

HUMBER STATION DISTRIBUTION CENTRE TOWN OF CALEDON

DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN SLR PROJECT NO.: 2008102



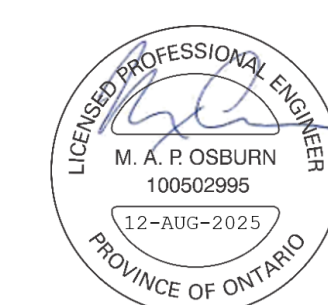
KEY MAP SCALE = 1 : 10,000

AERIAL IMAGERY RETRIEVED FROM GOOGLE EARTH

LIST OF DRAWINGS

SHEET NO.	DESCRIPTION	DRAWING NO.	DATE
00	COVER SHEET	--	2025/08/12
01	CONSTRUCTION NOTES (TYPICAL)	N-1	2025/08/12
02	SITE LAYOUT PLAN	SL-1	2025/08/12
03	PLAN AND PROFILE - RELOCATED WETLAND AREA A	PP-1	2025/08/12
04	PLAN AND PROFILE - REACH 3, SECTION 1	PP-2	2025/08/12
05	PLAN AND PROFILE - REACH 3, SECTION 2	PP-3	2025/08/12
06	PLAN AND PROFILE - REACH 3, SECTION 3	PP-4	2025/08/12
07	DESIGN WETLAND CROSS SECTIONS	XS-1	2025/08/12
08	DESIGN CHANNEL CROSS SECTIONS	XS-2	2025/08/12
09	CONSTRUCTION DETAILS	CD	2025/08/12

NOT FOR CONSTRUCTION



BACKGROUND INFORMATION NOTES

1. BACKGROUND INFORMATION AND EXISTING CONDITIONS PROVIDED BY CROZIER CONSULTING ENGINEERS ON JANUARY 28, 2025.
2. SURVEY INFORMATION PROVIDED BY CROZIER CONSULTING ENGINEERS ON JANUARY 28, 2025. HORIZONTAL DATUM CONTROL IS IN NAD 83 (CSRS) / UTM ZONE 17N.
3. AERIAL IMAGERY RETRIEVED FROM GOOGLE EARTH IMAGING ON FEBRUARY 4, 2025.
4. CONTOUR INTERVAL IS 0.25-1.00 METERS (SEE INDIVIDUAL SHEET NOTES).

GENERAL NOTES

1. THE NOTES ON THESE DRAWINGS APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE INDICATED ON THESE SETS OF PLANS.
2. THE STANDARD DRAWINGS OF THE TOWN OF CALEDON, REGION OF PEEL, THE TORONTO AND REGION CONSERVATION AUTHORITY AND THE ONTARIO MINISTRY OF TRANSPORTATION CONSTITUTE PART OF THIS SET OF PLANS AND SHALL BE THE REVISION IN EFFECT AS OF THE DATE OF APPROVAL OF THE CONSTRUCTION DRAWINGS.
3. ALL CONSTRUCTION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS".
4. THE CONTRACTORS ATTENTION IS DRAWN TO THE LIMITS OF THE WORK AREA. CONSTRUCTION ACTIVITY SHALL BE CONFINED TO PUBLIC PROPERTY AND/OR EXISTING EASEMENTS UNLESS OTHERWISE DIRECTED OR DETAILED IN THE CONTRACT DOCUMENTS.
5. INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN ON THIS SET OF PLANS IS FURNISHED AS THE BEST AVAILABLE INFORMATION AT THE TIME OF PREPARATION. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE/SHE SEES FIT WITH THE UNDERSTANDING THAT THE OWNER, THE CITY AND ENGINEER DISCLAIM ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY.
6. THE CONTRACTOR SHALL NOTE THAT THERE MAY BE OVERHEAD AND UNDERGROUND UTILITIES WHICH ARE NOT SHOWN ON THESE DRAWINGS. SOME, OR ALL OF THESE UTILITIES MAY REQUIRE SHIELDING OR OTHER APPROPRIATE FORM OF PROTECTION AS SPECIFIED BY THE RESPECTIVE UTILITY COMPANIES, OR ANY OTHER APPLICABLE LEGISLATION IN FORCE. CONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE NUMBER OF LOCATIONS OF THE OVERHEAD UTILITY CABLES. ANY UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE. THE COST OF THE SHIELDING WHERE REQUIRED SHALL BE DEEMED TO BE INCLUDED IN THE UNIT PRICES BID, WITH NO ADDITIONAL PAYMENT TO BE MADE THE CONTRACTOR.
7. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND HE/SHE REPORT ANY DISCREPANCIES TO THE CITY IMMEDIATELY. DETAILS ARE NOT TO BE SCALED FROM THE DRAWINGS. ALL DIMENSIONS ARE SHOWN IN METRES UNLESS OTHERWISE NOTED.
8. CLEARING OF ANY EXISTING VEGETATION OTHER THAN THAT DETAILED ON THE CONTRACT DRAWINGS, SHALL NOT BE UNDERTAKEN WITHOUT SPECIFIC WRITTEN DIRECTION BY THE CONTRACT ADMINISTRATOR. VERTICAL TRENCHING, HAND TRENCHING, AUGERING AND IMMEDIATE BACKFILLING OF ANY TRENCH SHALL BE UNDERTAKEN BY THE CONTRACTOR AS NECESSARY TO ENSURE THAT ALL REASONABLE PRECAUTIONS ARE TAKEN TO PROMOTE THE SURVIVAL OF ANY EXISTING VEGETATION. ALL AREAS DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION OF THE WORKS SHOWN HEREIN SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 100MM OF APPROVED TOPSOIL AND SOD TO ESTABLISH A GRASS COVER, UNLESS OTHERWISE NOTED ON THE PLANS, TO THE SATISFACTION OF THE TOWN OF CALEDON.
9. VEHICULAR TRAFFIC AND ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES DURING THE WORK. SHOULD ACCESS TO ANY DRIVEWAYS BE TEMPORARILY CUT-OFF, THE CONTRACTOR SHALL NOTIFY THE RESIDENT OR BUSINESS OWNERS A MINIMUM OF 48 HOURS IN ADVANCE AND ENSURE THAT THE DRIVEWAY OWNERS A MINIMUM OF 48 HOURS IN ADVANCE AND ENSURE THAT THE DRIVEWAY A MINIMUM OF 48 HOURS IN ADVANCE AND ENSURE THAT THE DRIVEWAY ACCESS IS RESTORED AS QUICKLY AS POSSIBLE. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CITY PRIOR TO START OF CONSTRUCTION.
10. APPROVED FILL MATERIAL SHALL BE COMPACTED TO A DRY DENSITY AS PER THE SPECIFICATIONS. COMPACTION TESTING SHALL BE CONDUCTED BY A QUALIFIED SOIL ENGINEER TO ENSURE COMPACTION AND STABILITY OF THE FILL AND TEST RESULTS SHALL BE SUBMITTED TO THE TOWN OF CALEDON, THE CONTRACTOR AND THE CONSULTANT. ANY APPROVED FILL MATERIAL BROUGHT ON SITE SHALL BE CERTIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER AND SHALL INCLUDE AN ENVIRONMENTAL ANALYSIS REPORT FOR METALS AND INORGANIC PARAMETERS.
11. ANY TEMPORARY MODIFICATIONS TO PATH CORNERS TO BE APPROVED BY THE CONTRACT ADMINISTRATOR AND TO BE RESTORED TO EXISTING CONDITIONS OR BETTER POST CONSTRUCTION.

EROSION AND SEDIMENT CONTROL (TRCA STANDARD) NOTES

SECTION 1: SITE MANAGEMENT

1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
2. DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
3. ALL IN-WATER AND NEAR WATER WORKS WILL BE CONDUCTED IN THE DRY WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
4. 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 MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
5. AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS IMMEDIATELY AFTER INSTALLATION. INSPECTION OF ESC MEASURES TO BE WILL OCCUR, AT MINIMUM:
- ON A WEEKLY BASIS;
 - PRIOR TO SIGNIFICANT RAINFALL EVENTS (MINIMUM PREDICTED 25mm OVER 24 HOURS);
 - AFTER EVERY RAINFALL / SNOWMELT EVENT; AND
 - DAILY DURING EXTENDED RAINFALL PERIODS.
- INSPECTIONS WILL FOCUS ON MEASURES RELATED TO EROSION AND SEDIMENT CONTROLS, DEWATERING OR UNWATERING, RESTORATION AND IN - OR NEAR - WATER WORKS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR WILL CONTACT THE TRCA ENFORCEMENT OFFICER AS WELL AS THE PROPONENT.
6. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30 METRES FROM THE WATER.
7. ALL GRADES WITHIN THE REGULATORY FLOOD PLAIN WILL BE MAINTAINED OR MATCHED.
8. THE PROPONENT/CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE REGIONAL STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
9. ALL DEWATERING/UNWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
10. ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.
11. THE CONTRACTOR SHALL INSTALL SEDIMENT CONTROL FENCING, AS REQUIRED TO CONTROL THE DISCHARGE OF EXPOSED SOIL OR TEMPORARY PILE(S) OF EXCAVATED SOILS OR, SOILS AND GRANULAR MATERIAL TO BE USED DURING CONSTRUCTION. WHERE POSSIBLE BIODEGRADABLE ALTERNATIVES TO SILT FENCING SHOULD BE CONSIDERED. REUSABLE FENCE SUCH AS FAST FENCE SHOULD BE USED TO ISOLATE THE WORK AREA WHEN SEDIMENT CONTROL FENCING IS NOT REQUIRED.
12. EROSION AND SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE AND IN WORKING ORDER UNTIL ALL ON-SITE CONSTRUCTION IS COMPLETED AND VEGETATION IS RE-ESTABLISHED.
13. AREAS WHICH REMAIN DISTURBED FOR MORE THAN 30 DAYS SHALL BE STABILIZED USING SEED OR APPROVED EROSION CONTROL BLANKET OR SIMILAR. IF CONDITIONS AREN'T SUITABLE FOR SEED APPLICATION AN EROSION CONTROL MATTING WILL BE USED IN ITS PLACE.
14. ALL SLOPES SHALL BE STABILIZED USING MEASURES SUCH AS EROSION CONTROL BLANKET AS PER OPSS 804 OR APPROVED EQUIVALENT. NO EROSION AND CONTROL MEASURE SHALL HAVE ANY PLASTIC, EVEN IF IT IS BIODEGRADABLE.
15. PUBLIC WALKWAYS AND MUNICIPAL ROADS ARE TO BE KEPT CLEAR OF EXCESS SEDIMENT.
16. THE CONTRACTOR MUST HAVE SUITABLE PUMPING CAPABILITIES ON SITE AT ALL TIMES TO FACILITATE CONSTRUCTION ACTIVITIES IN THE DRY.
17. WHERE PRACTICAL, WORKS SHOULD BE COMPLETED IN STAGES TO REDUCE THE DURATION OF SOIL EXPOSURE WITHIN DISTURBED AREAS.
18. CONTRACTOR IS NOT TO DISPOSE OF ANY OF THE MATERIAL USED IN THE PEA GRAVEL METRE BAGS INTO THE CHANNEL OR SURROUNDING AREA. ALL PEA GRAVEL BAGS ARE TO BE REMOVED OFF OF SITE.
19. TEMPORARY STAGING AREAS WILL BE SITUATED WITHIN 15 METRES OF THE WATERCOURSE DUE TO THE CONFINED NATURE OF THE PROJECT AREA. ALL MAJOR/OVERNIGHT STAGING/STOCKPILING AREAS WILL BE A MINIMUM OF 15m AWAY FROM THE WATERCOURSE. THE CONTRACTOR TO MONITOR WEATHER FORECASTS TO ENSURE MACHINES AND MATERIALS ARE REMOVED WHEN THE INCLEMENT WEATHER IS ANTICIPATED. STOCKPILE HEIGHTS WILL BE KEPT BELOW 1.5 METRES IN HEIGHT.
20. REFER TO EROSION AND SEDIMENT CONTROL GUIDE FOR URBAN CONSTRUCTION, 2019 FOR FURTHER EROSION AND SEDIMENT CONTROL MEASURES APPROVED BY THE TRCA.

SECTION 2: CONSTRUCTION TIMING

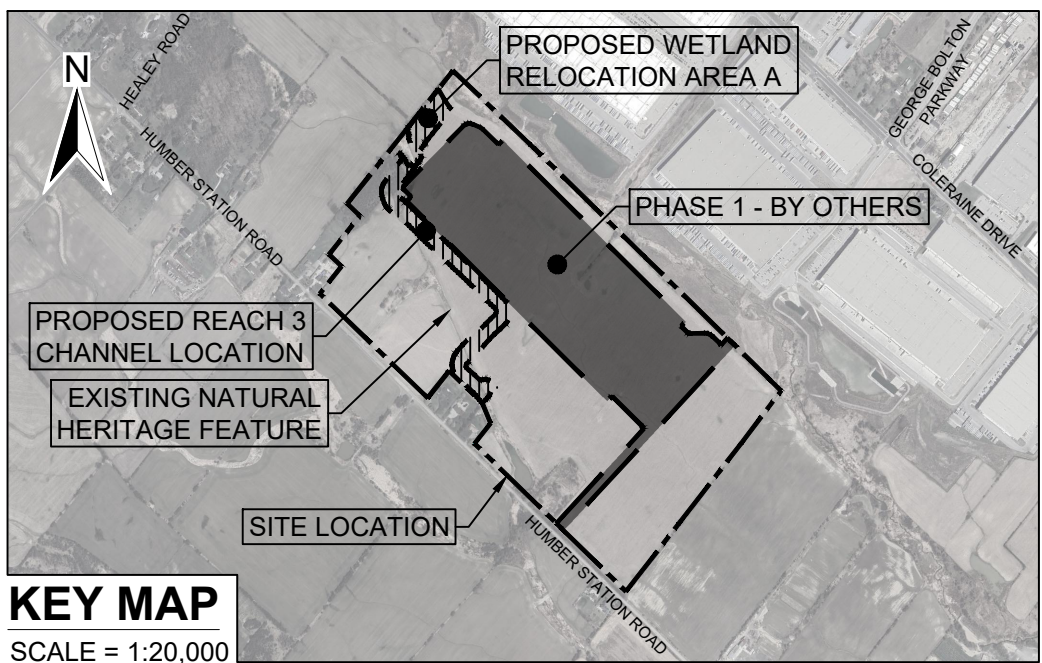
1. PRIOR TO SITE DISTURBANCE THE CONTRACTOR/PROPONENT SHOULD ENSURE THAT THE WORKS ARE IN CONFORMANCE WITH THE *MIGRATORY BIRDS CONVENTION ACT*. PLEASE NOTE THAT THE GENERAL BREEDING BIRD WINDOW FOR THIS AREA IS APRIL 1ST TO AUGUST 31ST, HOWEVER, BREEDING ACTIVITIES MIGHT INITIATE PRIOR TO AND CONTINUE PAST THIS PERIOD.
2. WHERE IMPACTS TO LOCAL FISH POPULATIONS MAY OCCUR DURING THEIR SPAWNING, NURSERY AND MIGRATORY PERIODS, CONSTRUCTION TIMING WINDOWS SHOULD APPLY TO IN-WATER OR NEAR-WATER ACTIVITIES. THE PROPONENT/CONTRACTOR SHOULD CONFIRM APPLICABILITY AND DATES WITH APPROPRIATE PROVINCIAL AND FEDERAL AGENCIES. TO PROTECT LOCAL FISH POPULATIONS DURING THEIR SPAWNING, NURSERY AND MIGRATORY PERIODS, IN-WATER/NEAR-WATER ACTIVITIES MAY ONLY OCCUR DURING THE FOLLOWING TIME PERIOD OF JULY 1ST TO MARCH 31ST.
3. ANY CONSTRUCTION WORK RELATED TO THE EXISTING HDF-3 FEATURE (AND BY EXTENSION ITS ASSOCIATED RIPARIAN WETLANDS), AS WELL AS THE PROPOSED WETLAND COMPENSATION AREA MAY ONLY OCCUR DURING THE FOLLOWING TIME PERIOD OF JULY 1ST TO SEPTEMBER 15TH.

SECTION 3: FISH AND WILDLIFE RELOCATION

1. FISH AND WILDLIFE STRANDED WITHIN THE WORK AREA SHALL BE CAPTURED AND RELEASED LIVE IN SUITABLE HABITAT UPSTREAM OF THE WORK AREA UNDER THE SUPERVISION OF QUALIFIED AQUATIC TECHNICAL STAFF. THE PROPONENT/CONTRACTOR SHOULD CONFIRM REQUIREMENTS DIRECTLY WITH MINISTRY OF NATURAL RESOURCES AND FORESTRY.

SECTION 4: ENVIRONMENTAL COMPLIANCE

1. PLEASE NOTIFY TRCA ENFORCEMENT OFFICER 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
2. AN ENVIRONMENTAL MONITOR WILL BE ON SITE, AND PROVIDE ADVICE, TO ENSURE THAT ACTIVITIES THAT COULD HAVE A NEGATIVE IMPACT TO THE NATURAL ENVIRONMENT ARE EFFECTIVELY MITIGATED AS CONSTRUCTION PROCEEDS. THE ENVIRONMENTAL MONITOR SHALL NOTIFY THE TRCA ENFORCEMENT OFFICER AND PROJECT MANAGER IF ISSUES ARISE.



