DRAFT
Conceptual Plans

Volume 1 of 1

SR 169 & SR 509 **MP 8.27**
UNT TO GINDER CREEK
FISH PASSAGE - WDFW ID 997693
SR 169 & SR 509 **MP 8.29**
GINDER CREEK
FISH PASSAGE - WDFW ID 997694

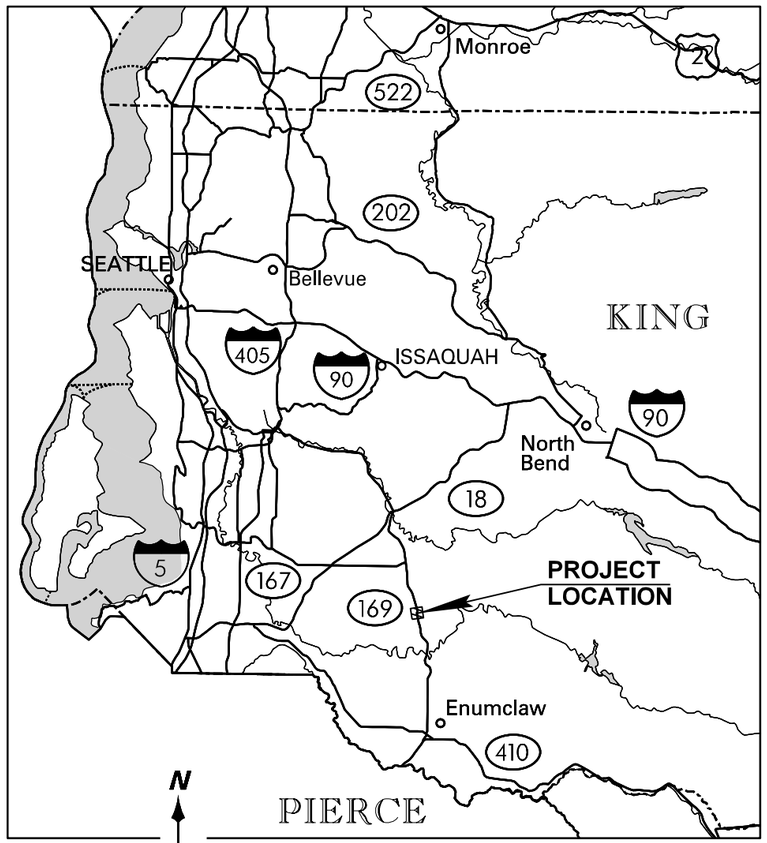
CITY OF BLACK DIAMOND,
WASHINGTON

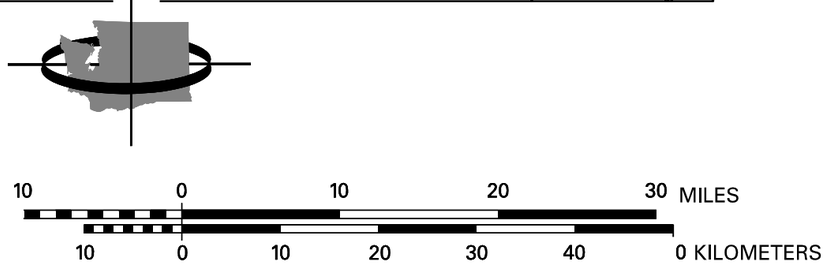
Washington State
Department of Transportation

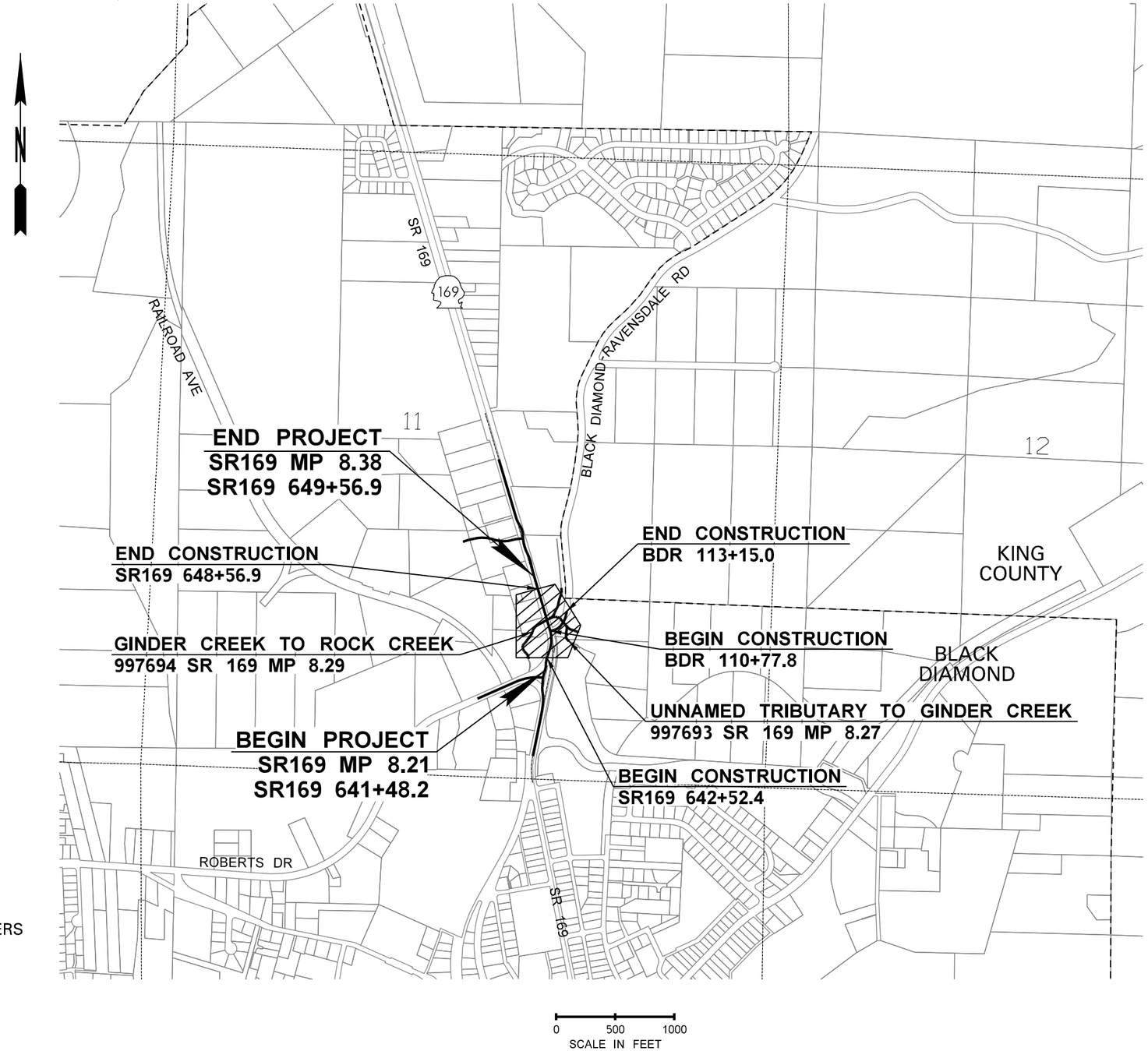
INDEX

SHEET NO.	PLAN REFERENCE NO.	TITLE
1	IN1	INDEX
2	VM1	VICINITY MAP
3	RS1	ROADWAY SECTIONS
4	AL1	ALIGNMENT PLAN
5	AL2	ALIGNMENT PLAN
6	AL3	CREEK ALIGNMENT PLAN
7	AL4	PROPOSED EASEMENT PLAN
8 - 10	EU1 - EU3	EXISTING UTILITIES
11 - 12	RP1 - RP2	ROADWAY PROFILES
13	PV1	PAVING PLAN
14 - 15	DR1 - DR2	DRAINAGE PLAN
16 - 17	ST1 - ST2	WALL PLAN AND PROFILE
18	CE1	EXISTING CREEK PLAN
19	CR1	CREEK PLAN
20	CP1	CREEK PROFILE
21 - 23	CD1 - CD3	CREEK DETAILS
24	CN1	GRADING PLAN
25	IL1	ILLUMINATION PLAN
26	SN1	SIGNING PLAN
27 - 28	BG1 - BG2	CONCEPTUAL BRIDGE PLAN - LAYOUT AND UTILITIES
29	BG3	CONCEPTUAL ELEVATION - BD169 LINE BRIDGE
30	BG4	CONCEPTUAL TYPICAL BRIDGE SECTION - BD169 LINE
31	BG5	CONCEPTUAL ELEVATION - UT @ BDR LINE BURIED STRUCTURE
32	BG6	CONCEPTUAL TYPICAL SECTION - UT @ BDR LINE BURIED STRUCTURE

SECT. 11, T. 21N. R. 6E W.M.







FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219375\XL6133_PS_VM_001.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	2:11:26 PM				JOB NUMBER XL-6133		
DATE	12/12/2023				CONTRACT NO.		LOCATION NO.
PLOTTED BY	lsimanek						
DESIGNED BY	A. LANGTRY						
ENTERED BY	J. MOHR						
CHECKED BY	V. DELGADO						
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

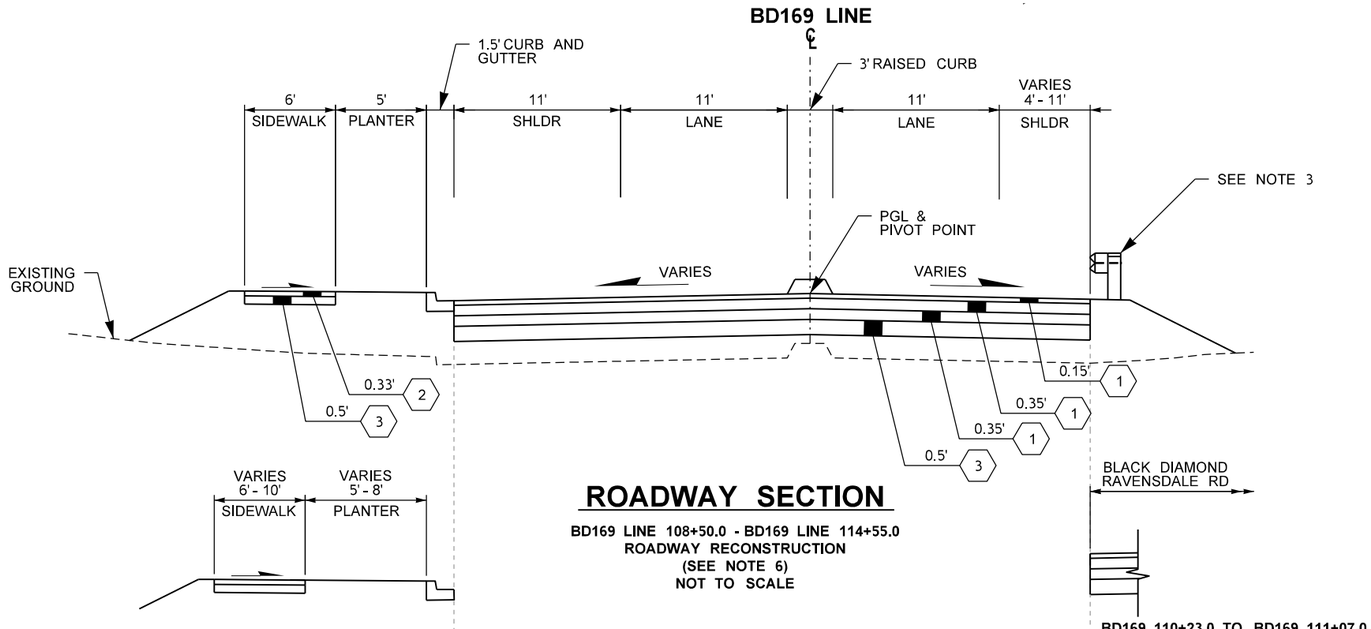
SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

VICINITY MAP

PLAN REF NO
VM1

SHEET 2 OF 32 SHEETS

LEGEND	
1	HMA CLASS½" PG 58H-22
2	PORTLAND CEMENT CONCRETE
3	CRUSHED SURFACING BASE COURSE



ROADWAY SECTION

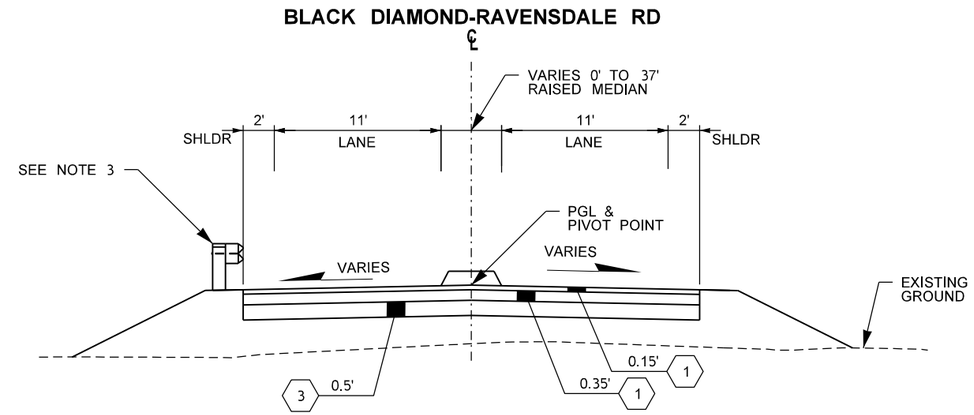
BD169 LINE 108+50.0 - BD169 LINE 114+55.0
ROADWAY RECONSTRUCTION
(SEE NOTE 6)
NOT TO SCALE

