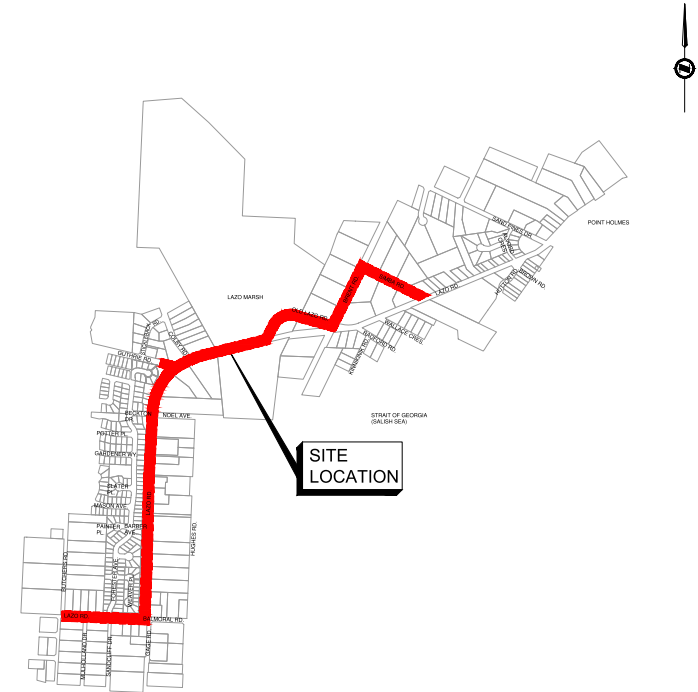


LAZO GREENWAY MULTIUSE PATHWAY BUTCHERS ROAD TO SIMBA ROAD

TOWN OF COMOX, B.C.



LOCATION PLAN
NTS



SITE PLAN
NTS

DRAWING SCHEDULE

Sheet Number	Sheet Title
00	COVER
01	KEY 1
02	GENERAL NOTES
ROAD WORKS	
03	ROAD WORKS - STA. 2+000 TO 2+340
04	ROAD WORKS - STA. 2+340 TO 2+620
05	ROAD WORKS - STA. 2+620 TO 2+970
06	ROAD WORKS - STA. 2+970 TO 3+330
07	ROAD WORKS - STA. 3+330 TO 3+610
08	ROAD WORKS - STA. 3+610 TO 4+000
09	ROAD WORKS - STA. 4+000 TO 4+360
10	ROAD WORKS - STA. 4+360 TO 4+640
11	ROAD WORKS - TYPICAL SECTIONS
12	ROAD WORKS - TYPICAL DETAILS
CROSS SECTIONS	
13	CROSS SECTIONS - 2+020 TO 2+550
14	CROSS SECTIONS - 2+550 TO 3+050
15	CROSS SECTIONS - 3+050 TO 3+570
16	CROSS SECTIONS - 3+580 TO 4+350
17	CROSS SECTIONS - 4+360 TO 4+620
SIGNAGE	
18	SIGNAGE - LEGEND AND DETAILS
19	PAVEMENT MARKINGS AND SIGNAGE - STA 2+000 TO STA 2+620
20	PAVEMENT MARKINGS AND SIGNAGE - STA 2+620 TO STA 3+300
21	PAVEMENT MARKINGS AND SIGNAGE - STA 3+300 TO STA 4+020
22	PAVEMENT MARKINGS AND SIGNAGE - STA 4+020 TO STA 4+635
L-01	LAZO GREENWAY MULTIUSE PATH - LANDSCAPE PLAN
L-02	LAZO GREENWAY MULTIUSE PATH - LANDSCAPE PLAN
L-03	LAZO GREENWAY MULTIUSE PATH - LANDSCAPE DETAILS AND NOTES

Permit to Practice
ISL Engineering and Land Services Ltd.

RR Signature: _____
RR EGBC ID: **45121**
Date: **2023-11-07**

Permit Number 1000419
Engineers & Geoscientists British Columbia



1051 Vancouver St, Victoria, BC V8V 3K3
T: (250)361-3230 F: (604)629-5756

**RE-ISSUED FOR PERMIT
PROJECT NO. 33006**

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS WAS IN ACCORDANCE WITH:
 - THE MASTER MUNICIPAL CONSTRUCTION DOCUMENT AND STANDARD DETAIL DRAWINGS (MDCD 2019),LATEST EDITION (PLATINUM EDITION).
 - THE TOWN OF COMOX SUBDIVISION AND DEVELOPMENT BYLAWS UNLESS OTHERWISE NOTED.
 - APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED THEREIN.
 - THE LATEST M.O.T.I.'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION VOLUME 1 AND 2.
 - MINISTRY OF TRANSPORTATION 'BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS', LATEST EDITION.
 - WORKSAFEBC, LATEST EDITION.
- THE CONTRACTOR MAINTAINED ON SITE COPIES OF THE ABOVE DOCUMENTS AND ENSURED THAT ALL SUB CONTRACTORS WERE THOROUGHLY FAMILIAR WITH THE APPLICABLE SECTIONS OF THE DOCUMENTS
- THE CONTRACTOR REPAIRED OR REPLACED ANY EXISTING ROAD SURFACES, SERVICES, SIGNS, LANDSCAPING, DRIVEWAY LETDOWNS, PRIVATE LANDSCAPING, OR PRIVATE IMPROVEMENTS THAT WERE DAMAGED AS A RESULT OF CONSTRUCTION. REPAIRS TO EXISTING TOWN SERVICES SUCH AS WATER, SANITARY SEWER, STORM SEWER, AND STREET OR TRAFFIC LIGHTING WERE MADE BY THE OWNER AT COST TO THE CONTRACTOR. REPAIRS TO EXISTING SURFACE WORKS WERE DONE BY THE CONTRACTOR AT THE DISCRETION OF THE CONTRACT ADMINISTRATOR.
- RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION SHALL BE GIVEN AT LEAST 10 DAYS NOTICE PRIOR TO THE START OF CONSTRUCTION. IF CONSTRUCTION ENTERS ONTO PRIVATE PROPERTY, THE CONTRACTOR WILL REQUIRE WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER PRIOR TO UNDERTAKING ANY WORK.
- THE LOCATION OF EXISTING UTILITIES IS BASED ON INFORMATION GATHERED FROM TOWN OF COMOX AND UTILITY SUPPLIED RECORD DRAWINGS AND IS INTENDED TO BE APPROXIMATE. FOR PRECISE LOCATIONS AND EXTENT OF UTILITIES, IT IS IMPERATIVE TO ENGAGE LOCAL AUTHORITIES AND UTILITY COMPANIES FOR CONFIRMATION. BEFORE PROCEEDING WITH EXCAVATION, THE CONTRACTOR MUST CONDUCT A BC 1 CALL AND ENSURE THE EXACT LOCATION AND INVERT ELEVATION THROUGH HAND OR HYDROVAC EXCAVATION PRIOR TO ANY UTILITY CROSSINGS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR RESTORING ANY DAMAGE TO EXISTING UTILITIES. COSTS ARISING FROM UTILITY CONFLICTS THAT WERE NOT PREVIOUSLY LOCATED WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONNECTIONS TO EXISTING MUNICIPAL INFRASTRUCTURE TO BE COORDINATED WITH THE TOWN OF COMOX (48 HOURS NOTICE REQUIRED)
- REPORT ANY DISCREPANCIES TO THE ENGINEER A MIN 72 HOURS PRIOR TO CONSTRUCTION
- RESTORATION OF EXISTING DRIVEWAYS AND WALKWAYS TO CONFORM TO TOWN OF COMOX SPECIFICATIONS. ALL PROPOSED DRIVEWAY WIDTHS AT A MINIMUM OF 6.0m UNLESS OTHERWISE NOTED.
- ALL SURVEY MONUMENTS WITHIN THE PROJECT BOUNDARIES SHALL BE PROTECTED DURING THE COURSE OF THE WORK. ALL DISTURBED MONUMENTS WILL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THERE IS NO DISRUPTION TO SERVICE, AND IF DISRUPTION IS ANTICIPATED, TO NOTIFY THE ENGINEER A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED MATERIAL UNSUITABLE FOR REUSE AT A SUITABLE OFF-SITE DISPOSAL AREA, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY POLE SUPPORTS NECESSARY TO COMPLETE THE WORKS AS AN INCIDENTAL ITEM TO GENERAL CONTRACT REQUIREMENTS WHERE AND AS REQUIRED.
- CONTRACTOR TO MAINTAIN AN UP TO DATE SET OF AS-CONSTRUCTED DRAWINGS AT ALL TIMES. AS-CONSTRUCTED DRAWINGS TO BE DELIVERED TO THE ENGINEER AT SUBSTANTIAL PERFORMANCE FOR PREPARATION OF FINAL RECORD DRAWINGS.
- EXISTING EDGE OF ASPHALT SHALL BE SAW-CUT IN LONG, STRAIGHT, LINES AS REQUIRED PRIOR TO PAVING. MAINTAIN SAW-CUT 600mm CLEAR OF PROPOSED CURBING. WHERE EXISTING ASPHALT THICKNESS AT THE TIE-IN IS EQUAL OR GREATER THAN 75mm, A 300mm X 50mm DEPTH STEP-JOINT IS REQUIRED.
- ALL DISTURBED AREAS TO BE RESTORED TO EQUAL OR BETTER CONDITION THAN EXISTING AT THE COST OF THE CONTRACTOR.
- ALL METAL CASTINGS FOR UNDERGROUND INFRASTRUCTURE (i.e. MANHOLES, WATER VALVES CATCH BASINS etc.) TO BE RAISED TO SUIT FINAL PAVEMENT GRADES. RAISING CATCH BASIN GRATES TO INCLUDE REMOVING AND REPLACING SHORT SECTIONS OF EX. CURB IF REQUIRED.
- ALL EXISTING MATERIALS RENDERED SURPLUS THROUGH CONSTRUCTION TO BE RETURNED TO THE TOWN OF COMOX PUBLIC WORKS YARD UPON CONFIRMATION OF DESIRE TO RETAIN.
- ANY DAMAGES CAUSED TO EXISTING PRIVATE IRRIGATION SYSTEMS TO BE REPAIRED/RESTORED BY THE CONTRACTOR. CONTRACTOR TO VERIFY POTENTIAL IRRIGATION LOCATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO HAVE PRE-CONSTRUCTION MEETING AND NOTIFY THE ENGINEER, TOWN OF COMOX, AND CVRD REPRESENTATIVES ONE (1) WEEK PRIOR TO BEGINNING WORK.
- RESTORATION OF ITEMS NOT SPECIFICALLY IDENTIFIED IN THE SCHEDULE OF QUANTITIES WERE INCLUDED IN THE PAY ITEM MOST CLOSELY MATCHING THE WORK REQUIRED.
- ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS WERE KEPT IN A CLEAN STATE AT ALL TIMES AND FREE OF EQUIPMENT AND MATERIALS AT ALL TIMES WHEN CONSTRUCTION ACTIVITY WAS NOT UNDERWAY. DUST CONTROL MEASURES WERE ALSO EMPLOYED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR IS TO PROVIDE TEMPORARY WARM MIX ASPHALT PATCHING TO MDCD REQUIREMENTS AT LOCATIONS SPECIFIED IN THE CONTRACT DOCUMENTS. TEMPORARY ASPHALT PATCHING IS TO MATCH THE EXISTING ASPHALT THICKNESS WITH A MINIMUM OF 150mm AND MATCH THE EXISTING ASPHALT SURFACE. USE OF COLD MIX IS NOT ACCEPTABLE. TEMPORARY PATCHING OF SIDEWALKS AND CURBS AND GUTTERS ARE ALSO MADE WITH HOT MIX AND MEET THE EXISTING SURFACE.
- ALL GRASS AREAS WERE REINSTATED WITH TOPSOIL AND SODDING OR HYDROSEEDING (APPROVED BY CONTRACT ADMINISTRATOR) TO EXISTING OR BETTER CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR A 1 YEAR MAINTENANCE PERIOD.
- CONTRACTOR IS TO SAW-CUT EXISTING PRIVATE WALKWAYS AT THE EDGE OF THE NEW MUP TO PROVIDE A FLUSH CONNECTION. NEW MUP CROSS-FALLS WERE ADJUSTED AS DIRECTED BY THE CONTRACT ADMINISTRATOR TO SUIT EXISTING WALKWAY GRADES. WHERE EXISTING WALKWAY MATERIAL OR GRADES ARE LIMITED THE ABILITY TO SAW-CUT AND/OR MATCH GRADES. THE EXISTING WALKWAY WAS PARTIALLY OR FULLY REPLACED MATCHING EXISTING MATERIAL AS CLOSELY AS POSSIBLE. NEW MUP ASPHALT THICKNESS IS INCREASED TO 75mm AT ALL DRIVEWAYS CROSSINGS.
- CONTRACTOR TO PROVIDE ONE WEEK ADVANCE NOTICE TO HOMEOWNER PRIOR TO THE REMOVAL OF ANY HOMEOWNER PERSONAL INFRASTRUCTURE. DISPOSAL OF SUCH INFRASTRUCTURE OFFSITE SHALL NOT OCCUR UNLESS CONFIRMED AND APPROVED BY THE HOMEOWNER.
- CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT OF EXISTING JUNCTION BOXES, WATER VALVES, CATCH BASINS, AND ETC. TO MATCH THE NEW DESIGN GRADES.
- CONCRETE SIDEWALKS ARE TO BE PER MDCD STANDARD DRAWING C2 WITH 100mm THICK CONCRETE AND 100mm GRANULAR BASE.
- CONCRETE DRIVEWAY LETDOWNS AS PER MDCD STANDARD DRAWING C7 WITH 150mm THICK CONCRETE, 100mm THICK GRANULAR BASE, AND 100mm GRANULAR SUBBASE.
- CONTRACTORS TO EXTEND ALL EXISTING CULVERTS AS REQUIRED TO ENSURE A FULLY FUNCTIONAL DRAINAGE SYSTEM. INSTALL HEADWALLS UNDER THE DIRECTION OF THE CA.
- CONTRACTOR TO CONFIRM CULVERT INLET AND OUTLET INVERTS WITH ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL, AT THE CONTRACTOR'S OWN EXPENSE, PROMPTLY CORRECT DEFECTS OR DEFICIENCIES IN THE WORK THAT APPEAR PRIOR TO AND DURING THE PERIOD OF ONE YEAR FROM THE DATE OF CERTIFICATE OF SUBSTANTIAL PERFORMANCE.

TRAFFIC MANAGEMENT, NOTIFICATION AND APPROVALS NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION SIGNAGE, BARRIERS, FLASHING INDICATORS, AND ADHERING TO MOTI GUIDELINES AS WELL AS THE BC TRAFFIC CONTROL MANUAL. TO ENSURE THE SAFETY OF THE PUBLIC THROUGHOUT THE PROJECT DURATION, IT IS MANDATORY TO IMPLEMENT APPROPRIATE TRAFFIC CONTROL MEASURES FOR ALL CONSTRUCTION ACTIVITIES WITHIN THE TRAVELLED PORTION OF THE ROAD. UNDER NO CIRCUMSTANCES SHOULD ANY ROAD BE CLOSED WITHOUT OBTAINING THE EXPLICIT WRITTEN CONSENT OF BOTH THE DIRECTOR OF ENGINEERING AND OPERATIONS AND MOTI.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED MATERIAL UNSUITABLE FOR REUSE AT A SUITABLE OFF-SITE DISPOSAL AREA, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- THE CONTRACTOR IS TO ENSURE THAT ALL APPROVALS REQUIRED FOR THE NEW WORKS WERE OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL ARRANGE FOR, AND COORDINATE THE WORKS DONE BY:
 - TOWN OF COMOX, CVRD AND
 - THIRD PARTY UTILITIES (BC HYDRO, FORTIS BC, SHAW CABLE, TELUS, OR OTHERS AS REQUIRED).
- RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION OF THESE WORKS AND SERVICES ARE TO BE GIVEN MINIMUM 5 DAYS WRITTEN NOTICE OF THE START OF CONSTRUCTION. THE CONTRACTOR DISTRIBUTED A NOTICE OF CONSTRUCTION LETTER TO ALL AFFECTED RESIDENTS AND BUSINESSES. LETTER IS TO DIRECT INQUIRES TO TOWN OF COMOX. THE FOLLOWING CONSTRUCTION ACTIVITY ON ANY PRIVATE PROPERTY, A WRITTEN RELEASE WAS REQUIRED FROM THE PROPERTY OWNER AT THE DISCRETION OF THE OWNER.
- IN ACCORDANCE TO THE TRAFFIC PLAN, A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN IS TO BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRECONSTRUCTION MEETING AND APPROVED PRIOR TO ISSUE OF NOTICE TO PROCEED.
- APPROVALS FOR REQUIRED TREE CUTTING OR TRIMMING NOT INDICATED IN CONTRACT DRAWINGS ARE TO BE OBTAINED BY THE CONTRACTOR FROM THE OWNER PRIOR TO WORK BEING PERFORMED.
- CONTRACTOR IS TO OBTAIN APPROVED LANE CLOSURE REQUEST FORM FOR ALL WORKS. APPROVED REQUESTS WERE CIRCULATED TO ALL EMERGENCY SERVICES.
- CONTRACTOR IS TO SUBMIT A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURE REQUEST FOR ALL MAJOR ROADS AND ANY LOCAL ROADS WHICH REQUIRED ANY DETOURS.
- ALL TRAFFIC CONTROL IS TO CONFORM TO THE LATEST EDITION OF THE 'BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS'.
- NOTICE OF CONSTRUCTION SIGNS ARE TO BE INSTALLED AT ALL PROJECT LIMITS AND PREFERRED DETOUR ROUTE. NOTIFIED CONTRACT ADMINISTRATOR WITH CONSTRUCTION SCHEDULE AND LOCATIONS.
- ALL EXISTING SIGN LOCATIONS TO BE RECORDED IN THE FIELD PRIOR TO SIGN REMOVAL. ALL SIGNS TO BE RE-INSTALLED AT EXISTING LOCATIONS UNLESS OTHERWISE NOTED.
- NOISE VARIANCE FOR ALL WORK OUTSIDE OF NORMAL APPROVED WORK HOURS WILL REQUIRE PRIOR APPROVAL BY THE OWNER.
- CONTRACTOR IS TO PROVIDE PORTABLE CHANGEABLE MESSAGE SIGNS (CMS) USED TO INFORM HIGHWAY TRAFFIC OF EXISTING AND ANTICIPATED CONDITIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETION OF ALL TAPED TEMPORARY AND PERMANENT PAINT AND THERMOPLASTIC PAVEMENT MARKINGS IN THE PLACE OF THE WORK. THE OWNER DID NOT PROVIDE ROAD MARKING DRAWINGS FOR THE INSTALLATION OF PERMANENT MARKINGS. THE CONTRACTOR WAS THEREFORE REQUIRED TO PERFORM ANY PRE AND POST CONSTRUCTION SURVEY WORK ESSENTIAL FOR THE REINSTATEMENT OF PERMANENT PAVEMENT MARKINGS TO THEIR PRE-CONSTRUCTION LOCATIONS. TEMPORARY PAVEMENT MARKINGS WERE PLACED DAILY. PERMANENT LANE MARKINGS WERE PLACED WITHIN SEVENTY-TWO (72) HOURS OF FINAL PAVING AND PERMANENT THERMOPLASTIC PAVEMENT MARKINGS WERE PLACED WITHIN FIVE (5) DAYS OF FINAL PAVING.
- ALL TEMPORARY MARKINGS ARE TO BE REMOVED IMMEDIATELY FOLLOWING INSTALLATION OF THE PERMANENT MARKINGS.

