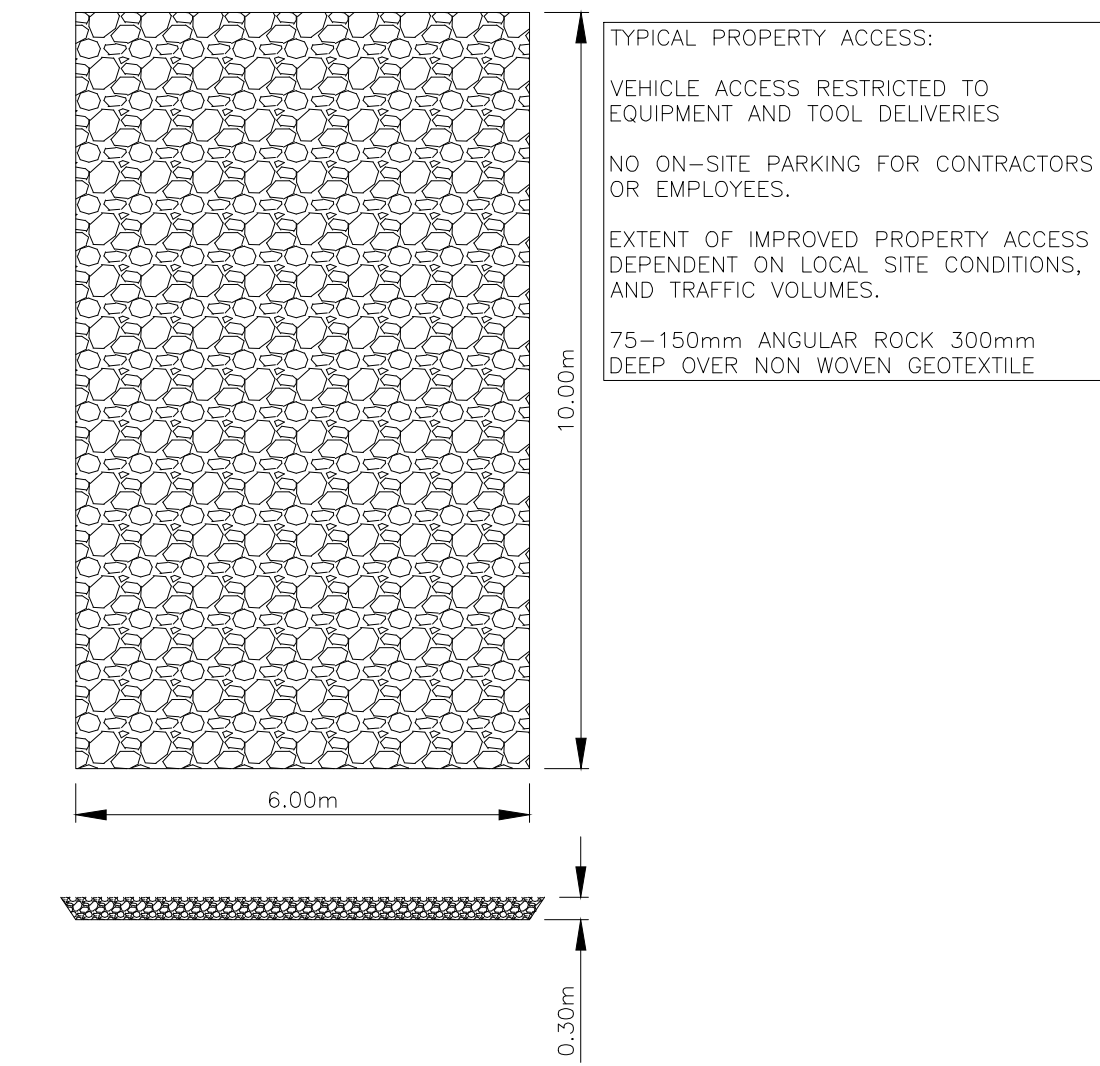
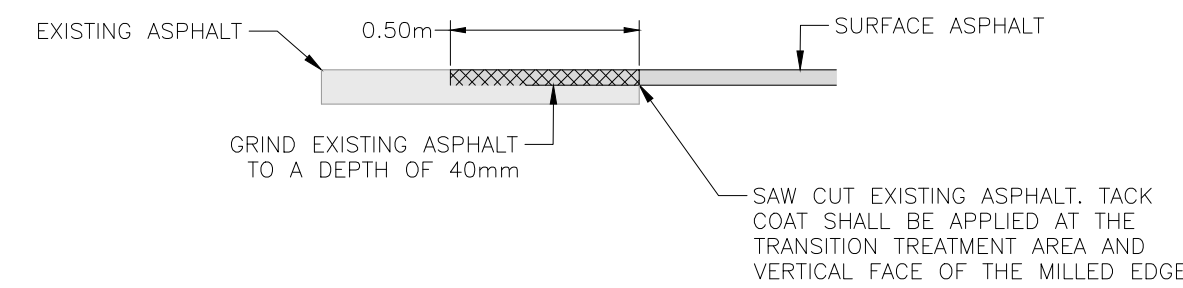
- STORM SEWERS SHALL BE PVC SDR35 WITH GASKET BELL END (UNLESS OTHERWISE SPECIFIED)
- BEDDING, BACKFILL AND COVER AS PER OPSD 802.010 FOR FLEXIBLE PIPE. BEDDING AND COVER MATERIAL SHALL BE GRANULAR A COMPACTED TO 100% SPMDD.
- MANHOLES AS PER OPSD 701.010. FRAME AND GRATES AS PER OPSD 401.010 - TYPE A.
- MANHOLES SHALL BE INSTALLED WITH A 600mm SUMP.
- AREA DRAINS TO BE INSTALLED AS PER DETAIL ON THIS SHEET.

**EROSION AND SEDIMENT CONTROL:**

- LIGHT DUTY SILT FENCE SHALL BE INSTALLED AS PER OPSD 219.110 AND MAINTAINED REGULARLY.
- TEMPORARY ROCK FLOW CHECK DAMS SHALL BE INSTALLED AS PER OPSD 219.211 AND MAINTAINED REGULARLY.
- ALL DISTURBED SURFACES SHALL BE HAND-SEEDED AS PER OPSS PROV. 803.10.02 TABLE 3 & 5 AS SOON AS FINAL GRADING HAS BEEN COMPLETED.
- MUD MAT TO BE INSTALLED PER DETAIL ON THIS SHEET AT SITE ENTRANCE AND MAINTAINED REGULARLY.
- CATCH BASIN SILT SACKS SHALL BE INSTALLED AS PER DETAIL ON THIS SHEET ON ALL EXISTING AND PROPOSED CATCH BASINS AND MAINTAINED REGULARLY UNTIL VEGETATION IS ESTABLISHED.