BD169 108+50.0 TO BD169 109+39.0

SIDEWALK END CONDITION

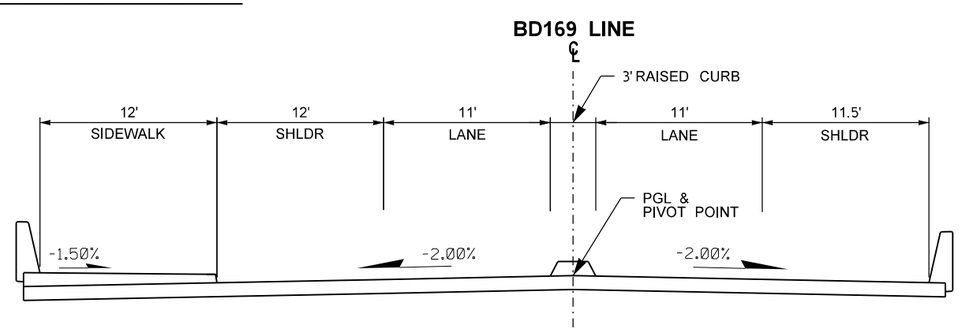
BD169 110+23.0 TO BD169 111+07.0

END CONDITION



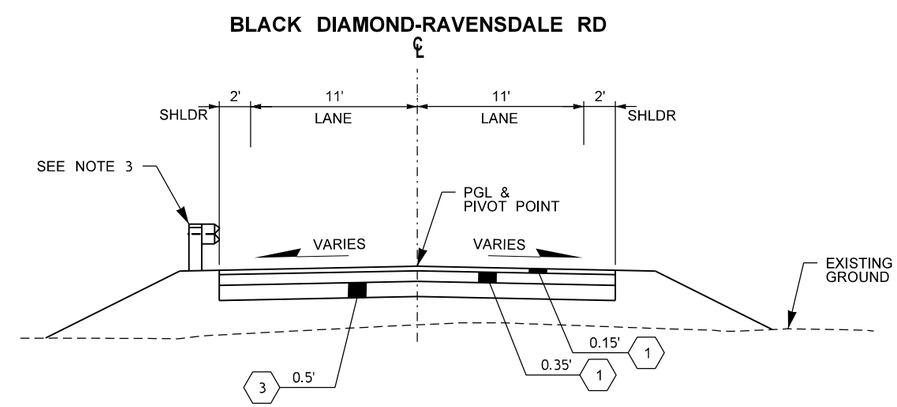
ROADWAY SECTION

BDR LINE 110+98.7 - BDR LINE 111+15.3
ROADWAY RECONSTRUCTION
(SEE NOTE 6)
NOT TO SCALE



BRIDGE SECTION

BD169 LINE 111+06.4 - BD169 LINE 112+41.8
BRIDGE AND APPROACH SLAB
(SEE NOTE 6)
NOT TO SCALE



ROADWAY SECTION

BDR LINE 110+77.8 - BDR LINE 110+98.7 &
BDR LINE 111+15.3 - BDR LINE 113+15.0
ROADWAY RECONSTRUCTION
(SEE NOTE 6)
NOT TO SCALE

GENERAL NOTES

1. LANE AND SHOULDER WIDTHS ARE ESTIMATED TO REFLECT EXISTING CONDITIONS. DESIGN-BUILDER TO VERIFY. SEE RFP SECTION 2.5.
2. THE DESIGN-BUILDER SHALL RECONSTRUCT THE ROADWAY WITH PRE-EXISTING ROADWAY CENTERLINE, PROFILE, CROSS SLOPES AND SECTIONS.
3. NEW GUARDRAIL OR BARRIER LOCATION AND EXTENTS TO BE DETERMINED BY THE DESIGN-BUILDER. SEE RFP SECTION 2.11.
4. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
5. SEE SHEET RP1-RP2 FOR ROADWAY PROFILES.
6. DESIGN-BUILDER TO SAWCUT EXISTING PAVEMENT AS REQUIRED TO CONSTRUCT NEW STRUCTURES. SEE PAVEMENT DESIGN REPORT.

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219380\XL6133_XS_RS_001.DGN					
TIME	2:11:34 PM				REGION NO. 10	STATE WASH
DATE	12/12/2023					FED.AID PROJ.NO.
PLOTTED BY	lsimanek				JOB NUMBER XL-6133	
DESIGNED BY	A. LANGTRY					
ENTERED BY	J. MOHR					
CHECKED BY	V. DELGADO				CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	T. NAU					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

ROADWAY SECTIONS

PLAN REF NO RS1

SHEET 3 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

GENERAL NOTES

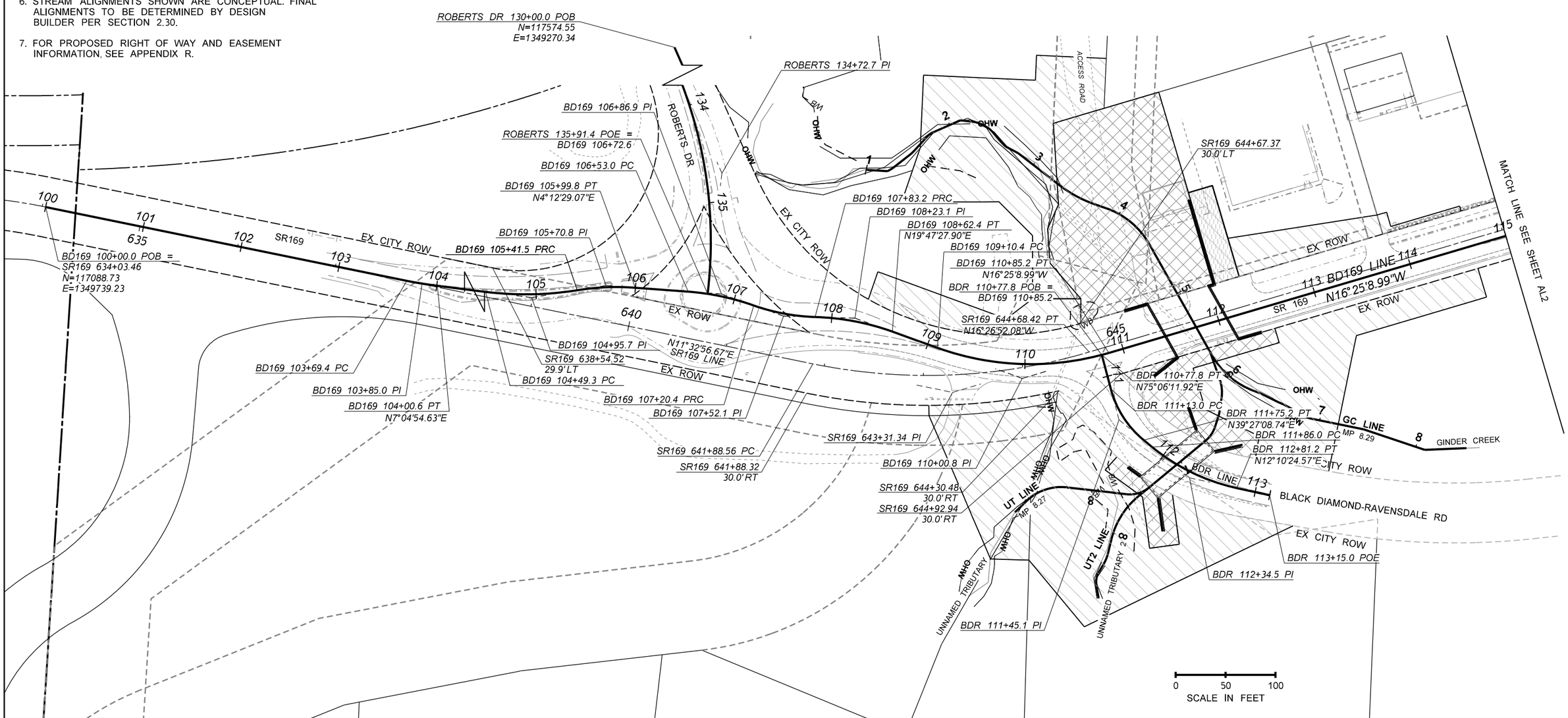
1. THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE COORDINATE SYSTEM NORTH ZONE (NAD 83/11).
2. FOR SURVEY INFORMATION SEE "GINDER CREEK CONSTRUCTION CONTROL PLAN", APPENDIX R.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
4. SR169 LINE SET FROM WSDOT RIGHT OF WAY PLANS. THE REMAINING ROADWAY ALIGNMENTS ARE BEST FIT AND TIED TO THE SR169 LINE.
5. BR169 LINE IS SET FROM TEN TRAILS PROJECT (FUTURE EXISTING) AND TIED INTO THE SR169 LINE.
6. STREAM ALIGNMENTS SHOWN ARE CONCEPTUAL. FINAL ALIGNMENTS TO BE DETERMINED BY DESIGN BUILDER PER SECTION 2.30.
7. FOR PROPOSED RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPENDIX R.

CURVE DATA

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
BD169 STA. 104+98.71	16°14'24.8" Lt	325.0'	46.37'	92.12'	NC
BD169 STA. 105+70.75	13°21'59.2" Rt	250.0'	29.29'	58.32'	NC
BD169 STA. 106+86.93	15°26'23.3" Rt	250.0'	33.89'	67.37'	NC
BD169 STA. 107+52.08	17°59'52.6" Lt	200.0'	31.67'	62.83'	NC
BD169 STA. 108+23.14	18°08'28.1" Rt	250.0'	39.91'	79.16'	NC
BD169 STA. 110+00.81	39°12'36.9" Lt	276.5'	90.40'	174.75'	NC
BDR STA. 111+45.12	35°39'03.2" Rt	100.0'	32.16'	62.22'	NC
BDR STA. 112+81.23	27°16'44.2" Lt	200.0'	48.53'	95.22'	NC
SR169 STA. 643+31.34	27°59'16.4" Lt	572.92'	142.78'	279.86'	NC

LEGEND

- PARCEL
- 630 / 200 — EXISTING ALIGNMENT
- CONSTRUCTION ALIGNMENT
- HIGHWAY RIGHT OF WAY
- CITY/COUNTY RIGHT-OF-WAY
- EXISTING EASEMENT/ PERMIT
- NEW PERMANENT EASEMENT
- NEW TEMPORARY EASEMENT
- NEW PERMANENT SUBTERRANEAN EASEMENT
- CP ## / CP ## — CONTROL / MONUMENT POINT



FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219378\XL6133_PS_AL_001.dgn					
TIME	2:11:51 PM					
DATE	12/12/2023					
PLOTTED BY	lsimanek					
DESIGNED BY	A. LANGTRY					
ENTERED BY	J. MOHR					
CHECKED BY	V. DELGADO					
PROJ. ENGR.	T. NAU					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

HNTB

SR 169 & SR 509 FISH PASSAGE SR 169 GINDER CREEK

ALIGNMENT PLAN

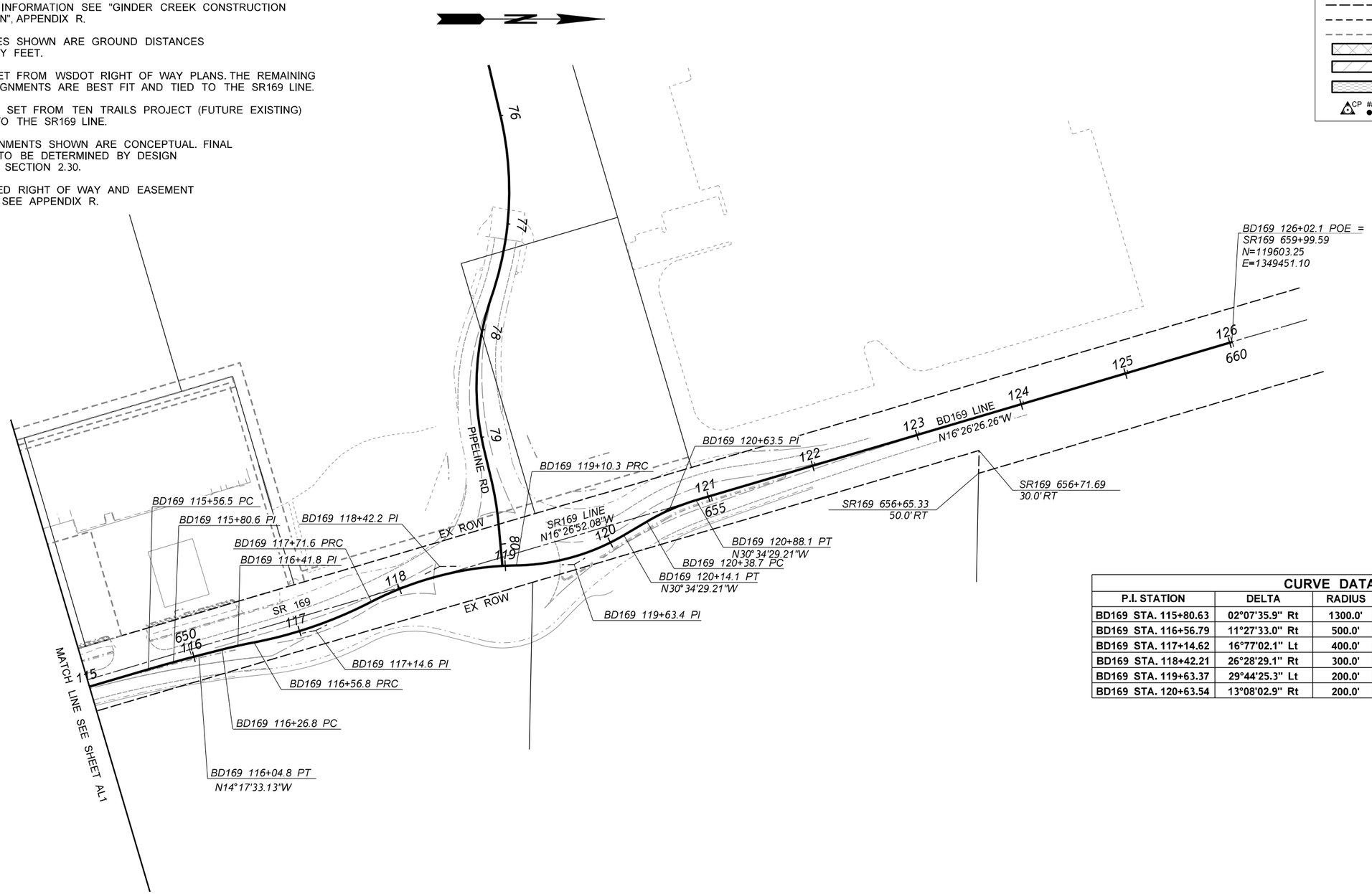
PLAN REF NO AL1

SHEET 4 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

GENERAL NOTES

1. THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE COORDINATE SYSTEM NORTH ZONE (NAD 83/11).
2. FOR SURVEY INFORMATION SEE "GINDER CREEK CONSTRUCTION CONTROL PLAN", APPENDIX R.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
4. SR169 LINE SET FROM WSDOT RIGHT OF WAY PLANS. THE REMAINING ROADWAY ALIGNMENTS ARE BEST FIT AND TIED TO THE SR169 LINE.
5. BR169 LINE IS SET FROM TEN TRAILS PROJECT (FUTURE EXISTING) AND TIED INTO THE SR169 LINE.
6. STREAM ALIGNMENTS SHOWN ARE CONCEPTUAL. FINAL ALIGNMENTS TO BE DETERMINED BY DESIGN BUILDER PER SECTION 2.30.
7. FOR PROPOSED RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPENDIX R.



