

APPENDIX

E

PLANS AND DETAILS



MUNICIPALITY OF BOISSEVAIN-MORTON BOISSEVAIN WASTEWATER TREATMENT LAGOON

BOISSEVAIN, MB

ISSUED FOR APPROVALS

WSP Project No: CA0017817.1877

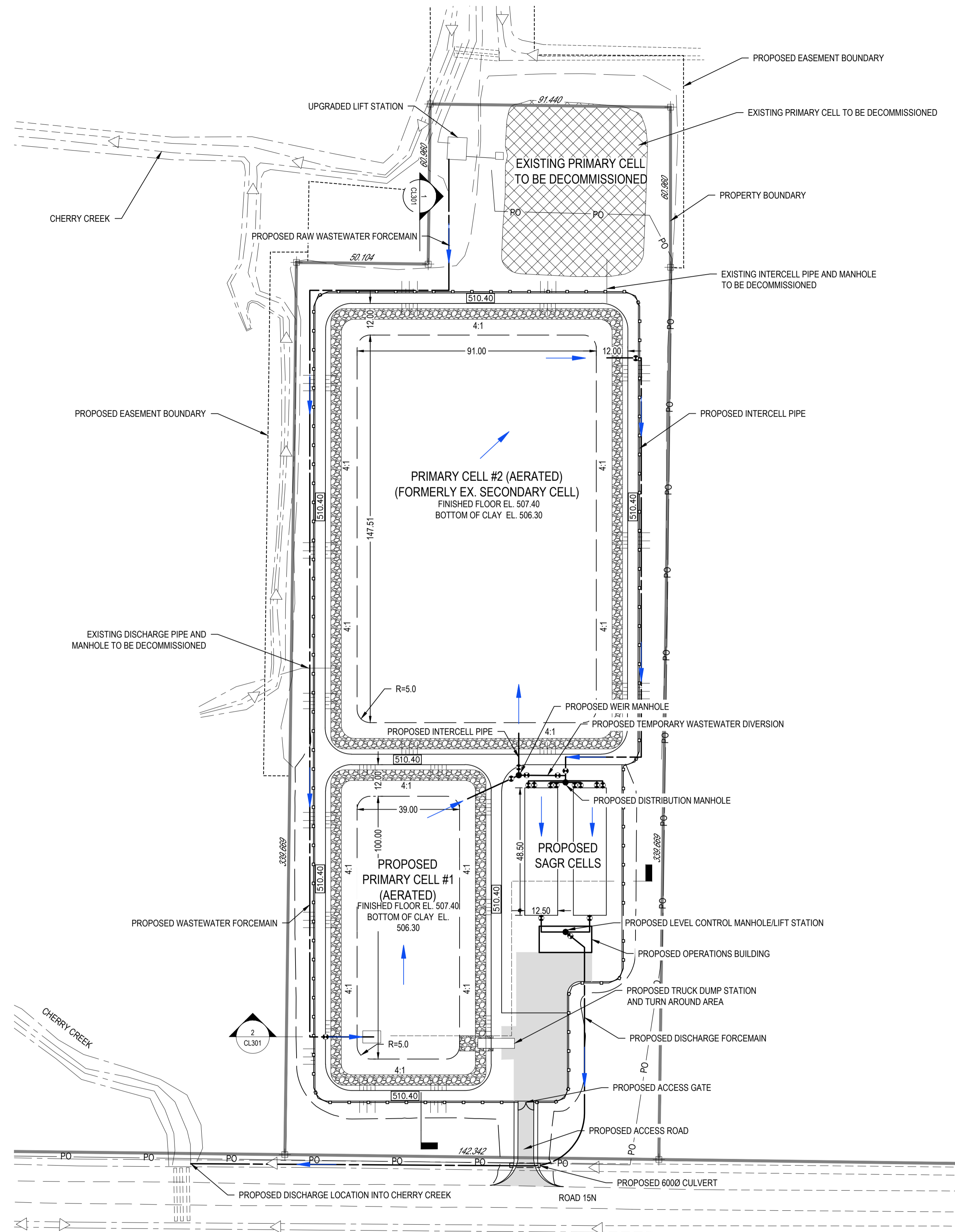
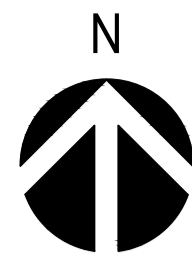
Date: DECEMBER 20, 2024

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NOT FOR CONSTRUCTION



CL101	EXISTING SITE PLAN
CL102	PROPOSED SITE PLAN
CL103	PROPOSED SITE PLAN - CONSTRUCTION PHASING
CL104	PROPOSED BORROW AREA
CL301	LAGOON SECTIONS
CL501	MISCELLANEOUS DETAILS
CL502	TRUCK DUMP RAMP

We see the future more clearly and design for it today.



