

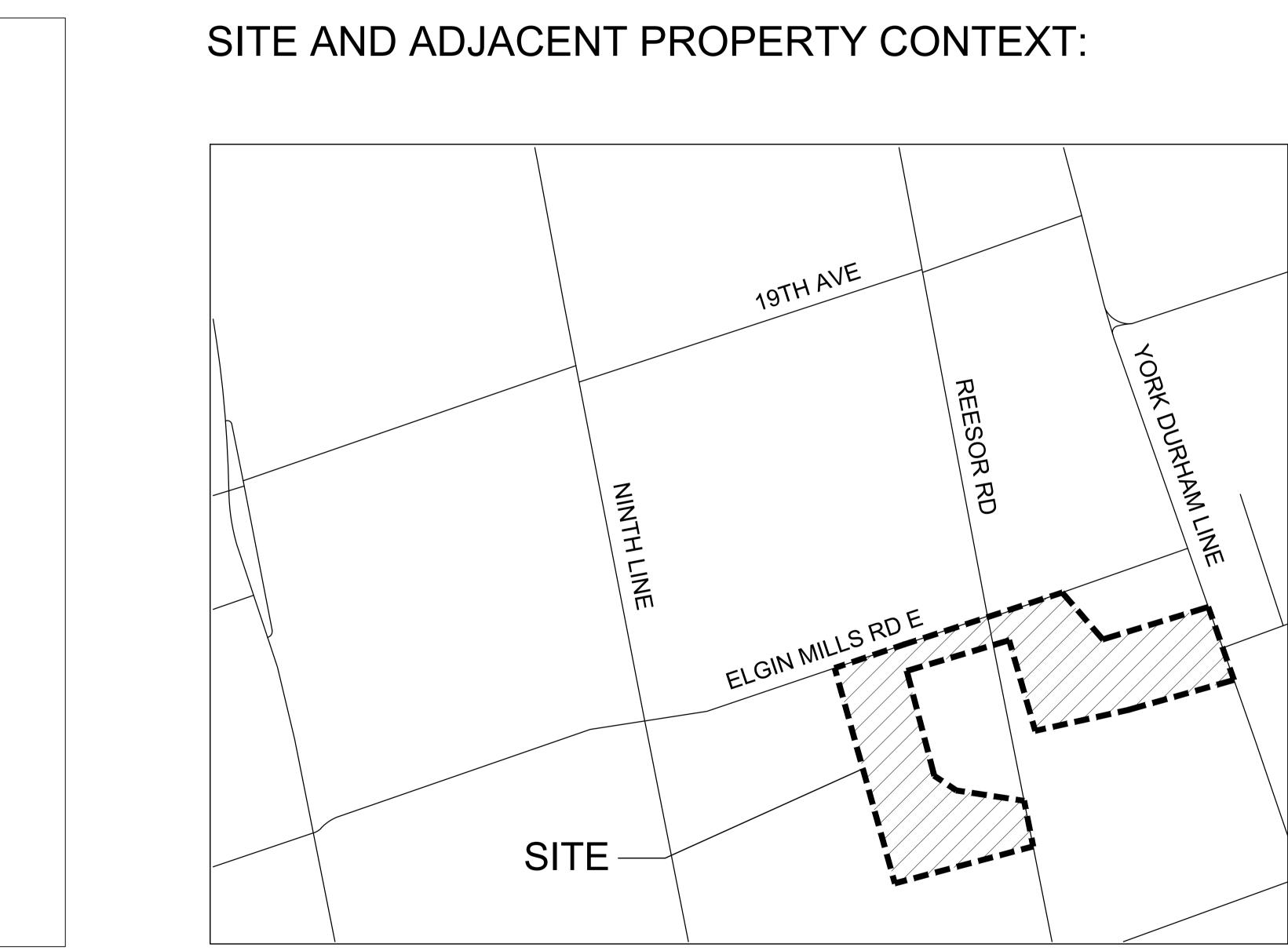
PARKS CANADA REESOR FORKS TRAIL: ROUGE NATIONAL URBAN PARK

SOLICITATION NO. 5P201-19-0091 WSP PROJECT No. 17M-01916-00 AUGUST 2019

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ISSUED FOR TENDER



Landscape Architecture 582 Lancaster Street West Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com

PREPARED BY:

GENERAL NOTES:

- ALL EXCAVATION WORK AND EQUIPMENT MOVEMENT SHALL BE RESTRICTED TO STAGING AREAS AND TRAIL CORRIDOR
- (2.4M WIDE TRAIL BED WHEREVER POSSIBLE, TO FENCE LINE TO BE INSTALLED IN THIS CONTRACT) CONTRACTOR TO REMOVE AND DISPOSE OF OFF-SITE AT NO ADDITIONAL COST TO THE CONTRACT ITEMS NOTED FOR REMOVAL INCLUDING BUT NOT LIMITED TO ALL ASPHALT PAVING, CONCRETE PAVING, AND SIGNAGE AS REQUIRED 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, SHALL BE STORED AT A LOCATION ON-SITE AS IDENTIFIED BY THE PCA REPRESENTATIVE.
- CONTRACTOR TO MAKE GOOD TO PCA REPRESENTATIVE'S APPROVAL ALL DAMAGES THAT OCCUR DURING CONSTRUCTION. 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. • 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.
- 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.
- 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 IS RESPONSIBLE FOR DAMAGE TO ALL UNDERGROUND SERVICES INCLUDING LIGHT STANDARD ELECTRICAL LINES.
- QUALIFIED REGISTERED LAND SURVEYOR (OLS), ACCEPTABLE TO PCA REPRESENTATIVE. TO LOCATE, CONFIRM AND PROTECT CONTROL POINTS PRIOR TO STARTING SITE WORK. PRESERVE PERMANENT REFERENCE POINTS DURING CONSTRUCTION.
- ESTABLISH TWO PERMANENT BENCH MARKS ON SITE, REFERENCED TO ESTABLISHED BENCH MARKS BY SURVEY CONTROL POINTS. RECORD LOCATIONS, WITH HORIZONTAL AND VERTICAL DATA IN PROJECT RECORD DOCUMENTS.
- ESTABLISH LINES AND LEVELS, LOCATED AND LAY OUT, BY INSTRUMENTATION. • SUBSTITUTIONS FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED BY THE PCA REPRESENTATIVE PRIOR TO THE ORDERING OF MATERIALS.
- THESE DESIGN DRAWINGS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT WITH.

UNDERGROUND SERVICING AND UTILITIES, PERMITS:

- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES. CONTRACTOR TO VERIFY LOCATION AND PROTECT ALL SERVICES PRIOR TO ANY EXCAVATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL A PRIVATE LOCATING COMPANY AND PAY ALL COSTS RELATING TO ALL SERVICES NOT STAKED OUT BY GAS, HYDRO, BELL, AND CABLE.
- UTILITIES MUST BE LOCATED BY UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES WHICH OCCUR TO EXISTING SERVICES DURING CONSTRUCTION.
- CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, REPORTING ALL DISCREPANCIES TO THE PCA REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING SERVICES DURING CONSTRUCTION. ALL PERMITS REQUIRED BY AUTHORITIES WITHIN JURISDICTION INCLUDING THE MUNICIPALITY AND TRCA ARE TO BE ATTAINED BY THE CONTRACTOR.

SEDIMENTATION CONTROL

- ALL SILTATION CONTROL (FILTREXX SILT SOXX OR APPROVED EQUAL) SHALL BE INSTALLED PRIOR TO THE
- COMMENCEMENT OF EXCAVATION OR GRADING.
- 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. • ALL ON-SITE STORAGE OF GRANULAR MATERIALS WILL BE ISOLATED AND SECURED WITH SNOW FENCING
- SURROUNDED BY FILTREXX SILT SOXX OR APPROVED EQUAL
- FOLLOWING THE COMPLETION OF CONSTRUCTION ALL SNOW FENCING AND POSTS SURROUNDING MATERIAL STAGING AREAS WILL BE REMOVED AND DISPOSED OF OFF-SITE. NO IN-WATER WORKS ARE PERMITTED.
- NO VEHICLES OR EQUIPMENT MAY BE REFUELLED WITHIN 30 METRES OF ANY WATERCOURSES. EQUIPMENT WILL NOT TRAVERSE THROUGH ANY WATERCOURSES.
- THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO 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
- 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:

- CONTRACTOR TO WORK WITHIN GUIDELINES FOR THE MUNICIPALITY'S NOISE BY-LAWS. • 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 TREES TO BE REMOVED SHALL BE FELLED INTO THE WORK AREA TO AVOID DAMAGE TO SURROUNDING VEGETATION • 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 HAZARD TREES TO BE RETAINED AS WILDLIFE HABITAT POSTS SHALL BE CUT OFF AT 10m ABOVE GROUND. HABITAT
- POSTS ARE FLAGGED IN THE FIELD BY PCA REPRESENTATIVE

ARCHAEOLOGY NOTES:

 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:

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL AREAS WITHIN THE LIMIT OF THE WORK.
- ENSURE TRANSITION OF EXISTING AND NEW GRADE ELEVATIONS IS SMOOTH.
- MINIMUM PERMITTED HARDSCAPE SLOPE IS 2%; MAXIMUM PERMITTED IS 5%. • MINIMUM GROUND SLOPE TO BE 2%, MAXIMUM PERMITTED 33%.
- NOTIFY PCA REPRESENTATIVE IMMEDIATELY, IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS ARE DISCOVERED.

LAYOUT NOTES:

- LAYOUT OF BOARDWALK, FENCELINE, AND SITTING NODES TO BE STAKED BY CONTRACTOR AND ACCEPTED BY THE PCA REPRESENTATIVE.
- CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY ERRORS, OMISSIONS, OR DISCREPANCIES TO THE PCA REPRESENTATIVE IN WRITING.
- NOTIFY PCA REPRESENTATIVE IMMEDIATELY, IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS
- ARE DISCOVERED. • THE FLAGS CURRENTLY IN THE FIELD (ORANGE) ARE NOT TO BE REMOVED THE THE CONTRACTOR UNTIL THE
- FINAL LAYOUT/STAKEOUT IS APPROVED BY PCA REPRESENTATIVE. CONTRACTOR TO COORDINATE WITH PCA REPRESENTATIVE REGARDING THE ERECTION OF ALL CONSTRUCTION FENCING.

- OTHER WILDLIFE.
- **RESOURCE CONSERVATION STAFF**
- REPRESENTATIVE.
- THE WORK AREA.

- POPULATIONS.

TREE PRESERVATION NOTES AND GUIDELINES

- AUGUST 19, 2019. REFER AND ADHERE TO THE HAZARD TREE REPORT FOR SPECIFIC RECOMMENDATIONS, PROTECTIVE AND MITIGATION
- MEASURES YELLOW OR ORANGE CONSTRUCTION TAPE, FASTENED TO 6' HIGH 2"x2" WOOD STAKES POUNDED APPROXIMATELY 18" INTO THE GROUND.

- BUILDING MATERIALS OR EQUIPMENT.

WORKING AROUND WILDLIFE PROTOCOL:

• TO COMPLY WITH FEDERAL AT RISK 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

• 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.

• 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

• 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

• 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 SWALLOWS, WOOD THRUSHES, EASTERN WOOD-PEWEES, 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.

• IF WILDLIFE ARE OBSERVED AT OR NEAR THE WORK SITE, ALLOW THE ANIMAL(S) THE OPPORTUNITY TO LEAVE

 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.

CLEAN EQUIPMENT PROTOCOL:

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

 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.

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. IF ANYTHING IS IDENTIFIED, THE VEHICLE/EQUIPMENT WILL NEED TO BE CLEANED IN AN AREA WHERE SEED SPREAD IS NOT POSSIBLE.

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 (RHAMNUS 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).

TO MINIMIZE THE SPREAD OF INVASIVE PLANT SPECIES IN ZONES NOTED ON L-300 TO L-335, SOIL FROM ANY EXCAVATION WITHIN THIS ZONE 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.

 ANY MACHINERY USED WITHIN AREAS CONTAINING INVASIVE SPECIES MUST BE THOROUGHLY WASHED PRIOR TO TRAVELING/WORKING ELSEWHERE ON SITE TO PREVENT POTENTIAL CONTAMINATION.