LEGEND

- PARCEL
- 630 / 200 — EXISTING ALIGNMENT
- CONSTRUCTION ALIGNMENT
- HIGHWAY RIGHT OF WAY
- CITY/COUNTY RIGHT-OF-WAY
- EXISTING EASEMENT/ PERMIT
- NEW PERMANENT EASEMENT
- NEW TEMPORARY EASEMENT
- NEW PERMANENT SUBTERRANEAN EASEMENT
- CP ## / CP ## — CONTROL / MONUMENT POINT

CURVE DATA

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
BD169 STA. 115+80.63	02°07'35.9" Rt	1300.0'	24.13'	48.25'	NC
BD169 STA. 116+56.79	11°27'33.0" Rt	500.0'	14.99'	29.97'	NC
BD169 STA. 117+14.62	16°77'02.1" Lt	400.0'	57.82'	114.85'	NC
BD169 STA. 118+42.21	26°28'29.1" Rt	300.0'	70.57'	138.62'	NC
BD169 STA. 119+63.37	29°44'25.3" Lt	200.0'	53.10'	103.81'	NC
BD169 STA. 120+63.54	13°08'02.9" Rt	200.0'	24.79'	49.34'	NC

0 50 100
SCALE IN FEET

FILE NAME	c:\caddIIb\pw\hntb_lsimanek\west\d0219378\XL6133_PS_AL_002.dgn
TIME	2:11:57 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. LANGTRY
ENTERED BY	J. MOHR
CHECKED BY	V. DELGADO
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER XL-6133

CONTRACT NO. | LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

ALIGNMENT PLAN

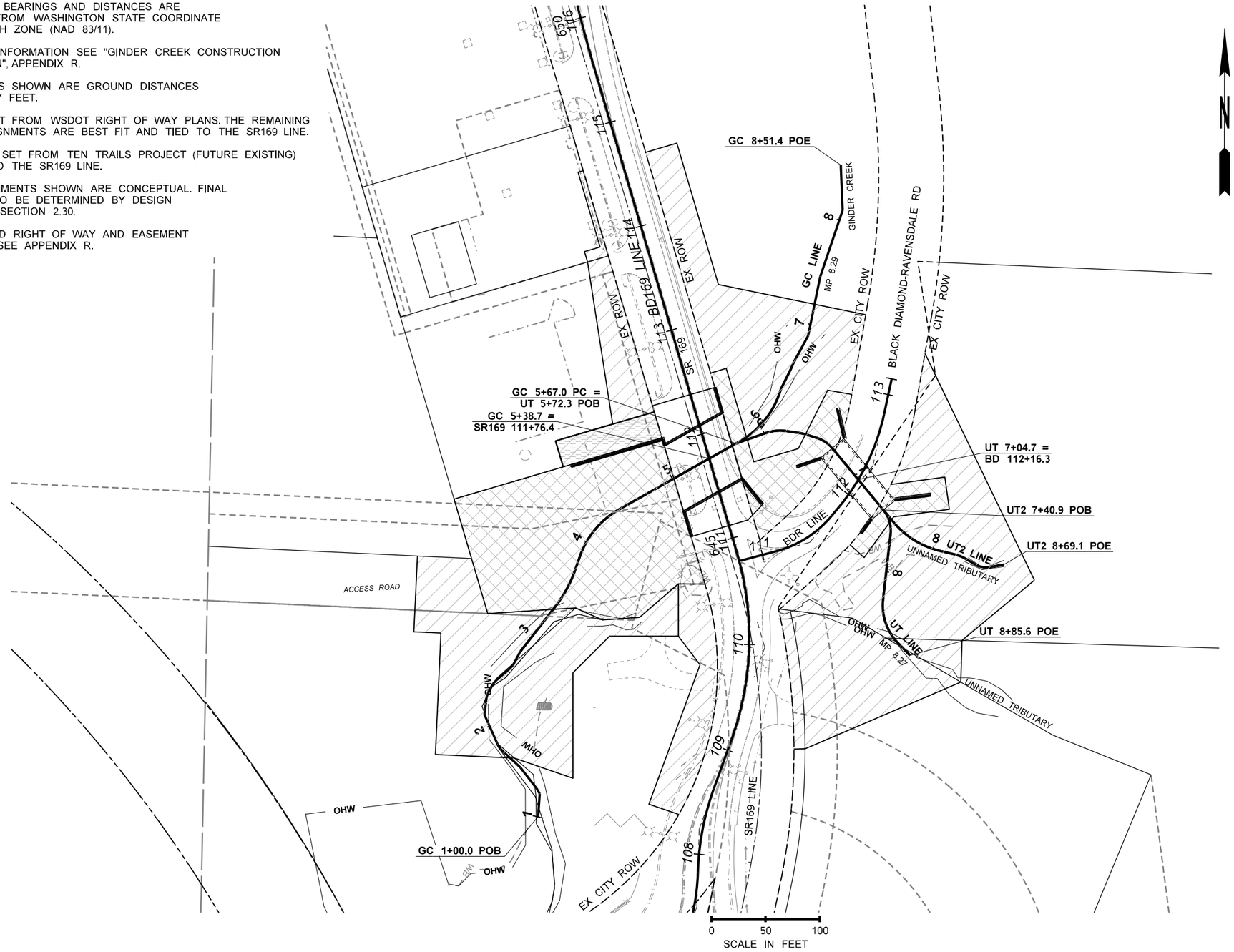
PLAN REF NO AL2

SHEET 5 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

GENERAL NOTES

1. THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE COORDINATE SYSTEM NORTH ZONE (NAD 83/11).
2. FOR SURVEY INFORMATION SEE "GINDER CREEK CONSTRUCTION CONTROL PLAN", APPENDIX R.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
4. SR169 LINE SET FROM WSDOT RIGHT OF WAY PLANS. THE REMAINING ROADWAY ALIGNMENTS ARE BEST FIT AND TIED TO THE SR169 LINE.
5. BR169 LINE IS SET FROM TEN TRAILS PROJECT (FUTURE EXISTING) AND TIED INTO THE SR169 LINE.
6. STREAM ALIGNMENTS SHOWN ARE CONCEPTUAL. FINAL ALIGNMENTS TO BE DETERMINED BY DESIGN BUILDER PER SECTION 2.30.
7. FOR PROPOSED RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPENDIX R.



LEGEND

- PARCEL
- 630 / 200 — EXISTING ALIGNMENT / CONSTRUCTION ALIGNMENT
- HIGHWAY RIGHT OF WAY
- CITY/COUNTY RIGHT-OF-WAY
- EXISTING EASEMENT/ PERMIT
- NEW PERMANENT EASEMENT
- NEW TEMPORARY EASEMENT
- NEW PERMANENT SUBTERRANEAN EASEMENT

N

GC ALIGNMENT INFO
GC 1+01.3 AP
GC 1+21.4 AP
GC 1+27.1 AP
GC 1+51.2 AP
GC 1+56.2 AP
GC 1+71.2 AP
GC 1+76.6 AP
GC 1+81.6 AP
GC 2+11.6 AP
GC 2+26.7 AP
GC 2+31.6 AP
GC 2+41.6 AP
GC 2+46.1 AP
GC 2+61.1 AP
GC 2+66.6 AP
GC 2+81.1 AP
GC 3+33.7 PC
GC 3+53.5 PI
GC 3+72.9 PT
GC 3+85.5 PC
GC 4+15.8 PI
GC 4+43.5 PT
GC 5+71.0 PC
GC 6+00.6 PI
GC 6+27.7 PT
GC 6+34.3 AP
GC 6+54.3 AP
GC 6+60.0 AP
GC 6+89.3 AP
GC 7+44.9 AP
GC 8+09.6 AP
GC 8+49.8 AP
GC 8+49.8 AP

UT ALIGNMENT INFO
UT 6+01.4 PC
UT 6+11.2 PI
UT 6+20.7 PT
UT 6+32.9 PC
UT 6+36.1 PI
UT 6+39.3 PT
UT 6+49.9 PC
UT 6+58.8 PI
UT 6+67.1 PT
UT 7+40.9 PC
UT 7+53.7 PI
UT 7+65.1 PT
UT 8+25.4 PC
UT 8+49.1 PI
UT 8+69.6 PT

UT2 ALIGNMENT INFO
UT2 7+55.2 PC
UT2 7+81.9 PI
UT2 8+06.8 PT
UT2 8+20.9 PC
UT2 8+27.3 PI
UT2 8+33.5 PT
UT2 8+41.4 PC
UT2 8+49.0 PI
UT2 8+55.8 PT

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219378\XL6133_PS_AL_003.dgn					
TIME	2:12:11 PM					
DATE	12/12/2023					
PLOTTED BY	lsimanek					
DESIGNED BY	A. LANGTRY					
ENTERED BY	J. MOHR					
CHECKED BY	V. DELGADO					
PROJ. ENGR.	T. NAU					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CREEK ALIGNMENT PLAN

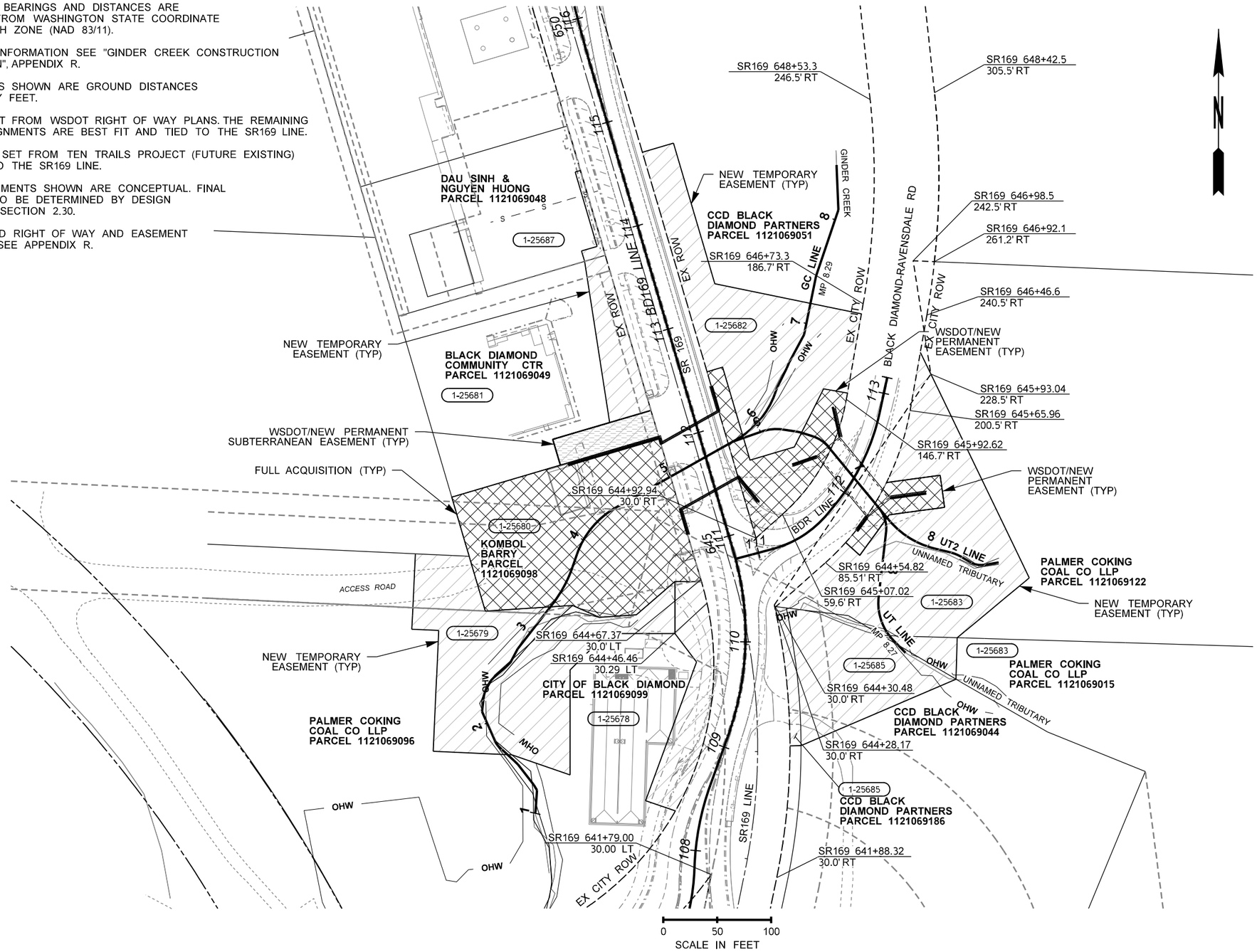
PLAN REF NO AL3

SHEET 6 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

GENERAL NOTES

1. THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE COORDINATE SYSTEM NORTH ZONE (NAD 83/11).
2. FOR SURVEY INFORMATION SEE "GINDER CREEK CONSTRUCTION CONTROL PLAN", APPENDIX R.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
4. SR169 LINE SET FROM WSDOT RIGHT OF WAY PLANS. THE REMAINING ROADWAY ALIGNMENTS ARE BEST FIT AND TIED TO THE SR169 LINE.
5. BR169 LINE IS SET FROM TEN TRAILS PROJECT (FUTURE EXISTING) AND TIED INTO THE SR169 LINE.
6. STREAM ALIGNMENTS SHOWN ARE CONCEPTUAL. FINAL ALIGNMENTS TO BE DETERMINED BY DESIGN BUILDER PER SECTION 2.30.
7. FOR PROPOSED RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPENDIX R.