KEY MAP
SCALE = 1:20,000

LEGEND

1	TR	MO	12/08/25	DETAILED DESIGN SUBMISSION
0	TR	MO	10/03/25	DRAFT DETAILED DESIGN
Revision	By	Chk'd By	dd/mm/yy Date	Comments



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Client:
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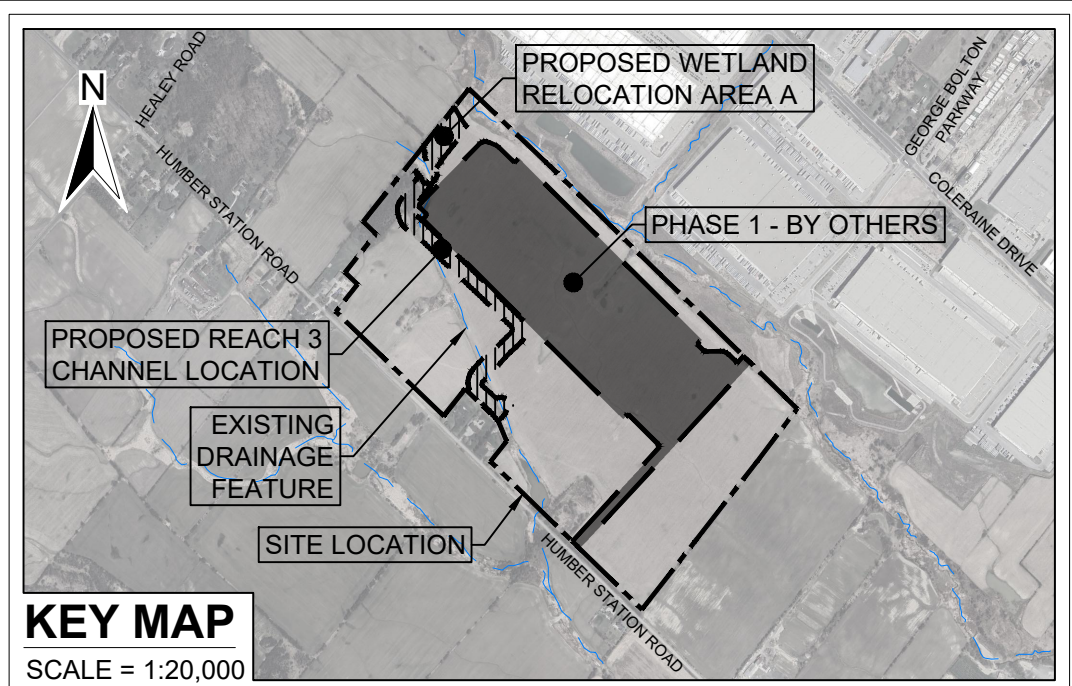
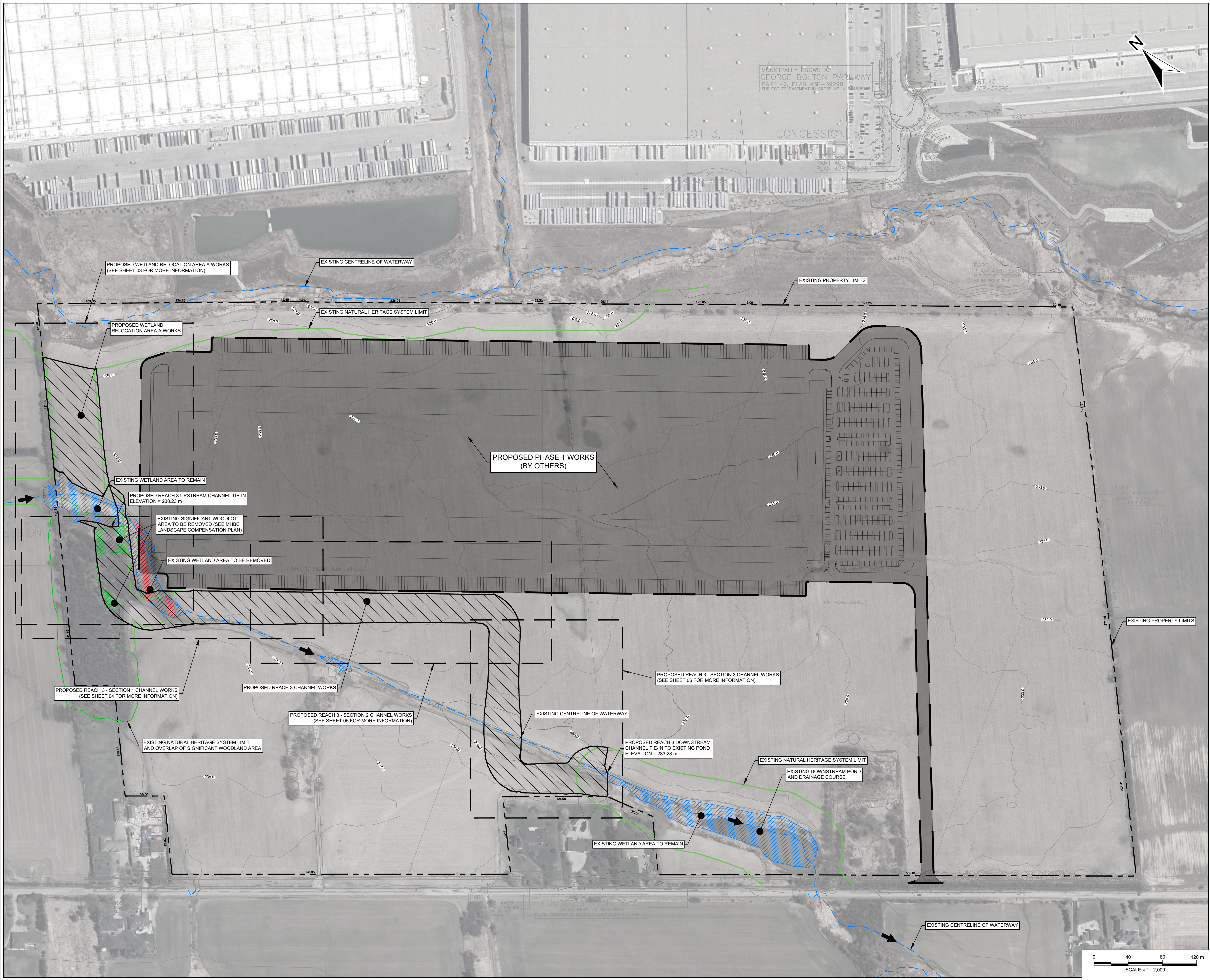
Project:
DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN

Drawing Title:
CONSTRUCTION NOTES (TYPICAL)

Scale:	N/A	Date:	MAR. 10, 2025	Drawing No.	N-1
Drawn by:	TR	Checked by:	MO	Sheet No.	
Designed by:	MO	Approved by:	RM		01

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TOWN OF CALEDON
PLANNING
RECEIVED
August 18, 2025

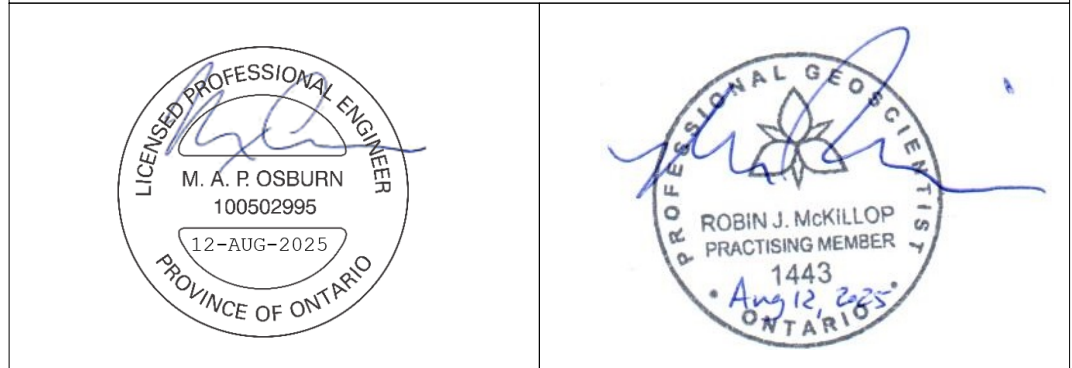


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 - 201.00 — EXISTING CONTOUR (MAJOR)
 - - - EXISTING SUBJECT PROPERTY BOUNDARY
 - - - EXISTING ADJACENT PROPERTY BOUNDARY
 - EXISTING NATURAL HERITAGE SYSTEM LIMIT
 - EXISTING SIGNIFICANT WOODLAND AREA
 - - - EXISTING CENTRELINE OF WATERWAY
 - [Blue Hatched] EXISTING WETLAND AREA
 - [Red Hatched] PROPOSED WETLAND AREA REMOVAL
 - [Green Hatched] PROPOSED SIG. WOODLOT AREA REMOVAL
 - [Black Hatched] PROPOSED PHASE 1 WORKS (BY OTHERS)
 - [Diagonal Hatched] PROPOSED CHANNEL AND WETLAND WORKS
 - - - PROPOSED LAYOUT AREAS

- NOTES**
- BACKGROUND INFORMATION AND EXISTING CONDITIONS PROVIDED BY CROZIER CONSULTING ENGINEERS ON JANUARY 28, 2025.
 - SURVEY INFORMATION PROVIDED BY CROZIER CONSULTING ENGINEERS ON JANUARY 28, 2025. HORIZONTAL DATUM CONTROL IS IN NAD 83 (CSRS) / UTM ZONE 17N.
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Revision	By	Chk'd By	Date	Comments
1	TR	MO	12/08/25	DETAILED DESIGN SUBMISSION
0	TR	MO	10/03/25	DRAFT DETAILED DESIGN

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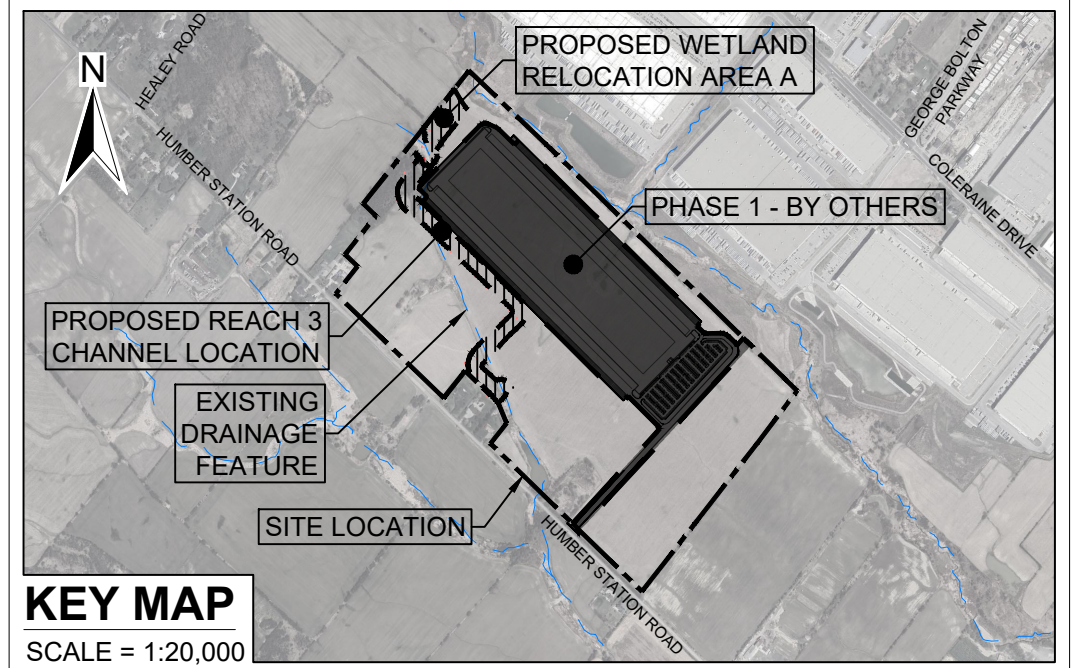
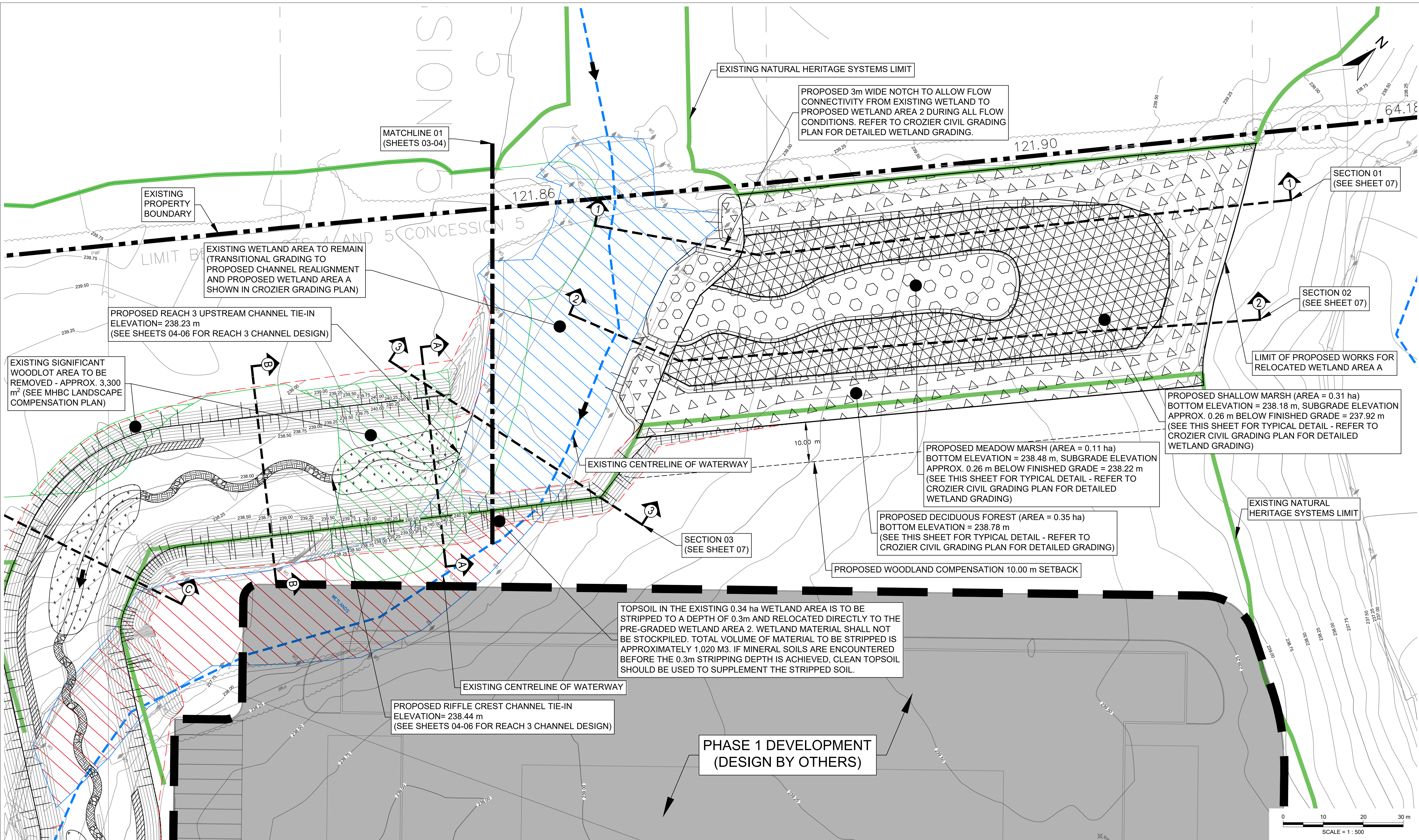
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Project: **DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN**

Drawing Title: **SITE LAYOUT PLAN**

Scale: 1:2,000	Date: MAR. 10, 2025	Drawing No. SL-1
Drawn by: TR	Checked by: MO	Sheet No. 02
Designed by: MO	Approved by: RM	

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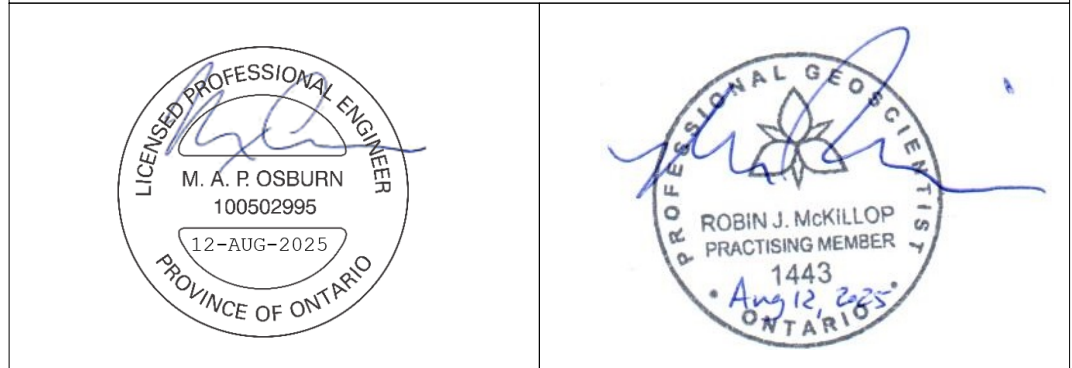
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 - PROPOSED WETLAND AREA REMOVAL
 - PROPOSED SIG. WOODLOT AREA REMOVAL
 - PROPOSED DECIDUOUS FOREST AREA
 - PROPOSED SHALLOW MARSH AREA
 - PROPOSED MEADOW MARSH AREA
 - PROPOSED CENTRELINE OF CHANNEL
 - PROPOSED RIFFLE STONE AREA
 - PROPOSED BED MATERIAL AREA
 - PROPOSED BRUSH LAYERING AREA
 - PROPOSED ONLINE/OFFLINE WETLAND AREA
 - PROPOSED GRADING CONTOURS
 - PROPOSED 3:1 GRADING AREA
 - PROPOSED PHASE 1 WORKS (BY OTHERS)

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Revision	By	Chk'd By	Date	Comments
1	TR	MO	12/08/25	DETAILED DESIGN SUBMISSION
0	TR	MO	10/03/25	DRAFT DETAILED DESIGN

