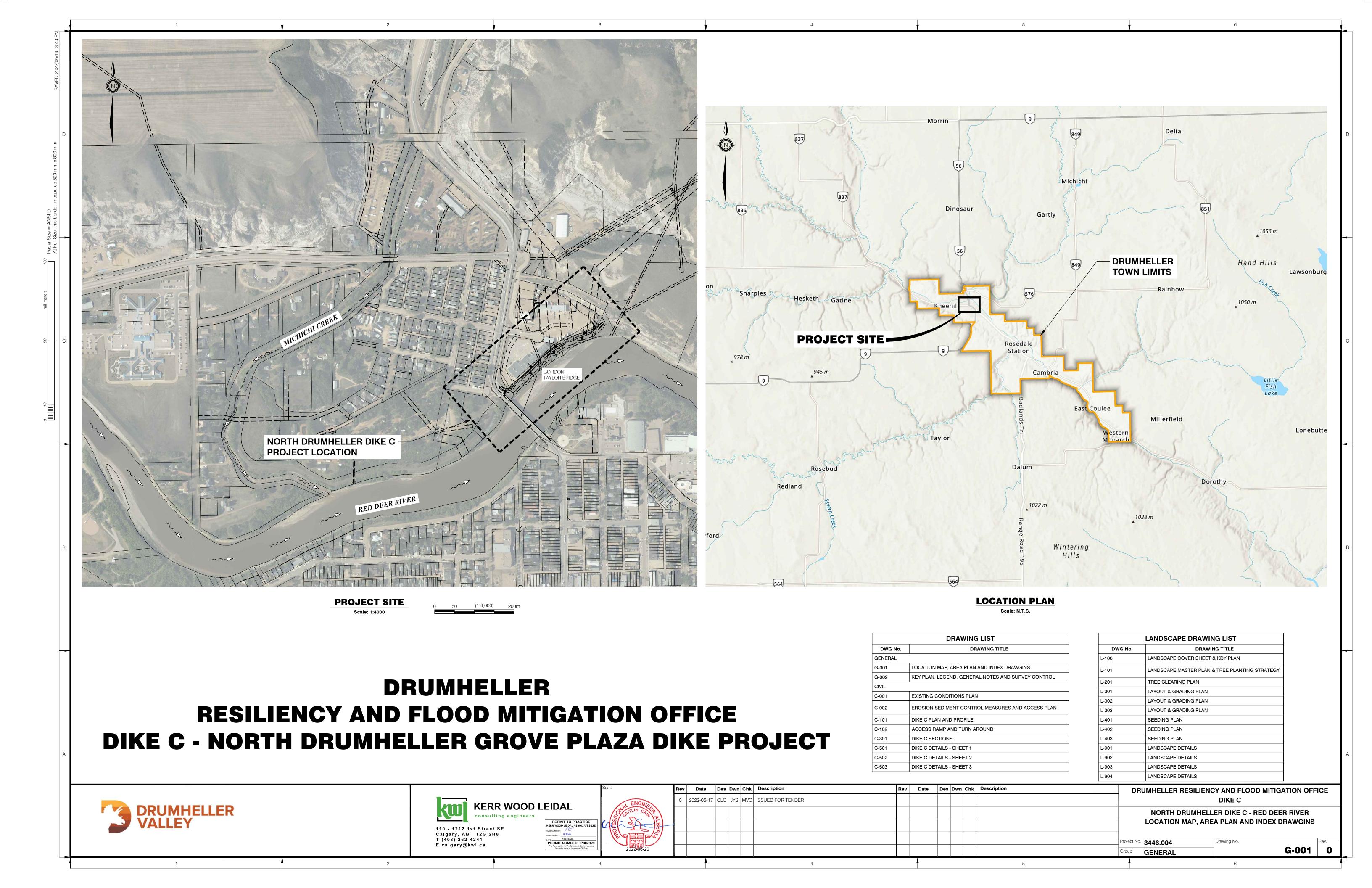


TENDER NO.: 2022-06-21-C

for

## TOWN OF DRUMHELLER DIKE C – NORTH DRUMHELLER GROVE PLAZA DIKE PROJECT

Volume 3 of 3: Contract Drawings



Scale 1:3000

**LEGEND** ——— — LEGAL LOT BOUNDARY ---- EASEMENT / RIGHT-OF-WAY EDGE OF PAVED ROADS / PATHWAYS ----- EDGE OF GRAVEL ROADS / PATHWAYS FENCE LINE  $\Leftrightarrow =$ PROPOSED FLOW DIRECTION RETAINING WALL TOP OF BANK TOE OF BANK -( )—— D —— STORM SEWER, CATCH BASIN & MANHOLE — \$ —— SANITARY SEWER WITH MANHOLE SANITARY FORCEMAIN WITH AIR RELEASE \_\_\_\_ c \_\_\_ c ABLE MAIN ---- E --- ELECTRICAL MAIN OVERHEAD HYDRO & UTILITY POLE ---- TELEPHONE MAIN — - - - T/OH — OVERHEAD TELEPHONE -<>- - - GAS MAIN & VALVE STREET LIGHT DUCT & LIGHT 0-000 + 0-020 RIVER CENTRELINE STATIONING ORDINARY HIGH WATER MARK (448 m<sup>3</sup>/s ON RED DEER RIVER) • OIP OIP OIP MON - IRON PIN, SURVEY 100.000 SURVEY TAG IRON PIN, SURVEY MONUMENT

#### **CONSTRUCTION NOTES**

- 1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALBERTA TRANSPORTATION CIVIL WORKS MASTER SPECIFICATIONS, DRUMHELLER RESILIENCY AND FLOOD MITIGATION OFFICE STANDARD SPECIFICATIONS & DRAWINGS, UNLESS NOTED OTHERWISE. WHEN A CONFLICT BETWEEN SPECIFICATION ARISES, THE MOST STRINGENT SHALL APPLY.
- 2. ALL AFFECTED RESIDENTS AND BUSINESSES SHALL BE NOTIFIED IN WRITING A MINIMUM OF 7 BUSINESS DAYS PRIOR TO ANY SCHEDULED ACCESS AND/OR SERVICE DISRUPTIONS.
- 3. CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN TO ADDRESS CONSTRUCTION DISRUPTIONS.
- 4. DURING CONSTRUCTION, ENSURE ALL OCCUPATIONAL HEALTH AND SAFETY (OH&S) REGULATIONS ARE FOLLOWED. CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH ALBERTA OCCUPATIONAL HEALTH AND SAFETY REPORTS, IF
- 5. ENSURE THE CURRENT MUNICIPAL OH&S GROUND DISTURBANCE PRACTICE AND PROCEDURES ARE FOLLOWED. CONTACT ALBERTA ONE CALL FOR EXTERNAL
- UTILITY LOCATES AT LEAST 72 HRS PRIOR TO THE START OF CONSTRUCTION. 6. CONFIRM ALL EXISTING SERVICES, CONNECTIONS AND CROSSING POINTS AT LEAST 48 HRS PRIOR TO START OF CONSTRUCTION ON ANY SUCH ITEM. NOTIFY THE
- OWNER OR OWNER'S REPRESENTATIVE SHOULD CONFLICTS BE FOUND. 7. ADJUST ALL EXISTING AND NEW APPURTENANCES TO MEET THE FINAL DESIGN
- 8. RESTORE ALL AREAS AFFECTED BY CONSTRUCTION WORKS TO THEIR ORIGINAL CONDITION OR BETTER.
- 9. ENSURE THAT ALL OPERATIONAL SERVICES TO EXISTING BUILDINGS REMAIN FUNCTIONAL DURING CONSTRUCTION AND OPERATIONAL POST-CONSTRUCTION.
- 10. REPAIR AND/OR REPLACE ALL INFRASTRUCTURE (INCLUDING PRIVATE PROPERTY & BOULEVARDS) DAMAGED OR REMOVED DURING CONSTRUCTION TO BETTER THAN
- OR EQUAL TO PRE-CONSTRUCTION CONDITION. 11. ALL ELEVATIONS AND DIMENSIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

#### **ENVIRONMENTAL:**

USE BEST MANAGEMENT PRACTICES (BMP), IN ACCORDANCE WITH ALBERTA TRANSPORTATION, ALBERTA BMP GUIDELINES AND REGULATIONS, DURING CONSTRUCTION. ADJUST WORK ACTIVITIES DURING PERIODS OF PRECIPITATION AND/OR SNOWMELT TO MITIGATE AGAINST SEDIMENT RELEASE TO THE STORM DRAIN SYSTEM OR RED DEER RIVER. SOME BMP'S TO CONSIDER ARE LISTED BELOW: INSPECT ALL EQUIPMENT DAILY FOR FLUID LEAKS.

- ENSURE SPILL PROTECTION MEASURES ARE IN PLACE DURING RE-FUELING OF EQUIPMENT.
- KEEP A SPILL KIT ON SITE AT ALL TIMES. CONTRACTOR SHALL PREPARE AND SUBMIT AN ECO PLAN FOR APPROVAL PRIOR TO
- CONSTRUCTION AND ADHERE TO THE PLAN DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN FROM DAMAGE DURING CONSTRUCTION. NOTIFY THE CONTRACT ADMINISTRATOR IMMEDIATELY IF A POSSIBLE CONFLICT IS FOUND.
- CONTRACTOR TO COMPLETE NEST SWEEP PRIOR TO REMOVING ANY TREES ON
- CONTRACTOR TO ADHERE TO ALL CONDITIONS OF THE REGULATORY APPROVALS.

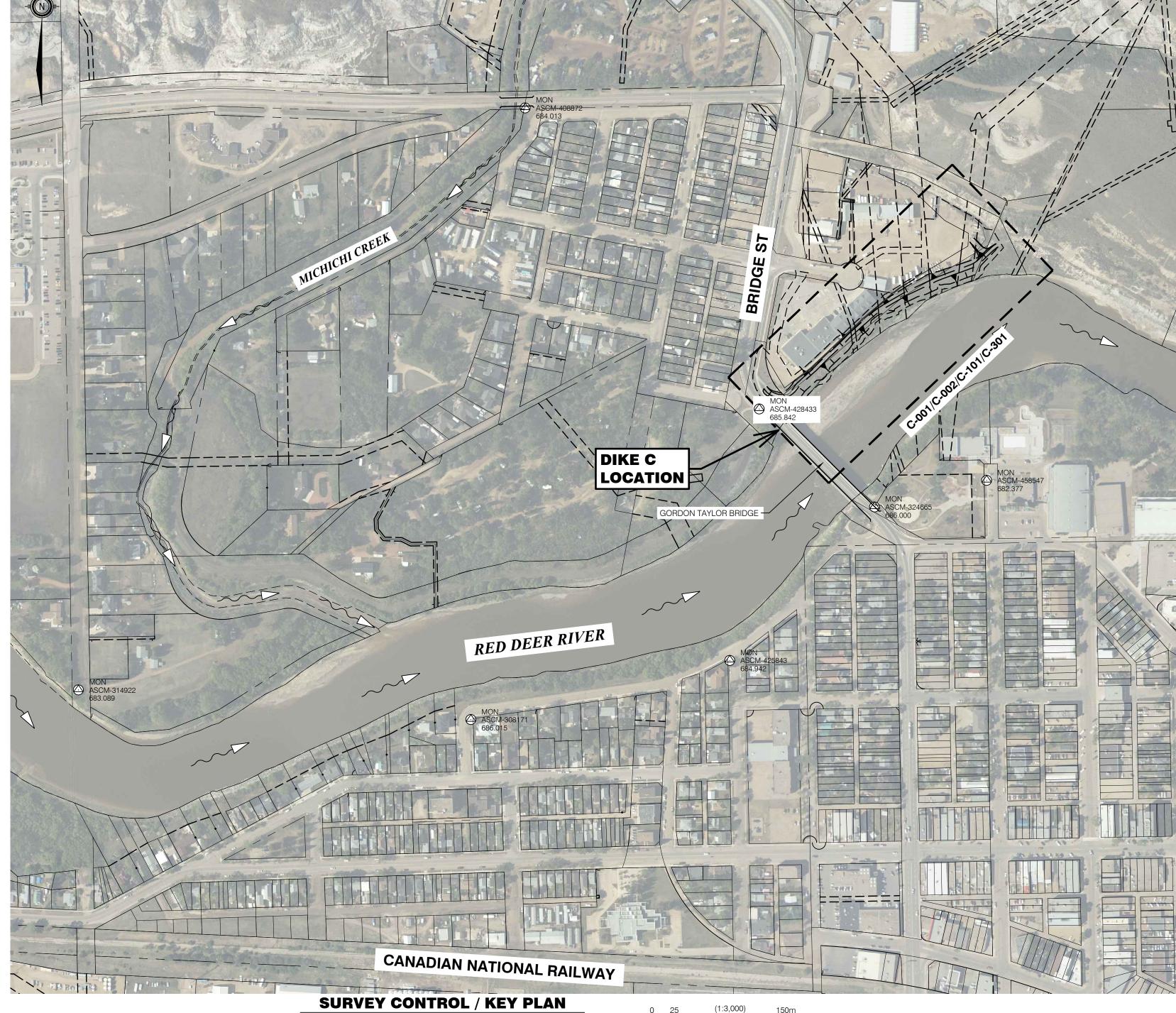
#### **UTILITIES:**

- 1. LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE TO DETERMINE EXACT LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.
- 2. ENSURE ALL EXISTING WATER SYSTEMS REMAIN IN USE DURING CONSTRUCTION. 3. IF GAS MAINS ARE PRESENT WITHIN THE PROJECT AREA, ALTAGAS AND
- OCCUPATIONAL HEALTH AND SAFETY (OH&S) REGULATIONS SHALL BE FOLLOWED. ALTAGAS REPRESENTATIVE MY BE REQUIRED TO BE PRESENT WHEN WORKING ADJACENT TO GAS MAINS (ESPECIALLY HIGH PRESSURE)
- 4. THE CONTRACTOR SHALL PROVIDE 72 HRS NOTICE PRIOR TO CONSTRUCTION NEAR ATCO UTILITY BOXES. A REPRESENTATIVE FROM ATCO MAY BE SCHEDULED TO BE PRESENT DURING EXCAVATION.
- 5. WHERE HEAVY WORK IS REQUIRED WITHIN THE EXCAVATION ZONE SURROUNDING UTILITY POLES, AND A POLE HOLD IS REQUIRED, THE CONTRACTOR MUST BE AUTHORIZED AND BE ABLE TO PULL A LIVE LINE PERMIT.

