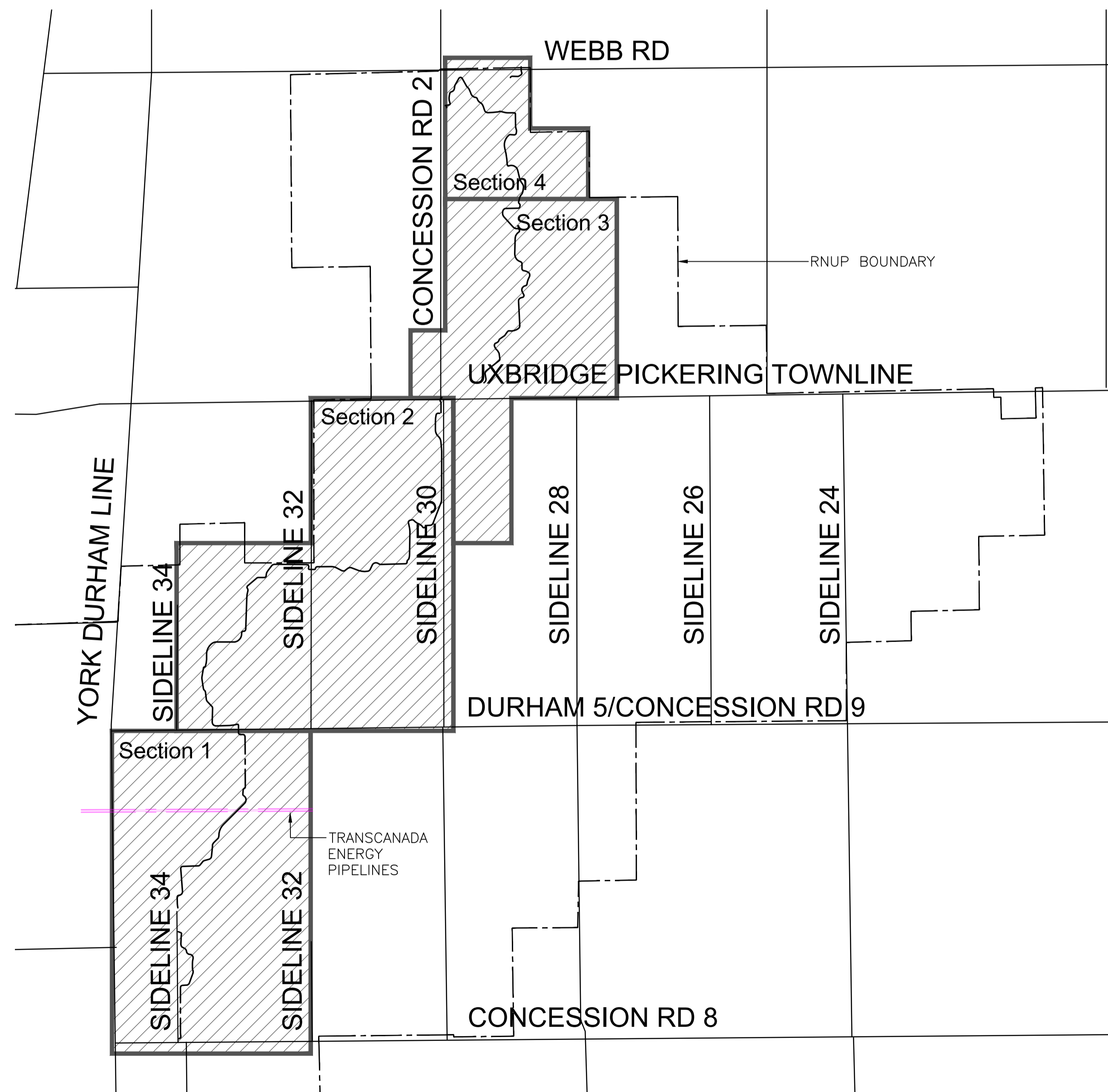


PARKS CANADA

# NORTH EAST TRAIL: ROUGE NATIONAL URBAN PARK

DILLON PROJECT: 19-1500  
ISSUED FOR TENDER SUBMISSION  
DATE: JANUARY 29, 2021



KEY MAP  
1:20,000

DRAWING INDEX		
SHT.	DWG.	DESCRIPTION
LANDSCAPE DRAWINGS		
		COVER PAGE
1.	L1	KEY PLAN
2.	L2	LAYOUT NOTES
SECTION 1		
3.	L3	LAYOUT PLAN
4.	L4	LAYOUT PLAN
5.	L5	LAYOUT PLAN
6.	L6	LAYOUT PLAN
7.	L7	LAYOUT PLAN
8.	L8	LAYOUT PLAN
9.	L9	LAYOUT PLAN - CROSSING #1 (DURHAM RD 5)
SECTION 2		
10.	L10	LAYOUT PLAN
11.	L11	LAYOUT PLAN
12.	L12	LAYOUT PLAN
13.	L13	LAYOUT PLAN - CROSSING #2 (SIDELINE 32)
14.	L14	LAYOUT PLAN
15.	L15	LAYOUT PLAN
16.	L16	LAYOUT PLAN
17.	L17	LAYOUT PLAN - CROSSING #3 (UXBRIDGE PICKERING TOWNLINE)
SECTION 3		
18.	L18	LAYOUT PLAN
19.	L19	LAYOUT PLAN
20.	L20	LAYOUT PLAN
21.	L21	LAYOUT PLAN
SECTION 4		
22.	L22	LAYOUT PLAN
23.	L23	LAYOUT PLAN
24.	L24	LAYOUT PLAN
25.	L25	LAYOUT PLAN
26.	L26	LAYOUT PLAN

DRAWING INDEX		
SHT.	DWG.	DESCRIPTION
ENLARGEMENT PLANS		
27.	L27	ENLARGEMENT PLAN - TRAIL HEAD GRADING
28.	L28	ENLARGEMENT PLAN - PARKING LOTS
TRAIL SIGNAGE & CROSSING DRAWINGS		
29.	T1	TRAIL SIGNAGE (SIDELINE 34)
30.	T2	TRAIL SIGNAGE (SIDELINE 34)
31.	T3	TRAIL CROSSING #1 (DURHAM RD 5)
32.	T4	TRAIL CROSSING #2 (SIDELINE 32)
33.	T5	TRAIL CROSSING #3 (UXBRIDGE PICKERING TOWNLINE)
34.	T6	TRAIL SIGNAGE (WEBB RD)
DETAILS		
35.	D1	LANDSCAPE DETAILS
36.	D2	LANDSCAPE DETAILS
37.	D3	LANDSCAPE DETAILS
38.	D4	LANDSCAPE DETAILS
39.	D5	LANDSCAPE DETAILS
40.	D6	LANDSCAPE DETAILS
STRUCTURAL		
41.	S1	GENERAL NOTES & TYPICAL DETAILS
42.	S2	BOARDWALK DETAILS - BW1
43.	S3	BOARDWALK DETAILS - BW2
44.	S4	BOARDWALK DETAILS - BW4
45.	S5	STRUCTURE SUMMARY TABLE
46.	S6	STAIRCASE #1 LAYOUT & DETAILS
47.	S7	STAIRCASE #3 LAYOUT & DETAILS
48.	S8	STAIRCASE #4 LAYOUT & DETAILS
49.	S9	STAIRCASE #5 LAYOUT & DETAILS



FILENAME: C:\P\WORKING DIRECTORY\PROJECTS 2019\XALB\MS43150\191500-06-LAND-CON-LWG PLOTTED BY: BRANIE LEDHANN  
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GENERAL NOTES

1. CONTRACTOR TO REVIEW LAYOUT OF TRAIL ON SITE WITH PCA REPRESENTATIVE PRIOR TO CONSTRUCTION.
2. ALL EXCAVATION WORK AND EQUIPMENT MOVEMENT SHALL BE RESTRICTED TO STAGING AREAS AND TRAIL CORRIDOR (3.8M WIDE TRAIL CORRIDOR IN FORESTED SECTIONS AND 12m WIDE TRAIL CORRIDOR IN FARM FIELDS) WHEREVER POSSIBLE, TO FENCE LINE TO BE INSTALLED IN THIS CONTRACT).
3. CONTRACTOR TO REMAIN INSIDE THE LIMIT OF CONSTRUCTION DISTURBANCE NOTED ON THE DRAWINGS. ANY DAMAGE OUTSIDE THE LIMIT OF WORK AREA TO BE RESTORED TO EXISTING CONDITIONS OR BETTER, TO THE SATISFACTION OF THE PCA REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.
4. CONTRACTOR TO REMOVE AND DISPOSE OF OFF-SITE ITEMS NOTED FOR REMOVAL, AS WELL AS ANY DEBRIS THAT FALLS WITHIN A 10m WIDE CORRIDOR OF THE TRAIL. NOTE, NOT ALL ITEMS FOR REMOVAL HAVE BEEN IDENTIFIED ON PLAN, BUT SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE CONTRACT. DEBRIS REMOVALS INCLUDE, BUT ARE NOT LIMITED TO: ALL GRANULAR PAVING, OLD FENCING, DEBRIS, AND OLD SIGNAGE AS REQUIRED AND WHERE INDICATED ON PLAN TO FACILITATE THE IMPLEMENTATION OF CHANGES AS PER PLANS AND DETAILS. ANY SIGNAGE OR ANY OTHER ITEMS IDENTIFIED BY THE PCA REPRESENTATIVE TO BE SALVAGED. CONTRACTOR TO RELOCATE AT A LOCATION ON-SITE AS IDENTIFIED BY THE PCA REPRESENTATIVE.
5. CONTRACTOR TO MAKE GOOD TO PCA REPRESENTATIVE'S APPROVAL ALL DAMAGES THAT OCCUR DURING CONSTRUCTION.
6. PCA AND DILLON CONSULTING LIMITED (DILLON) DO NOT GUARANTEE THE ACCURACY OF THE BASE INFORMATION AND GRADING INFORMATION SHOWN ON THE DRAWINGS. ANY DISCREPANCIES OR VARIANCES ARE TO BE REPORTED TO THE PCA REPRESENTATIVE 72 HRS. PRIOR TO CONSTRUCTION. ANY ADDITIONAL WORKS DUE TO FAILURE OF THE CONTRACTOR TO NOTIFY THE PCA REPRESENTATIVE OF ANY CONFLICTS 72 HRS. PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY ERRORS, OMISSIONS, AND / OR DISCREPANCIES TO PCA REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION. PROPERTY LINES TO BE VERIFIED PRIOR TO INITIATING ANY CONSTRUCTION.
8. EXTENT OF WORK SHOWN IS TO CONVEY INTENT ONLY. EXTENT OF CONSTRUCTION IS TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION. IF THERE IS AMBIGUITY OR LACK OF INFORMATION, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE PCA REPRESENTATIVE. THE CONTRACTOR MAY BE HELD RESPONSIBLE TO REMOVE ANY CHANGES MADE WITHOUT WRITTEN PERMISSION OF THE PCA REPRESENTATIVE.
9. ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE MOST CURRENT DESIGN STANDARDS, CRITERIA, AND SPECIFICATIONS FORM THE ONTARIO BUILDING CODE, THE ONTARIO PROVINCIAL STANDARD DETAIL, THE ONTARIO PROVINCIAL STANDARD SPECIFICATION AND LANDSCAPE ONTARIO.
10. CONTRACTOR IS RESPONSIBLE FOR ALL FEES ARISING FROM THE COMPLETION OF WORKS CONVEYED BY THESE DRAWINGS AND IN THE SPECIFICATION PACKAGE. FEES INCLUDE BUT ARE NOT LIMITED TO SECURITIES, PERMIT FEES, DEPOSITS, APPLICATION FEES, LETTERS OF CREDIT, OR ANY OTHER RELATED FUNDING REQUIREMENTS. CONTRACTOR MUST ENSURE ALL NECESSARY APPROVALS AND PERMITS ARE IN PLACE PRIOR TO STARTING ANY WORKS.
11. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ALL UNDERGROUND SERVICES INCLUDING LIGHT STANDARD ELECTRICAL LINES.
12. QUALIFIED REGISTERED LAND SURVEYOR (OLS), ACCEPTABLE TO PCA REPRESENTATIVE, TO STAKE OUT LOCATIONS FOR ALL BOARDWALKS PRIOR TO STARTING SITE WORK, INCLUDING HEIGHT AND LOCATION REFERENCES FOR EACH END OF ALL BOARDWALKS. PRESERVE PERMANENT REFERENCE POINTS DURING CONSTRUCTION.
13. ONCE HELICAL PILES HAVE BEEN INSTALLED, A QUALIFIED REGISTERED LAND SURVEYOR (OLS), ACCEPTABLE TO PCA REPRESENTATIVE IS REQUIRED TO DO AN AS-BUILT SURVEY OF THE HELICAL PILE LOCATIONS FOR ALL BOARDWALKS. CONTRACTOR TO COORDINATE SURVEY WITH FIBERGLASS SUPPLIER FOR PREPARATION OF BOARDWALK SHOP DRAWINGS TO ENSURE TOLERANCES ARE MET WITH BOARDWALK CONSTRUCTION.
14. ESTABLISH LINES AND LEVELS, LOCATED AND LAY OUT, BY INSTRUMENTATION FOR BOARDWALKS.
15. SUBSTITUTIONS FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED BY THE PCA REPRESENTATIVE PRIOR TO THE ORDERING OF MATERIALS.
16. THESE DESIGN DRAWINGS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT WITH.
17. CONTRACTOR TO COORDINATE WITH PCA REPRESENTATIVE AS TO THE CONSTRUCTION SCHEDULING AND ACTIVITIES. THE PCA REPRESENTATIVE WILL INFORM THE PARKS CANADA ENVIRONMENTAL SURVEILLANCE OFFICER OF SCHEDULE CHANGES SO THAT THEY CAN ADVISE OF MITIGATION MEASURES AND BE PRESENT ON SITE AS NEEDED.

SEDIMENT CONTROL NOTES

23. MUD MATS TO BE INSTALLED WHERE INDICATED AS PER YORK REGION DETAIL DS-217 FOR TEMPORARY CONSTRUCTION ACCESS. SECTIONS OF MUD MAT WITHIN FARM FIELDS ARE TO BE REMOVED ONCE CONSTRUCTION IS COMPLETED, AND THE AREA IS TO BE RESTORED TO EXISTING CONDITIONS OR BETTER, TO THE SATISFACTION OF THE OWNER. SECTIONS OF MUD MATS WITHIN THE FARM ACCESS LANES SHALL REMAIN IN PLACE AT PROJECT COMPLETION.
24. MATERIAL AND EQUIPMENT STAGING AREAS THAT EXIST BEYOND THE TRAIL CORRIDOR TO BE LAID WITH 200mm DEPTH COARSE WOOD CHIPS OVER A NON-WEAVED GEOTEXTILE. TEMPORARY OR APPROVED EMENT, DELINEATED WITH TEMPORARY 0.6m HIGH 50x50mm WOOD POSTS. POSTS TO BE SPACED 10m O.C. MAX. AND LOCATED AT ALL CORNERS. WOOD CHIPS ARE NOT REQUIRED FOR AREAS THAT HAVE ALREADY BEEN ASSESSED FOR ARCHAEOLOGY.
25. STOCKPILED GRANULAR MATERIAL MUST BE MOVED FROM STAGING AREAS WITHIN 48 HRS MAXIMUM.
26. WOOD CHIPS, WOOD POSTS, AND GEOTEXTILE TO BE REMOVED AND DISPOSED OF OFF SITE UPON TRAIL COMPLETION. EXCAVATION IS NOT PERMITTED DURING THE INSTALLATION OR REMOVAL OF THE PROTECTIVE WOOD CHIP COVERING.
27. STAGING AREA WITHIN WORK LIMITS TO BE RESTORED AS PER PROPOSED LAYOUT.
28. ALL SILTATION CONTROL (FILTREX SX SILT SOXX OR APPROVED EQUAL) SHALL BE INSTALLED PERPENDICULAR TO THE TRAIL SLOPE PRIOR TO THE COMMENCEMENT OF EXCAVATION OR GRADING, TO PREVENT SEDIMENTATION FROM ENCROACHING AREAS OUTSIDE OF THE DESIGNATED WORK LIMITS.
29. SILTATION CONTROL DEVICES TO BE INSTALLED WHEN WITHIN 30m OF A WATERCOURSE. ADDITIONAL CONTROLS AS DEEMED REQUIRED BY THE PCA REPRESENTATIVE AND/OR AUTHORITIES DURING CONSTRUCTION ACTIVITIES SHALL BE PROVIDED BY THE CONTRACTOR.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SILTATION CONTROL DEVICES IN GOOD WORKING ORDER AT ALL TIMES. CONTRACTOR SHALL INSPECT SUCH DEVICES DAILY AND AFTER EACH RAINFALL EVENT.
31. NO IN-WATER WORKS ARE PERMITTED WITHOUT APPROVAL FROM THE PCA REPRESENTATIVE.
32. CONTRACTOR TO AVOID WORKING IN SEASONALLY WET/FLOOD PRONE AREAS WHILE INSTALLING HELICAL PILES FOR BOARDWALKS.
33. HEAVY EQUIPMENT SHALL NOT BE USED IN AREAS WHERE OVERLAND FLOW/WATER FLOW OVER TRAILS IS OCCURRING. THESE AREAS SHALL BE ALLOWED TO DRY BEFORE WORK CAN PROCEED.
34. NO VEHICLES OR EQUIPMENT MAY BE REFUELLED WITHIN 30 METRES OF ANY WATERCOURSES. EQUIPMENT WILL NOT TRAVERSE THROUGH ANY WATERCOURSES.
35. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/MENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT. THE PCA REPRESENTATIVE SHOULD BE IMMEDIATELY CONTACTED SHOULD THE EROSION AND SEDIMENT CONTROL PLANS CHANGE FROM THE APPROVED PLANS. FAILED EROSION AND SEDIMENTATION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE REPAIRED IMMEDIATELY.
36. IN ORDER TO RESPOND TO ANY FUEL SPILLS, A SPILL RESPONSE PLAN WILL BE IN PLACE. A SPILL KIT MUST BE AVAILABLE AT ALL TIMES AND STAFF WILL BE TRAINED TO DEPLOY IT. ANY FUEL SPILLS

SHALL BE IMMEDIATELY REPORTED TO THE ONTARIO MINISTRY OF ENVIRONMENT SPILLS REPORTING LINE (1-800-268-6060) AND ENVIRONMENT CANADA (613-239-6065).

SITE PREPARATION NOTES

37. CONTRACTOR TO WORK WITHIN GUIDELINES FOR THE MUNICIPALITY'S NOISE BY-LAWS.
38. THE CONTRACTOR TO PROVIDE A WASTE MANIFEST TO ENSURE THAT CONSTRUCTION AND OTHER GENERAL WASTES WILL BE DISPOSED OF AT AN APPROVED AND APPROPRIATED LANDFILL FACILITY.
39. TREES TO BE REMOVED SHALL BE FELLED INTO THE WORK AREA IN SUCH A WAY SO AS TO MINIMIZE DAMAGE TO SURROUNDING VEGETATION.
40. 25% (APPROXIMATELY) OF CUT BRANCHES AND TRUNKS SHALL BE SCATTERED IN THE SURROUNDING AREA (WITHIN 20m EITHER SIDE OF PROPOSED TRAILS) AND ALLOWED TO DECOMPOSE OVER TIME. THE REMAINING 75% OF CUT BRANCHES AND TRUNKS SHALL BE CHIPPED, AND CHIPPINGS SHALL BE SCATTERED AND SPREAD IN THE SURROUNDING AREA (WITHIN 20m) OF THE PROPOSED TRAILS.
41. HAZARD TREES TO BE RETAINED AS WILDLIFE HABITAT PERCHES SHALL BE CUT OFF AT 6m ABOVE GROUND, WHERE IDENTIFIED ON THE PLANS AND HAZARD TREE INVENTORY. REMOVE TOPS, CHIP AND SCATTER IN SURROUNDING FORESTED AREAS WITHIN PCA PROPERTY. ADDITIONAL POSTS MAY BE FLAGGED IN THE FIELD BY THE PCA REPRESENTATIVE.

ARCHAEOLOGY NOTES

42. ALTHOUGH THE AREA HAS BEEN TESTED FOR ARCHAEOLOGICAL RESOURCES, IT IS POSSIBLE THAT CULTURAL FEATURES AND/OR ARTIFACT CONCENTRATIONS MAY BE ENCOUNTERED DURING CONSTRUCTION. IF ANY FEATURES SUCH AS STRUCTURAL REMAINS OR ARTIFACT CONCENTRATIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY STOP WORKING IN THE AREA AND INFORM THE PCA REPRESENTATIVE FOR DIRECTION ON HOW TO PROCEED.

GRADING NOTES

43. CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL AREAS WITHIN THE LIMIT OF THE WORK.
44. ENSURE TRANSITION OF EXISTING AND NEW GRADE ELEVATIONS IS SMOOTH.
45. MINIMUM PERMITTED HARDSCAPE SLOPE IS 2%; CONTRACTOR TO NOTIFY PCA REPRESENTATIVE WHEREVER THERE ARE SLOPES GREATER THAN 8% WITHIN THE TRAIL CORRIDOR PRIOR TO TRAIL CONSTRUCTION.
46. MINIMUM VEGETATED GROUND SLOPE TO BE 2%, MAXIMUM PERMITTED 33%.
47. NOTIFY PCA REPRESENTATIVE IMMEDIATELY, IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS ARE DISCOVERED.

LAYOUT NOTES

48. LAYOUT OF BOARDWALK, STAIRS, FENCELINES, AND SEATING NODES TO BE STAKED OUT BY CONTRACTOR FOR REVIEW AND APPROVAL BY THE PCA REPRESENTATIVE PRIOR TO INSTALLATION.
49. THE FLAGS CURRENTLY IN THE FIELD (ORANGE) ARE NOT TO BE REMOVED BY THE CONTRACTOR UNTIL THE FINAL LAYOUT/STAKEOUT IS APPROVED BY PCA REPRESENTATIVE.
50. CONTRACTOR TO COORDINATE WITH PCA REPRESENTATIVE REGARDING THE ERECTION OF ALL CONSTRUCTION FENCING.

WORKING AROUND WILDLIFE PROTOCOL

51. TO COMPLY WITH FEDERAL LEGISLATION, WILD ANIMALS THAT MAY BE PRESENT ON SITE DURING PROJECT ACTIVITIES SHALL NEVER BE HARMED OR HARASSED. IF WILD ANIMALS DO NOT OR CANNOT LEAVE THE WORK AREA IN TIME TO ALLOW WORK TO PROCEED, THE PCA REPRESENTATIVE MUST BE CONSULTED AND MAY DECIDE EITHER TO STOP / DELAY WORK OR MOVE AN ANIMAL (WITH THE ASSISTANCE OF WILDLIFE AUTHORITIES) IF IT IS APPROPRIATE AND POSSIBLE TO DO SO WITHOUT CAUSING HARM TO THAT ANIMAL OR OTHER WILDLIFE.
52. IN THE EVENT THAT A NEST, DEN, OR OTHER SENSITIVE WILDLIFE FEATURE IS PRESENT IN THE AREA TO BE IMPACTED BY CONSTRUCTION, THE PCA REPRESENTATIVE MUST BE NOTIFIED. THE PCA REPRESENTATIVE WILL CONSULT APPROPRIATE STAFF AND PARTNERS TO DECIDE UPON MEASURES TO PROTECT THE FEATURE THAT ARE APPROPRIATE TO THE SPECIES.
53. EXTRA CARE MUST BE TAKEN TO AVOID RUNNING OVER WILDLIFE THAT MAY BE UTILIZING THE TRAIL OR FREQUENTING THE CONSTRUCTION AREAS. THE ENVIRONMENTAL SURVEILLANCE OFFICER (ESO) WILL INSPECT THE TRAIL FOR WILDLIFE EVIDENCE AT ANY TIME.
54. IN ORDER TO COMPLY WITH THE MIGRATORY BIRDS CONVENTION ACT, TREE TRIMMING AND/OR REMOVALS MUST BE COMPLETED PRIOR TO APRIL 1, OR AFTER AUGUST 30TH. ANY TREE REMOVALS OR TRIMMING BETWEEN APRIL 1 AND AUGUST 30 MUST BE COMPLETED UNDER THE SUPERVISION OF PARKS CANADA RESOURCE CONSERVATION STAFF.
55. DURING THE BREEDING BIRD WINDOW (APRIL 1 - AUGUST 15), WORK WILL BE RESTRICTED TO THE HOURS OF 8am AND 5pm (AFTER DAWN AND BEFORE DUSK) TO AVOID THE HIGHEST ACTIVITY LEVELS OF WILDLIFE.
56. TO MINIMIZE THE LIKELIHOOD OF BIRD NESTING AT CONSTRUCTION SITE, ANY CONSTRUCTION OCCURRING BETWEEN APRIL 1 AND AUGUST 30 IS RESTRICTED TO AREAS ALREADY DISTURBED (E.G. BY CONSTRUCTION, TREE REMOVAL, ESTABLISHMENT OF STAGING AREAS, FARMING). ONLY CONSTRUCTION THAT HAD STARTED BEFORE APRIL 1 MAY CONTINUE INTO THE BREEDING BIRD WINDOW. BREEDING BIRD SURVEYS (AS PER ENVIRONMENT CANADA GUIDELINES) AND/OR WETLAND BIRD MONITORING SURVEYS (MARSH MONITORING PROTOCOL) (DEPENDING ON CORRESPONDING HABITAT) DURING CONSTRUCTION AS DEEMED SUITABLE BY THE ESO. IF BIRDS ARE CONSIDERED 'CONFIRMED' BREEDING OR 'PROBABLE' BREEDING AS PER ENVIRONMENT CANADA GUIDELINES AND WORK IS CONSIDERED ABOVE THE ESTABLISHED IMPACT THRESHOLD WITHIN KNOWN DISTANCES FROM A NEST, WORK MAY BE STOPPED.
57. THE ESO WILL BEGIN MONITORING THE SITE FOR SNAKE AND TURTLE PRESENCE AS SOON AS TEMPERATURES REACH 10°C. IF WORKERS ENCOUNTER ANY SNAKES OR TURTLES DURING CONSTRUCTION WHEN THE ESO IS NOT PRESENT, WORK WILL BE STOPPED UNTIL THE ESO CAN RELOCATE THE ANIMALS OUT OF THE WORK AREA.
58. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PCA REPRESENTATIVE IF SPECIES AT RISK ARE ENCOUNTERED WITHIN, OR IN THE IMMEDIATE VICINITY OF ANY ACTIVE CONSTRUCTION AREA OR MATERIAL STAGING AREA, AND SHALL CEASE WORK IN THE AREA UNTIL DIRECTION IS PROVIDED BY THE PCA REPRESENTATIVE.
59. MANY SPECIES AT RISK MAY BE PRESENT IN THE GENERAL VICINITY OF THE WORK AREA AND COULD BE OBSERVED ON OR NEAR THE SITE, INCLUDING, BUT NOT LIMITED TO, BUTTERNUT TREES, MONARCHS, BOBOLINKS, BARN SWALLOW, WOOD THRUSHES, EASTERN WOOD-PECKERS, EASTERN MEADOWLARKS, BANK SWALLOWS, GRASSHOPPER SPARROWS, LITTLE BROWN MYOTIS, NORTHERN MYOTIS, TRICOLOURED BATS, BLANDING'S TURTLES, SNAPPING TURTLES, EASTERN MILKSNAKES AND YELLOW-BANDED BUMBLE BEES. ON-SITE WORKERS MUST BE MADE AWARE OF AND SUBSEQUENTLY REPORT ANY INCIDENTAL SIGHTINGS OF SPECIES AT RISK IMMEDIATELY TO PCA REPRESENTATIVE.
60. IF WILDLIFE ARE OBSERVED AT OR NEAR THE WORK SITE, ALLOW THE ANIMAL(S) THE OPPORTUNITY TO LEAVE THE WORK AREA BEFORE PROCEEDING WITH WORK.
61. ALERT THE PCA REPRESENTATIVE IMMEDIATELY OF ANY POTENTIAL WILDLIFE CONFLICT (E.G., AGGRESSIVE BEHAVIOUR, PERSISTENT INTRUSION), DISTRESS OR MORTALITY. IN THE CASE OF AGGRESSIVE BEHAVIOUR OR PERSISTENT INTRUSION, STOP WORK AND EVACUATE THE AREA.

INVASIVE SPECIES & CLEAN EQUIPMENT PROTOCOL

62. BRINGING EQUIPMENT ON SITE FOR TREATMENT AND OTHER VEHICLES ACCESSING THE SITE PROVIDES OPPORTUNITIES FOR THE SPREAD OF INVASIVE SPECIES. IMPLEMENTING CLEAN EQUIPMENT PROTOCOLS WILL BE AN IMPORTANT PART OF THE MANAGEMENT PLAN AND CONTROLLING ESTABLISHED POPULATIONS.
63. THOROUGH INSPECTIONS SHOULD BE DONE BEFORE AND AFTER A VEHICLE OR PIECE OF EQUIPMENT ENTERS THE SITE. INSPECT THE VEHICLE/EQUIPMENT INSIDE AND OUT FOR DIRT, PLANT MATERIAL AND SEEDS THAT MAY BE STUCK ON SURFACES.
64. REMOVE ANY GUARDS, COVERS OR PLATES THAT ARE EASILY REMOVED AND PAY SPECIAL ATTENTION TO THE UNDERSIDE OF THE VEHICLE/EQUIPMENT, RADIATORS, SPARE TIRES, FOOT WELLS AND BUMPER BARS.
65. IF ANYTHING IS IDENTIFIED, THE VEHICLE/EQUIPMENT WILL NEED TO BE CLEANED IN AN AREA WHERE SEED SPREAD IS NOT POSSIBLE.
66. NOTE THAT THIS PROJECT IS LOCATED IN AN AREA WHERE INVASIVE PLANT SPECIES ARE PREVALENT (ESPECIALLY THE EUROPEAN COMMON REED (PHRAGMITES AUSTRALIS), DOG-STRANGLING VINE (CYNANCHUM ROSSICUM)), EUROPEAN BUCKTHORN (RAUHMUS CATHARTICA) AND JAPANESE KNOTWEED (FALLOPIA JAPONICA), TO PREVENT THE SPREAD OF INVASIVE SPECIES ALL CONSTRUCTION EQUIPMENT MUST BE CLEANED PRIOR TO ENTERING OR LEAVING THE SITE, ACCORDING TO THE ONTARIO INVASIVE PLANT COUNCIL'S CLEAN EQUIPMENT PROTOCOL FOR INDUSTRY (2016).
67. TO MINIMIZE THE SPREAD OF INVASIVE PLANT SPECIES WHERE NOTED ON PLAN, SOIL FROM ANY EXCAVATION WITHIN THESE ZONES SHALL NOT BE PLACED OUTSIDE THE ZONE (I.E. DO NOT SPREAD SEEDS, SEEDBANK, ROOTS OR STEMS). LIKEWISE, ANY BRUSH, BRANCHES, STEMS OR WOOD CHIPPINGS FROM PLANTS WITHIN THIS ZONE MUST BE DISTRIBUTED WITHIN THE ZONE.
68. AREAS OF STINGING WOOD NETTLE HAVE BEEN IDENTIFIED ON THE PLANS. CONTRACTOR TO EXERCISE CAUTION WHEN WORKING IN THESE AREAS.
69. AREAS OF ENDANGERED MILKWEED PLANTS HAVE ALSO BEEN IDENTIFIED ON THE PLANS. CONTRACTOR TO AVOID DISTURBANCE IN THESE AREAS WHERE POSSIBLE.

70. ANY MACHINERY USED WITHIN AREAS CONTAINING INVASIVE SPECIES MUST BE THOROUGHLY WASHED PRIOR TO TRAVELING/WORKING ELSEWHERE ON SITE TO PREVENT POTENTIAL CONTAMINATION.
71. CONTRACTOR TO NOTIFY THE PARKS CANADA ENVIRONMENTAL SURVEILLANCE OFFICER IMMEDIATELY OF ANY SUSPECTED SOIL/ALL CONTAMINATION, CHEMICAL, PETROLEUM, OR UNUSUAL ODOUR, UNUSUAL DEBRIS SUCH AS METAL, PLASTIC, GLASS OR DEMOLITION WASTE, DARK OR UNUSUAL STAINING. SUSPECT SOILS MUST BE ANALYZED FOR CONTAMINATION AND DISPOSED OF AT AN APPROVED DISPOSAL SITE.

TREE PRESERVATION NOTES

72. AN ISA CERTIFIED ARBORIST SHALL BE ON SITE FOR ANY WORK WHICH IMPACTS ANY TREE OR TREE PROTECTION ZONE.
73. TREES ARE TO BE PRESERVED AS MUCH AS POSSIBLE. IN FORESTED AREAS, MATURE TREES MAY BE PRESERVED ALONG THE TRAIL EDGE AND THE TRAIL WIDTH MAY BE REDUCED TO A MINIMUM OF 2.0m IN ORDER TO PRESERVE MATURE TREES.
74. TREE ROOTS SHOULD NOT BE EXCAVATED WITHIN THE CRITICAL STRUCTURAL ROOTING AREA. THIS IS THE MINIMUM AREA OF THE ROOT SYSTEM NECESSARY TO MAINTAIN VITALITY OR STABILITY OF THE TREE. TYPICALLY THIS AREA EXTENDS TO THE DRIPLINE OF THE TREE. THE SEVERING OF ONE ROOT CAN CAUSE APPROXIMATELY 5-20% LOSS OF THE ROOT SYSTEM. A REDUCTION OF THIS AREA BY GREATER THAN 30% CAN POSE STABILITY CONCERNS FOR THE TREE.
75. ROOTS OVER 2.5CM DIAMETER THAT ARE TO BE CUT SHOULD BE PRUNED RATHER THAN LEFT TORN OR CRUSHED.
76. AT THE COMPLETION OF CONSTRUCTION PRUNE ROOTS CLEANLY USING ACCEPTABLE ARBORICULTURAL PRACTICES AND IMMEDIATELY BACKFILL WITH APPROPRIATE MATERIAL. THE FOLLOWING ARE GENERAL METHODS OF ROOT PRUNING TO TO UTILIZED WHEN GRADING / CONSTRUCTION WILL OCCUR WITHIN THE DRIPLINE OF TREES:

76.1. SOIL EXCAVATION USING SUPERSONIC AIR TOOLS, PRESSURIZED WATER OR HAND TOOLS, FOLLOWED BY SELECTIVE ROOT CUTTING.

76.2. CUTTING THROUGH THE SOIL ALONG A PREDETERMINED LINE ON THE SURFACE USING TOOL SPECIFICALLY DESIGNED TO CUT ROOTS.

76.3. MECHANICALLY EXCAVATING (E.G. BACKHOE) THE SOIL AND PRUNING WHAT IS LEFT OF THE EXPOSED ROOTS.

76.4. CUTS TO BE MADE WITH HAND PRUNING SHEARS, BY-PASS BLADE, PRUNING DO NOT USE ANVIL TYPE PRUNERS.
77. ALL PRUNING CUTS SHOULD BE MADE TO A GROWING POINT SUCH AS A BUD, TWIG OR BRANCH, CUT JUST OUTSIDE THE BRANCH COLLAR (THE SWOLLEN AREA AT THE BASE OF THE BRANCH THAT SOMETIMES HAS A BARK RIDGE), AND PERPENDICULAR TO THE BRANCH BEING PRUNED RATHER THAN AS CLOSE TO THE TRUNK AS POSSIBLE. THIS MINIMIZES THE SITE OF THE WOUND. NO STUBS SHOULD BE LEFT. POOR CUT LOCATION, POOR CUT ANGLE AND TORN CUTS ARE NOT ACCEPTABLE.
78. EXTENSIVE PRUNING IS BEST COMPLETED BEFORE PLANTS BREAK DORMANCY. PRUNING SHOULD BE LIMITED TO THE REMOVAL OF NO MORE THAN ONE THIRD (1/3) OF THE TOTAL BUD AND LEAF BEARING BRANCHES. PRUNING SHOULD INCLUDE THE CAREFUL REMOVAL OF DEADWOOD, BRANCHES THAT ARE WEAK, DAMAGED, DISEASED AND THOSE WHICH WILL INTERFERE WITH CONSTRUCTION ACTIVITY, SECONDARY LEADERS OF CONIFERS, TRUNK AND ROOT SUCKERS, TRUNK WATERSPOUTS, AND TIGHT V-SHAPED OR WEAK CROTCHES (INCLUDED UNIONS).
79. THE CONTRACTOR MUST IMMEDIATELY REPORT ANY DAMAGE TO TREES SUCH AS BROKEN LIMBS, DAMAGE TO ROOTS, OR WOUNDS TO THE MAIN TRUNK OR STEM SYSTEMS SO THAT THE DAMAGE CAN BE ASSESSED IMMEDIATELY.
80. THE TREE PROTECTION FENCING WILL BE MAINTAINED UNTIL ALL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED AND ALL OF THE EQUIPMENT HAS BEEN REMOVED FROM THE SITE.
81. ALL LIMBS DAMAGED OR BROKEN DURING THE COURSE OF CONSTRUCTION SHOULD BE PRUNED CLEANLY, UTILIZING BY-PASS SECATEURS IN ACCORDANCE WITH APPROVED HORTICULTURAL PRACTICES. ANY BRANCHES THAT OVERHANG THE WORK AREA AND REQUIRE PRUNING ARE TO BE PRUNED USING GOOD ARBORICULTURAL PRACTICES UTILIZING BY-PASS SECATEURS IN ACCORDANCE WITH APPROVED HORTICULTURAL PRACTICES AND/OR AMERICAN NATIONAL STANDARD (ANSI) A300 (PART 1) - 2008 PRUNING.
82. FOR A DETAILED DESCRIPTION OF TREE SPECIES, SIZE, CONDITION AND RECOMMENDATIONS REFER TO THE HAZARD TREE INVENTORY PREPARED BY DILLON CONSULTING LIMITED.

83. SEED MIXES TO BE SUPPLIED BY SASSAFRAS FARMS, ST. WILLIAMS NURSERY AND ECOLOGY CENTRE, OR APPROVED ALTERNATIVE. ALL SEED BAGS / CONTAINERS TO BE SEALED UPON ARRIVAL AT SITE WITH ORIGINAL SUPPLIER'S SEED MIX NAME AND COMPOSITION CLEARLY LABELED ON OUTSIDE OF CONTAINER.
84. SEEDING SHALL BE APPLIED TO ALL AREAS DISTURBED BY THE CONSTRUCTION OPERATION THAT WILL NOT BE COVERED WITH GRANULAR TRAIL OR PARKING LOT SURFACING.
85. IN PREPARATION FOR SEEDING, ALL SURFACE AREAS MUST BE UNIFORMLY GRADED AND SHALL BE FREE OF EROSION, CONCRETE, METAL, GLASS OR OTHER NON-ORGANIC DEBRIS AND UNWANTED MATERIALS. EXISTING SURFACE SOIL SHALL BE UNIFORMLY CULTIVATED TO A MINIMUM DEPTH 50mm TO PROVIDE A LOOSE AND FRIABLE SEEDBED TO ACCELERATE GERMINATION OF SEED.
86. SEEDING SHALL BE BY MECHANICAL BROADCAST METHOD (E.G. HAND HELD OR WALK-BEHIND SPREADER) ON TO PREPARED SURFACE AND LIGHTLY HAND RAKED FOLLOWING APPLICATION TO ENSURE SEED CONTACT WITH SOIL.
87. ALL SEED TO BE INSTALLED IN ACCORDANCE WITH SUPPLIER'S INSTRUCTIONS.
88. SEED SHALL NOT BE APPLIED UNTIL CONTAINER AND LABELING HAS BEEN REVIEWED AND APPROVED BY PCA REPRESENTATIVE.

SEEDING NOTES

83. SEED MIXES TO BE SUPPLIED BY SASSAFRAS FARMS, ST. WILLIAMS NURSERY AND ECOLOGY CENTRE, OR APPROVED ALTERNATIVE. ALL SEED BAGS / CONTAINERS TO BE SEALED UPON ARRIVAL AT SITE WITH ORIGINAL SUPPLIER'S SEED MIX NAME AND COMPOSITION CLEARLY LABELED ON OUTSIDE OF CONTAINER.
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MIX 1: ST. WILLIAMS - BOBOLINK & MEADOWLARK SEED MIX

COMMON NAME	SPECIES	PERCENT %
RIVERBANK RYE	ELYMUS RIPARIUS	30
VIRGINIA RYE	ELYNUS VIRGINICUS	30
BIG BLUE STEM	ANDROPOGON GERARDII	10
CANADA RYE	ELYMUS CANADENSIS	10
SWITCH GRASS	PANICUM VIRGATUM	5
GOLD FRUITED SEDGE	CAREX AUREA	3
FRINGED SEDGE	CAREX CRINITA	2
ROUGH DROPSEED	SPOROBOLOUS ASPER	2
COMMON MILKWEED	ASCLEPIAS SYRIACA	2
BLUE Vervain	VERBENA HASTATA	2
VIRGINIA MOUNTAIN MINT	PHYCNANTHEMUM VIRGINIANUM	2
GREEN HEADED CONEFLOWER	RUDEBECKIA LACINIATA	1
BLUEJOINT	CALAMAGROSTIS CANADENSIS	1

SEED AT RATE OF 25KG/Ha

MIX 2: ST. WILLIAMS - STREAM CHANNEL AND WETLAND EDGE MIX

COMMON NAME	SPECIES	PERCENT %
RIVERBANK RYE	ELYMUS RIPARIUS	35
VIRGINIA RYE	ELYMUS VIRGINICUS	35
SWITCH GRASS	PANICUM VIRGATUM	8
GOLD FRUITED SEDGE	CAREX AUREA	3
BLUE Vervain	VERBENA HASTATA	3
HOP SEDGE	CAREX LUPINA	3
SWAMP MILKWEED	ASCELIAS INCARNATA	2
TALL SUNFLOWER	HELIANTHUS GIGANTEA	2
FRINGED SEDGE	CAREX CRINITA	2
SOFT RUSH	JUNCUS EFFUSUS	2
VIRGINIA MOUNTAIN MINT	PHYCNANTHEMUM VIRGINIANUM	2
GREEN HEADED CONEFLOWER	RUDEBECKIA LACINIATA	1
SNEEZEWEED	HELENIUM AUTUMNALE	1
GREEN HEADED CONEFLOWER	RUDEBECKIA LACINATA	1
TALL MANNA GRASS	GLYCERIA GRANDIS	1
GREAT ST. JOHN'S WORT	HYPERICUM ASCYRON	1

SEED AT RATE OF 25KG/Ha

MIX 3: ST. WILLIAMS - SEMI-SHADE FOREST EDGE MIX

COMMON NAME	SPECIES	PERCENT %
BOTTLE BRUSH GRASS	ELYMUS HYSTRIX	30
SILKY RYE	ELYMUS VILLOSUM	30
INDIAN GRASS	SORGHASTRUM NUTANS	10
BIG BLUESTEM	ANDROPOGON GERARDII	10
WILD COLUMBINE	AQUILEGIA CANADENSIS	8
GIANT YELLOWHYSSOP	AGASTACHE NEPETOIDES	3
SWITCH GRASS	PANICUM VIRGATUM	3
WHITE Vervain	VERBENA URTRICULATA	2
VIRGINIA MOUNTAIN MINT	PHYCNANTHEMUM VIRGINIANUM	2
DWARF BLAZING STAR	LIATRIS CYLINDRACEA	2

SEED AT RATE OF 25KG/Ha

- NURSE CROP:

• TO BE APPLIED TO ALL AREAS AT THE SAME TIME AS SEED MIXES 1, 2, AND 3.

• OATS (AVENA SATIVA), SEED AT RATE OF 30 KG/Ha.

SEEDING SCHEDULE:

- SEED TO BE APPLIED WITHIN 7 DAYS OF COMPLETION OF FINE GRADING
- DO NOT APPLY NATIVE SEED MIXES BETWEEN THE WINDOWS OF NOVEMBER 1 - MARCH 30 AND JULY 1 - AUGUST 30.



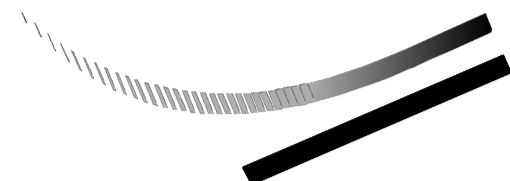
Parks Canada

Client

PARKS CANADA  
ROUGE NATIONAL URBAN PARK

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant



DILLON  
CONSULTING

Stamp



North

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5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
3	ISSUED FOR 60% SUBMISSION	2020.10.16
2	REVIEW SUBMISSION	2020.03.27
1	ISSUED FOR 30% SUBMISSION	2019.11.20

REVISIONS	DESCRIPTION	DATE
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project title	titre du projet
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NORTH EAST TRAIL

drawing title	titre du dessin
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LAYOUT NOTES

designed by	LB	conçu par
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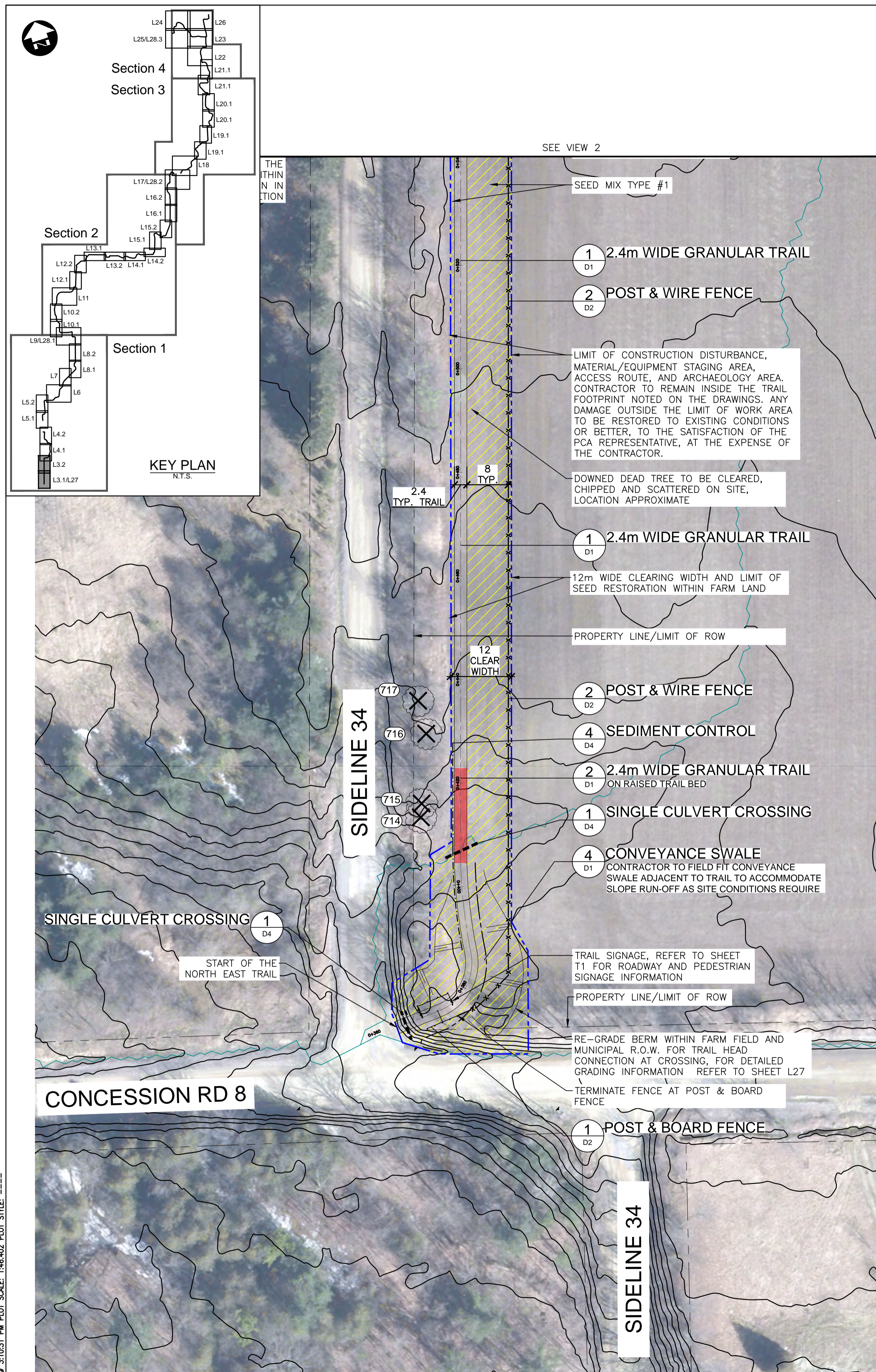
drawn by	LB	dessiné par
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approved by	EN	approuvé par
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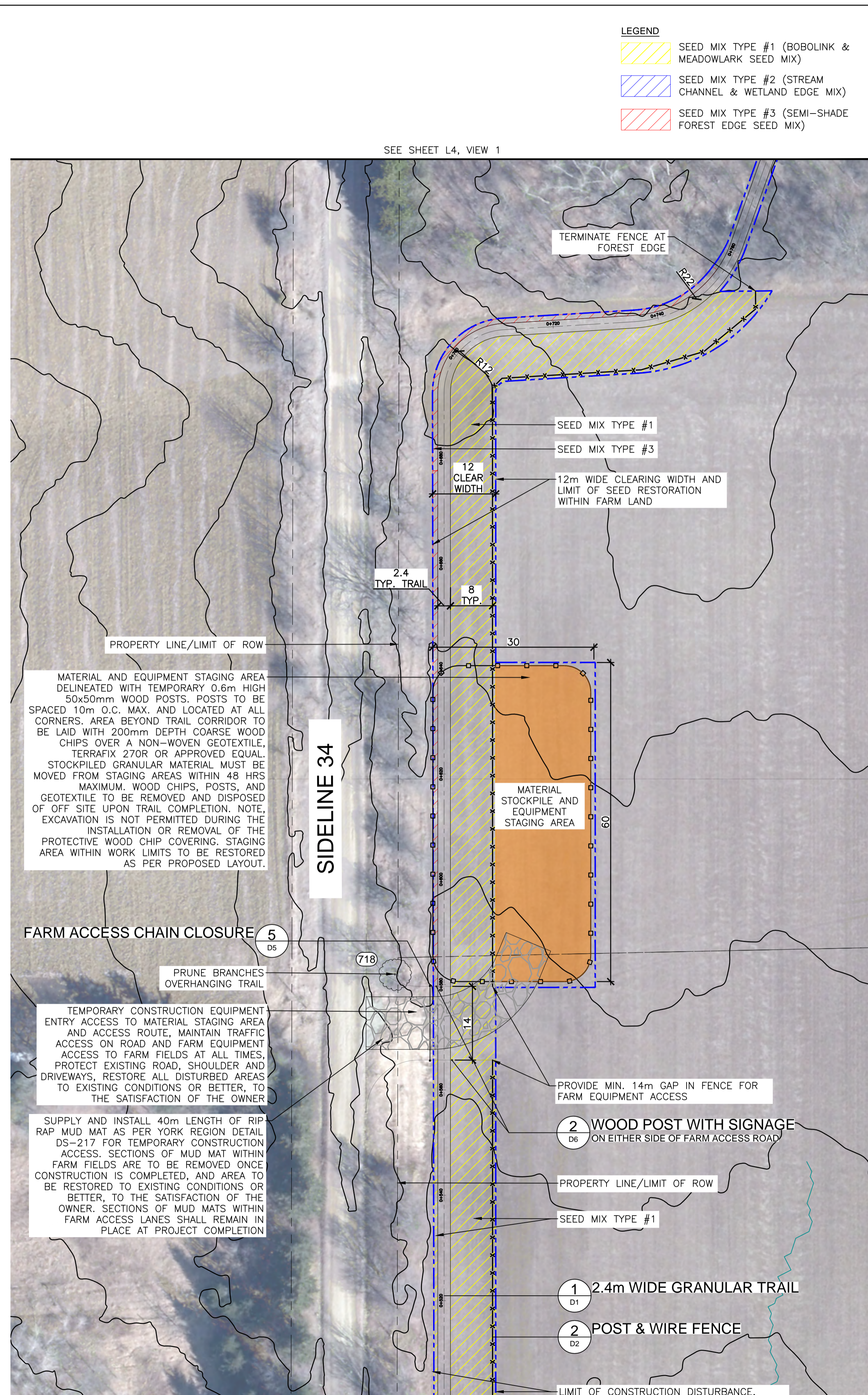
Parks Canada Project Manager	Administrateur de Projets Parcs Canada
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project no.	19-1500	projet no.		
date	OCTOBER 2019	date	2	OF 49





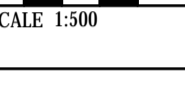
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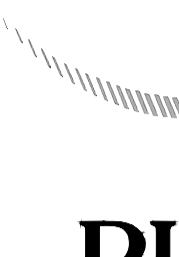








1 VIEW 1: TRAIL ALIGNMENT - SIDELINE 34  
1:500



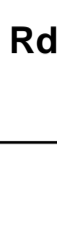

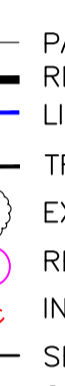



2 VIEW 2: TRAIL ALIGNMENT - SIDELINE 34  
1:500

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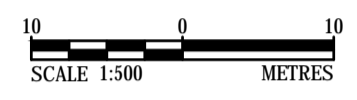
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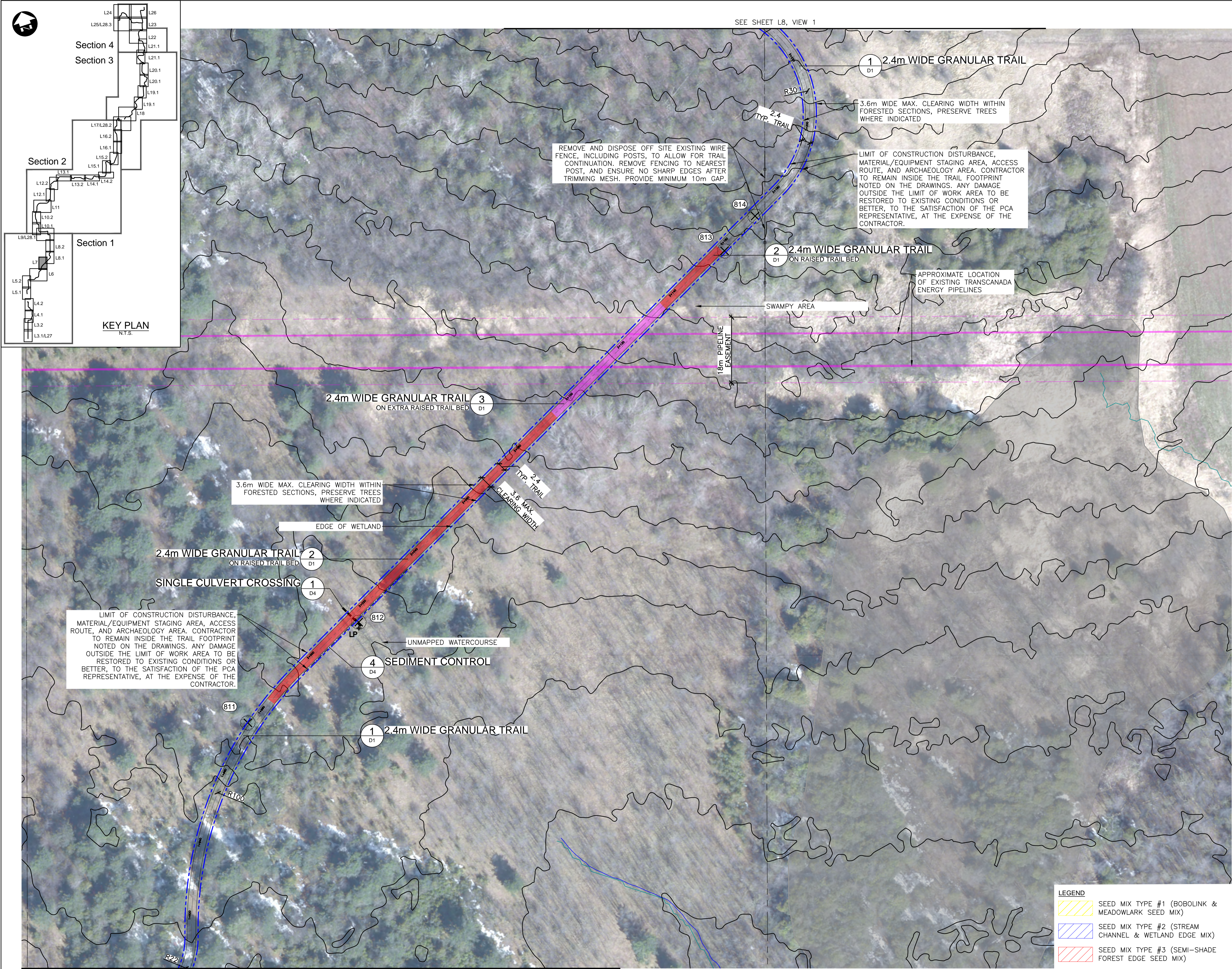


 SEED MIX TYPE #3 (SEMI-SHADE  
FOREST EDGE SEED MIX)



date	OCTOBER 2019	date	6 OF 49
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PLOT DATE: 2021-02-12 3:15:21 PM PLOT SCALE: 1:46,402 PLOT STYLE: -----



1 VIEW 1: TRAIL ALIGNMENT  
1:500

SEE SHEET L6, VIEW 1

SEE SHEET L8, VIEW 1

Client

**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant

Stamp

North

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project title

**NORTH EAST TRAIL**

drawing title

**LAYOUT PLAN**

designed by

LB

conçu par

drawn by

LB

dessiné par

approved by

EN

approuvé par

Parks Canada Project Manager

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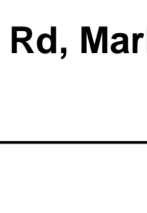
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**L7**





**Parks Canada**

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**PARKS CANADA**

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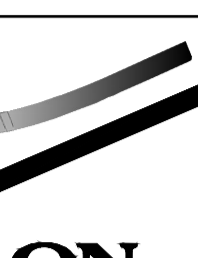
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Consultant




**DILLON**

**CONSULTING**

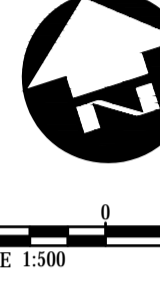
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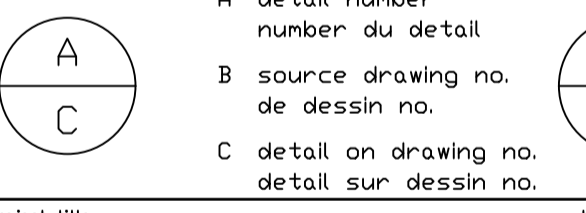
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3	ISSUED FOR 60% SUBMISSION	2020.10.1
2	REVIEW SUBMISSION	2020.03.2
1	ISSUED FOR 30% SUBMISSION	2019.11.2
REVISIONS	DESCRIPTION	DATE

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A detail number

B source drawing no.