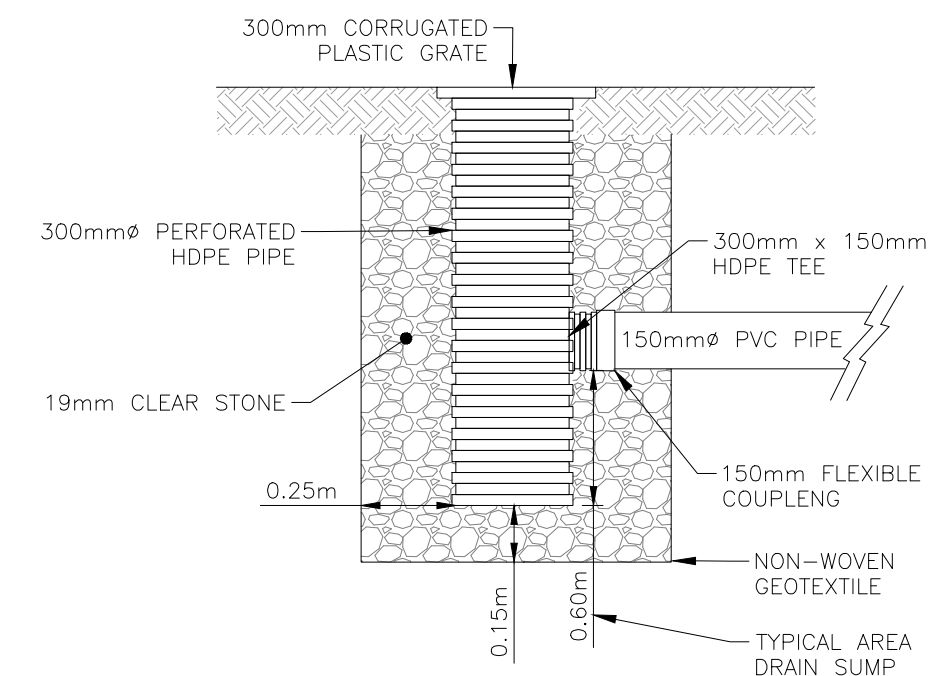


**DETAIL 01 - PAVEMENT STRUCTURE**

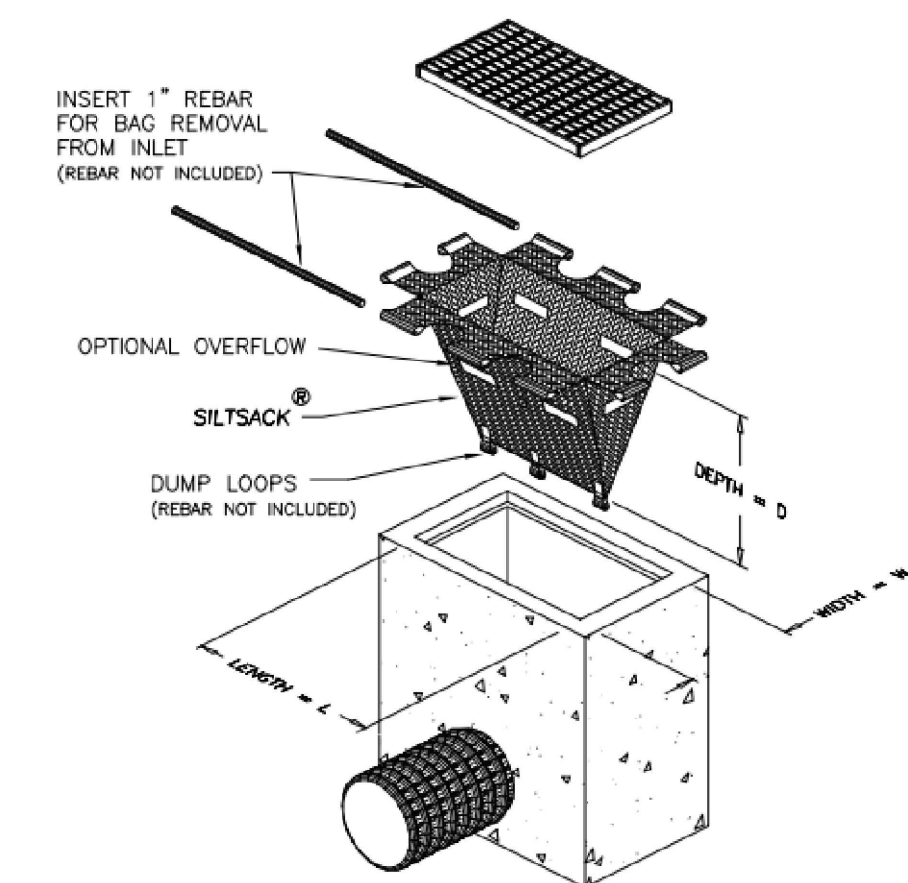


**DETAIL 05 - MUD MAT**

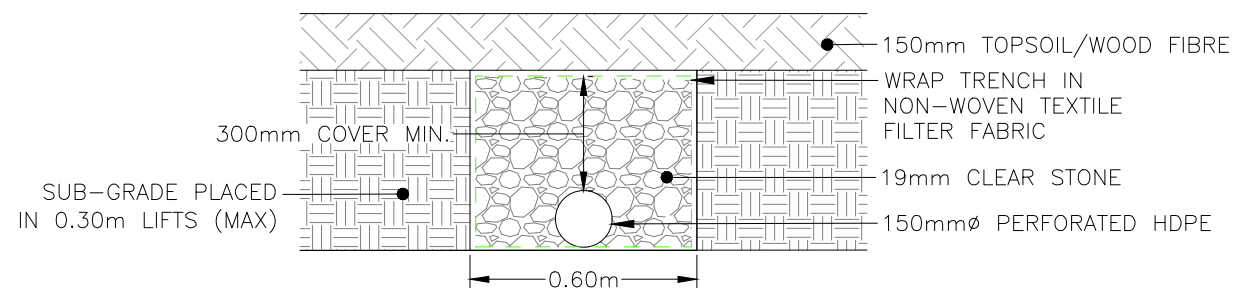
**DETAIL 02 - LAP JOINT**



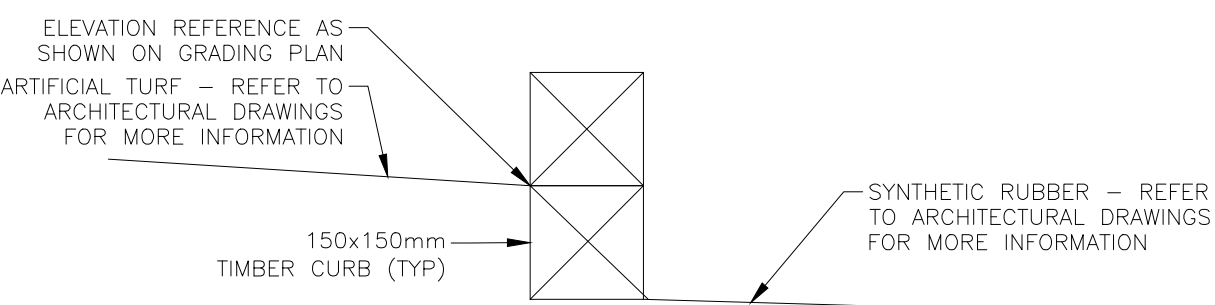
**DETAIL 03 - AREA DRAIN**



**DETAIL 04: CATCH BASIN SILT SACK (OR APPROVED EQUIVALENT)**



**DETAIL 06 - SENSORY GARDEN INFILTRATION TRENCH**



**DETAIL 07 - TIMBER CURB**

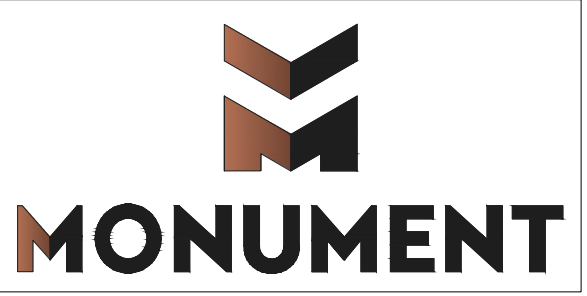
**LEGEND**

VEHICLE ACCESS RESTRICTED TO EQUIPMENT AND TOOL DELIVERIES  
NO ON-SITE PARKING FOR CONTRACTORS OR EMPLOYEES.  
EXTENT OF IMPROVED PROPERTY ACCESS DEPENDENT ON LOCAL SITE CONDITIONS, AND TRAFFIC VOLUMES.  
75-150mm ANGULAR ROCK 300mm DEEP OVER NON WOVEN GEOTEXTILE

**PROJECT BENCHMARKS**

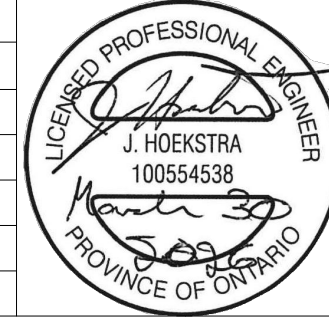
NO.	DATE (Y/M/D)	REVISION	BY
3.	26/03/30	ISSUED FOR PERMIT & TENDER	J.H.
2.	26/03/24	90% DESIGN SUBMISSION	J.H.
1.	26/03/13	60% DESIGN SUBMISSION	J.H.