 FOR A DETAILED DESCRIPTION OF TREE SPECIES, SIZE, CONDITION AND RECOMMENDATIONS REFER TO THE TREE INVENTORY AND PRESERVATION CHARTS N THE TREE HAZARD REPORT PREPARED BY WSP CANADA GROUP LIMITED. DATED:

 TREE PRESERVATION MEASURES, INCLUDING THE ESTABLISHMENT OF TREE PROTECTION ZONE (TPZ) SHALL APPLY TO THE VEGETATION IDENTIFIED TO BE RETAINED AND PROTECTED. THE TREE PROTECTION ZONE SHALL CONSIST OF 2 BANDS OF

• ROOTS OVER 2.5CM DIAMETER THAT ARE TO BE CUT SHOULD BE PRUNED RATHER THAN LEFT TORN OR CRUSHED. AT THE COMMENCEMENT 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:

- 1. SOIL EXCAVATION USING SUPERSONIC AIR TOOLS, PRESSURIZED WATER OR
- HAND TOOLS, FOLLOWED BY SELECTIVE ROOT CUTTING 2. CUTTING THROUGH THE SOIL ALONG A PREDETERMINED LINE ON THE SURFACE
- USING TOOL SPECIFICALLY DESIGNED TO CUT ROOTS
- 3. MECHANICALLY EXCAVATING (E.G. BACKHOE) THE SOIL AND PRUNING WHAT IS LEFT OF THE EXPOSED ROOTS.
- 4. CUTS TO BE MADE WITH HAND PRUNING SHEARS, BY-PASS BLADE, PRUNING SAW. DO NOT USE ANVIL TYPE PRUNERS.

 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. ALL EXISTING TREES WHICH ARE TO REMAIN SHALL BE FULLY PROTECTED WITH FENCING ERECTED AROUND THE ENTIRE PERIMETER OF THE TREE PROTECTION ZONE IN ACCORDANCE WITH THE MINIMUM TREE PROTECTION DISTANCES BELOW • AREAS WITHIN THE PROTECTIVE FENCING SHALL REMAIN UNDISTURBED AND SHALL NOT BE USED FOR THE STORAGE OF

MINIMUM TREE PROTECTION DISTANCE FROM TRUNKS

< 10cm	DBH	1.2m
10-29cm	DBH	1.8m
30-40cm	DBH	2.4m
41-50cm	DBH	3.0m
51-60cm	DBH	3.6m
61-70cm	DBH	4.2m
71-80cm	DBH	4.8m
81-90cm	DBH	5.4m
91-100cm	DBH	6.0m
> 100cm	DBH	6cm/1cm DIA

(DIAMETER AT BREAST HEIGHT) DBH = TRUNK DIAMETER AT 1.4m HEIGHT

SEEDING:

- SEEDING SHALL BE APPLIED TO ALL AREAS DISTURBED BY THE CONST WILL NOT BE COVERED WITH GRANULAR TRAIL OR PARKING LOT SURF
- IN PREPARATION FOR SEEDING, ALL SURFACE AREAS MUST BE UNIFOR FREE OF EROSION, CONCRETE, METAL, GLASS OR OTHER NON-ORGAN MATERIALS. EXISTING SURFACE SOIL SHALL BE UNIFORMLY CULTIVA
- 50mm TO PROVIDE A LOOSE AND FRIABLE SEEDBED TO ACCELERATE (SEEDING SHALL BE BY MECHANICAL BROADCAST METHOD (E.G. HAND SPREADER) ON TO PREPARED SURFACE AND LIGHTLY HAND RAKED FC
- ENSURE SEED CONTACT WITH SOIL ALL SEED TO BE INSTALLED IN ACCORDANCE WITH SUPPLIER'S INSTRU
- ALL SEED NATIVE SEED MIXES TO BE BY ST. WILLIAMS NURSERY AND I APPROVED EQUAL. ALL SEED BAGS / CONTAINERS TO BE SEALED UPOI ORIGINAL SUPPLIER'S SEED MIX NAME AND COMPOSITION CLEARLY LA CONTAINER.
- SEED SHALL NOT BE APPLIED UNTIL CONTAINER AND LABELING HAS BE APPROVED BY PCA REPRESENTATIVE

SEED MIXES:

MIX 1: ST. WILLIAMS - BOBOLINK & MEADOWLARK SEED			
COMMON NAME	SPECIES		
RIVERBANK RYE	ELYMUS RIPARIUS		
VIRGINIA RYE	ELYNUS VIRGINICUS		
BIG BLUE STEM	ANDROPOGON GERARDII		
CANADA RYE	ELYMUS CANADENSIS		
SWITCH GRASS	PANICUM VIRGATUM		
GOLD FRUITED SEDGE	CAREX AUREA		
FRINGED SEDGE	CAREX CRINITA		
ROUGH DROPSEED	SPOROBOLUS ASPER		
COMMON MILKWEED	ASCLEPIAS SYRIACA		
BLUE VERVAIN	VERBENA HASTATA		
VIRGINIA MOUNTAIN MINT	PYCNANTHEMUM VIRGINIAN		
GREEN HEADED CONEFLOWER	RUDBECKIA LACINIATA		
BLUEJOINT	CALAMAGROSTIS CANADENS		

SEED AT RATE OF 10KG/HA.

|--|

COMMON NAME	SPECIES		
RIVERBANK RYE	ELYMUS RIPARIUS		
VIRGINIA RYE	ELYMUS VIRGINICUS		
SWITCH GRASS	PANICUM VIRGATUM		
GOLD FRUITED SEDGE	CAREX AUREA		
BLUE VERVAIN	VERBENA HASTATA		
HOP SEDGE	CAREX LUPINA		
SWAMP MILKWEED	ASCELPIAS INCARNATA		
TALL SUNFLOWER	HELIANTHUS GIGANTEA		
FRINGED SEDGE	CAREX CRINATA		
SOFT RUSH	JUNCUS EFFUSES		
VIRGINIA MOUNTAIN MINT	PYCNANTHEMUM VIRGINIAN		
GREEN HEADED CONEFLOWER	RUDBECKIA LACINIATA		
SNEEZEWEED	HELENIUM AUTUMNALE		
GREEN HEADED CONEFLOWER	RUDBECKIA LACINATA		
TALL MANNA GRASS	GLYCERIA GRANDIS		
GREAT ST. JOHNS WORT	HYPERICUM ASCYRON		

SEED AT RATE OF 10KG/HA.

MIX 3: ST. WILLIAMS - SEMI-SHADE FOREST EDGE MIX COMMON NAME SPECIES

	3FECIE3
BOTTLE BRUSH GRASS	ELYMUS HYSTRIX
SILKY RYE	ELYMUS VILLOSUS
INDIAN GRASS	SORGHASTRUM NUTANS
BIG BLUESTEM	ANDROPOGON GERARDII
WILD COLUMBINE	AQUILEGIA CANADENSIS
GIANT YELLOW HYSSOP	AGASTACHE NEPETOIDES
SWITCH GRASS	PANICUM VIRGATUM
WHITE VERVAIN	VERBENA URTRICULATA
VIRGINIA MOUNTAIN MINT	PYCNANTHEMUM VIRGINIAN
DWARF BLAZING STAR	LIATRIS CYLINDRACEA

SEED AT RATE OF 10KG/HA.

PROVISIONAL SEED MIX 4:

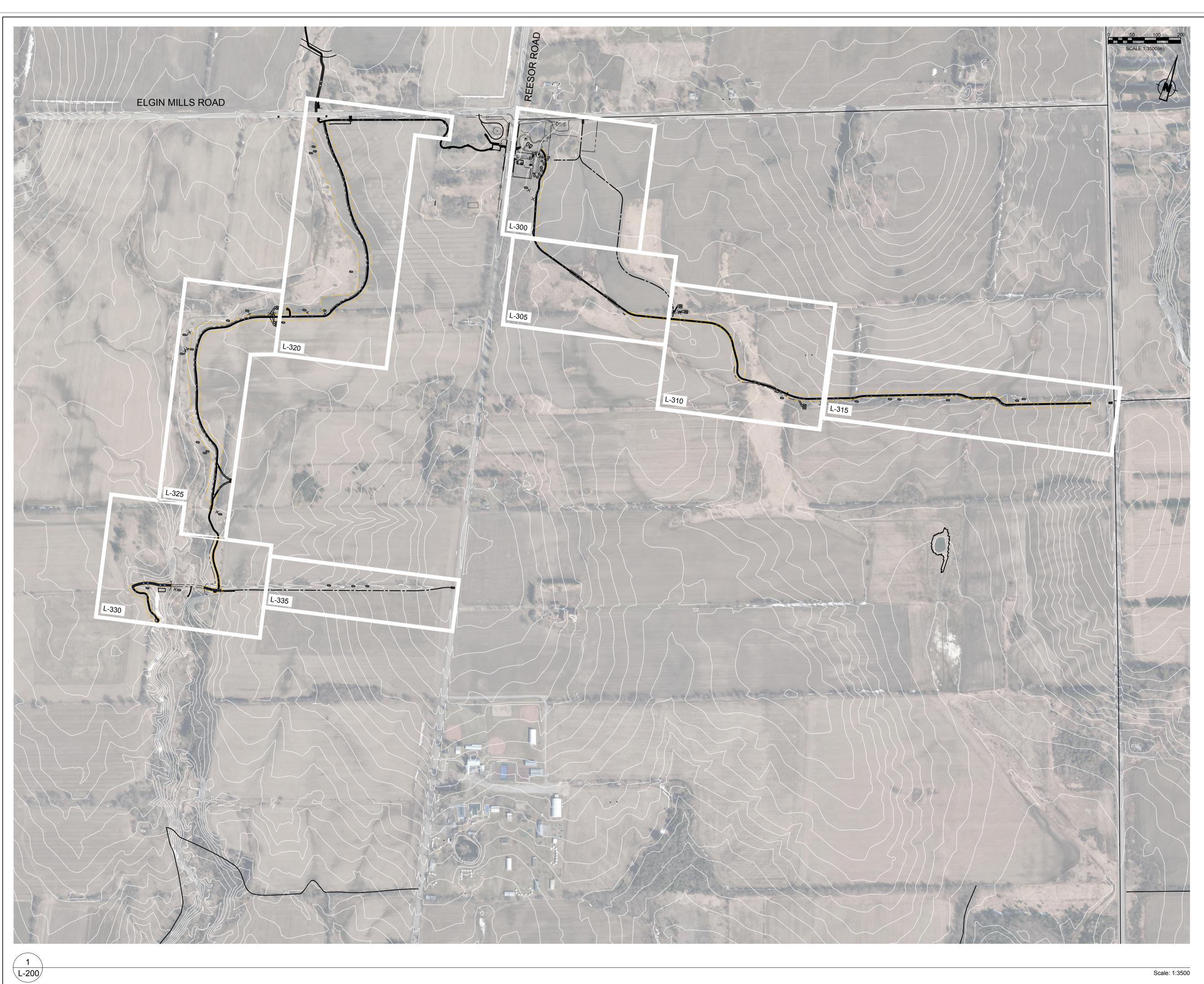
ANNUAL RYE. SEED AT RATE OF 30KG/HA

SEEDING SCHEDULE:

 SEED TO BE APPLIED WITHIN 7 DAYS OF COMPLETI DO NOTE APPLY SEED MIXES 1, 2 AND 3 BY ST. WILL LOWLAND, AND FORESTED AREAS RESPECTIVELY MARCH 30.