- KEY NOTES:
1. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
 2. DESCRIPTION OF PROPERTY LIMITS, AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN ON THIS DRAWING DO NOT REPRESENT A LEGAL SURVEY. WSP MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION IS ACCURATE. WSP ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.
 3. DRAWING IS IN METRIC. WHOLE NUMBERS INDICATE MILLIMETRES, AND DECIMALIZED NUMBERS INDICATE METRES.
 4. BENCHMARK - 500.501. MGSP LOCATED AT NORTHEAST CORNER OF NE QUARTER OF SECTION 2-4-20 WPM.

EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATER MAIN	150 WM
300 LDS	LAND DRAINAGE SEWER	300 LDS
250 WWS	WASTE WATER SEWER	250 WWS
250 FM	FORCEMAIN	250 FM
	EDGE OF ROAD / DYKE	
	DYKE TOE	
	APPROX. PROPERTY LINE	
	FENCE	
	TREE OR SHRUB LINE	
000.00	EXISTING MAJOR CONTOURS	
	EXISTING MINOR CONTOURS	
	FLOW DIRECTION	
	DITCH/SWALE	
	CULVERT	
59.367	GROUND ELEVATION	
00.00	ROAD ELEVATION	00.00
00.00	DYKE ELEVATION	00.00
00.00	DITCH ELEVATION	00.00
	SIGN / SURVEY BAR	
	TEST HOLE/TEST PIT	
	GUY WIRE / HYDRO POLE	
	CURB STOP / PLUG	
	VALVE / HYDRANT	
	MANHOLE / CLEANOUT	
	BOLLARD	
	WETLAND CATTAIL SEEDING AREA (1.05 ha)	
	CLAY CORE HYDRAULIC CONDUCTIVITY < 1x10 ⁻⁶ cm/s	
	GRANULAR	
	RIP RAP	
	CONCRETE	

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REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY
A	2024/12/20	ISSUED FOR APPROVALS	DTG				

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ORIGINAL SCALE: 1:1000
 DESIGNED BY: J.S.B. / B.E.L.
 ASSISTED BY: D.T.G.B.
 DRAWN BY: B.E.L.
 MODIFIED BY: B.E.L.
 APPROVED BY: D.T.G.B.
 DISCIPLINE: INFRASTRUCTURE

DATE: 2024/05/06

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THE MANITOBA WATER SERVICES BOARD

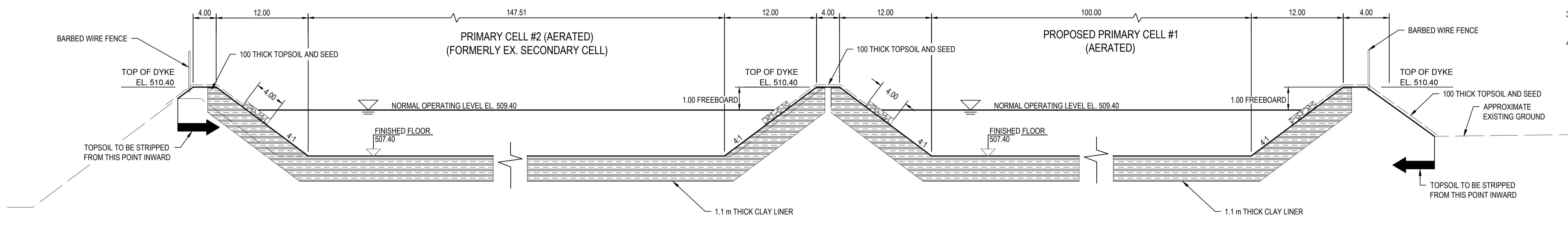
PROJECT NUMBER: CA0017817.1877 CLIENT REF. #: MWSP 25-53

