

FILE PATH: P:\Belleville Project\5000\2135515 - Pickering Fire Hall #2 Pickering Fire Hall #2 Pickering Fire Hall #2 PER OPSPACOMMENTS\Submittal 396\0203.dwg
 DATE PLOTTED: 2024 / 02 / 06 @ 02:27 PM
 BORDER SIZE: ISO A1 (841mm x 594mm)
 PLOT SCALE: 1:1
 (METRIC SCALE - ALL DIMS IN METERS U.N.O.)

ONTARIO PROVINCIAL STANDARD SPECIFICATIONS:

THE ONTARIO PROVINCIAL AND LOCAL MUNICIPAL STANDARDS WILL APPLY TO ALL RELEVANT WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN, MAINTAIN AND REFERENCE THESE FOR THE DURATION OF THIS WORK.

GENERAL NOTES

- ALL DISTURBED AREAS SHALL BE REINSTATED TO EXISTING CONDITIONS OR BETTER, UNLESS OTHERWISE NOTED, TO THE SATISFACTION OF THE OWNER.
- EXISTING STRUCTURES ARE NOT TO BE DISTURBED, NOR ENCROACHMENT ON ADJACENT PROPERTIES UNLESS INSTRUCTED BY THE OWNER.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC.
- ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE SITE PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED BEFORE PROCEEDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES AS PER OPSS 706 AND THE ONTARIO TRAFFIC MANUAL BOOK 7 DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS, BARRIERS, FLAGMEN, ETC.
- ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- THE OWNER IS TO BE NOTIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- SUBGRADE TO BE PROOF-ROLLED TO CONFIRM SUITABLE SUB-GRADE CONDITIONS PRIOR TO PLACEMENT OF GRANULAR. PROOF ROLLING TO BE COORDINATED WITH AND OBSERVED BY GEOTECHNICAL CONSULTANT STAFF.
- NO BLASTING IS PERMITTED.

SEDIMENTATION AND EROSION CONTROL DURING CONSTRUCTION

CONTROL OF EROSION ON CONSTRUCTION SITES, AND THE REMOVAL OF SEDIMENTS FROM CONSTRUCTION SITE RUN-OFF IS VERY IMPORTANT. DOWNSTREAM AREAS ARE TO BE PROTECTED DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO PROVIDE AN EROSION CONTROL PLAN FOR APPROVAL BY THE OWNER PRIOR TO START OF CONSTRUCTION THAT CLEARLY DEMONSTRATES HOW THE FOLLOWING TECHNIQUES WILL BE IMPLEMENTED.

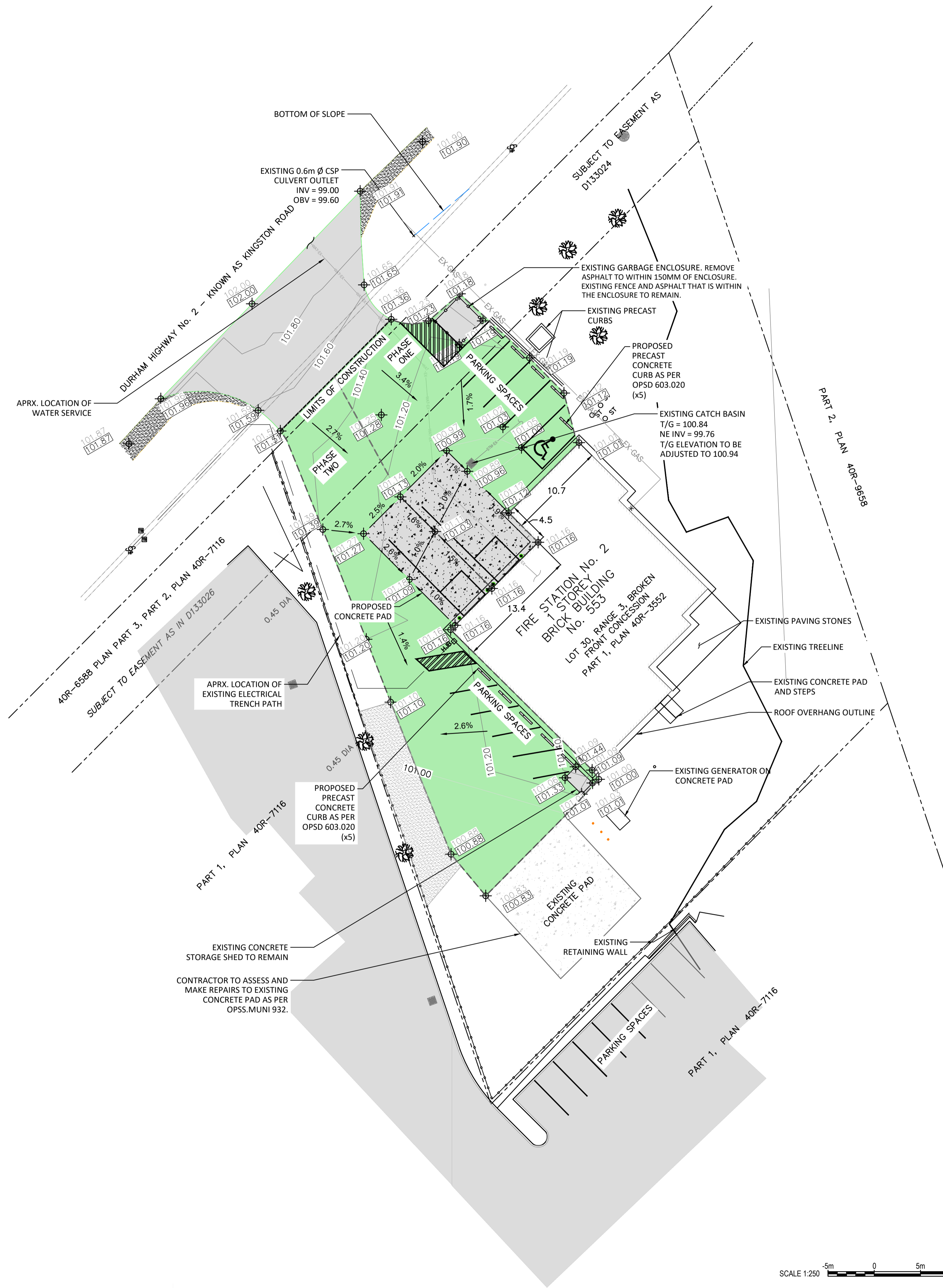
- CONTROL/LIMIT VEHICLE ACCESS TO AND AROUND THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF DISTURBANCE OF NATURAL VEGETATION.
- EXISTING ROADWAYS TO BE SWEEPED AND CLEANED FREQUENTLY TO PREVENT THE TRACKING OF MUD AND DEBRIS FROM SITE.
- ALL DISTURBED AREAS ON AND OFF SITE ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED. RE-VEGETATION OF DISTURBED AREAS IS TO BE COMPLETED AS SOON AS POSSIBLE.
- EXPOSED SLOPES TO BE PROTECTED WITH NATURAL OR SYNTHETIC MULCHES/BLANKETS WHERE EROSION IS POSSIBLE.
- ALL CATCH BASINS AND MANHOLES WHICH MAY COLLECT SEDIMENT FROM DISTURBED AREAS SHALL HAVE FILTER CLOTH INSTALLED BETWEEN THE FRAME AND THE COVER, OR OTHER APPROVED MEANS OF SEDIMENTATION CONTROL.
- LIGHT DUTY SILT FENCE (OPSD 219.110) TO BE INSTALLED ON THE DOWNSTREAM PERIMETER OF ALL DISTURBED AREAS AND STOCKPILES.
- RIP RAP (OPSD 219.210) OR FILTER SOCK CHECK DAMS (TRCA ESC DESIGN DETAIL - SEDIMENT TRAP IN EARTHEN DITCH) TO BE PROVIDED WHERE FLOW CONCENTRATIONS ARE EXPECTED, INCLUDING IN SWALES AND UPSTREAM OF CULVERTS AND CATCH BASINS.
- ALL EROSION CONTROL MEASURES TO BE MAINTAINED UNTIL THE CONTRIBUTING SURFACES HAVE BEEN ADEQUATELY STABILIZED I.E. ASPHALT, SOD OR 80% GRASS COVERED, TO THE SATISFACTION OF THE OWNER.
- A VISUAL INSPECTION IS TO BE DONE DAILY AND SEDIMENT CONTROL MEASURES ARE TO BE CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OF AS PER THE REQUIREMENTS OF THE CONTRACT.
- IN SOME CASES FILTER BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS WILL BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A RUN-OFF OR PREDICTED RAINFALL EVENT UNLESS A NEW DEVICE HAS BEEN INSTALLED TO ENSURE THE CONTAINMENT OF EROSION OR SILTATION
- NO REFUELING OR CLEANING OF EQUIPMENT NEAR ANY EXISTING WATERWAYS.
- PROPOSED SWALES AND DITCHES AS PER DESIGN DRAWINGS SHALL BE CONSTRUCTED AND IMMEDIATELY TREATED WITH TOPSOIL AND SOD.
- DEWATERING TRAPS AS PER OPSD 219.240 TO BE USED TO PREVENT SEDIMENT LADEN WATERS FROM FLOWING OFF SITE WHERE NEEDED.