## **REFERENCES:**

- 1. ORTHOPHOTOS WERE TAKEN ON MAY 27, 2019 AND PROVIDED BY THE TOWN OF DRUMHELLER.
- 2. BASE DATA, INCLUDING LEGAL BOUNDARIES, PLANIMETRIC FEATURES AND EXISTING UTILITIES WERE PROVIDED BY THE TOWN OF DRUMHELLER.
- 3. EXISTING TOPOGRAPHY CONTOURS GENERATED FROM MAY 2018 LIDAR VERTICAL ACCURACY OF +/- 0.15 M AT 955 ON HARD, FLAT, OPEN SURFACES PROVIDED BY THE TOWN OF DRUMHELLER.
- 4. WATER LEVELS WERE OBTAINED FROM THE RED DEER RIVER AND TRIBUTARIES MODEL DEVELOPED BY NHC.
- 5. RED DEER RIVER AND MICHICHI CREEK CHAINAGES REFER TO THE CHAINAGES OBTAINED FROM THE RED DEER RIVER AND TRIBUTARIES MODEL DEVELOPED BY

SURVEY	CONTROL INFORM	MATION		
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POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
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408872	5704737.678	89160.964	684.013	ASCM
324665	5704291.686	89551.698	686.000	ASCM
314922	5704086.976	88661.291	683.089	ASCM
458547	5704321.330	89677.034	682.377	ASCM
428433	5704401.222	89422.819	685.842	ASCM
425843	5704120.081	89389.736	684.942	ASCM

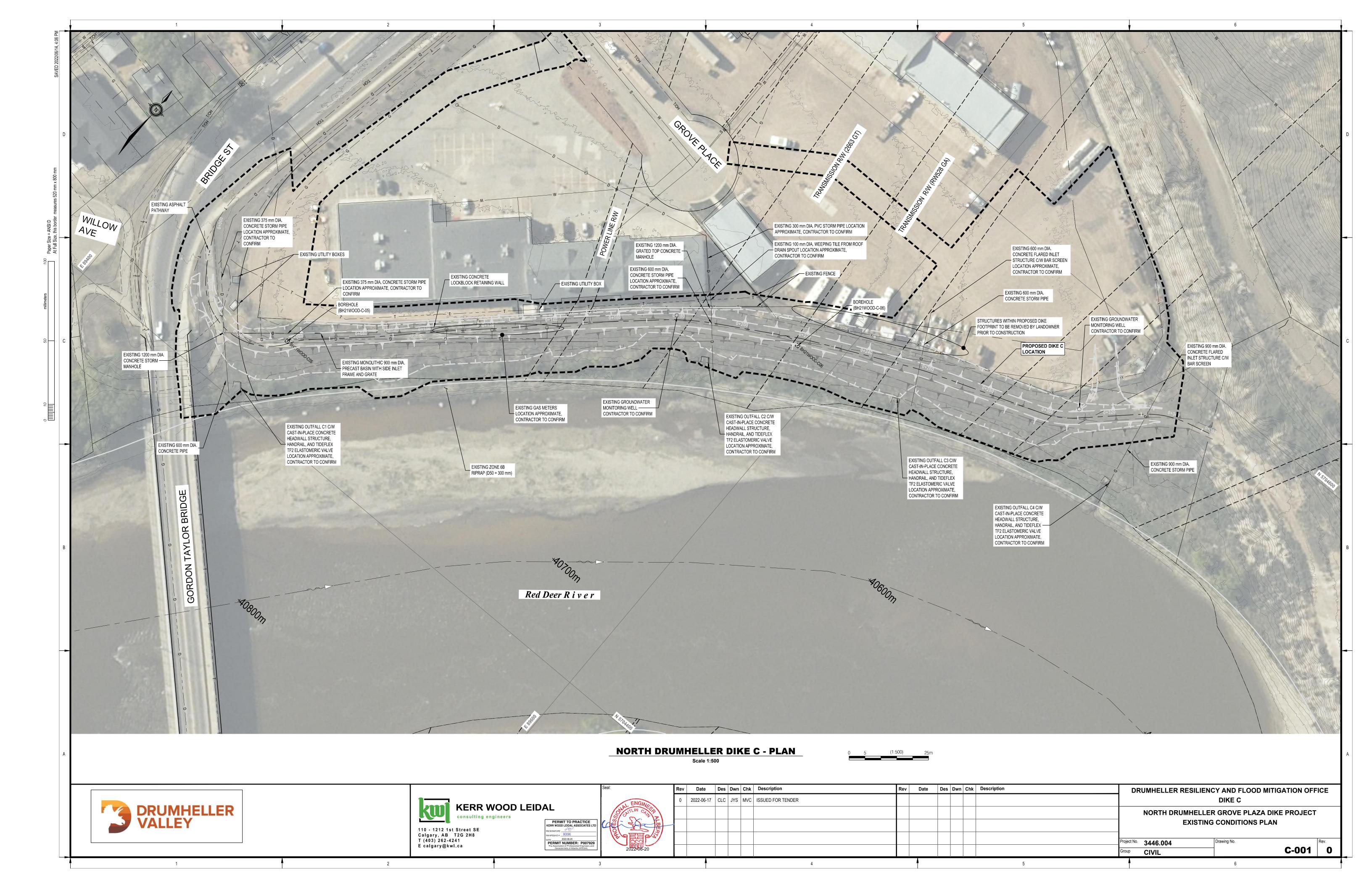


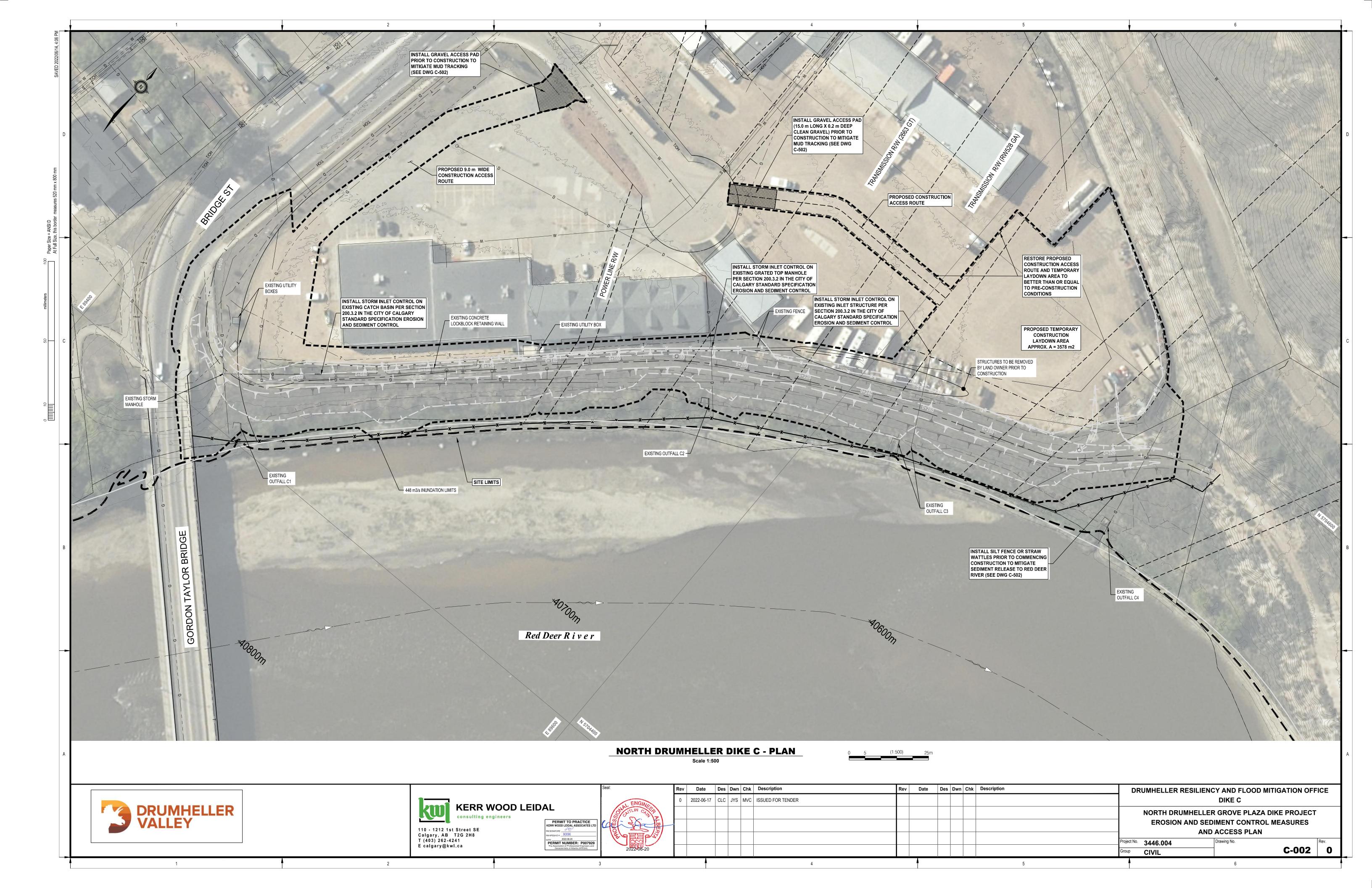


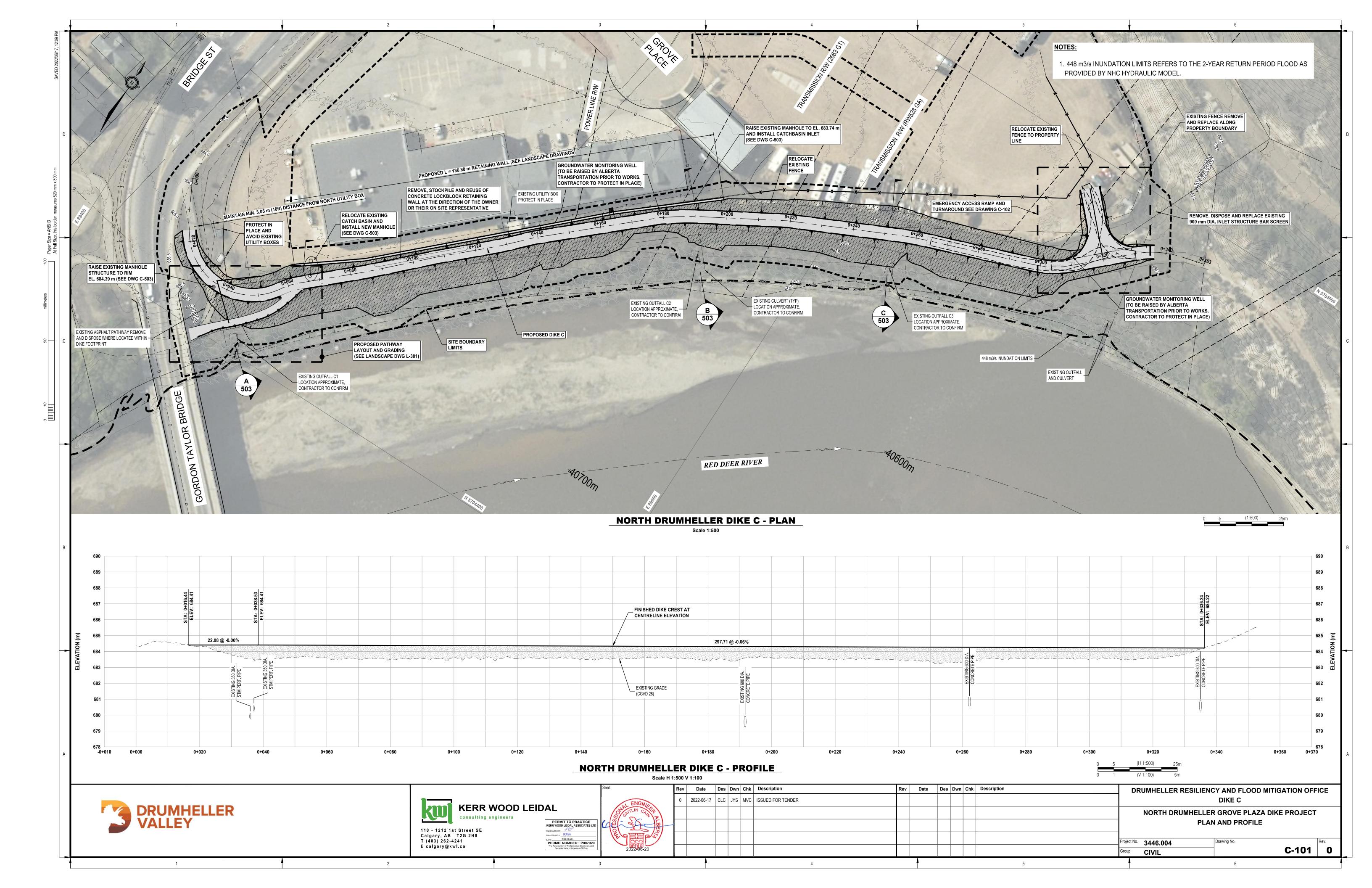
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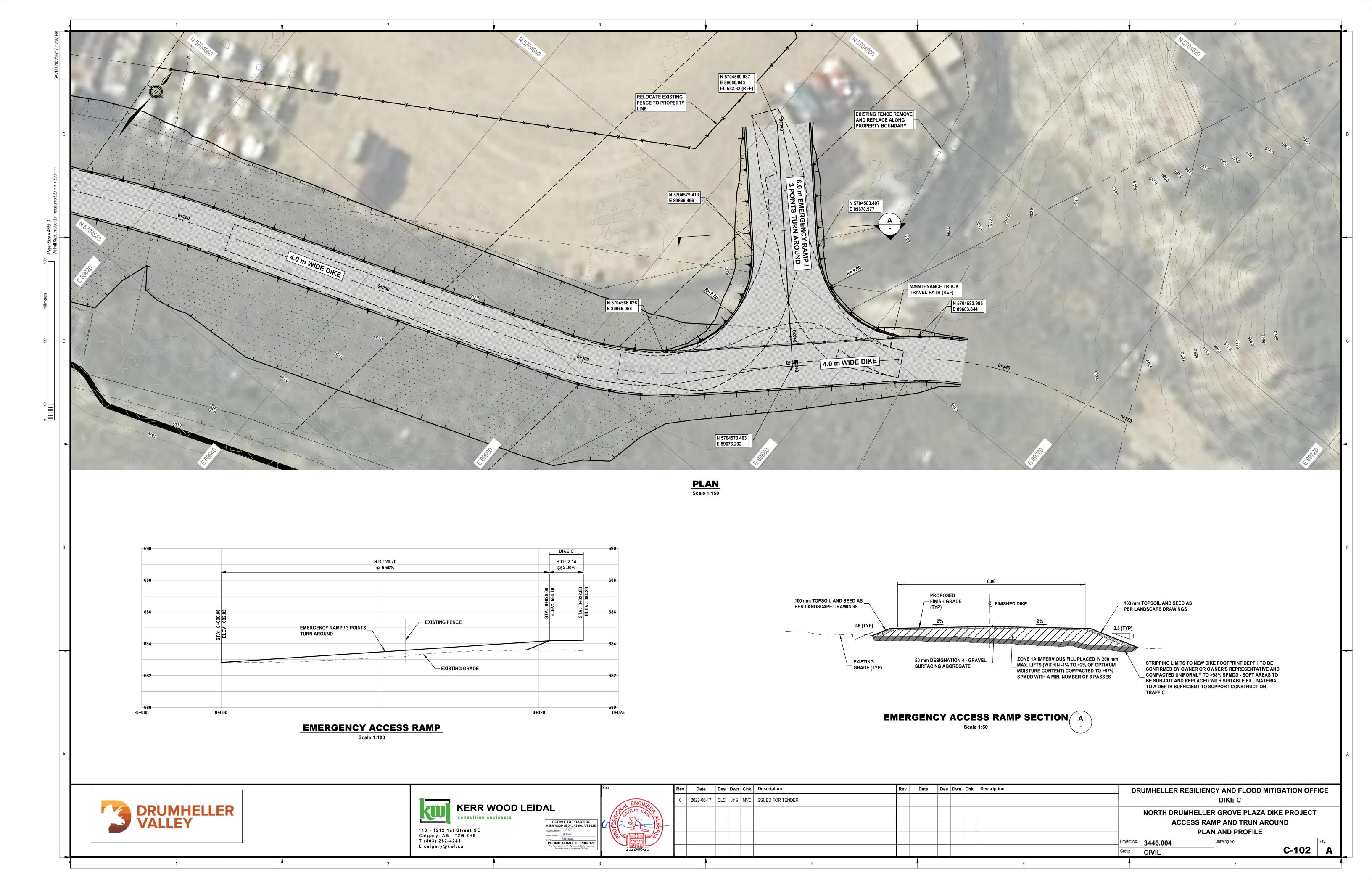
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EBE.													KEY PLAN, LEGEND, GENERAL NOTES AND SURVEY CONTROL
3/													Project No. <b>3446.004</b> Drawing No. Rev.
•													Group GENERAL G-002 0