STORM NOTES:

- NO CHANGES TO BE MADE TO PIPES, MANHOLES, OR ALIGNMENT WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER.
- ALL 1500 STORM DRAINAGE PIPES SHALL BE CONSTRUCTED OF PVC MATERIAL WITH A STANDARD DIMENSION RATIO OF 28 (SDR28). SINGLE CATCH BASIN LEADS TO BE 150mm DIA. AND DOUBLE CATCH BASIN LEADS TO BE 2000 WITH 1500 LEAD FOR DOUBLE CATCH BASIN TO BE WYVED OFF THE 2000 LEAD TO THE SECOND CATCH BASIN.
- THE USE OF INSERTA-TEES/WYES SHALL BE ALLOWED ON CONNECTIONS TO EXISTING MAINS.
- ALL SERVICE CONNECTIONS ON NEW MAINS SHALL BE ACCOMPLISHED WITH WYE BRANCHES.
- ALL COUPLINGS USED IN THE REPAIR, EXTENSION OR INSTALLATION OF SANITARY, STORM AND CATCH BASIN LEADS SHALL BE THOSE THAT UTILIZE A STAINLESS STEEL SHEER BAND. USE OF 'ALL RUBBER' COUPLINGS IS NOT ACCEPTABLE.
- ALL STORM SERVICES ARE TO BE INSTALLED AT A MINIMUM OF 2% GRADE TO BE CONSTRUCTED TO TOWN OF COMOX STANDARDS COMPLETE WITH CONCRETE BOX STEEL LID WHERE INDICATED.
- ALL NEW STORM MAIN SHALL BE VIDEO INSPECTED. VIDEO INSPECTION OF STORM SERVICES ARE NOT REQUIRED.
- ALL CATCH BASIN GRATES ARE TO BE BICYCLE FRIENDLY.
- HORIZONTAL PIPE AND CULVERT DEFLECTION TO BE HALF THE MANUFACTURE'S SPECIFICATION.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE TO CULVERTS AND LAWN BASINS.

HATCHING LEGEND	
	ASPHALT PATHWAY
	GRAVEL PATHWAY
	ASPHALT RESTORATION FOR NEW CURB INSTALLATION
	CONCRETE
	STAMPED CONCRETE
	BOULEVARD - 150mm OF TOPSOIL AND SEED

ENVIRONMENTAL NOTES:

- ALL CATCHBASINS IN PROXIMITY TO TRENCH WORK OR EXPOSED ROAD BASE ARE TO BE FITTED WITH MANUFACTURED INLET CONTROL DEVICES AND OR FILTER SACK TYPE CATCHBASIN CONTROL (OR APPROVED ALTERNATIVE). CONTROL DEVICES WERE MAINTAINED IN A FULLY FUNCTIONAL STATE AT ALL TIMES.
- INLET CONTROL DEVICES (I.E. FILTER SACKS) HAVE A MINIMUM 8" DROP FROM SURFACE OF THE CATCHBASIN.
- UNDER NO CIRCUMSTANCES ARE CATCHBASINS FITTED WITH GEOTEXTILE SHEATHS CUT FROM STOCKPILE ROLLS.
- AVOID EARTH DISTURBING ACTIVITIES DURING SUBSTANTIAL RAIN EVENTS.
- AVOID STOCKPILING SOILS, SANDS AND OTHER ERODIBLE MATERIALS ONSITE. IT WAS PREFERABLE TO 'HOT-LOAD' SPOIL DIRECTLY INTO TRUCKS FOR OFFSITE DISPOSAL. IF TEMPORARY WASTE OR SOIL STOCKPILES WERE NECESSARY, THEY WERE FULLY COVERED WITH POLYETHYLENE SHEETING OR TARPS AND WEIGHTED WITH SANDBAGS.
- TRACKING OF SEDIMENT, SOIL AND/OR ROADBASE FROM WORKSITE TO VEHICLE TRAVEL LANES IS TO BE PREVENTED.
- ROADS ARE TO BE SWEEP CLEAN OF SOIL, LOOSE ROAD BASE, EARTH AND SEDIMENT. MECHANICAL SWEEPING IS PREFERRED TO MANUAL SWEEPING. HOWEVER, FREQUENT HAND SWEEPING IS PREFERABLE TO ONCE DAILY MECHANICAL SWEEPING.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR ENSURING THAT NO SEDIMENT OR SEDIMENT-LADEN WATER IS DISCHARGED FROM THE WORKS INTO THE OWNER'S DRAINAGE SYSTEM AND THE LAZO MARSH WILDLIFE MANAGEMENT AREA. COMPLIANCE WITH ALL LOCAL, PROVINCIAL, AND FEDERAL LAWS AND REGULATIONS IS MANDATORY IN THIS REGARD.
- AN EMERGENCY SPILL KIT IS TO BE KEPT ONSITE AT ALL TIMES THE CONTRACTOR WAS OPERATING. SPILL KITS INCLUDED BOOMS, SPILL PADS, GLOVES, AND CATCHBASIN BARRIERS. A SPILL KIT WITH AT LEAST 125 LITRES ABSORBENCY WAS RECOMMENDED. SANDBAGS AND A SUPPLY OF SAND ARE TO BE KEPT ONSITE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A SPILL RESPONSE PLAN THAT PROVIDES WRITTEN SAFE WORK PROCEDURES IN THE EVENT OF A SPILL.
- THE CONTRACTOR IS TO HAVE ONSITE SODIUM THIOSULPHATE TO TREAT CHLORINATED WATER IN THE EVENT OF A WATER MAIN BREAK.
- THE CONTRACTOR IS TO DISPOSE OF CHLORINATED WATER AT AN APPROVED LOCATION ONLY AFTER APPROPRIATE TREATMENT WITH SODIUM THIOSULPHATE. AT NO TIME IS THE CONTRACTOR TO DISCHARGE WATER CHLORINATED WATER DIRECTLY TO A CATCHBASIN, CREEK, DITCH OR SWALE WITHOUT PRIOR APPROVAL OF SPECIALIST IN WATERMAIN FLUSHING OR AN ENVIRONMENTAL MONITOR.
- THE CONTRACTOR MUST PREVENT THE DISCHARGE OF WASTE OR DELETERIOUS SUBSTANCES TO THE TOWN'S DRAINAGE SYSTEM (INCLUDING DITCHES, CATCHBASINS, SWALES AND STREAMS).
- THE CONTRACTOR MUST NOT CAUSE OR PERMIT THE DISCHARGE INTO THE DRAINAGE SYSTEM, EITHER DIRECTLY OR INDIRECTLY, OF WATER WHICH HAS A PH VALUE OUTSIDE THE RANGE OF 6.5 TO 8.0 AT ANY TIME.
- DUST NUISANCE WILL BE REDUCED BY USE OF WATER SPRAYED ON THE EXPOSED SOURCE OF THE DUST. THE FREQUENCY OF THE SUPPRESSION WILL BE AS DIRECTED BY THE TOWN OF COMOX OR ENGINEER.
- MAINTAIN EFFECTIVE SEDIMENT AND EROSION CONTROL MEASURES UNTIL VEGETATION OF DISTURBED AREA IS COMPLETED.
- DISPOSE OF CONCRETE CUTTINGS AND OTHER WASTE MATERIALS AT AN APPROVED DISPOSAL FACILITY LOCATED AWAY FROM WATER TO PREVENT IT FROM REENTERING THE WATERCOURSE.
- THE OWNER SHALL RETAIN AN ARBORIST THROUGHOUT THE PROJECT'S DURATION TO PROVIDE EXPERT GUIDANCE ON ANY WORK THAT INVOLVES PROXIMITY TO TREES, ENCOMPASSING ALL APPLICABLE JURISDICTIONS. THE CONTRACTOR IS REQUIRED TO COLLABORATE CLOSELY WITH THE OWNER'S DESIGNATED ARBORIST AS NECESSARY.

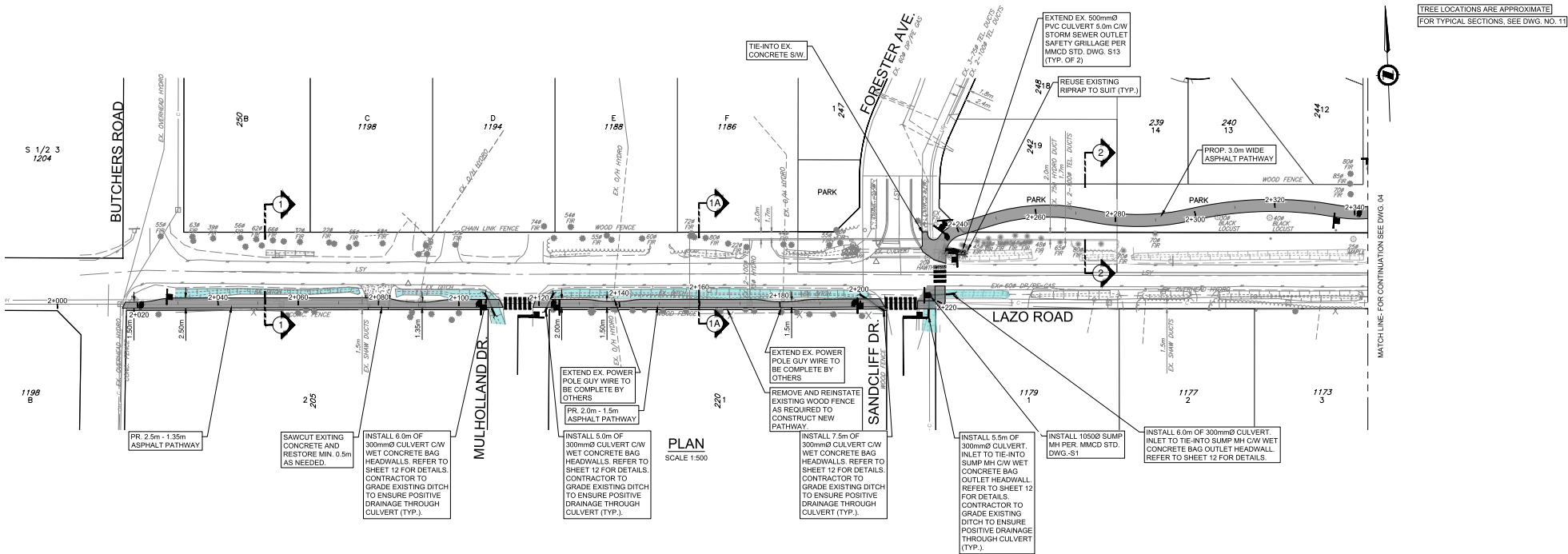
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B	RE-ISSUED FOR PERMIT	231107	NL	IM



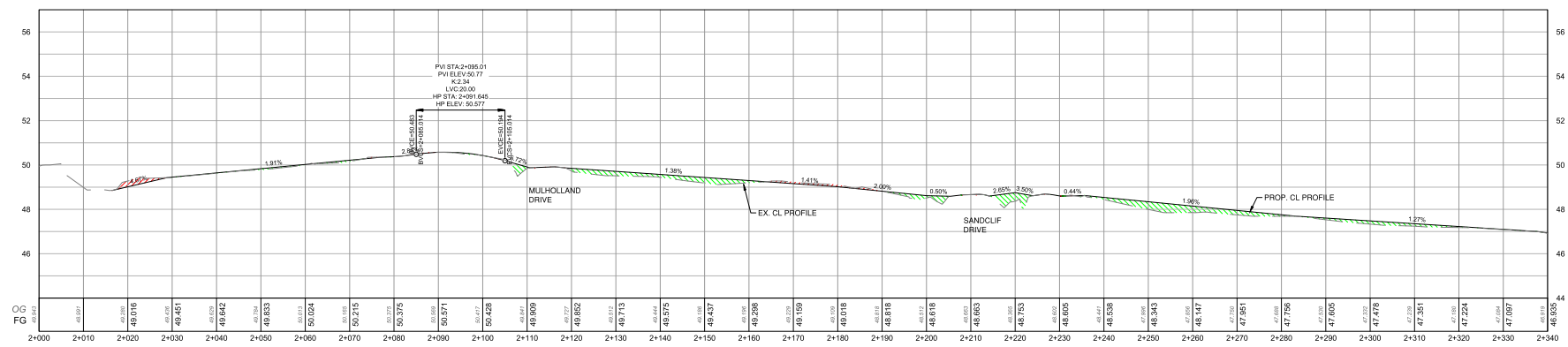
LAZO GREENWAY MULTIUSE PATHWAY



RE-ISSUED FOR PERMIT		DESIGN NO.	33006
SCALE	NLS	CREATION DATE	SEP, 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM
DATE		REV.	02 OF 25



PLAN
SCALE 1:500



PROFILE
SCALE 1:500 HOR. 1:100 VER.

TREE LOCATIONS ARE APPROXIMATE
FOR TYPICAL SECTIONS. SEE DWG. NO. 11

MATCH LINE FOR CONTINUATION SEE DWG. 04



PLT DATE:	November 7, 2023			
REV NO.	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	2023-07-26	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS
LAZO GREENWAY MULTIUSE PATHWAY
STA. 2+000 TO 2+340

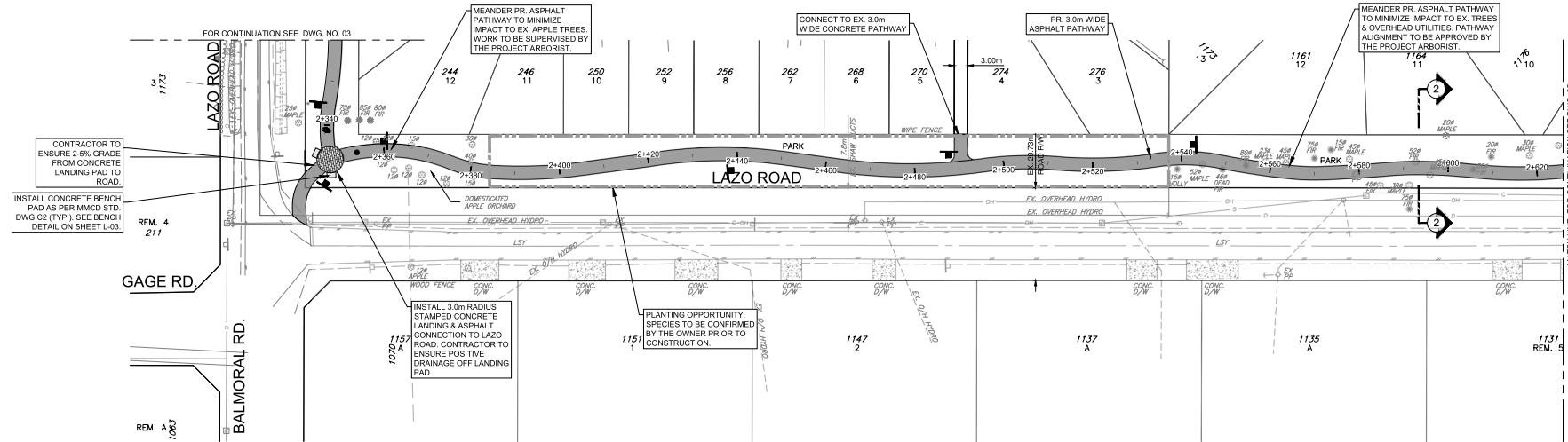


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CHECKED BY	IM	APPROVED BY	IM

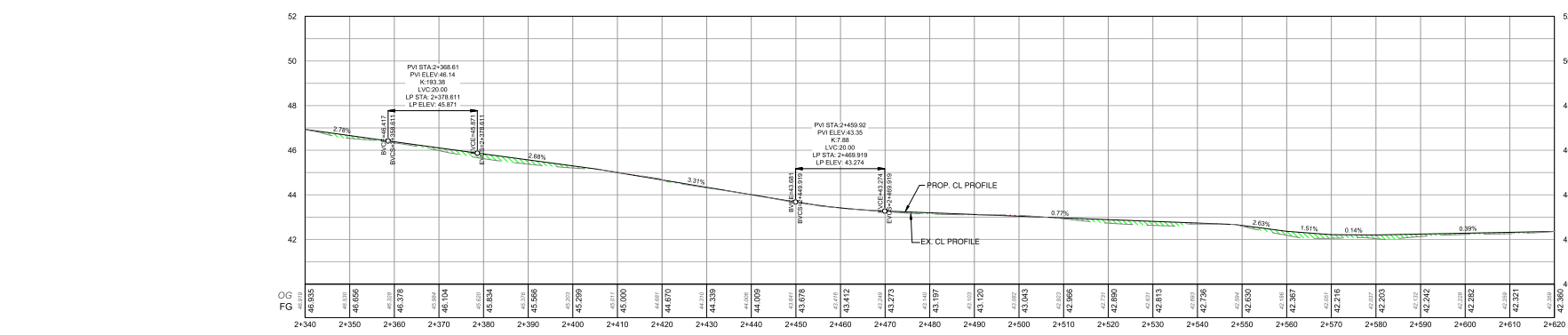
DESIGN NO.	33006	DWG. NO.	03
		OF	25
		REV.	B

DESTROY ALL PRINTS BEARING PREVIOUS NO.