PAVEMENT DESIGN NOTES

- TACK-COAT HOT MIX SUBSTRATE AS PER SECTION 32 12 16 - ASPHALT PAVING, PRIOR TO PLACING SURFACE COURSE LIFT OF HOT MIX
 - ALL HOT MIX PAVING OPERATIONS SHALL BE IN ACCORDANCE WITH OPSS 310 & OPSS 1150/ OPSS 1151, AS SPECIFIED IN SECTION 32 12 16 FOR ASPHALT PAVING
 - REMOVE BOULDERS (IF ENCOUNTERED) FROM SUBGRADE SURFACE AS PER OPSD 204.010.
 - REMOVE ALL ORGANIC SOIL FROM THE SUBGRADE SURFACE.
 - SUBGRADE SOIL TO BE PROOF - ROLLED WITH HEAVY COMPACTION EQUIPMENT AND APPROVED BY GEOTECHNICAL CONSULTANT TO ENSURE THAT IT IS ACCEPTABLE FOR PLACEMENT OF NEW GRANULAR BASE AND SUBBASE MATERIALS.
 - GRANULAR COMPACTION REQUIREMENTS ARE AS PER SECTION 32 11 16.01 FOR GRANULAR MATERIAL
 - UTILIZING SOIL PLACEMENT IN MAXIMUM 150mm LIFTS AND A COMPACTION STANDARD OF 100% STANDARD PROCTER
 - MAXIMUM DRY DENSITY.
 - WHERE NEW ASPHALT MEETS EXISTING, A "LAP JOINT" IS TO BE CONSTRUCTED PER THE DETAIL PROVIDED.
 - FILL MATERIAL REQUIRED TO INCREASE THE GRADE TO THE UNDERSIDE OF PAVEMENT SHALL BE GRANULAR A COMPACTED AS SPECIFIED.
 - THE FIRST LIFT TO FILL IS TO BE INSTALLED WITH A MINIMUM LOOSE THICKNESS OF 300MM TO MITIGATE DISTURBANCE OF THE ORIGINAL SUBGRADE SOIL.
 - WHERE THE SUBGRADE MATERIAL TYPES DIFFER BELOW THE UNDERSIDE OF THE PAVEMENT STRUCTURE (I.E. CLAYEY SILT TO BEDROCK) THE TRANSITION BETWEEN THE MATERIALS SHALL BE SLOPED AT 10H:1V OR FLATTER.
 - ALL SAW CUTTING REQUIRED AND FINE GRADING PRIOR TO PAVING ARE TO BE INCLUDED.
- PAVEMENT REHABILITATION TO BE PER GEOTECHNICAL REPORT INCLUDING:
- 40mm HL3 HS.
 - 50mm HEAVY DUTY BIND COURSE
 - 150mm COMPACTED GRANULAR 'A' BASE (EXISTING GRAN. 'A' ON SITE IS ACCEPTABLE FOR REUSE PER THE GEOTECHNICAL REPORT, UNLESS OTHERWISE SPECIFIED)

THE LOCATION OF UTILITIES AND SERVICES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.

PROPERTY LINES SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED BY THE MUNICIPALITY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING PROPERTY LIMITS WITH AN OLS AS MAY BE REQUIRED.



GREER GALLOWAY CONSULTING ENGINEERS
 PETERBOROUGH
 BELLEVILLE
 KINGSTON
 1620 WALLBRIDGE LOYALIST ROAD
 BELLEVILLE, ONTARIO, K8N 4Z5
 PHONE: 613-966-3068
 FAX: 613-966-3087

- NOTES:**
- ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES.
 - ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.
 - ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIVALENT.
 - CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.
 - CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.
 - ANY CHANGES MUST BE APPROVED BY THE ENGINEER.

| | |
|-----|--------------------------------|
| (A) | A DETAIL NO. |
| (B) | B DRAWING NO. - WHERE DETAILED |

| EXISTING | DESCRIPTION | PROPOSED |
|----------|--------------------|----------|
| | ASPHALT | |
| | GRAVEL SHOULDER | |
| | GRANULAR | |
| | PROPERTY LINE | |
| | CENTRELINE | |
| | EDGE OF PAVEMENT | |
| | BACK OF CURB | |
| | STORM SEWER | |
| | SANITARY SEWER | |
| | OVERHEAD HYDRO | |
| | UNDERGROUND GAS | |
| | WATER MAIN | |
| | CONCRETE | |
| | HYDRO POLE | |
| | HYDRANT | |
| | GATE VALVE | |
| | CATCH BASIN | |
| | MAINTENANCE HOLE | |
| | BUILDING | |
| | GAS METER | |
| | HYDRO JUNCTION BOX | |
| | SEPTIC TANK LID | |
| | BOLLARD | |
| | PHASING LINE | |

| | | |
|----|------------------------|----------|
| 02 | TRCA SUBMISSION | 22/08/30 |
| 01 | ISSUED FOR TRCA REVIEW | 22/07/15 |

| REVISION | DESCRIPTION | DATE |
|----------|-------------|------|
| | | |

PROJECT
PICKERING FIREHALL #2
 PARKING LOT
 RECONSTRUCTION
 553 KINGSTON RD, PICKERING, ON L1V 3N7

CITY OF PICKERING
 DRAWING TITLE
PICKERING FIREHALL #2
 SITE PLAN

DESIGNED BY
 N. JIANOPOULOS

DRAWN BY
 I. TODESCO

REVIEWED BY
 S. BLAKEY

APPROVED BY
 S. BLAKEY

PROJECT DATE
 2022/07/12
 (YY/MM/DD)

PROJECT #
 21-3-5515

DRAWING #
 C1

DRAWING SCALE (ISO A1)
 HOR: AS NOTED
 VER: AS NOTED

- NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES.
 2. ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.
 3. ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIVALENT.
 4. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.
 5. CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.
 6. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.

A A DETAIL NO.
 B B DRAWING NO. - WHERE DETAILED

| EXISTING | DESCRIPTION | PROPOSED |
|----------|--------------------|----------|
| | ASPHALT | |
| | GRAVEL SHOULDER | |
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| | OVERHEAD HYDRO | |
| | UNDERGROUND GAS | |
| | WATER MAIN | |
| | CONCRETE | |
| | HYDRO POLE | |
| | HYDRANT | |
| | GATE VALVE | |
| | CATCH BASIN | |
| | MAINTENANCE HOLE | |
| | BUILDING | |
| | GAS METER | |
| | HYDRO JUNCTION BOX | |
| | SEPTIC TANK LID | |
| | BOLLARD | |
| | PHASING LINE | |

| REVISION | DESCRIPTION | DATE |
|----------|------------------------|----------|
| 04 | TRCA SUBMISSION | 24/02/05 |
| 03 | TRCA SUBMISSION | 24/01/03 |
| 02 | TRCA SUBMISSION | 22/08/30 |
| 01 | ISSUED FOR TRCA REVIEW | 22/07/15 |

NORTH

PROJECT
**PICKERING FIREHALL #2
 PARKING LOT
 RECONSTRUCTION**
 553 KINGSTON RD, PICKERING, ON L1V 3N7

CITY OF PICKERING
 DRAWING TITLE
**PICKERING FIREHALL #2
 SITE PLAN - TRCA
 NOTES**

DESIGNED BY
N. JIANOPOULOS

DRAWN BY
I. TODESCO/C.WHALEN

REVIEWED BY
S. BLAKEY

APPROVED BY
S. BLAKEY

PROJECT DATE
2022/07/12
(YYYY/MM/DD)

PROJECT #
21-3-5515

DRAWING #
C2

DRAWING SCALE (ISO A1)
 HOR: AS NOTED
 VER: AS NOTED

- TRCA NOTES:
- MEANDER BELT AND 15M OFFSET REGULATED AREA ARE APPROXIMATE AND BASED ON TRCA REGULATION LIMIT 2020.
 - DISTURBED AREAS TO LANDSCAPED AREAS TO BE REINSTATED WITH SOD.
 - DISTURBED AREAS TO NATURALIZED AREAS TO BE REINSTATED WITH HYDROSEED USING THE "TRCA UPLAND SLOPE MIX" (TRCA-SD-3) AS OUTLINED IN THE TRCA SEED MIX GUIDELINE (JANUARY 2022).
 - SOIL STOCKPILES SHALL BE STABILIZED USING THE SEED MIX PROPOSED.
 - SOILS IN DISTURBED AREAS ARE TO BE DE-COMPACTED AND GRADED TO RESTORE EXISTING CONDITIONS PRIOR TO SEED OR SOD APPLICATION
 - CONTRACTOR IS TO DESIGNATE OR APPOINT AN ENVIRONMENTAL MONITOR TO THE SITE.
- SECTION 1: SITE MANAGEMENT
- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
 - DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
 - ALL IN-WATER AND NEAR-WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
 - THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED, AS NECESSARY.
 - AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS IMMEDIATELY AFTER INSTALLATION. INSPECTION OF ESC MEASURES TO BE WILL OCCUR, AT MINIMUM:
 - ON A WEEKLY BASIS;
 - PRIOR TO SIGNIFICANT RAINFALL EVENTS (MINIMUM PREDICTED 25MM OVER 24 HOURS);
 - AFTER EVERY RAINFALL/SNOWMELT EVENT; AND
 - DAILY DURING EXTENDED RAINFALL PERIODS.
 INSPECTIONS WILL FOCUS ON MEASURES RELATED TO EROSION AND SEDIMENT CONTROLS, DEWATERING OR UNWATERING, RESTORATION AND IN- OR NEAR- WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE TRCA ENFORCEMENT OFFICER AS WELL AS THE PROPONENT.
 - ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
 - ALL GRADES WITHIN THE REGULATORY FLOOD PLAIN WILL BE MAINTAINED OR MATCHED.
 - THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVORABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G., FUEL TANKS, PORTAPOTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
 - ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
 - ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.
- SECTION 2: CONSTRUCTION TIMING BEST MANAGEMENT PRACTICES
- PRIOR TO SITE DISTURBANCE THE CONTRACTOR/PROponent SHOULD ENSURE THAT THE WORKS ARE IN CONFORMANCE WITH THE MIGRATORY BIRDS CONVENTION ACT. PLEASE NOTE THAT THE GENERAL BREEDING BIRD TIMING WINDOW FOR THIS AREA IS APRIL 1ST TO AUGUST 31ST, HOWEVER, BREEDING ACTIVITIES MIGHT INITIATE PRIOR TO AND CONTINUE PAST THIS PERIOD.
 - WHERE IMPACTS TO LOCAL FISH POPULATIONS MAY OCCUR DURING THEIR SPAWNING, NURSERY AND MIGRATORY PERIODS, CONSTRUCTION TIMING WINDOWS SHOULD APPLY TO IN-WATER OR NEAR-WATER ACTIVITIES. THE PROPONENT/CONTRACTOR SHOULD CONFIRM APPLICABILITY AND DATES WITH APPROPRIATE PROVINCIAL AND FEDERAL AGENCIES.
- SECTION 3: FISH AND WILDLIFE RELOCATION
- FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA UNDER THE SUPERVISION OF QUALIFIED AQUATIC TECHNICAL STAFF. THE PROPONENT/CONTRACTOR SHOULD CONFIRM REQUIREMENTS DIRECTLY WITH MINISTRY OF NATURAL RESOURCES AND FORESTRY.
- SECTION 4: ENVIRONMENTAL COMPLIANCE
- PLEASE NOTIFY TRCA ENFORCEMENT OFFICER (MICHAEL BRESTANSKY AT (437) 880 - 2295, MICHAEL.BRESTANSKY@TRCA.CA) AND TRCA PROJECT MANAGER (ALIYAH KHAN AT (437) 880 - 2387, ALIYAH.KHAN@TRCA.CA) 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
 - AN ENVIRONMENTAL MONITOR WILL BE ON SITE, AND PROVIDE ADVICE, TO ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA ENFORCEMENT OFFICER AND PROJECT MANAGER IF ISSUES ARISE.

