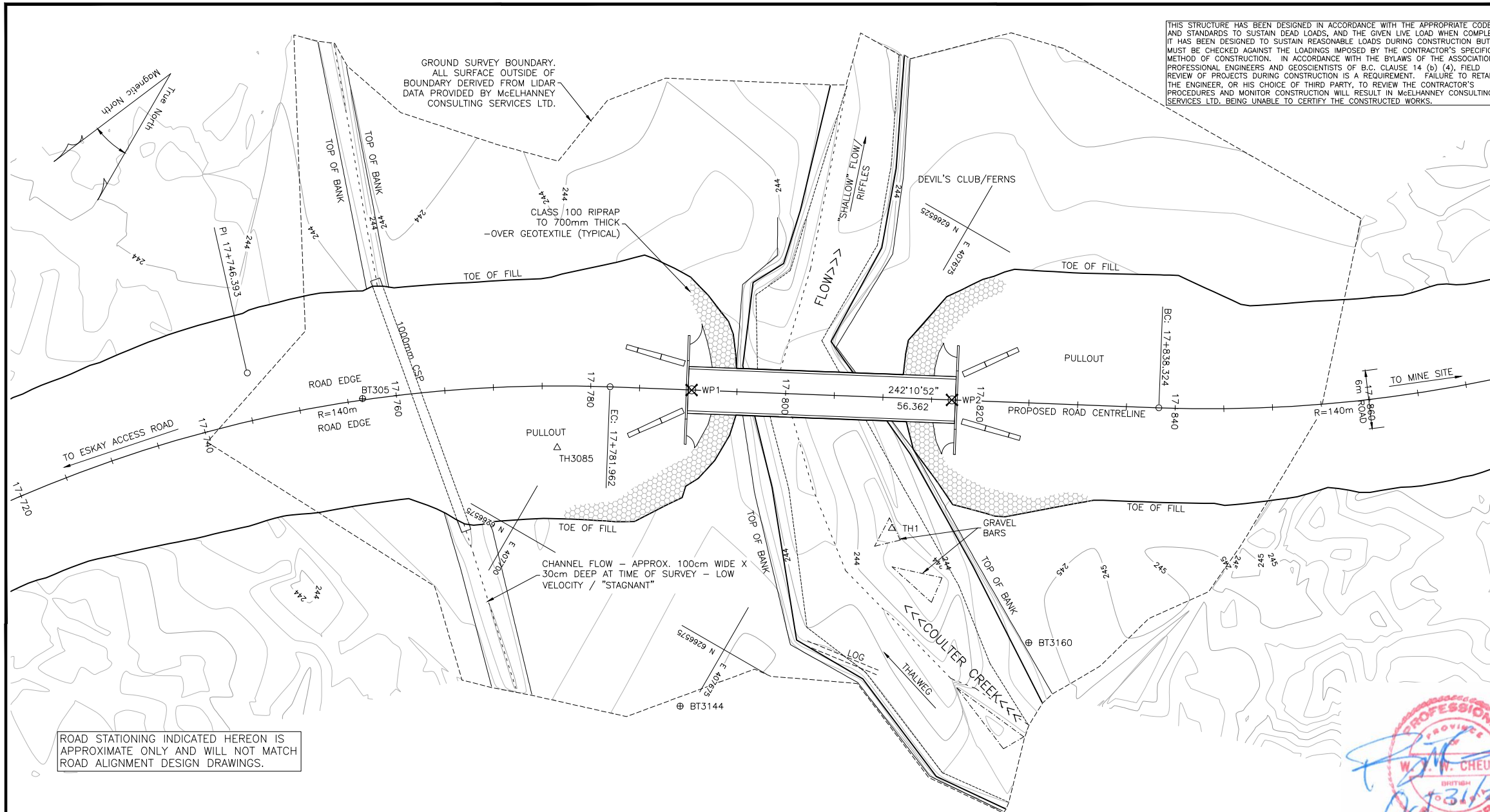


**APPENDIX 4-AH  
GENERAL ARRANGEMENTS –  
ROUTES, BRIDGES, MAJOR CULVERTS**

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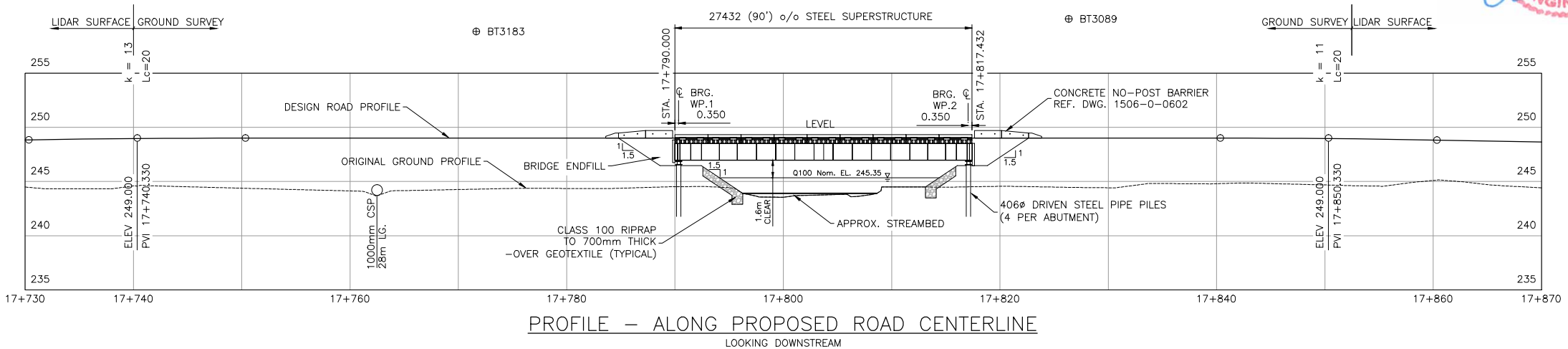
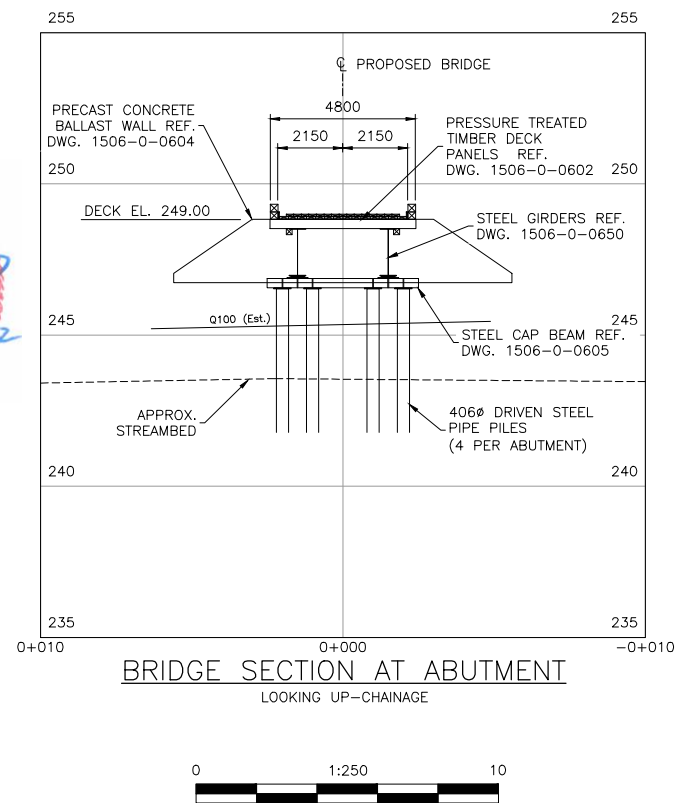
SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
1	6266555.596	407666.306	244.500	---	---
3055 - B.S.	6266571.222	407720.019	246.115	55.940	73-46-44
3085	6266565.600	407700.206	244.353	35.345	73-33-29
3089	6266576.778	407640.104	247.097	33.693	308-57-07
3144	6266582.267	407676.015	247.418	28.383	20-00-08
3160	6266558.737	407648.290	246.867	18.288	279-53-27
3183	6266605.133	407686.896	246.561	53.646	22-34-11
WP1	6266553.576	407691.213	249.000*	24.988	94-38-08
WP2	6266541.101	407667.570	249.000*	14.550	175-00-57

\* WP's LOCATED AT CENTRELINE OF ROADWAY AND CENTRELINE OF BEARING. ELEVATIONS ARE AT FINISHED GRADE.

**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-32-03 LONG. W130-30-05  
N 6266555 E 407662 (UTM NAD83, ZONE 9)
- HYDROLOGY:** (At Proposed Road Centerline)  
- DRAINAGE AREA APPROX. 18.5 sq.km  
- Q100 FLOW ESTIMATED AT 78.1 cu.m/sec  
- BOTTOM CREEK APPROX. EL. 243.55m  
- ESTIMATED MAX. STREAM VELOCITY = 3.5 m/sec  
- ESTIMATED H.W.L. ELEVATION = 245.35m
- STREAM RIPARIAN CLASS S1 (FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-650.**
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.**

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



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Prince George B.C. V2L 2Y8 FAX (250) 563-1941  
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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMH Date: 09-10-09  
0 1:500 25  
(UNLESS NOTED OTHERWISE)

**SEABRIDGE GOLD INC.**  
**PROPOSED MINE ACCESS - COULTER ROUTE**  
**COULTER CREEK (C006) - Km 17.8±**  
**GENERAL ARRANGEMENT**

Client Project No  
Client Drawing No  
MCSL Project No. 2341-01506-0  
Drawing No.  
**01506-206-03**  
Sheet 3 of 3 Revision A  
Destroy all prints bearing previous number

H:\PROJ\2341\1506-1599\1506 Seabridge KSM Project\200.0 Crossings\206.10 Drawings\SITE C006 DESIGN.dwg, 11/19/2012 3:03:18 PM

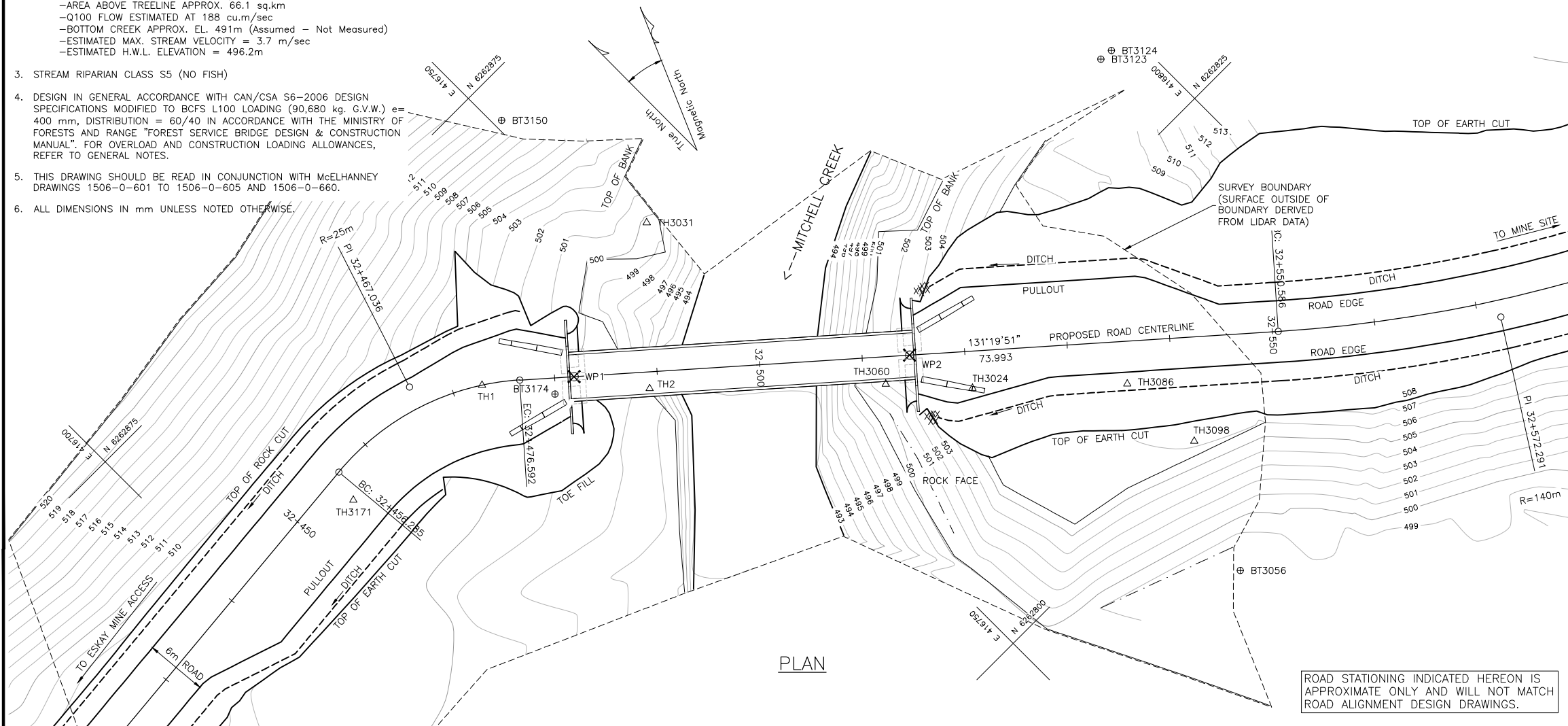
**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-30-10 LONG. W130-21-10  
N 6262857 E 416735
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 80.3 sq.km  
-AREA ABOVE TREELINE APPROX. 66.1 sq.km  
-Q100 FLOW ESTIMATED AT 188 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 491m (Assumed - Not Measured)  
-ESTIMATED MAX. STREAM VELOCITY = 3.7 m/sec  
-ESTIMATED H.W.L. ELEVATION = 496.2m
- STREAM RIPARIAN CLASS S5 (NO FISH)**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.)  $e = 400$  mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-660.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.

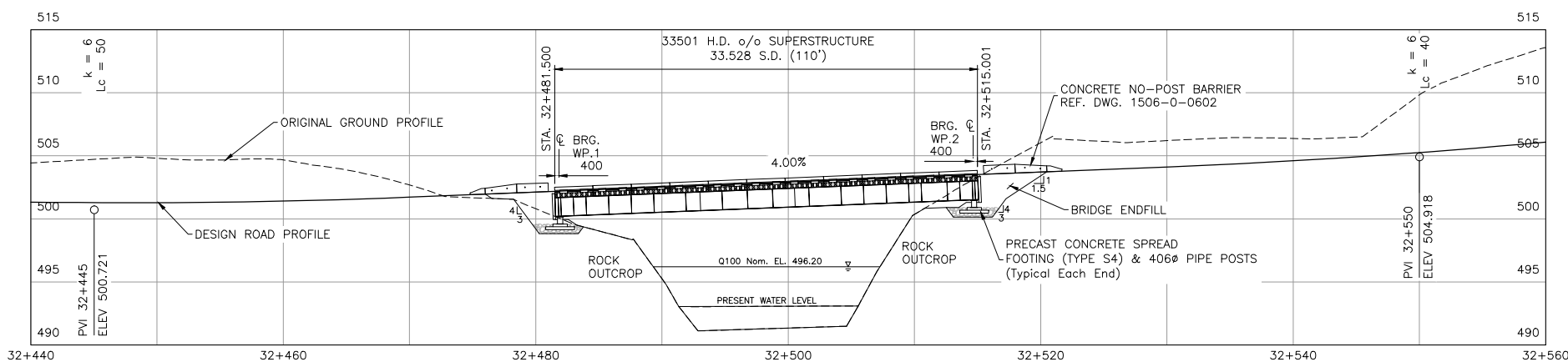
THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE APPROPRIATE CODES AND STANDARDS TO SUSTAIN DEAD LOADS, AND THE GIVEN LIVE LOAD WHEN COMPLETE. IT HAS BEEN DESIGNED TO SUSTAIN REASONABLE LOADS DURING CONSTRUCTION BUT MUST BE CHECKED AGAINST THE LOADINGS IMPOSED BY THE CONTRACTOR'S SPECIFIC METHOD OF CONSTRUCTION. IN ACCORDANCE WITH THE BYLAWS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF B.C. CLAUSE 14 (b) (4), FIELD REVIEW OF PROJECTS DURING CONSTRUCTION IS A REQUIREMENT. FAILURE TO RETAIN THE ENGINEER, OR HIS CHOICE OF THIRD PARTY, TO REVIEW THE CONTRACTOR'S PROCEDURES AND MONITOR CONSTRUCTION WILL RESULT IN McELHANNEY CONSULTING SERVICES LTD. BEING UNABLE TO CERTIFY THE CONSTRUCTED WORKS.

SURVEY CONTROL						
Point	Northing	Easting	Elevation	H.D.	Bearing	
1	6262854.327	416731.208	501.762	22.525	270-23-20	
2	- B.S.	6262842.563	416742.515	497.917	16.145	224-00-46
3024	6262820.363	416764.760	506.777	35.564	161-56-12	
3031	6262854.174	416753.732	499.740	---	---	
3056	6262789.384	416770.658	500.326	66.965	165-21-33	
3060	6262826.600	416759.079	501.893	28.088	169-01-39	
3086	6262809.994	416775.728	506.285	49.353	153-31-58	
3098	6262801.444	416776.389	506.054	57.392	156-44-54	
3122	6262835.009	416693.741	502.083	62.979	252-16-59	
3123	6262834.158	416796.245	508.694	48.240	114-40-49	
3124	6262834.032	416797.566	509.025	46.989	115-12-45	
3150	6262871.202	416750.781	511.720	17.281	350-09-58	
3171	6262855.270	416714.441	502.600	39.306	271-35-53	
3174	6262848.692	416735.623	502.666	18.921	253-09-23	
3187	6262837.980	416700.079	501.889	56.044	253-12-16	
WP1	6262848.575	416738.137	502.196*	16.570	250-15-03	
WP2	6262826.961	416762.712	503.504*	28.656	161-44-15	

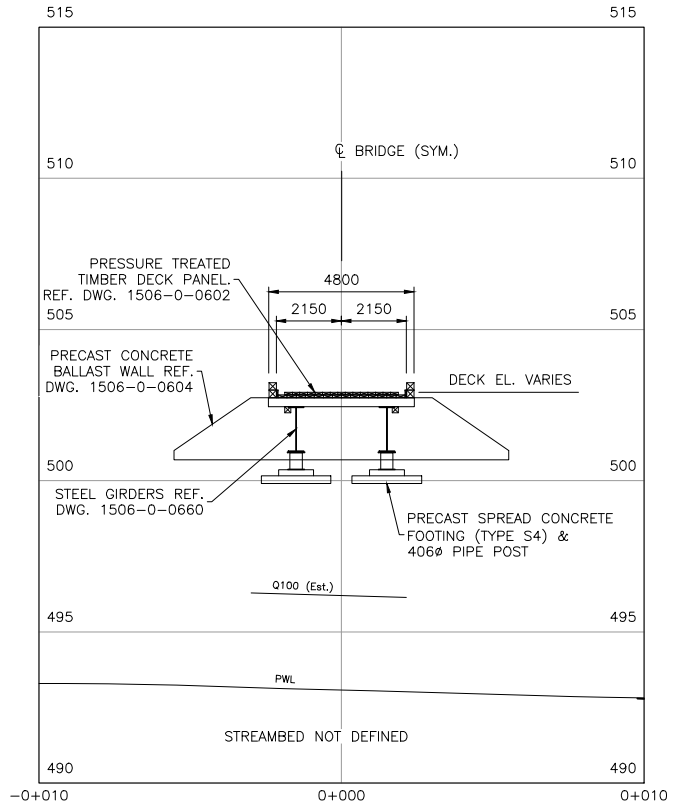
\* WP's LOCATED AT CENTRELINE OF ROADWAY AND CENTRELINE OF BEARING. ELEVATIONS ARE AT FINISHED GRADE.



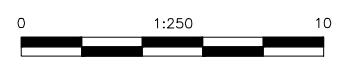
ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



PROFILE - ALONG PROPOSED ROAD CENTERLINE  
LOOKING UPSTREAM



BRIDGE SECTION AT ABUTMENT  
LOOKING UP-CHAINAGE



No.	Date	Revision	Dr.	CK'd
A.	OCT. 2012	ISSUED FOR PERMITTING		

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Prince George B.C. V2L 2Y8 FAX (250) 563-1941  
www.mcelhanney.com Toll Free (866) 451-2229

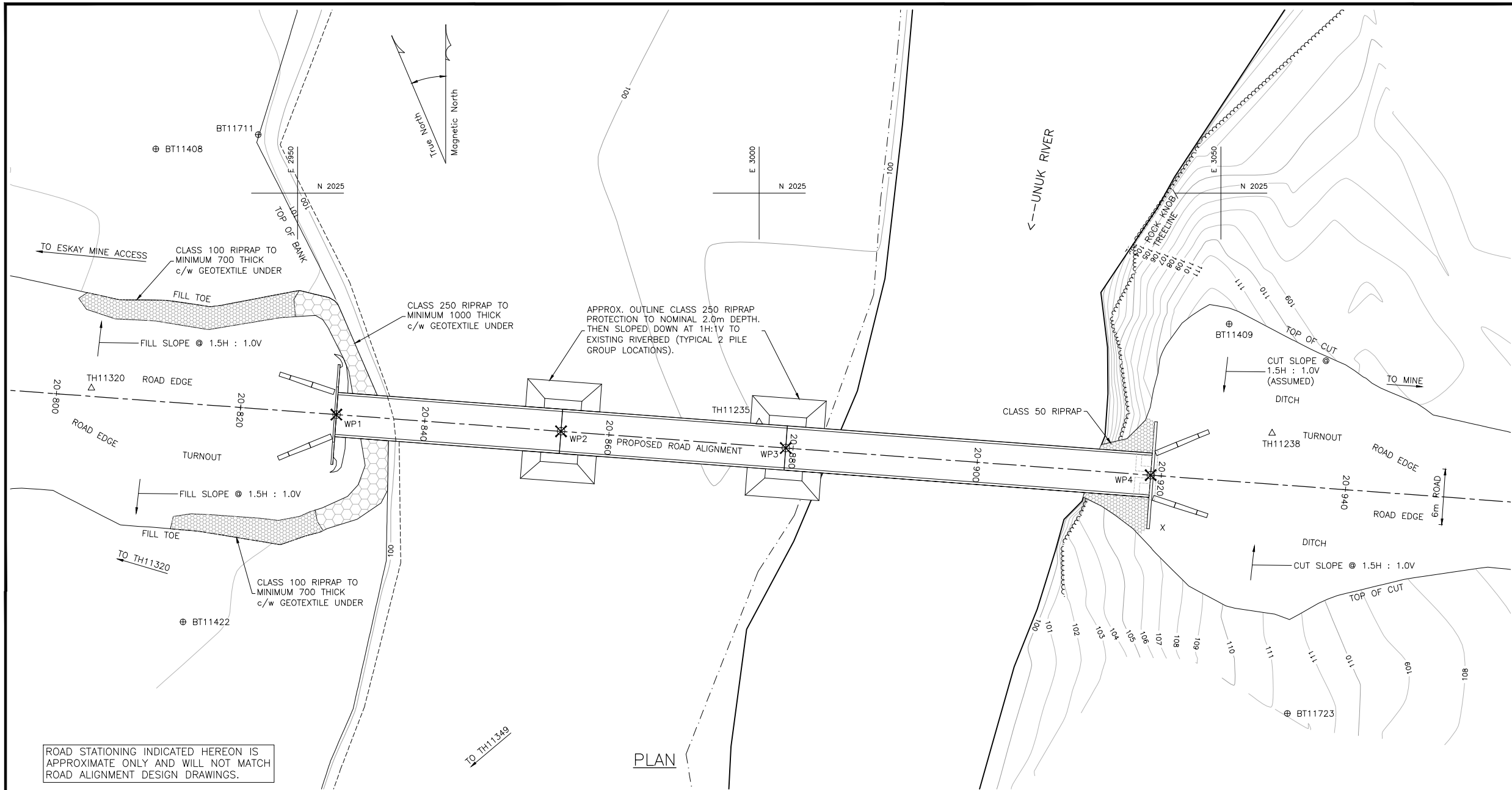
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Drawn: SAB/DMH Date: 09-10-09  
0 1:500 25  
(UNLESS NOTED OTHERWISE)

Approved/Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - COULTER ROUTE  
MITCHELL CREEK (C007) - Km 33.9±  
GENERAL ARRANGEMENT

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	01506-207-03
Sheet	3 of 3
Revision	A

Destroy all prints bearing previous number



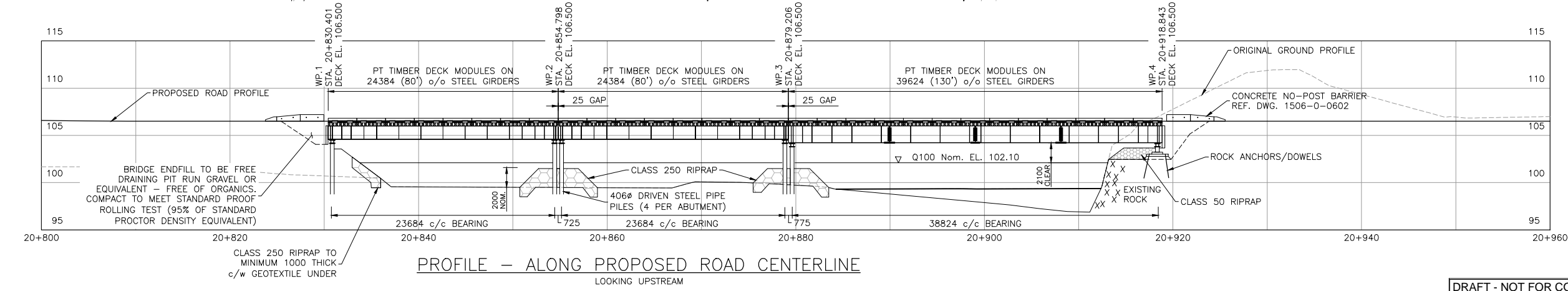
SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
TH11320	2003.890	2927.661	101.532	---	---
BT11422-B.S.	1978.563	2937.587	101.099	27.203	158-35-57
WP1	2001.013	2954.200	106.500*	26.695	96-11-13
WP2	1999.203	2978.529	106.500*	51.084	95-15-50
WP3	1997.393	3002.871	106.500*	75.490	94-56-14
WP4	1994.453	3042.398	106.500*	115.125	94-42-07
TH11235	2000.000	3000.000	100.000	---	---
TH11238	1998.993	3055.546	112.675	---	---
BT11723	1968.653	3057.202	112.470	---	---
BT11409	2010.824	3050.904	113.091	---	---
BT11711	2031.330	2945.735	103.349	---	---
BT11408	2029.776	2934.642	101.489	---	---
BT11349	1932.413	2945.993	102.117	---	---

\* NOMINAL DECK ELEVATION

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE APPROPRIATE CODES AND STANDARDS TO SUSTAIN DEAD LOADS, AND THE GIVEN LIVE LOAD WHEN COMPLETE. IT HAS BEEN DESIGNED TO SUSTAIN REASONABLE E LOADS DURING CONSTRUCTION BUT MUST BE CHECKED AGAINST THE LOADINGS IMPOSED BY THE CONTRACTOR'S SPECIFIC METHOD OF CONSTRUCTION. IN ACCORDANCE WITH THE BYLAWS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF B.C. CLAUSE 14 (b) (4), FIELD REVIEW OF PROJECTS DURING CONSTRUCTION IS A REQUIREMENT. FAILURE TO RETAIN THE ENGINEER, OR HIS CHOICE OF THIRD PARTY, TO REVIEW THE CONTRACTOR'S PROCEDURES AND MONITOR CONSTRUCTION WILL RESULT IN McELHANNEY CONSULTING SERVICES LTD. BEING UNABLE TO CERTIFY THE CONSTRUCTED WORKS.

**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION  
LAT. N56-30-38 LONG. W130-29-25  
N 6263900 E 408286
- HYDROLOGY: (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 615 sq.km  
-AREA ABOVE TREELINE APPROX. 211 sq.km  
-Q100 FLOW ESTIMATED AT 582 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 96.85 m (Est.)  
-ESTIMATED MAX. STREAM VELOCITY = 2.9 m/sec  
-ESTIMATED H.W.L. ELEVATION = 102.10 m
- STREAM RIPARIAN CLASS S1 (FISH) PER RESCAN.
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605, 1506-0-645 AND 1506-0-670.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-210-01.



DRAFT - NOT FOR CONSTRUCTION

No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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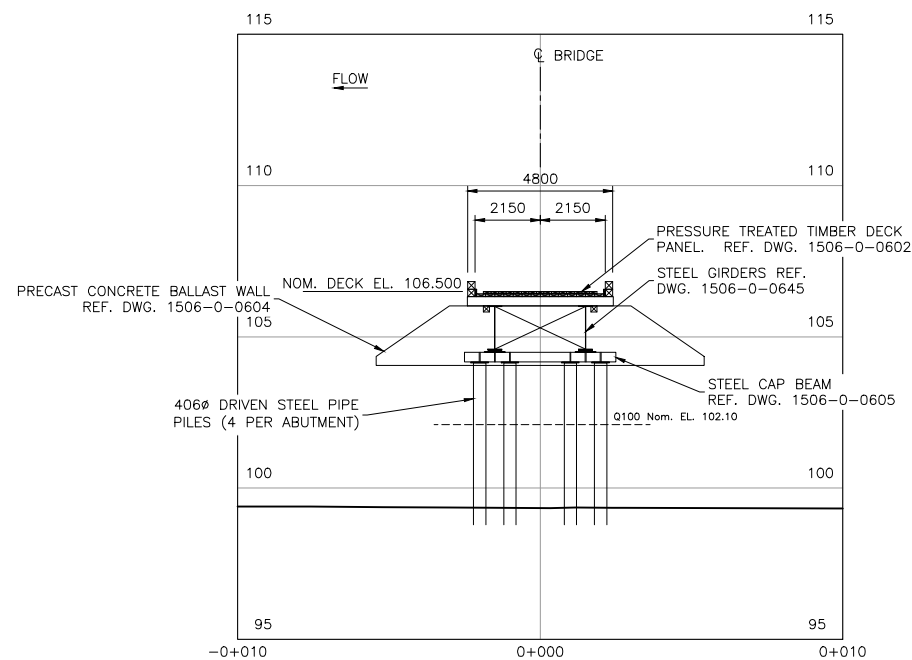
**McElhanney**  
**McElhanney Consulting Services Ltd.**  
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 Prince George B.C. V2L 2Y8 FAX (250) 563-1941  
 www.mcelhanney.com Toll Free (866) 451-2229

Designed: RAO Checked: WWC QC: RWP  
 Drawn: DMW Date: SEPTEMBER 2010  
 0 1:500 25  
 UNLESS OTHERWISE NOTED

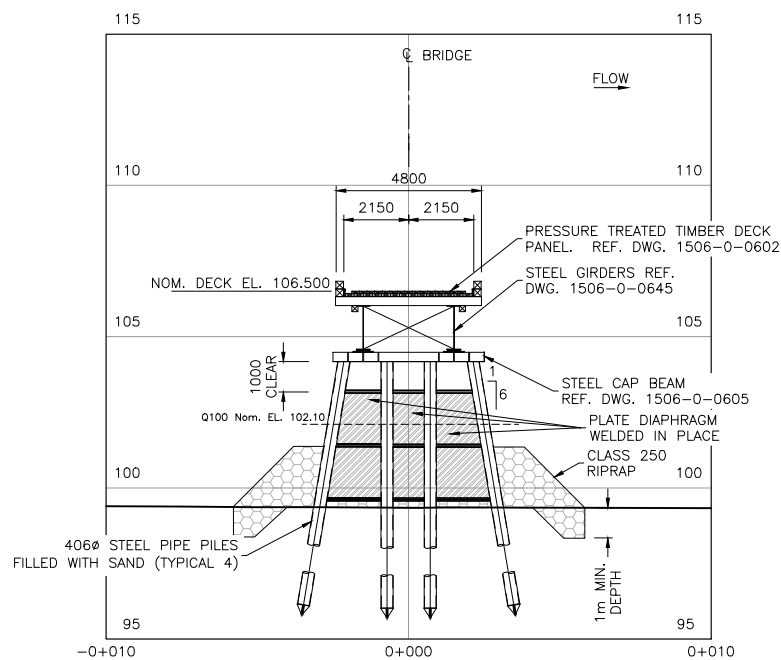
**SEABRIDGE GOLD INC.**  
**PROPOSED MINE ACCESS - COULTER ROUTE**  
**UNUK RIVER (C010)- km 20.9±**  
**GENERAL ARRANGEMENT**

Client Project No  
 Client Drawing No  
 MCSL Project No. 2341-01506-0  
 Drawing No.  
**01506-210-03**  
 Sheet 3 of 0 Revision A  
 Destroy all prints bearing previous number

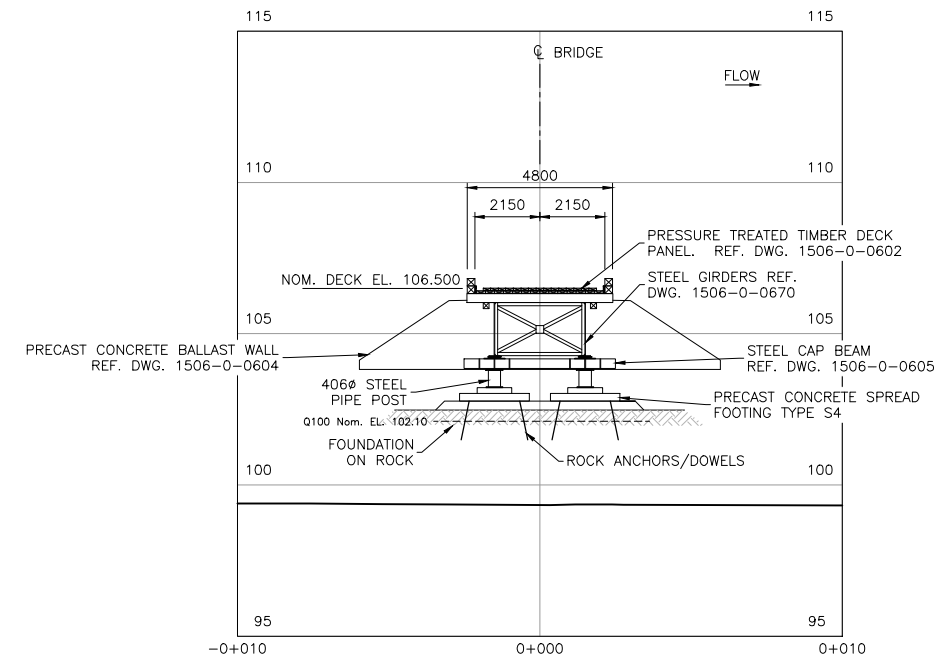
H:\PROJ\2341\1500-159A\1506 Stabridge KSM Project\2010 Drawings\SITE 210 WORKING.dwg, 11/22/2012 1:41:33 PM



