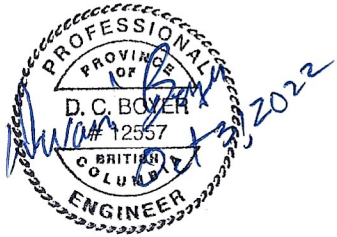




CARPENTER CREEK RIPRAP
REPAIR SITE 'C'

DRAWING SCHEDULE	
PLAN VIEW	100-01
CROSS SECTIONS	100-02
CROSS SECTIONS	100-03
CROSS SECTIONS	100-04
CROSS SECTIONS	100-05
CROSS SECTIONS	100-06
CROSS SECTIONS	100-07
CONSTRUCTION NOTES	100-08

NOTE: LOCATIONS OF RIPRAP REPAIR SITE A AND B TO BE
DELINEATED BY SNT GEOTECHNICAL LTD. PRIOR TO CONSTRUCTION

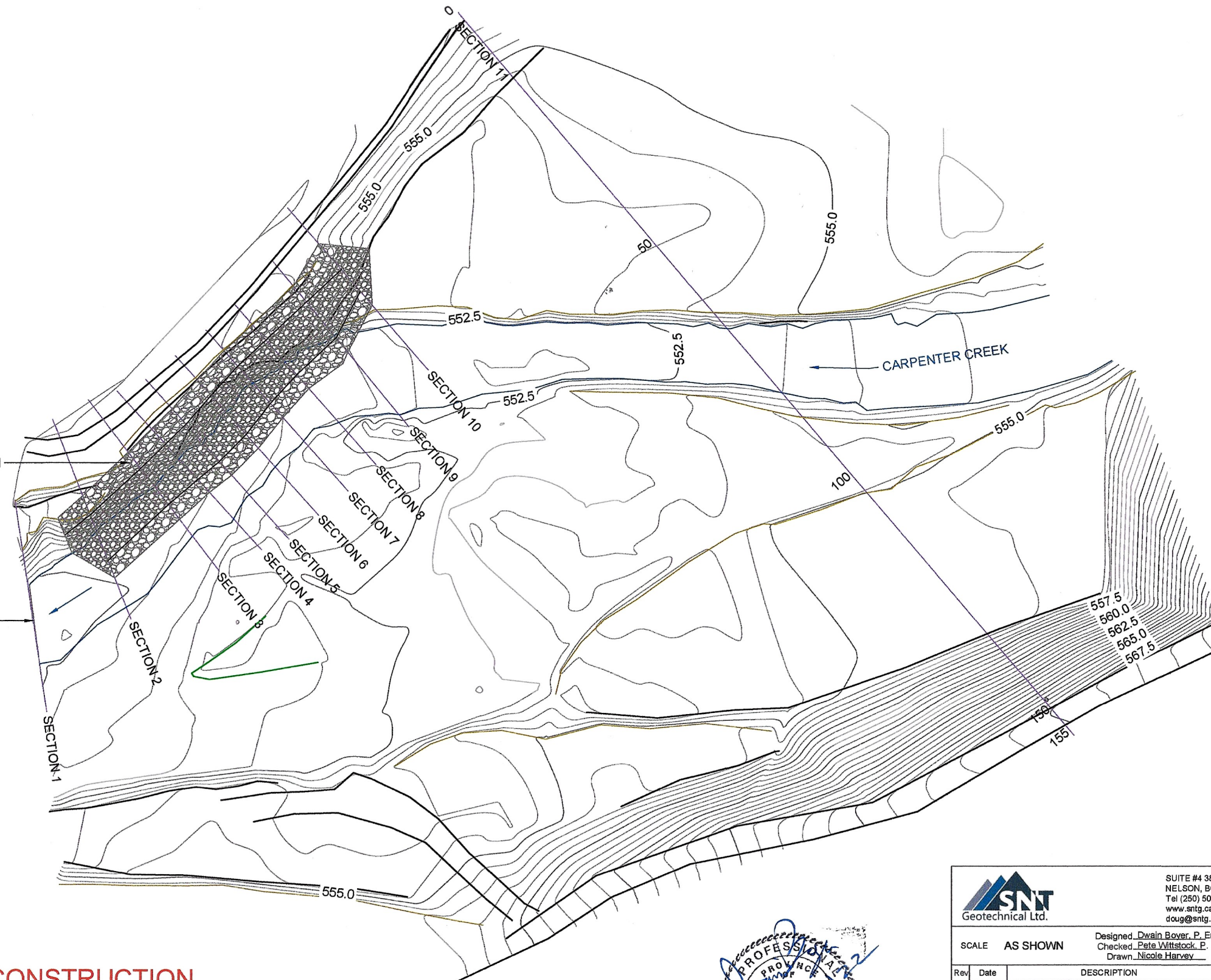


SNTG Permit Number 1001083



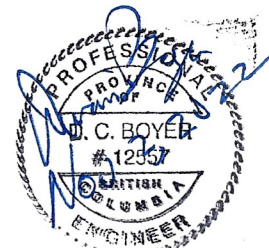
EXISTING BANK LOCATION


HWY 6 BRIDGE



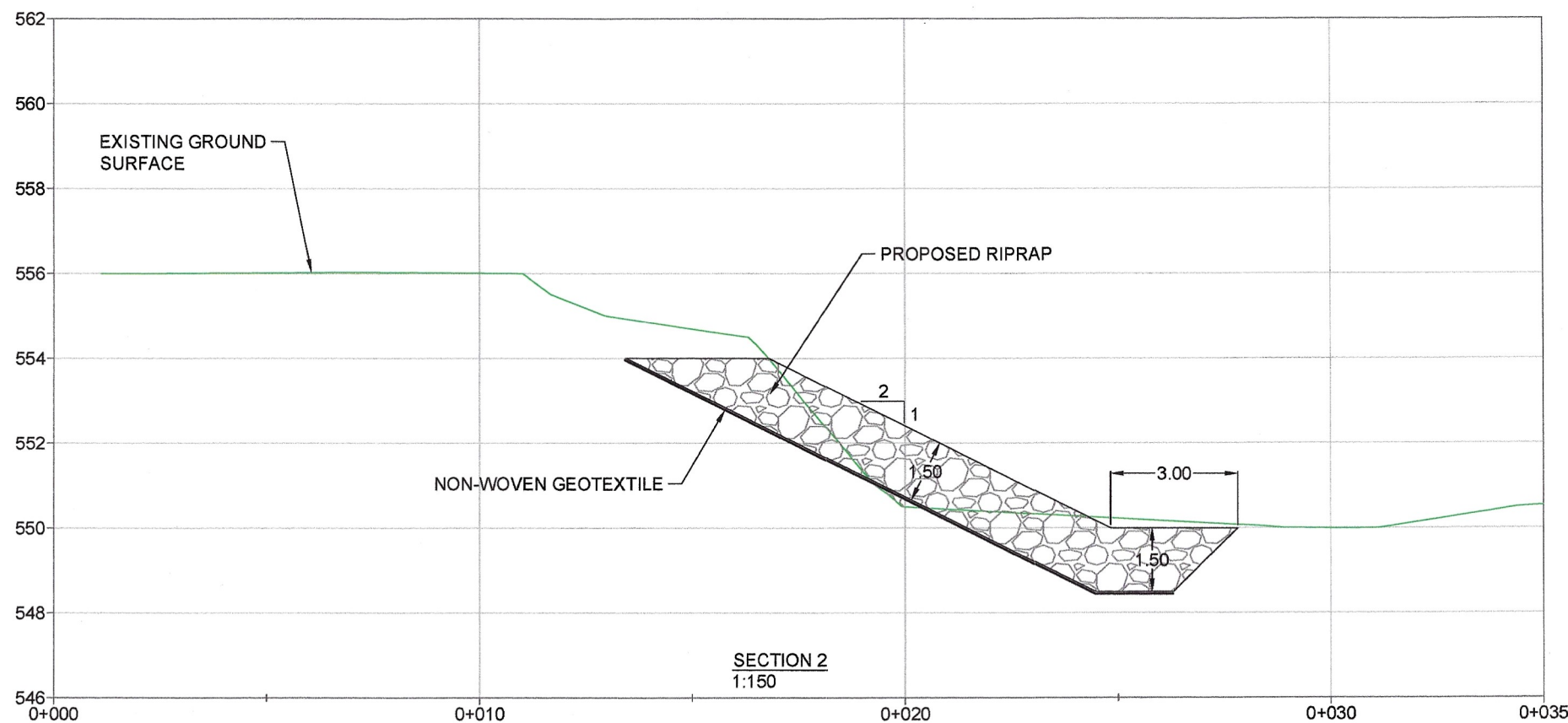
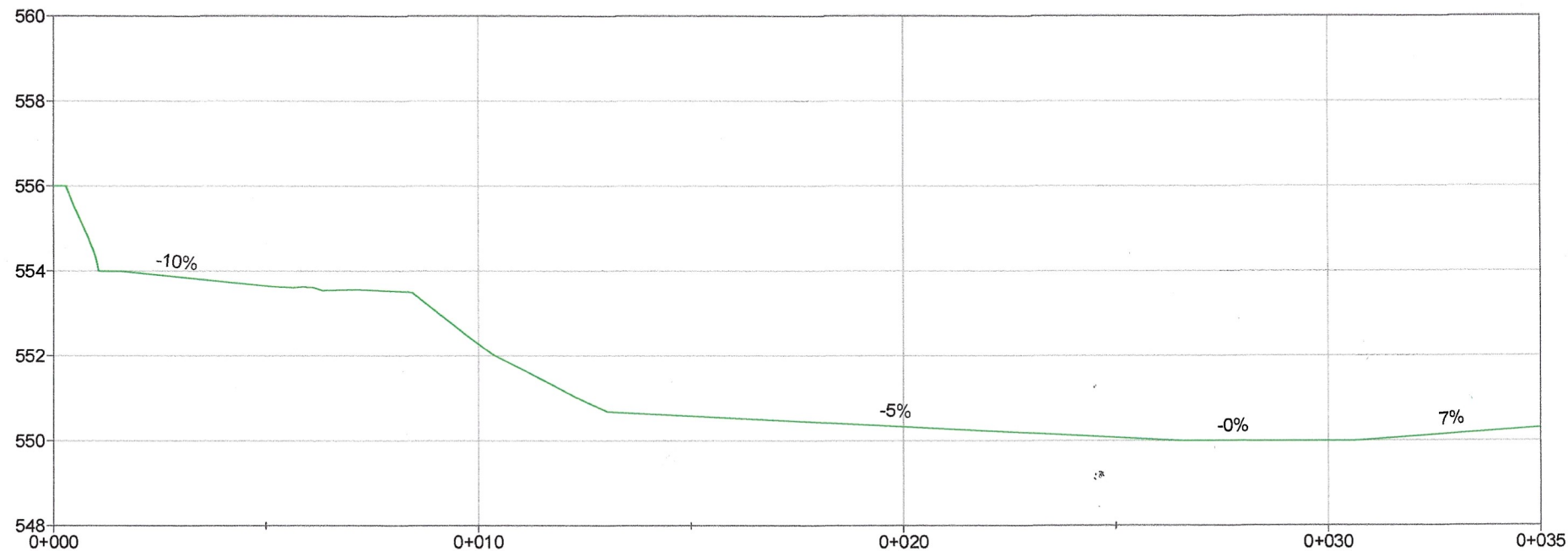
ISSUED FOR CONSTRUCTION

0 6 1:750 36m