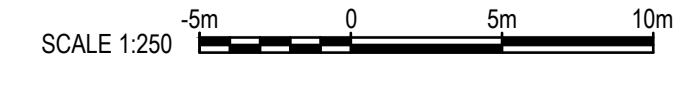
TRCA Upland Slope Mix ((TRCA-SD-3)
 Use on dry slopes

| L-Rank | Scientific Name | Common Name | % |
|--------|-----------------------------------|-------------------------|--------|
| L3 | <i>Andropogon gerardii</i> | Big bluestem | 16.0% |
| L5 | <i>Asclepias syriaca</i> | Common milkweed | 2.0% |
| L5 | <i>Symphotrichumnovae-angliae</i> | New England aster | 1.0% |
| L5 | <i>Desmodium canadense</i> | Showy tick-trefoil | 2.0% |
| L4 | <i>Elymus canadensis</i> | Canada wild rye | 15.0% |
| L2 | <i>Heliopsis helianthoides</i> | Oxeye | 3.0% |
| L5 | <i>Monarda fistulosa</i> | Wild bergamont | 3.0% |
| L3 | <i>Panicum virgatum</i> | Switch grass | 15.0% |
| L3 | <i>Pycnanthemum virginianum</i> | Virginia mountain mint* | 2.0% |
| L4 | <i>Rudbeckia hirta</i> | Black eyed Susan | 3.0% |
| L2 | <i>Schizachyrium scoparium</i> | Little blue stem | 15.0% |
| L5 | <i>Solidago canadensis</i> | Canada goldenrod | 1.0% |
| L4 | <i>Solidago juncea</i> | Early goldenrod* | 1.0% |
| L2 | <i>Sorghastrum nutans</i> | Indian grass | 20.0% |
| L3 | <i>Symphotrichum laeve</i> | Smooth aster | 1.0% |
| | Total | | 100.0% |

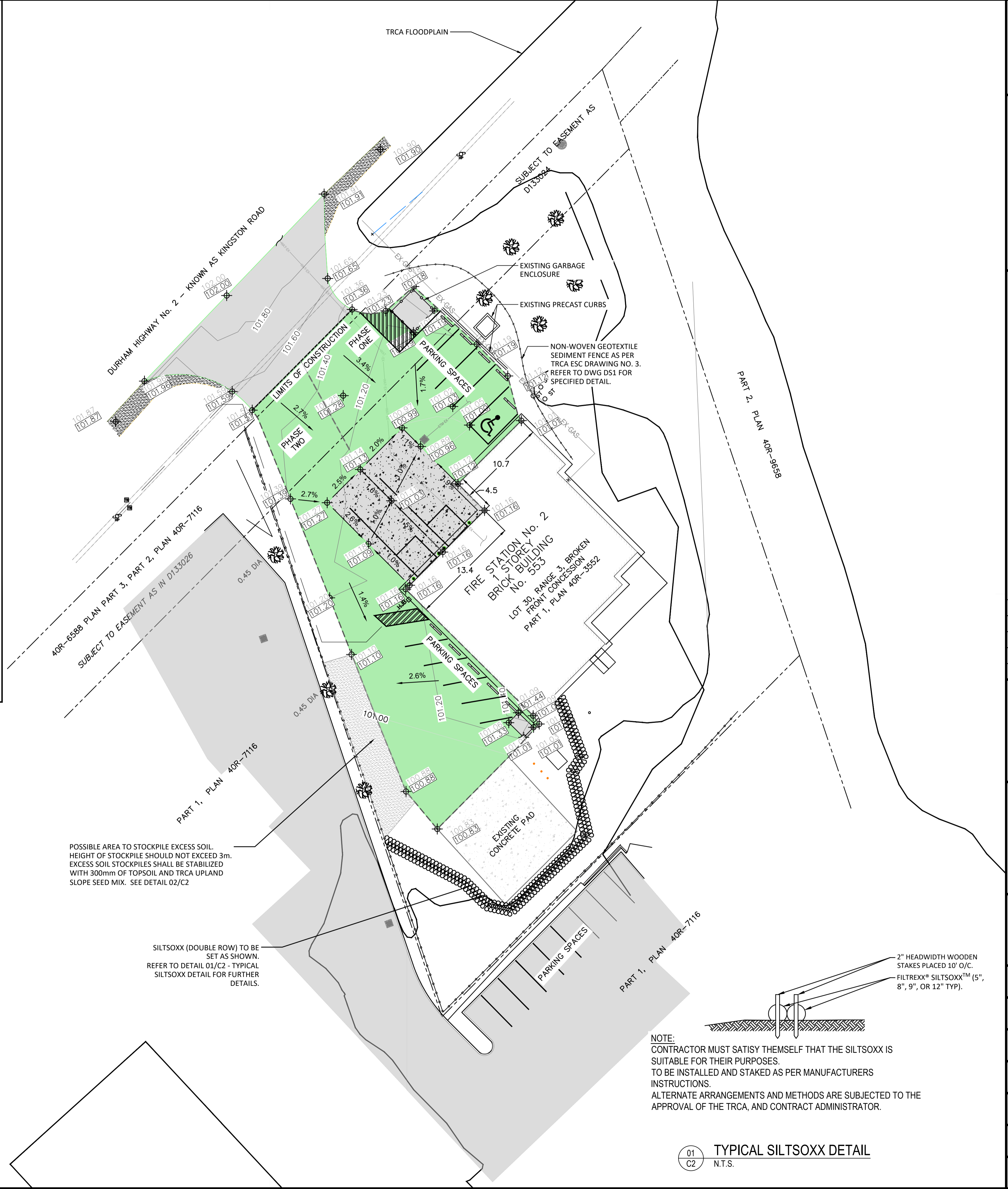
* If supply issues arise, please replace these species with reasonable substitute from Appendix C.

- NURSE CROP TO BE:
- 40% OATS, 45% BARLEY, AND 15% CANADIAN WILD RYE FROM MAY TO SEPTEMBER.
 - WINTER WHEAT FROM OCTOBER TO NOVEMBER
 - APPLICATION RATE: 17.71KG/HA FOR RESTORATION, 60KG/HA FOR STABILIZATION.
 - CONTRACTOR SHALL PLACE MIN. 300mm OF TOPSOIL.

02 TRCA - SD-3 UPLAND SLOPE MIX
 C2 N.T.S.



(METRIC SCALE - ALL DIMS IN METERS U.N.O.)



01 TYPICAL SILTSOXX DETAIL
 C2 N.T.S.

FILE PATH: P:\Belleville Project\5000\2135515 - Pickering Fire Hall #2 Reconstruction\Drawings\Working\2135515 - Pickering Fire Hall #2 - PER CRDA DOCUMENTS\BIBAHAN 96-wd023.dwg
 PLOT SCALE: 1:1
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 BORDER SIZE: ISO A1 (841mm x 594mm)

- NOTES:**
- ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES.
 - ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.
 - ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIVALENT.
 - CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.
 - CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.
 - ANY CHANGES MUST BE APPROVED BY THE ENGINEER.

A A DETAIL NO.
 B B DRAWING NO. - WHERE DETAILED

| EXISTING | DESCRIPTION | PROPOSED |
|----------|--------------------|----------|
| | ASPHALT | |
| | GRAVEL SHOULDER | |
| | GRANULAR | |
| | PROPERTY LINE | |
| | CENTRELINE | |
| | EDGE OF PAVEMENT | |
| | BACK OF CURB | |
| | STORM SEWER | |
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| | OVERHEAD HYDRO | |
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| | WATER MAIN | |
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| | HYDRO POLE | |
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| | GATE VALVE | |
| | CATCH BASIN | |
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| | GAS METER | |
| | HYDRO JUNCTION BOX | |
| | SEPTIC TANK LID | |
| | BOLLARD | |
| | PHASING LINE | |

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|----|------------------------|----------|
| 02 | ISSUED FOR TENDER | 22/09/13 |
| 01 | ISSUED FOR TRCA REVIEW | 22/07/15 |

REVISION DESCRIPTION DATE

NORTH

STAMP

LICENSED PROFESSIONAL ENGINEER
 G. TORO SUAREZ
 100116176
 Nov. 9, 2022
 PROVINCE OF ONTARIO

PROJECT
PICKERING FIREHALL #2
PARKING LOT RECONSTRUCTION
 553 KINGSTON RD, PICKERING, ON L1V 3N7

CITY OF PICKERING

DRAWING TITLE
CONCRETE SLAB & TYPICAL DETAILS

DESIGNED BY
 G.T.S./N.J.

DRAWN BY
 I. TODESCO

REVIEWED BY
 G. TORO SUAREZ

APPROVED BY
 G. TORO SUAREZ

PROJECT DATE
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PROJECT #
 21-3-5515

DRAWING #
 S1

DRAWING SCALE (ISO A1)
 HOR: AS NOTED
 VER: AS NOTED

GENERAL STRUCTURAL NOTES:

- THE FOLLOWING NOTES AND THE TYPICAL DETAILS AS INDICATED ARE NOT SPECIFICALLY APPLICABLE TO ALL STRUCTURAL CONDITIONS.
- THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACT DOCUMENTS.
- ONLY DIMENSIONS RELEVANT TO STRUCTURAL ELEMENTS ARE SHOWN ON THE DRAWINGS.
- CARRY OUT ALL WORK IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.

CONCRETE NOTES:

- CONCRETE SHALL CONFORM TO CSA A23.1/A23.3 AND CONCRETE SCHEDULE PROVIDED HEREIN.
- CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH CSA A23.1.
- SUBMIT CONCRETE MIX DESIGN TO THE ENGINEER AND TO THE INSPECTION AND TESTING COMPANY FOR REVIEW AND COMMENT PRIOR TO STARTING CONSTRUCTION.
- MAKE SAW-CUT JOINTS IN SLAB ON GRADE WITHIN 6 TO 18 HOURS OF CONCRETE PLACEMENT. FILL JOINTS WITH SEMI-RIGID POLYUREA JOINT FILLER (SIKA LOADFLEX 524iv) OR SIMILAR APPROVED SAW-CUT FILLER AT LEAST 24 HOURS AFTER CASTING. JOINTS SHALL BE CLEAN AND DRY WHEN FILLED.
- CONCRETE PROVIDER SHALL CERTIFY 35MPa @ 24 HOURS OF POURING.
- UNLESS NOTED OTHERWISE, ALL SLABS TO BE CAST OVER 200mm OF GRANULAR 'A', COMPACTED TO 100% STANDARD PROCTOR DENSITY.
- CONCRETE COVER 51mm.
- SWIRL-TROWEL, BROOM OR TINE CONCRETE ACCORDING TO CSA A23.1 (CLAUSE 22.6.1) FOR NON-SLIP WEARING SURFACE.
- CONTRACTOR TO COORDINATE WORK PLAN WITH FIRE CHIEF IN ACCORDANCE WITH SPECIFICATIONS.