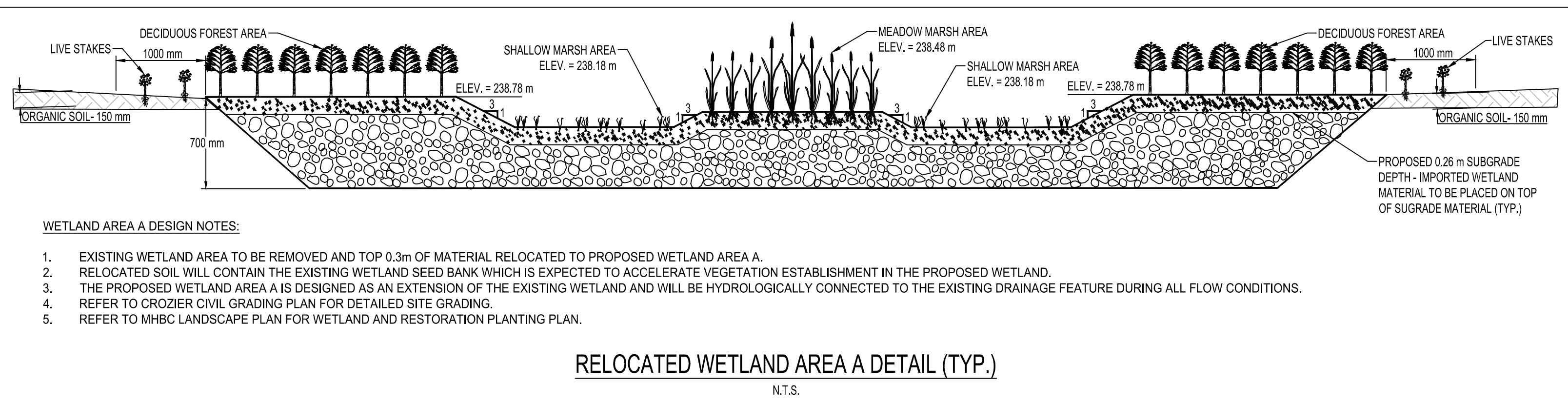
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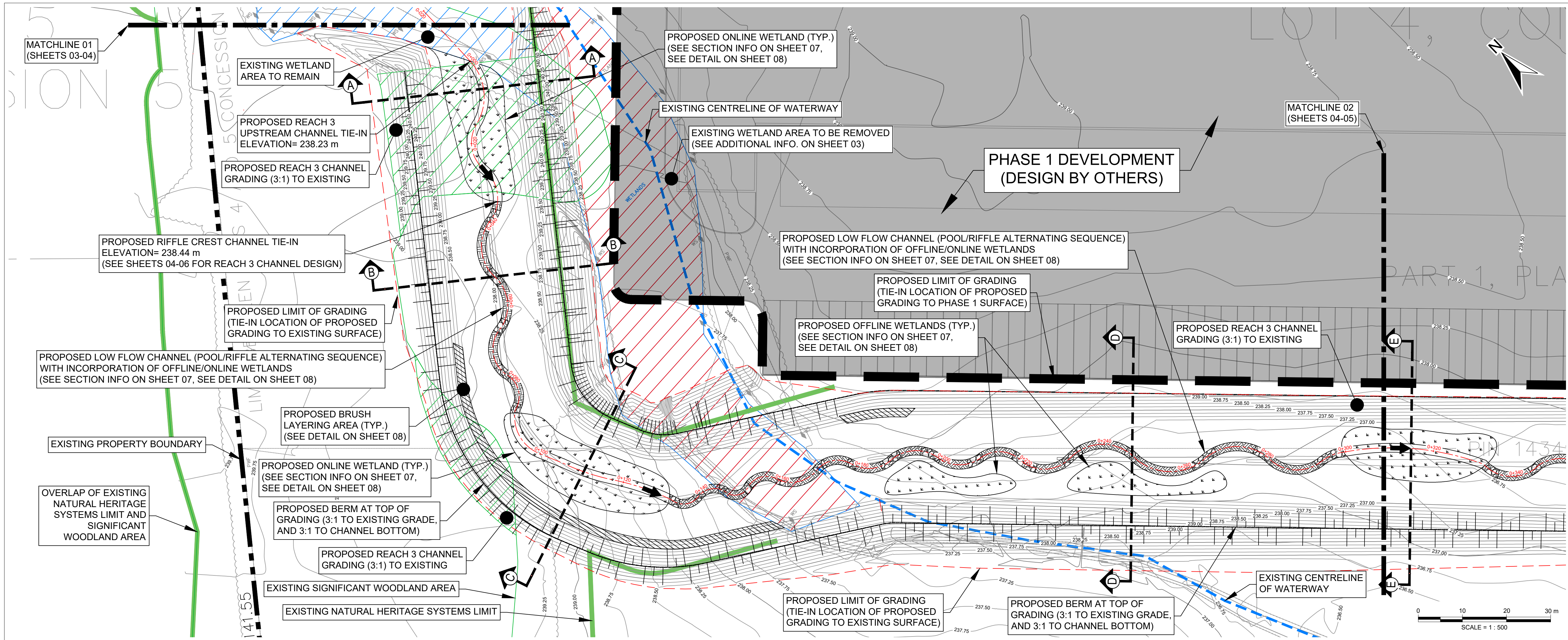


Client: PROLOGIS - HUMBER STATION			
Project: DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN			
Drawing Title: PLAN AND PROFILE RELOCATED WETLAND AREA A			
Scale:	1:500	Date:	MAR. 10, 2025
Drawn by:	TR	Checked by:	MO
Designed by:	MO	Approved by:	RM
Drawing No.		PP-1	
Sheet No.		03	

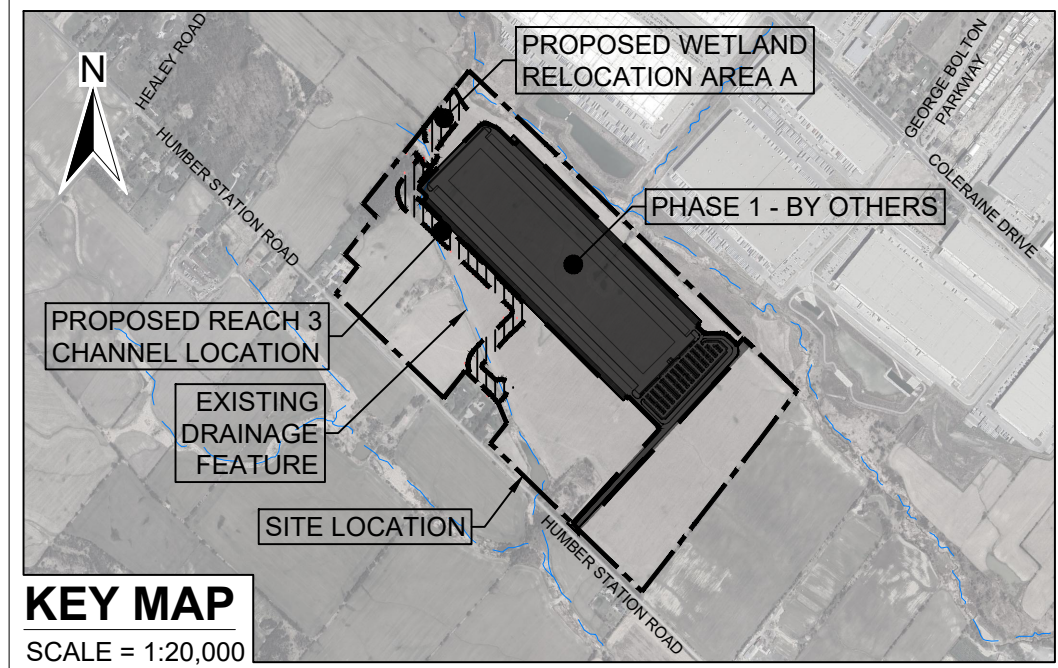
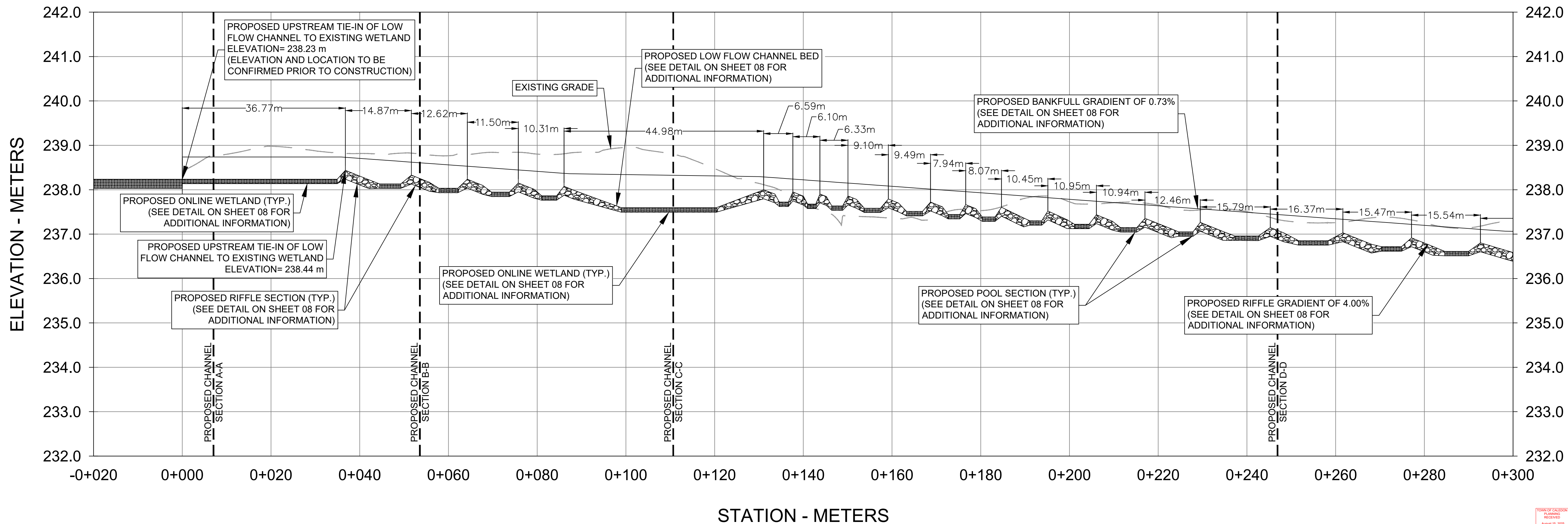
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- WETLAND AREA A DESIGN NOTES:**
- EXISTING WETLAND AREA TO BE REMOVED AND TOP 0.3m OF MATERIAL RELOCATED TO PROPOSED WETLAND AREA A.
 - RELOCATED SOIL WILL CONTAIN THE EXISTING WETLAND SEED BANK WHICH IS EXPECTED TO ACCELERATE VEGETATION ESTABLISHMENT IN THE PROPOSED WETLAND.
 - THE PROPOSED WETLAND AREA A IS DESIGNED AS AN EXTENSION OF THE EXISTING WETLAND AND WILL BE HYDROLOGICALLY CONNECTED TO THE EXISTING DRAINAGE FEATURE DURING ALL FLOW CONDITIONS.
 - REFER TO CROZIER CIVIL GRADING PLAN FOR DETAILED SITE GRADING.
 - REFER TO MHBC LANDSCAPE PLAN FOR WETLAND AND RESTORATION PLANTING PLAN.



PROPOSED REACH 3, SECTION 1 - LONG PROFILE
SCALE: H=1:500 , V=1:50



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 - EXISTING SIGNIFICANT WOODLAND AREA
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 - EXISTING WETLAND AREA
 - PROPOSED WETLAND AREA REMOVAL
 - PROPOSED SIG. WOODLOT AREA REMOVAL
 - PROPOSED DECIDUOUS FOREST AREA
 - PROPOSED SHALLOW MARSH AREA
 - PROPOSED MEADOW MARSH AREA
 - PROPOSED CENTRELINE OF CHANNEL
 - PROPOSED RIFFLE STONE AREA
 - PROPOSED BED MATERIAL AREA
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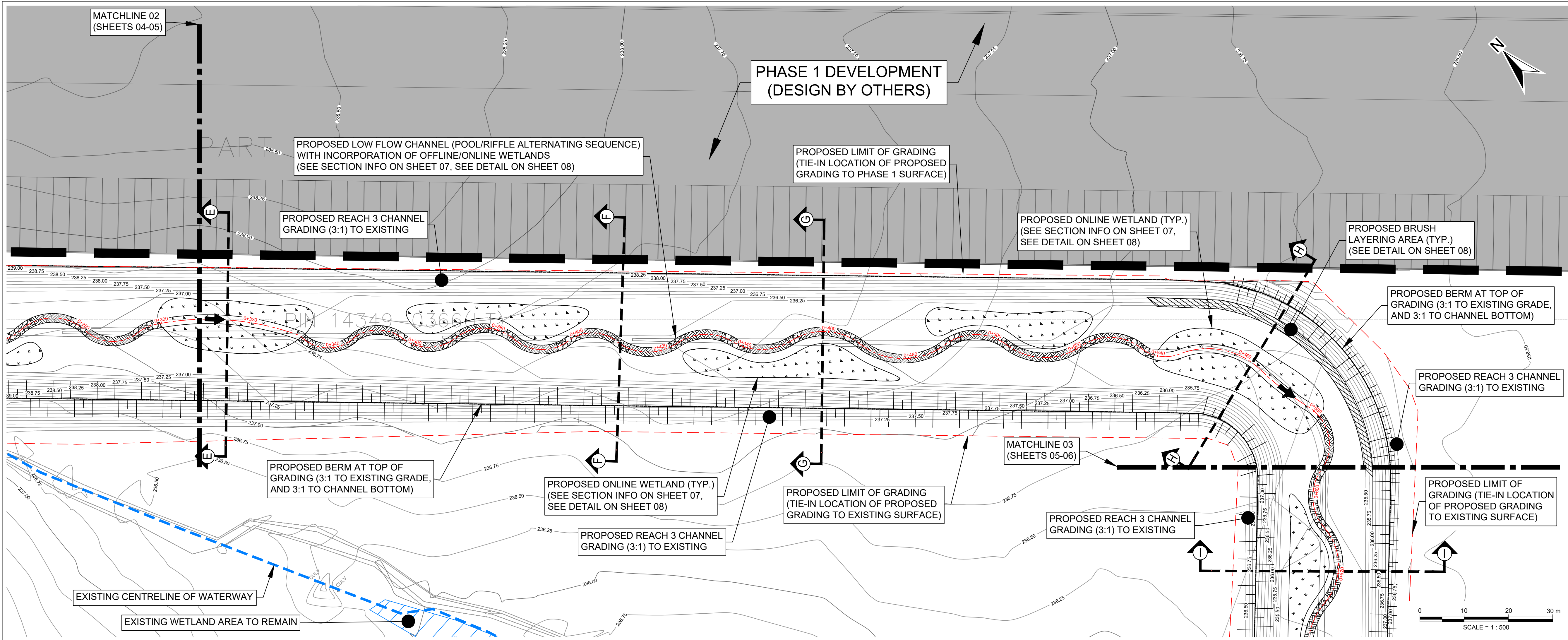
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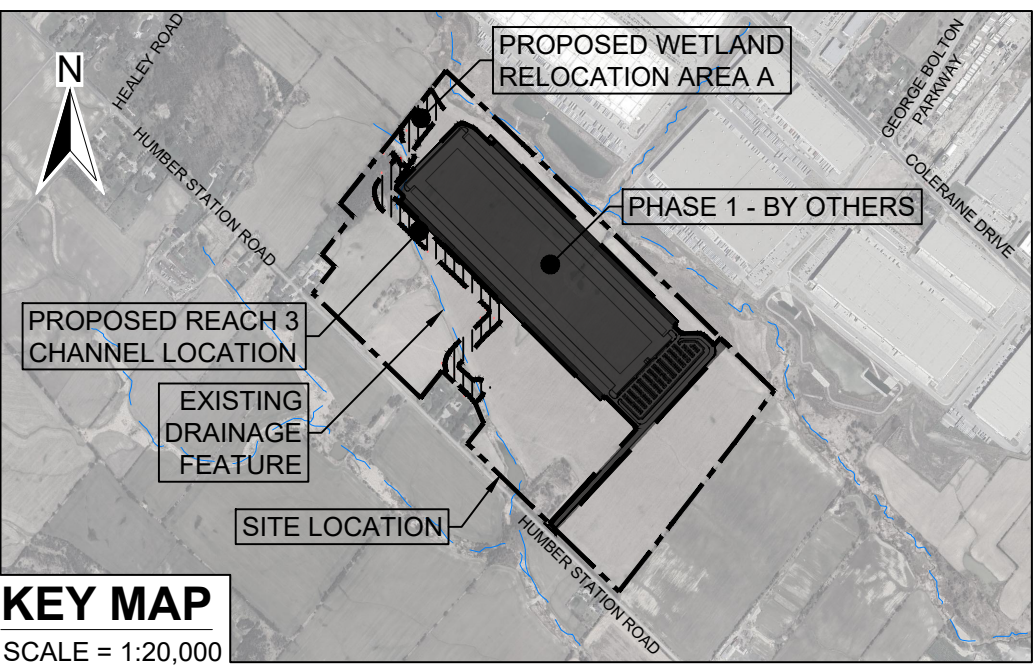
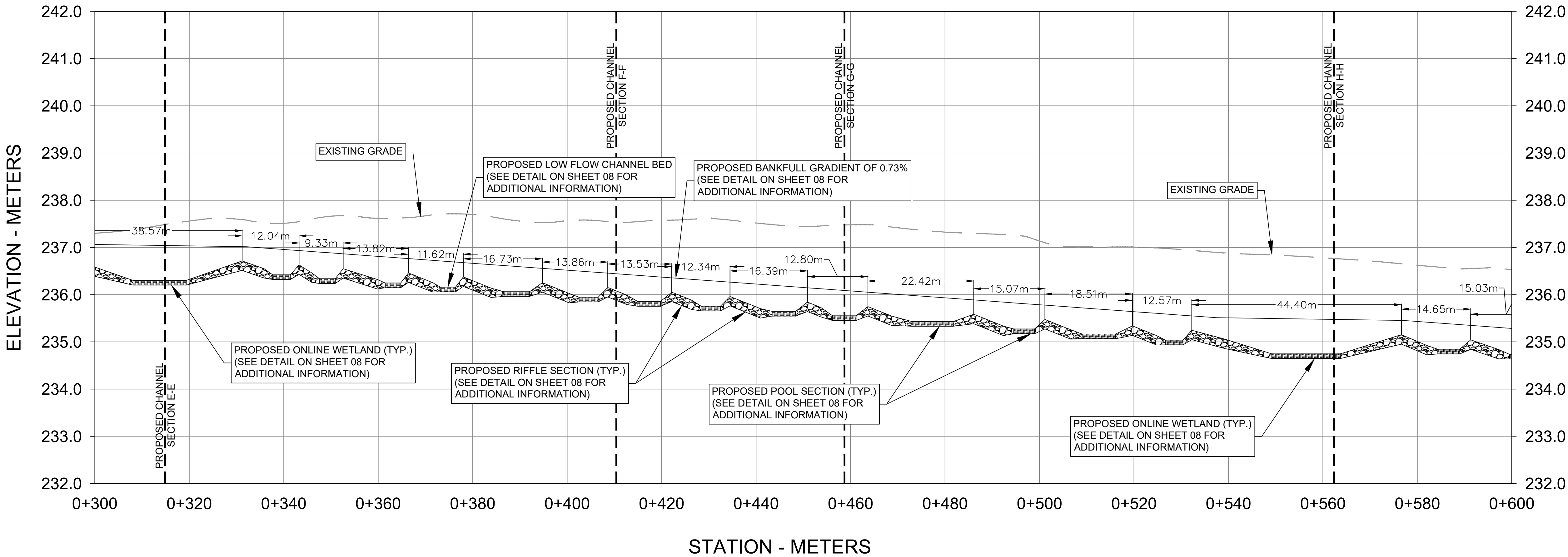


Client:	PROLOGIS - HUMBER STATION		
Project:	DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN		
Drawing Title:	PLAN & PROFILE REACH 3, SECTION 1 OF 3		
Scale:	1:500	Date:	MAR. 10, 2025
Drawn by:	TR	Checked by:	MO
Designed by:	MO	Approved by:	RM
Drawing No.	PP-2		
Sheet No.	04		

NOT FOR CONSTRUCTION



PROPOSED REACH 3, SECTION 2 - LONG PROFILE
SCALE: H=1:500 , V=1:50



- LEGEND
- EXISTING CONTOUR (MINOR)
 - EXISTING CONTOUR (MAJOR)
 - EXISTING SUBJECT PROPERTY BOUNDARY
 - EXISTING ADJACENT PROPERTY BOUNDARY
 - EXISTING NATURAL HERITAGE SYSTEM LIMIT
 - EXISTING SIGNIFICANT WOODLAND AREA
 - EXISTING CENTRELINE OF WATERWAY
 - EXISTING WETLAND AREA
 - PROPOSED WETLAND AREA REMOVAL
 - PROPOSED CENTRELINE OF CHANNEL
 - PROPOSED RIFFLE STONE AREA
 - PROPOSED BED MATERIAL AREA
 - PROPOSED BRUSH LAYERING AREA
 - PROPOSED ONLINE/OFFLINE WETLAND AREA
 - PROPOSED GRADING CONTOURS
 - PROPOSED 3:1 GRADING AREA
 - PROPOSED LIMIT OF GRADING
 - PROPOSED LIMIT OF GRADING
 - PROPOSED PHASE 1 WORKS (BY OTHERS)

- NOTES
- BACKGROUND INFORMATION AND EXISTING CONDITIONS PROVIDED BY CROZIER CONSULTING ENGINEERS ON JANUARY 28, 2025.
 - SURVEY INFORMATION PROVIDED BY CROZIER CONSULTING ENGINEERS ON JANUARY 28, 2025. HORIZONTAL DATUM CONTROL IS IN NAD 83 (CSRS) / UTM ZONE 17N.
 - AERIAL IMAGERY RETRIEVED FROM GOOGLE EARTH IMAGING ON FEBRUARY 4, 2025.
 - CONTOUR INTERVAL IS 0.25 METERS.