C detail on drawing no.



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project title
titre du projet

**NORTH EAST TRAIL**

---

drawing title
titre du dessin

**LAYOUT PLAN**

---

designed by

drawn by

approved by

Parks Canada Project Manager

conçu par

dessiné par

approuvé par

Administrateur de Projets Parcs Canada

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scale

project no.

date

échelle

project no.

date

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1:500

**19-1500**

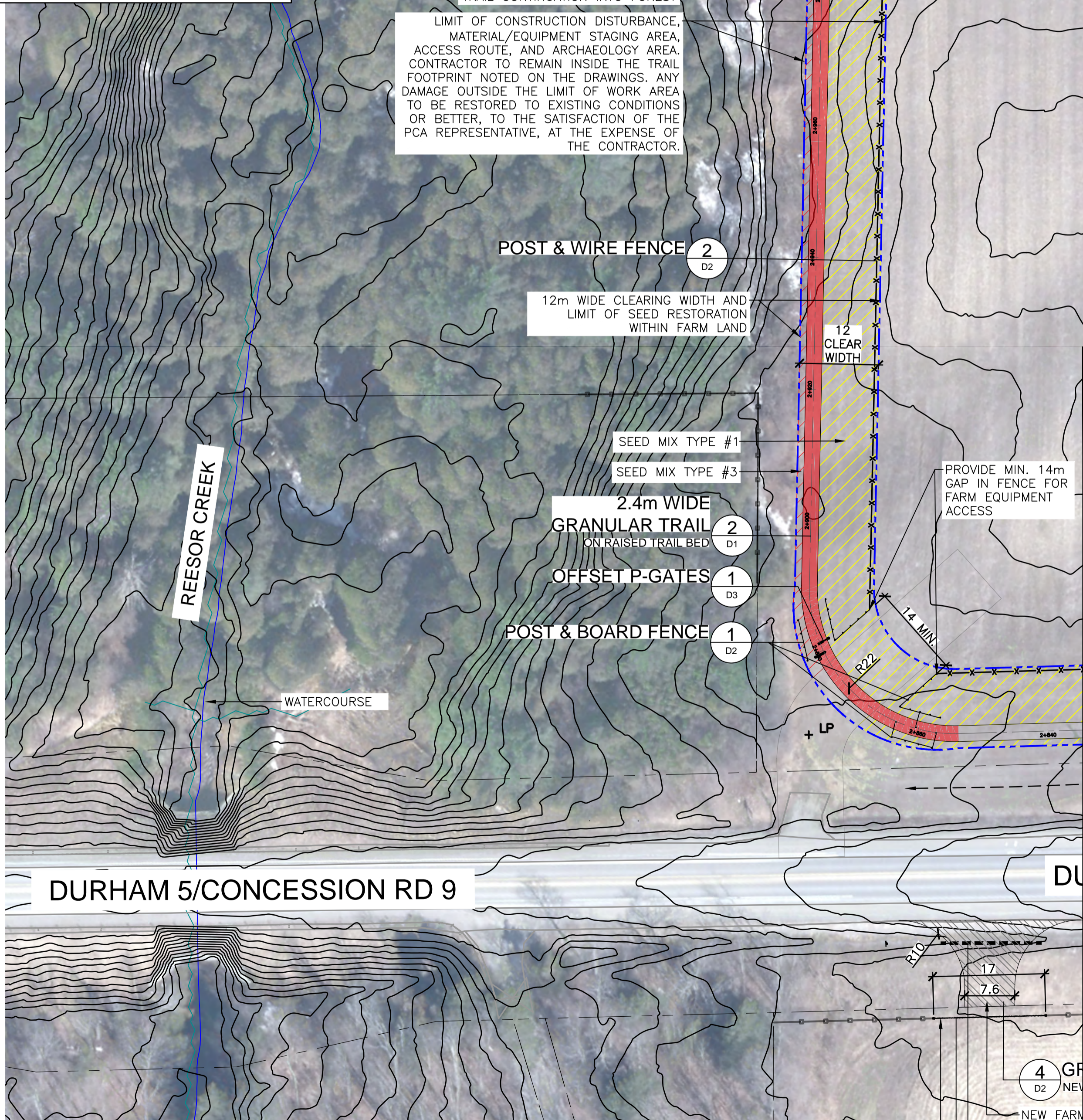
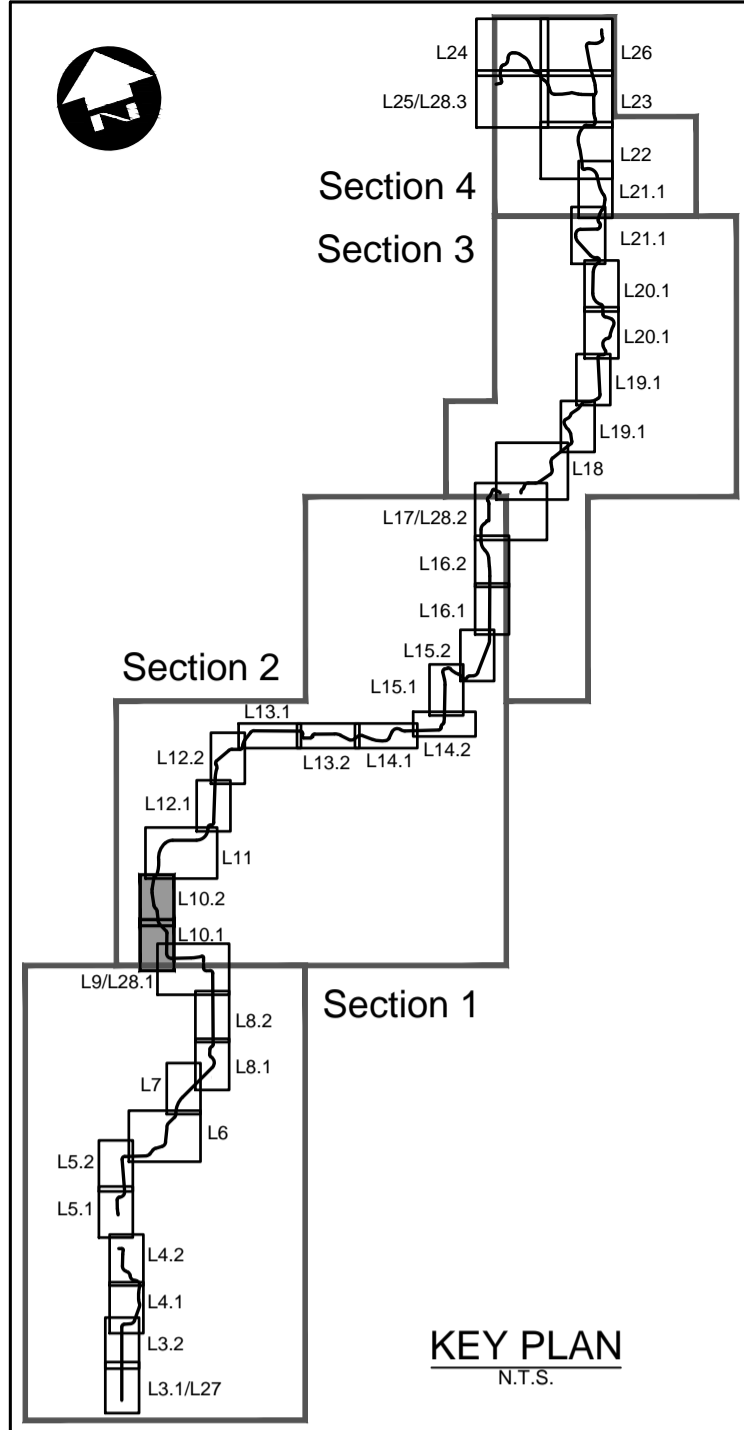
OCTOBER 2019

sheet

**L8**

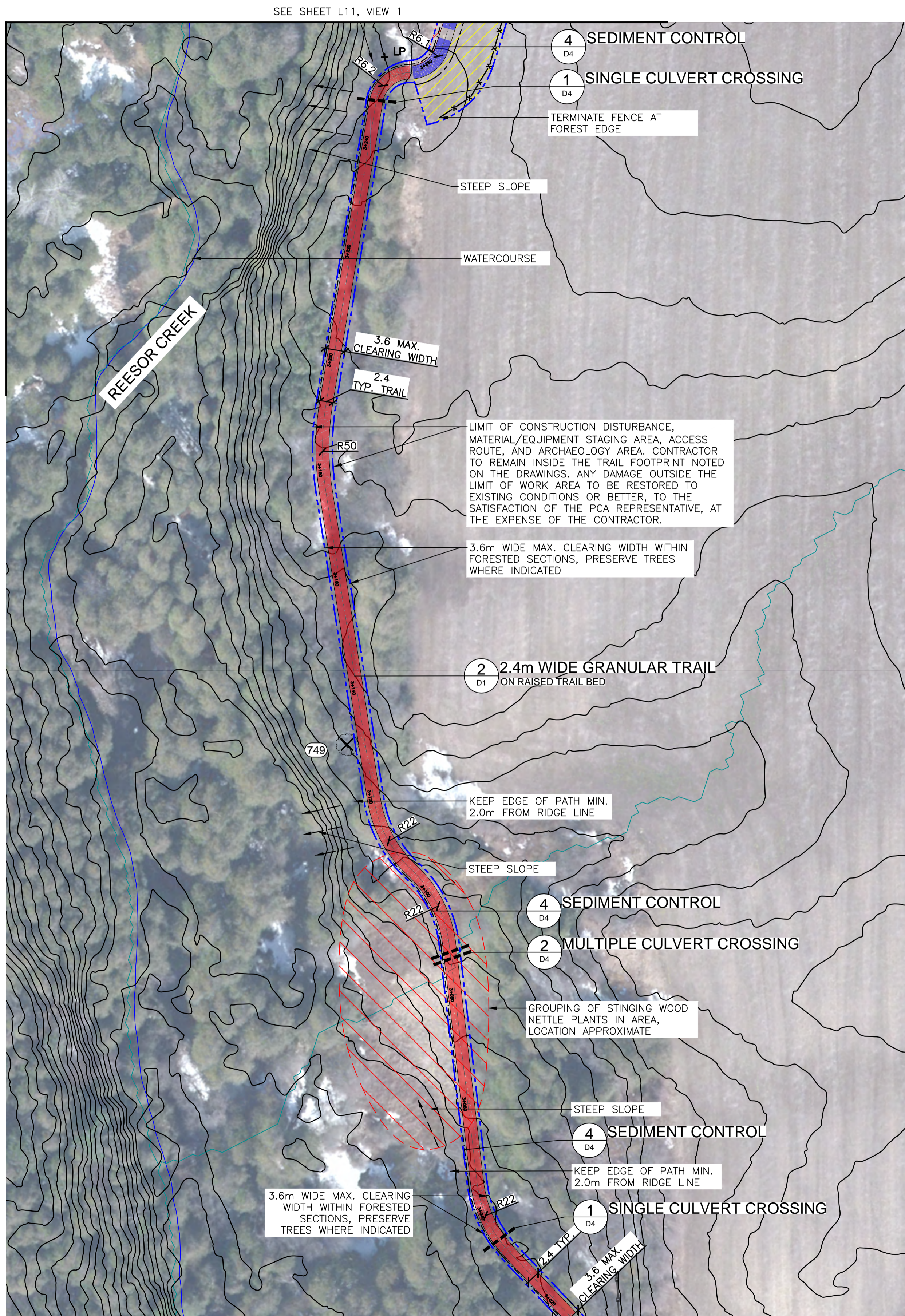
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1 VIEW 1: TRAIL ALIGNMENT  
1:500

SEE SHEET L9, VIEW 2



2 VIEW 2: TRAIL ALIGNMENT  
1:500

SEE VIEW 1

- LEGEND**
- SEED MIX TYPE #1 (BOBOLINK & MEADOWLARK SEED MIX)
  - SEED MIX TYPE #2 (STREAM CHANNEL & WETLAND EDGE MIX)
  - SEED MIX TYPE #3 (SEMI-SHADE FOREST EDGE SEED MIX)

Client

**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant

Stamp

North

SCALE 1:500  
METRES

**LEGEND**

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- LIMIT OF WORK
- TREE PROTECTION FENCING
- EX. HAZARD TREE TO BE REMOVED
- RETAIN & PROTECT EX. BUTTERNUTS
- INVASIVE SPECIES/DEBRIS REMOVAL
- SEDIMENT CONTROL
- CONVEYANCE SWALE
- CULVERT CROSSING
- 0.6m HT. STOCKPILE FENCING
- 1.2m HT. POST & BOARD FENCE
- 1.4m HT. POST & WIRE FENCE
- 2.4m WIDE GRANULAR TRAIL
- 2.4m WIDE RAISED GRANULAR TRAIL
- EXTRA RAISED GRANULAR TRAIL
- 2.4m WIDE BOARDWALK SECTIONS
- WOOD CHIP SURFACE
- STAIRCASE SECTIONS
- GRADE DIPS ALONG TRAIL
- ARMOURSTONE SEATING/BLOCKADE
- OFFSET P-GATES
- TRASH CANS (SUPPLIED BY PCA)
- GRANULAR SEATING NODES
- GRANULAR PARKING SURFACE

5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
3	ISSUED FOR 60% SUBMISSION	2020.10.16
2	REVIEW SUBMISSION	2020.03.27
1	ISSUED FOR 30% SUBMISSION	2019.11.20

REVISIONS	DESCRIPTION	DATE
A	detail number	number du detail
B	source drawing no.	de dessin no.
C	detail on drawing no.	detail sur dessin no.

project title

**NORTH EAST TRAIL**

drawing title

**LAYOUT PLAN**

designed by

LB

conçu par

drawn by

LB

dessiné par

approved by

EN

approuvé par

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

scale

1:500

échelle

sheet

feuille

project no.

19-1500

projet no.

**L10**

date

OCTOBER 2019

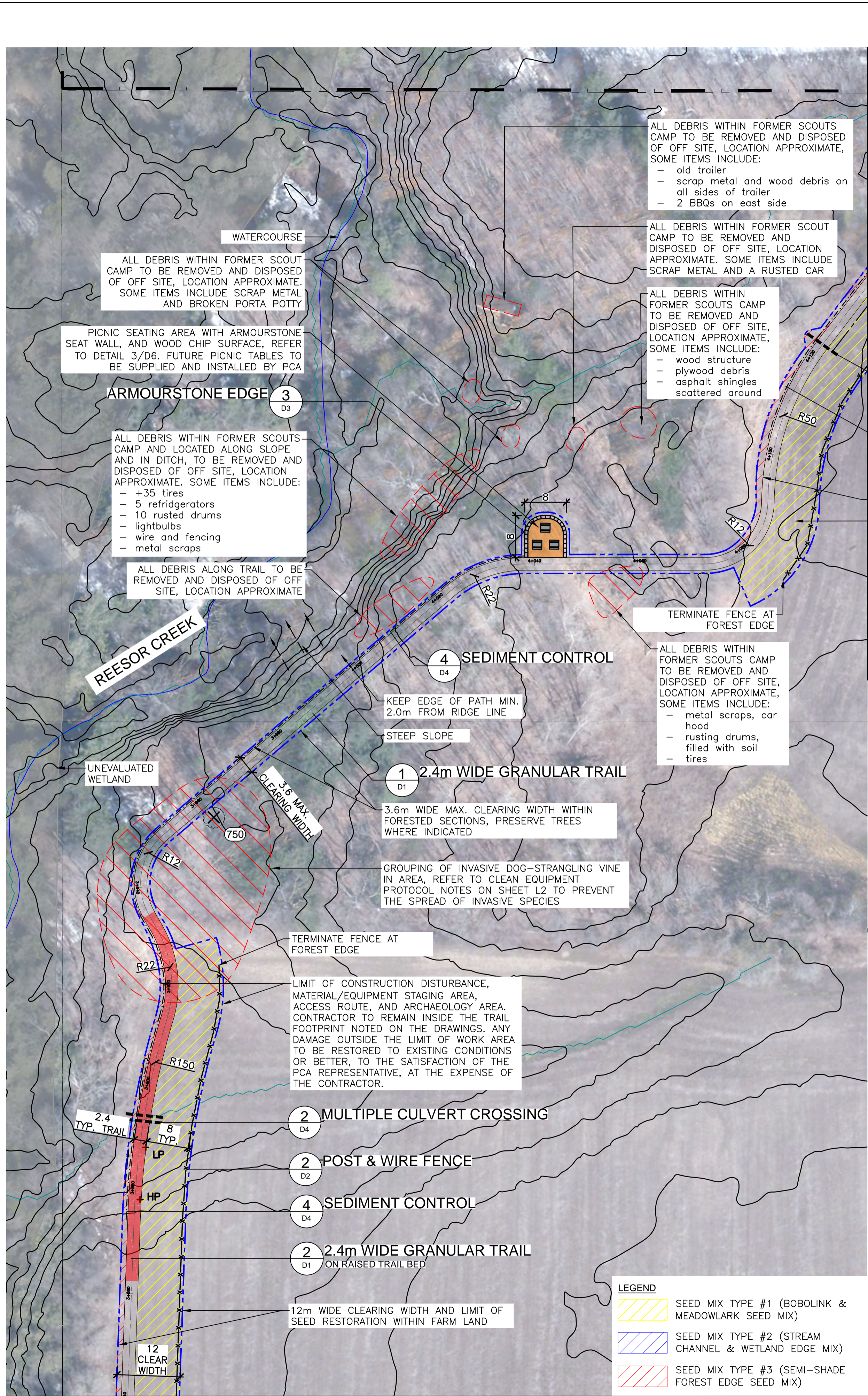
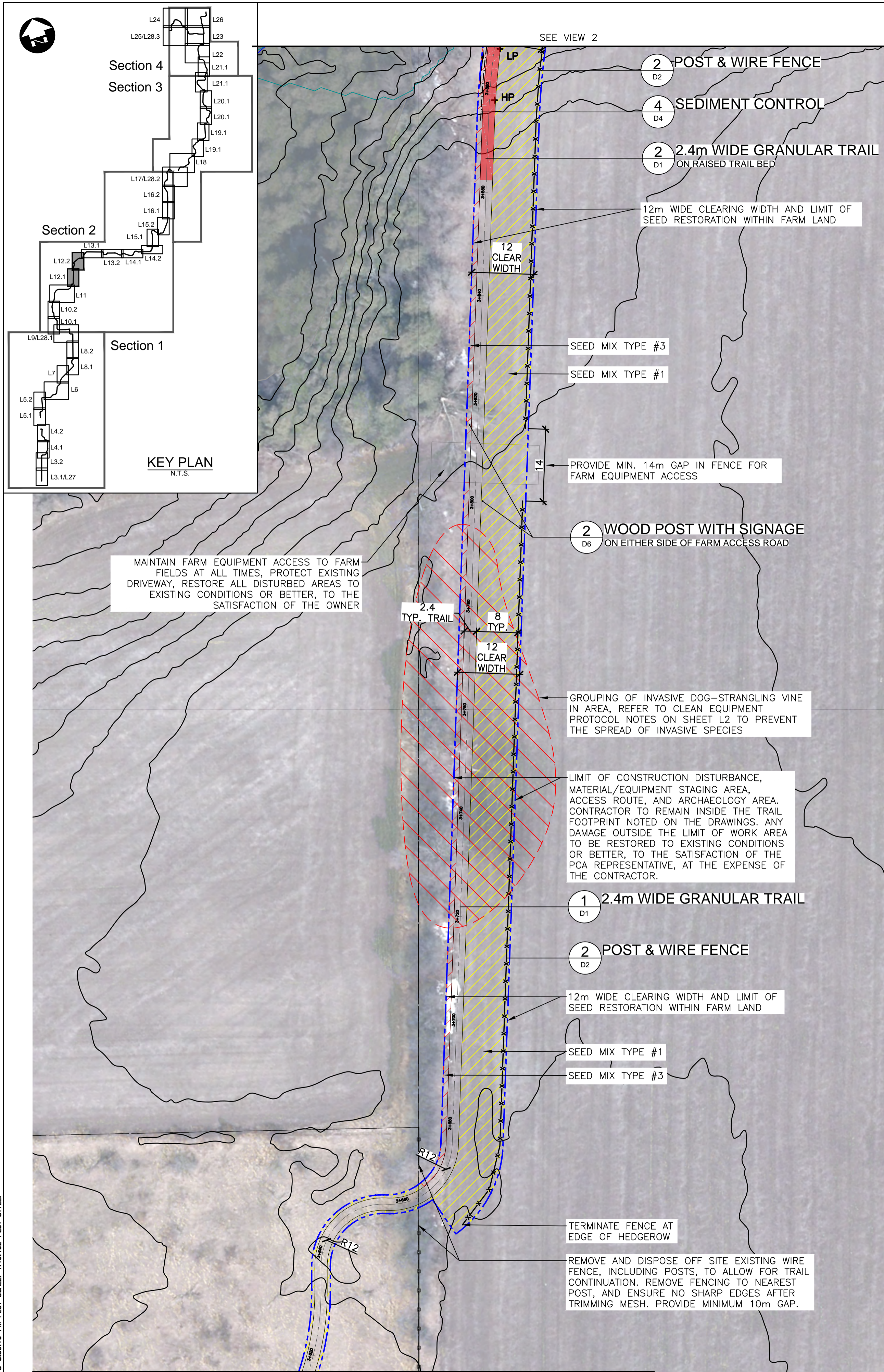
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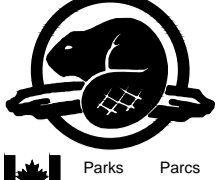
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date **OCTOBER 2019** date **11 OF 49**

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Parks Canada

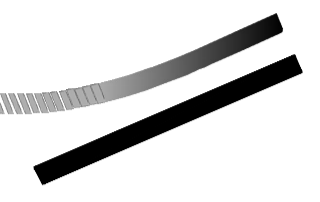
Client

**PARKS CANADA**

**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8


Consultant




**DILLON**

CONSULTING

Stamp



North



10 0 10

SCALE 1:500 METRES

**LEGEND**

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- LIMIT OF WORK
- TREE PROTECTION FENCING
- EX. HAZARD TREE TO BE REMOVED
- RETAIN & PROTECT EX. BUTTERNUTS
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1	ISSUED FOR 30% SUBMISSION	2019.11.20

A

C

A detail number  
number du detail

B

B source drawing no.  
de dessin no.

C

C detail on drawing no.  
detail sur dessin no.

project title

**NORTH EAST TRAIL**

titre du projet

drawing title

**LAYOUT PLAN**

titre du dessin

designed by

LB

conçu par

drawn by

LB

dessiné par

approved by

EN

approuvé par

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

scale

1:500

échelle

project no.

19-1500

proj. no.

date

OCTOBER 2019

date

sheet

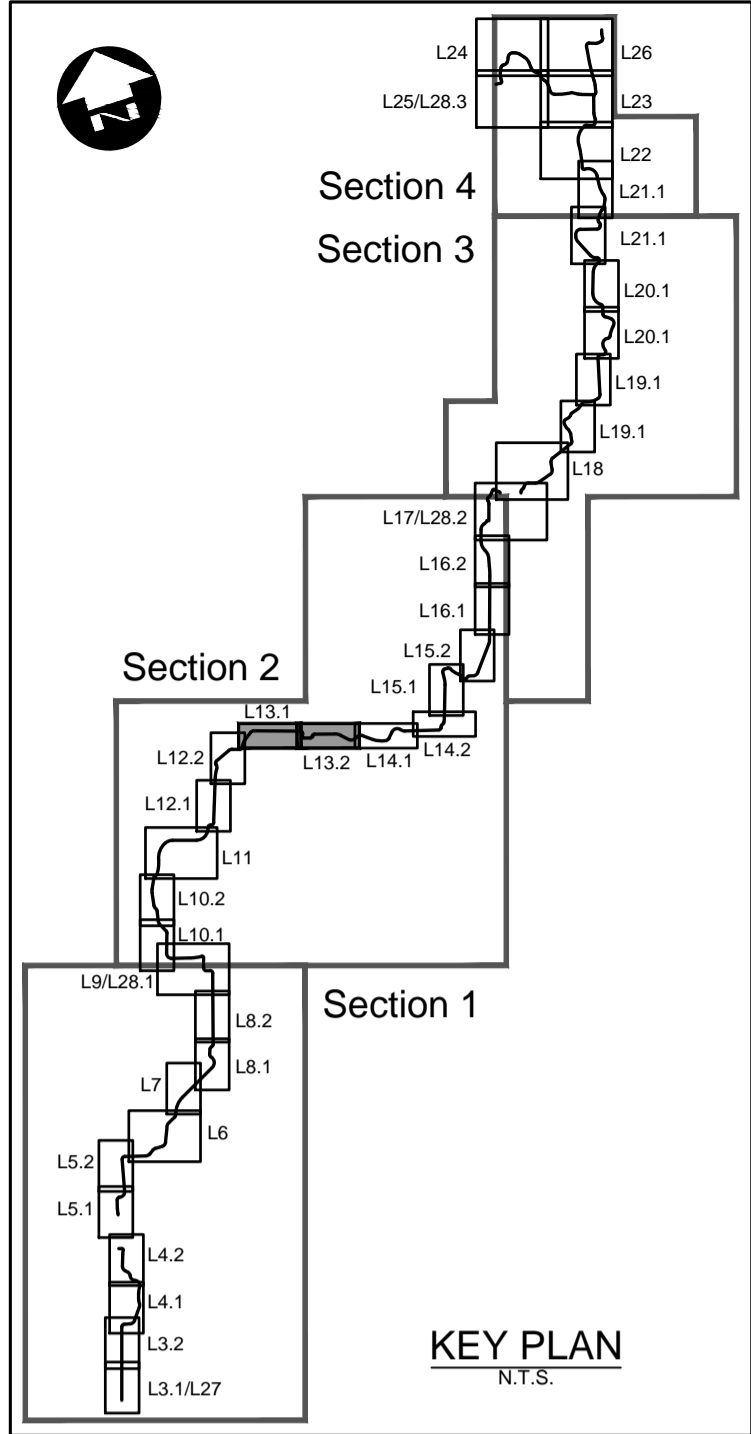
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feuille

12

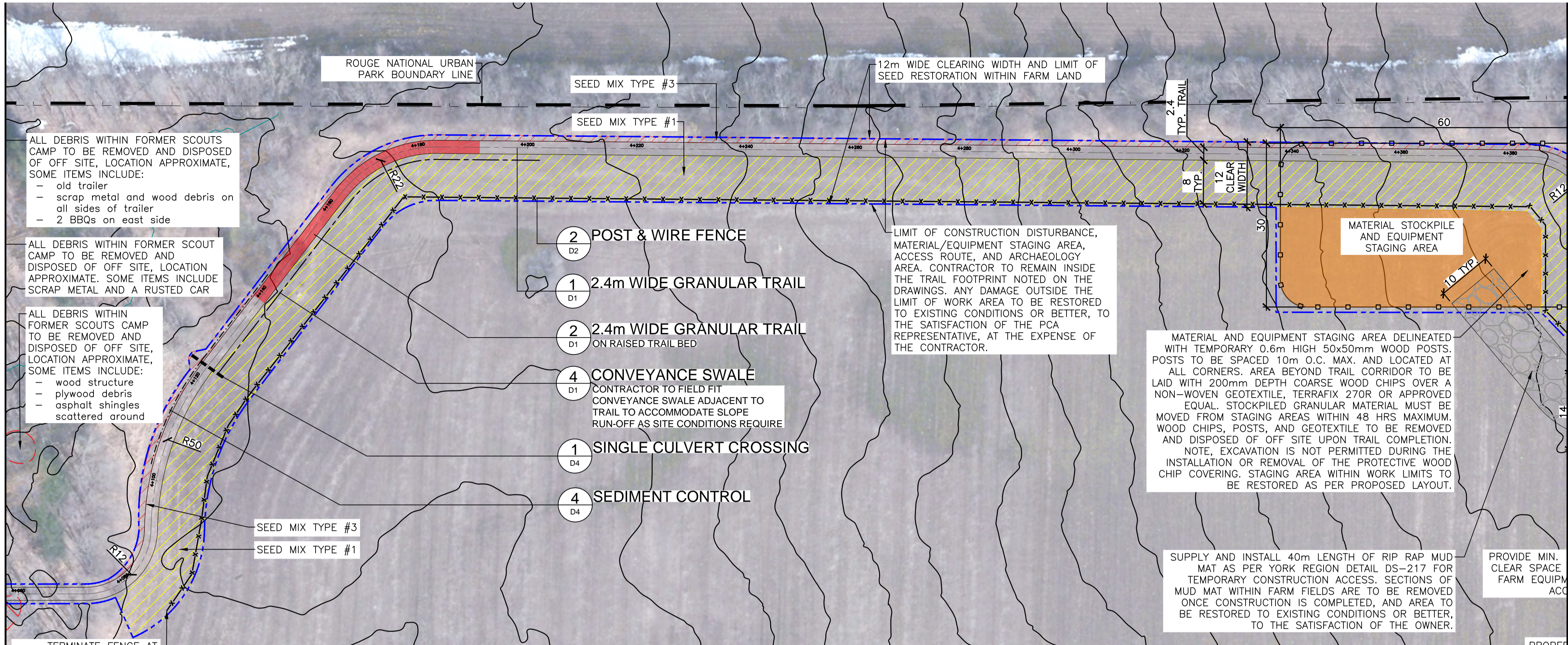
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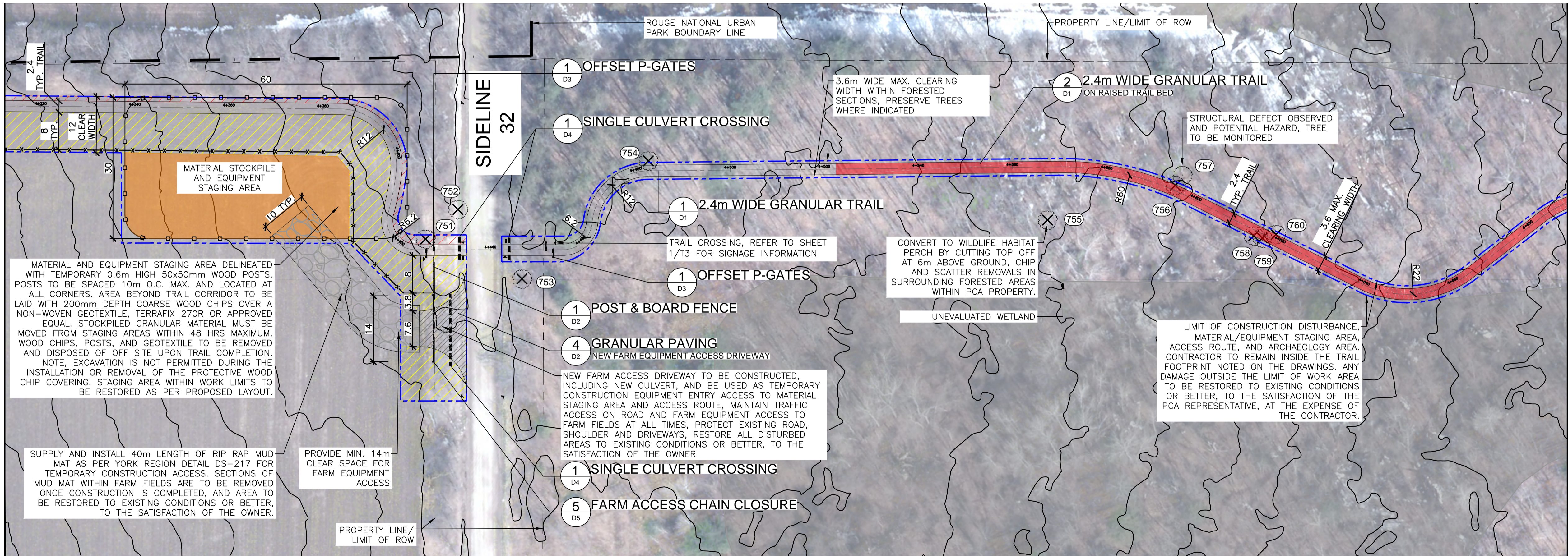
- LEGEND**
- SEED MIX TYPE #1 (BOBOLINK & MEADOWLARK SEED MIX)
  - SEED MIX TYPE #2 (STREAM CHANNEL & WETLAND EDGE MIX)
  - SEED MIX TYPE #3 (SEMI-SHADE FOREST EDGE SEED MIX)

SEE SHEET L12, VIEW 2



1 VIEW 1: TRAIL ALIGNMENT  
1:500

SEE VIEW 1



2 VIEW 2: TRAIL ALIGNMENT  
1:500

Client

**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant

Stamp

North

**LEGEND**

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- LIMIT OF WORK
- TREE PROTECTION FENCING
- EX. HAZARD TREE TO BE REMOVED
- RETAIN & PROTECT EX. BUTTERNUTS
- INVASIVE SPECIES/DEBRIS REMOVAL
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1	ISSUED FOR 30% SUBMISSION	2019.11.20

REVISIONS	DESCRIPTION	DATE
A	detail number	
B	source drawing no.	
C	detail sur dessin no.	

project title

**NORTH EAST TRAIL**

drawing title

**LAYOUT PLAN**

designed by LB conçu par

drawn by LB dessiné par

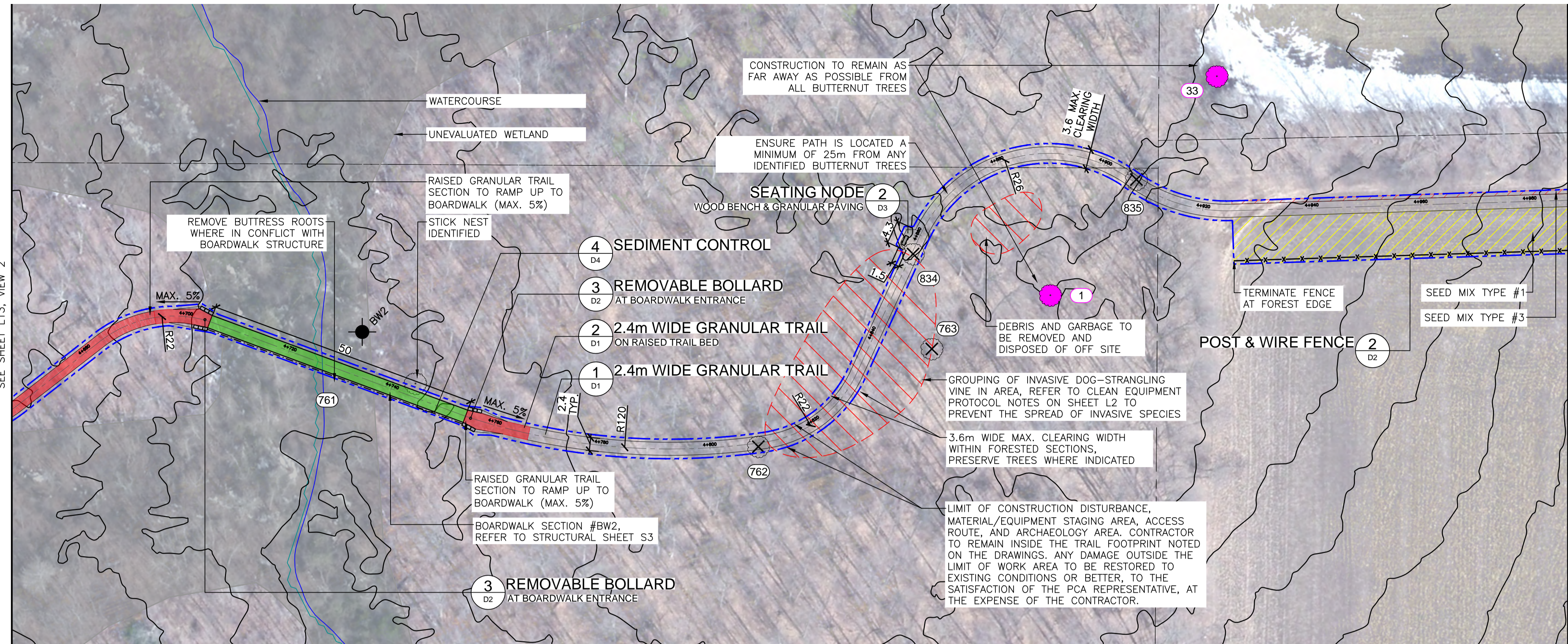
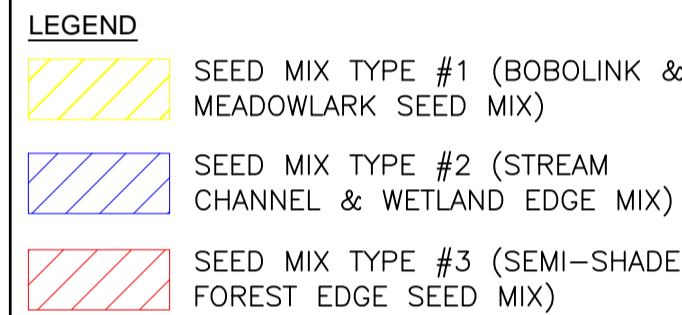
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Parks Canada Project Manager Administrateur de Projets Parcs Canada

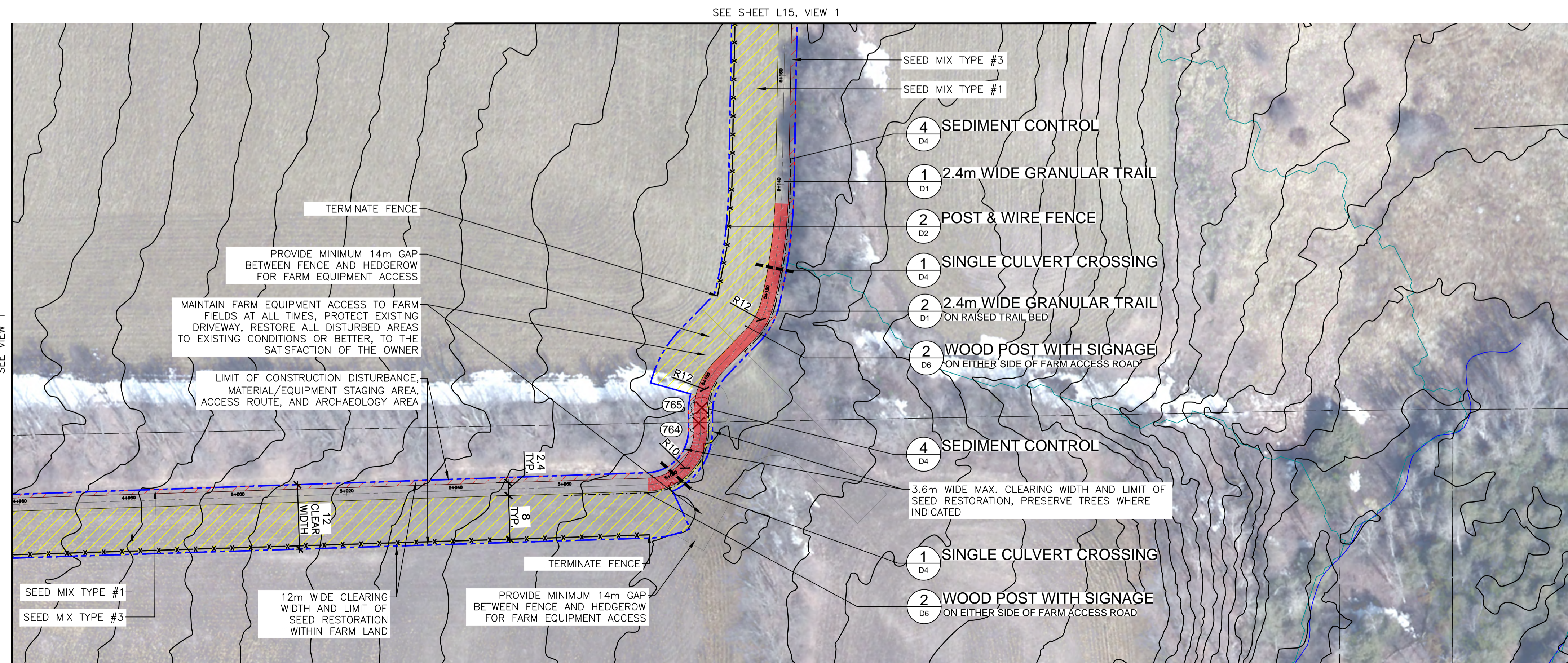
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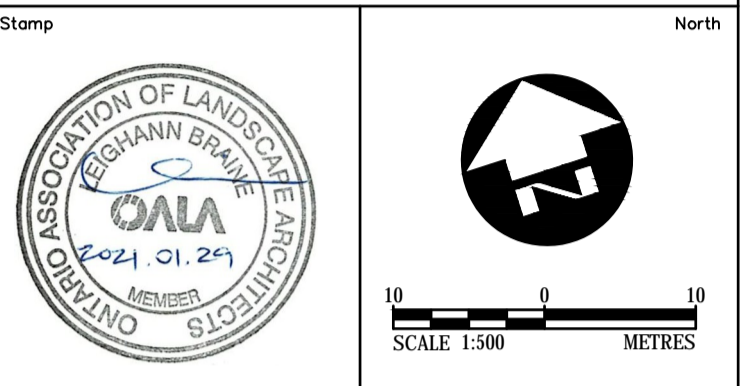
date OCTOBER 2019 date



1 VIEW 1: TRAIL ALIGNMENT  
1:500





2 VIEW 2: TRAIL ALIGNMENT  
1:500



LEGEND	
	PARCEL BOUNDARY/ROW
	RNUP BOUNDARY
	LIMIT OF WORK
	TREE PROTECTION FENCING
	EX. HAZARD TREE TO BE REMOVED
	RETAIN & PROTECT EX. BUTTERNUTS
	INVASIVE SPECIES/DEBRIS REMOVAL
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	GRADE DIPS ALONG TRAIL
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1	ISSUED FOR 30% SUBMISSION	2019.11.20
REVISIONS	DESCRIPTION	DATE

	<p>A detail number number du detail</p> <p>B source drawing no. de dessin no.</p> <p>C detail on drawing no. detail sur dessin no.</p>	
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project title	titre du projet
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## NORTH EAST TRAIL

drawing title	titre du dessin
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## LAYOUT PLAN

designed by	conçu par
LB	

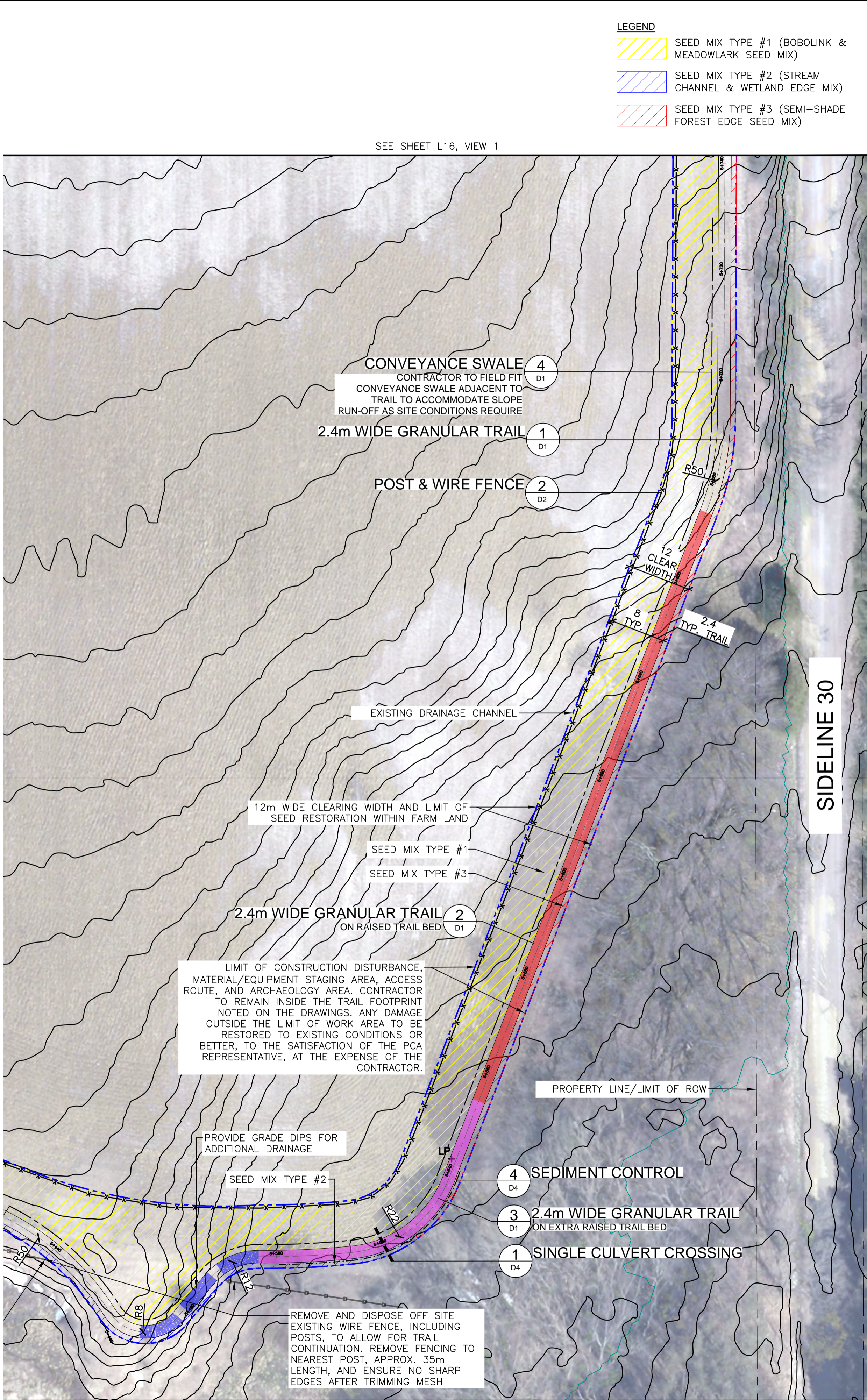
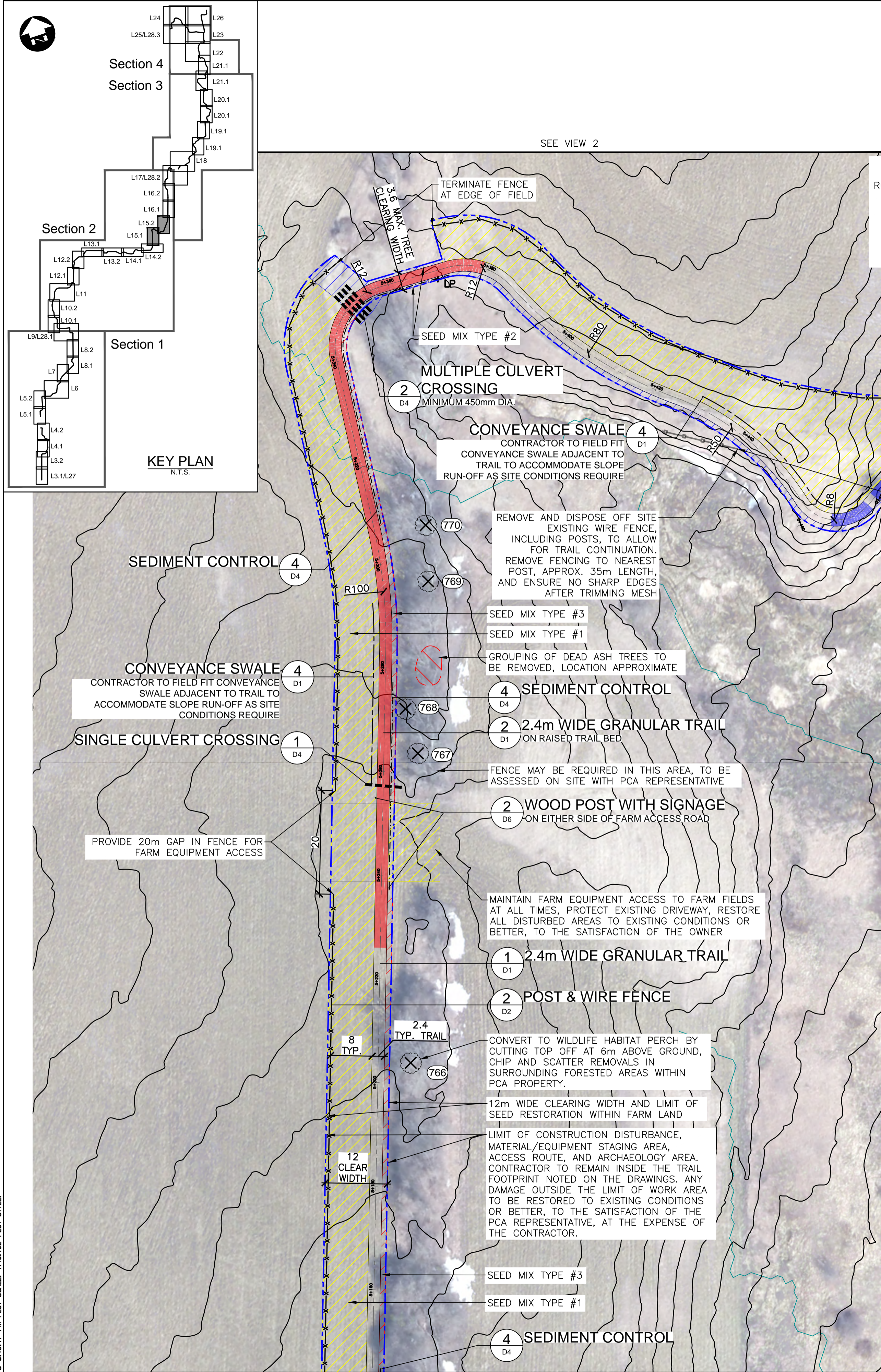
drawn by **LB** dessiné par

EN

scale	échelle	sheet	feuille
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project no.	19-1500	

date	date	14	OF	49
OCTOBER 2019				



Client  
PARKS CANADA  
ROUGE NATIONAL URBAN PARK

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant  
DILLON CONSULTING

Stamp  
ASSOCIATION OF LANDSCAPE ARCHITECTS  
LEIGHANN BRANNE  
2021.01.29

North

LEGEND

PARCEL BOUNDARY/ROW  
RNUP BOUNDARY  
LIMIT OF WORK  
TREE PROTECTION FENCING  
EX. HAZARD TREE TO BE REMOVED  
RETAIN & PROTECT EX. BUTTERNUTS  
INVASIVE SPECIES/DEBRIS REMOVAL  
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4 ISSUED FOR 90% SUBMISSION 2020.11.30

3 ISSUED FOR 60% SUBMISSION 2020.10.16

2 REVIEW SUBMISSION 2020.03.27

1 ISSUED FOR 30% SUBMISSION 2019.11.20

REVISIONS DESCRIPTION DATE

A detail number number du detail

B source drawing no. de dessin no.