GENERAL NOTES:

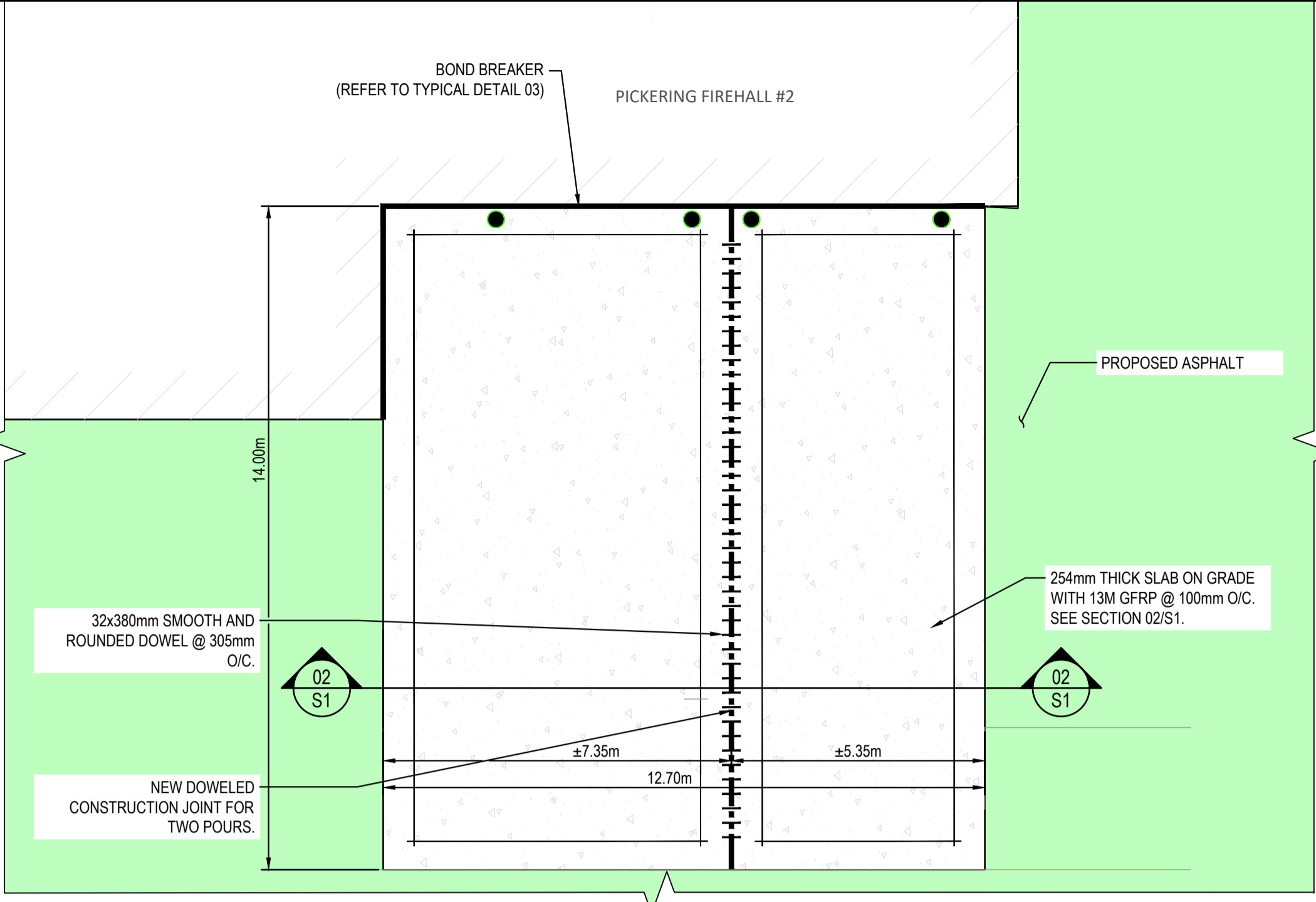
- ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES.
- ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.
- ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIVALENT.
- CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.
- CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.
- ANY CHANGES MUST BE APPROVED BY THE ENGINEER.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
- ALL DIMENSIONS ARE IN MILLIMETERS (mm), UNLESS NOTED OTHERWISE.

REINFORCING NOTES:

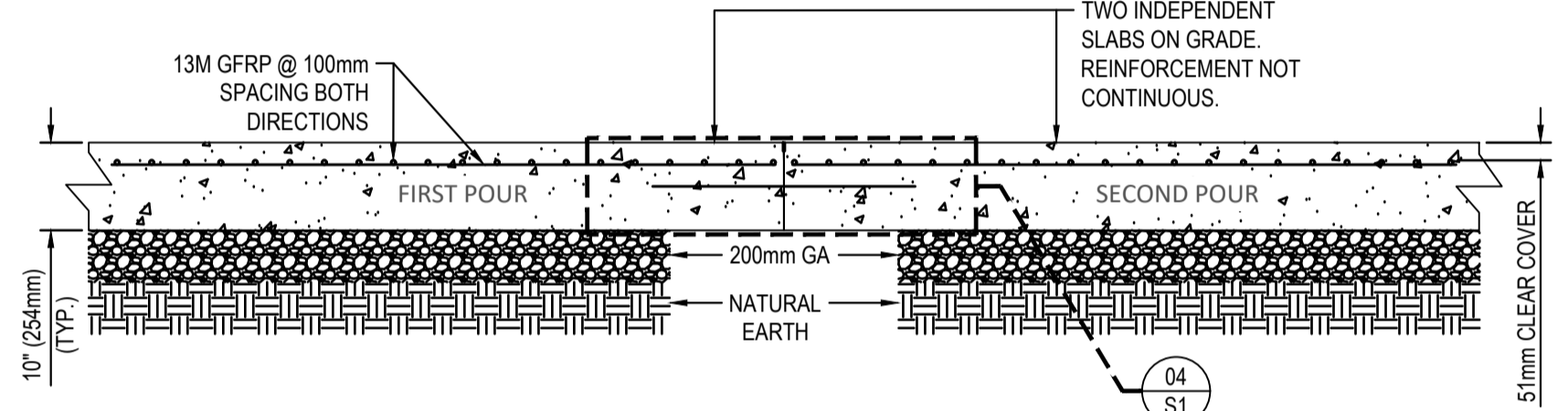
- REINFORCING BARS ARE 13M GLASS FIBRE REINFORCING POLYMER (GFRP) WITH 60GPa TENSILE MODULUS OF ELASTICITY AS PER CSA S806 & S807.
- UNLESS NOTED OTHERWISE, TENSION LAP LENGTHS SHALL BE CLASS 'B'.
- HOOKS AND BENDS FOR REINFORCING BARS SHALL BE DETAILED ACCORDING TO CHBDC CAN/CSA-S6-19 OR OHBDC LATEST EDITION, UNLESS NOTED OTHERWISE.

DESIGN NOTES:

- DESIGN IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, 2012 EDITION.
- CONCRETE SLAB DESIGNED ACCORDING TO PORTLAND CEMENT ASSOCIATION (PCA) CONCRETE FLOORS ON GROUND 4TH EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL NECESSARY FORM WORK. FORM WORK FOR NEW CONSTRUCTION SHALL BE BRIDGED OVER EXISTING SERVICES. PROCEDURE MUST BE APPROVED BY THE DESIGN ENGINEER.
- ANY UNSOUND STRUCTURAL CONDITIONS OBSERVED OR CREATED DURING CONSTRUCTION ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.



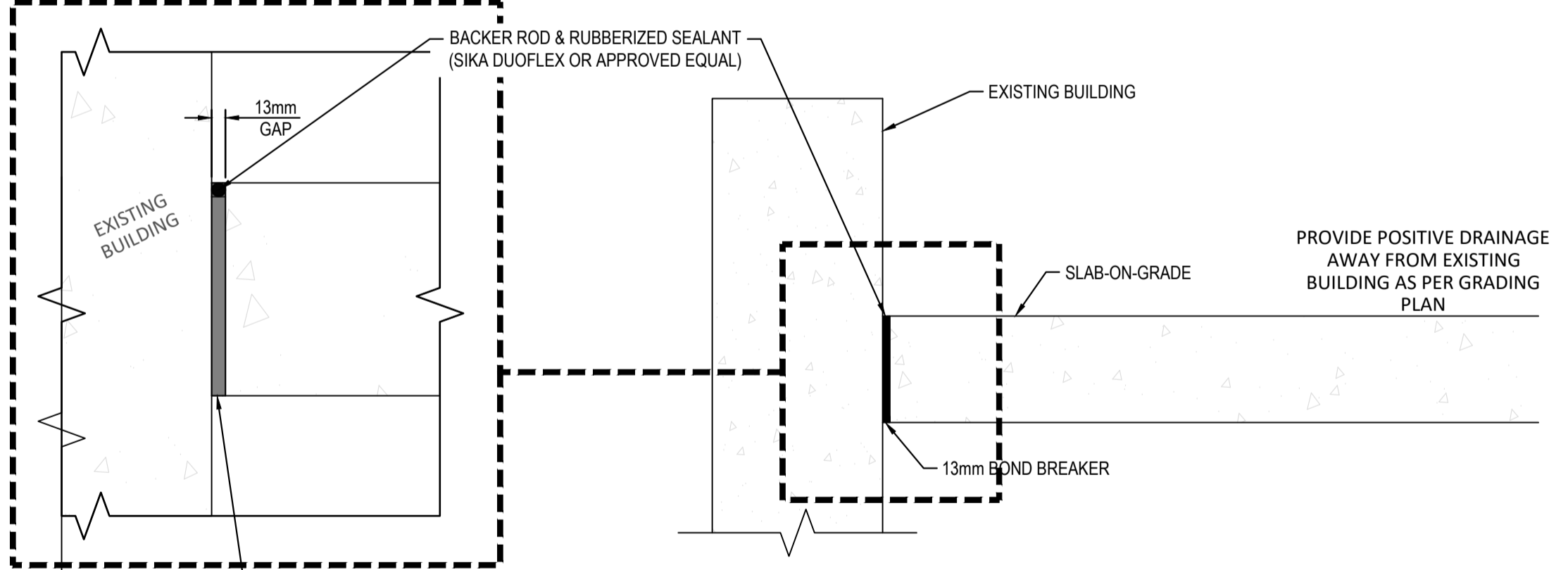
01 S1 **CONC. SLAB - PLAN VIEW**
 SCALE: 1:100