LEGEND

- PARCEL
- 630 / 200 — EXISTING ALIGNMENT
- CONSTRUCTION ALIGNMENT
- HIGHWAY RIGHT OF WAY
- CITY/COUNTY RIGHT-OF-WAY
- EXISTING EASEMENT/ PERMIT
- NEW PERMANENT EASEMENT
- NEW TEMPORARY EASEMENT
- NEW PERMANENT SUBTERRANEAN EASEMENT

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219378\XL6133_PS_AL_004.dgn
TIME	2:12:16 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. LANGTRY
ENTERED BY	J. MOHR
CHECKED BY	V. DELGADO
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

HNTB

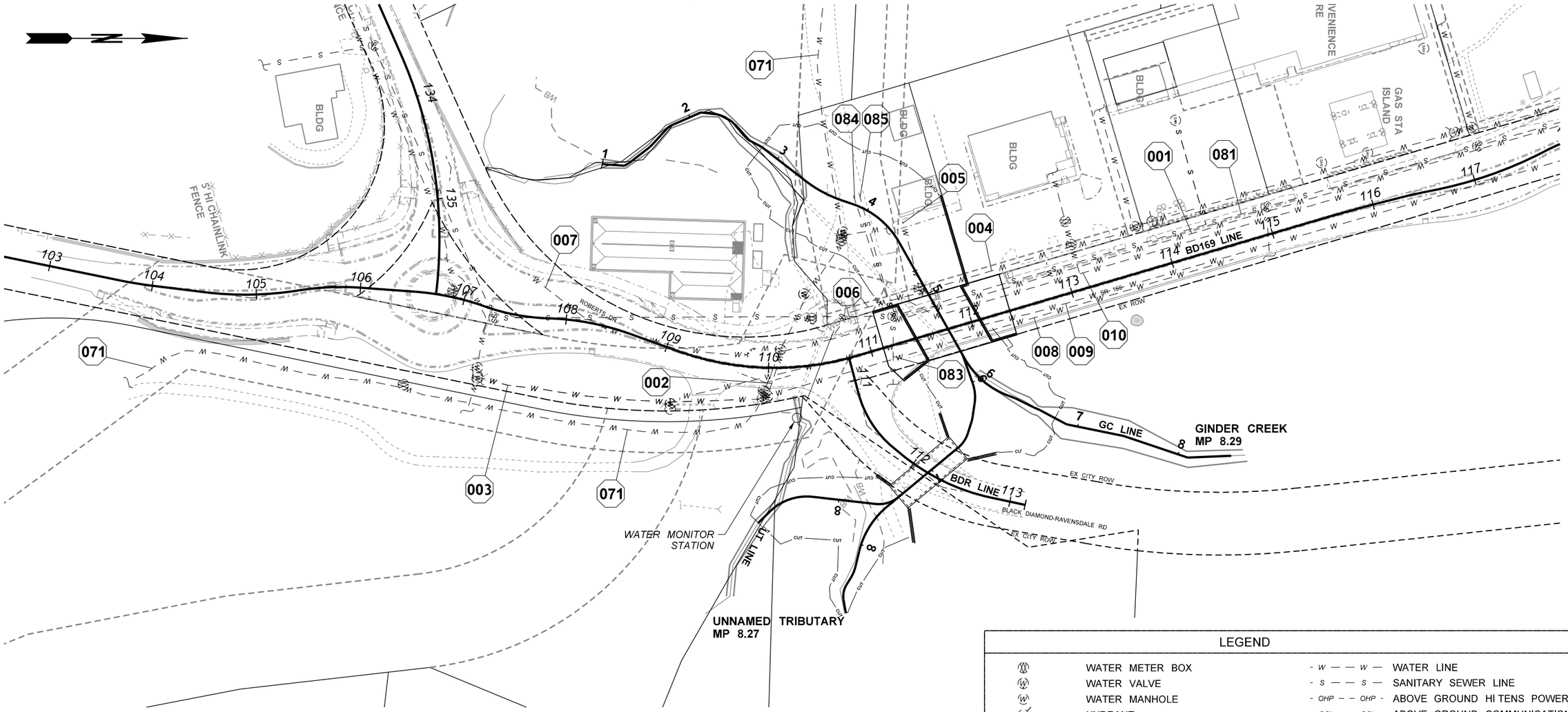
SR 169 & SR 509 FISH PASSAGE SR 169 GINDER CREEK

PROPOSED EASEMENT PLAN

PLAN REF NO AL4

SHEET 7 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.



GENERAL NOTES

000 SEE UTILITY SUMMARY APPENDIX U

LEGEND

	WATER METER BOX	- W — — W —	WATER LINE
	WATER VALVE	- S — — S —	SANITARY SEWER LINE
	WATER MANHOLE	- OHP — — OHP -	ABOVE GROUND HI TENS POWER LINE
	HYDRANT	- OCL — — OCL -	ABOVE GROUND COMMUNICATION LINE
	SANITARY SEWER MANHOLE	- BT — — BT —	UNDERGROUND TELEPHONE CABLE
	SANITARY SEWER CLEAN OUT	- BF — — BF —	UNDERGROUND FIBER OPTIC
	POWER POLE	- G — — G —	GAS LINE
	TELEPHONE BOX	- BP — — BP —	UNDER GROUND POWER LINE
	TELEPHONE POLE	————	HIGHWAY RIGHT OF WAY
	CABLE PEDESTAL	- - - - - - - -	CITY RIGHT OF WAY
	UTILITY POLE	- - - - - - - -	EASEMENT
	DOWN GUY ANCHOR		
	POWER VAULT		
	UTILITY MANHOLE		
	UTILITY VAULT		
	GAS VALVE BOX		

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219376\XL6133_PS_EU_001.DGN
TIME	2:12:25 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	Q. ZHENG
ENTERED BY	Q. ZHENG
CHECKED BY	J. FENG
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER XL-6133

CONTRACT NO. | LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

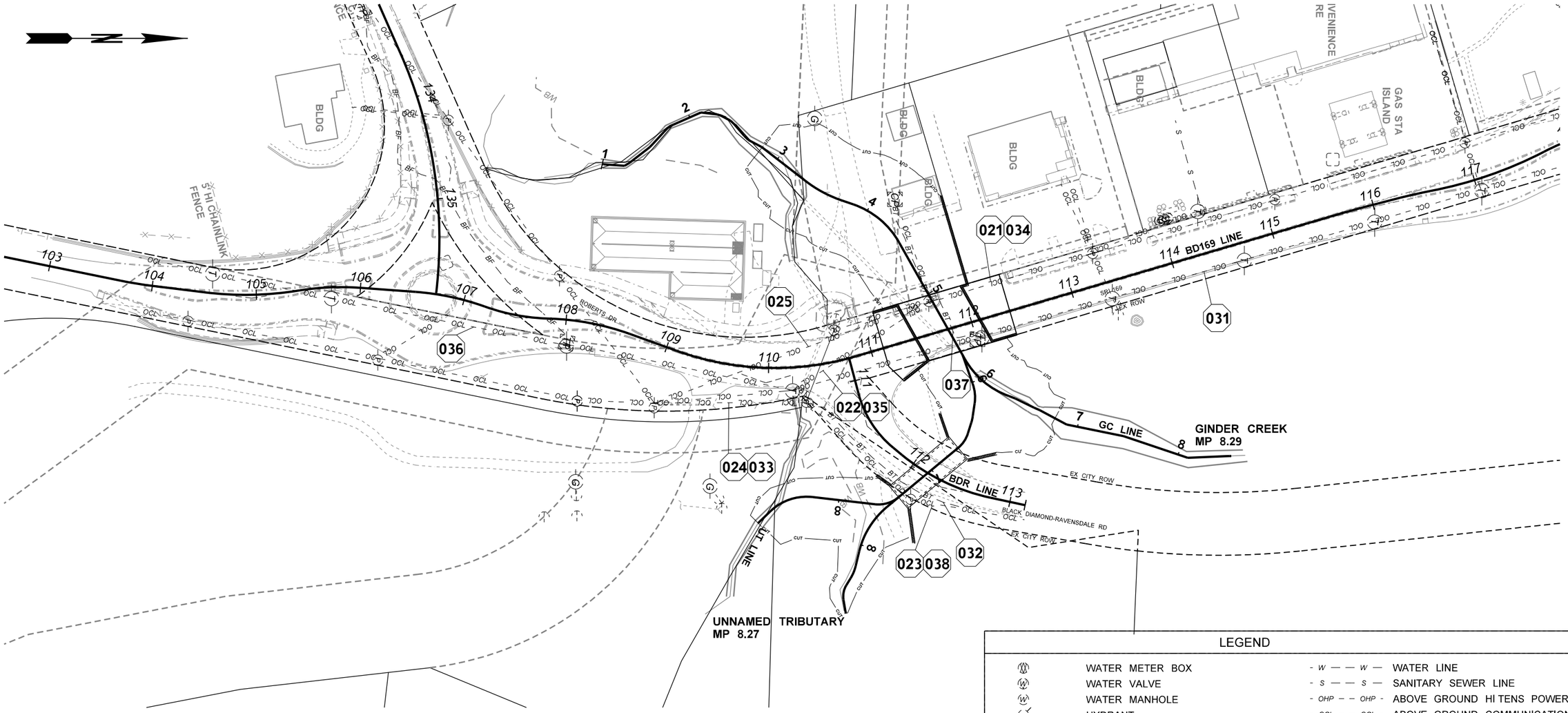
SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

EXISTING UTILITIES

PLAN REF NO EU1

SHEET 8 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.



GENERAL NOTES

000 SEE UTILITY SUMMARY APPENDIX U

LEGEND

	WATER METER BOX	- W — — W —	WATER LINE
	WATER VALVE	- S — — S —	SANITARY SEWER LINE
	WATER MANHOLE	- OHP — — OHP -	ABOVE GROUND HI TENS POWER LINE
	HYDRANT	- OCL — — OCL -	ABOVE GROUND COMMUNICATION LINE
	SANITARY SEWER MANHOLE	- BT — — BT —	UNDERGROUND TELEPHONE CABLE
	SANITARY SEWER CLEAN OUT	- BF — — BF —	UNDERGROUND FIBER OPTIC
	POWER POLE	- G — — G —	GAS LINE
	TELEPHONE BOX	- BP — — BP —	UNDER GROUND POWER LINE
	TELEPHONE POLE	————	HIGHWAY RIGHT OF WAY
	CABLE PEDESTAL	- - - - - - - -	CITY RIGHT OF WAY
	UTILITY POLE	- - - - - - - -	EASEMENT
	DOWN GUY ANCHOR		
	POWER VAULT		
	UTILITY MANHOLE		
	UTILITY VAULT		
	GAS VALVE BOX		

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219376\XL6133_PS_EU_002.DGN				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	2:12:36 PM						
DATE	12/12/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6133		
DESIGNED BY	Q. ZHENG						
ENTERED BY	Q. ZHENG						
CHECKED BY	J. FENG				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