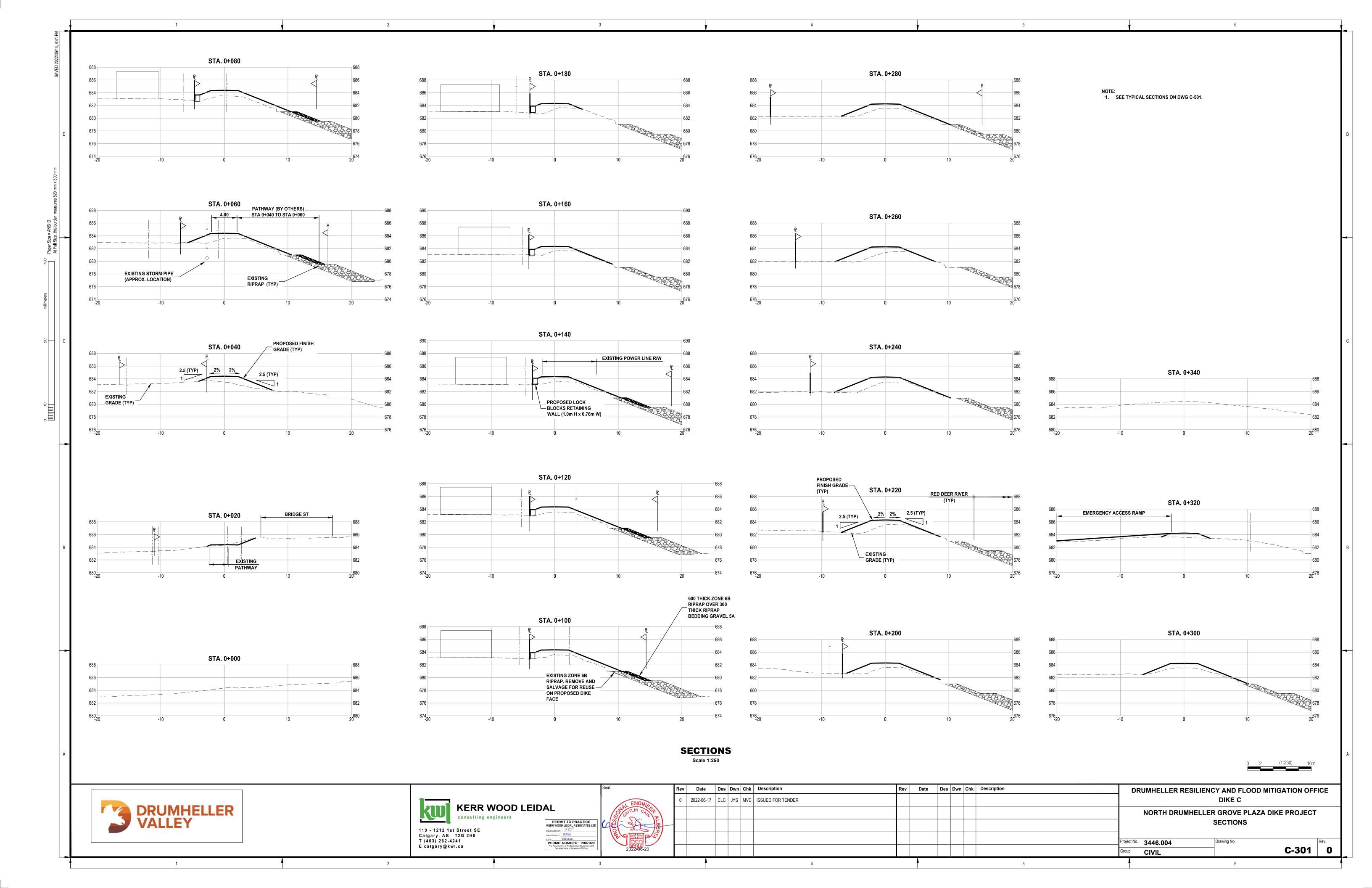
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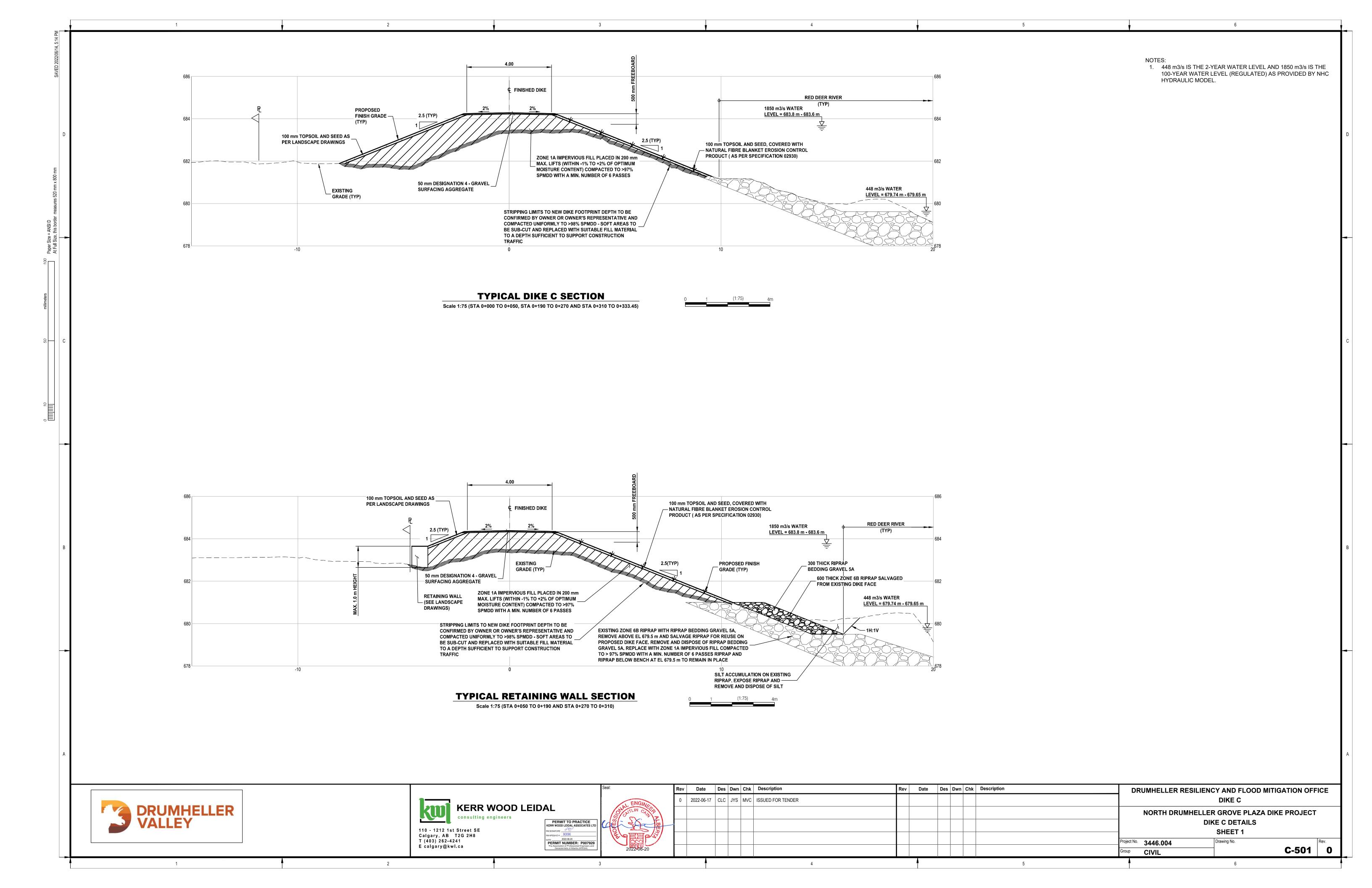




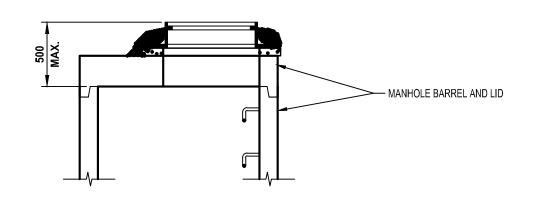








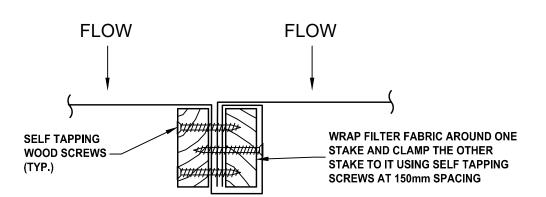
- 1. CONTRACTOR TO SALVAGE (IF SUITABLE) EXISTING CONCRETE MANHOLE LIDS, FRAMES & COVERS.
- 2. CONTRACTOR TO CONFIRM EXISTING CONCRETE BARREL DIAMETER AND STYLE OF MANHOLE BARREL JOINT.
- 3. CONTRACTOR TO MATCH EXISTING BARREL JOINT AND SUPPLY ADDITIONAL MANHOLE BARREL RISERS AS REQUIRED TO RAISE LID, FRAMES & COVERS TO SPECIFIED ELEVATIONS AS SHOWN IN DRAWING C-503, CONCRETE MANHOLE LIDS TO BE RE-USED IF SUITABLE (AS DETERMINED BY THE OWNER), OR SUPPLIED AND REPLACED BY THE CONTRACTOR IF NOT SUITABLE FOR RE-USE.
- 4. CONTRACTOR TO USE MASTIC JOINT SEAL AND/OR BARREL JOINT GASKET(S) AND GROUT ALL INTERIOR & EXTERIOR BARREL JOINTS AND ENSURE A WATERTIGHT INSTALLATION.
- 5. CONTRACTOR TO WRAP 6 MIL POLY ABOUT EXTERIOR OF EXTENDED MANHOLE BARRELS PRIOR TO BACKFILLING