C detail on drawing no. detail sur dessin no.

project title NORTH EAST TRAIL titre du projet

drawing title LAYOUT PLAN titre du dessin

designed by LB conçu par

drawn by LB dessiné par

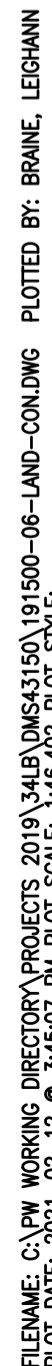
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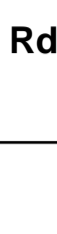



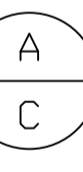
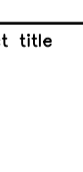


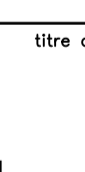
Parks Canada Project Manager Administrateur de Projets Parcs Canada

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project no. 19-1500 projet no. L15

date OCTOBER 2019 date

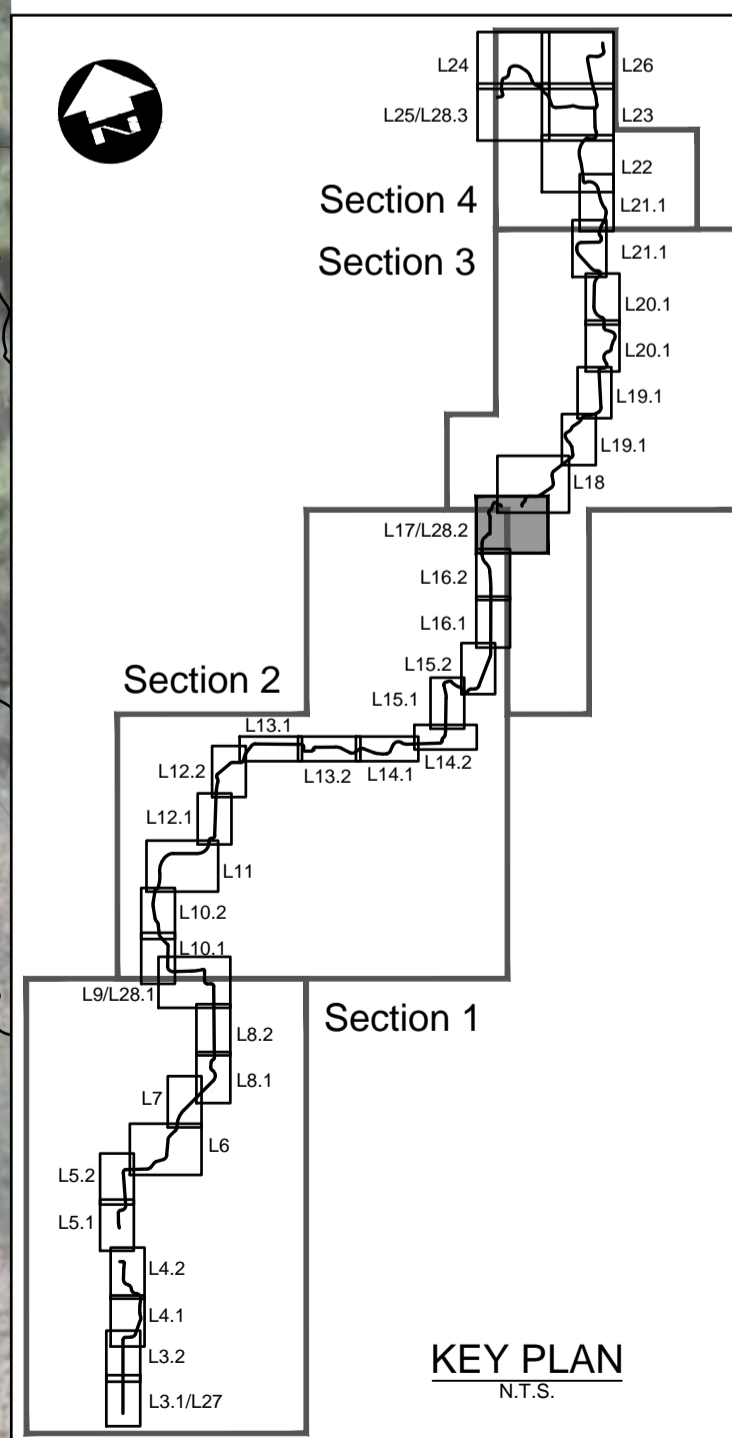
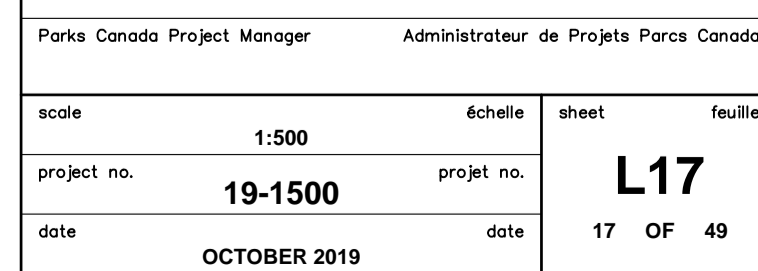


 <b>PARKS CANADA</b> <b>ROUGE NATIONAL URBAN PARK</b>		Client																																																																														
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left; padding: 5px;"><b>LEGEND</b></th> </tr> </thead> <tbody> <tr> <td style="width: 10%; text-align: center;">—</td> <td style="width: 80%;">PARCEL BOUNDARY/ROW</td> <td style="width: 10%;"></td> </tr> <tr> <td style="text-align: center;">---</td> <td>RNUP BOUNDARY</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>LIMIT OF WORK</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>TREE PROTECTION FENCING</td> <td></td> </tr> <tr> <td style="text-align: center;">(X) (X)</td> <td>EX. HAZARD TREE TO BE REMOVED</td> <td></td> </tr> <tr> <td style="text-align: center;">(P) (P)</td> <td>RETAIN &amp; PROTECT EX. BUTTERNUTS</td> <td></td> </tr> <tr> <td style="text-align: center;">(S) (S)</td> <td>INVASIVE SPECIES/DEBRIS REMOVAL</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>SEDIMENT CONTROL</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>CONVEYANCE SWALE</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>CULVERT CROSSING</td> <td></td> </tr> <tr> <td style="text-align: center;">—□—</td> <td>0.6m HT. STOCKPILE FENCING</td> <td></td> </tr> <tr> <td style="text-align: center;">— —</td> <td>1.2m HT. POST &amp; BOARD FENCE</td> <td></td> </tr> <tr> <td style="text-align: center;">—X—</td> <td>1.4m HT. POST &amp; WIRE FENCE</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>2.4m WIDE GRANULAR TRAIL</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>2.4m WIDE RAISED GRANULAR TRAIL</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>EXTRA RAISED GRANULAR TRAIL</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>2.4m WIDE BOARDWALK SECTIONS</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>WOOD CHIP SURFACE</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>STAIRCASE SECTIONS</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>GRADE DIPS ALONG TRAIL</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>ARMOURSTONE SEATING/BLOCKADE</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>OFFSET P-GATES</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>TRASH CANS (SUPPLIED BY PCA)</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>GRANULAR SEATING NODES</td> <td></td> </tr> <tr> <td style="text-align: center;">---</td> <td>GRANULAR PARKING SURFACE</td> <td></td> </tr> </tbody> </table>			<b>LEGEND</b>			—	PARCEL BOUNDARY/ROW		---	RNUP BOUNDARY		---	LIMIT OF WORK		---	TREE PROTECTION FENCING		(X) (X)	EX. HAZARD TREE TO BE REMOVED		(P) (P)	RETAIN & PROTECT EX. BUTTERNUTS		(S) (S)	INVASIVE SPECIES/DEBRIS REMOVAL		---	SEDIMENT CONTROL		---	CONVEYANCE SWALE		---	CULVERT CROSSING		—□—	0.6m HT. STOCKPILE FENCING		— —	1.2m HT. POST & BOARD FENCE		—X—	1.4m HT. POST & WIRE FENCE		---	2.4m WIDE GRANULAR TRAIL		---	2.4m WIDE RAISED GRANULAR TRAIL		---	EXTRA RAISED GRANULAR TRAIL		---	2.4m WIDE BOARDWALK SECTIONS		---	WOOD CHIP SURFACE		---	STAIRCASE SECTIONS		---	GRADE DIPS ALONG TRAIL		---	ARMOURSTONE SEATING/BLOCKADE		---	OFFSET P-GATES		---	TRASH CANS (SUPPLIED BY PCA)		---	GRANULAR SEATING NODES		---	GRANULAR PARKING SURFACE	
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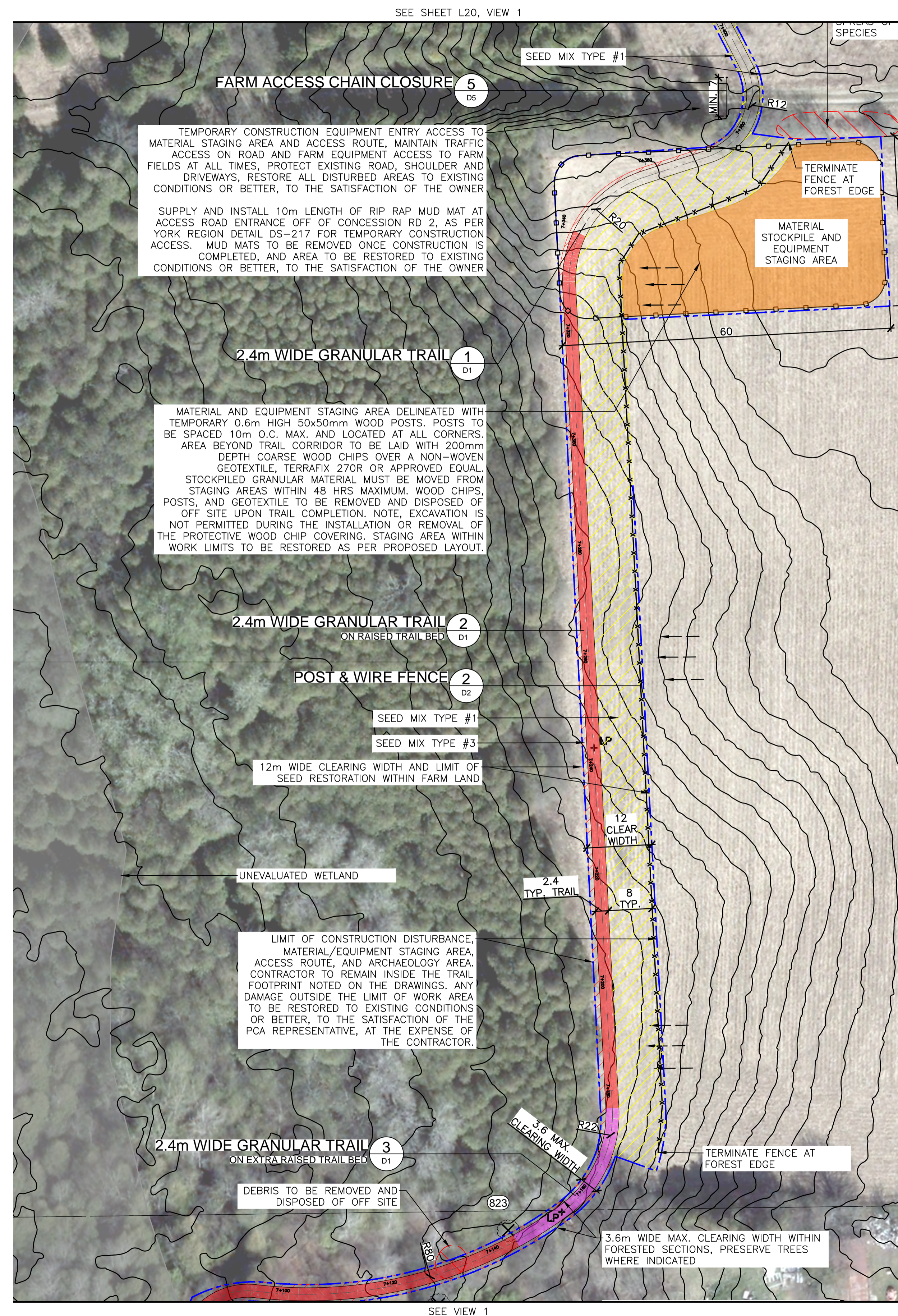
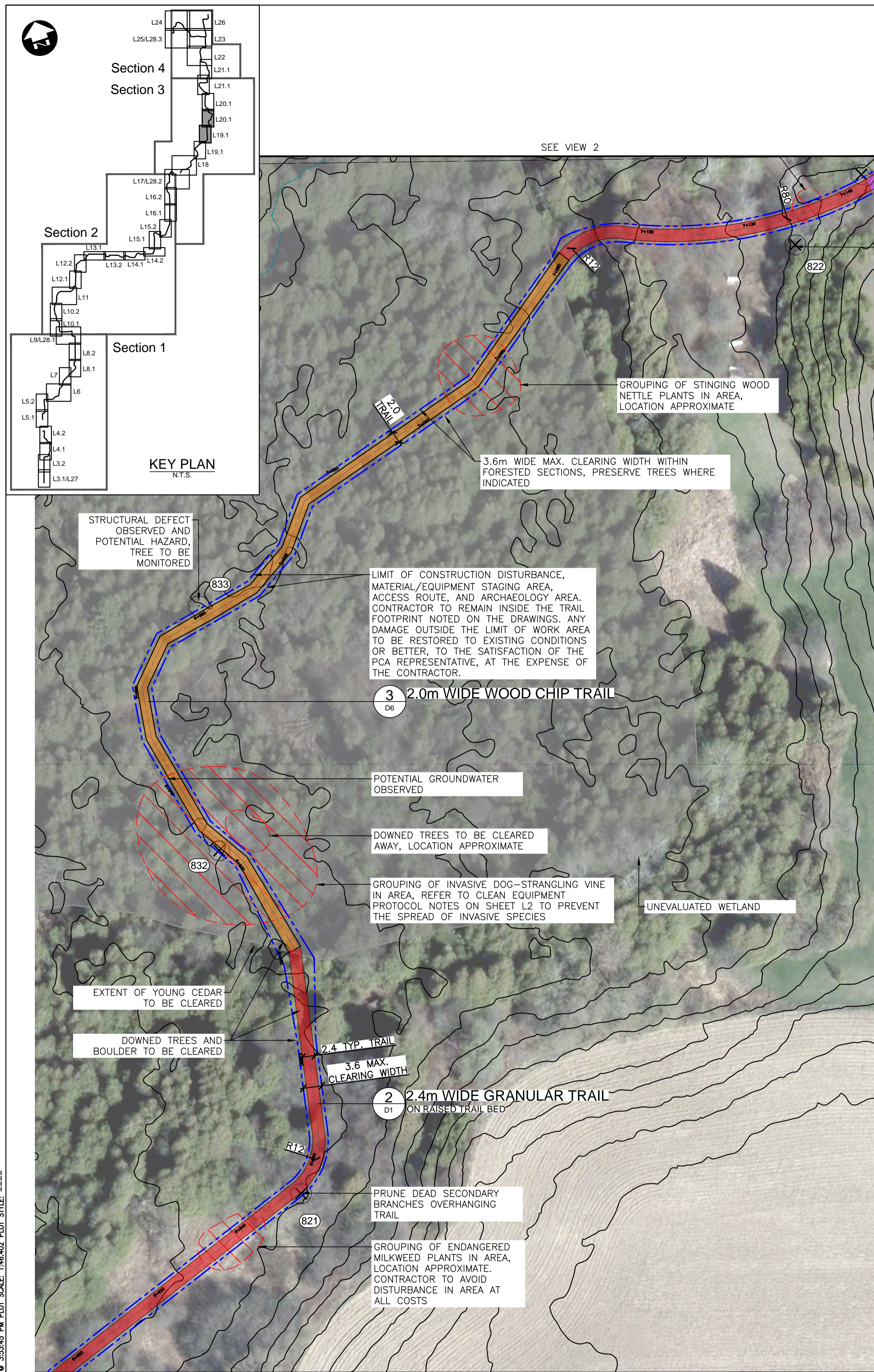
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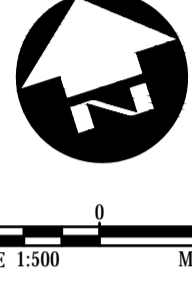

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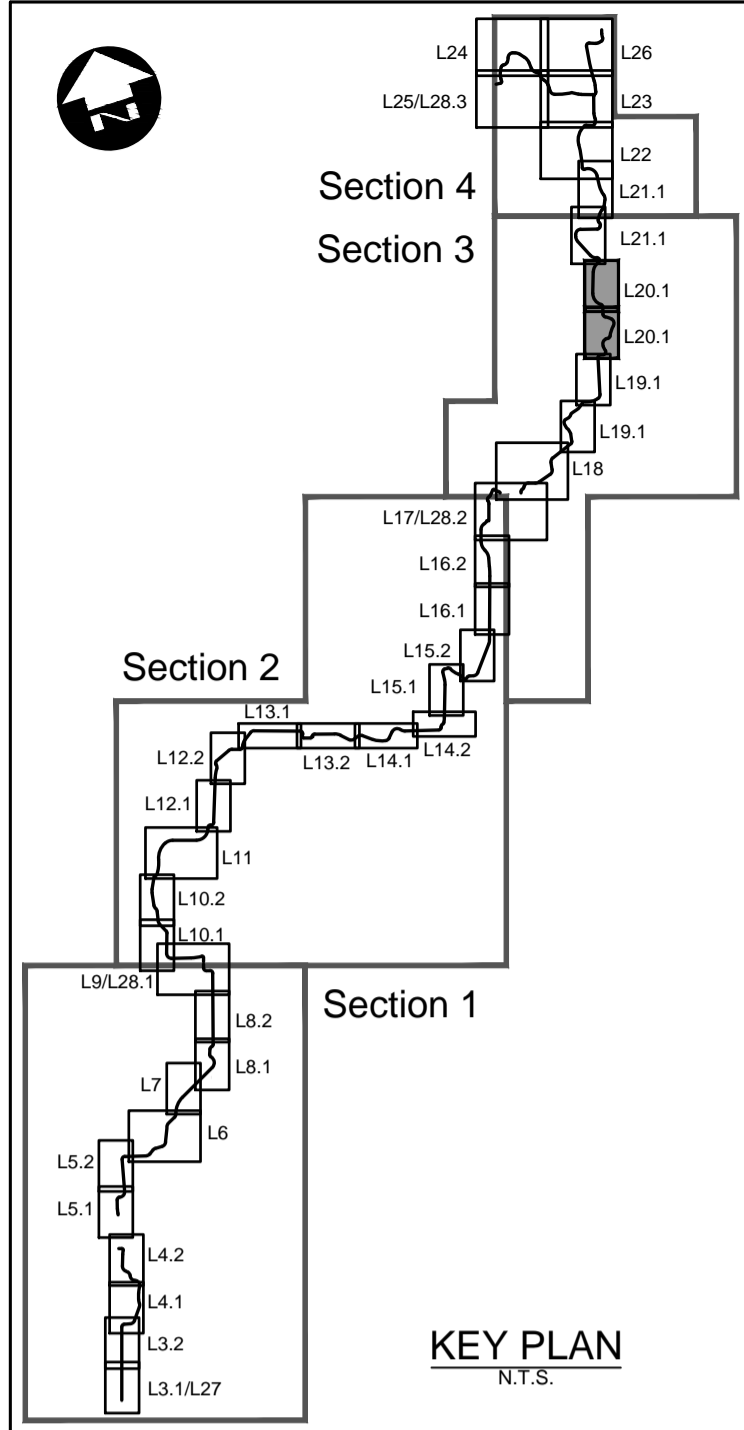




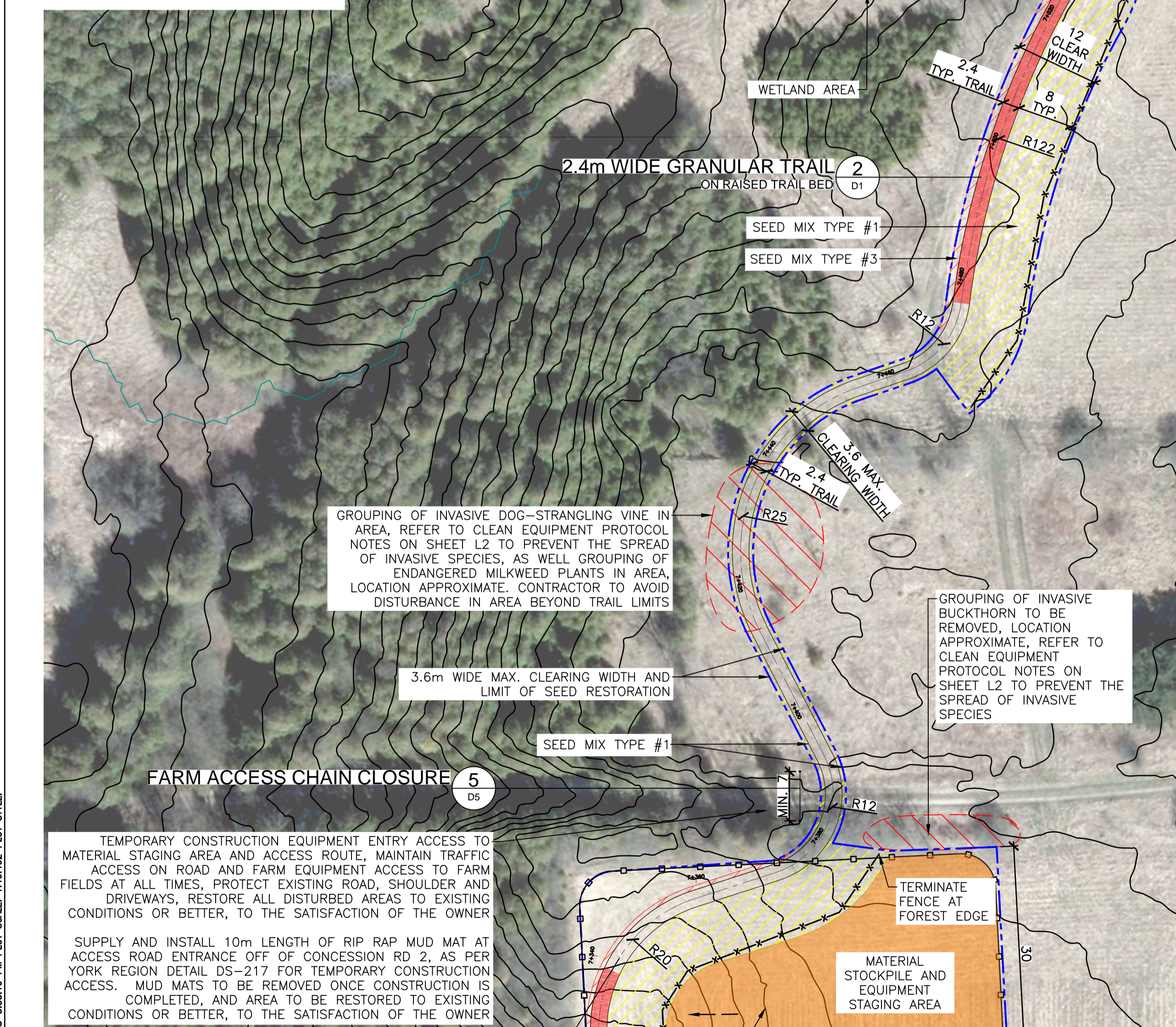
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Client		Client
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10725 Reesor Rd, Markham, ON L6B 1A8		
Consultant		Consultant
<div> DILLON CONSULTING</div>		
Stamp		North
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project no.	19-1500	projet no.
date	OCTOBER 2019	date
sheet	L18	feuille
	18	OF 49



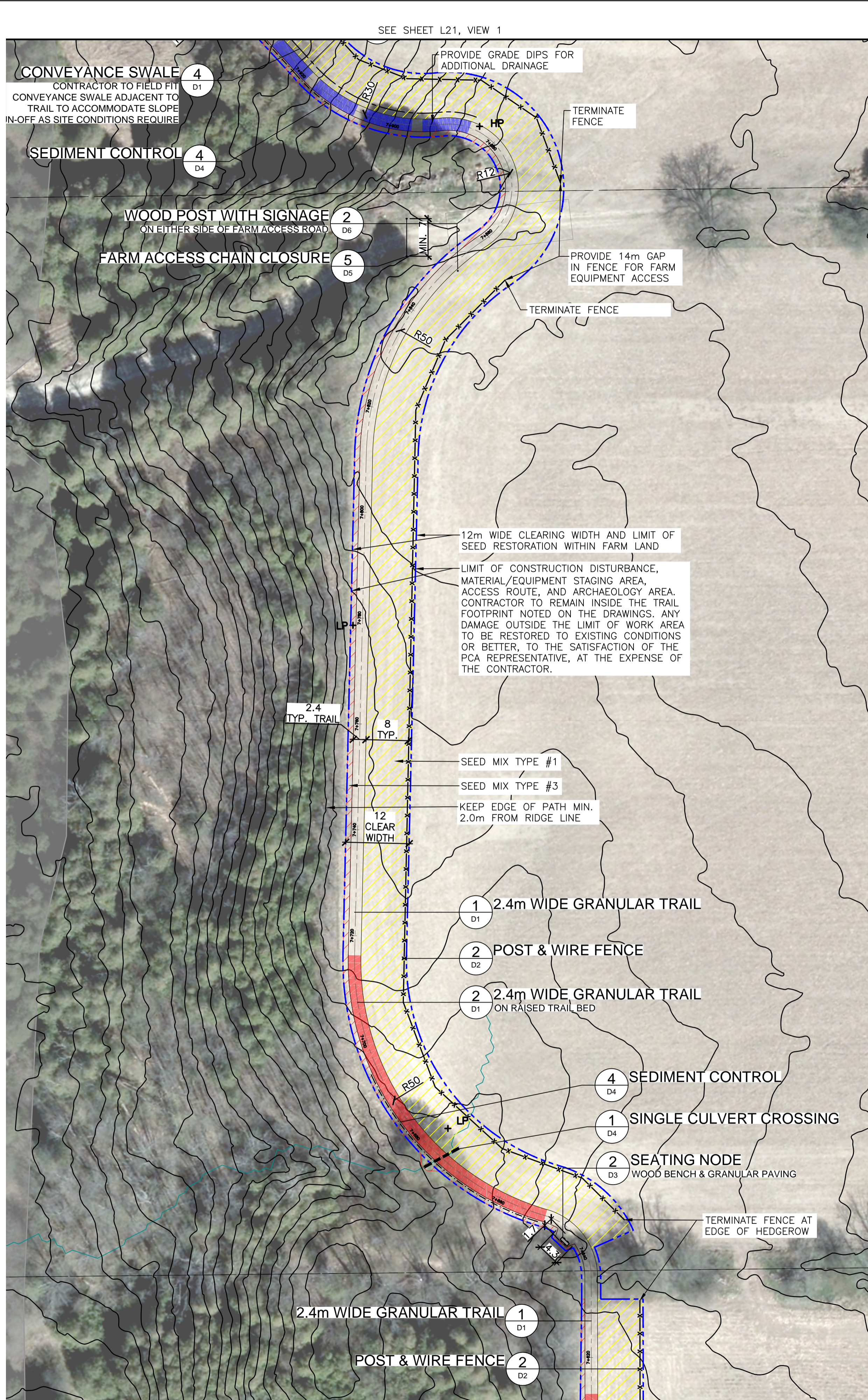
																																																							
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- SEED MIX TYPE #1 (BOBOLINK & MEADOWLARK SEED MIX)
  - SEED MIX TYPE #2 (STREAM CHANNEL & WETLAND EDGE MIX)
  - SEED MIX TYPE #3 (SEMI-SHADE FOREST EDGE SEED MIX)



**1 VIEW 1: TRAIL ALIGNMENT**  
1:500



**2 VIEW 2: TRAIL ALIGNMENT**  
1:500

Parks Canada

Client

**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant

**DILLON**  
CONSULTING

Stamp

North

10 0 10  
SCALE 1:500 METRES

**LEGEND**

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- LIMIT OF WORK
- TREE PROTECTION FENCING
- EX. HAZARD TREE TO BE REMOVED
- RETAIN & PROTECT EX. BUTTERNUTS
- INVASIVE SPECIES/DEBRIS REMOVAL
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REVISIONS	DESCRIPTION	DATE
A	detail number number du detail	A
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C	detail on drawing no. detail sur dessin no.	

project title  
**NORTH EAST TRAIL**  
titre du projet

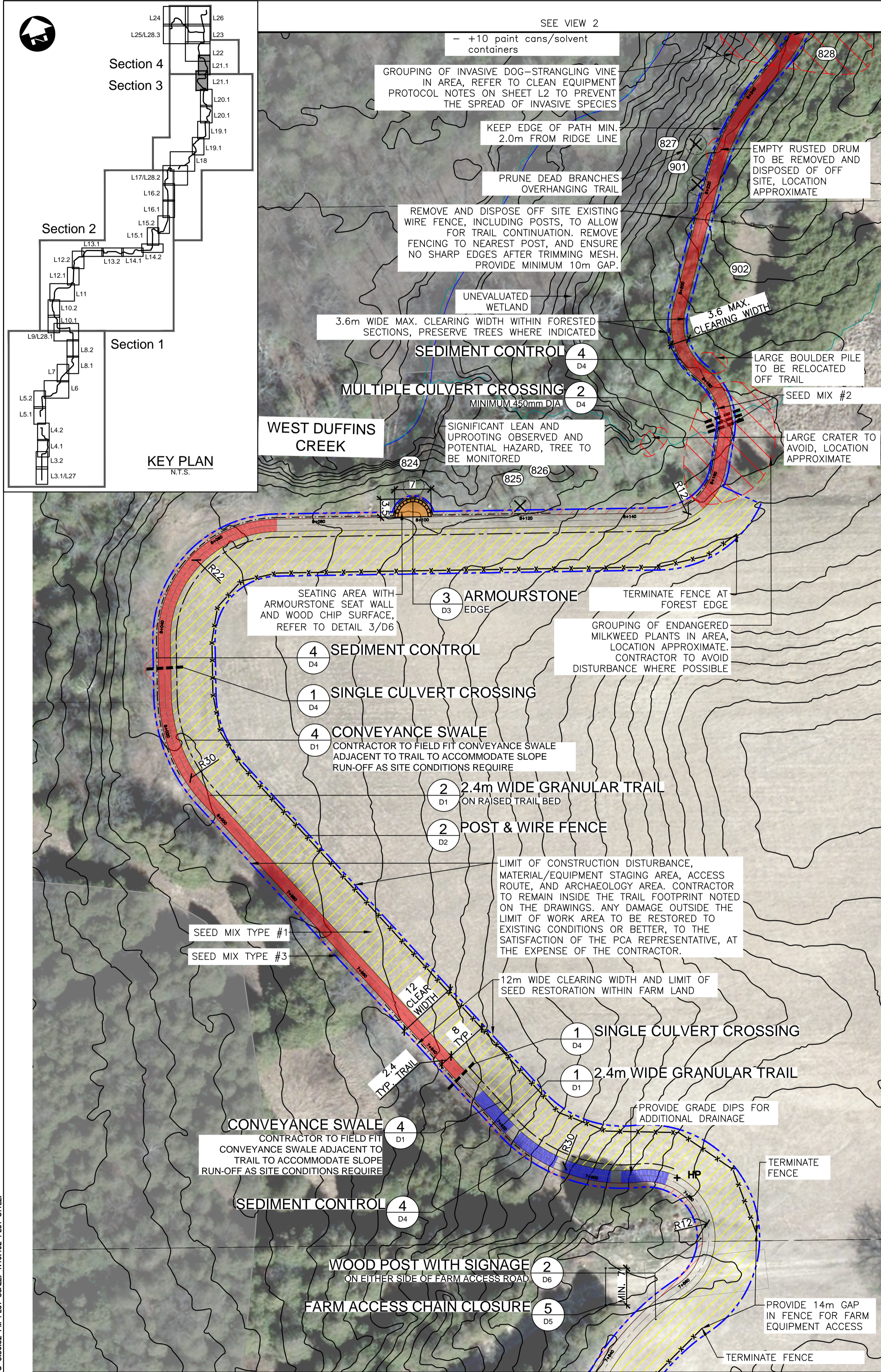
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**LB**  
conçu par

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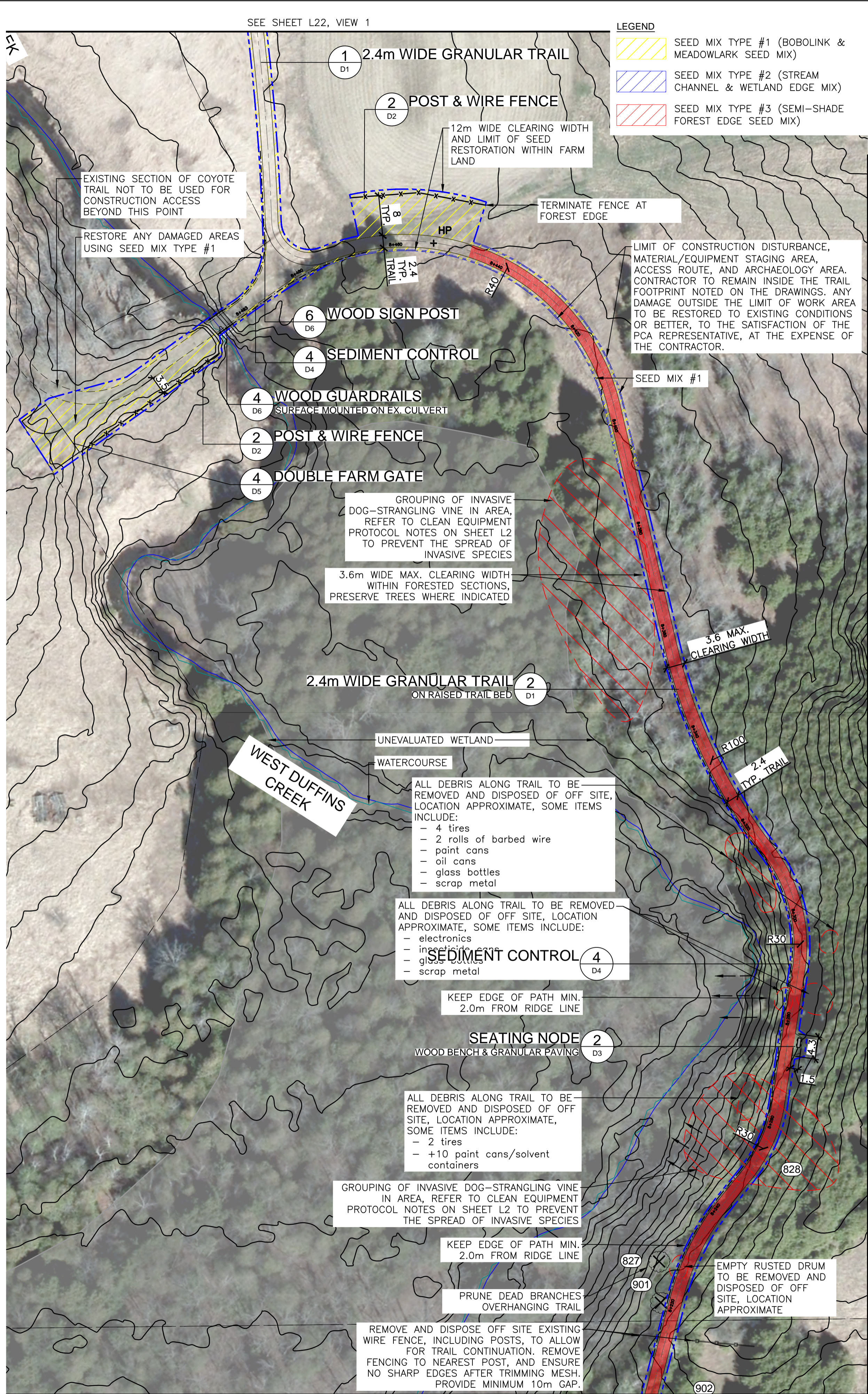
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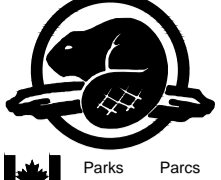
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project no. <b>19-1500</b>	projet no.	date <b>OCTOBER 2019</b>	



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1:500



2 VIEW 2: TRAIL ALIGNMENT  
1:500

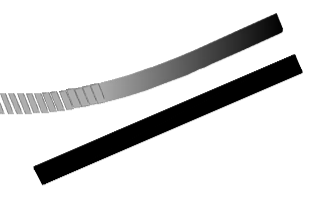


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**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8


Consultant



Stamp



North



10 0 10  
SCALE 1:500 METRES

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project title  
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titre du projet

drawing title  
**LAYOUT PLAN**  
titre du dessin

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**LB**  
conçu par

drawn by  
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échelle

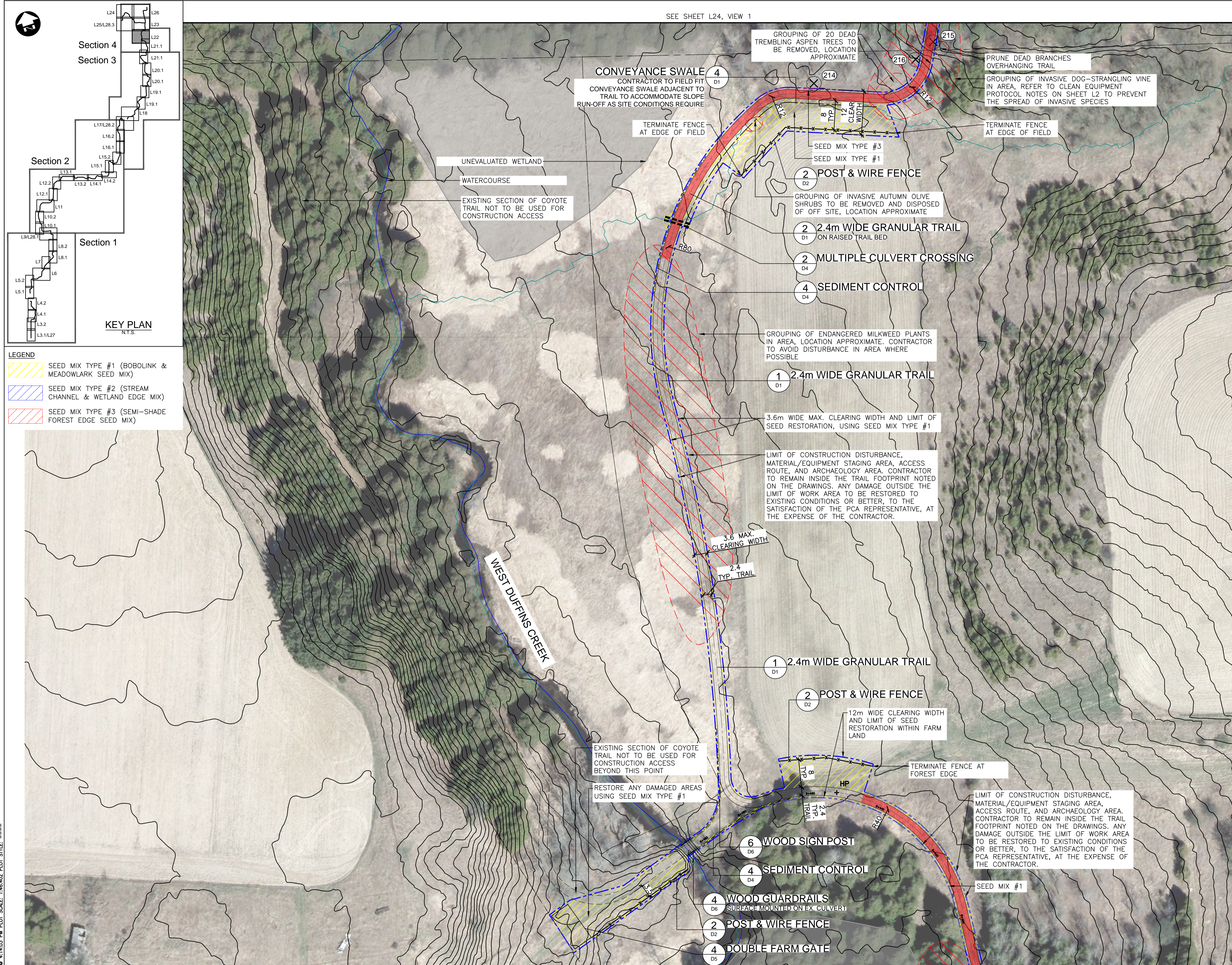
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**L21**  
feuille

project no.  
**19-1500**  
proj. no.

date  
**OCTOBER 2019**  
date

21 OF 49

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PLOT DATE: 2021-02-12 4:14:35 PM PLOT SCALE: 1:46,402 PLOT STYLE: -----



1 VIEW 1: TRAIL ALIGNMENT  
1:500

SEE SHEET L21, VIEW 2

Client

**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant

Stamp

North

**LEGEND**

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- LIMIT OF WORK
- TREE PROTECTION FENCING
- EX. HAZARD TREE TO BE REMOVED
- RETAIN & PROTECT EX. BUTTERNUTS
- INVASIVE SPECIES/DEBRIS REMOVAL
- SEDIMENT CONTROL
- CONVEYANCE SWALE
- CULVERT CROSSING
- 0.6m HT. STOCKPILE FENCING
- 1.2m HT. POST & BOARD FENCE
- 1.4m HT. POST & WIRE FENCE
- 2.4m WIDE GRANULAR TRAIL
- 2.4m WIDE RAISED GRANULAR TRAIL
- EXTRA RAISED GRANULAR TRAIL
- 2.4m WIDE BOARDWALK SECTIONS
- WOOD CHIP SURFACE
- STAIRCASE SECTIONS
- GRADE DIPS ALONG TRAIL
- ARMOURSTONE SEATING/BLOCKADE
- OFFSET P-GATES
- TRASH CANS (SUPPLIED BY PCA)
- GRANULAR SEATING NODES
- GRANULAR PARKING SURFACE

5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
3	ISSUED FOR 60% SUBMISSION	2020.10.16
2	REVIEW SUBMISSION	2020.03.27
1	ISSUED FOR 30% SUBMISSION	2019.11.20

REVISIONS	DESCRIPTION	DATE
A	detail number number du detail	A
B	source drawing no. de dessin no.	B C
C	detail on drawing no. detail sur dessin no.	

project title

**NORTH EAST TRAIL**

drawing title

**LAYOUT PLAN**

designed by

LB

conçu par

drawn by

LB

dessiné par

approved by

EN

approuvé par

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

scale

1:500

échelle

sheet

feuille

project no.

19-1500

projet no.

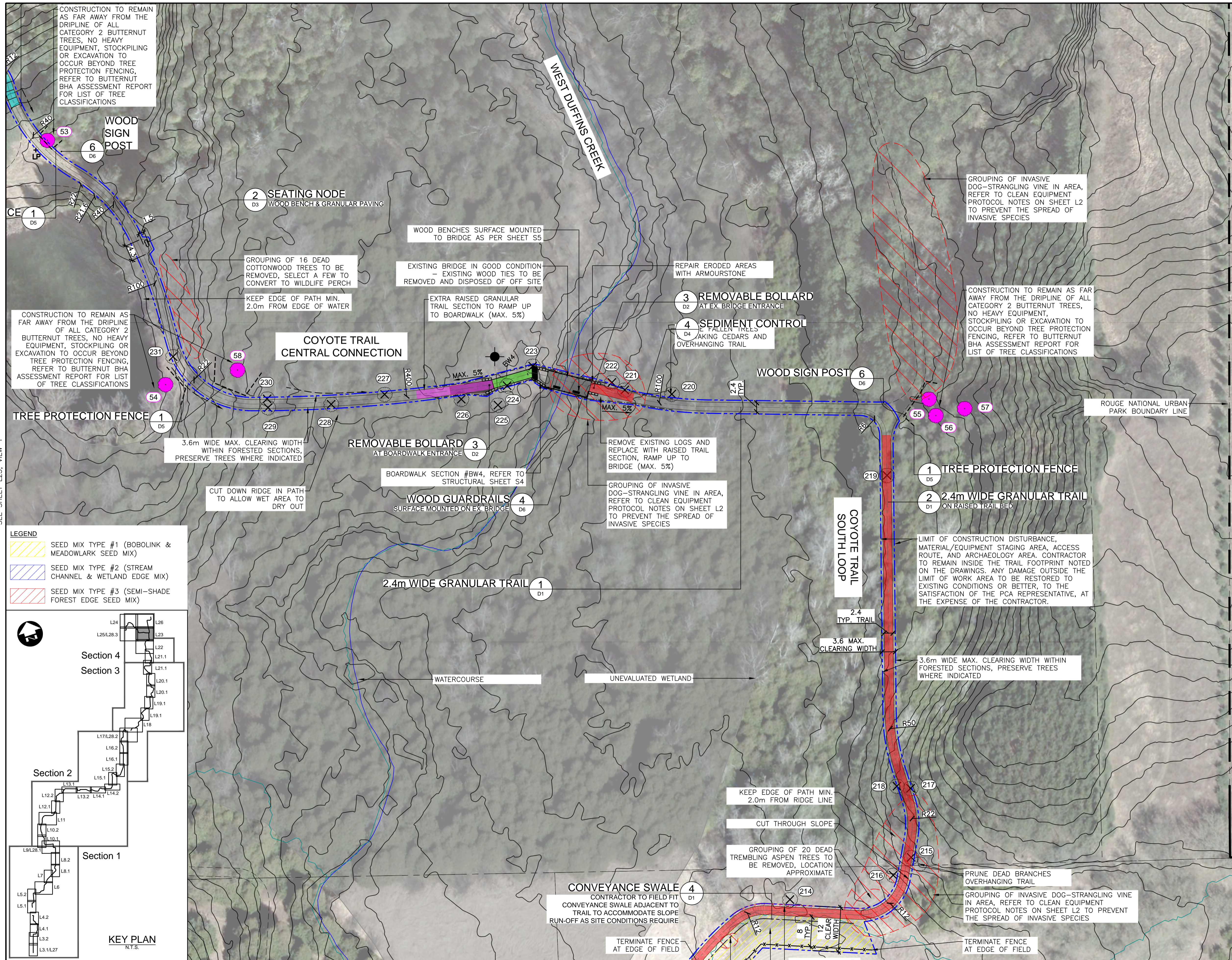
**L22**

date

OCTOBER 2019

date

22 OF 49



**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Client

Client

**DILLON CONSULTING**

Consultant

Consultant

Stamp

North

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SCALE 1:500 METRES

**LEGEND**

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- LIMIT OF WORK
- TREE PROTECTION FENCING
- EX. HAZARD TREE TO BE REMOVED
- RETAIN & PROTECT EX. BUTTERNUTS
- INVASIVE SPECIES/DEBRIS REMOVAL
- SEDIMENT CONTROL
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- 0.6m HT. STOCKPILE FENCING
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- 2.4m WIDE RAISED GRANULAR TRAIL
- EXTRA RAISED GRANULAR TRAIL
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- GRANULAR PARKING SURFACE

REVISIONS	DESCRIPTION	DATE
5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
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1	ISSUED FOR 30% SUBMISSION	2019.11.20

A detail number  
number du detail

B source drawing no.  
de dessin no.

C detail on drawing no.  
detail sur dessin no.

A

B

C

project title      titre du projet

**NORTH EAST TRAIL**

drawing title      titre du dessin

**LAYOUT PLAN**

designed by      LB      conçu par

drawn by      LB      dessiné par

approved by      EN      approuvé par

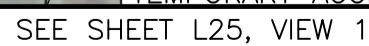
Parks Canada Project Manager      Administrateur de Projets Parcs Canada

scale      1:500      échelle


project no.      19-1500      projet no.

date      OCTOBER 2019      date

**L23**  
23 OF 49

[illegible]





**Parks Canada**

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Client

# PARKS CANADA


## ROUGE NATIONAL URBAN PARK

Client

### 10725 Reesor Rd, Markham, ON L6B 1A8

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Consultant




**DILLON**  
CONSULTING

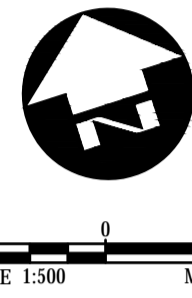
Consultant

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Stamp



North



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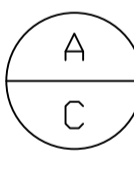
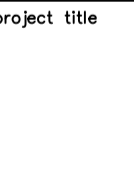
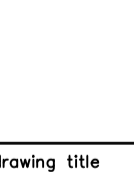
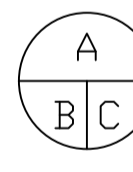
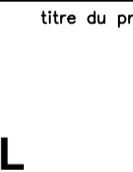
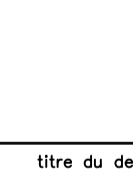
**LEGEND**

	PARCEL BOUNDARY/ROW
	RNP BOUNDARY
	LIMIT OF WORK
	TREE PROTECTION FENCING
	EX. HAZARD TREE TO BE REMOVED
	RETAIN & PROTECT EX. BUTTERNUTS
	INVASIVE SPECIES/DEBRIS REMOVAL
	SEDIMENT CONTROL
	CONVEYANCE SWALE
	CULVERT CROSSING
	0.6m HT. STOCKPILE FENCING
	1.2m HT. POST & BOARD FENCE
	1.4m HT. POST & WIRE FENCE
	2.4m WIDE GRANULAR TRAIL
	2.4m WIDE RAISED GRANULAR TRAIL
	EXTRA RAISED GRANULAR TRAIL
	2.4m WIDE BOARDWALK SECTIONS
	WOOD CHIP SURFACE
	STAIRCASE SECTIONS
	GRADE DIPS ALONG TRAIL
	ARMOURSTONE SEATING/BLOCKADE
	OFFSET P-GATES
	TRASH CANS (SUPPLIED BY PCA)
	GRANULAR SEATING NODES
	GRANULAR PARKING SURFACE

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5	ISSUED FOR TENDER	2021.01.21
4	ISSUED FOR 90% SUBMISSION	2020.11.30
3	ISSUED FOR 60% SUBMISSION	2020.10.14
2	REVIEW SUBMISSION	2020.03.21
1	ISSUED FOR 30% SUBMISSION	2019.11.20

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REVISIONS	DESCRIPTION	DATE
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project title

## NORTH EAST TRAIL

titre du projet

---

## LAYOUT PLAN

---

designed by

**LB**

conçu par

---

drawn by

**LB**

dessiné par

---

approved by

**EN**

approuvé par

---

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

---

scale

**1:500**

project no.

**19-1500**

date

OCTOBER 2019

échelle

project no.

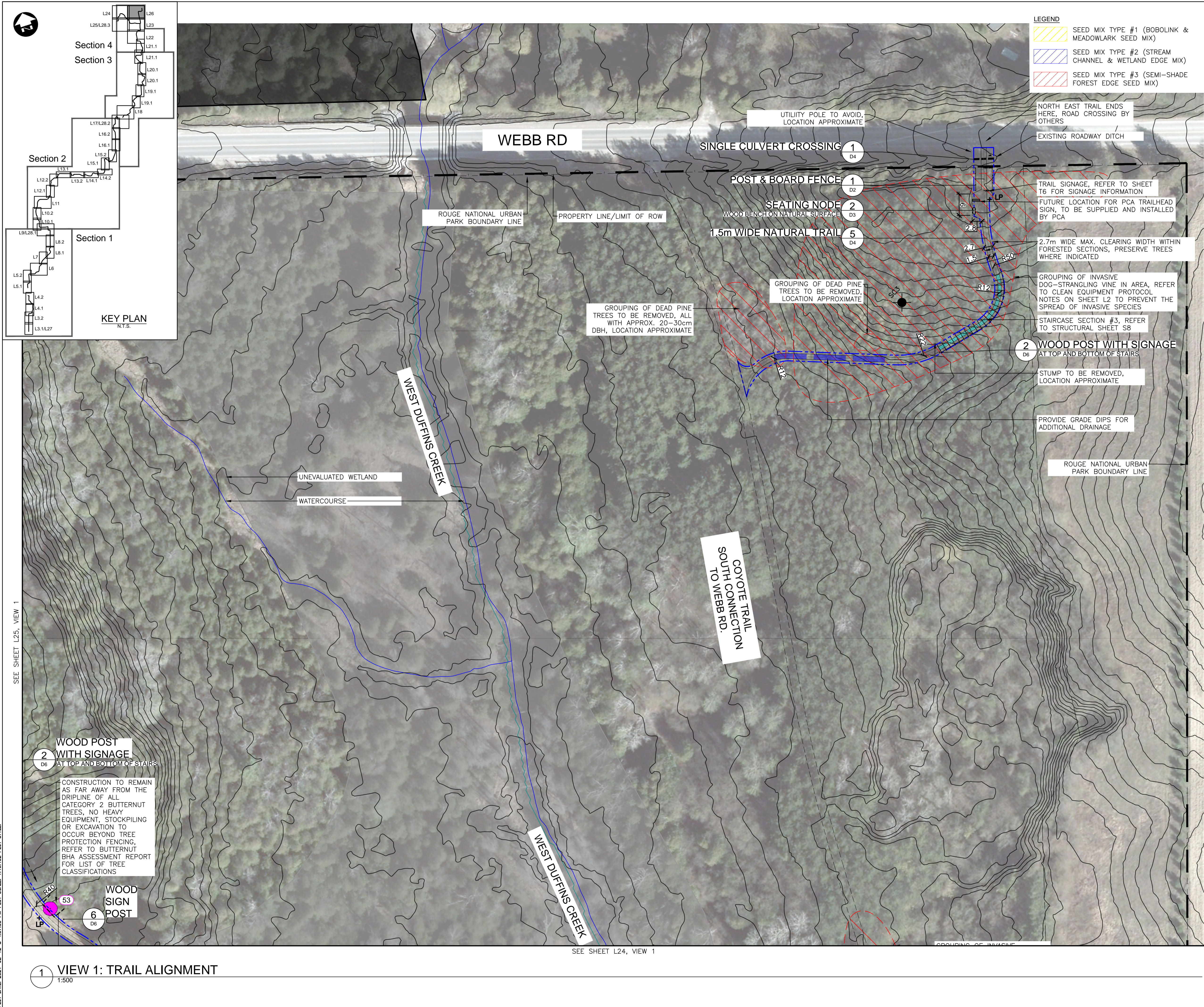
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sheet

**L25**

25 OF 49

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Client

**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant

Stamp

North

SCALE 1:500 METRES

**LEGEND**

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- LIMIT OF WORK
- TREE PROTECTION FENCING
- EX. HAZARD TREE TO BE REMOVED
- RETAIN & PROTECT EX. BUTTERNUTS
- INVASIVE SPECIES/DEBRIS REMOVAL
- SEDIMENT CONTROL
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- 2.4m WIDE RAISED GRANULAR TRAIL
- EXTRA RAISED GRANULAR TRAIL
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- WOOD CHIP SURFACE
- STAIRCASE SECTIONS
- GRADE DIPS ALONG TRAIL
- ARMOURSTONE SEATING/BLOCKADE
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5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
3	ISSUED FOR 60% SUBMISSION	2020.10.16
2	REVIEW SUBMISSION	2020.03.27
1	ISSUED FOR 30% SUBMISSION	2019.11.20

REVISIONS	DESCRIPTION	DATE
A	detail number	
B	source drawing no.	
C	detail on drawing no.	