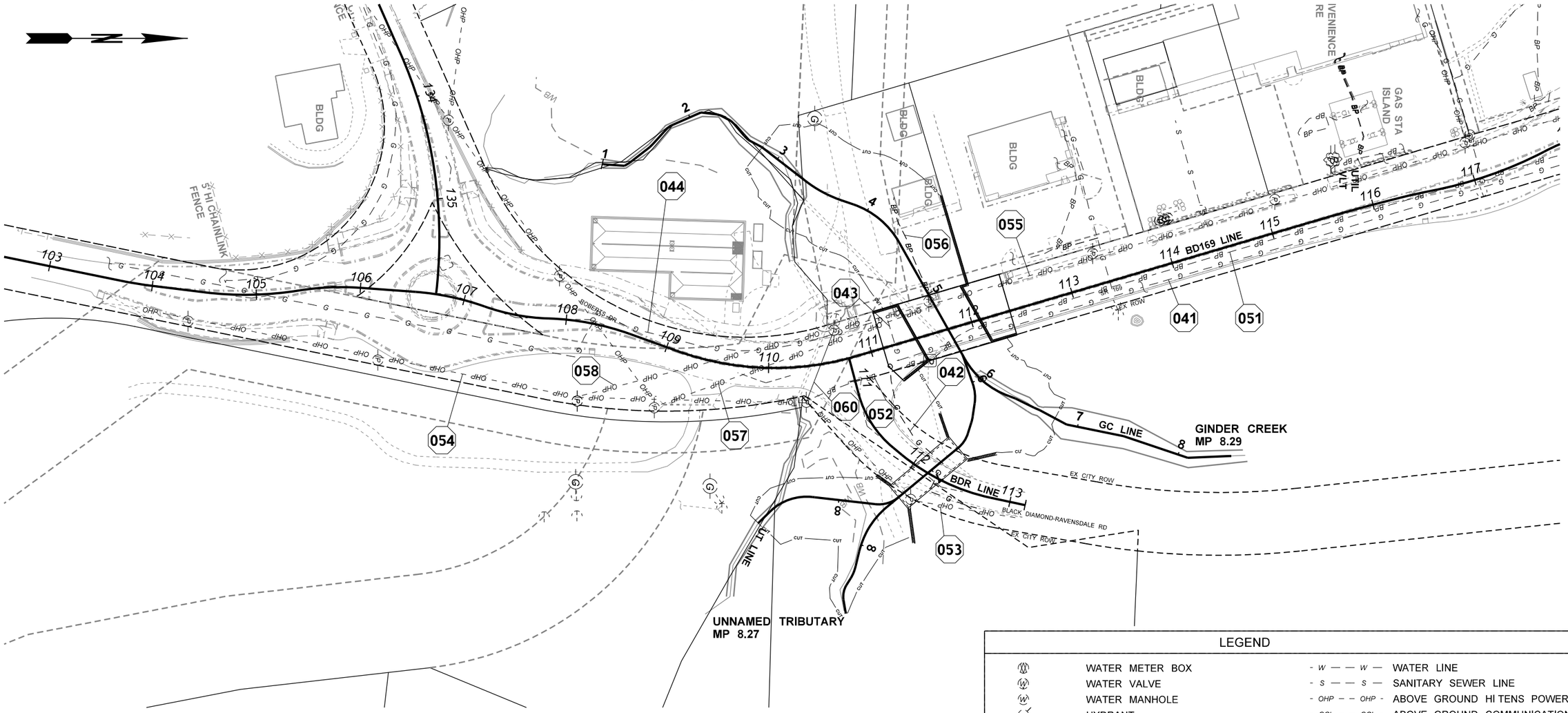
SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

EXISTING UTILITIES

PLAN REF NO
EU2

SHEET 9 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.



GENERAL NOTES

000 SEE UTILITY SUMMARY APPENDIX U

LEGEND

	WATER METER BOX	- W — — W —	WATER LINE
	WATER VALVE	- S — — S —	SANITARY SEWER LINE
	WATER MANHOLE	- OHP — — OHP -	ABOVE GROUND HI TENS POWER LINE
	HYDRANT	- OCL — — OCL -	ABOVE GROUND COMMUNICATION LINE
	SANITARY SEWER MANHOLE	- BT — — BT —	UNDERGROUND TELEPHONE CABLE
	SANITARY SEWER CLEAN OUT	- BF — — BF —	UNDERGROUND FIBER OPTIC
	POWER POLE	- G — — G —	GAS LINE
	TELEPHONE BOX	- BP — — BP —	UNDER GROUND POWER LINE
	TELEPHONE POLE	————	HIGHWAY RIGHT OF WAY
	CABLE PEDESTAL	- - - - - - - -	CITY RIGHT OF WAY
	UTILITY POLE	- - - - - - - -	EASEMENT
	DOWN GUY ANCHOR		
	POWER VAULT		
	UTILITY MANHOLE		
	UTILITY VAULT		
	GAS VALVE BOX		

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219376\XL6133_PS_EU_003.DGN				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	2:12:40 PM						
DATE	12/12/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6133		
DESIGNED BY	Q. ZHENG						
ENTERED BY	Q. ZHENG						
CHECKED BY	J. FENG				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

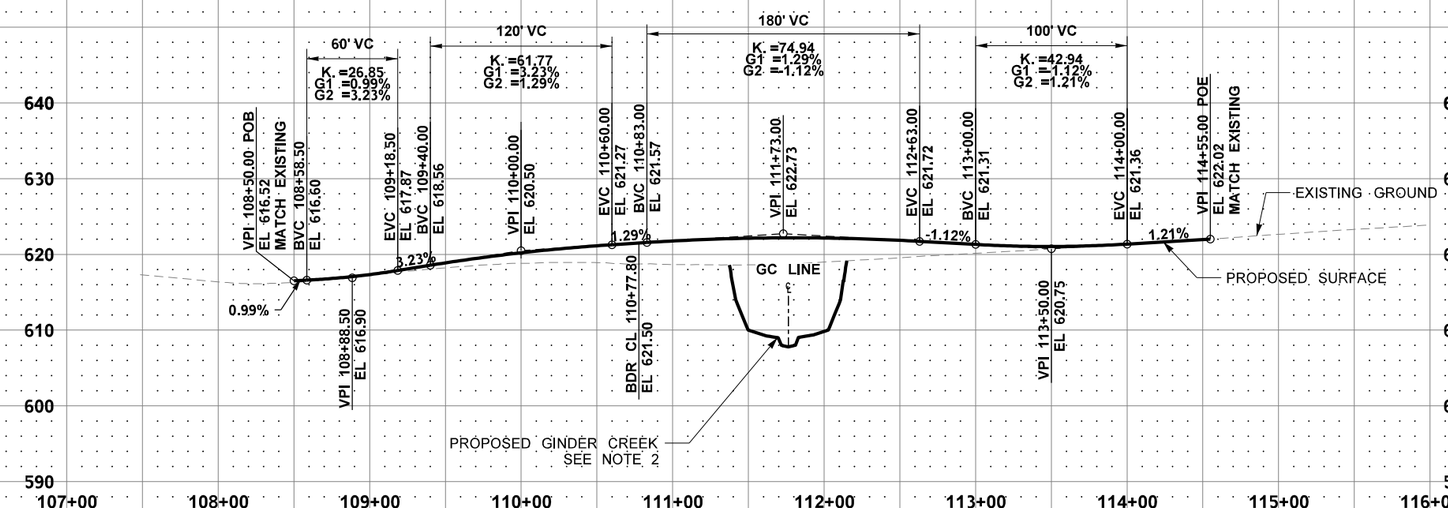
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

EXISTING UTILITIES

PLAN REF NO
EU3

SHEET 10 OF 32 SHEETS



BD169 LINE PROFILE

0 10 20
VERTICAL SCALE IN FEET

0 50 100
HORIZONTAL SCALE IN FEET

GENERAL NOTES

1. PROFILES SHOWN ARE INTENDED TO DEPICT APPROXIMATE EXISTING GRADES TO BE CONFIRMED BY THE DESIGN BUILDER.
2. SEE SHEETS CD1-CD2 FOR STREAM CROSS SECTION.

DATUM
(NAVD) 88

FILE NAME	c:\caddlib\pw\hntb_lsimanek\west\d0219380\XL6133_PR_RP_001.DGN						
TIME	2:12:44 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6133		
DESIGNED BY	A. LANGTRY						
ENTERED BY	J. MOHR						
CHECKED BY	V. DELGADO				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

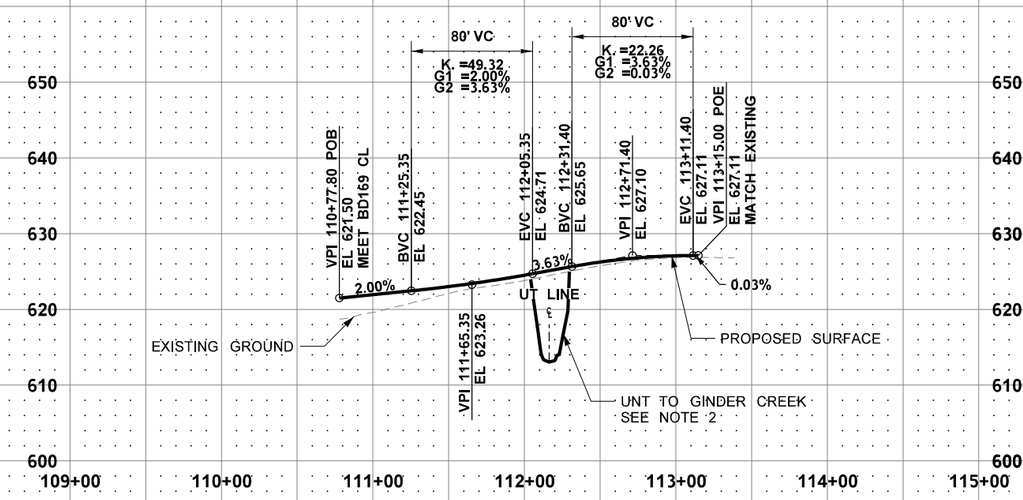
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

ROADWAY PROFILE

PLAN REF. NO. RP1

SHEET 11 OF 32 SHEETS



BDR LINE PROFILE

0 10 20
VERTICAL SCALE IN FEET

0 50 100
HORIZONTAL SCALE IN FEET

GENERAL NOTES

1. PROFILES SHOWN ARE INTENDED TO DEPICT APPROXIMATE EXISTING GRADES, TO BE CONFIRMED BY THE DESIGN BUILDER.
2. SEE SHEETS CD1-CD2 FOR STREAM CROSS SECTION.

DATUM
(NAVD) 88

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219380\XL6133_PR_RP_002.DGN
TIME	2:12:47 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. LANGTRY
ENTERED BY	J. MOHR
CHECKED BY	V. DELGADO
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

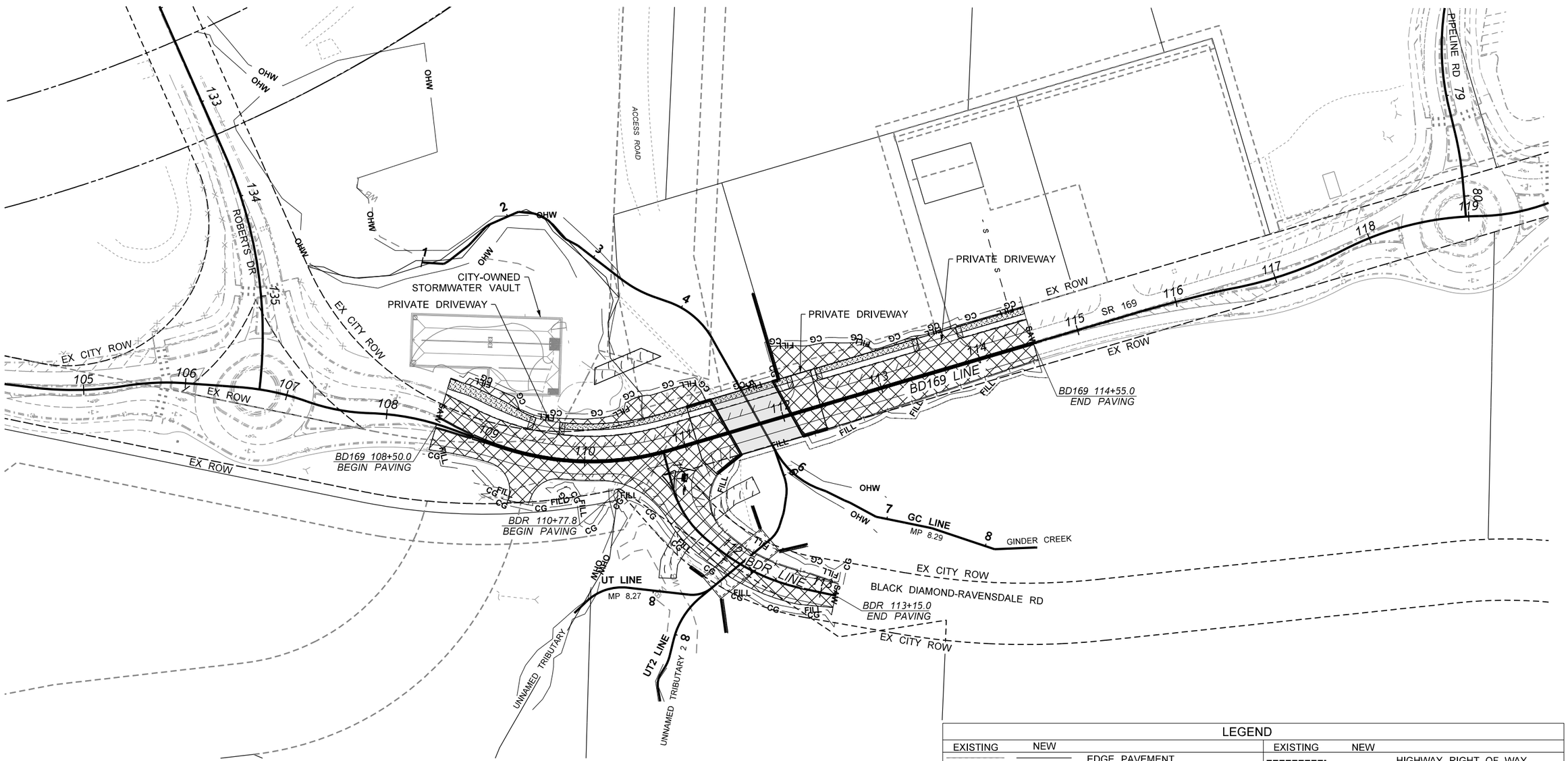
SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

ROADWAY PROFILE

PLAN REF. NO. RP2

SHEET 12 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.