TREE LOCATIONS ARE APPROXIMATE
FOR TYPICAL SECTIONS, SEE DWG. NO. 11



PLAN
SCALE 1:500



PROFILE
SCALE 1:500 HOR. 1:100 VER.



PLT DATE: November 7, 2023

REV. NO.	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	2023-07-26	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS
LAZO GREENWAY MULTIUSE PATHWAY
STA. 2+340 TO 2+620

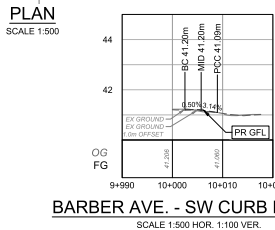
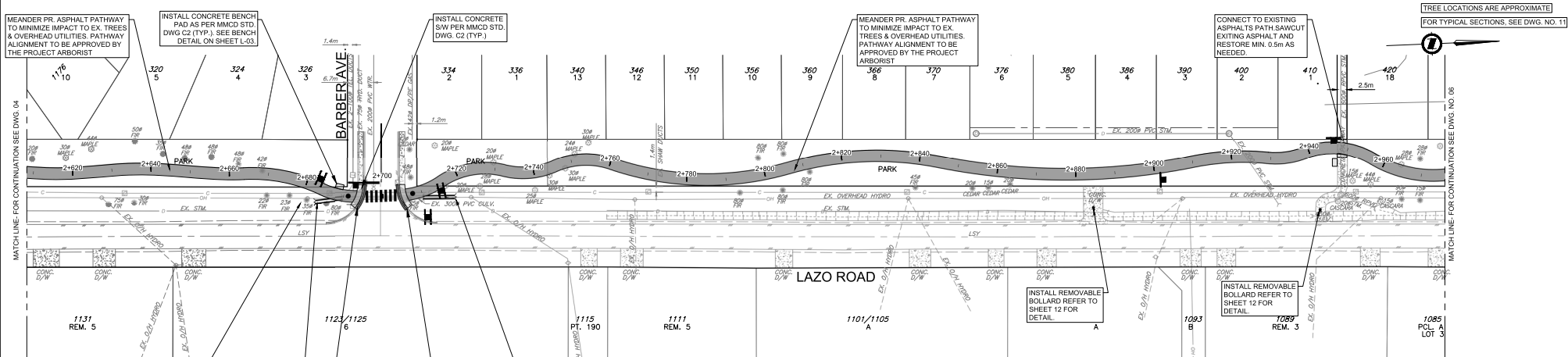


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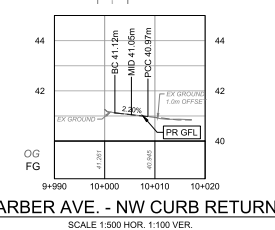
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33006

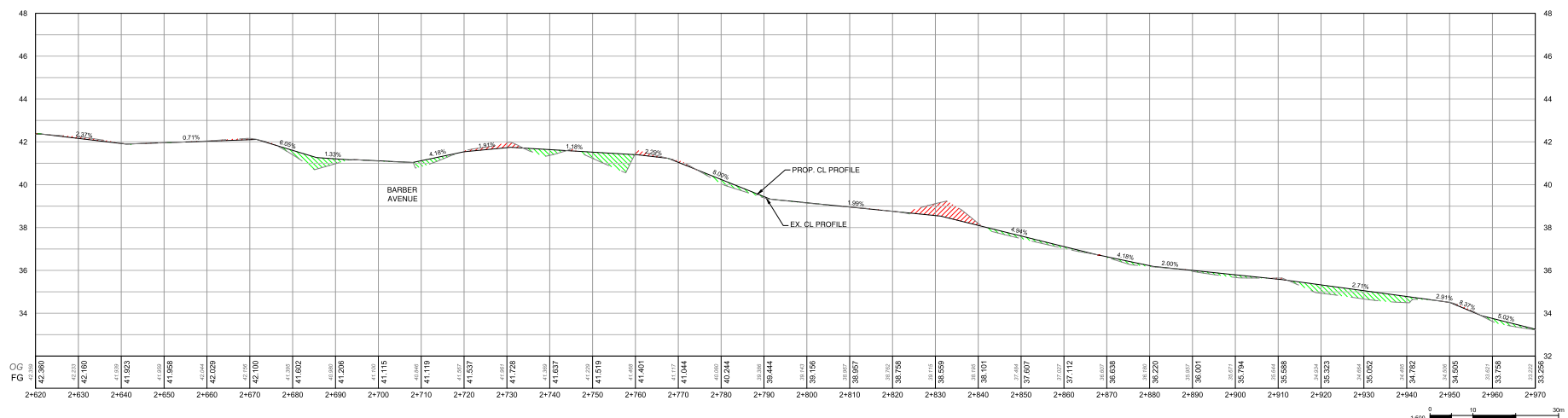
DWG. NO.	04
OF	25
REV.	B



BARBER AVE. - SW CURB RETURN
SCALE 1:500 HOR. 1:100 VER.



BARBER AVE. - NW CURB RETURN
SCALE 1:500 HOR. 1:100 VER.



PROFILE
SCALE 1:500 HOR. 1:100 VER.

PLT DATE: November 7, 2023

REV. NO.	REVISION	DATE	DRAWN	APPROV.
A	ISSUED FOR PERMIT	2023-07-26	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD LAZO GREENWAY MULTIUSE PATHWAY
STA. 2+620 TO 2+970

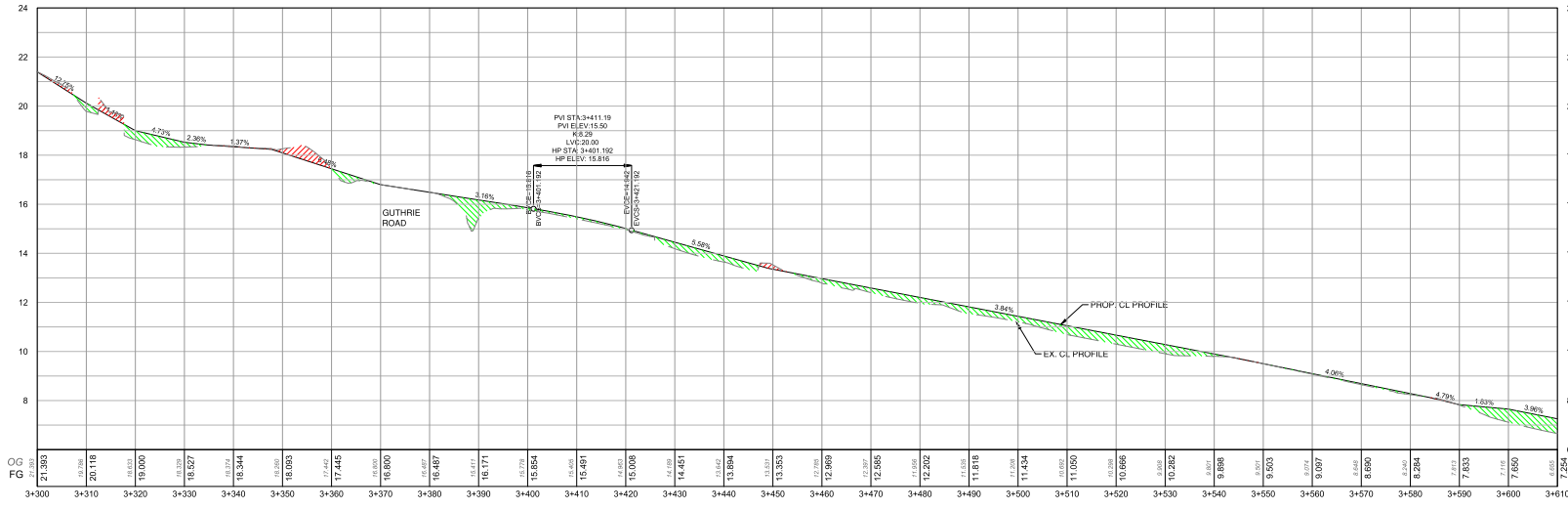
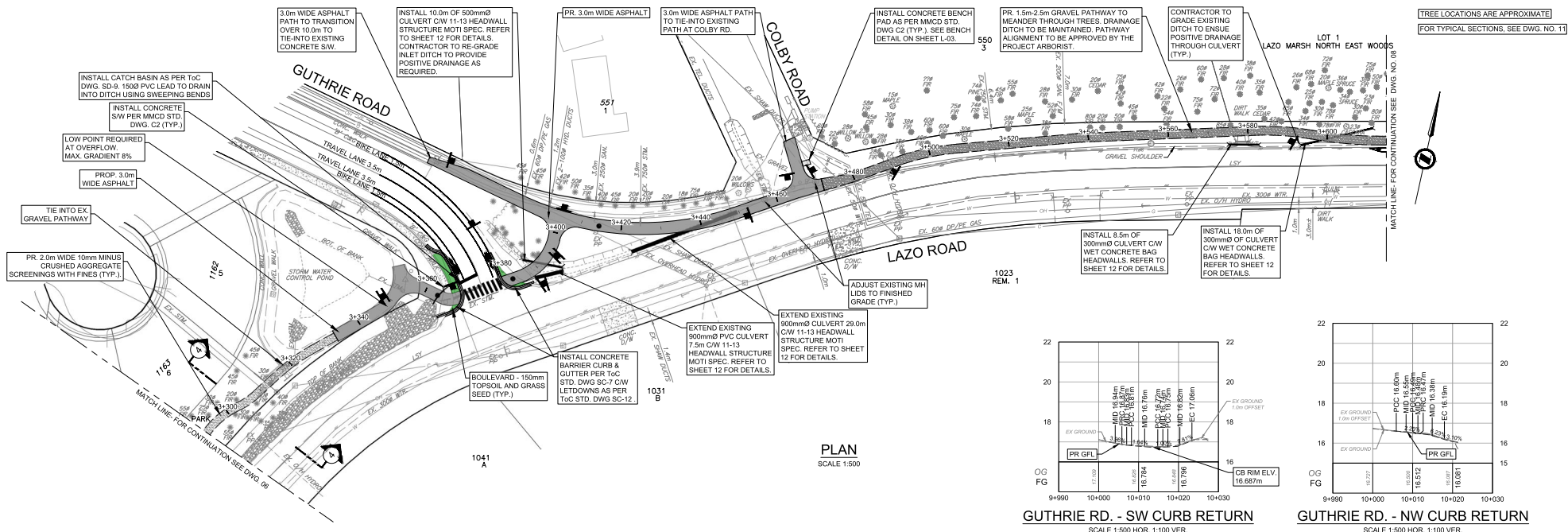


RE-ISSUED FOR PERMIT DESIGN NO. **33006**

SCALE	1:500 HOR. 1:100 VER.	CREATION DATE	SEP. 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

DWG. NO. **05** OF **25**
REV. **B**

DESTROY ALL PRINTS BEARING PREVIOUS NO.



PLT DATE: November 7, 2023

REV. NO.	REVISIONS	DATE	DRAWN	APPROV.
A	50% DESIGN	2023-07-08	NL	IM
B	REVISED 50% DESIGN	23MAR22	NL	IM



ROAD WORKS LAZO GREENWAY MULTIUSE PATHWAY
STA. 2+290 TO 2+620



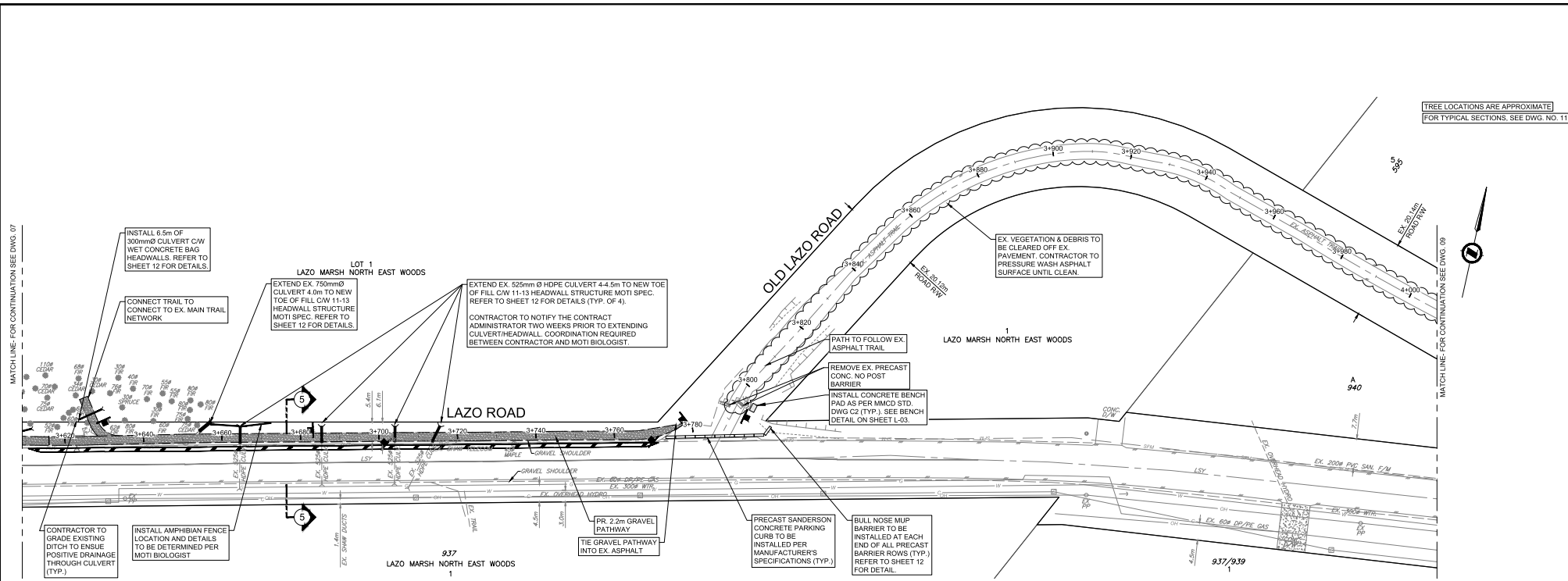
RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	1:500 HOR. 1:100 VER.	CREATION DATE	SEP., 2021
DRAWN BY	NL	DESIGNED BY	BA
CHECKED BY	BA	APPROVED BY	IM

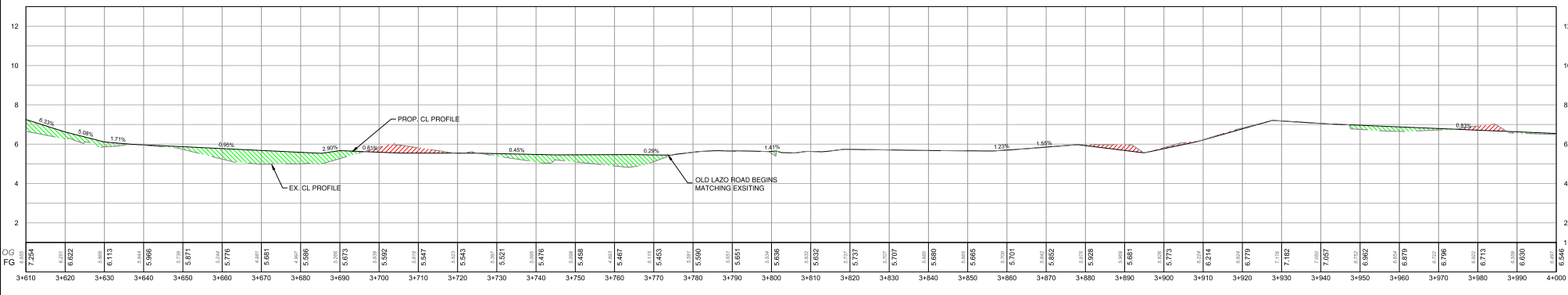
33006

DWG. NO. 07 OF 25
REV. B

DESTROY ALL PRINTS BEARING PREVIOUS NO.