A

C

A

B

C

project title

**NORTH EAST TRAIL**

drawing title

**LAYOUT PLAN**

designed by

LB

conçu par

drawn by

LB

dessiné par

approved by

EN

approuvé par

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

scale

1:500

échelle

sheet

L26

feuille

project no.

19-1500

projet no.

date

OCTOBER 2019

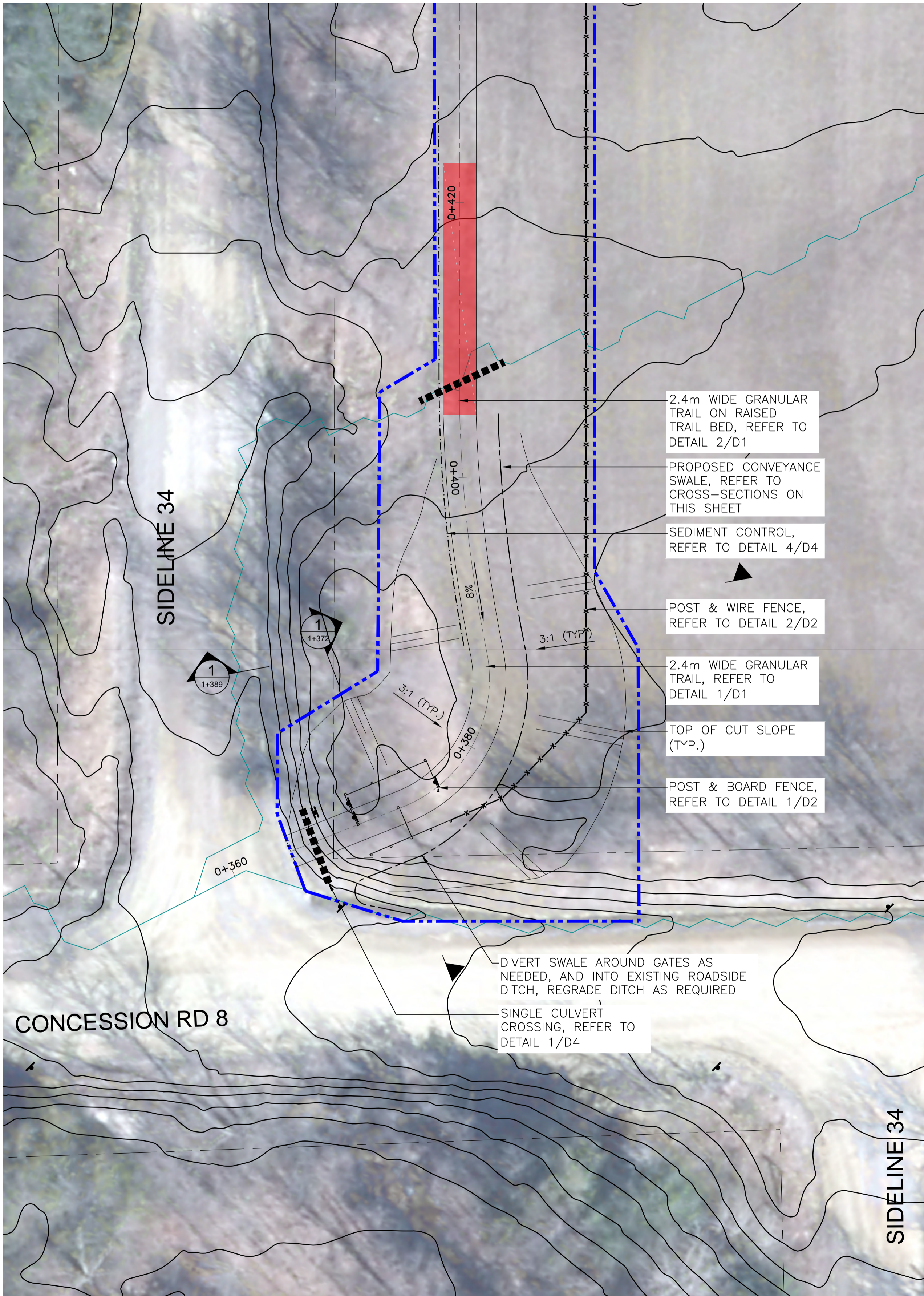
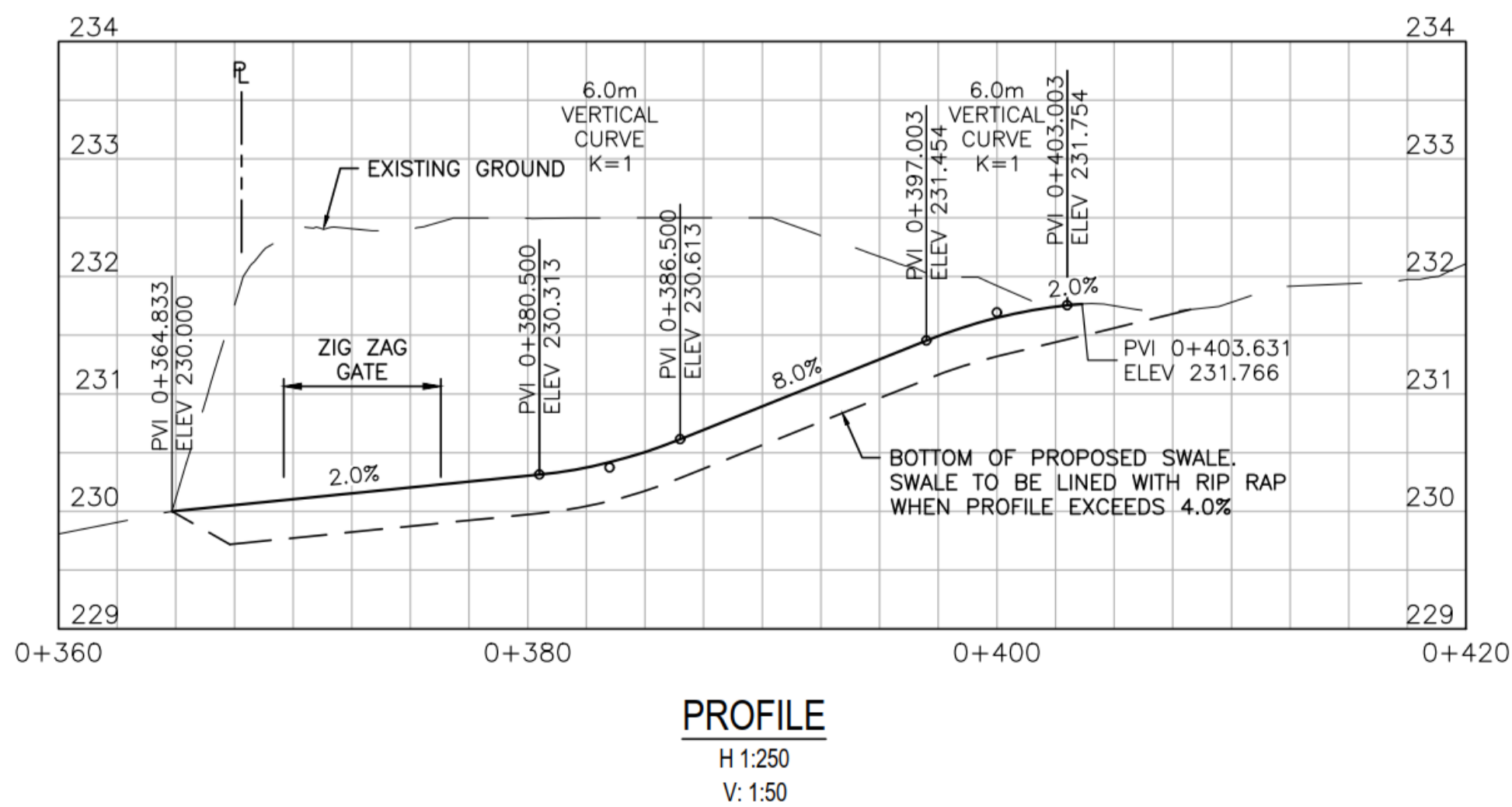
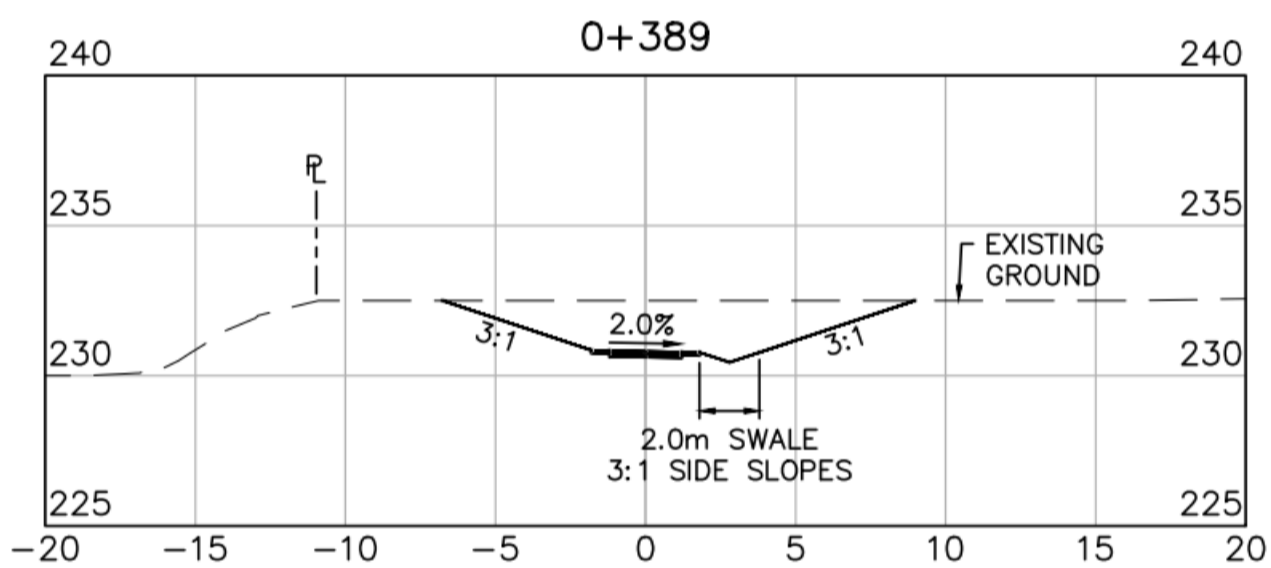
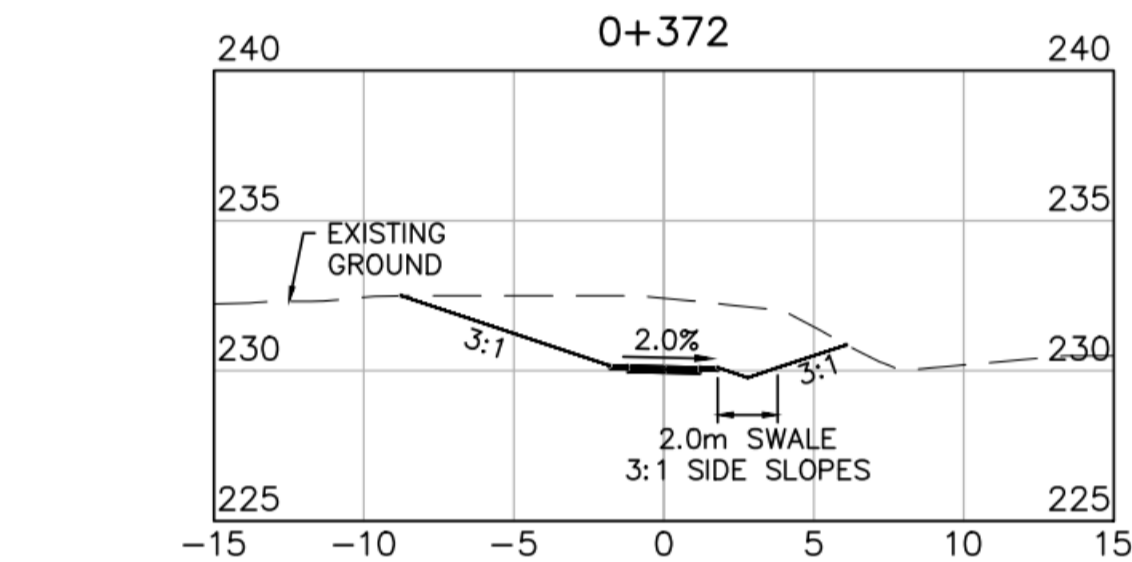
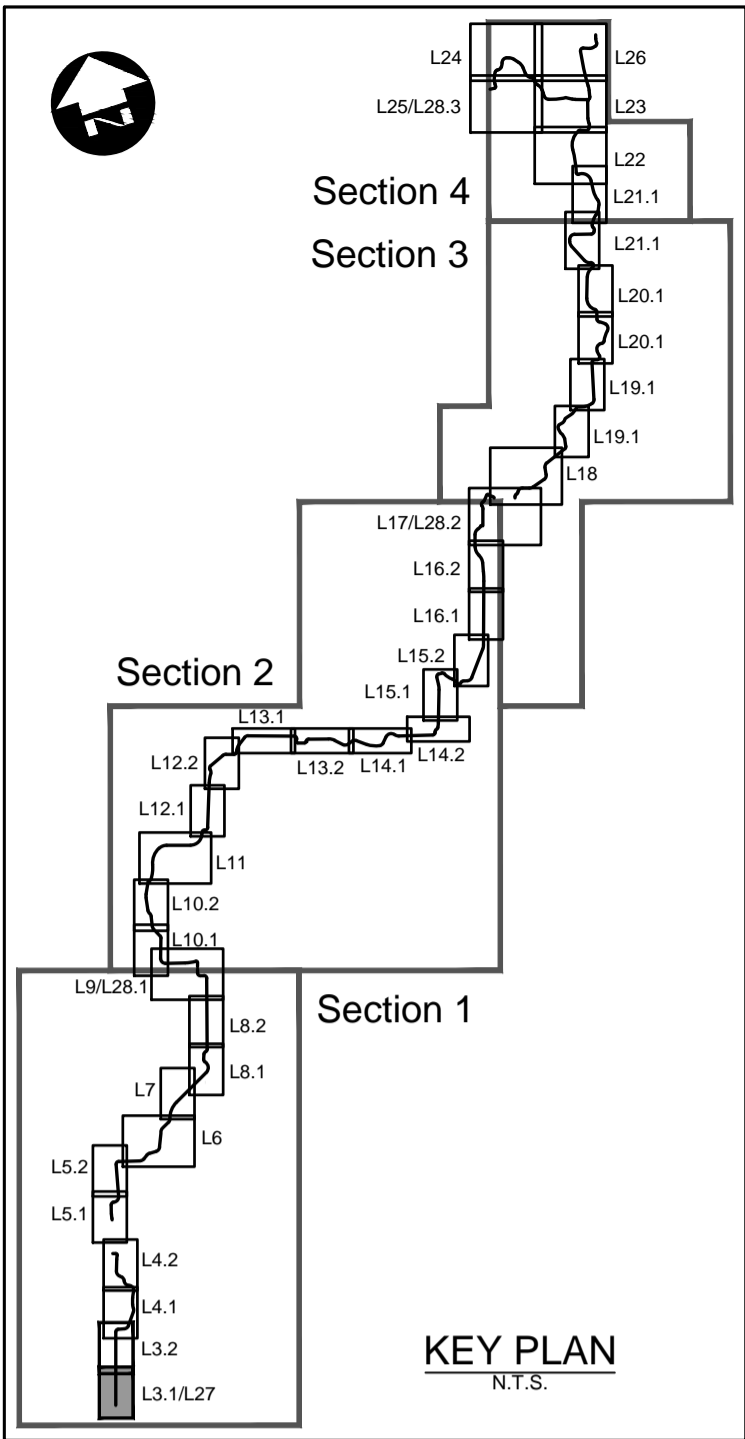
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OF

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1 TRAIL HEAD ENLARGEMENT  
1:200



Client  
**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant  
  
**DILLON**  
CONSULTING

Stamp  
  
SCALE 1:200  
METRES

North  


REVISIONS	DESCRIPTION	DATE
5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
3	ISSUED FOR 60% SUBMISSION	2020.10.16
2	REVIEW SUBMISSION	2020.03.27
1	ISSUED FOR 30% SUBMISSION	2019.11.20

A

C

A detail number  
number du detail

B

B source drawing no.  
de dessin no.

C

C detail on drawing no.  
detail sur dessin no.

project title  
**NORTH EAST TRAIL**  
titre du projet

drawing title  
**ENLARGEMENT PLAN**  
**TRAIL HEAD GRADING**  
titre du dessin

designed by  
LB  
conçu par

drawn by  
LB  
dessiné par

approved by  
EN  
approuvé par

Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

scale  
1:200  
échelle

project no.  
19-1500  
projet no.

date  
OCTOBER 2019  
date

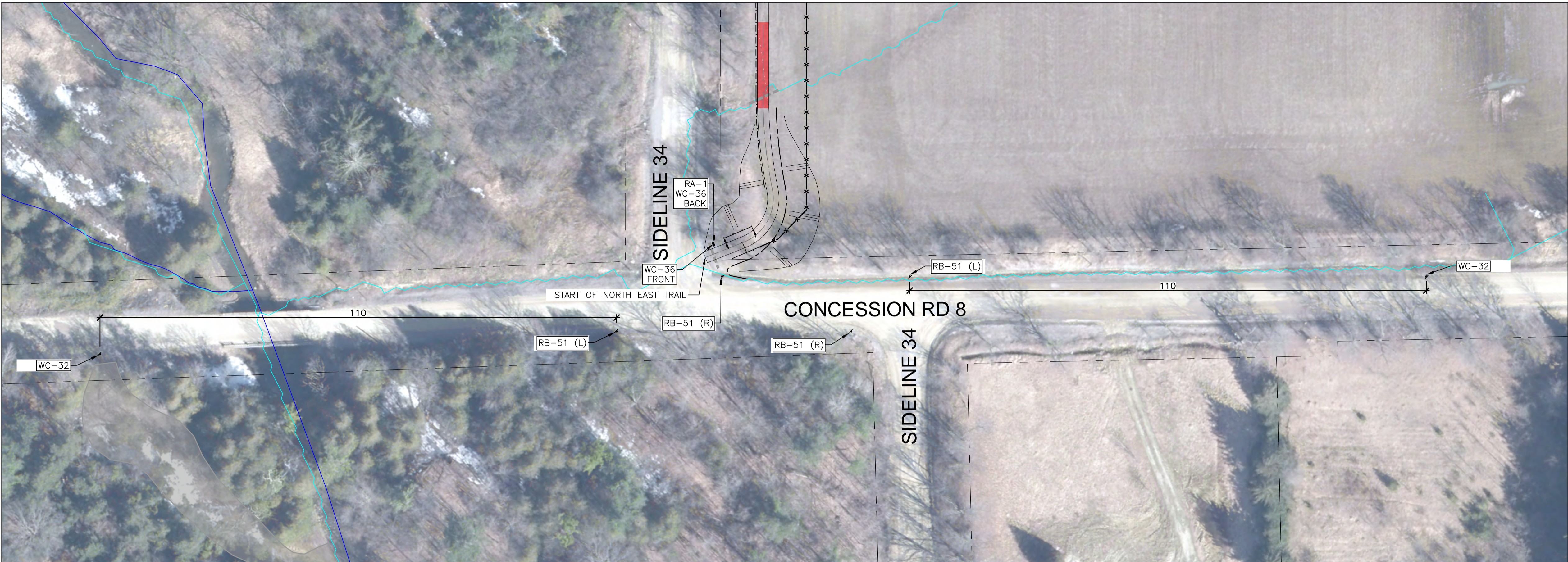
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27  
feuille

OF 49

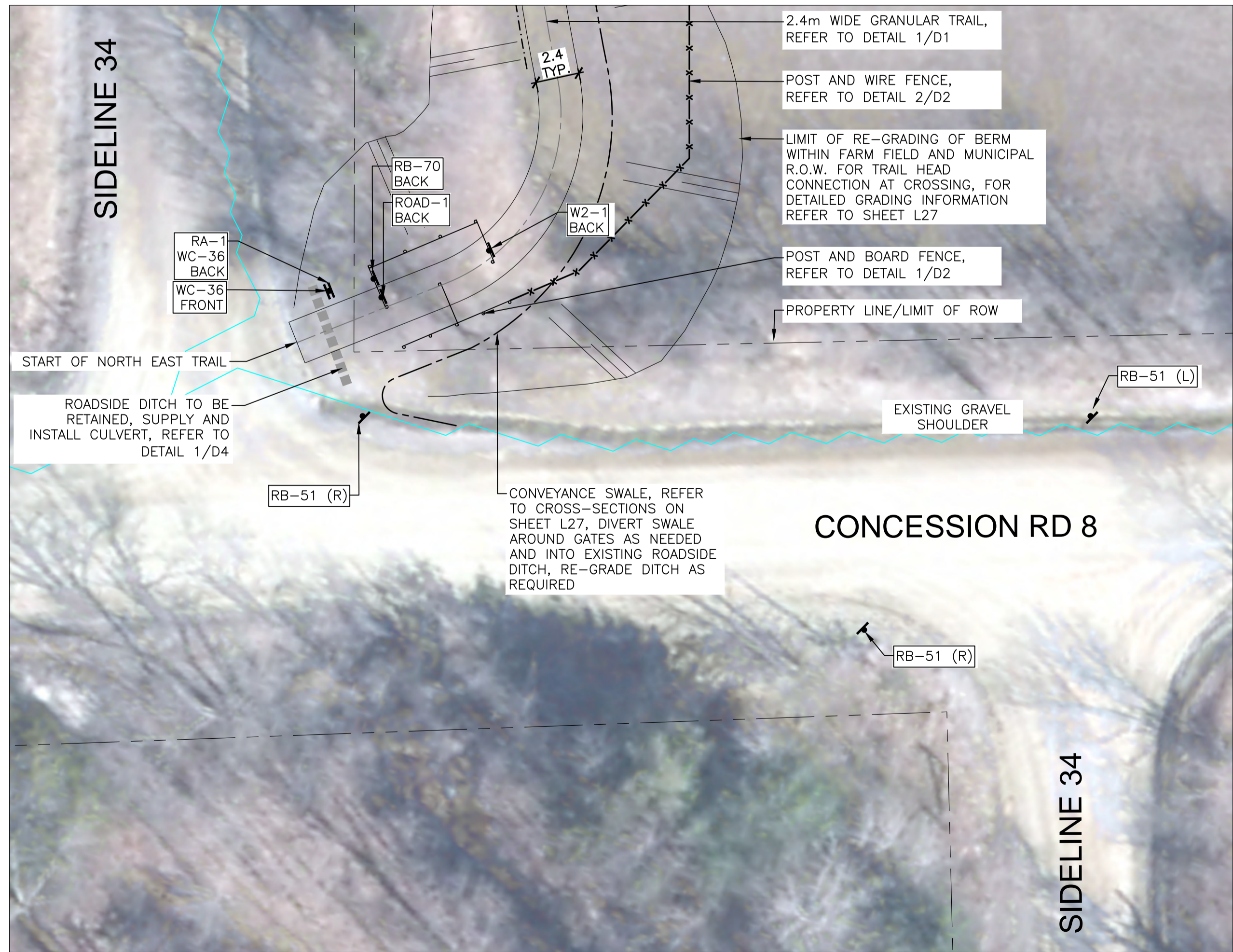
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1 SIDELINE 34 TRAIL - ROADWAY SIGNAGE  
1:500



2 SIDELINE 34 TRAIL - PEDESTRIAN SIGNAGE  
1:200

ROADWAY SIGNAGE SCHEDULE			
KEY	SYMBOL	DESCRIPTION	QTY
RB-51 (L) 600x600mm		NO PARKING	2
RB-51 (R) 600x600mm		NO PARKING	2
WC-36 800x300mm		PEDESTRIANS YIELD TO TRAFFIC (EN)	2
		PIÉTONS CÉDEZ LE PASSAGE (FR)	2
WC-32 750x750mm		TRAIL CROSSING	2

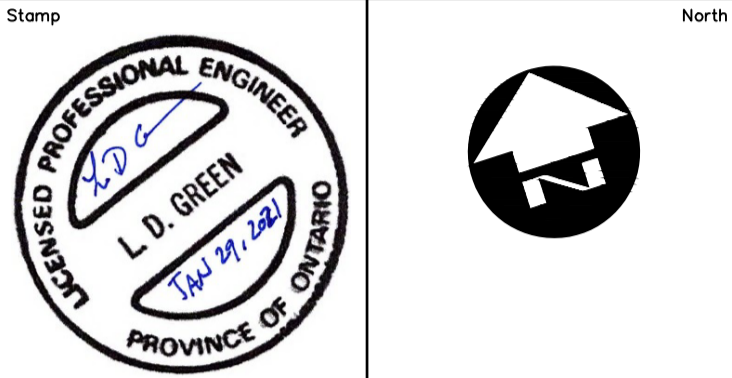
PEDESTRIAN SIGNAGE SCHEDULE			
KEY	SYMBOL	DESCRIPTION	QTY
RA-1 300x300mm		STOP SIGN	1
RB-70 300x300mm		DISMOUNT BICYCLE AND WALK	1
W2-1 300x300mm		ROAD CROSSING AHEAD	1
ROAD-1 1150x150mm		UNIQUE BASED ON LOCATION	1

- NOTE:
1. ALL DIMENSIONS ARE IN m UNLESS SPECIFIED OTHERWISE
  2. ALL SIGNAGE TO CONFORM TO ONTARIO TRAFFIC MANUAL AND CITY OF PICKERING STANDARDS
  3. ENSURE SIGNS ARE LOCATED BETWEEN 2-4m FROM THE OUTSIDE EDGE OF THE OUTER TRAFFIC LANE, AND 1.5-2.5m ABOVE THE EDGE OF TRAFFIC LANE, AS PER OTM BOOK 1B.
  4. ALL SIGNS OUTSIDE OF ROAD RIGHT-OF-WAY TO BE BILINGUAL
  5. ALL SIGNAGE TO BE ON ALUMINUM SIGNBOARDS USING TYPE 1 (ENGINEERING GRADE) RETROREFLECTIVE SHEETING, PER ASTM SPECIFICATION D 4956-90
  6. ALL ROADWAY SIGNS TO BE MOUNTED AS PER OPSD 989.110
  7. ALL PEDESTRIAN SIGNS TO BE MOUNTED AS PER DETAIL 1/D6



Client  
**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8



- LEGEND**
- PARCEL BOUNDARY/ROW
  - RNUP BOUNDARY
  - POST & BOARD FENCE
  - POST & WIRE FENCE
  - 2.4m WIDE GRANULAR TRAIL
  - PROPOSED CULVERT
  - SIGNAGE
  - OFFSET P-GATES

5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
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2	REVIEW SUBMISSION	2020.03.27
1	ISSUED FOR 30% SUBMISSION	2019.11.20

REVISIONS	DESCRIPTION	DATE
A	A detail number number du detail	
B	B source drawing no. de dessin no.	
C	C detail on drawing no. detail sur dessin no.	

project title  
titre du projet

**NORTH EAST TRAIL**

drawing title  
titre du dessin

**TRAIL SIGNAGE**  
**SIDELINE 34**

designed by  
conçu par

LB

drawn by  
dessiné par

LB

approved by  
approuvé par

EN

Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

scale  
échelle

AS SHOWN

project no.  
projet no.

19-1500

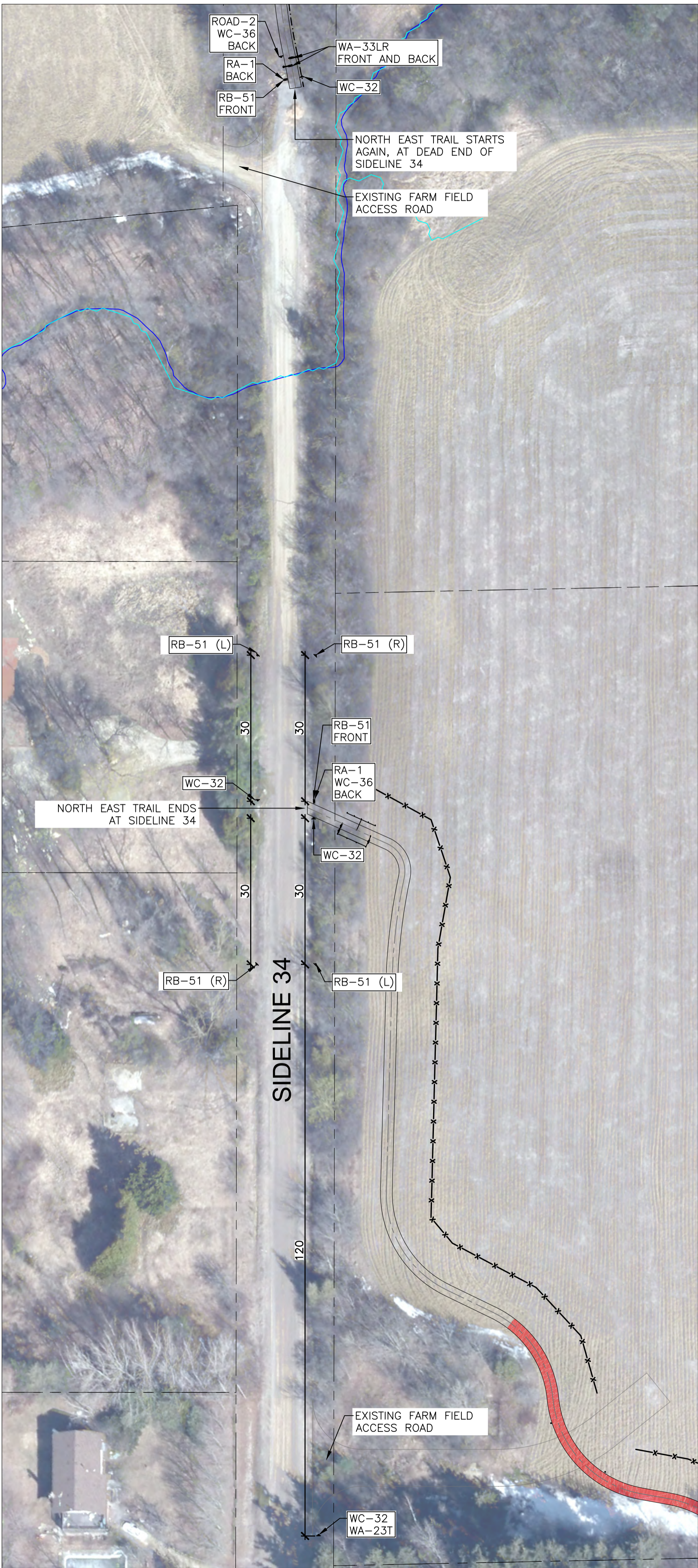
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OCTOBER 2019

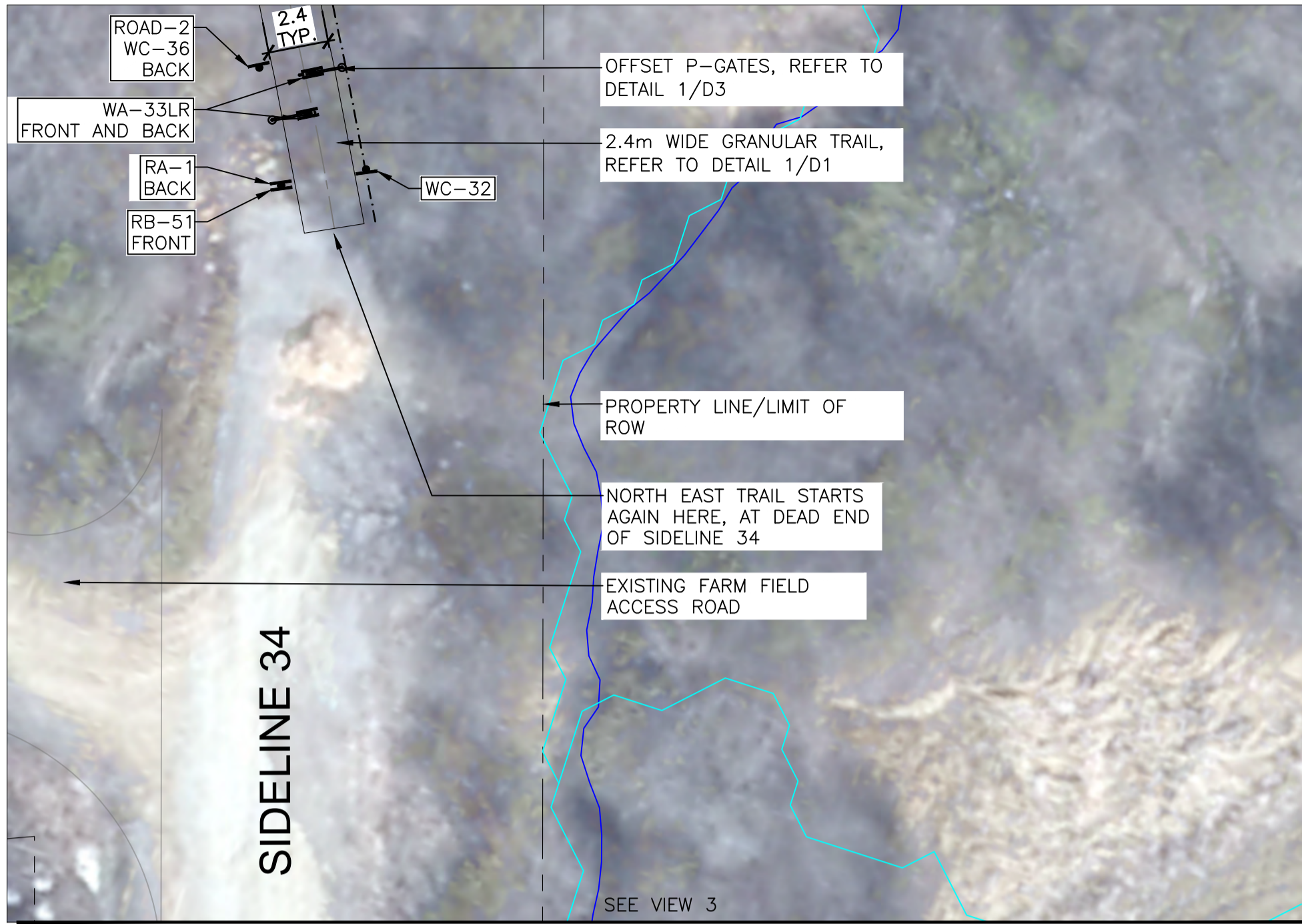
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feuille

T1

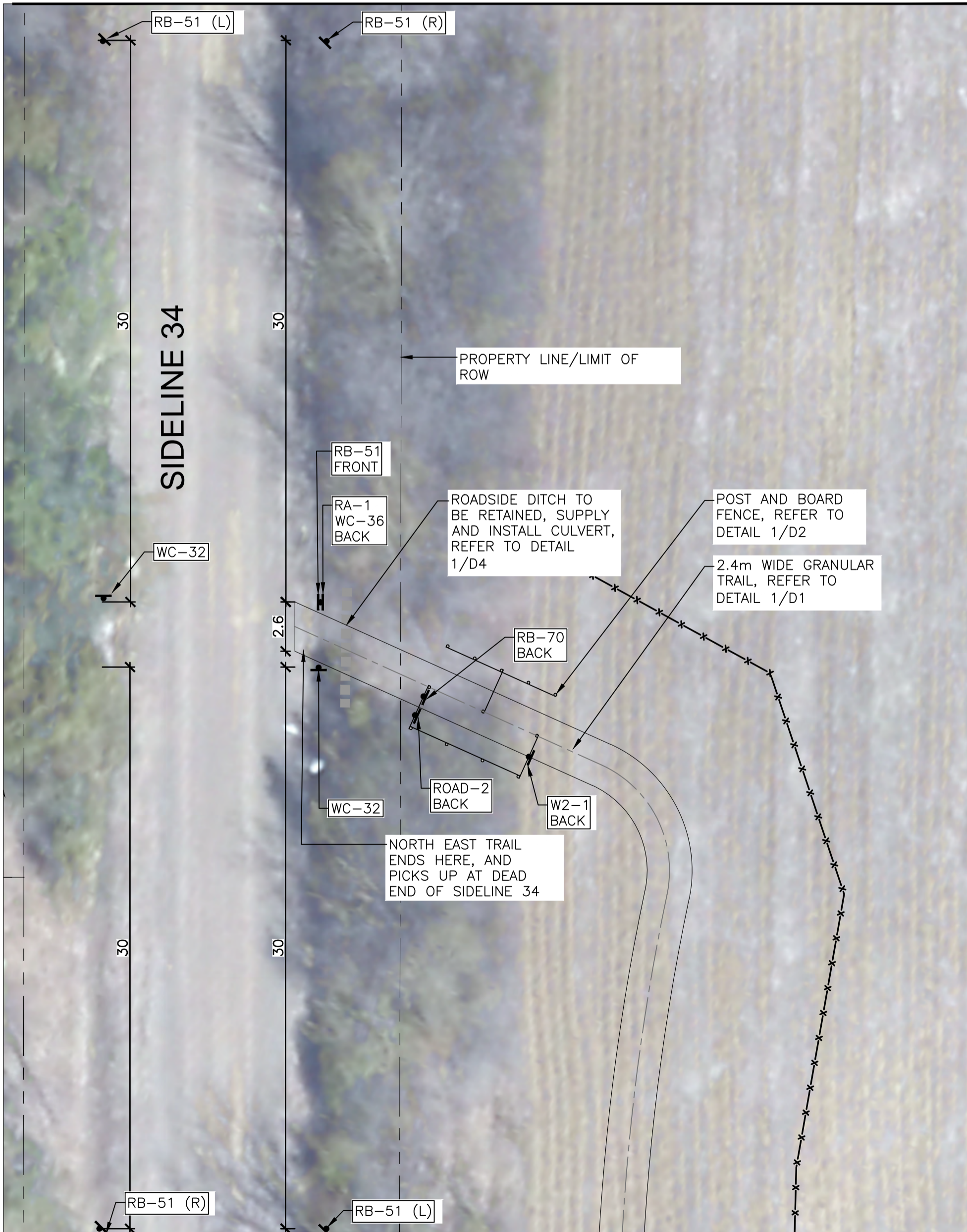
29 OF 49



1 SIDELINE 34 TRAIL - ROADWAY SIGNAGE



2 SIDELINE 34 TRAIL - PEDESTRIAN SIGNAGE



3 SIDELINE 34 TRAIL - PEDESTRIAN SIGNAGE

ROAD SIGNAGE SCHEDULE			
KEY	SYMBOL	DESCRIPTION	QTY
RB-51 600x600mm		NO PARKING	2
RB-51 (L) 600x600mm		NO PARKING	2
RB-51 (R) 600x600mm		NO PARKING	2
WC-36 800x300mm		PEDESTRIANS YIELD TO TRAFFIC (EN)	2
		PIÉTONS CÉDEZ LE PASSAGE (FR)	2
WC-32 750x750mm		TRAIL CROSSING	4
WA-23T 600x300mm		DISTANCE TAB	1

PEDESTRIAN SIGNAGE SCHEDULE			
KEY	SYMBOL	DESCRIPTION	QTY
RA-1 300x300mm		STOP SIGN	2
RB-70 300x300mm		DISMOUNT BICYCLE AND WALK	1
W2-1 300x300mm		ROAD CROSSING AHEAD	1
ROAD-2 860x150mm		UNIQUE BASED ON LOCATION	2
WA-33LR 450x900mm		OBJECT MARKER (TO BE MOUNTED HORIZONTALLY, SEE NOTE 8)	4

- NOTE:
- ALL DIMENSIONS ARE IN m UNLESS SPECIFIED OTHERWISE
  - ALL SIGNAGE TO CONFORM TO ONTARIO TRAFFIC MANUAL AND CITY OF PICKERING STANDARDS
  - ENSURE SIGNS ARE LOCATED BETWEEN 2-4m FROM THE OUTSIDE EDGE OF THE OUTER TRAFFIC LANE, AND 1.5-2.5m ABOVE THE EDGE OF TRAFFIC LANE, AS PER OTM BOOK 1B.
  - ALL SIGNS OUTSIDE OF ROAD RIGHT-OF-WAY TO BE BILINGUAL
  - ALL SIGNAGE TO BE ON ALUMINUM SIGNBOARDS USING TYPE I (ENGINEERING GRADE) RETROREFLECTIVE SHEETING, PER ASTM SPECIFICATION D 4956-90
  - ALL ROADWAY SIGNS TO BE MOUNTED AS PER OPSD 989.110
  - ALL PEDESTRIAN SIGNS TO BE MOUNTED AS PER DETAIL 1/D6
  - WA-33LR SIGNS TO BE VISIBLE ON BOTH SIDES OF EACH OFFSET GATE, OR IF POSSIBLE HAVE CHEVRON GRAPHIC PRINTED ON BOTH SIDES OF SIGN AND MOUNTED TO FRONT OF OFFSET GATE, BUT VISIBLE THROUGH GATE ON OPPOSITE SIDE.

Client

**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant

Stamp

North

**LEGEND**

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- POST & BOARD FENCE
- POST & WIRE FENCE
- 2.4m WIDE GRANULAR TRAIL
- PROPOSED CULVERT
- SIGNAGE
- OFFSET P-GATES

5	ISSUED FOR TENDER	2021.01.29
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1	ISSUED FOR 30% SUBMISSION	2019.11.20

REVISIONS	DESCRIPTION	DATE
A	detail number	
B	source drawing no.	
C	detail on drawing no.	

project title

**NORTH EAST TRAIL**

titre du projet

drawing title

**TRAIL SIGNAGE**  
**SIDELINE 34**

titre du dessin

designed by

LB

conçu par

drawn by

LB

dessiné par

approved by

EN

approuvé par

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

scale

AS SHOWN

échelle

sheet

feuille

project no.

19-1500

proj. no.

T2

date

OCTOBER 2019


date

30 OF 49




( ) 1:200





Parks  
Canada



Parcs  
Canada

---

Client
Consultant


## PARKS CANADA

## ROUGE NATIONAL URBAN PARK

10725 Reesor Rd, Markham, ON L6B 1A8

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Consultant
Consultant




## DILLON

## CONSULTING









Stamp
North





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### LEGEND

	PARCEL BOUNDARY/ROW
	RNUP BOUNDARY
	POST & BOARD FENCE
	POST & WIRE FENCE
	2.4m WIDE GRANULAR TRAIL
	PROPOSED CULVERT
	SIGNAGE
	OFFSET P-GATES


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5	ISSUED FOR TENDER	2021.01.29
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1	ISSUED FOR 30% SUBMISSION	2019.11.20


REVIEWS	DESCRIPTION	DATE
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A detail number  
number du détail




B source drawing no.  
de dessin no.




C detail on drawing no.  
détail sur dessin no.

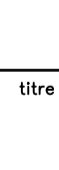
## NORTH EAST TRAIL



A detail number  
number du détail



B source drawing no.  
de dessin no.



C detail on drawing no.  
détail sur dessin no.

project title
titre du projet

## NORTH EAST TRAIL

drawing title
titre du dessin

## TRAIL CROSSING DURHAM RD 5/ CONCESSION RD 9

designed by
conçu par

LB

drawn by
dessiné par

LB

approved by
approuvé par

EN

Parks Canada Project Manager
Administrateur de Projets Parcs Canada

scale AS SHOWN

project no. 19-1500

date OCTOBER 2019

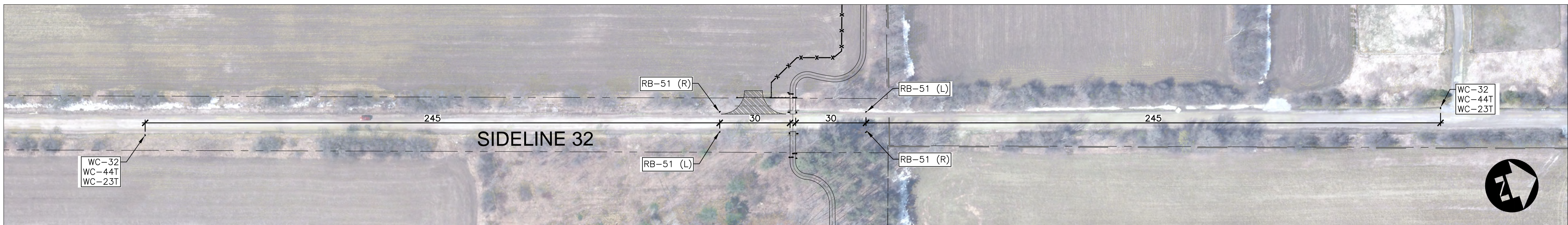
échelle

project no.

date

sheet OF 49

# T3



## 1 SIDELINE 32 TRAIL CROSSING - ROADWAY SIGNAGE

1:1000



## 2 SIDELINE 32 TRAIL CROSSING - PEDESTRIAN SIGNAGE

1:200

ROADWAY SIGNAGE SCHEDULE			
KEY	SYMBOL	DESCRIPTION	QTY
RB-51 600x600mm		NO PARKING	2
RB-51 (L) 600x600mm		NO PARKING	2
RB-51 (R) 600x600mm		NO PARKING	2

WC-36 800x300mm	 	PEDESTRIANS YIELD TO TRAFFIC (EN) + PIÉTONS CÉDEZ LE PASSAGE (FR)	4
WC-32 750x750mm		TRAIL CROSSING	4
WC-44T 600x300mm		TRAIL CROSSING TAB	4
WC-T 600x300mm		DOWNWARD DIAGONAL ARROW	2
WA-23T 600x300mm		DISTANCE TAB	2

PEDESTRIAN SIGNAGE SCHEDULE			
KEY	SYMBOL	DESCRIPTION	QTY
RA-1 300x300mm		STOP SIGN	2
RB-70 300x300mm		DISMOUNT BICYCLE AND WALK	2
W2-1 300x300mm		ROAD CROSSING AHEAD	2
ROAD-4 860x150mm		UNIQUE BASED ON LOCATION	2
WA-33LR 450x900mm		OBJECT MARKER (TO BE MOUNTED HORIZONTALLY, SEE NOTE 8)	8

- NOTE:
- ALL DIMENSIONS ARE IN m UNLESS SPECIFIED OTHERWISE
  - ALL SIGNAGE TO CONFORM TO ONTARIO TRAFFIC MANUAL AND CITY OF PICKERING STANDARDS
  - ENSURE SIGNS ARE LOCATED BETWEEN 2-4m FROM THE OUTSIDE EDGE OF THE OUTER TRAFFIC LANE, AND 1.5-2.5m ABOVE THE EDGE OF TRAFFIC LANE, AS PER OTM BOOK 1B.
  - ALL SIGNS OUTSIDE OF ROAD RIGHT-OF-WAY TO BE BILINGUAL
  - ALL SIGNAGE TO BE ON ALUMINUM SIGNBOARDS USING TYPE 1 (ENGINEERING GRADE) RETROREFLECTIVE SHEETING, PER ASTM SPECIFICATION D 4956-90
  - ALL ROADWAY SIGNS TO BE MOUNTED AS PER OPSD 989.110
  - ALL PEDESTRIAN SIGNS TO BE MOUNTED AS PER DETAIL 1/D6.
  - WA-33LR SIGNS TO BE VISIBLE ON BOTH SIDES OF EACH OFFSET GATE, OR IF POSSIBLE HAVE CHEVRON GRAPHIC PRINTED ON BOTH SIDES OF SIGN AND MOUNTED TO FRONT OF OFFSET GATE, BUT VISIBLE THROUGH GATE ON OPPOSITE SIDE.



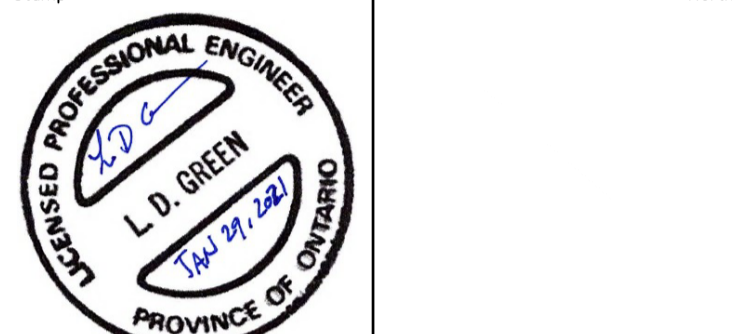
PARKS CANADA  
ROUGE NATIONAL URBAN PARK

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant



Stamp



### LEGEND

- PARCEL BOUNDARY/ROW
- RNUP BOUNDARY
- POST & BOARD FENCE
- POST & WIRE FENCE
- 2.4m WIDE GRANULAR TRAIL
- PROPOSED CULVERT
- SIGNAGE
- OFFSET P-GATES

5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
3	ISSUED FOR 60% SUBMISSION	2020.10.16
2	REVIEW SUBMISSION	2020.03.27
1	ISSUED FOR 30% SUBMISSION	2019.11.20

REVISIONS	DESCRIPTION	DATE
A	detail number	
B	source drawing no.	
C	detail on drawing no.	

project title

NORTH EAST TRAIL

drawing title

TRAIL CROSSING  
SIDELINE 32

designed by

LB

conçu par

drawn by

LB

dessiné par

approved by

EN

approuvé par

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

scale

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feuille

project no.

19-1500

project no.