Revision	By	Chk'd By	Date	Comments
1	TR	MO	12/08/25	DETAILED DESIGN SUBMISSION
0	TR	MO	10/03/25	DRAFT DETAILED DESIGN

SLR

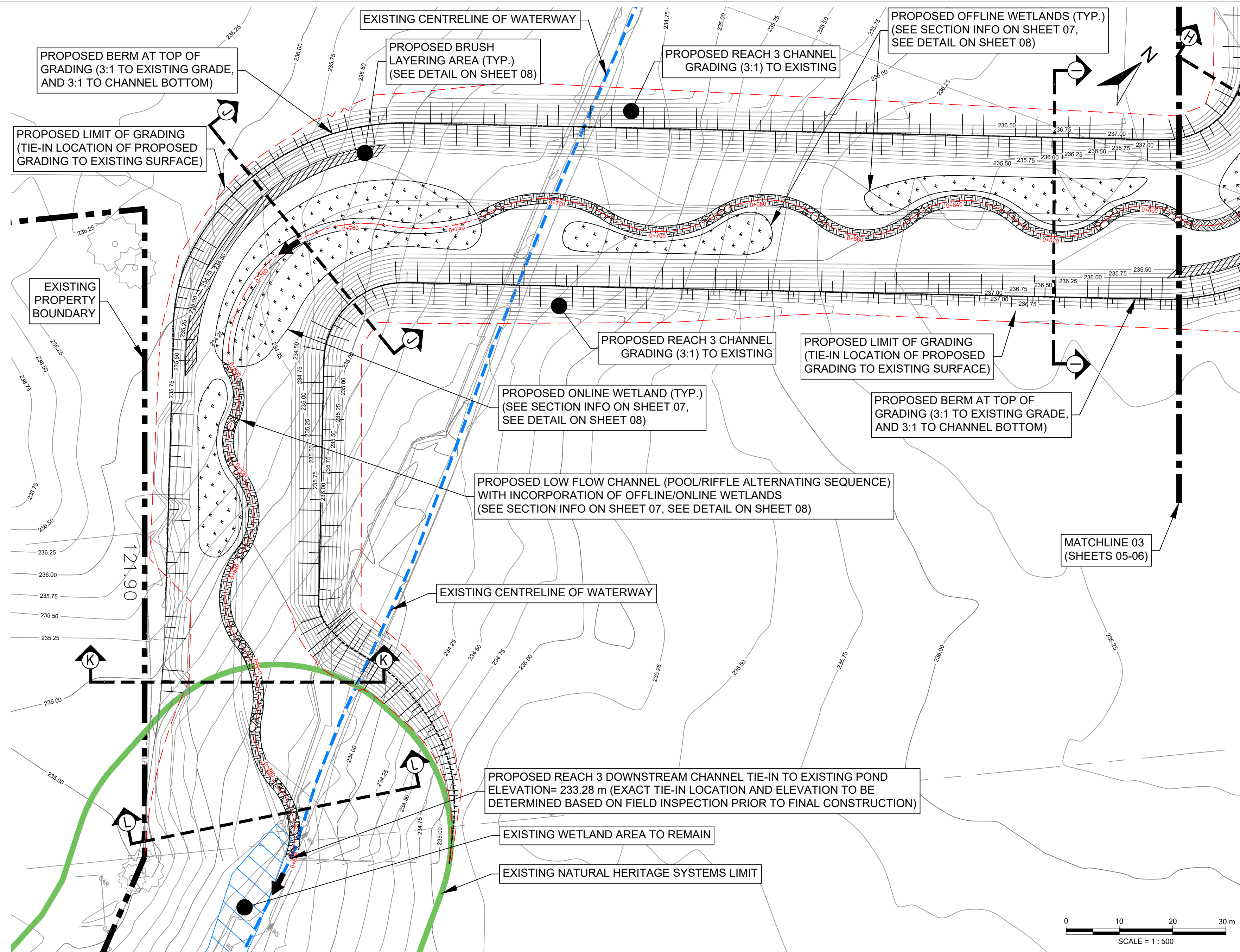
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ON L3R 8H8
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F: 905.415.1019
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LICENSED PROFESSIONAL ENGINEER
M. A. P. OSBURN
100502995
12-AUG-2025
PROVINCE OF ONTARIO

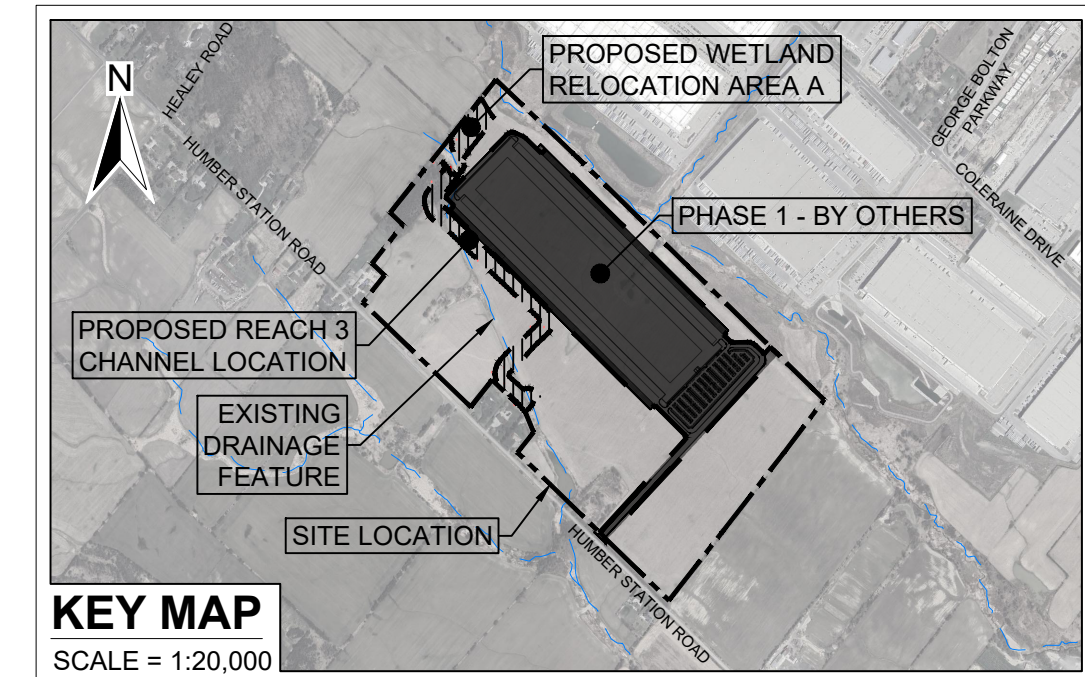
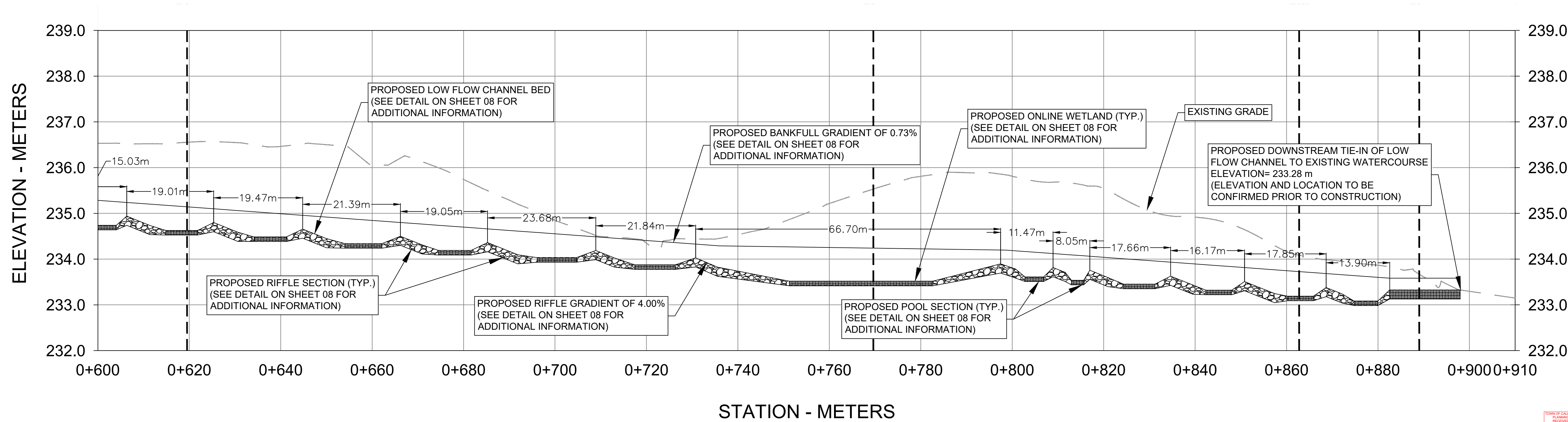
PROFESSIONAL GEOLOGIST
ROBIN J. McKILLOP
1443
AUG 12 2025
ONTARIO

Client:	PROLOGIS - HUMBER STATION		
Project:	DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN		
Drawing Title:	PLAN & PROFILE REACH 3, SECTION 2 OF 3		
Scale:	1:500	Date:	MAR. 10, 2025
Drawn by:	TR	Checked by:	MO
Designed by:	MO	Approved by:	RM
Drawing No.	PP-3		
Sheet No.	05		

NOT FOR CONSTRUCTION



PROPOSED REACH 3, SECTION 3 - LONG PROFILE
SCALE: H=1:500, V=1:50



LEGEND	
	EXISTING CONTOUR (MINOR)
	EXISTING CONTOUR (MAJOR)
	EXISTING SUBJECT PROPERTY BOUNDARY
	EXISTING ADJACENT PROPERTY BOUNDARY
	EXISTING NATURAL HERITAGE SYSTEM LIMIT
	EXISTING SIGNIFICANT WOODLAND AREA
	EXISTING CENTRELINE OF WATERWAY
	EXISTING WETLAND AREA
	PROPOSED WETLAND AREA REMOVAL
	PROPOSED CENTRELINE OF CHANNEL
	PROPOSED RIFFLE STONE AREA
	PROPOSED BED MATERIAL AREA
	PROPOSED BRUSH LAYERING AREA
	PROPOSED ONLINE/OFFLINE WETLAND AREA
	PROPOSED GRADING CONTOURS
	PROPOSED 3:1 GRADING AREA
	PROPOSED LIMIT OF GRADING
	PROPOSED LIMIT OF GRADING
	PROPOSED PHASE 1 WORKS (BY OTHERS)

- NOTES
- BACKGROUND INFORMATION AND EXISTING CONDITIONS PROVIDED BY CROZIER CONSULTING ENGINEERS ON JANUARY 28, 2025.
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 - AERIAL IMAGERY RETRIEVED FROM GOOGLE EARTH IMAGING ON FEBRUARY 4, 2025.
 - CONTOUR INTERVAL IS 0.25 METERS.

Revision	By	Chk'd By	Date	Comments
1	TR	MO	12/08/25	DETAILED DESIGN SUBMISSION
0	TR	MO	10/03/25	DRAFT DETAILED DESIGN

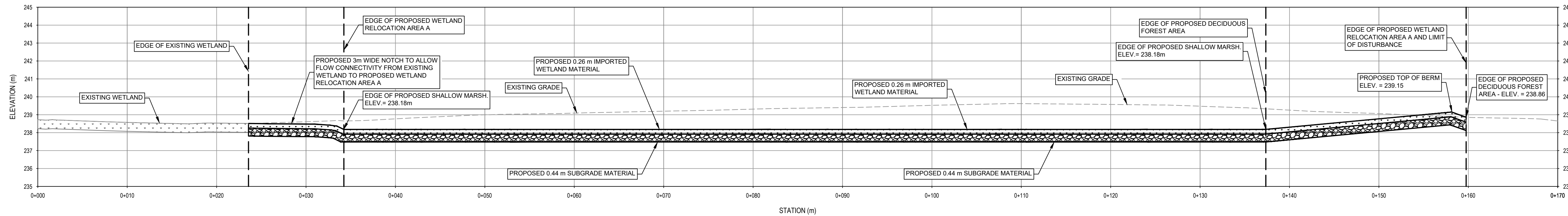
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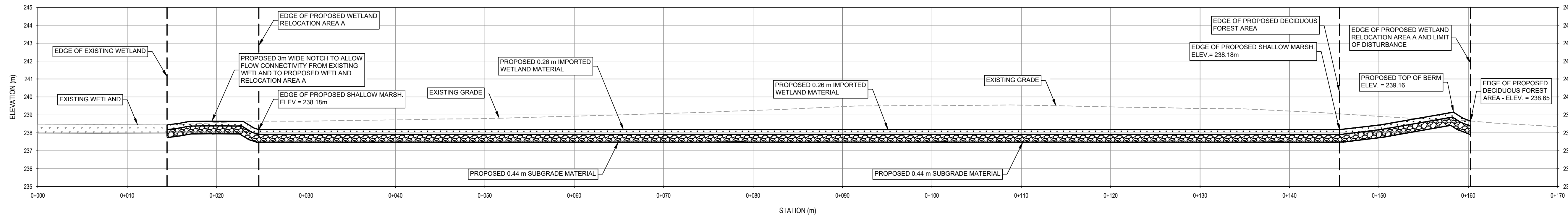
Client: PROLOGIS - HUMBER STATION		
Project: DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN		
Drawing Title: PLAN & PROFILE REACH 3, SECTION 3 OF 3		
Scale: 1:500	Date: MAR. 10, 2025	Drawing No. PP-4
Drawn by: TR	Checked by: MO	Sheet No. 06
Designed by: MO	Approved by: RM	

NOT FOR CONSTRUCTION

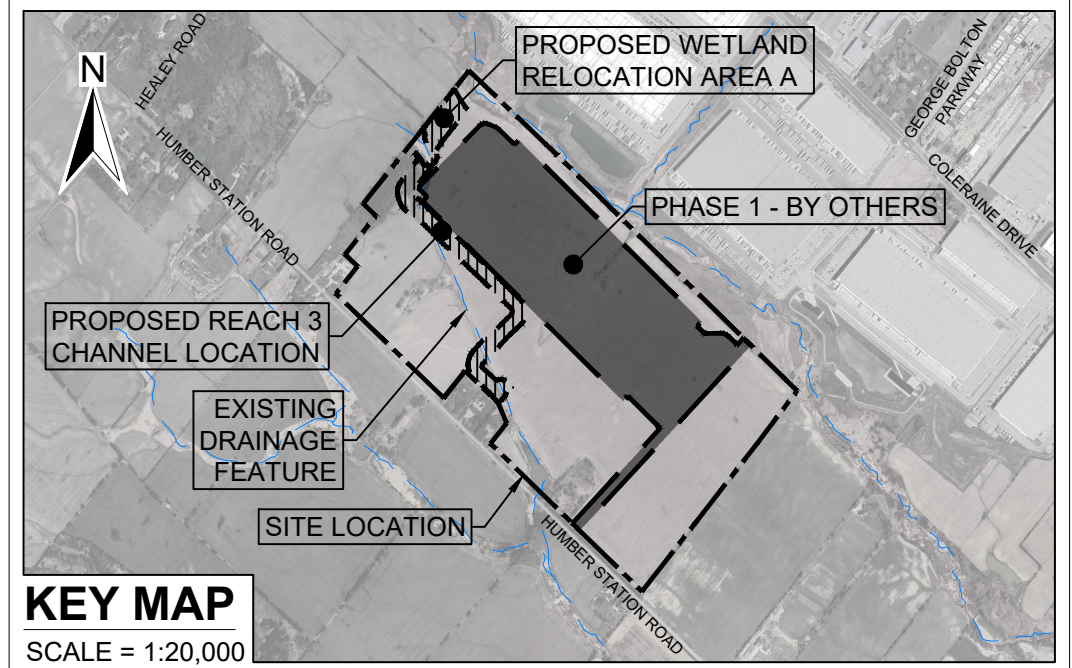
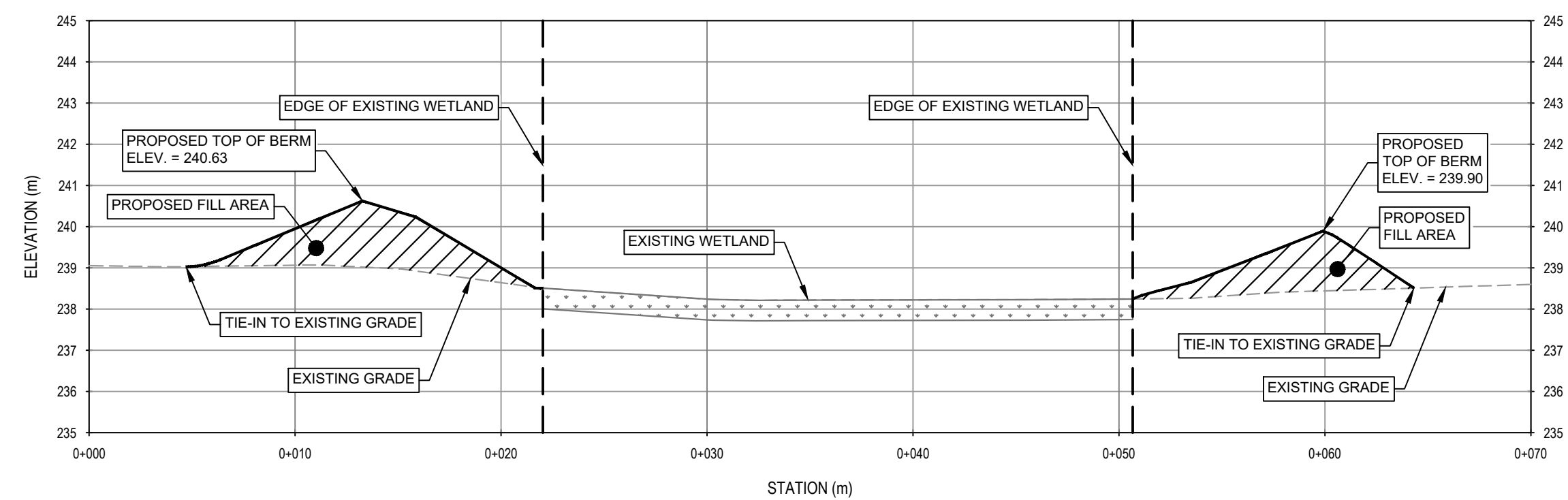
SCALE: H=1:250 , V=1:125