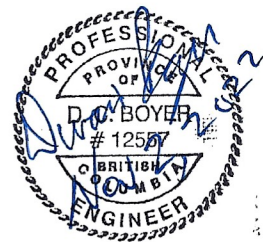
		SUITE #4 385 BAKER STREET NELSON, BC, V1L 4H6 Tel (250) 509-1009 www.sntg.ca doug@sntg.ca		CARPENTER CREEK RIPRAP REPAIR	
SCALE AS SHOWN		Designed: Dwain Boyer, P. Eng. Date Nov. 2, 2022 Checked: Pete Wittstock, P. Eng. Date Nov. 2, 2022 Drawn: Nicole Harvey Date Nov. 2, 2022		NEW DENVER DFA REPAIRS SITE 'C'	
Rev	Date	DESCRIPTION	Init	DRAWING TITLE: SITE PLAN AND CROSS SECTION LOCATIONS	
0	02/11/22	ISSUED FOR CONSTRUCTION		ORIGINAL SIGNED and SEALED BY: DWAIN BOYER, P.ENG.	
0	27/12/21	ISSUED TO CLIENT FOR DISCUSSIONS PURPOSES ONLY		DESIGN ENGINEER: DWAIN BOYER, P.ENG.	
REVISIONS				FILE No.	DRAWING No.
				21.510.15.01	100-01