T4

date

OCTOBER 2019

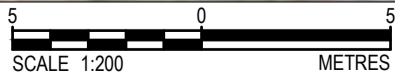
date

32 OF 49





1 WEBB ROAD TRAIL CROSSING - PEDESTRIAN SIGNAGE



PEDESTRIAN SIGNAGE SCHEDULE			
KEY	SYMBOL	DESCRIPTION	QTY
RA-1 300x300mm		STOP SIGN	1
RB-70 300x300mm		DISMOUNT BICYCLE AND WALK	1
W2-1 300x300mm		ROAD CROSSING AHEAD	1
ROAD-6 750x150mm		UNIQUE BASED ON LOCATION	1
WC-36 800x300mm		PEDESTRIANS YIELD TO TRAFFIC (EN)	1
		+ PIÉTONS CÉDEZ LE PASSAGE (FR)	1

- NOTE:
1. ALL DIMENSIONS ARE IN m UNLESS SPECIFIED OTHERWISE
  2. ALL SIGNAGE TO CONFORM TO ONTARIO TRAFFIC MANUAL AND TOWNSHIP OF UXBRIDGE STANDARDS
  3. ENSURE SIGNS ARE LOCATED BETWEEN 2-4m FROM THE OUTSIDE EDGE OF THE OUTER TRAFFIC LANE, AND 1.5-2.5m ABOVE THE EDGE OF TRAFFIC LANE, AS PER OTM BOOK 1B.
  4. ALL SIGNS OUTSIDE OF ROAD RIGHT-OF-WAY TO BE BILINGUAL
  5. ALL SIGNAGE TO BE ON ALUMINUM SIGNBOARDS USING TYPE I (ENGINEERING GRADE) RETROREFLECTIVE SHEETING, PER ASTM SPECIFICATION D 4956-90
  6. ALL ROADWAY SIGNS TO BE MOUNTED AS PER OPSD 989.110
  7. ALL PEDESTRIAN SIGNS TO BE MOUNTED AS PER DETAIL 1/D6



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LEGEND	
	PARCEL BOUNDARY/ROW
	RNUP BOUNDARY
	POST & BOARD FENCE
	POST & WIRE FENCE
	2.4m WIDE GRANULAR TRAIL
	PROPOSED CULVERT
	SIGNAGE
	OFFSET P-GATES

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REVISIONS		DATE
DESCRIPTION		
A	A detail number	
B	B source drawing no.	
C	C detail on drawing no.	

project title      titre du projet

NORTH EAST TRAIL

drawing title      titre du dessin

TRAIL SIGNAGE  
WEBB ROAD

designed by      conçu par

LB

drawn by      dessiné par

LB

approved by      approuvé par

EN

Parks Canada Project Manager      Administrateur de Projets Parcs Canada

scale      échelle      sheet      feuille

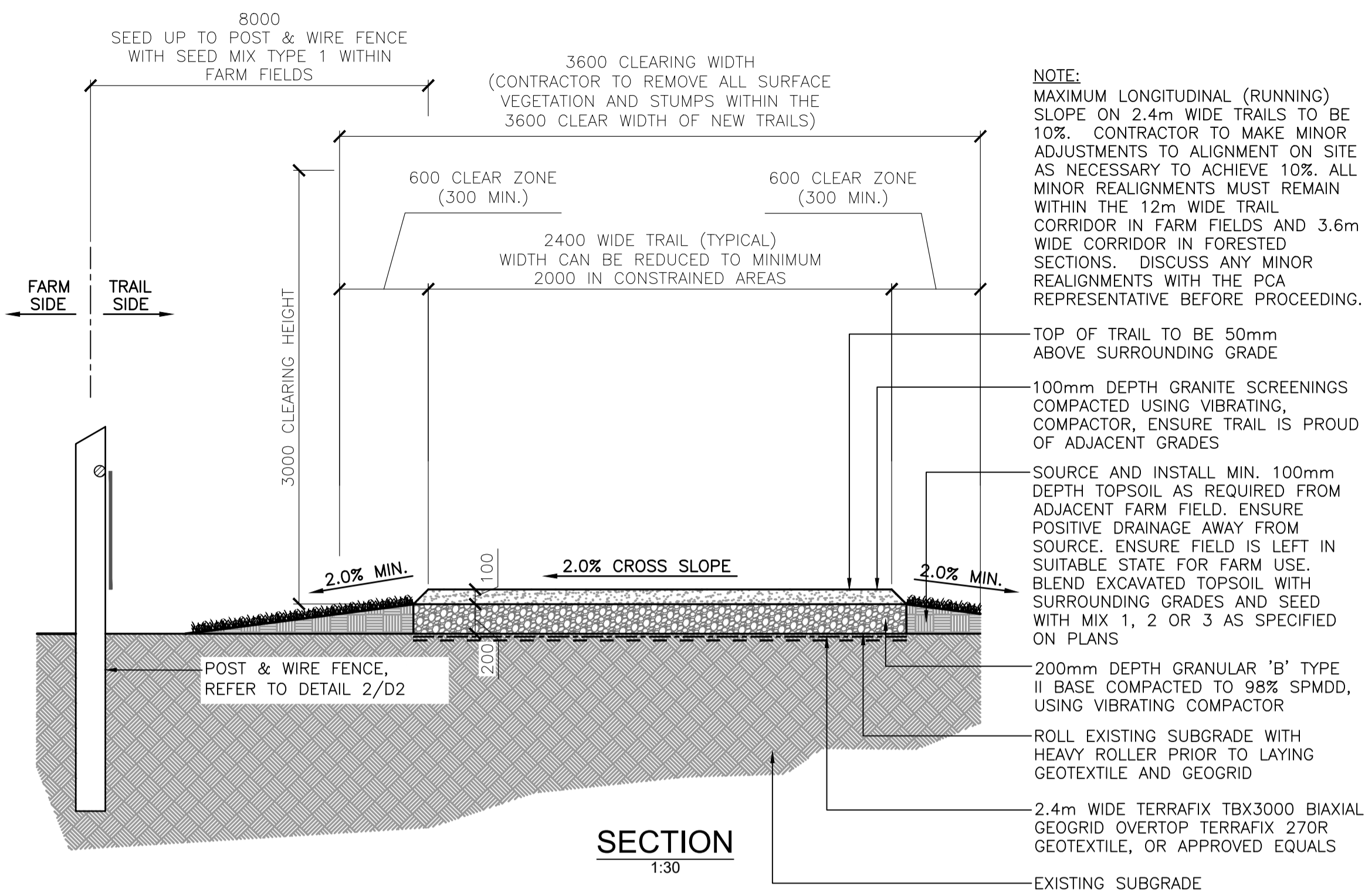
AS SHOWN

project no.      projet no.      T6

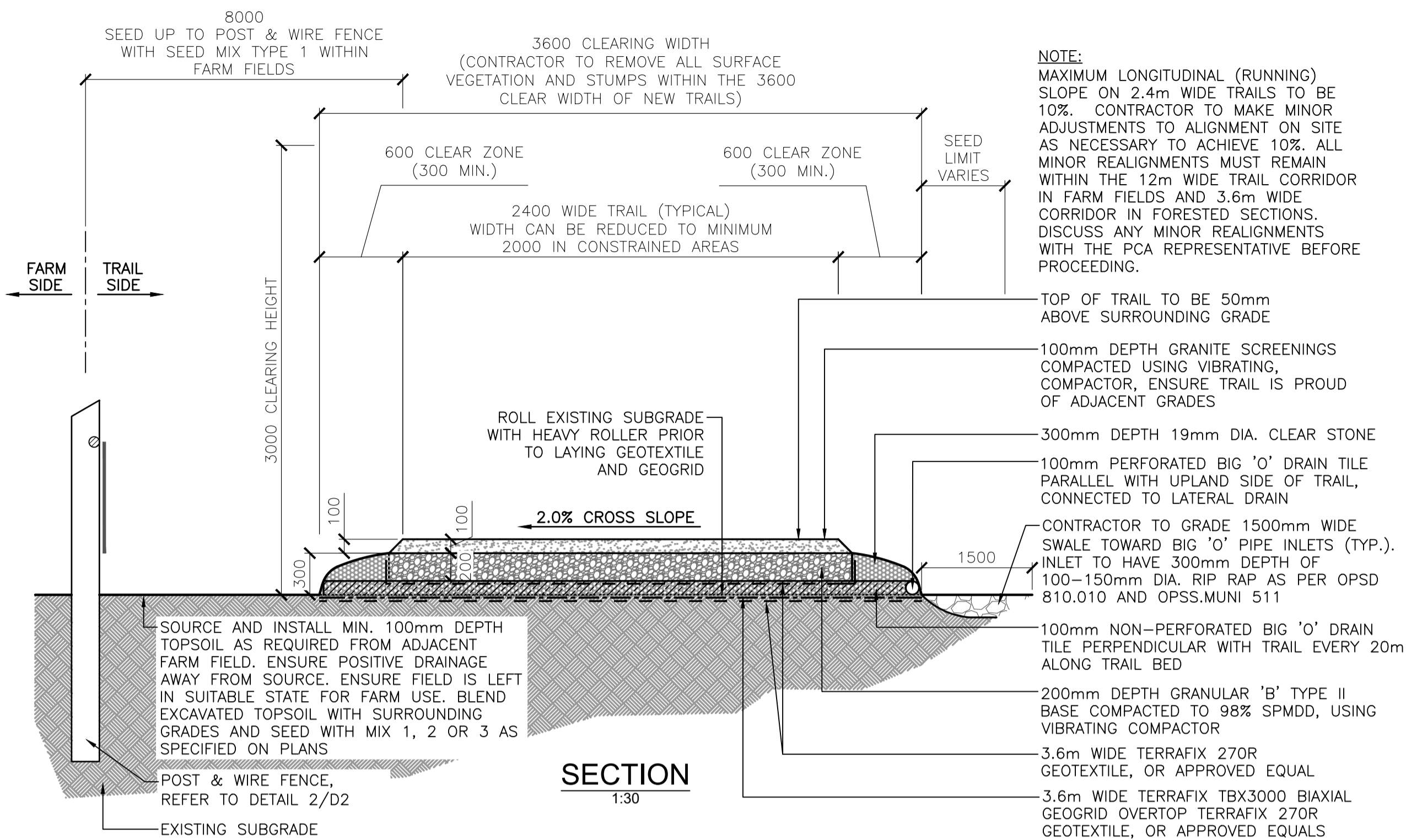
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date      date      34 OF 49

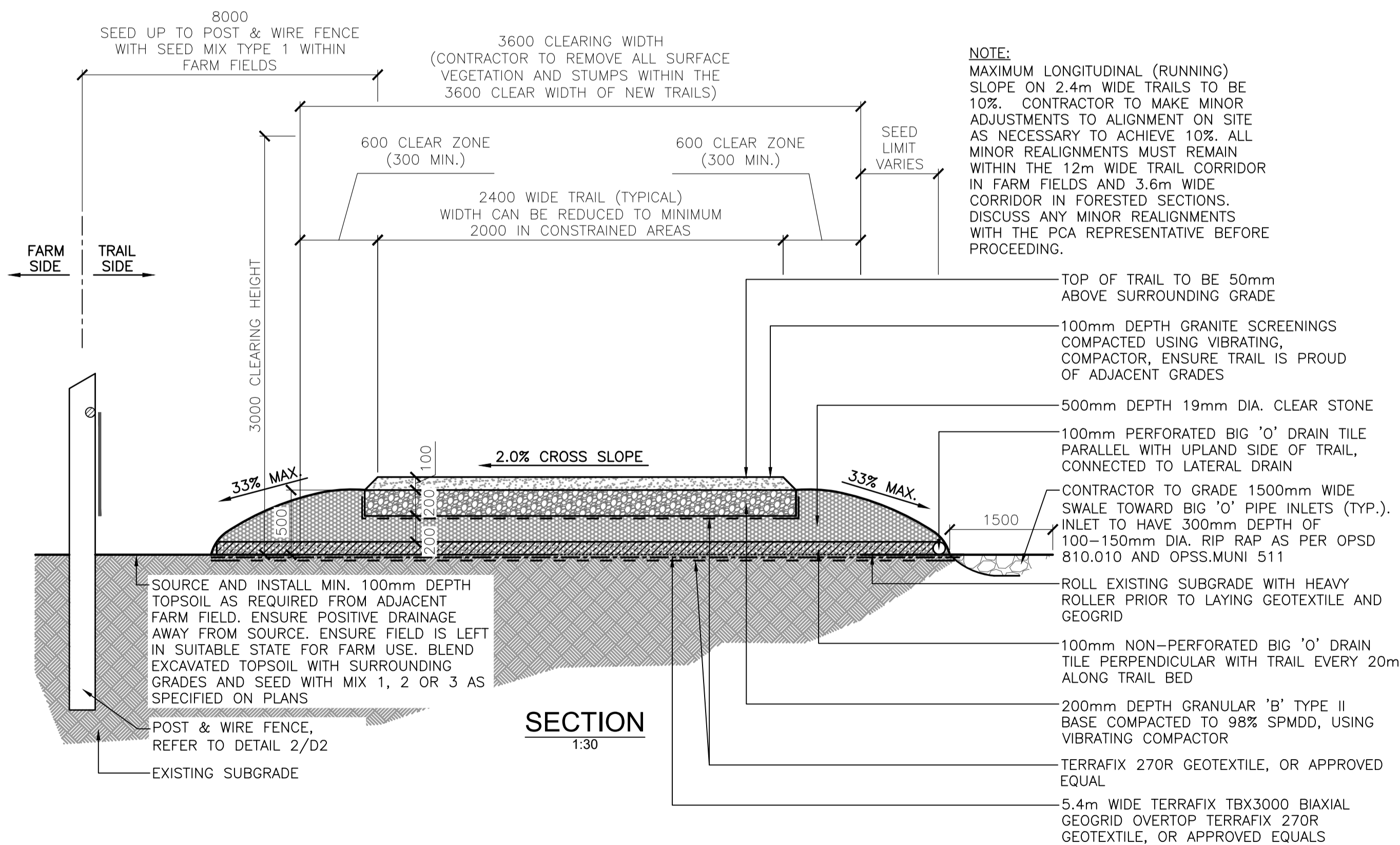
OCTOBER 2019



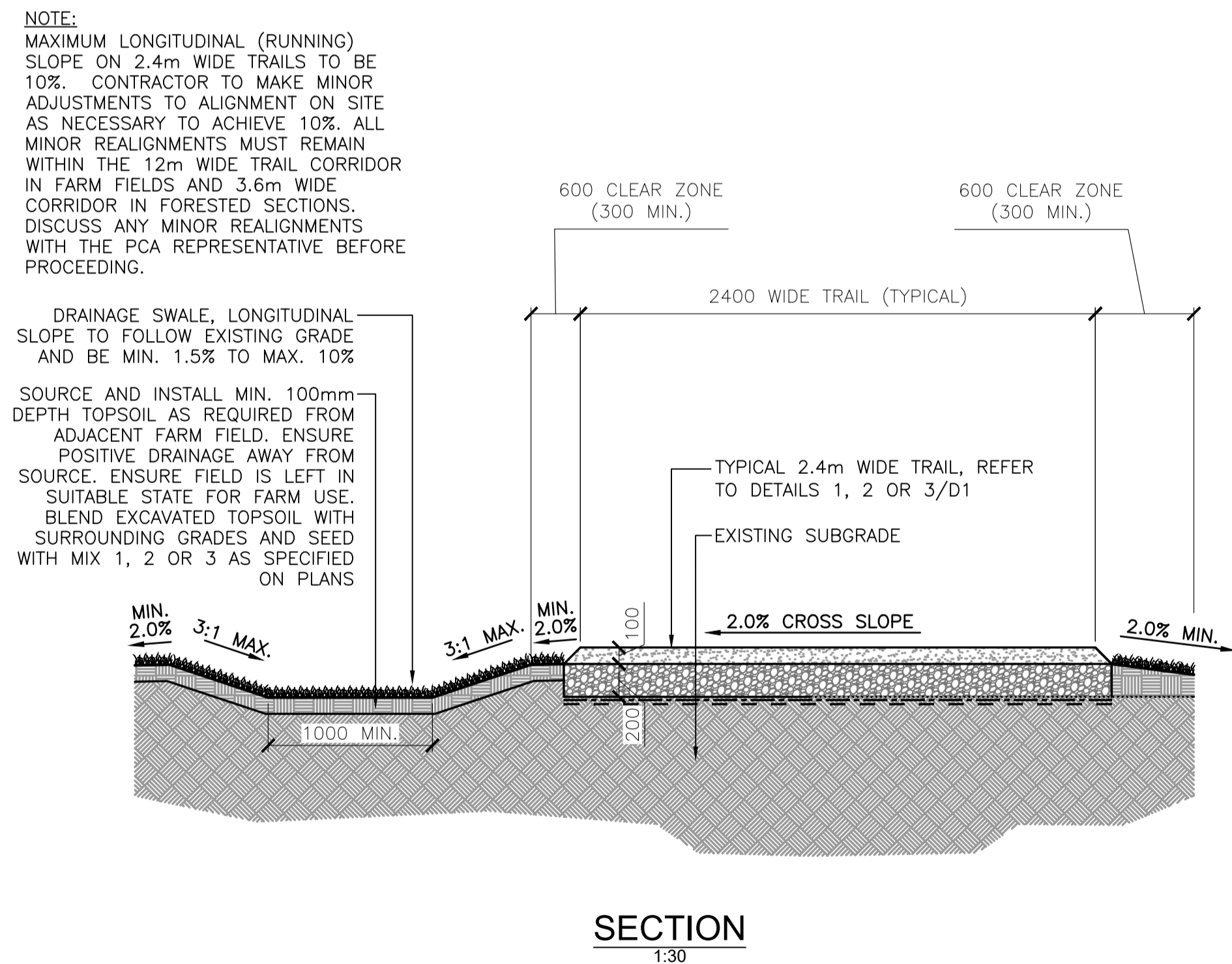
1 TYPICAL 2.4m WIDE TRAIL  
1:30



2 TYPICAL 2.4m WIDE TRAIL ON RAISED TRAIL BED  
1:30



3 TYPICAL 2.4m WIDE TRAIL ON EXTRA RAISED TRAIL BED  
1:30

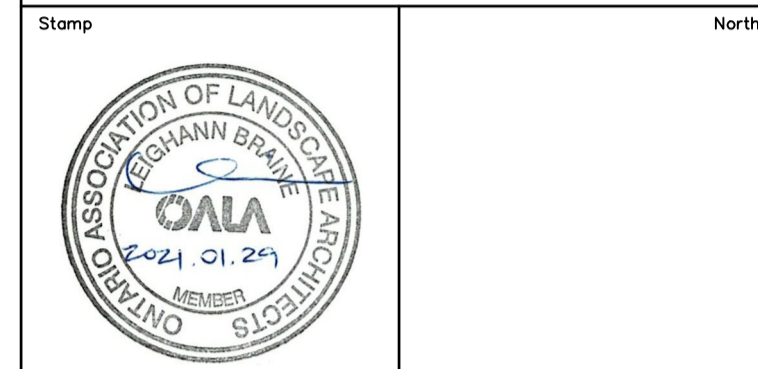


4 TYPICAL 2.4m WIDE TRAIL WITH CONVEYANCE SWALE  
1:30



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project title titre du projet

NORTH EAST TRAIL

drawing title titre du dessin  
LANDSCAPE DETAILS

designed by LB conçu par

drawn by LB dessiné par

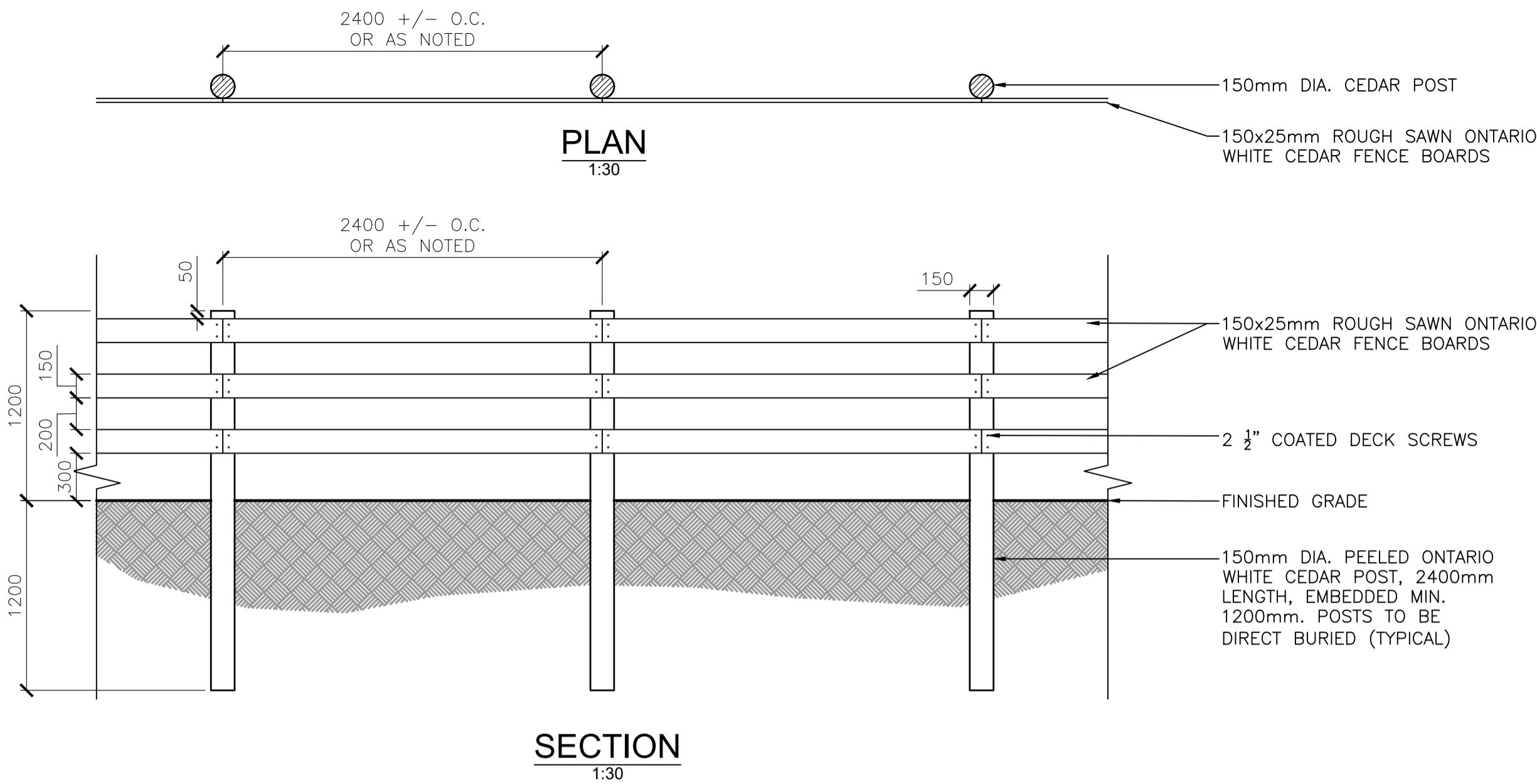
approved by EN approuvé par

Parks Canada Project Manager Administrateur de Projets Parcs Canada

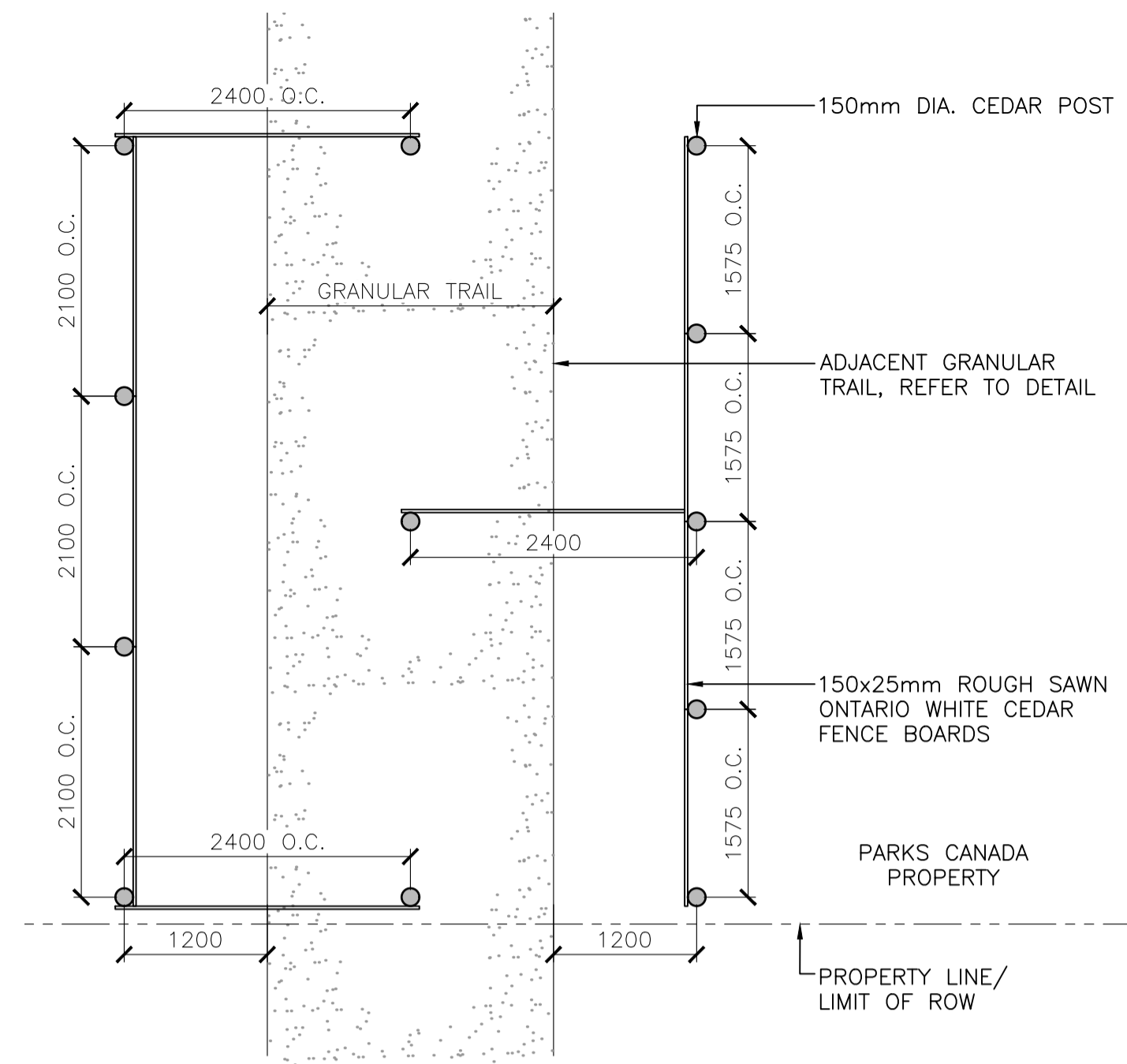
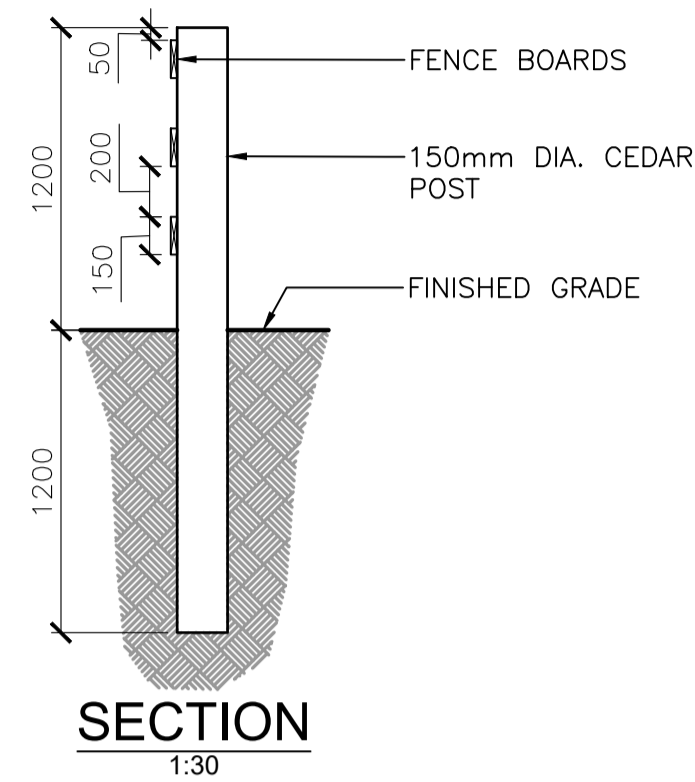
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project no. 19-1500 projet no. D1

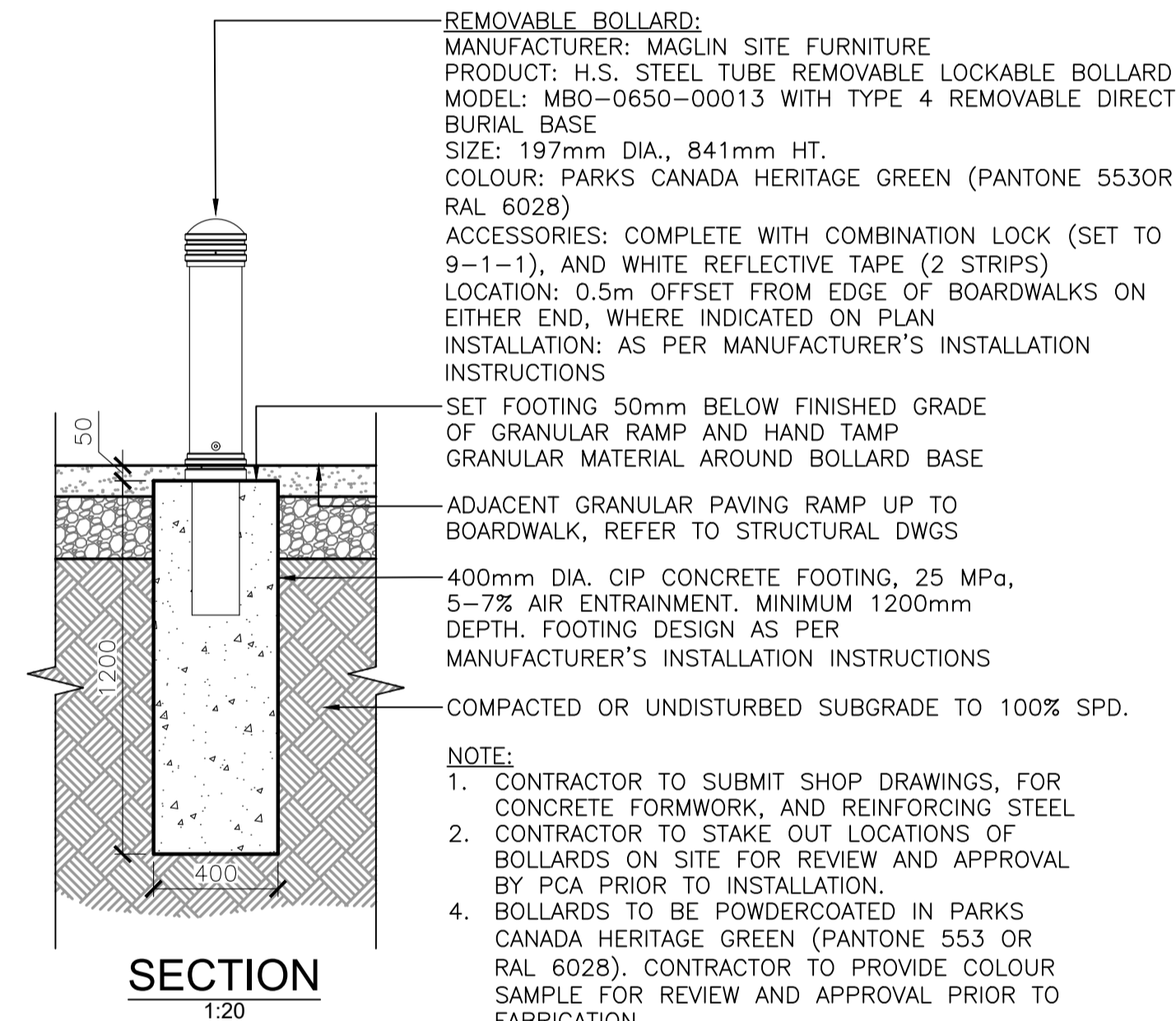
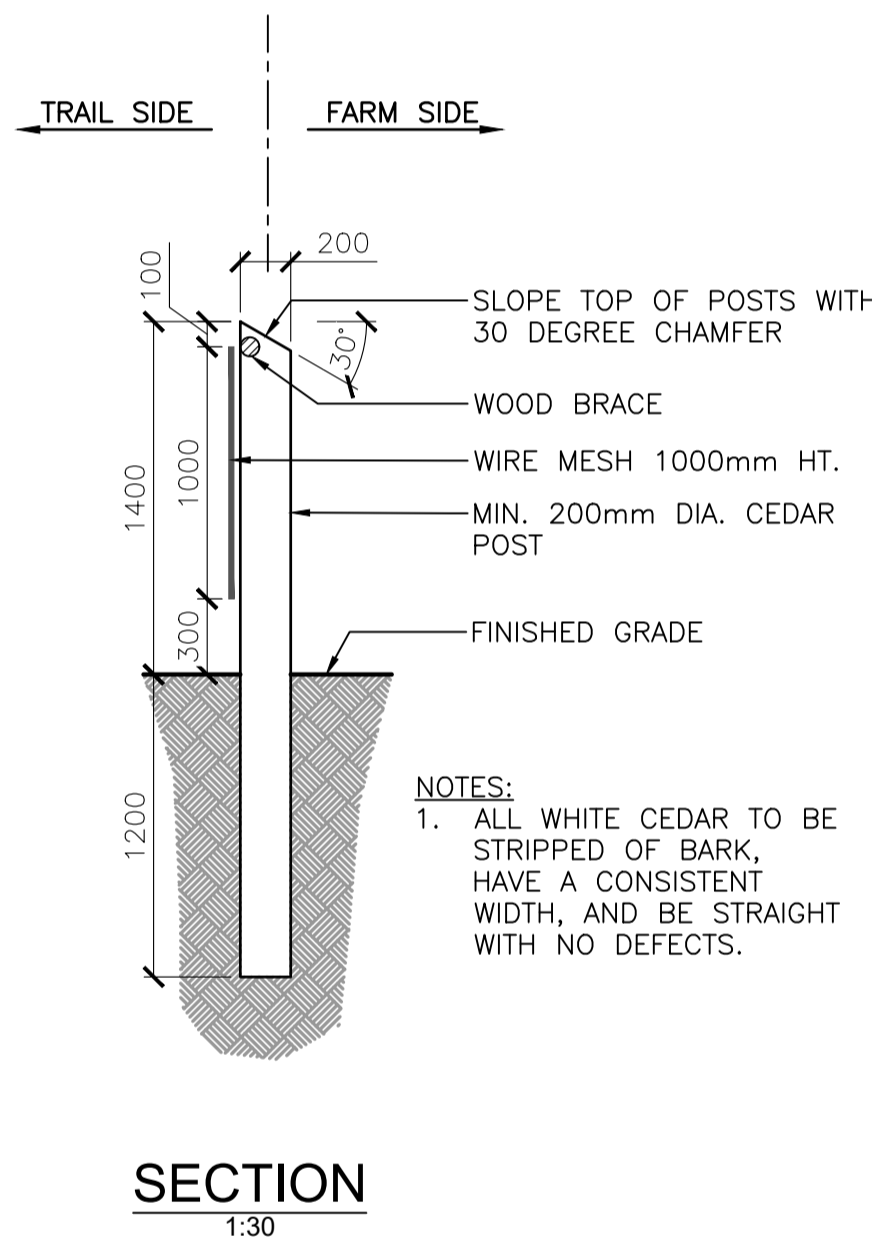
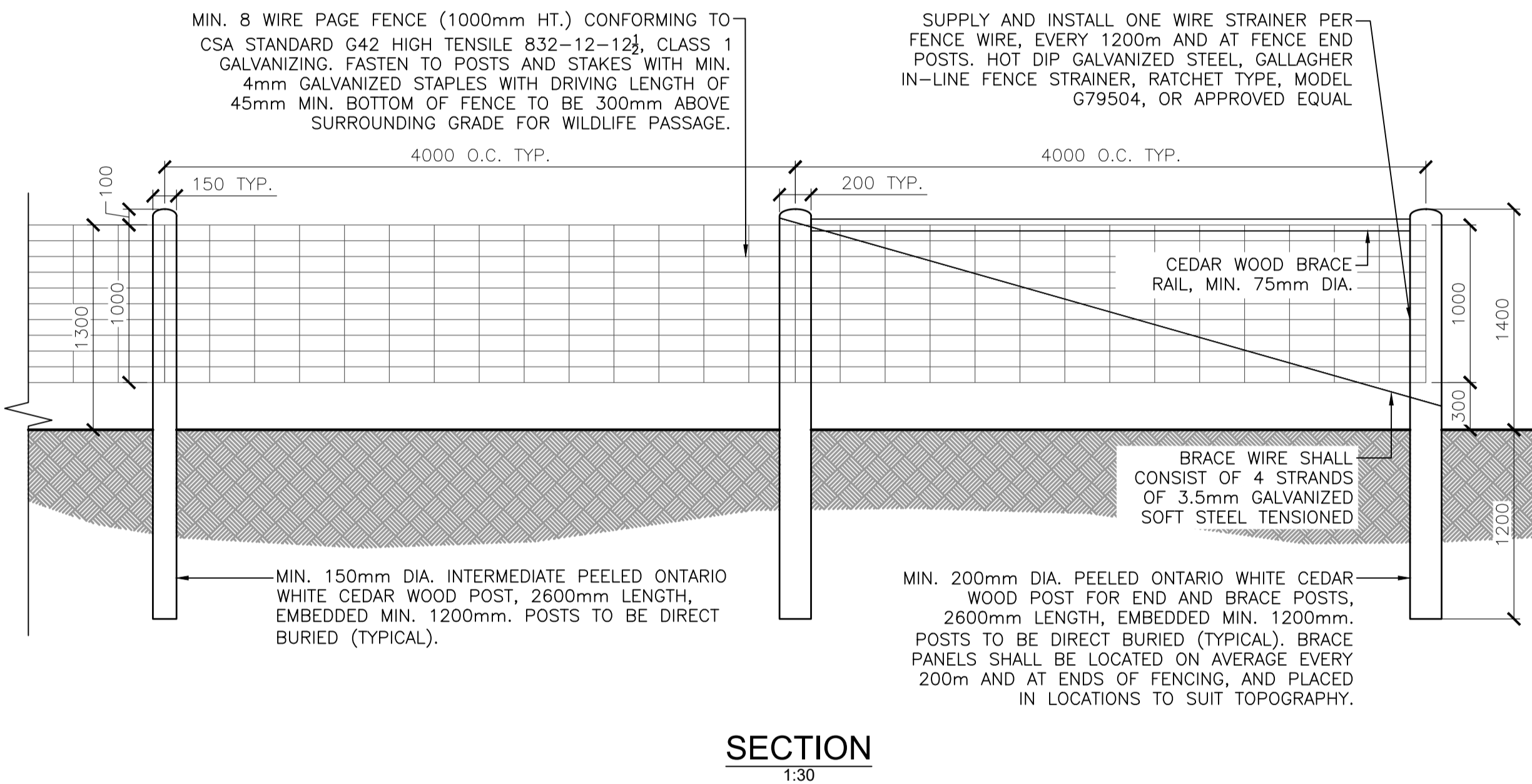
date OCTOBER 2019 date



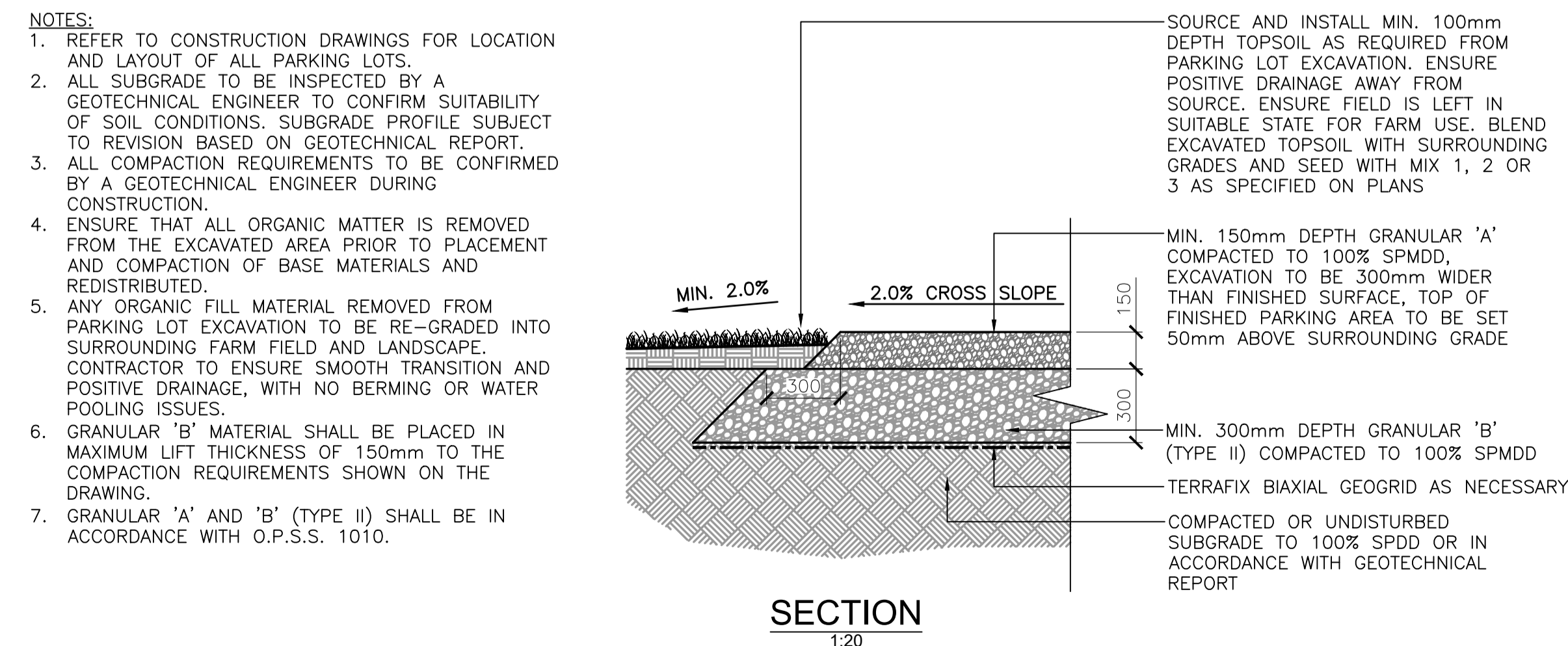
NOTES:  
1. ALL WHITE CEDAR TO BE STRIPPED OF BARK, HAVE A CONSISTENT WIDTH, AND BE STRAIGHT WITH NO DEFECTS.



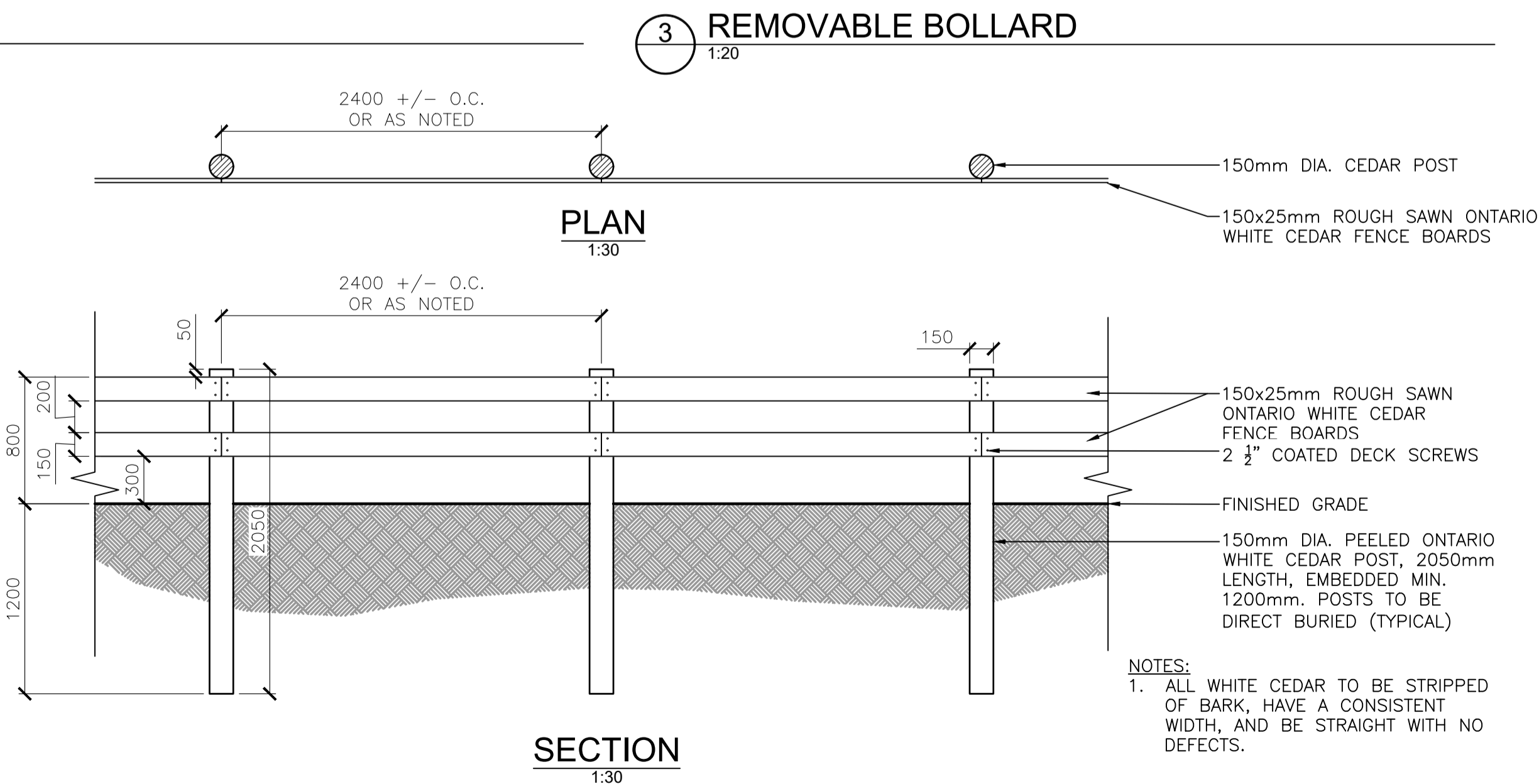
## 1 POST & BOARD FENCE



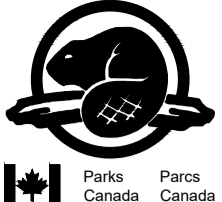
## 2 POST & WIRE FENCE



## 4 GRANULAR PAVING AT PARKING LOT



## 5 POST & BOARD FENCE AT PLAZA AREAS



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**ROUGE NATIONAL URBAN PARK**

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Consultant

**DILLON**  
CONSULTING

Stamp

North

ASSOCIATION OF LANDSCAPE ARCHITECTS  
ONTARIO  
MEMBER  
2024, CL 29

5	ISSUED FOR TENDER	2021.01.29
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REVISIONS	DESCRIPTION	DATE
A	detail number number du detail	A
B	source drawing no. de dessin no.	B C
C	detail on drawing no. detail sur dessin no.	

project title

titre du projet

**NORTH EAST TRAIL**

drawing title

titre du dessin

**LANDSCAPE DETAILS**

designed by

conçu par

LB

drawn by

dessiné par

LB

approved by

approuvé par

EN

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

scale

échelle

sheet

feuille

AS SHOWN

project no.

projet no.

19-1500

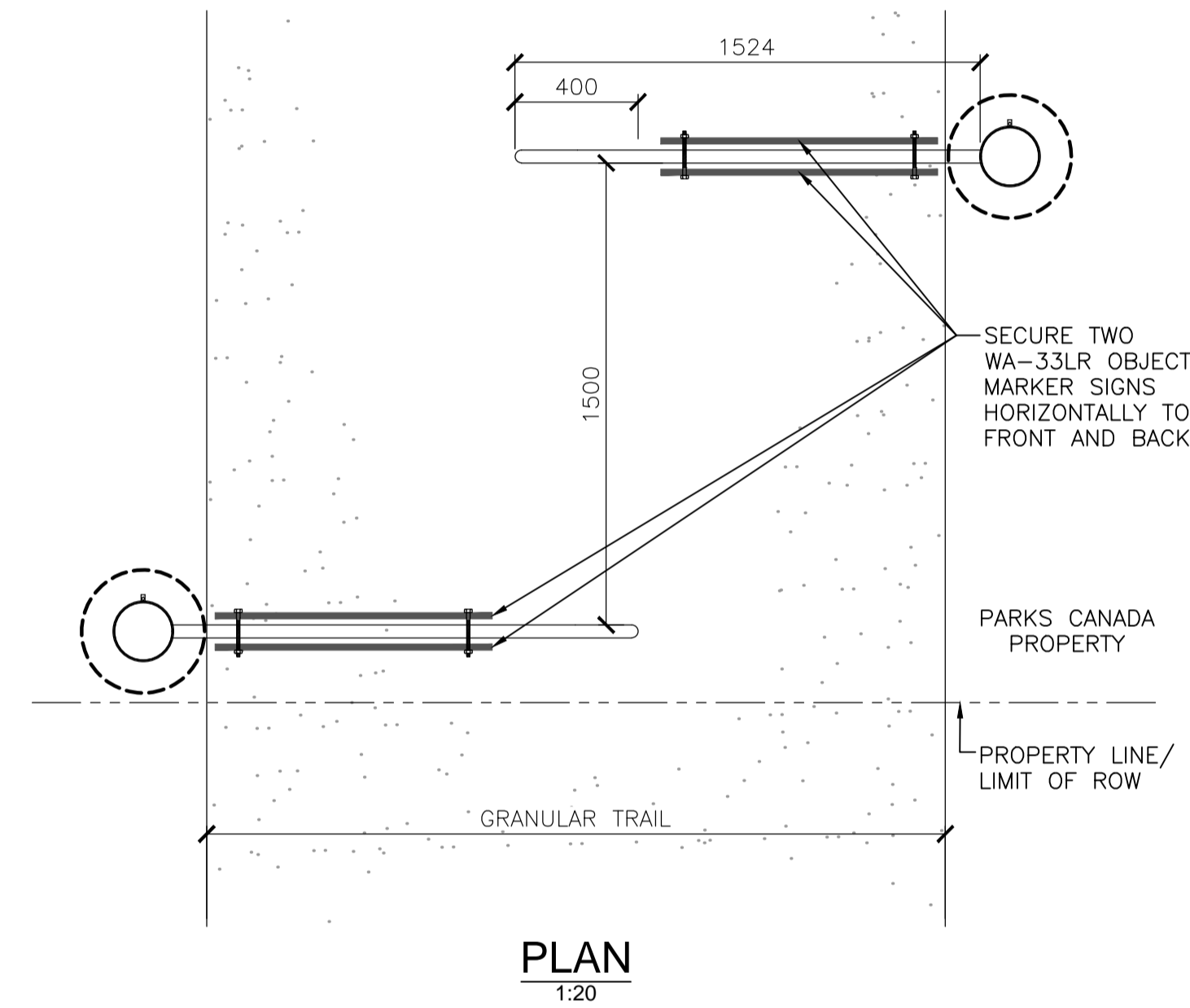
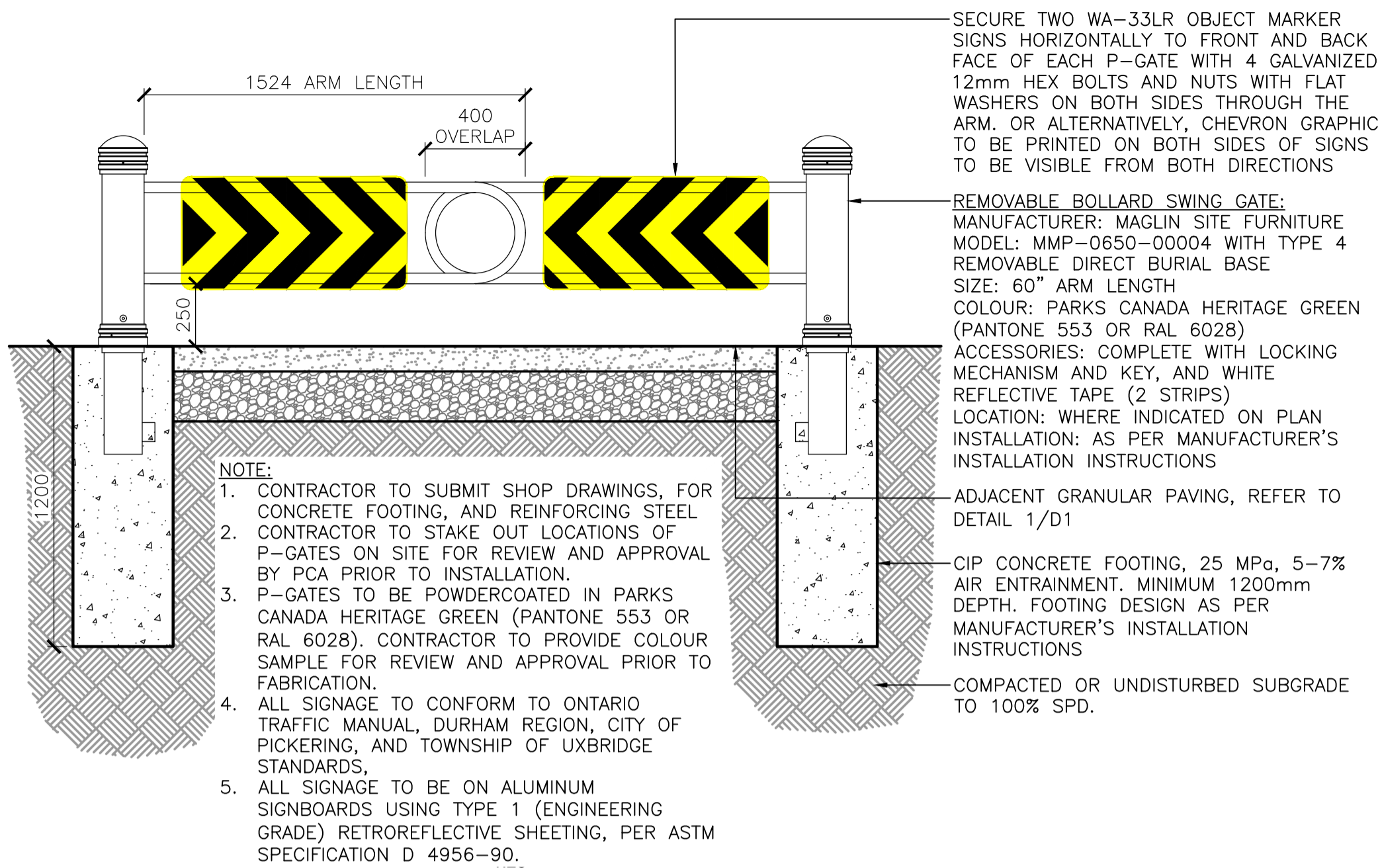
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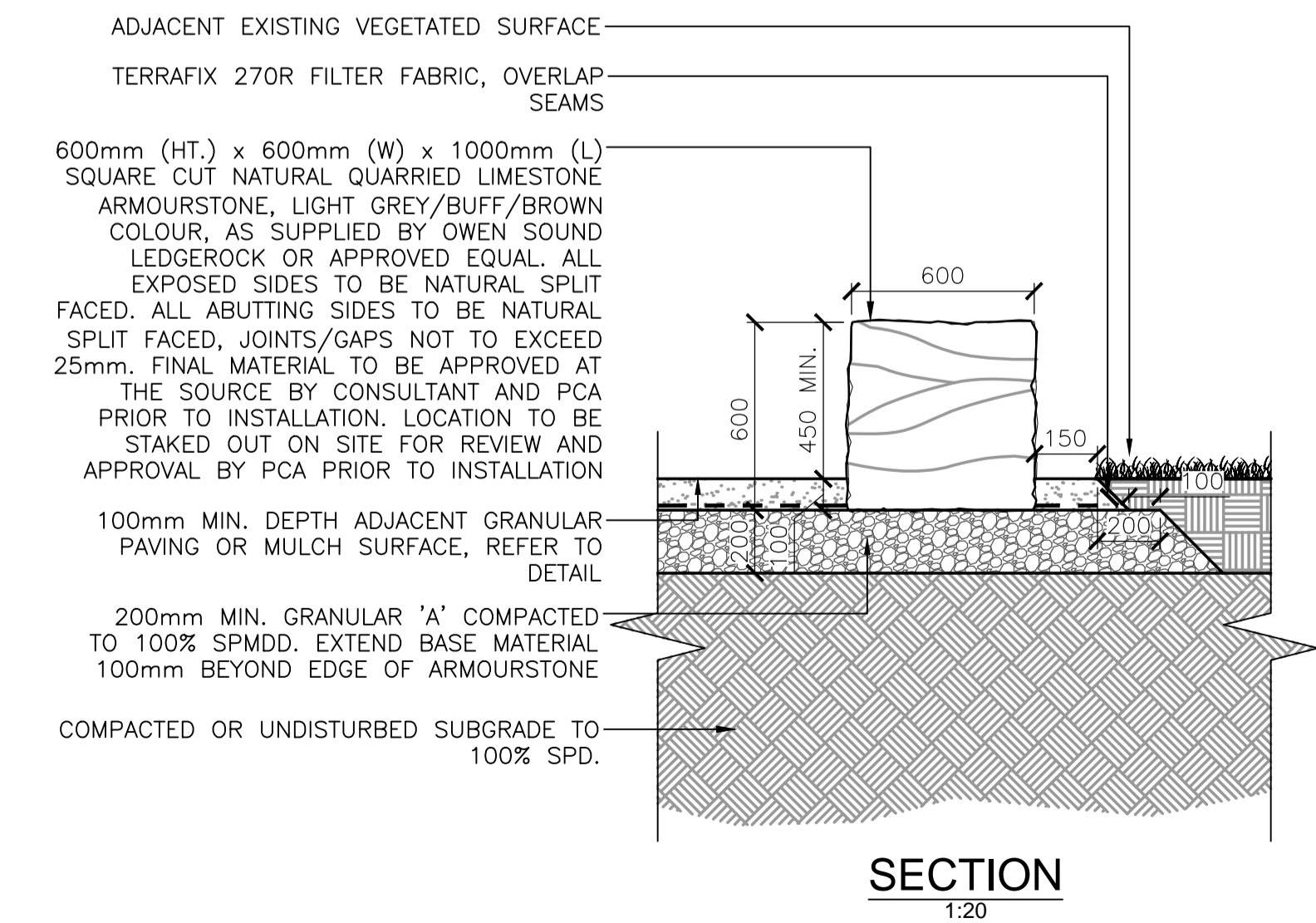
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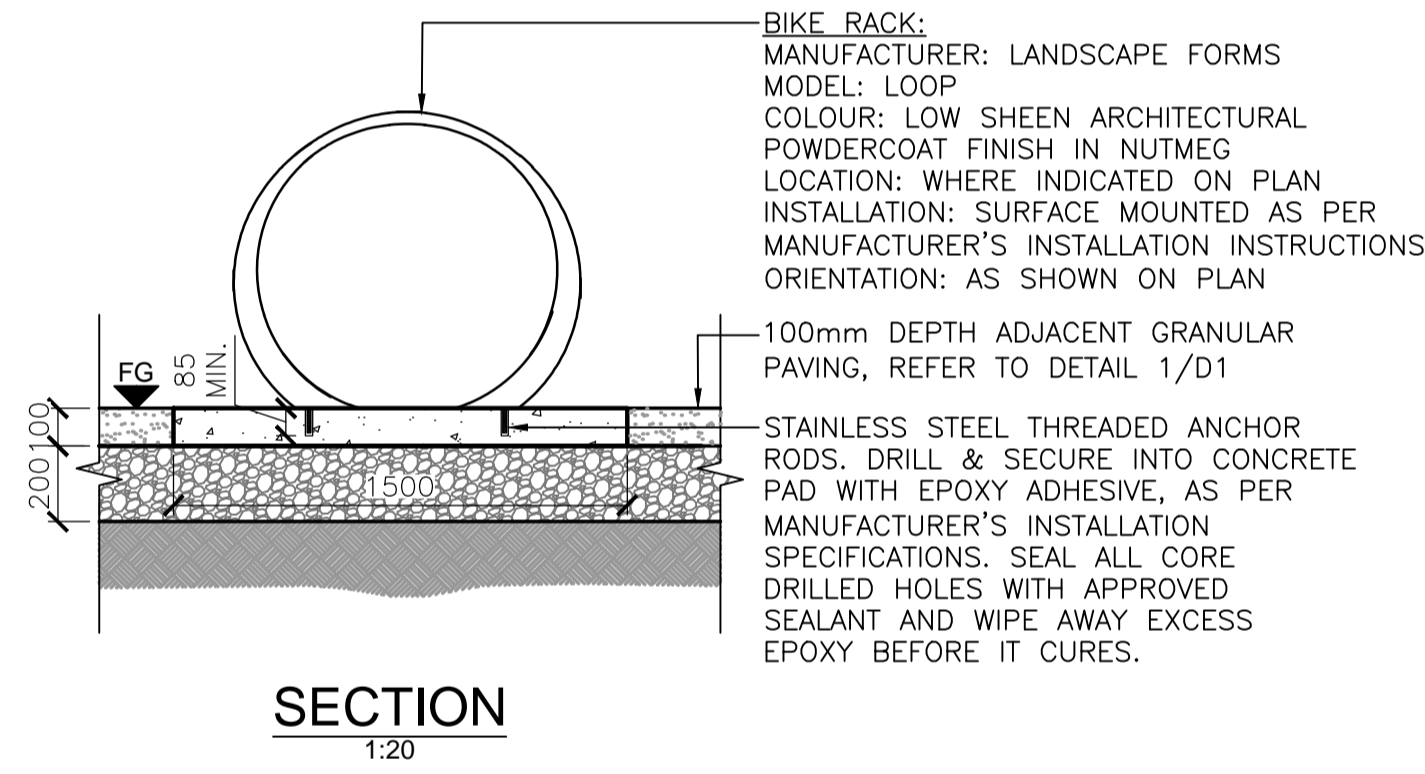
36 OF 49