ELEVATION – LOW CHAINAGE ABUTMENT  
LOOKING DOWN-CHAINAGE



ELEVATION – MID-CHANNEL PIER (2)  
LOOKING UP-CHAINAGE



ELEVATION – HIGH CHAINAGE ABUTMENT  
LOOKING UP-CHAINAGE



H:\PROJ\2341\1506-159A\1506-Stairbridge\_KSM\_Project\200.0\_Crossings\210.10\_Drawings\210.10\_Drawing\210.10 WORKING.dwg, 11/19/2012 2:23:17 PM

No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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www.mcelhanney.com Toll Free (866) 451-2229

Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: SEPTEMBER 2010

0 1:250 10  
UNLESS OTHERWISE NOTED

Approved/Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - COULTER ROUTE  
UNUK RIVER (C010)- km 20.9±  
GENERAL ARRANGEMENT - DETAILS

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-210-04</b>
Sheet	4 of 0
Revision	A

Destroy all prints bearing previous number ▲

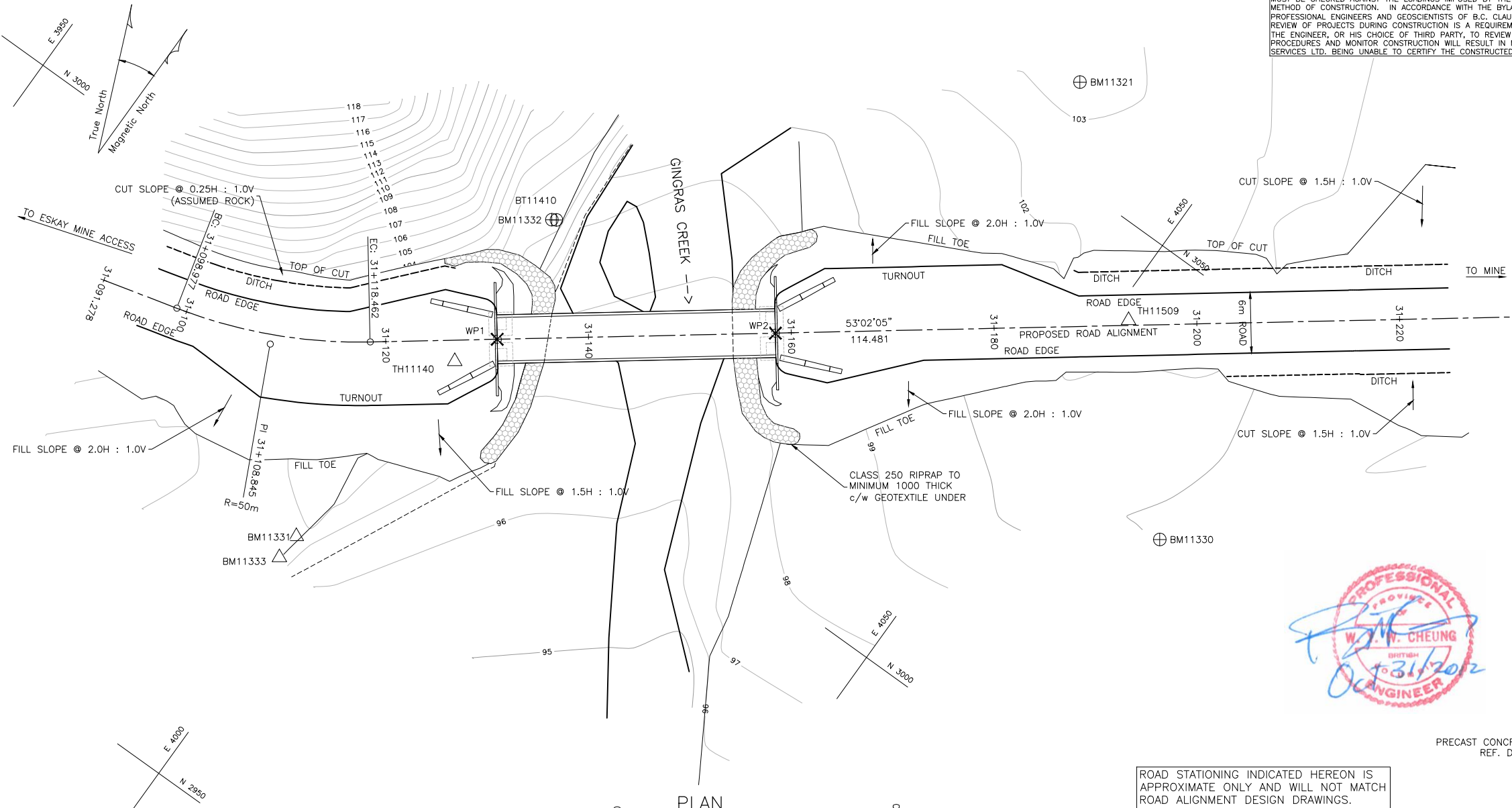
THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE APPROPRIATE CODES AND STANDARDS TO SUSTAIN DEAD LOADS, AND THE GIVEN LIVE LOAD WHEN COMPLETE. IT HAS BEEN DESIGNED TO SUSTAIN REASONABLE LOADS DURING CONSTRUCTION BUT MUST BE CHECKED AGAINST THE LOADINGS IMPOSED BY THE CONTRACTOR'S SPECIFIC METHOD OF CONSTRUCTION. IN ACCORDANCE WITH THE BYLAWS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF B.C. CLAUSE 14 (b) (A), FIELD REVIEW OF PROJECTS DURING CONSTRUCTION IS A REQUIREMENT. FAILURE TO RETAIN THE ENGINEER, OR HIS CHOICE OF THIRD PARTY, TO REVIEW THE CONTRACTOR'S PROCEDURES AND MONITOR CONSTRUCTION WILL RESULT IN McELHANNEY CONSULTING SERVICES LTD. BEING UNABLE TO CERTIFY THE CONSTRUCTED WORKS.

SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
BM11332	3016.9	3999.6	101.155	---	---
BM11321-B.S	3058.3	4034.0	103.501	53.810	39-41-30
WP1	3004.225	4002.133	101.850*	12.949	168-50-53
WP2	3020.720	4024.051	101.850*	24.715	81-10-31
BM11330	3026.3	4066.7	99.820	---	---
BM11331	2976.9	3997.4	98.393	---	---
BM11333	2974.2	3997.2	99.088	---	---
BT11410	3017.163	4000.000	102.715	---	---
TH11140	3000.000	4000.000	100.000	---	---
TH11509	3042.081	4051.597	101.832	---	---

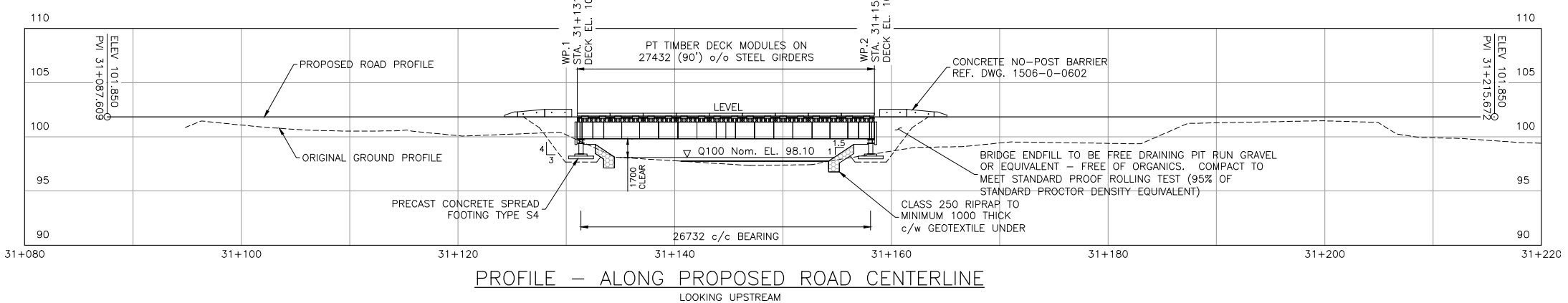
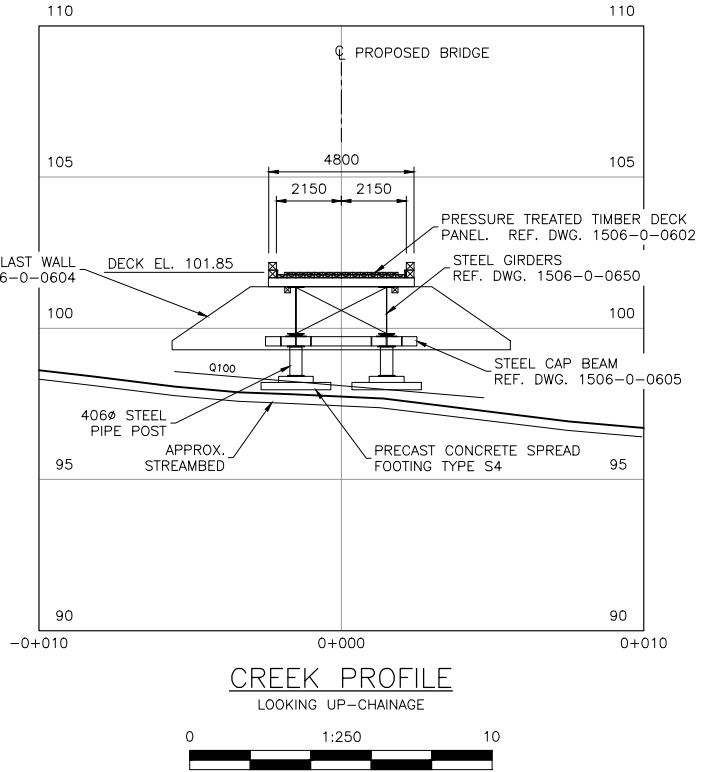
\* NOMINAL DECK ELEVATION

DESIGN NOTES/SPECIFICATIONS

- SITE LOCATION  
LAT. N56-30-08 LONG. W130-21-33  
N 6262790 E 416340
- HYDROLOGY: (At Proposed Road Centerline)  
- DRAINAGE AREA APPROX 10.1 sq.km  
- Q100 FLOW ESTIMATED AT 38.9 cu.m/sec  
- BOTTOM CREEK APPROX. EL. 97.44 m (Est.)  
- ESTIMATED MAX. STREAM VELOCITY = 3.7 m/sec  
- ESTIMATED H.W.L. ELEVATION = 98.1 m
- STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e = 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
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- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-211-01.



ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

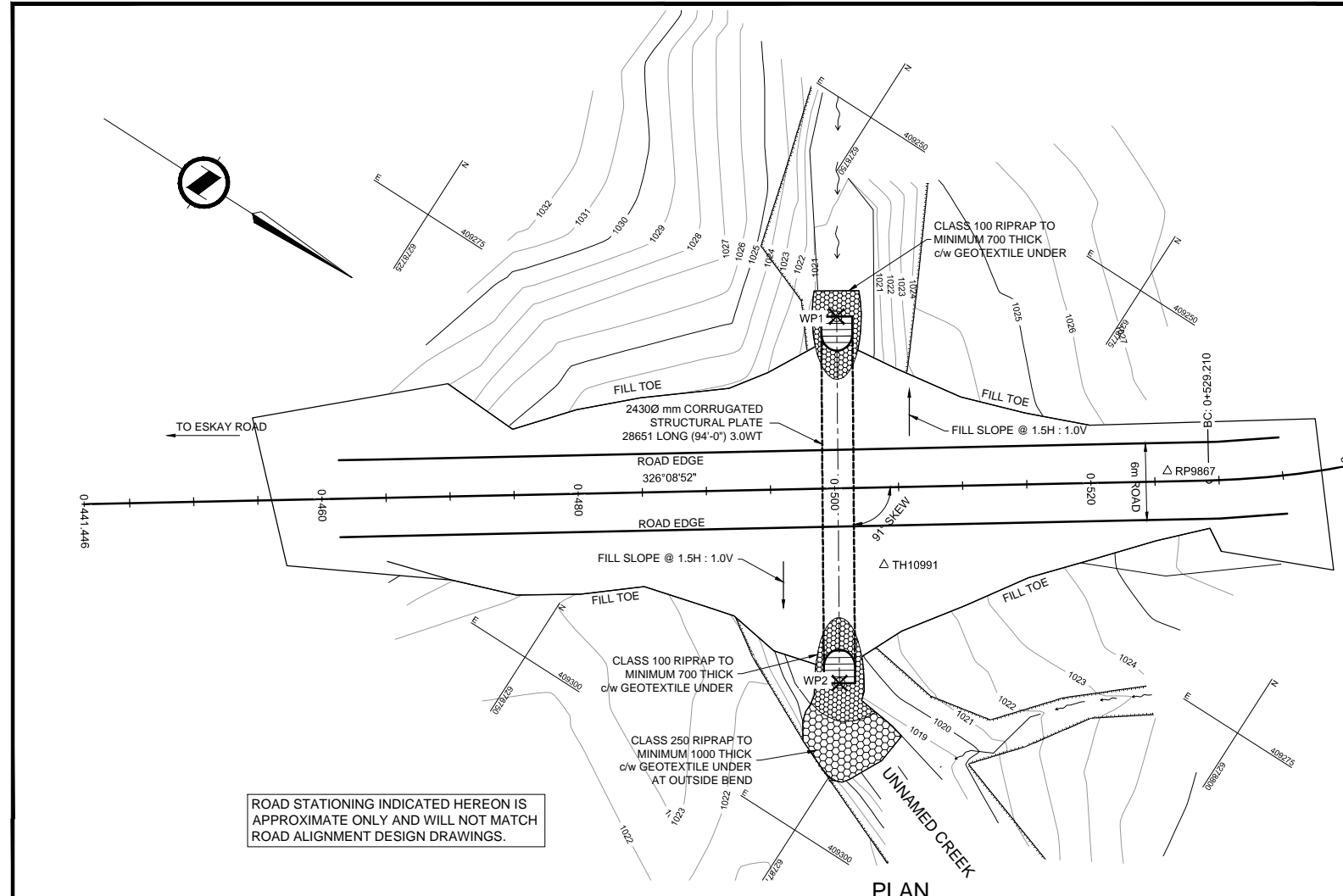
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 www.mcelhanney.com Toll Free (866) 451-2229

Designed: RAO Checked: WWC QC: RWP  
 Drawn: DMW Date: SEPTEMBER 2010  
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 UNLESS OTHERWISE NOTED

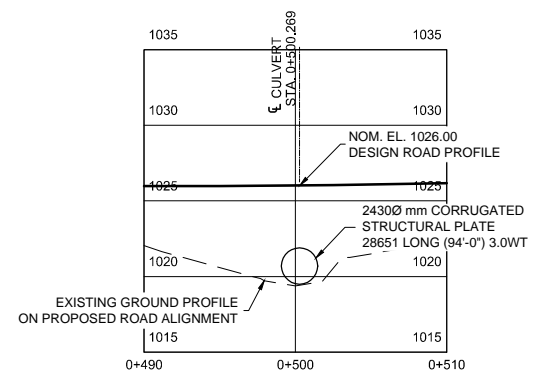
**SEABRIDGE GOLD INC.**  
**PROPOSED MINE ACCESS - COULTER ROUTE**  
**GINGRAS CREEK (C011) - km 33.4±**  
**GENERAL ARRANGEMENT**

Client Project No  
 Client Drawing No  
 MCSL Project No. 2341-01506-0  
 Drawing No.  
**01506-211-03**  
 Sheet 3 of 0 Revision A  
 Destroy all prints bearing previous number

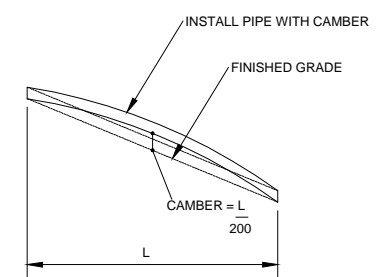


ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.

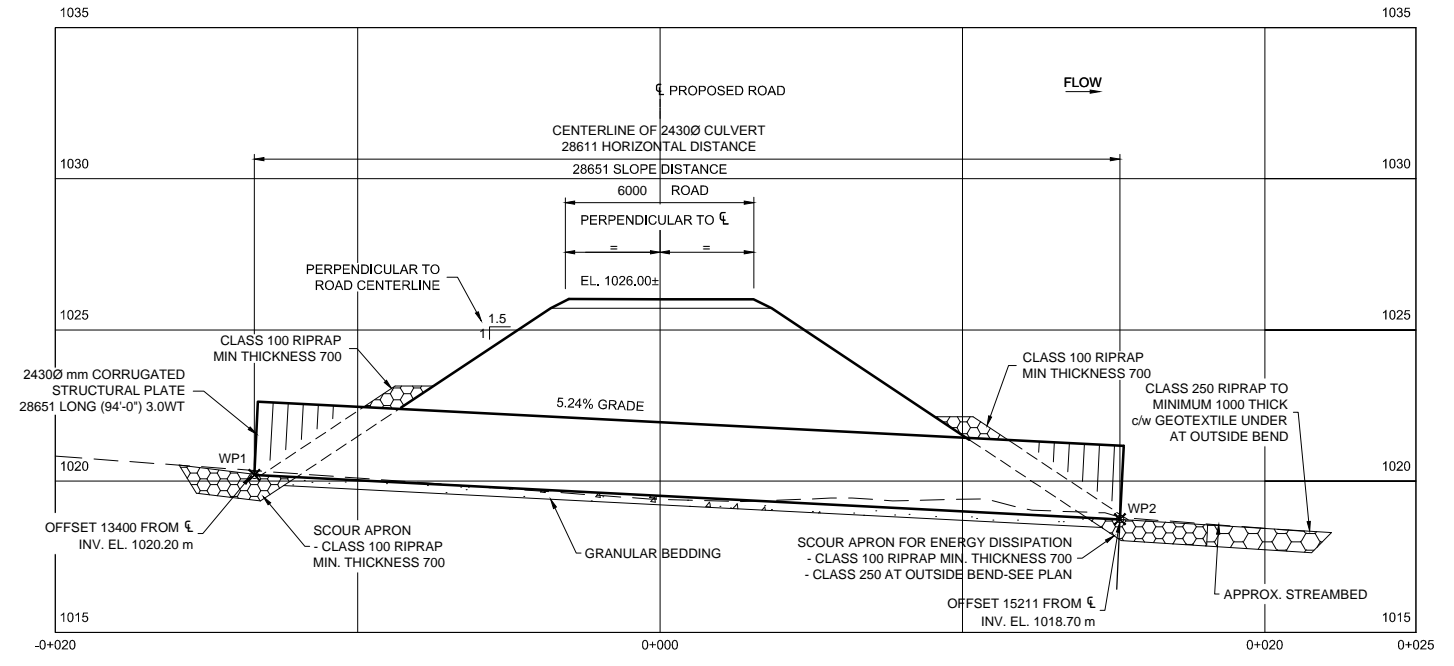
PLAN



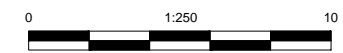
PROFILE - ALONG PROPOSED ROAD CENTERLINE  
LOOKING UPSTREAM



CULVERT CAMBER INSTALLATION  
SCALE N.T.S.



CULVERT PROFILE  
LOOKING UP-CHAINAGE



NOTES

- SITE LOCATION  
LAT. N56-38-40 LONG. W130-28-45  
N 6278760 E 409270
- HYDROLOGY: (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 1.24 sq.km  
-AREA ABOVE TREELINE APPROX. 1.0 sq.km  
-Q100 FLOW ESTIMATED AT 7.5 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 1019.42m  
-ESTIMATED MAX. STREAM VELOCITY = 2.8 m/sec  
-ESTIMATED H.W.L. ELEVATION = 1020.2 m
- STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.
- ALTERNATELY USE 24000mm CSP - 3.5mm WT.
- FOR ADDITIONAL CONSTRUCTION DETAILS SEE DRAWING 1506-0-610 & 611.

SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP9867	6278784.379	409260.737	1026.869	---	---
TH10991 - B.S.	6278769.708	409278.827	1020.989	23.291	129-02-33
WP1	6278756.134	409264.500	1020.200	28.494	172-24-44
WP2	6278771.756	409288.471	1018.700	30.472	114-28-22

\*NOMINAL INVERT ELEVATION

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H:\PROJ\2341\1506-159A\1506-159A\Drawings\Site C012 - Unnamed Creek\212.10 Drawings\Site C012 DESIGN.dwg, 11/19/2012 11:43:05 AM

No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-01-24  
UNLESS OTHERWISE NOTED

Approved Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - COULTER ROUTE  
UNNAMED CREEK (C012) - Km 0.5±  
GENERAL ARRANGEMENT

Client Project No.	
Client Drawing No.	
MCSL Project No.	2341-01506-0
Drawing No.	01506-212-03
Sheet	3 of 3
Revision	A

Destroy all prints bearing previous number

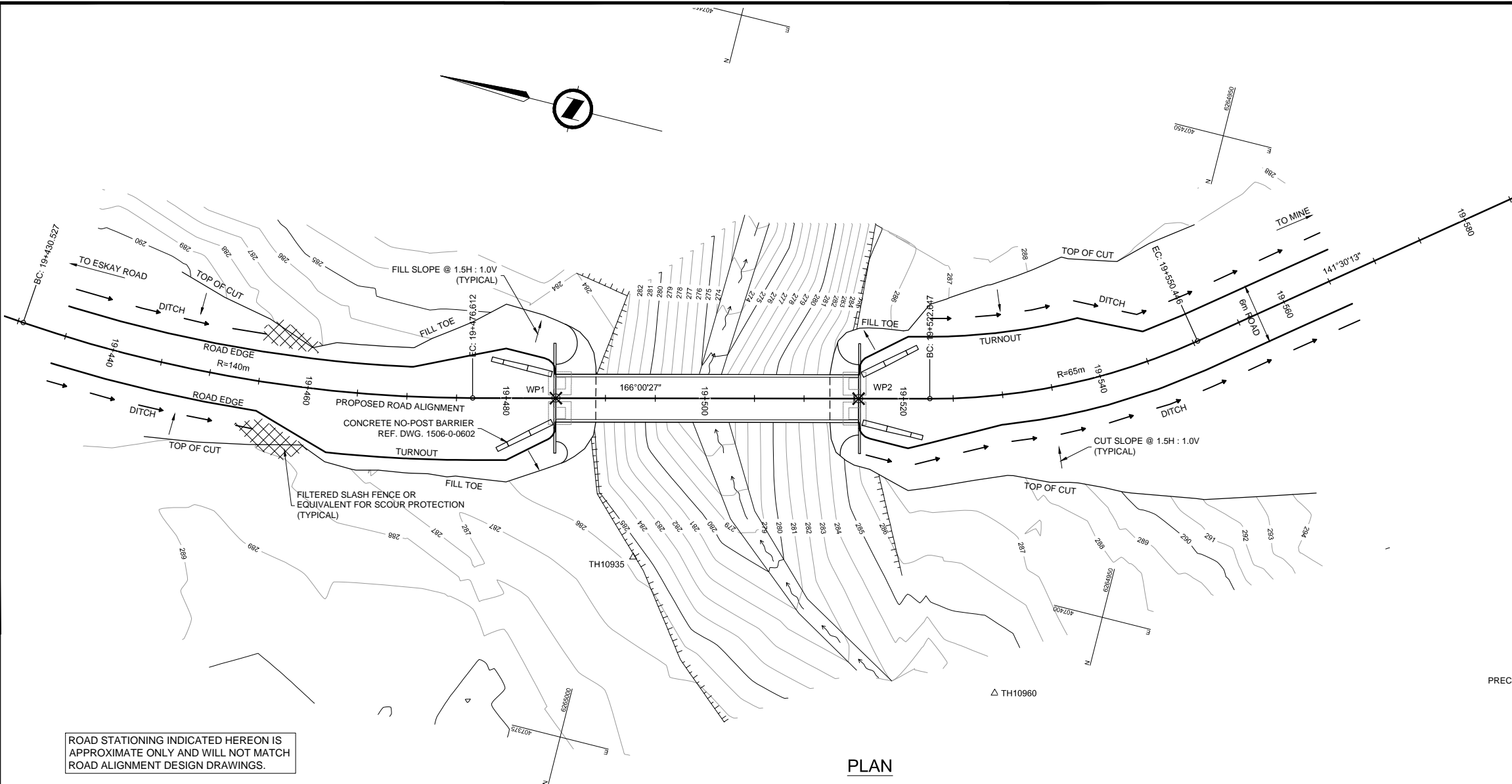
SURVEY CONTROL				
Point	Northing	Easting	Elevation	Bearing
TH10935	6264997.292	407394.385	285.816	---
TH10960 - B.S.	6264958.646	407389.943	286.577	38.900 186-33-25
WP1	6265008.740	407408.012	287.320	17.798 49-58-01
WP2	6264979.165	407415.382	286.711	27.740 130-48-20

\*NOMINAL DECK ELEVATION

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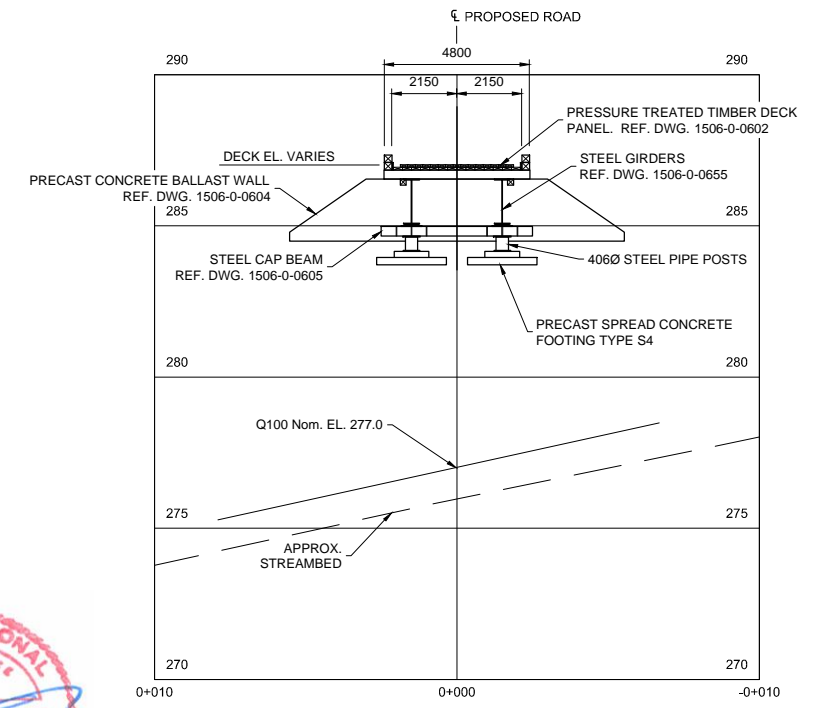
**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-30-57 LONG. W130-30-17  
N 6264990 E 407415
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 0.90 sq.km  
-Q100 FLOW ESTIMATED AT 6.4 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 276.22m  
-ESTIMATED MAX. STREAM VELOCITY = 4.5 m/sec  
-ESTIMATED H.W.L. ELEVATION = 277.0m
- STREAM RIPARIAN CLASS S5 (NO FISH).**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-655.**
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.**
- FOR ADDITIONAL NOTES SEE DRAWING 1506-0-221-01.**

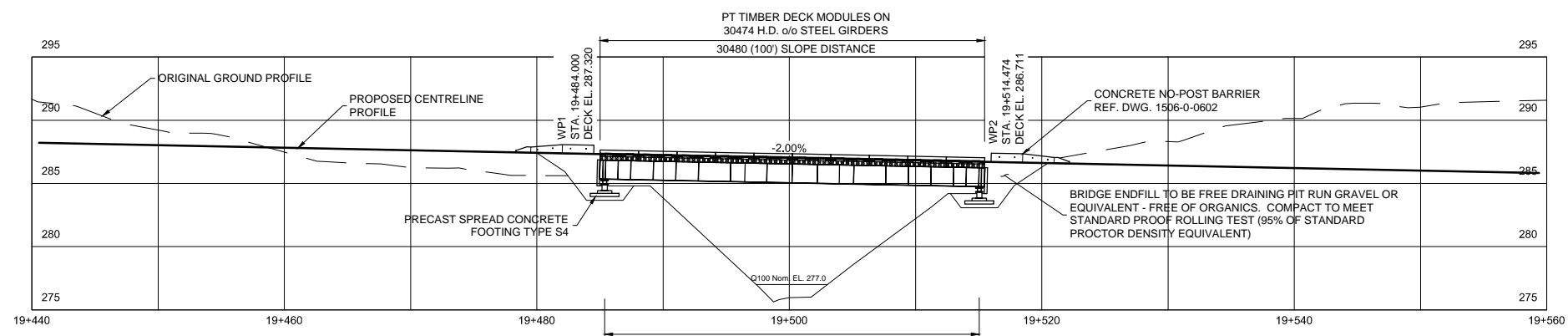
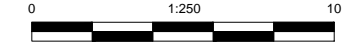


ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.

**PLAN**



**CREEK PROFILE**  
LOOKING UP-CHAINAGE



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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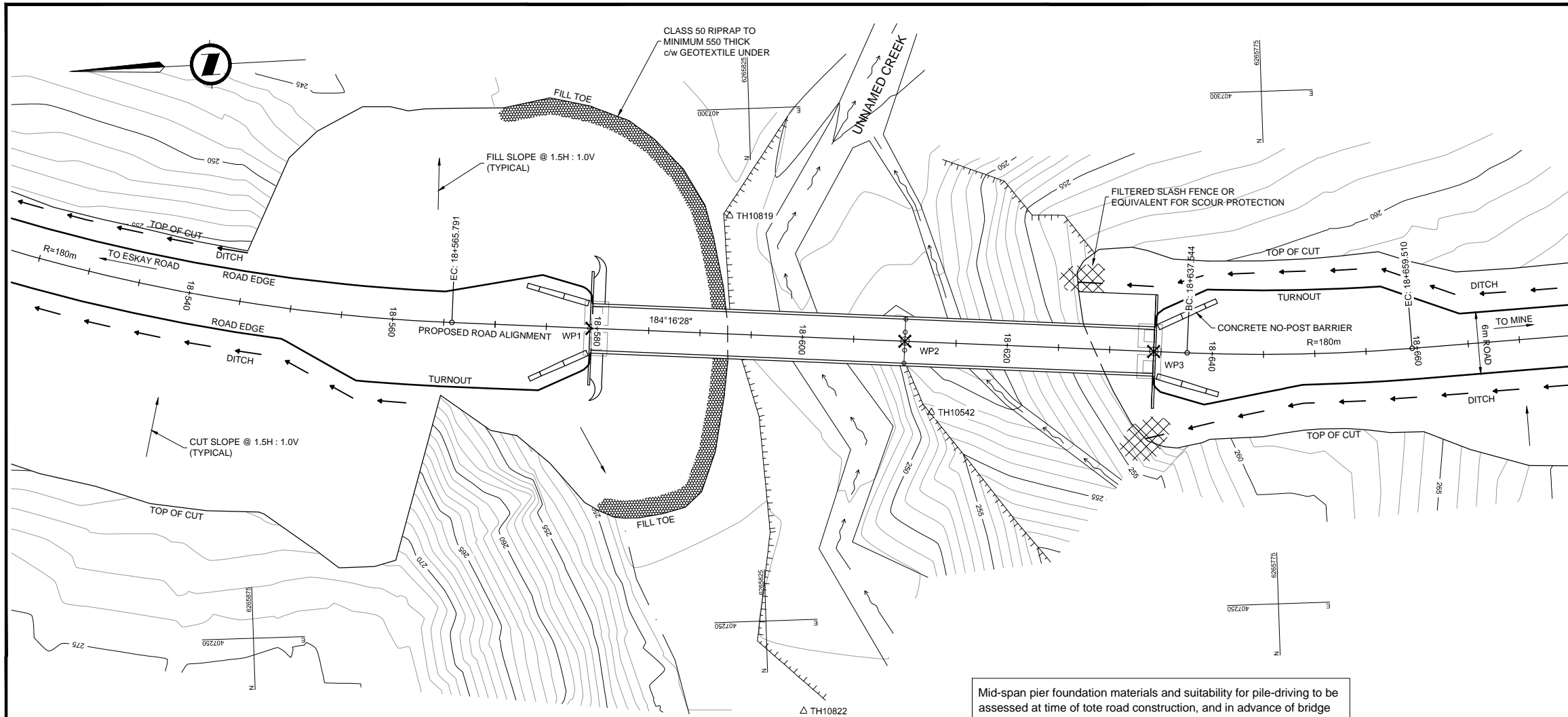
Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-01-25  
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UNLESS OTHERWISE NOTED

Approved Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - COULTER ROUTE  
UNNAMED CREEK (C021) - Km 19.5±  
GENERAL CONDITIONS

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-221-03</b>
Sheet	3 of 3
Revision	A





PLAN

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.

Mid-span pier foundation materials and suitability for pile-driving to be assessed at time of tote road construction, and in advance of bridge construction. If rock is encountered at shallow depths, or other conditions preclude pile-driving, the bridge engineer shall be notified and alternate foundation design details will be provided.