PLAN
SCALE 1:500



PROFILE
SCALE 1:500 HOR. 1:100 VER.

PLANT DATE: November 7, 2023

REV NO.	REVISIONS	DATE	DRAWN	APPROV
A	50% DESIGN	2023-07-26	NL	IM
B	REVISED 50% DESIGN	23MAR22	NL	IM



ROAD WORKS LAZO GREENWAY MULTIUSE PATHWAY
STA. 2+580 TO 3+020



RE-ISSUED FOR PERMIT DESIGN NO.

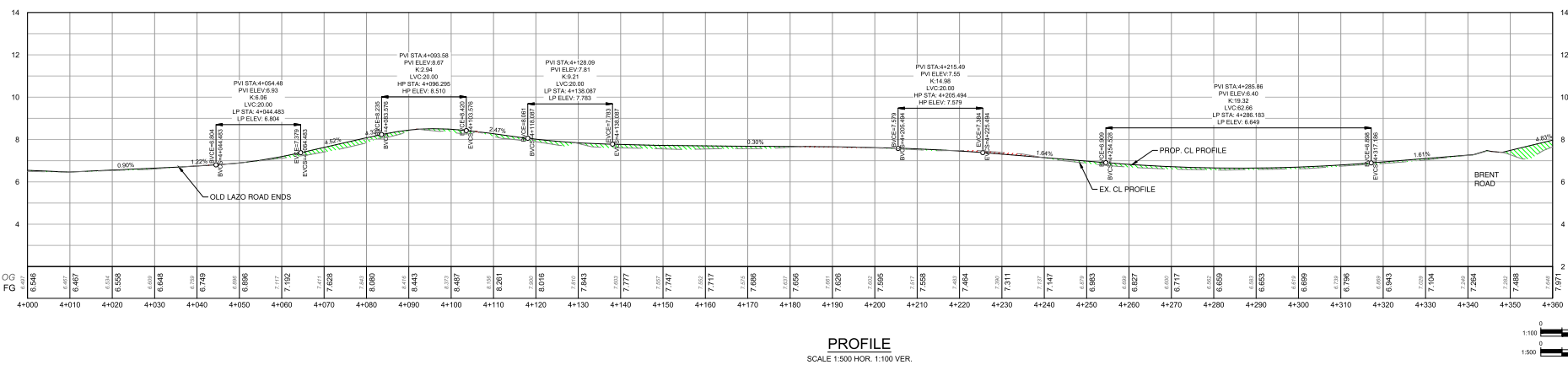
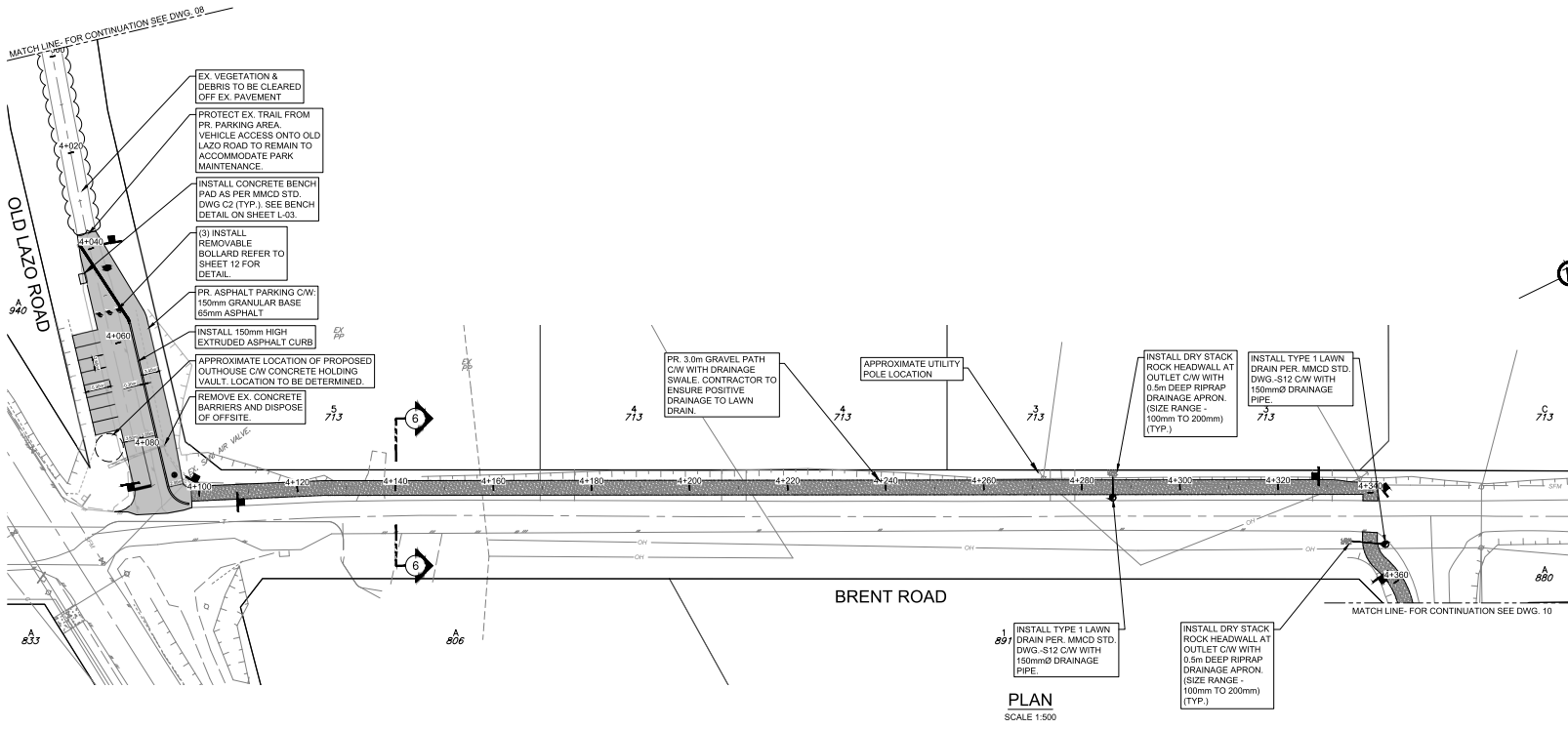
SCALE	1:500 HOR. 1:100 VER.	CREATION DATE	SEP., 2021
DRAWN BY	NL	DESIGN BY	BA
CHECKED BY	BA	APPROVED BY	IM

33006

DWG NO.	08
REV.	25
REV.	B

DESTROY ALL PRINTS BEARING PREVIOUS NO.

TREE LOCATIONS ARE APPROXIMATE
FOR TYPICAL SECTIONS, SEE DWG. NO. 11



PLT DATE: November 7, 2023

REV NO	REVISION	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	2023-07-26	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD LAZO GREENWAY MULTIUSE PATHWAY WORKS
STA. 4+000 TO 4+360



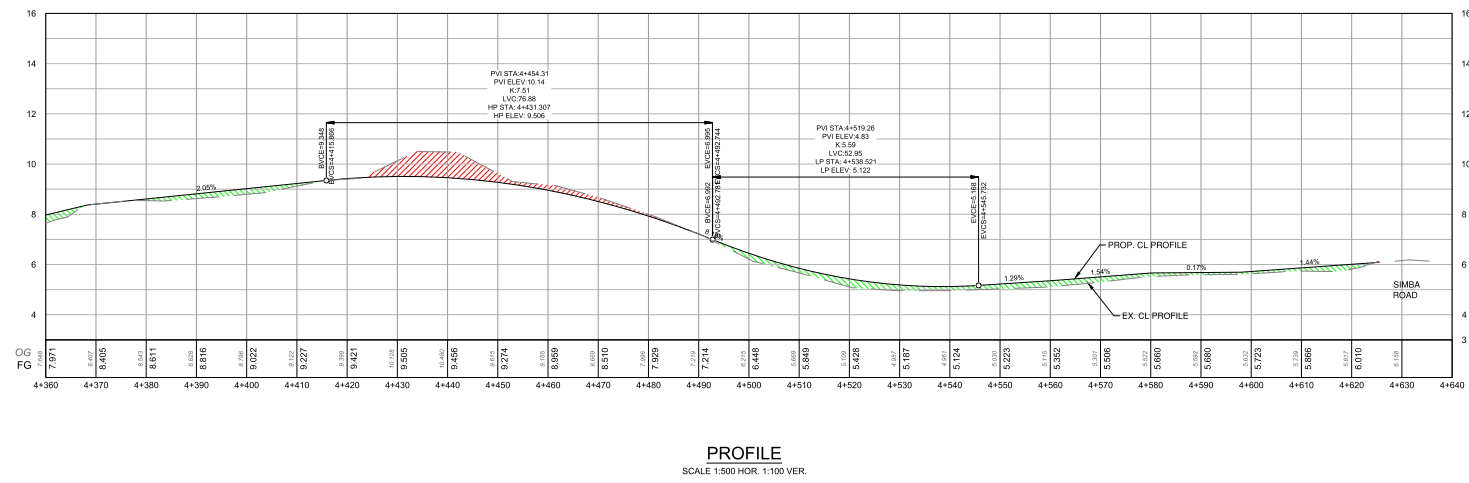
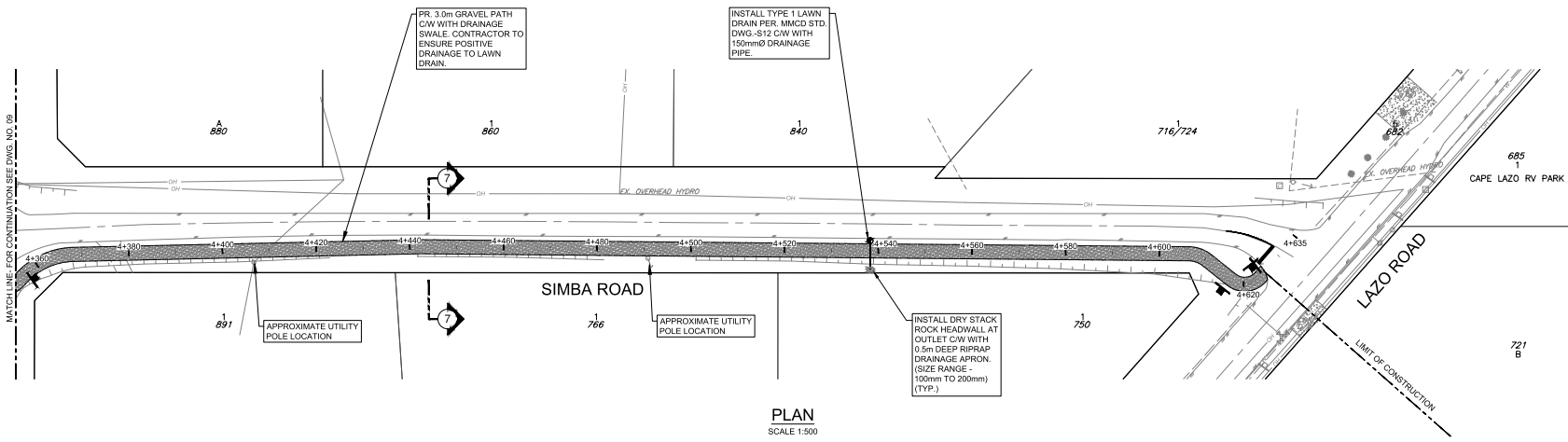
RE-ISSUED FOR PERMIT DESIGN NO. **33006**

SCALE	1:500 HOR. 1:100 VER.	CREATION DATE	SEP, 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

DWG. NO. 09 OF 25 REV. B

DESTROY ALL PRINTS BEARING PREVIOUS NO.

TREE LOCATIONS ARE APPROXIMATE
FOR TYPICAL SECTIONS, SEE DWG. NO. 11



33006

PLOT DATE: November 7, 2023

REV NO.	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	2023-07-28	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD LAZO GREENWAY MULTIUSE PATHWAY WORKS
STA. 4+360 TO 4+640

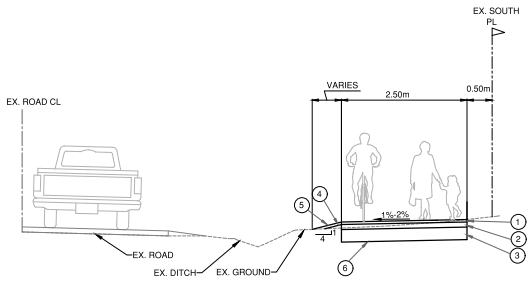


RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	1:500 HOR. 1:100 VER.
DRAWN BY	NL
CHECKED BY	IM

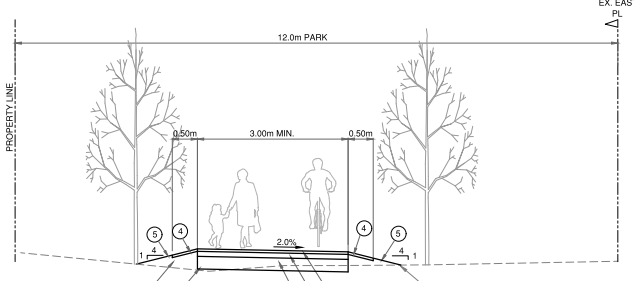
CREATION DATE	SEP, 2021
DESIGN BY	NL
APPROVED BY	IM

DWG. NO. 10 OF 25
REV. B



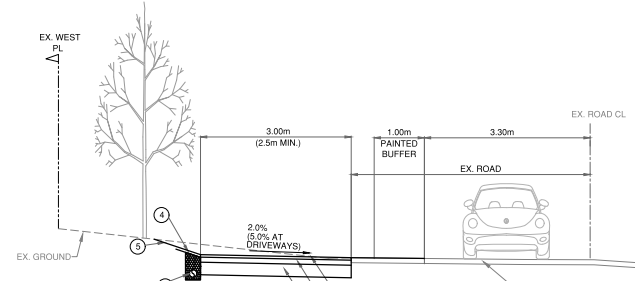
- 1 50mm ASPHALT
- 2 100mm GRANULAR BASE
- 3 250mm GRANULAR SUBBASE
- 4 50mm - 100mm GRANULAR BASE
- 5 HAND SEED SHOULDER EDGE & SLOPE TO EXISTING GRADE
- 6 APPROVED SUBGRADE

1 TYPICAL SECTION- ASPHALT PATHWAY
STA. 2+030 TO 2+080
SCALE: 1:50



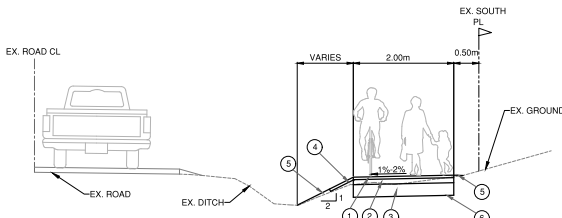
- 1 50mm ASPHALT
- 2 100mm GRANULAR BASE
- 3 250mm GRANULAR SUBBASE
- 4 50mm - 100mm GRANULAR BASE
- 5 HAND SEED SHOULDER EDGE & SLOPE TO EXISTING GRADE
- 6 EMBANKMENT FILL
- 7 APPROVED SUBGRADE

2 TYPICAL SECTION- MULTI-USE PATHWAY
STA. 2+360 TO 3+130
SCALE: 1:50



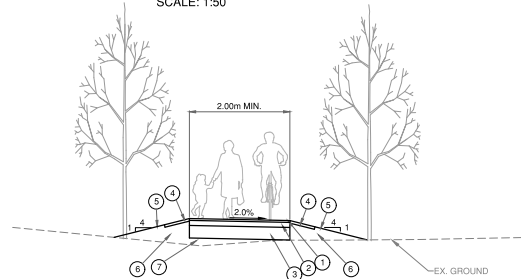
- 1 50mm ASPHALT
- 2 100mm GRANULAR BASE
- 3 250mm GRANULAR SUBBASE
- 4 50mm - 100mm GRANULAR BASE
- 5 HAND SEED SHOULDER EDGE & SLOPE TO EXISTING GRADE
- 6 150mm DIA. PERF. PIPE c/w 19mm CLEAR CRUSH GRAVEL WRAPPED IN FILTER FABRIC

3 TYPICAL SECTION- ROAD WIDENING
SCALE: 1:50



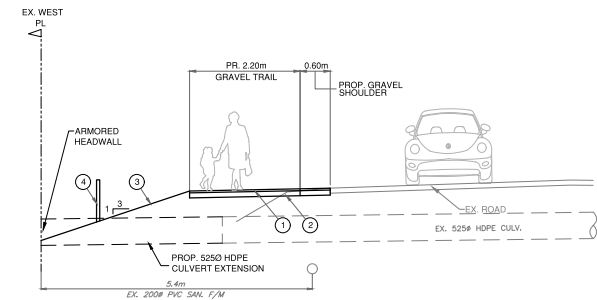
- 1 50mm ASPHALT
- 2 100mm GRANULAR BASE
- 3 250mm GRANULAR SUBBASE
- 4 50mm - 100mm GRANULAR BASE
- 5 HAND SEED SHOULDER EDGE & SLOPE TO EXISTING GRADE
- 6 APPROVED SUBGRADE