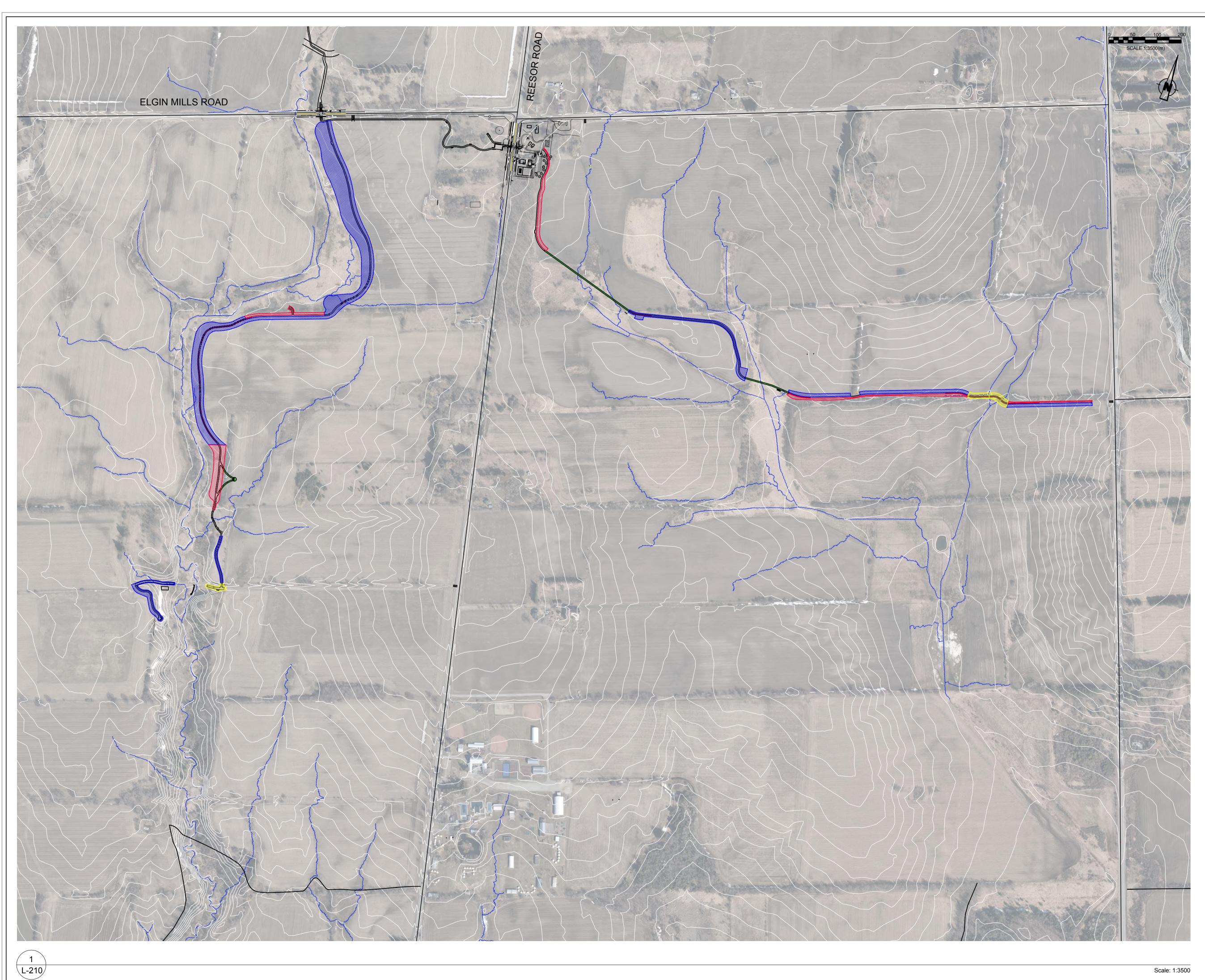
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ISTRUCTION		-	
IAS BEEN RE	VIEWED AND		DIGITAL DATA DISCLAIMER
			BY USING OR REFERENCING THIS DIGITAL DATA, THE RECIPIENT OR THEIR SUB-CONTRACTOR(S) WILL
SEED MIX ES	PERCENT %		 OBLIGE TO THE FOLLOWING TERMS: COMPUTER AIDED DRAFTING AND DESIGN (CADD)
	30		INFORMATION STORED IN ELECTRONIC FORM MUST NOT BE MODIFIED BY OTHER PARTIES, INTENTIONALLY OR OTHERWISE, WITHOUT NOTICE
	30		OR INDICATION OF SAID MODIFICATIONS TO WSP CANADA GROUP LIMITED (WSP).
RDII	10		WSP RESERVES THE RIGHT TO REMOVE ALL INDICES OF ITS OWNERSHIP AND/OR
5	5		INVOLVEMENT IN MATERIAL FROM EACH ELECTRONIC MEDIUM NOT HELD IN ITS
	3		 POSSESSION. THIS MATERIAL SHALL NOT BE USED BY ANY
	2		UNAUTHORIZED PARTY OR TRANSFERRED TO ANY OTHER PARTY FOR USE IN ANY OTHER PROJECTS,
R	2		ADDITIONS TO THE CURRENT PROJECT, OR FOR ANY OTHER PURPOSE FOR WHICH THE MATERIAL WAS NOT STRICTLY INTENDED BY WSP WITHOUT
	2		 WAS NOT STRICTLY INTENDED BY WSP WITHOUT OUR EXPRESS WRITTEN PERMISSION. ANY UNAUTHORIZED MODIFICATION OR REUSE OF
	2		ANY UNAUTHORIZED MODIFICATION OR REUSE OF THE MATERIAL SHALL BE AT YOUR SOLE RISK, AND YOU AGREE TO DEFEND, INDEMNIFY, AND HOLD
GINIANUM	2		WSP HARMLESS FOR ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS
	1		FEES ARISING OUT OF THE UNAUTHORIZED MODIFICATION OR USE OF THESE MATERIALS.
NADENSIS	1		WSP ASSUMES NO OBLIGATION OR LIABILITY FOR THE USE OF CADD INFORMATION AND MAKES NO
	МУ		REPRESENTATIONS OR WARRANTIES REGARDING THE COMPLETENESS OR ACCURACY OF THIS
ILAND EDGE	MIX PERCENT %		CADD INFORMATION.THE RECIPIENT UNDERSTANDS THAT THE USE OF
	35		ANY PROJECT RELATED DIGITAL DATA CONSTITUTES ACCEPTANCE OF THE ABOVE
	35		CONDITIONS.
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KEY MAP

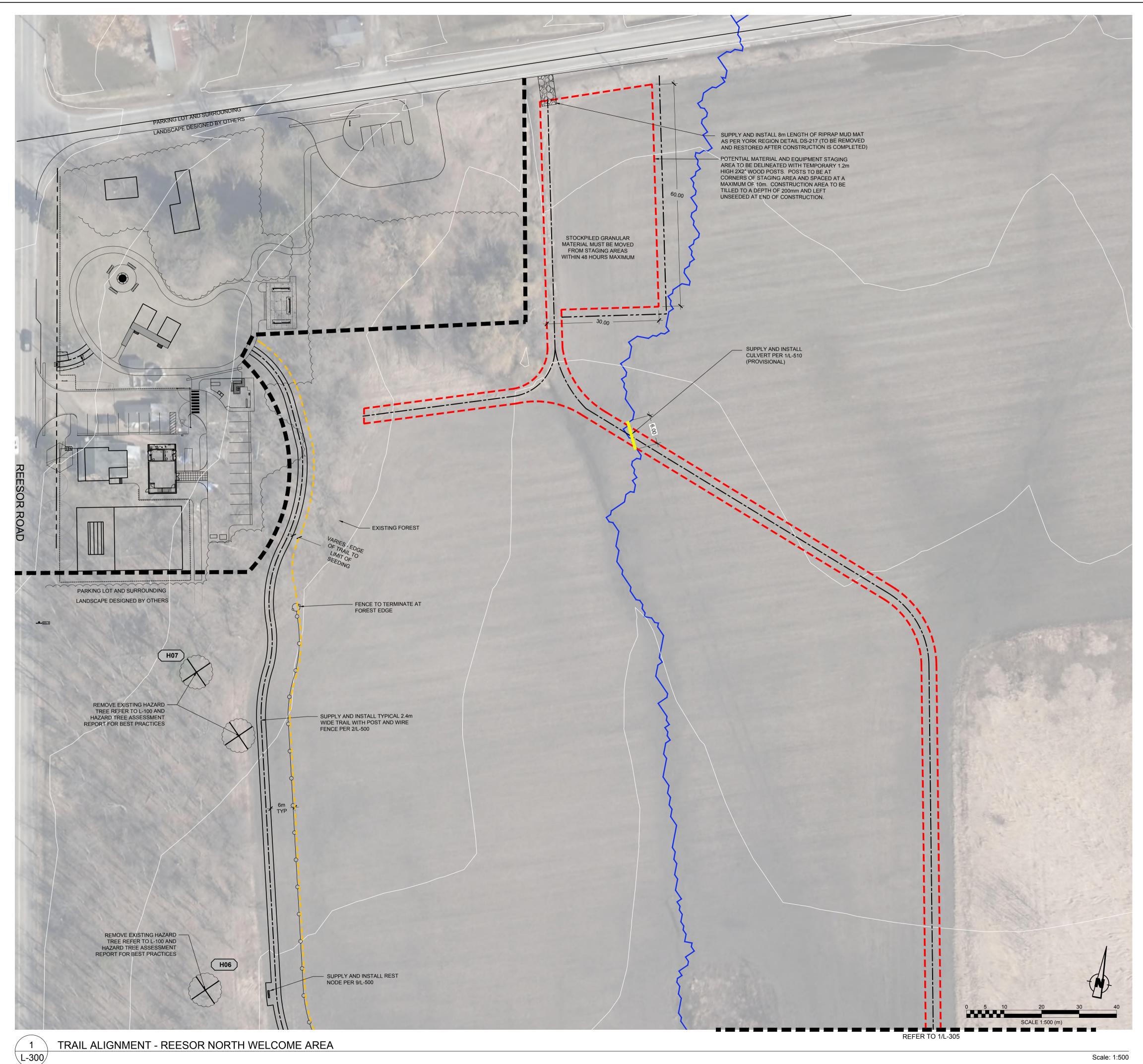


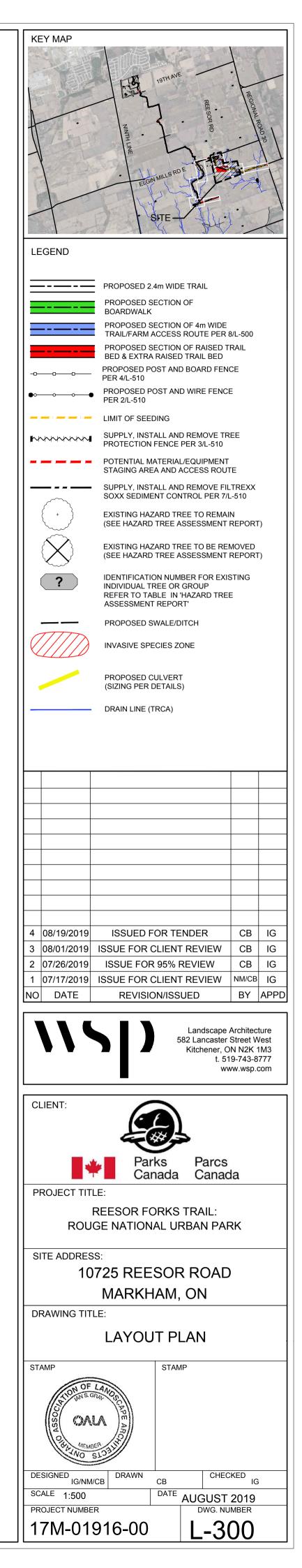
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LEGEND					
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107/17/2019ISSUE FOR CLIENT REVIEWNM/CBIGNODATEREVISION/ISSUEDBYAPPD					
Landscape Architecture 582 Lancaster Street West Kitchener, ON N2K 1M3					
t. 519-743-8777 www.wsp.com					
CLIENT:					
Parks Parcs Canada Canada					
PROJECT TITLE:					
REESOR FORKS TRAIL: ROUGE NATIONAL URBAN PARK					
SITE ADDRESS:					
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PROJECT NUMBER DWG. NUMBER 17M-01916-00 L-200					