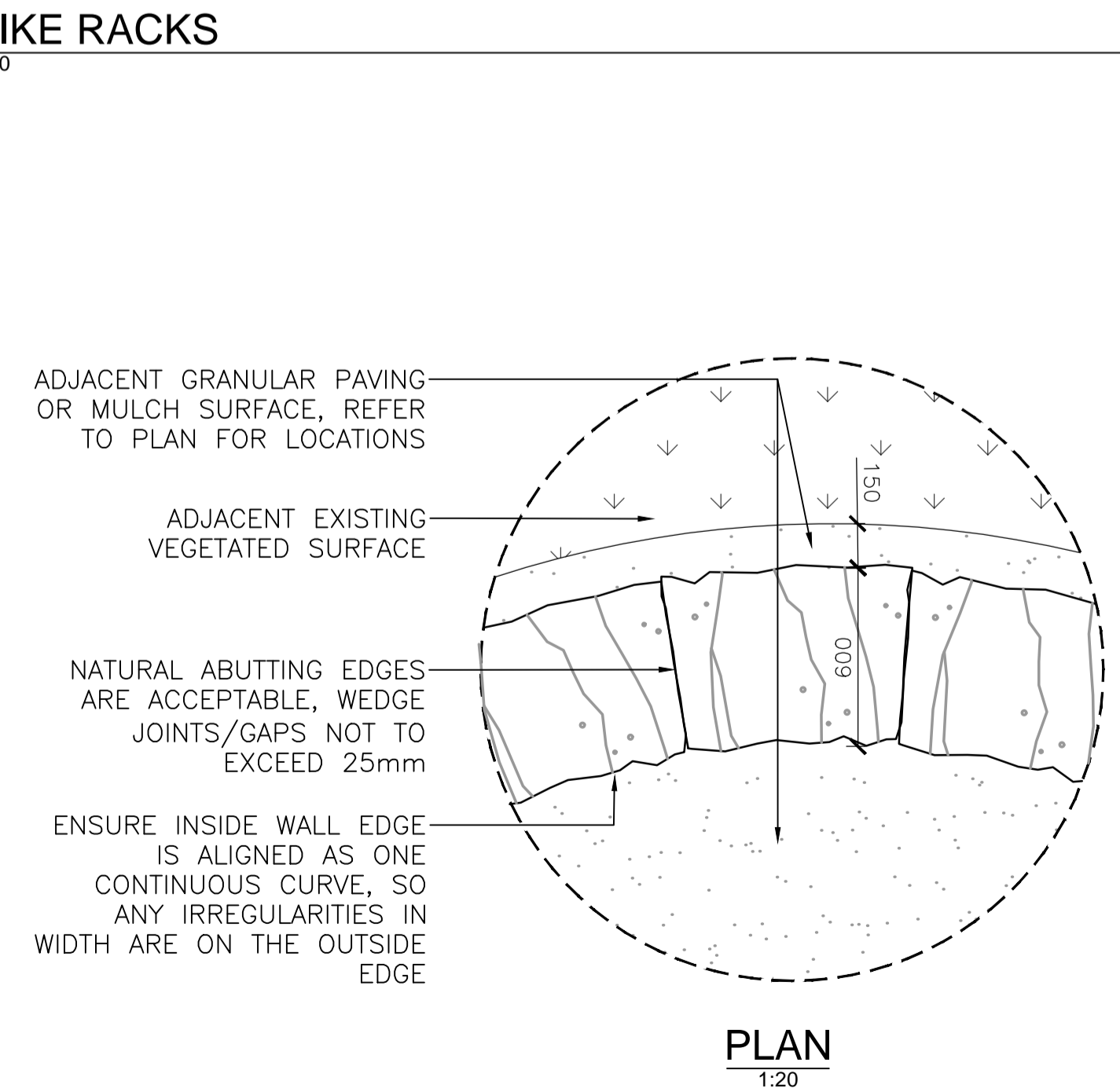
1 P-GATES  
1:20



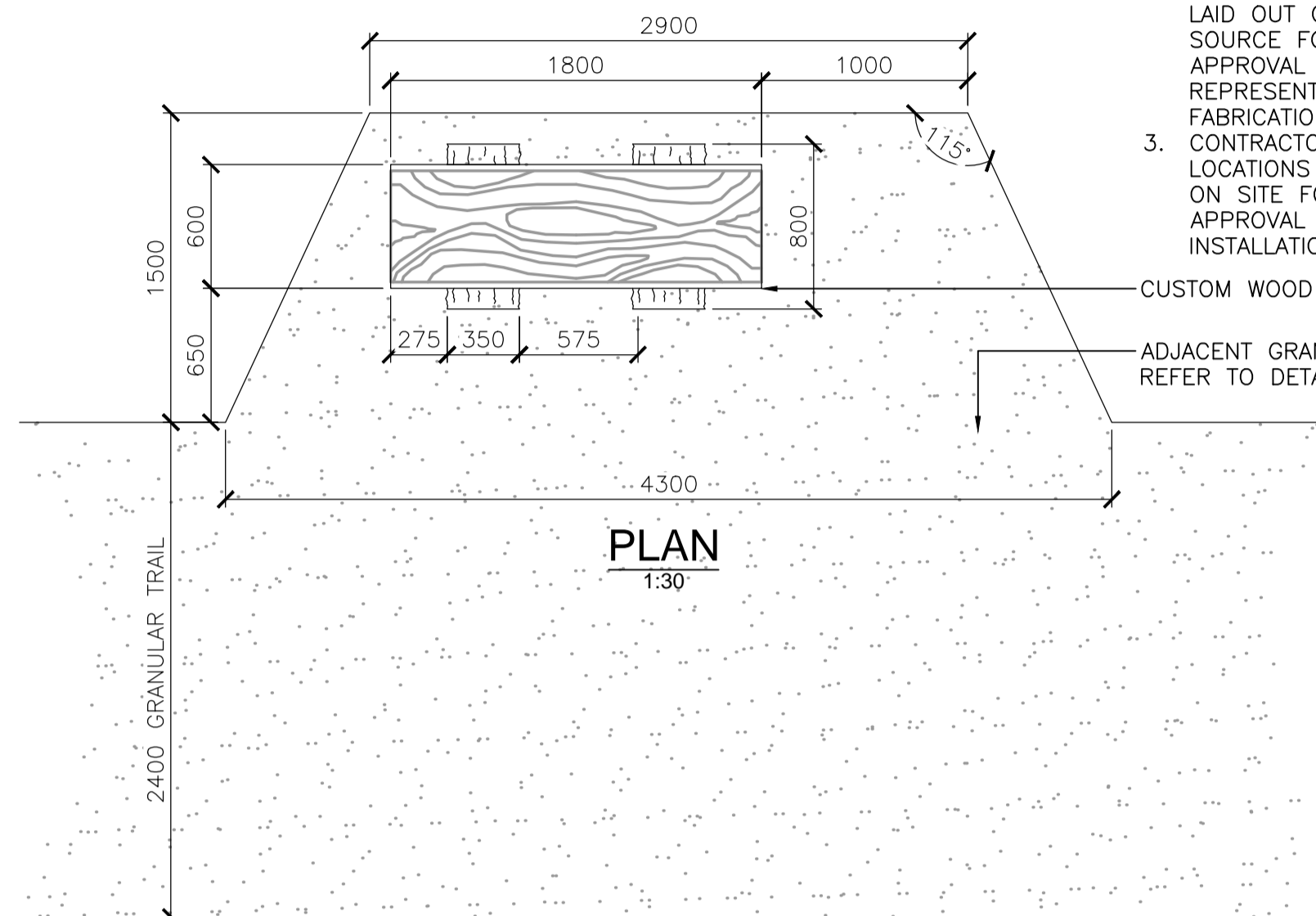
3 ARMOURSTONE SEATWALL/EDGE  
1:20



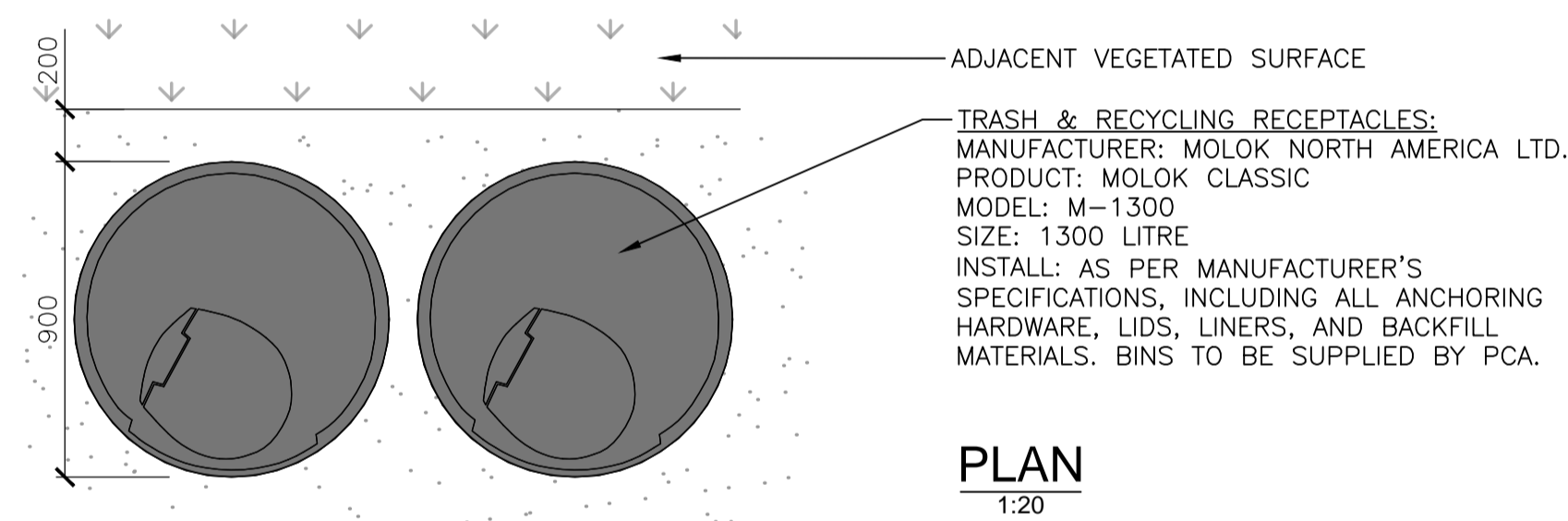
4 TRASH RECEPTACLE  
1:20



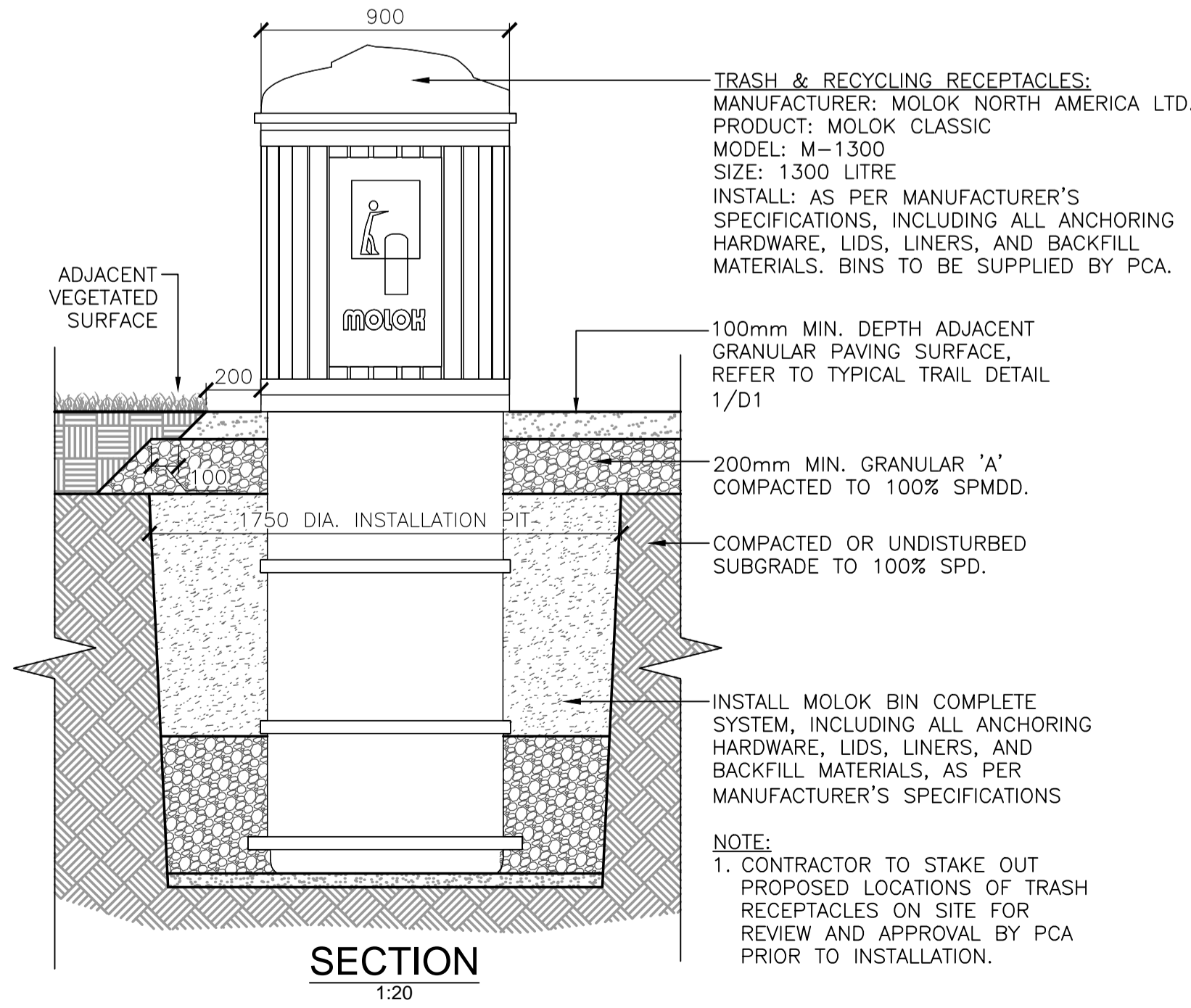
5 BIKE RACKS  
1:20



2 SEATING NODE WITH WOOD BENCH  
1:30



PLAN  
1:20



SECTION  
1:20

SIDE  
1:30

SECTION  
1:30

PLAN  
1:30

PLAN  
1:20

- NOTE:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR BIKE RACKS.
  2. CONTRACTOR TO STAKE OUT LOCATIONS OF CONCRETE SLAB ON SITE FOR REVIEW AND APPROVAL BY PCA PRIOR TO FORMING AND INSTALLATION.
  3. BIKE RACKS TO BE POWDERCOATED IN LOW SHEEN NUTMEG COLOUR. CONTRACTOR TO PROVIDE COLOUR CHIP SAMPLE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

BIKE RACK:  
MANUFACTURER: LANDSCAPE FORMS  
MODEL: LOOP  
COLOUR: LOW SHEEN ARCHITECTURAL POWDERCOAT FINISH IN NUTMEG  
LOCATION: WHERE INDICATED ON PLAN  
INSTALLATION: SURFACE MOUNTED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS  
ORIENTATION: AS SHOWN ON PLAN

100mm DEPTH ADJACENT GRANULAR PAVING, REFER TO DETAIL 1/D1

STAINLESS STEEL THREADED ANCHOR RODS, DRILL & SECURE INTO CONCRETE PAD WITH EPOXY ADHESIVE, AS PER MANUFACTURER'S INSTALLATION SPECIFICATIONS. SEAL ALL CORE DRILLED HOLES WITH APPROVED SEALANT AND WIPE AWAY EXCESS EPOXY BEFORE IT CURES.

ADJACENT GRANULAR PAVING, REFER TO DETAIL 1/D1

MIN. 600mm DIA. NATURAL HARDWOOD LOG, PLANE LOG IN HALF LENGTHWISE, 1800mm LENGTH

MIN. 350mm DIA. NATURAL HARDWOOD LOG, 800mm LENGTH. PLANE 1/4 OF LOG LENGTH, AND PLACE FLAT SIDE DOWN ON GRANULAR BASE


15M REBAR, ANCHOR MIN. 1000mm IN GROUND

COMPACTED OR UNDISTURBED SUBGRADE TO 100% SPD.

- NOTE:
1. PREPARE LOGS BY REMOVING ALL EXTERNALLY LOOSE DEBRIS.
  2. LOGS TO BE SELECTED AND LAID OUT ON SITE OR AT SOURCE FOR REVIEW AND APPROVAL BY PCA REPRESENTATIVE PRIOR TO FABRICATION.
  3. CONTRACTOR TO STAKE OUT LOCATIONS OF SEATING NODES ON SITE FOR REVIEW AND APPROVAL BY PCA PRIOR TO INSTALLATION.

CUSTOM WOOD BENCH

ADJACENT GRANULAR PAVING, REFER TO DETAIL



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Consultant



**DILLON**  
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North

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REVISIONS	DESCRIPTION	DATE
A	detail number	
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project title

**NORTH EAST TRAIL**

drawing title

**LANDSCAPE DETAILS**

designed by

LB

drawn by

LB

approved by

EN

Parks Canada Project Manager

Administrateur de Projets Parcs Canada

scale

AS SHOWN

project no.

19-1500

date

OCTOBER 2019

sheet

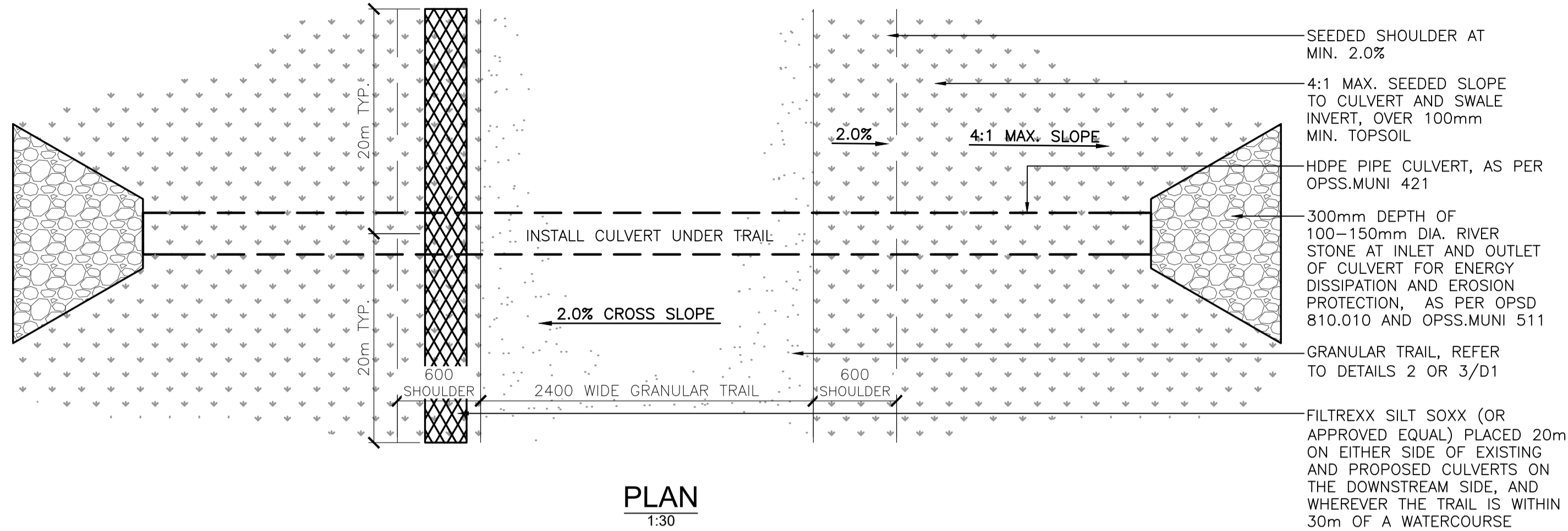
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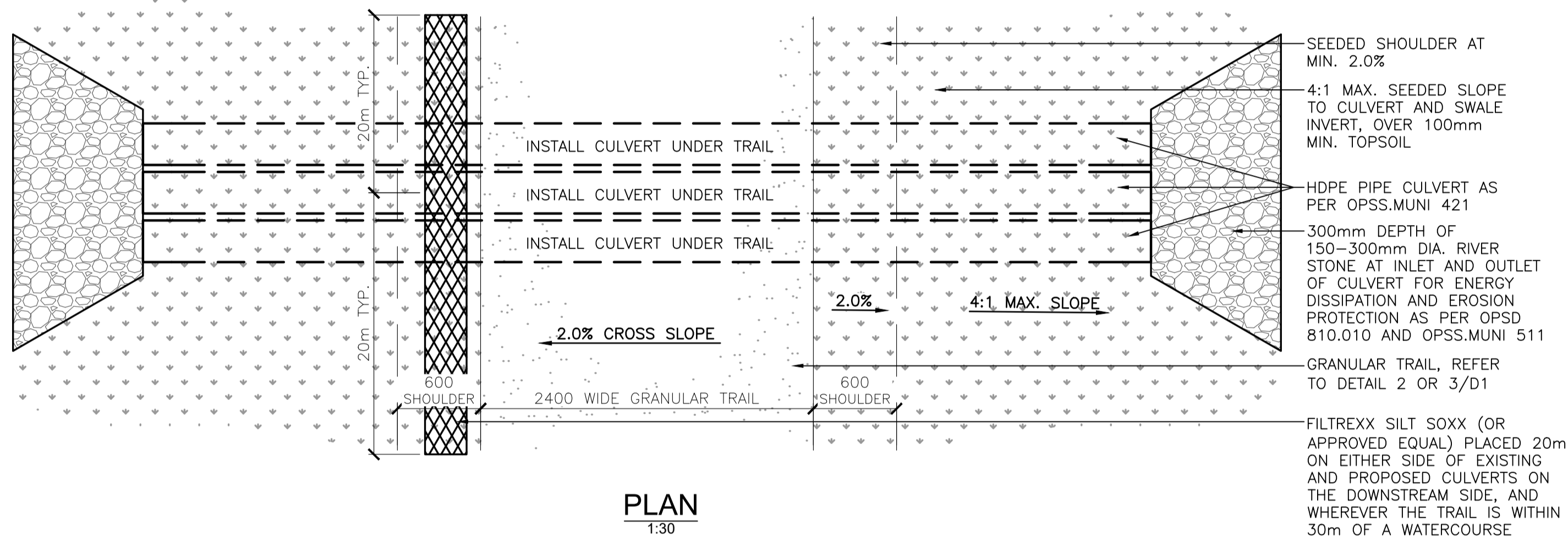
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OF

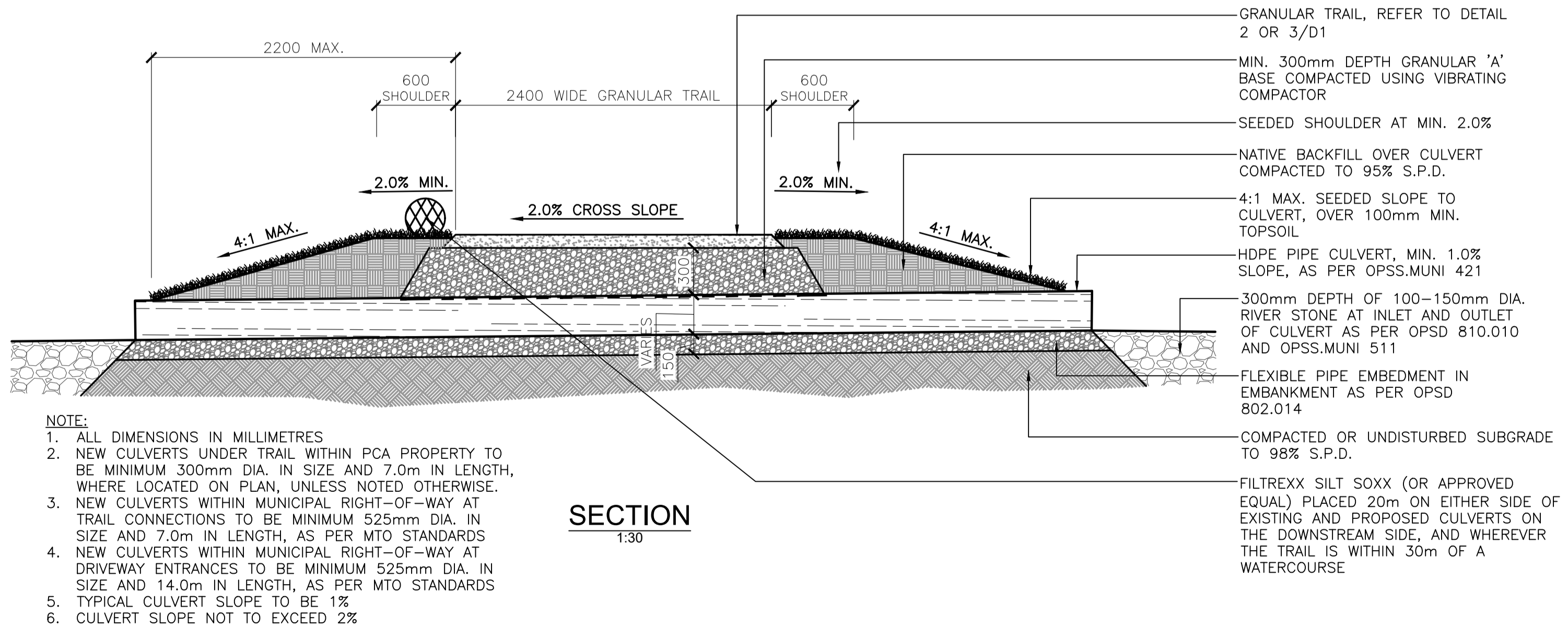
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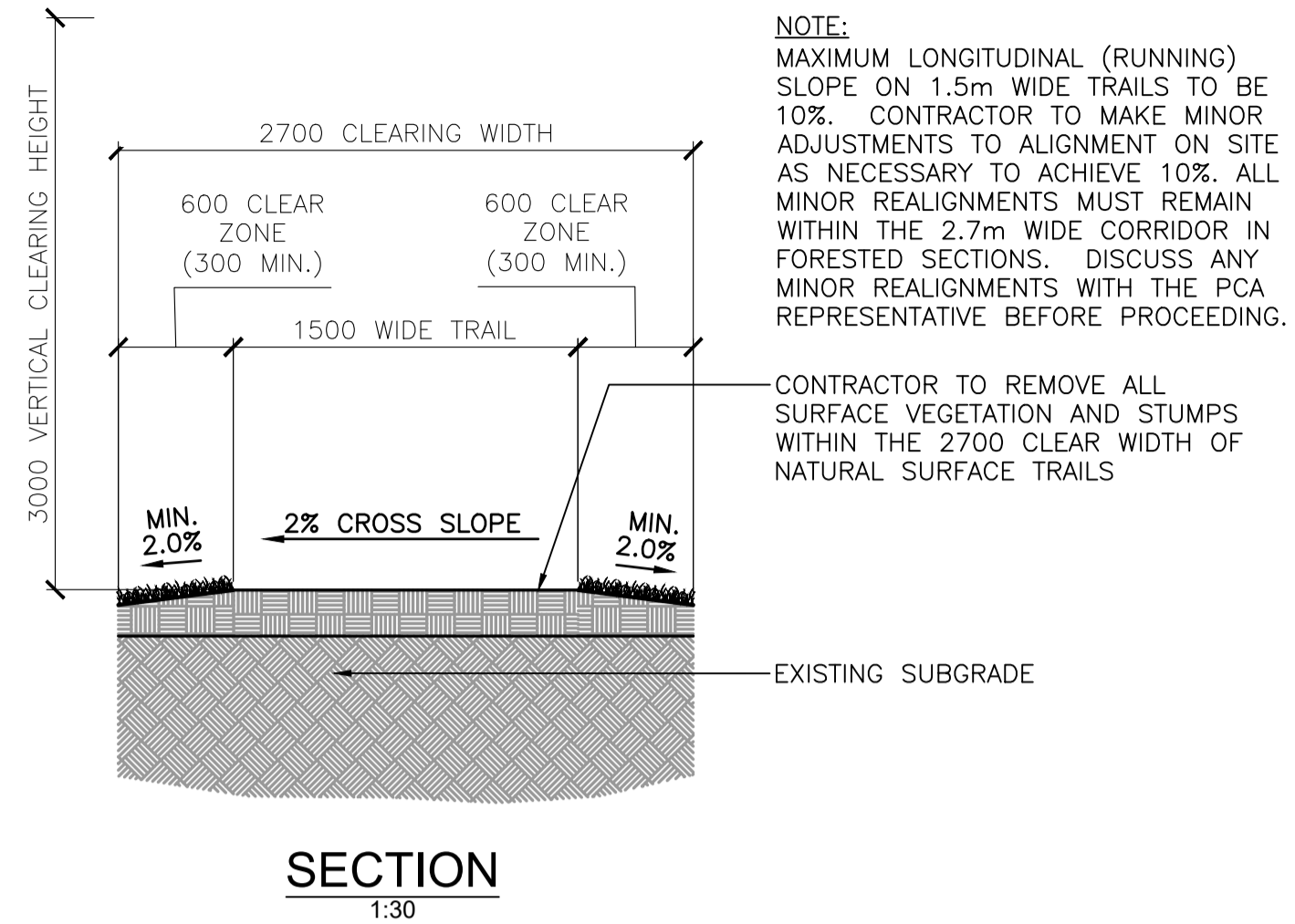
1 SINGLE CULVERT CROSSING 1:30



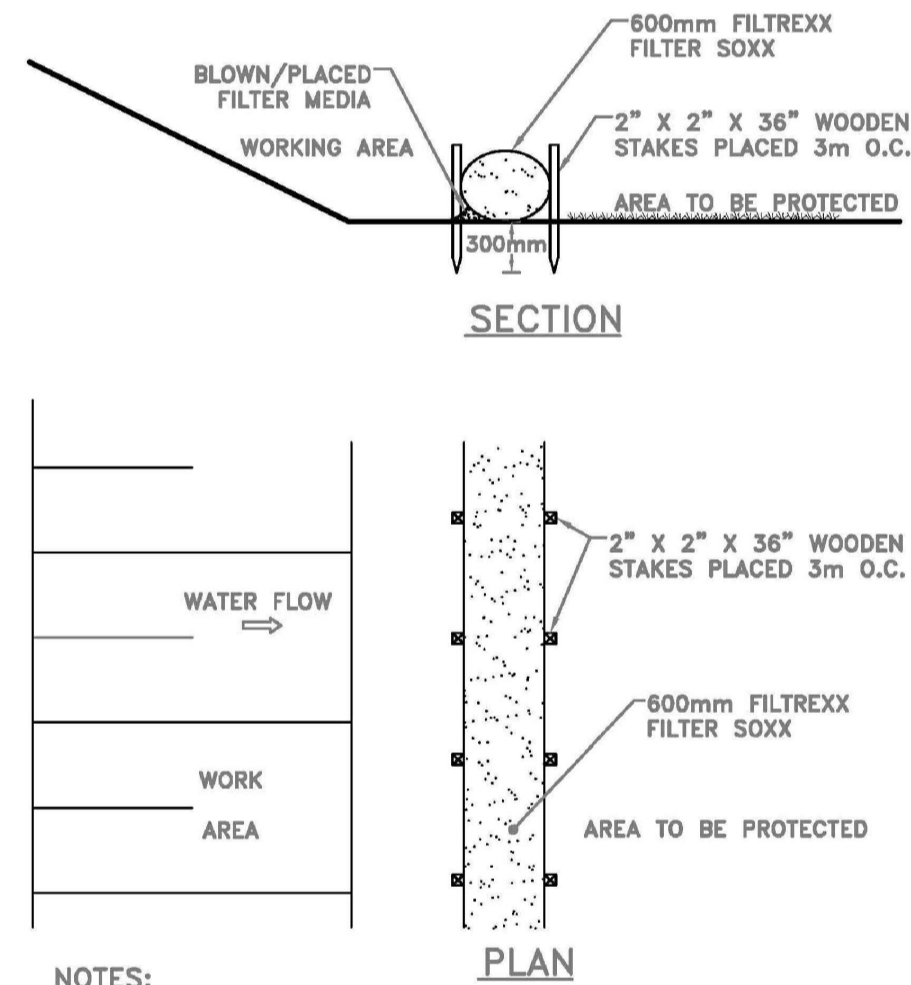
2 MULTIPLE CULVERT CROSSING 1:30



3 TYPICAL CULVERT CROSSING SECTION 1:30

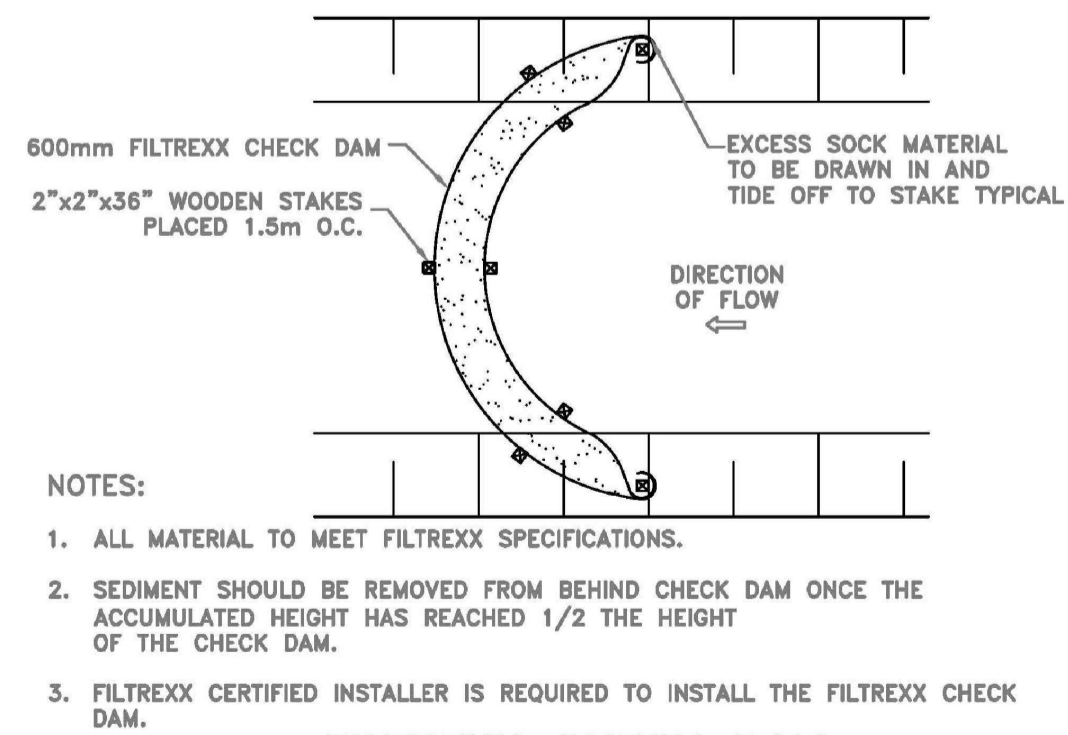


5 NATURAL TRAIL SURFACE 1:30



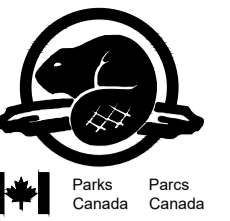
- NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
  2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
  3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

#### FILTREXX SEDIMENT CONTROL



#### FILTREXX CHECK DAM

4 SEDIMENT CONTROL - FILTREXX SOXX N.T.S.



#### PARKS CANADA ROUGE NATIONAL URBAN PARK

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A	A detail number	A
C	number du detail	B
	B source drawing no.	C
	de dessin no.	
	C detail on drawing no.	
	detail sur dessin no.	

project title titre du projet

#### NORTH EAST TRAIL

drawing title titre du dessin

#### LANDSCAPE DETAILS

designed by LB conçu par

drawn by LB dessiné par

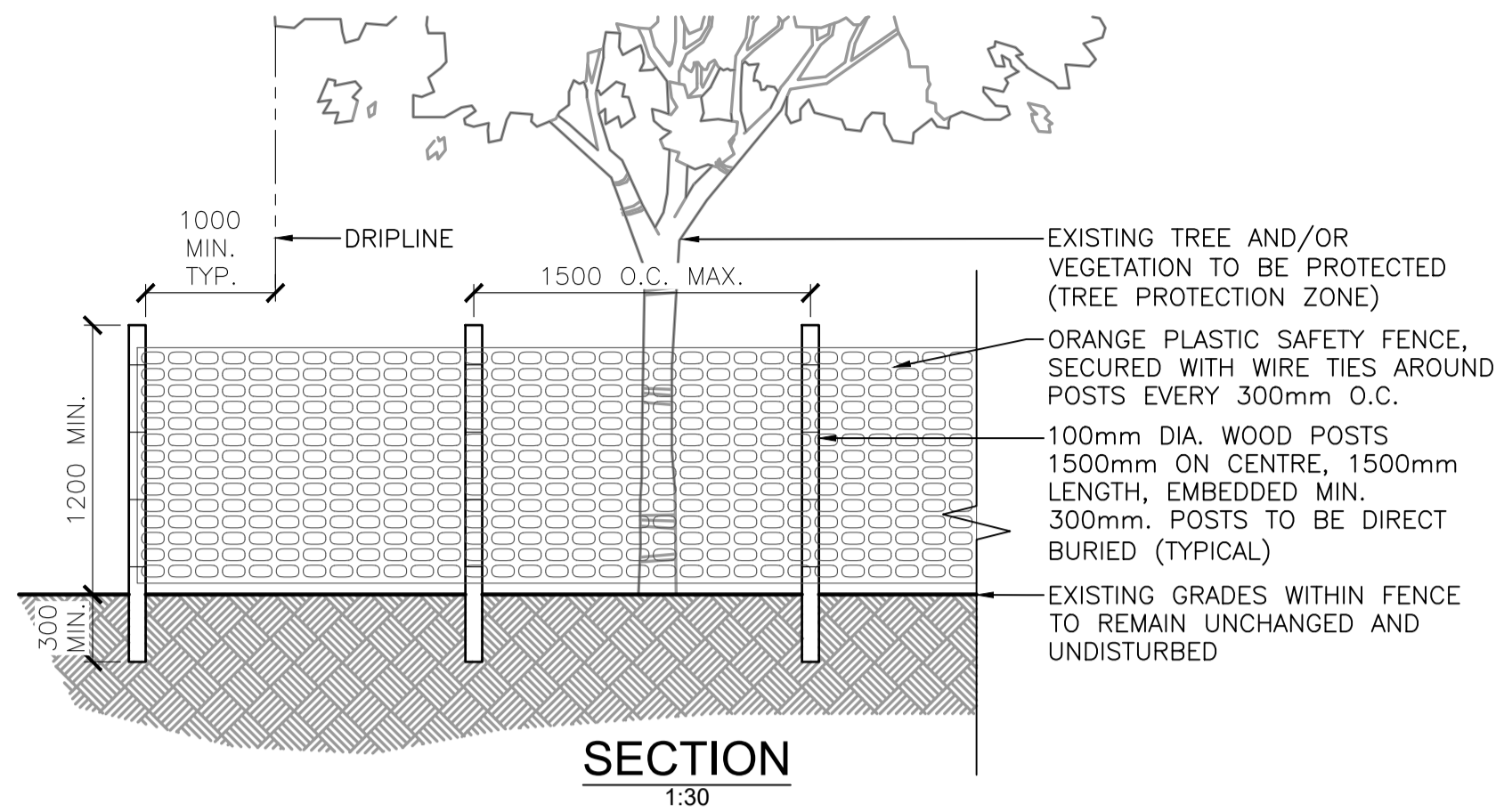
approved by EN approuvé par

Parks Canada Project Manager Administrateur de Projets Parcs Canada

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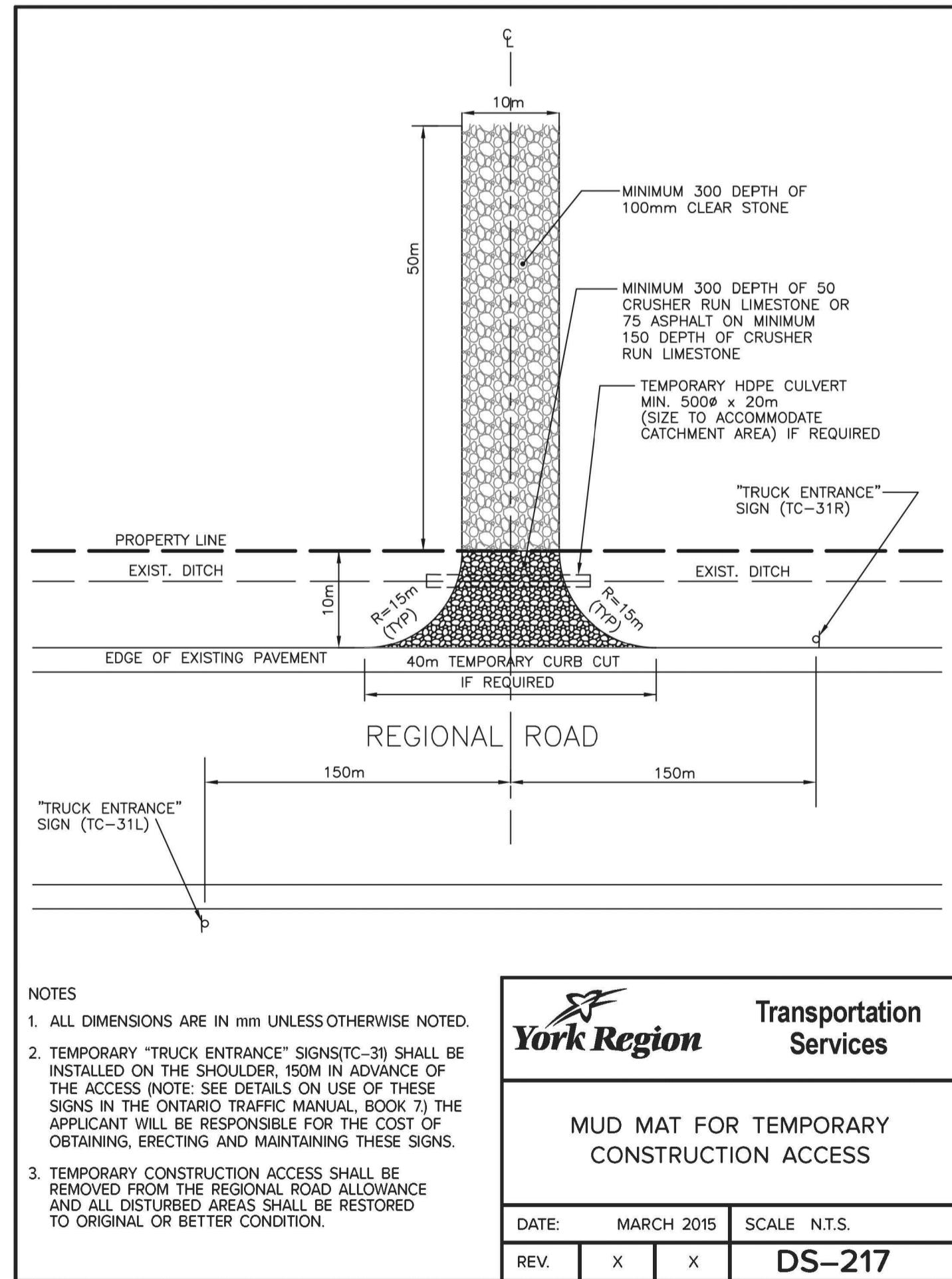
project no. 19-1500 projet no. D4

date OCTOBER 2019 date



- NOTES:**
1. ALL TREE PROTECTION FENCING SHALL BE MIN. 1200mm HIGH WITH WOODEN STAKES SPACED MAX. 1500mm APART, AND ORANGE PLASTIC SAFETY FENCE.
  2. ATTACHMENT OF FENCE TO TREES WILL NOT BE PERMITTED.
  3. UNDER NO CIRCUMSTANCES SHALL ANY CONSTRUCTION MATERIALS, EQUIPMENT OR VEHICLES BE PLACED WITHIN THE TREE PROTECTION ZONE.
  4. ALL TREE PROTECTION TO BE ERECTED PRIOR TO ANY CONSTRUCTION ACTIVITY AND IS TO REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED. OBTAIN WRITTEN APPROVAL FROM PCA REPRESENTATIVE PRIOR TO REMOVAL OF FENCING.

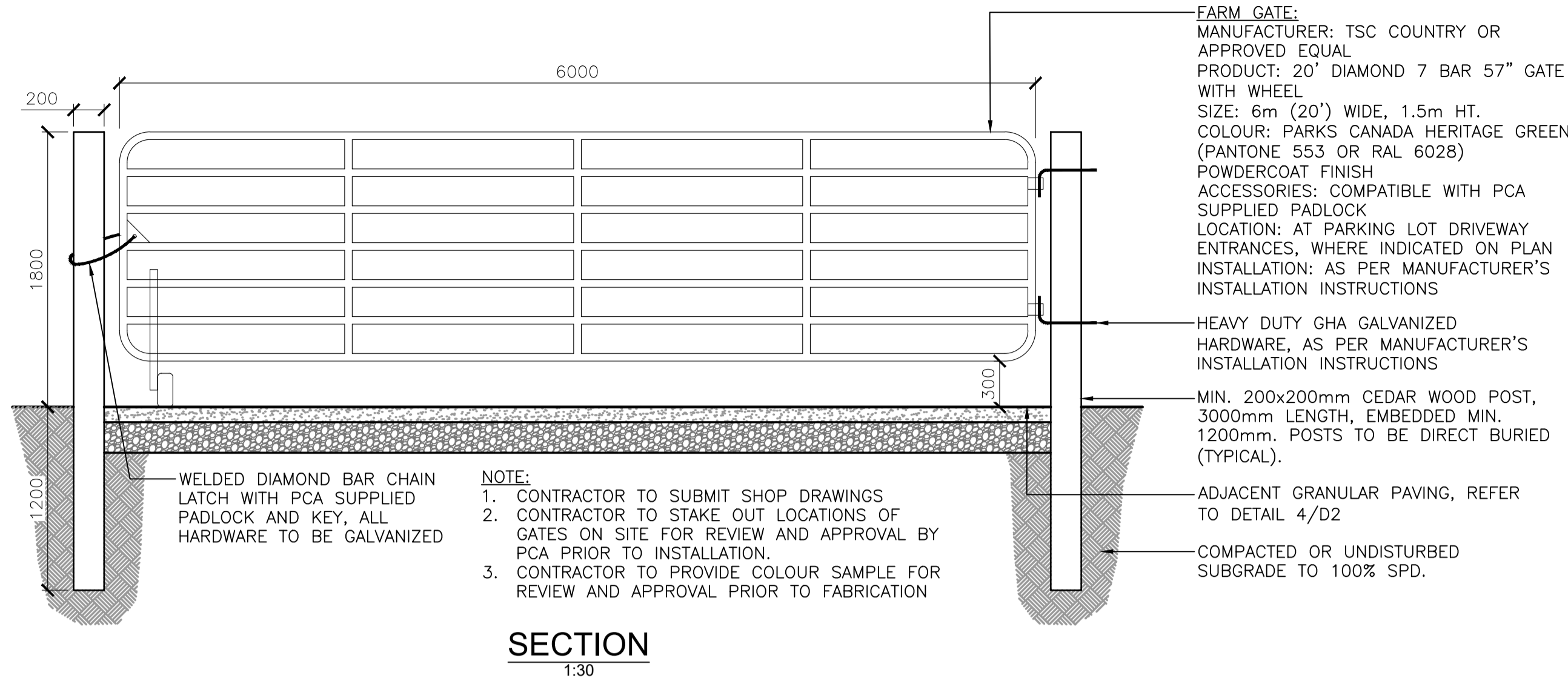
## 1 TREE PROTECTION FENCE



- NOTES**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
  2. TEMPORARY "TRUCK ENTRANCE" SIGNS (TC-31) SHALL BE INSTALLED ON THE SHOULDER, 150M IN ADVANCE OF THE ACCESS (NOTE: SEE DETAILS ON USE OF THESE SIGNS IN THE ONTARIO TRAFFIC MANUAL, BOOK 7) THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF OBTAINING, ERECTING AND MAINTAINING THESE SIGNS.
  3. TEMPORARY CONSTRUCTION ACCESS SHALL BE REMOVED FROM THE REGIONAL ROAD ALLOWANCE AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

<b>York Region</b>		<b>Transportation Services</b>	
<b>MUD MAT FOR TEMPORARY CONSTRUCTION ACCESS</b>			
DATE:	MARCH 2015	SCALE:	N.T.S.
REV.	X	X	DS-217

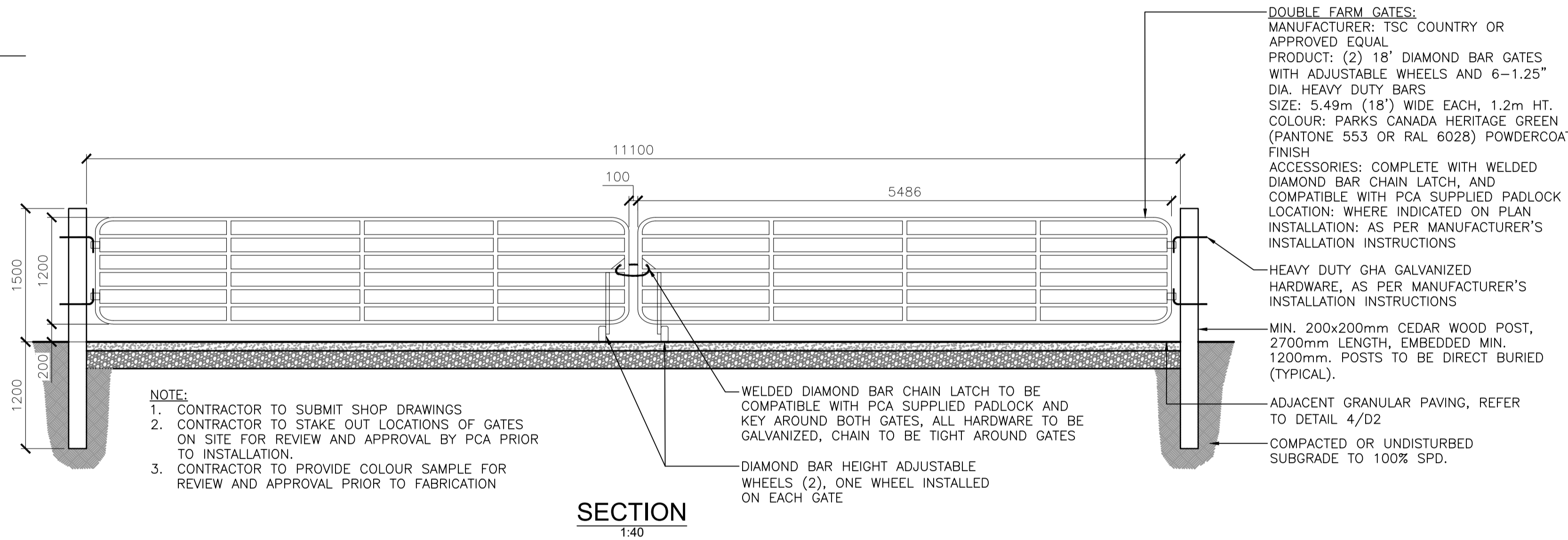
## 2 MUD MAT



- NOTE:**
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS
  2. CONTRACTOR TO STAKE OUT LOCATIONS OF GATES ON SITE FOR REVIEW AND APPROVAL BY PCA PRIOR TO INSTALLATION.
  3. CONTRACTOR TO PROVIDE COLOUR SAMPLE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION

## SECTION 1:30

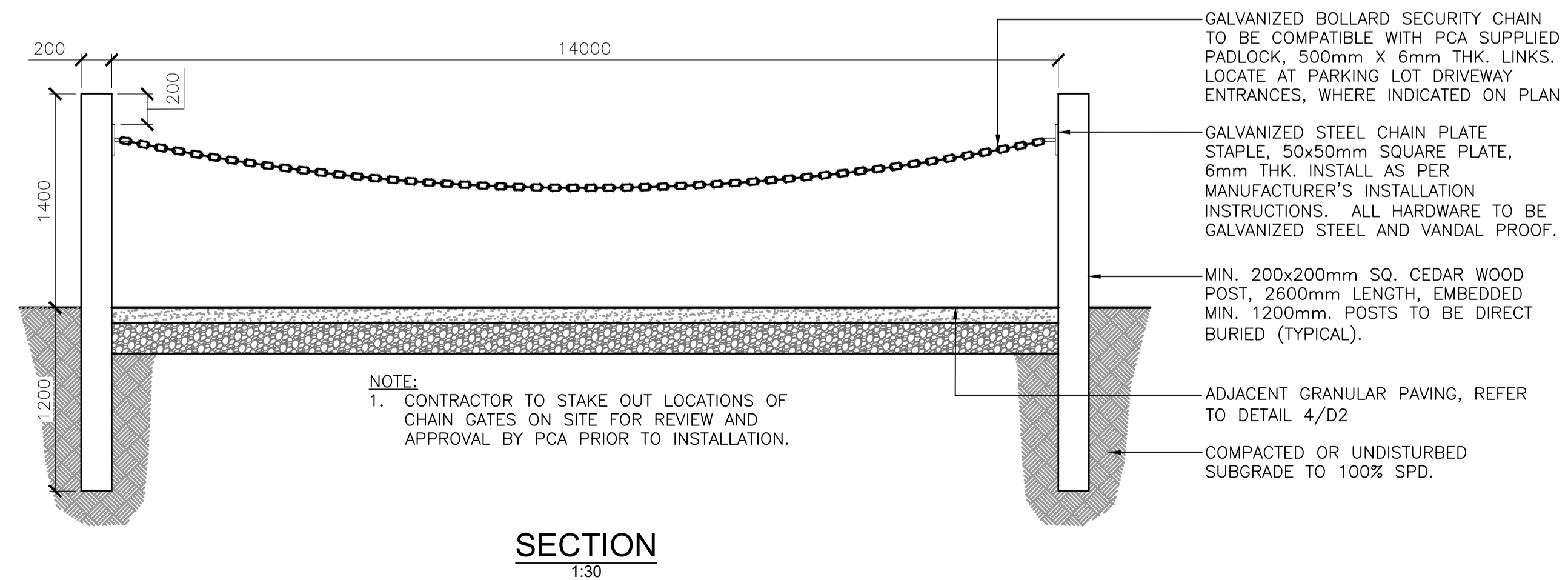
## 3 FARM GATE



- NOTE:**
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS
  2. CONTRACTOR TO STAKE OUT LOCATIONS OF GATES ON SITE FOR REVIEW AND APPROVAL BY PCA PRIOR TO INSTALLATION.
  3. CONTRACTOR TO PROVIDE COLOUR SAMPLE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION

## SECTION 1:40

## 4 DOUBLE FARM GATE



- NOTE:**
1. CONTRACTOR TO STAKE OUT LOCATIONS OF CHAIN GATES ON SITE FOR REVIEW AND APPROVAL BY PCA PRIOR TO INSTALLATION.