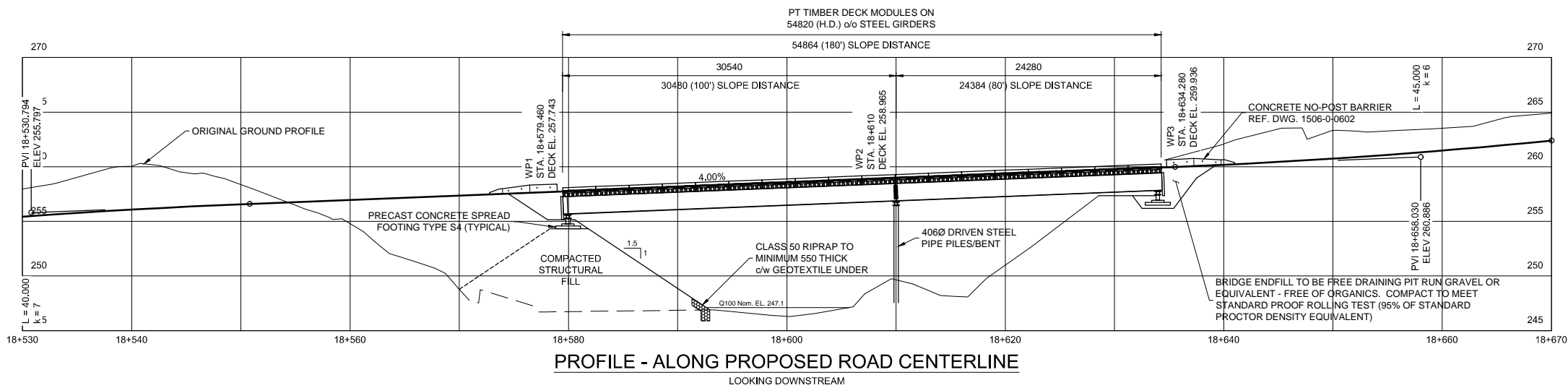
SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
TH10822	6265821.612	407241.102	249.017	---	---
TH10542 - B.S.	6265808.200	407269.795	252.478	31.673	115-03-14
TH10819	6265827.198	407289.603	246.568	48.821	83-25-50
WP1	6265841.002	407279.089	257.743	42.649	62-57-30
WP2	6265810.547	407276.812	258.965	37.385	107-12-59
WP3	6265786.335	407275.003	259.936	48.926	136-08-26

\*NOMINAL DECK ELEVATION

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DESIGN NOTES/SPECIFICATIONS

- SITE LOCATION  
LAT. N56-31-39 LONG. W130-30-27  
N 6265800 E 407270
- HYDROLOGY: (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 4.28 sq.km  
-AREA ABOVE TREELINE APPROX. 14.6 sq.km  
-Q100 FLOW ESTIMATED AT 13.1 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 246.27m  
-ESTIMATED MAX. STREAM VELOCITY = 3.0 m/sec  
-ESTIMATED H.W.L. ELEVATION = 247.1 m
- STREAM RIPARIAN CLASS S5/S6 (NO FISH).
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) @ 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-224-04.



PROFILE - ALONG PROPOSED ROAD CENTERLINE

LOOKING DOWNSTREAM



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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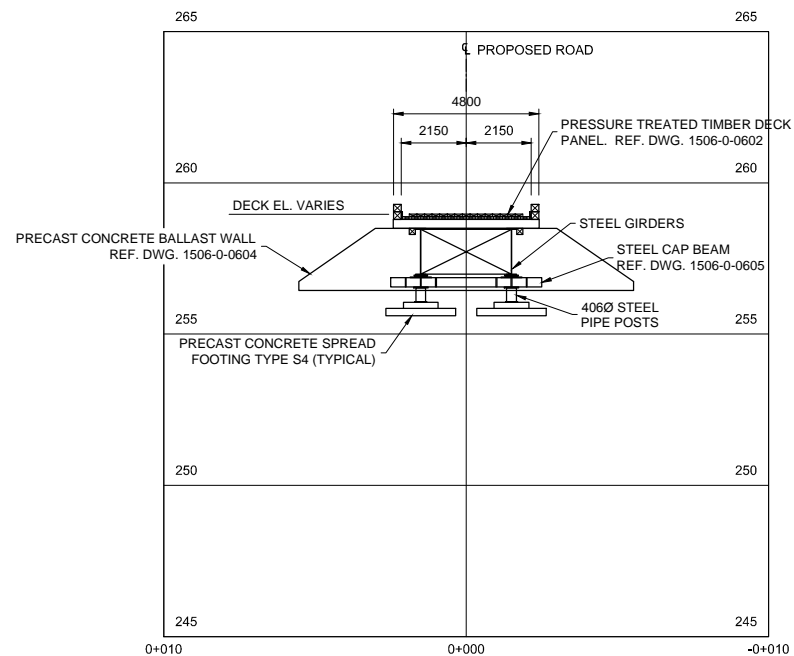
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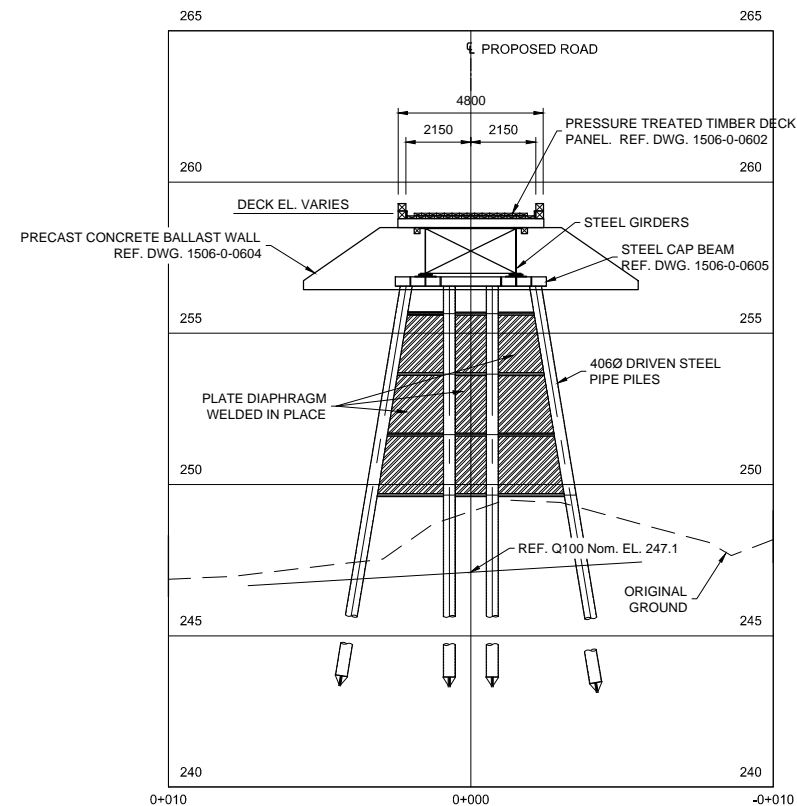
Approved Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - COULTER ROUTE  
UNNAMED CREEK (C024) - Km 18.6±  
GENERAL ARRANGEMENT

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	01506-224-03
Sheet	3 of 4
Revision	A



**CREEK PROFILE**  
LOW AND HIGH CHAINAGE SIMILAR



**CREEK PROFILE**  
LOOKING UP-CHAINAGE  
STA. 18-610

Mid-span pier foundation materials and suitability for pile-driving to be assessed at time of tote road construction, and in advance of bridge construction. If rock is encountered at shallow depths, or other conditions preclude pile-driving, the bridge engineer shall be notified and alternate foundation design details will be provided.

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

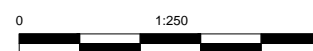
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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-02-20



Approved Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - COULTER ROUTE  
UNNAMED CREEK (C024) - Km 18.6±  
GENERAL ARRANGEMENT - DETAILS

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-224-04</b>
Sheet	4 of 4
Revision	A

Destroy all prints bearing previous number

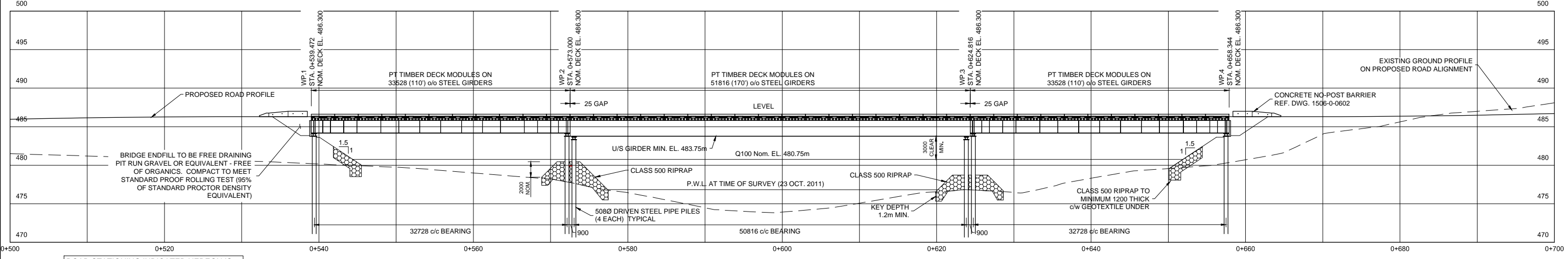
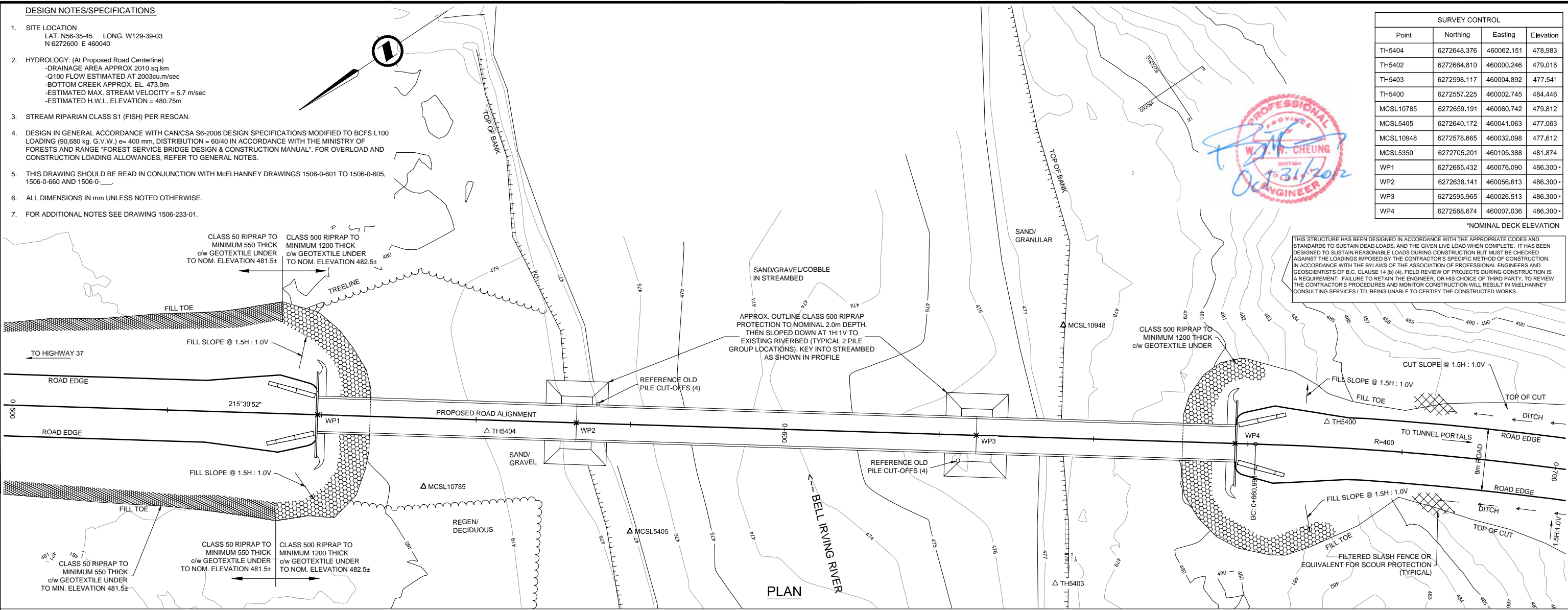
**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-35-45 LONG. W129-39-03  
N 6272600 E 460040
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX. 2010 sq.km  
-Q100 FLOW ESTIMATED AT 2003cu.m/sec  
-BOTTOM CREEK APPROX. EL. 473.9m  
-ESTIMATED MAX. STREAM VELOCITY = 5.7 m/sec  
-ESTIMATED H.W.L. ELEVATION = 480.75m
- STREAM RIPARIAN CLASS S1 (FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,690 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**
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- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.**
- FOR ADDITIONAL NOTES SEE DRAWING 1506-233-01.**

SURVEY CONTROL			
Point	Northing	Easting	Elevation
TH5404	6272648.376	460062.151	478.983
TH5402	6272664.810	460000.246	479.018
TH5403	6272598.117	460004.892	477.541
TH5400	6272557.225	460002.745	484.446
MCSL10785	6272659.191	460060.742	479.812
MCSL5405	6272640.172	460041.063	477.063
MCSL10948	6272578.665	460032.098	477.612
MCSL5350	6272705.201	460105.388	481.874
WP1	6272665.432	460076.090	486.300
WP2	6272638.141	460056.613	486.300
WP3	6272595.965	460026.513	486.300
WP4	6272568.674	460007.036	486.300



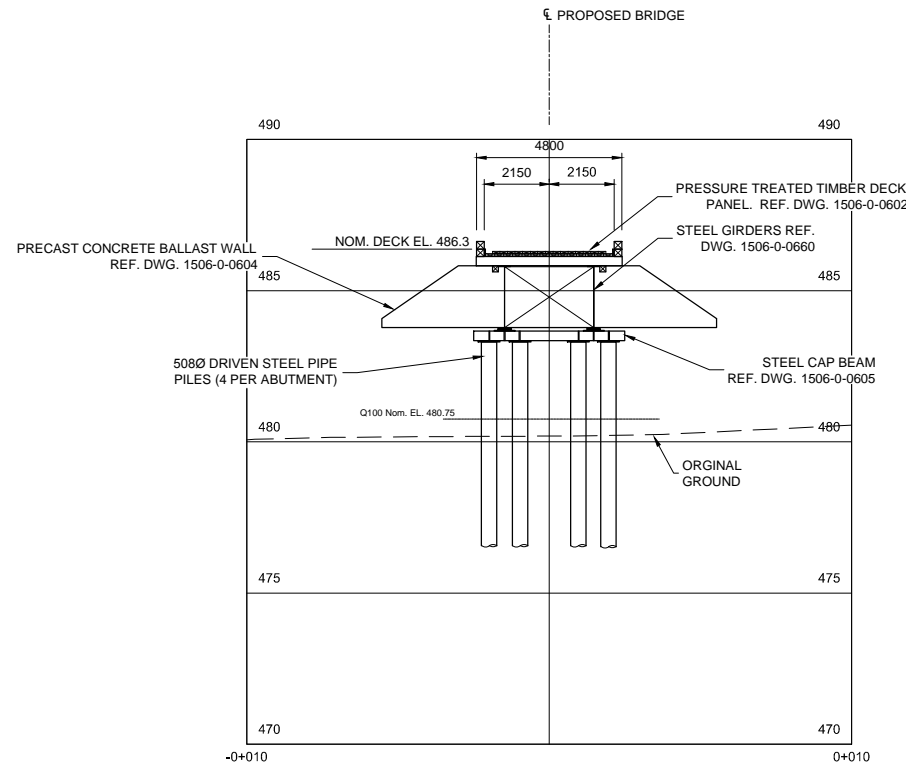
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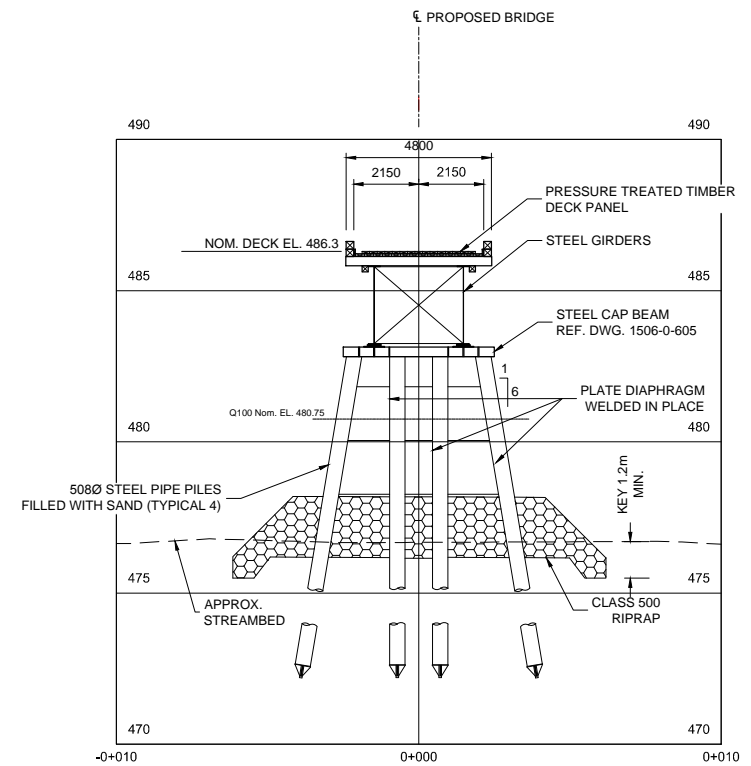
**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM

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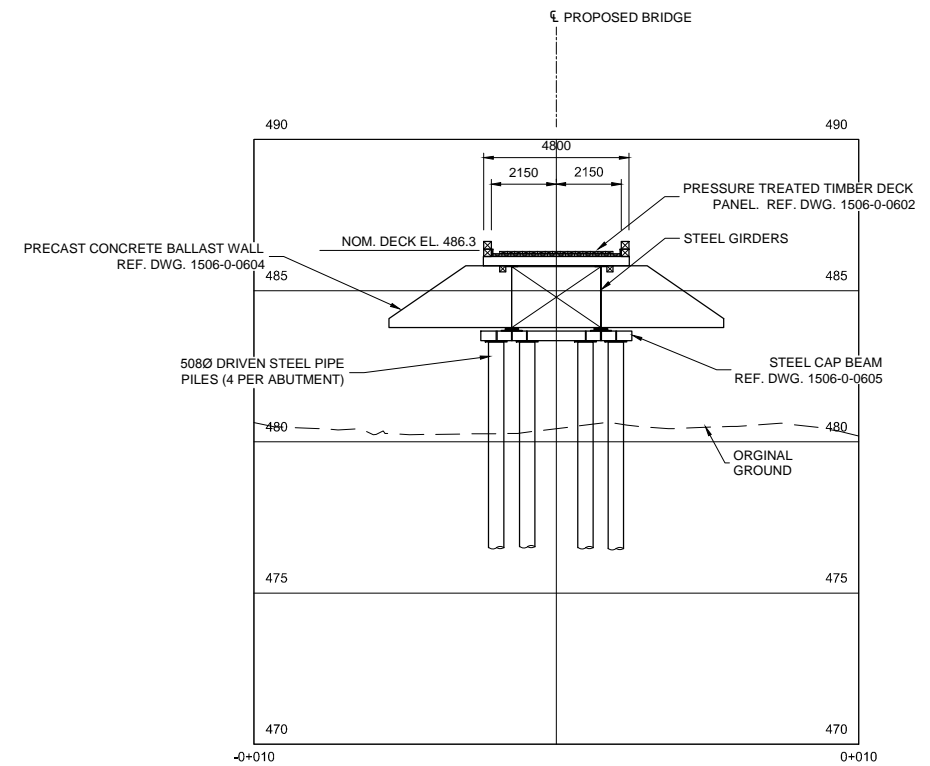
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**ELEVATION - LOW CHAINAGE ABUTMENT**  
LOOKING DOWN-CHAINAGE



**ELEVATION - MID-CHANNEL PIERS (2)**  
LOOKING UP-CHAINAGE



**ELEVATION - HIGH CHAINAGE ABUTMENT**  
LOOKING UP-CHAINAGE



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A	OCT. 2012	ISSUED FOR PERMITTING		

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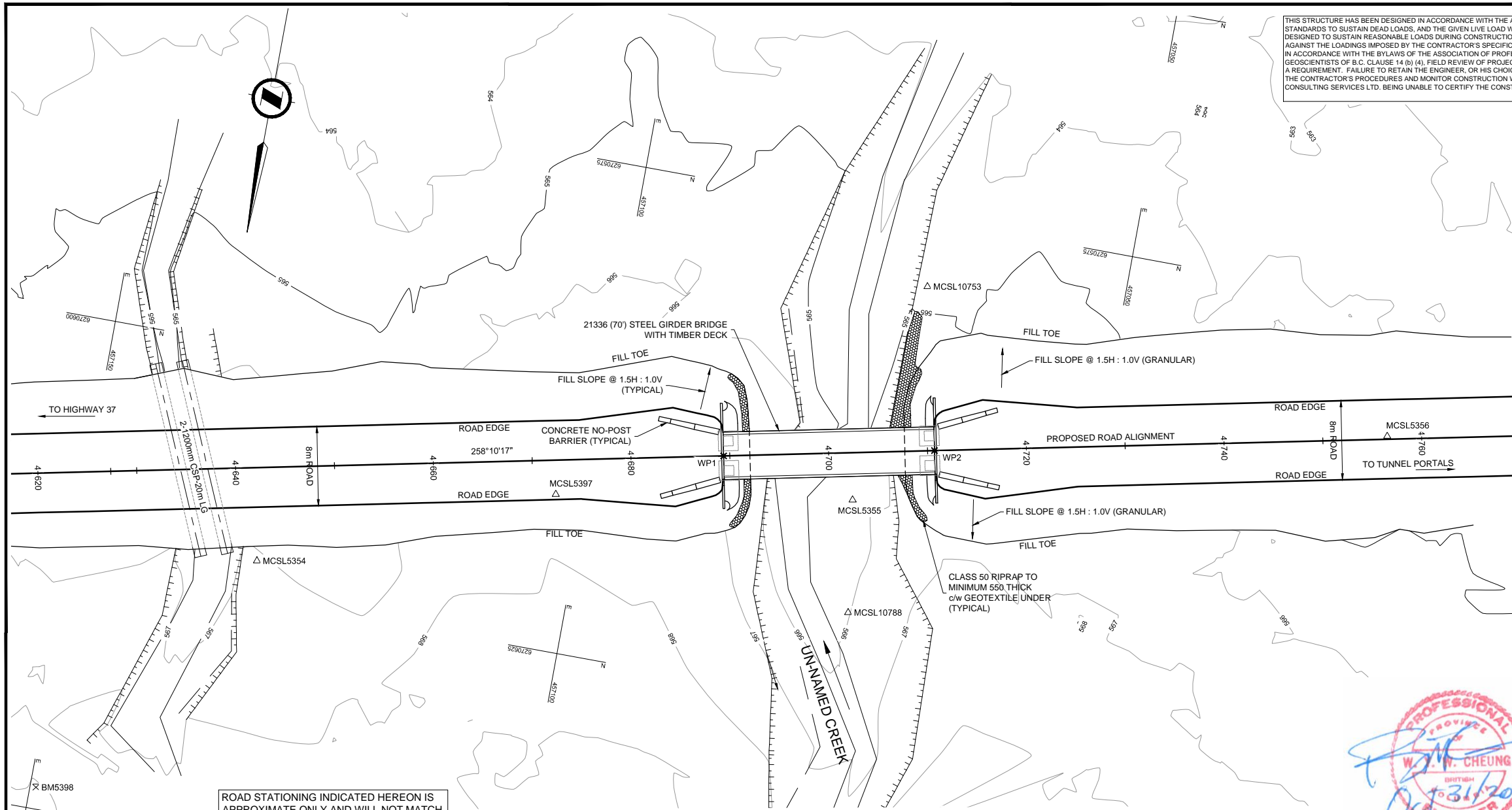
Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-01-12

Approved Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
BELL-IRVING RIVER (R033) - Km 0.6±  
GENERAL ARRANGEMENT - DETAILS

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-233-04</b>
Sheet	4 of 4
Revision	A

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SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
MCSL5355	6270604.311	457073.393	565.463	---	---
MCSL10753 - B.S.	6270581.721	457069.841	564.948	22.868	188-56-07
MCSL5356	6270588.223	457021.368	564.370	54.455	252-48-56
MCSL10788	6270615.601	457071.784	565.941	11.404	351-53-28
MCSL5397	6270609.170	457103.023	566.997	30.026	80-41-17
MCSL5354	6270621.239	457131.549	567.045	60.569	73-46-17
BM5398	6270647.810	457149.390	570.760	87.566	60-12-52
WP1	6270602.281	457087.031	569.550	13.789	98-28-01
WP2	6270597.908	457066.148	569.550	9.669	228-31-29

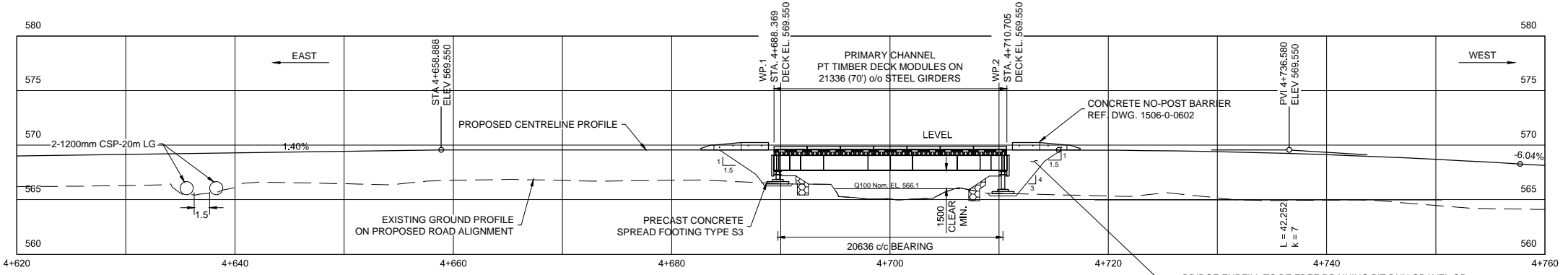
\*NOMINAL DECK ELEVATION

**DESIGN NOTES/SPECIFICATIONS**

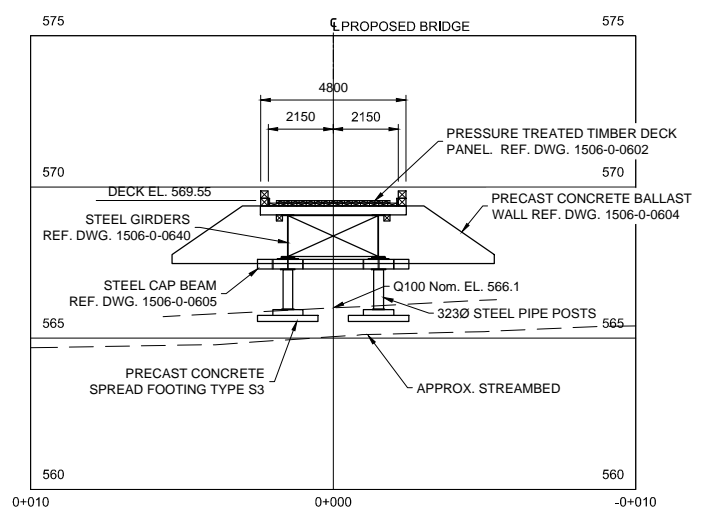
- SITE LOCATION**  
LAT. N56-34-40 LONG. W129-41-54  
N 6270600 E 457105
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 11.8 sq.km  
-AREA ABOVE TREELINE APPROX. 7.2 sq.km  
-Q100 FLOW ESTIMATED AT 37 cu.m/sec
- PRIMARY CHANNEL:**  
-ESTIMATED MAX. STREAM VELOCITY = 4.1 m/sec  
-ESTIMATED H.W.L. ELEVATION = 566.1m  
-BOTTOM CREEK APPROX. - 564.97m
- STREAM RIPARIAN CLASS S1 - PRIMARY CHANNEL (FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605, AND 1506-0-640.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-0-234-01.

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.

**PLAN**

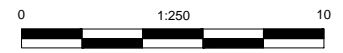


**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM



**CREEK PROFILE**

LOOKING UP-CHAINAGE



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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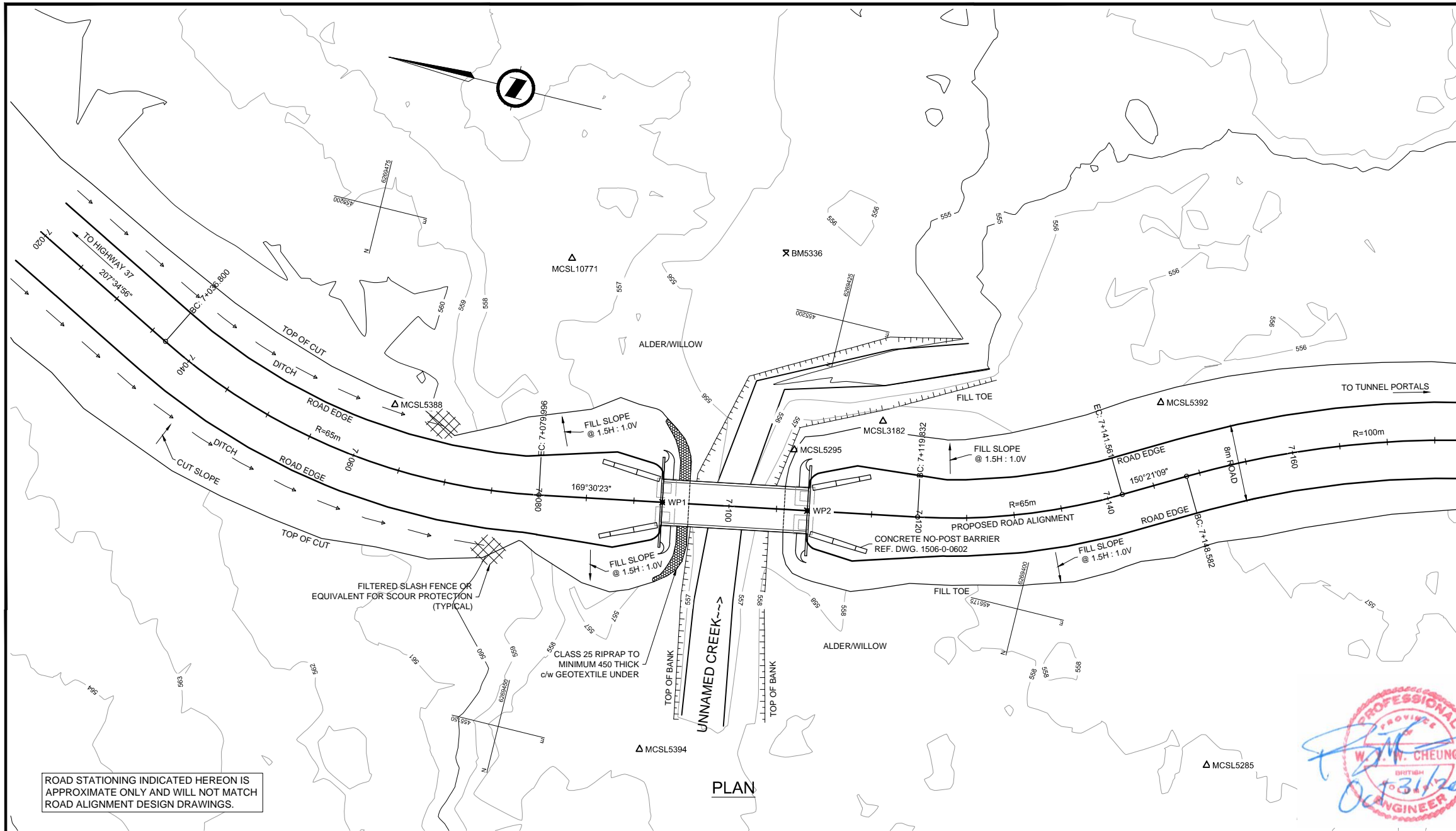
Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW/BRB Date: 12-01-10  
UNLESS OTHERWISE NOTED

Approved Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R034) - Km 4.7±  
PLAN - GENERAL ARRANGEMENT

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-234-03</b>
Sheet	3 of 3
Revision	A

H:\PROJ\2341\1506-159A\1506 Seabridge KSM Project\200.0 Crossings\234.10 Drawings\R034 - Two Unnamed Creeks\234.10 Drawings\201.20808.dwg, 11/22/2012 1:01:04 PM



SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
MCSL5295	6269426.715	455185.620	557.659	---	---
MCSL10771- B.S.	6269454.196	455199.572	557.455	30.820	26-54-58
MCSL5388	6269468.561	455180.219	560.228	42.193	352-38-40
MCSL5394	6269435.001	455151.209	557.752	35.395	283-32-20
BM5336	6269432.470	455205.460	557.600	20.657	73-49-23
MCSL3182	6269418.398	455190.760	557.408	9.777	148-17-17
MCSL5392	6269390.530	455199.624	556.027	38.800	158-50-37
MCSL5285	6269376.773	455163.796	558.122	54.502	203-36-18
WP1	6269438.861	455176.968	560.050	14.913	324-32-13
WP2	6269423.876	455179.744	560.050	6.526	244-13-10

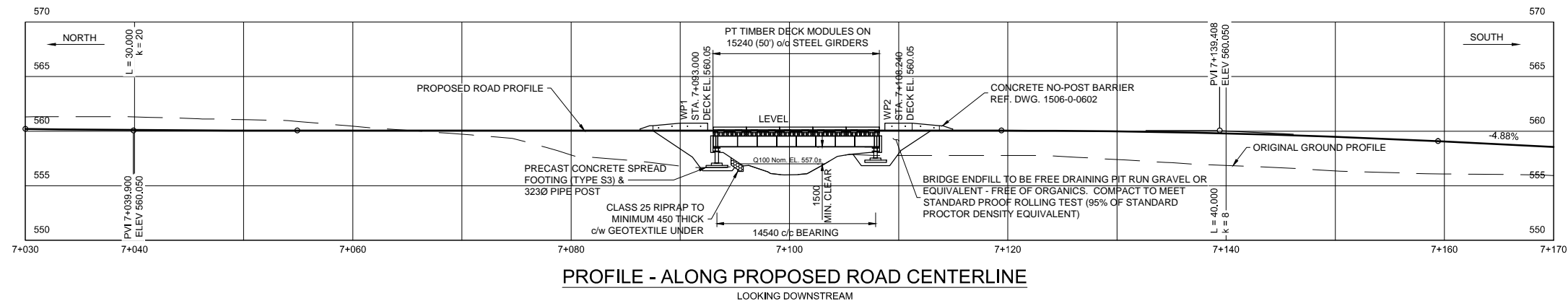
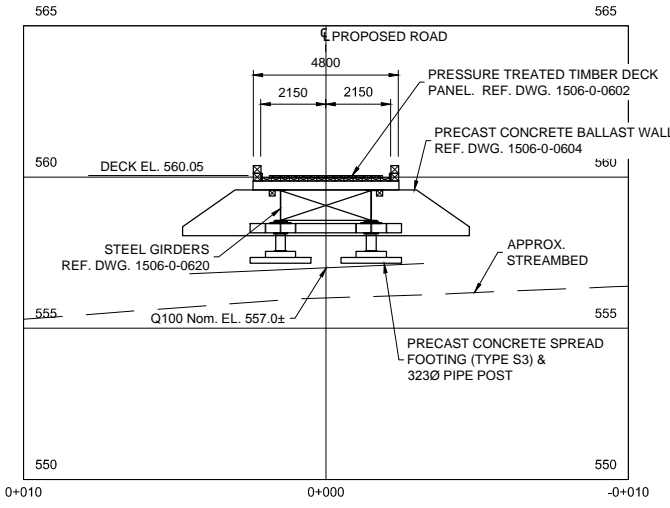
\*NOMINAL DECK ELEVATION

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE APPROPRIATE CODES AND STANDARDS TO SUSTAIN DEAD LOADS, AND THE GIVEN LIVE LOAD WHEN COMPLETE. IT HAS BEEN DESIGNED TO SUSTAIN REASONABLE LOADS DURING CONSTRUCTION BUT MUST BE CHECKED AGAINST THE LOADINGS IMPOSED BY THE CONTRACTOR'S SPECIFIC METHOD OF CONSTRUCTION. IN ACCORDANCE WITH THE BYLAWS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF B.C. CLAUSE 14 (b) (4), FIELD REVIEW OF PROJECTS DURING CONSTRUCTION IS A REQUIREMENT. FAILURE TO RETAIN THE ENGINEER, OR HIS CHOICE OF THIRD PARTY, TO REVIEW THE CONTRACTOR'S PROCEDURES AND MONITOR CONSTRUCTION WILL RESULT IN McELHANNEY CONSULTING SERVICES LTD. BEING UNABLE TO CERTIFY THE CONSTRUCTED WORKS.