1A TYPICAL SECTION- ASPHALT PATHWAY
STA. 2+150 TO 2+170
SCALE: 1:50



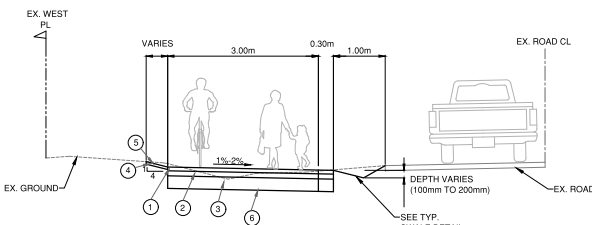
- 1 75mm OF 10mm MINUS OR BETTER CRUSHED AGGREGATE SCREENINGS WITH FINES
- 2 100mm GRANULAR BASE
- 3 250mm GRANULAR SUBBASE
- 4 50mm - 100mm GRANULAR BASE
- 5 HAND SEED SHOULDER EDGE & SLOPE TO EXISTING GRADE
- 6 EMBANKMENT FILL
- 7 APPROVED SUBGRADE

4 TYPICAL SECTION- MULTI-USE PATHWAY
SCALE: 1:50



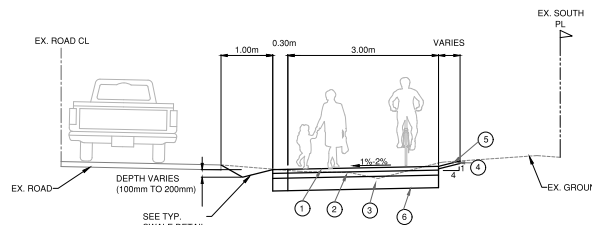
- 1 75mm OF 10mm MINUS OR BETTER CRUSHED AGGREGATE SCREENINGS WITH FINES
- 2 100mm GRANULAR BASE
- 3 HYDROSEED NATIVE GRASS MIX WITH REPLACEMENT PLANTINGS FOR ANY IMPACTS TO EX. NATIVE SHRUBS
- 4 AMPHIBIAN FENCE

5 TYPICAL SECTION- MULTI-USE PATHWAY AT MARSHLANDS
SCALE: 1:50



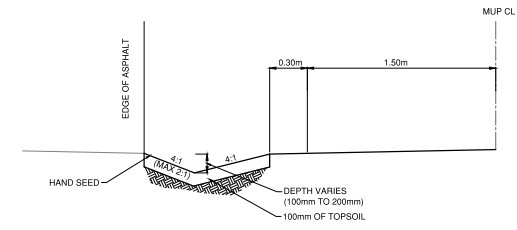
- 1 75mm OF 10mm MINUS OR BETTER CRUSHED AGGREGATE SCREENINGS WITH FINES
- 2 100mm GRANULAR BASE
- 3 250mm GRANULAR SUBBASE
- 4 50mm - 100mm GRANULAR BASE
- 5 HAND SEED SHOULDER EDGE & SLOPE TO EXISTING GRADE
- 6 APPROVED SUBGRADE

6 TYPICAL SECTION- GRAVEL PATHWAY W/ SWALE
STA. 4+100 TO 4+340
SCALE: 1:50



- 1 75mm OF 10mm MINUS OR BETTER CRUSHED AGGREGATE SCREENINGS WITH FINES
- 2 100mm GRANULAR BASE
- 3 250mm GRANULAR SUBBASE
- 4 GRAVEL
- 5 HAND SEED SHOULDER EDGE & SLOPE TO EXISTING GRADE
- 6 APPROVED SUBGRADE

7 TYPICAL SECTION- GRAVEL PATHWAY W/ SWALE
STA. 4+350 TO 4+600
SCALE: 1:50



NOTES:
1. CONTRACTOR TO ENSURE POSITIVE DRAINAGE TO CULVERT/LAWN BASIN.

TYPICAL SWALE DETAIL
SCALE: 1:20



PLOT DATE: November 7, 2023

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	ISSUED FOR PERMIT	2023-07-26	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS LAZO GREENWAY MULTIUSE PATHWAY TYPICAL CROSS SECTIONS



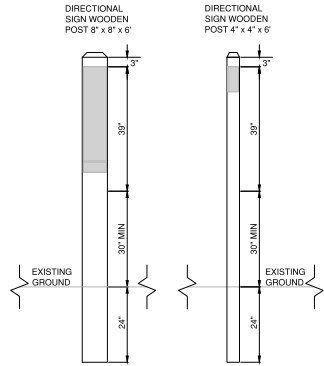
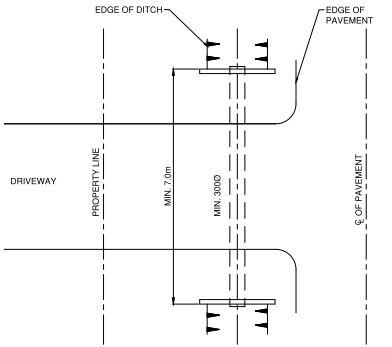
RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	AS NOTED	CREATION DATE	SEP 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

33006

DWG NO. 11 OF 25 REV. B

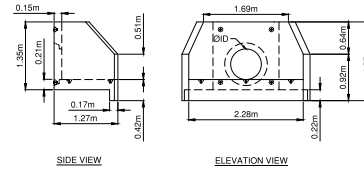
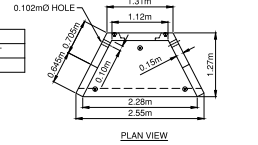
DESTROY ALL PRINTS BEARING PREVIOUS NO.



- NOTES:**
1. SIGN POSTS ARE INSTALLED 24" BELOW GROUND.
 2. DO NOT MOUNT SIGNS BELOW 30".
 3. SIGN POSTS ARE INSTALLED 24" BELOW GROUND.
 4. 4"x4" POSTS HAVE SCREWS ON THE TOP AND BOTTOM AT THE CENTER.
 5. 8"x8" SIGNS HAVE A SCREW ON EACH CORNER, IF SIGN IS LONG PLACE SCREW IN THE MIDDLE.

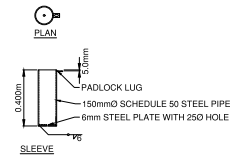
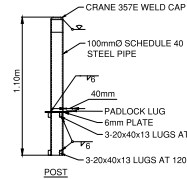
CVRD WOOD POST DETAIL
N.T.S.

PARTLIST			
ITEM	QTY	PART NUMBER	WEIGHT
1	1	Headwall	2.770kg.



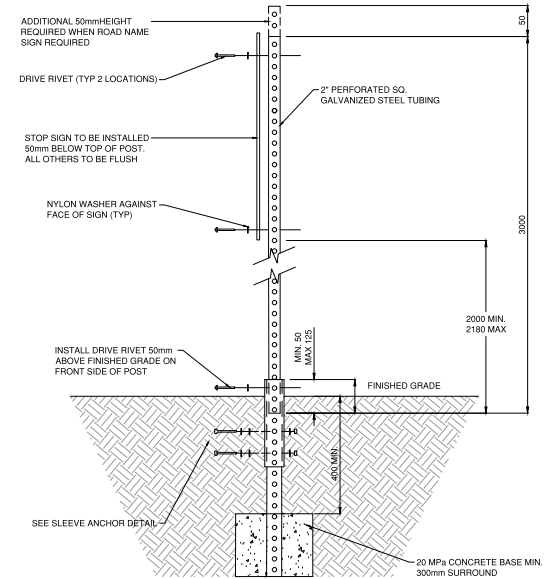
- Notes:**
1. 11-13 Headwall is built as shown.
 2. Unit supplied with tough core for inlet/outlet as shown.
 3. Suggested core size to be maximum of 915mm diameter.
 4. Structure supplied with embedded threaded inserts for grills and handrails.
 5. Ball-on inlet/outlet grills and handrails are available upon request.
 6. Unit supplied with lifting inserts as required.
 7. Minimum rebar yield strength: 414 MPa.
 8. Minimum concrete strength: 30 MPa.

11-13 HEADWALL STRUCTURE MOTI
SPECIFICATION DETAIL
N.T.S.

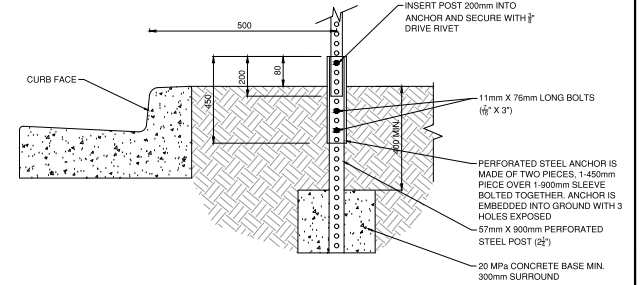


- NOTES:**
1. FOR USE ON MULTI-USE PATHWAYS WHEN NECESSARY TO PREVENT VEHICLE
 2. ALL STEEL TO BE BLACK POWDER COATED TO ASTM D7803. ACCESS.
 3. PADLOCK TO BE INSTALLED IN THE DIRECTION OF THE TRAIL AND NOT ON THE SIDE BLOCKING THE THROUGH-ZONE.

REMOVABLE BOLLARD POST
N.T.S.



PERFORATED SIGN POST DETAIL

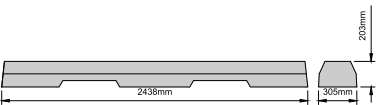


PERFORATED STEEL SIGN AND CONCRETE BASE DETAIL
N.T.S.

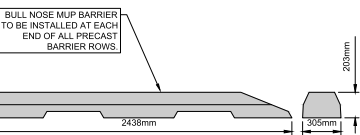
NOTES:

1. SPIGOT END OF CULVERT TO FACE DOWNSTREAM.
2. CULVERT DIAMETER AS SPECIFIED. MIN. 300mm.
3. CONCRETE USED TO BE 21 MPa AT 28 DAYS.
4. REINFORCING BARS TO HAVE MINIMUM 50mm COVER ON ALL SIDES AND ENDS.
5. MAXIMUM HEADWALL HEIGHT 1.2m
6. FILL BETWEEN HEADWALLS TO BE 100mm GRAVEL EXCEPT TOP 100mm WHICH SHALL BE 20mm CRUSH GRVEL.

WET CONCRETE BAG HEADWALL
N.T.S.



NON-BULL NOSE MUP BARRIER DETAIL
N.T.S.



BULL NOSE MUP BARRIER DETAIL
N.T.S.

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	2023-07-26	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS LAZO GREENWAY MULTIUSE PATHWAY DETAILS

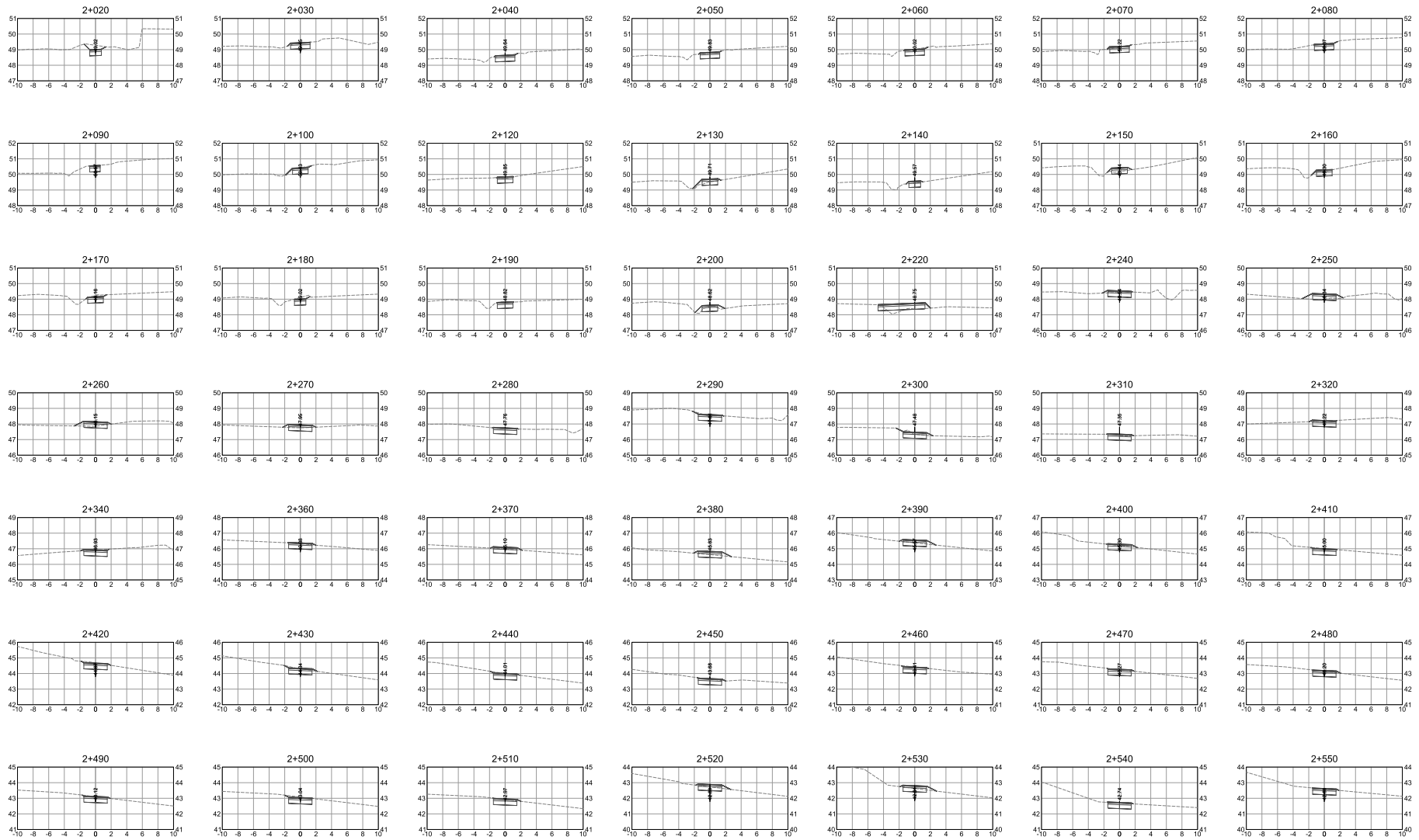


RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	1:50 HOR & VER.	CREATION DATE	SEP 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

33006

DWG NO. 12 OF 25 REV B



33006

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	23/08/17	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS

CROSS SECTIONS
2+020 TO 2+550



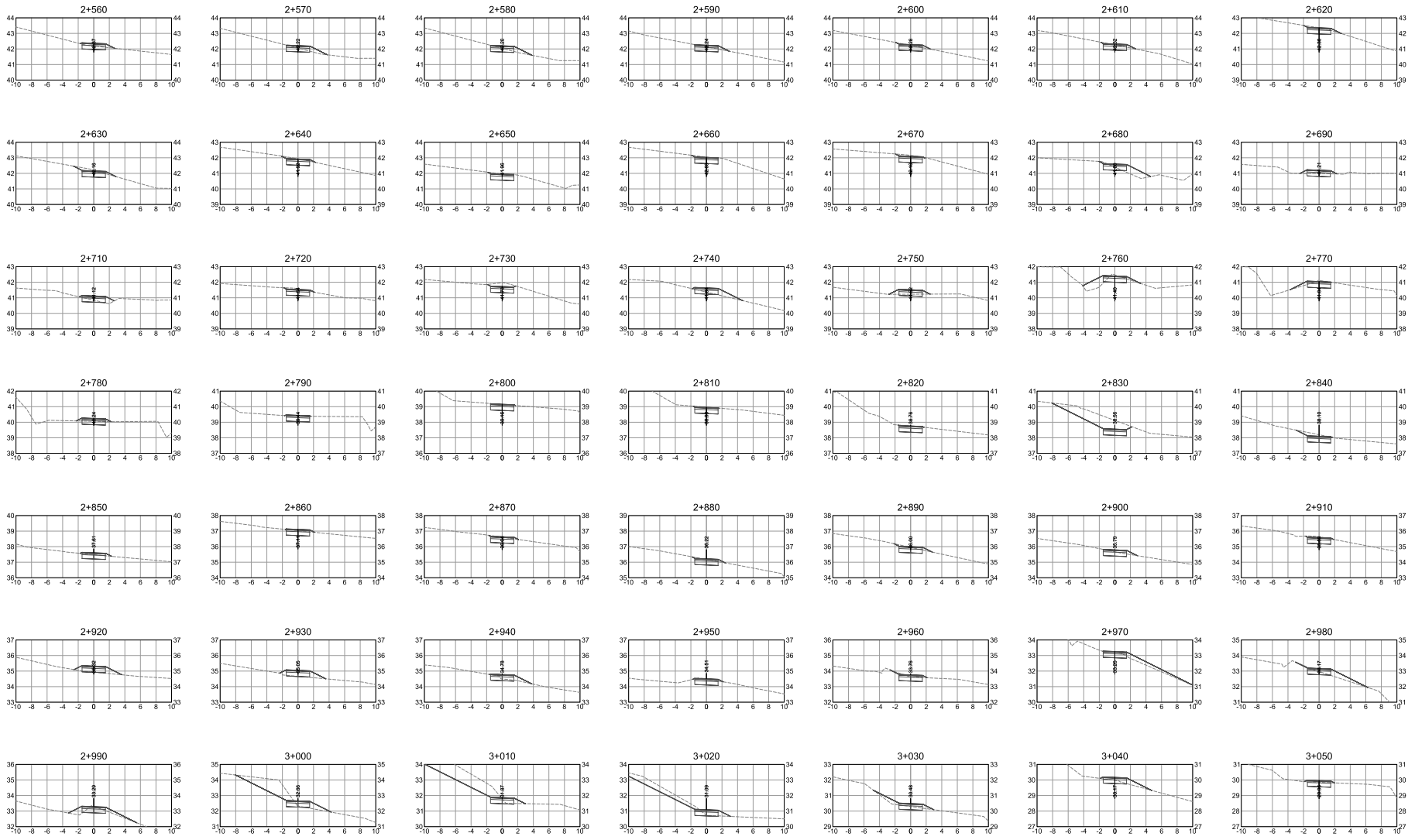
RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	1:250	CREATION DATE	SEP.2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

DWG NO.
13
OF
25
REV.
B

DESTROY ALL PRINTS BEARING PREVIOUS NO.