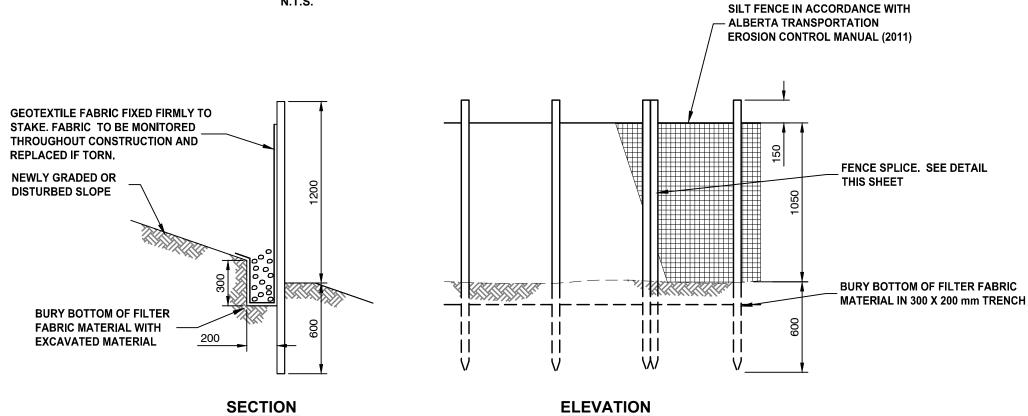
#### STANDARD MANHOLE RAISE DETAIL

#### **GENERAL NOTES:**

- 1. ALL WORK MUST BE UNDERTAKEN AND COMPLETED IN SUCH A MANNER AS TO PREVENT THE RELEASE OF SILT, RAW CONCRETE LEACHATE OR OTHER DELETERIOUS SUBSTANCES INTO ANY DITCH, WATERCOURSE, RAVINE AND STORM SEWER SYSTEM.
- 2. MAINTAIN ALL SEDIMENT CONTROL FACILITIES SHOWN ON THIS DRAWING UNTIL 90% OF THE LANDSCAPING IS COMPLETED.
- 3. SILT FENCE/FILTER FABRIC TO BE NILEX 2130 AND NILEX 4535 (C-10) RESPECTIVELY OR ENGINEER APPROVED EQUIVALENT.
- 4. REDUCED DUST BY USE OF WATER SPRAYED ON THE EXPOSED SOURCE OF THE DUST AS
- 5. TEMPORARY EXPOSED SLOPES AND SPOIL STOCK PILES SHALL BE COVERED WITH ONE LAYER OF 6 mil POLY WEIGHTED AND STAPLED INTO PLACE.
- 6. SEDIMENT TO BE REMOVED FROM THE SEDIMENT CONTROL SYSTEM AFTER EACH STORM EVENT OR WHEN SEDIMENT HAS EXCEEDED 33% OF DESIGN SEDIMENT STORAGE VOLUME.

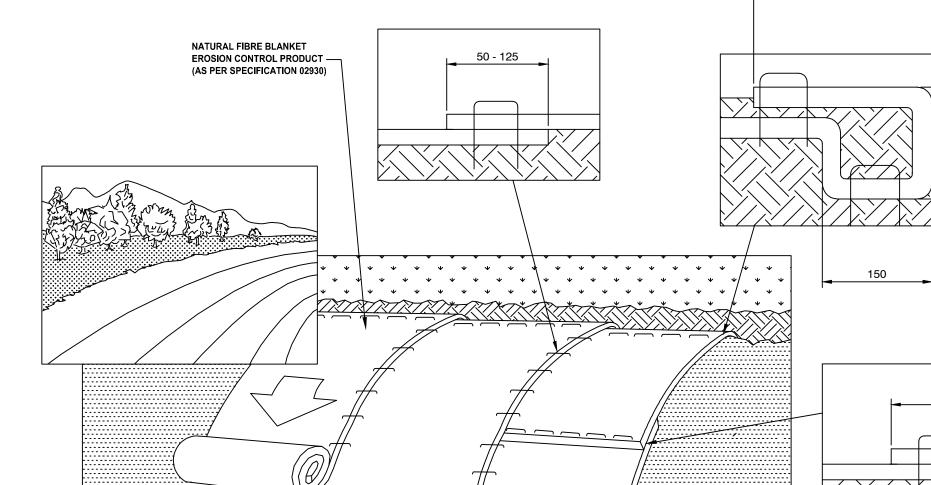


#### **FABRIC SPLICE DETAIL**



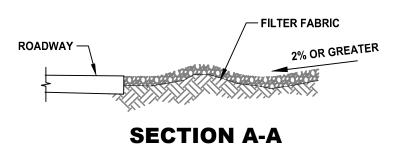


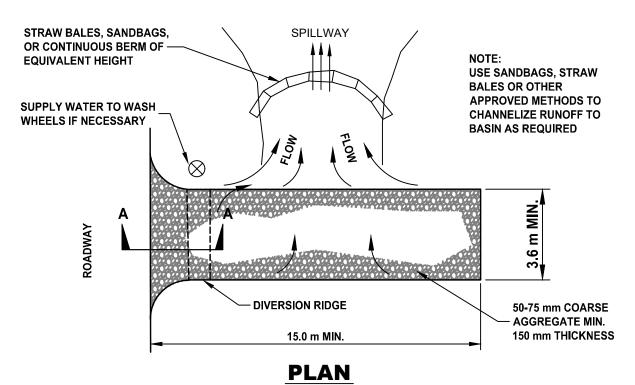
**SCALE 1:25** 



**INSTALLATION NOTES:** PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. 2. BEGIN AT THE TOP OF THE SLOPES BY ANCHORING THE RECP'S IN A 0.15m DEEP X 0.15m WIDE TRENCH WITH APPROXIMATELY 0.30m OF RECP's EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE RECP"S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 0.30m APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND APPLY REMAINING 0.30m PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 0.20m APART ACROSS THE WIDTH OF THE RECP's ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE, ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OIF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN. 4. THE EDGE OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 0.050m - 0.125m OVERLAP DEPENDING ON RECP's WIDTH. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 0.075m OVERLAP. STAPLE THROUGH OVERLAPPED AREA. 1000 APPROXIMATELY 0.30m APART ACROSS ENTIRE RECP's WIDTH.  $\circ$ 2.0 STAPLES PER SQ. M. - 200mm WIRE STAPLES STAPLE PATTERN

**EROSION CONTROL BLANKET INSTALLATION** 

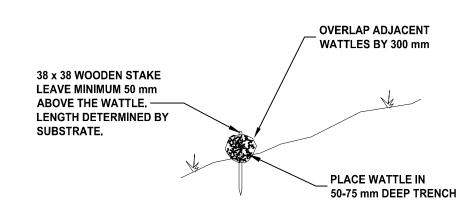




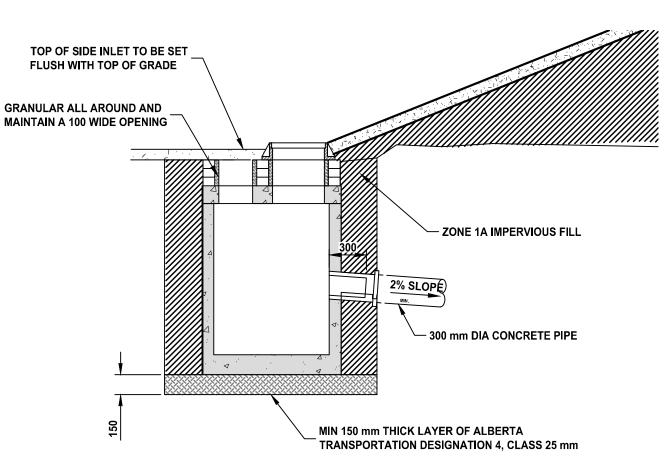
#### NOTES:

- 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- 4. THIS FIGURE IS PROVIDED FOR GUIDANCE ONLY, AND DOES NOT CONSTITUTE A DESIGN. THE CONTRACTOR IS REQUIRED TO SUBMIT A SITE SPECIFIC DESIGN IN THEIR EROSION AND SEDIMENT CONTROL PLAN.

**GRAVEL ACCESS PAD DETAIL** N.T.S.



### **WATTLE ROLL DETAIL**



## **CATCH BASIN DETAIL**



NOTE: ALL DIMENSIONS ON THIS

SHEET ARE MILLIMETERS (mm)

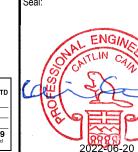
UNLESS OTHERWISE NOTED



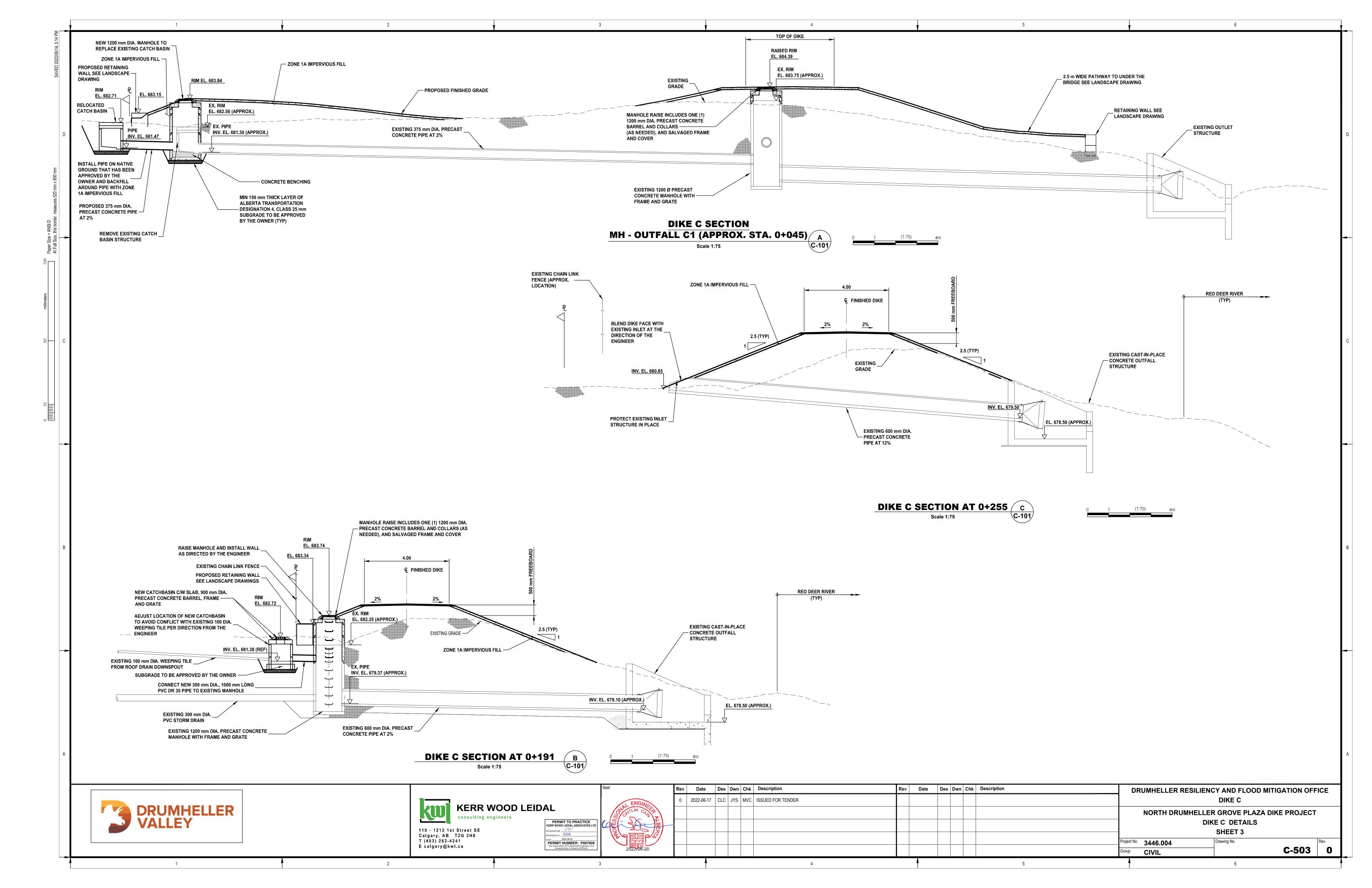
**KERR WOOD LEIDAL** 

110 - 1212 1st Street SE Calgary, AB T2G 2H8 T (403) 262-4241 E calgary@kwl.ca





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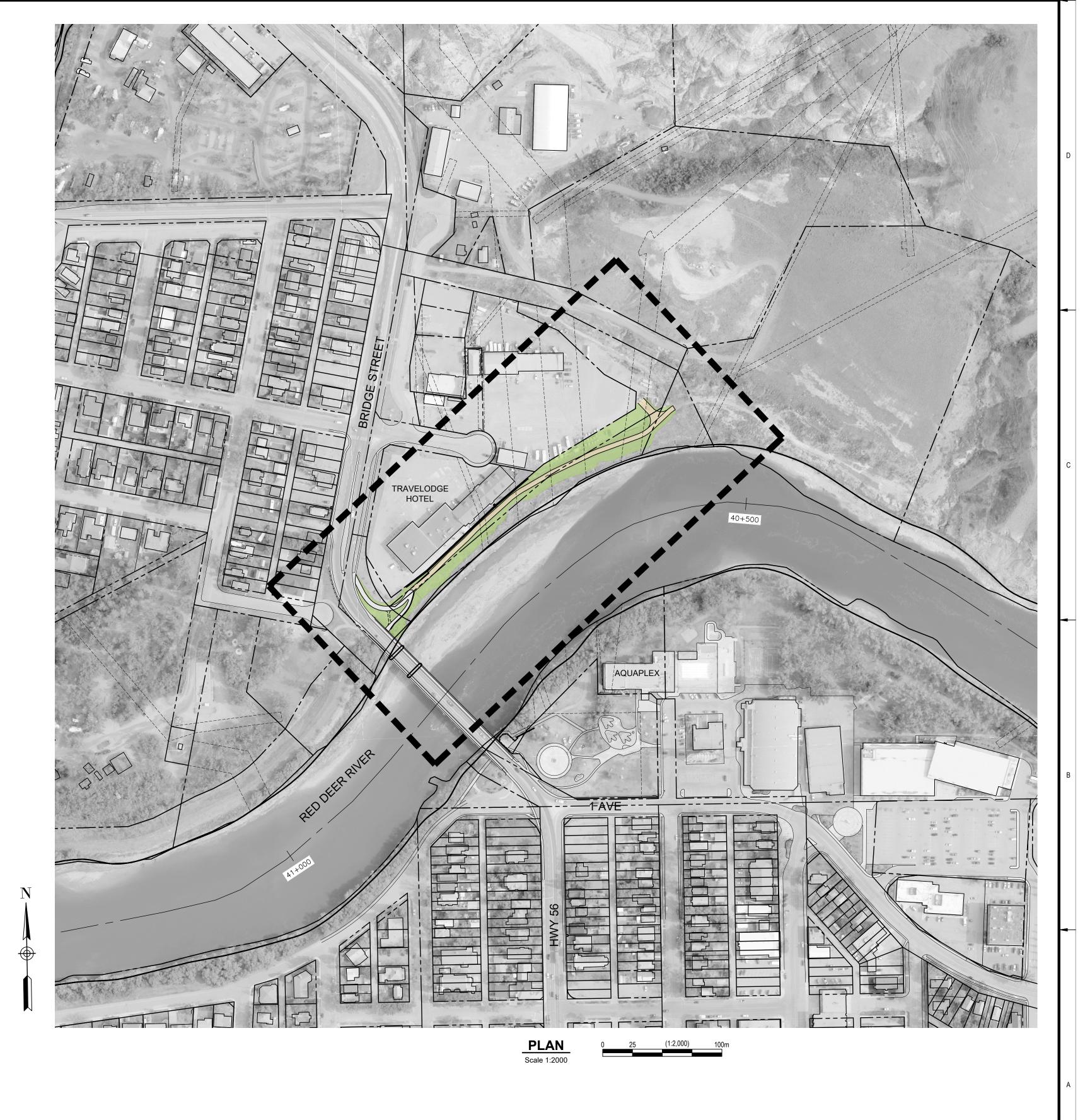