**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-34-01 LONG. W129-43-45  
N 6269430 E 455190
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 2.6 sq.km  
-AREA ABOVE TREELINE APPROX. 0.4 sq.km  
-Q100 FLOW ESTIMATED AT 11.7 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 555.98m  
-ESTIMATED MAX. STREAM VELOCITY = 2.8 m/sec  
-ESTIMATED H.W.L. ELEVATION = 557.0m
- STREAM RIPARIAN CLASS S3 (FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-620.**
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.**
- FOR ADDITIONAL NOTES SEE DRAWING 1506-0-235-01.**

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-01-12

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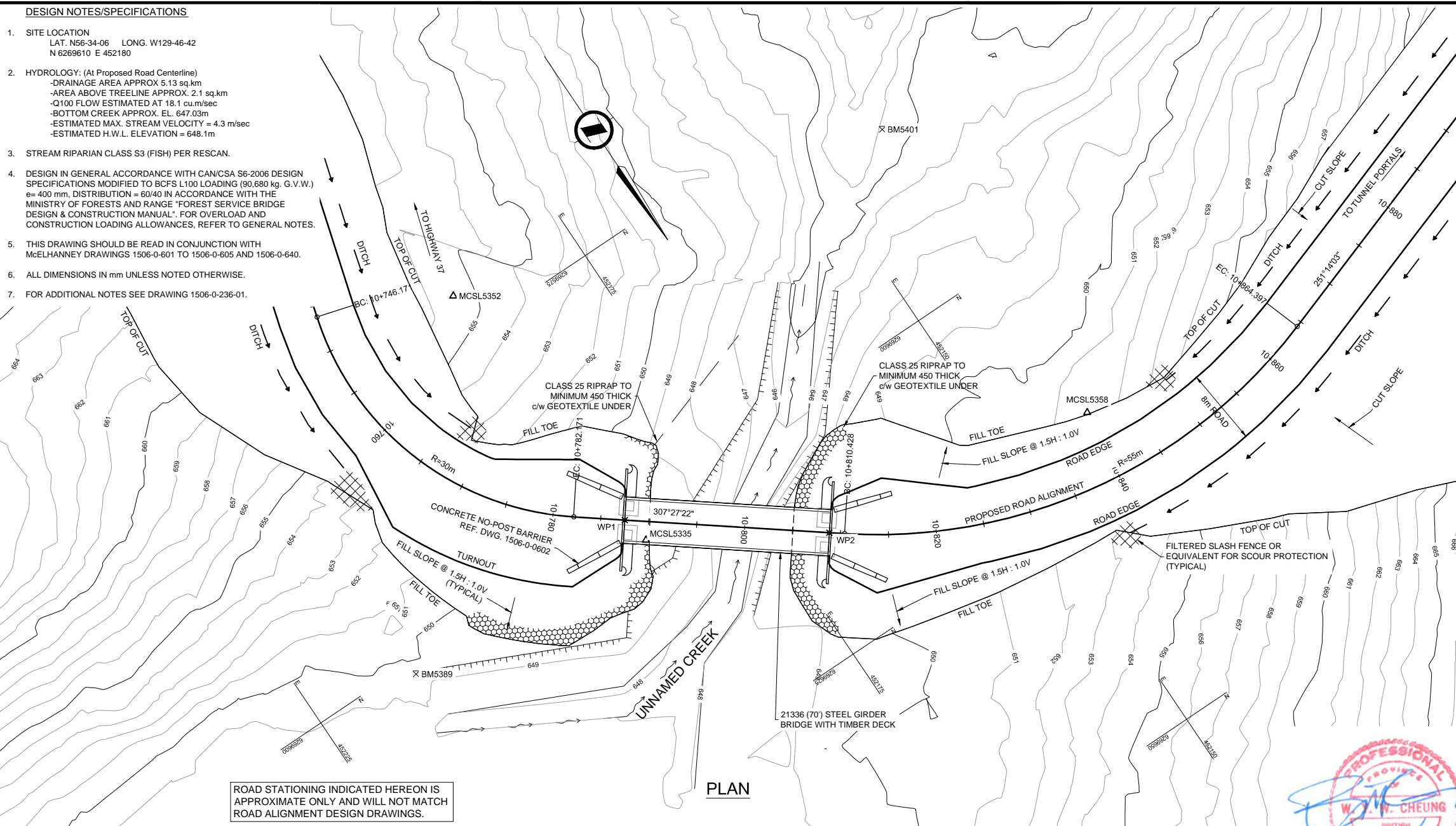
**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R035) - Km 7.1±  
PLAN - GENERAL ARRANGEMENT

Client Project No.  
Client Drawing No.  
MCSL Project No. 2341-01506-0  
Drawing No.  
**01506-235-03**  
Sheet 3 of 3 Revision A

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**DESIGN NOTES/SPECIFICATIONS**

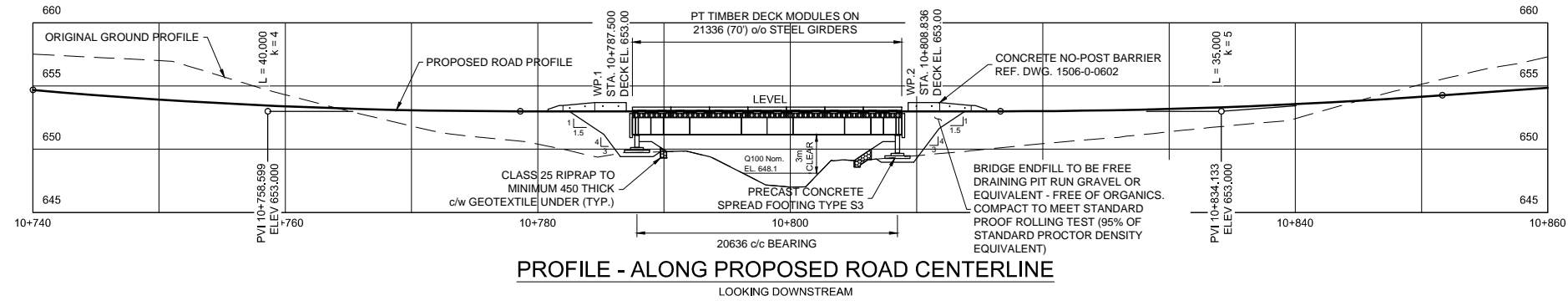
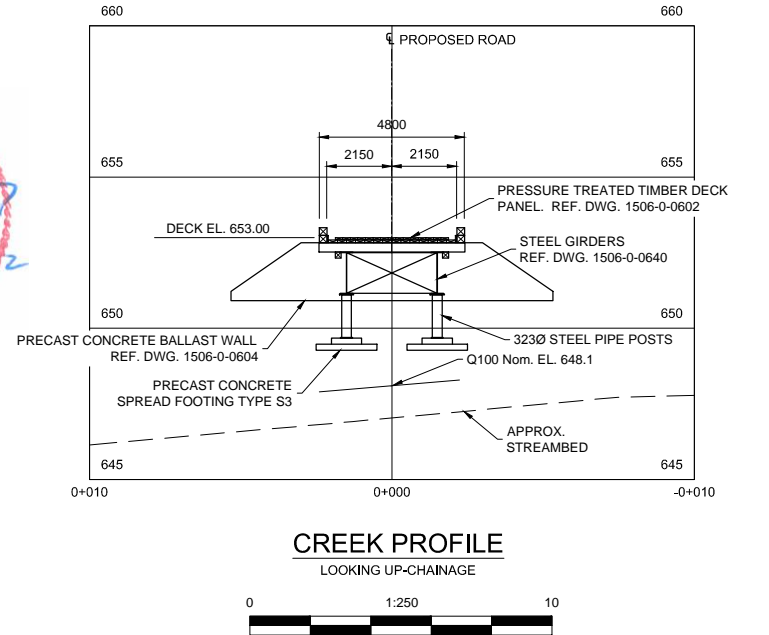
- SITE LOCATION**  
LAT. N56-34-06 LONG. W129-46-42  
N 6269610 E 452180
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 5.13 sq.km  
-AREA ABOVE TREELINE APPROX. 2.1 sq.km  
-Q100 FLOW ESTIMATED AT 18.1 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 647.03m  
-ESTIMATED MAX. STREAM VELOCITY = 4.3 m/sec  
-ESTIMATED H.W.L. ELEVATION = 648.1m
- STREAM RIPARIAN CLASS S3 (FISH) PER RESCAN.
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.)  
e = 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
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- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-0-236-01.



SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
MC5L5335	6269603.102	452186.295	650.250	---	---
MC5L5352 - B.S.	6269570.819	452188.743	656.772	32.376	175-39-44
WP1	6269600.146	452186.950	653.000	3.028	167-29-19
WP2	6269613.121	452170.013	653.000	19.117	301-36-34
MC5L5358	6269617.721	452140.760	651.374	47.824	287-48-00
BM5389	6269601.320	452213.930	650.910	27.693	93-41-18
BM5401	6269581.370	452142.020	646.250	49.320	243-51-24

\*NOMINAL DECK ELEVATION

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No.	Date	Revision	Dr.	CK'd
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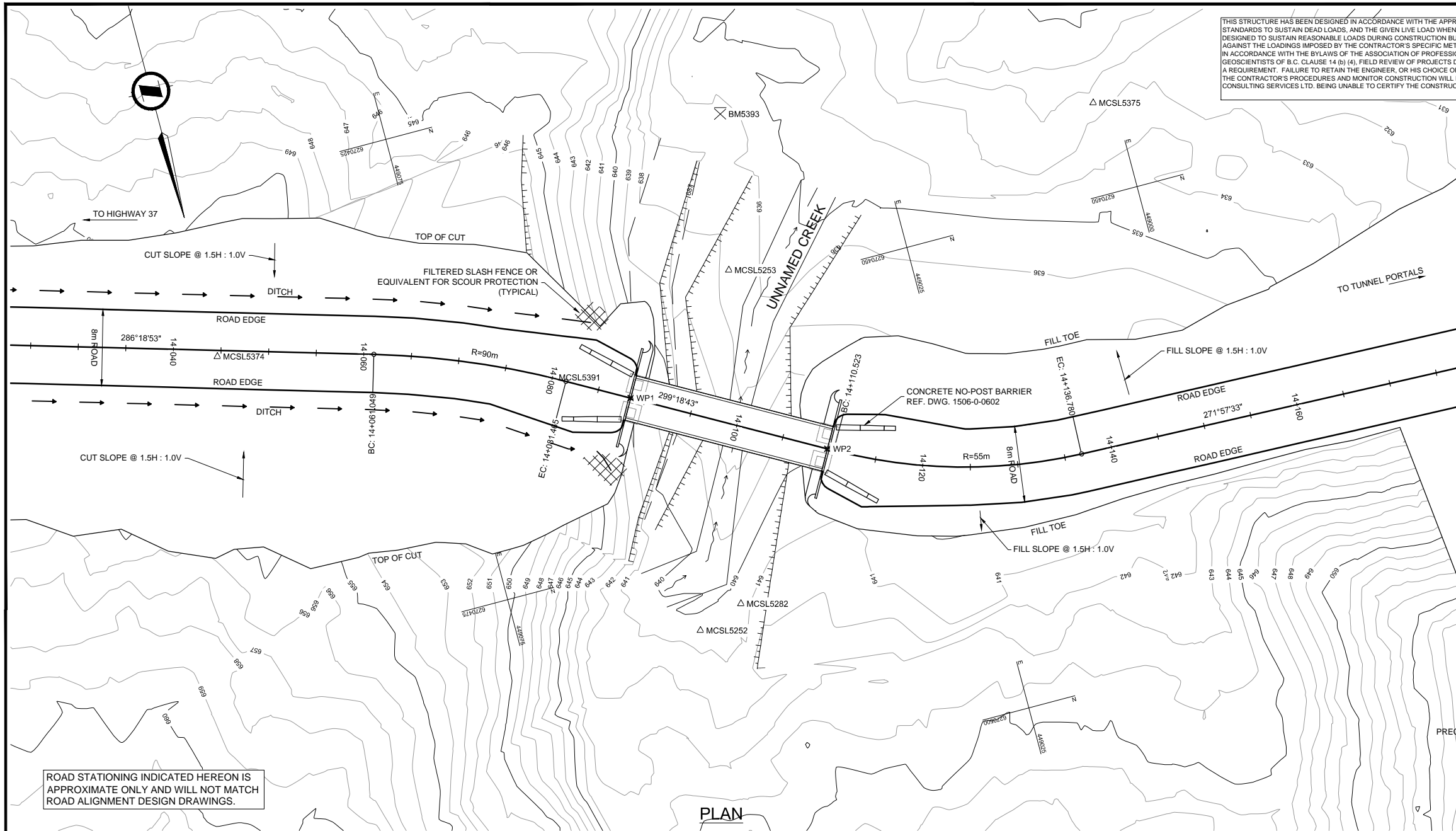
Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-01-12

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**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R036) - Km 10.8±  
GENERAL ARRANGEMENT

Client Project No. \_\_\_\_\_  
Client Drawing No. \_\_\_\_\_  
MCSL Project No. 2341-01506-0  
Drawing No. \_\_\_\_\_  
**01506-236-03**  
Sheet 3 of 3 Revision A

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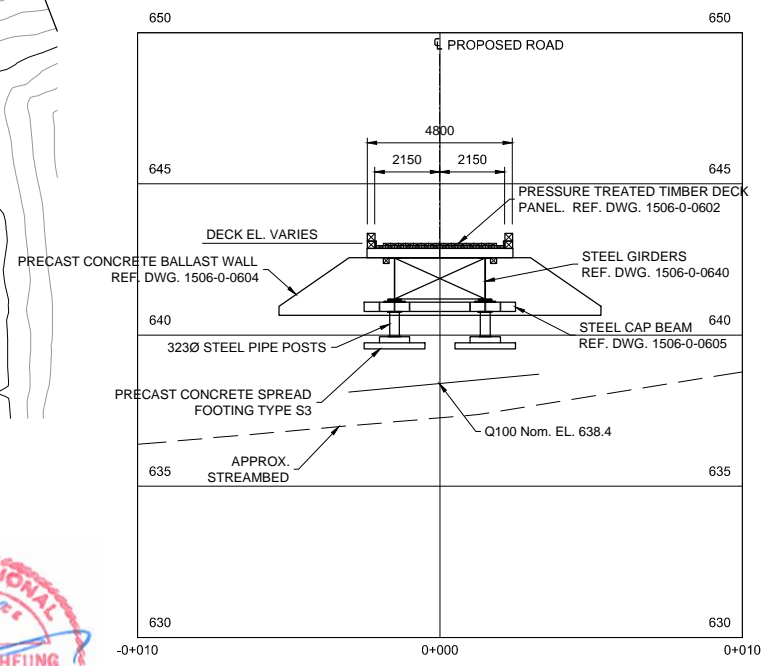
SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
MCSL5252	6270483.314	449056.265	641.395	---	---
MCSL5253 - B.S.	6270447.512	449043.681	636.734	37.950	199-21-59
MCSL5282	6270481.691	449051.427	640.541	5.103	251-26-52
MCSL5374	6270442.518	449097.933	652.846	58.314	134-23-40
MCSL5375	6270440.336	449002.203	632.791	69.064	231-30-59
MCSL5391	6270453.667	449064.410	647.880	30.746	164-38-22
BM5393	6270431.439	449040.358	638.443	54.259	197-02-53
WP1	6270457.853	449057.084	643.500	25.475	178-09-29
WP2	6270468.290	449038.495	642.648	23.271	229-47-10

\*NOMINAL DECK ELEVATION

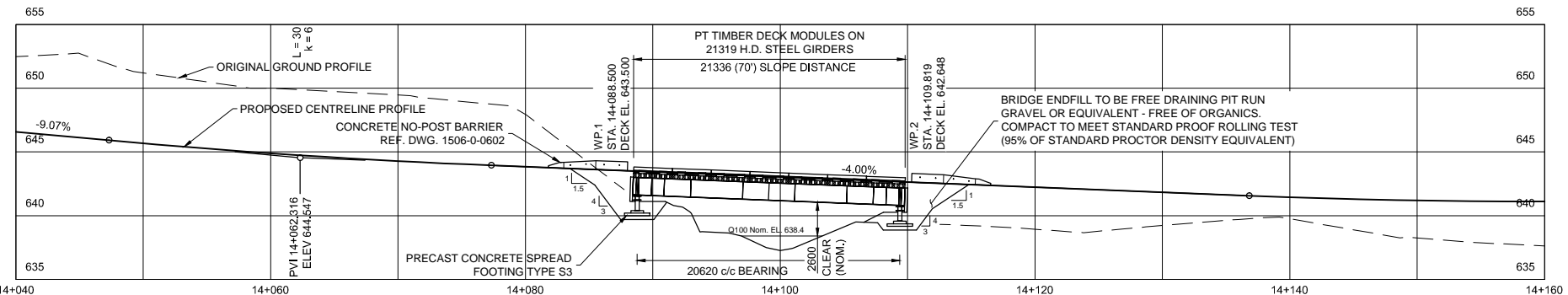
**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-34-32 LONG. W129-49-46  
N 6270460 E 449045
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 4.4 sq.km  
-AREA ABOVE TREELINE APPROX. 3.6 sq.km  
-Q100 FLOW ESTIMATED AT 17.4 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 637.3m  
-ESTIMATED MAX. STREAM VELOCITY = 4.8 m/sec  
-ESTIMATED H.W.L. ELEVATION = 638.4m
- STREAM RIPARIAN CLASS S2 (FISH) PER RESCAN.
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e=400 mm. DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE 'FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL'. FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-640.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-0-237-01.

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



**CREEK PROFILE**  
LOOKING UP-CHAINAGE



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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www.mcelhanney.com Toll Free (866) 451-2229

Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 11-12-21  
0 1:500 25  
UNLESS OTHERWISE NOTED

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R037) - Km 14.1±  
GENERAL ARRANGEMENT

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-237-03</b>
Sheet	0 of 0
Revision	A

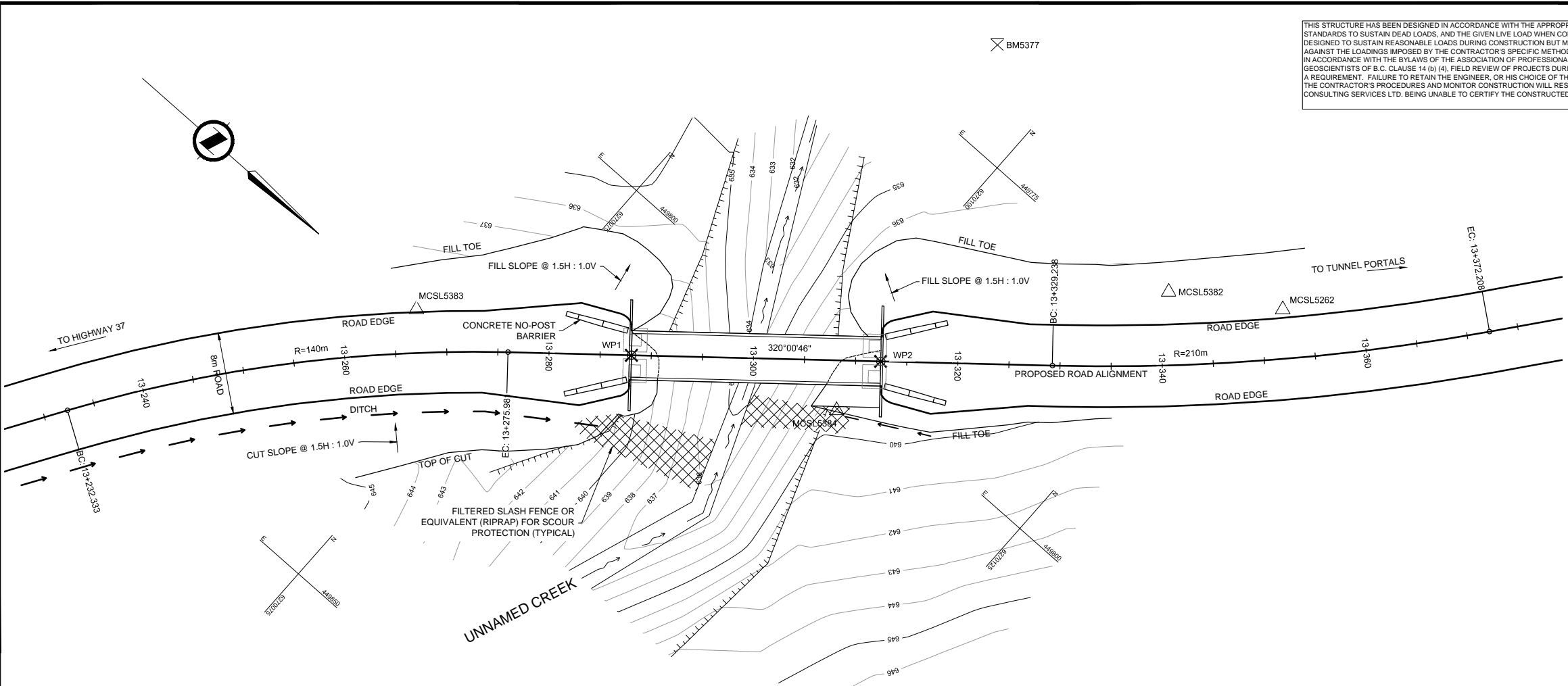
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SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
MCSL5284	6270093.902	449849.575	642.62	---	---
BM5377	- B.S.	6270092.075	449765.972	634.28	47.447 282-11-18
MCSL5384	6270103.919	449803.197	639.57	81.092	289-14-26
MCSL5382	6270120.624	449773.012	637.43	38.185	224-12-52
MCSL5383	6270066.533	449822.946	640.74	38.014	257-09-26
WP1	6270085.30	449812.42	641.433	53.782	280-48-04
WP2	6270103.98	449796.75	641.189	83.623	268-44-53

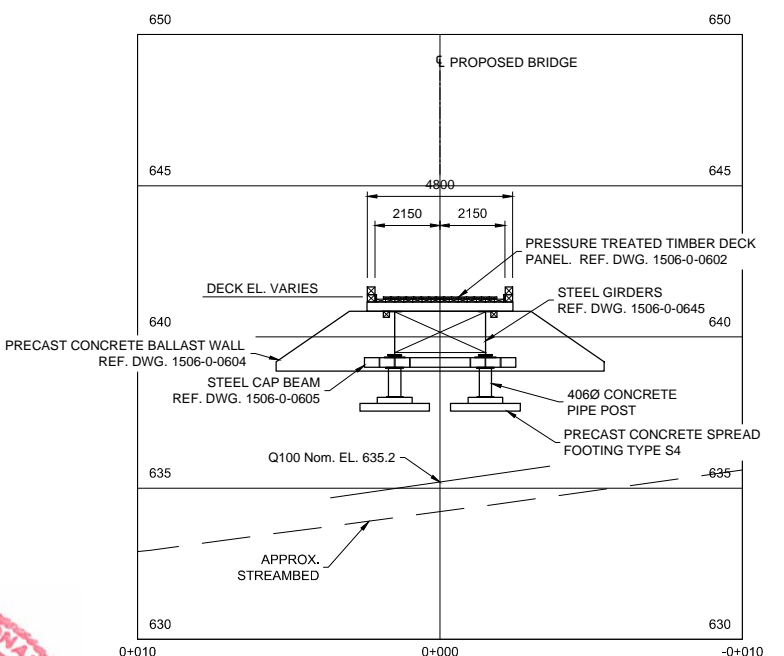
\*NOMINAL DECK ELEVATION



PLAN

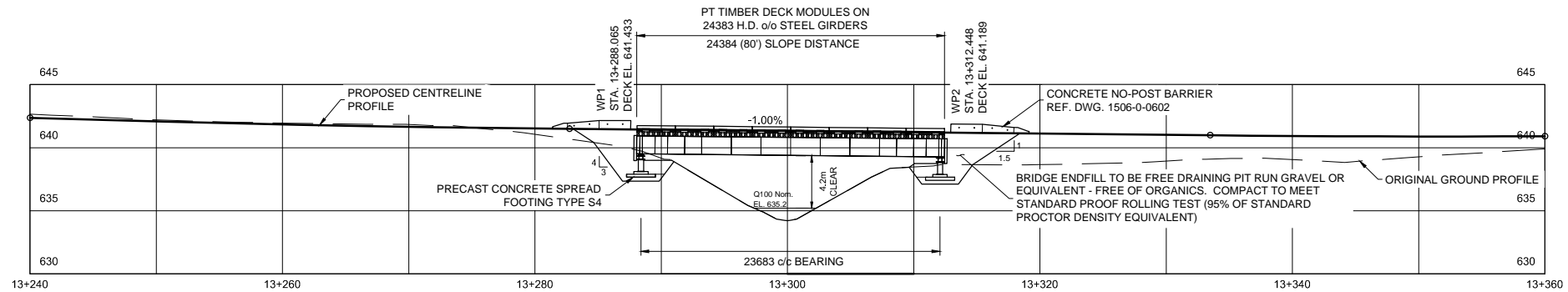
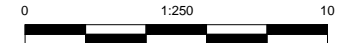
DESIGN NOTES/SPECIFICATIONS

- SITE LOCATION  
LAT. N56-34-21 LONG. W129-49-01  
N 6270100 E 449805
- HYDROLOGY: (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 3.3 sq.km  
-AREA ABOVE TREELINE APPROX. 1.1 sq.km  
-Q100 FLOW ESTIMATED AT 10.8 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 634.21m  
-ESTIMATED MAX. STREAM VELOCITY = 4.7 m/sec  
-ESTIMATED H.W.L. ELEVATION = 635.2m
- STREAM RIPARIAN CLASS S3 (FISH) PER RESCAN.
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm. DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
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- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-0-238-01.



CREEK PROFILE

LOOKING UP-CHAINAGE



PROFILE - ALONG PROPOSED ROAD CENTERLINE

LOOKING DOWNSTREAM

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

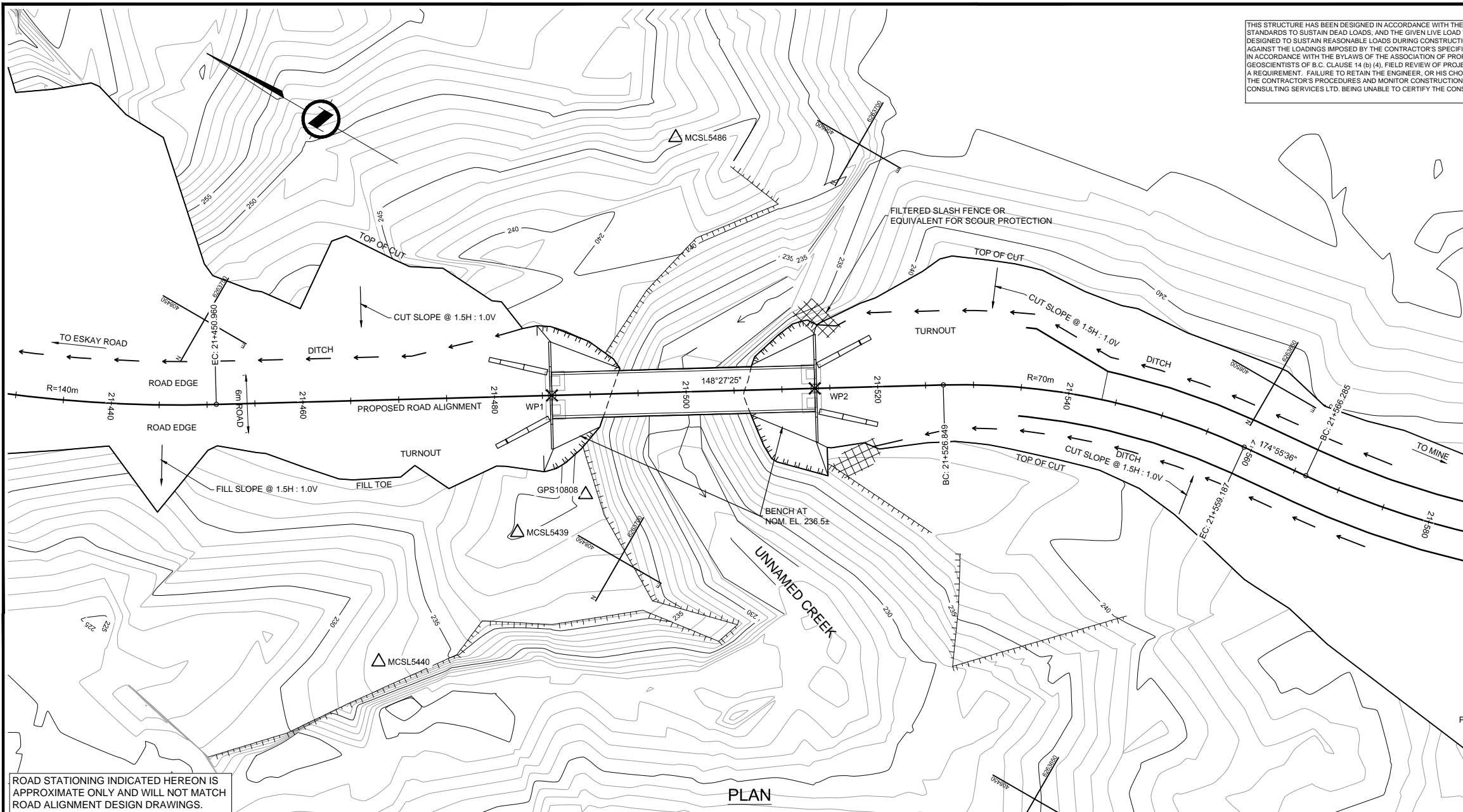
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 www.mcelhanney.com Toll Free (866) 451-2229

Designed: RAO Checked: WWC QC: RWP  
 Drawn: DMW Date: 12-08-16  
 0 1:500 25  
 UNLESS OTHERWISE NOTED

**SEABRIDGE GOLD INC.**  
**PROPOSED MINE ACCESS - TREATY ROUTE**  
**UNNAMED CREEK (R038) - Km 13.3±**  
**GENERAL ARRANGEMENT**

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-238-03</b>
Sheet	3 of 3
Revision	A



THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE APPROPRIATE CODES AND STANDARDS TO SUSTAIN DEAD LOADS, AND THE GIVEN LIVE LOAD WHEN COMPLETE. IT HAS BEEN DESIGNED TO SUSTAIN REASONABLE LOADS DURING CONSTRUCTION BUT MUST BE CHECKED AGAINST THE LOADINGS IMPOSED BY THE CONTRACTOR'S SPECIFIC METHOD OF CONSTRUCTION. IN ACCORDANCE WITH THE BYLAWS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF B.C. CLAUSE 14 (b) (4), FIELD REVIEW OF PROJECTS DURING CONSTRUCTION IS A REQUIREMENT. FAILURE TO RETAIN THE ENGINEER, OR HIS CHOICE OF THIRD PARTY, TO REVIEW THE CONTRACTOR'S PROCEDURES AND MONITOR CONSTRUCTION WILL RESULT IN McELHANNEY CONSULTING SERVICES LTD. BEING UNABLE TO CERTIFY THE CONSTRUCTED WORKS.

SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
WP1	6263714.660	408461.282	239.000	---	---
WP2	-B.S.	6263691.281	408475.632	239.000	38.400 254-10-07
MCSL5486	6263716.934	408491.035	248.895	44.373	261-50-05
GPS10808	6263706.458	408454.092	239.155	62.855	269-31-58
MCSL5439	6263710.632	408447.111	240.242	29.840	265-37-50
MCSL5440	6263716.421	408428.182	233.523	29.921	210-58-54

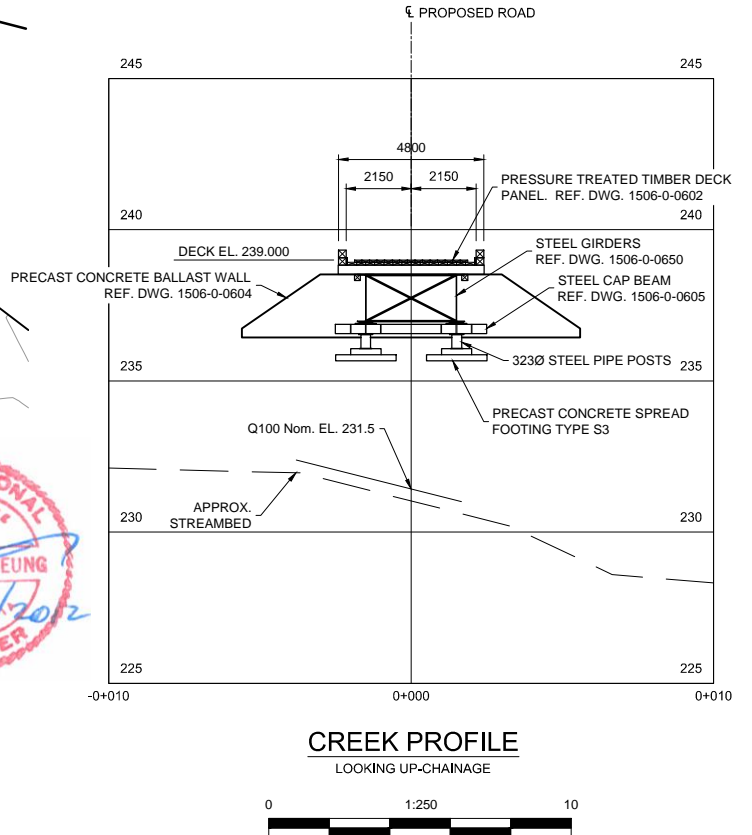
\*NOMINAL DECK ELEVATION

**DESIGN NOTES/SPECIFICATIONS**

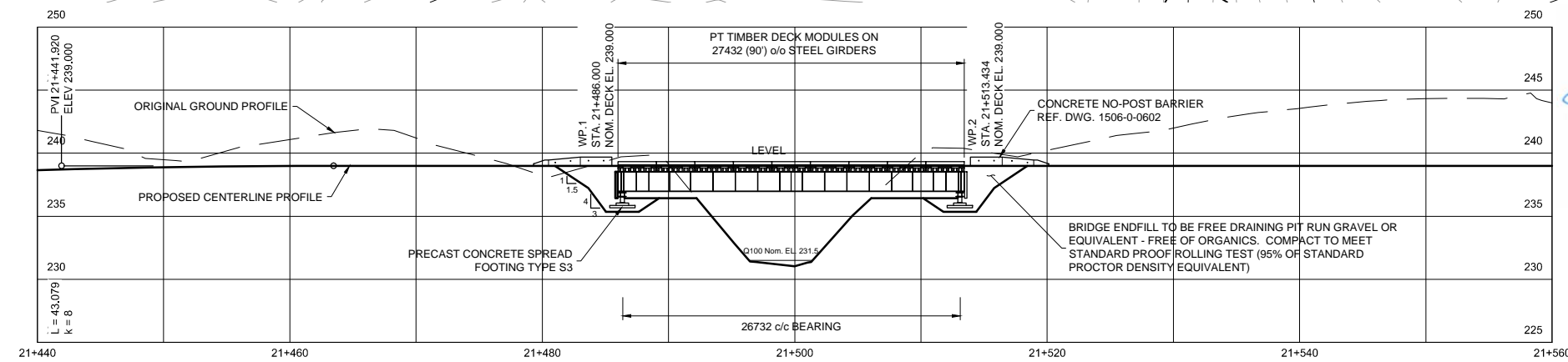
- SITE LOCATION**  
LAT. N56-30-32 LONG. W130-29-14  
N 6263700 E 408465
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 1.91 sq.km  
-AREA ABOVE TREELINE APPROX. 0.15 sq.km  
-Q100 FLOW ESTIMATED AT 11.4 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 231.04m  
-ESTIMATED MAX. STREAM VELOCITY = 6.0 m/sec  
-ESTIMATED H.W.L. ELEVATION = 231.5m
- STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-650.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-242-01.

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**PLAN**



**CREEK PROFILE**  
LOOKING UP-CHAINAGE



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING UPSTREAM



No.	Date	Revision	Dr.	CHK
A	OCT. 2012	ISSUED FOR PERMITTING		

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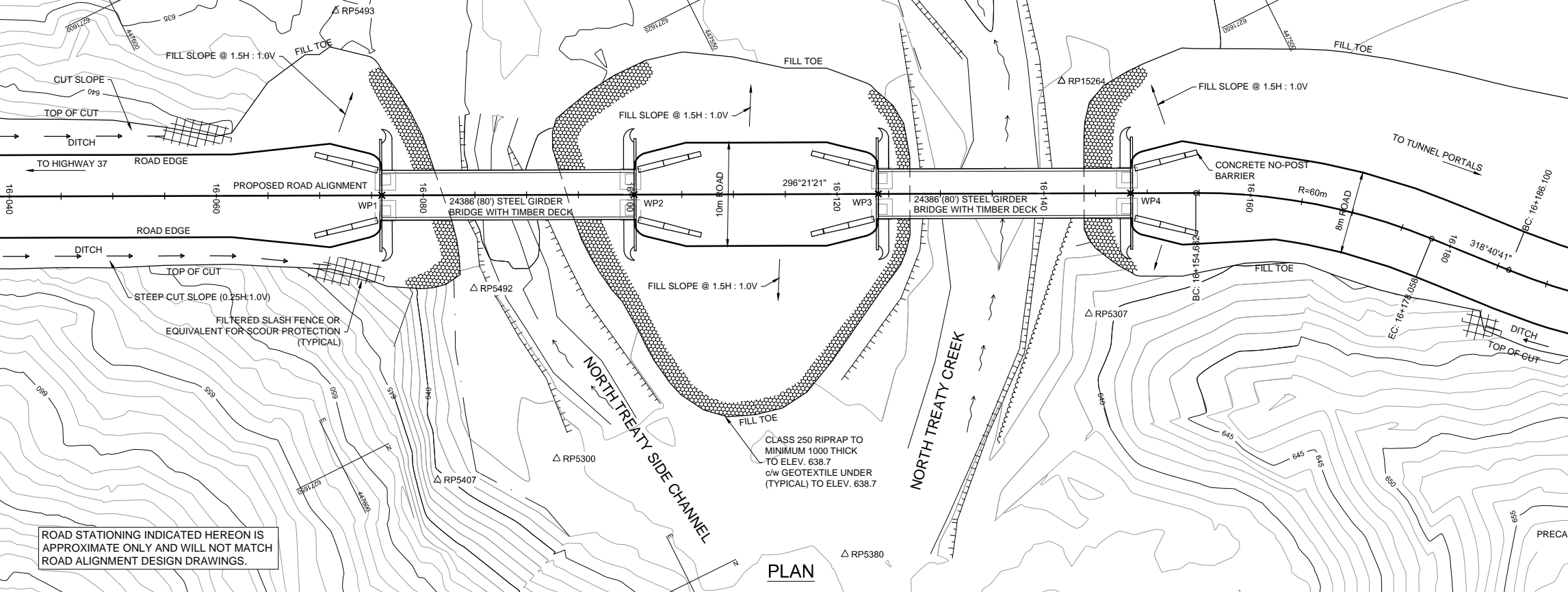
**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - COULTER ROUTE  
UNNAMED CREEK (C042) - Km 21.5±  
GENERAL ARRANGEMENT

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-242-03</b>
Sheet	0 of 0
Revision	A

H:\PROJ\2341\1506-159A\1506 Seabridge KSM Project\200.0 Crossings\242.0 Site\_C042 - Unnamed Creek\242.10 Drawings\C042 WORKING.dwg 11/19/2012 3:11:25 PM

**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-35-10 LONG. W129-51-14  
N 6271650 E 447550
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX. 33.2 sq.km  
-AREA ABOVE TREELINE APPROX. 20 sq.km  
-Q100 FLOW ESTIMATED AT 83.2 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 635.7m  
-ESTIMATED MAX. STREAM VELOCITY = 3.4 m/sec
- STEAM RIPARIAN CLASS S1 (FISH) PER RESCAN.
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-645.
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL NOTES SEE DRAWING 1506-0-245-01.

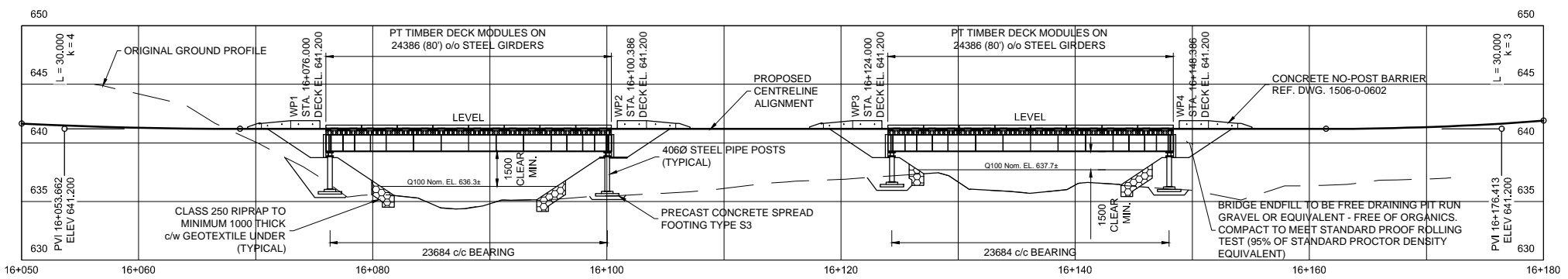
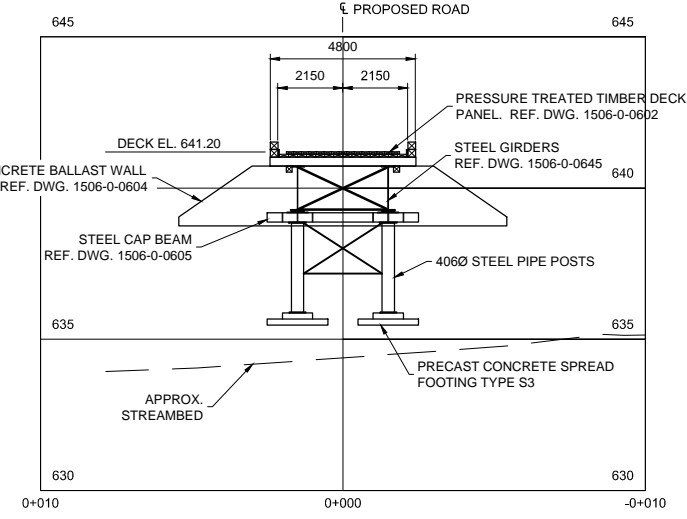


SURVEY CONTROL - NORTH TREATY SIDE CHANNEL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP5407	6271655.256	447592.348	641.311	---	---
RP5300 - B.S.	6271658.558	447581.132	639.077	11.692	286-24-14
RP5493	6271610.240	447580.903	634.999	46.448	194-15-53
WP1	6271628.207	447584.885	641.200	28.059	195-25-31
WP2	6271639.032	447563.035	641.200	33.503	241-02-13

SURVEY CONTROL - NORTH TREATY CREEK					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP15264	6271647.682	447521.123	636.251	---	---
RP5307 - B.S.	6271669.002	447528.842	639.796	22.674	19-54-12
RP5380	6271679.285	447560.327	637.372	50.356	51-07-37
RP15267	6271630.495	447517.950	635.983	17.480	190-27-31
RP5490	6271620.396	447514.903	636.708	27.986	192-50-26
RP5494	6271631.295	447492.456	636.637	33.020	240-14-46
RP5381	6271654.415	447471.930	635.243	49.652	277-47-37
WP3	6271649.517	447541.874	641.200	20.832	84-56-51
WP4	6271660.342	447520.025	641.200	12.707	355-02-32

\*NOMINAL DECK ELEVATION

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**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING UPSTREAM

No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-01-16  
0 1:500 25  
UNLESS OTHERWISE NOTED

Approved Sealed

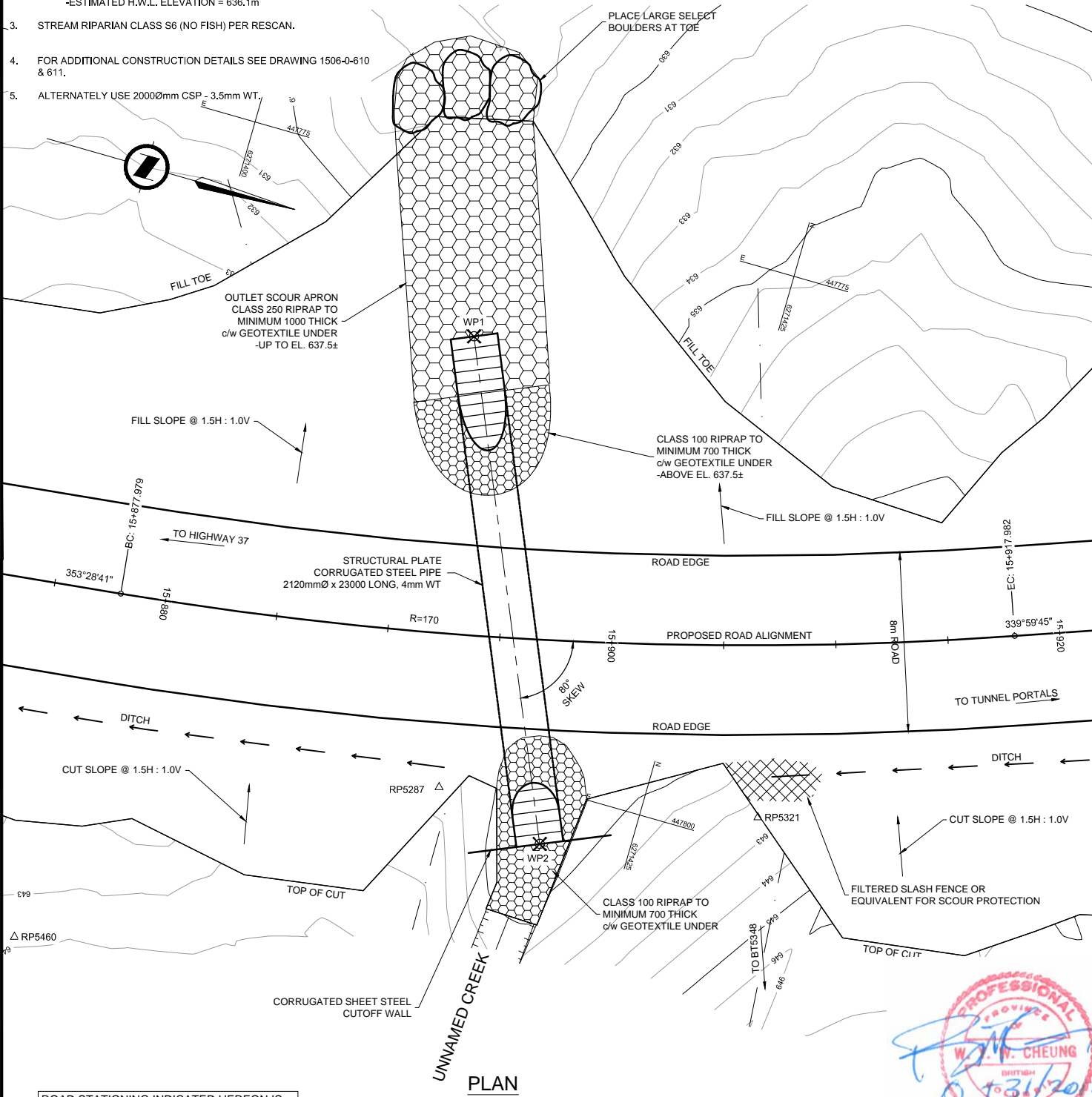
**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
NORTH TREATY CREEK (R045) - Km 16.11±  
GENERAL ARRANGEMENTS

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-245-03</b>
Sheet	3 of 3
Revision	A

NOTES

- SITE LOCATION  
LAT. N56-35-03 LONG. W129-51-00  
N 6271420 E 447790
- HYDROLOGY: (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 1.0 sq.km  
-AREA ABOVE TREELINE APPROX. 0.4 sq.km  
-Q100 FLOW ESTIMATED AT 5.8 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 635.47m  
-ESTIMATED MAX. STREAM VELOCITY = 7.4 m/sec  
-ESTIMATED H.W.L. ELEVATION = 636.1m
- STREAM RIPARIAN CLASS S6 (NO FISH) PER RESCAN.
- FOR ADDITIONAL CONSTRUCTION DETAILS SEE DRAWING 1506-0-610 & 611.
- ALTERNATELY USE 2000mm CSP - 3.5mm WT.

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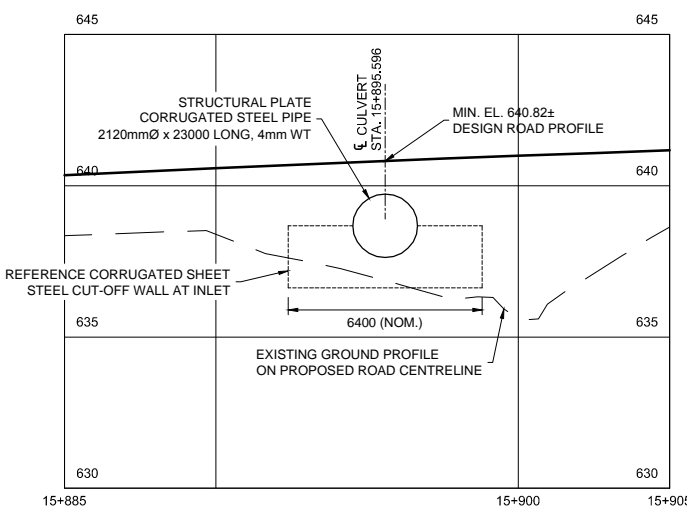
PLAN

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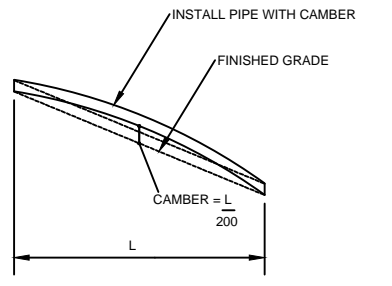


SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP5321	6271430.103	447798.649	642.530	---	---
BT5348 - B.S.	6271434.362	447810.148	648.390	12.262	69-40-31
RP5287	6271416.064	447801.268	641.785	14.281	169-26-05
WP1	6271412.022	447781.503	636.00	24.919	223-28-49
WP2	6271421.071	447802.469	638.74	9.807	157-04-31

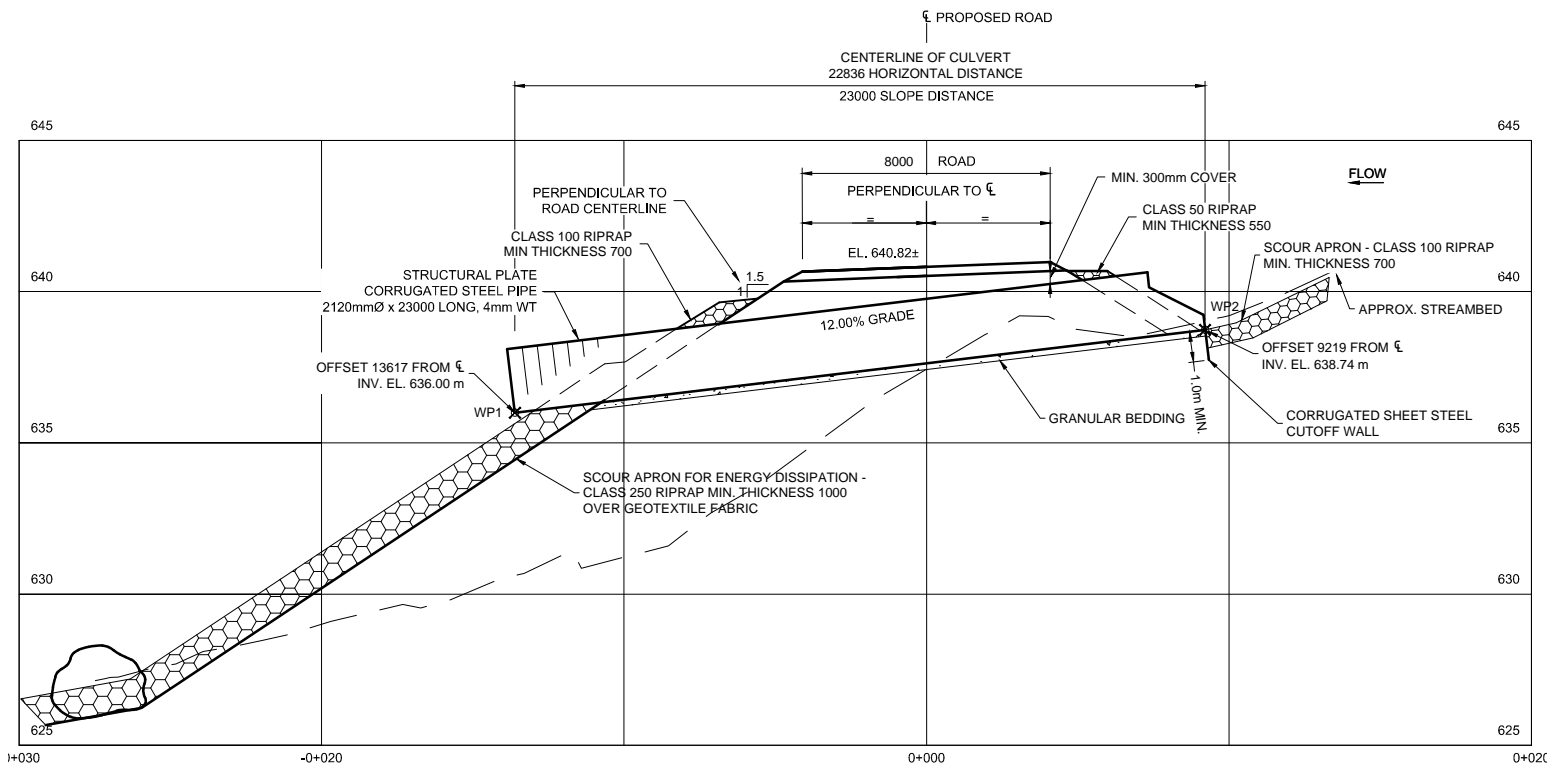
\*NOMINAL INVERT ELEVATION



PROFILE - ALONG PROPOSED ROAD CENTERLINE  
LOOKING DOWNSTREAM



CULVERT CAMBER INSTALLATION  
SCALE N.T.S.



CENTRELINE CULVERT PROFILE  
LOOKING UP-CHAINAGE

No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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Designed: RAO  
Checked: WWC  
QC: RWP

Drawn: DMW  
Date: 12-08-15

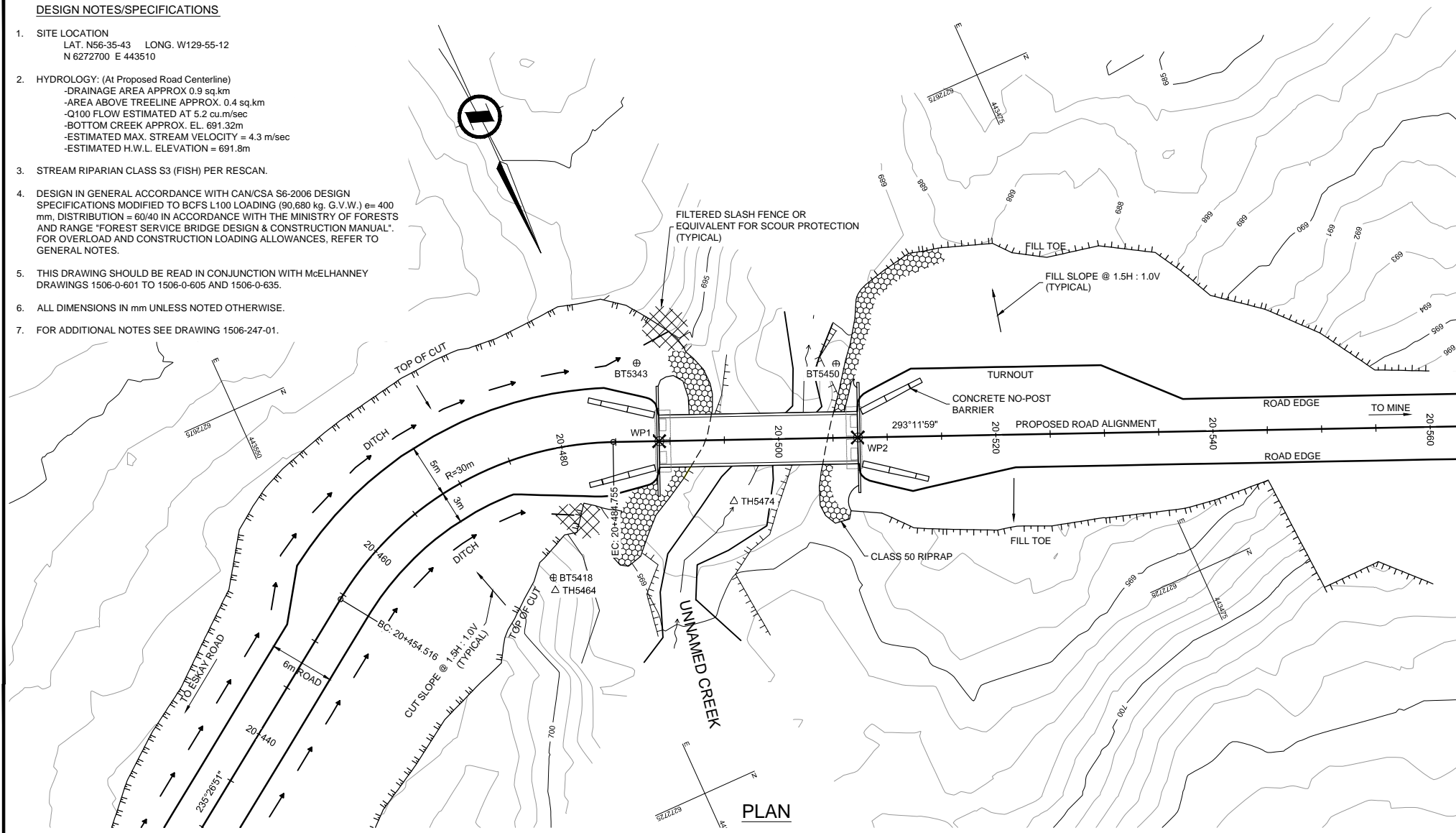
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**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R046) - Km 15.9±  
PLAN - EXISTING CONDITIONS

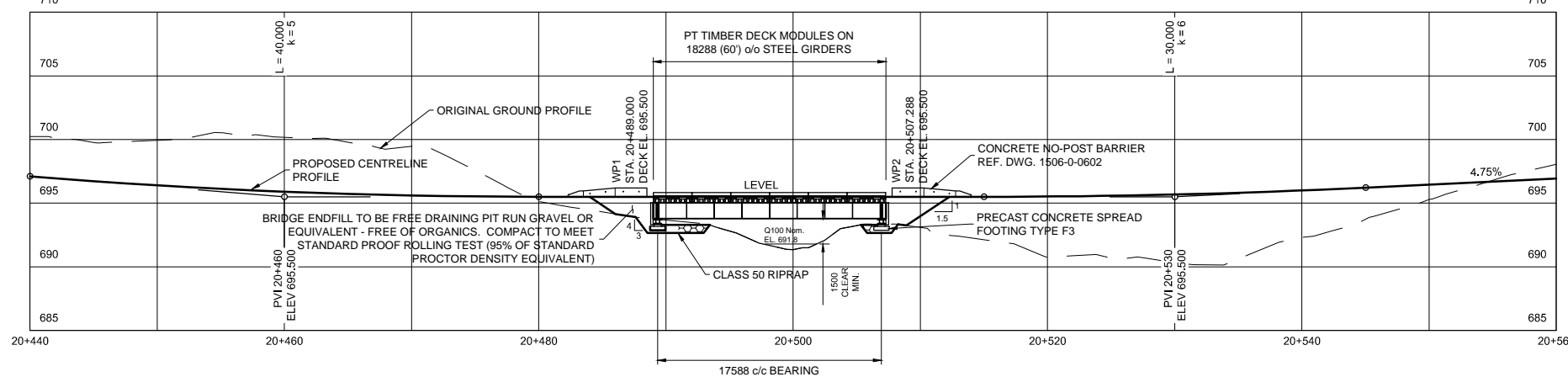
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Client Drawing No.	
MCSL Project No.	2341-01506-0
Drawing No.	01506-246-03
Sheet	3 of 3
Revision	A

**DESIGN NOTES/SPECIFICATIONS**

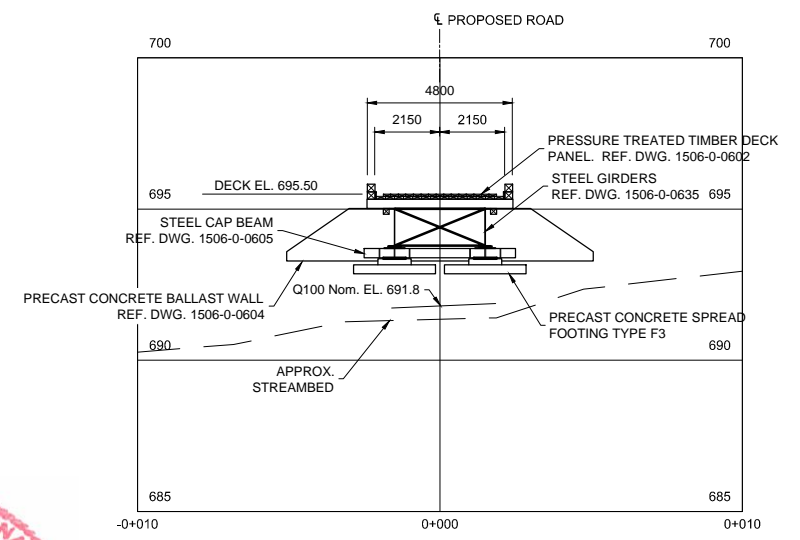
- SITE LOCATION**  
LAT. N56-35-43 LONG. W129-55-12  
N 6272700 E 443510
- HYDROLOGY:** (At Proposed Road Centerline)  
- DRAINAGE AREA APPROX 0.9 sq.km  
- AREA ABOVE TREELINE APPROX. 0.4 sq.km  
- Q100 FLOW ESTIMATED AT 5.2 cu.m/sec  
- BOTTOM CREEK APPROX. EL. 691.32m  
- ESTIMATED MAX. STREAM VELOCITY = 4.3 m/sec  
- ESTIMATED H.W.L. ELEVATION = 691.8m
- STREAM RIPARIAN CLASS S3 (FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg, G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-635.**
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.**
- FOR ADDITIONAL NOTES SEE DRAWING 1506-247-01.**



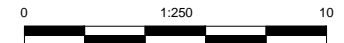
**PLAN**



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM



**CREEK PROFILE**  
LOOKING UP-CHAINAGE



0 1:250 10

UNLESS NOTED OTHERWISE

DESIGNED: RAO CHECKED: WWC QC: RWP  
DRAWN: DMW DATE: 12-02-09

0 1:500 25

UNLESS NOTED OTHERWISE

APPROVED SEALED

SEABRIDGE GOLD INC.  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R047) - Km 20.5±  
GENERAL ARRANGEMENT

Client Project No. 2341-01506-0  
Client Drawing No. 01506-247-03  
Drawing No. 3 of 3  
Revision A  
Destroy all prints bearing previous number

SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
TH5474	6272701.591	443511.499	692.822	---	---
TH5464	- B.S.	6272702.308	443529.860	698.340	18.375 87-45-47
BT5418	6272701.169	443529.543	699.537	18.050	91-20-20
BT5450	6272693.918	443497.743	693.763	15.750	240-50-51
BT5343	6272686.311	443514.457	696.993	15.564	169-02-27
WP1	6272693.715	443515.515	695.500	8.842	152-58-48
WP2	6272700.919	443498.706	695.500	12.810	266-59-32