SCALE: H=1:250 , V=1:125



SCALE: H=1:250 , V=1:125



LEGEND

-  EXISTING GRADE
 PROPOSED GRADE
 EXISTING WETLAND AREA
 PROPOSED IMPORTED WETLAND MATERIAL
 PROPOSED SUBGRADE MATERIAL

1	TR	MO	12/08/25	DETAILED DESIGN SUBMISSION
0	TR	MO	dd/mm/yy	DRAFT DETAILED DESIGN
Revision	By	Chk'd By	dd/mm/yy Date	Comments



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Client:

PROLOGIS - HUMBER STATION

Project:

DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN

Drawing Title:

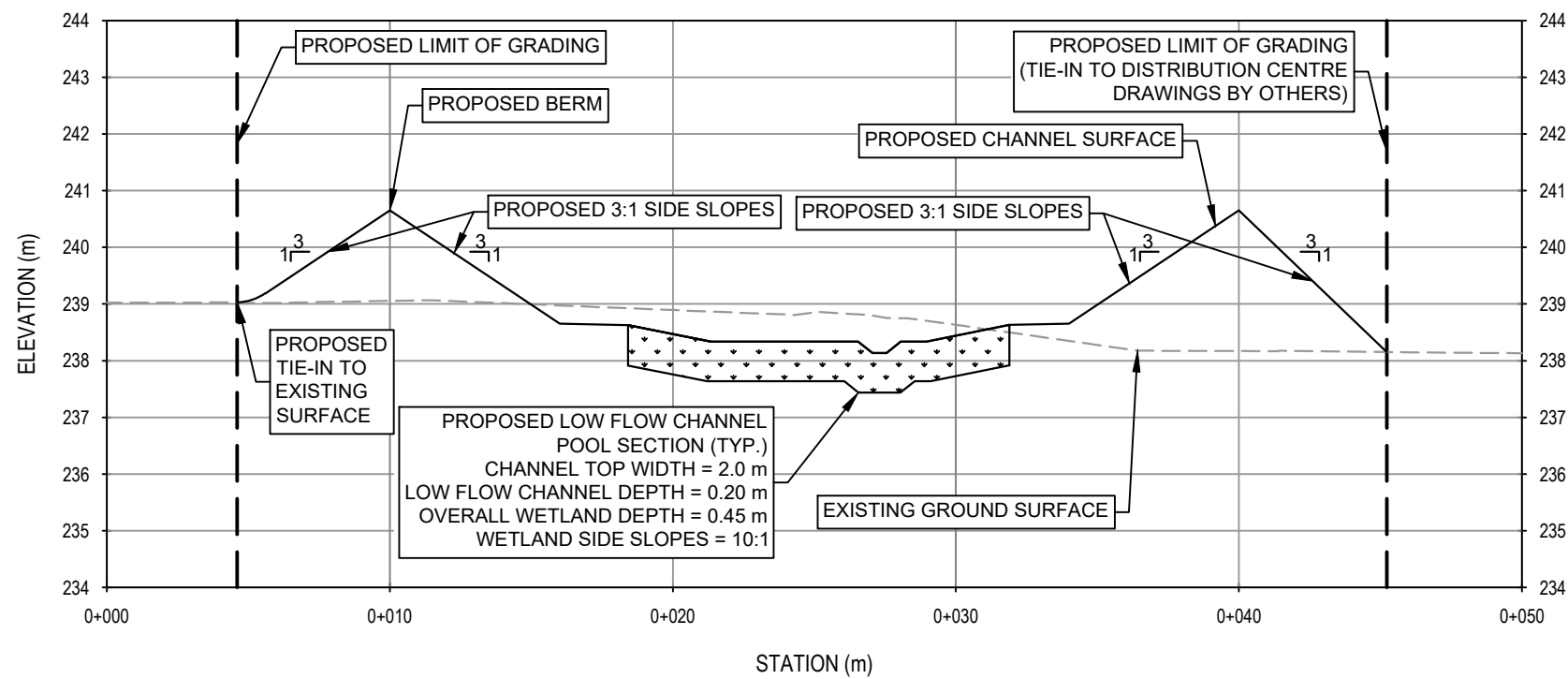
DESIGN WETLAND CROSS SECTIONS

Scale: AS SHOWN	Date: MAR. 10, 2025	Drawing No. XS-1
Drawn by: TR	Checked by: MO	
Designed by: MO	Approved by: RM	Sheet No. 07

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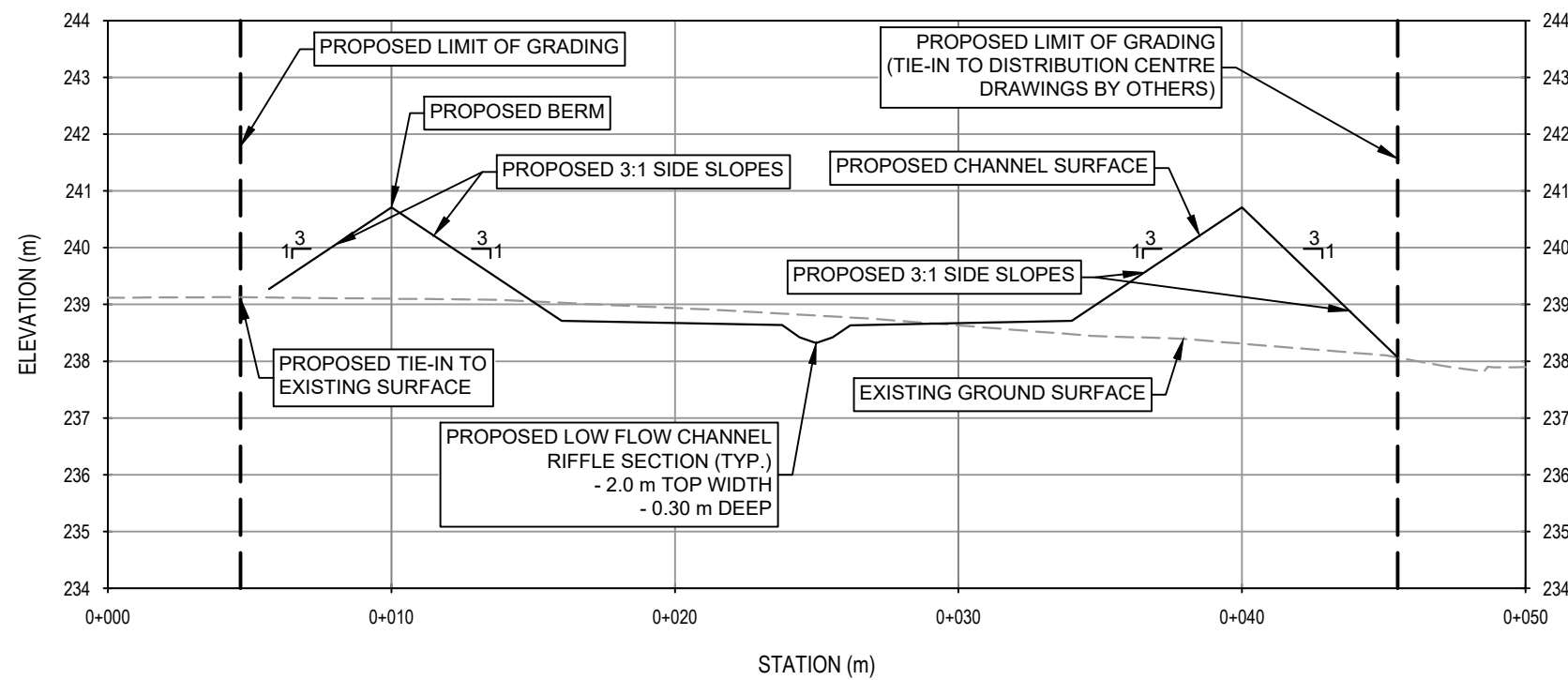
PROPOSED CHANNEL - SECTION A-A