# TOWN OF DRUMHELLER

# PACKAGE C DIKE PROJECT NORTH DRUMHELLER DIKE C LANDSCAPE TENDER PACKAGE

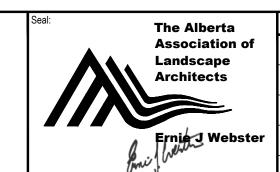
#### **DRAWING LIST**

DIAWING	
DRAWING NO.	DRAWING TITLE
L-100	LANDSCAPE COVER SHEET & KEY PLAN
L-101	LANDSCAPE MASTER PLAN & TREE PLANTING STRATEGY
L-201	TREE CLEARING PLAN
L-301	LAYOUT & GRADING PLAN
L-302	LAYOUT & GRADING PLAN
L-303	LAYOUT & GRADING PLAN
L-401	SEEDING PLAN
L-402	SEEDING PLAN
L-403	SEEDING PLAN
L-901	LANDSCAPE DETAILS
L-902	LANDSCAPE DETAILS
L-903	LANDSCAPE DETAILS
L-904	LANDSCAPE DETAILS

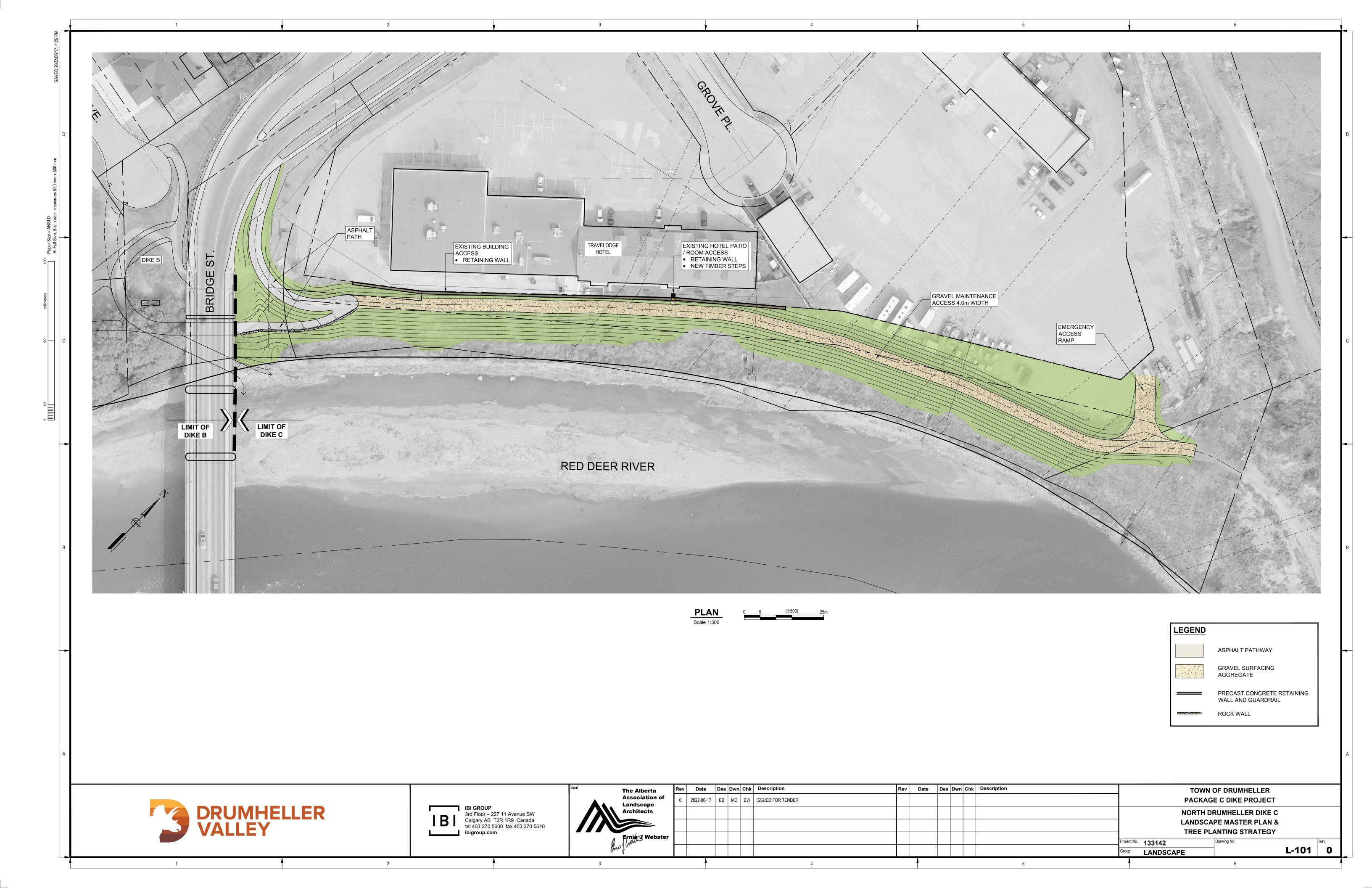


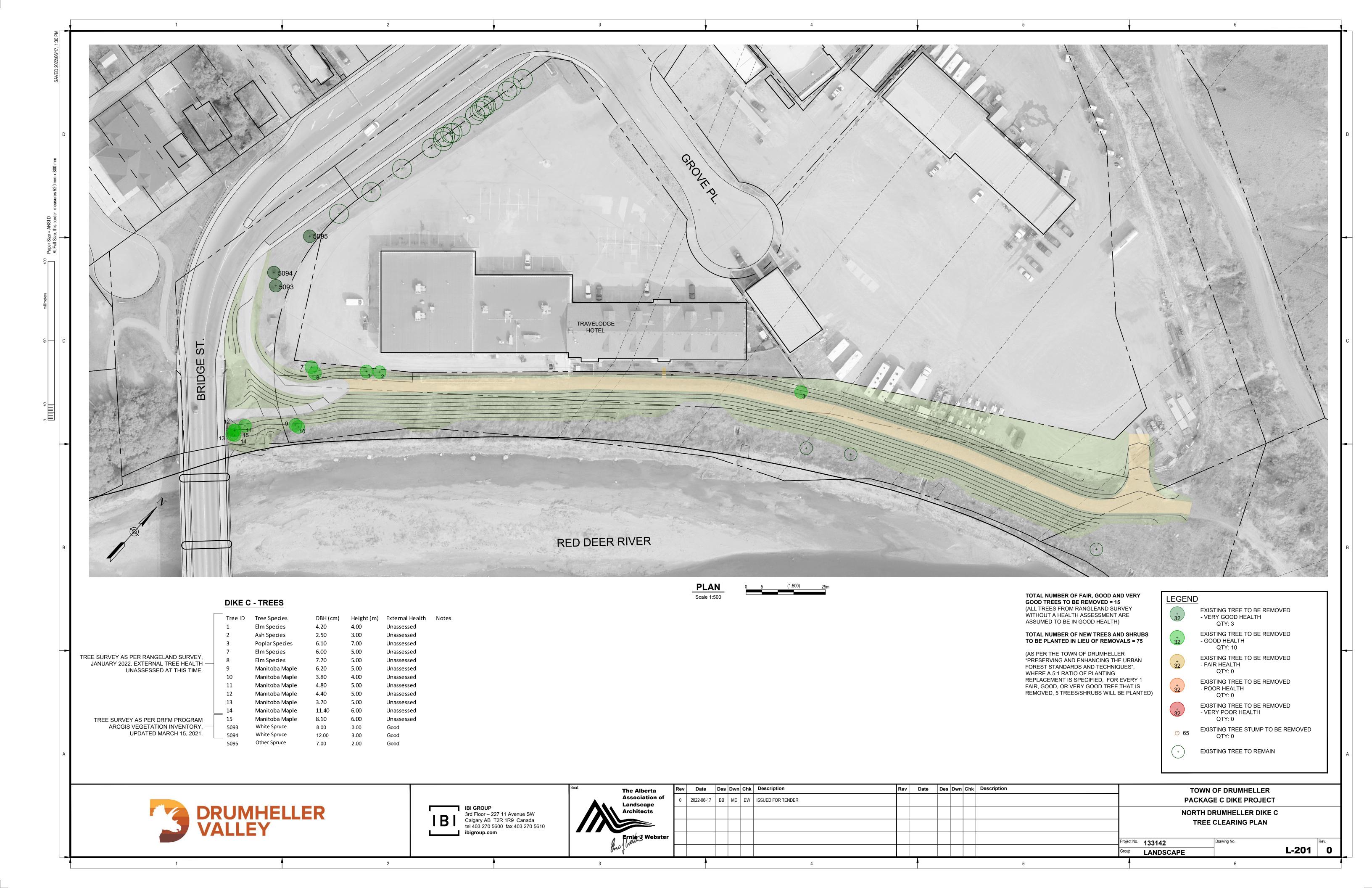


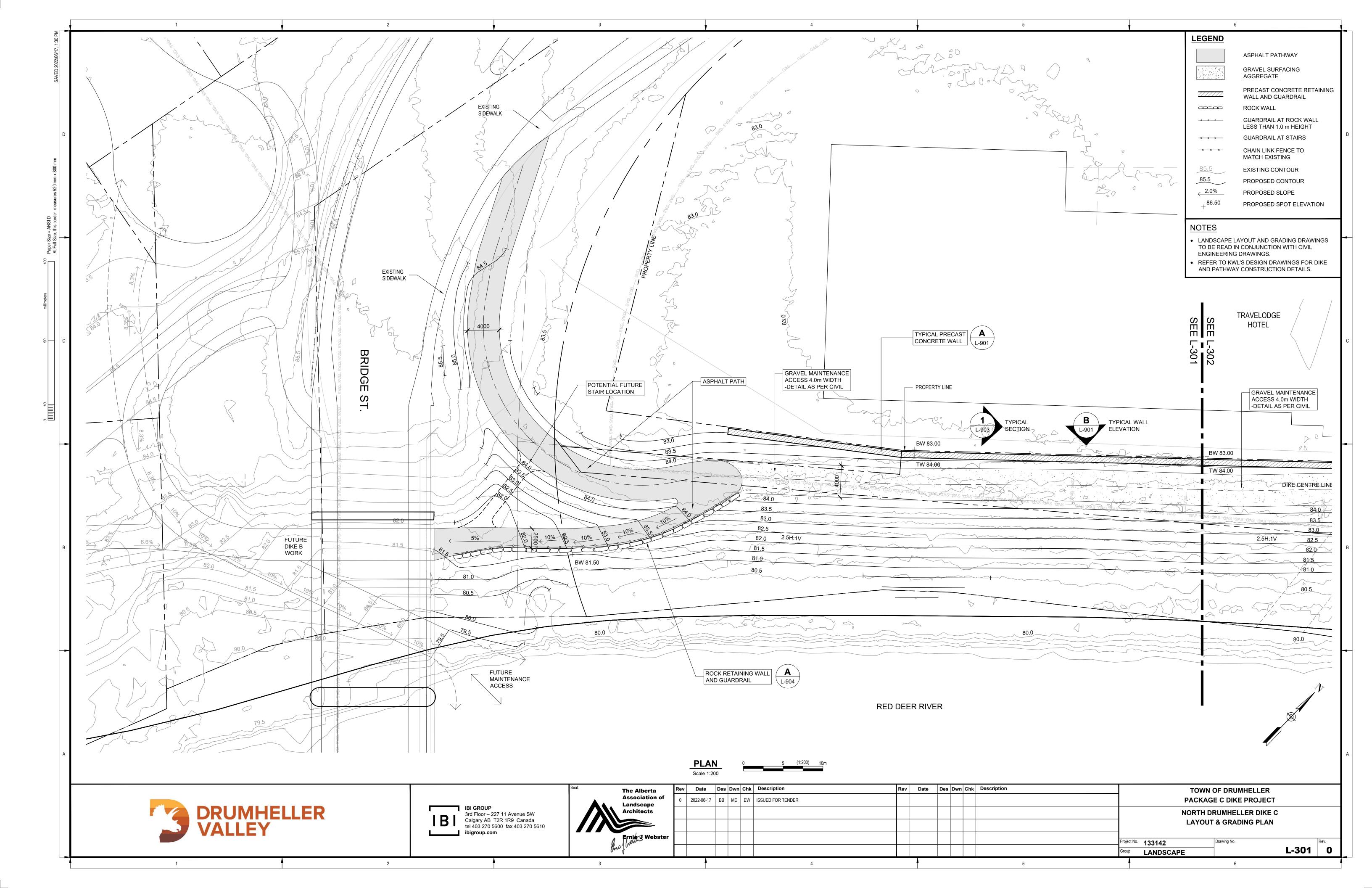


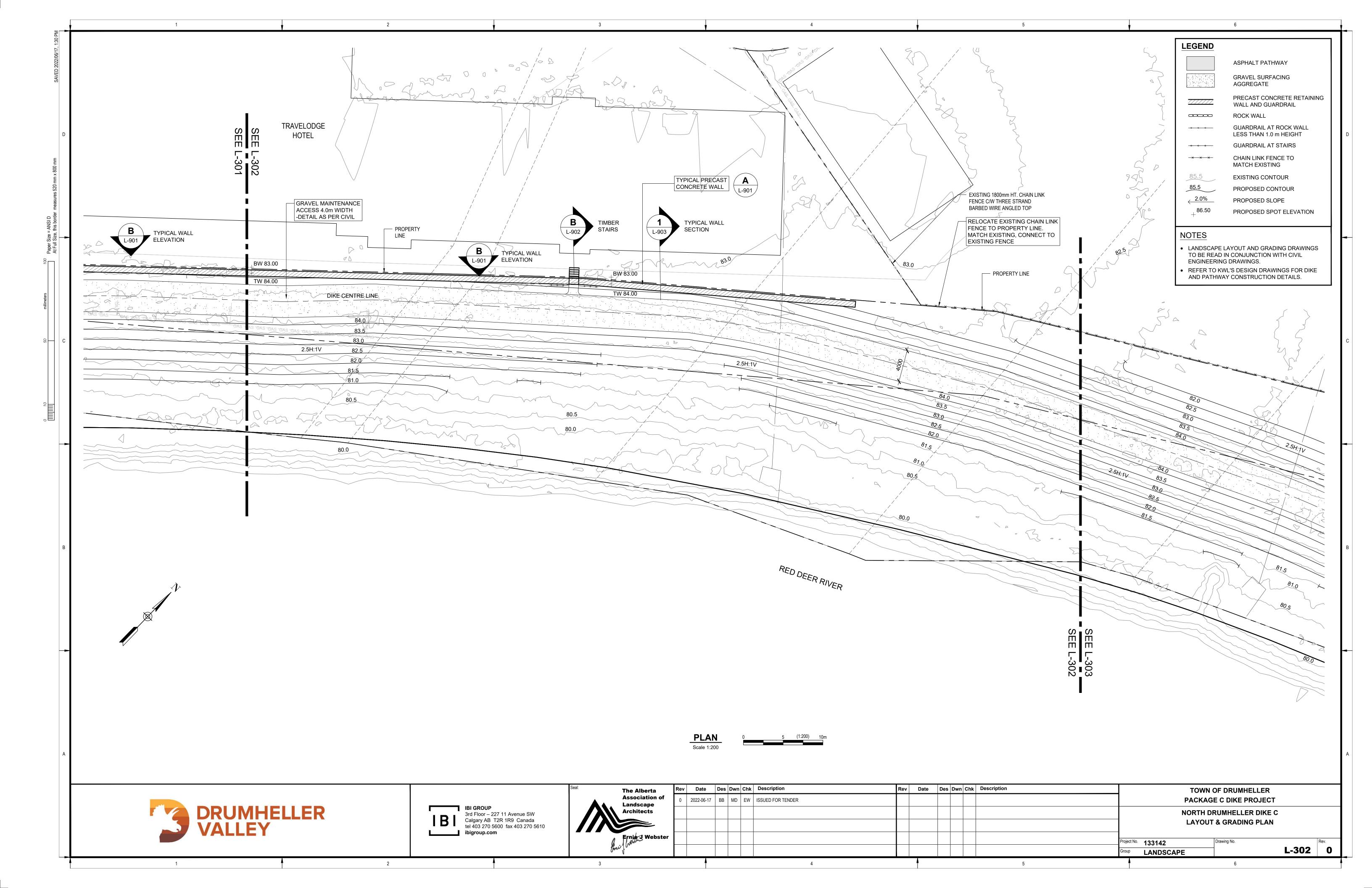


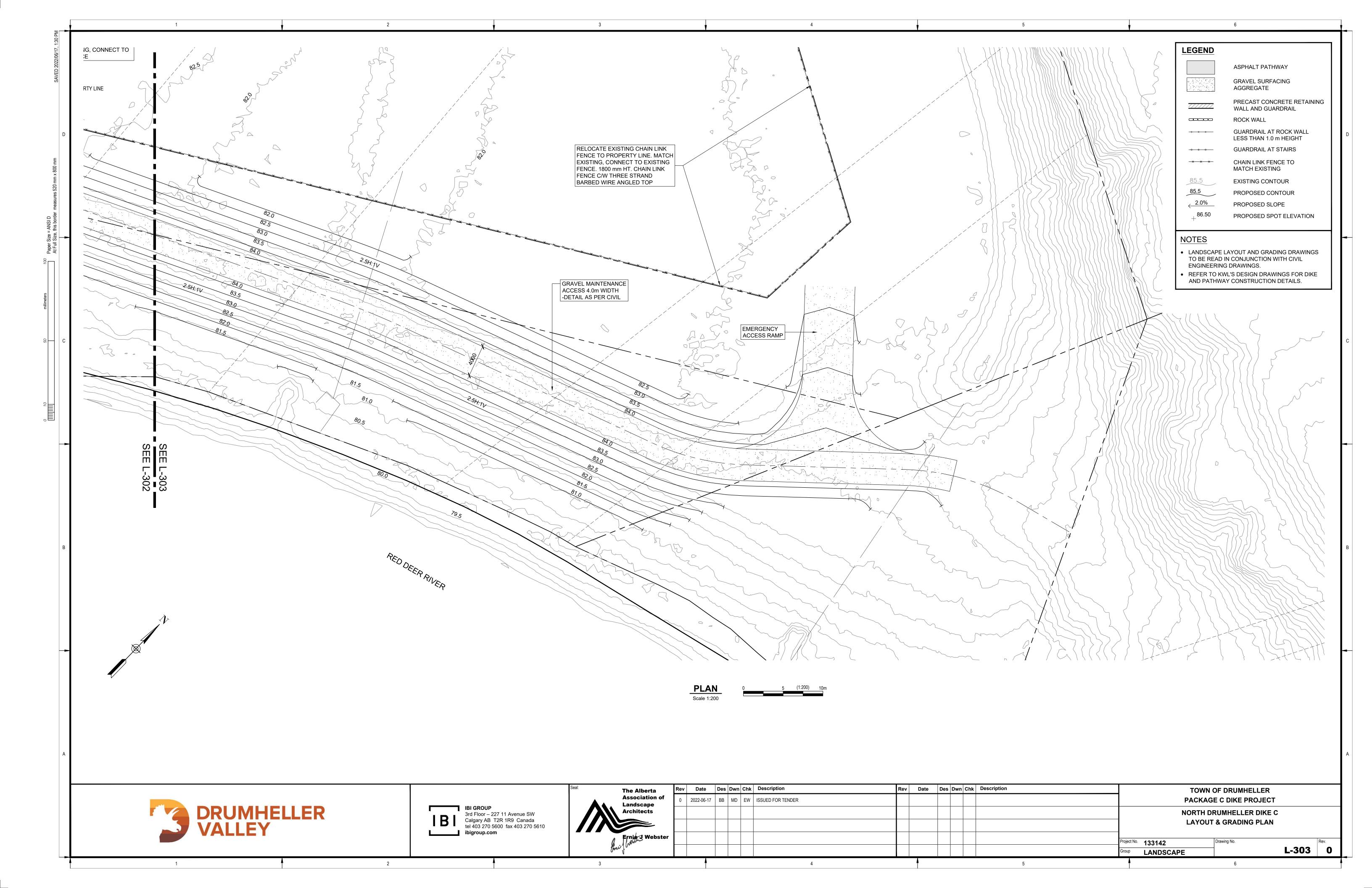
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is border measures 520

Paper Size = AN'

LEGEND

EXISTING TREE TO REMAIN

SEED MIX 2A UPLAND AREAS (WET SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL

SEED MIX 2B UPLAND AREAS (DRY SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL

#### NOTES

- 1. ALL WORK SHALL COMPLY WITH TOWN OF DRUMHELLER VALLEY "PRESERVING & ENHANCING THE URBAN FOREST: STANDARDS & TECHNIQUES"
