TOWNSHIP OF WILMOT

NEW HAMBURG NITH RIVER PROMINADE



Project No. 211-05070-00 SUMMER 2022

LOCATION KEY MAP:



DRAWING INDEX

SECTIONS

SECTIONS

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L-610

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PREPARED BY:



MM/DD andscape∖Jobs∖2021∖211-05070-00 Township of Wilmot - New Hamburg Nith River Promenade∖09 Drawings\CAD\PRODUCTION_New Hamburg Promenac

- CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY ERRORS, OMISSIONS, AND / OR DISCREPANCIES TO CONTRACT ADMINISTRATOR IN WRITING PRIOR TO CONSTRUCTION. PROPERTY LINES TO BE VERIFIED PRIOR TO INITIATING ANY
- 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.

- ullet 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 CONTRACT ADMINISTRATOR. THE CONTRACTOR MAY BE HELD RESPONSIBLE TO REMOVE ANY CHANGES MADE WITHOUT WRITTEN PERMISSION OF THE CONTRACT ADMINISTRATOR.
- 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 TO ENSURE PROPER DEPTH OF EXCAVATIONS ACCOMMODATE HARD SURFACE AND LANDSCAPING AS SPECIFIED ON THESE DRAWINGS.
- 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
- QUALIFIED REGISTERED LAND SURVEYOR (OLS), ACCEPTABLE TO OWNER. 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
- THE CONTRACTOR SHALL RETAIN AN INDEPENDENT INSPECTION AND TESTING COMPANY TO ENSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. TESTING SHALL INCLUDE REINFORCING STEEL PLACEMENT, CONCRETE TESTS, SOIL BEARING AND COMPACTION TESTS AND STRUCTURAL STEEL.
- SUBSTITUTIONS FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR 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.

SITE PREPARATION NOTES:

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL AREAS WITHIN THE LIMIT OF THE CONTRACT.
- CONTRACTOR TO WORK WITHIN GUIDELINES FOR THE MUNICIPALITY'S NOISE BY-LAWS.
- ANY REFUSE, GARBAGE, OR OTHER DEBRIS ON SITE MUST BE REMOVED AND DISPOSED OF OFF SITE AT THE EXPENSE OF THE CONTRACTOR.
- AREAS TO BE SODDED SHALL BE BACKFILLED WITH NATIVE SOIL TO 150mm BELOW FINISHED GRADE TO ALLOW FOR TOPSOIL INSTALLATION.
- CONTRACTOR TO DETERMINE A SINGLE POINT OF CONSTRUCTION ACCESS AND RESTORE BOULEVARD TO EXISTING OR BETTER CONDITION AFTER THE COMPLETION OF CONSTRUCTION.
- ABSOLUTELY NO STORAGE OF EQUIPMENT OR MATERIALS OUTSIDE OF CONSTRUCTION FENCING.

TREE PROTECTION NOTES:

- WHERE TREES LOCATED WITHIN THE PROJECT AREA THAT IT HAS BEEN DETERMINED THE FEASIBILITY FOR PRESERVATION IS GOOD, TREE PROTECTION BARRIERS ARE PROPOSED TO ESTABLISH A TREE PROTECTION ZONE (REFER TO CONSTRUCTION DRAWINGS). ALL TREES LOCATED ON ADJACENT PROPERTIES SHALL BE PRESERVED.
- THE TREE PROTECTION ZONE SHALL BE ESTABLISHED BY THE INSTALLATION OF TREE PROTECTION FENCING. THE TREE PROTECTION FENCING SHALL FOLLOW MUNICIPAL GUIDELINES AND/OR REQUIREMENTS UNLESS STATED OTHERWISE WITHIN THE CONSTRUCTION DRAWINGS.
- TREE PROTECTION BARRIERS ARE TO BE ERECTED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR GRADING ACTIVITIES ON THE SITE AND ARE TO REMAIN IN PLACE THROUGHOUT THE ENTIRE DURATION OF THE PROJECT. THE APPLICANT SHALL NOTIFY THE MUNICIPALITY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES TO CONFIRM THAT THE TREE PROTECTION BARRIERS ARE IN PLACE.
- ALL SUPPORTS AND BRACING USED TO SAFELY SECURE THE BARRIER SHOULD BE LOCATED OUTSIDE THE TREE. PROTECTION ZONE. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS.
- WHERE SOME FILL OR EXCAVATED MATERIAL MUST BE TEMPORARILY LOCATED NEAR THE TREE PROTECTION ZONE. A WOODEN BARRIER MUST BE USED TO ENSURE NO MATERIAL(S) ENTERS THE TREE PROTECTION ZONE.
- ALL TREES LOCATED WITHIN THE PROJECT AREA DESIGNATED FOR PRESERVATION, OR DENOTED EXISTING, AND ALL TREES LOCATED ON ADJACENT PROPERTIES SHALL BE PRESERVED. IN THE EVENT THAT ANY TREES DESIGNATED FOR PRESERVATION LOCATED WITHIN THE PROJECT AREA OR ON ADJACENT PROPERTIES ARE DAMAGED OR KILLED BY THE ACTIONS OF A CONTRACTOR OR THEIR AGENTS/SUB-CONTRACTORS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF THE DESTROYED PLANT MATERIAL WITH MATERIAL OF EQUAL VALUE AND COMPARABLE SPECIES TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND/OR PROJECT ARBORIST
- AREAS WITHIN THE DRIPLINE OF THE TREES DESIGNATED FOR PRESERVATION ARE NOT TO BE USED FOR ANY TYPE OF STORAGE (I.E. STORAGE OF DEBRIS, CONSTRUCTION MATERIAL, SURPLUS SOILS, AND CONSTRUCTION EQUIPMENT). NO TRENCHING OR TUNNELING FOR UNDERGROUND SERVICES SHALL BE LOCATED WITHIN THE TREE PROTECTION ZONE OR DRIPLINE OF TREES DESIGNATED FOR PRESERVATION WITHIN OR ADJACENT TO CONSTRUCTION ZONE.
- NO GRADE CHANGES SHALL OCCUR WITHIN TREE PROTECTION ZONE. IN THE EVENT THAT GRADE CHANGES MAY OCCUR THE CONSULTING ARBORIST MUST BE NOTIFIED SO THAT PRECAUTIONS TO PRESERVE THE TREE, SUCH DRY WELLING OR ROOT FEEDING CAN BE DETERMINED PRIOR TO THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES.
- TREES SHALL NOT HAVE ANY RIGGING CABLES OR HARDWARE OF ANY SORT ATTACHED OR WRAPPED AROUND THEM. NOR SHALL ANY CONTAMINANTS BE DUMPED WITHIN THE PROTECTIVE AREAS. FURTHERMORE, NO CONTAMINANTS SHALL BE DUMPED OR FLUSHED WHERE THEY MAY COME IN CONTACT WITH THE FEEDER ROOTS OF THE TREES.
- THE CONTRACTOR WILL TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO TREES OR SHRUBS. THE CONTRACTOR WILL TAKE EVERY PRECAUTION TO PROTECT PLANT AND ROOT SYSTEMS FROM DAMAGE, COMPACTION AND CONTAMINATION RESULTING FROM THE CONSTRUCTION TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND/OR CONSULTING ARBORIST.
- TREES THAT REQUIRE PRUNING PRIOR TO CONSTRUCTION TO PERMIT CONSTRUCTION ACTIVITIES, HAVE BEEN IDENTIFIED IN THE CONSTRUCTION DRAWINGS. IN THE EVENT THAT IT IS NECESSARY TO REMOVE ADDITIONAL LIMBS OR PORTIONS OF TREES AFTER CONSTRUCTION HAS COMMENCED, TO ACCOMMODATE CONSTRUCTION, THE CONTRACT ADMINISTRATOR AND/OR CONSULTING ARBORIST IS TO BE INFORMED AND THE REMOVAL IS TO BE EXECUTED CAREFULLY AND IN FULL ACCORDANCE WITH ARBORICULTURAL TECHNIQUES BY A CERTIFIED ARBORIST.
- DURING EXCAVATION OPERATIONS IN WHICH ROOTS ARE AFFECTED, THE CONTRACTOR IS TO PRUNE ALL EXPOSED ROOTS CLEANLY. PRUNE ENDS TO POINT OBLIQUELY DOWNWARDS THE EXPOSED ROOTS SHOULD NOT BE ALLOWED TO DRY OUT, AND THE CONTRACTOR SHALL DISCUSS WATERING THE ROOTS WITH THE OWNER AND CONTRACT ADMINISTRATOR SO THAT THE ROOTS SHALL MAINTAIN OPTIMUM SOIL MOISTURE DURING CONSTRUCTION AND BACKFILLING OPERATIONS. BACKFILLING MUST BE WITH CLEAN UNCONTAMINATED TOPSOIL FROM AN APPROVED SOURCE.
- THE CONTRACTOR MUST REPORT IMMEDIATELY ANY DAMAGE TO TREES SUCH AS BROKEN LIMBS, DAMAGE TO ROOTS OR WOUNDS TO THE MAIN TURN OR STEM SYSTEMS SO THAT THE DAMAGE CAN BE ADDRESSED IMMEDIATELY.
- ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND THE TREE PROTECTION ZONE(S) INDICATED ON THIS PLAN WHICH REQUIRE PRUNING, MUST BE PRUNED BY A CERTIFIED ARBORIST OR OTHER TREE PROFESSIONAL AS APPROVED BY THE GOVERNING MUNICIPALITY. ALL PRUNING OF TREE ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORICULTURAL STANDARDS.
- ALL TREE REMOVALS MUST BE COMPLETED PER THE MIGRATORY BIRD CONVENTION ACT (1994)

SEDIMENTATION CONTROL

- ALL SILTATION CONTROL FENCING SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF EXCAVATION OR
- 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.
- FOLLOWING COMPLETION OF CONSTRUCTION, COLLECTED SILT SHALL BE DISPOSED OFF-SITE, SILT FENCE SHALL BE REMOVED AND THE AFFECTED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE APPROVED
- ALL ON-SITE STORAGE OF GRANULAR MATERIALS WILL BE ISOLATED AND SECURED WITH SILT FENCING
- NO IN-WATER WORKS ARE PERMITTED.
- NO VEHICLES OR EQUIPMENT WILL BE REFUELLED WITHIN 30 METRES OF THE WATERCOURSE.
- NO MATERIAL WILL BE STOCKPILED ON THE WATERCOURSE BANKS.
- 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 CONTRACT ADMINISTRATOR ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED SHOULD THE EROSION AND SEDIMENT CONTROL PLANS CHANGE FROM THE APPROVED PLANS. FAILED EROSION AND SEDIMENTATION CONTROL MEASURES SHOULD BE REPAIRED IMMEDIATELY.

UNDERGROUND SERVICING AND UTILITIES:

- ALL UNDERGROUND SERVICE INFORMATION IS DERIVED FROM RECORDS AND SERVICES HAVE NOT BEEN LOCATED BY THE UTILITY COMPANIES OR BY DAYLIGHTING. WSP GEOMATICS AND WSP CANADA GROUP LIMITED ASSUME NO RESPONSIBILITY AS TO THE ACCURACY, CORRECTNESS AND COMPLETENESS OF THE UNDERGROUND SERVICE INFORMATION SHOWN ON THE FACE OF THIS PLAN. UTILITIES MUST BE LOCATED BY THE UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES WHICH OCCUR TO EXISTING SERVICES DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES ON THE SITE.
- CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, REPORTING ALL DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING SERVICES WHEN EXCAVATING.

GRADING NOTES:

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL AREAS WITHIN THE LIMIT OF THE CONTRACT.
- ENSURE TRANSITION OF EXISTING AND NEW GRAD ELEVATIONS IS SMOOTH
- MINIMUM PERMITTED HARDSCAPE SLOPE IS 2%; MAXIMUM PERMITTED IS 5% UNLESS OTHERWISE NOTED.
- MINIMUM GROUND SLOPE TO BE 2%, MAXIMUM PERMITTED 33%.
- PROPOSED ELEVATIONS ALONG LIMIT OF CONTRACT MUST MATCH EXISTING ELEVATIONS.
- NOTIFY CONTRACT ADMINISTRATOR IMMEDIATELY, IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS ARE DISCOVERED.

LAYOUT NOTES:

- LAYOUT MUST BE STAKED VIA. SURVEY AND APPROVED BY THE CONTRACT ADMINISTRATOR.
- ALL PLANT MATERIAL TO BE INSPECTED BY CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION. ALL PLANT MATERIAL MAY BE REJECTED AT ANY TIME DURING CONSTRUCTION AND WARRANTY PERIOD.
- CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY ERRORS, OMISSIONS, OR DISCREPANCIES TO THE CONTRACT ADMINISTRATOR IN WRITING.
- PROPERTY LINES TO BE VERIFIED PRIOR TO INITIATING CONSTRUCTION.
- SITE FURNISHINGS TO BE AS SPECIFIED UNLESS SUBSTITUTION IS APPROVED IN WRITING BY CONTRACT
- NOTIFY CONTRACT ADMINISTRATOR IMMEDIATELY, IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS ARE DISCOVERED.

TOPSOIL PLANTING BED PREPARATION:

- MIX TOPSOIL AS RECOMMENDED BY SOIL TEST RESULTS AND RECOMMENDATIONS OF SOIL TESTING AGENCY.
- TOPSOIL SHALL NOT BE USED TO CONSTRUCT PERMANENT BERMS.
- ALL TOPSOIL SHOULD BE FREE OF SUBSOILS, CLAY, STONES, ROOTS, EXCESS WATER, FROST AND OTHER EXTRANEOUS MATTER.
- PREPARE PLANTING BEDS PRIOR TO ARRIVAL OF PLANT MATERIAL ON SITE.
- EXCAVATE PER PLANTING DETAILS. THE FOREGOING PROPORTIONS ARE SUBJECT TO CHANGE UPON RECEIPT OF TOPSOIL ANALYSIS.
- PREPARE PLANTING SOIL BY EVENLY MIXING:
 - 5 PARTS NATIVE SOIL
 - 1 PART SHARP SAND 2 PARTS ¼ SCREENED COMPOST
 - 500g OF BONE MEAL PER CUBIC METRE.
 - MIX THOROUGHLY

SODDING NOTES:

- ALL SOD SHALL BE GUARANTEED FOR 3 MONTHS FROM DATE OF SUBSTANTIAL PERFORMANCE.
- SODDING SHALL CONFORM TO LANDSCAPE ONTARIO'S 'GENERAL LANDSCAPE SPECIFICATIONS'.
- TOPSOIL SHALL BE EVENLY SPREAD OVER SUB-GRADE AND LOOSELY COMPACTED TO 150mm MINIMUM DEPTH.
- ALL STONES AND DEBRIS OVER 25mm DIA. SHALL BE REMOVED.
- TOPSOIL SHALL BE SUPPLEMENTED WITH A 10-6-4 FERTILIZER AND 20% SUPERPHOSPHATE APPLIED AT A RATE OF 5 KILOS PER 100 SQUARE METRES EACH. PRIOR TO PLACEMENT OF SOD.
- SOD SHALL BE PLACED WITH STAGGERED BUTT JOINTS, WATERED THOROUGHLY, AND ROLLED WHEN DRY.
- LAY SOD SECTIONS PERPENDICULAR ON SLOPES GREATER THAN 3:1 AND SECURE WITH WOODEN PEGS. WOODEN PEGS TO BE 17 X 17 X 300mm. PLACE PEGS 3 PER SQUARE METRE, 100mm BELOW TOP EDGE TO PREVENT SHIFTING OF SOD AND DRIVE PEGS FLUSH WITH TOP OF SOD SOIL. PROVIDE A MINIMUM OF 2 STAKES PER ROLL OF SOD.
- MAINTAIN SODDED AREA FROM THE TIME OF INSTALLATION UNTIL THIRTY (30) CALENDAR DAYS AFTER ALL SODDED AREAS HAVE BEEN INSPECTED BY THE CONTRACT ADMINISTRATOR AND A CERTIFICATE OF COMPLETION IS ISSUED. MINIMUM OF TWO CUTS.
- MAINTENANCE SHALL INCLUDE ALL NECESSARY MEASURES TO ESTABLISH AND MAINTAIN GRASS IN A HEALTHY, VIGOROUS GROWING CONDITION.
- MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING WORK:
- a. MOWING AT REGULAR INTERVALS TO MAINTAIN A MAXIMUM HEIGHT OF 60MM. DO NOT CUT MORE THAN 1/3 OF THE GRASS HEIGHT AT ANY ONE MOWING. TRIM AND CLIP EDGES. REMOVE CLIPPINGS AFTER MOWING AND
- b. WATERING WHEN REQUIRED IN SUFFICIENT QUANTITIES AND AT A FREQUENCY TO PREVENT SOD FROM DRYING OUT AND TO MAINTAIN SOIL UNDER SOD CONTINUOUSLY MOIST TO A DEPTH OF 75 TO 100MM.
- c. FERTILIZE SODDED AREAS ONE MONTH AFTER SODDING WITH 2:1:1 RATIO FERTILIZER. SPREAD EVENLY AT A RATE AS PER MANUFACTURER'S INSTRUCTIONS AND WATER IN WELL, WITH A MINIMUM OF 50CM INFILTRATION AS PREVIOUSLY MENTIONED.

TERRASEEDING:

TERRASEEDING SHALL BE APPLIED TO ALL AREAS DISTURBED BY THE CONSTRUCTION OPERATION THAT WILL NOT BE COVERED WITH ASPHALT OR MULCH/OTHER PATHWAY SURFACING. AT TIME OF TERRASEEDING, ALL SURFACE AREAS MUST BE UNIFORMLY GRADED AND SHALL BE FREE OF EROSION, STONES GREATER THAN 50mm IN DIAMETER, WEEDS AND ANY OTHER UNWANTED VEGETATION. EXISTING SURFACE SOIL SHALL BE UNIFORMLY CULTIVATED TO A MINIMUM DEPTH 50mm TO PROVIDE A LOOSE

AND FRIABLE SEEDBED TO ACCELERATE GERMINATION OF SEED. THE BLOWER TRUCK SHALL BE EQUIPPED WITH A COMPUTER-CALIBRATED SEED INJECTION SYSTEM AND SHALL BE CAPABLE OF UNIFORMLY APPLYING COMPOSTED TOPSOIL AND SEED AT A RATE GREATER THAN 0.25

COMPOSTED TOPSOIL SHALL BE PRE-MIXED AND CONSIST OF A MINIMUM 60% COMPOST MATERIAL.