STN: 0 + 007
SCALE: H=1:250 , V=1:125



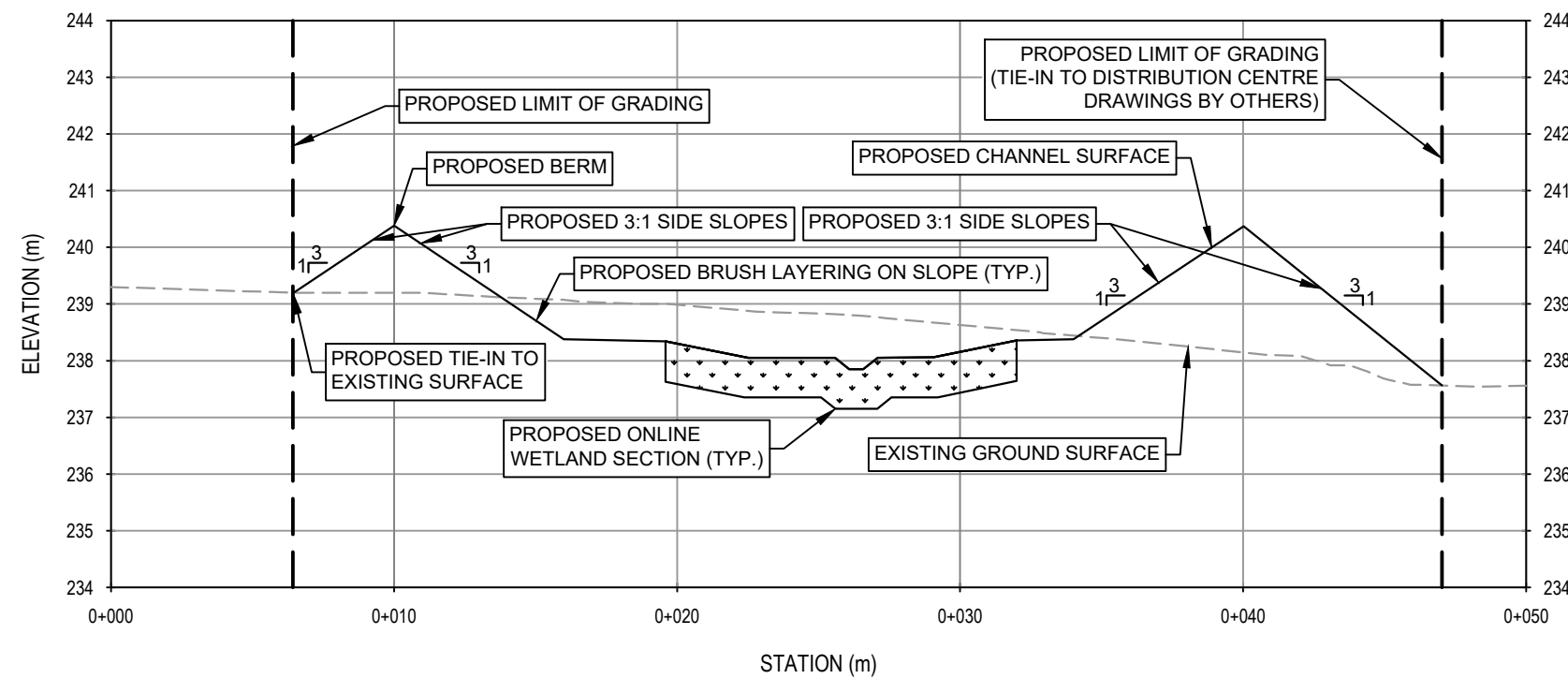
PROPOSED CHANNEL - SECTION B-B

STN: 0 + 054
SCALE: H=1:250 , V=1:125



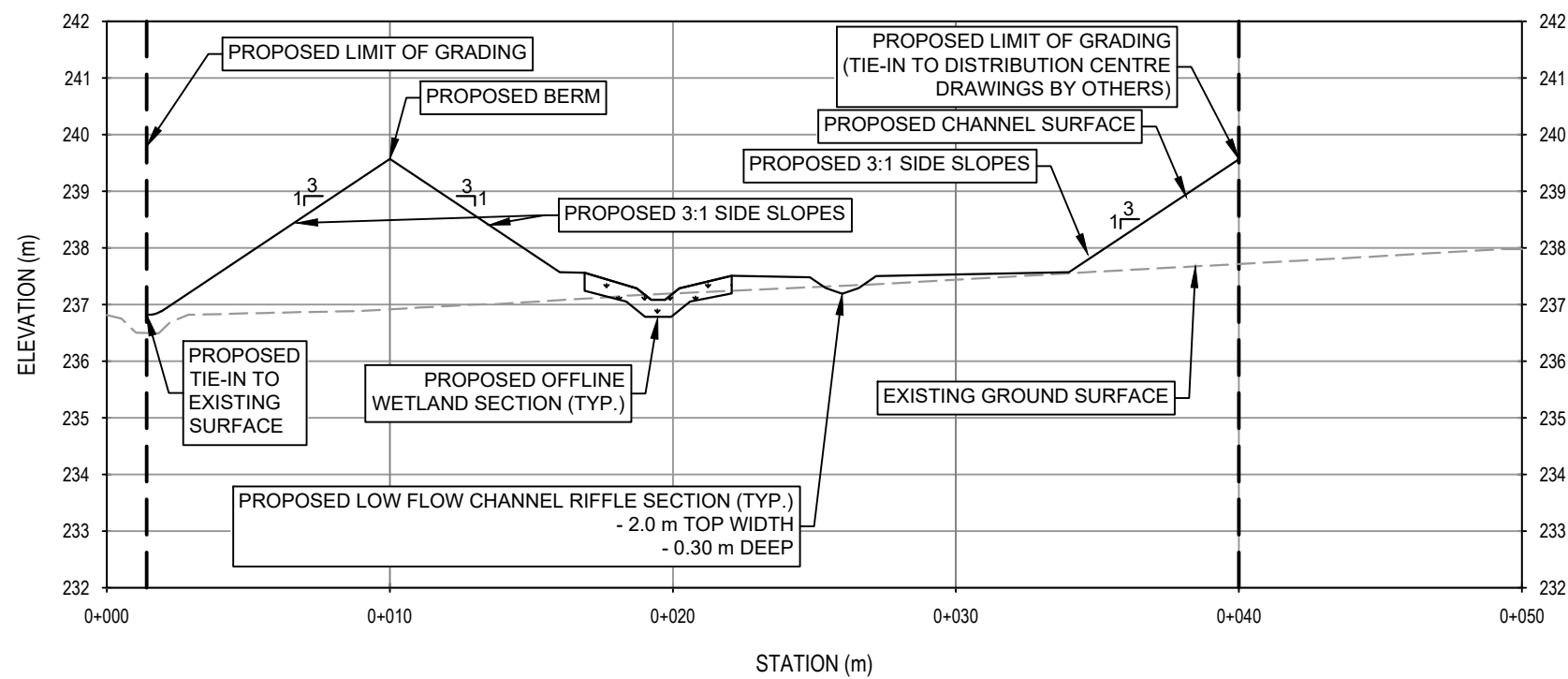
PROPOSED CHANNEL - SECTION C-C

STN: 0 + 111
SCALE: H=1:250 , V=1:125



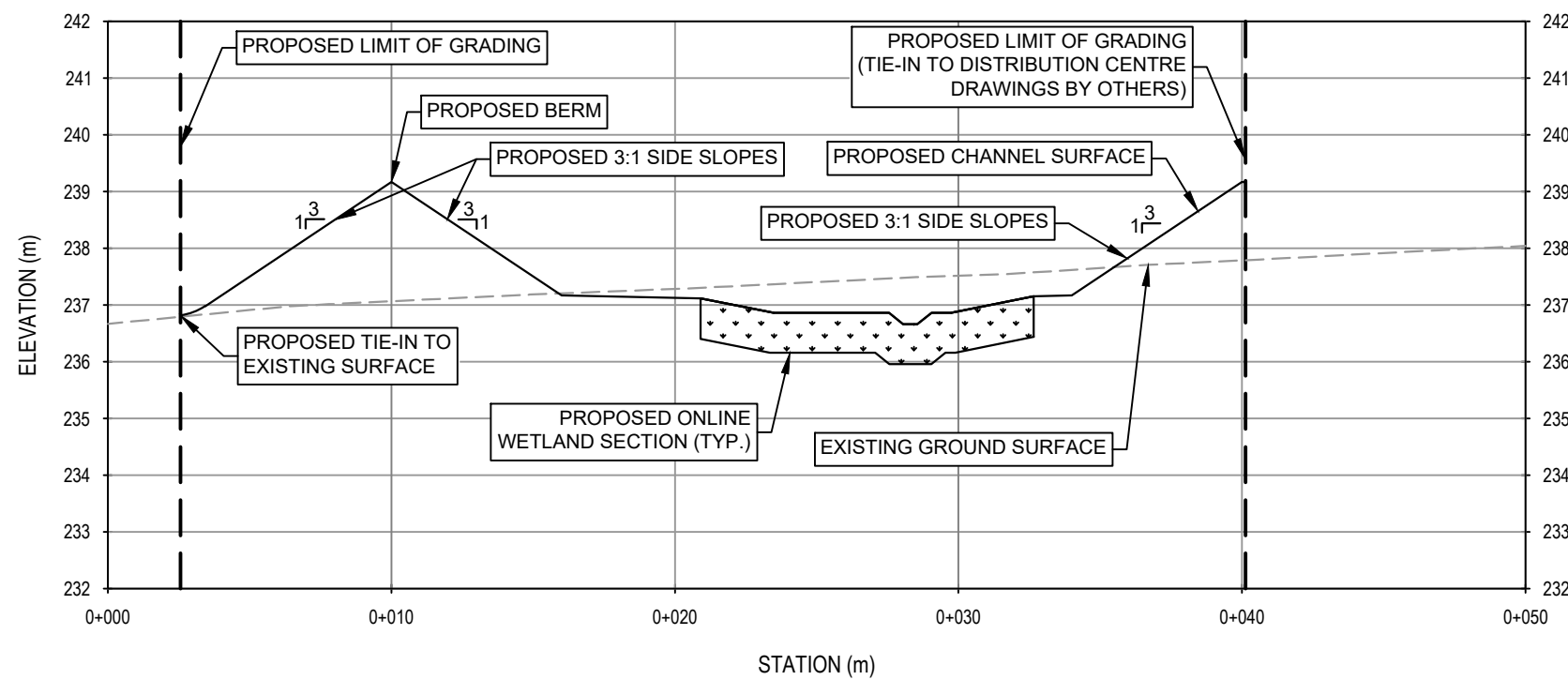
PROPOSED CHANNEL - SECTION D-D

STN: 0 + 248
SCALE: H=1:250 , V=1:125



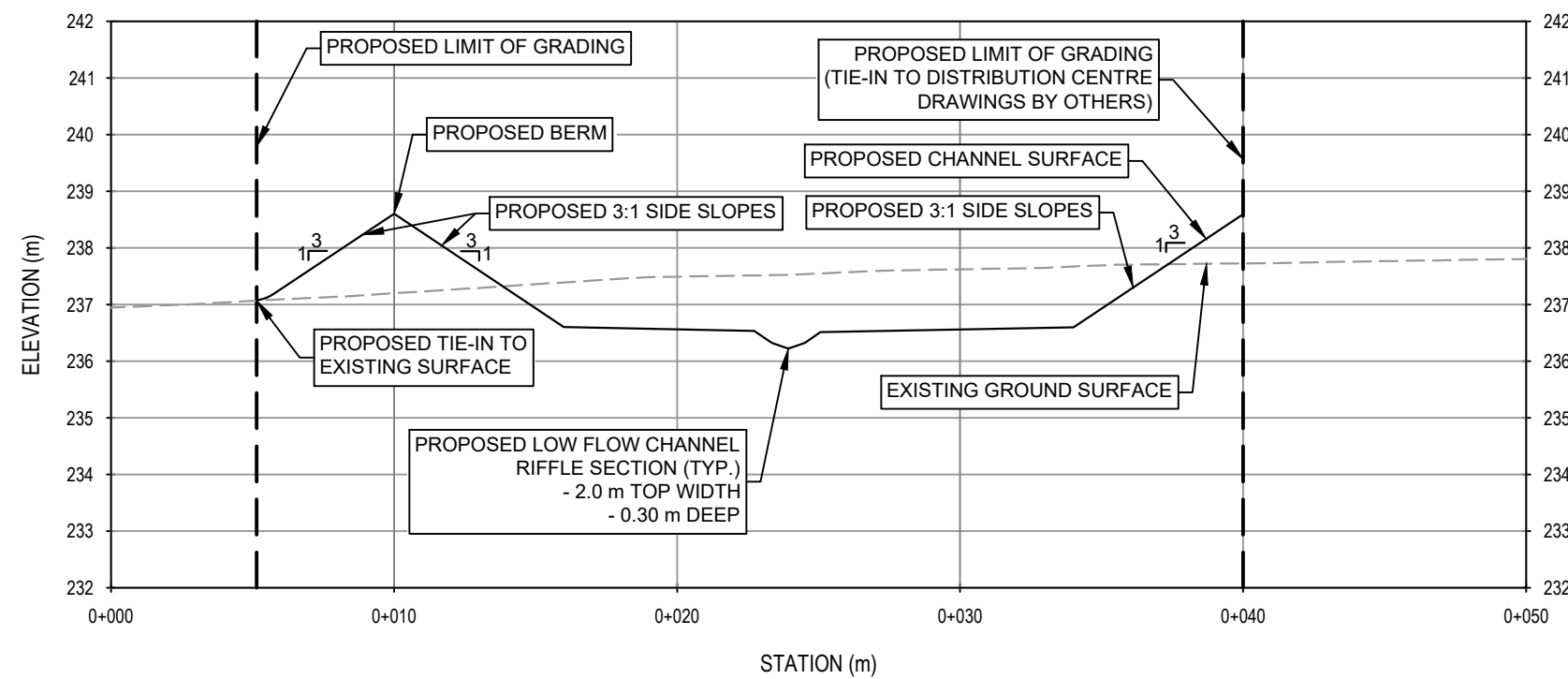
PROPOSED CHANNEL - SECTION E-E

STN: 0 + 317
SCALE: H=1:250 , V=1:125



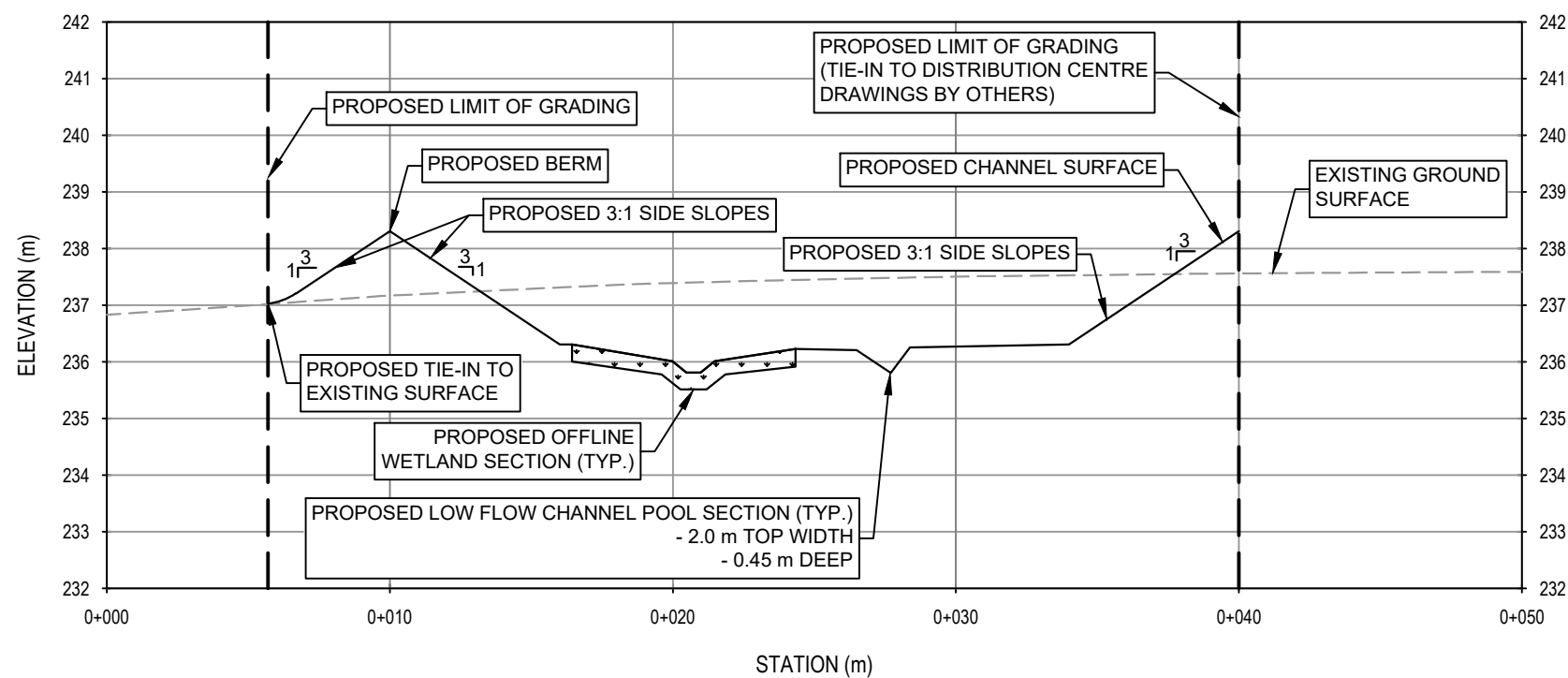
PROPOSED CHANNEL - SECTION F-F

STN: 0 + 412
SCALE: H=1:250 , V=1:125



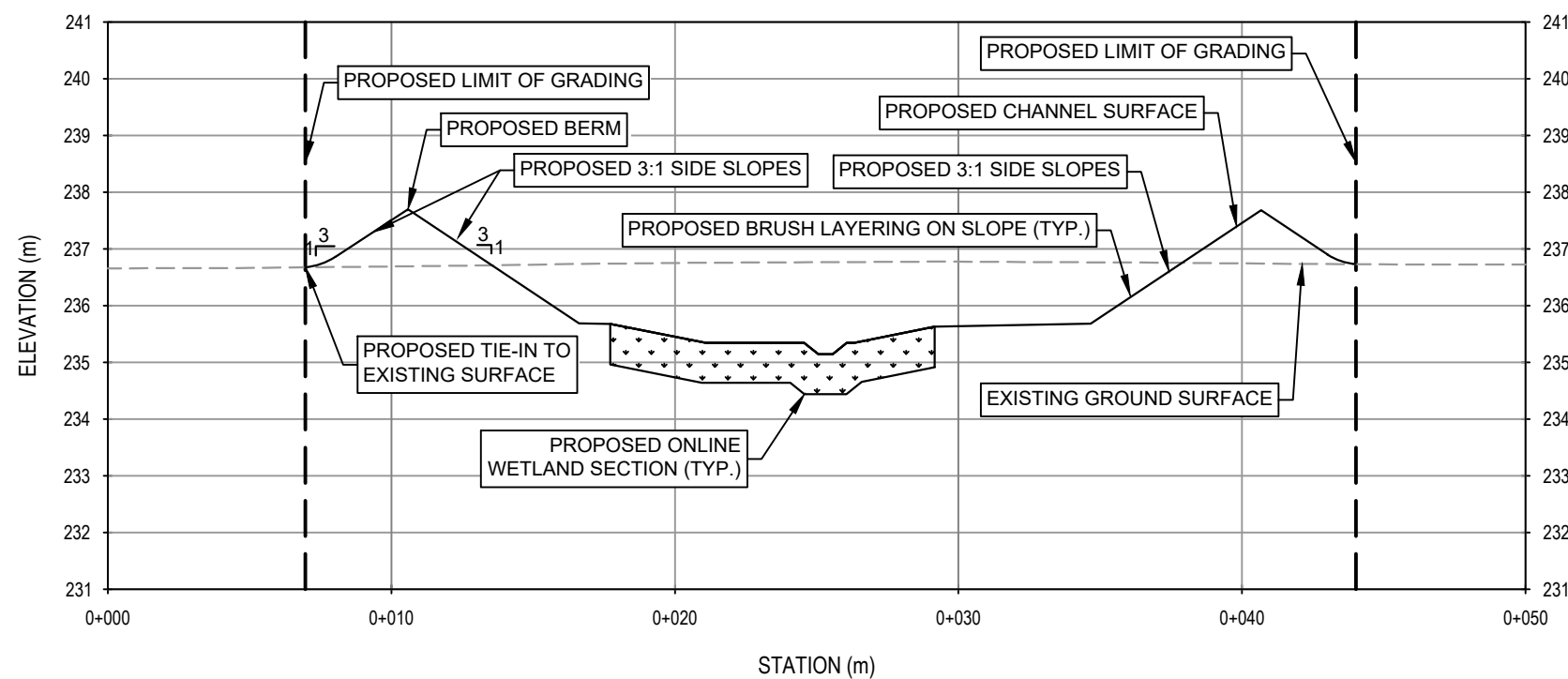
PROPOSED CHANNEL - SECTION G-G

STN: 0 + 460
SCALE: H=1:250 , V=1:125



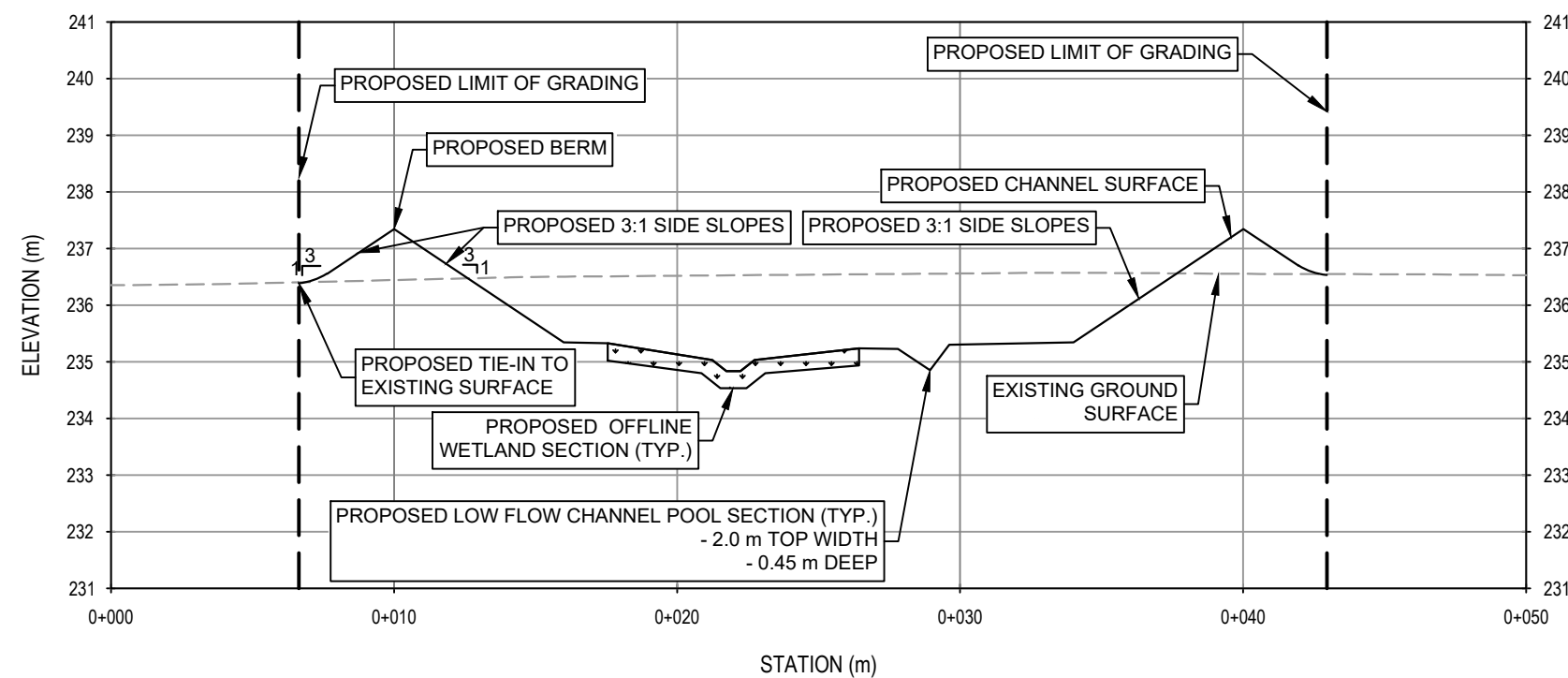