GENERAL NOTES

1. FOR PAVING DEPTHS AND MATERIALS, SEE RS SHEETS.
2. SEE BR SHEETS FOR BRIDGE DETAILS AND APPROACH SLAB DETAILS.

0 50 100
SCALE IN FEET

LEGEND

EXISTING	NEW		EXISTING	NEW	
		EDGE PAVEMENT			HIGHWAY RIGHT OF WAY
		EDGE GRAVEL			CITY/COUNTY RIGHT-OF-WAY
		GUARDRAIL			EXISTING EASEMENT/ PERMIT
		LANE LINE			APPROACH BRIDGE SLAB
		EDGE LINE			BRIDGE DECK
		PARCEL LINE			HMA NEW PAVEMENT
		FENCE			CEMENT CONCRETE SIDEWALK
	CUT	CONCEPTUAL GRADING LIMITS			15' WIDE MAINTENANCE ACCESS
	CG	CONCEPTUAL CLEARING LIMITS			
		RETAINING WALLS			

FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0219380\XL6133_PS_PV_001.DGN
TIME	2:12:51 PM
DATE	12/12/2023
PLOTTED BY	lslmanek
DESIGNED BY	A. LANGTRY
ENTERED BY	J. MOHR
CHECKED BY	V. DELGADO
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

PAVING PLAN

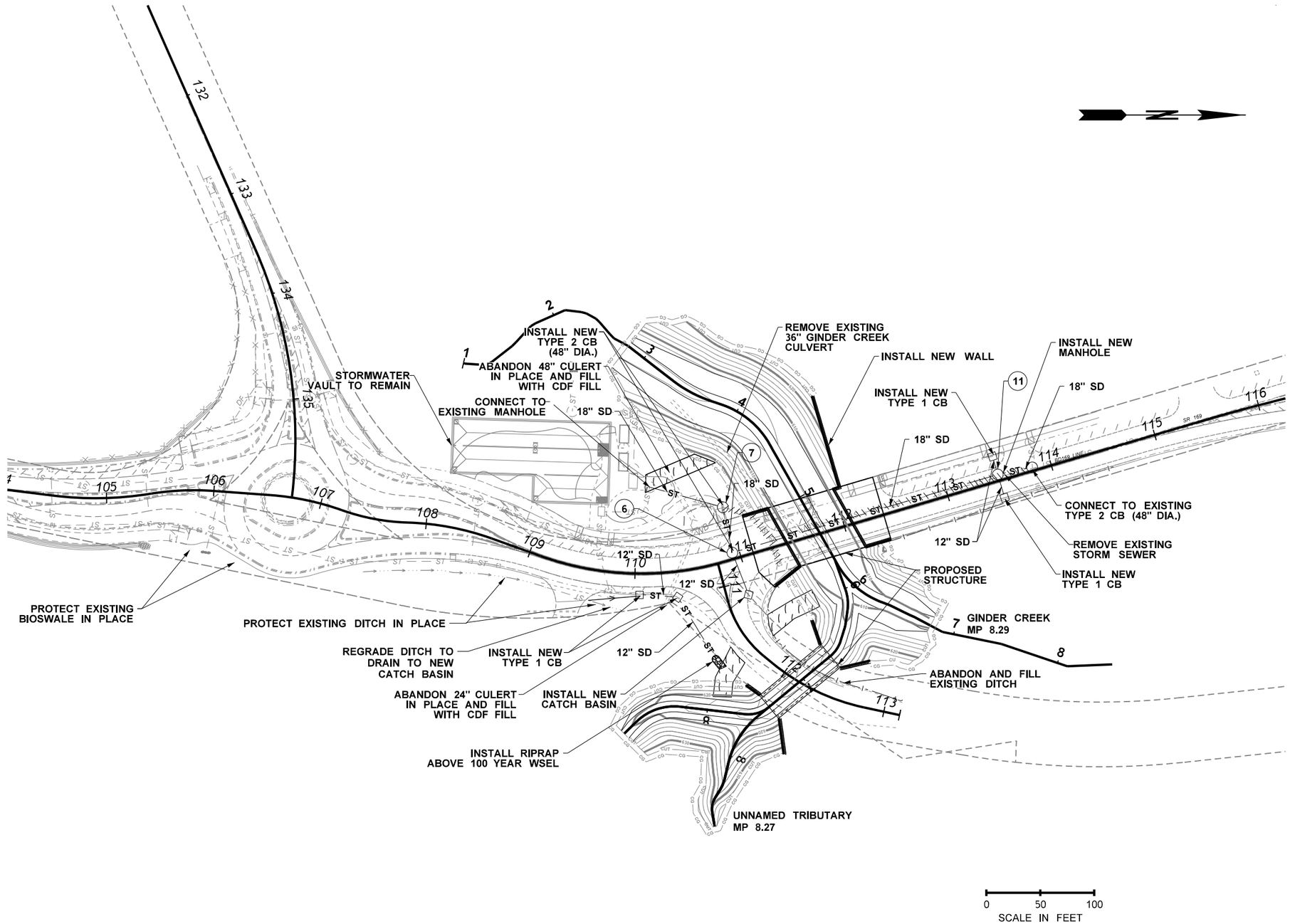
PLAN REF NO PV1

SHEET 13 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

GENERAL NOTES:

1. PROTECT ALL EXISTING STORMWATER INFRASTRUCTURE IN PLACE



LEGEND		
EXISTING	NEW	
		STREAM BUFFER
		WALLS
		REMOVE UTILITY
		DITCH
DP	DP	DRAIN PIPE LINE
		CULVERT
ST	ST	STORM SEWER LINE
		CATCH BASIN
		MANHOLE
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		LIMITED ACCESS
		BIOFILTRATION SWALE
		RIPRAP
		VEGETATED FILTER STRIP (VFS)

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219379\XL6133_PS_DR_001.DGN					
TIME	2:12:55 PM					
DATE	12/12/2023					
PLOTTED BY	lsimanek					
DESIGNED BY	J. FENG					
ENTERED BY	K. MORGAN					
CHECKED BY	T. LEE					
PROJ. ENGR.	T. NAU					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

DRAINAGE PLAN

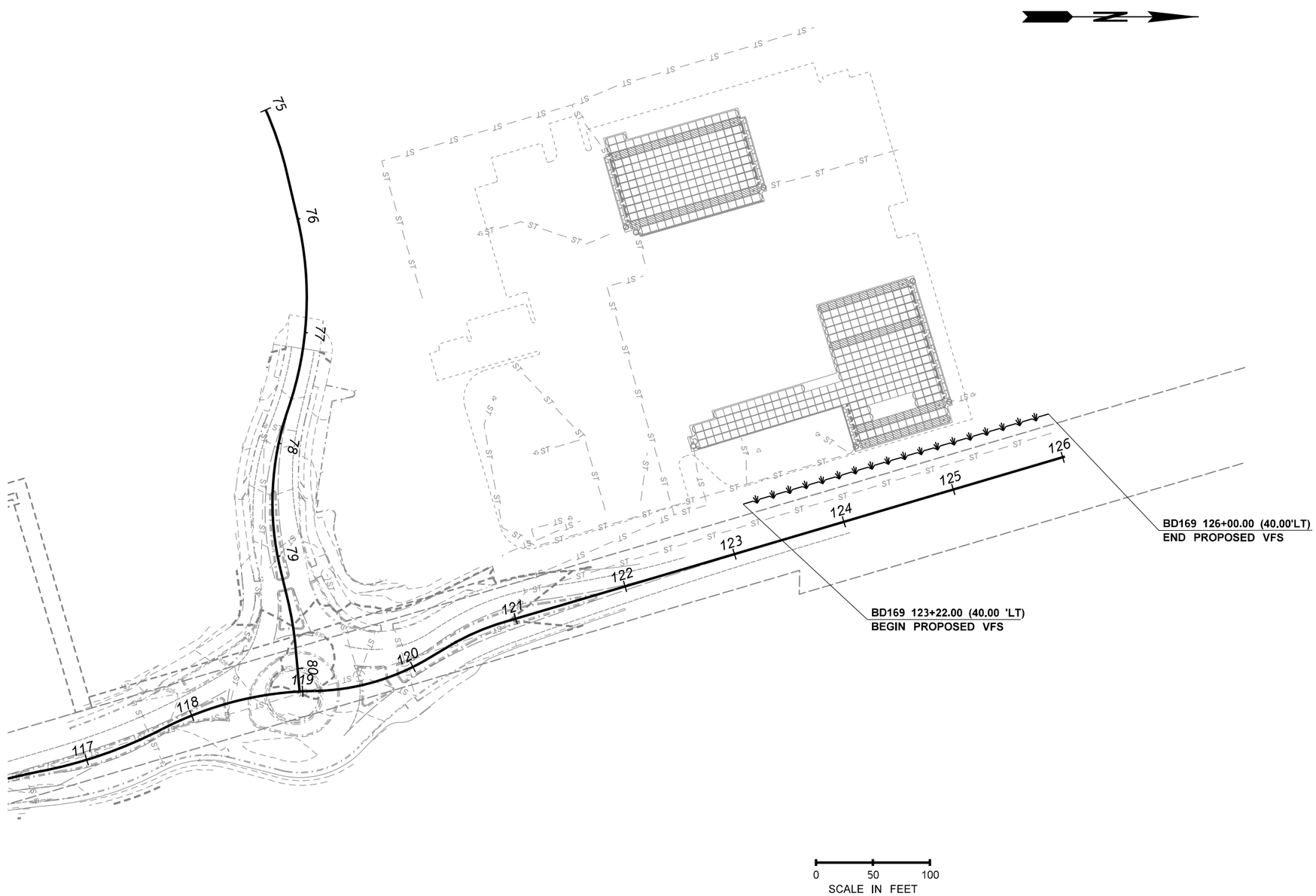
PLAN REF NO DR1

SHEET 14 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

GENERAL NOTES

1. PROTECT ALL EXISTING STORMWATER INFRASTRUCTURE IN PLACE.



LEGEND

EXISTING	NEW	
		STREAM BUFFER
		WALLS
		REMOVE UTILITY
		DITCH
DP	DP	DRAIN PIPE LINE
		CULVERT
ST	ST	STORM SEWER LINE
		CATCH BASIN
		MANHOLE
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		LIMITED ACCESS
		BIOFILTRATION SWALE
		RIPRAP
		VEGETATED FILTER STRIP (VFS)

FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0219379\XL6133_PS_DR_002.DGN						
TIME	2:12:59 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lslmanek				JOB NUMBER XL-6133		
DESIGNED BY	J. FENG						
ENTERED BY	K. MORGAN				CONTRACT NO.		LOCATION NO.
CHECKED BY	T. LEE						
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

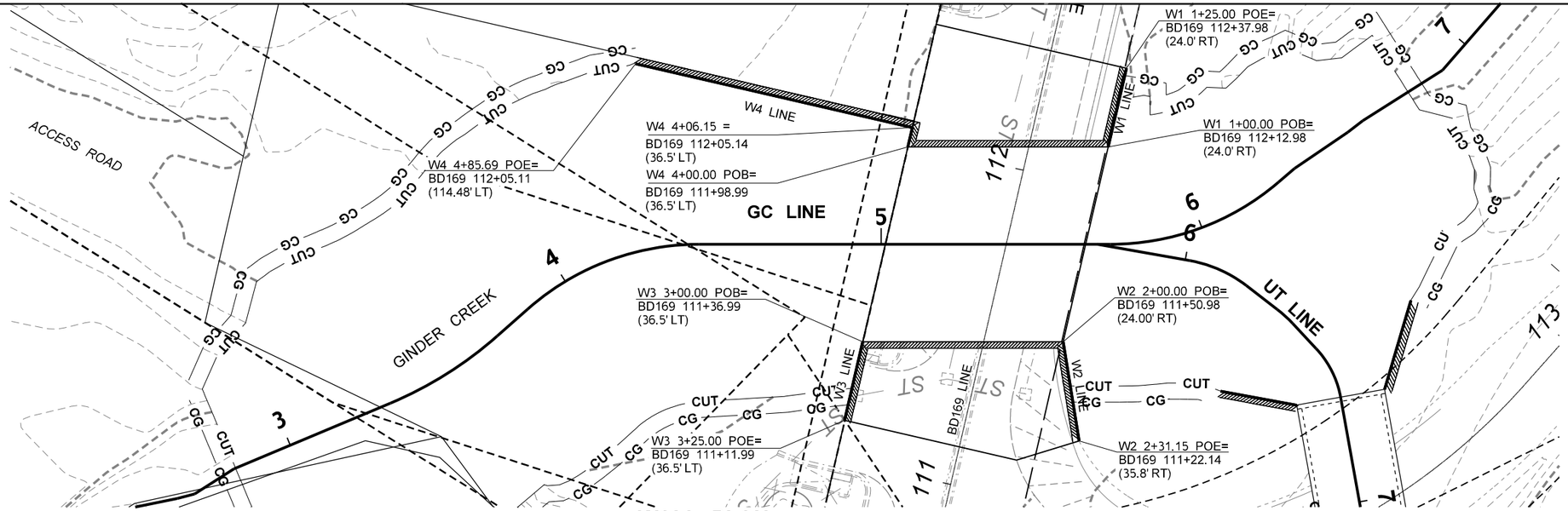
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