CANCEL PRINTS BEARING
PREVIOUS LETTER



ISSUED FOR CONSTRUCTION

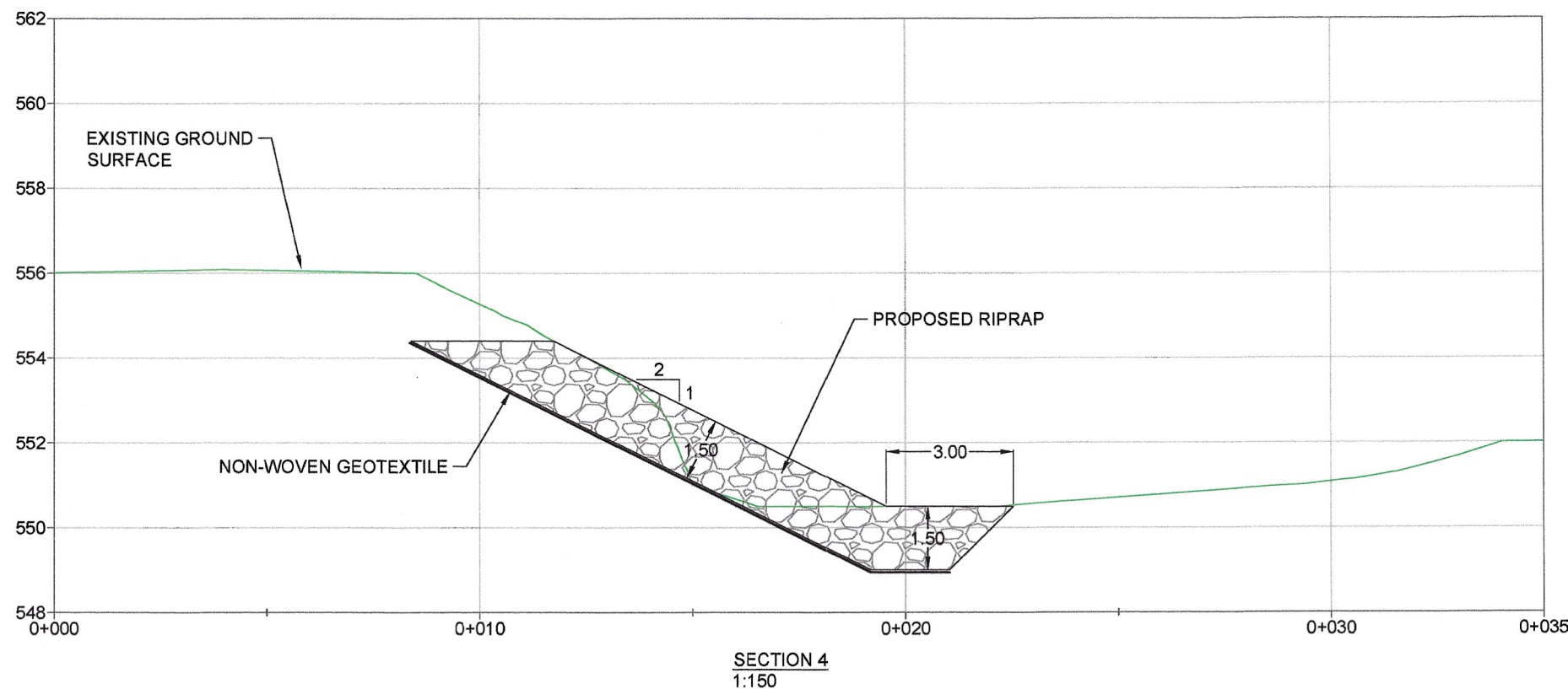
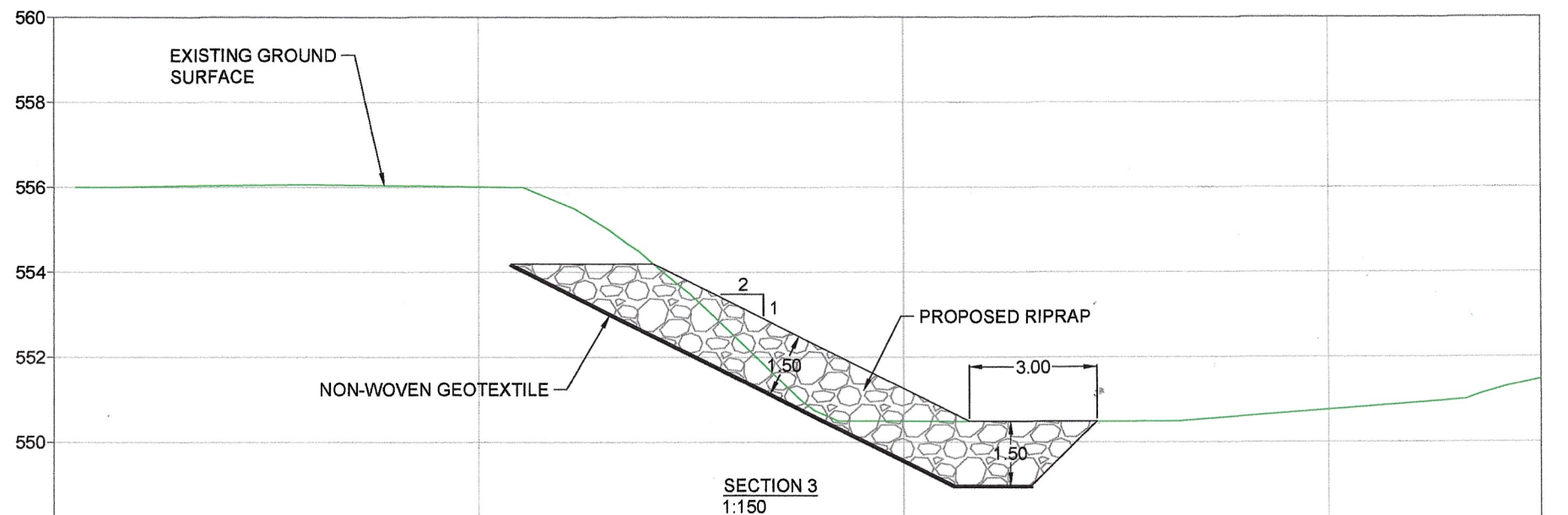
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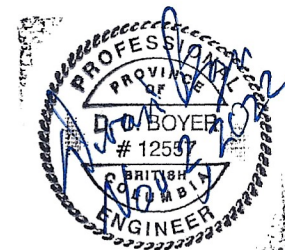
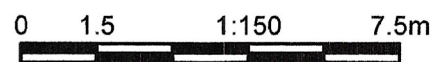
RIPRAP SPECIFICATIONS (SITE 'C')		
SIZE (PERCENT PASSING)	B- AXIS DIAMETER (mm)	ROCK MASS (kg)
D ₁₅	400	75
D ₅₀	940	1200
D ₈₅	1200	2250
D _{MAX}	1500	4000