**NOT FOR CONSTRUCTION**



MONUMENT PROJECT No.: 26-0004

DRAWN:	T.M.
DESIGNED:	T.M.
CHECKED:	J.H.
ENGINEER:	J.H.
DATE:	26/03/30
H SCALE:	1:200
V SCALE:	N/A



PVNC CATHOLIC DISTRICT SCHOOL BOARD  
ST. JOSEPH BOMANVILLE SITE DEVELOPMENT  
MUNICIPALITY OF CLARINGTON

GENERAL NOTES AND DETAILS

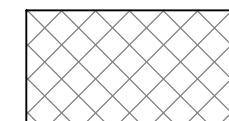
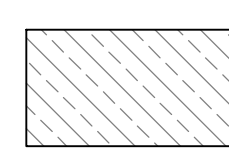
DRAWING No.  
**C002**



### GENERAL DEMOLITION NOTES

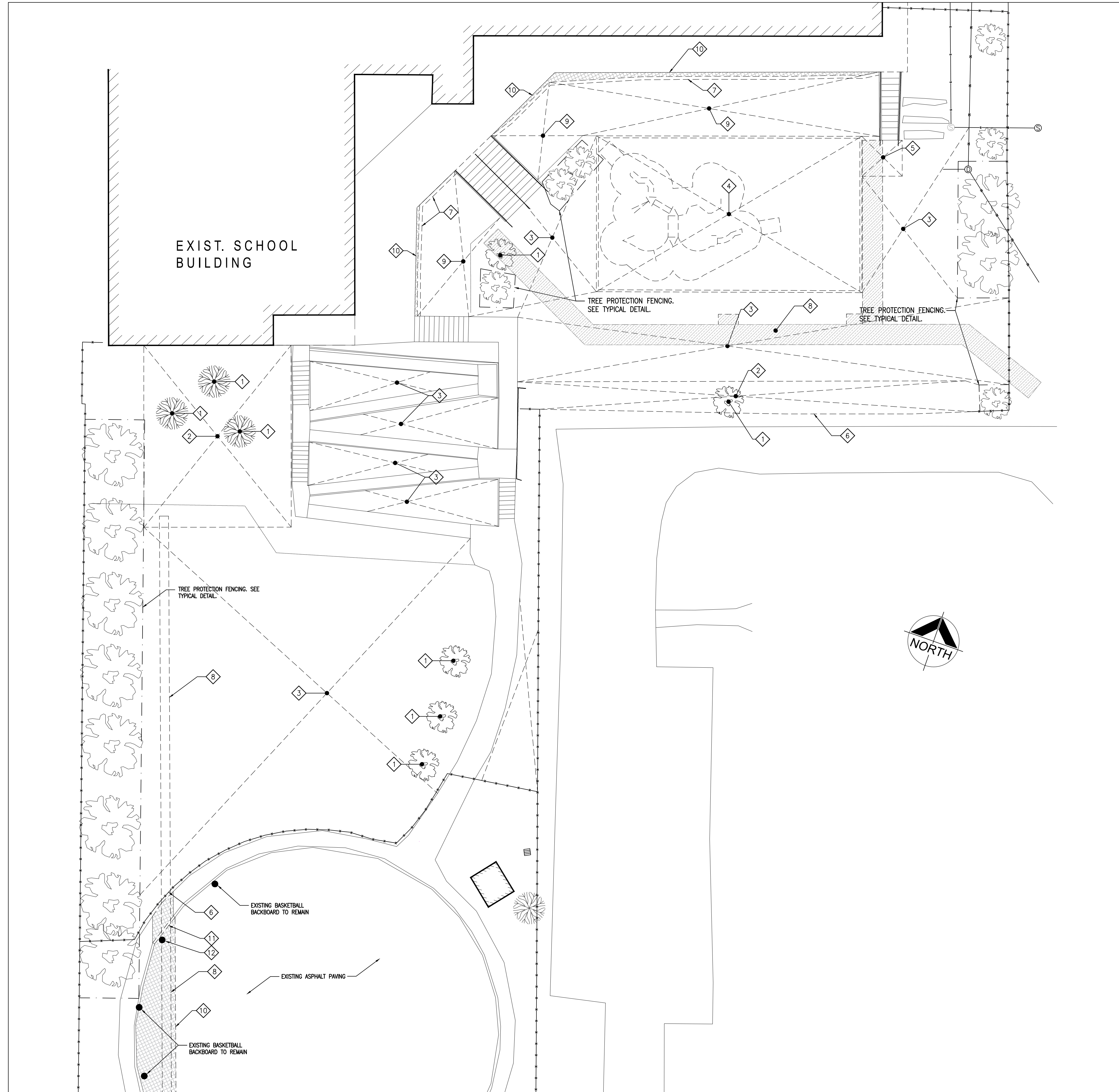
1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
3. COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
4. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSTRUCTION MANAGER SO AS NOT TO DAMAGE EXISTING STRUCTURE, LANDSCAPE OR PART THEREOF.
5. DEMOLITION DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE NEW SITE WORK AS SHOWN AND AS REQUIRED.
6. ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, COMMUNICATIONS, ELECTRICAL AND LANDSCAPE DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
7. NOTIFY THE CONSULTANT OF ANY DISCREPANCIES.
8. PROVIDE TREE PROTECTION FENCING AROUND ALL EXISTING TREES TO REMAIN WHICH ARE ADJACENT TO NEW WORK.
9. MAINTAIN WORK AREAS AND STORAGE AREAS IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES.
10. SITE VERIFY LOCATIONS OF ALL SERVICES IN OR ADJACENT TO CONSTRUCTION AREA.

### DEMOLITION LEGEND

-  HATCHING DENOTES APPROXIMATE LIMITS OF REMOVAL OF EXISTING ASPHALT.
-  HATCHING DENOTES APPROXIMATE LIMITS OF EXCAVATION FOR INSTALLATION OF NEW SERVICES. REINSTATE GRADES UPON COMPLETION.

### DEMOLITION NOTES

- 1 REMOVE & RELOCATE EXISTING TREES ON SITE. LOCATIONS TO BE COORDINATED WITH OWNER.
- 2 REMOVE EXISTING TOPSOIL & EXCAVATE AS REQUIRED FOR FOR INSTALLATION OF NEW RETAINING WALLS.
- 3 REMOVE MIN. 100mm TOPSOIL AND EXCAVATE AS REQUIRED FOR INSTALLATION OF ARTIFICIAL TURF.
- 4 REMOVE EXISTING PLAY EQUIPMENT, CURBS AND SURFACING MATERIAL. SALVAGE PLAY EQUIPMENT FOR REINSTALLATION AT NEW LOCATIONS. EXCAVATE AS REQUIRED FOR NEW WORK.
- 5 REMOVE EXISTING CONCRETE SLAB ON GRADE.
- 6 REMOVE EXISTING CHAINLINK FENCE AS REQUIRED TO COMPLETE NEW WORK. REINSTATE WITH NEW FENCE UPON COMPLETION.
- 7 REMOVE EXISTING CONCRETE CURB/ WALL AS REQUIRED TO COMPLETE NEW WORK.
- 8 EXCAVATE AS REQUIRED FOR INSTALLATION OF NEW DRAINAGE PIPING. REINSTATE TO MATCH EXISTING.
- 9 REMOVE TOPSOIL AND EXCAVATE AS REQUIRED FOR CONSTRUCTION OF NEW RETAINING WALL AND ASPHALT PAVING.
- 10 SAWCUT EXISTING ASPHALT AND PREPARE FOR NEW ASPHALT LAP JOINT.
- 11 SAWCUT & REMOVE EXISTING CONCRETE CURB FOR INSTALLATION OF SERVICES. REINSTATE CONCRETE CURB TO MATCH EXISTING AFTER SERVICE CONNECTION.
- 12 REMOVE EXISTING BASKETBALL BACKBOARD.



1  
A102  
PART SITE DEMOLITION PLAN  
1:200

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NO.	ISSUES/ REVISIONS	DATE	BY
1	60% DESIGN SUBMISSION	MAR. 13, 2026	BBA
2	ISSUED FOR CLIENT REVIEW	MAR. 24, 2026	BBA
3	ISSUED FOR PERMIT & TENDER	MAR. 31, 2026	BBA