- SEEDING SHALL BE PLACED ON 150mm OF TOPSOIL.
- ALL SEED TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS FOR MULCH, TACKIFIER, AND SPECIFIC SEEDING RATE AND TIMING OF APPLICATION.
- CONTRACTOR TO VERIFY SEEDING RATES RELATIVE TO SOIL TYPE PRIOR TO INSTALLATION OF SEED.
- ALL SEEDING ON SLOPES GREATER THAN 3 (HORIZONTAL): 1 (VERTICAL) SHALL BE PROTECTED WITH 'SOIL GUARD FIBRE MATRIX' TO MANUFACTURER'S SPECIFICATIONS.

PLANT MATERIAL ORDER, DELIVERY AND INSPECTION:

- CONTRACTOR TO CHECK ALL QUANTITIES AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR IN WRITING. THE QUANTITIES INDICATED ON THE PLAN SUPERCEDE THE TOTALS OF
- OBTAIN CONTRACT ADMINISTRATOR'S APPROVAL ON ALL PLANT MATERIAL AT SOURCE OR UPON DELIVERY, PRIOR TO COMMENCEMENT OF PLANTING WORK.
- APPROVAL OF PLANT MATERIAL PRIOR TO PLANTING SHALL NOT IMPAIR THE RIGHT OF THE CONTRACT ADMINISTRATOR TO REJECT PLANTS AFTER PLANTING, WHICH HAVE BEEN DAMAGED, OR WHICH IN ANY WAY DO NOT CONFORM TO THE SPECIFICATIONS.
- SUBSTITUTIONS OF SIZE, OR WITH OTHER PLANT MATERIAL WILL ONLY BE ALLOWED WITH THE WRITTEN APPROVAL OF THE CONTRACT ADMINISTRATOR.
- ALL MATERIAL MUST CONFORM TO THE SIZES SHOWN ON THE PLANT LIST, EXCEPT WHERE LARGER PLANT MATERIAL IS USED WHEN APPROVED BY THE CONTRACT ADMINISTRATOR. USE OF LARGER PLANTS WILL NOT INCREASE THE CONTRACT PRICE. UNDERSIZED MATERIAL WILL BE REJECTED.
- ALL SHRUBS AND TREES SHALL CONFORM TO THE PRESENT STANDARDS OF THE CANADIAN NURSERY TRADES ASSOCIATION FOR SIZE AND SPECIES.
- PLANTS ARE TO BE NURSERY GROWN UNDER PROPER CULTURAL CONDITIONS, IN PARTICULAR WITH
- TREES SHALL BE WELL BRANCHED AND BALANCED WITH A STRONG CENTRAL LEADER.
- DECIDUOUS SHADE TREES SHALL BE FREE OF BRANCHES FROM GROUND LEVEL TO A HEIGHT OF 1.8M ABOVE THE GROUND.
- TREES WITH OPEN SCARS ARE NOT ACCEPTABLE.
- KEEP ALL ROOTS AND ROOTBALLS MOIST PRIOR TO PLANTING.

PLANT MATERIAL GUARANTEE AND FINAL INSPECTION:

- AT THE COMPLETION OF PLANTING OPERATIONS, REMOVE ALL SURPLUS MATERIAL FROM THE SITE AT NO EXTRA CHARGE TO THE PROJECT.
- MAKE GOOD ALL DAMAGE RESULTING FROM PLANTING OPERATIONS AT NO EXTRA CHARGE TO THE
- CERTIFICATE OF COMPLETION.
- ALL PLANTS SHALL BE INSPECTED TWICE, ONCE HALFWAY THROUGH THE GUARANTEE PERIOD, AND AGAIN AT THE END OF THE GUARANTEE PERIOD. PLANTS WHICH, AT THAT TIME, ARE NOT IN HEALTHY VIGOROUS GROWING CONDITION, TO THE CONSULTANT'S APPROVAL, SHALL BE REPLACED AT NO EXTRA CHARGE TO
- CONTRACTOR TO CONTACT CONTRACT ADMINISTRATOR AND/OR APPROVAL AGENCY/MUNICIPALITY TO

- ALL CONCRETE WORK SHALL CONFORM TO CSA STANDARDS A23.1, A23.2, & A23.3.
- SHALL BE DEFORMED HI-BOND HARD GRADE WITH MINIMUM YIELD STRENGTH OF FY = 400MPa. ALL
- REINFORCING STEEL SHALL BE EPOXY COATED. • CONFORM TO THE CONCRETE COVER REQUIREMENTS OF CSA A23.1 AND THE FOLLOWING, UNLESS
- OTHERWISE NOTED:
- b. PIERS AND WALL: 100mm (4")
- WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED ON THE
- FOR REVIEW PRIOR TO FABRICATION. • CONCRETE PROPERTIES
- AIR ENTRAINMENT
- COMPRESSIVE STRENGTH OF 25 MPa, 0.55 WATER-CEMENT RATIO WITH AIR ENTRAINMENT. c. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE AT JOB
- SLUMP OF CONCRETE TO BE 75mm +/- 25mm (3" +/- 1") OR AS OTHERWISE SPECIFIED. CONCRETE WITH 110mm (4.5") SLUMP OR MORE IS TO BE REJECTED.
- WATER SURING OF CONCRETE IS RECOMMENDED. CURE ALL CONCRETE IN ACCORDANCE WITH CSA A23.1 SECTION 7.4
- ANCHOR BOLTS PRIOR TO THE PLACEMENT OF THE CONCRETE. REBAR REBAR SHALL BE STORED ON-SITE IN A MANNER TO BE KEPT CLEAN AND FREE FROM DELETERIOUS MATERIALS. REINFORCING BARS, DOWELS AND ANCHOR BOLTS SHALL BE SECURELY TIED IN PLACE SO AS TO MAINTAIN THEIR EXACT POSITION BEFORE AND DURING PLACEMENT OF THE CONCRETE. BAR SUPPORTS SHALL ONLY
- ALL CONCRETE EXCEPT SLABS ON GRADE 125mm THICK OR LESS SHALL BE MECHANICALLY VIBRATED SO AS TO COMPLETELY FILL THE FORM WITHOUT CAUSING UNDUE SEGREGATION. ANY DEFECTS IN THE HARDENED CONCRETE SHALL BE SATISFACTORY REPAIRED OR SHALL BE REPLACED.

KEY MAP

DIGITAL DATA DISCLAIMER

BY USING OR REFERENCING THIS DIGITAL DATA. THE RECIPIENT OR THEIR SUB-CONTRACTOR(S) WILL OBLIGE TO THE FOLLOWING TERMS:

- COMPUTER AIDED DRAFTING AND DESIGN (CADD) INFORMATION STORED IN ELECTRONIC FORM MUST NOT BE MODIFIED BY OTHER PARTIES, INTENTIONALLY OR OTHERWISE, WITHOUT NOTICE OR INDICATION OF SAID MODIFICATIONS TO WSP CANADA GROUP LIMITED (WSP)
- WSP RESERVES THE RIGHT TO REMOVE ALL INDICES OF ITS OWNERSHIP AND/OR INVOLVEMENT IN MATERIAL FROM EACH ELECTRONIC MEDIUM NOT HELD IN ITS POSSESSION.
- THIS MATERIAL SHALL NOT BE USED BY ANY UNAUTHORIZED PARTY OR TRANSFERRED TO ANY OTHER PARTY FOR USE IN ANY OTHER PROJECTS. ADDITIONS TO THE CURRENT PROJECT, OR FOR ANY OTHER PURPOSE FOR WHICH THE MATERIAL WAS NOT STRICTLY INTENDED BY WSP WITHOUT OUR EXPRESS WRITTEN PERMISSION.
- ANY UNAUTHORIZED MODIFICATION OR REUSE OF THE MATERIAL SHALL BE AT YOUR SOLE RISK, AND YOU AGREE TO DEFEND, INDEMNIFY, AND HOLD WSP HARMLESS FOR ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS FEES ARISING OUT OF THE UNAUTHORIZED MODIFICATION OR USE OF THESE MATERIALS.

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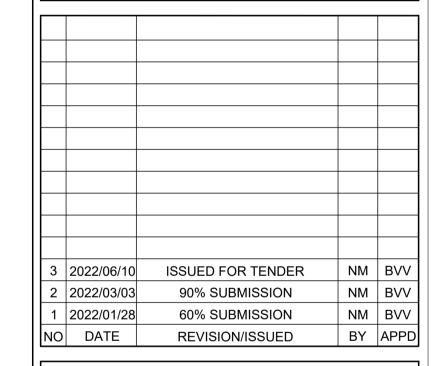
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DRAWING INFORMATION

CONDITIONS.

ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY: WSP CANADA INC.

ADDRESS:582 LANCASTER ST W, KITCHENER, ON



Landscape Architecture

582 Lancaster Street West

Kitchener, ON N2K 1M3

t. 519-743-8777

www.wsp.com



TOWNSHIP OF WILMOT

PROJECT TITLE: NEW HAMBURG

60 SNYDER'S ROAD WEST

BADEN. ON N3A 1A1

NITH RIVER PROMINADE SP#

AND HARTMAN BRIDGE

NOTES

SITE ADDRESS: BETWEEN GRCA DAM

DRAWING TITLE:

STAMP CONS

ON NO

DESIGNED BVV CHECKED AG SCALE 1:xxx JANUARY 2022

PROJECT NUMBER

DWG. NUMBER

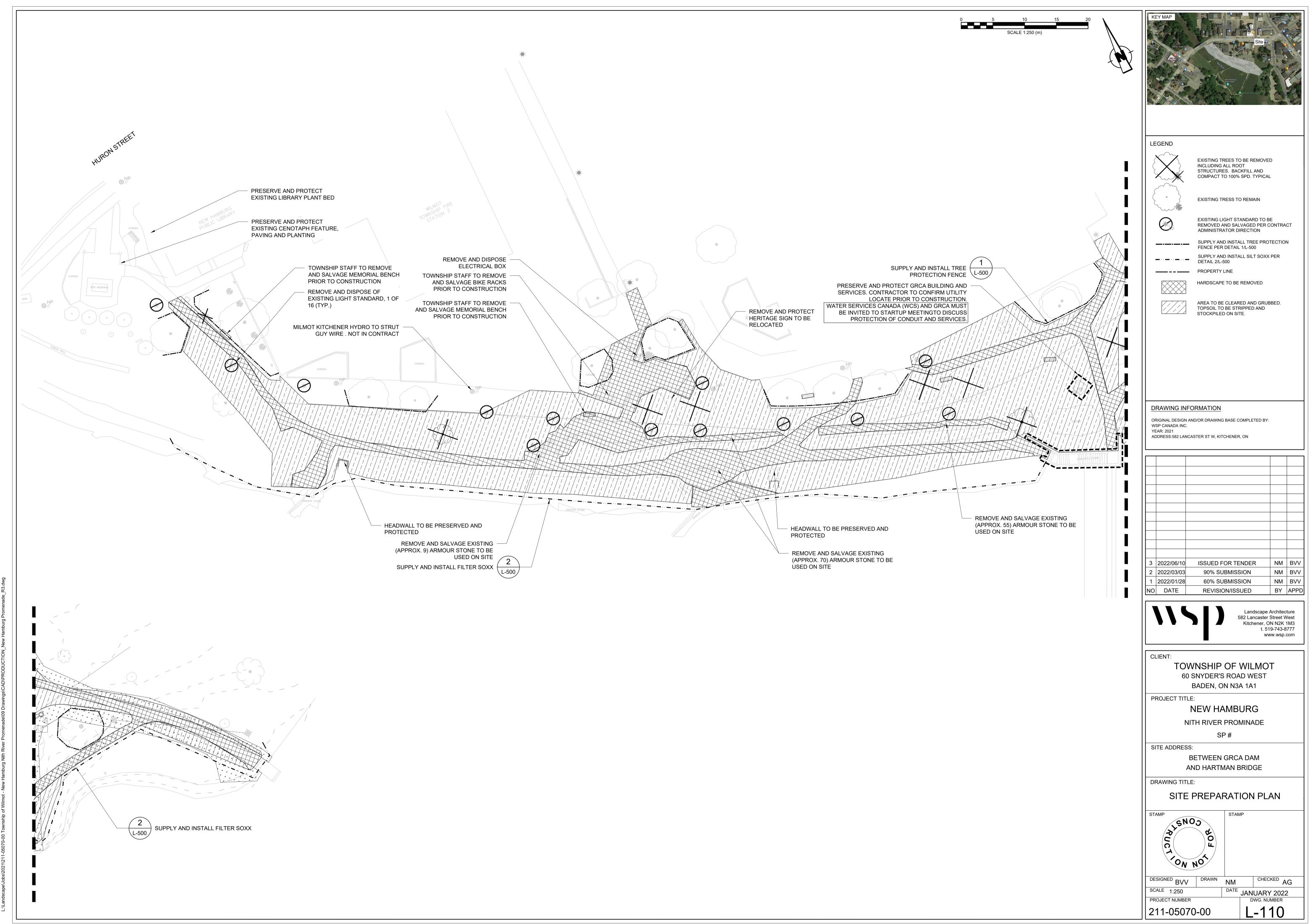
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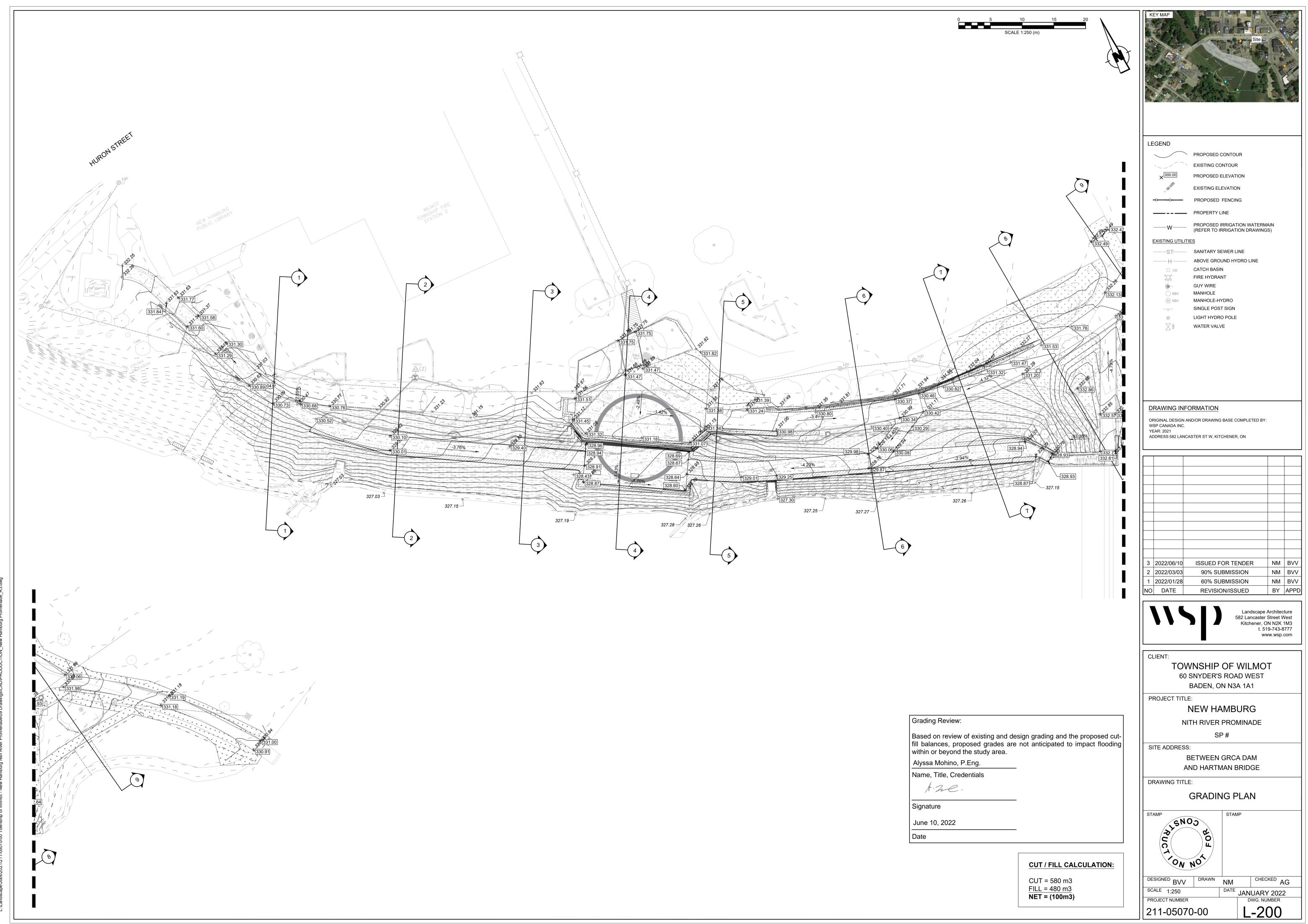
RESPECT TO SPACING, PEST AND DISEASE CONTROL, AND BRANCH AND ROOT PRUNING. TREES ARE TO HAVE STRAIGHT STURDY TRUNKS.

- PLANT MATERIAL SHALL BE GUARANTEED FOR A MINIMUM OF TWO YEARS FROM THE ISSUE DATE OF THE
- THE PROJECT.
- REVIEW PROJECT FOR GUARANTEE INSPECTIONS.