		SUITE #4 385 BAKER STREET NELSON, BC, V1L 4H6 Tel (250) 509-1009 www.sntg.ca doug@sntg.ca		CARPENTER CREEK RIPRAP REPAIR	
SCALE AS SHOWN		Designed <u>Dwain Boyer, P. Eng.</u> Date <u>Nov. 2, 2022</u> Checked <u>Pete Wittstock, P. Eng.</u> Date <u>Nov. 2, 2022</u> Drawn <u>Nicole Harvey</u> Date <u>Nov. 2, 2022</u>		NEW DENVER DFA REPAIRS SITE 'C'	
Rev	Date	DESCRIPTION	Init	DRAWING TITLE: CROSS SECTIONS	
0	02/11/22	ISSUED FOR CONSTRUCTION		ORIGINAL SIGNED and SEALED BY: DWAIN BOYER, P.ENG.	
0	27/12/21	ISSUED TO CLIENT FOR DISCUSSIONS PURPOSES ONLY		DESIGN ENGINEER: DWAIN BOYER, P.ENG.	
		REVISIONS		FILE No.	DRAWING No.
				21.510.15.01	100-02

CANCEL PRINTS BEARING
PREVIOUS LETTER

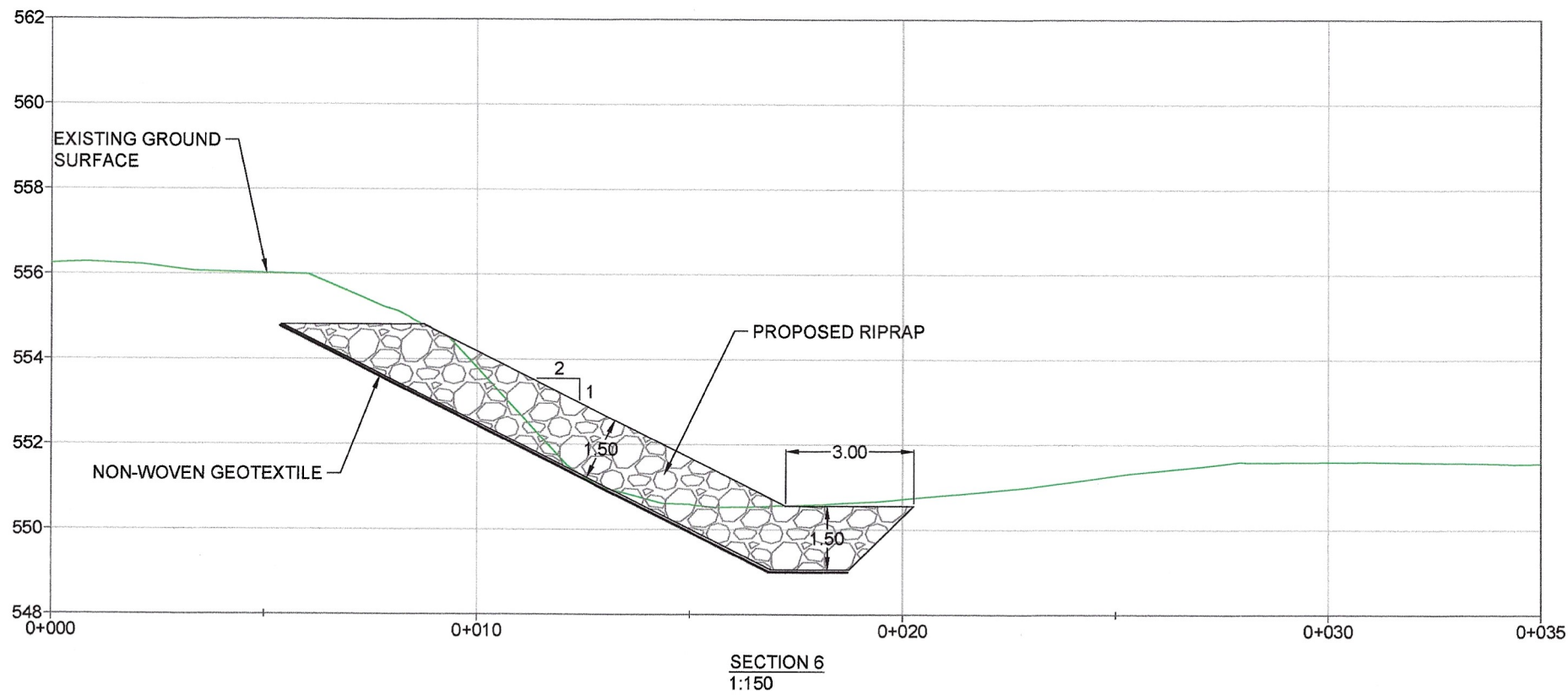
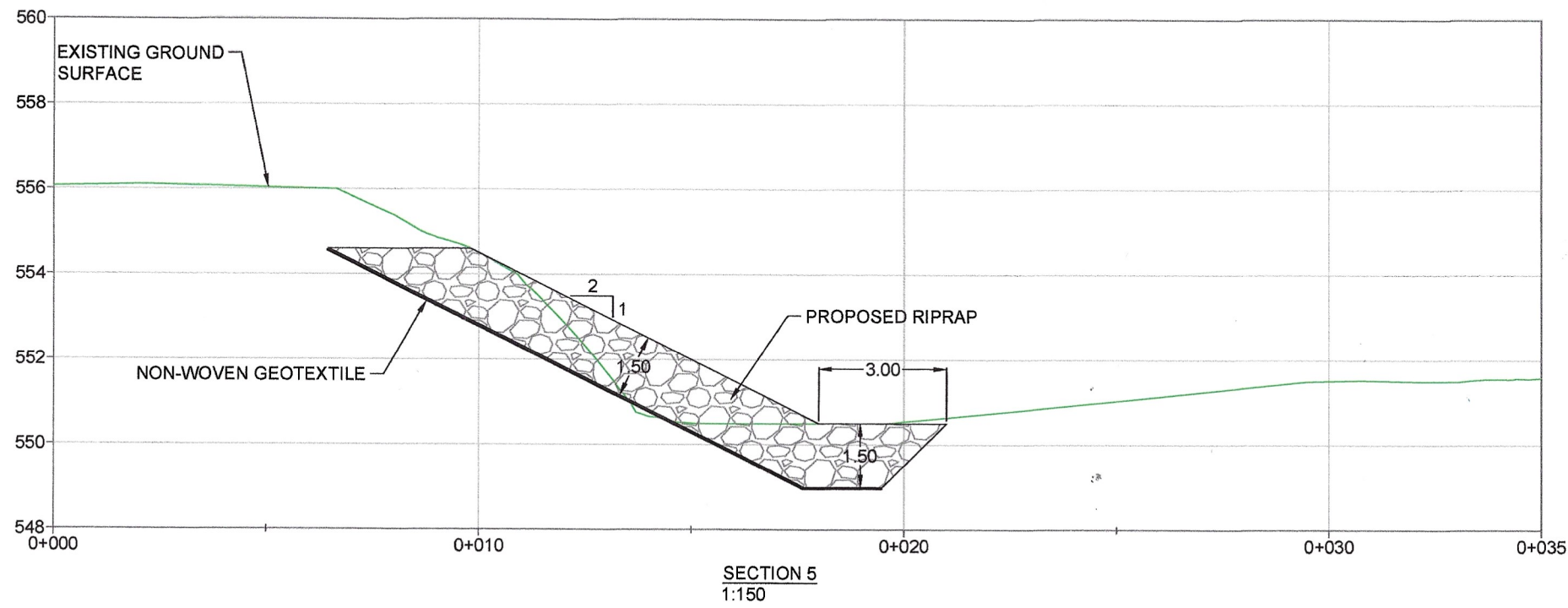