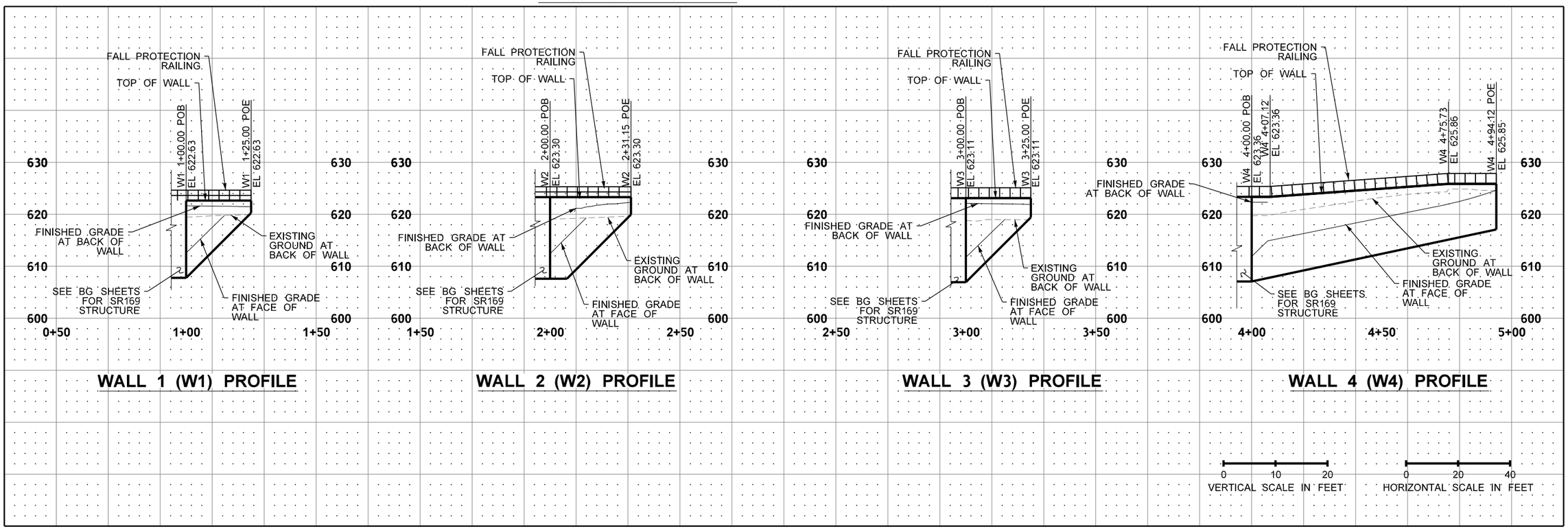
DRAINAGE PLAN

PLAN REF NO
DR2

SHEET 15 OF 32 SHEETS



WALL PLAN



WALL 1 (W1) PROFILE

WALL 2 (W2) PROFILE

WALL 3 (W3) PROFILE

WALL 4 (W4) PROFILE

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219384\XL6133_PS_ST_001.dgn
TIME	2:13:12 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. LANGTRY
ENTERED BY	A. LANGTRY
CHECKED BY	V. DELGADO
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

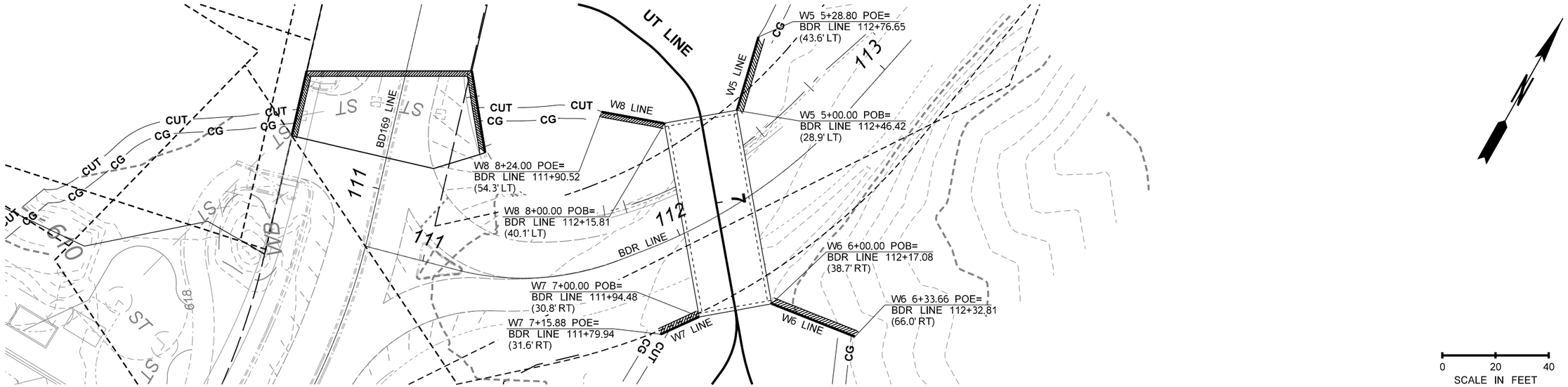
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

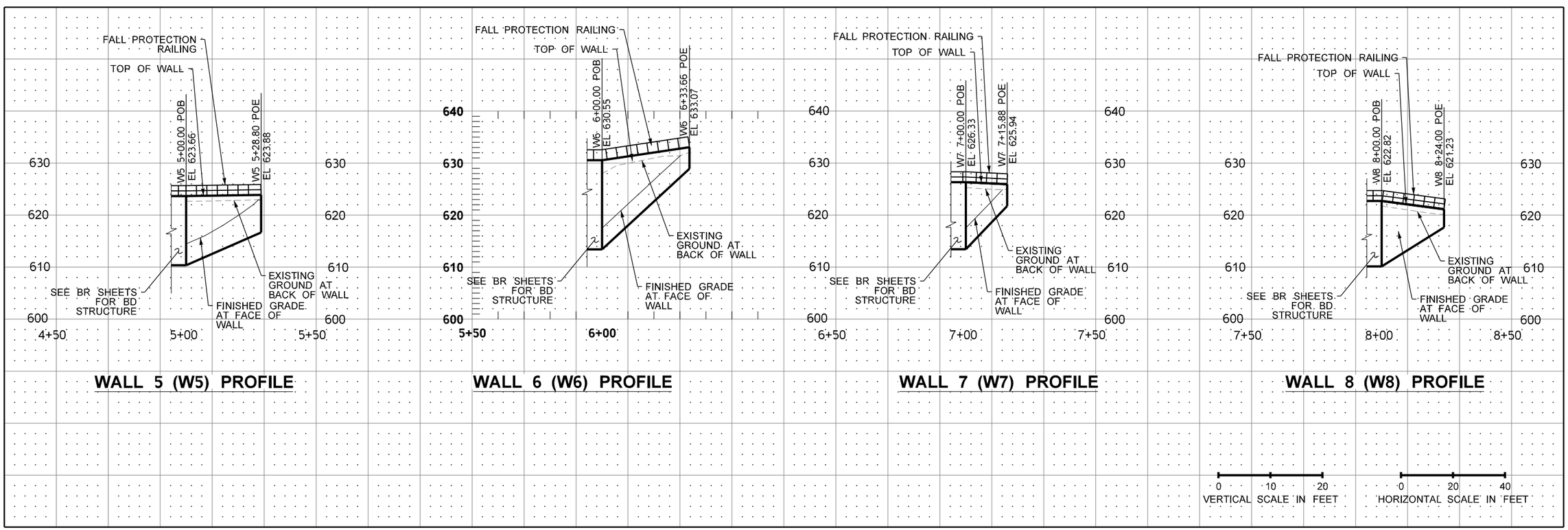
WALL PLAN AND PROFILE

PLAN REF. NO. ST1

SHEET 16 OF 32 SHEETS



WALL PLAN



WALL 5 (W5) PROFILE

WALL 6 (W6) PROFILE

WALL 7 (W7) PROFILE

WALL 8 (W8) PROFILE

FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0219384\XL6133_PS_ST_002.dgn					
TIME	2:13:17 PM					
DATE	12/12/2023					
PLOTTED BY	lsimanek					
DESIGNED BY	A. LANGTRY					
ENTERED BY	A. LANGTRY					
CHECKED BY	V. DELGADO					
PROJ. ENGR.	T. NAU					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

WALL PLAN AND PROFILE

PLAN REF. NO. ST2

SHEET 17 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

LEGEND

CITY/COUNTY RIGHT-OF-WAY	EXISTING DITCH
PROPERTY LINE	EXISTING CREEK THALWEG
EXISTING STREAM BUFFER	WETLAND
OHW ORDINARY HIGH WATER	EXISTING PAVEMENT EDGE
140 EXISTING CONTOUR MAJOR	EXISTING FENCE
EXISTING CONTOUR MINOR	EXISTING GUARDRAIL
200 EXISTING ALIGNMENT	ST EXISTING STORM PIPE
EXISTING NOISE WALL	EXISTING DIRECTION OF FLOW

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219381\XL6133_PS_CE_001.dgn
TIME	2:13:21 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. LANGTRY
ENTERED BY	J. MOHR
CHECKED BY	V. DELGADO
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER XL-6133

CONTRACT NO. | LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

EXISTING CREEK PLAN

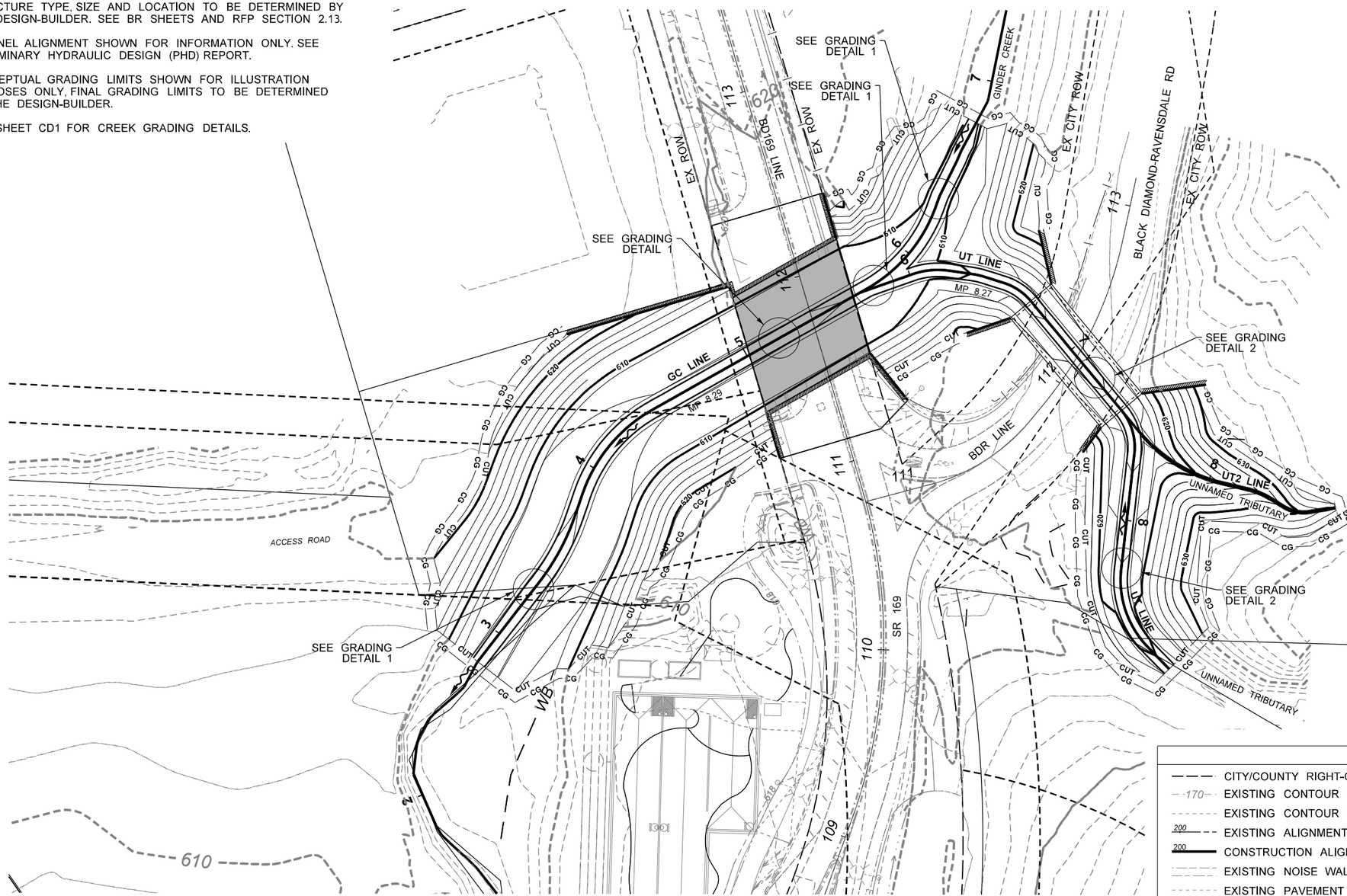
PLAN REF NO CE1

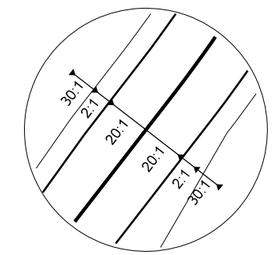
SHEET 18 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

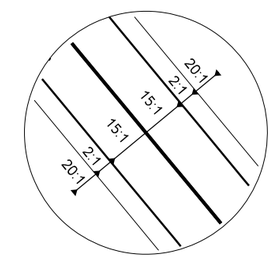
GENERAL NOTES

1. PROPOSED STRUCTURES SHALL NOT ENCROACH INTO THE STRUCTURE FREE ZONE AS DIMENSIONED ON CREEK DETAIL SHEETS.
2. STRUCTURE TYPE, SIZE AND LOCATION TO BE DETERMINED BY THE DESIGN-BUILDER. SEE BR SHEETS AND RFP SECTION 2.13.
3. CHANNEL ALIGNMENT SHOWN FOR INFORMATION ONLY. SEE PRELIMINARY HYDRAULIC DESIGN (PHD) REPORT.
4. CONCEPTUAL GRADING LIMITS SHOWN FOR ILLUSTRATION PURPOSES ONLY, FINAL GRADING LIMITS TO BE DETERMINED BY THE DESIGN-BUILDER.
5. SEE SHEET CD1 FOR CREEK GRADING DETAILS.