File: C:\Projects\33006\33006_0300_Cross_Sect\33006_Cross_Sect\33006_Cross_Sect.dwg



PLOT DATE: November 2, 2023

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	23/09/17	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS

CROSS SECTIONS
2+560 TO 3+050



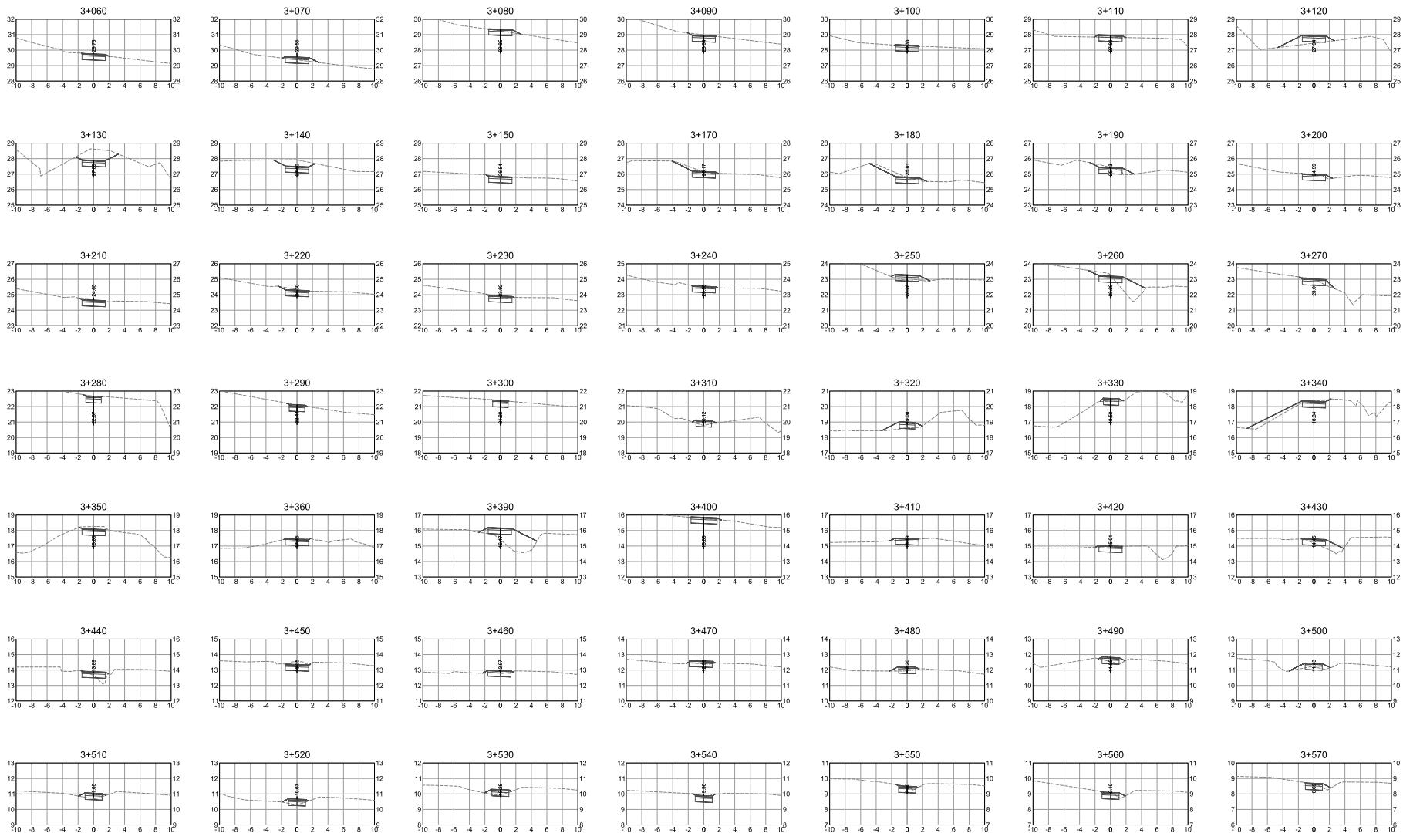
RE-ISSUED FOR PERMIT DESIGN NO.

33006

SCALE	1:250	CREATION DATE	SEP, 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

DWG. NO. 14 OF 25 REV. B

DESTROY ALL PRINTS BEARING PREVIOUS NO.



33006

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	23/08/17	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS

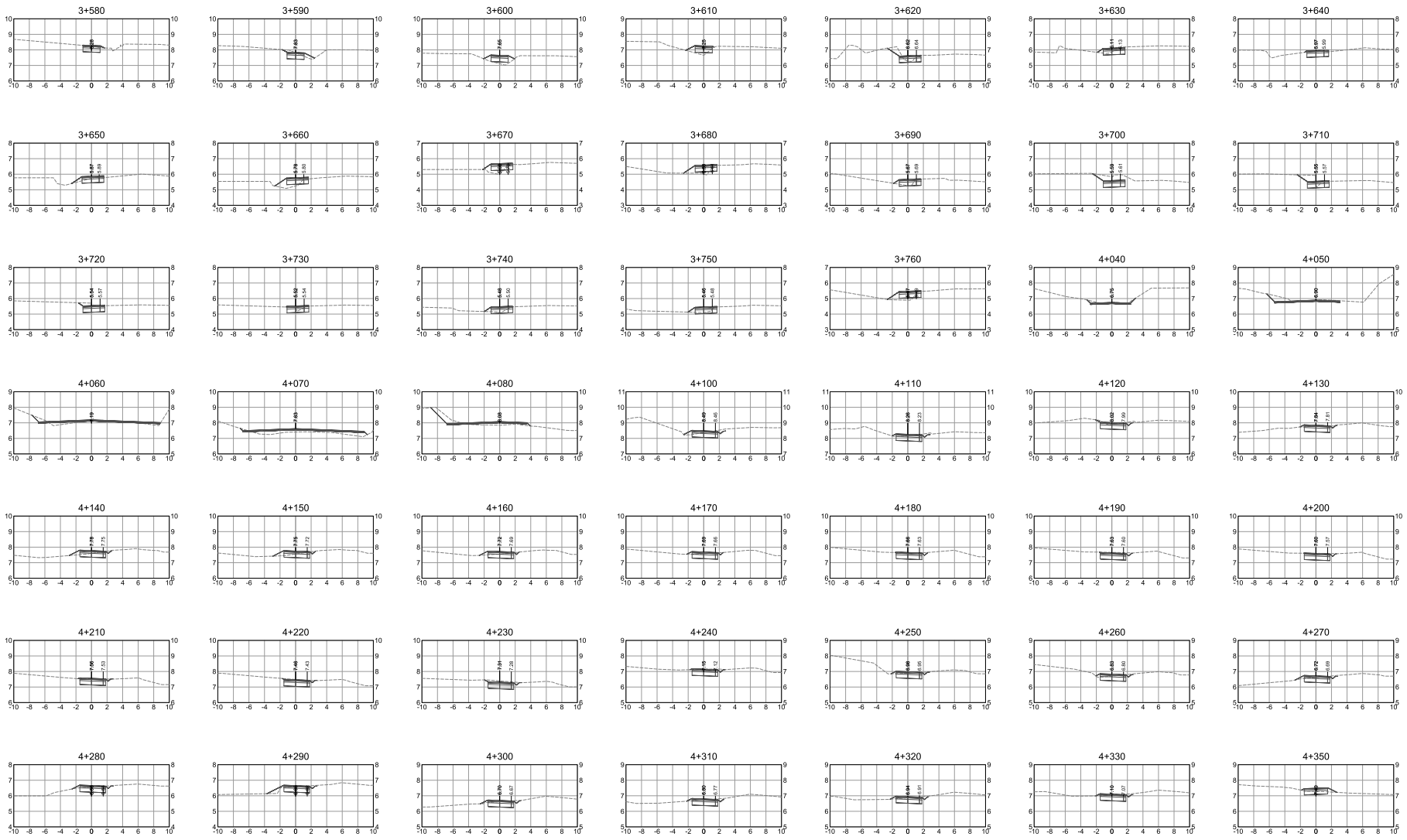
CROSS SECTIONS
3+060 TO 3+570



RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	1:250	CREATION DATE	SEP, 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

DWG NO.
15
OF
25
REV. B



Plot Date: November 2, 2023

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	23/09/17	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS

CROSS SECTIONS
3+580 TO 4+350



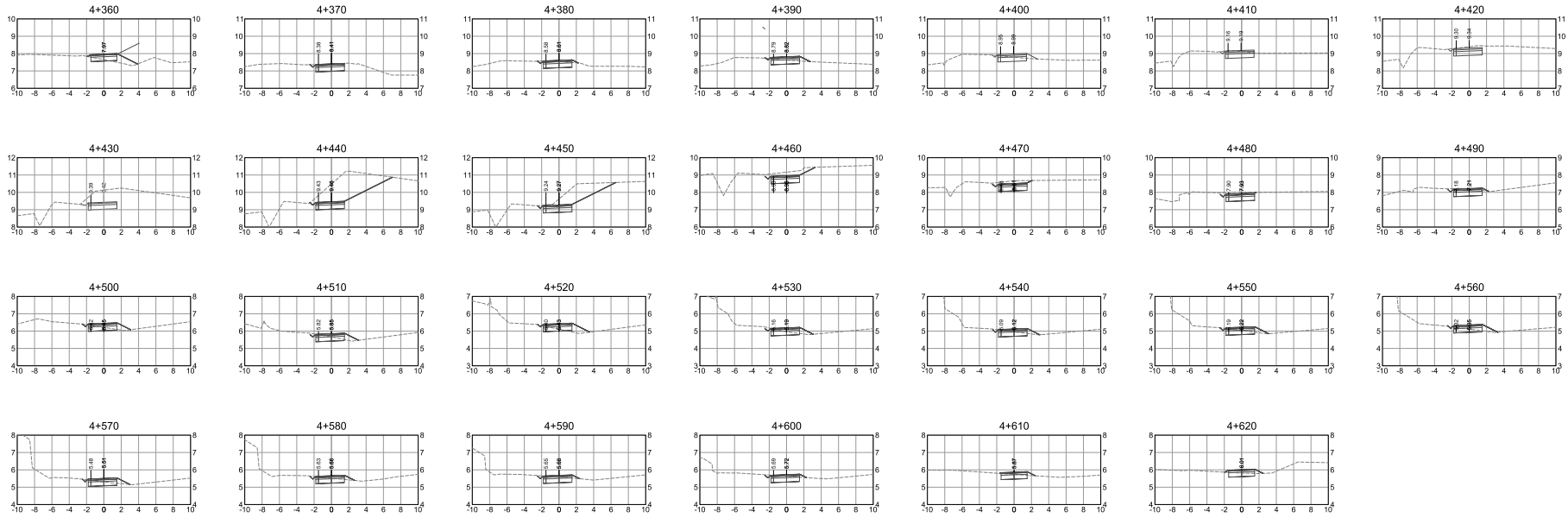
RE-ISSUED FOR PERMIT DESIGN NO.

33006

SCALE	1:250	CREATION DATE	SEP, 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

DWG. NO. 16 OF 25 REV. B

DESTROY ALL PRINTS BEARING PREVIOUS NO.



33006

PLOT DATE: November 2, 2023

REV NO.	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	23/09/17	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



ROAD WORKS

CROSS SECTIONS
4+360 TO 4+620



RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	CREATION DATE	DWG. NO.
1:250	SEP.2021	17
DRAWN BY: NL	DESIGN BY: NL	OF: 25
CHECKED BY: IM	APPROVED BY: IM	REV: B

DESTROY ALL PRINTS BEARING PREVIOUS NO.

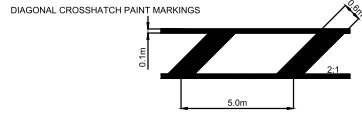
File: C:\pwworkspace\33006\33006_Cross_Section\33006_Cross_Section.dwg, User: jml, Date: 23/11/2023 10:00:00 AM, Plot Date: 23/11/2023 10:00:00 AM, Plot Scale: 1:250, Plot Orientation: Landscape, Plot Device: HP DesignJet 5000 Series

NOTES:

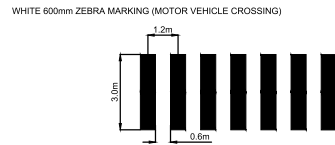
1. ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
2. ALL SIGNS TO BE ALUMINUM ALLOY 5052-H38 GRADE, CONFORMING TO THE REQUIREMENTS OF ASTM B209M. SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND PLATE.
3. ALL PAVEMENT MARKINGS ARE NOT TO SCALE.
4. REFER TO SHEET 12 FOR SIGN AND CONCRETE BASE DETAIL.

LEGEND:

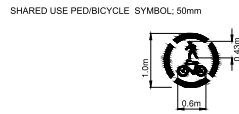
PAVEMENT DETAILS



DIAGONAL CROSSHATCH PAINT MARKINGS



WHITE 600mm ZEBRA MARKING (MOTOR VEHICLE CROSSING)



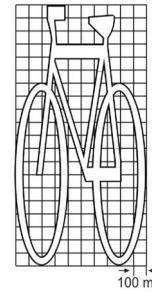
SHARED USE PED/BICYCLE SYMBOL: 50mm

WHITE SOLID LINE: 100mm

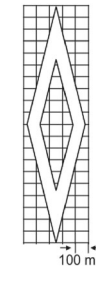
WHITE VEHICLE STOP BAR: 600mm

YELLOW SOLID LINE: 100mm

ELONGATED BICYCLE SYMBOL



DIAMOND SYMBOL



SIGNAGE DETAILS

B-R-101-TB
600mm x 300mm



B-R-101-2
600mm x 600mm



B-R-102
300mm x 300mm



B-R-102-Ta
300mm x 250mm



P-001
300mm x 300mm



P-058
300mm x 300mm



R-001-U
600mm x 600mm



RB-37R/L
TWO WAYS
(CUSTOM)
600mm x 750mm



RB-91
600mm x 750mm



RB-92
600mm x 750mm



R-115-1R/L
600mm x 750mm



W-054-R
300mm x 900mm



PLOT DATE: November 7, 2023

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	2023/07/26	EM	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