TITLE: PROPOSED SITE PLAN

PROJECT: BOISSEVAIN-MORTON WASTEWATER TREATMENT LAGOON

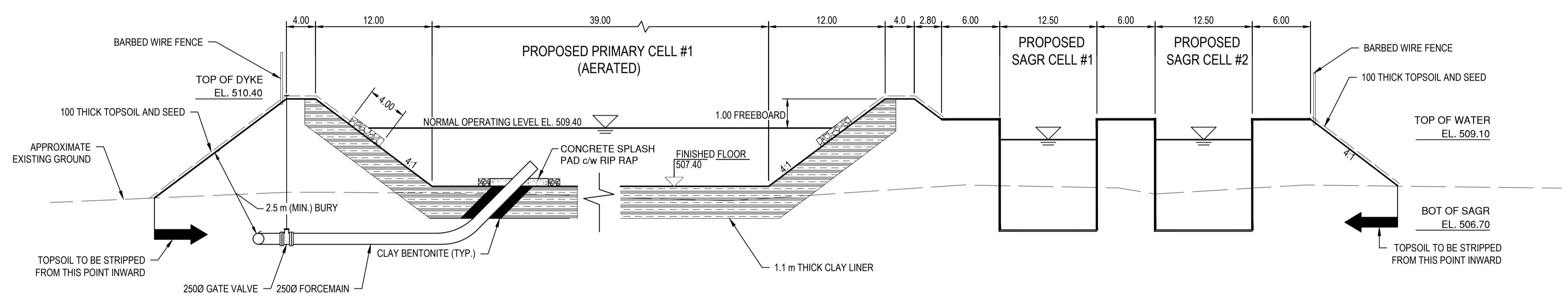
DRAWING NUMBER: CL102 REV: A

- KEY NOTES:
1. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
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1 N/S SECTION
CL102 SCALE: NTS

- COMPACTED CLAY LINER WITH HYDRAULIC CONDUCTIVITY $< 1 \times 10^{-7}</math> cm/s$
- CLAY BENTONITE
- RIP RAP
- CONCRETE



2 W/E SECTION
CL102 SCALE: NTS

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A	2024/12/20	ISSUED FOR APPROVALS	DTGB				

SEAL:

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 ASSISTED BY: D.T.G.B.
 DRAWN BY: B.E.L.
 MODIFIED BY: B.E.L.
 APPROVED BY: D.T.G.B.
 DISCIPLINE: INFRASTRUCTURE