\*NOMINAL DECK ELEVATION

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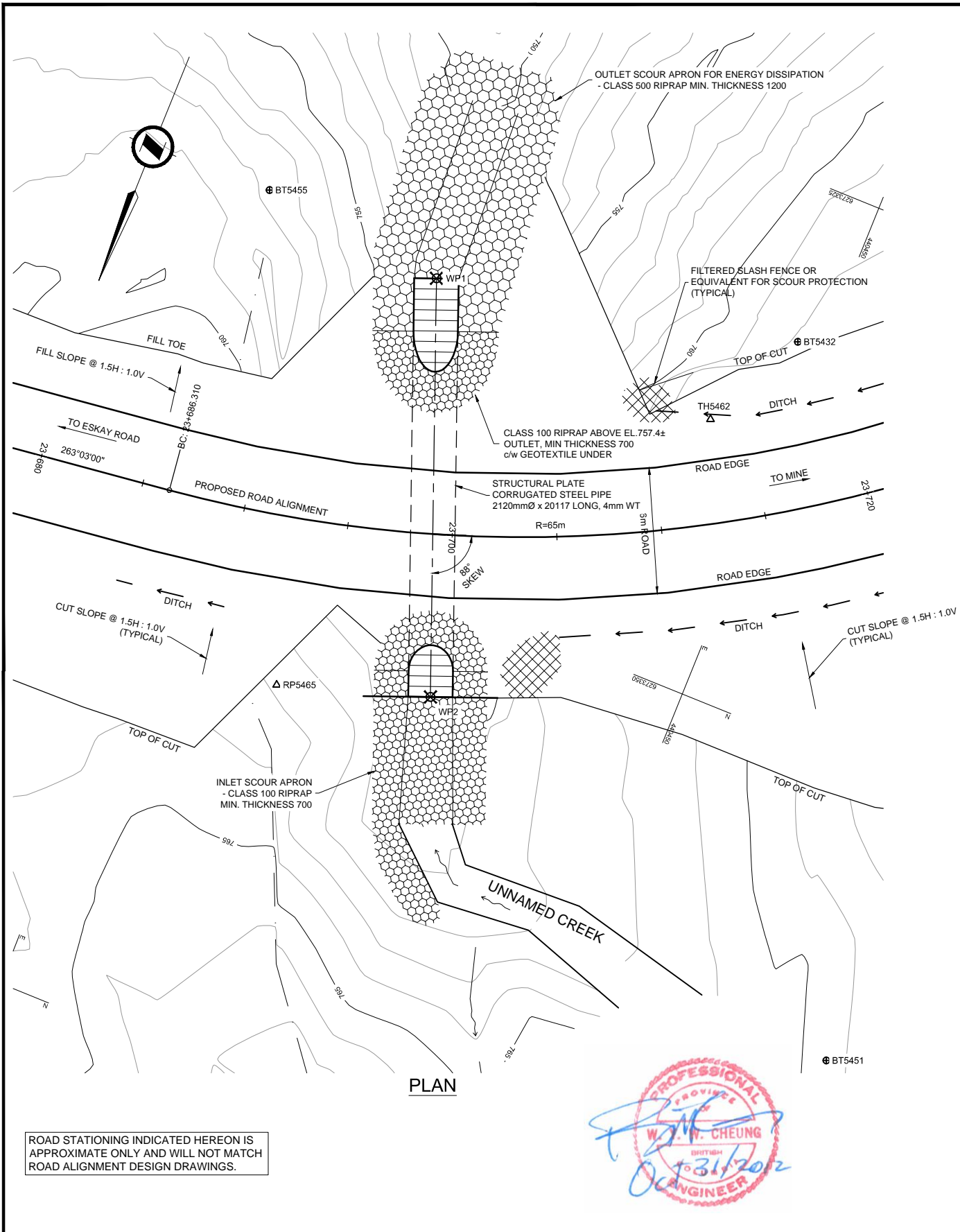
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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-02-09

No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

H:\PROJ\2341\1506-159A\1506 Stabridge KSM Project\200.0 Crossings\247.0 Site R047 - Unnamed Creek\247.0 Drawings\R047 WORKING.dwg, 11/2/2012 3:43:00 PM

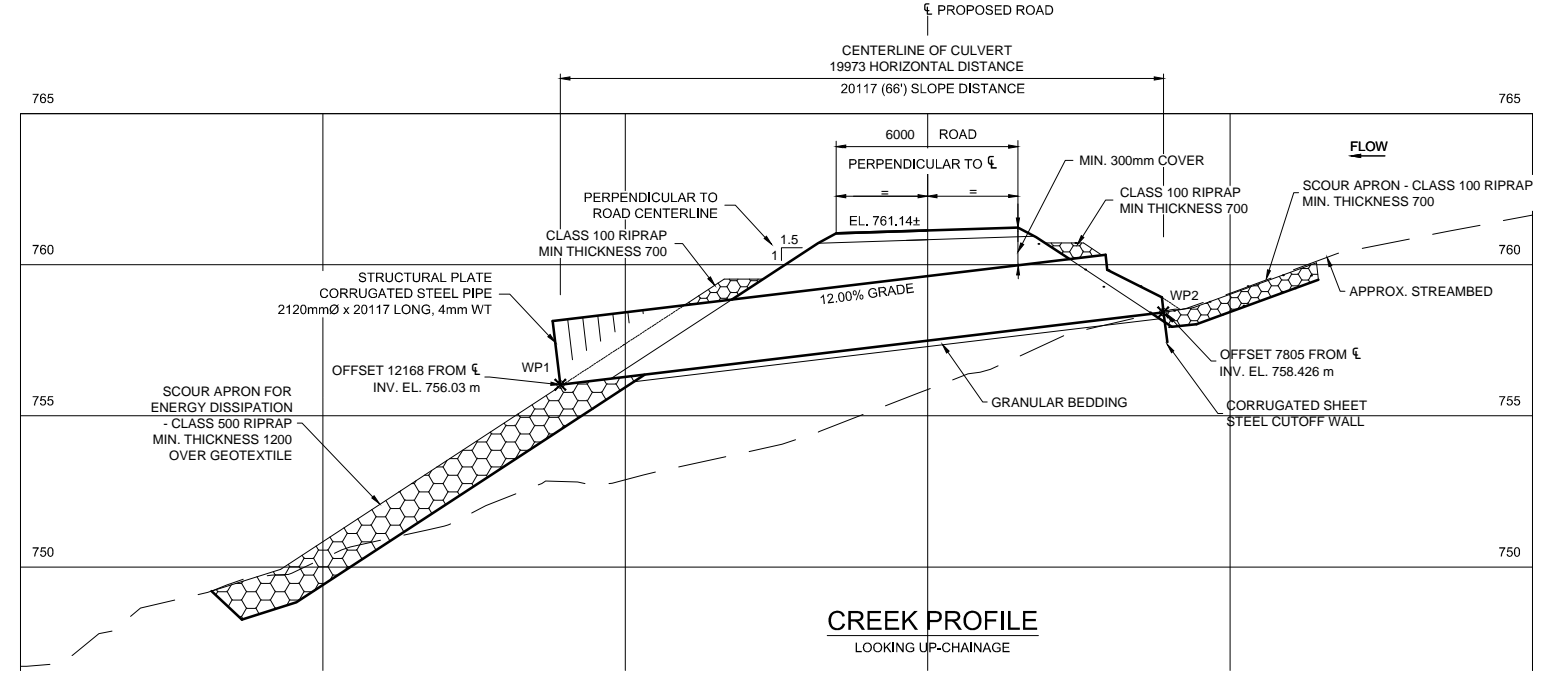
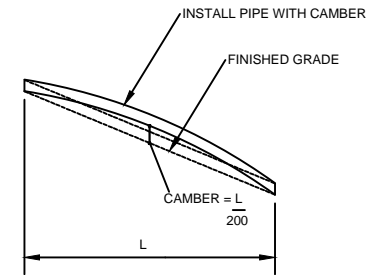
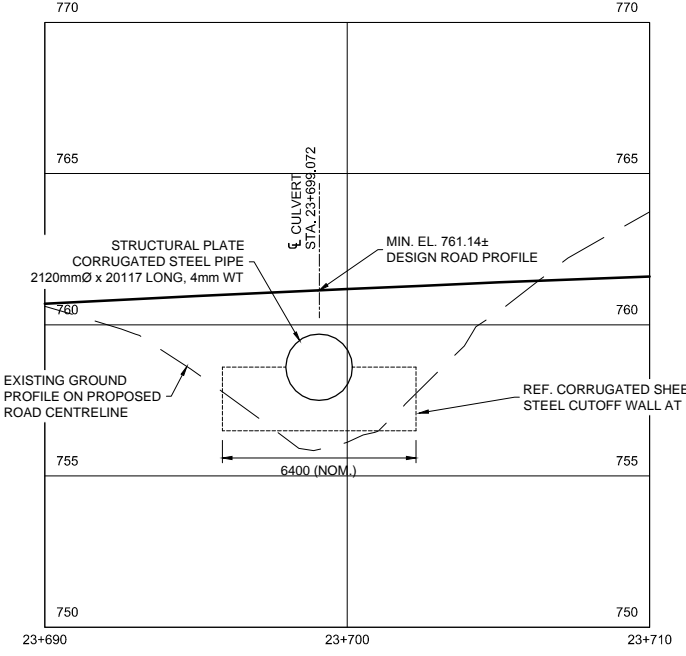


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SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP5465	6273356.853	440468.100	763.279	---	---
TH5462	- B.S.	6273337.338	440453.667	763.785	24.272 216-29-10
BT5455	6273335.101	440477.272	758.259	23.607	157-08-14
BT5432	6273332.352	440451.193	764.394	29.768	214-36-33
BT5451	6273363.618	440437.071	766.888	31.758	282-17-57
WP1	6273336.016	440468.312	756.03	20.838	179-25-05
WP2	6273354.637	440461.085	758.43	7.357	252-27-53

\*NOMINAL INVERT ELEVATION

- NOTES
- SITE LOCATION  
LAT. N56-36-02 LONG. W129-58-11  
N 6273350 E 440465
  - HYDROLOGY: (At Proposed Road Centerline)  
- DRAINAGE AREA APPROX 0.93 sq km  
- AREA ABOVE TREELINE APPROX. 0.2 sq km  
- Q100 FLOW ESTIMATED AT 5.4 cu.m/sec  
- BOTTOM CREEK APPROX. EL. 755.1m  
- ESTIMATED MAX. STREAM VELOCITY = 5.6 m/sec  
- ESTIMATED H.W.L. ELEVATION = 756.34m
  - STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.
  - FOR ADDITIONAL CONSTRUCTION DETAILS SEE DRAWING 1506-0-610 & 611.
  - ALTERNATELY USE 2000mm CSP - 3.5mm WT.



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-08-29  
0 1:250 10

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R048) - Km 23.7±  
GENERAL ARRANGEMENT

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	01506-248-03
Sheet	0 of 0
Revision	A

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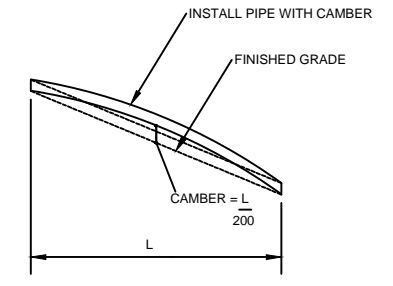
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SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP5293	6274659.140	437312.202	809.408	---	---
RP5309	-B.S.	6274632.537	437290.005	802.002	34.647
RP5346	6274640.536	437287.841	803.956	30.652	52-37-55
RP5337	6274658.073	437315.856	809.395	3.807	106-16-43
WP1	6274653.813	437310.313	807.000	5.652	199-31-33
WP2	6274639.985	437293.404	804.379	26.838	224-27-43

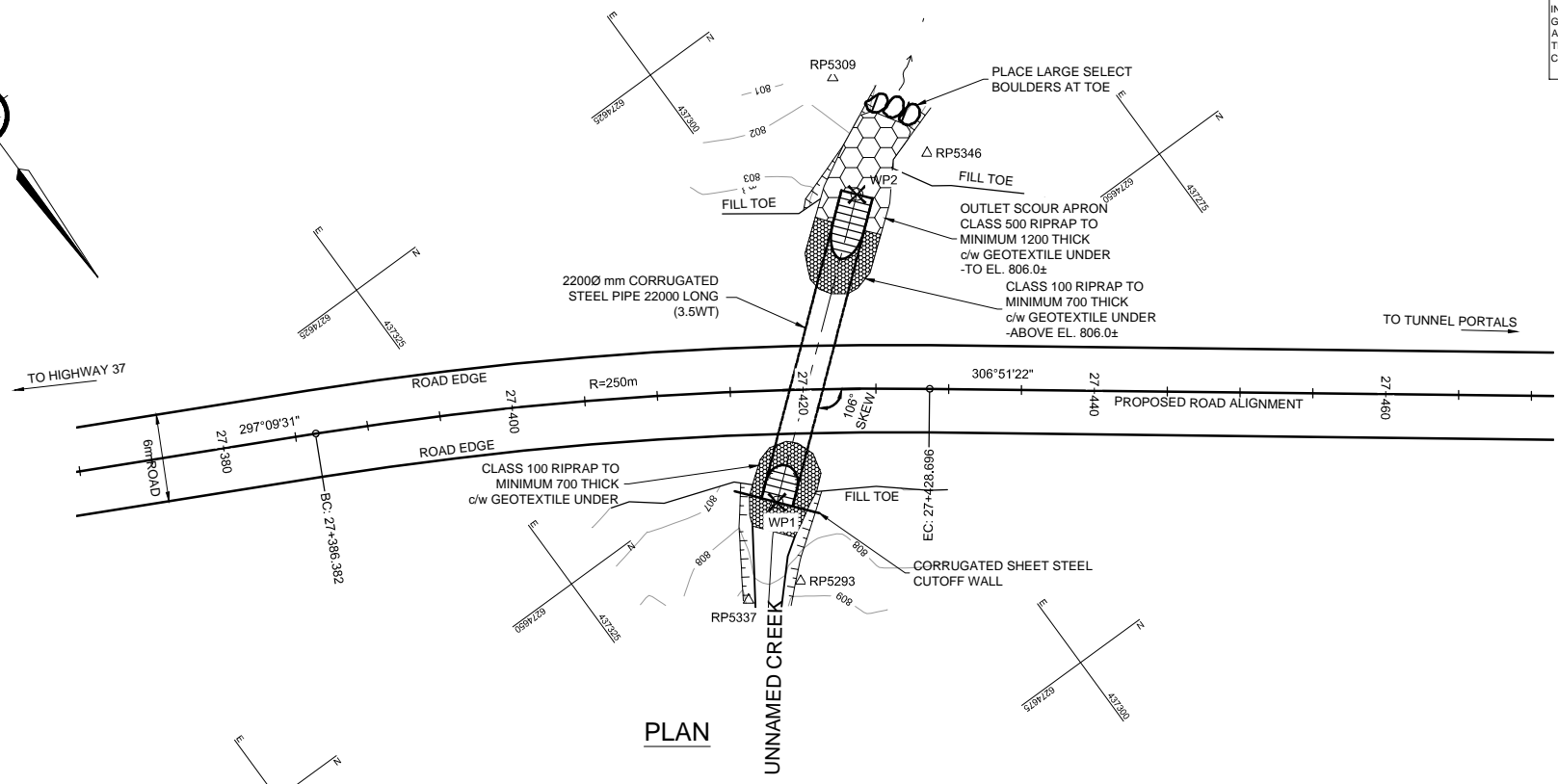
\*NOMINAL INVERT ELEVATION

**NOTES**

- SITE LOCATION**  
LAT. N56-36-43 LONG. W130-01-17  
N 6274650 E 437300
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 1.44 sq.km  
-AREA ABOVE TREELINE APPROX. 0.0 sq.km  
-Q100 FLOW ESTIMATED AT 7.7 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 805.00 m  
-ESTIMATED MAX. STREAM VELOCITY = 4.7 m/sec  
-ESTIMATED H.V.L. ELEVATION = 855.40m
- STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.
- FOR ADDITIONAL CONSTRUCTION DETAILS SEE DRAWING 1506-0-610 & 611.

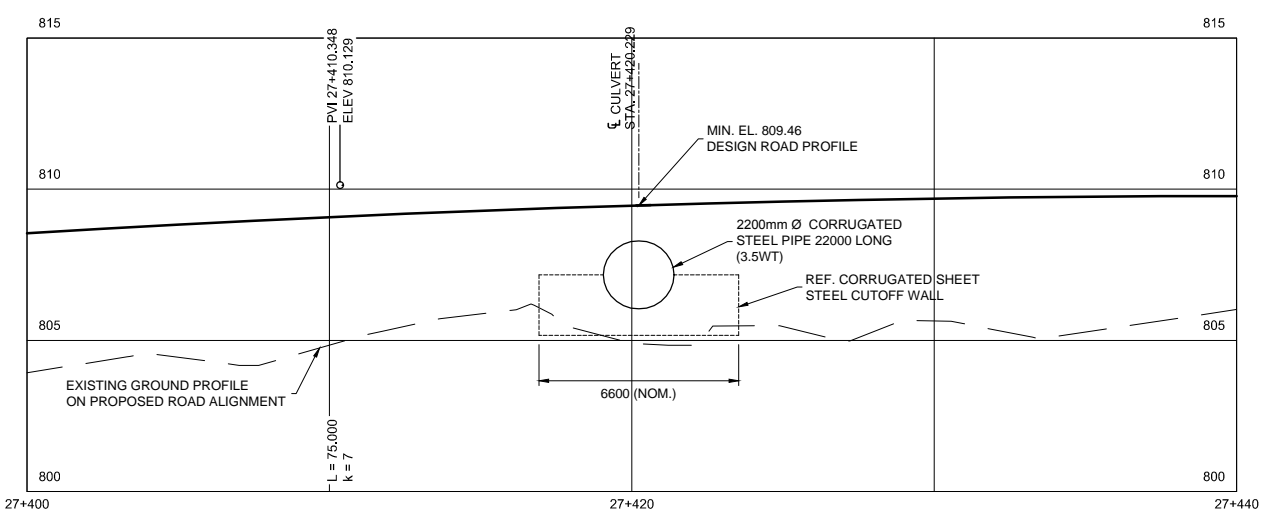


**CULVERT CAMBER INSTALLATION**  
SCALE N.T.S.

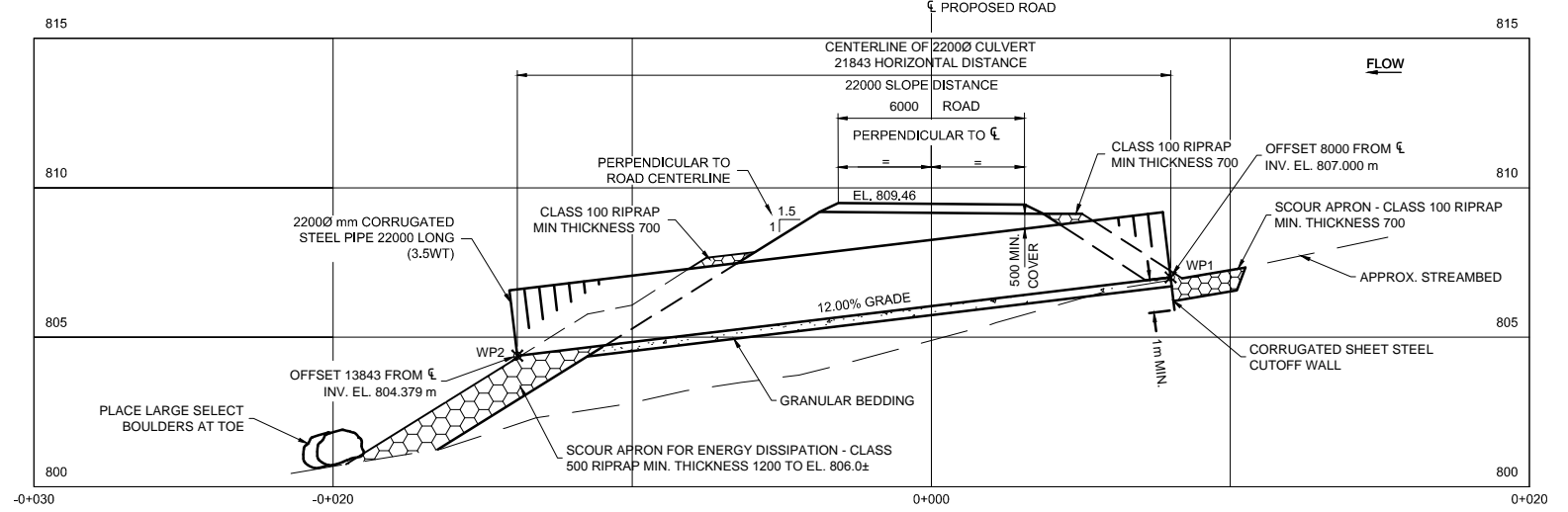
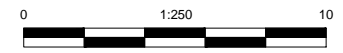


**PLAN**

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM



**CULVERT PROFILE**  
LOOKING UP-CHAINAGE



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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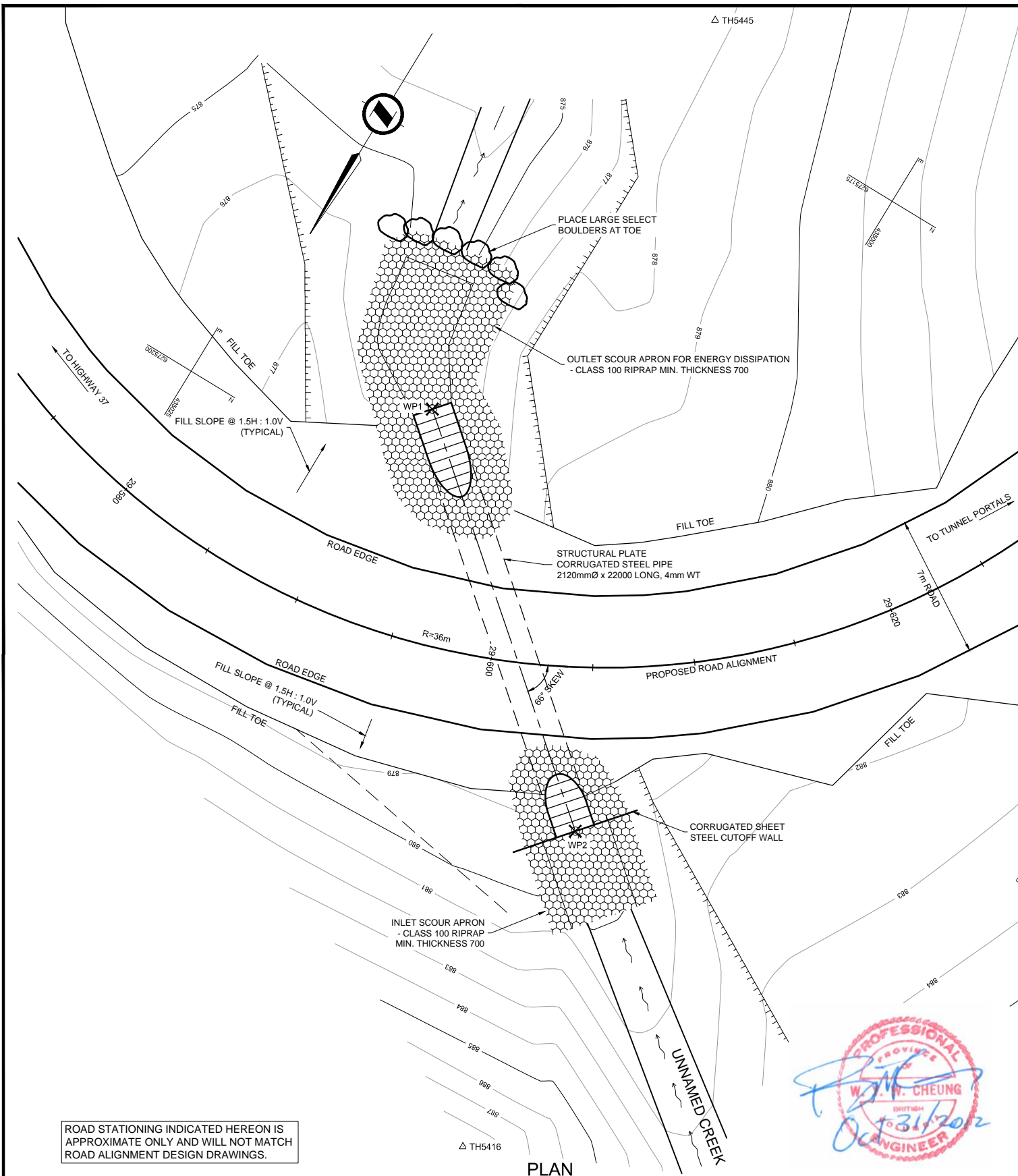
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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-01-13  
0 1:500 25  
UNLESS OTHERWISE NOTED

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R049) - Km 27.42±  
GENERAL ARRANGEMENT

Client Project No  
Client Drawing No  
MCSL Project No. 2341-01506-0  
Drawing No.  
**01506-249-03**  
Sheet 3 of 3 Revision A  
Destroy all prints bearing previous number

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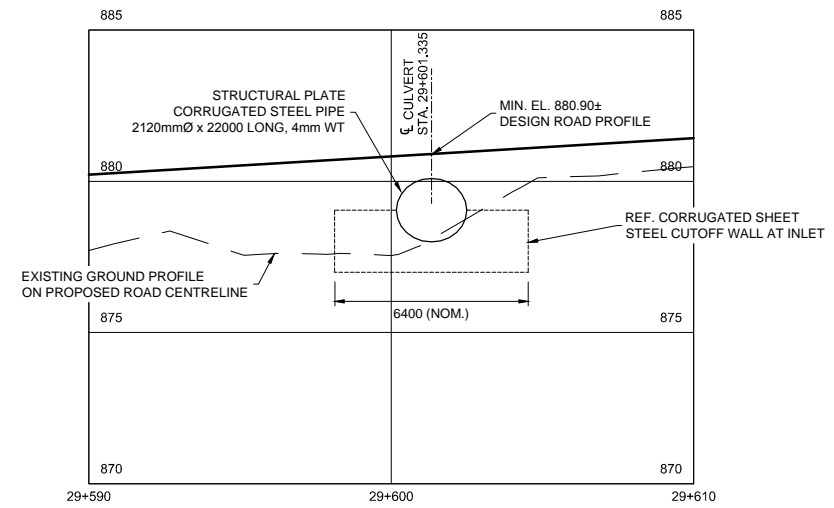


- NOTES**
- SITE LOCATION**  
LAT. N56-36-59 LONG. W130-03-33  
N 6275200 E 435000
  - HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 1.0 sq.km  
-AREA ABOVE TREETLINE APPROX. 0.3 sq.km  
-Q100 FLOW ESTIMATED AT 5.8cu.m/sec  
-BOTTOM CREEK APPROX. EL. 877.71m  
-ESTIMATED MAX. STREAM VELOCITY = 4.8 m/sec  
-ESTIMATED H.W.L. ELEVATION = 878.1m
  - STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.
  - FOR ADDITIONAL CONSTRUCTION DETAILS SEE DRAWING 1506-0-610 & 611.
  - ALTERNATELY USE 2000Ømm CSP - 3.5mm WT.

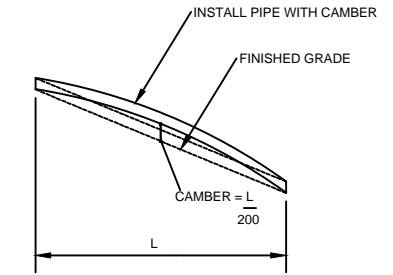
SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
TH5416	6275225.520	434993.833	889.024	---	---
TH5445	- B.S.	6275171.940	435012.010	877.694	56.579 161-15-38
WP1	6275195.009	435015.955	876.42	36.191	146-15-19
WP2	6275210.194	434997.805	879.04	16.417	168-14-09

\*NOMINAL INVERT ELEVATION

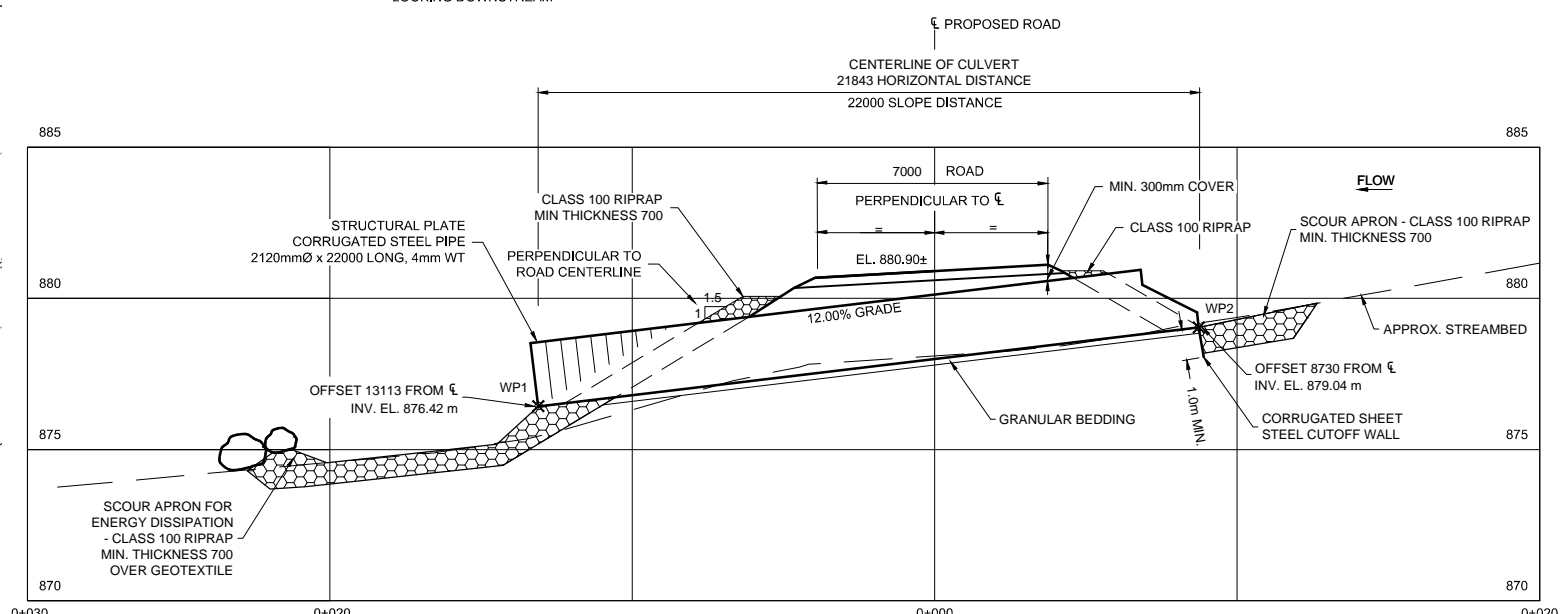
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**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM



**CULVERT CAMBER INSTALLATION**  
SCALE N.T.S.



**CENTRELINE CULVERT PROFILE**  
LOOKING UP-CHAINAGE

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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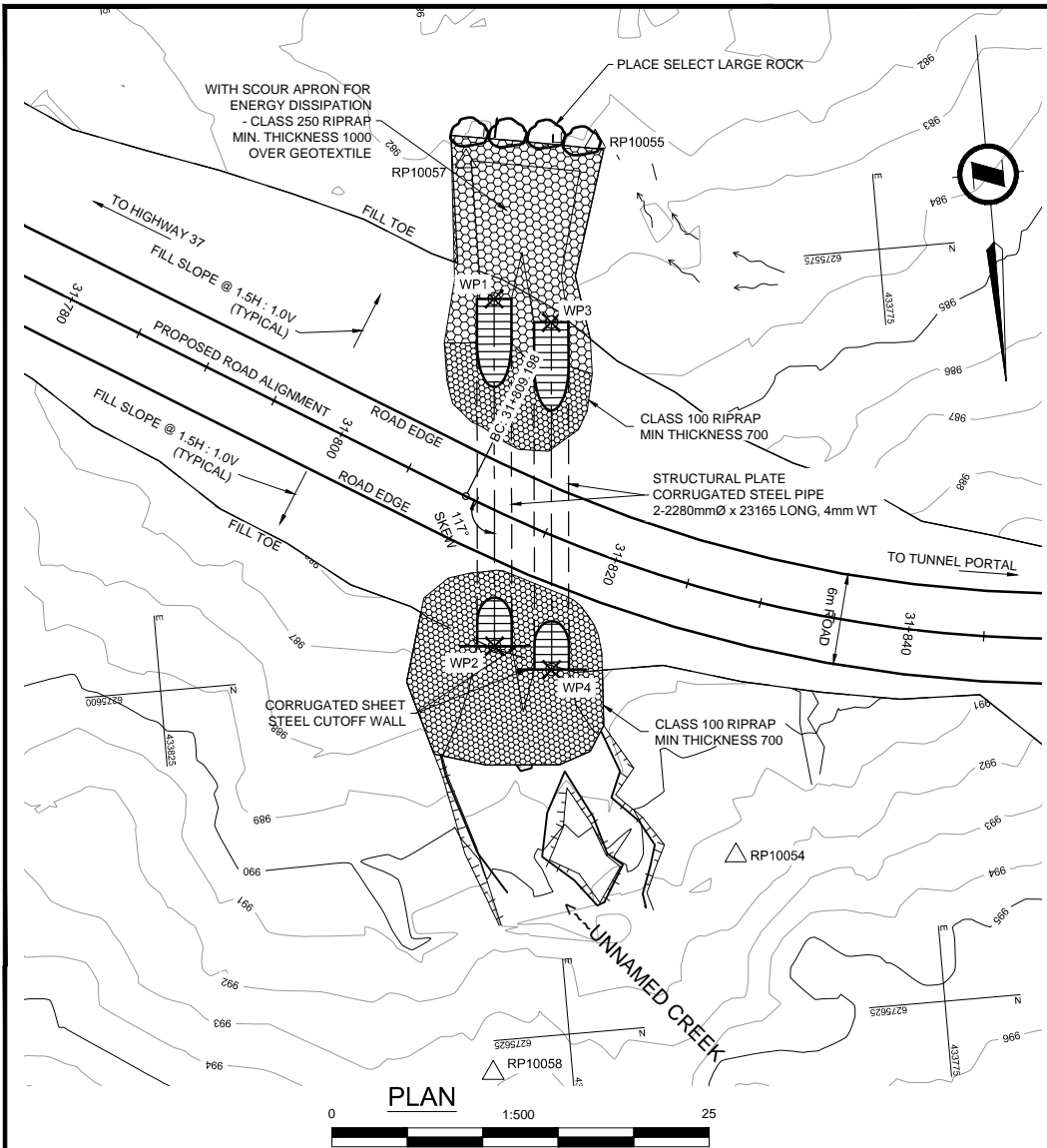
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Drawn: DMW Date: 12-08-15  
Scale: 0 1:250 10

Approved Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R053) - Km 29.6±  
GENERAL ARRANGEMENT

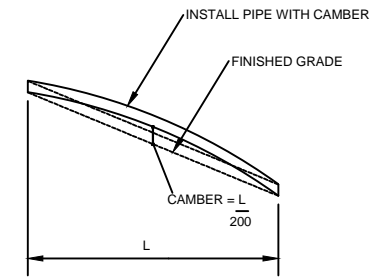
Client Project No.	
Client Drawing No.	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-253-03</b>
Sheet	3 of 3
Revision	A





**NOTES**

- SITE LOCATION  
LAT. N56-37-11 LONG. W130-04-44  
N 6275590 E 433800
- HYDROLOGY: (At Proposed Road Centerline)  
- DRAINAGE AREA APPROX 2.94 sq.km  
- Q100 FLOW ESTIMATED AT 13.4 cu.m/sec  
- BOTTOM CREEK APPROX. EL. 984.35m  
- ESTIMATED MAX. STREAM VELOCITY = 4.6 m/sec  
- ESTIMATED H.W.L. ELEVATION = 985.0m
- STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.
- FOR ADDITIONAL CONSTRUCTION DETAILS SEE DRAWING 1506-0-610 & 611.
- ALTERNATELY USE 2 - 2200mm CSP - 3.5mm WT.