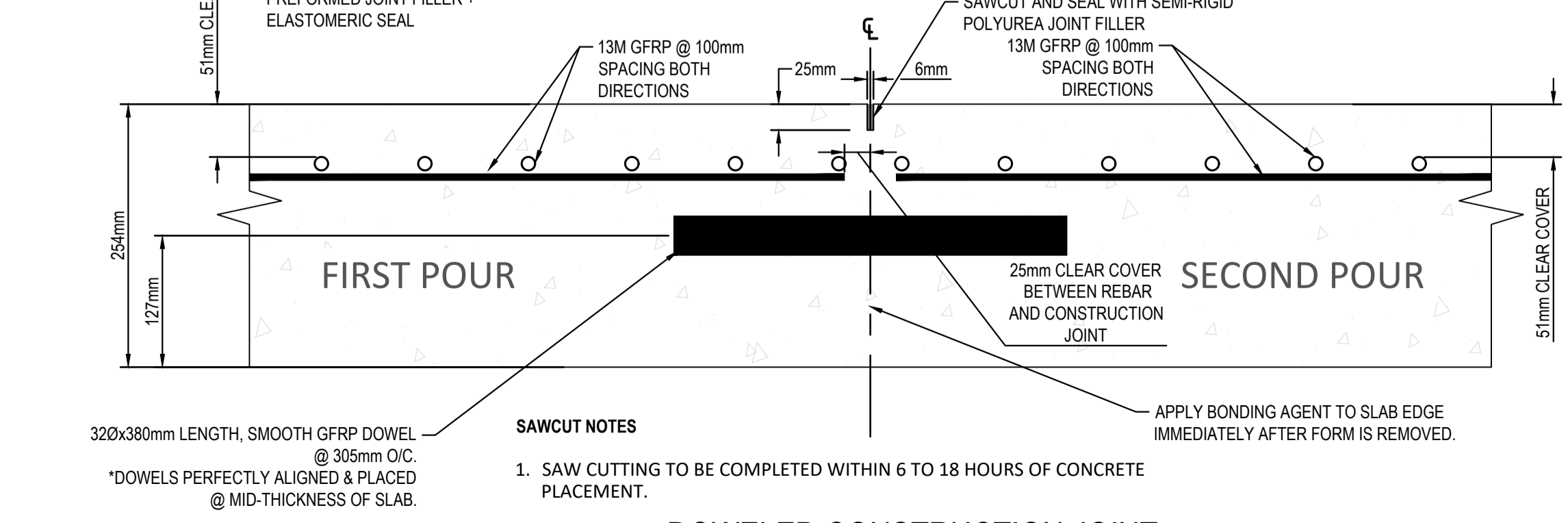
02 S1 **SECTION - TYPICAL SLAB-ON-GRADE**
 SCALE: N.T.S.

| TYPE | LOCATION | 24 HOURS STRENGTH (MPa) | CEMENT TYPE | MAX. AGGREG. SIZE (mm) | SLUMP (mm) | TOTAL AIR (%) | EXPOSURE CLASS | MIN. COVER (mm) | MAX. W/C RATION |
|---------------|----------|-------------------------|-------------|------------------------|------------|---------------|----------------|-----------------|-----------------|
| EXTERIOR SLAB | | 35 | GU | 20 | 100±20 | 5-8 | C-1 | 51 | 0.40 |

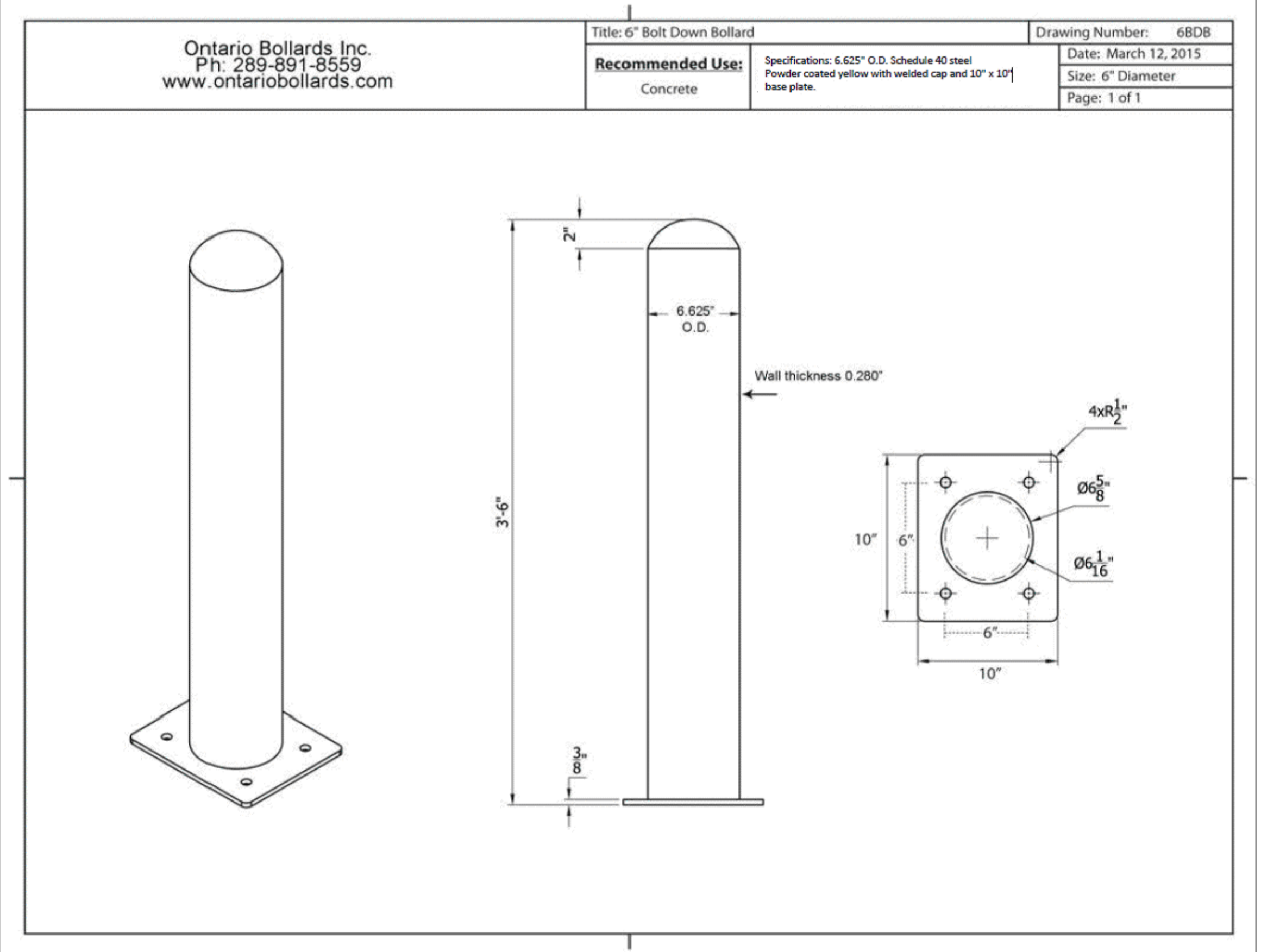
- NOTES:**
- SPECIFIED SLUMPS ARE PRIOR TO THE ADDITION OF ANY APPROVED PLASTICIZER.
 - WHEN CONCRETE IS PLACED BY PUMPING, THE LISTED SLUMPS ARE AT DISCHARGE.
 - SLURRY OF GROUT USED IN THE PRIMING IS TO BE WASTED AND NOT USED IN THE FINISHED CONSTRUCTION.



03 S1 **TYPICAL SLAB-ON-GRADE TO WALL ISOLATION JOINT**
 SCALE: N.T.S.



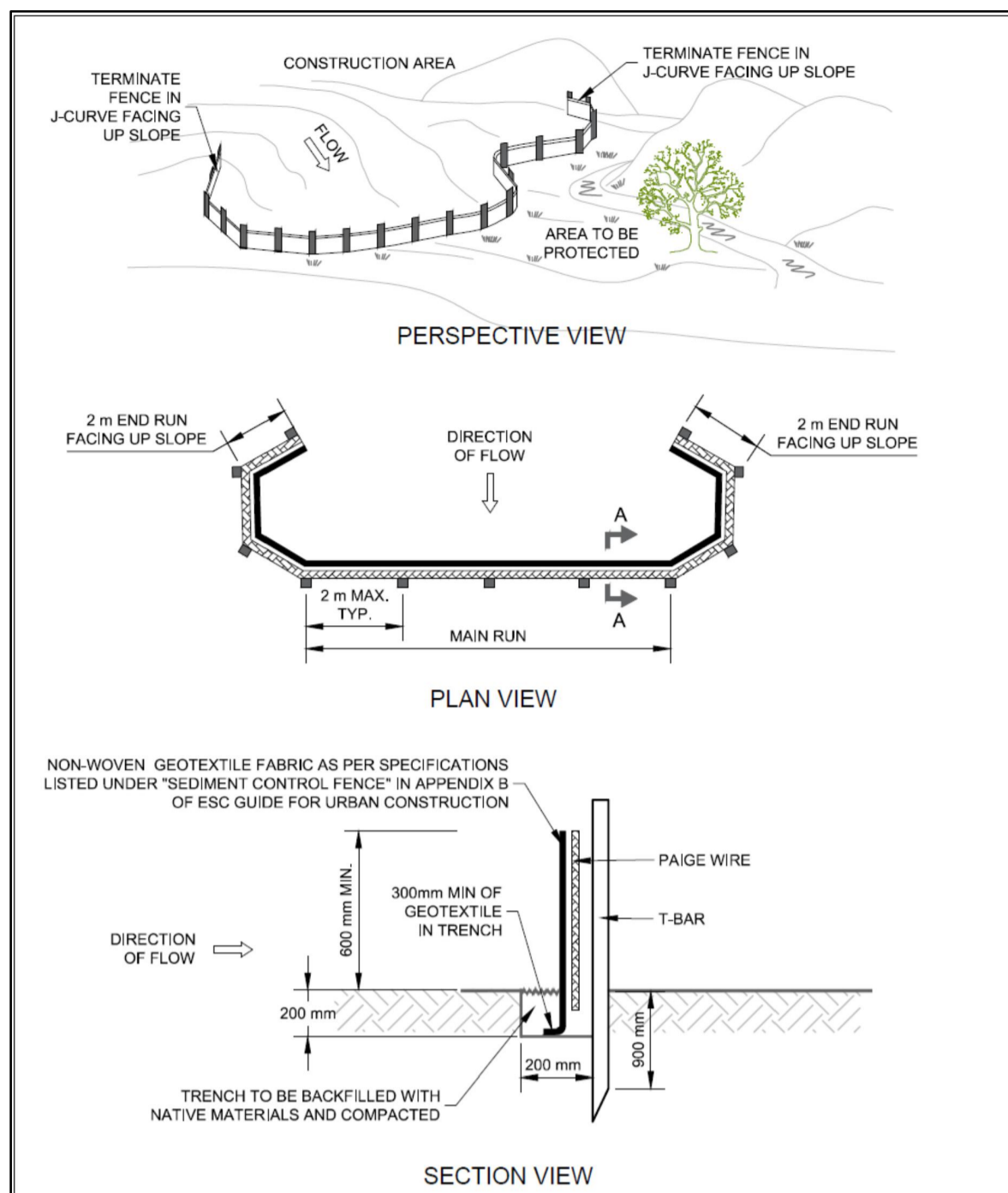
04 S1 **DOWELED CONSTRUCTION JOINT**
 SCALE: N.T.S.