ISSUED FOR CONSTRUCTION



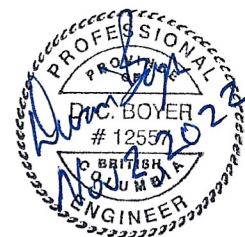
		SUITE #4 385 BAKER STREET NELSON, BC, V1L 4H6 Tel (250) 509-1009 www.sntg.ca doug@sntg.ca		CARPENTER CREEK RIPRAP REPAIR	
SCALE AS SHOWN		Designed: Dwain Boyer, P. Eng. Date: Nov. 2, 2022 Checked: Pete Wittstock, P. Eng. Date: Nov. 2, 2022 Drawn: Nicole Harvey Date: Nov. 2, 2022		NEW DENVER DFA REPAIRS SITE 'C'	
Rev	Date	DESCRIPTION	Init	DRAWING TITLE: CROSS SECTIONS	
0	02/11/22	ISSUED FOR CONSTRUCTION		ORIGINAL SIGNED and SEALED BY: DWAIN BOYER, P.ENG.	
0	27/12/21	ISSUED TO CLIENT FOR DISCUSSIONS PURPOSES ONLY		DESIGN ENGINEER: DWAIN BOYER, P.ENG.	
		REVISIONS		FILE No. 21.510.15.01	DRAWING No. 100-03

CANCEL PRINTS BEARING
PREVIOUS LETTER

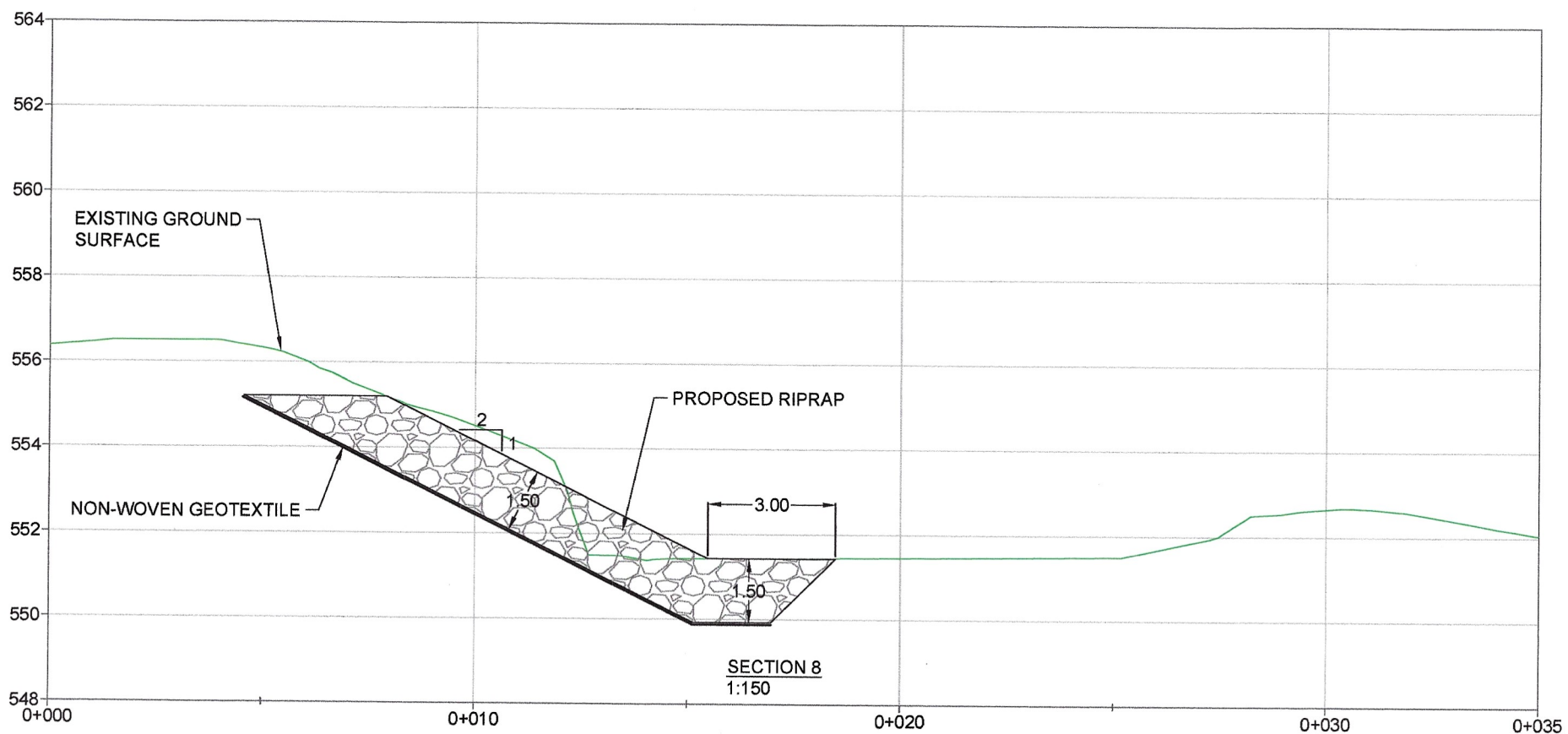
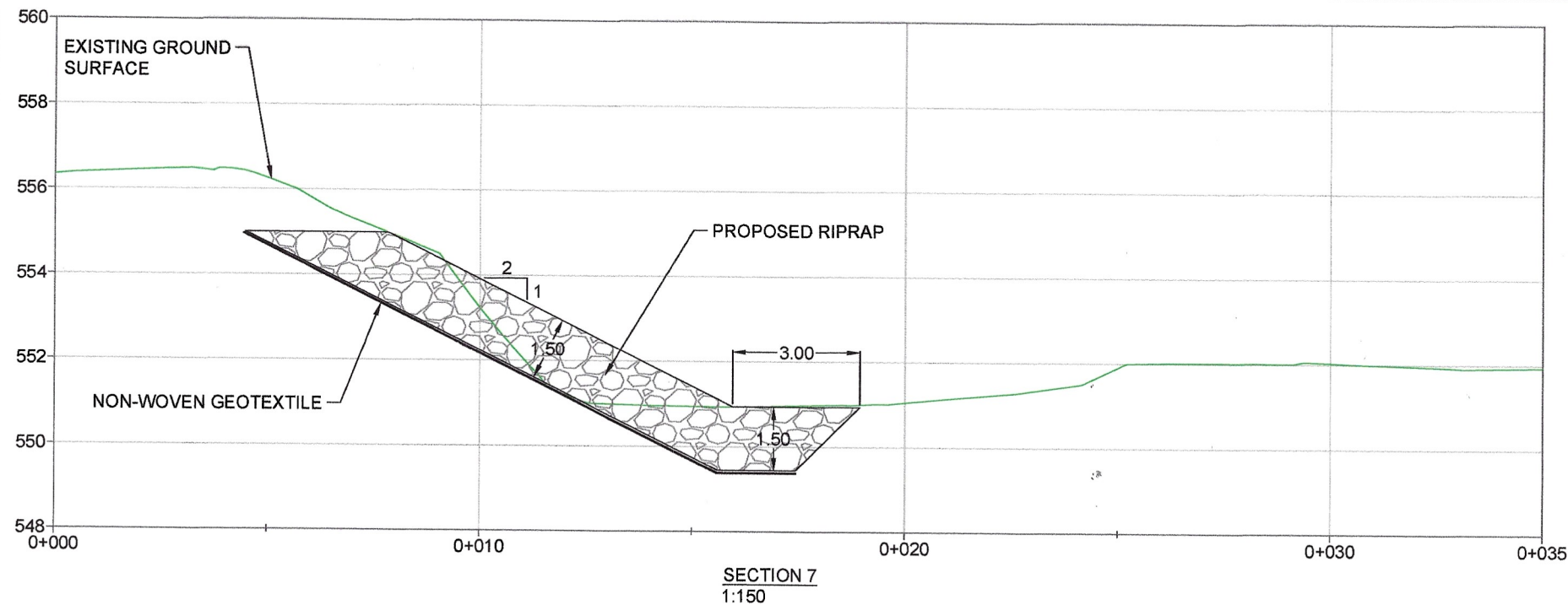