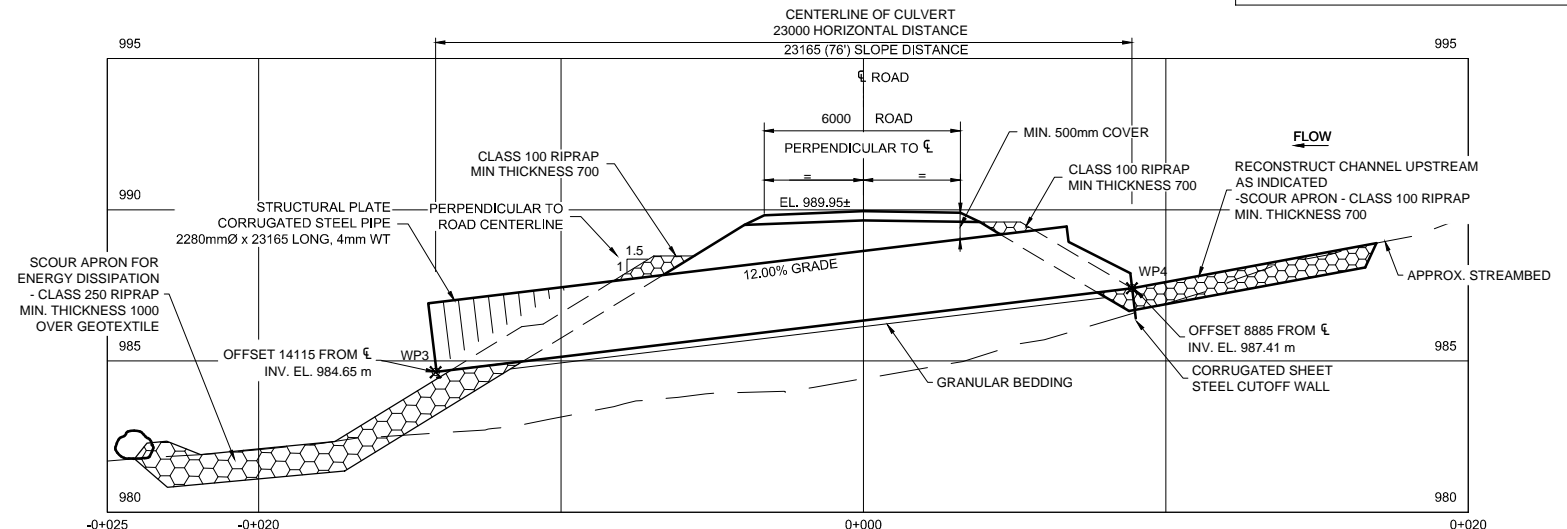
**CULVERT CAMBER INSTALLATION**

SCALE N.T.S.

SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP10057	6275566.815	433801.763	982.415	---	---
RP10054 - B.S.	6275614.175	433787.962	991.851	49.330	343-45-13
RP10058	6275627.136	433805.237	994.559	60.421	3-17-46
RP10055	6275566.278	433793.139	982.344	8.641	266-26-14
WP1	6275576.050	433800.708	984.65	9.295	353-28-44
WP2	6275598.965	433802.685	987.41	32.164	1-38-32
WP3	6275577.928	433797.076	984.65	12.061	337-07-43
WP4	6275600.843	433799.053	987.41	34.136	355-26-46

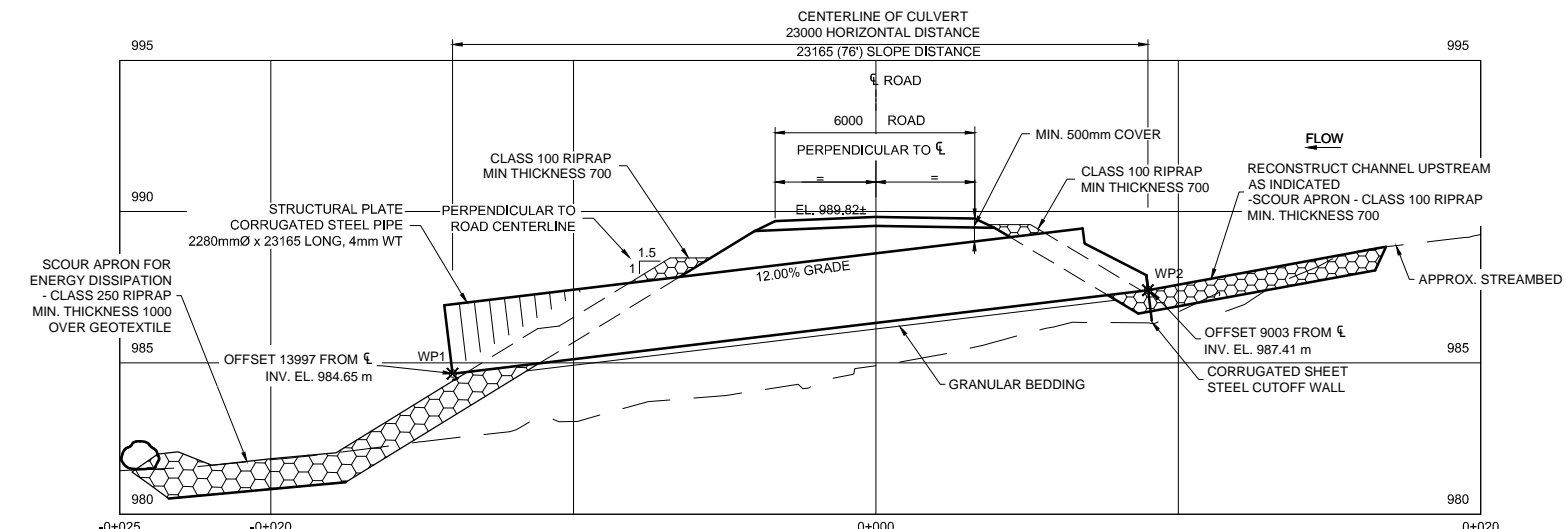
\*NOMINAL INVERT ELEVATION

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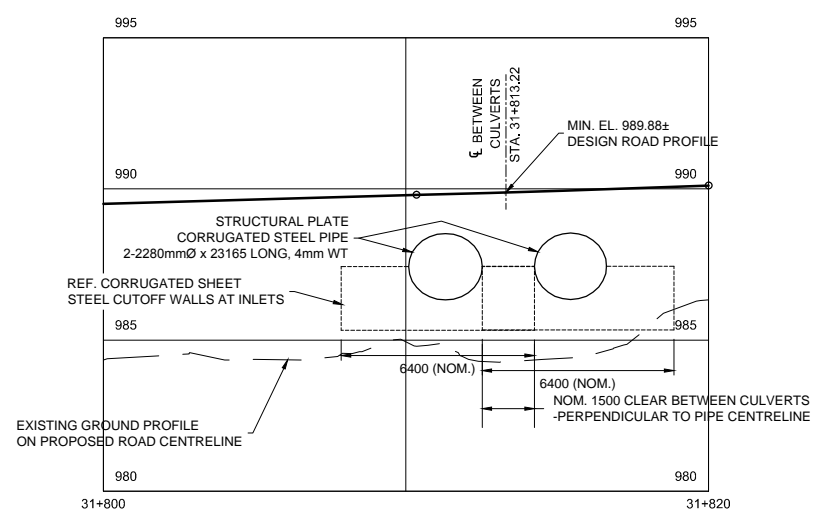
**CENTRELINE CULVERT PROFILE - HIGH CHAINAGE**

LOOKING UP-CHAINAGE



**CENTRELINE CULVERT PROFILE - LOW CHAINAGE**

LOOKING UP-CHAINAGE



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**

LOOKING DOWNSTREAM



ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.

No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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Designed: RAO Checked: WWC QC: RWP  
 Drawn: DMW Date: 12-09-05  
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 UNLESS OTHERWISE NOTED

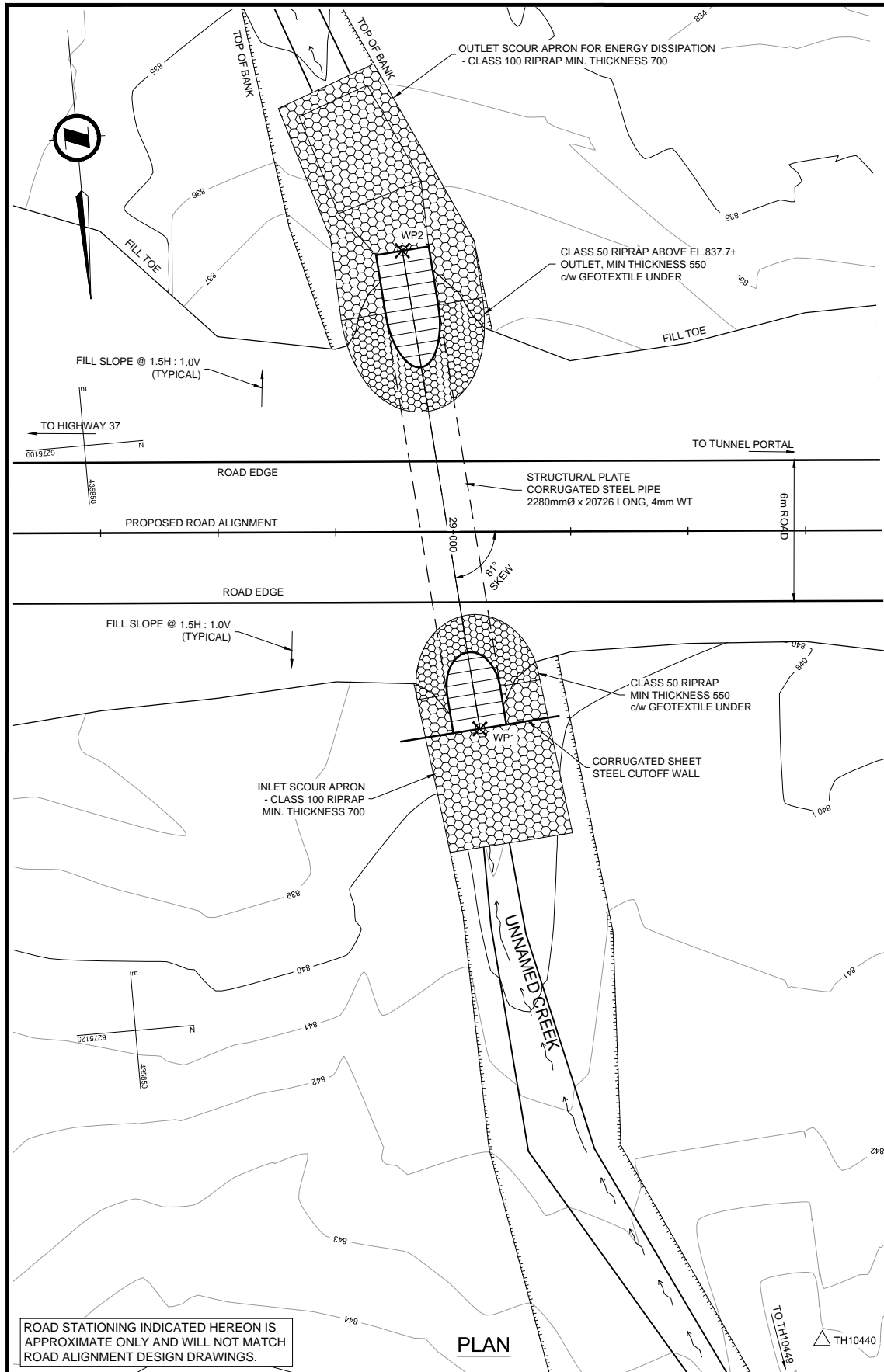
Approved Sealed

**SEABRIDGE GOLD INC.**  
 PROPOSED MINE ACCESS - TREATY ROUTE  
 UNNAMED CREEK (R057) - Km 31.82±  
 GENERAL ARRANGEMENT

Client Project No.  
 Client Drawing No.  
 MCSL Project No. 2341-01506-0  
 Drawing No. **01506-257-03**  
 Sheet 3 of 3 Revision A

Destroy all prints bearing previous number

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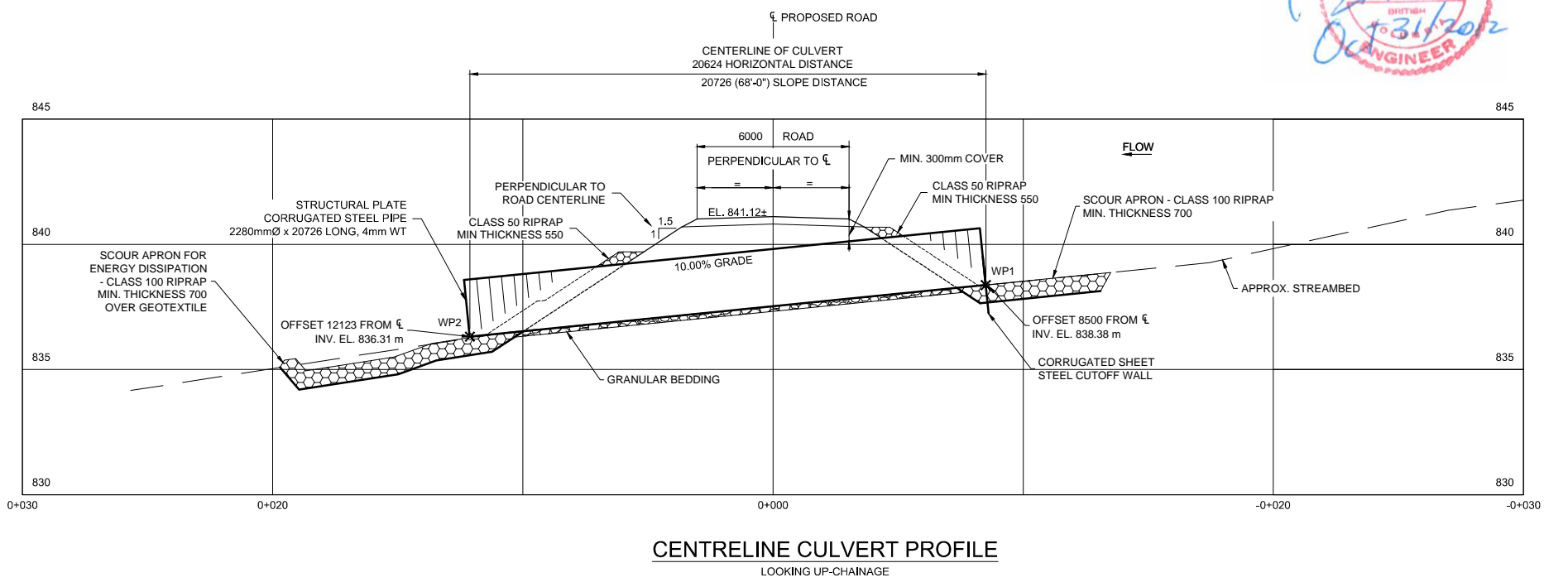
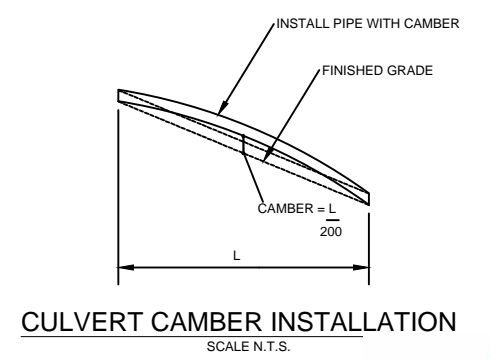
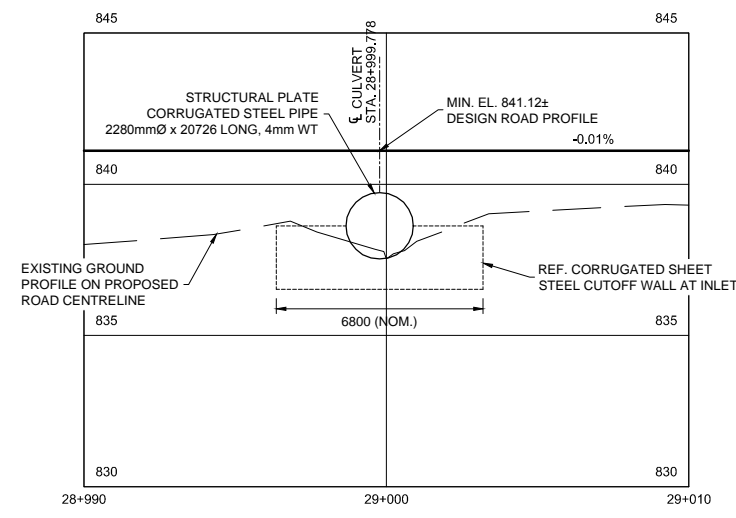


- NOTES**
- SITE LOCATION  
LAT. N56-36-57 LONG. W130-02-44  
N 6275110 E 435830
  - HYDROLOGY: (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 1.44 sq.km  
-Q100 FLOW ESTIMATED AT 7.8 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 837.53 m  
-ESTIMATED MAX. STREAM VELOCITY = 3.8 m/sec  
-ESTIMATED H.W.L. ELEVATION = 838.1 m
  - STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.
  - FOR ADDITIONAL CONSTRUCTION DETAILS SEE DRAWING 1506-0-610 & 611.
  - ALTERNATELY USE 2200mm CSP - 3.5mm WT.

SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
TH10440	6275140.700	435822.036	844.384	---	---
TH10469 - B.S.	6275157.503	435820.828	847.220	16.846	355-53-17
WP1	6275113.478	435834.282	838.38	29.848	155-46-39
WP2	6275092.912	435835.793	836.31	49.731	163-56-28

\*NOMINAL INVERT ELEVATION

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No.	Date	Revision	Dr.	CK'd
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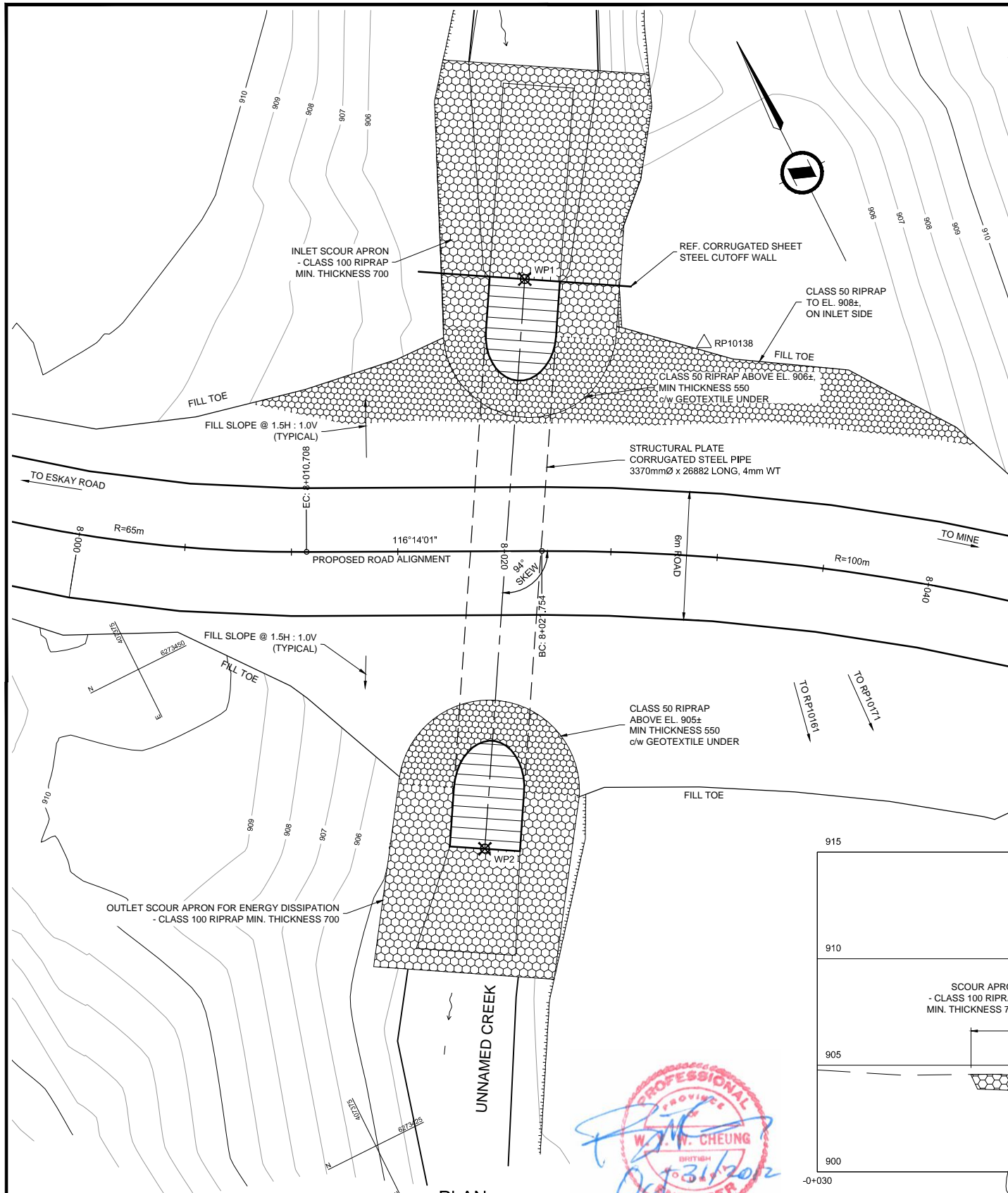
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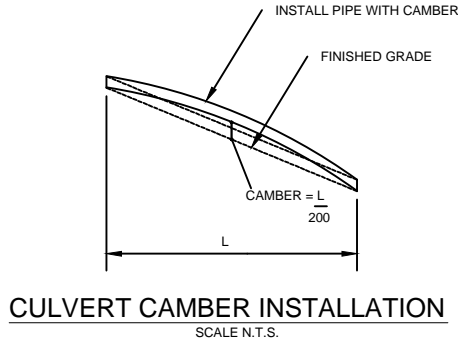
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Drawn: DMW Date: 12-08-31  
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**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R058) - Km 29.0±  
GENERAL ARRANGEMENT

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	01506-258-03
Sheet	3 of 3
Revision	A



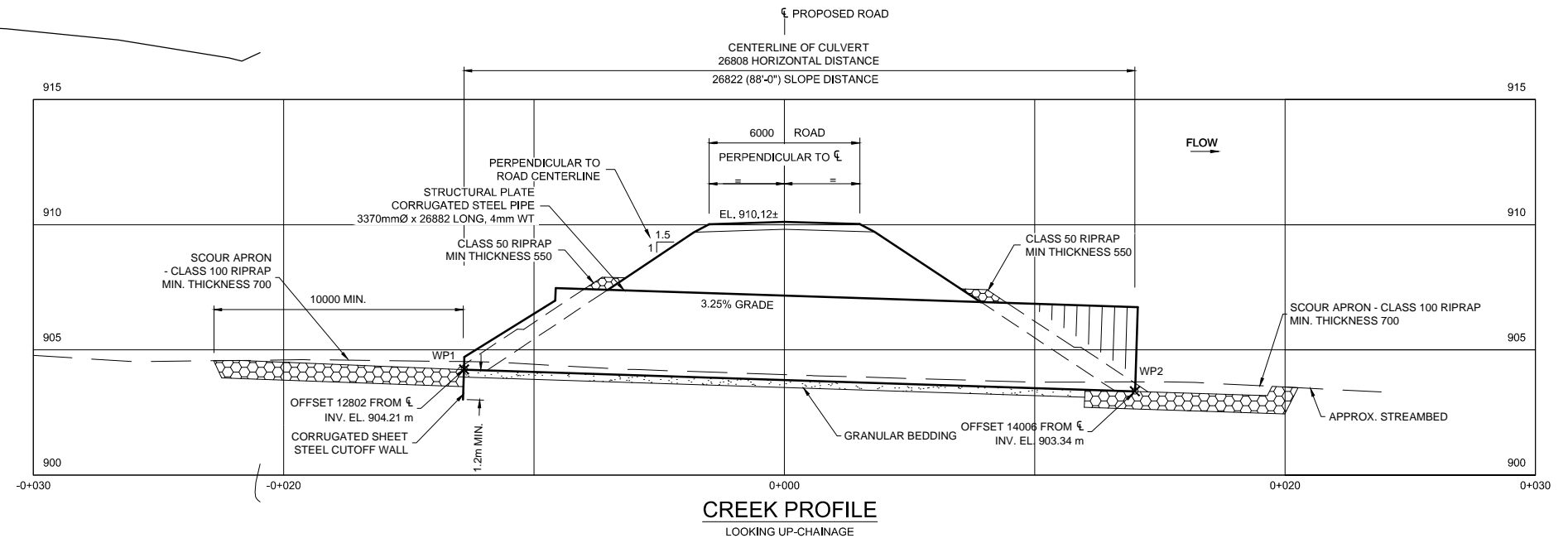
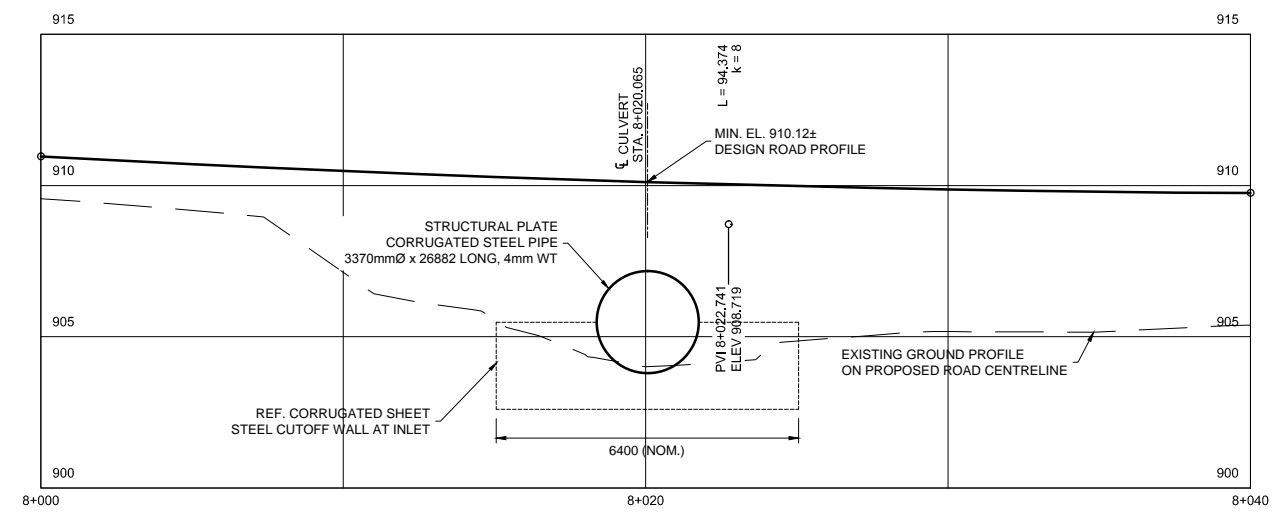
- NOTES**
- LAT. N56-35-46 LONG. W130-30-29 N 6273450 E 407400
  - HYDROLOGY: (At Proposed Road Centerline)
    - DRAINAGE AREA APPROX 4.36 sq.km
    - Q100 FLOW ESTIMATED AT 21.5 cu.m/sec
    - BOTTOM CREEK APPROX. EL. 904.00 m
    - ESTIMATED MAX. STREAM VELOCITY = 3.4 m/sec
    - ESTIMATED H.W.L. ELEVATION = 905.2 m
  - STREAM RIPARIAN CLASS S5 (NO FISH) PER RESCAN.
  - FOR ADDITIONAL CONSTRUCTION DETAILS SEE DRAWING 1506-0-610 & 611.



SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP10138	6273451.846	407405.600	905.684	---	---
RP10161 - B.S.	6273389.853	407392.880	904.297	63.285	191-35-45
RP10171	6273371.567	407401.611	903.937	80.378	182-50-41
WP1	6273458.300	407399.406	904.21	8.945	316-10-37
WP2	6273435.201	407385.801	903.34	25.867	229-56-52

\*NOMINAL INVERT ELEVATION

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE APPROPRIATE CODES AND STANDARDS TO SUSTAIN DEAD LOADS, AND THE GIVEN LIVE LOAD WHEN COMPLETE. IT HAS BEEN DESIGNED TO SUSTAIN REASONABLE LOADS DURING CONSTRUCTION BUT MUST BE CHECKED AGAINST THE LOADINGS IMPOSED BY THE CONTRACTOR'S SPECIFIC METHOD OF CONSTRUCTION. IN ACCORDANCE WITH THE BYLAWS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF B.C. CLAUSE 14 (b) (4), FIELD REVIEW OF PROJECTS DURING CONSTRUCTION IS A REQUIREMENT. FAILURE TO RETAIN THE ENGINEER, OR HIS CHOICE OF THIRD PARTY, TO REVIEW THE CONTRACTOR'S PROCEDURES AND MONITOR CONSTRUCTION WILL RESULT IN McELHANNEY CONSULTING SERVICES LTD. BEING UNABLE TO CERTIFY THE CONSTRUCTED WORKS.