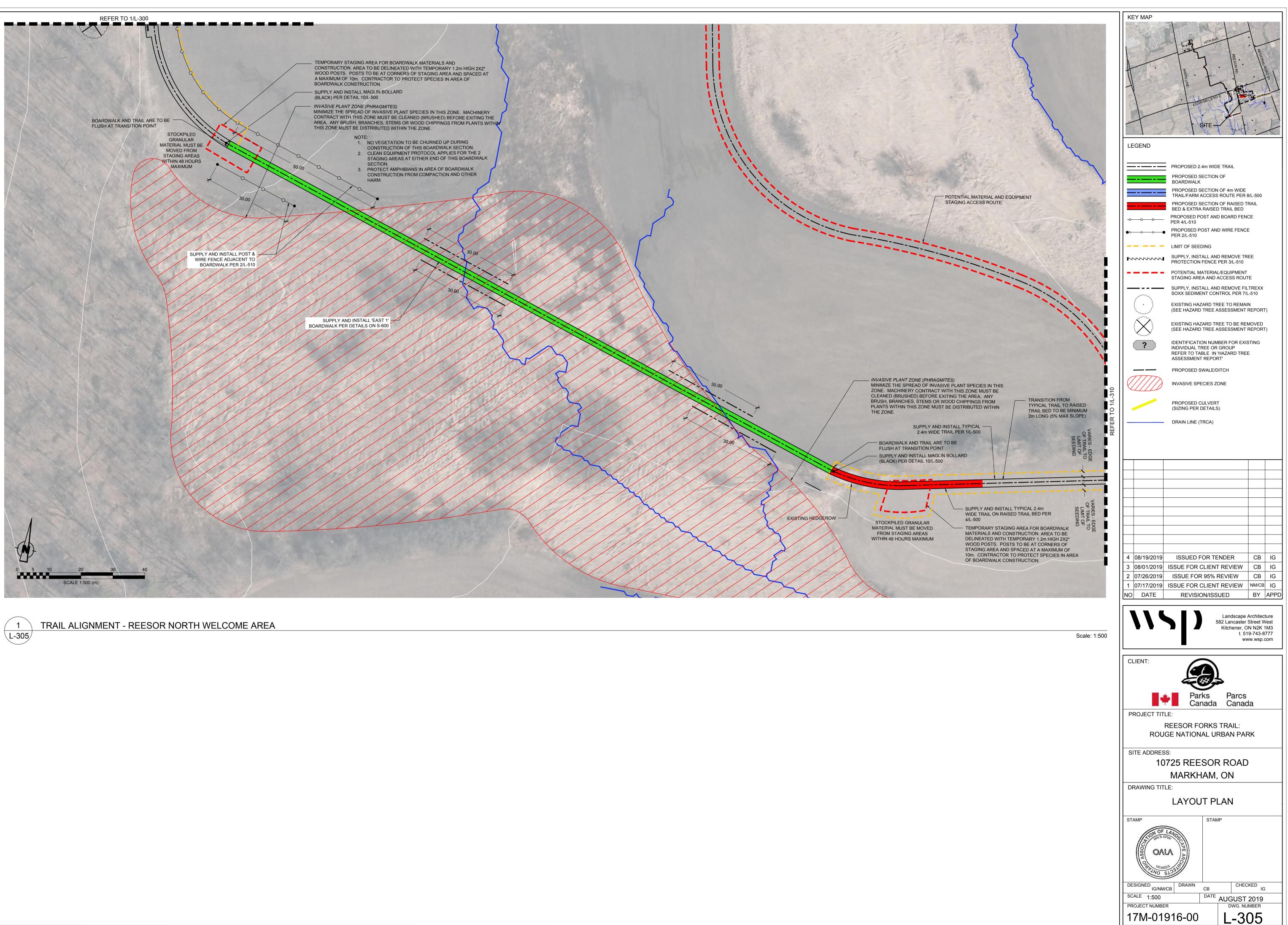
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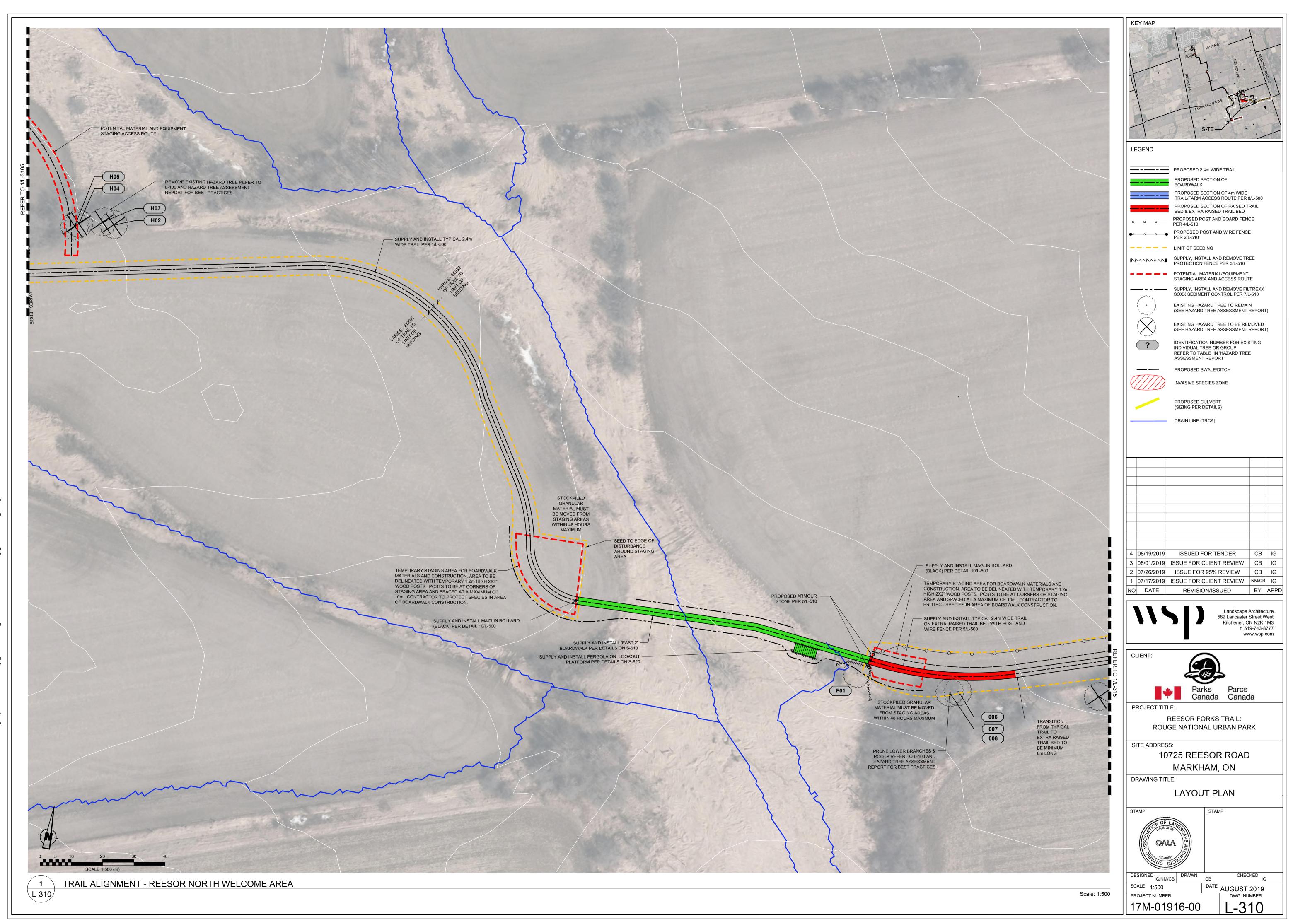


KEY MAP					
LEGEND					
SEED MIX #1 - BOBOLINK & MEADOWLARK SEED MIX					
SEED MIX #2 - STREAM					
CHANNEL AND WETLAND EDGE MIX					
SEED MIX #3 - SEMI-SHADE FOREST EDGE MIX					
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Landscape Architecture					
582 Lancaster Street West Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com					
CLIENT:					
Parks Parcs Canada Canada					
PROJECT TITLE:					
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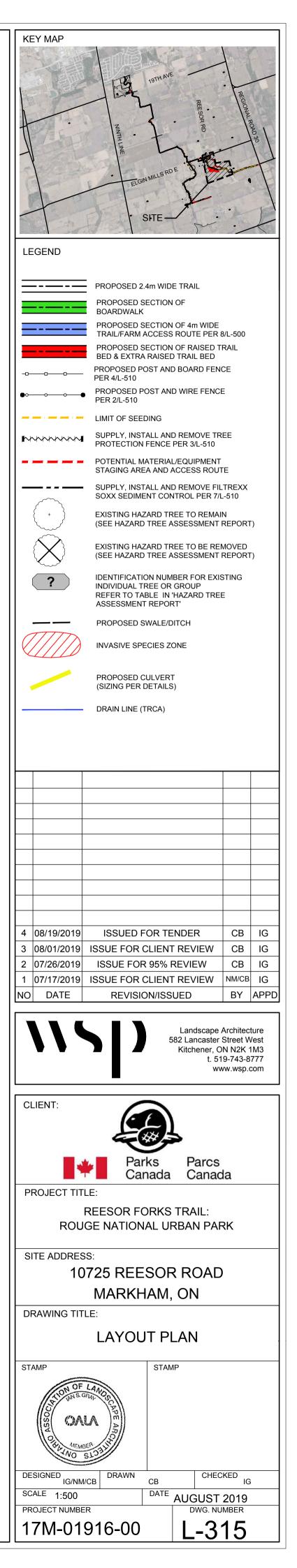
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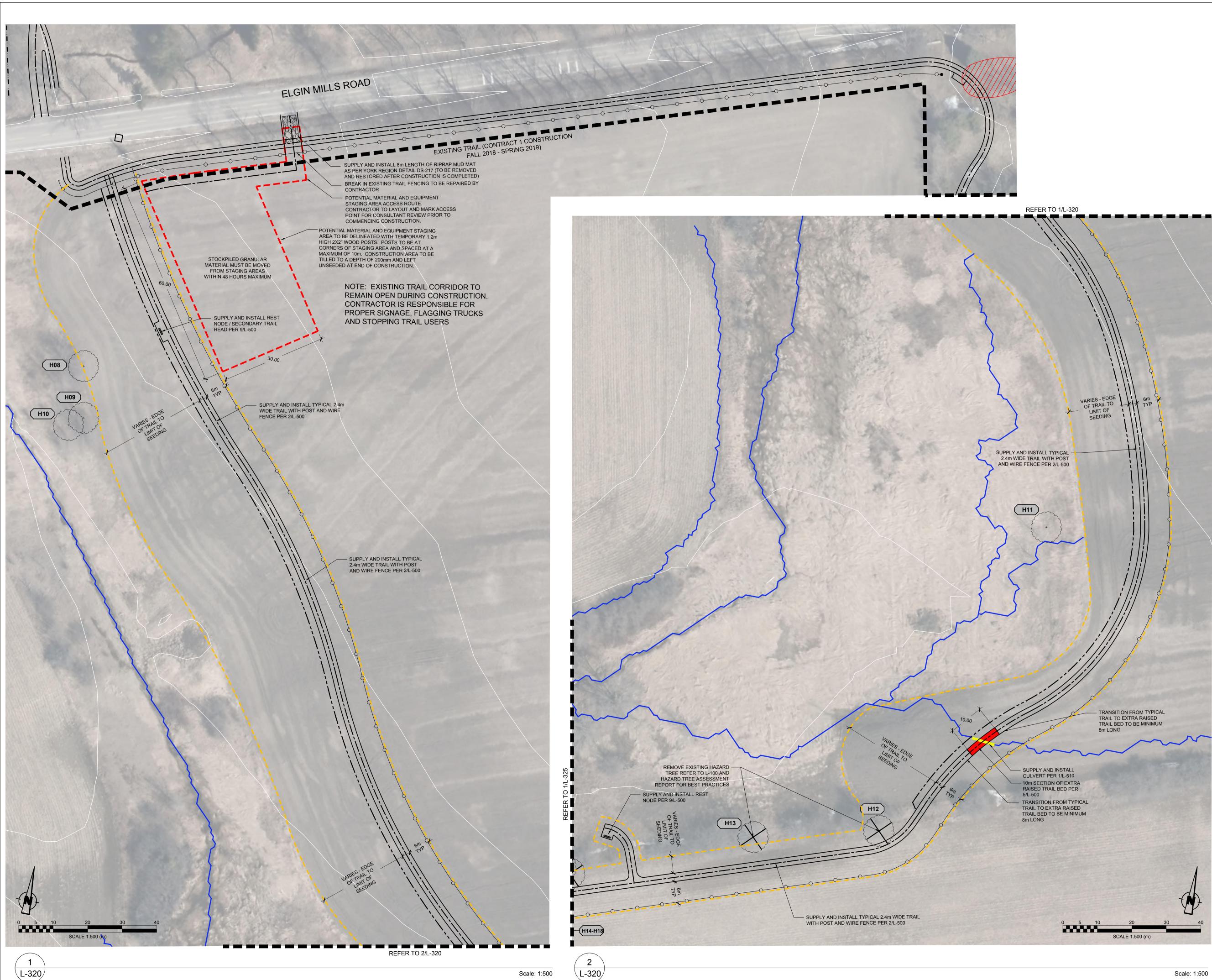
L-310