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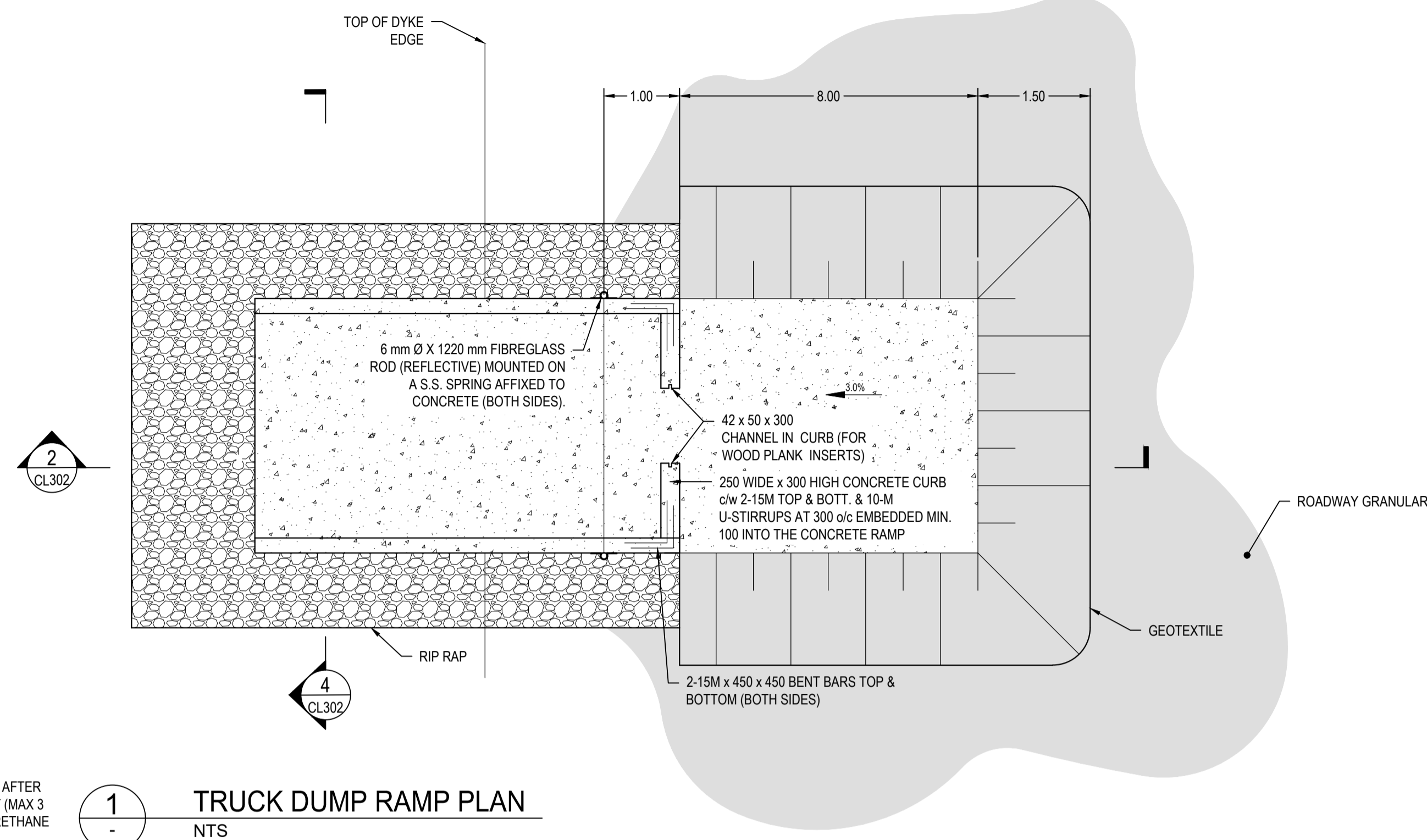
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TITLE: LAGOON SECTIONS