ISSUED FOR CONSTRUCTION

0 1.5 1:150 7.5m



		SUITE #4 385 BAKER STREET NELSON, BC, V1L 4H6 Tel (250) 509-1009 www.sntg.ca doug@sntg.ca		CARPENTER CREEK RIPRAP REPAIR	
SCALE AS SHOWN		Designed <u>Dwain Boyer, P. Eng.</u> Date <u>Nov. 2, 2022</u> Checked <u>Pete Wittstock, P. Eng.</u> Date <u>Nov. 2, 2022</u> Drawn <u>Nicole Harvey</u> Date <u>Nov. 2, 2022</u>		NEW DENVER DFA REPAIRS SITE 'C'	
Rev	Date	DESCRIPTION	Init	DRAWING TITLE: CROSS SECTIONS	
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0	27/12/21	ISSUED TO CLIENT FOR DISCUSSIONS PURPOSES ONLY		DESIGN ENGINEER: DWAIN BOYER, P.ENG.	
REVISIONS				FILE No. 21.510.15.01	DRAWING No. 100-04
				CANCEL PRINTS BEARING PREVIOUS LETTER	



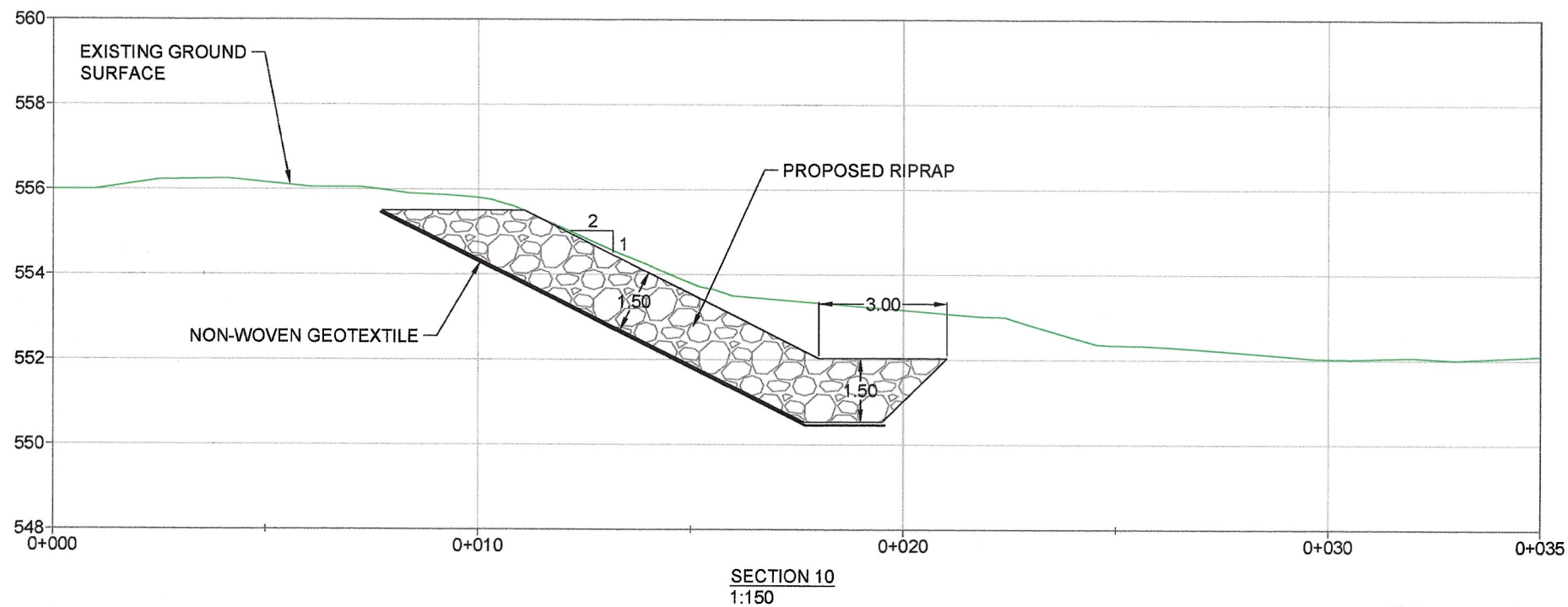
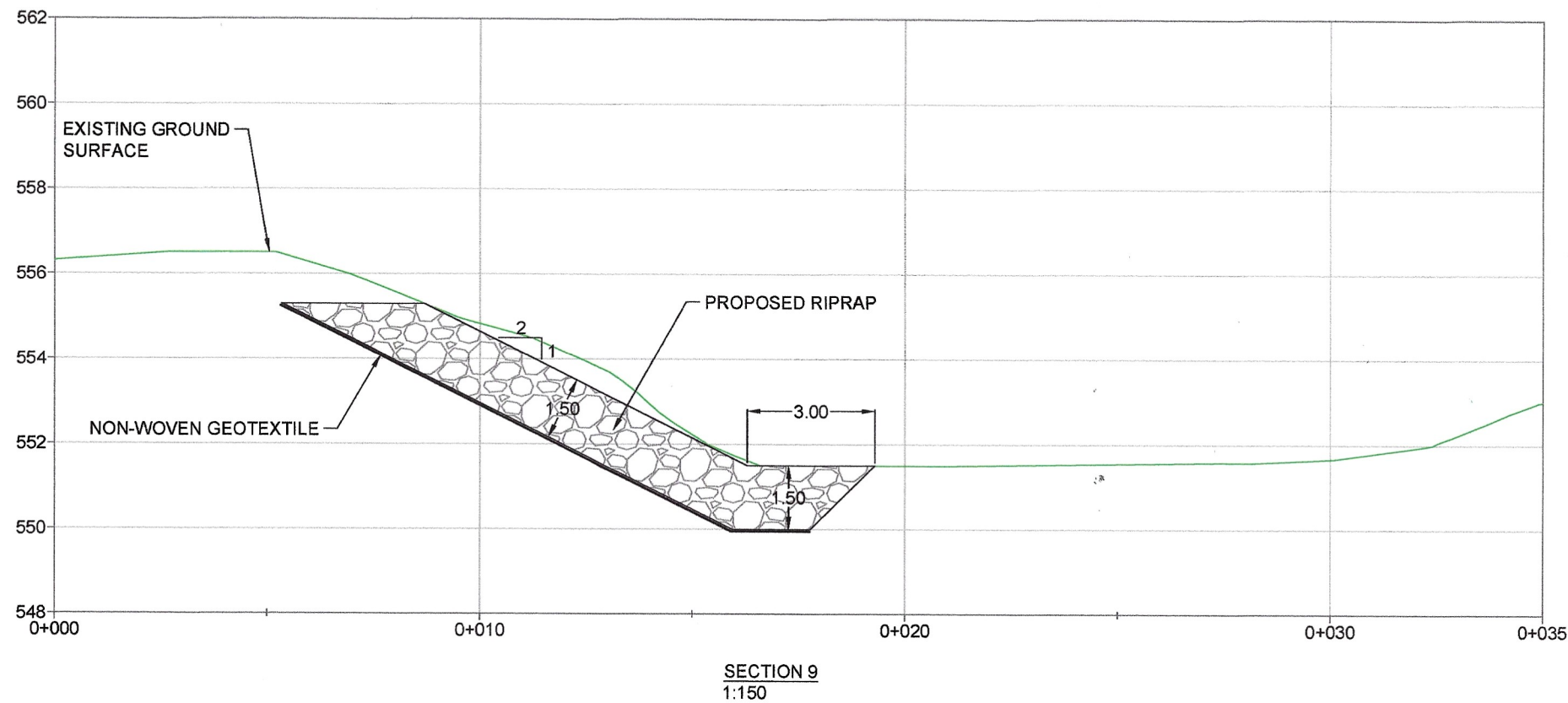
ISSUED FOR CONSTRUCTION