- 2. ALL UTILITIES MUST BE INSTALLED/LOCATED PRIOR TO PLANTING ANY EXCAVATION. (SEE CIVIL ENGINEERING DRAWINGS)

## Seed Mix 2A - Upland Areas: Wet side slopes of dike, not likely susceptible to inundation - Application rate of 58 kg / ha.

BOTANICAL NAME	COMMON NAME	TARGET COVER	% OF SEED MIX (PLS)	Kg REQUIRED (PLS)
Elymus lanceolatus / Agropyron dasystachyum	Northern Wheatgrass	15%	16%	9.30
Pascopyrum smithii / Agropyron smithii	Western Wheatgrass	20%	30%	17.36
Elymus trachycaulus / Agropyron trachycaulum var.	Slender Wheatgrass	10%	10%	5.97
Bouteloua gracilis	Blue Grama	10%	2%	0.88
Elymus canadensis	Canada Wildrye	10%	14%	8.30
Nassella viridula / Stipa viridula	Green Needlegrass	25%	27%	15.82
Koeleria macrantha	Junegrass	10%	1%	0.58

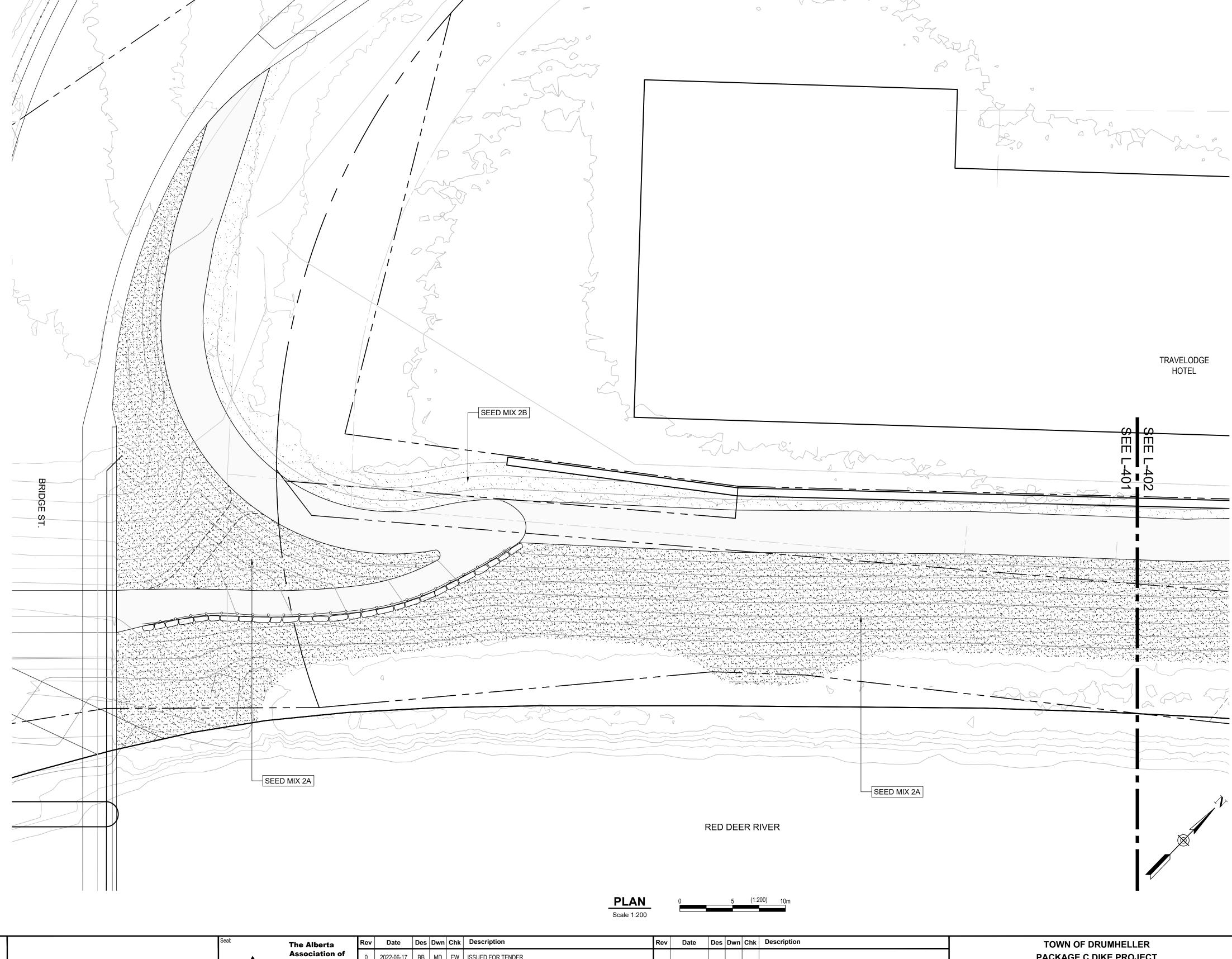
Cover crop for Seed Mix 2A – Upland Areas: Annual Ryegrass - application rate of 5 kg / ha.

**Seed Mix 2B** - Upland Areas with low erosion and low risk of washout - Reinstall native topsoil materials and add crop of Lolium multiflorum (Annual Ryegrass) at 10 kg / ha for areas outlined on drawings.