FILE PATH: P:\Belleville Project\5000\2135515 - Pickering Fire Hall #2 - PER ORD/COMMENTS/ISSUANCE 9/6/2023.dwg
 PLOT SCALE: 1:1
 DATE PLOTTED: 2024 / 02 / 06 @ 02:27 PM
 BORDER SIZE: ISO A1 (841mm x 594mm)

FILE PATH: P:\Belleville Project\5000\2135515 - Pickering Fire Hall #2 Reconstruction\Drawings\Working\2135515 - Pickering Fire Hall #2 PER ORD/COMMENTS/2135515.dwg
 PLOT SCALE: 1:1
 DATE PLOTTED: 2024 / 02 / 06 @ 02:28 PM
 BORDER SIZE: ISO A1 (841mm x 594mm)

- NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES.
 2. ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.
 3. ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIVALENT.
 4. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.
 5. CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.
 6. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.
- A A DETAIL NO.
 B DRAWING NO. - WHERE DETAILED

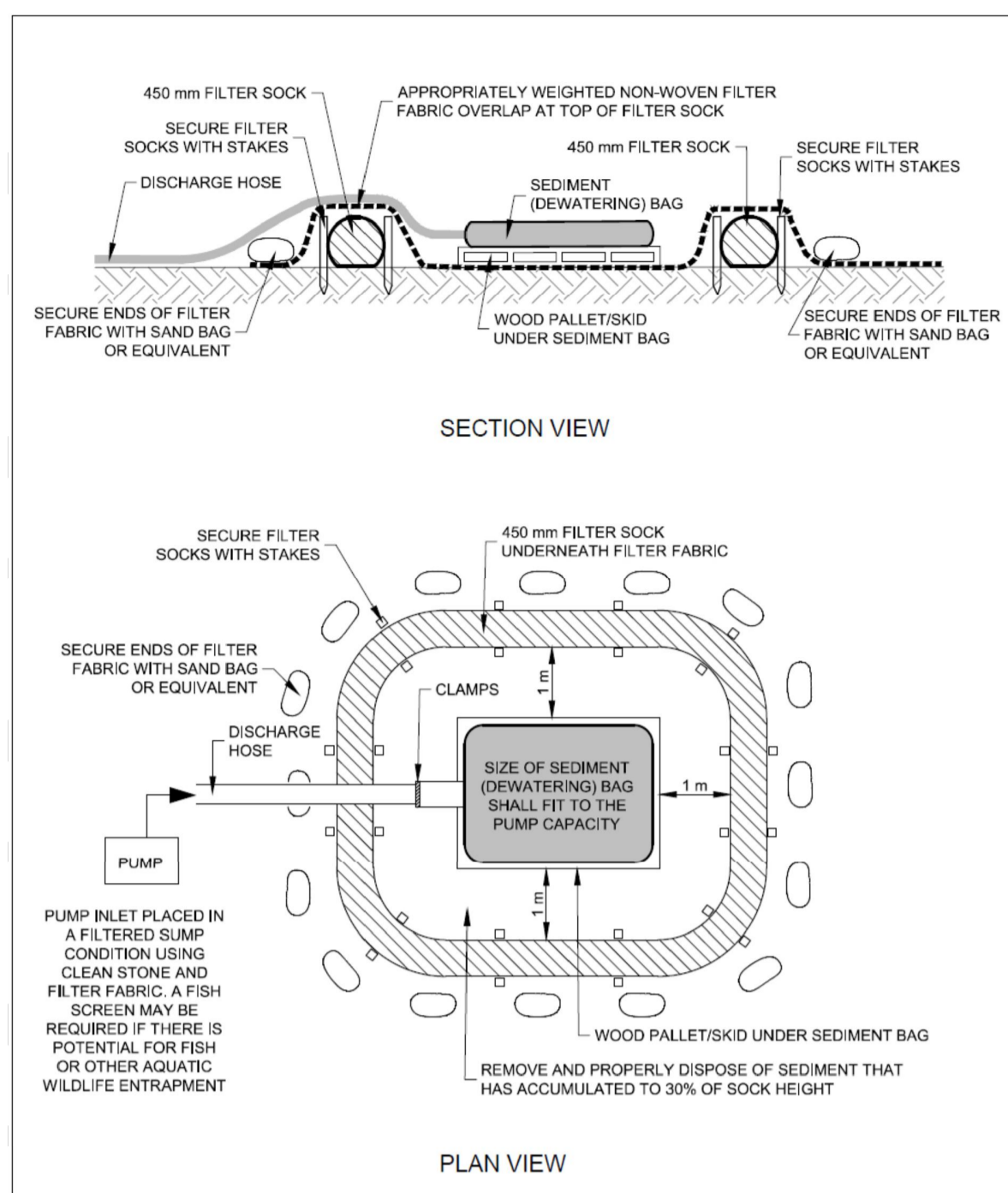


TRCA ESC DESIGN DETAIL

| | | |
|--------|-----|------------|
| SCALE | REV | DATE |
| N.T.S. | 1 | MARCH 2019 |

DRAWING TITLE: **SEDIMENT FENCE (UNFROZEN CONDITIONS)**
 DWG NO: **03**

DISCLAIMER: TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) IS NOT LIABLE FOR INFORMATION SHOWN ON THIS DRAWING. PLEASE USE IT FOR REFERENCE ONLY.

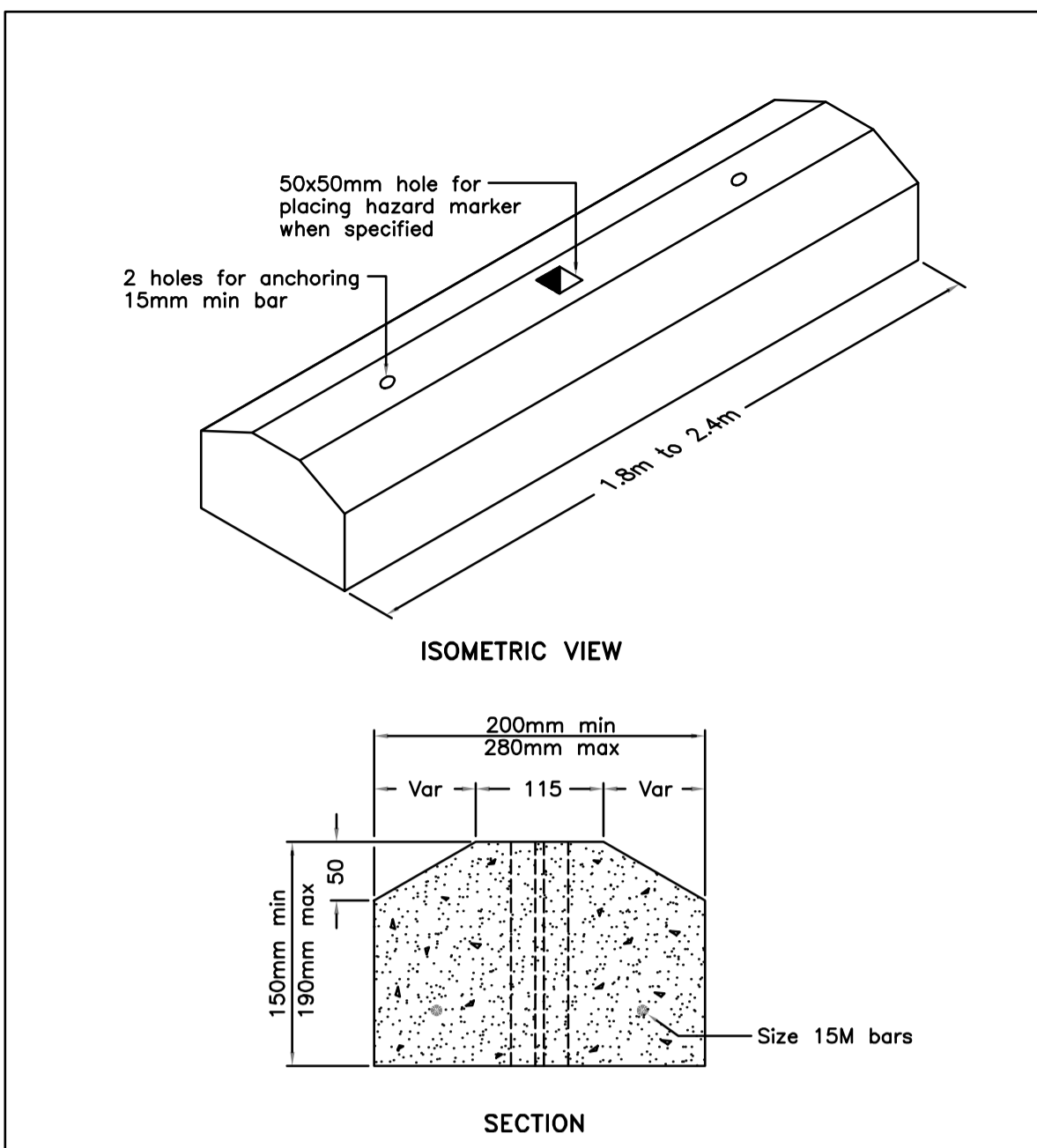


TRCA ESC DESIGN DETAIL

| | | |
|--------|-----|------------|
| SCALE | REV | DATE |
| N.T.S. | 1 | MARCH 2019 |

DRAWING TITLE: **DEWATERING TREATMENT TRAIN**
 DWG NO: **01**

DISCLAIMER: TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) IS NOT LIABLE FOR INFORMATION SHOWN ON THIS DRAWING. PLEASE USE IT FOR REFERENCE ONLY.