PROPOSED CHANNEL - SECTION H-H

STN: 0 + 563
SCALE: H=1:250 , V=1:125



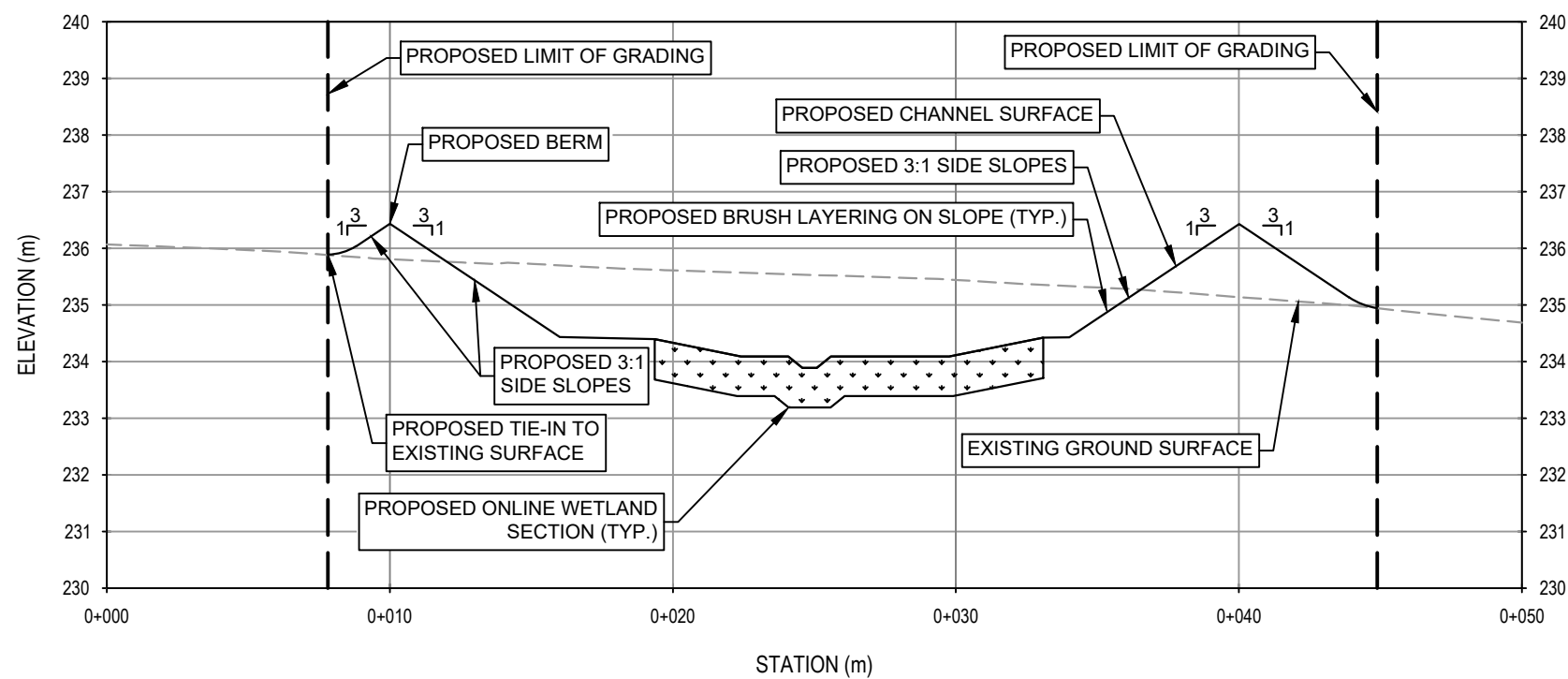
PROPOSED CHANNEL - SECTION I-I

STN: 0 + 621
SCALE: H=1:250 , V=1:125



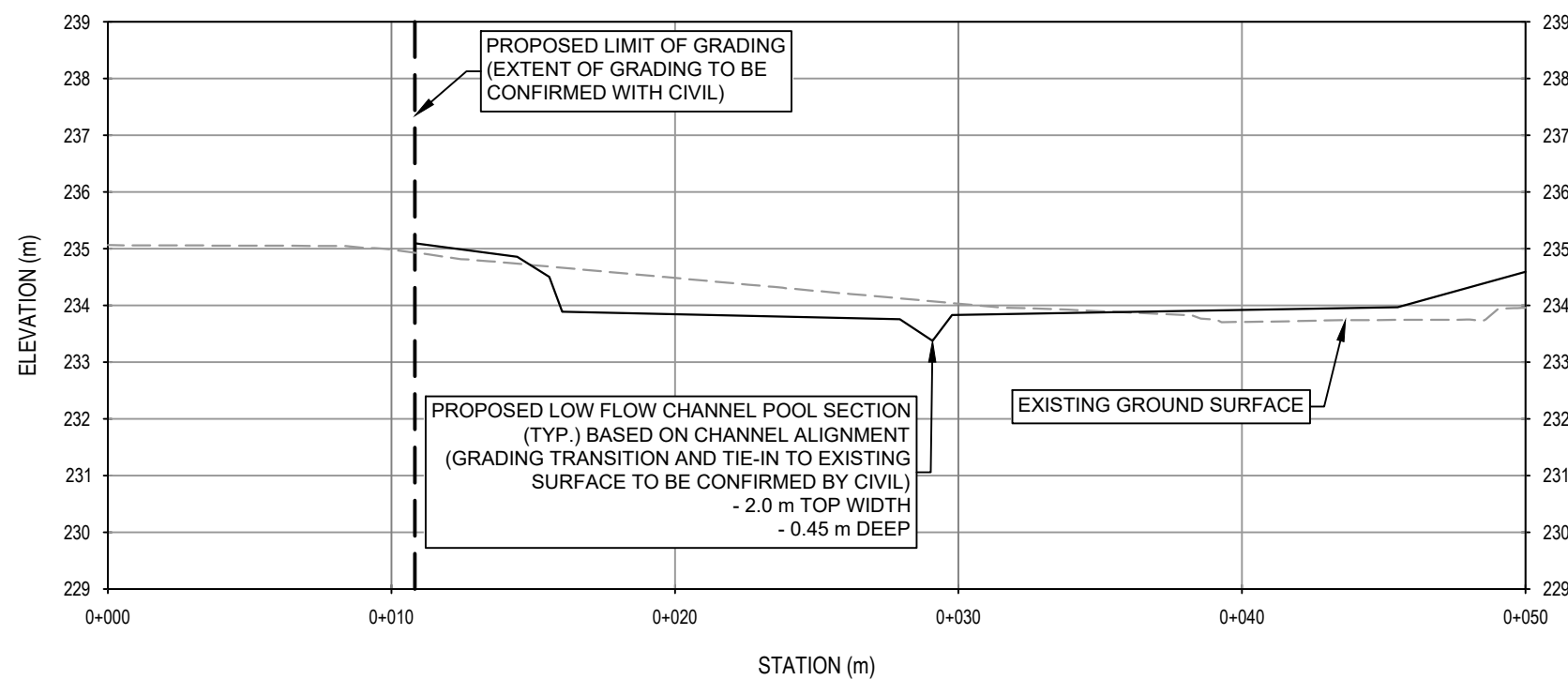
PROPOSED CHANNEL - SECTION J-J

STN: 0 + 771
SCALE: H=1:250 , V=1:125



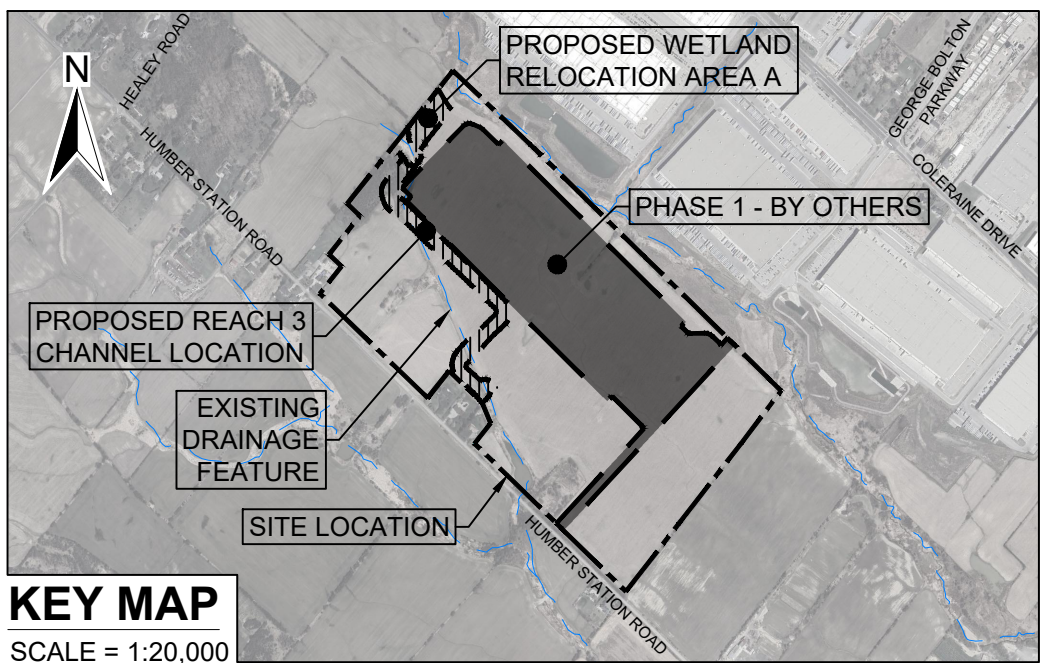
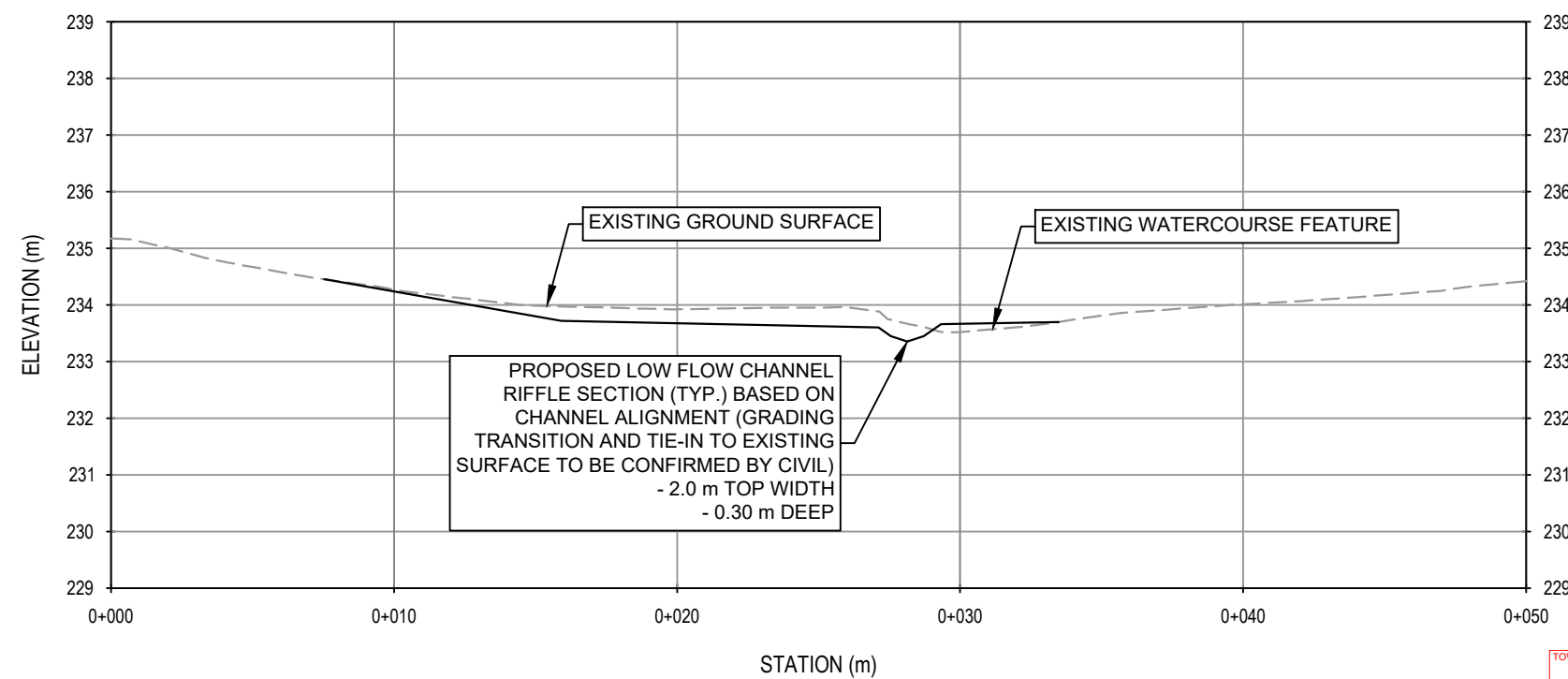
PROPOSED CHANNEL - SECTION K-K

STN: 0 + 864
SCALE: H=1:250 , V=1:125



PROPOSED CHANNEL - SECTION L-L

STN: 0 + 890
SCALE: H=1:250 , V=1:125



KEY MAP
SCALE = 1:20,000

LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED IMPORTED WETLAND MATERIAL

Revision	By	Chk'd By	Date	Comments
1	TR	MO	12/08/25	DETAILED DESIGN SUBMISSION
0	TR	MO	10/03/25	DRAFT DETAILED DESIGN