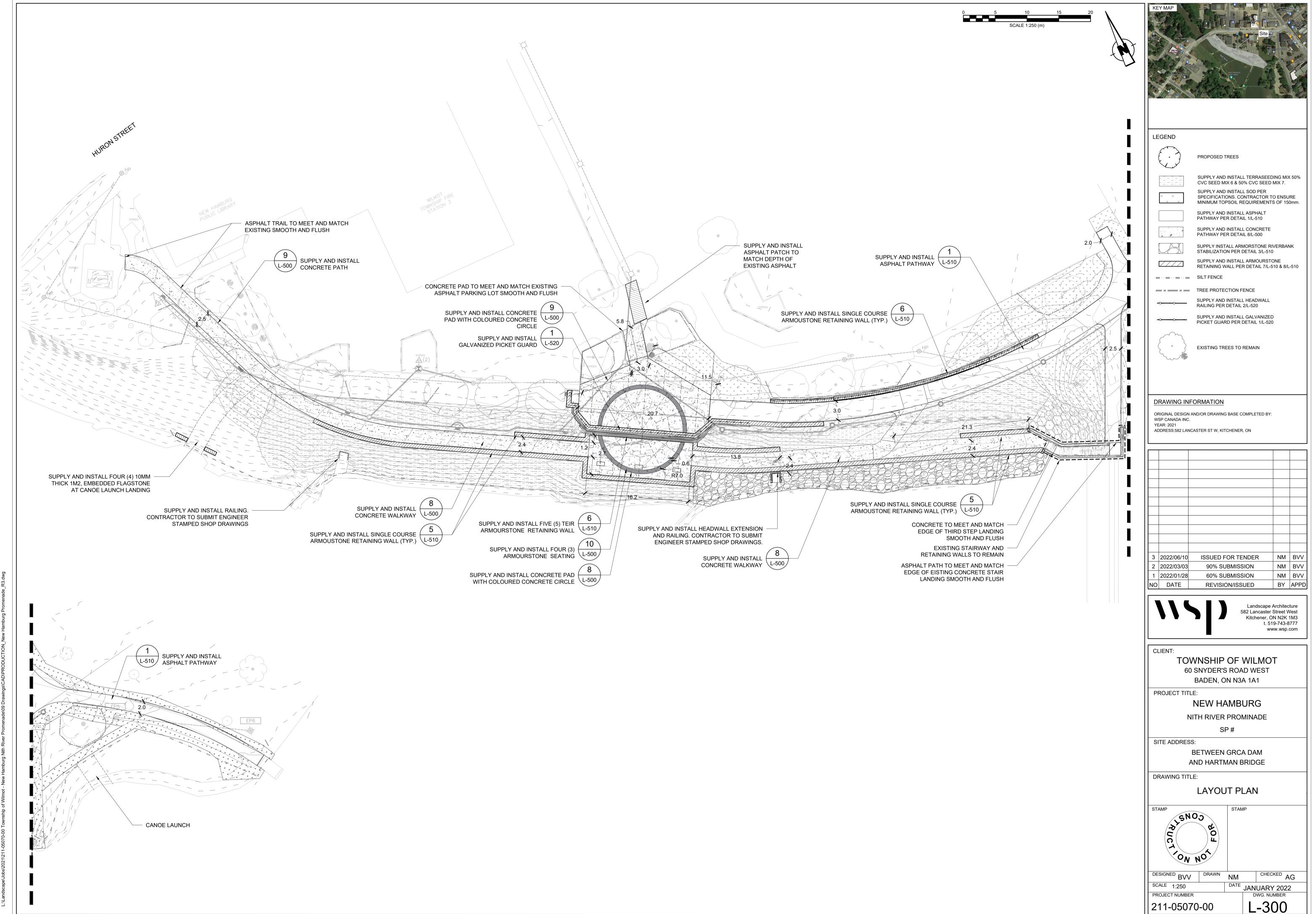
CONCRETE NOTES:

- CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.18 SERIES OF REINFORCING STEEL. REINFORCING BARS
- a. CONCRETE CAST AGAINST EARTH: 100mm (4")
- c. EXPOSED TO DE-ICING CHEMICALS: 100mm (4")
- DRAWINGS. ALL REINFORCING STEEL FABRICATION AND PLACEMENT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER
- a. EXPOSED CONCRETE TO BE CLASS C-2 CONCRETE (28 DAY COMPRESSIVE STRENGTH OF 32MPa) WITH
- b. FOUNDATION WALLS AND CONCRETE EXPOSED TO FREEZE THAW SHALL BE CLASS F-2, HAVE A 28 DAY
- ALL CONCRETE FORMS TO BE WET THOROUGHLY BEFORE POURING CONCRETE. DO NOT ADD WATER TO CONCRETE UNLESS WRITTEN APPROVAL GIVEN BY THE ENGINEER. IF HIGHER SLUMP CONCRETE IS DESIRED, CONCRETE SUPPLIER SHALL DESIGN AND SUPPLY ACCORDINGLY.
- ALL OIL, GREASE, MUD AND DEBRIS SHALL BE ENTIRELY REMOVED FROM THE REINFORCING STEEL AND
- BE MADE OF PRECAST CONCRETE BLOCKS, PLASTIC OR WIRE.

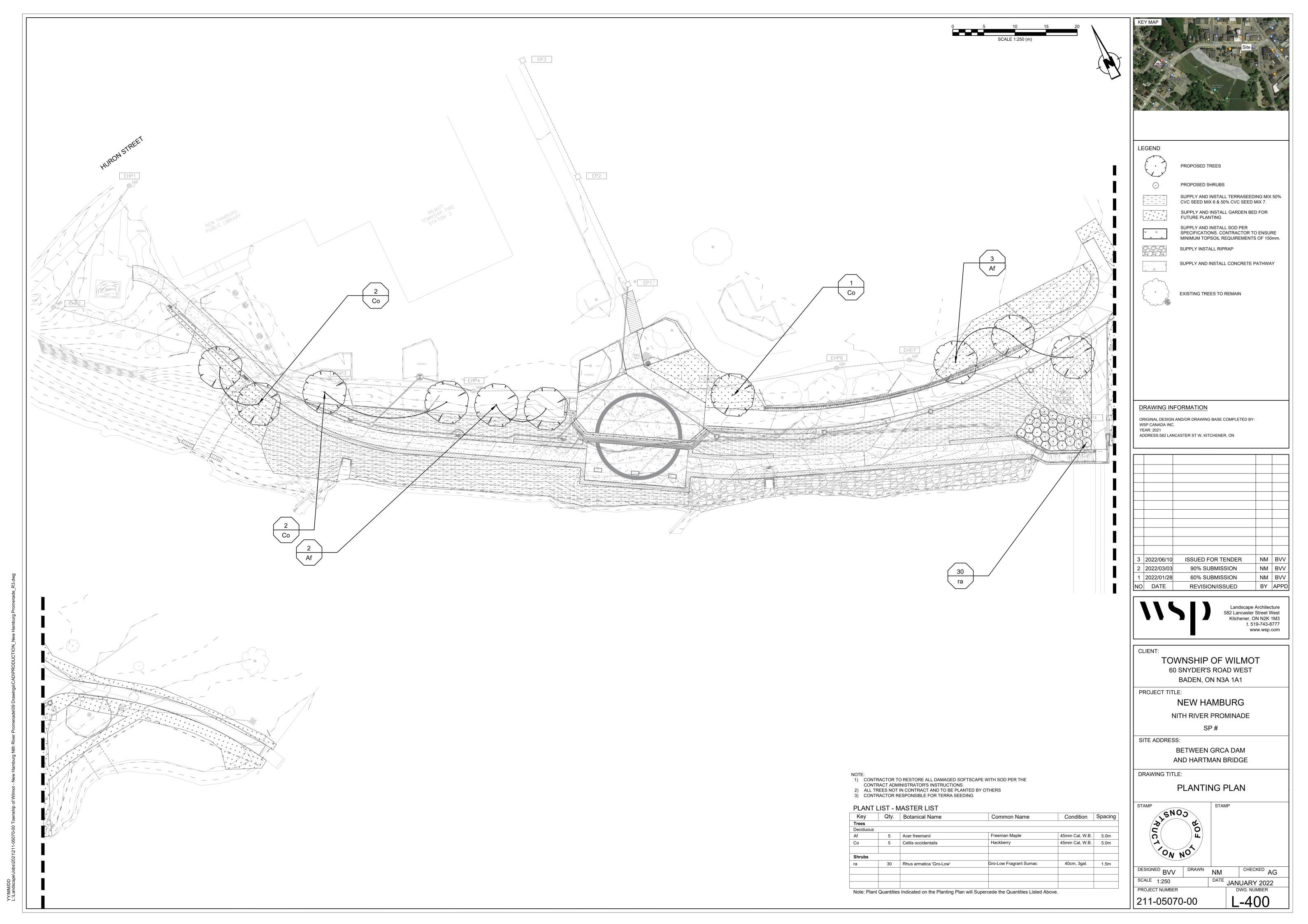




\2021\211-05070-00 Township of Wilmot - New Hamburg Nith River Promenade\09 Drawings\CAD\PRODUCTION_New Hamburg Promenade_R3.dwg

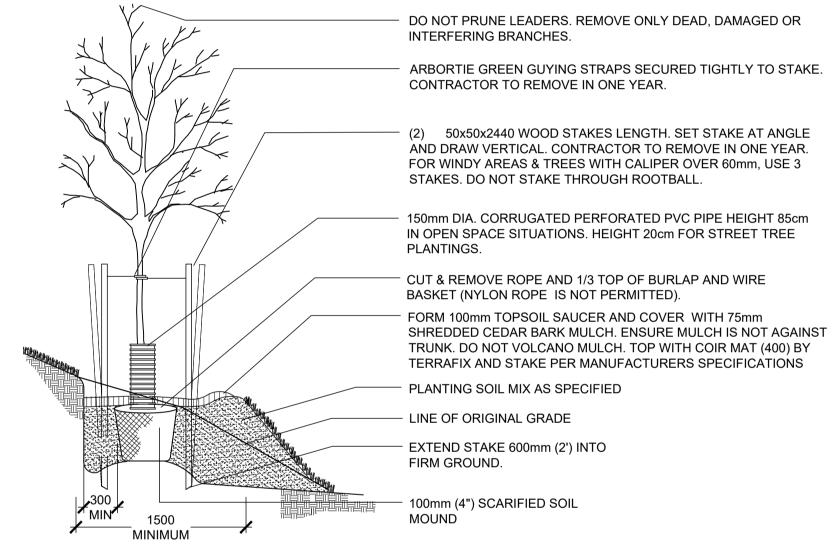


YY/MM/DD L:\Landscape\Jobs\2021\211-05070-00 Township of Wilmot - New Hamburg Nith River Promenade\09 Drawings\CAD\PRODUCTION New Hambur



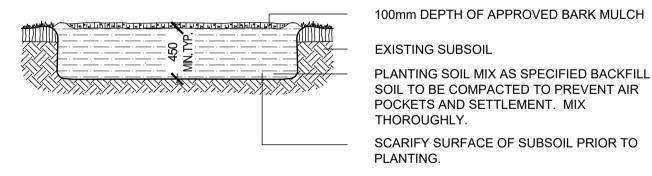
- ALL TREE PROTECTION TO BE ERECTED PRIOR TO ANY CONSTRUCTION ACTIVITY AND IS TO REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED. OBTAIN WRITTEN APPROVAL FROM CONTRACT ADMINISTRATOR PRIOR TO REMOVAL OF FENCING.

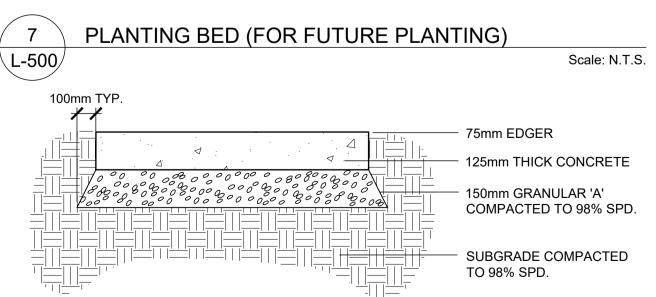
TREE PROTECTION FENCE L-500 Scale: N.T.S.



- PLANT TREE NO HIGHER THAN 50mm ABOVE ORIGINAL GROUND GRADE TO ALLOW FOR SETTLEMENT.
- WATER AT TIME OF PLANTING AND WHENEVER DEEMED NECESSARY TO MAINTAIN TREES IN A HEALTHY CONDITION.
- ALL TAGS AND LABELS TO REMAIN UNTIL INSPECTION IS COMPLETE. • CONTRACTOR TO REMOVE ALL STAKES, TAGS AND LABELS AT THE END OF ONE YEAR.

TREE PLANTING ON A SLOPE L-500/ Scale: N.T.S.





- CONCRETE TO BE 35MPa COMPRESSIVE STRENGTH AT 28 DAYS WITH 6% TO 8% AIR ENTERTAINMENT (FIBREMESH
- INFORCE E3 FIBRILLATED POLYPROPYLENE FIBRE TO ADD TO MIXTURE AT .9kG PER CUBIC METRE). EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM 4.0m ON CENTRE AND WHERE CONCRETE MEETS OTHER
- HARD SURFACES AND STRUCTURES
- CONTRACTION JOINTS WITH DOUBLE EDGER IN FRESH CONCRETE THEN SAWCUT TO A DEPTH OF 30mm. WHEN THE SIDEWALK WIDTH IS 2.0 M OR GREATER, A LONGITUDINAL CONTRACTION JOINT SHALL BE SAWN OR FORMED AT A MAXIMUM SPACING INTERVAL OF 1.5 M.

CONCRETE PAD 8 \L-500/

PRODUCT SPECIFICTIONS

Filtrexx SiltSoxx® ORIGINAL

PURPOSE & DESCRIPTION

Filtrexx SiltSoxx ORIGINAL is a pre-filled compost filter sock comprised of mesh material and certified FilterMediaTM. Filtrexx SiltSoxx ORIGINAL strength mesh is the most widely recognized and used product in the industry. Available in green/black stripe or

APPLICATIONS Perimeter Control Inlet Protection

 Check Dams Slope Interruption FOR ADDITIONAL INFORMATION

www.filtrexx.com/specs

Refer to the Filtrexx Catalog for full item listings. Refer to Filtrexx Design Specifications for complete application, design, installation, maintenance, and removal documentation at

FIELD APPLICATION PHOTO REFERENCES

Filtrexx SiltSoxx ORIGINAL used as Perimeter Control.



PRUNE TO SUIT SPECIES. PRUNE LARGE

OBJECTIONABLE BRANCHES FOLLOWING

OF THE PLANT.

BRANCHES BY 1/3 TO REMOVE DAMAGED OR

PROPER HORTICULTURAL PRACTICE. DO NOT

PRUNE LEADERS. PRUNE IN SUCH A MANNER

AS TO PRESERVE THE NATURAL CHARACTER

REMOVE FROM POT OR CONTAINER, OR CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOT

75mm DEPTH OF APPROVED BARK MULCH. TOP

WITH COIR MAT (400) BY TERRAFIX AND STAKE

CONSTRUCT TOPSOIL SAUCER 100mm HIGH

PER MANUFACTURERS SPECIFICATIONS

ensile Strenath

(ASTM D4595)²

ill Material

Mesh Color

Filtrexx SiltSoxx ORIGINAL Specifications

ORIGINAL

Multi-Filament

applications

up to 5 yr

MD: 670 lbs

TD: 423 lbs

green/thin black stripe

Polypropylene (MFPP)

standard sediment control

Photodegradable

Product Name

Mesh Material Type

¹Functional longevity ranges are estimates only. Site specific environmental conditions may result in significantly shorter or longer time periods. Tensile Strength is based on 12" diameter using ATSM D4595. See Filtrexx TechLink #3342 for full tensile strength testing.

filtrexx®

MANUFACTURERS SPECIFICATIONS. CONTRACTOR **RESPONSIBLE FOR** UPKEEP OF EROSION CONTROL DURING PROJECT.

FILTREXX SILTSOXX ORIGINAL 12" \L-500

Locally sourced FilterMedia™ TO BE INSTALLED IN THE LOCATION NOTED IN THE DRAWINGS AND PER

L-500 Scale: N.T.S.

DO NOT PRUNE LEADERS. REMOVE ONLY DEAD. DAMAGED OR INTERFERING BRANCHES. ARBORTIE GREEN GUYING STRAPS SECURED TIGHTLY TO STAKE. CONTRACTOR TO REMOVE IN ONE YEAR. (2) 50x50x2440 WOOD STAKES LENGTH. SET STAKE AT ANGLE AND DRAW VERTICAL. CONTRACTOR TO REMOVE IN ONE YEAR. FOR WINDY AREAS & TREES WITH CALIPER OVER 60mm, USE 3 STAKES. DO NOT STAKE THROUGH ROOTBALL. 200mm DIA. CORRUGATED PERFORMED PVC PIPE. HEIGHT 20cm -CUT & REMOVE ROPE AND 1/3 TOP OF BURLAP AND WIRE BASKET (NYLON ROPE IS NOT PERMITTED). -FORM 100mm TOPSOIL SAUCER AND COVER WITH 75mm SHREDDED CEDAR BARK MULCH. ENSURE MULCH IS NOT AGAINST TRUNK. DO NOT VOLCANO MULCH. TOP WITH COIR MAT (400) BY TERRAFIX AND STAKE PER MANUFACTURERS SPECIFICATIONS -PLANTING SOIL MIX AS SPECIFIED -EXTEND STAKE 600mm (2') INTO FIRM GROUND. MIN -100mm (4") SCARIFIED SOIL MOUND MINIMUM

- PLANT TREE NO HIGHER THAN 50mm ABOVE ORIGINAL GROUND GRADE TO ALLOW FOR SETTLEMENT.
- WATER AT TIME OF PLANTING AND WHENEVER DEEMED NECESSARY TO MAINTAIN TREES IN A HEALTHY CONDITION.
- ALL TAGS AND LABELS TO REMAIN UNTIL INSPECTION IS COMPLETED. • CONTRACTOR TO REMOVE ALL TAGS, LABELS AND STAKES AT THE END OF THE FIRST YEAR OF WARRANTY.