PROJECT: BOISSEVAIN-MORTON WASTEWATER TREATMENT LAGOON

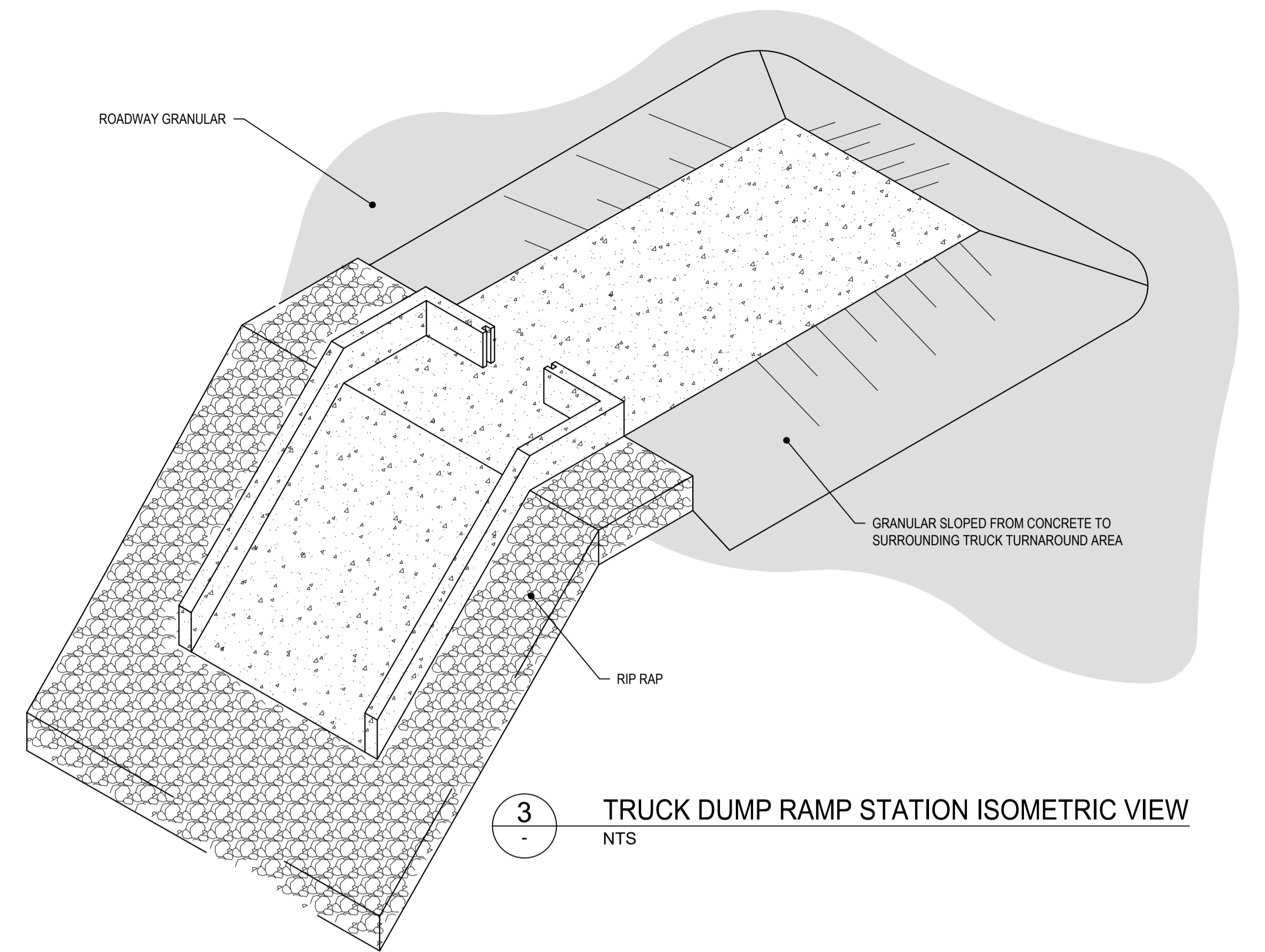
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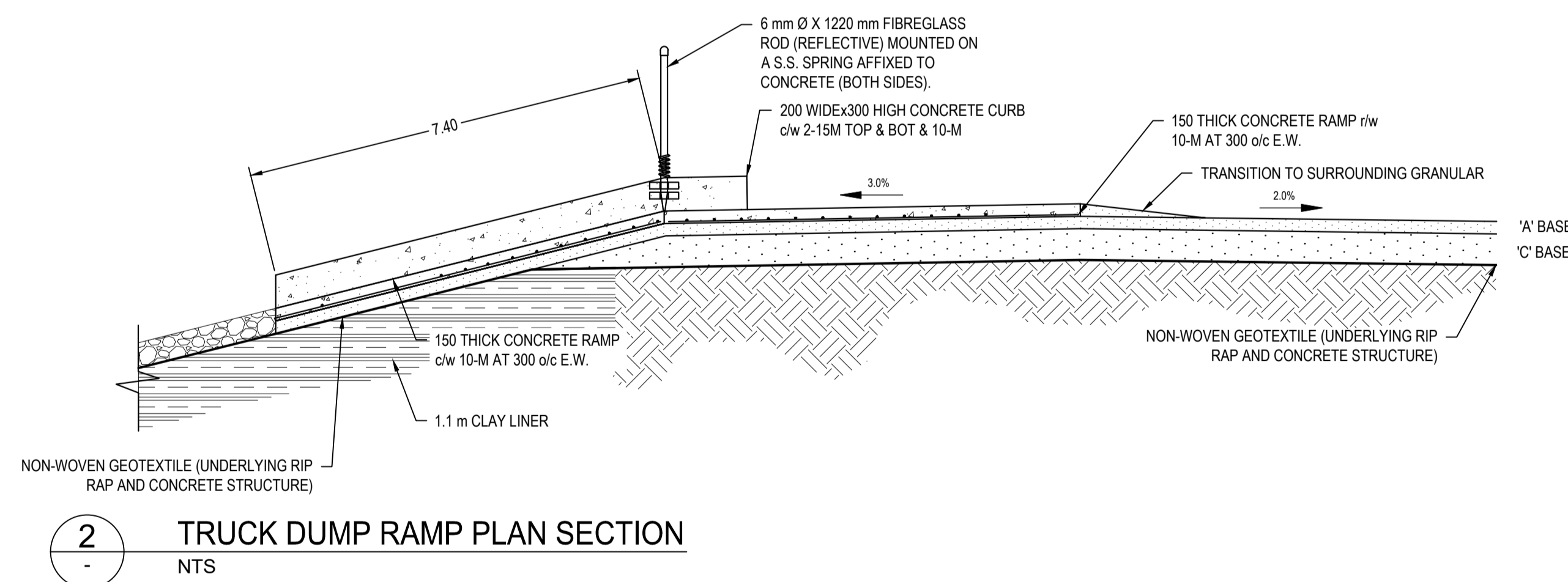