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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1633 First Avenue PH (250) 561-2229  
Prince George B.C. V2L 2Y8 FAX (250) 563-1941  
www.mcelhanney.com Toll Free (866) 451-2229

Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-08-23

0 1:250 10

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - COULTER ROUTE  
UNNAMED CREEK (C059) - Km 8.0±  
GENERAL ARRANGEMENT

Client Project No.  
Client Drawing No.  
MCSL Project No. 2341-01506-0  
Drawing No.  
**01506-259-03**  
Sheet 3 of 3 Revision A

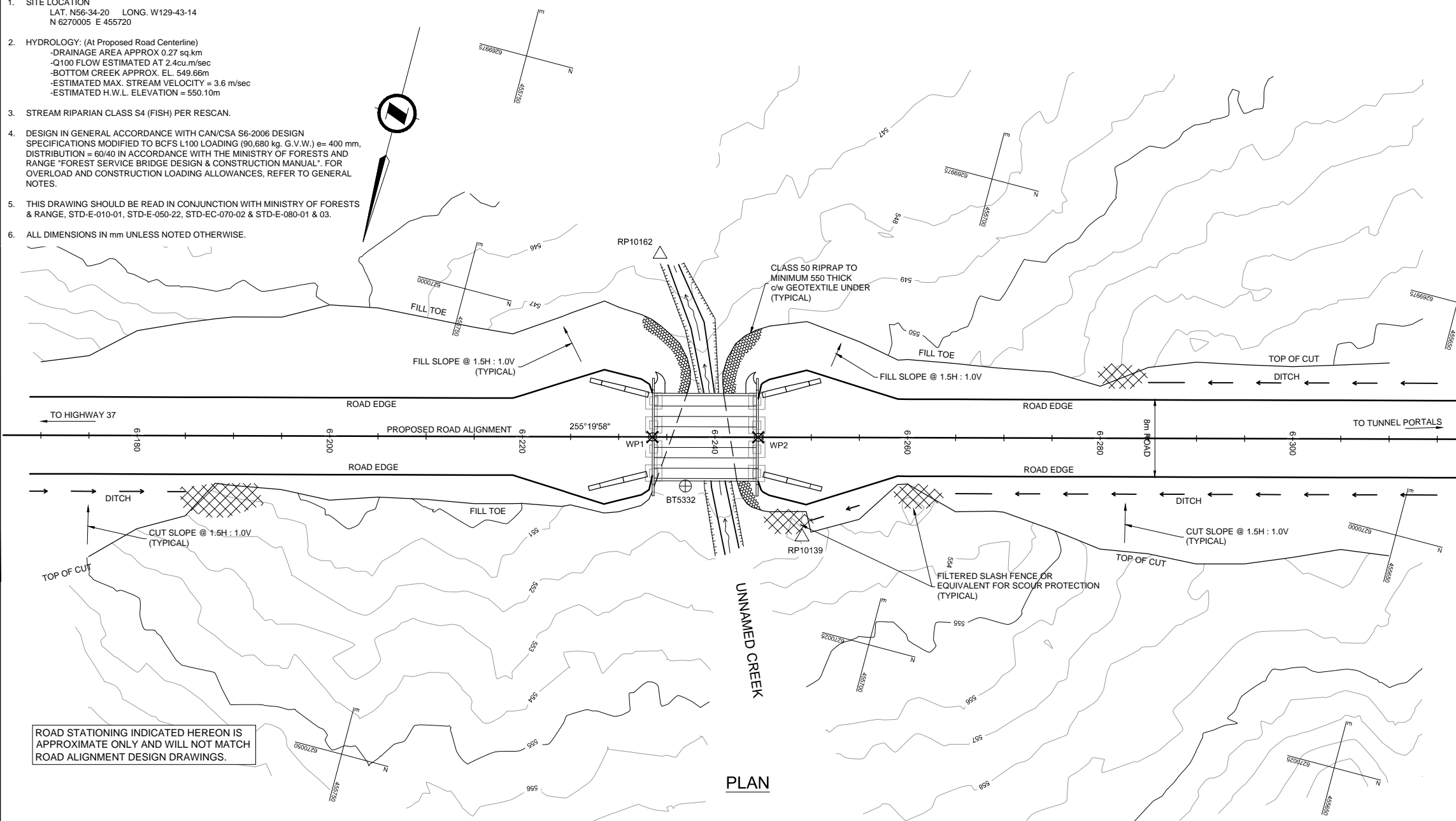
**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-34-20 LONG. W129-43-14  
N 6270005 E 455720
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 0.27 sq.km  
-Q100 FLOW ESTIMATED AT 2.4cu.m/sec  
-BOTTOM CREEK APPROX. EL. 549.66m  
-ESTIMATED MAX. STREAM VELOCITY = 3.6 m/sec  
-ESTIMATED H.W.L. ELEVATION = 550.10m
- STREAM RIPARIAN CLASS S4 (FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH MINISTRY OF FORESTS & RANGE, STD-E-010-01, STD-E-050-22, STD-EC-070-02 & STD-E-080-01 & 03.**
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.**

SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP10162	6269991.359	455731.321	547.211	---	---
RP10139 - B.S.	6270015.953	455709.563	553.139	32.837	318-30-03
BT5332	6270013.954	455722.623	552.405	24.211	338-56-44
WP1	6270009.905	455727.242	552.21	18.989	347-35-43
WP2	6270007.121	455716.605	552.54	21.564	316-57-58

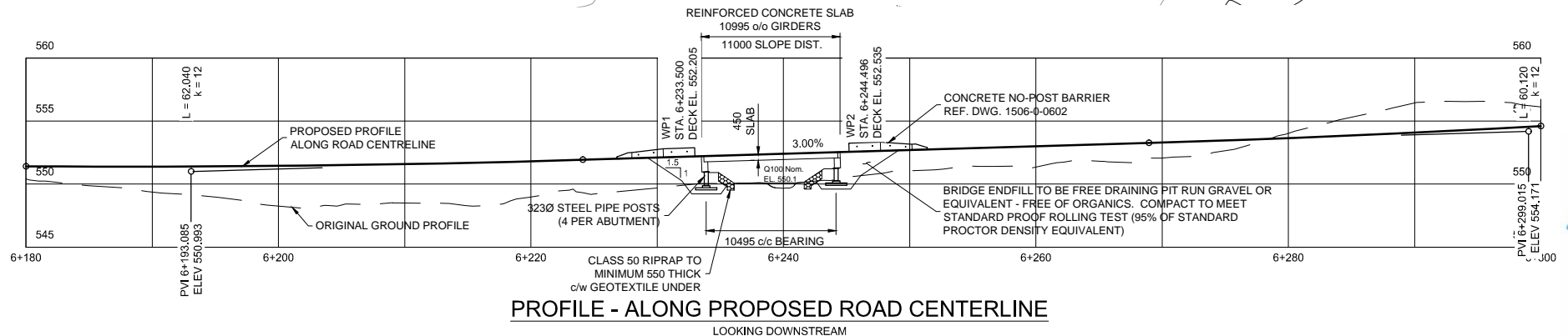
\*NOMINAL DECK ELEVATION

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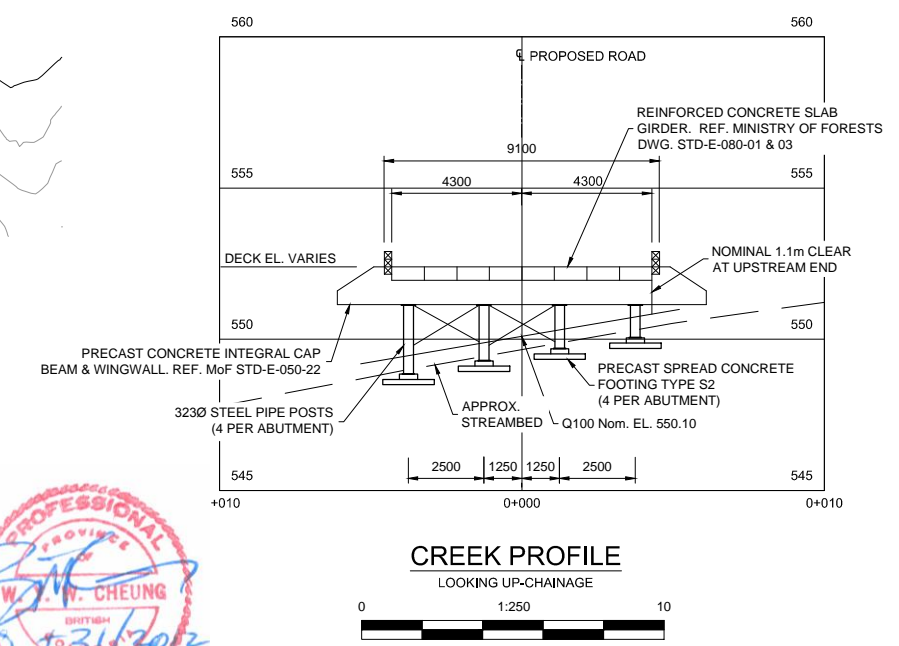


ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.

**PLAN**



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM



**CREEK PROFILE**  
LOOKING UP-CHAINAGE



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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www.mcelhanney.com Toll Free (866) 451-2229

Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-08-27

Scale: 0 1:500 25  
UNLESS OTHERWISE NOTED

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R061) - Km 6.2±  
GENERAL ARRANGEMENT

Client Project No. \_\_\_\_\_  
Client Drawing No. \_\_\_\_\_  
MCSL Project No. 2341-01506-0  
Drawing No. **01506-261-03**  
Sheet 3 of 0 Revision A

H:\PROJ\2341\1506-159A\1506 Seabridge KSM Project\200.0 Crossings\261.0 Site R061 - Unnamed Creek\261.10 Drawings\Site R061 Working.dwg, 11/22/2012, 3:44:37 PM

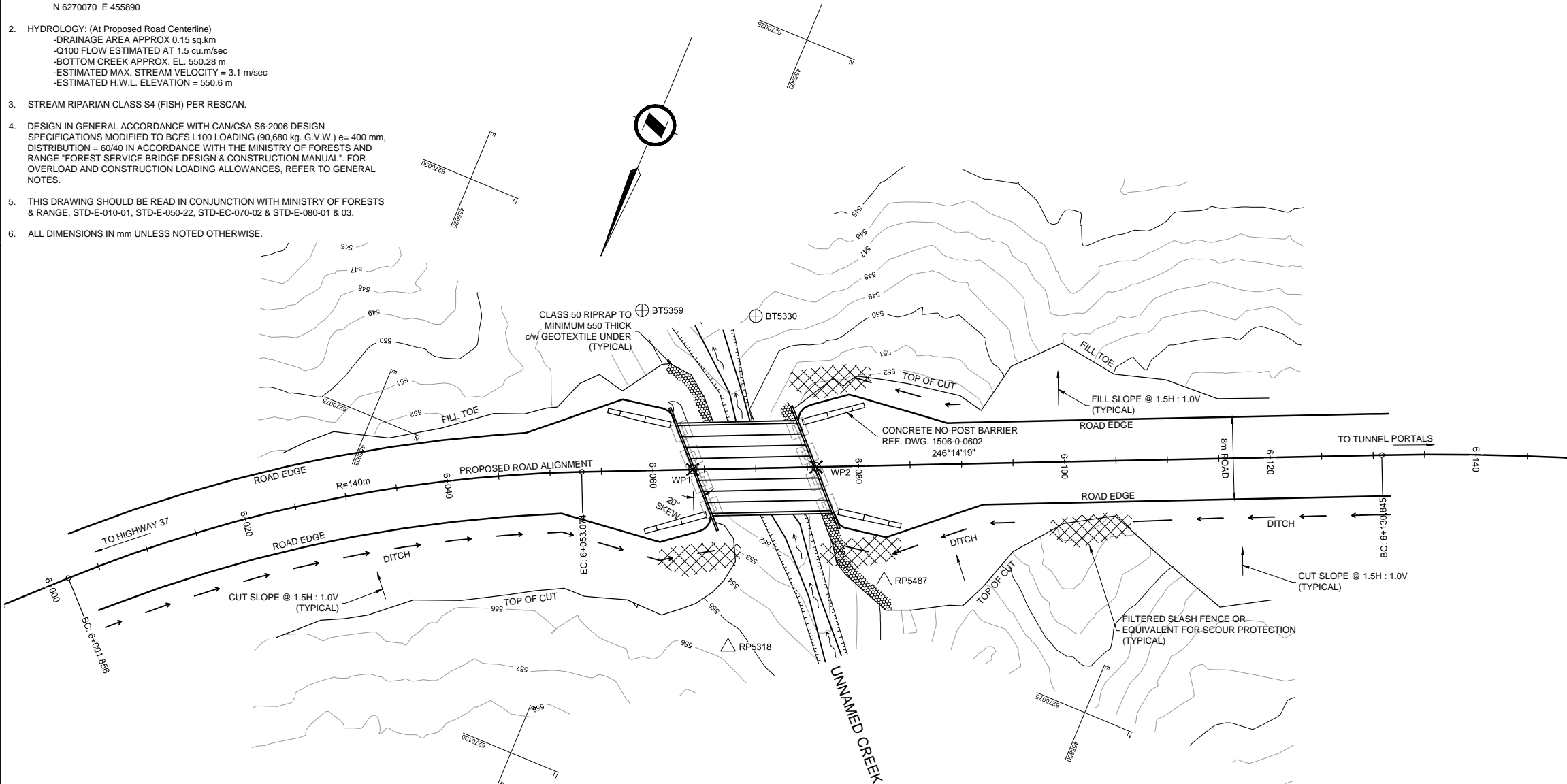
**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-34-322 LONG. W129-43-05  
N 6270070 E 455890
- HYDROLOGY: (At Proposed Road Centerline)**  
-DRAINAGE AREA APPROX 0.15 sq.km  
-Q100 FLOW ESTIMATED AT 1.5 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 550.28 m  
-ESTIMATED MAX. STREAM VELOCITY = 3.1 m/sec  
-ESTIMATED H.W.L. ELEVATION = 550.6 m
- STREAM RIPARIAN CLASS S4 (FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH MINISTRY OF FORESTS & RANGE, STD-E-010-01, STD-E-050-22, STD-EC-070-02 & STD-E-080-01 & 03.**
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.**

SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
RP5318	6270082.393	455884.445	554.713	---	---
RP5487	- B.S.	6270070.640	455872.913	555.838	16.465 224-27-18
BT5359	6270055.405	455904.711	552.516	33.750	143-05-48
BT5330	6270051.696	455894.291	550.621	32.238	162-12-58
WP1	6270067.803	455894.233	553.000	17.569	146-08-31
WP2	6270062.968	455883.251	553.000	19.462	183-31-05

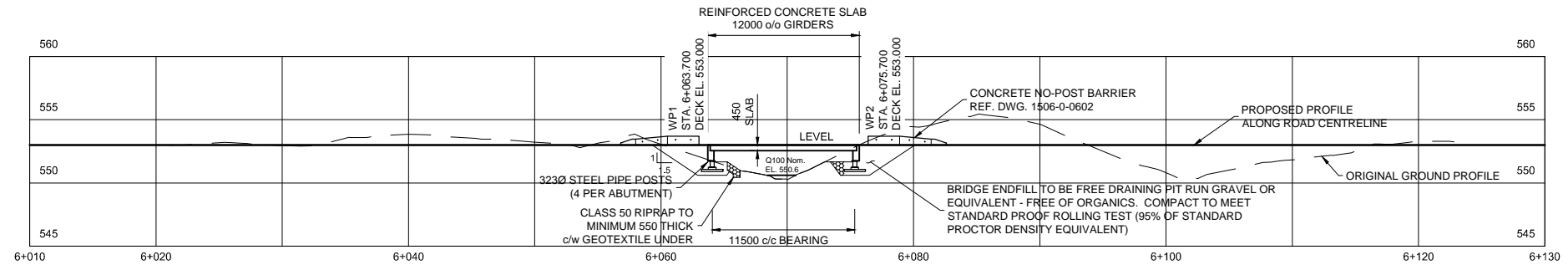
\*NOMINAL DECK ELEVATION

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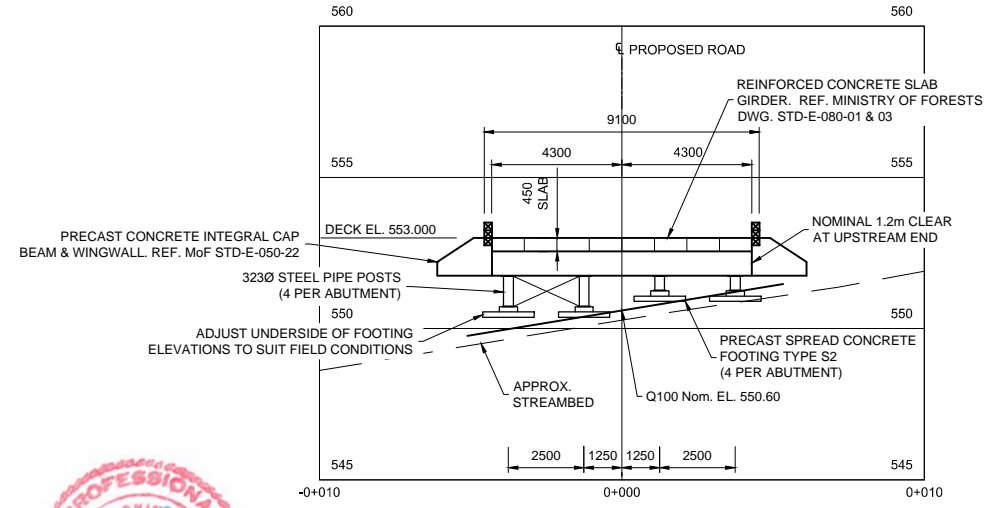


ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.

**PLAN**



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**  
LOOKING DOWNSTREAM



**CREEK PROFILE**  
LOOKING UP-CHAINAGE



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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www.mcelhanney.com Toll Free (866) 451-2229

Designed: RAO	Checked: WWC	QC: RWP
Drawn: DMW	Date: 12-08-27	

UNLESS OTHERWISE NOTED

Approved Sealed

**SEABRIDGE GOLD INC.**  
PROPOSED MINE ACCESS - TREATY ROUTE  
UNNAMED CREEK (R062) - Km 6.1±  
GENERAL ARRANGEMENT

Client Project No.	
Client Drawing No.	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-262-03</b>
Sheet	3 of 0
Revision	A

Destroy all prints bearing previous number

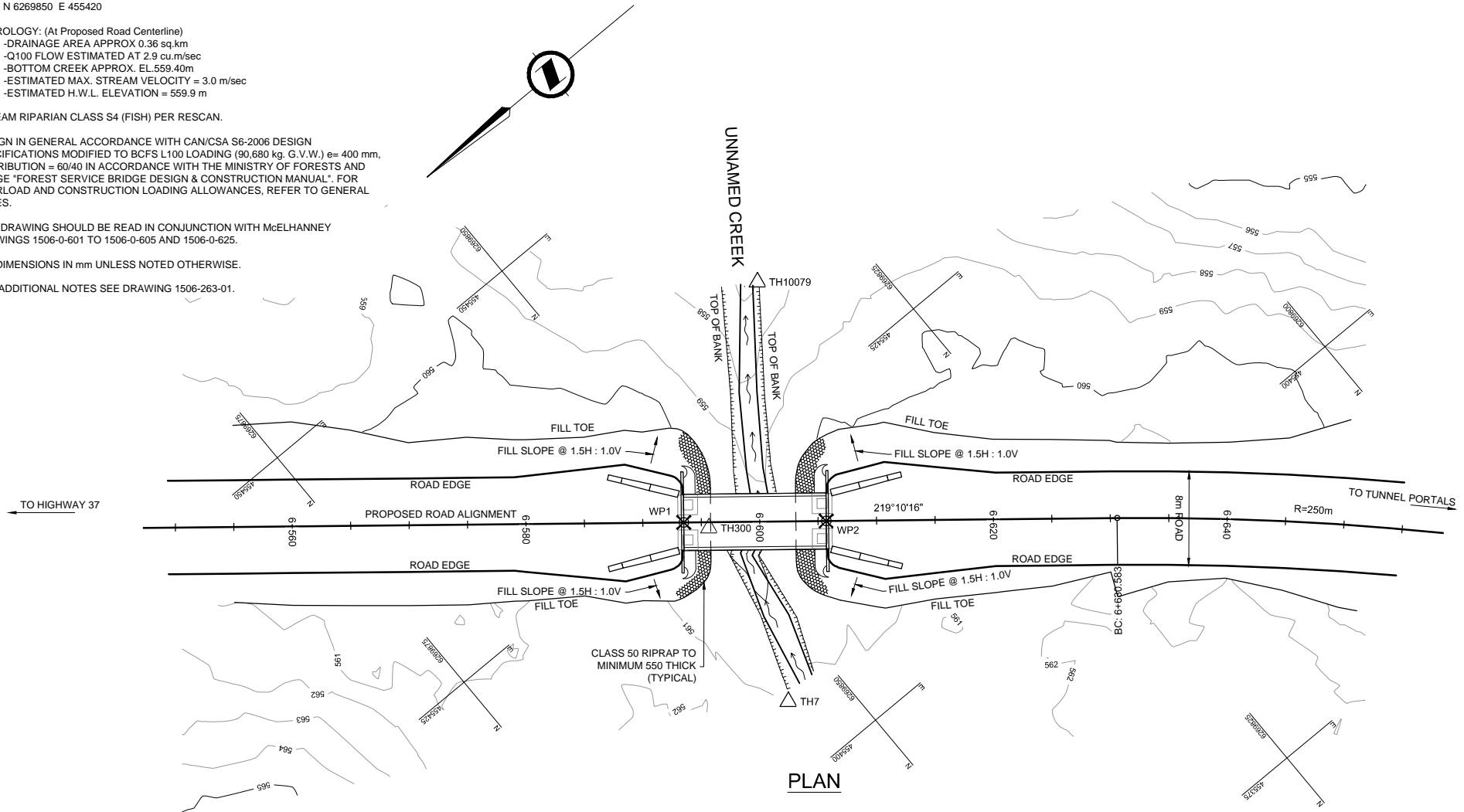
**DESIGN NOTES/SPECIFICATIONS**

- SITE LOCATION**  
LAT. N56-34-15 LONG. W129-43-32  
N 6269850 E 455420
- HYDROLOGY:** (At Proposed Road Centerline)  
-DRAINAGE AREA APPROX 0.36 sq.km  
-Q100 FLOW ESTIMATED AT 2.9 cu.m/sec  
-BOTTOM CREEK APPROX. EL.559.40m  
-ESTIMATED MAX. STREAM VELOCITY = 3.0 m/sec  
-ESTIMATED H.W.L. ELEVATION = 559.9 m
- STREAM RIPARIAN CLASS S4 (FISH) PER RESCAN.**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.) e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH McELHANNEY DRAWINGS 1506-0-601 TO 1506-0-605 AND 1506-0-625.**
- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.**
- FOR ADDITIONAL NOTES SEE DRAWING 1506-263-01.**

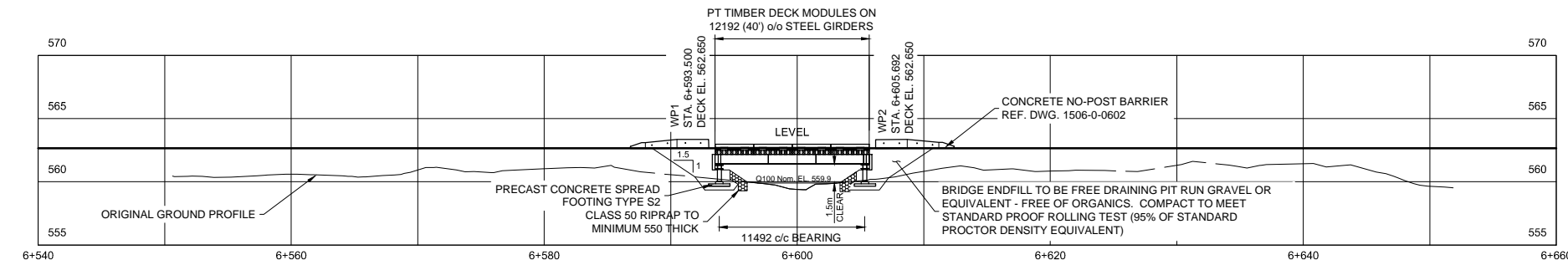
SURVEY CONTROL					
Point	Northing	Easting	Elevation	H.D.	Bearing
TH10079	6269833.793	455435.299	557.763	---	---
TH7	- B.S.	6269854.716	455405.987	561.531	305-31-07
TH300	6269850.451	455421.748	560.146	21.474	320-52-09
WP1	6269851.800	455423.507	562.650	21.524	326-46-44
WP2	6269842.348	455415.806	562.650	21.288	293-41-35

\*NOMINAL DECK ELEVATION

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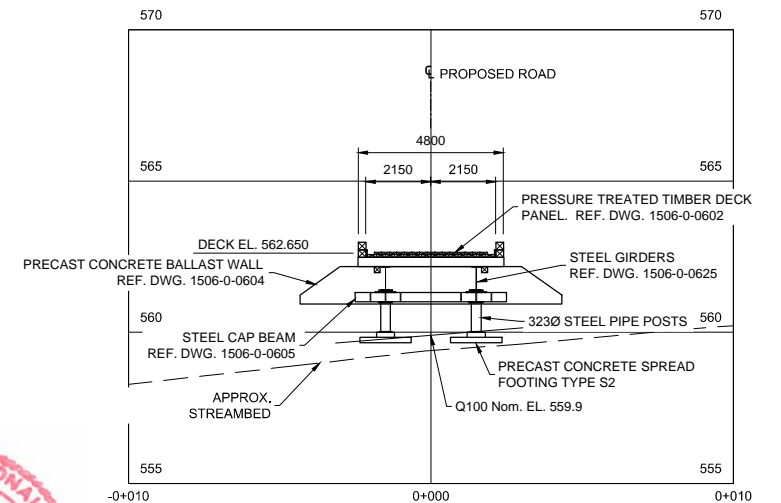
**PLAN**



**PROFILE - ALONG PROPOSED ROAD CENTERLINE**

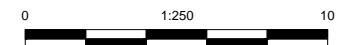
LOOKING DOWNSTREAM

ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.



**CREEK PROFILE**

LOOKING UP-CHANNAGE



No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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Designed: RAO Checked: WWC QC: RWP  
 Drawn: DMW Date: 12-08-24  
 0 1:500 25  
 UNLESS NOTED OTHERWISE

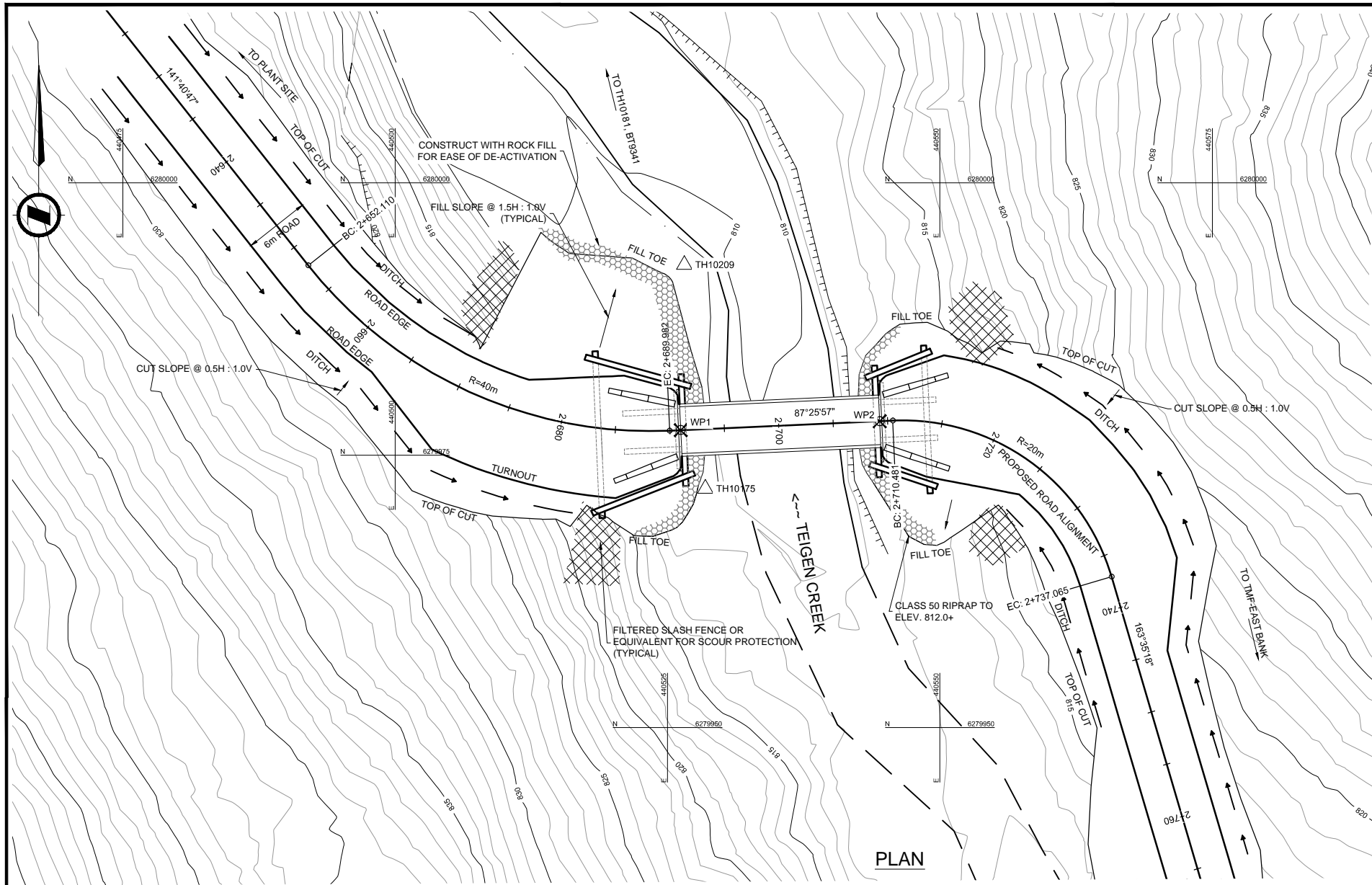
Approved Sealed

**SEABRIDGE GOLD INC.**  
**PROPOSED MINE ACCESS - TREATY ROUTE**  
**UNNAMED CREEK (R063) - Km 6.6±**  
**GENERAL ARRANGEMENT**

Client Project No	
Client Drawing No	
MCSL Project No.	2341-01506-0
Drawing No.	<b>01506-263-03</b>
Sheet	3 of 3
Revision	A

Destroy all prints bearing previous number

H:\PROJ\2341\1506-159A\1506 Stabridge KSM Project\200.0 Crossings\263.0 Site R063 - Unnamed Creek\263.0 Drawings\Site R063 Working.dwg, 11/22/2012, 3:53:02 PM



**NOTES**

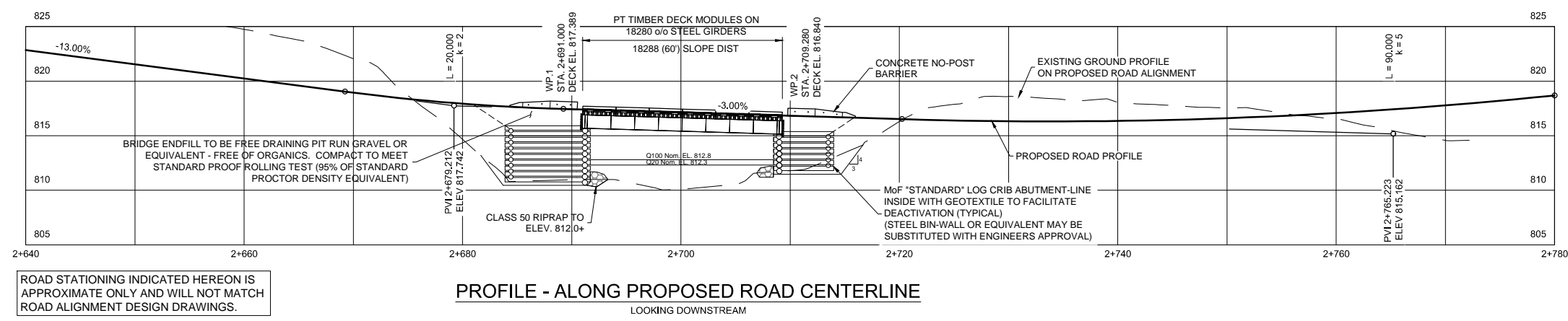
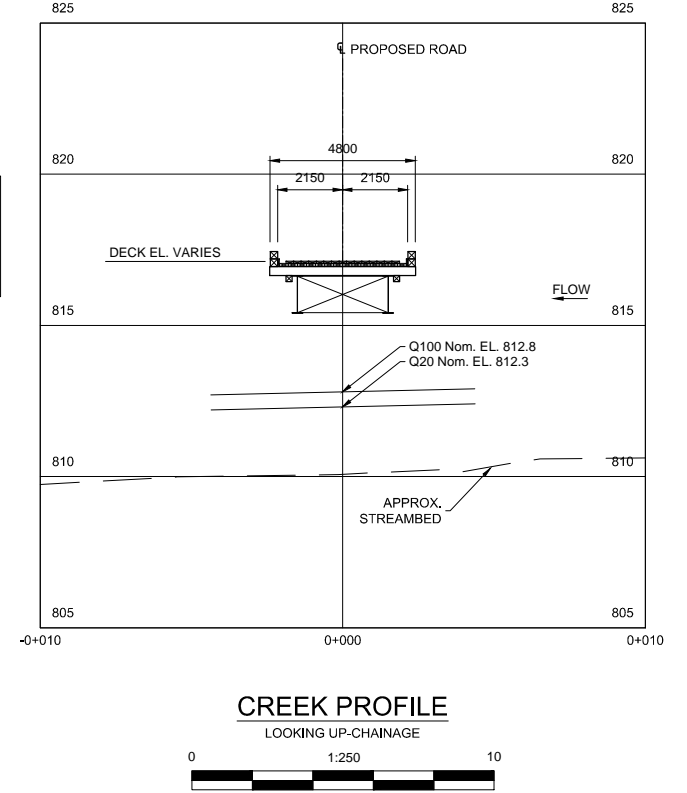
- SITE LOCATION**  
LAT. N56-39-37 LONG. W129-58-13  
N 6280000.0 E 440530.0
- HYDROLOGY: (At Proposed Road Centerline)**  
-DRAINAGE AREA APPROX 39.1 sq.km  
-Q100 FLOW ESTIMATED AT 95.0 cu.m/sec  
-Q20 FLOW ESTIMATED AT 70.0 cu.m/sec  
-BOTTOM CREEK APPROX. EL. 809.66 m  
-ESTIMATED MAX. STREAM VELOCITY = 3.3 m/sec  
-ESTIMATED H.W.L. ELEVATION = 812.8 m
- STREAM RIPARIAN CLASS S5 (NO FISH).**
- DESIGN IN GENERAL ACCORDANCE WITH CAN/CSA S6-2006 DESIGN SPECIFICATIONS MODIFIED TO BCFS L100 LOADING (90,680 kg. G.V.W.), e= 400 mm, DISTRIBUTION = 60/40 IN ACCORDANCE WITH THE MINISTRY OF FORESTS AND RANGE "FOREST SERVICE BRIDGE DESIGN & CONSTRUCTION MANUAL". FOR OVERLOAD AND CONSTRUCTION LOADING ALLOWANCES, REFER TO GENERAL NOTES.**

SURVEY CONTROL				
Point	Northing	Easting	Elevation	H.D. Bearing
TH10209	6279992.487	440526.531	810.569	---
TH10175 - B.S.	6279971.937	440528.460	811.545	20.640 174-38-07
TH10181	6280022.719	440515.991	811.058	32.016 340-46-49
BT9341	6280023.268	440514.906	812.372	32.903 339-18-40
WP1	6279977.301	440526.209	817.389	15.190 181-12-49
WP2	6279978.119	440544.47	816.840	22.984 128-41-25

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THIS ROAD/STRUCTURE IS INTENDED TO PROVIDE TEMPORARY ACCESS UNTIL SUCH TIME AS THE PERMANENT ACCESS ROAD CAN BE ROUTED OVER THE NORTH SEEPAGE DAM.



ROAD STATIONING INDICATED HEREON IS APPROXIMATE ONLY AND WILL NOT MATCH ROAD ALIGNMENT DESIGN DRAWINGS.

No.	Date	Revision	Dr.	CK'd
A	OCT. 2012	ISSUED FOR PERMITTING		

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Designed: RAO Checked: WWC QC: RWP  
Drawn: DMW Date: 12-08-14  
0 1:500 25

Approved Sealed

**SEABRIDGE GOLD INC.**  
TEMPORARY TMF SERVICE ROAD (011a)  
SOUTH TEIGEN CREEK (T065) - Km 2.7±  
GENERAL ARRANGEMENT

Client Project No.	
Client Drawing No.	
MCSL Project No.	2341-01506-0
Drawing No.	01506-265-03
Sheet	0 of 0
Revision	A