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		SUITE #4 385 BAKER STREET NELSON, BC V1L 4H6 Tel (250) 509-1009 www.sntg.ca doug@sntg.ca		CARPENTER CREEK RIPRAP REPAIR	
SCALE AS SHOWN		Designed <u>Dwain Boyer, P. Eng.</u> Date <u>Nov. 2, 2022</u> Checked <u>Pete Wittstock, P. Eng.</u> Date <u>Nov. 2, 2022</u> Drawn <u>Nicole Harvey</u> Date <u>Nov. 2, 2022</u>		NEW DENVER DFA REPAIRS SITE 'C'	
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0	27/12/21	ISSUED TO CLIENT FOR DISCUSSIONS PURPOSES ONLY		DESIGN ENGINEER: DWAIN BOYER, P.ENG.	
REVISIONS				FILE No.	DRAWING No.
				21.510.15.01	100-05

CANCEL PRINTS BEARING
PREVIOUS LETTER



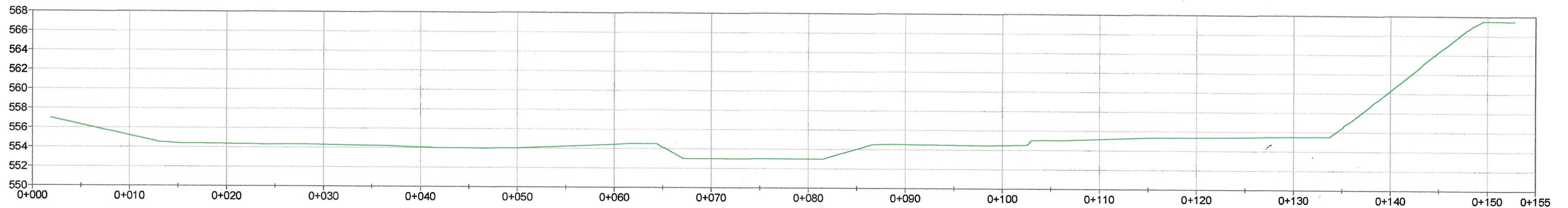
ISSUED FOR CONSTRUCTION

0 1.5 1:150 7.5m



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SCALE AS SHOWN		Designed <u>Dwain Boyer, P. Eng.</u> Date <u>Nov. 2, 2022</u> Checked <u>Pete Wittstock, P. Eng.</u> Date <u>Nov. 2, 2022</u> Drawn <u>Nicole Harvey</u> Date <u>Nov. 2, 2022</u>		NEW DENVER DFA REPAIRS SITE 'C'	
Rev	Date	DESCRIPTION	Init	DRAWING TITLE: CROSS SECTIONS	
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0	27/12/21	ISSUED TO CLIENT FOR DISCUSSIONS PURPOSES ONLY		DESIGN ENGINEER: DWAIN BOYER, P.ENG.	
REVISIONS		FILE No. 21.510.15.01		DRAWING No. 100-06	

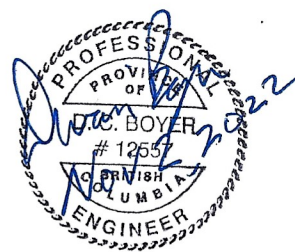
CANCEL PRINTS BEARING
PREVIOUS LETTER




SECTION11
1:400

ISSUED FOR CONSTRUCTION

0 4.0 1:400 20m



		SUITE #4 385 BAKER STREET NELSON, BC, V1L 4H6 Tel (250) 509-1009 www.sntg.ca doug@sntg.ca		CARPENTER CREEK RIPRAP REPAIR	
SCALE AS SHOWN		Designed <u>Dwain Boyer, P. Eng.</u> Date <u>Nov. 2, 2022</u> Checked <u>Pete Wittstock, P. Eng.</u> Date <u>Nov. 2, 2022</u> Drawn <u>Nicole Harvey</u> Date <u>Nov. 2, 2022</u>		NEW DENVER DFA REPAIRS SITE 'C'	
Rev	Date	DESCRIPTION	Init	DRAWING TITLE: CROSS SECTIONS	
				ORIGINAL SIGNED and SEALED BY:	
				DWAIN BOYER, P.ENG.	
				DESIGN ENGINEER:	
				DWAIN BOYER, P.ENG.	
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				21.510.15.01	100-07
				REVISIONS	