- NOTES:
- REFER TO SPECIFICATIONS FOR CONCRETE DETAILS
 - TRUCK DUMP RAMP SHALL BE A MONOLITHIC CONCRETE POUR
 - SAWCUT EVERY 3.0 m DOWN RAMP AFTER CONCRETE HAS SUFFICIENTLY SET (MAX 3 DAYS). APPLY 2 PARTS OF POLYURETHANE CAULKING.

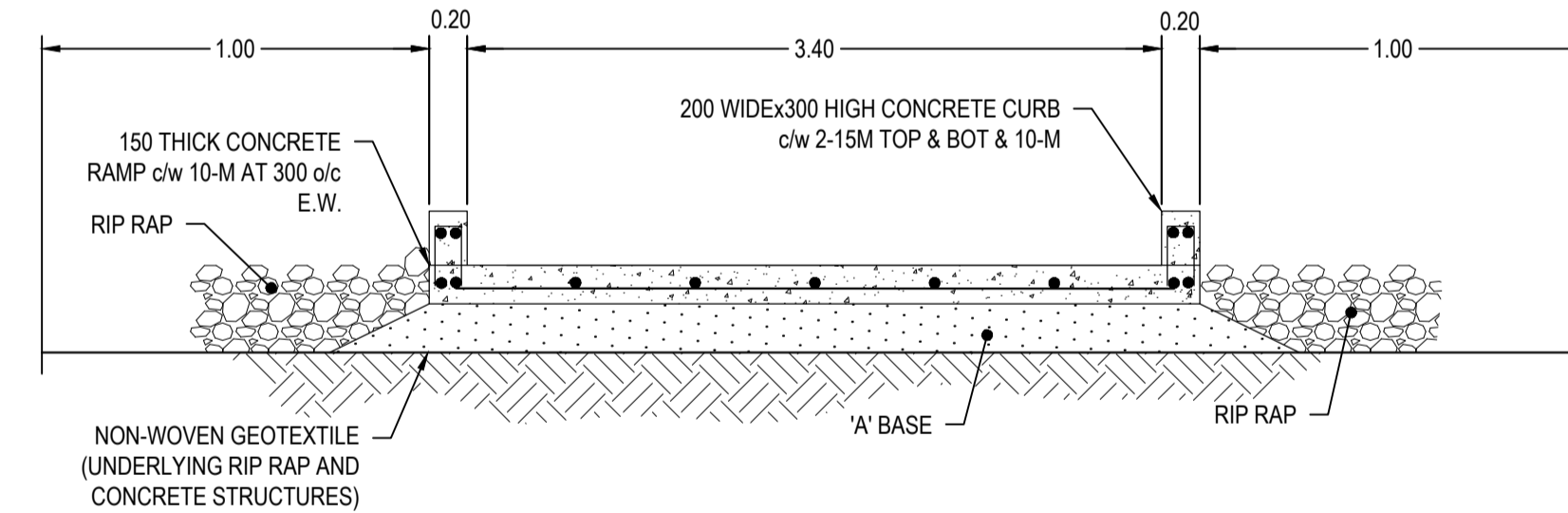
1 TRUCK DUMP RAMP PLAN
NTS



3 TRUCK DUMP RAMP STATION ISOMETRIC VIEW
NTS



2 TRUCK DUMP RAMP PLAN SECTION
NTS



4 TRUCK DUMP RAMP PLAN SECTION
NTS

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ASSISTED BY: D.T.G.B.

DRAWN BY: B.E.L.

MODIFIED BY: B.E.L.

APPROVED BY: D.T.G.B.

DISCIPLINE: INFRASTRUCTURE

DATE: 2024/05/06

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25mm

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CLIENT:

CLIENT REF. #: MWSB 25-53

TITLE: TRUCK DUMP RAMP

PROJECT: BOISSEVAIN-MORTON WASTEWATER TREATMENT LAGOON

DRAWING NUMBER: CL502

REV: A

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