TRAIL ALIGNMENT - REESOR NORTH WELCOME AREA



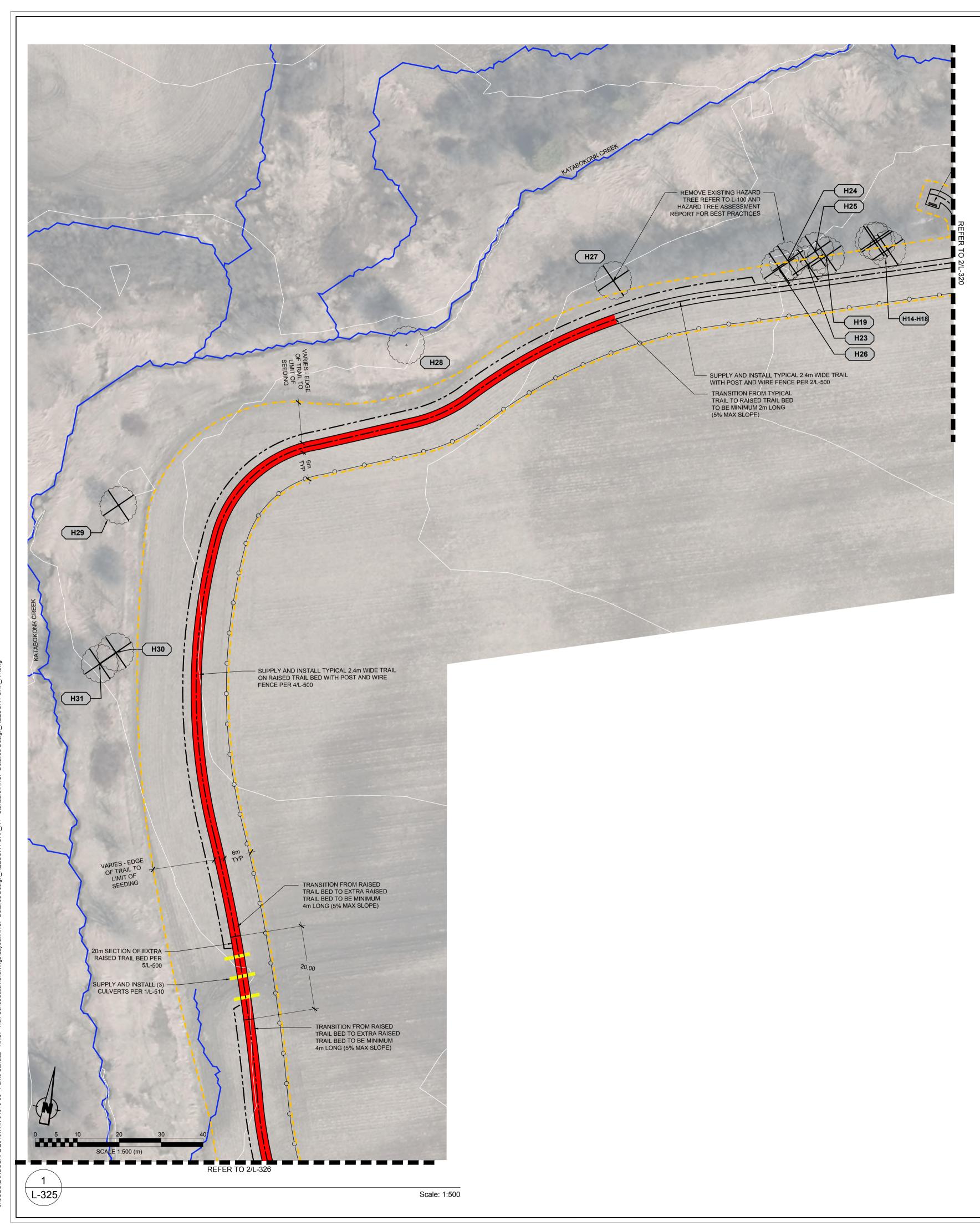
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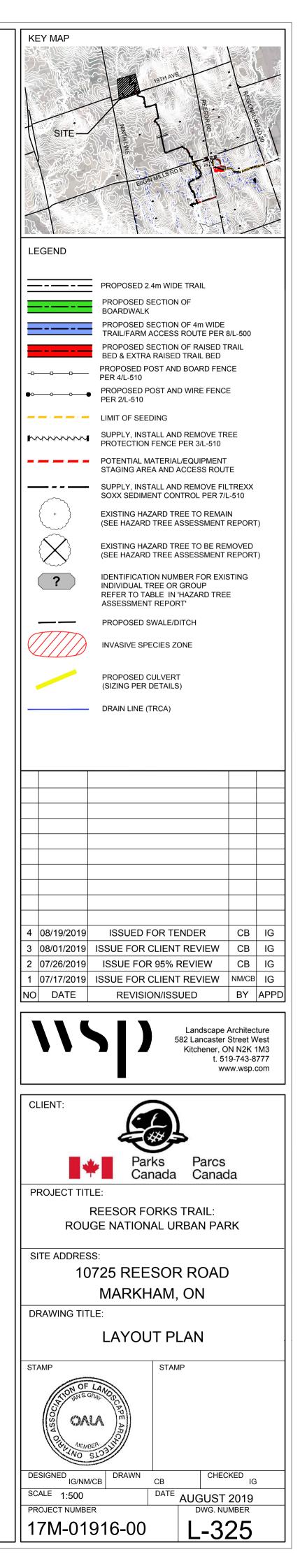


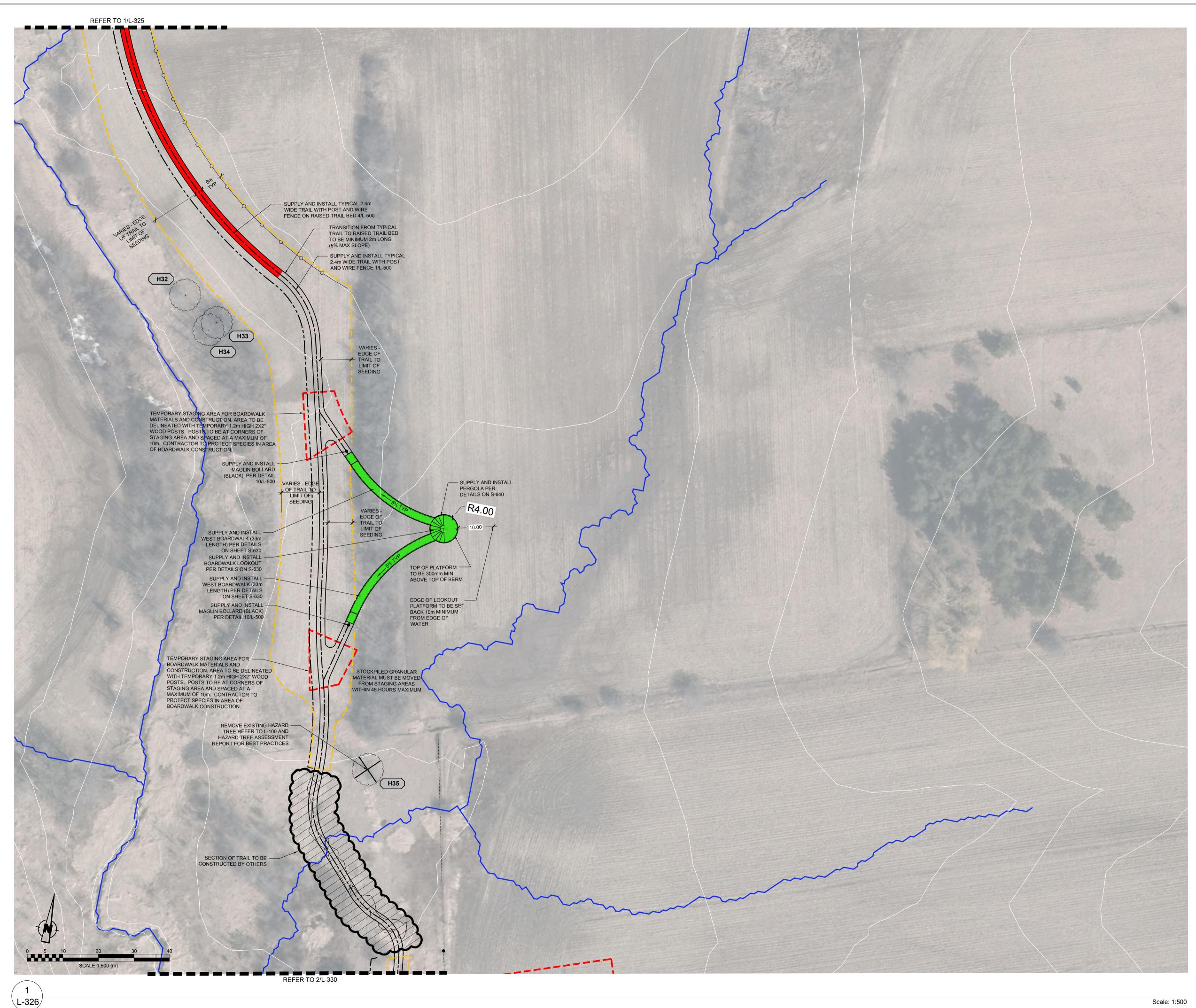


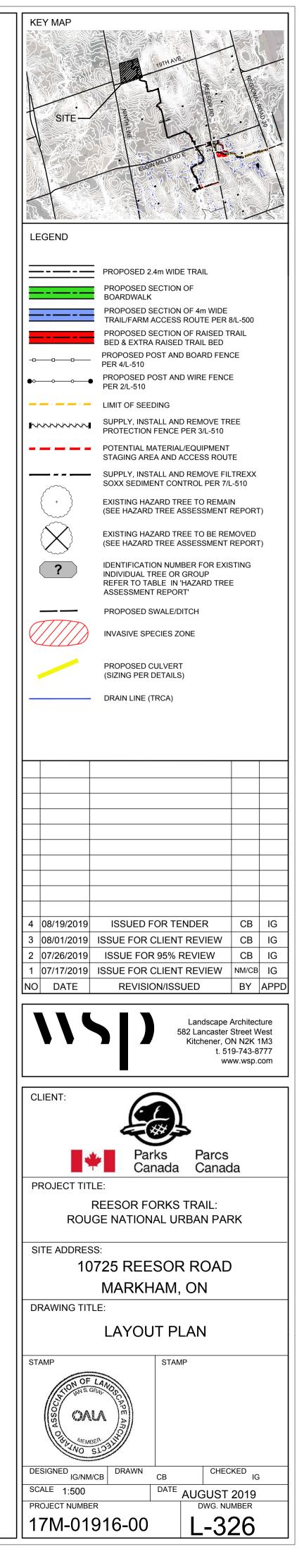
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LEGEND					
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	PROPOSED SECTION OF 4m WIDE TRAIL/FARM ACCESS ROUTE PER				
	PROPOSED SECTION OF RAISED BED & EXTRA RAISED TRAIL BED PROPOSED POST AND BOARD FEN				
••••••	PER 4/L-510 PROPOSED POST AND WIRE FENC PER 2/L-510	E			
	LIMIT OF SEEDING				
	SUPPLY, INSTALL AND REMOVE TF PROTECTION FENCE PER 3/L-510	REE			
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Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com					
CLIENT:					
	Parks Parcs				
Canada Canada PROJECT TITLE:					
REESOR FORKS TRAIL:					
ROUGE NATIONAL URBAN PARK					
SITE ADDRESS: 10725 REESOR ROAD					
MARKHAM, ON					
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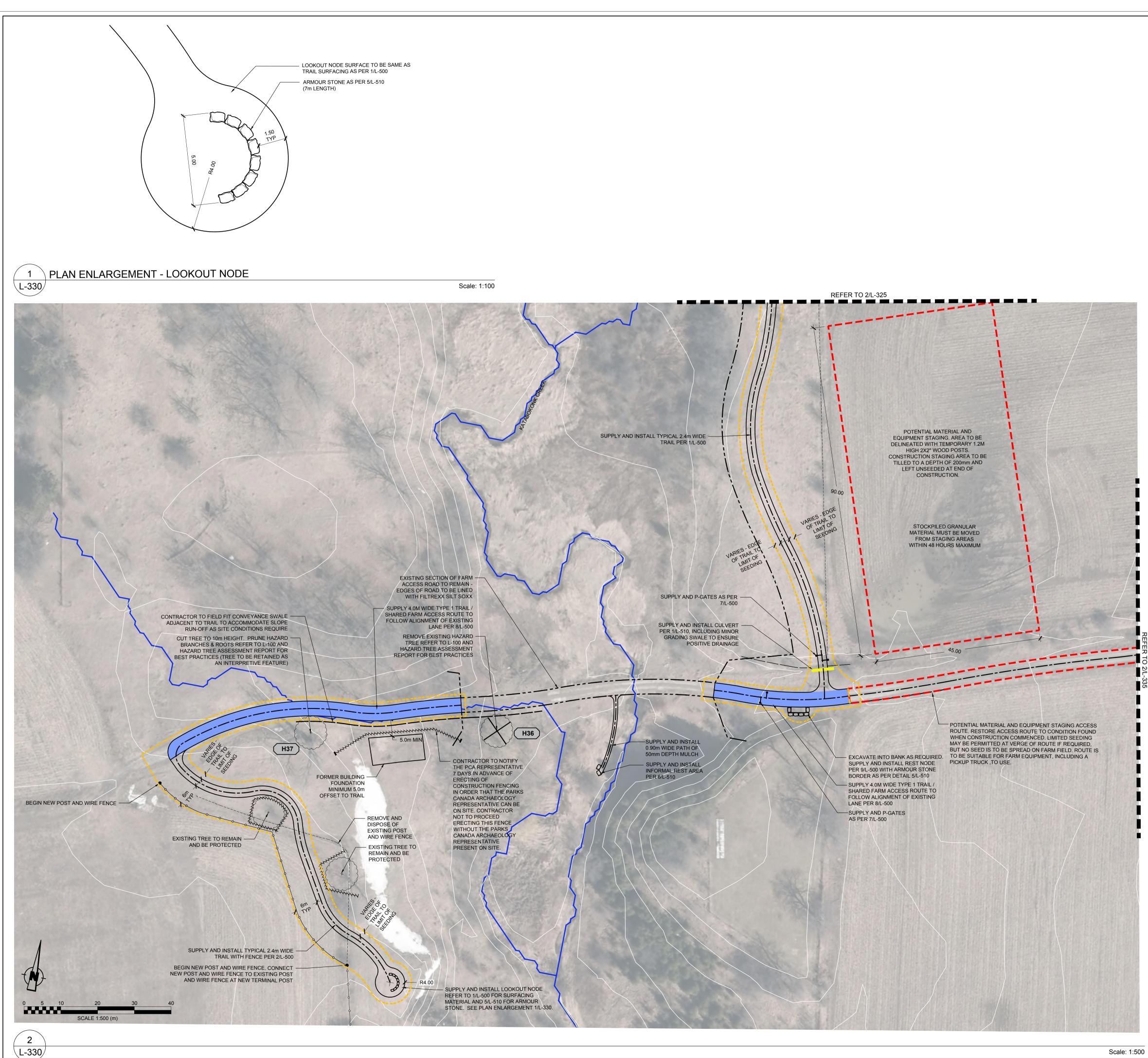
KEY MAP