TREE PLANTING

PRUNE TO SUIT SPECIES. PRUNE LARGE BRANCHES BY 1/3 TO REMOVE DAMAGED OR OBJECTIONABLE BRANCHES

FOLLOWING PROPER HORTICULTURAL PRACTICE. DO NOT

PRUNE LEADERS. PRUNE IN SUCH A MANNER AS TO

PRESERVE THE NATURAL CHARACTER OF THE PLANT. 75mm DEPTH OF APPROVED BARK MULCH. TOP WITH COIR MAT (400) BY TERRAFIX AND STAKE PER MANUFACTURERS **SPECIFICATIONS** CONSTRUCT TOPSOIL SAUCER 100mm HIGH AROUND SHRUB. 100mm TOPSOIL LINE OF ORIGINAL GRADE

> PLANTING SOIL MIX AS SPECIFIED BACKFILL SOIL TO BE COMPACTED TO PREVENT AIR POCKETS AND SETTLEMENT. MIX THOROUGHLY. REMOVE FROM POT OR CONTAINER, OR CUT AND REMOVE BURLAP FROM

PLANTING SOIL TAMPED TO PREVENT SETTLEMENT

TOP 1/3 OF ROOT BALL.

SCARIFY SURFACE OF SUBSOIL PRIOR TO PLANTING.

PLANT TREE NO HIGHER THAN 50mm ABOVE ORIGINAL GROUND GRADE TO ALLOW FOR

- WATER AT TIME OF PLANTING AND WHENEVER DEEMED NECESSARY TO MAINTAIN TREES IN A HEALTHY CONDITION.
- ALL TAGS AND LABELS TO REMAIN UNTIL INSPECTION IS COMPLETED. • CONTRACTOR TO REMOVE ALL TAGS, LABELS AND STAKES AT THE END OF ONE YEAR.

SHRUB PLANTING ON A SLOPE

3 2022/06/10 **ISSUED FOR TENDER** NM BV NM BVV 2 2022/03/03 90% SUBMISSION 60% SUBMISSION 1 2022/01/28 NM BVV



TOWNSHIP OF WILMOT 60 SNYDER'S ROAD WEST BADEN, ON N3A 1A1

REVISION/ISSUED

BY APPD

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

www.wsp.com

PROJECT TITLE:

NO DATE

Scale: N.T.S.

LEGEND

Scale: N.T.S.

NEW HAMBURG

NITH RIVER PROMINADE SP#

SITE ADDRESS: BETWEEN GRCA DAM

AND HARTMAN BRIDGE DRAWING TITLE:

DETAILS

CONS C ON NO

DESIGNED BVV CHECKED AG SCALAS SHOWN JANUARY 2022 PROJECT NUMBER DWG. NUMBER

1 g" STAINLESS STEEL **RAILING WELDED TO** STEEL BRACKET FLAT CUT TOP 450x450x600 ARMOUR STONE ½"x6" STAINLESS STEEL ANCHOR BOLTS **EXISTING GRADE** FLAT CUT TOP, BOTTOM AND CONNECTING SIDE OF 450x450x600 ARMOUR STONE. FLAME FINISH AND SMOOTH CORNERS. - EXISTING GRADE 1 5 STAINLESS STEEL RAILING WELDED TO STEEL BRACKET ½"x6" STAINLESS STEEL ANCHOR BOLTS

ARMOUR STONE BENCH

Scale: N.T.S.

SHRUB PLANTING

\L-500

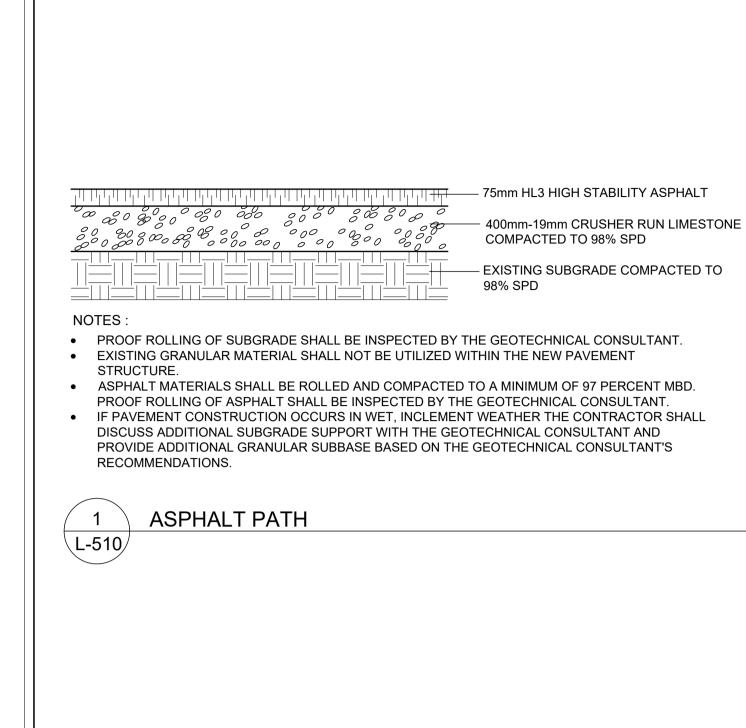
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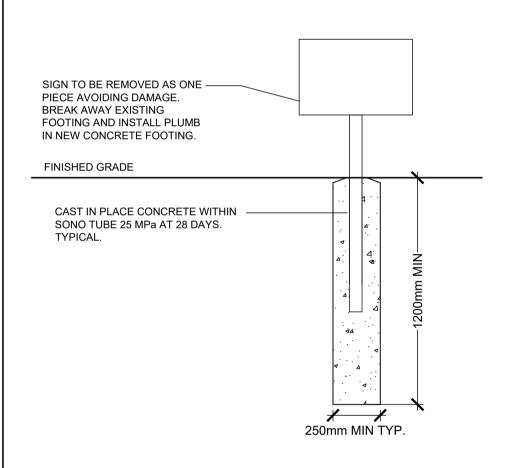
AROUND SHRUB BASE OR SHRUB BED. PLANTING SOIL MIX AS SPECIFIED BACKFILL SOIL TO BE COMPACTED TO PREVENT AIR POCKETS AND SETTLEMENT. MIX THOROUGHLY. SCARIFY SURFACE OF SUBSOIL PRIOR TO PLANTING. NOTES PLANT TREE NO HIGHER THAN 50mm ABOVE ORIGINAL GROUND GRADE TO ALLOW FOR SETTLEMENT WATER AT TIME OF PLANTING AND WHENEVER DEEMED NECESSARY TO MAINTAIN TREES IN A HEALTHY CONDITION. • ALL TAGS AND LABELS TO REMAIN UNTIL INSPECTION IS COMPLETED. • CONTRACTOR TO REMOVE ALL TAGS, LABELS AND STAKES AT THE END OF ONE

\L-500

L-500

Scale: N.T.S.

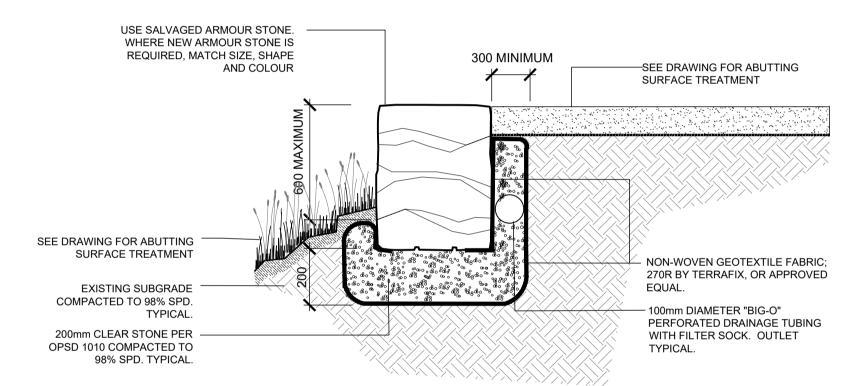




CHRS HERITAGE SIGN SALVAGE AND REINSTALL L-510

FRONT VIEW space between tree trunk and wire mesh. 16 gauge, Galvanized 50mm x 50mm Stucco Wire. Wrap section of mesh around tree and secure (See detail) Bury bottom of mesh 50-75mm below surface. Secure to ground with rebar anchors, 300mm long with 100mm bent over to create hook. Hook over bottom horizontal wire. Drive rebar completely into ground. Cut horizontal wires (alternating sides) CONNECTION DETAIL and use to secure ends of wrap

DECIDUOUS TREE BEAVER GUARD



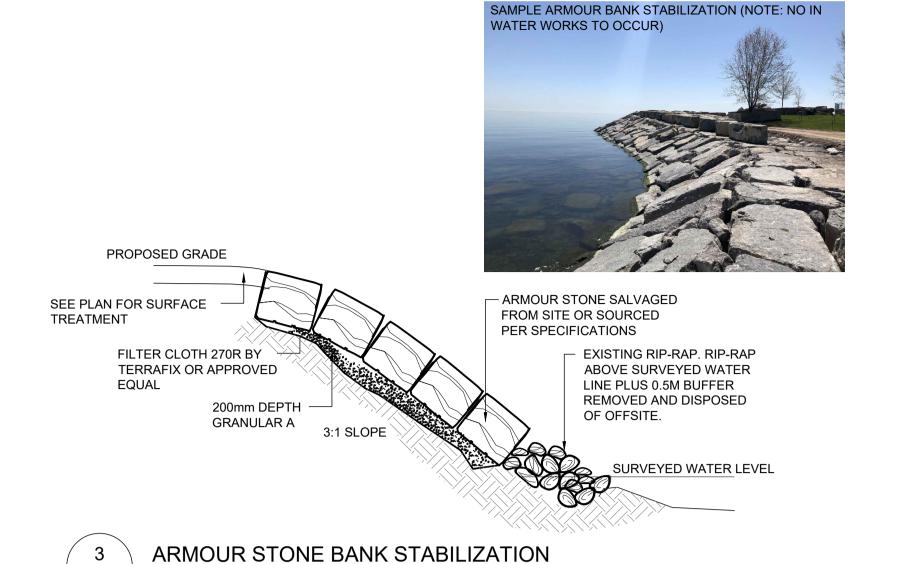
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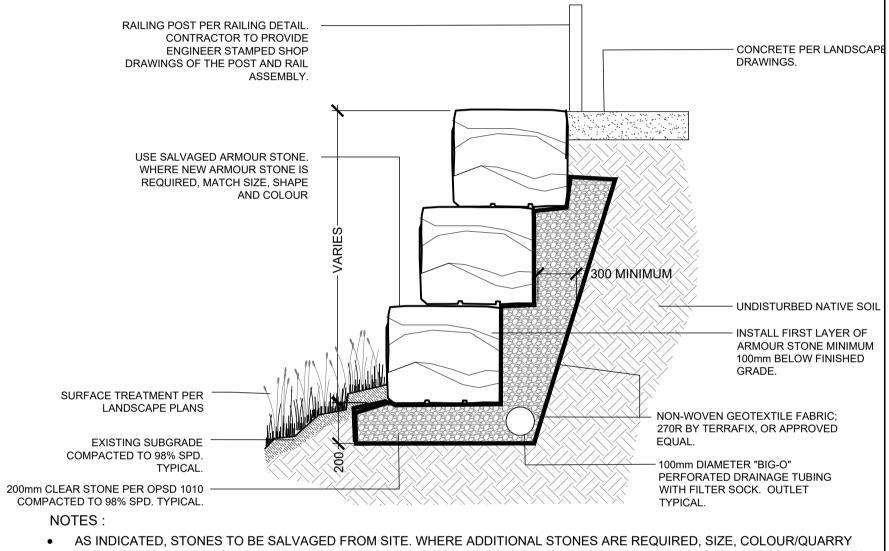
Scale: N.T.S.

Scale: N.T.S.

- AS INDICATED, STONES TO BE SALVAGED FROM SITE. WHERE ADDITIONAL STONES ARE REQUIRED, SIZE, COLOUR/QUARRY LOCATION TO BE APPROVED IN ADVANCE BY THE PROJECT LANDSCAPE ARCHITECT. INDIVIDUAL STONE LAYERS TO BE LEVEL.
- ALL VERTICAL JOINTS SHALL BE TIGHT-FITTED WITH NO GAPS EXCEEDING 75 MM.
- RETAINING WALLS HIGHER THAN 1800 MM TO BE CERTIFIED BY STRUCTURAL ENGINEER LICENSED TO PRACTICE IN ONTARIO. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.







LOCATION TO BE APPROVED IN ADVANCE BY THE PROJECT LANDSCAPE ARCHITECT. INDIVIDUAL STONE LAYERS TO BE LEVEL. • ALL VERTICAL JOINTS SHALL BE TIGHT-FITTED WITH NO GAPS EXCEEDING 75 MM.

• STONE COURSES ARE TO BE STEPPED BACK 250mm BETWEEN LAYERS.

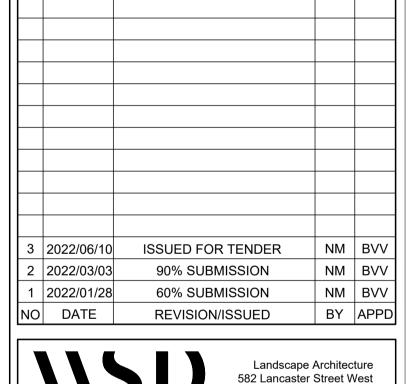
• RETAINING WALLS HIGHER THAN 1800 MM TO BE CERTIFIED BY STRUCTURAL ENGINEER LICENSED TO PRACTICE IN ONTARIO.

ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. • STONES ARE TO STEP DOWN TO ACCOMMODATE GRADE CHANGES. WALLS SLOPED LONGITUDINALLY WILL NOT BE ACCEPTED.

MULTI-LAYER ARMOUR STONE WALL WITH FENCE/RAIL

Scale: N.T.S.







Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com

BADEN, ON N3A 1A1

BETWEEN GRCA DAM



SCALAS SHOWN PROJECT NUMBER DWG. NUMBER

Scale: N.T.S.

Scale: N.T.S.

L-510/

Scale: N.T.S.

TOWNSHIP OF WILMOT 60 SNYDER'S ROAD WEST

PROJECT TITLE: **NEW HAMBURG**

NITH RIVER PROMINADE

SP#

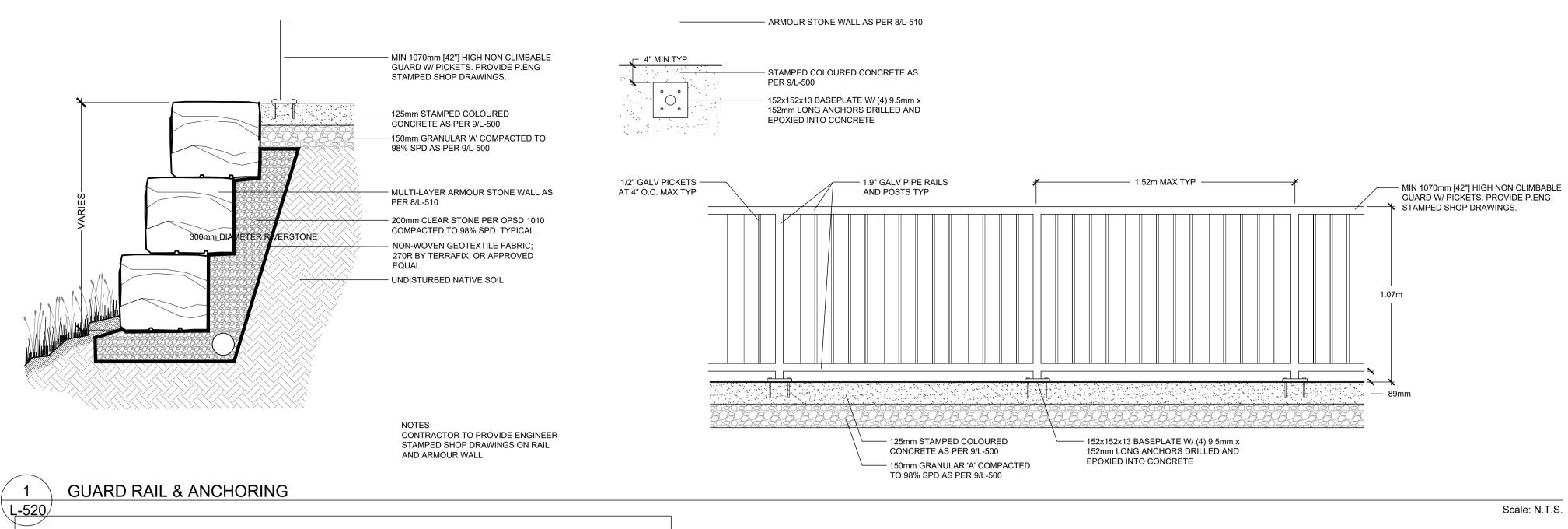
SITE ADDRESS:

AND HARTMAN BRIDGE DRAWING TITLE:

DETAILS



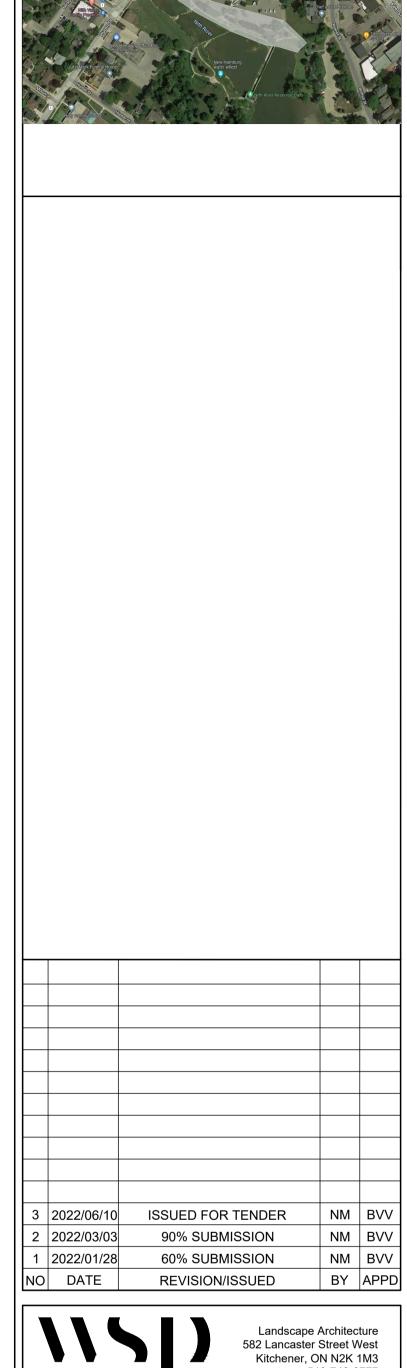
DESIGNED BVV CHECKED AG DATE JANUARY 2022



Heavy Duty Guard Rail - HDGR STANDARD HEIGHTS STANDARD LENGTHS 48", 72", 96", 120", 144" 27", 36", 42" STEEL BASEPLATE 8" 6" SCH 40 RAILS w/ 7.25" OD FLISTIO 4" SCH 80 POSTS w/ 5.25" OD THISTIC Vestil Manufacturing Company 2999 North Wayne Street, P.O. Box 570, Angola Indiana 46703 Telephone (260) 665-7586 * Fax (260) 665-1339 ALL MATERIAL TO BE HOT DIP GALVANIZED STEEL
CONTRACTOR TO SUPPLY ENGINEER STAMPED SHOP DRAWINGS FOR RAILING AND FASTENING TO HEADWALL

GALVANIZEDGUARD RAIL FOR HEADWALL L-520

Scale: N.T.S.



www.wsp.com

t. 519-743-8777

TOWNSHIP OF WILMOT 60 SNYDER'S ROAD WEST BADEN, ON N3A 1A1

PROJECT TITLE:

NEW HAMBURG

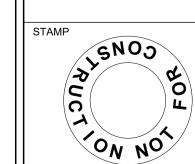
NITH RIVER PROMINADE SP#

SITE ADDRESS:

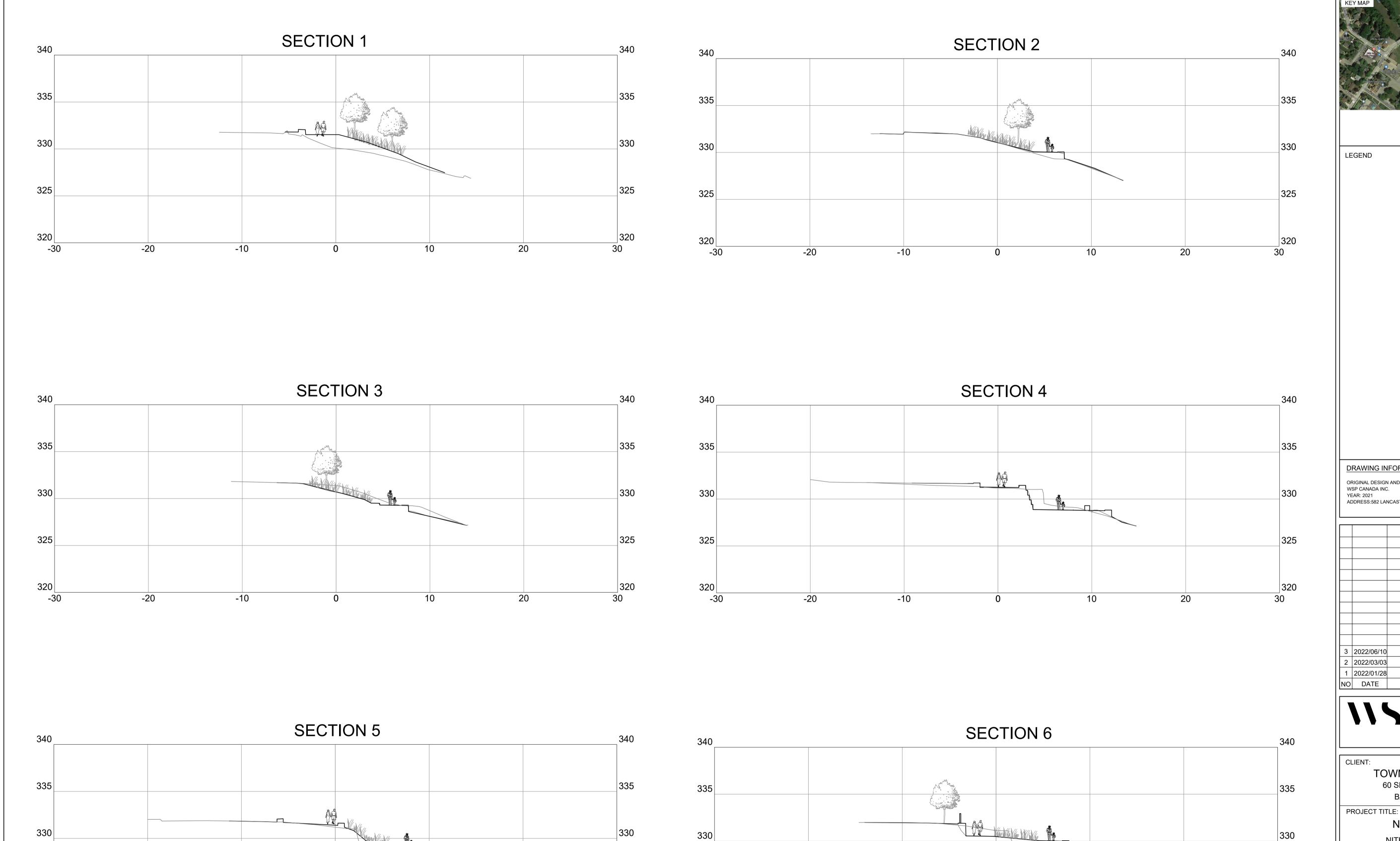
BETWEEN GRCA DAM AND HARTMAN BRIDGE

DRAWING TITLE:

DETAILS



DESIGNED BVV CHECKED AG SCALAS SHOWN DATE JANUARY 2022 PROJECT NUMBER DWG. NUMBER



325

320

-30

-20

-10

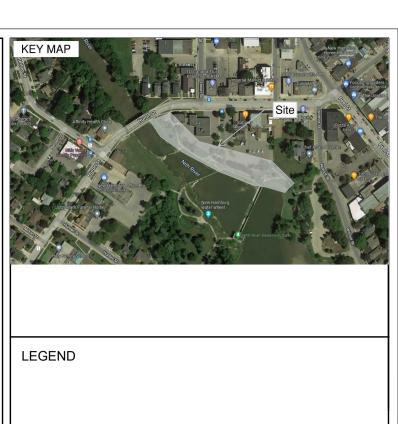
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10

20

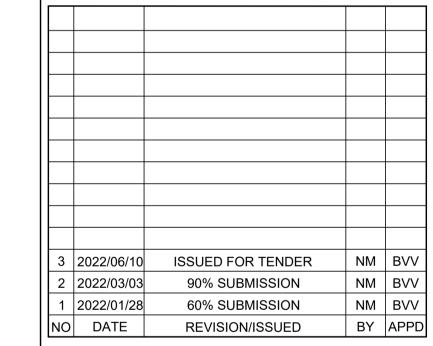
30

20



DRAWING INFORMATION

ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY: WSP CANADA INC. ADDRESS:582 LANCASTER ST W, KITCHENER, ON





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

60 SNYDER'S ROAD WEST BADEN, ON N3A 1A1

SITE ADDRESS:

___320 30

NEW HAMBURG

NITH RIVER PROMINADE SP#

BETWEEN GRCA DAM AND HARTMAN BRIDGE

DRAWING TITLE:

SECTIONS



SCALE 1:200 DATE JANUARY 2022

DWG. NUMBER PROJECT NUMBER

L-600

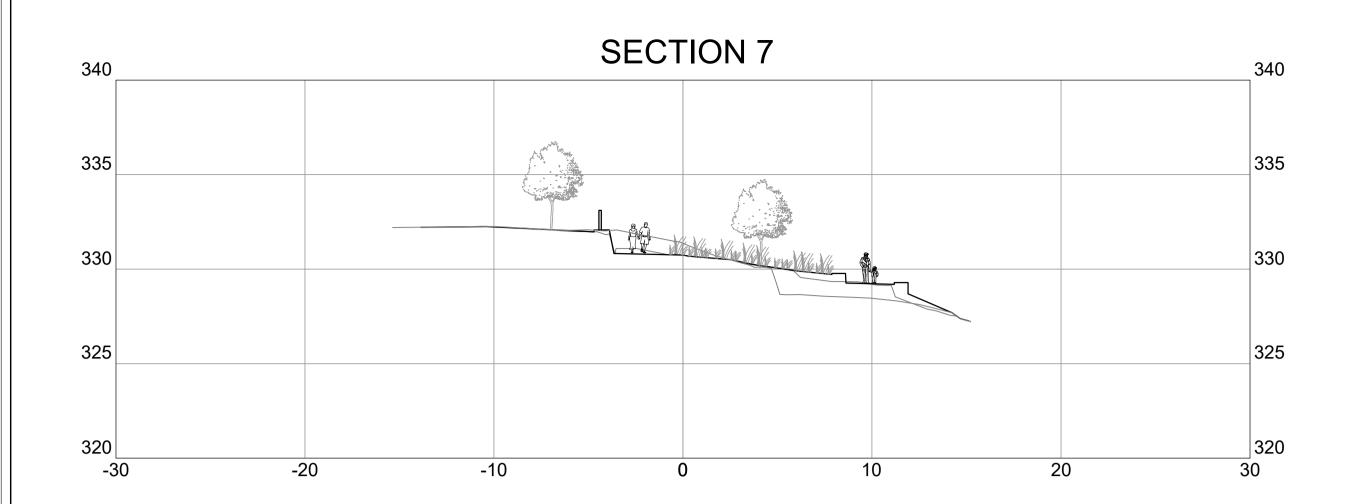
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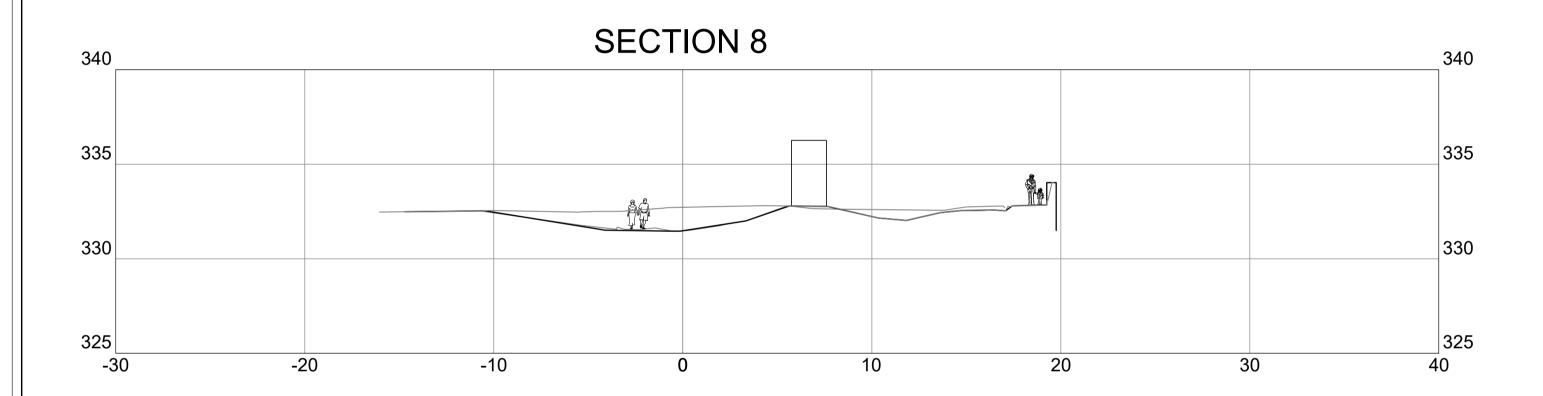
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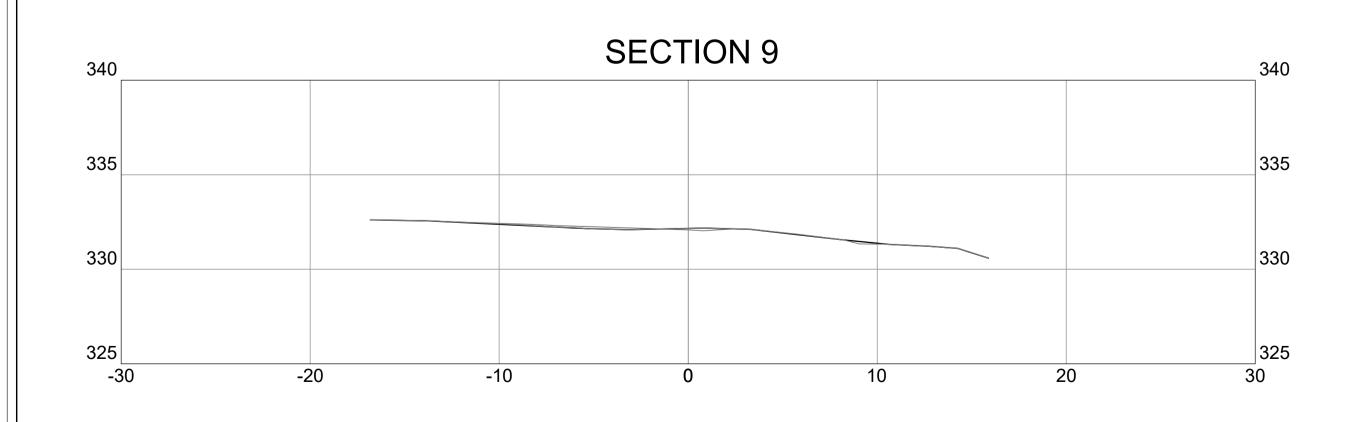
-30

-10

-20









LEGEND

DRAWING INFORMATION

ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY: WSP CANADA INC. YEAR: 2021 ADDRESS:582 LANCASTER ST W, KITCHENER, ON

3	2022/06/10	ISSUED FOR TENDER	NM	BVV
2	2022/03/03	90% SUBMISSION	NM	BVV
1	2022/01/28	60% SUBMISSION	NM	BVV
NO	DATE	REVISION/ISSUED	BY	APPD



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

TOWNSHIP OF WILMOT 60 SNYDER'S ROAD WEST BADEN, ON N3A 1A1

PROJECT TITLE:

NEW HAMBURG NITH RIVER PROMINADE

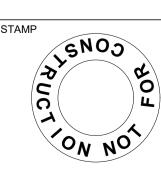
SP#

SITE ADDRESS:

BETWEEN GRCA DAM AND HARTMAN BRIDGE

DRAWING TITLE:

SECTIONS

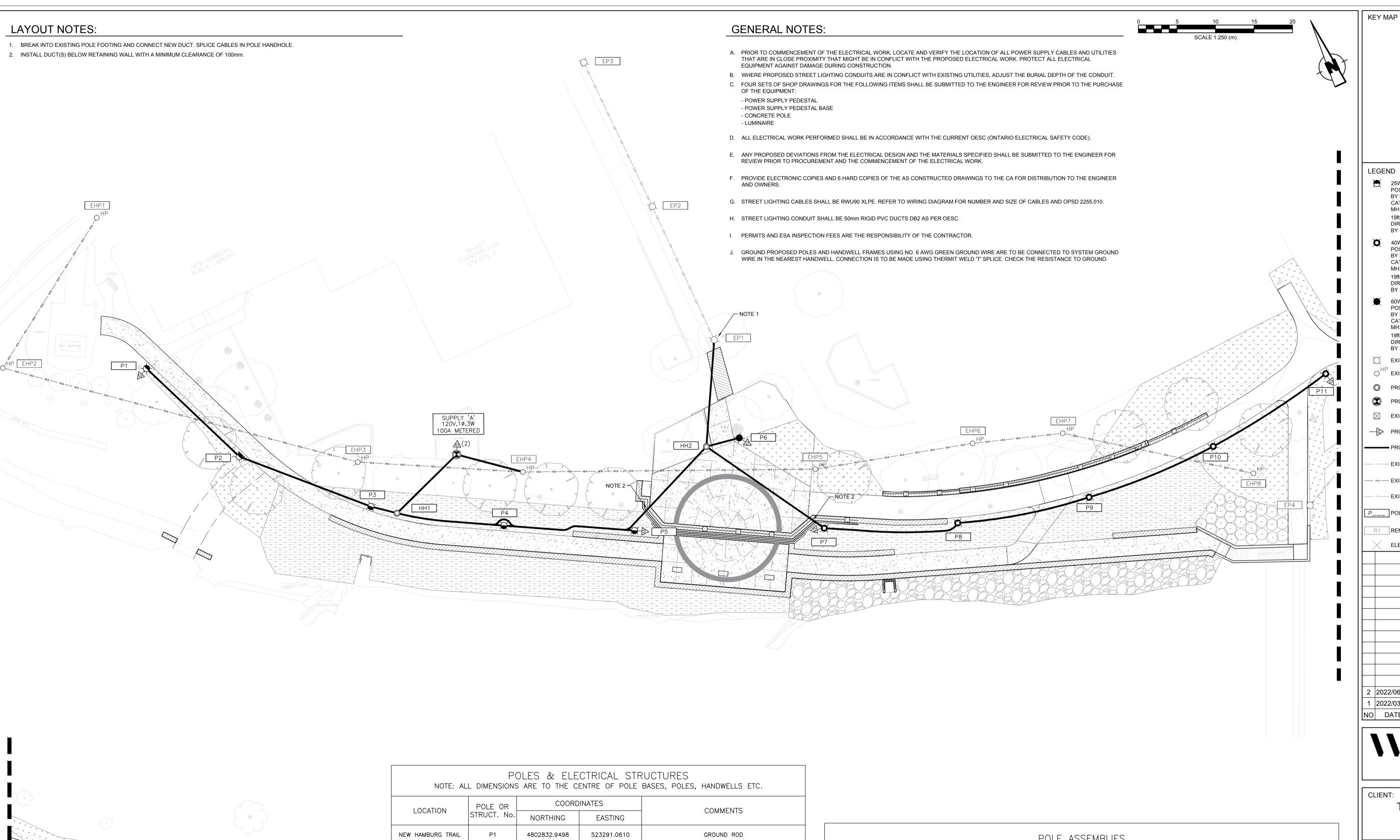


CHECKED AG DESIGNED BVV DRAWN NM SCALE 1:200
PROJECT NUMBER DATE JANUARY 2022

DWG. NUMBER

211-05070-00

L-610



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523309.6837

523324.2189

523339.2580

523356.7010

523361.6410

523377.5850

523394.4170

523411.8070

523429.0390

523312.3779

523357.8048

523322.6292

GROUND ROD

GROUND ROD

GROUND ROD

GROUND ROD

GROUND ROD (2)