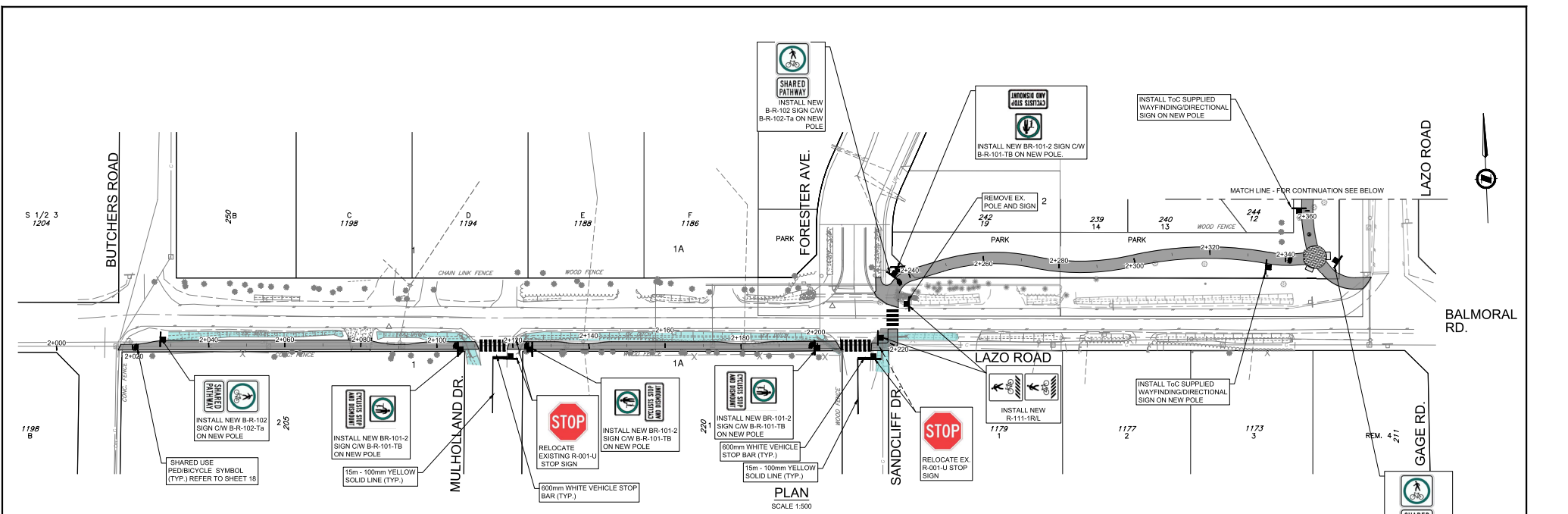
LEGEND AND DETAILS
LEGEND AND DETAILS



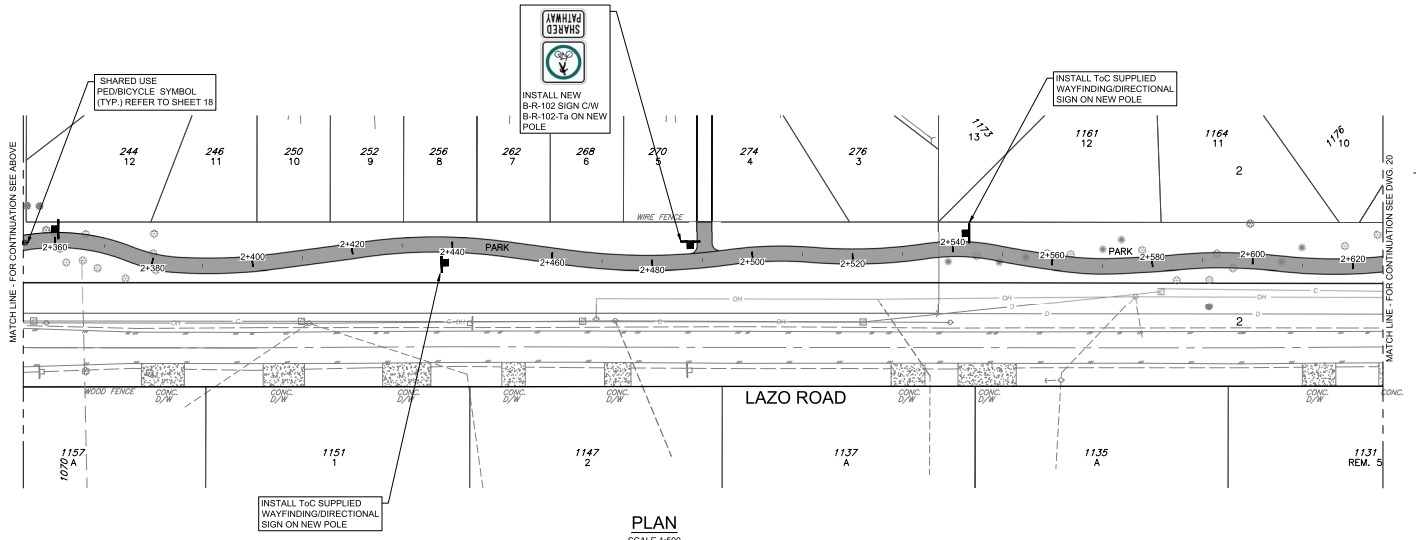
RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	N.T.S	CREATION DATE	SEP, 2021	DWG. NO.	18
DRAWN BY	NL	DESIGN BY	NL	OF	25
CHECKED BY	IM	APPROVED BY	IM	REV.	B

33006



PLAN
SCALE 1:500



PLAN
SCALE 1:500

REV NO	REVISIONS	DATE	DRAWN	APPROV
B	ISSUED FOR PERMIT	2023/07/26	EM	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM

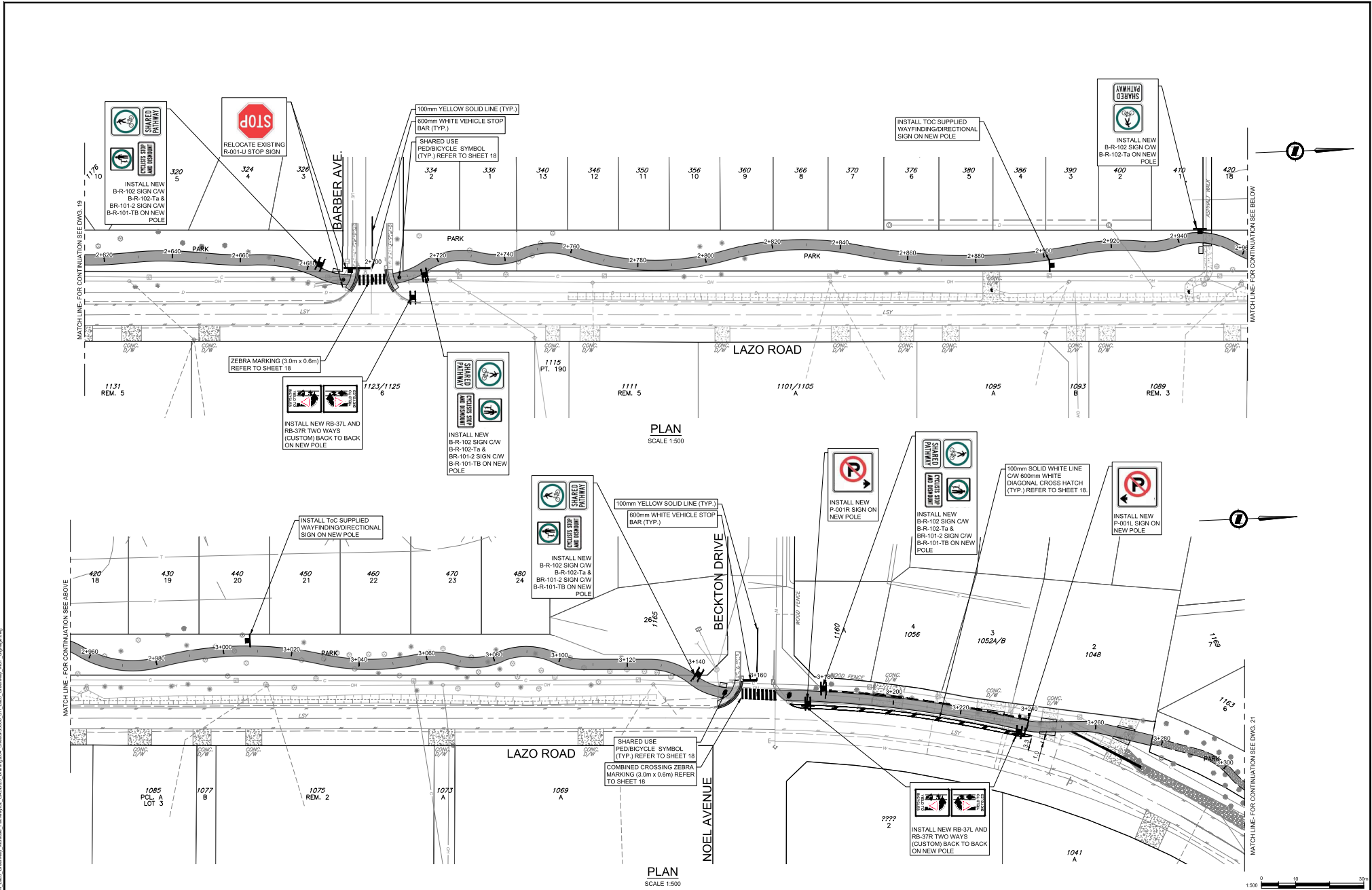


PAVEMENT MARKINGS AND SIGNAGE
STA 2+000 TO STA 2+620



RE-ISSUED FOR PERMIT		DESIGN NO.	33006
SCALE	1:500 HOR. 1:100 VER.	CREATION DATE	SEP. 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM
			DWG. NO. 19 OF 25 REV. B

DESTROY ALL PRINTS BEARING PREVIOUS NO.



PLOT DATE: November 7, 2023

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	2023-07-26	EH	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



PAVEMENT MARKINGS AND SIGNAGE
STA 2+620 TO STA 3+300

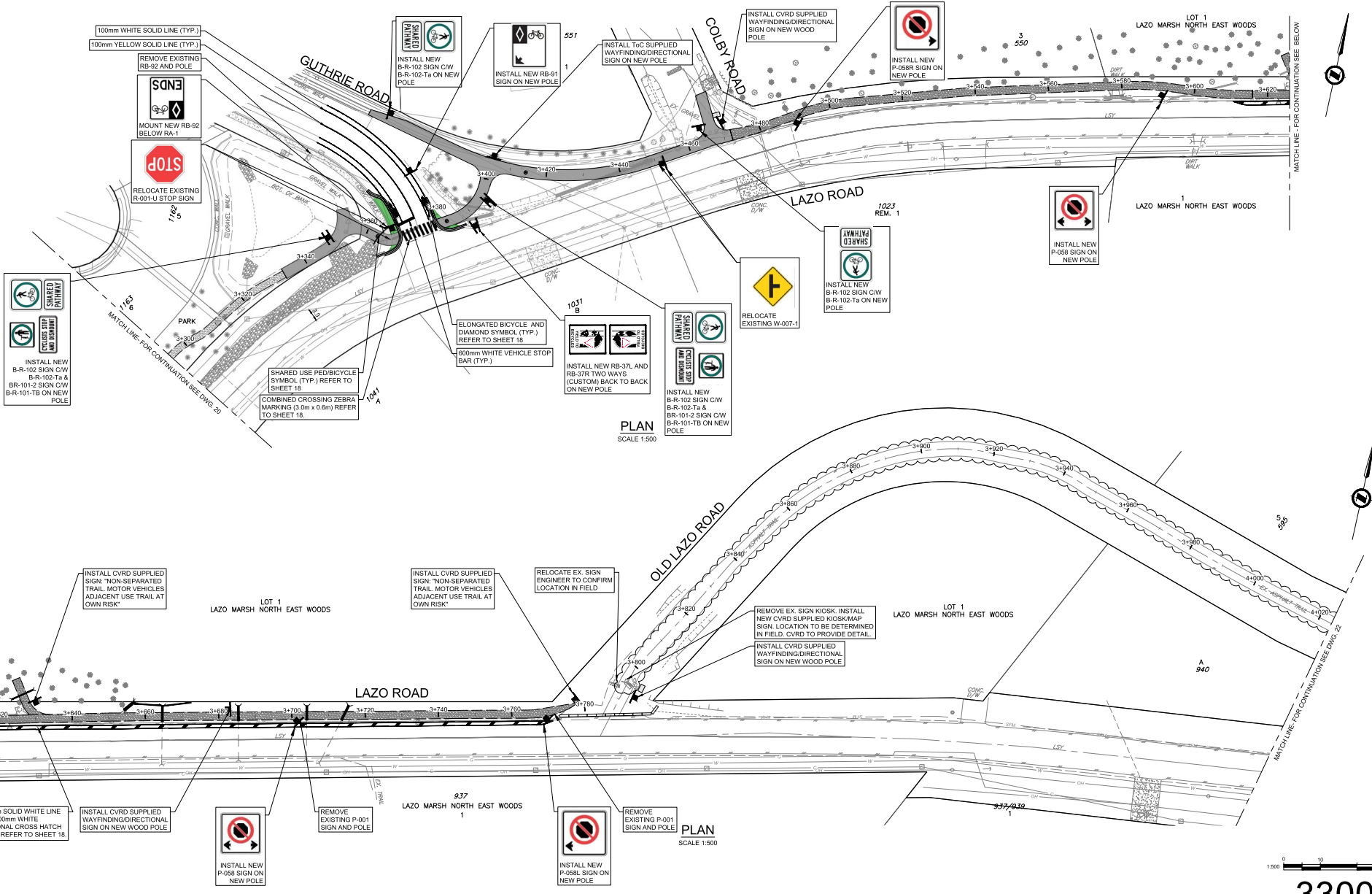


RE-ISSUED FOR PERMIT DESIGN NO.

SCALE	1:500 HOR. 1:100 VER.	CREATION DATE	SEP.2021	DWG. NO.	20
DRAWN BY	NL	DESIGN BY	NL	OF	25
CHECKED BY	IM	APPROVED BY	IM	REV.	B

33006

DESTROY ALL PRINTS BEARING PREVIOUS NO.



PLAN
SCALE 1:500

PLAN
SCALE 1:500

PLOT DATE: November 7, 2023

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	03/23/23	EM	IM
B	RE-ISSUED FOR PERMIT	23/11/23	NL	IM



PAVEMENT MARKINGS AND SIGNAGE
STA 3+300 TO STA 4+020



RE-ISSUED FOR PERMIT DESIGN NO.

33006

SCALE	1:500 H. 1:100 V.	CREATION DATE	SEP 2021	DWG. NO.	21
DRAWN BY	NL	DESIGN BY	NL	OF	25
CHECKED BY	IM	APPROVED BY	IM	REV.	B

DESTROY ALL PRINTS BEARING PREVIOUS NO.

MATCH LINE - FOR CONTINUATION SEE DWG. 21

OLD LAZO ROAD

4+040
4+060
4+080

INSTALL NEW CVRD SUPPLIED KIOSK/MAP SIGN. LOCATION TO BE DETERMINED IN FIELD. CVRD TO PROVIDE DETAIL.

SHARED USE PED/BICYCLE SYMBOL (TYP.) REFER TO SHEET 18

100mm WHITE SOLID LINE (TYP.)

EXTRUDED ASPHALT CURB TO BE PAINTED WHITE

100mm YELLOW SOLID LINE (TYP.)

800mm WHITE VEHICLE STOP BAR (TYP.)

INSTALL CVRD SUPPLIED WAYFINDING/DIRECTIONAL SIGN ON NEW WOOD POLE

STOP
INSTALL NEW R-001-U ON NEW POLE

SHARED PATHWAY
INSTALL NEW B-R-102 SIGN CW B-R-102-Ta ON NEW POLE

SHARED PATHWAY
INSTALL NEW B-R-102 SIGN CW B-R-102-Ta ON NEW POLE

INSTALL CVRD SUPPLIED WAYFINDING/DIRECTIONAL SIGN ON NEW WOOD POLE

BRENT ROAD

PLAN
SCALE 1:500

MATCH LINE - FOR CONTINUATION SEE ABOVE

A 880

880

840

4+380
4+400
4+420
4+440
4+460
4+480
4+500
4+520
4+540
4+560
4+580
4+600

SIMBA ROAD

766

SHARED PATHWAY
INSTALL NEW B-R-102 SIGN CW B-R-102-Ta ON NEW POLE

STOP
RELOCATE EXISTING R-001-U STOP SIGN

716/724

CAPE LAZO RV PARK

100mm YELLOW SOLID LINE (TYP.)
800mm WHITE VEHICLE STOP BAR (TYP.)

INSTALL CVRD SUPPLIED WAYFINDING/DIRECTIONAL SIGN ON NEW WOOD POLE

750

721 B

LAZO ROAD
LIMIT OF CONSTRUCTION

PLAN
SCALE 1:500

1:500 0 10 30m

PLOT DATE: November 7, 2023

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	ISSUED FOR PERMIT	03/23/2023	EM	IM
B	RE-ISSUED FOR PERMIT	23/11/07	NL	IM



Town of Comox

ROAD WORKS

PAVEMENT MARKINGS AND SIGNAGE
STA 4+020 TO STA 4+635

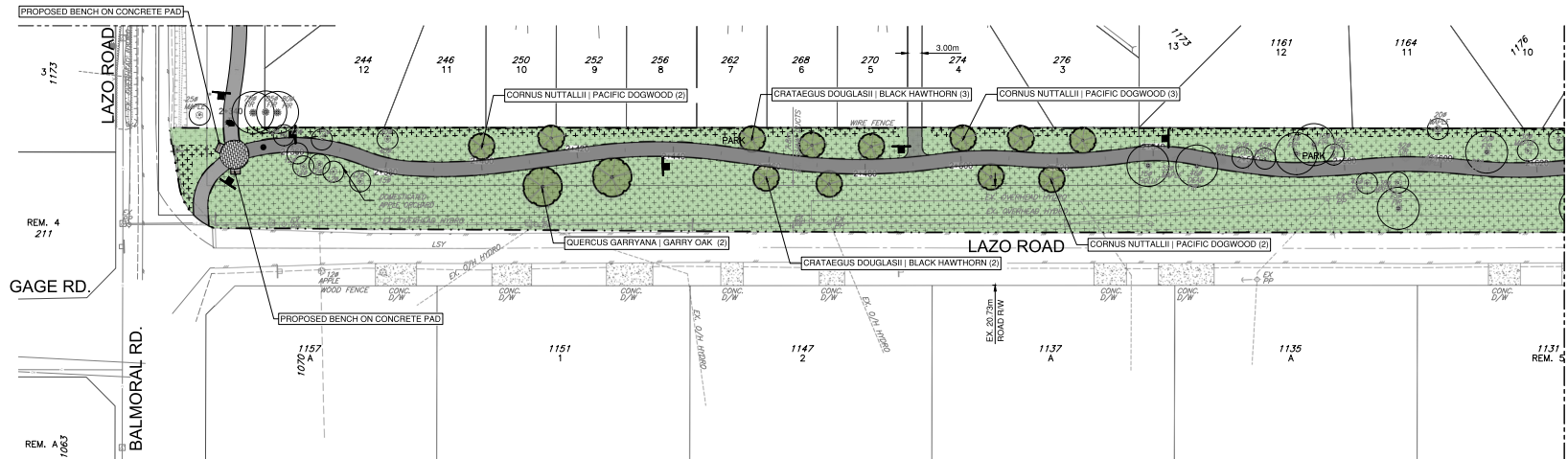


105 VINCIGUARD BL. VICTORIA, BC V8W 2K7
250.681.3830 F: 250.681.8786

SCALE	1:500 HOR. 1:50 VER.	CREATION DATE	SEP 2021
DRAWN BY	NL	DESIGN BY	NL
CHECKED BY	IM	APPROVED BY	IM

DESIGN NO.	33006	DWG. NO.	22
REV.	B	OF	25

DESTROY ALL PRINTS BEARING PREVIOUS NO.