#### **SEEDING NOTES**

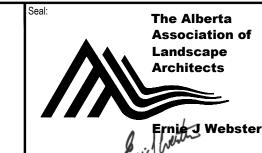
- 1. ENSURE SEED MIXTURE IS FREE OF ANY WEED SEEDS LISTED AS "PROHIBITED NOXIOUS" OR "NOXIOUS" UNDER THE WEED CONTROL ACT AND SEEDS OF OTHER SPECIES THAT WILL INTERFERE WITH THE GROWTH OF THE SPECIFIED SEED
- 2. SOW AT THE RATE INDICATED WITH SEED MIXES, DURING CALM WEATHER AND WHEN SOIL MOISTURE CONTENT IS ADEQUATE FOR GERMINATION.
- 3. FOR SLOPES 2:1 OR FLATTER AREAS TO BE SEEDED THAT ARE EASILY ACCESSIBLE APPLY SEED USING A MECHANICAL DRY SPREAD "BRILLION" SEEDER THAT PLACES SEED AT SPECIFIED DEPTH AND RATE AND ROLLS IN A SINGLE OPERATION.
- FOR STEEPER THAN 2:1 SLOPES OR SLOPES THAT ARE NOT EASILY ACCESSIBLE USE MANUALLY OPERATED BROADCAST SEEDER.
   SOW SEED IN TWO DIRECTIONS. 50% OF SEED IN ONE DIRECTION AND REMAINING
- 5. SOW SEED IN TWO DIRECTIONS, 50% OF SEED IN ONE DIRECTION AND REMAINING 50% OF SEED AT RIGHT ANGLES TO FIRST SEEDING PATTERN, USING SAME METHOD OF SEEDING.
- 6. COVER BROADCASTED SEED BY HAND RAKING AND ATV HARROWING-IN.
- 7. OPTIMAL SEEDING PERIODS FOR NATIVE GRASSES:
  - 7.1. MID TO LATE MAY, EARLY JUNE NO LATER THAN JUNE 15TH.
  - 7.2. LATE SEPTEMBER AFTER FIRST HARD FROST WHEN PLANTS GO DORMANT.
    DO NOT SEED NEAR END OF SEASON UNTIL THE RISK OF SEED GERMINATION
    IS LOW. SEED THAT GERMINATES AND DOES NOT FULLY ESTABLISH PRIOR TO
    END OF GROWING SEASON WILL LIKELY NOT OVERWINTER.
- 8. WATER THE SEEDED AREAS AFTER SEEDING TO ACHIEVE GERMINATION AND A UNIFORM STAND OF GRASS. THE OWNER WILL DETERMINE THE WATERING SCHEDULE AND WILL PROVIDE THE CONTRACTOR WITH AT LEAST 24 HOURS
- ADVANCE NOTICE TO COMMENCE WATERING SEEDED AREAS.

  9. APPLY WATER UNIFORMLY TO SEEDED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS AND TOPSOIL.
- 10. MINIMIZE TRAVEL ON SEEDED SURFACES.
- 11. USE WATERING EQUIPMENT AND TECHNIQUES AUTHORIZED BY THE OWNER.