NEW HAMBURG TRAIL

P2

P3

P4

P5

P6

P7

P8

P9

P10

P11

HH2

SUPPLY 'A'

4802817.4500

4802804.2552

4802794.6190

4802786.7580

4802791.7990

4802776.4750

4802769.6530

4802765.3570

4802764.4020

4802766.6570

4802802.0322

4802790.1238

4802805.5887

POLE ASSEMBLIES LUMINAIRE POLE NO. POLE DESCRIPTION LUMINAIRE COMMENTS BRACKET KBH14-G-S11 C/W 140-30/30 P1 POST TOP K118R-B2AR-III-25 (SSL)-1042-120-K13-PR-3K-BK KBH14-G-S11 C/W 140-30/30 POST TOP P2 K118R-B2AR-III-25 (SSL)-1042-120-K13-PR-3K-BK KBH14-G-S11 C/W 140-30/30 P3 POST TOP K118R-B2AR-III-25 (SSL)-1042-120-K13-PR-3K-BK KBH14-G-S11 C/W 140-30/30 POST TOP K118R-B2AR-III-25 (SSL)-1042-120-K13-PR-3K-BK P5 KBH14-G-S11 C/W 140-30/30 POST TOP K118R-B2AR-III-25 (SSL)-1042-120-K13-PR-3K-BK KBH14-G-S11 C/W 140-30/30 POST TOP K118R-B3AR-V-60 (SSL)-1036-120-K13-PR-3K-BK KBH14-G-S11 C/W 140-30/30 POST TOP K118R-B3AR-V-40 (SSL)-1036-120-K13-PR-3K-BK KBH14-G-S11 C/W 140-30/30 POST TOP P8 K118R-B3AR-V-40 (SSL)-1036-120-K13-PR-3K-BK P9 KBH14-G-S11 C/W 140-30/30 POST TOP K118R-B3AR-V-40 (SSL)-1036-120-K13-PR-3K-BK K118R-B3AR-V-40 (SSL)-1036-120-K13-PR-3K-BK P10 KBH14-G-S11 C/W 140-30/30 POST TOP KBH14-G-S11 C/W 140-30/30 K118R-B3AR-V-40 (SSL)-1036-120-K13-PR-3K-BK

LEGEND 25W LED, 3000K, TYPE III, COLOUR BLACK, POST TOP LUMINAIRE C/W PHOTO RECEPTACLE BY KING LUMINAIRE CATALOG NO: K118R-B2AR-III-25 (SSL)-1042-120-K13-PR-3K-BK MH: 4.3m LLF: 0.80 19ft OCTAGONAL CONCRETE, POLISHED, COLOUR ECLIPSE, DIRECT BURIED POLE, BY STRESSCRETE 40W LED, 3000K, TYPE V, COLOUR BLACK, POST TOP LUMINAIRE C/W PHOTO RECEPTACLE BY KING LUMINAIRE CATALOG NO: K118R-B3AR-V-40 (SSL)-1036-120-K13-PR-3K-BK MH: 4.3m LLF: 0.80 19ft OCTAGONAL CONCRETE, POLISHED, COLOUR ECLIPSE, DIRECT BURIED POLE, BY STRESSCRETE 60W LED, 3000K, TYPE V, COLOUR BLACK, POST TOP LUMINAIRE C/W PHOTO RECEPTACLE BY KING LUMINAIRE CATALOG NO: K118R-B3AR-V-60 (SSL)-1036-120-K13-PR-3K-BK MH: 4.3m LLF: 0.80 19ft OCTAGONAL CONCRETE, POLISHED, COLOUR ECLIPSE, DIRECT BURIED POLE, BY STRESSCRETE EXISTING LIGHTING POLE AND LUMINAIRE OHP EXISTING HYDRO POLE PROPOSED ELECTRICAL HANDHOLE PROPOSED PAD-MOUNTED POWER SUPPLY CABINET PROPOSED GROUND ROD PROPOSED LIGHTING CABLES IN DUCT(S) - EXISTING UNDERGROUND LIGHTING CABLES HCA --- EXISTING AERIAL HYDRO CABLES - EXISTING UNDERGROUND POWER CABLES P___ POLE IDENTIFICATION NUMBER R1 REMOVAL IDENTIFICATION NUMBER ELECTRICAL REMOVAL 100% SUBMISSION RL TT 90% SUBMISSION RL TT 1 2022/03/03 NO DATE REVISION/ISSUED BY APPD 582 Lancaster Street West Kitchener, ON N2K 1M3 t. 519-743-8777 TOWNSHIP OF WILMOT 60 SNYDER'S ROAD WEST BADEN, ON N3A 1A1 PROJECT TITLE: NEW HAMBURG NITH RIVER PROMENADE SP# SITE ADDRESS: BETWEEN GRCA DAM AND HARTMAN BRIDGE DRAWING TITLE:

ELECTRICAL LAYOUT

CHECKED TT

DWG. NUMBER

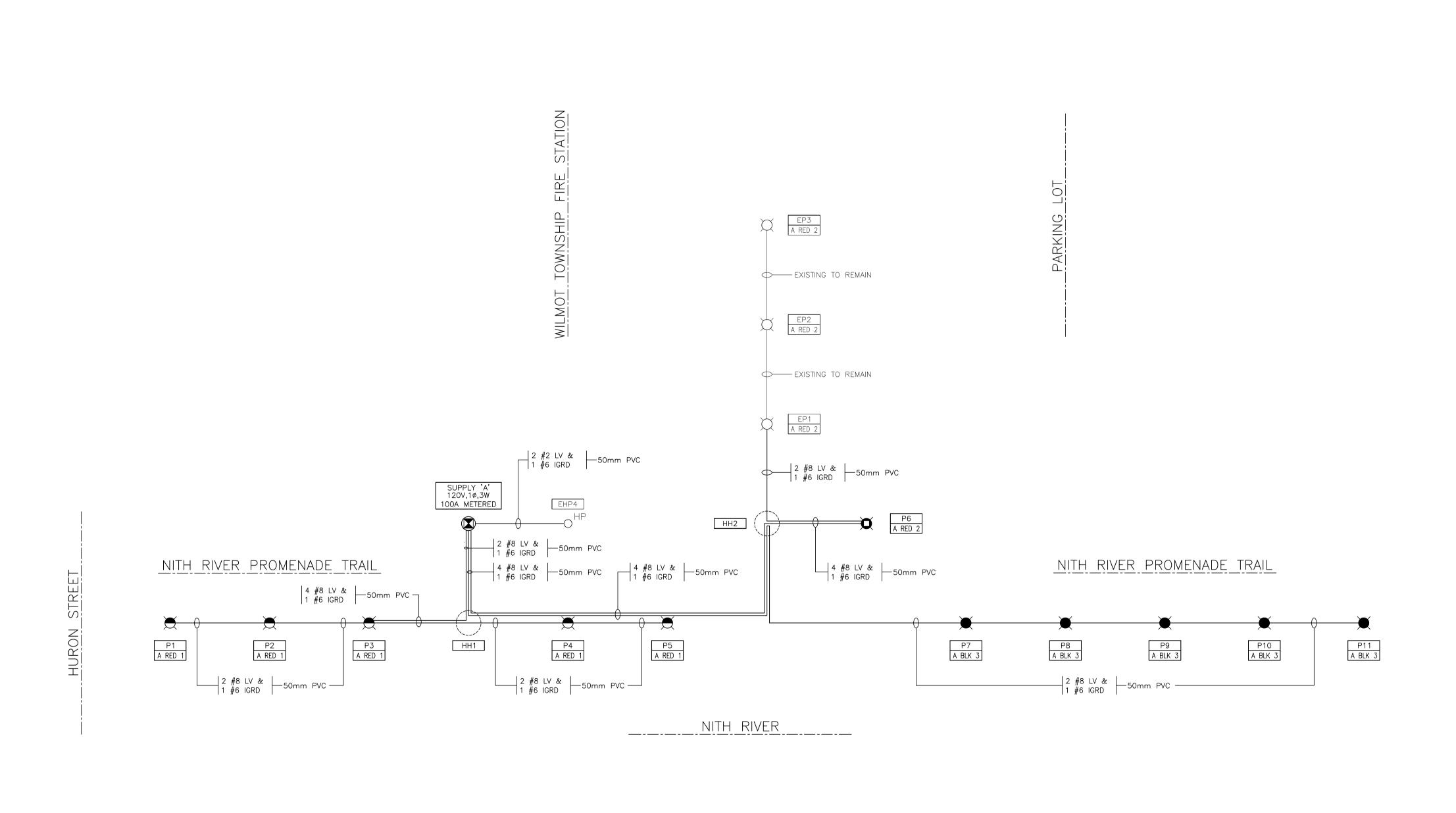
E-100

DATE JUNE 2022

DESIGNED RL

SCALE 1:250

PROJECT NUMBER



LOAD SUMMARY TABLE SUPPLY 'A' 120V, 1ø, 3W, 100A, METERED CIRCUIT BREAKER BREAKER CIRCUIT AMPERE RATING RATING NUMBER SUB-TOTAL LOAD * (WATTS) SUB-TOTAL LOAD * (WATTS) LOAD (WATTS) LOAD DESCRIPTION P1, P2, P3, P4, P5 | RED 1 | 30A 125 30A RED 2 EP1, EP2, EP3, P6 (3x50)+(1x60) 210 5x25 P7, P8, P9, P10, P11 200 BLK 3 30A 30A 5×40 BLK 4 RED 5 30A 30A RED 6 SPARE SPARE _ SPARE BLK 7 30A 30A BLK 8 SPARE SUB TOTAL RED PHASE = 335W SUB TOTAL BLACK PHASE = 200W

LEGEND 25W LED, 3000K, TYPE III, COLOUR BLACK, POST TOP LUMINAIRE C/W PHOTO RECEPTACLE BY KING LUMINAIRE CATALOG NO: K118R-B2AR-III-25 (SSL)-1042-120-K13-PR-3K-BK MH: 4.3m LLF: 0.80 19ft OCTAGONAL CONCRETE, POLISHED, COLOUR ECLIPSE, DIRECT BURIED POLE, BY STRESSCRETE 40W LED, 3000K, TYPE V, COLOUR BLACK, POST TOP LUMINAIRE C/W PHOTO RECEPTACLE BY KING LUMINAIRE CATALOG NO: K118R-B3AR-V-40 (SSL)-1036-120-K13-PR-3K-BK MH: 4.3m LLF: 0.80 19ft OCTAGONAL CONCRETE, POLISHED, COLOUR ECLIPSE, DIRECT BURIED POLE, BY STRESSCRETE 60W LED, 3000K, TYPE V, COLOUR BLACK, POST TOP LUMINAIRE C/W PHOTO RECEPTACLE BY KING LUMINAIRE CATALOG NO: K118R-B3AR-V-60 (SSL)-1036-120-K13-PR-3K-BK MH: 4.3m LLF: 0.80 19ft OCTAGONAL CONCRETE, POLISHED, COLOUR ECLIPSE, DIRECT BURIED POLE, BY STRESSCRETE EXISTING LIGHTING POLE AND LUMINAIRE ○ HP EXISTING HYDRO POLE PROPOSED ELECTRICAL HANDHOLE PROPOSED PAD-MOUNTED POWER SUPPLY CABINET PROPOSED GROUND ROD PROPOSED LIGHTING CABLES IN DUCT(S) EXISTING UNDERGROUND LIGHTING CABLES — HCA — EXISTING AERIAL HYDRO CABLES EXISTING UNDERGROUND POWER CABLES P___ POLE IDENTIFICATION NUMBER R1 REMOVAL IDENTIFICATION NUMBER ELECTRICAL REMOVAL

KEY MAP



1 2022/03/03

NO DATE

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

RL TT

RL TT

BY APPD

TOWNSHIP OF WILMOT 60 SNYDER'S ROAD WEST BADEN, ON N3A 1A1

100% SUBMISSION

90% SUBMISSION

REVISION/ISSUED

PROJECT TITLE:

NEW HAMBURG

NITH RIVER PROMENADE

SP#

SITE ADDRESS:

BETWEEN GRCA DAM AND HARTMAN BRIDGE

WIRING DIAGRAM

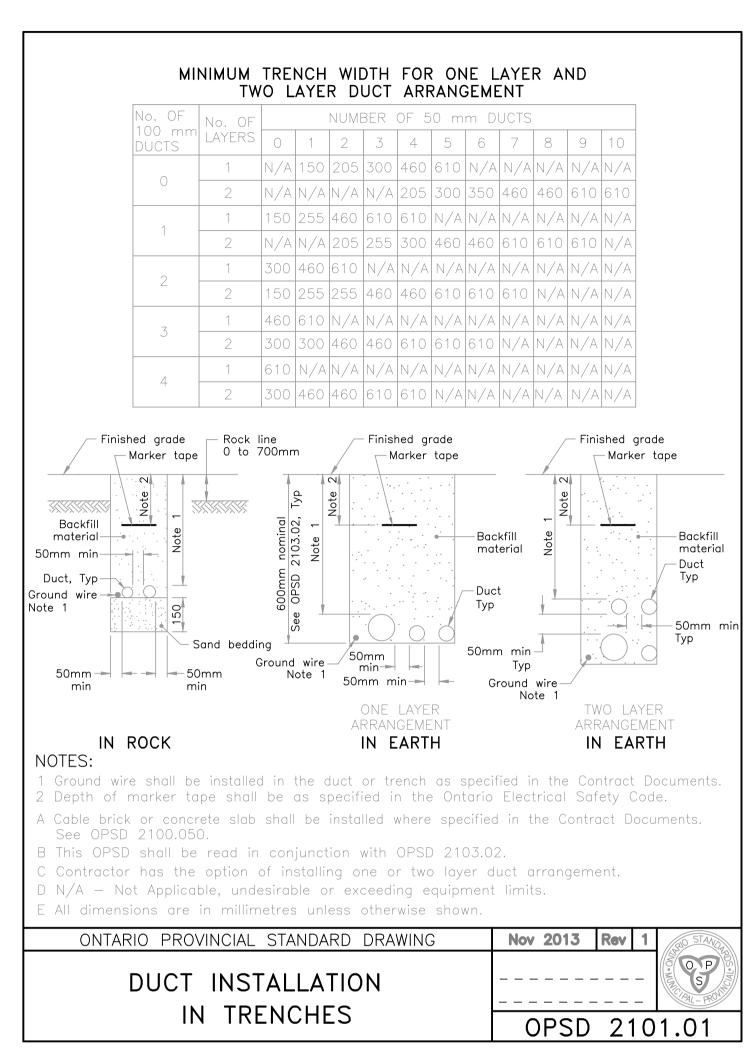
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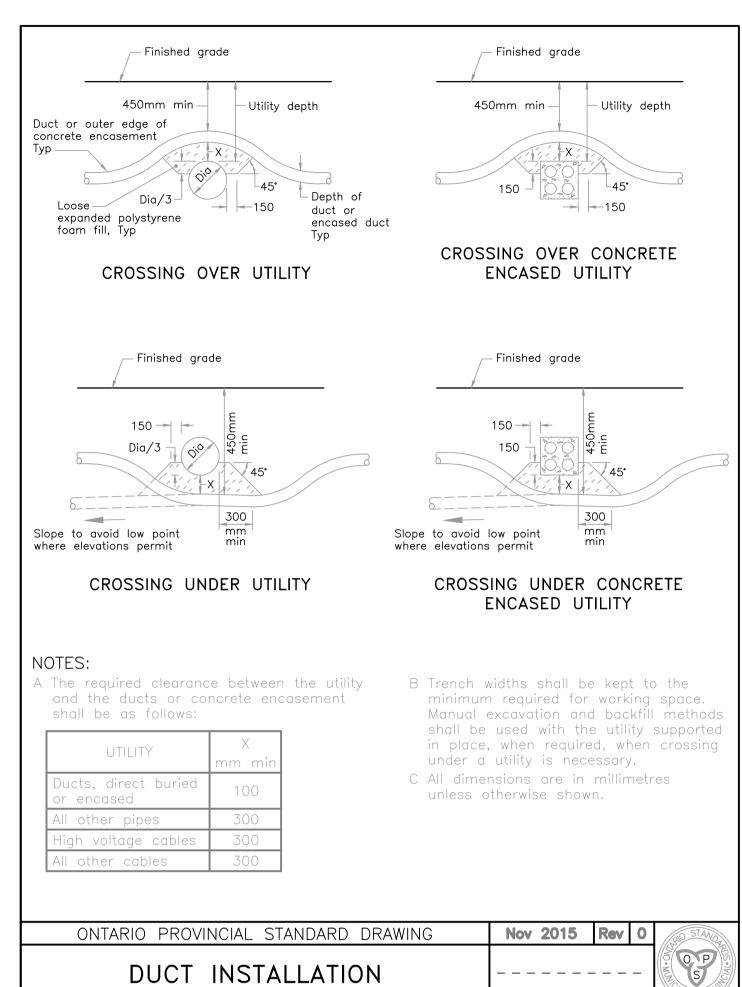
SCALE N.T.S. DATE JUNE 2022