PROJECT:  
ST JOSEPH BOWMANVILLE  
SITE DEVELOPMENT

90 PARKWAY CRES.  
BOWMANVILLE, ON  
PVNDCCSB

DRAWING:  
PART SITE DEMOLITION  
PLAN

DESIGN BY: BBA  
DRAWN BY: BBA  
CHECKED BY:  
DATE: MAR. 2026  
SCALE: 1:200

SEAL:  
ONTARIO ASSOCIATION  
OF  
ARCHITECTS  
CASSANDRA ERIN CAULTUS  
LICENCE  
8891

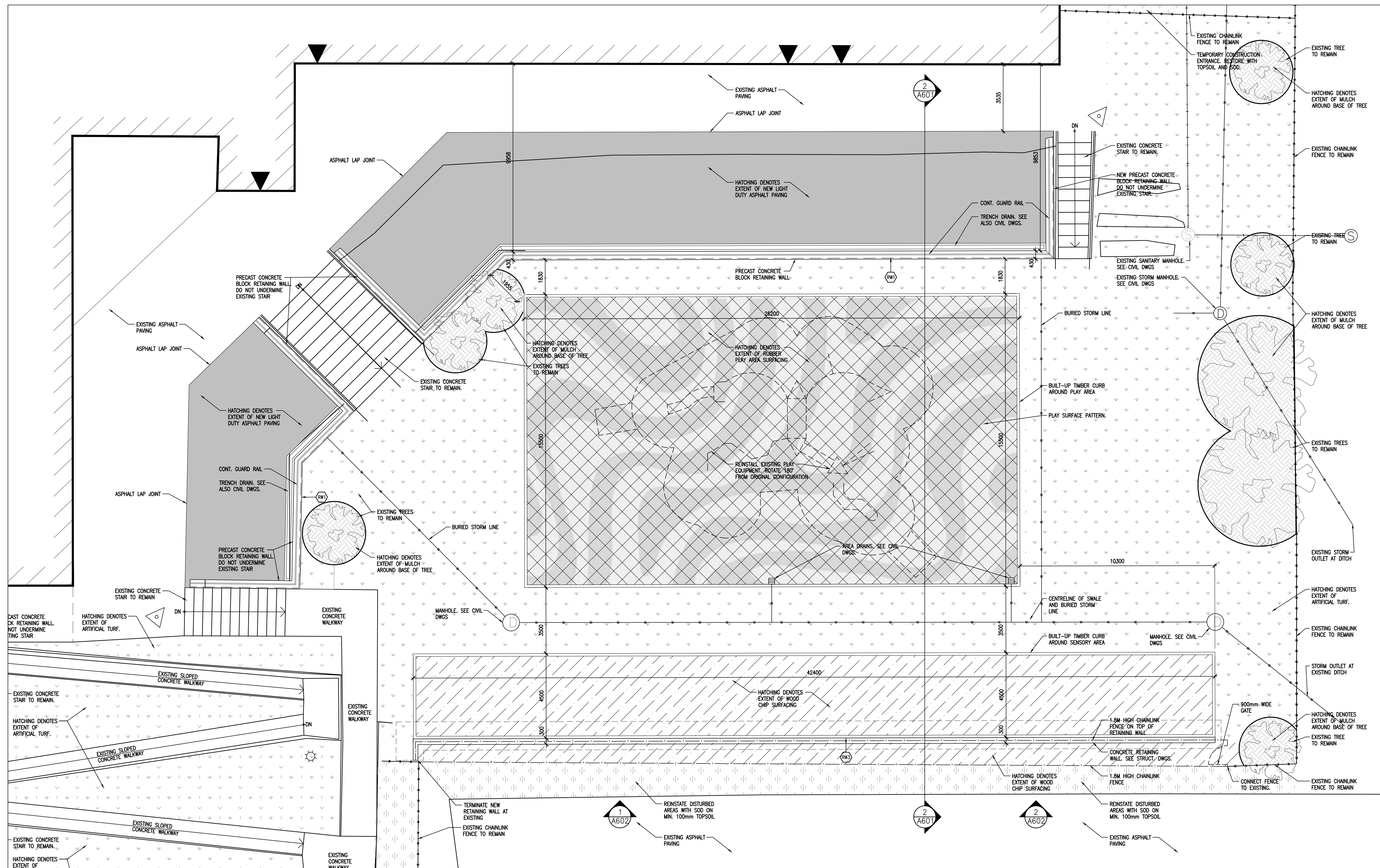
PROJECT NO: DRAWING NO:

25196 A102



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1	ISSUED FOR REVIEW	MAR. 24, 2026	BBA
2	ISSUED FOR PERMIT & TENDER	MAR. 31, 2026	BBA



**1**  
**A104** PART SITE PLAN  
1:100

SITE PLAN LEGEND	
	HATCHING DENOTES SYNTHETIC RUBBER PLAY SURFACING. SEE SPECIFICATION FOR COMPOSITION.
	HATCHING DENOTES NEW ASPHALT PAVING. REFER TO ASPHALT COMPOSITION DETAIL AND SPECIFICATION.
	HATCHING DENOTES NEW ARTIFICIAL TURF SURFACING. SEE SPECIFICATION FOR COMPOSITION. ARTIFICIAL TURF SHALL TERMINATE AT DRIP LINE OF EXISTING TREES.
	HATCHING DENOTES NEW MULCH.
	HATCHING DENOTES NEW WOOD CHIP SURFACING. SEE SPECIFICATION FOR COMPOSITION.
	HATCHING DENOTES NEW SOD ON MIN. 100mm TOPSOIL.
	NEW STORM DRAIN PIPE. SEE CIVIL DWGS

RETAINING WALL LEGEND	
	NEW RETAINING WALL BY BRAMPTON BRICK. SEE SPECIFICATIONS.
	NEW EXTERIOR STEPS BY BRAMPTON BRICK. SEE SPECIFICATIONS.
	NEW CONCRETE RETAINING WALL. SEE STRUCTURAL DRAWINGS.



**PROJECT:**  
**ST JOSEPH BOWMANVILLE**  
**SITE DEVELOPMENT**

90 PARKWAY CRES.  
BOWMANVILLE, ON  
P4NDCDSB

**DRAWING:**  
**PART SITE PLAN**

DESIGN BY: BBA	SEAL: 2026-03-31 OF ARCHITECTS CASSANDRA ERIN CAULIUS LICENCE 8891
DRAWN BY: BBA	
CHECKED BY:	
DATE: MAR. 2026	
SCALE: 1:100	
PROJECT NO:	DRAWING NO:

**25196** **A104**

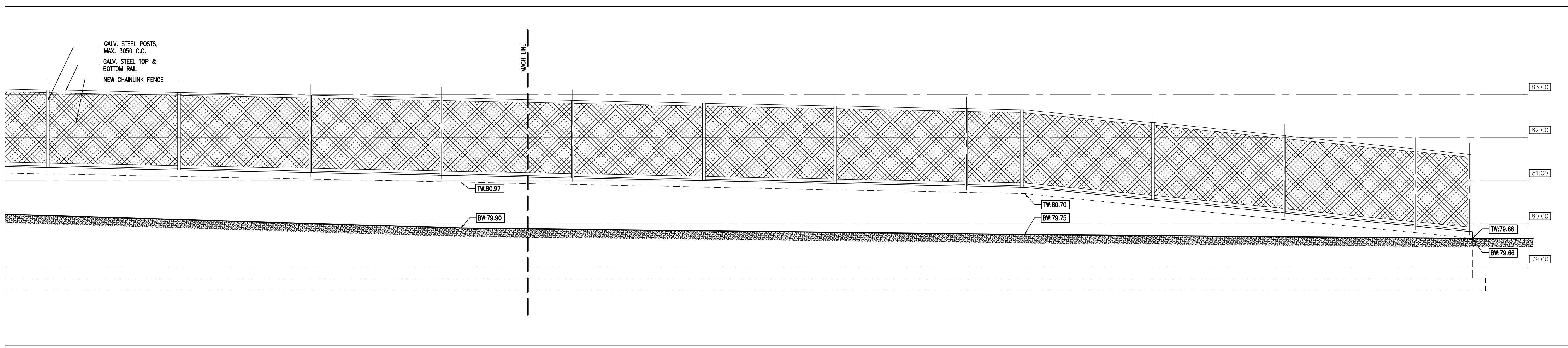


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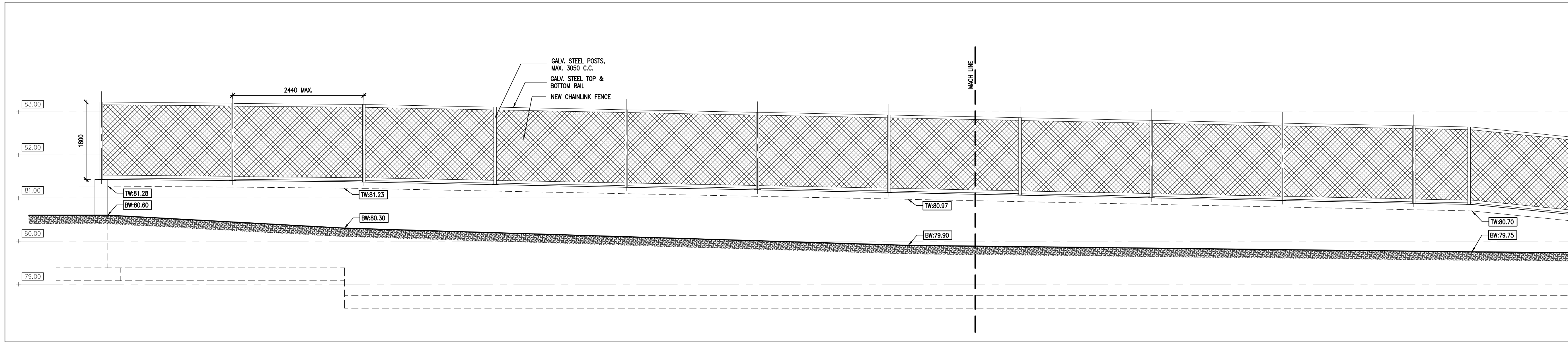
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2	ISSUED FOR CLIENT REVIEW	MAR. 24, 2026	BBA
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**2** SECTION  
A602 1:50