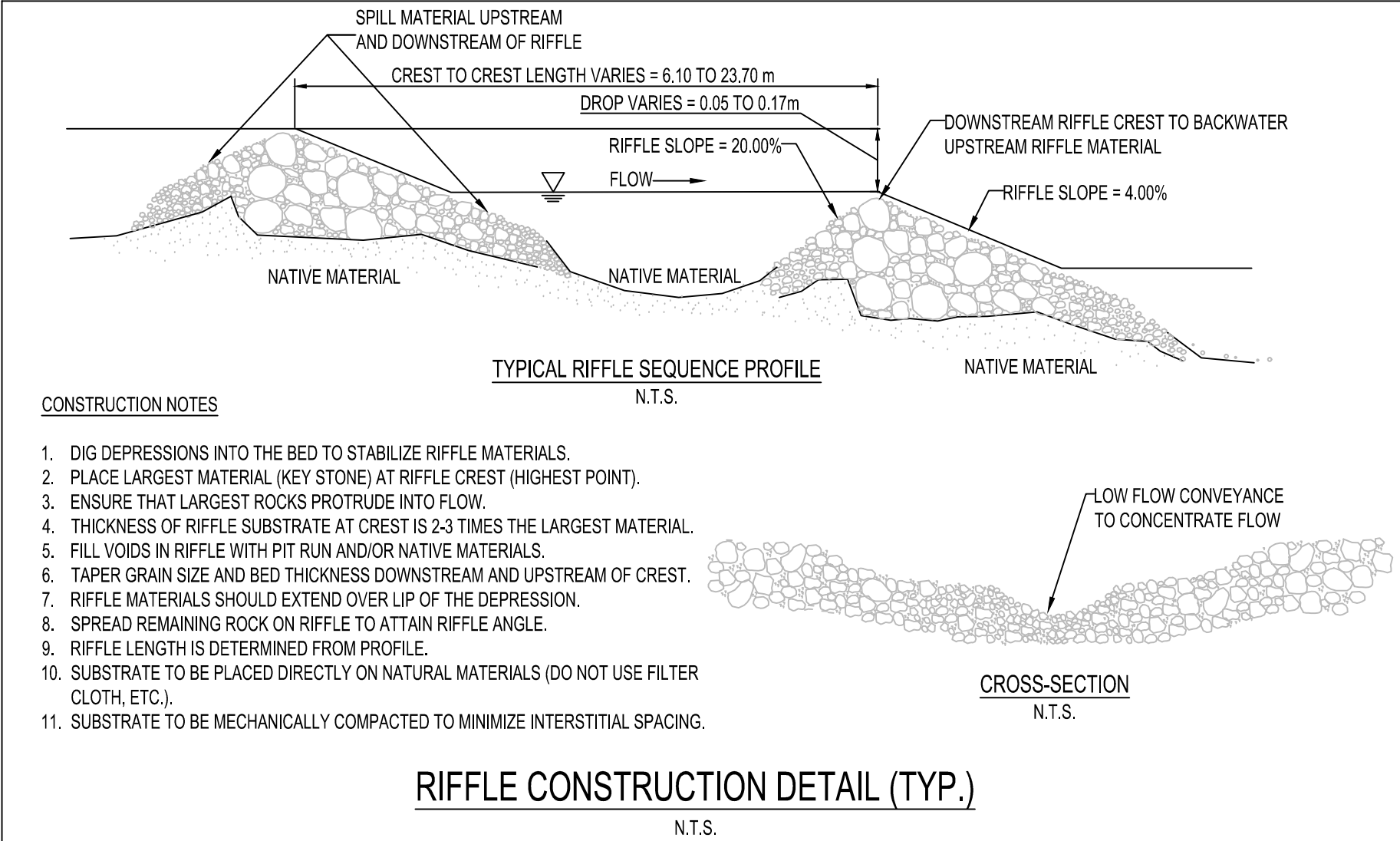
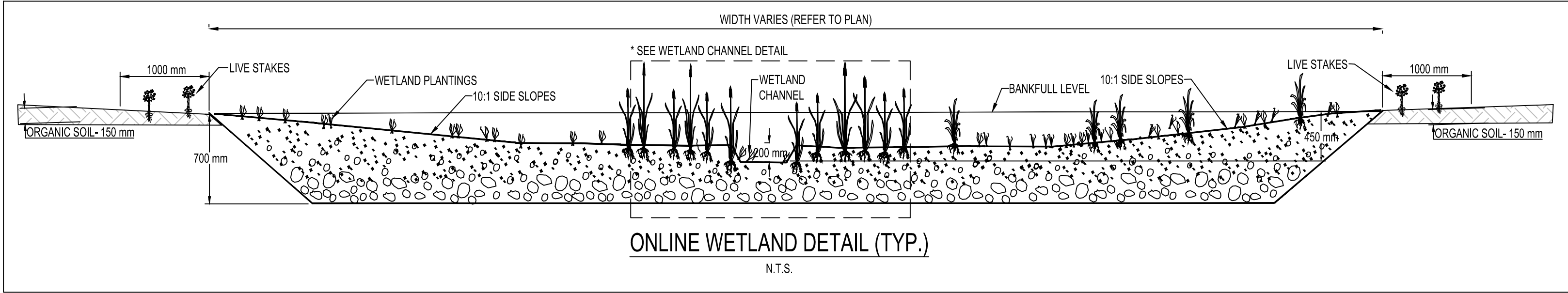
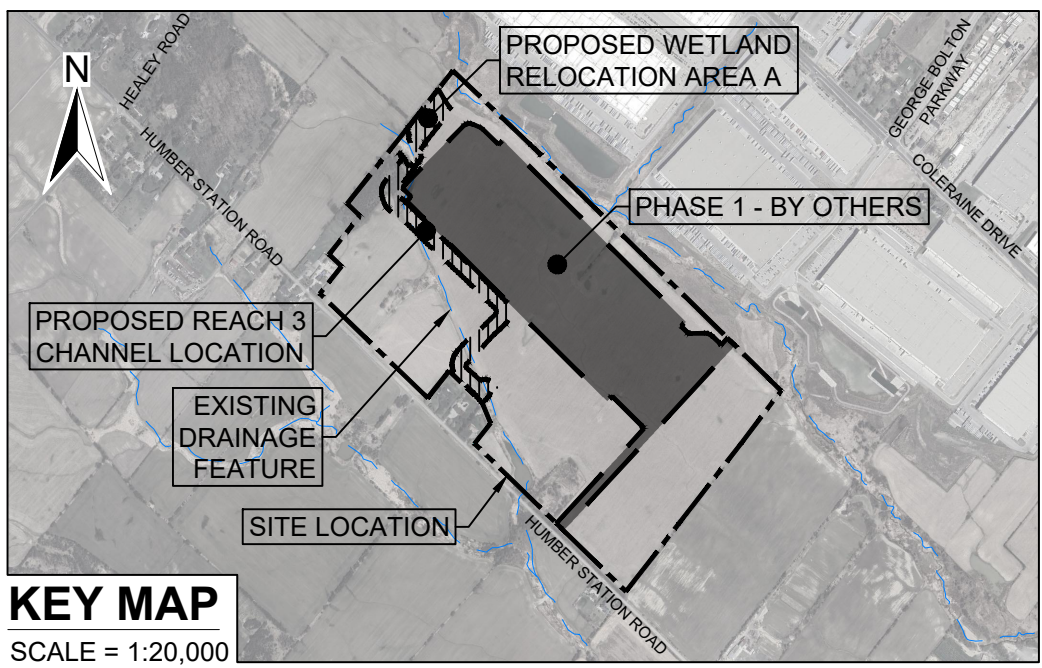
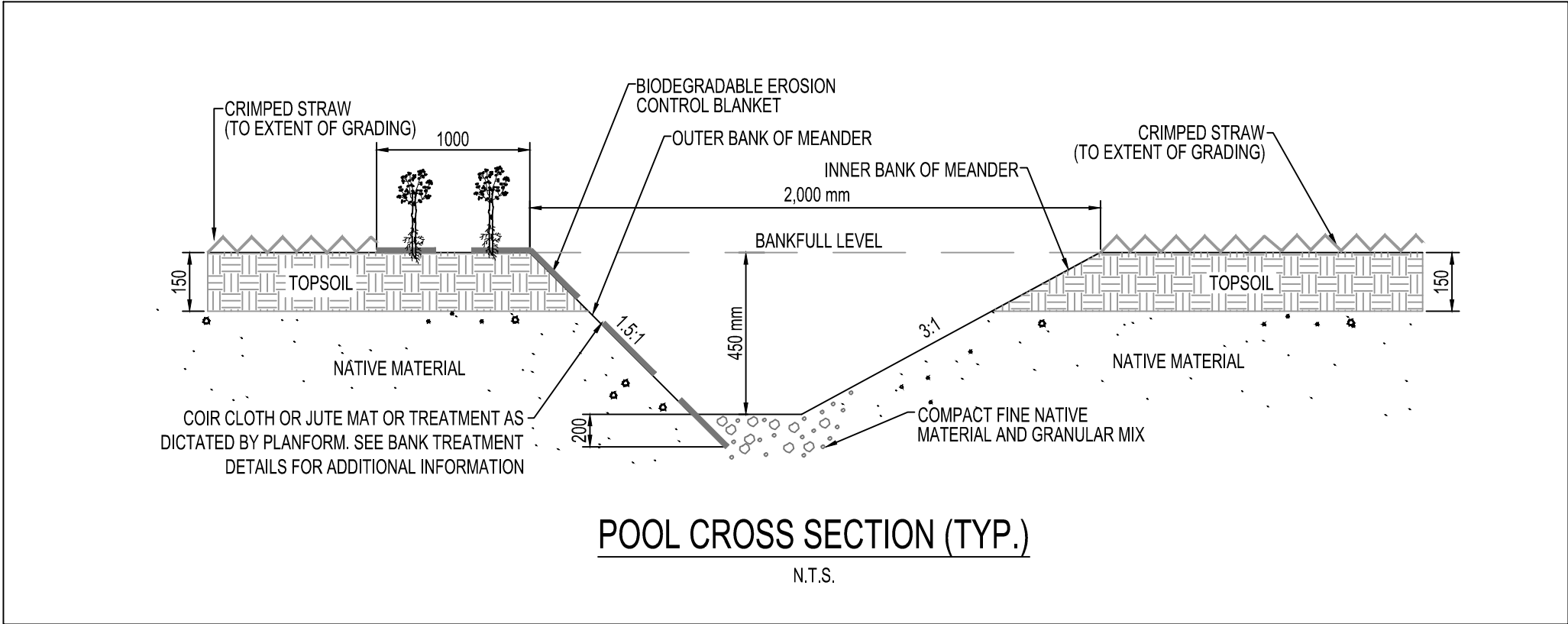
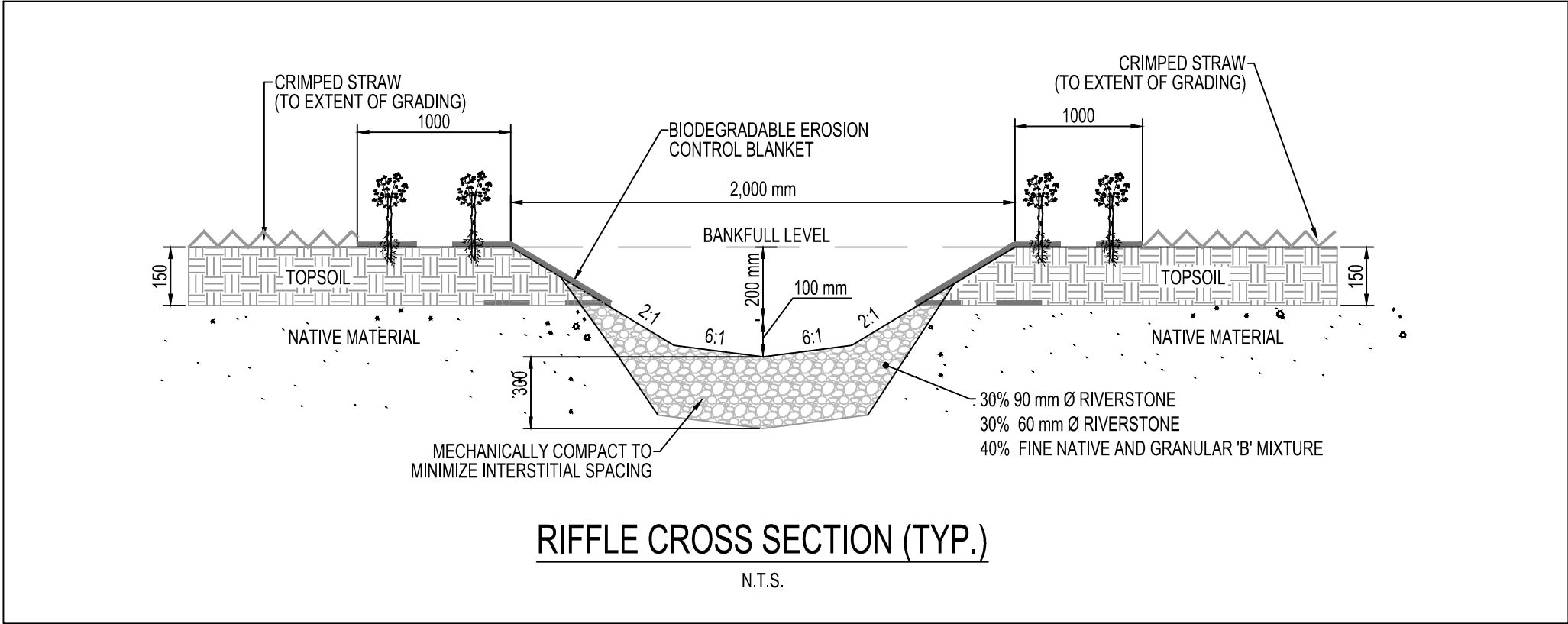
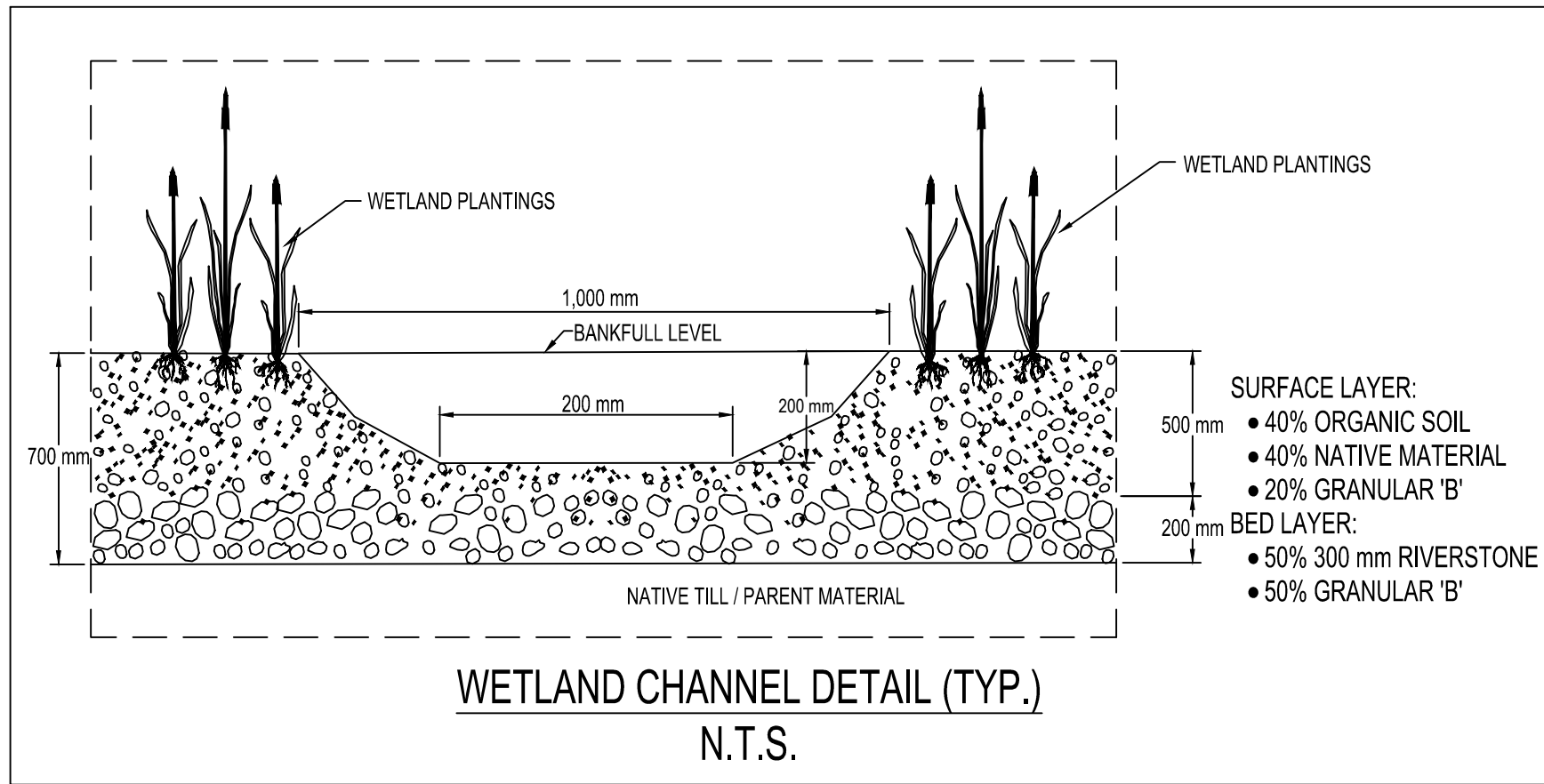


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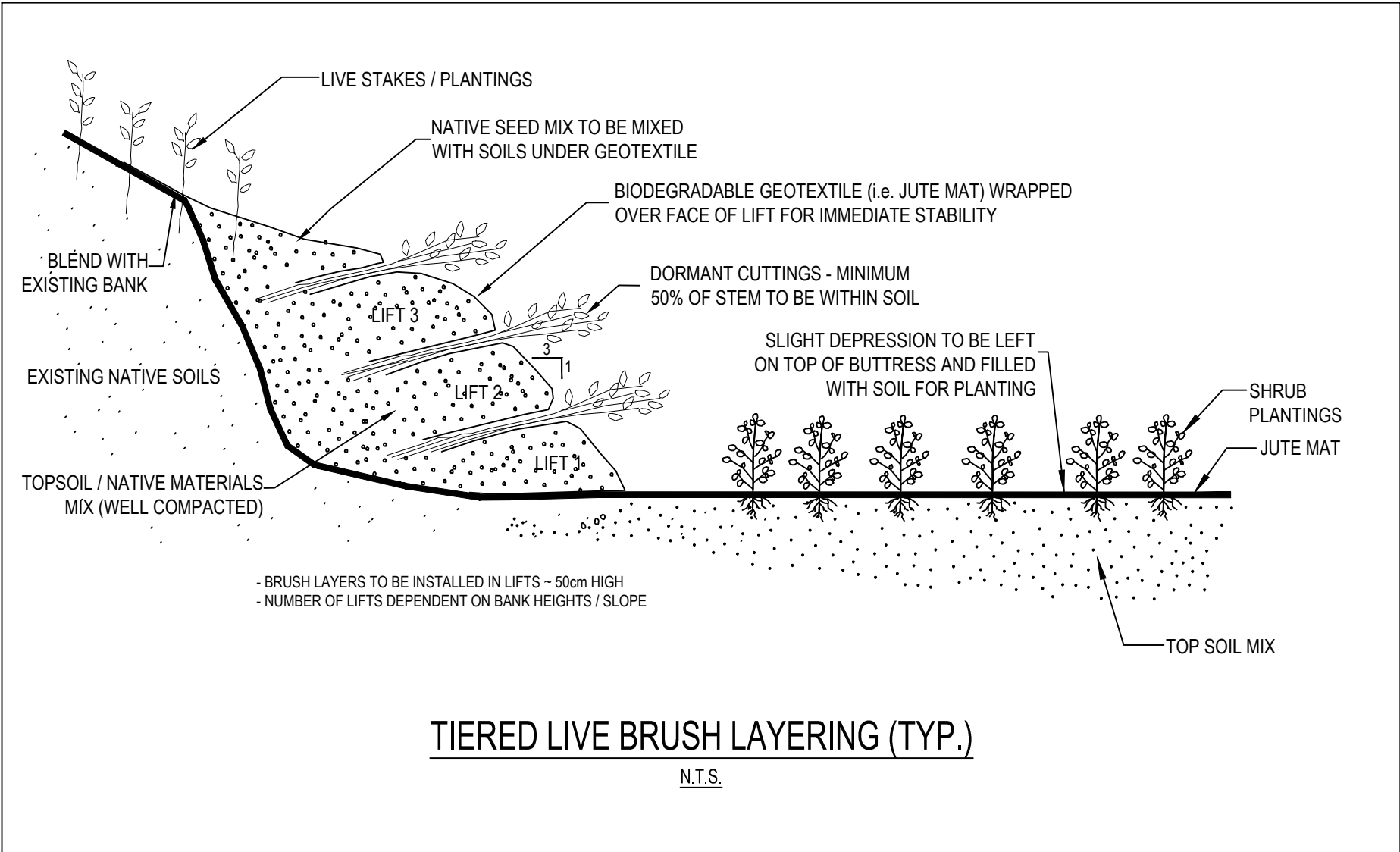
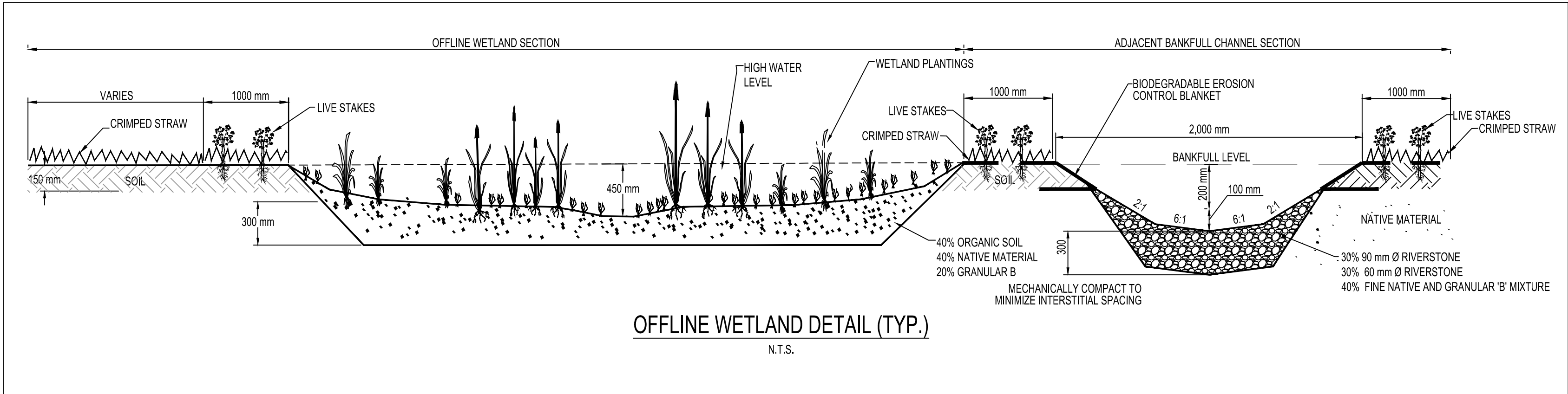


Client:			
PROLOGIS - HUMBER STATION			
Project:			
DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN			
Drawing Title:			
DESIGN CHANNEL CROSS SECTIONS			
Scale:	AS SHOWN	Date:	MAR. 10, 2025
Drawn by:	TR	Checked by:	MO
Designed by:	MO	Approved by:	RM
Drawing No.		XS-2	
Sheet No.		08	

NOT FOR CONSTRUCTION



- CONSTRUCTION NOTES
1. DIG DEPRESSIONS INTO THE BED TO STABILIZE RIFFLE MATERIALS.
 2. PLACE LARGEST MATERIAL (KEY STONE) AT RIFFLE CREST (HIGHEST POINT).
 3. ENSURE THAT LARGEST ROCKS PROTRUDE INTO FLOW.
 4. THICKNESS OF RIFFLE SUBSTRATE AT CREST IS 2-3 TIMES THE LARGEST MATERIAL.
 5. FILL VOIDS IN RIFFLE WITH PIT RUN AND/OR NATIVE MATERIALS.
 6. TAPER GRAIN SIZE AND BED THICKNESS DOWNSTREAM AND UPSTREAM OF CREST.
 7. RIFFLE MATERIALS SHOULD EXTEND OVER LIP OF THE DEPRESSION.
 8. SPREAD REMAINING ROCK ON RIFFLE TO ATTAIN RIFFLE ANGLE.
 9. RIFFLE LENGTH IS DETERMINED FROM PROFILE.
 10. SUBSTRATE TO BE PLACED DIRECTLY ON NATURAL MATERIALS (DO NOT USE FILTER CLOTH, ETC).
 11. SUBSTRATE TO BE MECHANICALLY COMPACTED TO MINIMIZE INTERSTITIAL SPACING.



1	TR	MO	12/08/25	DETAILED DESIGN SUBMISSION	
0	TR	MO	10/03/25	DRAFT DETAILED DESIGN	
Revision	By	Chk'd By	dd/mm/yy Date	Comments	



Client:			PROLOGIS - HUMBER STATION		
Project:			DETAILED CHANNEL REALIGNMENT AND WETLAND RELOCATION DESIGN		
Drawing Title:			CONSTRUCTION DETAILS		
Scale:	AS SHOWN	Date:	MAR. 10, 2025	Drawing No.	CD
Drawn by:	TR	Checked by:	MO	Sheet No.	09
Designed by:	MO	Approved by:	RM		

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