CANCEL PRINTS BEARING
PREVIOUS LETTER

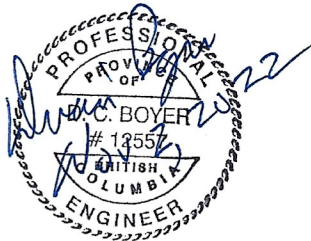
NOTES:


1. RIPRAP SIZE AND GRADUATION REQUIREMENTS ARE SHOWN IN TABLE 1:

TABLE 1: RIPRAP SIZES AND GRADATION		
SITE	A & B	C
D15; mm (KG)	300 (25)	400 (75)
D50; mm (KG)	600 (250)	940 (850)
D85; mm (KG)	900 (750)	1200 (2250)
RIPRAP LAYER THICKNESS; (m)	1	1.5

2. RIPRAP TO BE TRANSPORTED TO THE SITES FROM STOCKPILE ON SOUTHEAST SIDE OF HWY 6 BRIDGE
3. EXISTING NON-ACID GENERATING ROCK AT SITE C TO BE SALVAGED AND REUSED BY MIXING WITH ROCK TRANSPORTED TO THE SITE
4. ANY ACID GENERATING ROCK ENCOUNTERED DURING THE EXCAVATION AT SITE C SHALL NOT BE REUSED AND SHALL BE DISPOSED OF AS SPECIFIED BY POR
5. GEOTEXTILE TO BE NILEX NONWOVEN 4512 OR EQUIVALENT. GEOTEXTILE TO BE PLACED BETWEEN ROCK FILL AND SOILS, GEOTEXTILE TO BE PLACED PERPENDICULAR TO THE CHANNEL FLOW DIRECTION WITH A MINIMUM 0.5M OVERLAP UPSTREAM TO DOWNSTREAM
6. A DOUBLE LAYER OF GEOTEXTILE TO BE PLACED ALONG THE BOTTOM OF THE PREPARED BANK SLOPE
7. SPECIAL MEASURES, AS SPECIFIED BY THE SITE ENVIRONMENTAL MONITOR, WILL BE UNDERTAKEN TO REDUCE THE FLOW OF WATER AND PROTECT FISH AND FISH HABITAT AS THE TOE TRENCH IS EXCAVATED IN THE STREAM SUBSTRATE AT THE BASE OF THE SLOPE
8. THE LOCATION AND EXTENT OF RIPRAP PLACEMENT AT SITES A AND B WILL BE DESCRIBED AND FLAGGED BY THE POR PRIOR TO PROJECT STARTUP. SPECIAL MEASURES TO PROTECT FISH AND FISH HABITAT DURING THE EXCAVATION OF THE TOE TRENCH AND/OR PLACEMENT OF ROCK ON THE STREAM SUBSTRATE AT THE BASE OF THE SLOPE WILL BE PROVIDED BY THE ENVIRONMENTAL MONITOR
9. RIPRAP QUANTITIES HAVE BEEN ESTIMATED FROM THE DRAWINGS AND RIPRAP SPECIFICATIONS ARE SHOWN IN TABLE 1. RIPRAP SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, RESISTANT TO WEATHERING AND WATER ACTION, FREE FROM OVERBURDEN, SOIL, SILT AND CLAY OR ORGANIC MATERIAL. THE ROCK SHALL BE FREE FROM SEAMS, CRACKS, CLEAVAGE PLANES AND LAMINATIONS. RIPRAP SHALL BE BLOCKY IN SHAPE, WITH THE AVERAGE RATIO OF THE LONG AXIS TO THE THICKNESS FOR AN INDIVIDUAL ROCK TO BE LESS THAN 2.
10. RIPRAP TO BE PLACED AS SHOWN ON THE DRAWINGS. PLACEMENT METHODOLOGY MUST ENSURE NO SEGREGATION OF ROCK AND MUST MINIMIZE VOID SPACES. CONTRACTOR MUST "COMPACT" RIPRAP WITH THE EXCAVATOR BUCKET, AS DIRECTED AND APPROVED BY THE POR.
11. ALL WORKS SHALL BE APPROVED BY THE POR PRIOR TO THE REMOVAL OF EQUIPMENT FROM THE SITE
12. ALL WORKS SHALL BE AS PER OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS
13. A CONSTRUCTION SURVEY WILL BE REQUIRED AT SITE C BEFORE THE COMMENCEMENT OF WORKS TO ACCURATELY DETERMINE LOCATION OF PROPOSED WORKS. A POST CONSTRUCTION SURVEY MAY BE REQUESTED TO CONFIRM COMPLETED WORKS AS PER DESIGN (VOLUME AND SLOPES)
14. THESE CONSTRUCTION NOTES ARE TO BE READ IN CONJUNCTION WITH SNTG'S DESIGN REPORT
15. ALL CONSTRUCTION ROADS, SITE DISTURBANCE, AND/OR TEMPORARY WORKS TO BE SUITABLY DEACTIVATED AS APPROVED BY THE VILLAGE OF NEW DENVER
16. POR INSPECTIONS, REVIEWS, AND APPROVAL WILL BE REQUIRED AT A MINIMUM DURING THE FOLLOWING CONSTRUCTION STAGES:
1. UPON COMPLETION OF CONSTRUCTION SURVEY AND BEFORE START OF WORKS
 2. UPON COMPLETION OF REWORKED EXISTING ROCK AND PLACEMENT OF GEOTEXTILE
 3. UPON COMPLETION OF RIPRAP LOWER TOE TRENCH/APRON
 4. UPON 50% RIPRAP PLACEMENT COMPLETION
 5. UPON 100% RIPRAP PLACEMENT COMPLETION

ISSUED FOR CONSTRUCTION



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SCALE AS SHOWN		Designed Dwain Boyer, P. Eng. Date Nov. 2, 2022 Checked Pete Wittstock, P. Eng. Date Nov. 2, 2022 Drawn Nicole Harvey Date Nov. 2, 2022		NEW DENVER DFA REPAIRS SITE 'C'	
Rev	Date	DESCRIPTION	Init	DRAWING TITLE: CONSTRUCTION NOTES	
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				DESIGN ENGINEER: DWAIN BOYER, P.ENG.	
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0	27/12/21	ISSUED TO CLIENT FOR DISCUSSIONS PURPOSES ONLY		21.510.15.01	100-08
		REVISIONS			