**1** SECTION  
A602 1:50



PROJECT:  
ST JOSEPH BOWMANVILLE  
SITE DEVELOPMENT

90 PARKWAY CRES.  
BOWMANVILLE, ON  
PVND05B

DRAWING:  
SECTIONS

DESIGN BY: BBA  
DRAWN BY: BBA  
CHECKED BY:  
DATE: MAR. 2026  
SCALE: AS NOTED



PROJECT NO: 25196  
DRAWING NO: A602

## GENERAL

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF ALL RELEVANT CODES AND STANDARDS.
- CONFORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
- SITE VERIFY ALL DIMENSIONS AND LEVELS.
- KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS.

## FOUNDATIONS

- FOUNDATION DESIGN BASED ON ASSUMED BEARING CAPACITY OF 100 kPa (SLS) AND 150 kPa (ULS) ON NATIVE MATERIAL. THE BEARING CAPACITY MUST BE CONFIRMED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED FILL AS APPROVED BY THE GEOTECHNICAL CONSULTANT. REPORT ANY DOUBTFUL BEARING CONDITIONS TO THE STRUCTURAL ENGINEER BEFORE PLACING FOOTING.
- MATERIALS FOR BACKFILL SHALL BE GRANULAR 'A' AND GRANULAR 'B' CONFORMING TO OPSS STANDARDS COMPACTED TO 98% STANDARD PROCTOR MAX. DRY DENSITY.
- ALL EXTERIOR FOOTINGS TO HAVE A MINIMUM 1200(4'-0") COVER TO FINISHED EXTERIOR GRADE FOR FROST PROTECTION UNLESS OTHERWISE NOTED.
- ALL PIERS AND FOOTINGS UNDER COLUMNS TO BE CENTRED UNDER THE COLUMNS UNLESS NOTED OTHERWISE ON THE PLAN.

## EXCAVATION, BACKFILLING AND GRADING

### CODES, REGULATIONS

- CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND THE WORKPLACE HEALTH AND SAFETY ACT.
- PROVIDE MINIMUM 8" TOPSOIL BELOW ANY DISTURBED GREEN SPACE AREAS TO BE RESTORED PRIOR TO SOODING.

### EXAMINATION

- BEFORE TENDERING THE WORK, THE CONTRACTOR SHALL EXAMINE THE SITE AND ASCERTAIN THE EXTENT AND NATURE OF THE MATERIAL IT MAY BE NECESSARY TO REMOVE TO PROVIDE FOR THE DEPTHS, LEVELS, AND GRADES REQUIRED, TO ASSURE HIMSELF THAT HIS DETERMINATIONS ARE MADE IN CONFORMITY WITH THE DRAWINGS AND SPECIFICATIONS.

### SETTING OUT WORK

- THE DRAWINGS INDICATE THE SITE COMPONENTS LOCATION, AND PROPOSED AND FINAL GRADES. BE RESPONSIBLE TO CONSTRUCT THE WORK ACCORDING TO LEVELS AND LOCATIONS SHOWN ON THE DRAWINGS. REPORT ANY ERRORS OR DISCREPANCIES TO THE CONSULTANT BEFORE COMMENCING WITH THE WORK. COMMENCEMENT OF ANY PART OF THE WORK SHALL CONSTITUTE ACCEPTANCE OF DRAWINGS AS BEING CORRECT.
- EMPLOY A COMPETENT INSTRUMENT MAN AND PROVIDE ALL LINES AND LEVELS. LIMIT LINES AND BOUNDARY STAKES FOR THE EXECUTION OF THE WORK AS REQUIRED. ALL BENCH MARKS SHALL BE CAREFULLY PROTECTED.
- ALL SUBCONTRACTORS WITH, AND BE RESPONSIBLE FOR, ALL LINES, LEVELS AND DIMENSIONS WHICH SUCH TRADES REQUIRE TO RELATE THEIR WORK TO THE WORK OF THE CONTRACTOR OR OTHER TRADES. ALL TRADES SHALL BE NOTIFIED THAT ALL SUCH LEVELS AND DIMENSIONS MUST BE OBTAINED FROM THE CONTRACTOR.

### PROTECTION

#### A. PROTECTION OF EXISTING SERVICES

- BEFORE STARTING THE WORK, VERIFY THE LOCATION OF ALL KNOWN UNDERGROUND SERVICES AND UTILITIES OCCURRING IN THE WORK SITE AREA.
- NOTIFY THE OWNER, PUBLIC UTILITY OR MUNICIPAL AUTHORITIES IN ADVANCE OF PLANNED EXCAVATIONS ADJACENT TO THEIR SERVICES.
- TAKE CARE NOT TO DAMAGE OR DISPLACE ENCOUNTERED KNOWN AND UNKNOWN SERVICES.
- 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:
  - KNOWN SERVICES, REPAIR AT NO EXPENSE TO THE OWNER.
  - UNKNOWN SERVICES, FORWARD TO THE CONSULTANT A COMPLETE BREAKDOWN OF THE ESTIMATED COST OF SUCH WORK. PROCEED ONLY UPON WRITTEN AUTHORIZATION.
- IN THE CASE OF DAMAGE TO, OR CUTTING OFF OF AN ESSENTIAL SERVICE, NOTIFY CONSULTANT, THE OWNER, AND PUBLIC UTILITY OR MUNICIPAL AUTHORITIES IMMEDIATELY AND REPAIR THE SERVICE UNDER THE CONSULTANT'S DIRECTION.
- BACKFILL
  - ASSUME REUSE EXISTING COMPACT SOIL AND INELL BALANCE OF GRANULAR MATERIAL/TOPSOIL AS REQUIRED TO ACCOMPLISH WORK ON PROJECT.
  - ALL FILL SHALL BE STORED ON SITE IN A LOCATION APPROVED BY THE OWNER/CONSULTANT AND SHALL BE PROTECTED AS REQUIRED FOR RE-USE.

### EXCAVATION WORK

- REMOVE ALL CONCRETE, MASONRY, RUBBLE OR OTHER CONSTRUCTION DEBRIS ENCOUNTERED DURING THE WORK.
- KEEP EXCAVATION FREE OF WATER BY BAILING, PUMPING OR A SYSTEM OF DRAINAGE AS REQUIRED AND PROVIDE PUMPS, SUCTION AND DISCHARGE LINES OR WELL POINTS OF SUFFICIENT CAPACITY AND MAINTAIN UNTIL SUCH TIME AS THE PERMANENT DRAINAGE SYSTEM IS INSTALLED OR UNTIL THE CONSULTANT'S APPROVAL OF REMOVAL OF EQUIPMENT IS OBTAINED. TAKE ALL NECESSARY MEASURES TO PREVENT FLOW OF WATER INTO THE EXCAVATION.
- PROTECT THE BOTTOM AND SIDES OF EXCAVATED PITS AND TRENCHES FROM FREEZING. PROTECT ALSO FROM EXPOSURE TO THE SUN AND WET WEATHER TO PREVENT CAVE-INS AND SOFTENING OF THE BED UPON WHICH CONCRETE OR DRAINS REST.
- EXCAVATIONS MUST NOT INTERFERE WITH THE NORMAL 45 DEGREE PLANE OF BEARING FROM THE BOTTOM OF ANY FOOTING.
- KEEP BOTTOMS OF EXCAVATIONS CLEAN AND CLEAR OF LOOSE MATERIALS LEVELLED AND STEPPED AT CHANGES OF LEVELS WITH EXCEPTION OF EXCAVATIONS MADE FOR DRAINAGE PURPOSES AND THOSE SLOPE AS REQUIRED.
- 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 CAN BE TAKEN.