## SECTION 1:30

## 5 FARM ACCESS CHAIN CLOSURE



## PARKS CANADA ROUGE NATIONAL URBAN PARK

10725 Reesor Rd, Markham, ON L6B 1A8



REVISIONS	DESCRIPTION	DATE
5	ISSUED FOR TENDER	2021.01.29
4	ISSUED FOR 90% SUBMISSION	2020.11.30
3	ISSUED FOR 60% SUBMISSION	2020.10.16
2	REVIEW SUBMISSION	2020.03.27
1	ISSUED FOR 30% SUBMISSION	2019.11.20

A	A detail number number du detail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. detail sur dessin no.	C

project title titre du projet

## NORTH EAST TRAIL

drawing title titre du dessin

## LANDSCAPE DETAILS

designed by LB conçu par

drawn by LB dessiné par

approved by EN approuvé par

Parks Canada Project Manager Administrateur de Projets Parcs Canada

scale AS SHOWN échelle sheet 39 OF 49

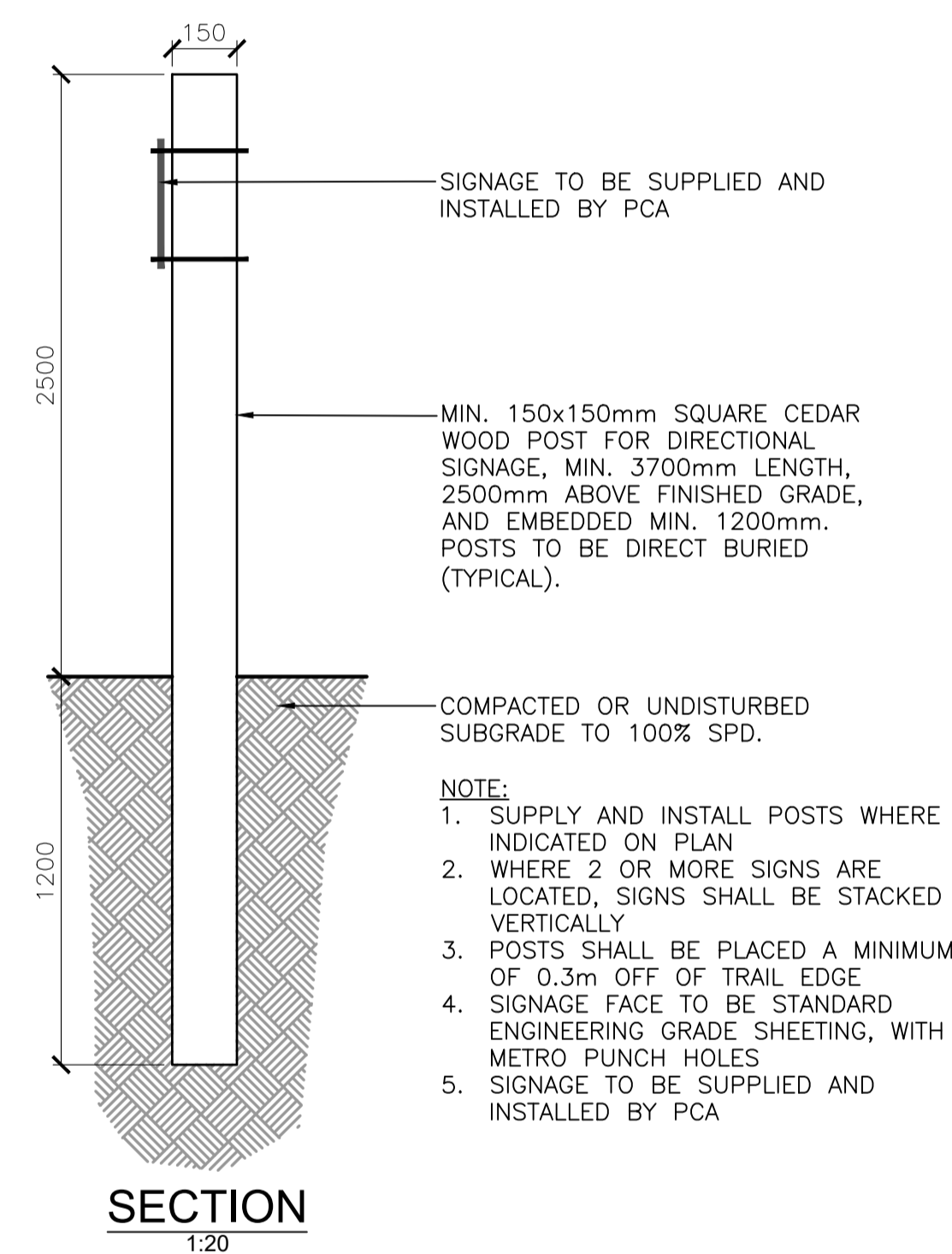
project no. 19-1500 projet no.




date OCTOBER 2019 date

D5

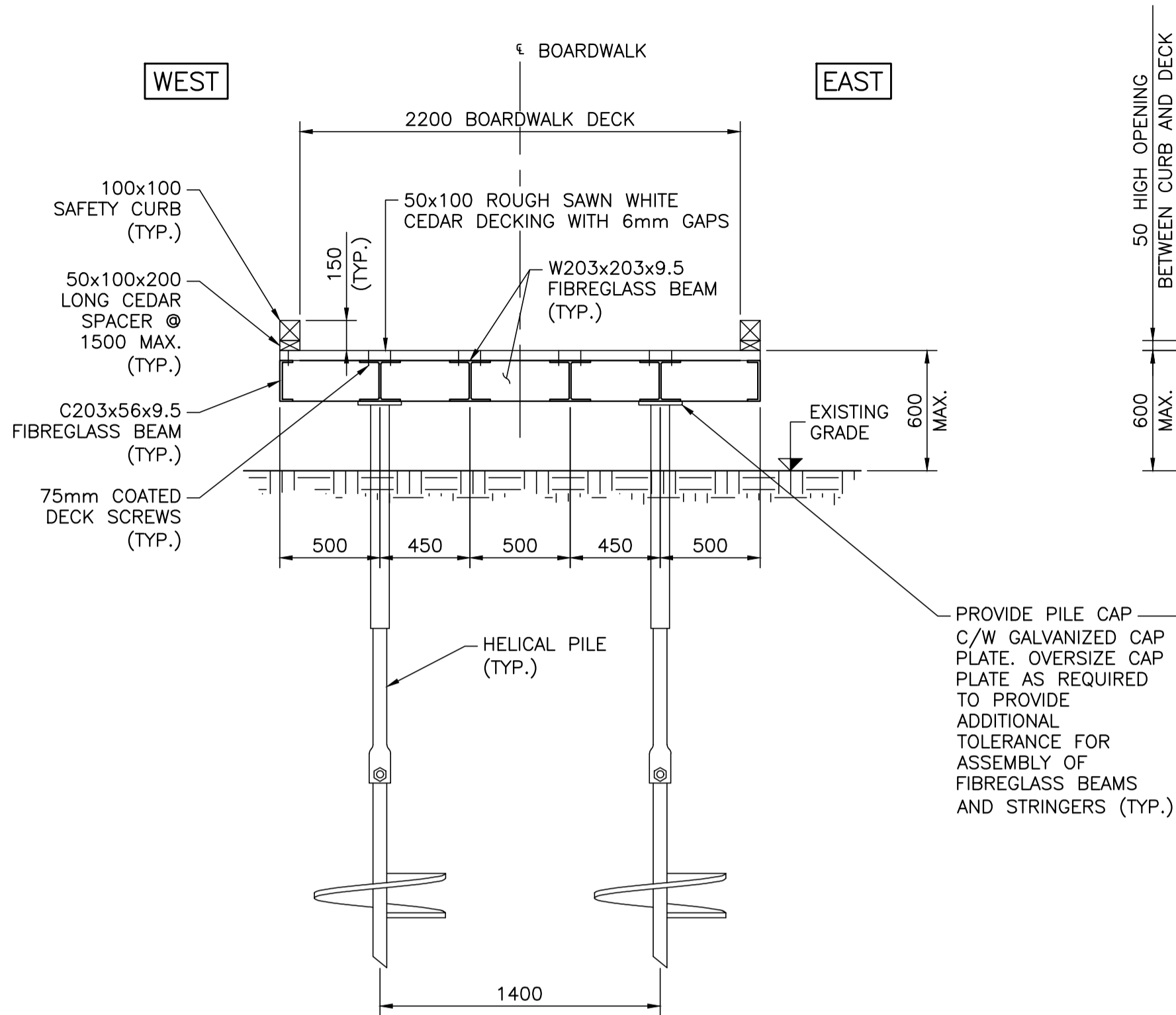


- 3 WOOD CHIP TRAIL  
1:30

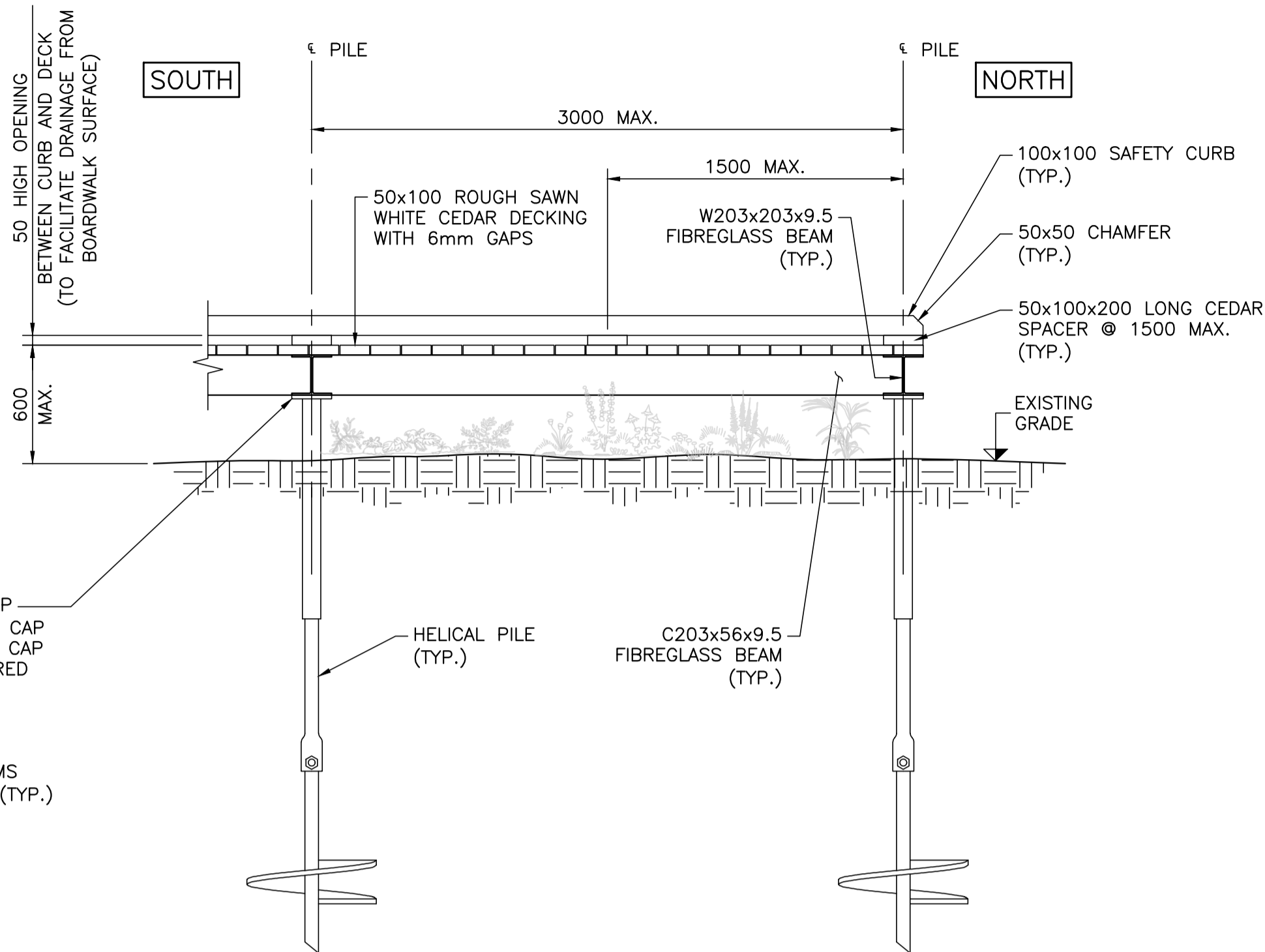


- |  |                           |  |  |
|--|---------------------------|--|--|
| <br>Parks Canada    Parcs Canada   |                           | Client                                 |  |
| <b>PARKS CANADA<br/>ROUGE NATIONAL URBAN PARK</b>  |                           |  |  |
| <b>10725 Reesor Rd, Markham, ON L6B 1A8</b>  |                           |  |  |
| Consultant   |                           | Consultant                             |  |
| <br><b>DILLON<br/>CONSULTING</b>  |                           |  |  |
| Stamp  |                           | North                                  |  |
|   |                           |  |  |
| <div></div>  |                           |  |  |
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| 5  | ISSUED FOR TENDER         | 2021.01.21                             |  |
| 4  | ISSUED FOR 90% SUBMISSION | 2020.11.30                             |  |
| 3  | ISSUED FOR 60% SUBMISSION | 2020.10.14                             |  |
| 2  | REVIEW SUBMISSION         | 2020.03.27                             |  |
| 1  | ISSUED FOR 30% SUBMISSION | 2019.11.20                             |  |
| REVISIONS  | DESCRIPTION               | DATE                                   |  |
| <div><div><div>A</div><div>C</div></div><div>A detail number<br/>number du détail</div><div>B</div><div>B source drawing no.<br/>de dessin no.</div><div>C</div><div>C detail on drawing no.<br/>détail sur dessin no.</div></div> |                           |  | <div><div><div>A</div><div>B</div><div>C</div></div></div> |
| project title  |                           | titre du projet                        |  |
| <b>NORTH EAST TRAIL</b>  |                           |  |  |
| drawing title  |                           | titre du dessin                        |  |
| <b>LANDSCAPE DETAILS</b>   |                           |  |  |
| designed by  |                           | conçu par                              |  |
| LB   |                           |  |  |
| drawn by   |                           | dessiné par                            |  |
| LB   |                           |  |  |
| approved by  |                           | approuvé par                           |  |
| EN   |                           |  |  |
| Parks Canada Project Manager   |                           | Administrateur de Projets Parcs Canada |  |
| scale  |                           | échelle                                |  |
| AS SHOWN   |                           |  |  |
| project no.  |                           | projet no.                             |  |
| 19-1500  |                           |  |  |
| date   |                           | date                                   |  |
| OCTOBER 2019   |                           |  |  |
|  |                           | sheet                                  |  |
|  |                           | 40                                     |  |
|  |                           | OF                                     |  |
|  |                           | 49                                     |  |
|  |                           | D6                                     |  |

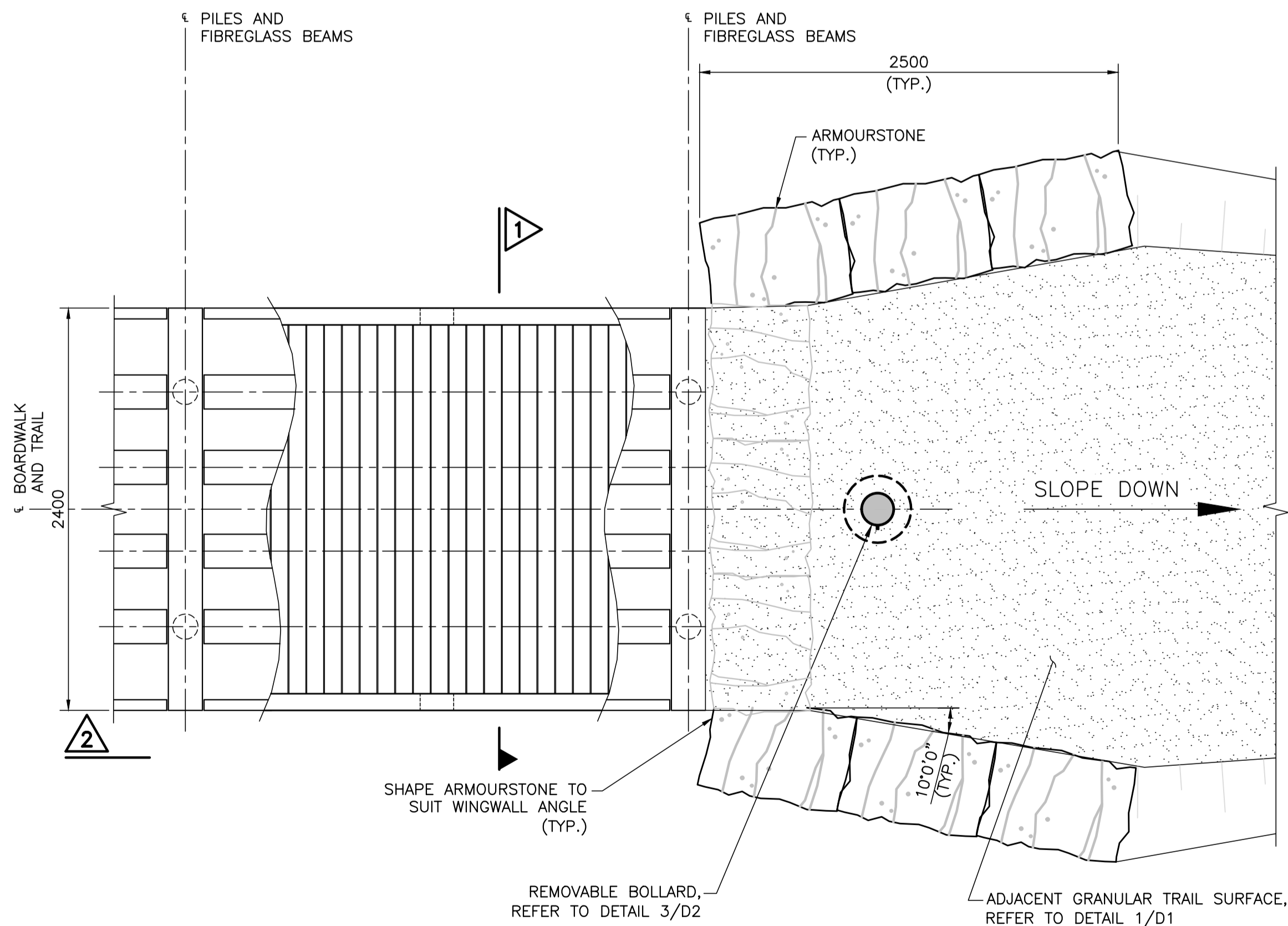
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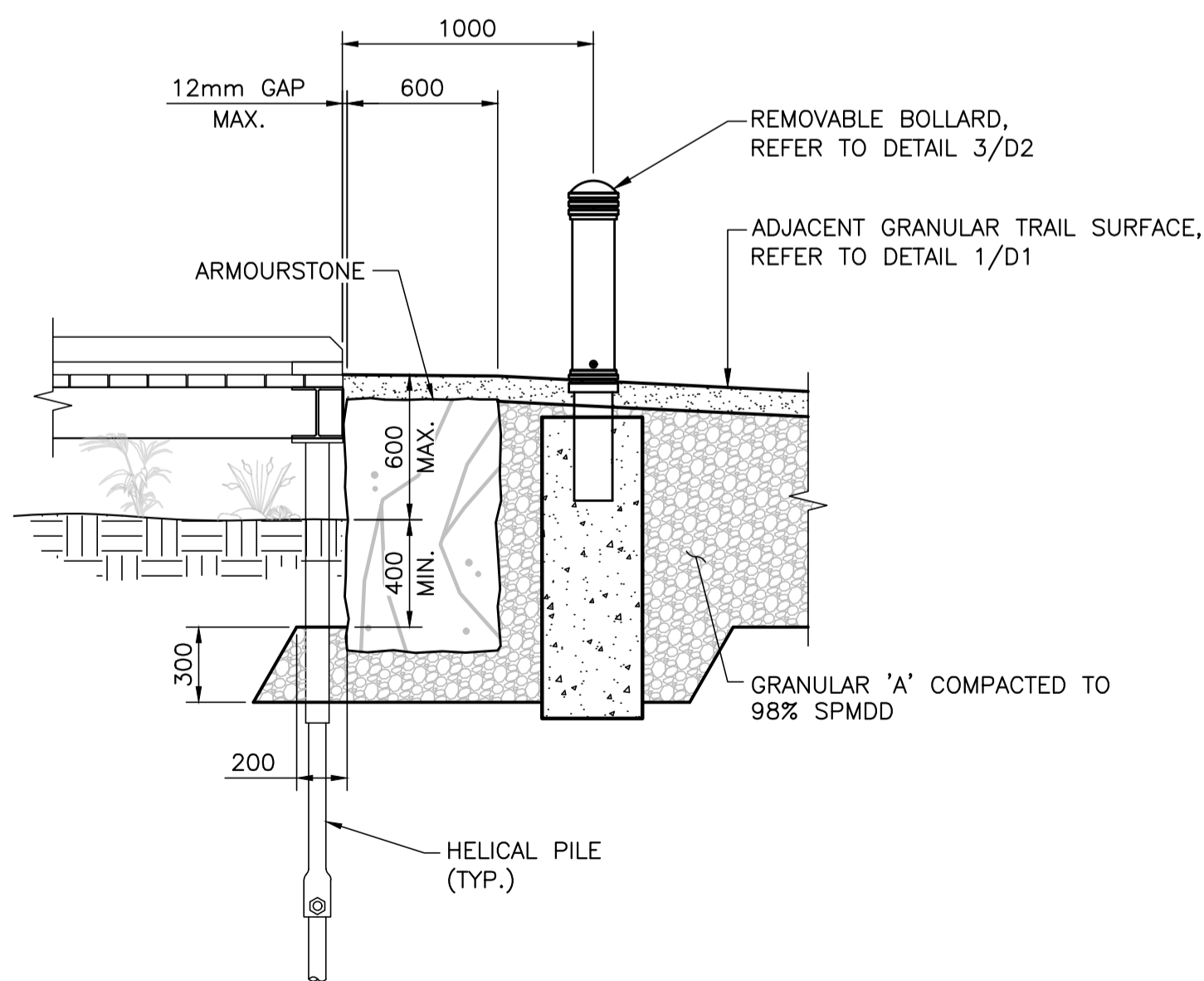
**1** TYPICAL BOARDWALK SECTION  
1:25



**2** TYPICAL BOARDWALK ELEVATION  
1:25



**TYPICAL ARMOURSTONE AND BOLLARD PLAN  
AT BOARDWALK ENDS**  
1:25



**TYPICAL ARMOURSTONE AND BOLLARD SECTION  
AT BOARDWALK ENDS**  
1:25

## GENERAL NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1 TO S10.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.
3. ALL STEEL MEMBERS, CONNECTION AND BOLTS, EXCEPT STAINLESS STEEL, SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

## HELICAL PILE NOTES

1. VERTICAL PILES SHALL BE ABLE TO CARRY 35 kN VERTICAL FORCE AND 5 kN LATERAL FORCE IN ULS.
2. VERTICAL PILES SHALL BE TESTED FOR 60 kN.
3. IF THE DESIGNED BRACKET DOES NOT FIT THE HELICAL PILE, INFORM THE ENGINEER.
4. AT LEAST TOP 2.5m OF HELICAL PILES SHALL BE MINIMUM HSS 141x7mm.
5. ALL HELICAL PILES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH CSA G164 WITH A MINIMUM COATING OF 600 G/M<sup>2</sup>.
6. CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING HANDLING, TRANSPORTATION AND ERECTION.
7. COMPLETE AS-BUILT SURVEY AFTER PILE INSTALLATION IS COMPLETE. PROVIDE FRP FABRICATOR WITH AS-BUILT SURVEY INFORMATION PRIOR TO FABRICATION OF FIBREGLASS BEAMS AND STRINGERS.

## CONCRETE NOTES

1. PERFORM CONCRETE WORK IN ACCORDANCE WITH CSA A23.1-09 AND TESTING TO CSA A23.2-09.
2. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
  - 2.1 STRENGTH AT 56 DAYS 35 MPa, CLASS C-1
  - 2.2 MAXIMUM COARSE AGGREGATE 19mm
  - 2.3 SLUMP 50-75mm
  - 2.4 ENTRAINED AIR 5-8%
3. UNLESS OTHERWISE NOTED, THE CONCRETE COVER TO REINFORCING STEEL TO BE 75mm.
4. SUBMIT CONCRETE MIX DESIGN PRIOR TO PLACING ANY CONCRETE.
5. FINISHING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1-09.
6. CONCRETE FORMWORK AND FALSEWORK MATERIALS SHALL CONFIRM TO CSA A23.1-09. USE ONLY NEW FORMWORK FOR ALL EXPOSED SURFACES.
7. THE CONTRACTOR SHALL RETAIN A MATERIAL TESTING COMPANY TO UNDERTAKE FIELD SLUMP AND AIR TESTS FOR EACH CONCRETE PLACEMENT. INTERVALS OF CONCRETE TESTING AS PER CAN/CSA-A23.1 AND CAN/CSA-A23.2. THE MATERIAL TESTING COMPANY SHALL ALSO TAKE FIELD CYLINDERS TO DETERMINE THE CONCRETE COMPRESSIVE STRENGTH AT 7, 28, AND 56 DAYS AT A MINIMUM.
8. INSPECTION AND TESTING OF CONCRETE SHALL BE IN ACCORDANCE WITH CAN/CSA-A23.1 AND CAN/CSA-A23.2.

## WOOD NOTES

1. ALL WOODEN MEMBERS SHALL BE SS GRADE.
2. ALL BOARDWALK SURFACES SHALL BE ROUGH SAWN ONTARIO WHITE CEDAR.
3. ALL RAILINGS SHALL BE ROUGH SAWN ONTARIO WHITE CEDAR.
4. TOP RAILINGS SHALL BE SANDED.
5. ALL ROUGH SAWN LUMBER TO BE FULL DIMENSIONAL SIZES.
6. NO DISCREPANCY IN THE THICKNESS OF DECK BOARDS.

## STAINLESS STEEL NOTES

1. TYPE 316 STAINLESS STEEL SHALL BE USED.

## FIBREGLASS NOTES

1. PROVIDE STAMPED SHOP DRAWINGS.
2. CONNECTION DETAILS SHALL BE DESIGNED BY FABRICATOR. ALL NON-FIBREGLASS PARTS SHALL BE GALVANIZED STEEL.
3. FIBREGLASS BEAM AND STRINGER LAYOUT SHALL BE BASED ON AS-BUILT LOCATIONS OF HELICAL PILES

## ARMOURSTONE NOTES

1. 1000mm (HT.) x 600mm (W) x 1000mm (L) SQUARE CUT NATURAL QUARRIED LIMESTONE ARMOURSTONE, LIGHT GREY/BUFF/BROWN COLOUR, AS SUPPLIED BY OWEN SOUND LEDGEROCK OR APPROVED EQUAL.
2. ALL EXPOSED SIDES TO BE NATURAL SPLIT FACED. ALL ABUTTING SIDES TO BE NATURAL SPLIT FACED, TOP TO BE SAWCUT/GUILLOTINED, ±6mm TOLERANCE TO PREVENT TRIP HAZARDS, WITH FLAME FINISH. SET TOP TO BE FLUSH WITH TOP OF TIMBER DECK.
3. JOINTS/GAPS NOT TO EXCEED 12mm.
4. FINAL MATERIAL TO BE APPROVED AT THE SOURCE BY CONSULTANT AND PCA PRIOR TO INSTALLATION.
5. LOCATION TO BE STAKED OUT ON SITE FOR REVIEW AND APPROVAL BY PCA PRIOR TO INSTALLATION.

## LIST OF STRUCTURAL DRAWINGS

- |    |  |
|----|--|
| S1 | GENERAL NOTES AND TYPICAL DETAILS                  |
| S2 | BOARDWALK DETAILS - BW1                            |
| S3 | BOARDWALK DETAILS - BW2                            |
| S4 | BOARDWALK DETAILS - BW4                            |
| S5 | STRUCTURE SUMMARY TABLE AND BEAM CONNECTION DETAIL |
| S6 | STAIRCASE #1 LAYOUT & DETAILS                      |
| S7 | STAIRCASE #3 LAYOUT & DETAILS                      |
| S8 | STAIRCASE #4 LAYOUT & DETAILS                      |
| S9 | STAIRCASE #5 LAYOUT & DETAILS                      |



Parks Canada

Client  
**PARKS CANADA  
ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant

**DILLON  
CONSULTING**



Stamp

3	ISSUED FOR TENDER SUBMISSION	2021.01.29
2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16

REVISIONS	DESCRIPTION	DATE
A	A detail number number du détail	
B	B source drawing no. de dessin no.	
C	C detail on drawing no. détail sur dessin no.	

project title  
**NORTH EAST TRAIL**

drawing title  
**BOARDWALK GENERAL NOTES  
AND TYPICAL DETAILS**

designed by  
**M. J. HAYMAN, P.ENG.**

drawn by  
**R. J. DUCHESNE**

approved by

Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

scale  
**AS SHOWN**

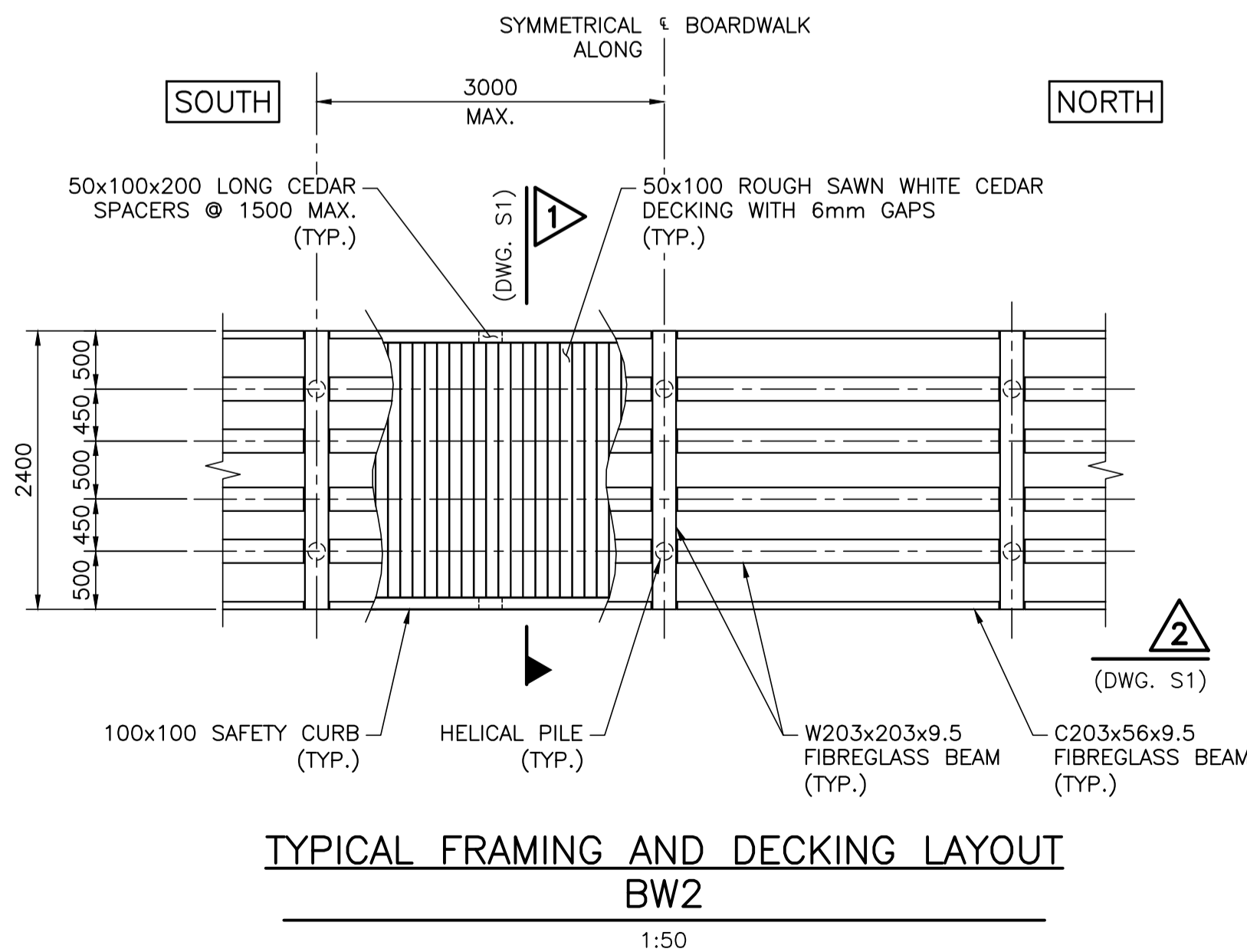
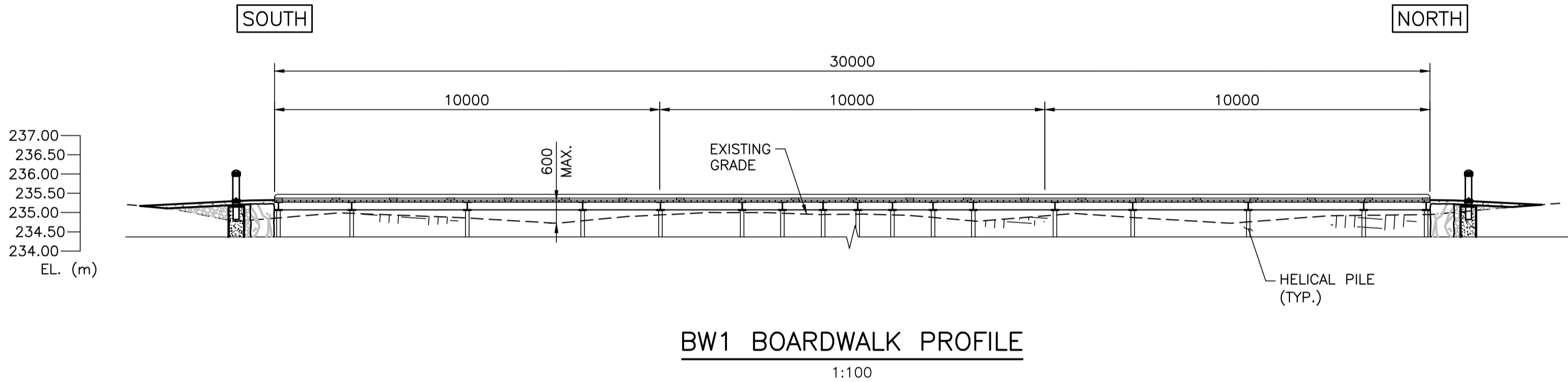
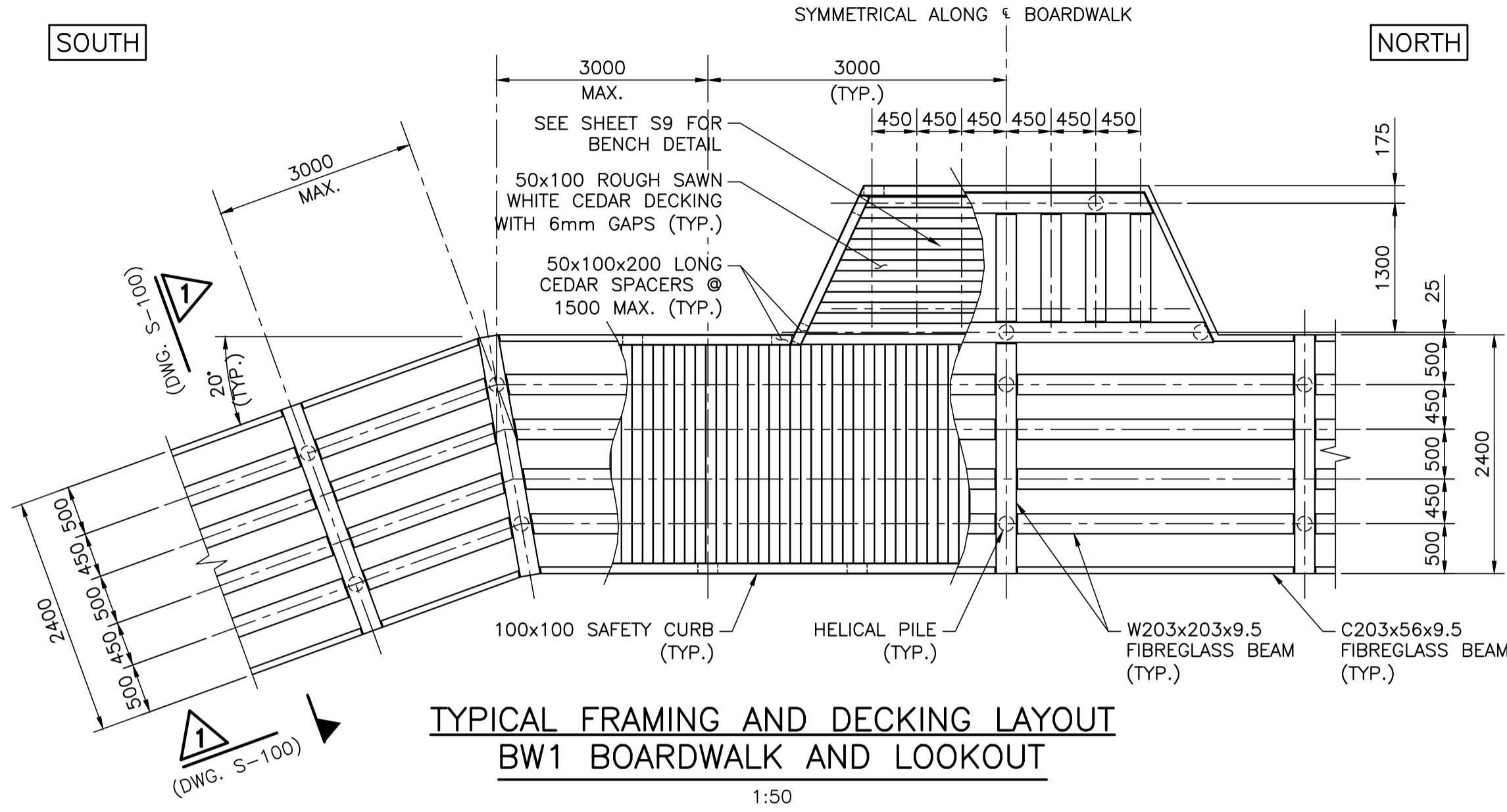
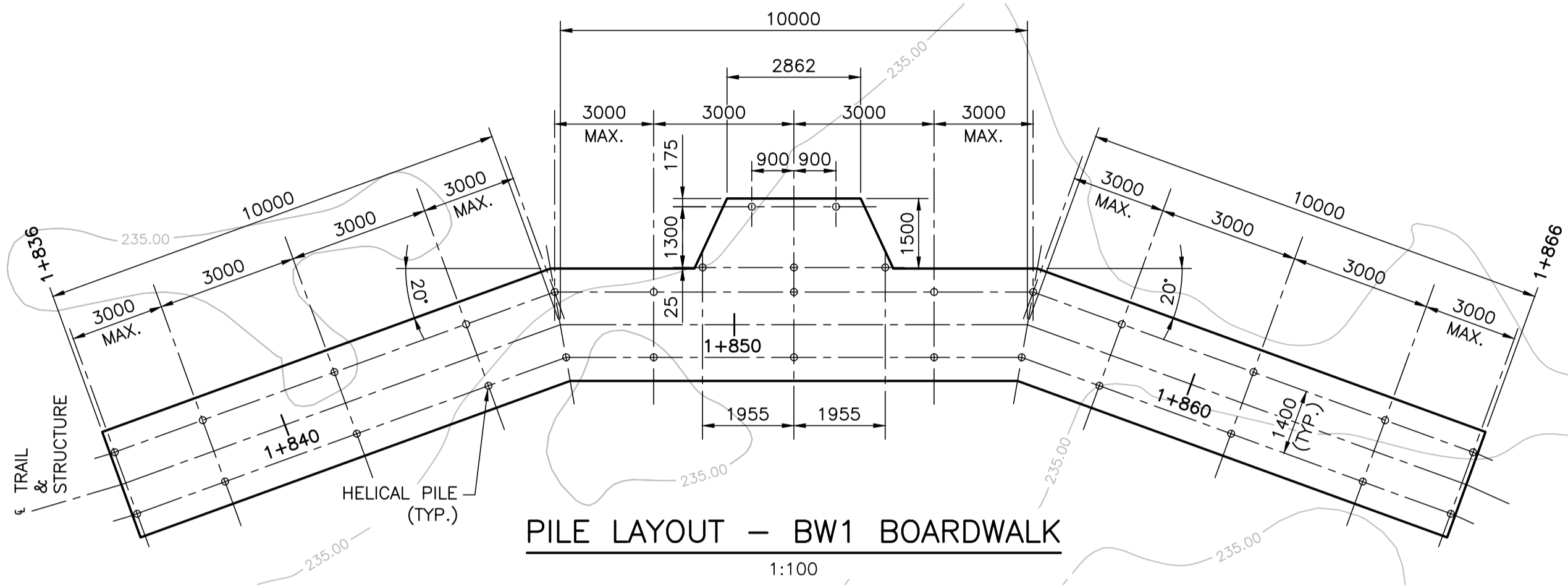
project no.  
**19-1500**

date

sheet  
**S1**

41 OF 49

DRAWING NOT TO BE SCALED  
100 mm ON ORIGINAL DRAWING



1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1 AND S3 TO S8.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.



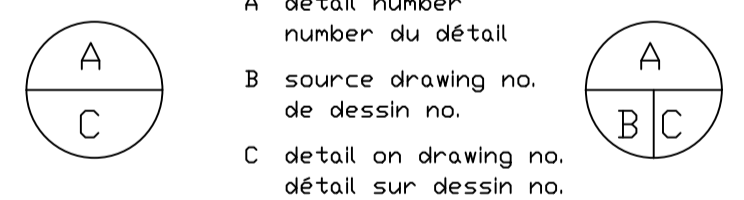
Client Client

# PARKS CANADA ROUGE NATIONAL URBAN PARK

**10725 Reesor Rd, Markham, ON L6B 1A8**



3	ISSUED FOR TENDER SUBMISSION	2021.01.29
2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16
REVISIONS	DESCRIPTION	DATE



project title	titre du projet
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## NORTH EAST TRAIL

drawing title	titre du dessin
---------------	-----------------

## BOARDWALK DETAILS

### BW1

designed by conçu par  
**M. J. HAYMAN, P.ENG.**

drawn by **R. J. DUCHESNE** dessiné par

approved by	approuvé par
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Parks Canada Project Manager	Administrateur de Projets Parcs Canada
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scale	échelle	sheet	feuille
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AS SHOWN		S2	
project no.	19-1500		project no.
date			date

42 OF 49

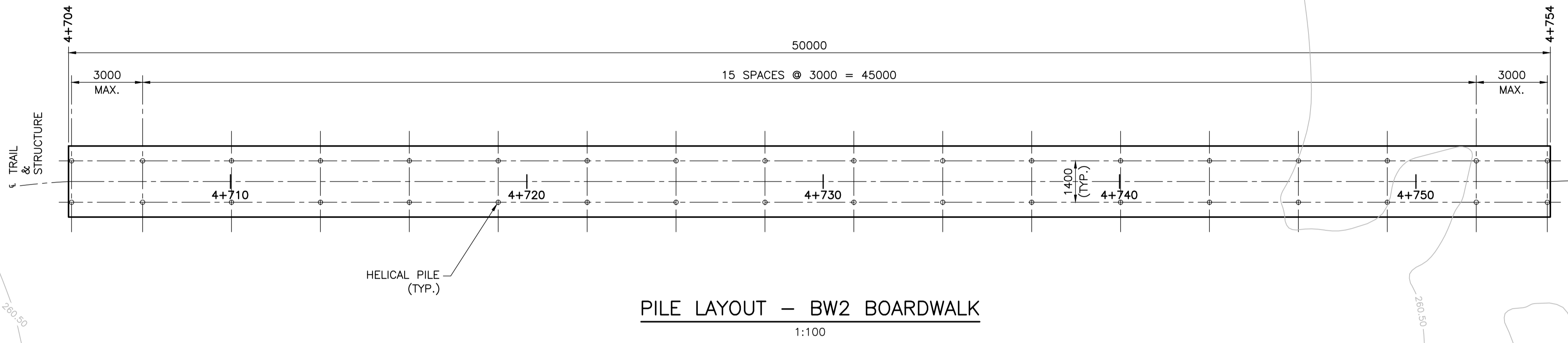
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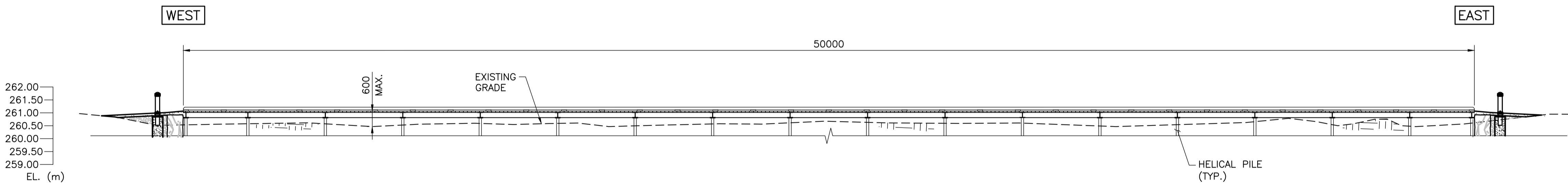


NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1, S2 AND S4.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.



PILE LAYOUT – BW2 BOARDWALK  
1:100



BW2 BOARDWALK PROFILE  
1:100



Client  
**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8



REVISIONS	DESCRIPTION	DATE
3	ISSUED FOR TENDER SUBMISSION	2021.01.29
2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16

A	A detail number number du détail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. détail sur dessin no.	C

project title  
titre du projet

**NORTH EAST TRAIL**

drawing title  
titre du dessin

**BOARDWALK DETAILS  
BW2**

designed by  
conçu par  
**M. J. HAYMAN, P.ENG.**

drawn by  
dessiné par  
**R. J. DUCHESNE**

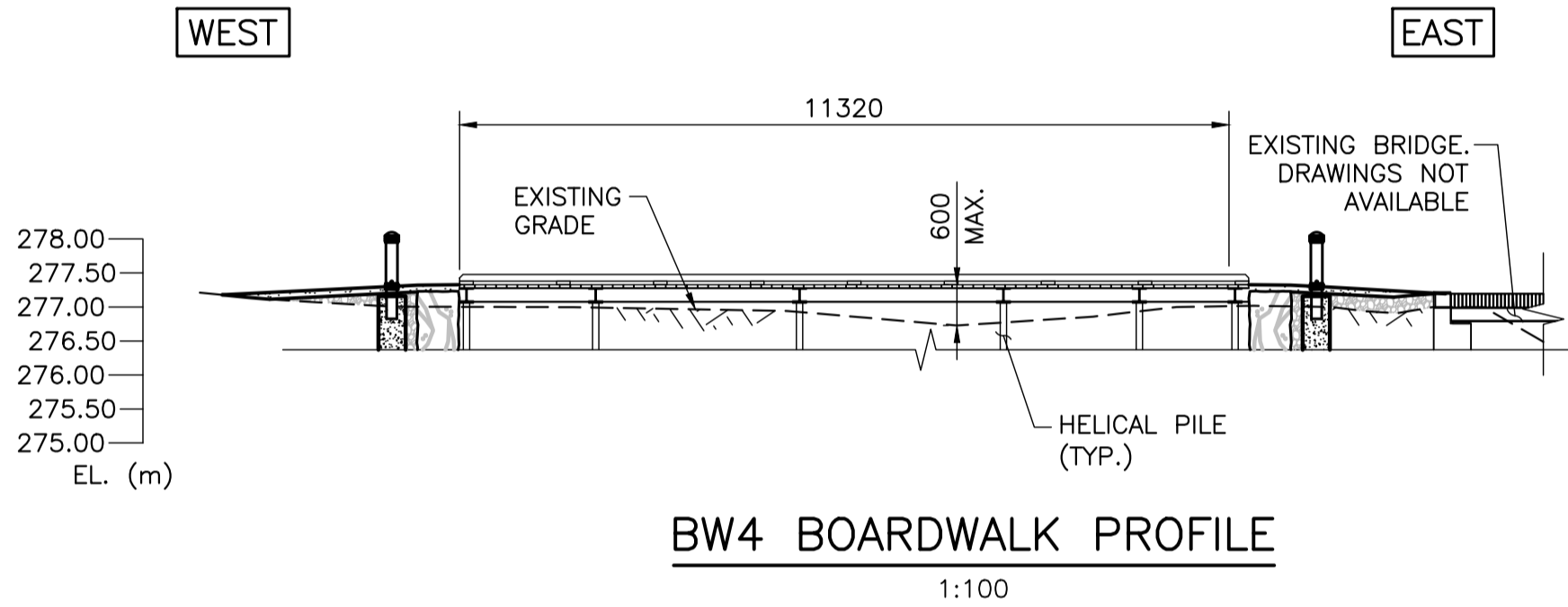
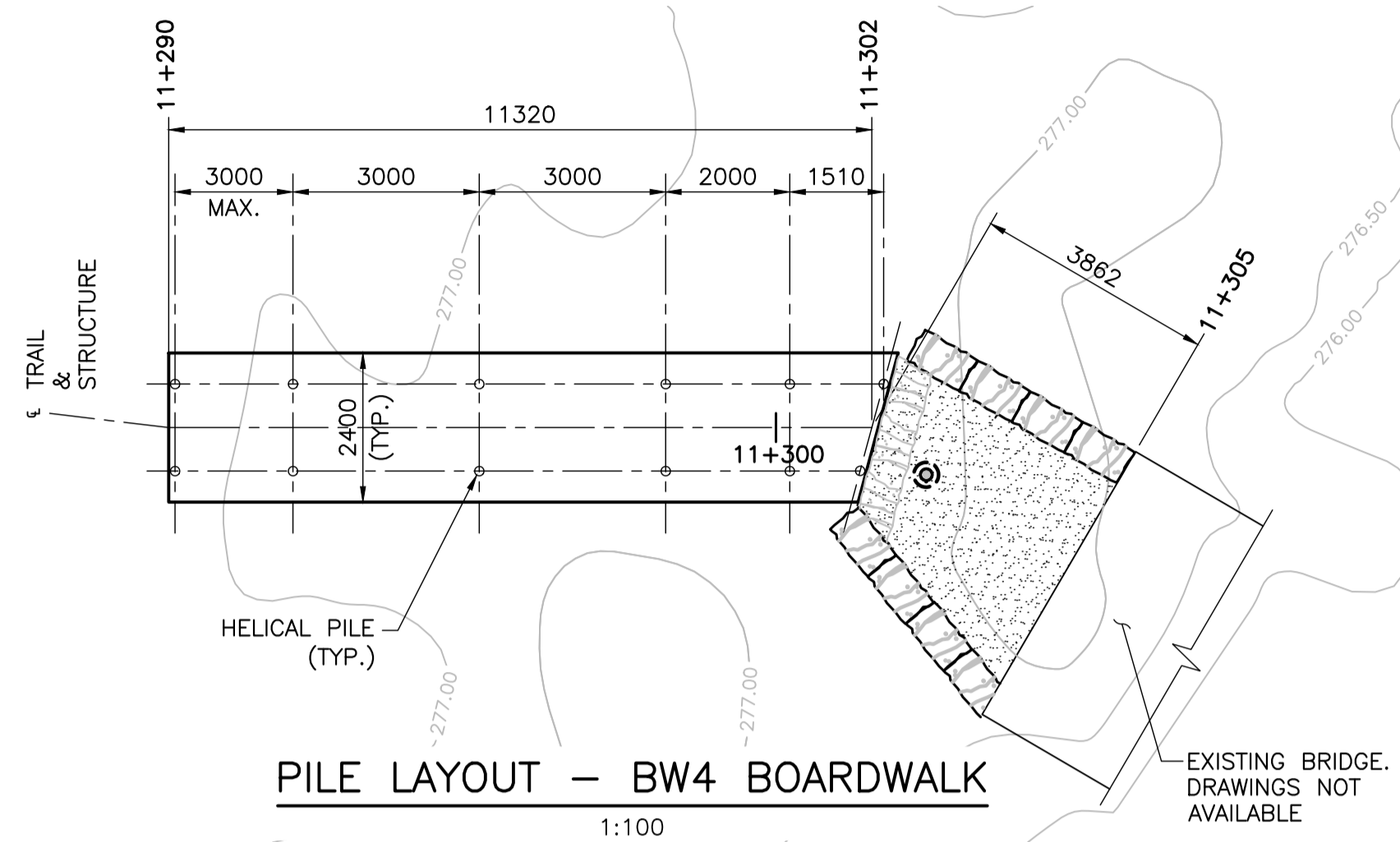
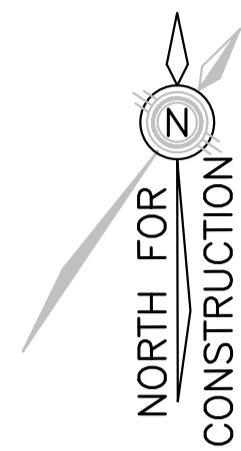
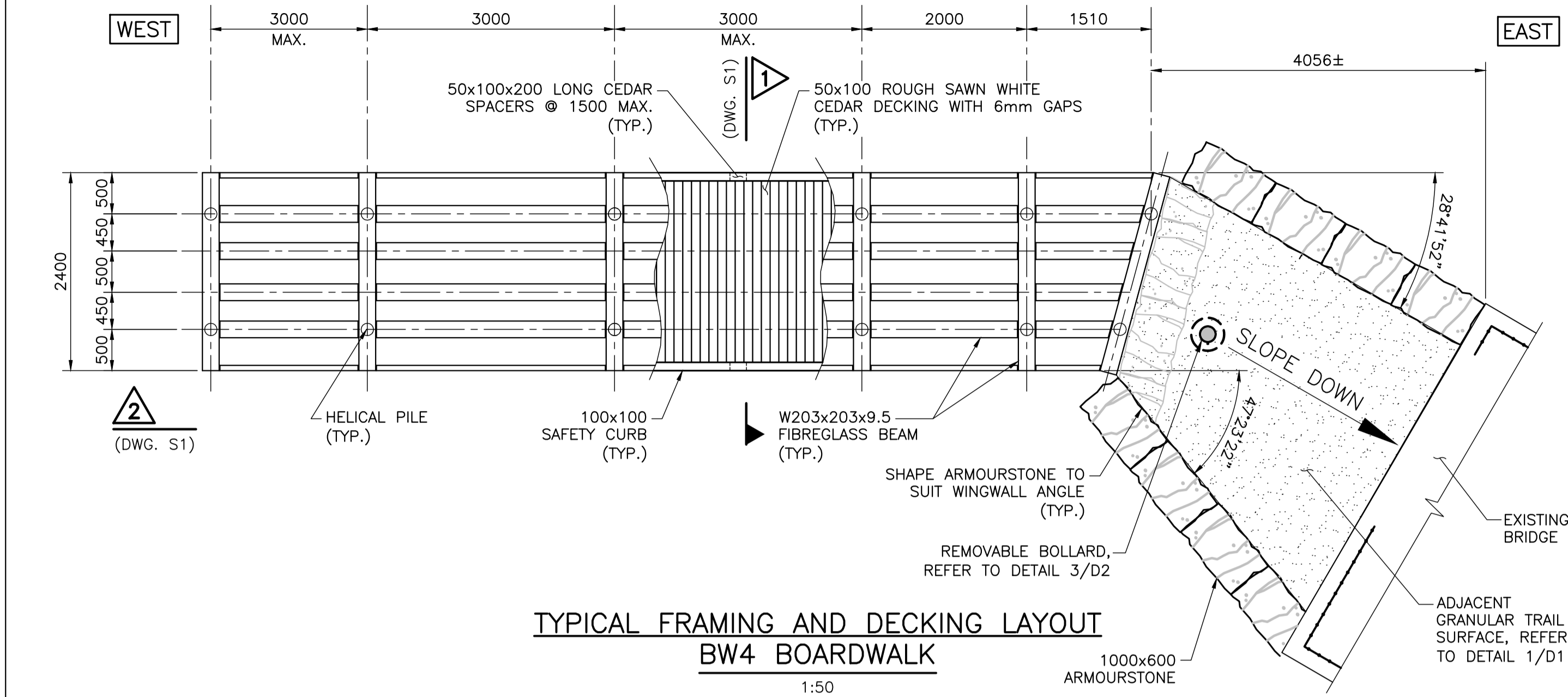
approved by  
approuvé par

Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

scale échelle	AS SHOWN	sheet feuille	<b>S3</b> 43 OF 49
project no. projet no.	19-1500		
date			

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## NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1 TO S3.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.