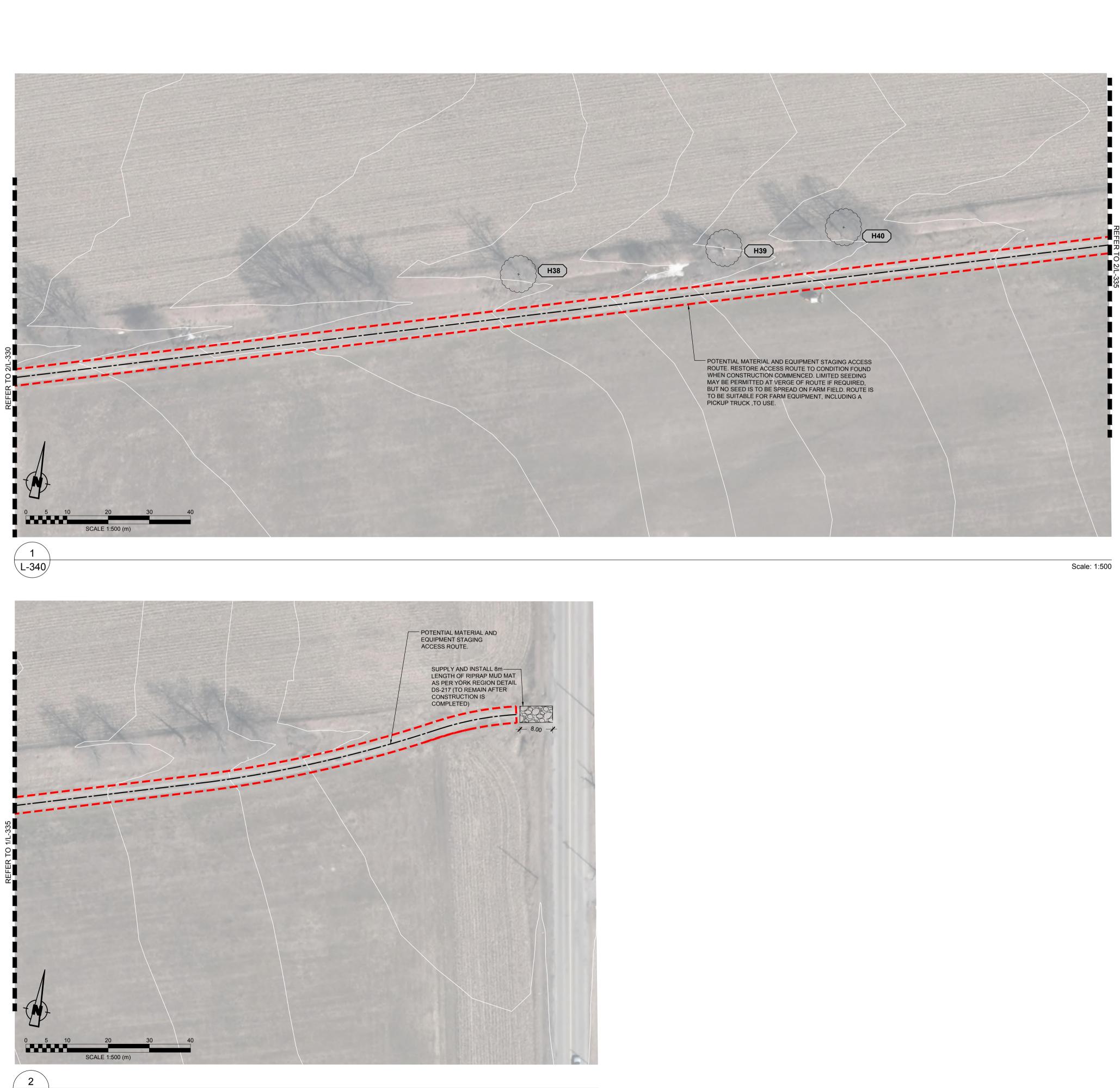






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Landscape Architecture 582 Lancaster Street West Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com						
CLIENT: Parks Parks Canada Project TITLE: REESOR FORKS TRAIL: POLICE MATIONAL LIPPAN PARK						
ROUGE NATIONAL URBAN PARK SITE ADDRESS: 10725 REESOR ROAD						
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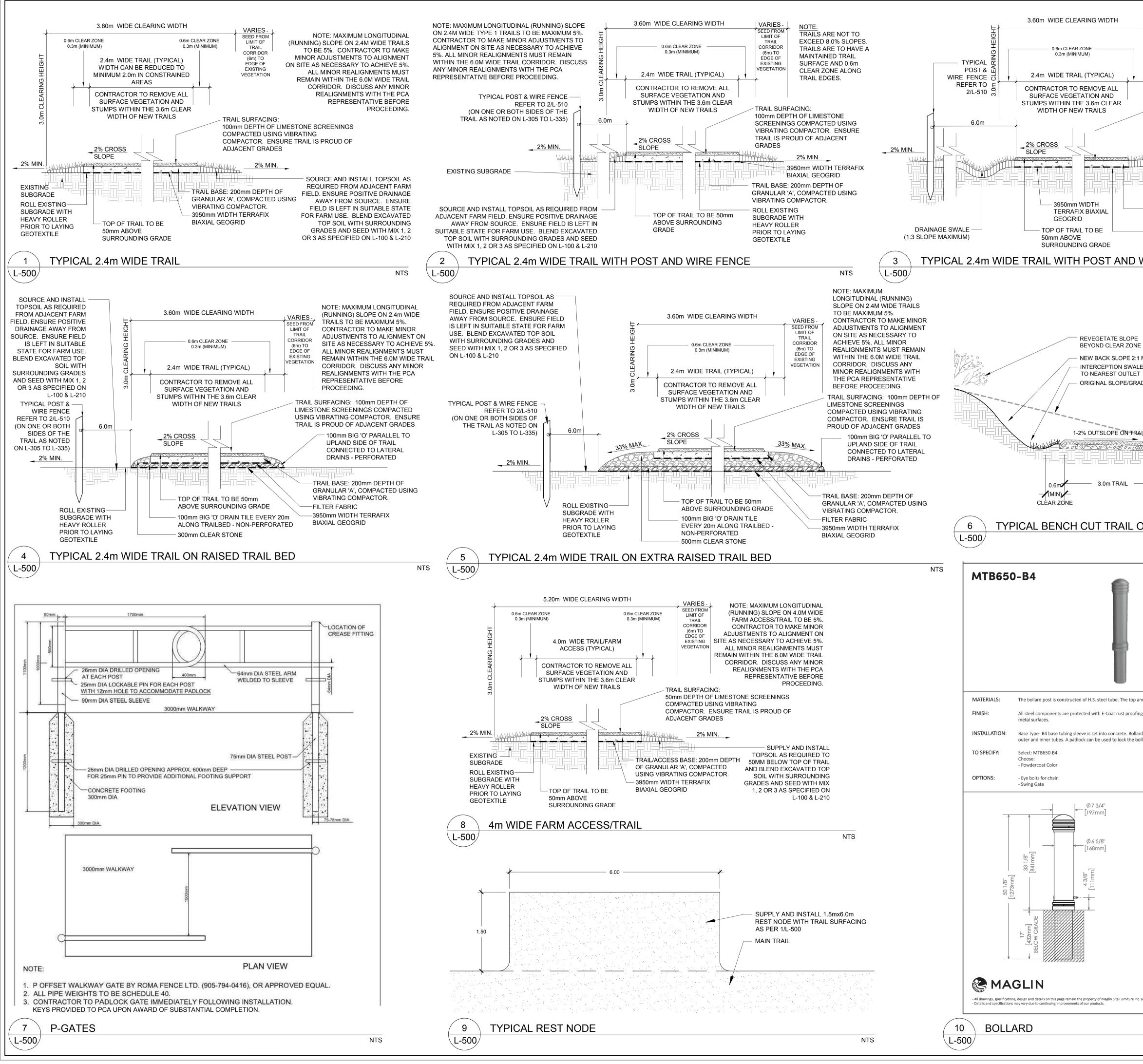
KEY MAP



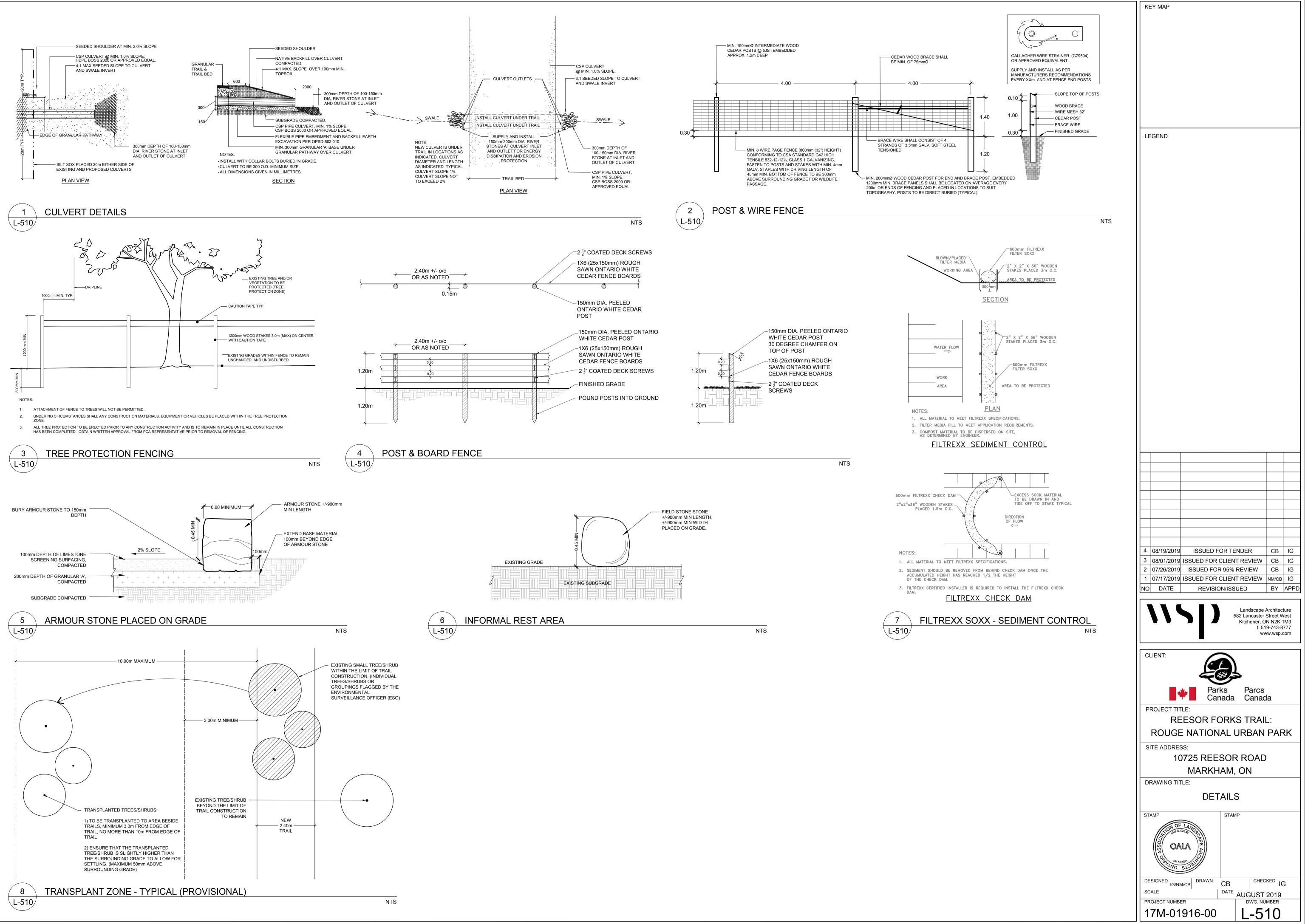
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L-335