### BACK FILLING

- PROCEED PROMPTLY WITH BACKFILLING AS THE BUILDING REPAIRS PROGRESSES, AND AS WORK TO BE BACKFILLED HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANT. THE BACKFILL SHOULD BE PLACED IN LIFTS NOT GREATER THAN 200mm THICK IN THE LOOSE STATE, EACH LIFT BEING COMPACTED WITH A SUITABLE COMPACTOR TO THE SPECIFIED DENSITY.
- DO NOT COMMENCE BACKFILLING OPERATIONS UNTIL SITE DRAINAGE SYSTEMS AND WATERPROOFING HAS BEEN INSPECTED AND APPROVED BY CONSULTANT.
- WITHDRAW SHORING MATERIAL DURING BACKFILL. LUMBER LEFT IN PLACE WITHOUT THE CONSULTANT'S APPROVAL WILL NOT BE PAID FOR BY THE OWNER.
- WHERE FILL IS PLACED ADJACENT TO STRUCTURES OR VULNERABLE BUILDING COMPONENTS OR IN RESTRICTED AREAS, THE FILL SHALL BE COMPACTED TO THE SAME DEGREE AS SPECIFIED BY SUITABLE EQUIPMENT APPROVED BY THE CONSULTANT. AVOID DAMAGE TO OR DISPLACEMENT OF EXISTING/NEW STRUCTURES.
- ADD WATER IN AMOUNTS REQUIRED ONLY TO ACHIEVE THE OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557.
- BACKFILL SHALL BE FREE OF SNOW AND ICE, TOPSOIL, CONSTRUCTION DEBRIS AND OVERSIZED BOULDERS GREATER THAN 150mm.

## CONCRETE

- CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1 AND CAN/CSA-A23.3 WITH THE FOLLOWING PROVISION:

LOCATION	DESIGN STRENGTH (28 DAYS)	SLUMP	EXPOSURE CLASS
EXTERIOR FOOTINGS/ FOUNDATION WALLS AND PIERS	25 MPa	80± 30	F-2
ALL EXTERIOR REINFORCED CONCRETE (STAIRS & RETAINING WALLS)	35 MPa U.N.O.	80± 30	C-1
EXTERIOR UN-REINFORCED CONCRETE (CURBS & CONCRETE WALKWAYS)	32 MPa U.N.O.	80± 30	C-2

- NO ADDITIONAL WATER SHALL BE ADDED AT THE JOB SITE. CONCRETE WHICH HAS BEEN WATERED OR DOES NOT MEET SPECIFICATIONS SHALL BE REJECTED.
- DURING WINTER WEATHER BELOW 5 °C PROVIDE TEMPORARY HEATING OF CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1, LATEST EDITION.
- STRUCTURAL GROUT SHALL BE NON-SHRINK, NON METALLIC M-BED STANDARD PREMIX BY SIKA OR APPROVED EQUAL.
- WHEN PIPES, CONDUITS, OR SLEEVES ARE REQUIRED TO PENETRATE CONCRETE ASSEMBLIES, THE FOLLOWING SHALL BE OBSERVED:
  - SPACING OF SUCH ITEMS SHALL BE 3x DIAMETER C/C.
  - CONCRETE SHALL NOT BE PENETRATED WITHIN 600mm (24") OF CONCENTRATED LOADS.
  - ANY PENETRATIONS SHALL BE A MINIMUM OF 600mm (24") FROM ALL EDGES, SUCH AS ENDS AND TOPS OF WALLS.
  - FOR ANY PENETRATIONS GREATER THAN 300mm (12"), CONSULT THE ENGINEER FOR REVIEW AND DETERMINATION OF EXTRA REINFORCEMENT REQUIREMENTS.

## CONCRETE REINFORCEMENT

- THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

LOCATION	CLEAR COVER
FOOTINGS	75mm(3") UNDERSIDE 50mm(2") TOP AND ENDS
WALLS	50mm(2") AGAINST EARTH (20M BAR OR GREATER) 40mm(1 1/2") AGAINST EARTH (15M BAR)
SURFACE IN CONTACT WITH GROUND	75mm(3")

- DETAIL REINFORCING STEEL IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- REINFORCING BAR SPLICES FOR DEFORMED BARS:
  - COLUMNS - COMPRESSION LAP UNLESS NOTED
  - WALLS - CLASS 'B' TENSION SPLICE UNLESS NOTED
  - ALL OTHERS - CLASS 'B' TENSION LAP UNLESS NOTED
- ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL CONFORMING TO CSA C30.18 GRADE 400.
- WELDED STEEL WIRE FABRIC, PLAIN TYPE CONFORMING TO ASTM A1064/A1064M-17 IN FLAT SHEETS NOT ROLLED.
- ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIED WITH APPROVED BAR SUPPORTS.
- PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA A23.1 AND CSA A23.3 CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE. ALL THE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR PROTECTED WITH ACCEPTABLE COATING.
- CHAIRS SHALL BE SPACED AT 1200mm(4'-0") O.C. MAXIMUM.

## TEMPORARY WORKS

- THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.
- IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADS AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE WORKS IN PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION.
- ACCESS OF HEAVY CONSTRUCTION EQUIPMENT AND ACCUMULATION OF CONSTRUCTION MATERIALS ON THE FLOORS ARE NOT PERMITTED, UNLESS SUCH HAVE BEEN CATERED FOR IN THE CONTRACTOR'S TEMPORARY WORK DESIGN TO THE SATISFACTION OF THE ARCHITECT.
- SUBMIT SHOP DRAWINGS FOR ALL TEMPORARY WORKS FOR REVIEW BEFORE FABRICATION COMMENCES. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

## INSPECTIONS AND TESTING

- THE FOLLOWING ITEMS SHALL BE INSPECTED OR TESTED BY INDEPENDENT INSPECTION/ TESTING AGENCIES DESIGNATED BY THE CLIENT. MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REJECTED BY THE CONTRACTOR. REPORTS AND TEST RESULTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW. TESTING SHALL INCLUDE BUT NOT BE LIMITED TO:

### CONCRETE

- CONCRETE AND GROUT TESTING IN ACCORDANCE WITH CSA A23.2 LATEST EDITION AND THE SPECIFICATIONS, INCLUDING THE REQUIREMENTS OF SLUMP, AIR AND AGE PRIOR TO BEING USED. CONTRACTOR TO KEEP RECORDS OF POUR DATES, TESTING PERFORMED, CLASS OF CONCRETE USED AND TEST RESULTS FOR ALL ITEMS POURED.
- TESTING TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE FOR EARLY FORM REMOVAL PURPOSES WITH THE TYPE OF TEST BEING DETERMINED ON THE ADVICE OF THE TESTING AGENCY. REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE MADE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- APPROVAL OF CONCRETE AND MORTAR MIX DESIGNS.
- TESTING AS REQUIRED AND SPECIFIED BY THE ENGINEER TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE WHICH FAILS TO MEET THE SPECIFIED REQUIREMENTS OR WHICH, DUE TO APPEARANCE, DAMAGE, OR DEFECTS MAY BE DEEMED REJECTABLE. CORES SHALL BE ACQUIRED AND TESTED BY THE DESIGNATED TESTING AGENCY BUT ANY REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE PERFORMED AT NO COST TO THE OWNER.

### REINFORCING STEEL

- CONTRACTOR SHALL ADVISE BARRY BRYAN ASSOCIATES (1991) LTD. OF REQUIRED REINFORCING STEEL INSPECTIONS AT LEAST 24 HOURS PRIOR TO CLOSING OF COLUMN OR WALL FORMS AND 24 HOURS PRIOR TO PLACING OF CONCRETE IN SLABS, FOOTINGS, ETC.