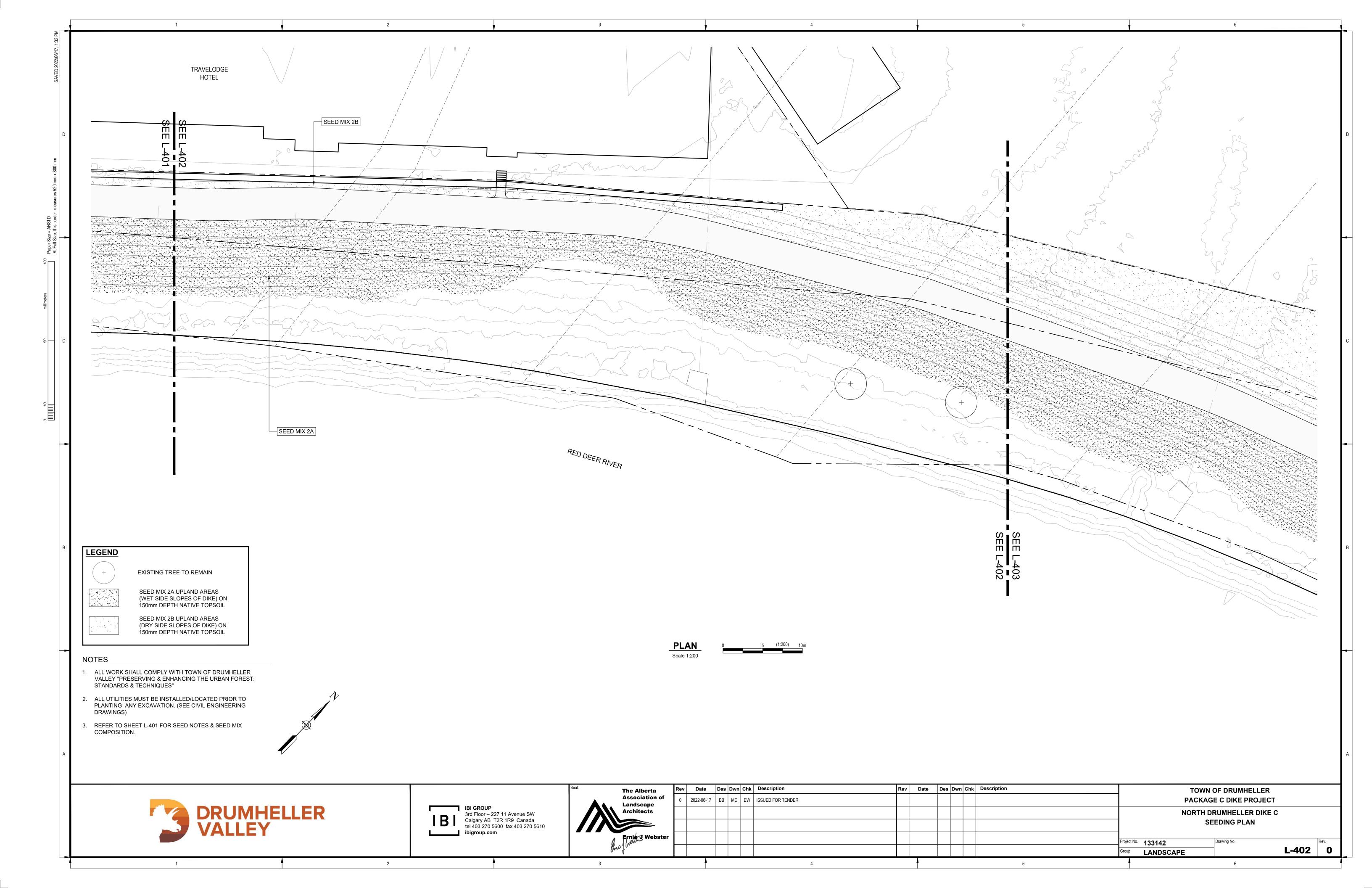


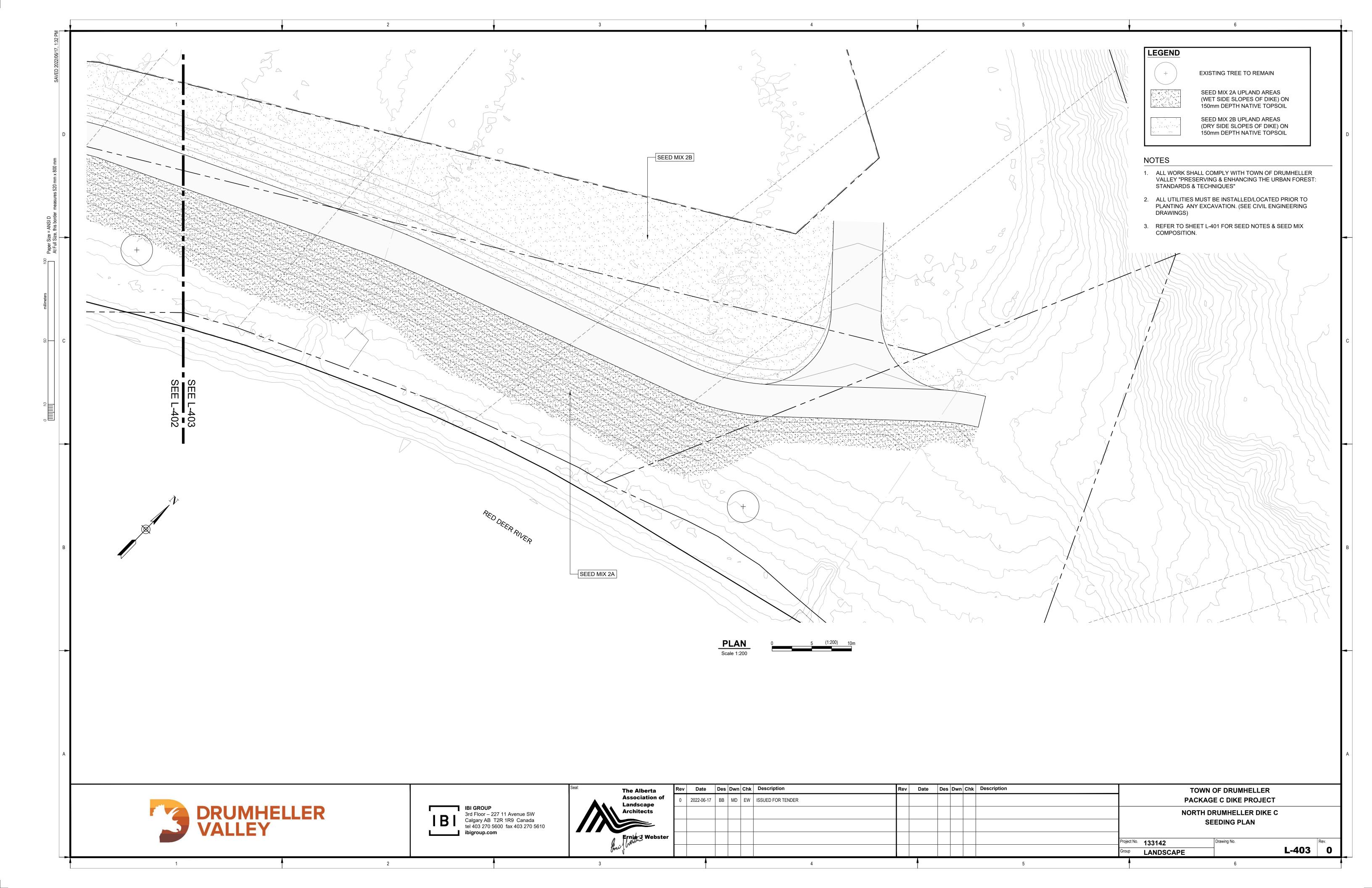


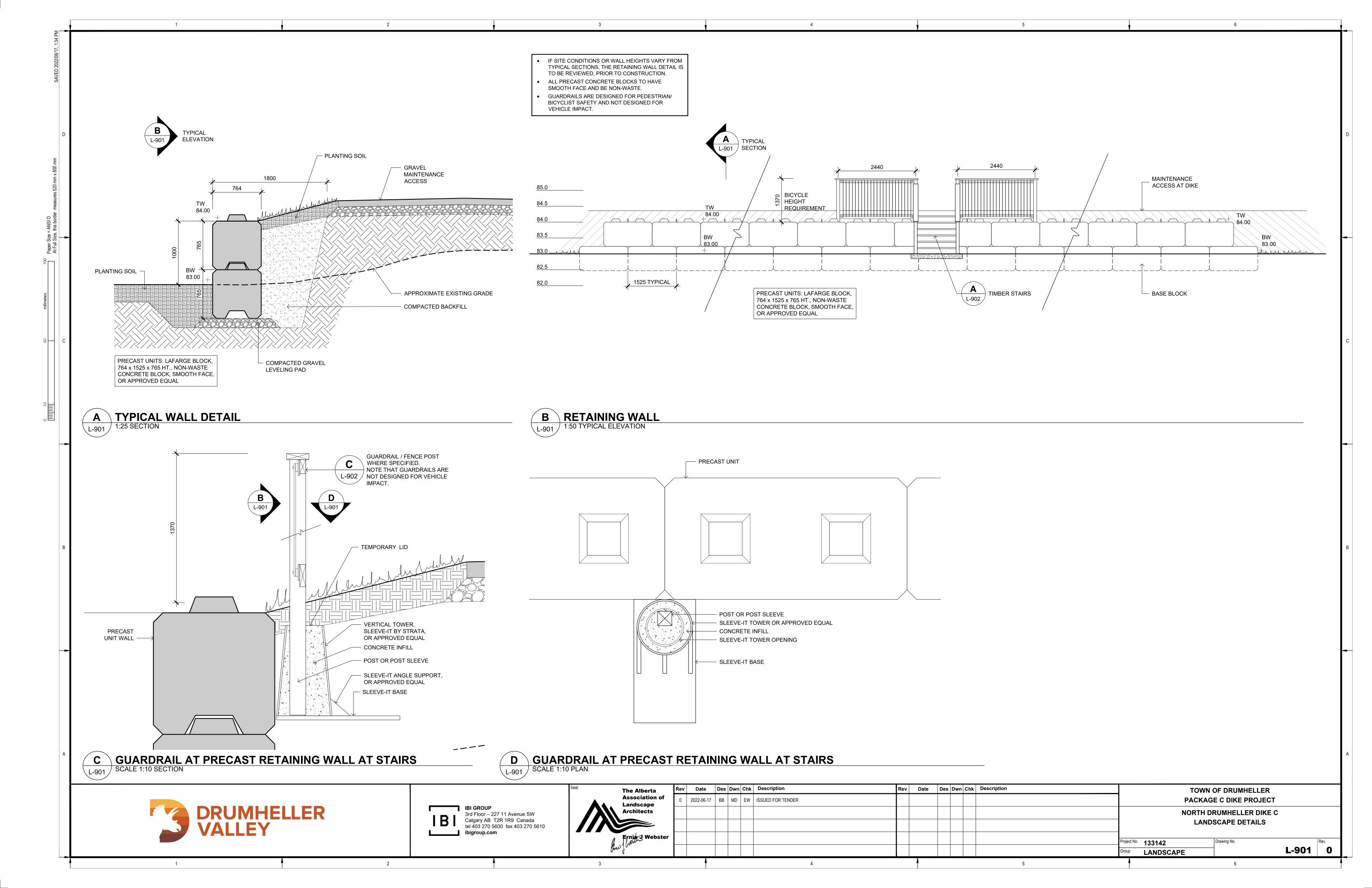


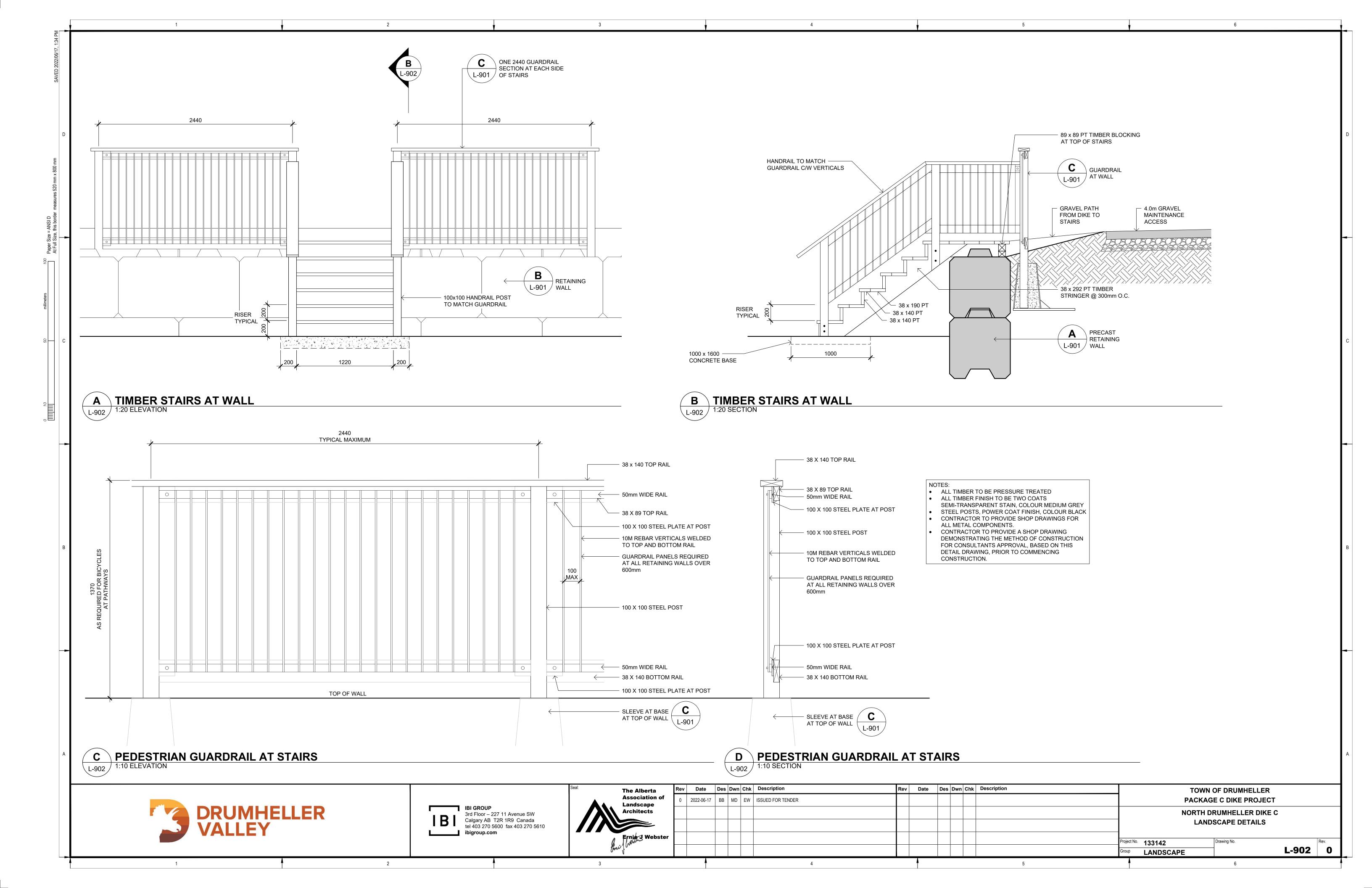


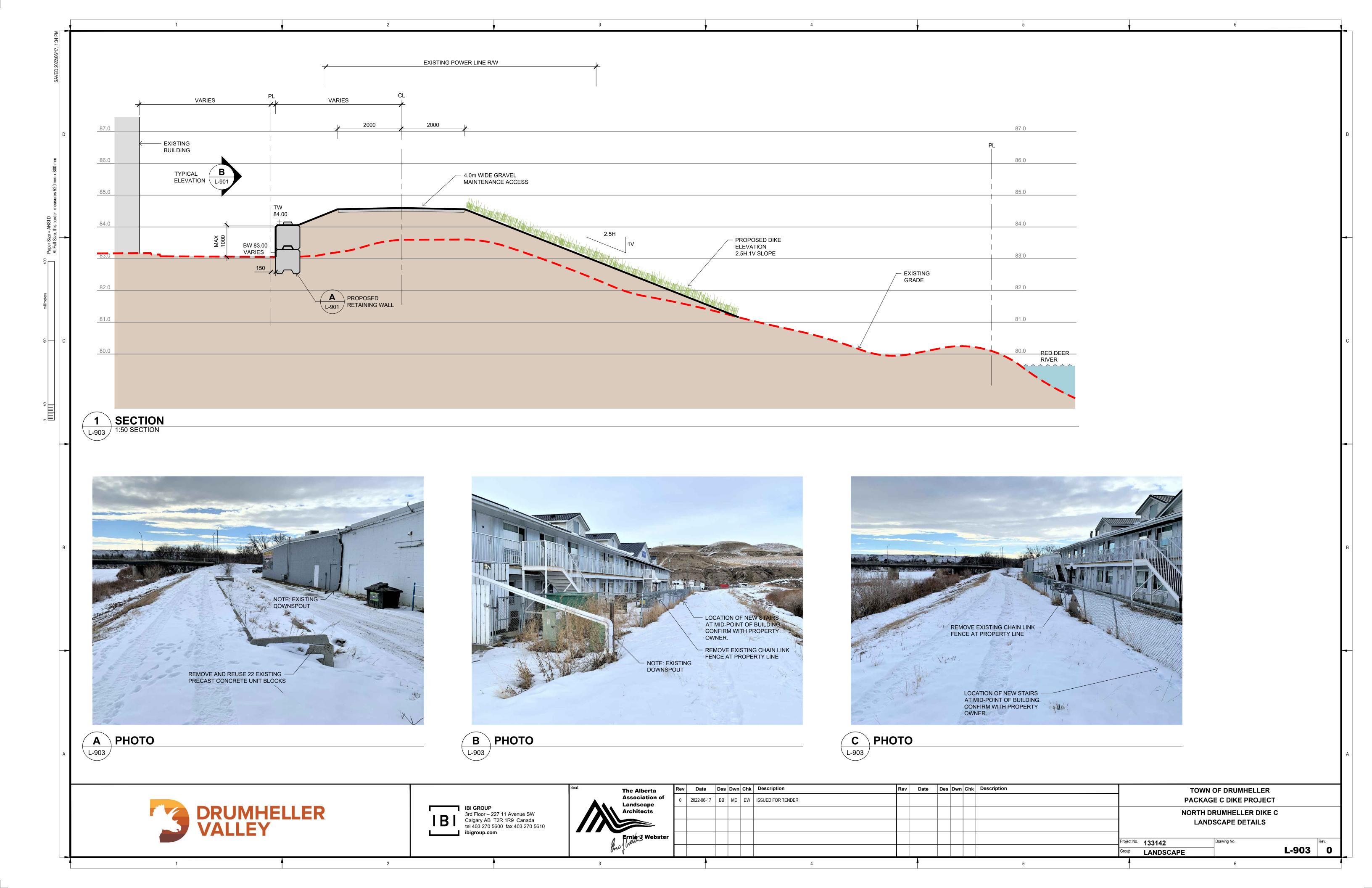
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												Project No.	133142	Drawing No.		Rev.
												Group	LANDSCAPE		L-401	0
		<b>A</b>				Д.		<b>A</b>			5	<b>A</b>		6		

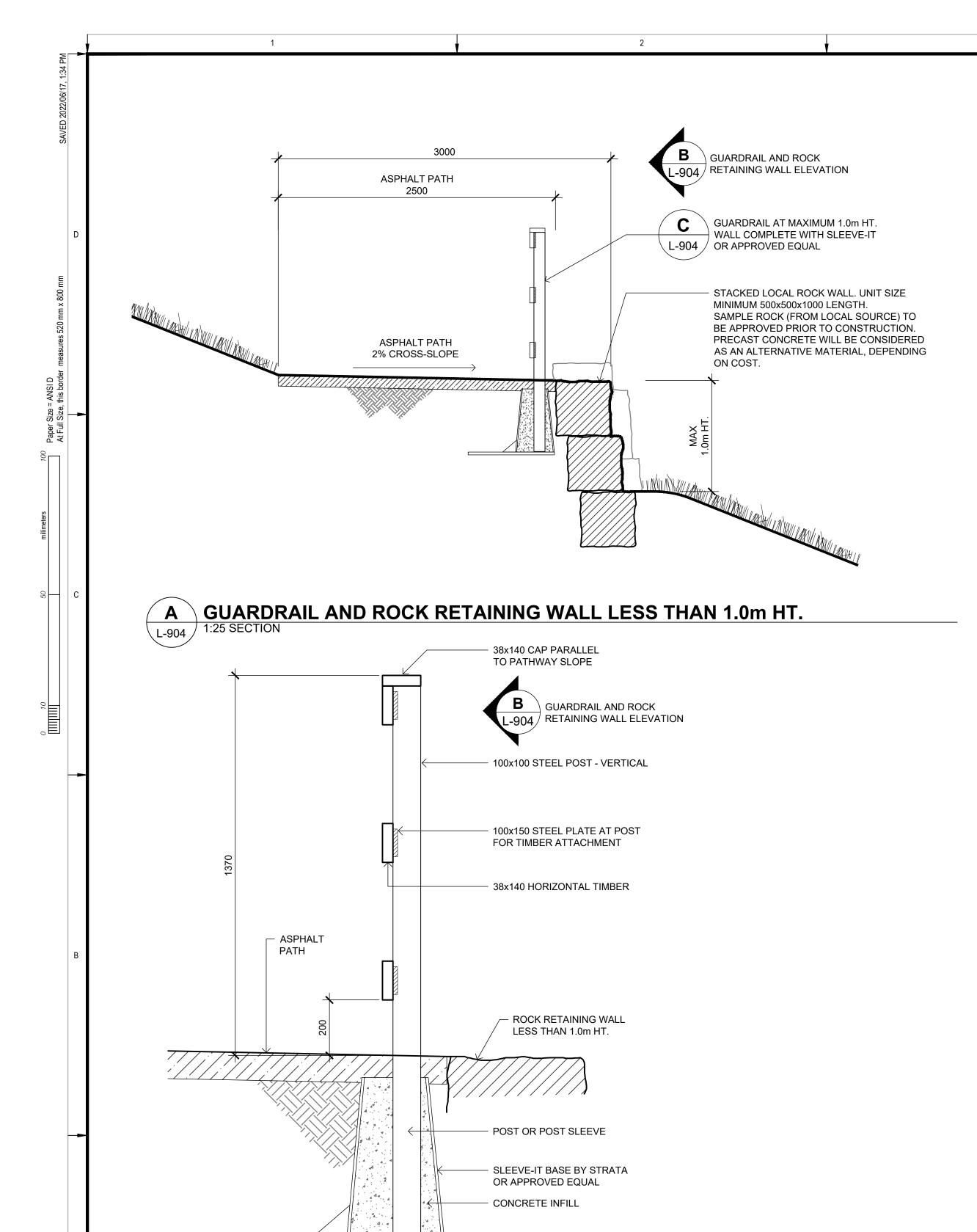












A RETAINING WALL

MAXIMUM 2440 SPACING AT POSTS

GUARDRAIL PARALLEL TO PATHWAY SLOPE

38x88 VERTICAL SPACER

PATHWAY SLOPE
AS PER PLAN

FOR THE PATHWAY SLOPE
AS PER PLAN

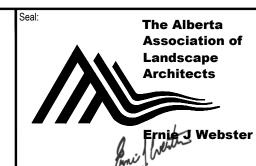
B GUARDRAIL AND ROCK RETAINING WALL LESS THAN 1.0m HT.

1:25 ELEVATION

C GUARDRAIL AT WALL LESS THAN 1.0m HT.
1:10 SECTION







ev	Date	Des	Dwn	Chk	Description	Rev	Date	Des Dv	/n Cł	Chk Description		ТО	WN OF DRUMHELLER		
0 2	2022-06-17	ВВ	MD	EW	ISSUED FOR TENDER							PAC	KAGE C DIKE PROJECT		
												NOR1	TH DRUMHELLER DIKE C		
												L	ANDSCAPE DETAILS		
										Pro	oject No.	133142	Drawing No.		Rev.
										Gr	roup	LANDSCAPE		L-904	0
	0 :				<del>                                     </del>	Date         Des         Dwn         Chk         Description           0         2022-06-17         BB         MD         EW         ISSUED FOR TENDER           1         I         I         I         I         I           2         I         I         I         I         I           3         I         I         I         I         I           4         I         I         I         I         I					0 2022-06-17 BB MD EW ISSUED FOR TENDER	0 2022-06-17 BB MD EW ISSUED FOR TENDER	0 2022-06-17 BB MD EW ISSUED FOR TENDER PAC NORT	Project No. 133142  PACKAGE C DIKE PROJECT  NORTH DRUMHELLER DIKE C LANDSCAPE DETAILS  Project No. 133142  Drawing No.	PACKAGE C DIKE PROJECT  NORTH DRUMHELLER DIKE C LANDSCAPE DETAILS  Project No. 133142  Drawing No.