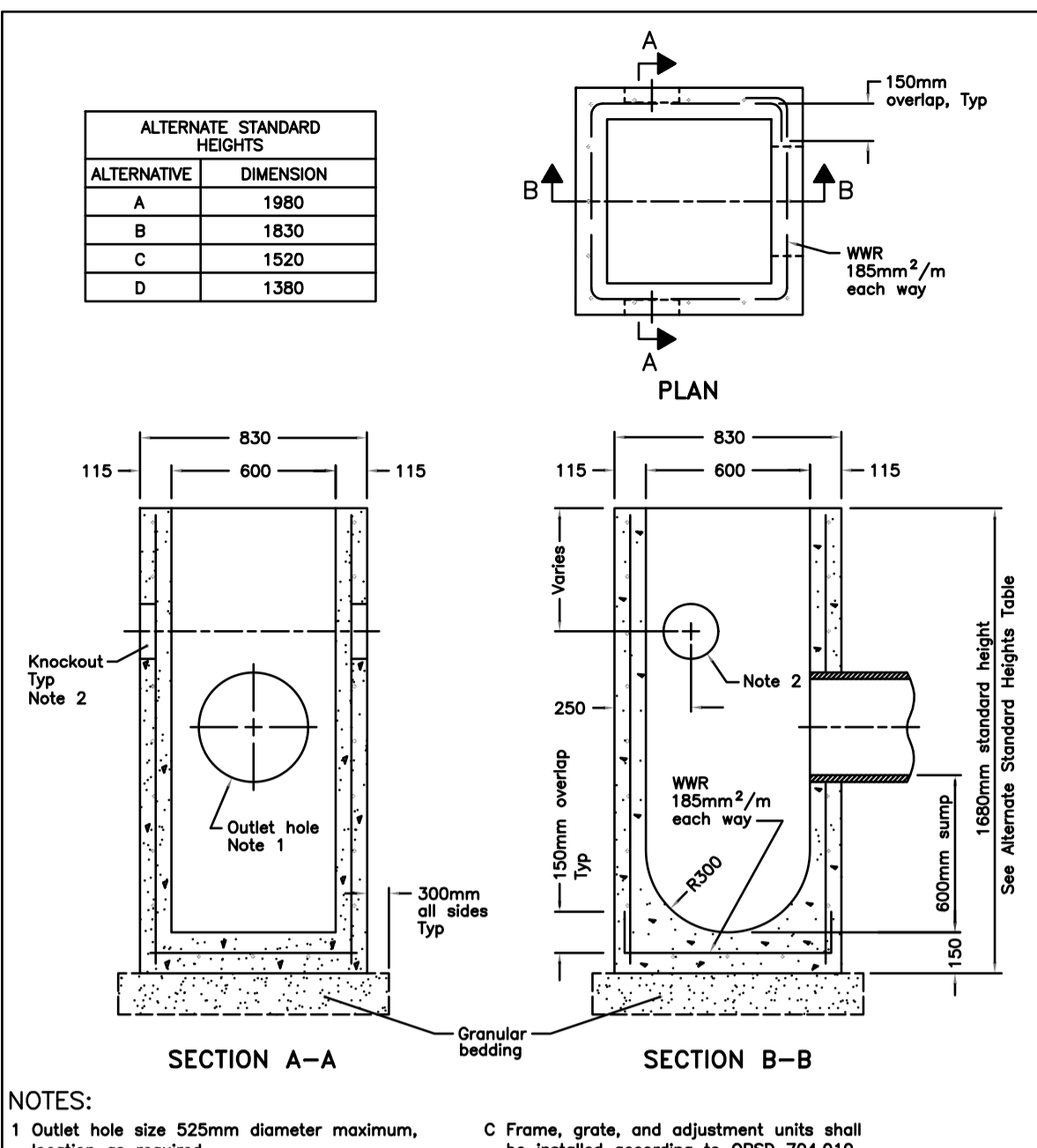


ONTARIO PROVINCIAL STANDARD DRAWING

| | |
|----------|-------|
| Nov 2012 | Rev 2 |
|----------|-------|

DRAWING TITLE: **PRECAST CONCRETE CURB**
 OPSD 603.020

DISCLAIMER: TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) IS NOT LIABLE FOR INFORMATION SHOWN ON THIS DRAWING. PLEASE USE IT FOR REFERENCE ONLY.

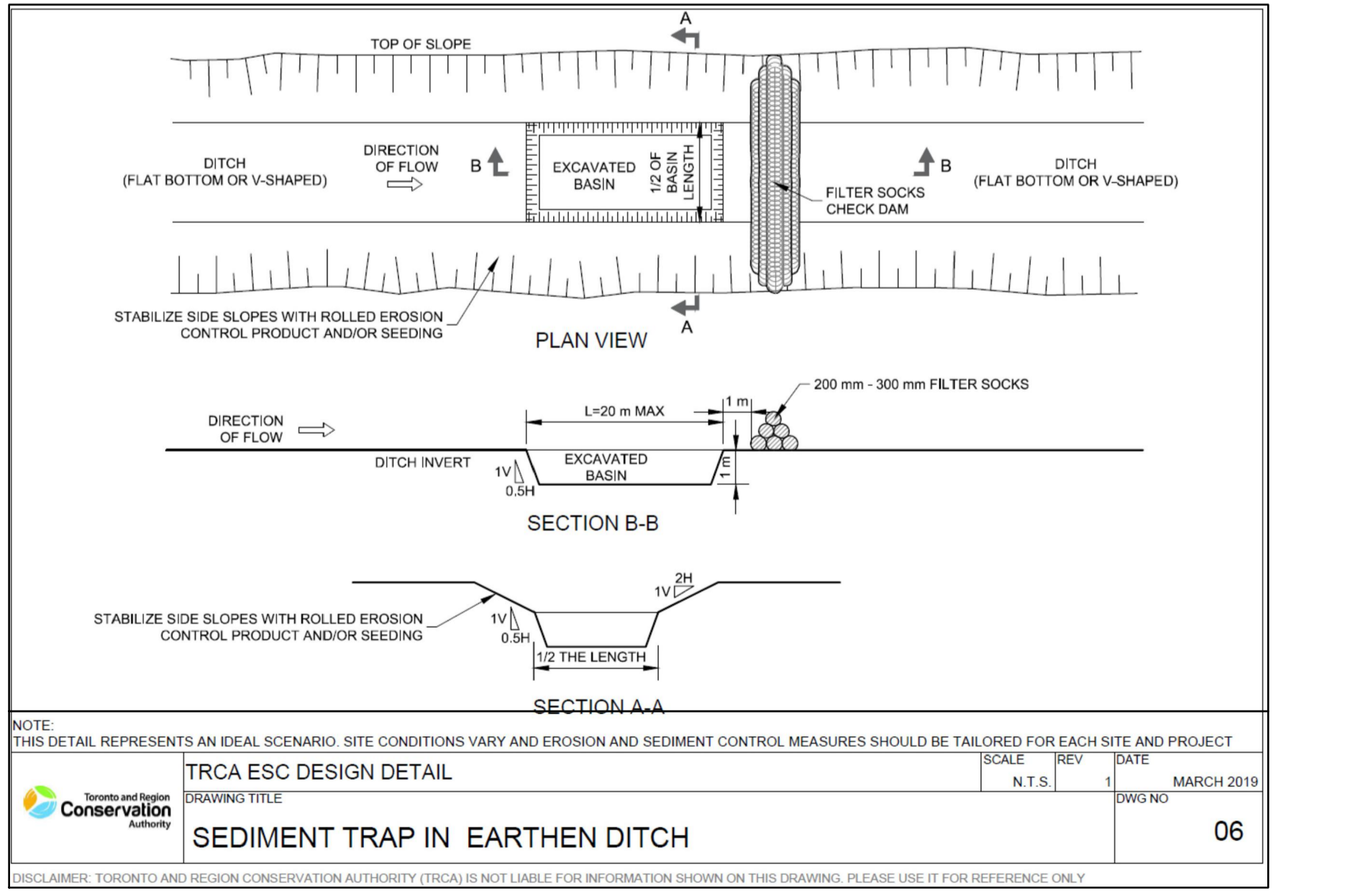
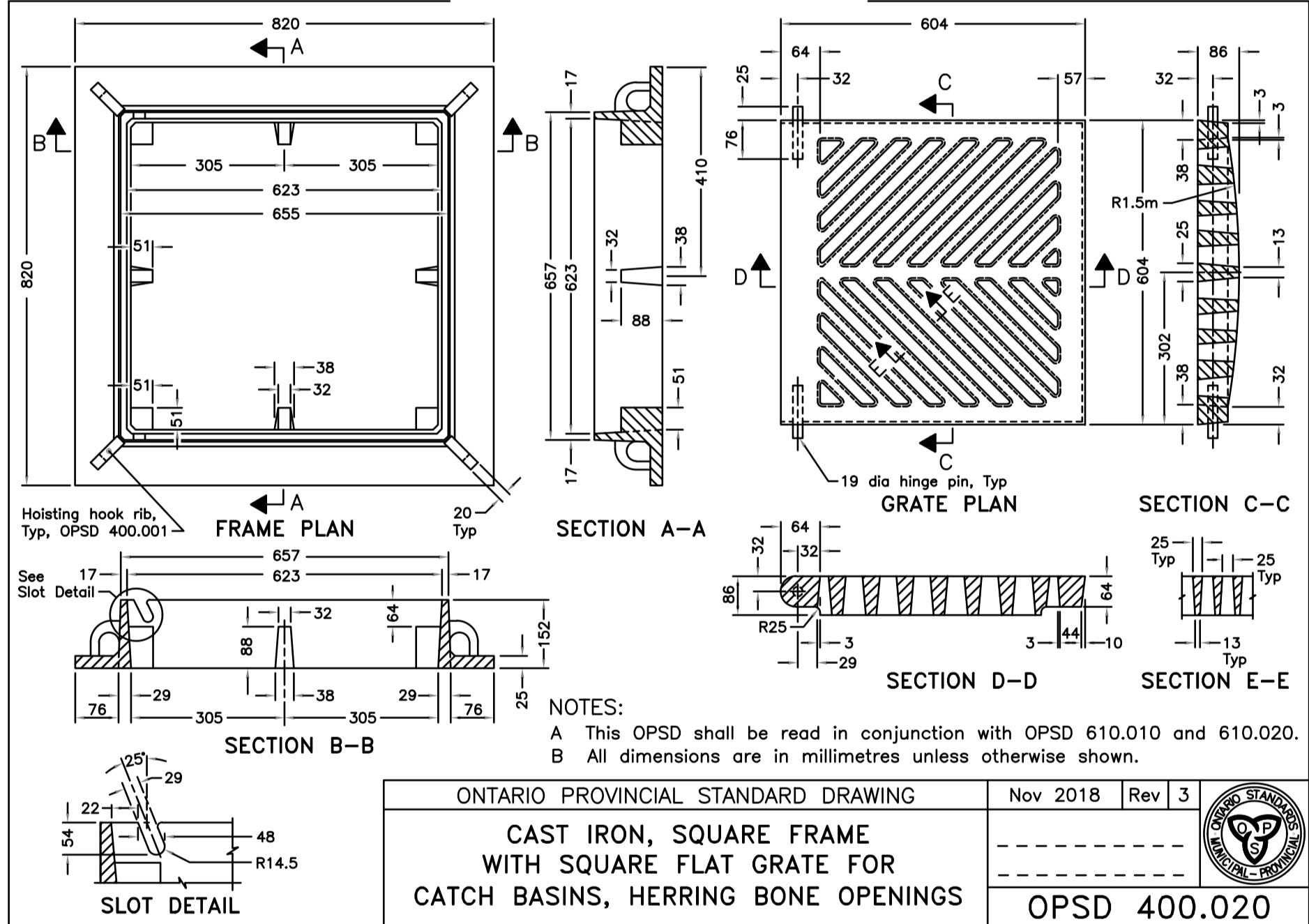


ONTARIO PROVINCIAL STANDARD DRAWING

| | |
|----------|-------|
| Nov 2019 | Rev 4 |
|----------|-------|

DRAWING TITLE: **PRECAST CONCRETE CATCH BASIN 600x600mm**
 OPSD 705.010

DISCLAIMER: TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) IS NOT LIABLE FOR INFORMATION SHOWN ON THIS DRAWING. PLEASE USE IT FOR REFERENCE ONLY.