## SHOP DRAWINGS AND SUBMITTALS

### GENERAL

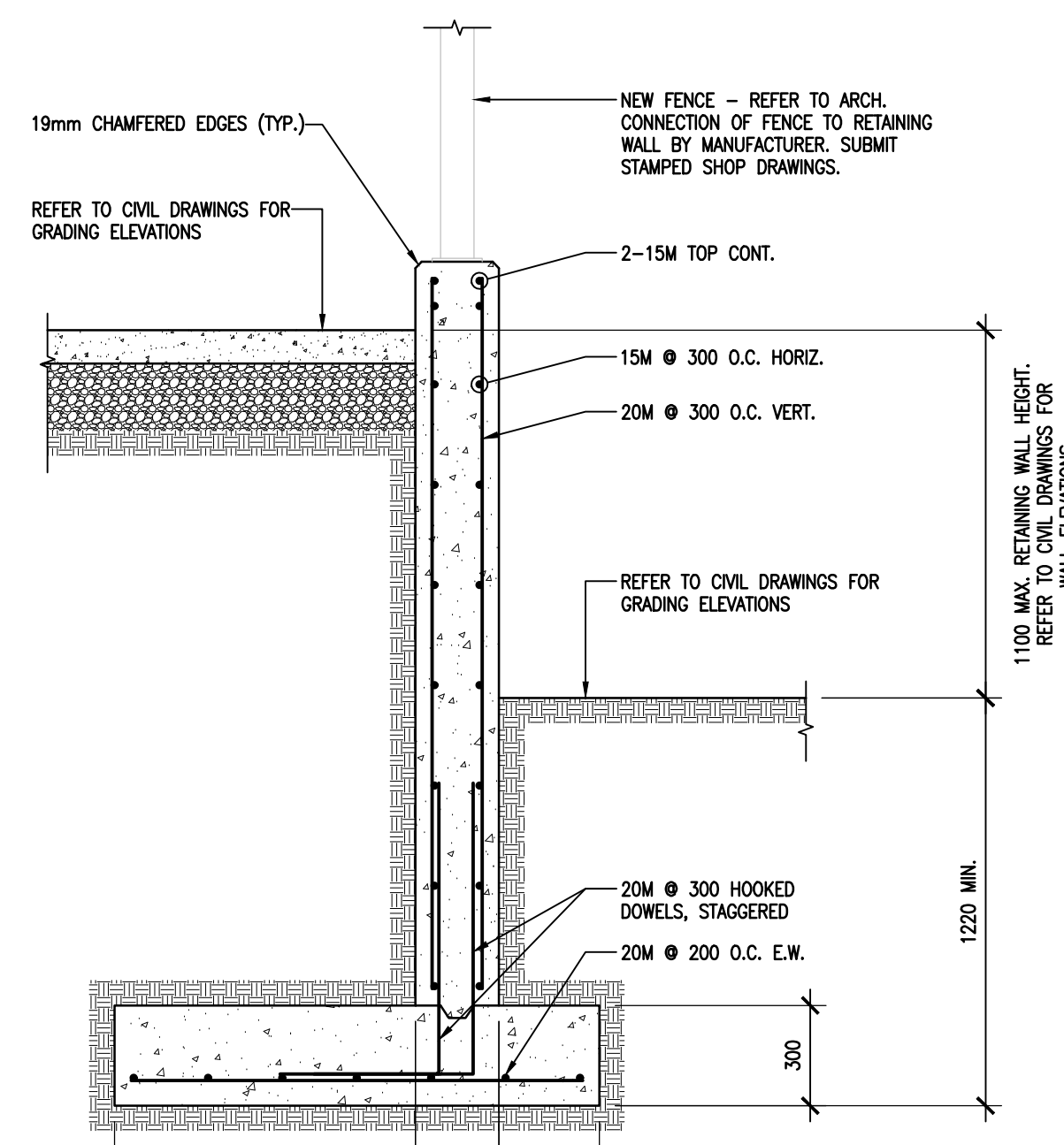
- REPRODUCTIONS OF THE STRUCTURAL DRAWINGS SHALL NOT BE ACCEPTED AS SHOP DRAWINGS. "PROFESSIONAL ENGINEER" IN THE FOLLOWING PARAGRAPHS SHALL BE REGISTERED AND LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
- REVIEW OF DRAWINGS APPLIES TO GENERAL ARRANGEMENT ONLY FOR THE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW DOES NOT IMPLY APPROVAL OF DETAIL DESIGN OR QUANTITIES IN SUBMITTED DRAWINGS, NOR DOES IT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR MAKING THE WORK COMPLETE, ACCURATE AND IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. ALLOW 10 WORKING DAYS FOR SHOP DRAWING REVIEW.
- DO NOT FABRICATE MATERIALS BASED ON REJECTED OR DISAPPROVED SHOP DRAWINGS.
- SHOP DRAWING SUBMITTALS SHALL ALSO INCLUDE FENCE CONNECTION DETAILS AND ANY ELEMENTS DESIGNED BY THE CONTRACTOR'S FORCES WHICH SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH N.B.C. SECTIONS 2.3.4.4 AND 2.3.4.5 LATEST EDITIONS.

### REINFORCED CONCRETE

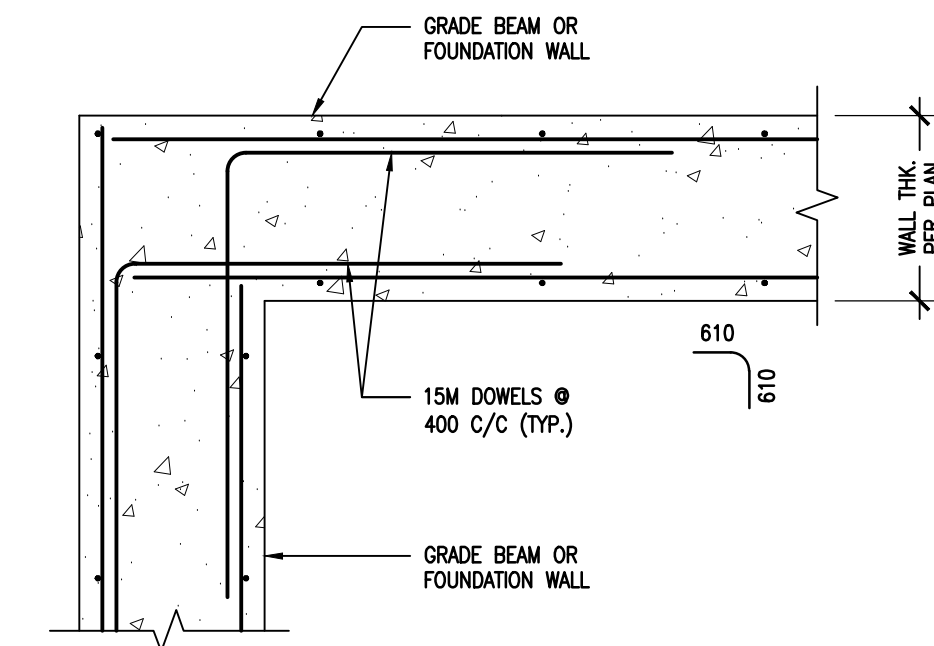
- SUBMIT FOR REVIEW 2 COPIES OF REINFORCEMENT PLACING DRAWINGS AND BARLISTS FOR EVERY PORTION OF THE STRUCTURE. SHOW WALLS IN FULL ELEVATION. SHOW SLABS WITH REINFORCING STEEL CALLED UP DIRECTLY ON PLAN.
- PROVIDE DETAILS OF DESIGN AND CONSTRUCTION OF FORMS AND FALSEWORK, SHORING AND RESHORING AND ANY SPECIAL REQUIREMENTS FOR STRIPPING OF FORMWORK. ALL SUCH DESIGN SHEETS SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER.
- SUBMIT FOR REVIEW ALL PROPOSED CONCRETE MIX DESIGNS. SUBMIT AT LEAST 15 WORKING DAYS PRIOR TO START OF WORK.
- SUBMIT FOR REVIEW DRAWINGS OF ALL PROPOSED CONSTRUCTION JOINTS LOCATIONS, AND LAYOUT DRAWINGS OF CONCRETE ISOLATION AND HOUSEKEEPING PADS.
- REGULARLY SUBMIT REPORTS OF ALL CONCRETE TESTING AS SOON AFTER TESTING IS PERFORMED AS POSSIBLE.