LEGEND

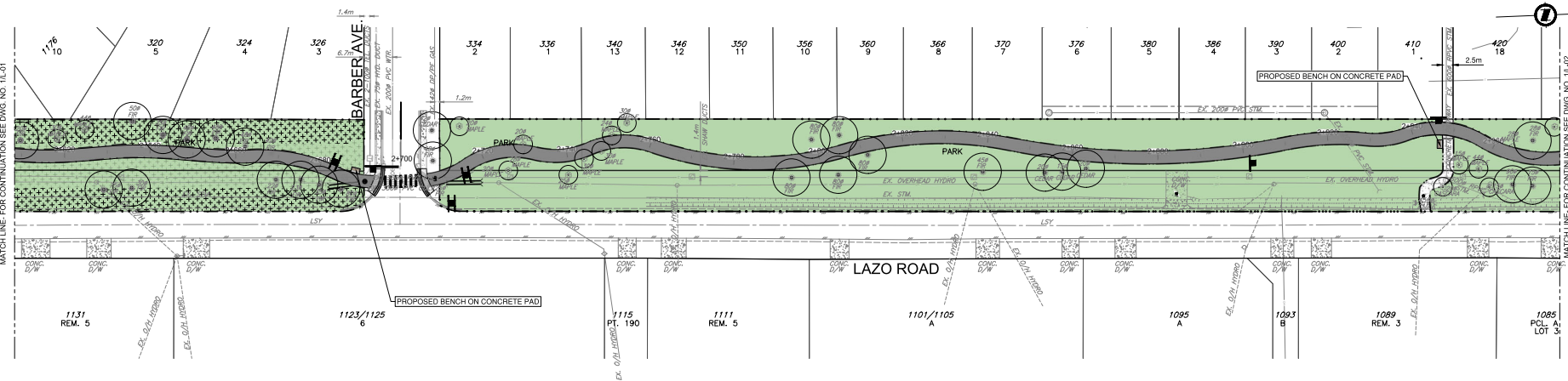
- LANDSCAPE AREA - HYDROSEED SEE LANDSCAPE NOTE 7.5 ON DWG L-03
- WILDFLOWER - HYDROSEED, NATIVE PLANT POLLINATOR SEED MIX 6427 SQM
- EXISTING TREE TO BE RETAINED IF FEASIBLE, SIZE AND LOCATION SCHEMATIC ONLY
- EXISTING OCEAN SPRAY TO BE RETAINED IF FEASIBLE, SIZE AND LOCATION SCHEMATIC ONLY
- PROPOSED BENCH ON CONCRETE PAD
- PROPOSED TREE

TREE SCHEDULE

BOTANICAL NAME COMMON NAME	QTY	SIZE
CORNUS NUTTALLII PACIFIC DOGWOOD	7	50mm Cal.
QUERCUS GARRYANA GARRY OAK	4	60mm Cal.
CRATAEGUS DOUGLASHII BLACK HAWTHORN	5	50mm Cal.

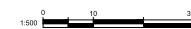
1 LANDSCAPE PLAN - LAZO ROAD AND BALMORAL RD
L-01 PLAN

SCALE 1:500



2 LANDSCAPE PLAN - LAZO ROAD AND BARBER AVE
L-01 PLAN

SCALE 1:500



PLOT DATE: November 3, 2023

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	DRAFT FT	2023-07-28	EZ	AR
B	RE-ISSUED FOR PERMIT	23/1107	NL	AR



LAND-SCAPING LAZO GREENWAY MULTIUSE PATHWAY
LANDSCAPE PLAN



SCALE	1 : 500	CREATION DATE	FEB 2023
DRAWN BY	EZ	DESIGN BY	EZ
CHECKED BY	AR	APPROVED BY	AR

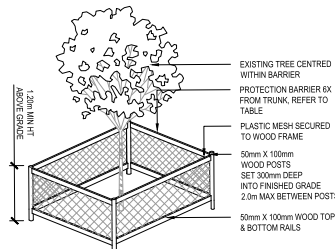
DWG. NO	L-01
OF	25
REV.	B

RE-ISSUED FOR PERMIT DESIGN NO. **33006**

DESTROY ALL PRINTS BEARING PREVIOUS NO.

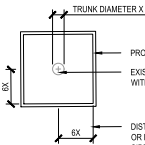
PROTECTION BARRIER DISTANCE

TRUNK DIAMETER	MIN PROTECTION DISTANCE
X	6X
20 cm	1.2 m from trunk
25 cm	1.5 m from trunk
30 cm	1.8 m from trunk
35 cm	2.1 m from trunk
40 cm	2.4 m from trunk
45 cm	2.7 m from trunk
50 cm	3.0 m from trunk
55 cm	3.3 m from trunk
60 cm	3.6 m from trunk
75 cm	4.5 m from trunk
90 cm	5.0 m from trunk
100 cm	6.0 m from trunk



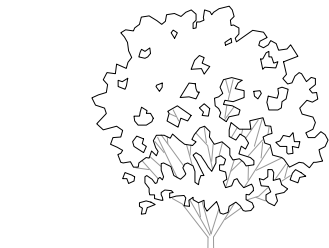
NOTES

1. INSTALL TREE PROTECTION BARRIER BEFORE CONSTRUCTION BEGINS AND KEEP IN PLACE UNTIL LANDSCAPE INSTALLATION IS COMPLETE.
2. DO NOT PARK VEHICLES, STORE EQUIPMENT OR MATERIALS INSIDE TREE PROTECTION AREA.
3. MAINTAIN EXISTING GRADES AT PROTECTION BARRIER.
4. CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF TREE PROTECTION BARRIER.
5. DAMAGED TREES, INCLUDING THOSE ADVERSELY AFFECTED BY COMPACTION IN PROTECTION AREA, TO BE REPLACED AT CONTRACTOR'S EXPENSE.



1 TREE PROTECTION DETAIL

L03 NTS



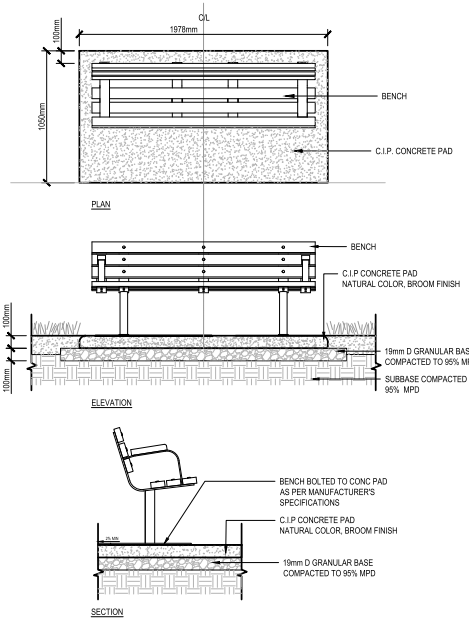
2 TREE PLANTING DETAIL

L03 1:20

3 HYDROSEED DETAIL

L03 1:20

BENCH MODEL: MODEL 2, 1.8 METER WITH ARMREST
 SUPPLIER: VICTOR STANLEY
 FINISH: IPE WOOD
 ATTACHMENT: SURFACE MOUNTING



4 BENCH DETAIL

L03 1:20

LANDSCAPE NOTES

1.0 GENERAL

1. CONTRACTOR TO ENSURE DRAWINGS HAVE BEEN REVIEWED (COMPLETE) AND THAT SUB-CONTRACTORS ARE PROVIDED WITH COMPLETE INFORMATION AT TIME OF BIDDING, AND SUBSEQUENT MOBILIZATION UPON AWARD.
2. CONTRACTOR TO VERIFY ALL UNITS AND QUANTITIES SHOWN.
3. CONTRACTOR TO IMMEDIATELY NOTIFY CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. DO NOT COMMENCE WORK UNTIL DISCREPANCY IS CLARIFIED OR RESOLVED.
4. CONTRACTOR TO IMMEDIATELY NOTIFY CONTRACT ADMINISTRATOR OF ANY SCHEDULE DELAYS IMPOSED BY UNFORESEEN ISSUES. SUBMIT NOTICE THROUGH EMAIL.
5. CONTRACTOR TO SUBMIT RFIS THROUGH EMAIL FOR FORMAL RECORD.

2.0 WARRANTY

1. THE PROJECT REQUIRES A ONE YEAR WARRANTY ON ALL HARD AND SOFTSCAPE WORK.
2. THE WARRANTY PHASE WILL COMMENCE AT THE TIME OF SUBSTANTIAL COMPLETION OF THE TOTAL CONTRACT.
3. ESTABLISHMENT MAINTENANCE OF SOFT LANDSCAPES IS TO BE PROVIDED THROUGH SUBSTANTIAL COMPLETION UNTIL THE TIME OF FINAL ACCEPTANCE OF THE TOTAL CONTRACT WHEN DEFICIENCIES HAVE BEEN AMENDED TO THE SATISFACTION OF THE OWNER, OR AT THE COMPLETION OF THE LIEN 55 DAY HOLDBACK, WHICHEVER DATE IS THE LONGER OF THE TWO WILL BE USED.

3.0 SITE MOBILIZATION, STAGING, AND SAFETY

1. PROVIDE PROOF OF A BC ONE (BC-1) CALL AT THE TIME OF CONSTRUCTION START-UP MEETING.
2. ENSURE ESC (EROSION AND SEDIMENT CONTROL) MEASURES HAVE BEEN REVIEWED PRIOR TO COMMENCING DEMOLITION OR EXCAVATION WORKS OF THE SITE. AMEND ANY ESC RELATED REQUESTS FROM THE ENVIRONMENTAL ENGINEER IMMEDIATELY. PROVIDE PHOTO PROOF AND EMAIL CONFIRMATION TO THE CONTRACT ADMINISTRATOR AND ENVIRONMENTAL ENGINEER FOR APPROVAL PRIOR COMMENCING WORK.
3. ENSURE TREE PROTECTION FENCING HAS BEEN REVIEWED PRIOR TO COMMENCING WORK.

4.0 SITE CLEANLINESS

1. MAINTAIN THE SITE IN A CLEAN AND ORDERLY FASHION AND FOLLOWING BEST PRACTICES WITH CURRENT WCB SAFETY REQUIREMENTS.
2. ENSURE CLEAN ROADS AND SITE ENTRY/EXIT THROUGH THE ENTIRE COURSE OF CONSTRUCTION. PROVIDE ADDITIONAL CLEANING AS REQUESTED BY THE CONTRACT ADMINISTRATOR.

5.0 HARDSCAPES

1. GENERAL REQUIREMENTS
 1. ENSURE THAT HARDSCAPES MEET FLUSH WITH ADJOINING SURFACES UNLESS NOTED OTHERWISE.
 2. ENSURE THAT TRENCHING HAS BEEN REVIEWED AND ACCEPTED PRIOR TO BACKFILLING OF MATERIALS.
 3. WHEN MEETING A NEW HARD SURFACE TO AN EXISTING HARD SURFACE, PROVIDE NOTICE TO THE CONTRACT ADMINISTRATOR OF ANY CONDITIONS WHERE THE JOINT WILL RESULT IN MORE THAN A 3MM DIFFERENTIAL (I.E. A NEW CONCRETE SIDEWALK IS MEETING AGAINST AN EXISTING ASPHALT SIDEWALK THAT HAS A SMALL DEPRESSION). DO NOT COMMENCE WORK UNTIL THE CONTRACT ADMINISTRATOR HAS CLARIFIED IF RECTIFICATION OF THE EXISTING SURFACE IS NEEDED TO AVOID TRIPPING HAZARD.
 4. CONFIRM DESIGN GRADES HAVE BEEN CHECKED PRIOR TO POURING, LAYING OR INSTALLING ANY HARD SURFACE MATERIALS OVER PREPARED BACKFILL.
 5. REPORT ANY GRADES THAT CONTRADICT BEST CONSTRUCTION PRACTICES IMMEDIATELY TO THE CONTRACT ADMINISTRATOR (I.E. WATER FLOWS TOWARDS A BUILDING OR IS GOING TO PUDDLE IN AN AREA, OR AN AREA OF SURFACE APPEARS FLAT). DO NOT PROCEED UNTIL SLOPES AND DESIGN HAVE BEEN CLARIFIED.

6.0 SITE FURNISHINGS

1. SUBMIT SHOP DRAWINGS FOR REVIEW OF ALL SPECIFIED SITE FURNISHINGS. THIS APPLIES TO PRE-MANUFACTURED PRODUCTS AND CUSTOM DETAILS. INCLUDE COLOUR AND FINISH INFORMATION WITH DRAWINGS, INCLUDING INFORMATION ON ALL FASTENERS. INCLUDE INSTALLATION GUIDES WHEN AVAILABLE BY MANUFACTURER.

7.0 SOFT LANDSCAPES

1. SOFT LANDSCAPE SUPPLY, SUBMITTALS, PREPARATION AND EXECUTION TO COMPLY WITH BC LANDSCAPE STANDARDS. FULL DOCUMENT APPLIES.
2. SUBMIT REQUEST FOR REVIEW BY CONSULTANT OF SITE SOFT LANDSCAPE FINE GRADING PRIOR TO INSTALLATION OF SOO OR SEED.
3. PLANTS AND TREES
 1. PROVIDE CONSULTANT WITH OPPORTUNITY TO REVIEW PLANT STOCK AT NURSERY PRIOR TO SHIPMENT TO SITE. CONSULTANT RESERVES RIGHT TO REJECT STOCK ON SITE WHEN INCONSISTENT FROM NURSERY SAMPLE STOCK. PROVIDE CONSULTANT OPPORTUNITY TO REVIEW TREES AT NURSERY AND TAG PREFERRED TREE STOCK FOR THE PROJECT THAT COMPLIES WITH DRAWING SIZE, SPECIES, AND FORM. ONE (1) WEEK NOTICE IS REQUIRED FOR NURSERY REVIEW.
 2. GROWING MEDIUM TO BE LEVEL 2 GROOMED, 2L FOR GRASS AREAS AND 2P GROWING MEDIUM FOR TREES AS PER CANADIAN LANDSCAPE STANDARD.
 3. SUBMIT GROWING MEDIUM REPORT FOR REVIEW AND APPROVAL PRIOR TO ORDER OR INSTALLATION.
 4. MULCH:
 1. TO BE DARK BROWN (NOT RED) IN COLOUR.
 2. TO COMPLY WITH CANADIAN LANDSCAPE STANDARDS.
 3. REQUIRED FOR ALL NEW TREE AND SHRUB PLANTINGS UNLESS NOTED OTHERWISE.
4. LANDSCAPE AREAS:
 1. RETAIN EXISTING TREES WHERE FEASIBLE FOR MULTI-USE PATH ALIGNMENT.
 2. CLEAR AND GRUB ALL EXISTING BRUSH IN LANDSCAPE AREA.
 3. MECHANICALLY REMOVE ALL BLACKBERRY ROOTS IN LANDSCAPE AREA EXCEPT HAND REMOVAL ONLY IN TREE DRIP LINE AREAS.
 4. FINE GRADE TO CREATE UNIFORMLY GRADED SURFACE (REMOVE DESIRS, LARGE ROCKS, HUMPS AND HOLLOW). RETAIN ROADSIDE DITCH PROFILE.
 5. SCARIFY 100mm DEPTH EXISTING SOIL IN LANDSCAPE AREA. ROADSIDE DITCH NOT TO BE SCARIFIED.
 6. INSTALL 500mm PLANTING MEDIUM IN LANDSCAPE AREA EXCEPT IN DITCH AREAS.
 7. HYDROSEED NATURALIZED GRASS SEED:
 1. TYPICAL: PREMIER COASTAL REVEGETATION MIX SUPPLIED BY PREMIER PACIFIC SEEDS OR APPROVED EQUIVALENT.
 2. WILDLOWER: NATIVE PLANT POLLINATOR SEED MIX SUPPLIED BY SATINFLOWER NURSERIES OR APPROVED EQUIVALENT.
 5. THE CONSULTANT MAY REQUEST, AT THE CONTRACTOR'S EXPENSE, UP TO TWO TESTS OF GROWING MEDIUM IF SUSPECTED INCONSISTENCIES APPEAR.
 6. ESTABLISHMENT MAINTENANCE AND WATERING: REFER TO SECTION 2.0 OF THESE LANDSCAPE NOTES.
 7. WARRANTY: REFER TO SECTION 2.0 OF THESE LANDSCAPE NOTES.

RE-ISSUED FOR PERMIT DESIGN NO.

33006

REV NO	REVISIONS	DATE	DRAWN	APPROV
A	DRAFT #1	2023-07-28	EZ	AR
B	RE-ISSUED FOR PERMIT	23/11/07	NL	AR



LAND-SCAPING LAZO GREENWAY MULTIUSE PATHWAY LANDSCAPE NOTES AND DETAILS



SCALE	AS SHOWN	CREATION DATE	FEB 2023
DRAWN BY	EZ	DESIGN BY	EZ
CHECKED BY	AR	APPROVED BY	AR

DESIGN NO.	33006	DWG NO.	L-03
CREATION DATE	FEB 2023	DATE	25
APPROVED BY	AR	REV.	B