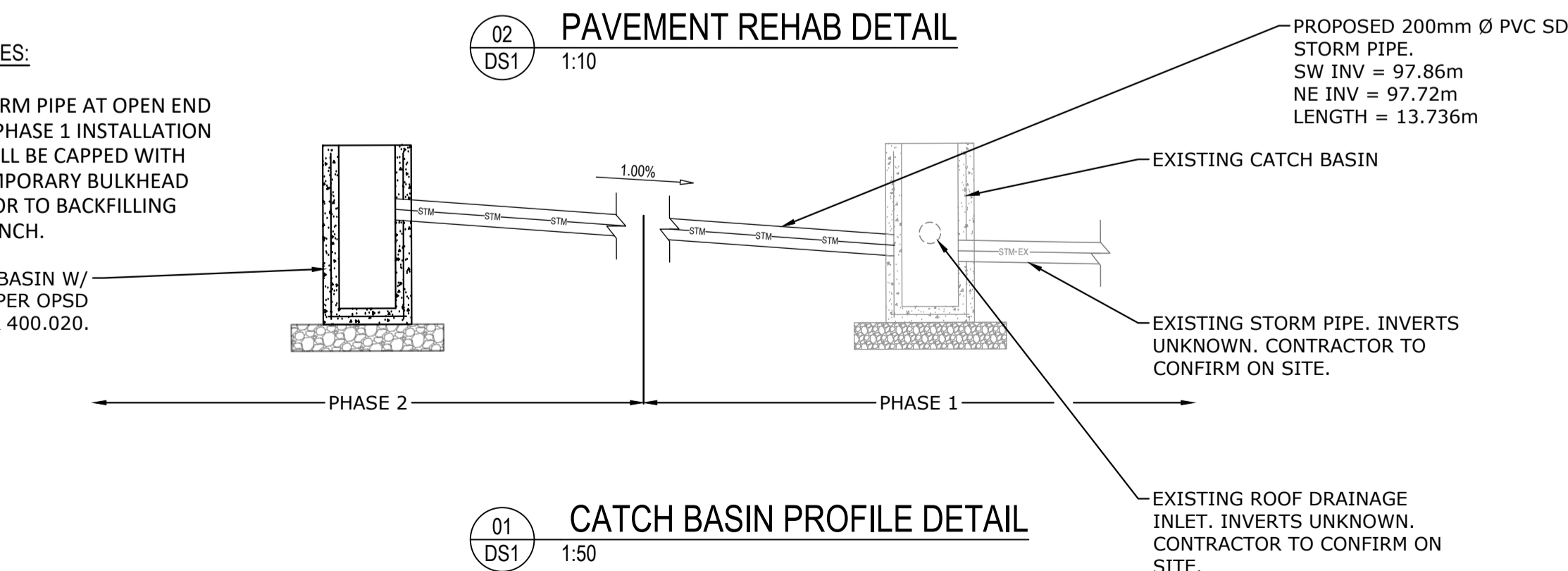
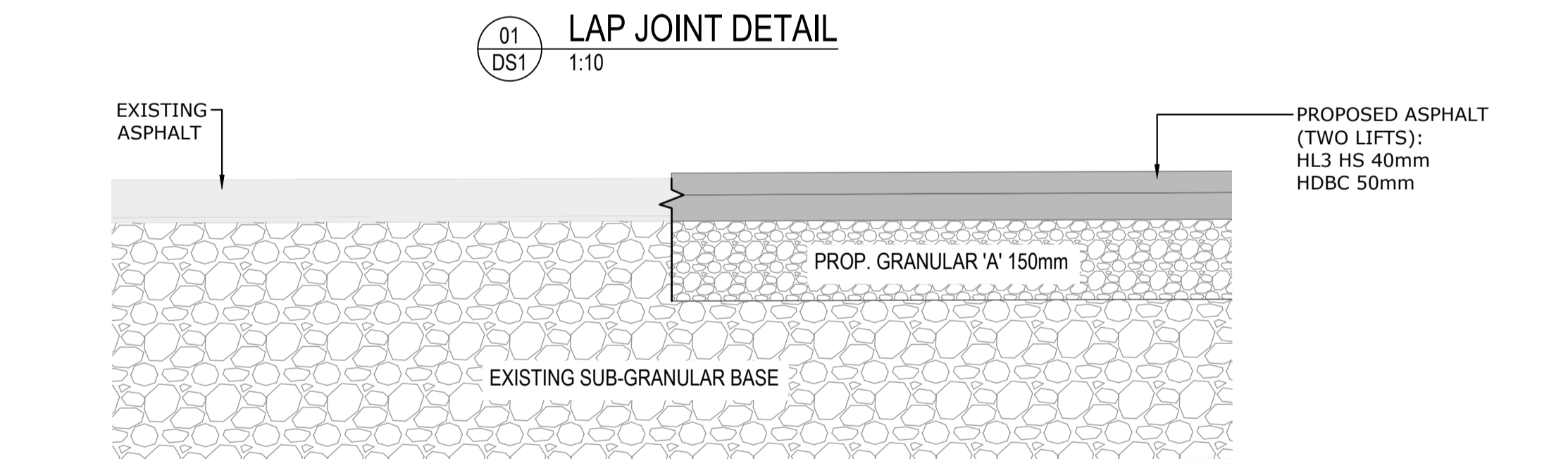
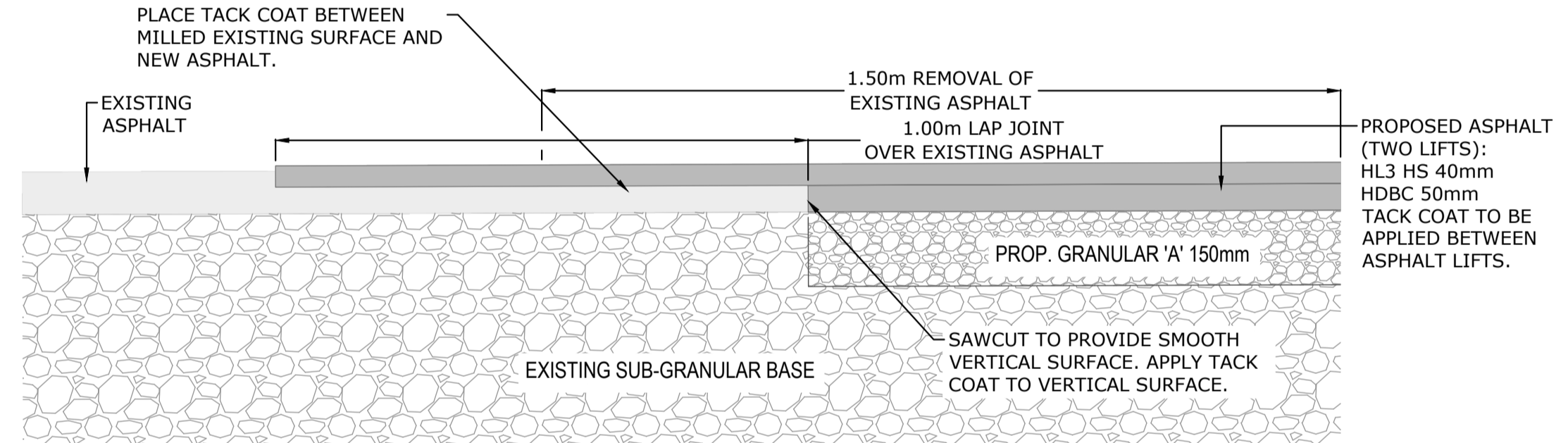


TRCA ESC DESIGN DETAIL

| | | |
|--------|-----|------------|
| SCALE | REV | DATE |
| N.T.S. | 1 | MARCH 2019 |

DRAWING TITLE: **SEDIMENT TRAP IN EARTHEN DITCH**
 DWG NO: **06**

DISCLAIMER: TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) IS NOT LIABLE FOR INFORMATION SHOWN ON THIS DRAWING. PLEASE USE IT FOR REFERENCE ONLY.



NOTES:

STORM PIPE AT OPEN END OF PHASE 1 INSTALLATION SHALL BE CAPPED WITH TEMPORARY BULKHEAD PRIOR TO BACKFILLING TRENCH.

PROPOSED CATCH BASIN W/ CAST IRON GRATE AS PER OPSD 705.010 & 400.020.

PROPOSED 200mm Ø PVC SDR35 STORM PIPE.
 SW INV = 97.86m
 NE INV = 97.72m
 LENGTH = 13.736m

| | | |
|----|------------------------|----------|
| 03 | TRCA SUBMISSION | 24/02/05 |
| 02 | ISSUED FOR TENDER | 22/09/13 |
| 01 | ISSUED FOR TRCA REVIEW | 22/07/15 |

REVISION DESCRIPTION DATE

NORTH

STAMP

S. J. BLAKEY
 LICENSED PROFESSIONAL ENGINEER
 No. 9122
 PROVINCE OF ONTARIO

PROJECT
**PICKERING FIREHALL #2
 PARKING LOT
 RECONSTRUCTION**
 553 KINGSTON RD, PICKERING, ON L1V 3N7

CITY OF PICKERING

DRAWING TITLE
DETAIL SPECIFICATIONS

DESIGNED BY
N. JIANOPOULOS

DRAWN BY
I. TODESCO

REVIEWED BY
S. BLAKEY

APPROVED BY
S. BLAKEY

PROJECT DATE
2022/07/12
 (YYYY/MM/DD)

PROJECT #
21-3-5515

DRAWING #
DS1

DRAWING SCALE (ISO A1)
 HOR: AS NOTED
 VER: AS NOTED