### RECORD DRAWINGS

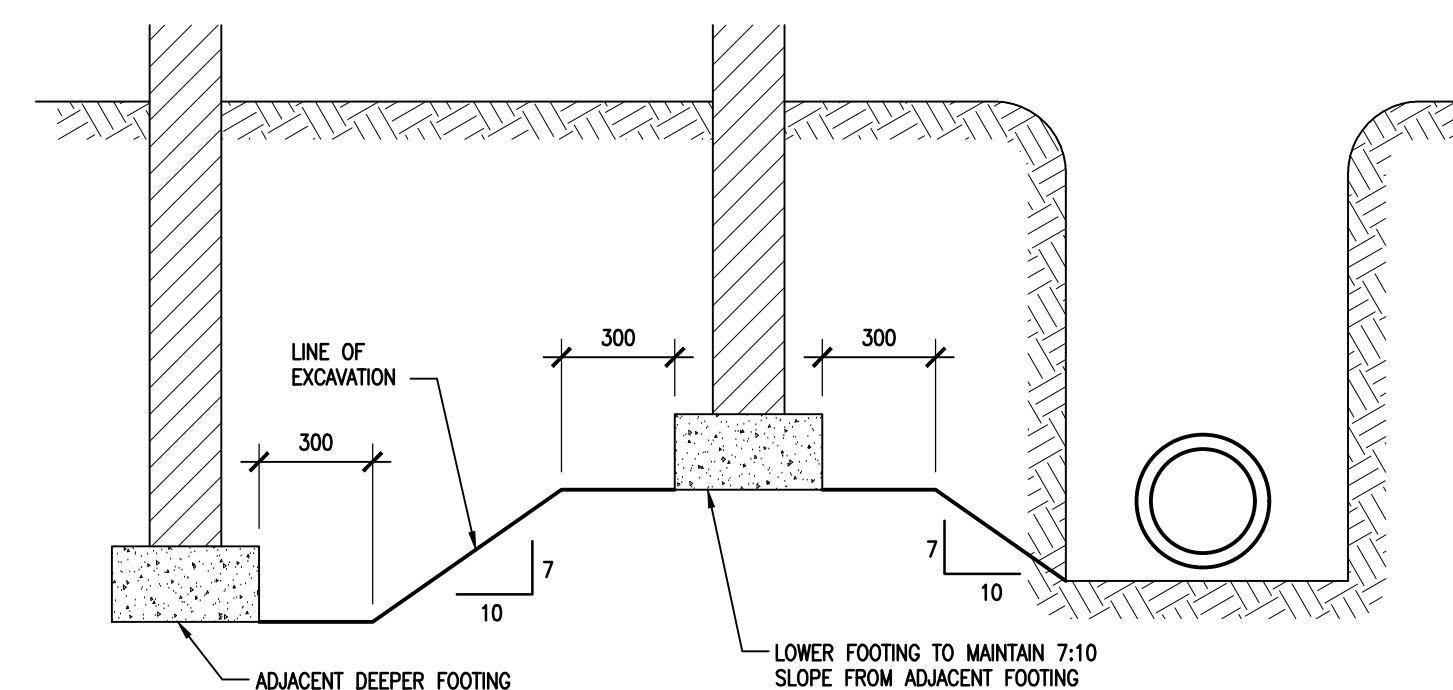
- GENERAL CONTRACTOR SHALL MAINTAIN TWO SETS OF RECORD DRAWINGS WHICH SHOW AS-BUILT DETAILS OF ALL ASPECTS OF THE STRUCTURE, FOR REVIEW DURING CONSTRUCTION AND FOR SUBMISSION AT THE END OF THE PROJECT.



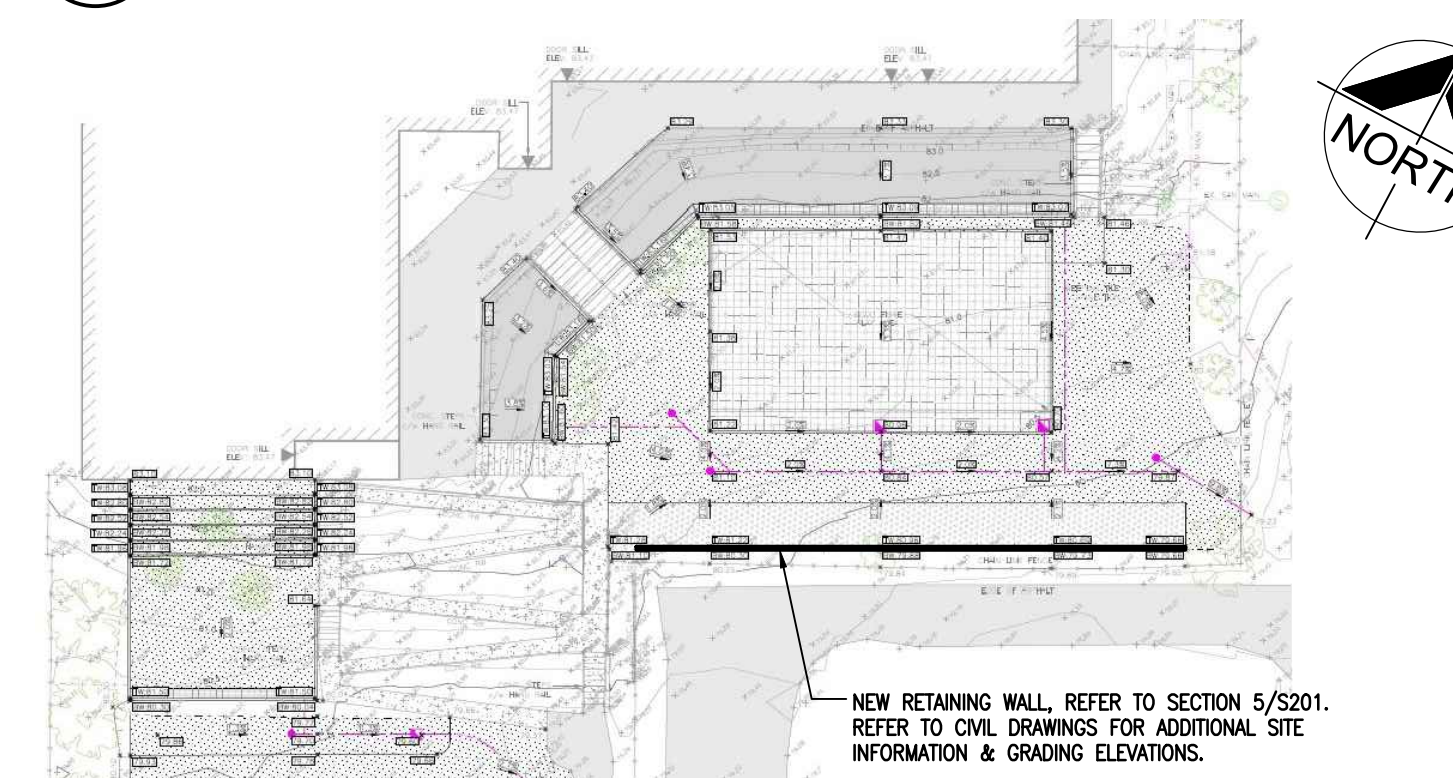
5 (TYP.) RETAINING WALL SECTION  
S201



4 TYP. WALL REINF. AT WALL CORNERS  
S201



3 SLOPE REQUIREMENTS OF ADJACENT FOOTING  
S201



2 PART PLAN  
S201



1 LOCATION PLAN  
S201

DO NOT SCALE THE DRAWINGS. CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.

DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES/ REVISIONS	DATE	BY
1	ISSUED FOR 60% REVIEW	MAR. 13, 2026	BBA
2	ISSUED FOR 90% REVIEW	MAR. 23, 2026	BBA
3	ISSUED FOR PERMIT & TENDER	MAR. 31, 2026	BBA

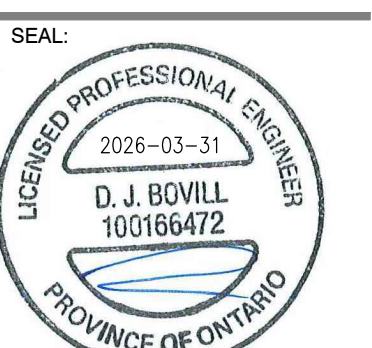


PROJECT:  
**UPGRADES AT ST. JOSEPH CATHOLIC ELEMENTARY SCHOOL**

90 PARKWAY CRESCENT,  
BOWMANVILLE, ONTARIO  
PETERBOROUGH VICTORIA NORTHUMBERLAND CLARINGTON  
CATHOLIC DISTRICT SCHOOL BOARD (PVNCCDSB)

DRAWING:  
GENERAL NOTES, LOCATION  
PLANS, PART PLAN,  
SECTIONS & DETAILS

DESIGN BY:  
SJ  
DRAWN BY:  
JMM  
CHECKED BY:  
SJ  
DATE:  
MARCH 2026  
SCALE:  
AS NOTED



PROJECT NO:

25196

DRAWING NO:

S201