DWG. NUMBER PROJECT NUMBER E-200

211-05070-00

TOTAL LOAD = 535W



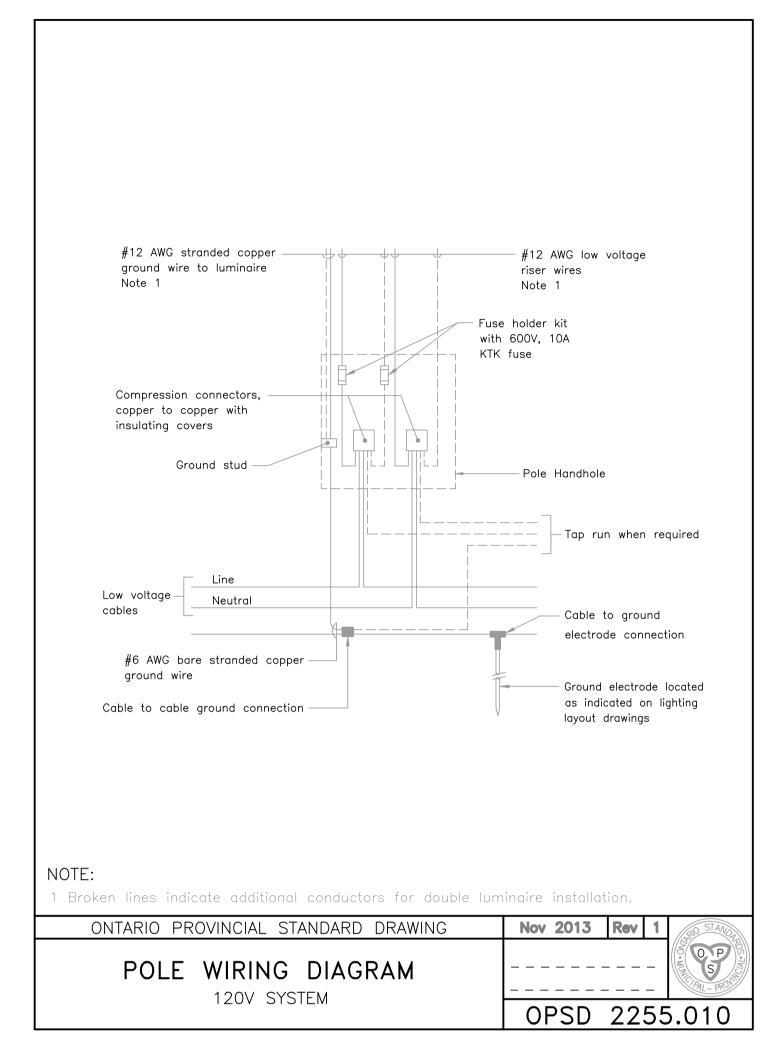


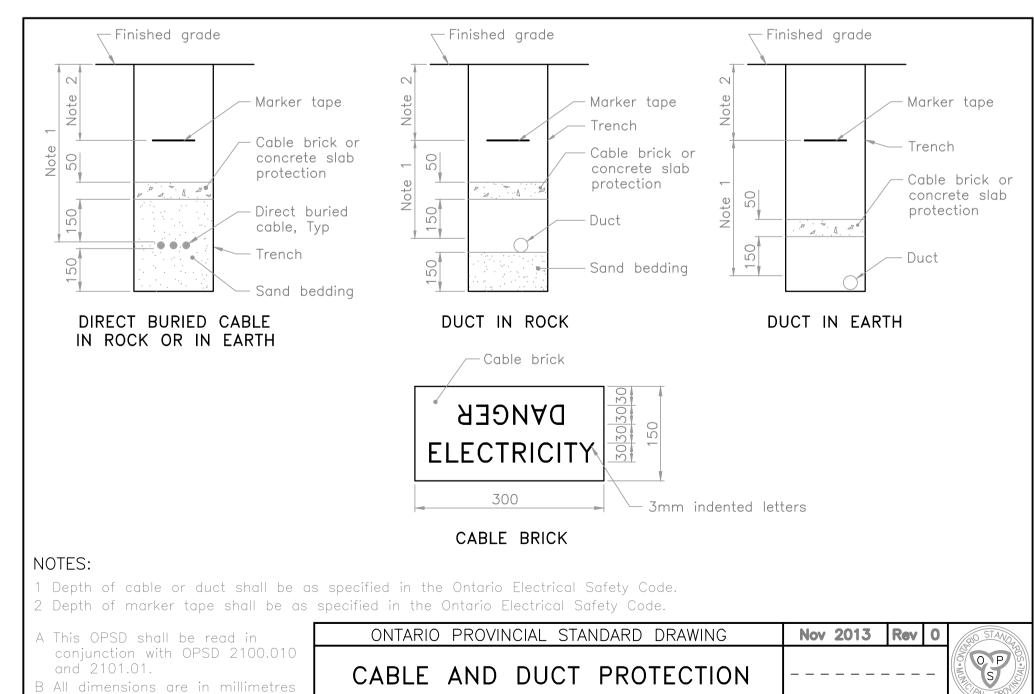
AT UTILITY CROSSINGS

OPSD 2100.050

- - - - - - - - |

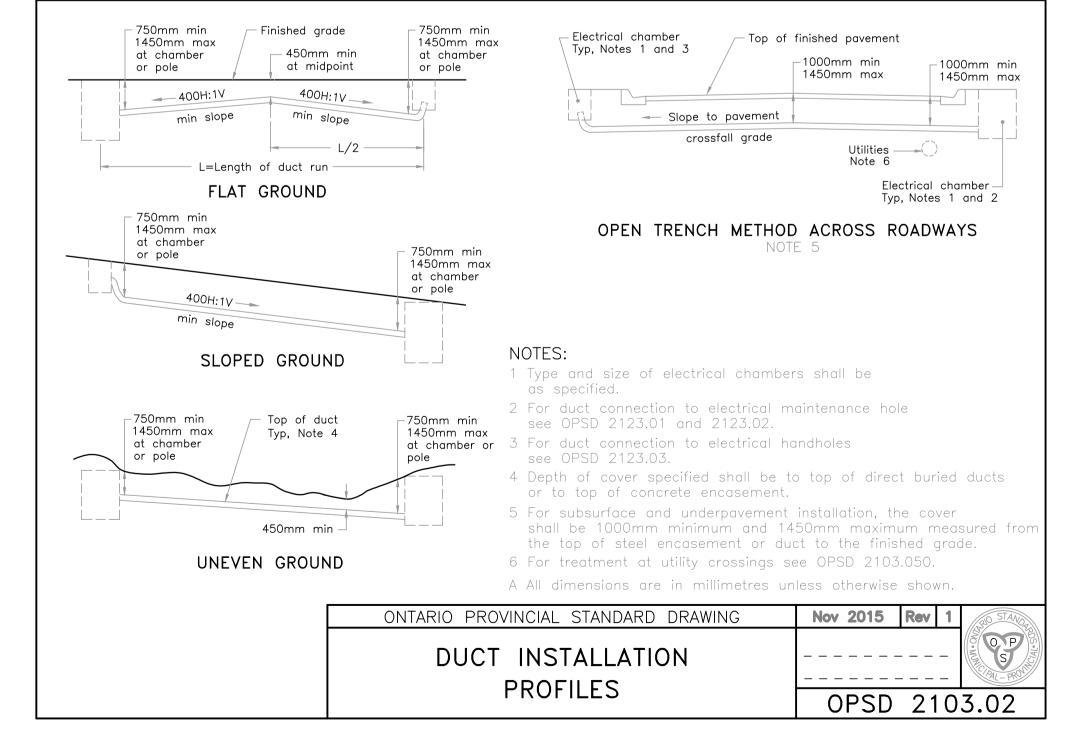
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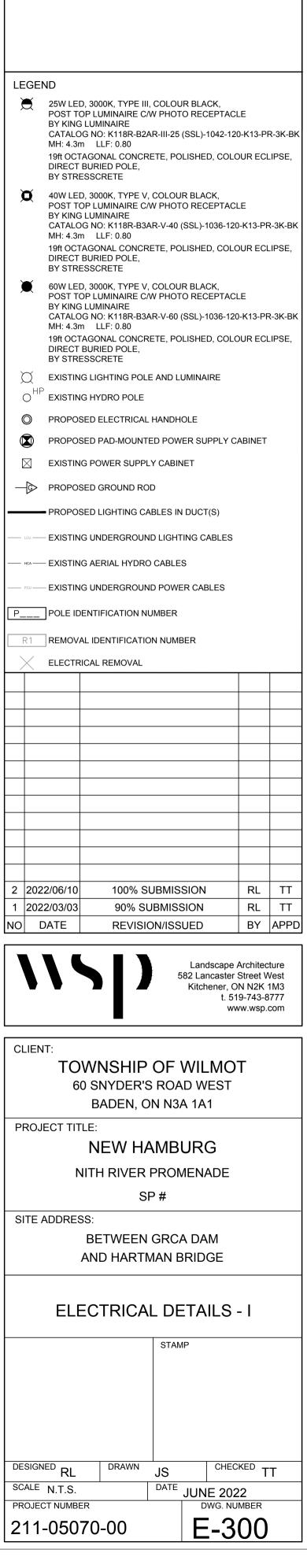




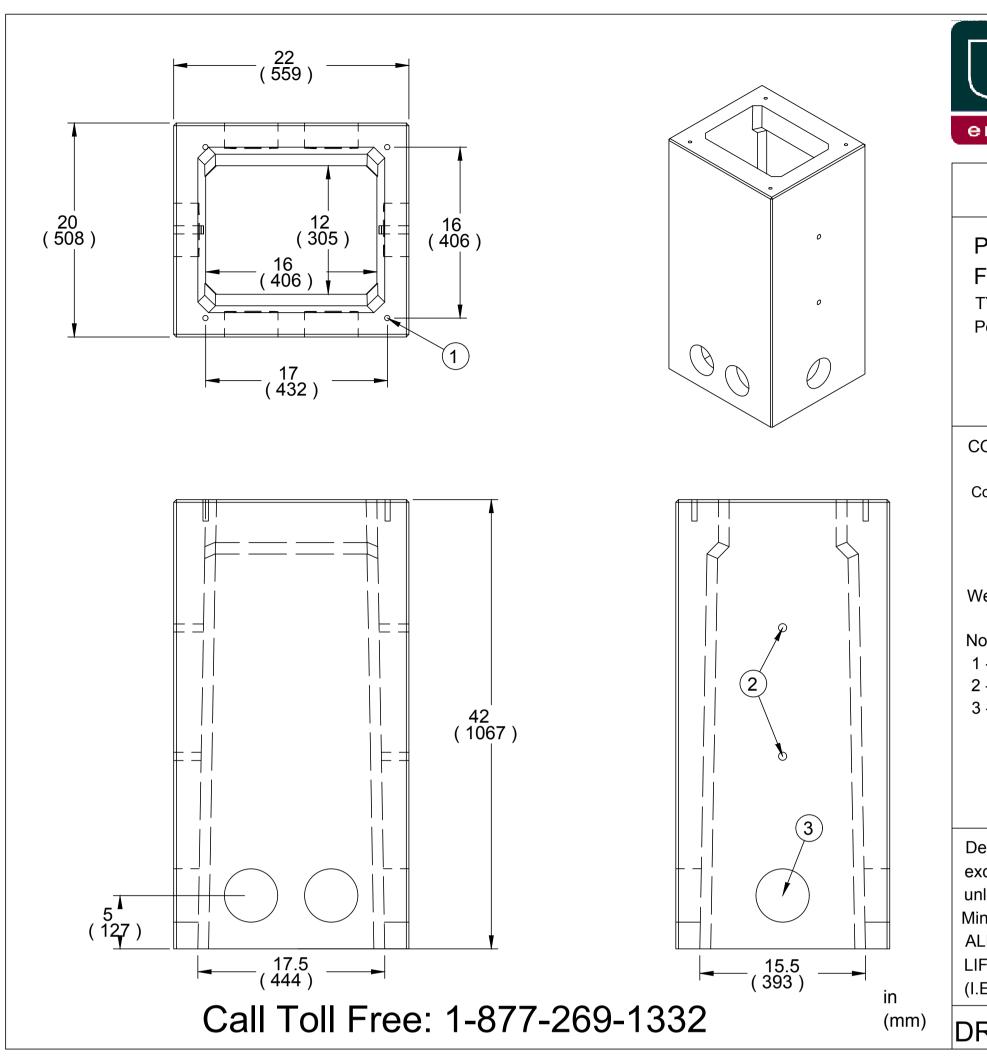
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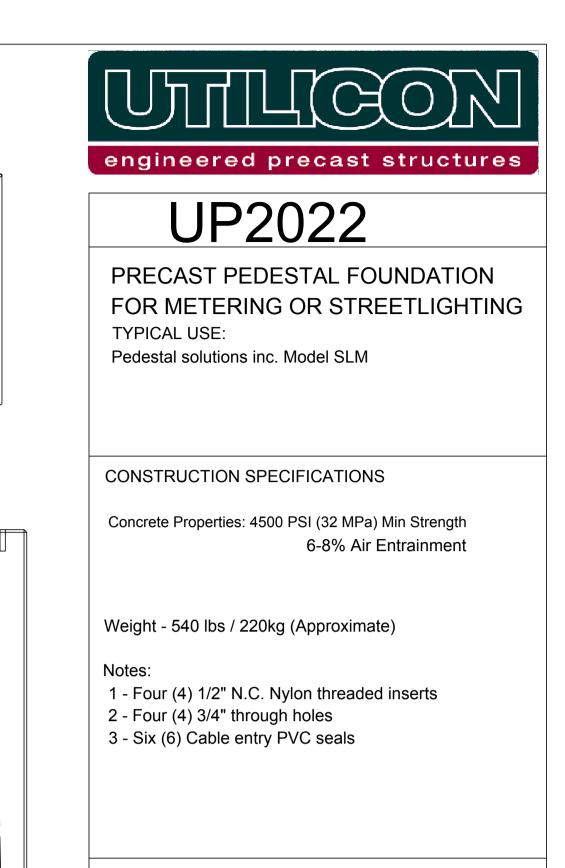
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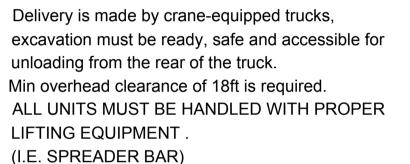