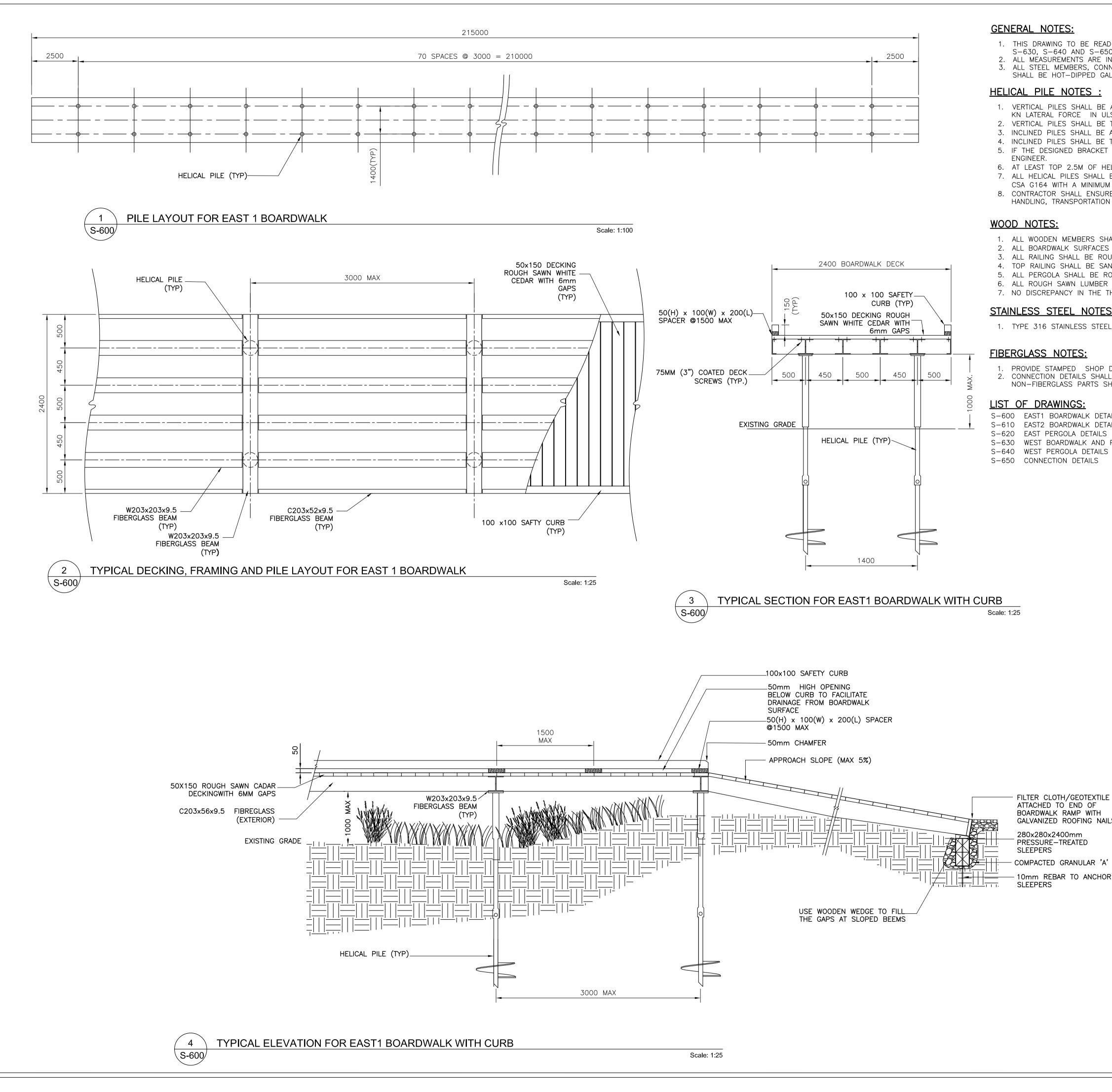
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	PROPOSED SECTION OF BOARDWALK PROPOSED SECTION OF 4m WIDE				
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	 PROPOSED POST AND BOARD FEN PER 4/L-510 PROPOSED POST AND WIRE FEND 				
	PER 2/L-510				
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1 07/17/2019 NO DATE	ISSUE FOR CLIENT REVIEW REVISION/ISSUED	NM/CB	IG APF		
Landscape Architecture 582 Lancaster Street West Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com					
CLIENT:					
Parks Parcs Canada Canada					
PROJECT TITLE: REESOR FORKS TRAIL:					
ROUGE NATIONAL URBAN PARK					
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17M-0 ⁻	1916-00 L-3	35			



NOTE: MAXIMUM LONGITUDINAL (RUNNING) SLOPE ON 2.4M WIDE TYPE TO BE MAXIMUM 5%. CONTRACTOR TO MAKE MINOR ADJUSTMENTS TO ALIGNMENT ON SITE AS NECESSARY TO ACHIEVE 5%. ALL MINOR REALIGNMENTS MUST REMAIN WITHIN THE 6.0M WIDE TRAIL CORRIDOR. DISCUSS ANY MINOR REALIGNMENTS WITH THE PCA REPRESENTATIVE BEFORE PROCEEDING. TRAIL SURFACING: 100mm DEPTH OF LIMESTONE SCREENINGS COMPACTED USING VIBRATING COMPACTOR. ENSURE TRAIL IS PROUD OF ADJACENT GRADES	KEY MAP
SOURCE AND INSTALL TOPSOIL AS REQUIRED FROM ADJACENT FARM FIELD. ENSURE POSITIVE DRAINAGE AWAY FROM SOURCE. ENSURE FIELD IS LEFT IN SUITABLE STATE FOR FARM USE. BLEND EXCAVATED TOP SOIL WITH SURROUNDING GRADES AND SEED WITH MIX 1, 2 OR 3 AS SPECIFIED ON L-100 & L-210 TRAIL BASE: 200mm DEPTH OF GRANULAR 'A', COMPACTED USING VIBRATING COMPACTOR. ROLL EXISTING SUBGRADE WITH HEAVY ROLLER PRIOR TO	LEGEND
MAX E, CONVEY DE MAX E, CONVEX DE MAX E, CONVEX D CLEAR ZONE	
ON SLOPE	
NTS	
650 Series	
	Image: style of the style of
d bottom are capped with cast aluminum parts. g. The Maglin Powdercoat System provides a durable finish on all d slides over sleeve and is fastened together by a pin through the	Landscape Architecture 582 Lancaster Street West Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com
lard in position. This bollard type is easy to remove frequently.	CLIENT:
DIMENSIONS: Height: 33.13" (84.1cm) Below Grade: 17" (43.2cm) Diameter: 6.625" (16.8cm) Weight: 85.06lbs (38.6kg)	Canada Canada PROJECT TITLE: REESOR FORKS TRAIL: ROUGE NATIONAL URBAN PARK SITE ADDRESS: 10725 REESOR ROAD MARKHAM, ON DRAWING TITLE: DETAILS STAMP STAMP STAMP
T 800-716-5506 F 877-260-9393 www.maglin.com sales@maglin.com	DESIGNED IG/NM/CB DRAWN CB CHECKED IG SCALE DATE AUGUST 2019 PROJECT NUMBER DWG. NUMBER
NIS	17M-01916-00 L-500



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GENERAL NOTES:

- 1. THIS DRAWING TO BE READ IN CON
- S-630, S-640 AND S-650. 2. ALL MEASUREMENTS ARE IN MILLIM
- 3. ALL STEEL MEMBERS, CONNECTION
- SHALL BE HOT-DIPPED GALVANIZE

HELICAL PILE NOTES :

- 1. VERTICAL PILES SHALL BE ABLE TO
- KN LATERAL FORCE IN ULS.
- 2. VERTICAL PILES SHALL BE TESTED 3. INCLINED PILES SHALL BE ABLE TO
- 4. INCLINED PILES SHALL BE TESTED
- 5. IF THE DESIGNED BRACKET DOES
- 6. AT LEAST TOP 2.5M OF HELICAL F
- 7. ALL HELICAL PILES SHALL BE HOT

CSA G164 WITH A MINIMUM COATIN 8. CONTRACTOR SHALL ENSURE THE

HANDLING, TRANSPORTATION AND E

WOOD NOTES:

- 1. ALL WOODEN MEMBERS SHALL BE
- 2. ALL BOARDWALK SURFACES SHALL 3. ALL RAILING SHALL BE ROUGH SAW
- 4. TOP RAILING SHALL BE SANDED.
- 5. ALL PERGOLA SHALL BE ROUGH SA
- 6. ALL ROUGH SAWN LUMBER TO BE 7. NO DISCREPANCY IN THE THICKNES
- STAINLESS STEEL NOTES:

1. TYPE 316 STAINLESS STEEL SHALL

FIBERGLASS NOTES:

1. PROVIDE STAMPED SHOP DRAWING 2. CONNECTION DETAILS SHALL BE DE NON-FIBERGLASS PARTS SHALL BE

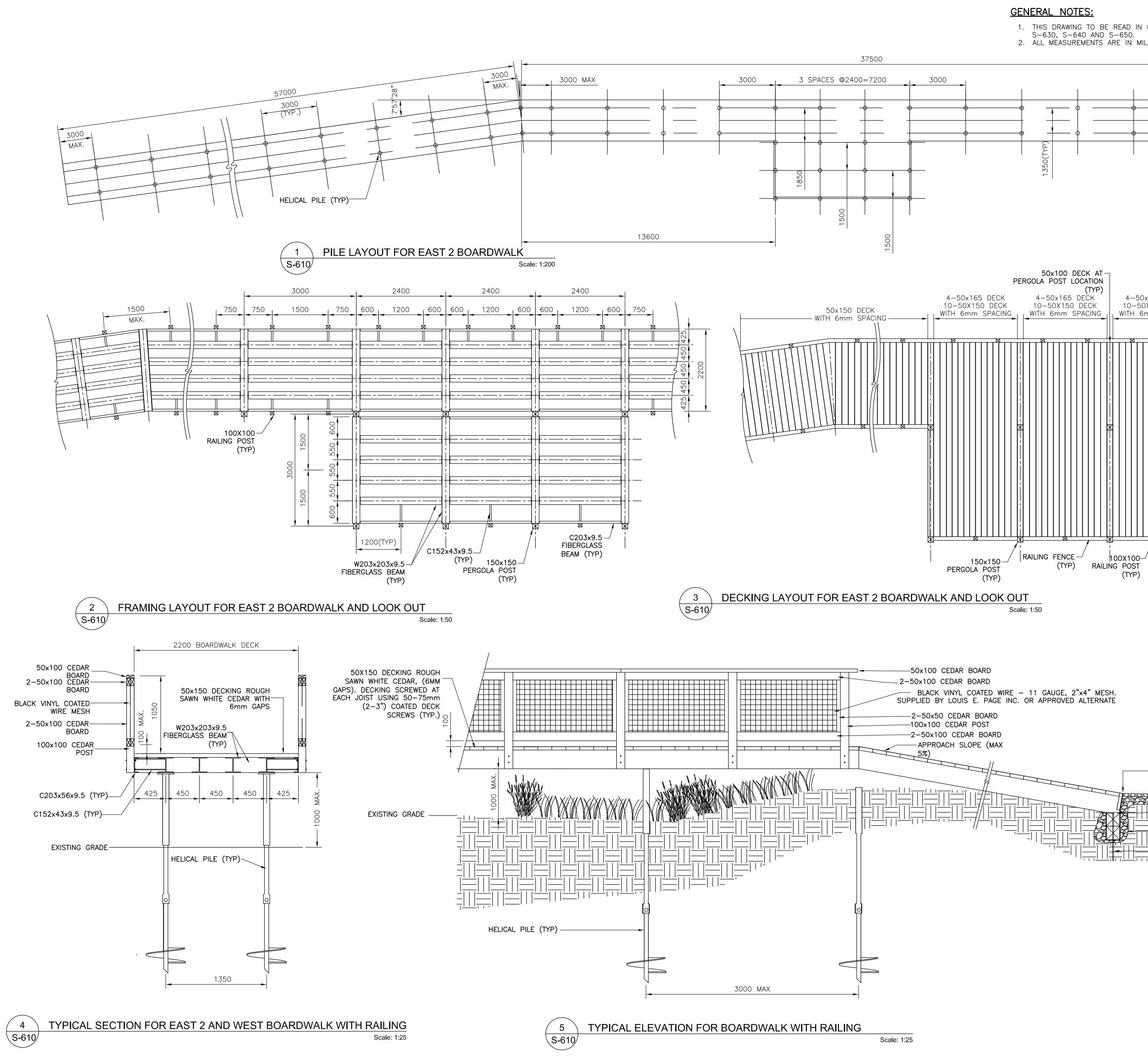
LIST OF DRAWINGS:

- S-600 EAST1 BOARDWALK DETAILS S-610 EAST2 BOARDWALK DETAILS S-620 EAST PERGOLA DETAILS
- S-630 WEST BOARDWALK AND PLATFOR
- S-640 WEST PERGOLA DETAILS
- S-650 CONNECTION DETAILS

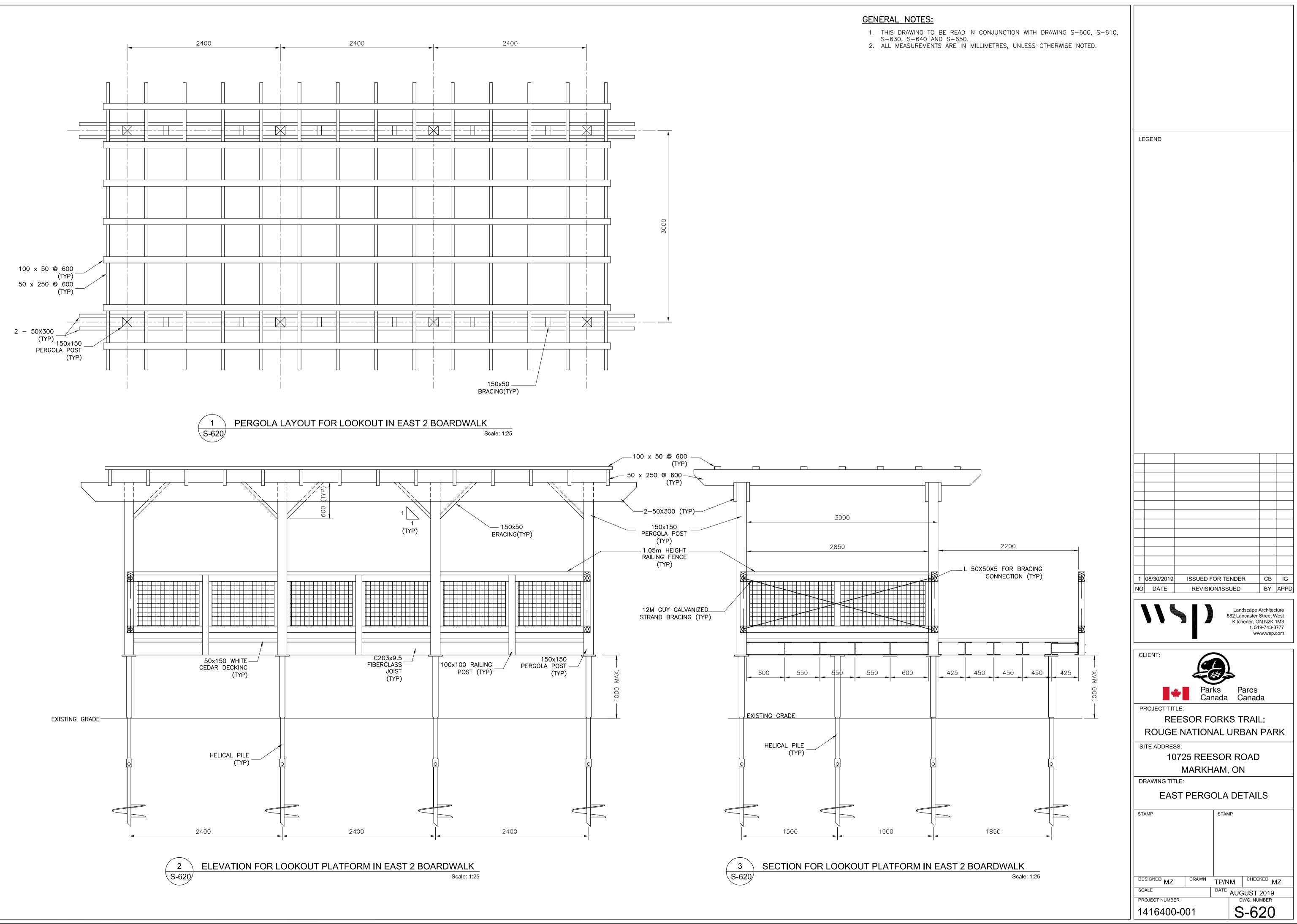
ATTACHED TO END OF BOARDWALK RAMP WITH GALVANIZED ROOFING NAILS 280x280x2400mm PRESSURE-TREATED

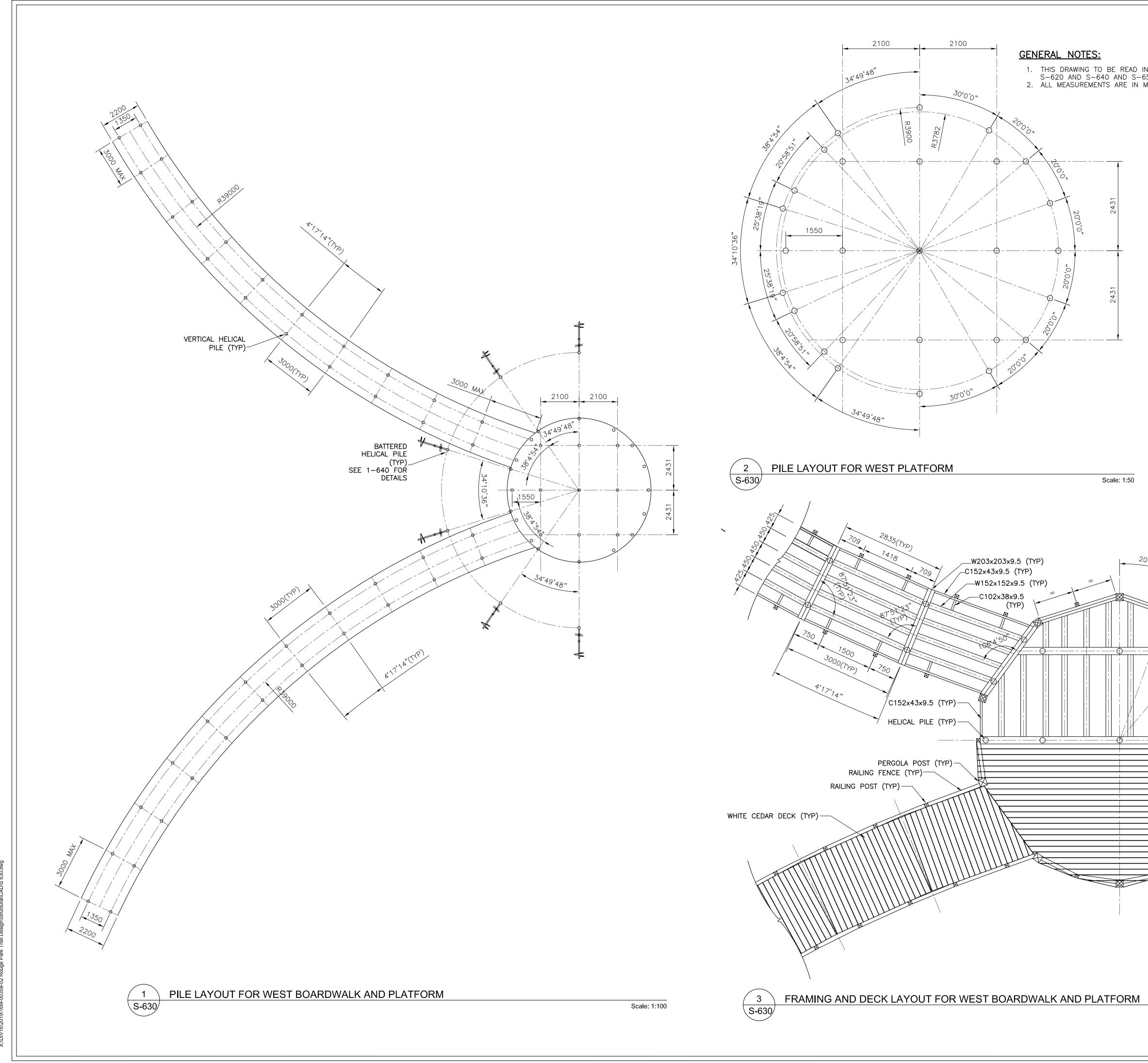
- SLEEPERS
- COMPACTED GRANULAR 'A'
- 10mm REBAR TO ANCHOR SLEEPERS

NUNCTION WITH DRAWING S-610, S-620, METRES, UNLESS OTHERWISE NOTED. IS, AND BOLTS EXCEPT STAINLESS STEEL D AFTER FABRICATION.				
O CARRY 30 KN VERTICAL FORCE AND 5				
FOR 60 KN. D WITHSTAND 10 KN UPLIFT IN ULS. FOR 20 KN. NOT FIT THE HELICAL PILE, INFORM THE				
PIPES SHALL BE MINIMUM HSS 141x7mm. DIP GALVANIZED IN ACCORDANCE WITH NG OF 600 G/M. STABILITY OF ALL COMPONENTS DURING ERECTION.	LEGEND			
SS GRADE. BE ROUGH SAWN ONTARIO WHITE CEDAR. WN ONTARIO WHITE CEDAR.				
AWN DOUGLAR FIR. FULL DIMENSIONAL SIZES. SS OF DECK BOARD.				
BE USED				
GS. ESIGNED BY FABRICATOR. ALL E STAINLESS STEEL.				
RM DETAILS				
	Image: Constraint of the second se			
	1 08/30/2019 ISSUED FOR TENDER CB IG NO DATE REVISION/ISSUED BY APPD			
	Landscape Architecture 582 Lancaster Street West Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com			
	CLIENT:			
	Parks Parcs Canada Canada PROJECT TITLE: REESOR FORKS TRAIL: ROUGE NATIONAL URBAN PARK SITE ADDRESS: 10725 REESOR ROAD MARKHAM, ON			
	DRAWING TITLE: EAST1 BOARDWALK DETAILS			
	STAMP STAMP			
	DESIGNED MZ DRAWN TP/NM CHECKED MZ SCALE DATE AUGUST 2019			
	PROJECT NUMBER DWG. NUMBER 1416400-001 S-600			



CONJUNCTION WITH DRAWING S-600, S-620, LLIMETRES, UNLESS OTHERWISE NOTED.	LEGEND
1165 DECK mm SPACING WITH 6mm SPACING	
FILTER CLOTH/GEOTEXTILE ATTACHED TO END OF BOARDWALK RAMP WITH GALVANIZED ROOFING NAILS (2) 140x140x2400mm PRESSURE-TREATED SLEEPERS COMPACTED GRANULAR 'A' 10mm REBAR TO T- ANCHOR SLEEPERS	Image: Constraint of the second se
	DESIGNED MZDRAWNTP/NMCHECKED MZSCALEDATE AUGUST 2019PROJECT NUMBERDWG. NUMBER1416400-001S-610





IN CONJUNCTION WITH DRAWING S-600, S-610, 650. MILLIMETRES, UNLESS OTHERWISE NOTED.	LEGEND	
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