Client  
**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8



REVISIONS	DESCRIPTION	DATE
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2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16

A	A detail number number du détail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. détail sur dessin no.	C

project title  
**NORTH EAST TRAIL**  
titre du projet

drawing title  
**BOARDWALK DETAILS  
BW4**  
titre du dessin

designed by  
**M. J. HAYMAN, P.ENG.**  
conçu par

drawn by  
**R. J. DUCHESNE**  
dessiné par

approved by  
  
approuvé par

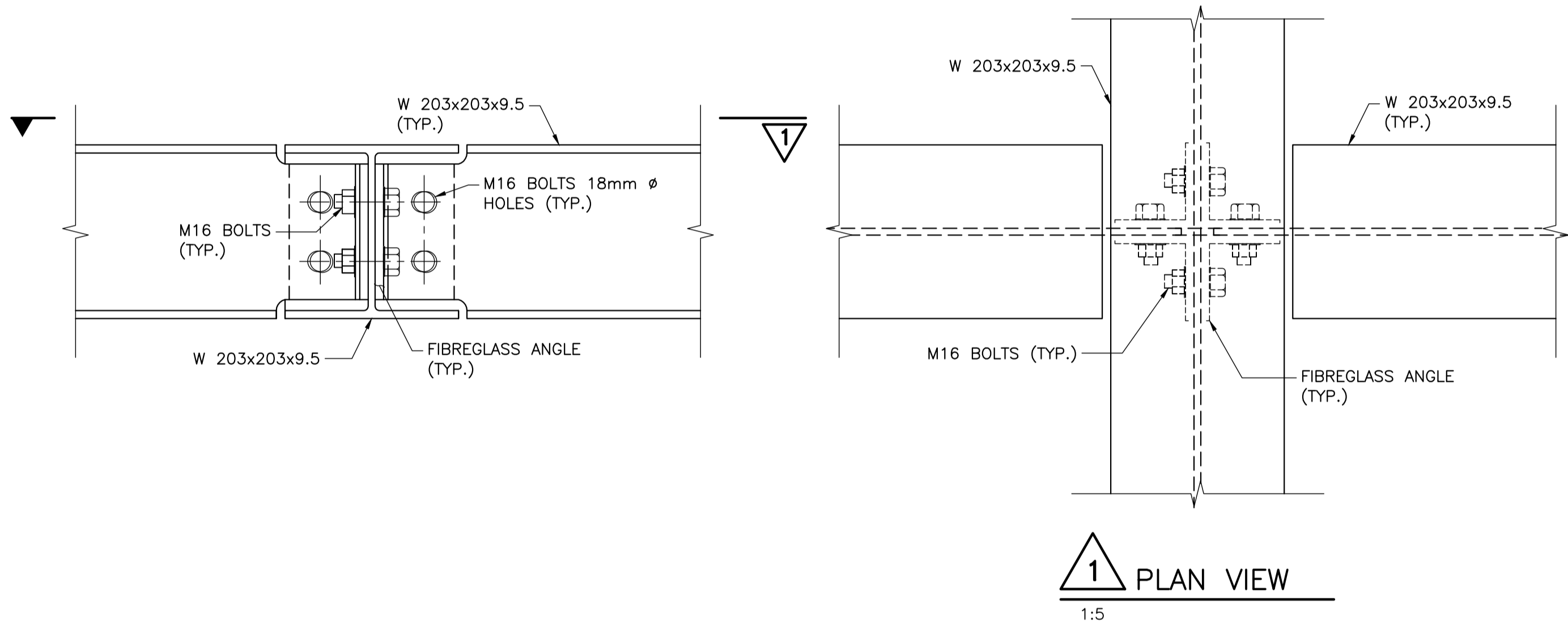
Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

scale <b>AS SHOWN</b>	échelle  	sheet <b>S4</b>	feuille <b>44 OF 49</b>
project no. <b>19-1500</b>	projet no.  	date  	date  

DRAWING NOT TO BE SCALED  
100 mm ON ORIGINAL DRAWING

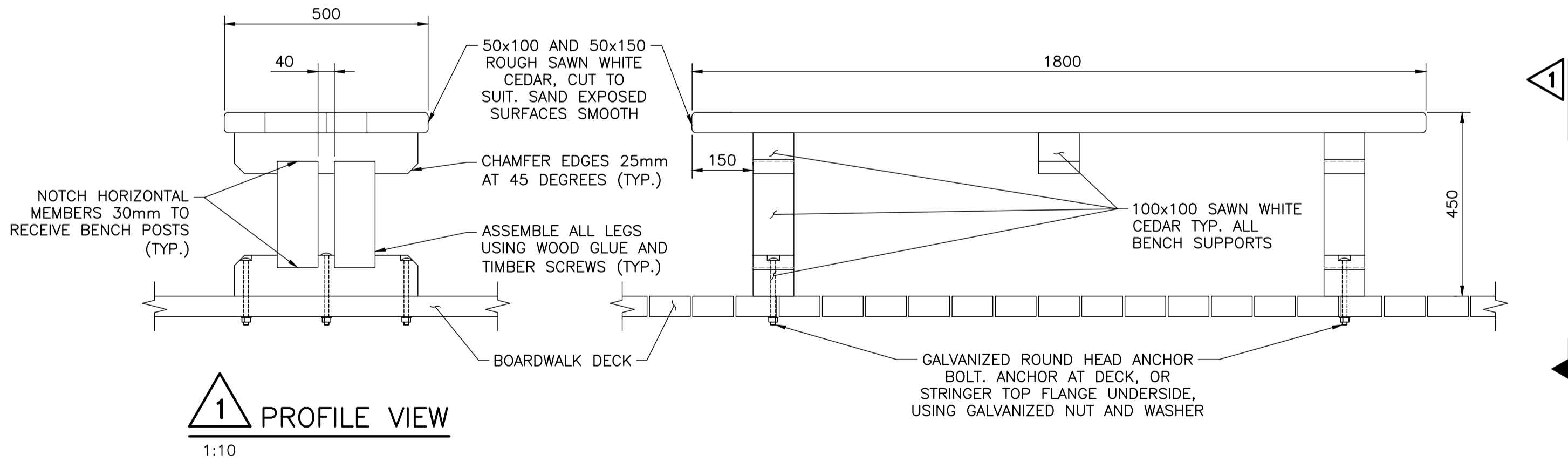
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PLOT DATE: 2021-01-29 12:35:38 PM PLOT SCALE: 1:46.402 PLOT STYLE: MTO\_MONOCHROME\_FULL\_SIZE.CTB

STRUCTURE SUMMARY TABLE (APPROXIMATE STRUCTURE GEOMETRY)									
STRUCTURE	START	END	RISE (mm)	RUN (mm)	STEP HEIGHT (mm)	NO. STEPS	NO. TREADS	TREAD LENGTH (mm)	WIDTH (mm)
STAIRCASE NO. 1	3+000	3+009	1,450	9,000	180	9	8	1,125	2,200
STAIRCASE NO. 3	10+387	10+427	3,720	29,125	180	21	20	1,456	900
STAIRCASE NO. 4A	11+304	11+284	3,500	20,000	180	20	19	1,053	2,200
STAIRCASE NO. 4B	11+273	11+284	1,000	11,000	180	6	5	2,200	2,200
STAIRCASE NO. 5	9+078	9+100	4,500	22,000	180	25	24	917	900
BOARDWALK NO. 1	1+836	1+866	—	30,000	—	—	—	—	2,400
BOARDWALK NO. 2	4+704	4+754	—	50,000	—	—	—	—	2,400
BOARDWALK NO. 4	11+290	11+302	—	11,320	—	—	—	—	2,400



TYPICAL BEAM CONNECTION (TO BE DESIGNED BY FABRICATOR)

1:5



BENCH DETAIL

1:10

NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1 TO S4 AND S6 TO S9.
- ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.



Client  
**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8



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A	A detail number number du détail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. détail sur dessin no.	C

project title  
**NORTH EAST TRAIL**  
titre du projet

drawing title  
**SUMMARY TABLE AND  
TYPICAL CONNECTION DETAIL**  
titre du dessin

designed by  
**M. J. HAYMAN, P.ENG.**  
conçu par

drawn by  
**R. J. DUCHESNE**  
dessiné par

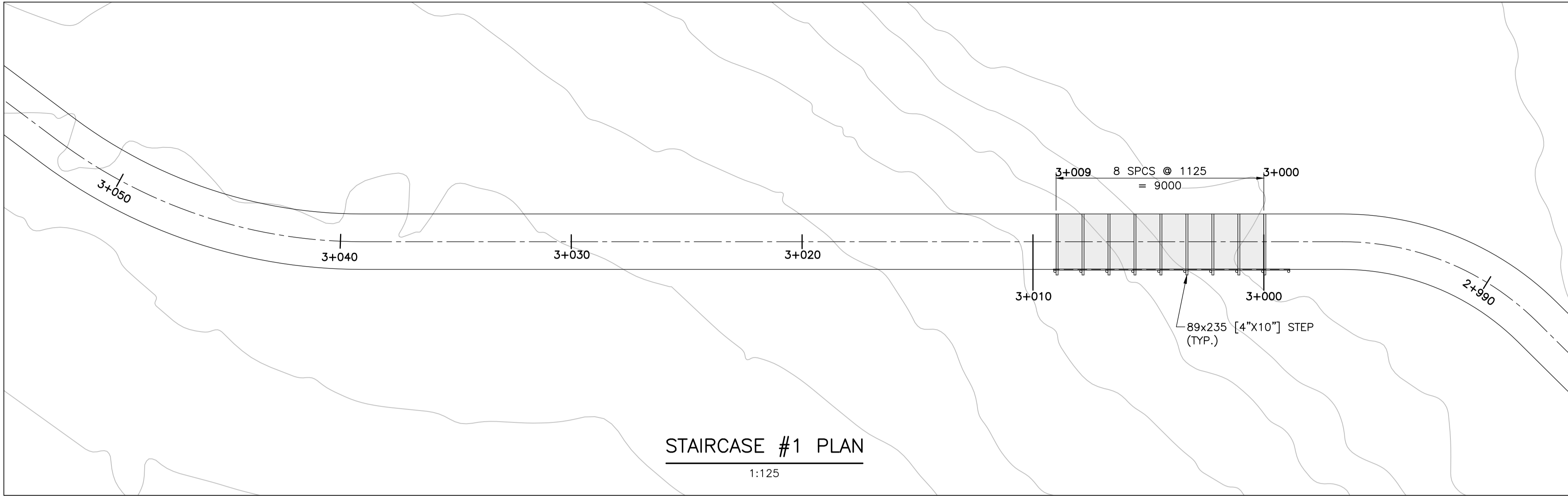
approved by  
  
approuvé par

Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

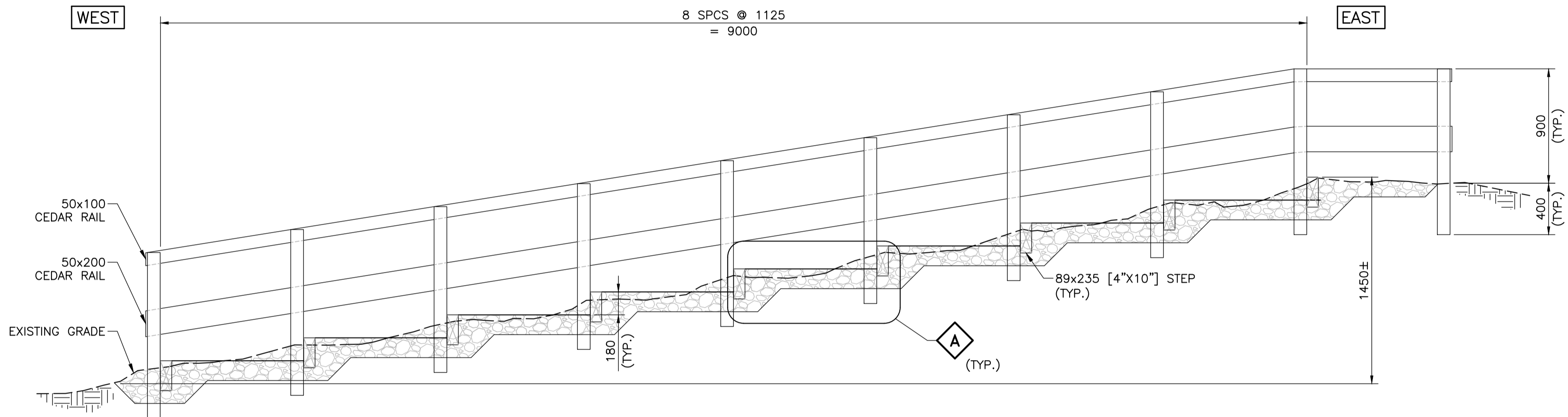
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project no. <b>19-1500</b>	projet no. <b>19-1500</b>	date	45 OF 49

DRAWING NOT TO BE SCALED  
100 mm ON ORIGINAL DRAWING

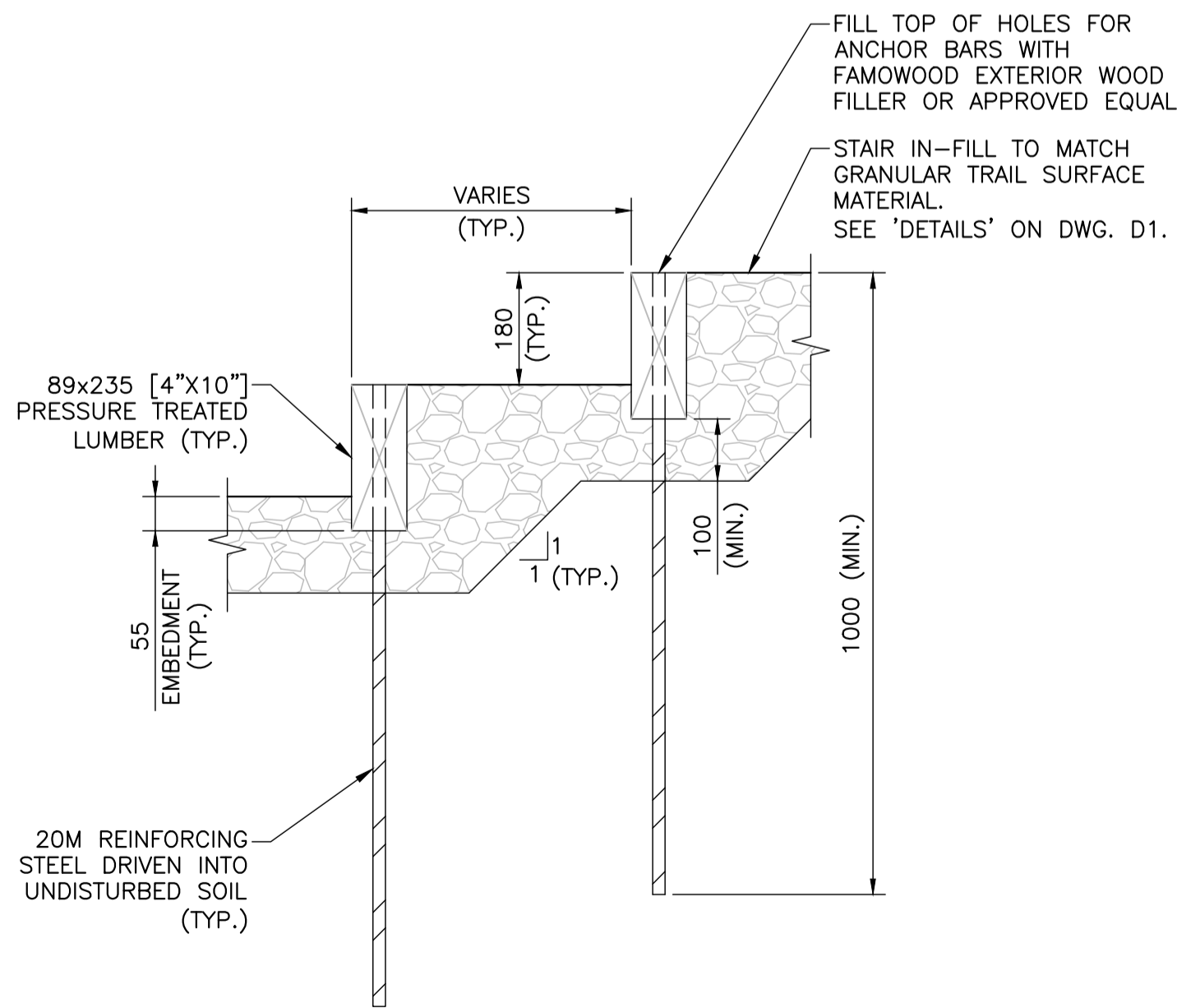
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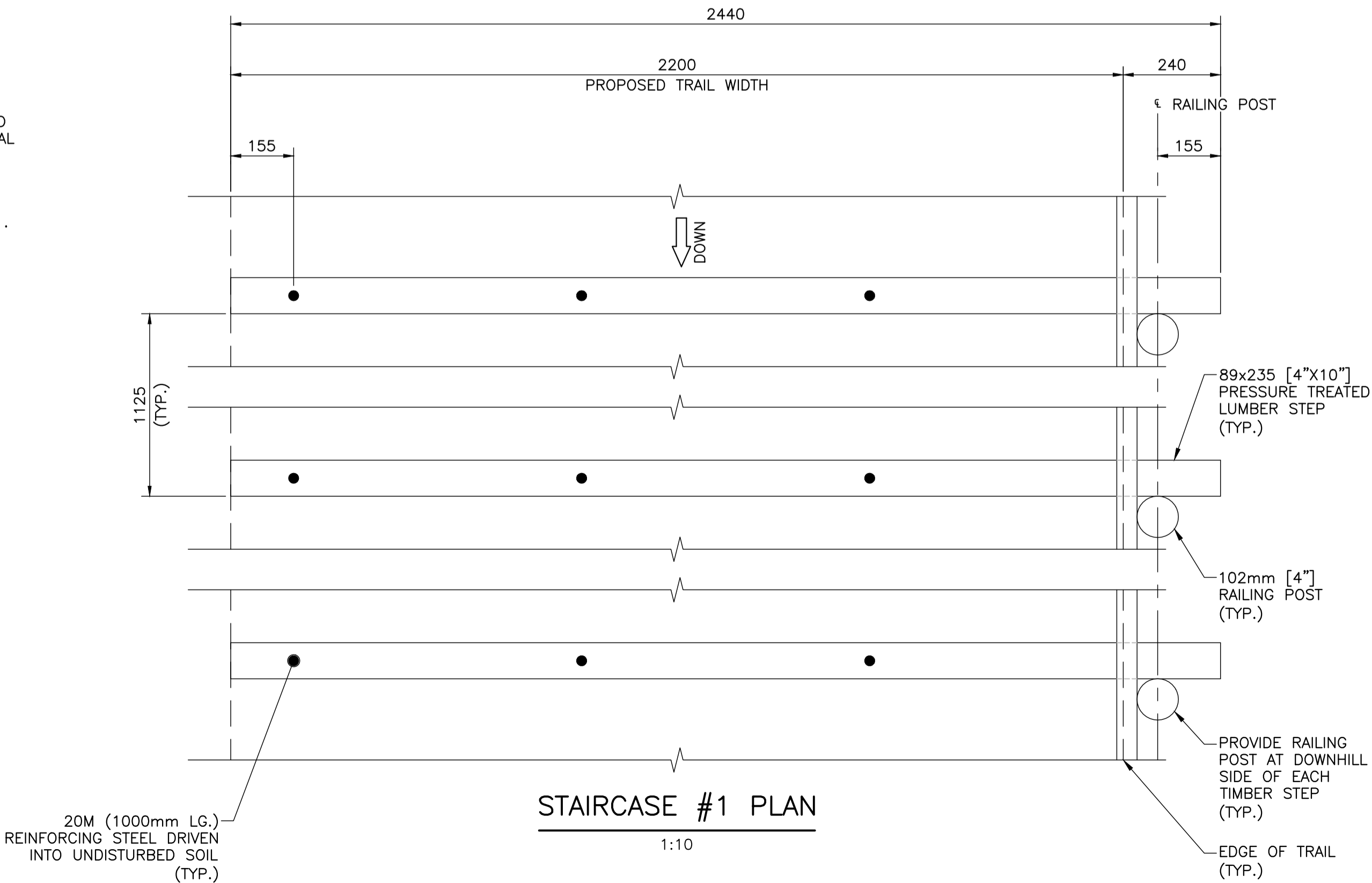
STAIRCASE #1 PLAN  
1:125



STAIRCASE #1 SECTION  
1:25



TYPICAL STAIR DETAIL  
1:10



STAIRCASE #1 PLAN  
1:10

NOTES

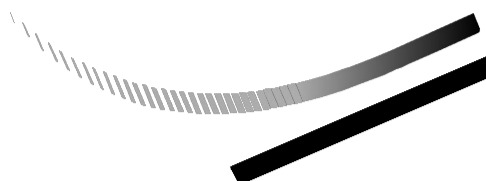
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1 AND S7 TO S10.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.



Client  
**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8

Consultant



**DILLON**  
CONSULTING

Stamp



Stamp

REVISIONS	DESCRIPTION	DATE
3	ISSUED FOR TENDER SUBMISSION	2021.01.29
2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16

A	A detail number number du détail	A
B	B source drawing no. de dessin no.	B C
C	C detail on drawing no. détail sur dessin no.	

project title  
titre du projet

**NORTH EAST TRAIL**

drawing title  
titre du dessin

**LAYOUT & DETAILS**  
**STAIRCASE #1**

designed by  
conçu par

**M. J. HAYMAN, P.ENG.**

drawn by  
dessiné par

**R. J. DUCHESNE**

approved by  
approuvé par

Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

scale  
échelle

**AS SHOWN**

project no.  
projet no.

**19-1500**

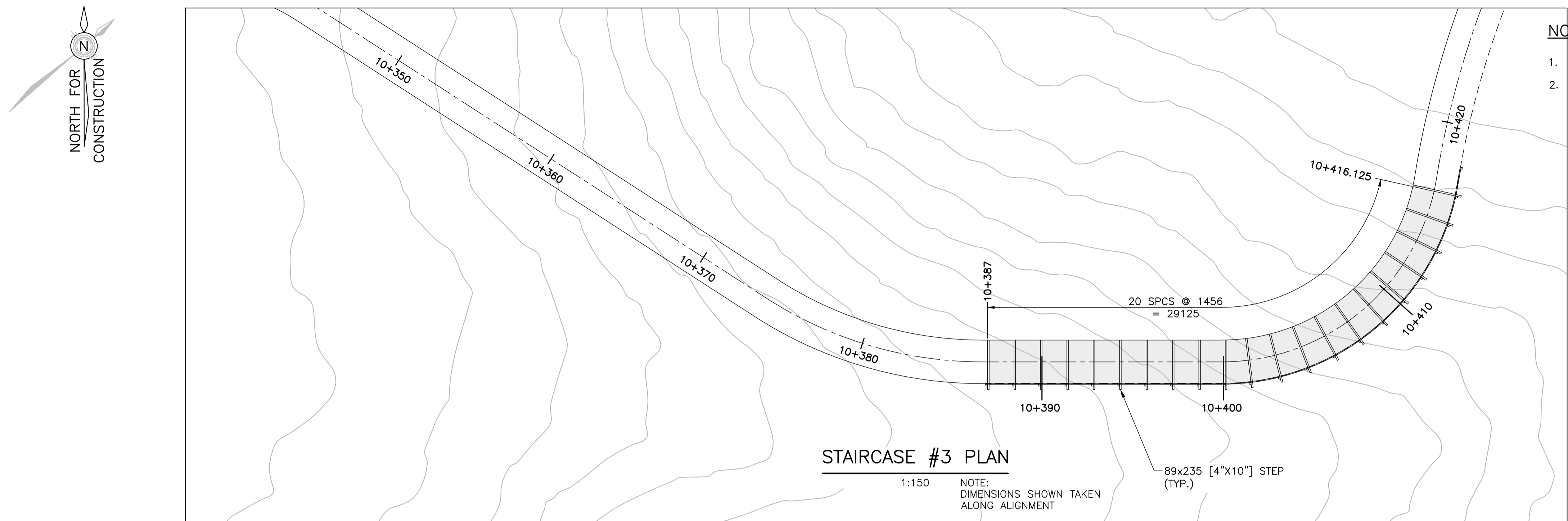
date

**S6**

46 OF 49

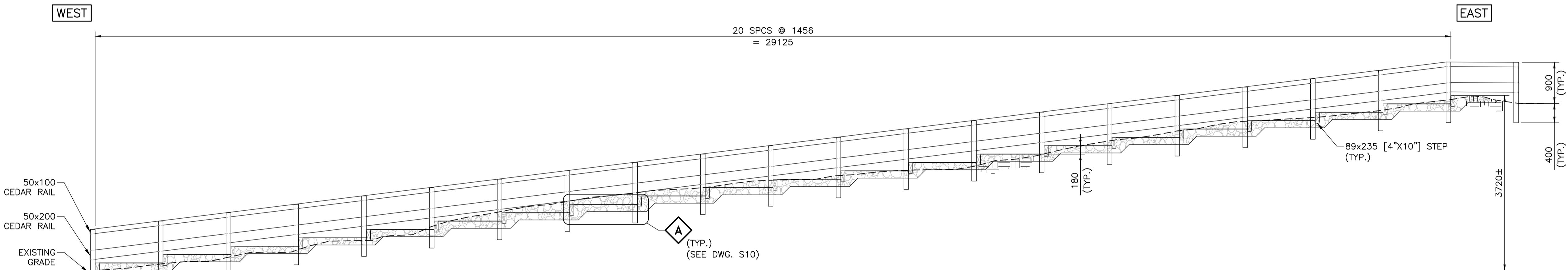
DRAWING NOT TO BE SCALED  
100 mm ON ORIGINAL DRAWING

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\3418\DWG43150\191500-09-STRUCT-CON\_1.DWG PLOTTED BY: BRAINE, LEIGHANN  
PLOT DATE: 2021-01-29 @ 12:35:48 PM PLOT SCALE: 1:46.402 PLOT STYLE: MTO\_MONOCHROME\_FULL\_SIZE.CTB

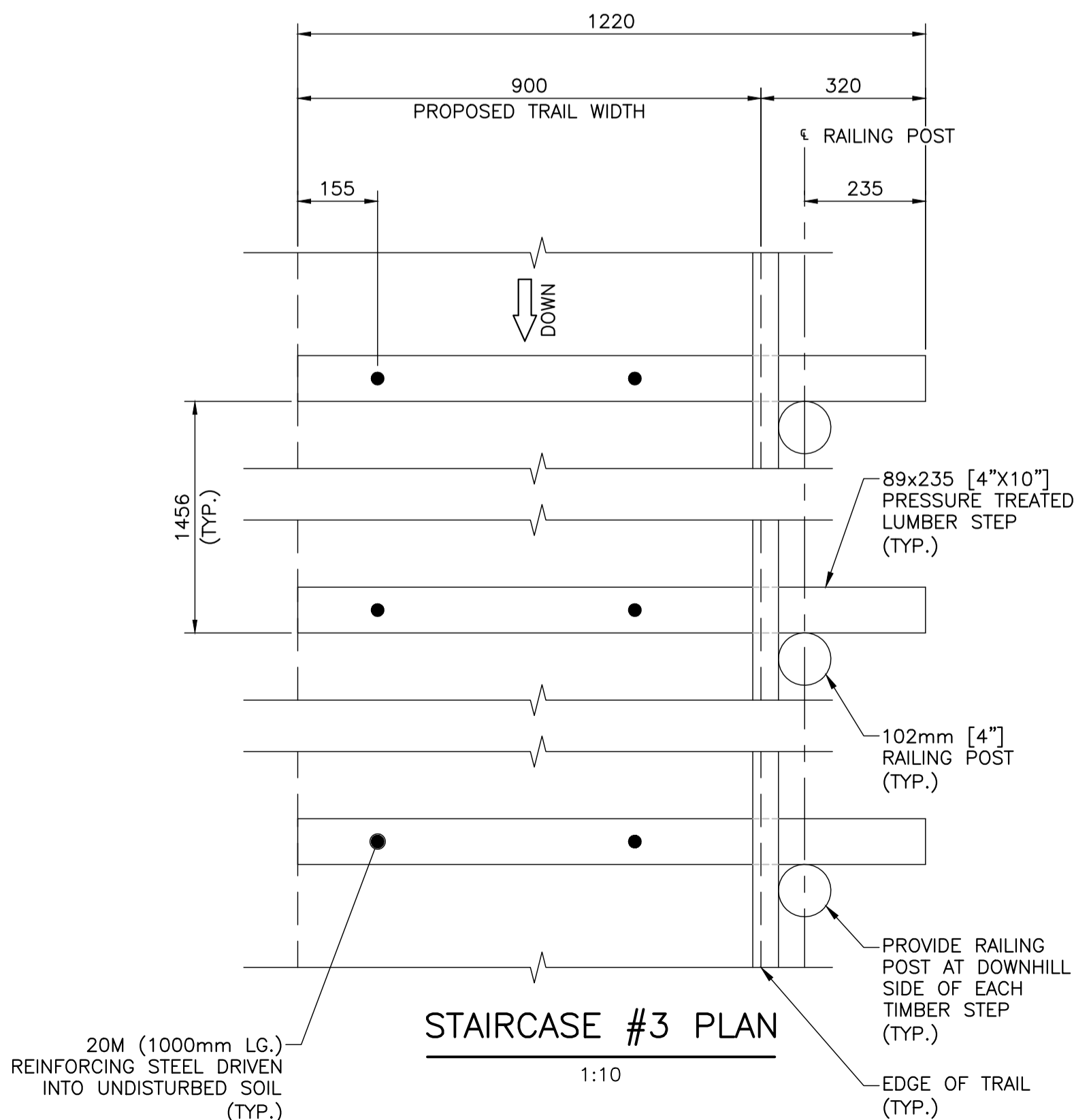


NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1, S6, S7, S9 AND S10.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.




STAIRCASE #3 SECTION



STAIRCASE #3 PLAN

DRAWING NOT TO BE SCALED  
100 mm ON ORIGINAL DRAWING

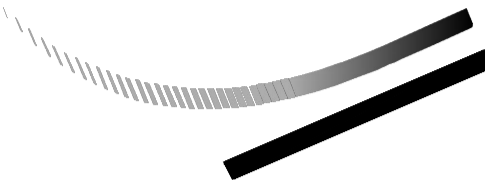


Client

**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**


10725 Reesor Rd, Markham, ON L6B 1A8

Consultant



**DILLON**  
CONSULTING

Stamp

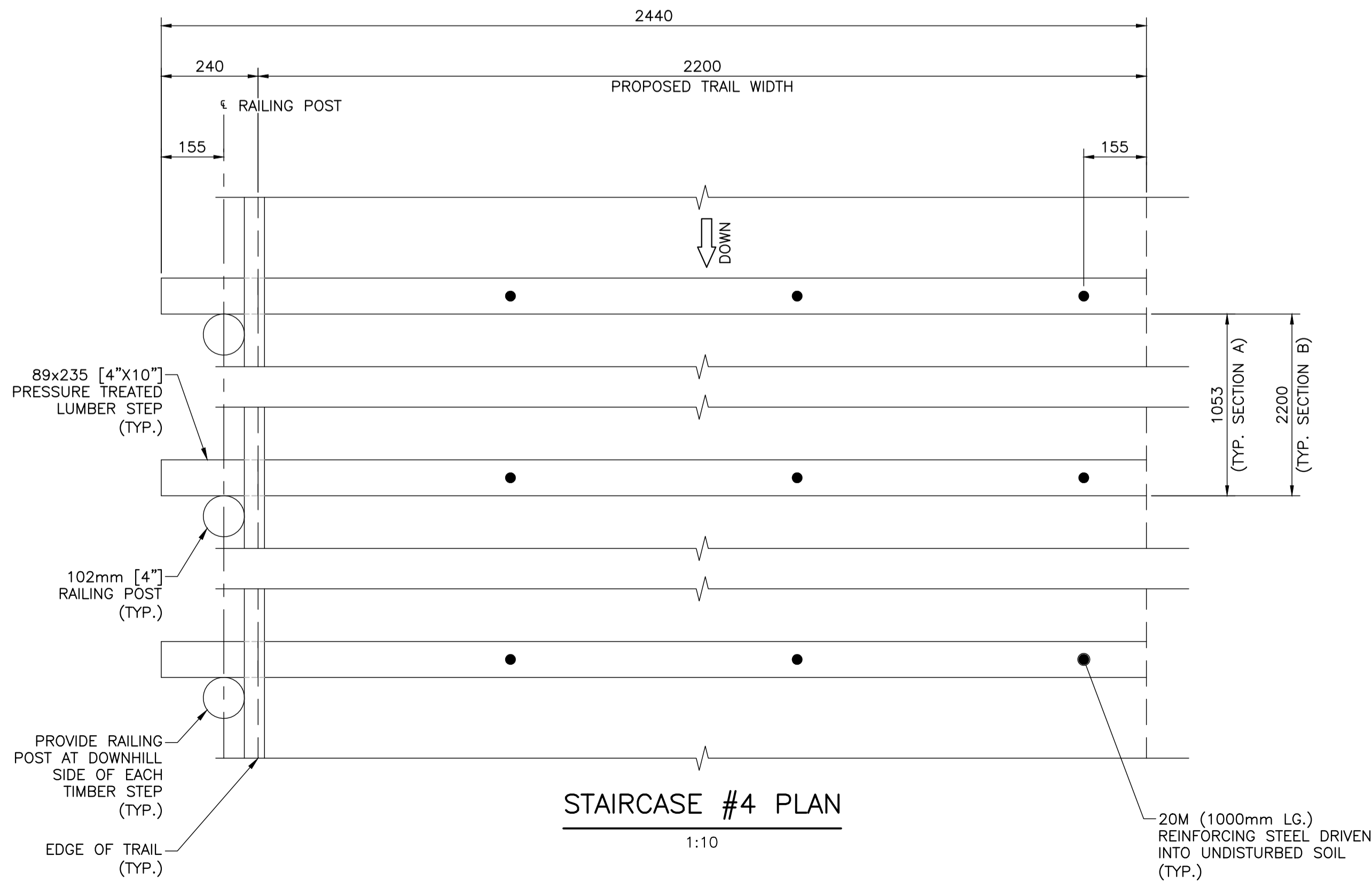
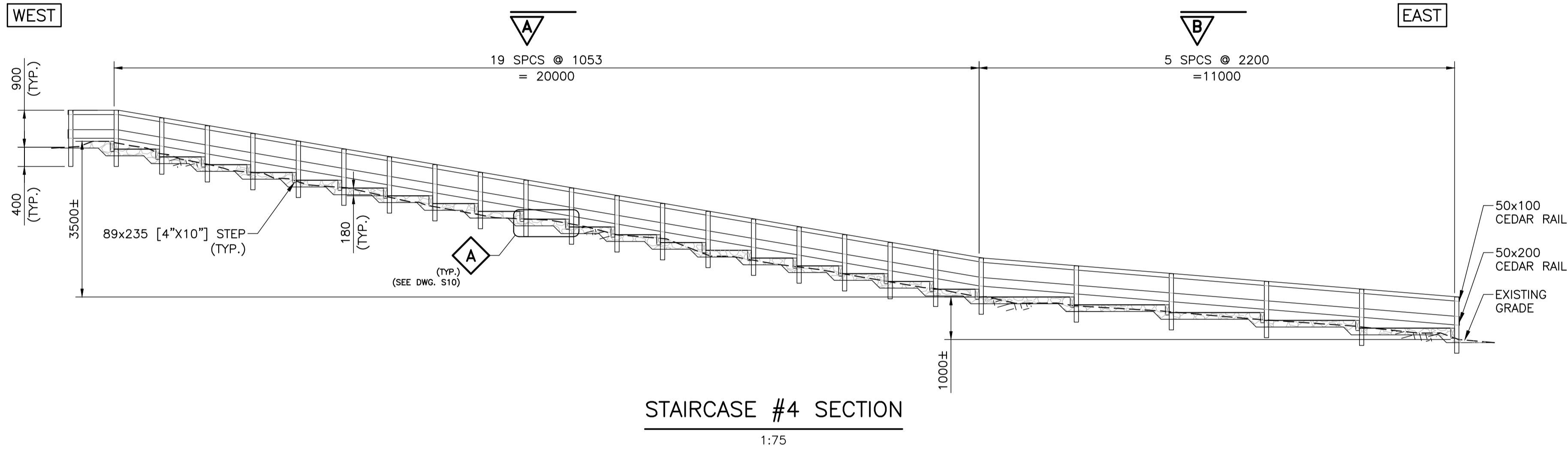
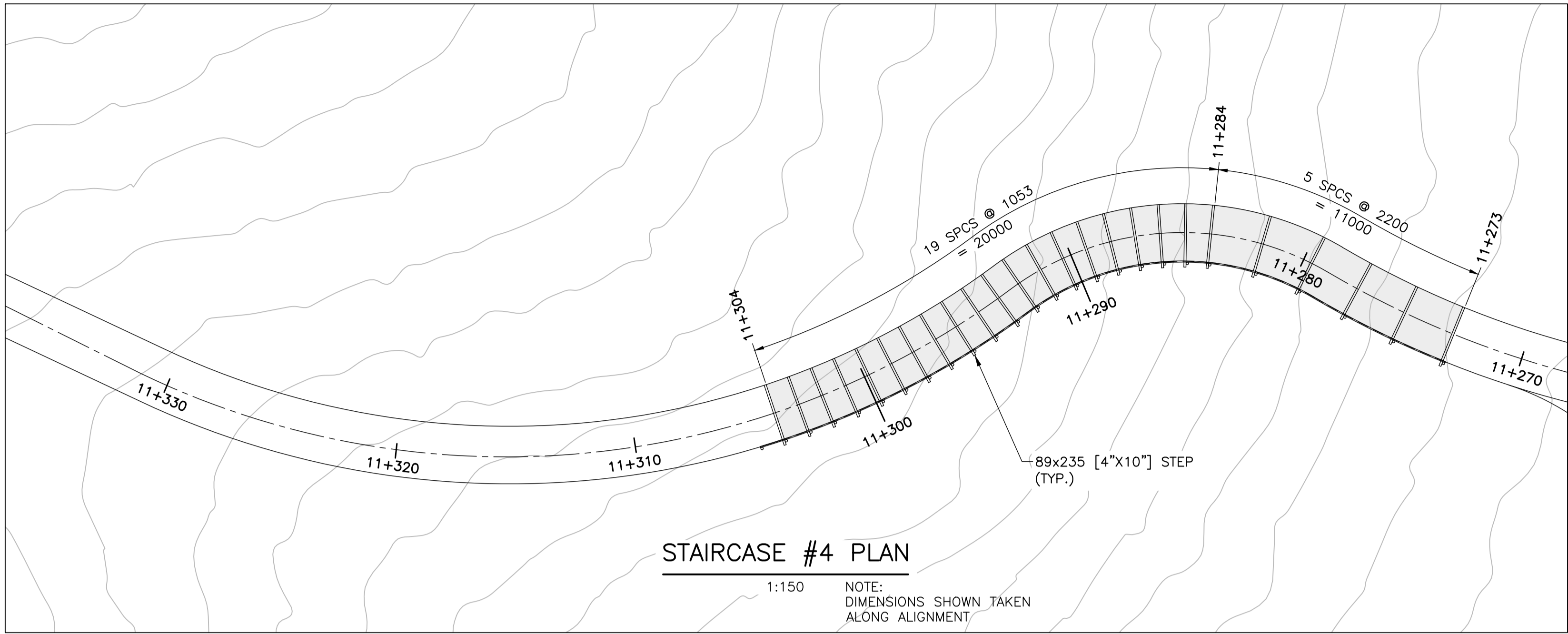


M. J. D. HAYMAN  
190160150  
1/29/21  
PROVINCE OF ONTARIO

Stamp

3	ISSUED FOR TENDER SUBMISSION	2021.01.29
2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16
REVISIONS	DESCRIPTION	DATE
A	A detail number number du détail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. détail sur dessin no.	C
project title	titre du projet	
<b>NORTH EAST TRAIL</b>		
drawing title	titre du dessin	
<b>LAYOUT &amp; DETAILS STAIRCASE #3</b>		
designed by	M. J. HAYMAN, P.ENG.	conçu par
drawn by	R. J. DUCHESNE	dessiné par
approved by		approuvé par
Parks Canada Project Manager	Administrateur de Projets Parcs Canada	
scale	AS SHOWN	échelle
project no.	19-1500	projet no.
date		date
		<b>S7</b>
		47 OF 49

FILENAME: C:\PM WORKING DIRECTORY\PROJECTS 2019\3418\DWG\43150\191500-09-STRUCT-CON\_1.DWG PLOTTED BY: BRAINE, LEIGHANN  
PLOT DATE: 2021-01-29 @ 12:35:52 PM PLOT SCALE: 1:46.402 PLOT STYLE: MTO\_MONOCHROME\_FULL\_SIZE.CTB



## NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1, S6 TO S8, AND S10.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.



Client  
**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8



REVISIONS	DESCRIPTION	DATE
3	ISSUED FOR TENDER SUBMISSION	2021.01.29
2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16

A	A detail number number du détail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. détail sur dessin no.	C

project title  
titre du projet

**COYOTE TRAIL (NORTH LOOP)**

drawing title  
titre du dessin

**LAYOUT & DETAILS**  
**STAIRCASE #4**

designed by  
conçu par  
**M. J. HAYMAN, P.ENG.**

drawn by  
dessiné par  
**K. J. MARTIN**

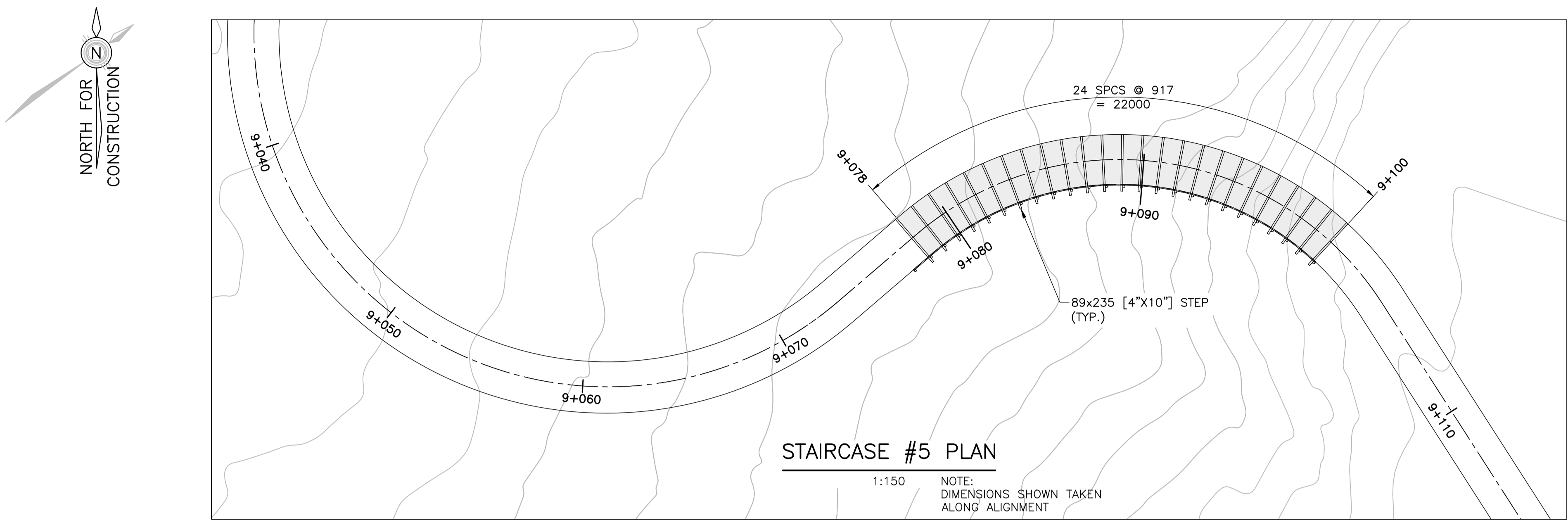
approved by  
approuvé par

Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

scale	échelle	sheet	feuille
AS SHOWN			
project no.	19-1500	project no.	S8
date		date	48 OF 49

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100 mm ON ORIGINAL DRAWING

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2019\3418\DWG43150\191500-09-STRUCT-CON\_1.DWG PLOTTED BY: BRAINE, LEIGHANN  
PLOT DATE: 2021-01-29 @ 12:35:57 PM PLOT SCALE: 1:46.402 PLOT STYLE: MTO\_MONOCHROME\_FULL\_SIZE.CTB



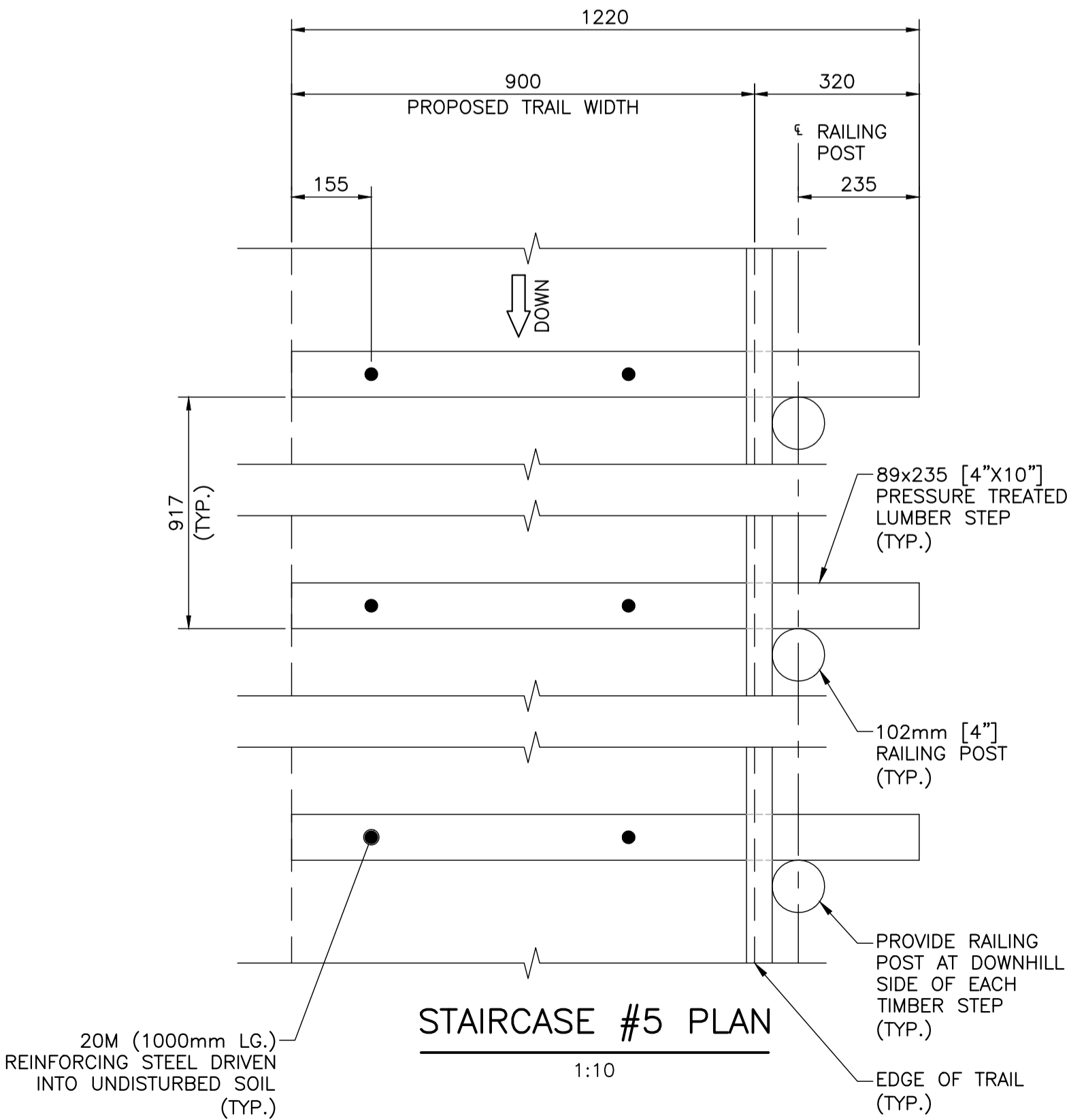
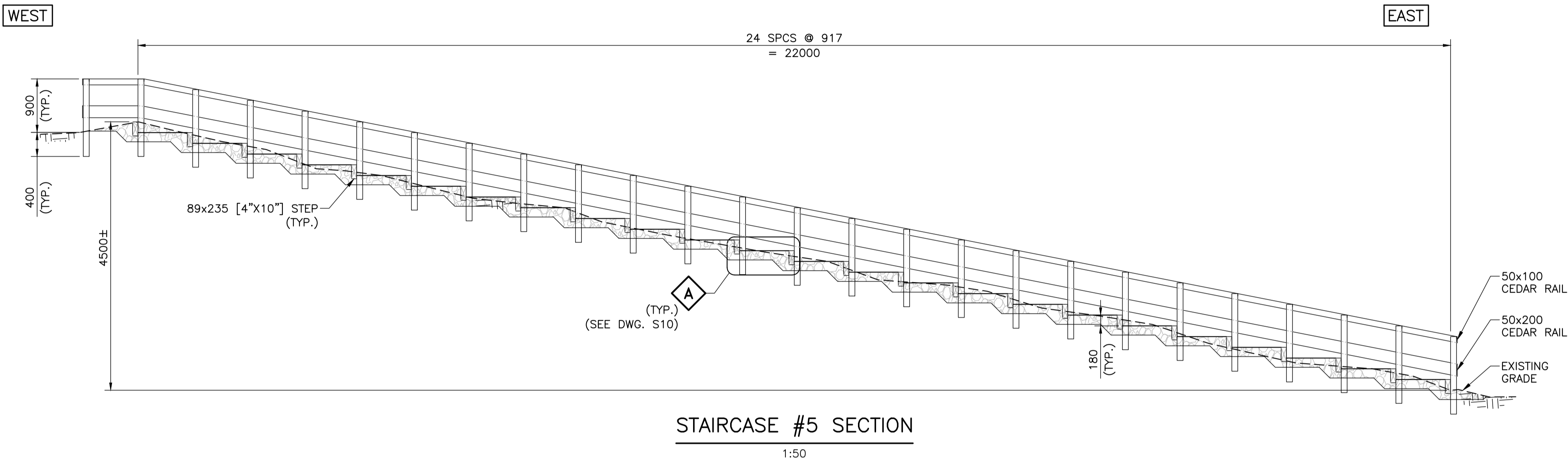
NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS S1 AND S6 TO S8.
2. ALL MEASUREMENTS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.



Client  
**PARKS CANADA**  
**ROUGE NATIONAL URBAN PARK**

10725 Reesor Rd, Markham, ON L6B 1A8



DRAWING NOT TO BE SCALED  
100 mm ON ORIGINAL DRAWING

3	ISSUED FOR TENDER SUBMISSION	2021.01.29
2	ISSUED FOR 90% SUBMISSION	2020.11.30
1	ISSUED FOR 60% SUBMISSION	2020.10.16

REVISIONS	DESCRIPTION	DATE
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A	A detail number	A
C	number du détail	B
	B source drawing no.	C
	de dessin no.	
	C detail on drawing no.	
	détail sur dessin no.	

project title  
**COYOTE TRAIL**  
titre du projet

drawing title  
**LAYOUT & DETAILS**  
**STAIRCASE #5**  
titre du dessin

designed by  
**M. J. HAYMAN, P.ENG.**  
conçu par

drawn by  
**K. J. MARTIN**  
dessiné par

approved by  
  
approuvé par

Parks Canada Project Manager  
Administrateur de Projets Parcs Canada

scale	AS SHOWN	échelle	sheet	feuille
project no.	19-1500	projet no.	<b>S9</b>	
date		date	49	OF 49