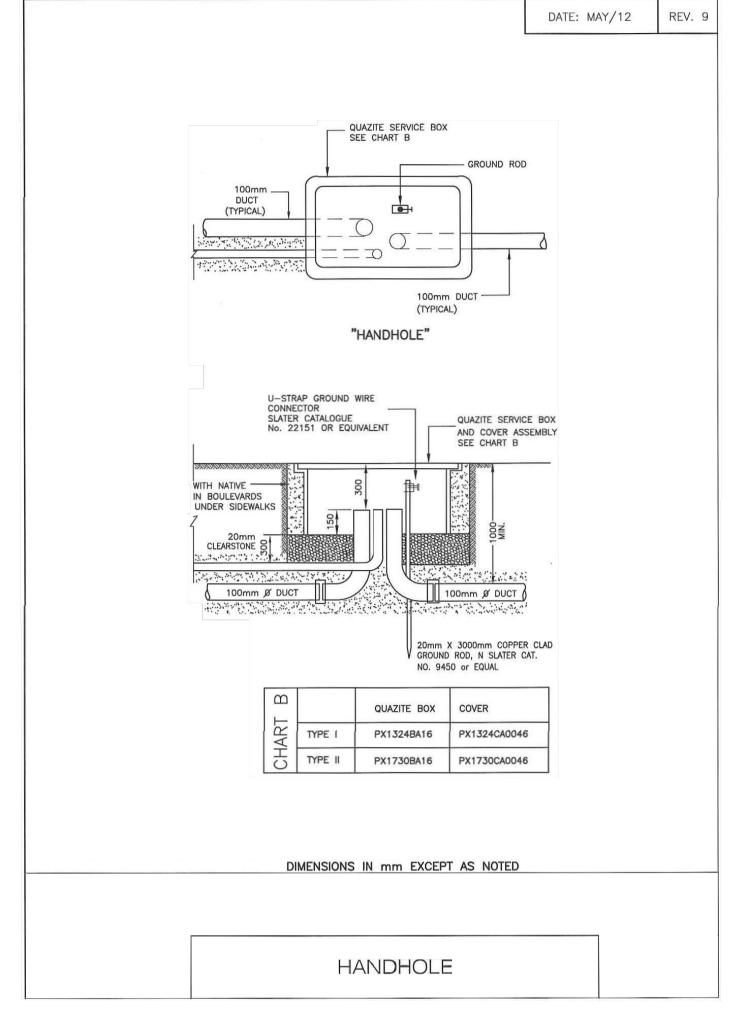
KEY MAP

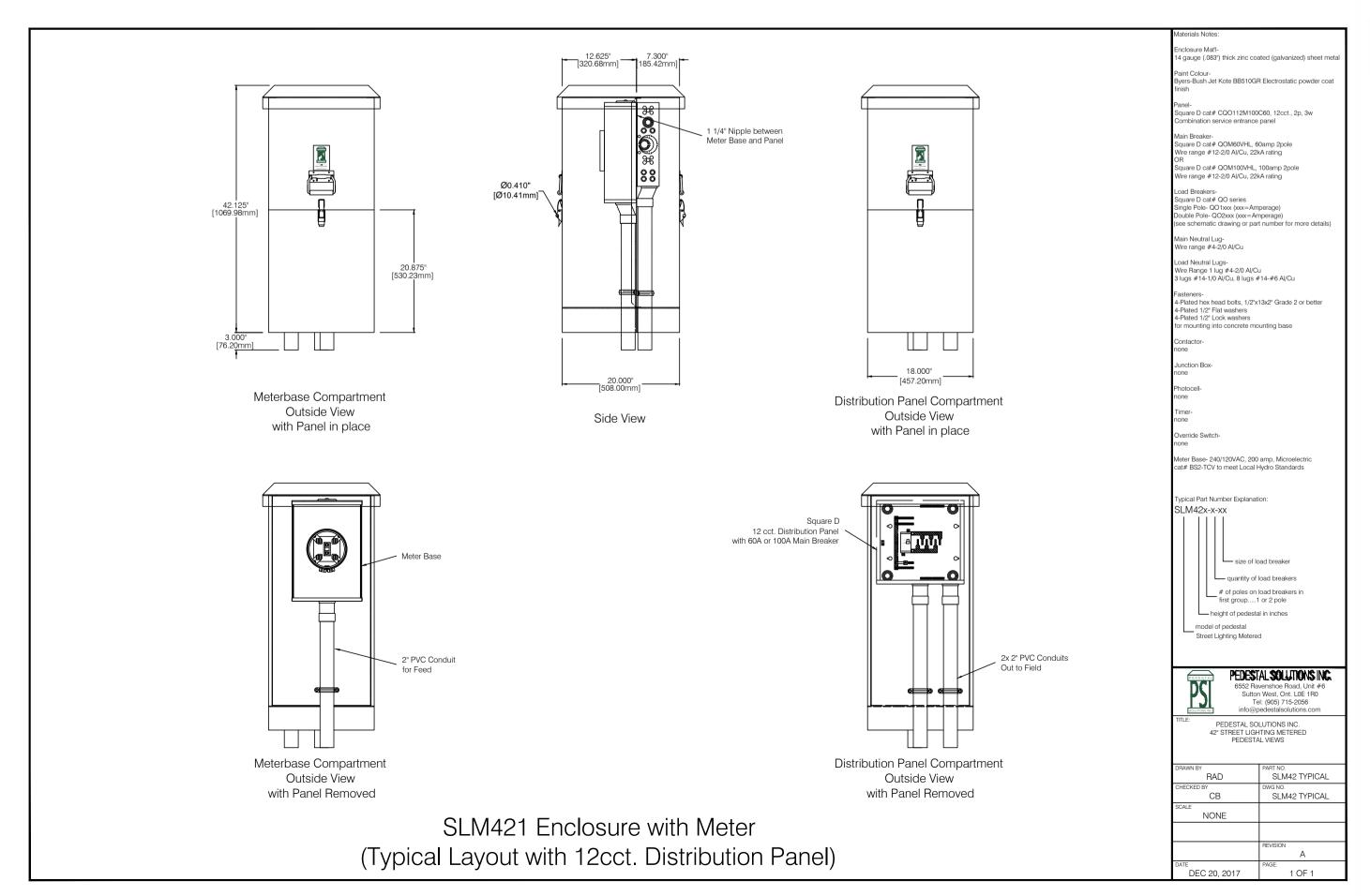


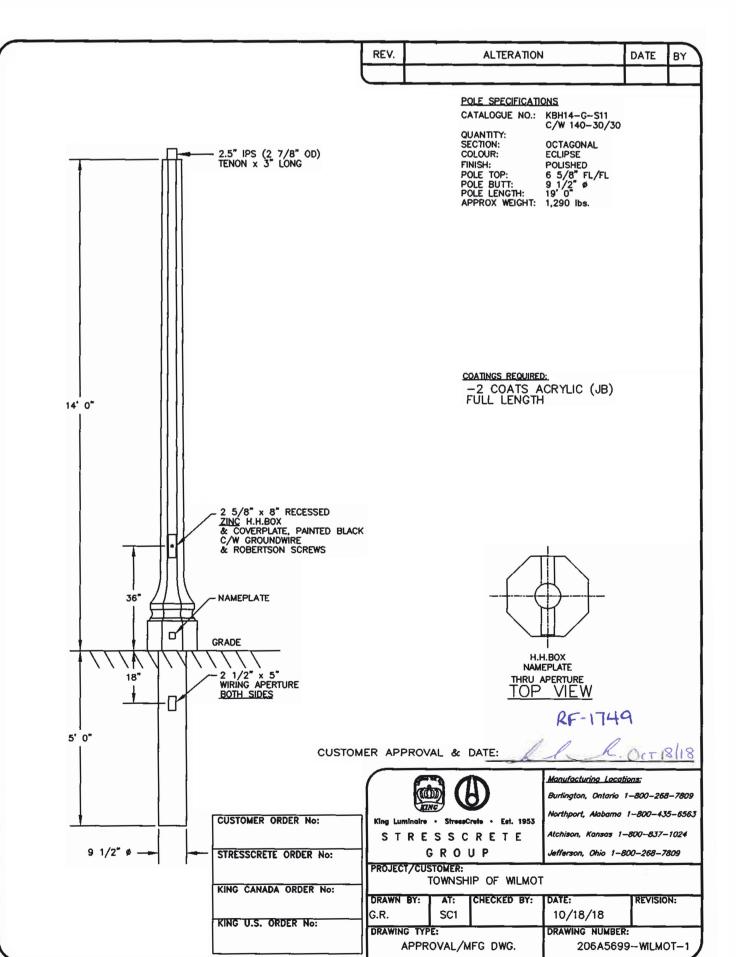


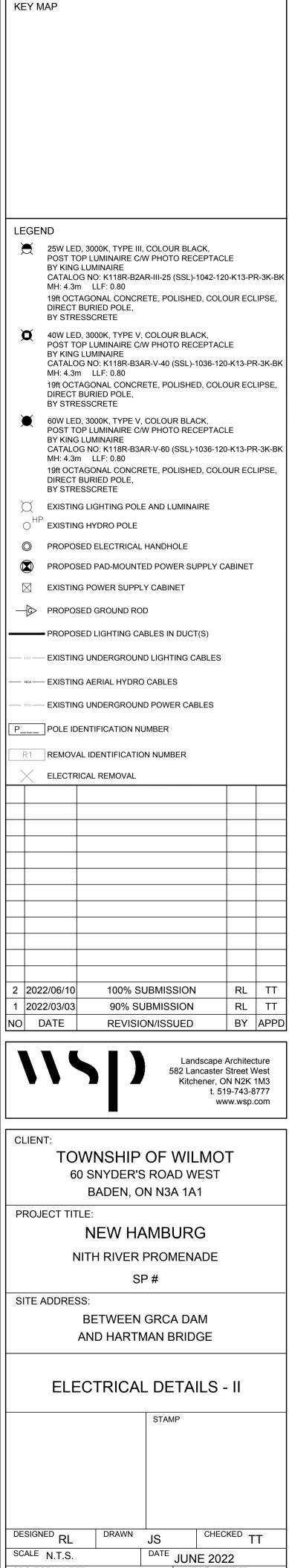


DRAWN BY: RM July 2010





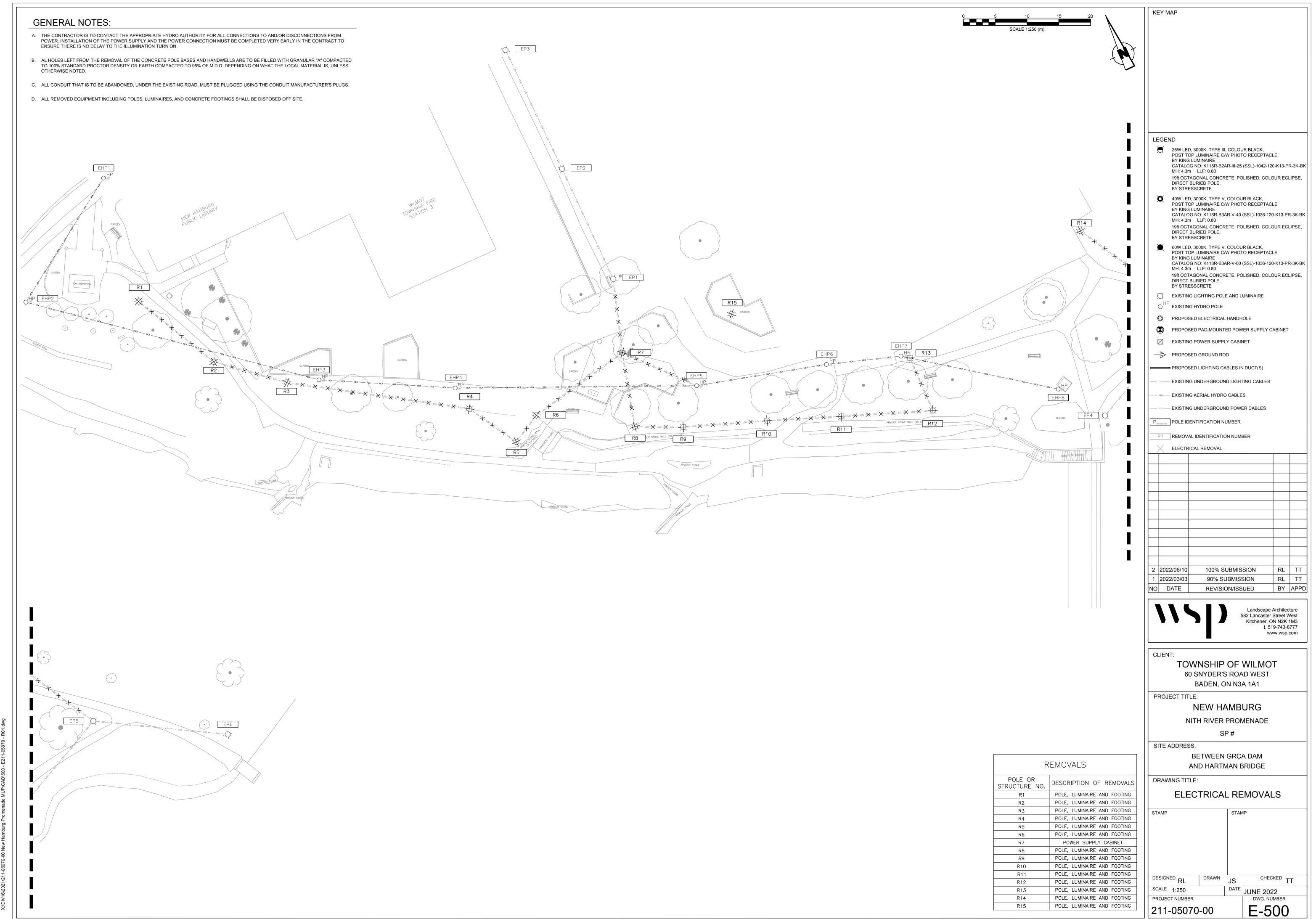


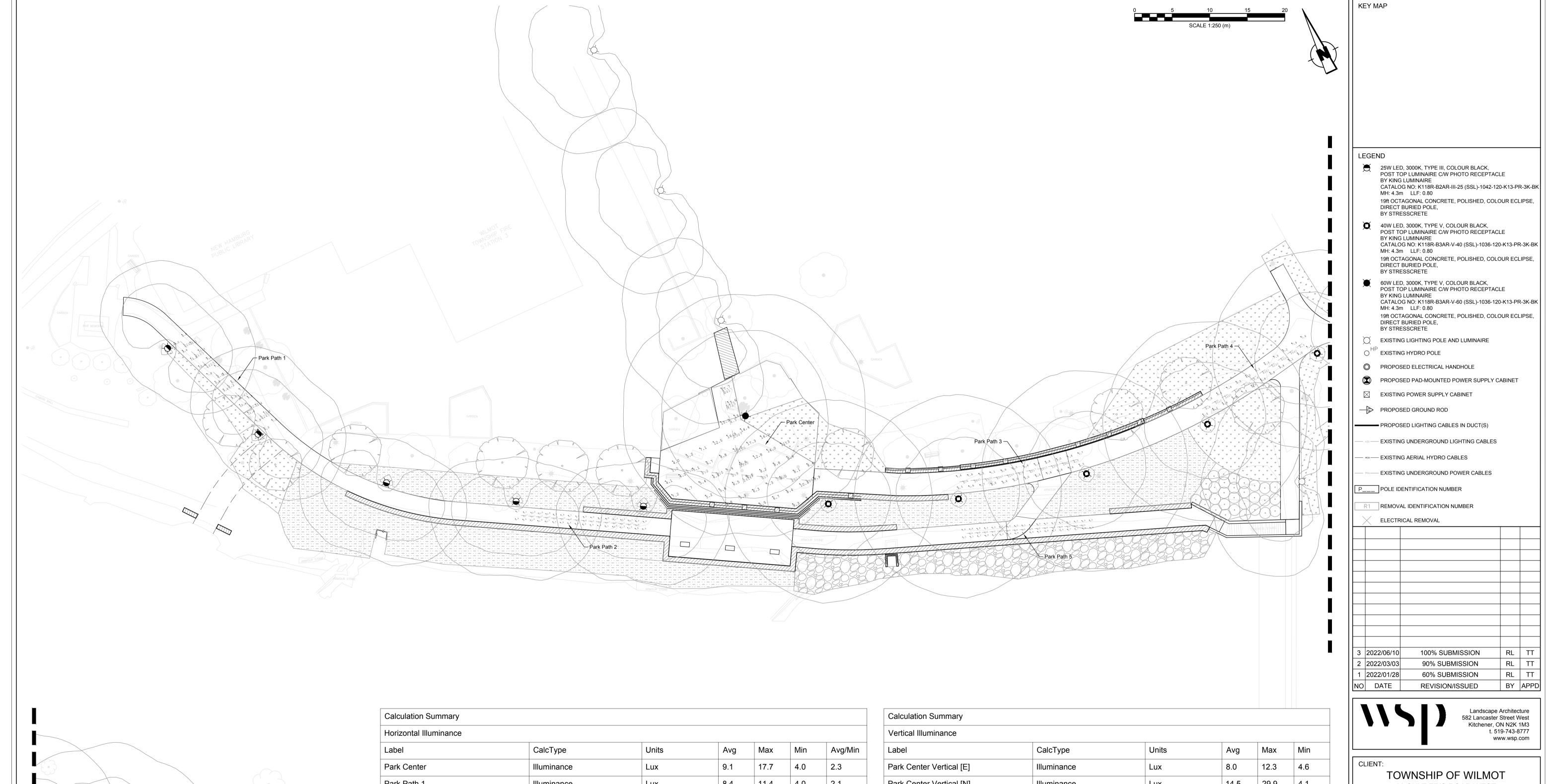


PROJECT NUMBER 211-05070-00

E-400

DWG. NUMBER





Calculation Summary						
Horizontal Illuminance						
Label	СаІсТуре	Units	Avg	Max	Min	Avg/Min
Park Center	Illuminance	Lux	9.1	17.7	4.0	2.3
Park Path 1	Illuminance	Lux	8.4	11.4	4.0	2.1
Park Path 2	Illuminance	Lux	8.8	13.1	5.7	1.6
Park Path 3	Illuminance	Lux	7.1	9.2	5.6	1.3
Park Path 4	Illuminance	Lux	7.6	9.6	6.2	1.2
Park Path 5	Illuminance	Lux	4.6	7.9	3.5	1.3
		1	1			

DESIGN CRITERIA - MEDIUM PEDESTRIAN	
CONFLICT AREAS	

STANDARD: IES RP-8-21, CHAPTER 11, SECTION 11.6.3, TABLE 11-2

RECOMMENDED DESIGN CRITERIA FOR WALKWAYS WITHIN ROAD RIGHT OF WAY

LOCATION: NEW HAMBURG PROMENADE

CONDITION	MINIMUM MAINTAINED AVERAGE HORIZONTAL ILLUMINANCE (LUX)	AVERAGE VERTICAL ILLUMINANCE AT 1.5M ABOVE PAVEMENT (LUX)	UNIFORMITY RATIO (AVG./MIN.)*
MEDIUM PEDESTRIAN ACTIVITY LEVEL	5	2	5.0

Label	CalcType	Units	Avg	Max	Min
Park Center Vertical [E]	Illuminance	Lux	8.0	12.3	4.6
Park Center Vertical [N]	Illuminance	Lux	14.5	29.9	4.1
Park Center Vertical [S]	Illuminance	Lux	8.9	27.9	1.5
Park Center Vertical [W]	Illuminance	Lux	3.2	7.2	0.9
Park Path 1 Vertical [E]	Illuminance	Lux	7.3	20.7	0.6
Park Path 1 Vertical [W]	Illuminance	Lux	7.4	21.5	0.4
Park Path 2 Vertical [E]	Illuminance	Lux	7.2	19.2	0.9
Park Path 2 Vertical [W]	Illuminance	Lux	7.4	21.9	0.4
Park Path 3 Vertical [E]	Illuminance	Lux	8.0	14.1	2.2
Park Path 3 Vertical [W]	Illuminance	Lux	7.9	14.5	2.1
Park Path 4 Vertical [E]	Illuminance	Lux	7.8	14.0	2.6
Park Path 4 Vertical [W]	Illuminance	Lux	8.4	15.0	2.7
Park Path 5 Vertical [E]	Illuminance	Lux	3.3	4.8	1.6
Park Path 5 Vertical [W]	Illuminance	Lux	4.8	7.6	1.7

60 SNYDER'S ROAD WEST BADEN, ON N3A 1A1

PROJECT TITLE:

NEW HAMBURG

NITH RIVER PROMENADE SP#

SITE ADDRESS:

BETWEEN GRCA DAM AND HARTMAN BRIDGE

DRAWING TITLE:

LIGHTING CALCULATIONS

STAMP		STAM	1P
DESIGNED DI	DRAWN	10	CHECKED TT
DESIGNED RL	DRAWN	JS	CHECKED TT
DESIGNED RL SCALE 1:250	DRAWN	DATE	11

E-600 211-05070-00