GRADING DETAIL 1



GRADING DETAIL 2

0 30 60
SCALE IN FEET

LEGEND

CITY/COUNTY RIGHT-OF-WAY	EXISTING STREAM BANK
170 EXISTING CONTOUR MAJOR	CUT CONCEPTUAL CUT LIMITS
EXISTING CONTOUR MINOR	FILL CONCEPTUAL FILL LIMITS
200 EXISTING ALIGNMENT	CG CONCEPTUAL CLEARING LIMITS
200 CONSTRUCTION ALIGNMENT	STREAM GRADE BREAK
EXISTING NOISE WALL	2:1 SLOPE LINE
EXISTING PAVEMENT EDGE	DIRECTION OF FLOW
NEW STRUCTURE	PROPOSED WINGWALL
WB WETLAND	PROPOSED LWM
EXISTING EASEMENT/ PERMIT	

FILE NAME	c:\caddlib\pw\hntb_lsimanek\west\d0219381\XL6133_PS_CR_001.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	2:13:25 PM				JOB NUMBER XL-6133		
DATE	12/12/2023				CONTRACT NO.		LOCATION NO.
PLOTTED BY	lsimanek						
DESIGNED BY	A. LANGTRY						
ENTERED BY	J. MOHR						
CHECKED BY	V. DELGADO						
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

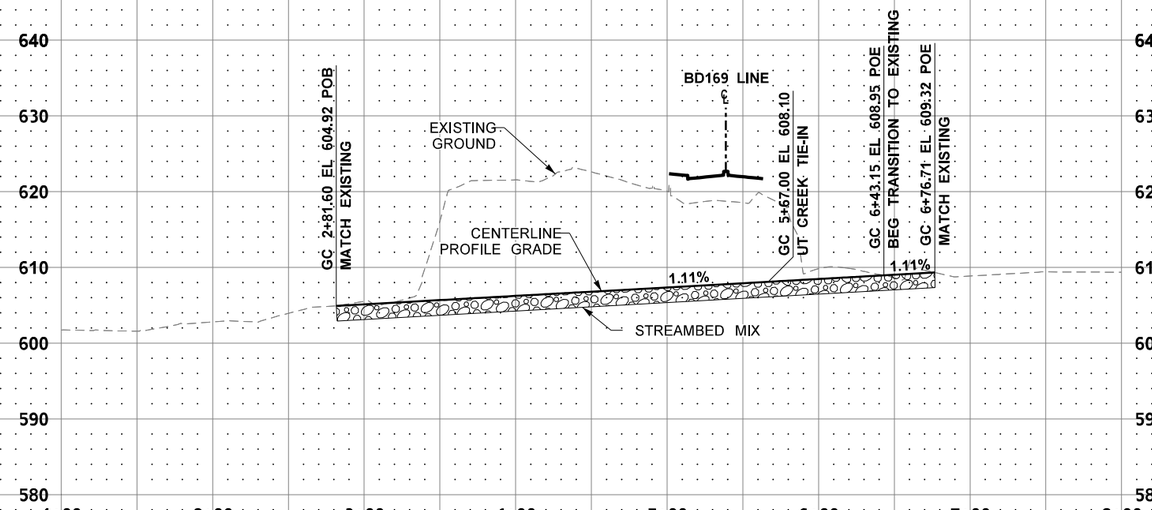
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

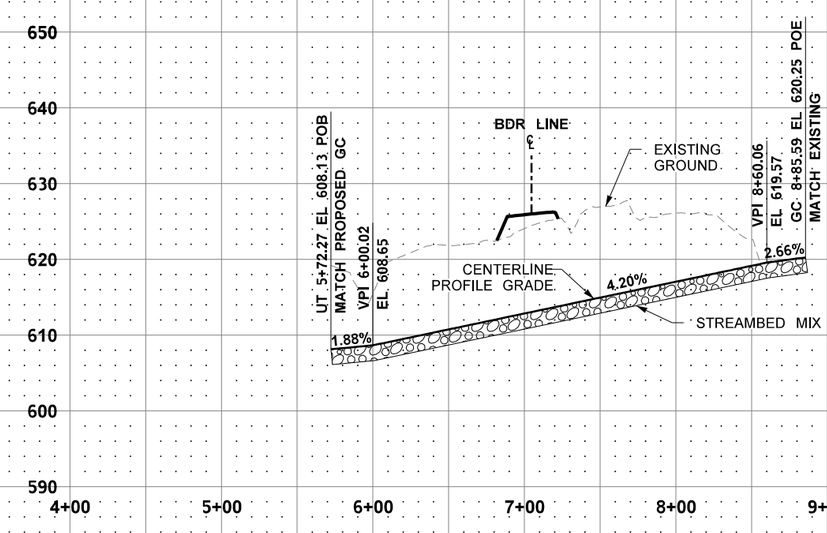
CREEK PLAN

PLAN REF NO CR1

SHEET 19 OF 32 SHEETS



GINDER CREEK GC MP 8.29 PROFILE



UNT TO GINDER CREEK UT MP 8.27 PROFILE

0 10 20
VERTICAL SCALE IN FEET

0 50 100
HORIZONTAL SCALE IN FEET

DATUM
(NAVD) 88

GENERAL NOTES

1. REFERENCE SECTION 2.30 AND APPENDIX H FOR INFORMATION ON STRUCTURE FREE ZONE.

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219381\XL6133_PR_CP_001.DGN
TIME	2:13:31 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. LANGTRY
ENTERED BY	J. MOHR
CHECKED BY	V. DELGADO
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

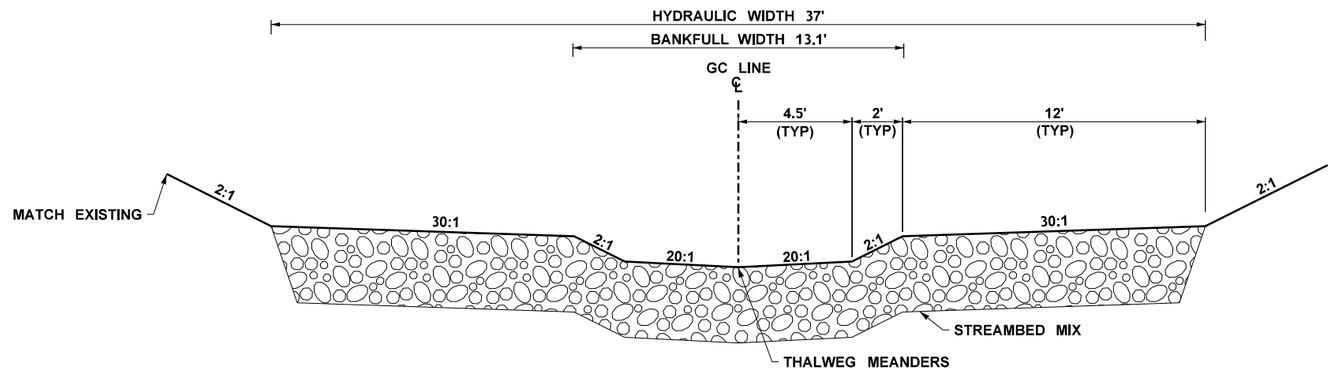
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CREEK PROFILE

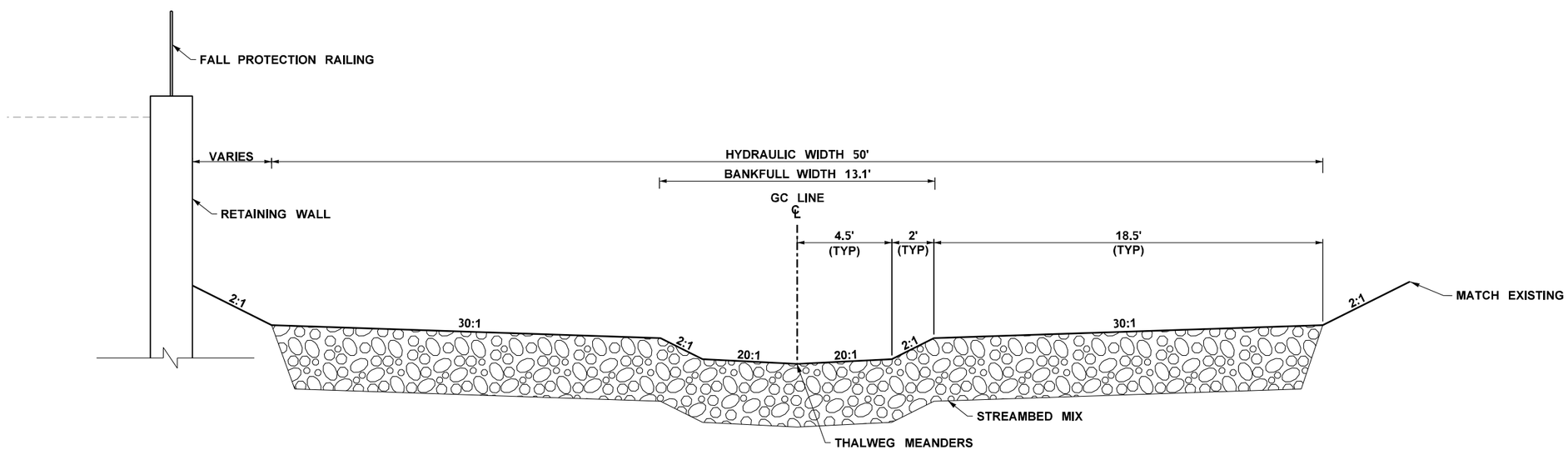
PLAN REF. NO. CP1

SHEET 20 OF 32 SHEETS



GC CHANNEL - TYPICAL SECTION - OPEN CHANNEL

GRADING DETAIL 1



GC COMBINED CHANNEL - TYPICAL SECTION - OPEN CHANNEL

GRADING DETAIL 1

GENERAL NOTES

1. REFERENCE RFP SECTION 2.30 AND APPENDIX H FOR INFORMATION ON STRUCTURE FREE ZONE.

FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0219381\XL6133_DE_CD_001.DGN						
TIME	2:13:34 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6133		
DESIGNED BY	A. LANGTRY						
ENTERED BY	J. MOHR						
CHECKED BY	V. DELGADO				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

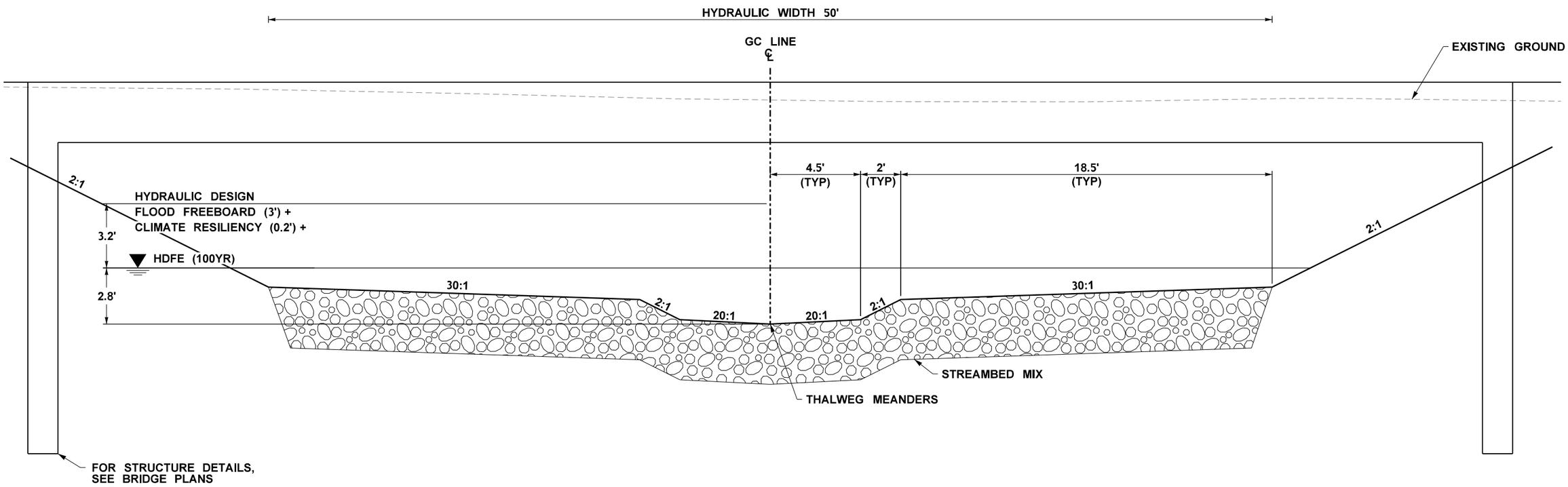
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CREEK DETAILS

PLAN REF NO
CD1

SHEET 21 OF 32 SHEETS



GC COMBINED CHANNEL - TYPICAL SECTION - BD169

GRADING DETAIL 1

GENERAL NOTES

1. REFERENCE RFP SECTION 2.30 AND APPENDIX H FOR INFORMATION ON STRUCTURE FREE ZONE.
2. HDFE = HYDRAULIC DESIGN FLOOD ELEVATION

FILE NAME	c:\caddlib\pw\hntb_lsimanek\west\d0219381\XL6133_DE_CD_002.DGN
TIME	2:13:37 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. LANGTRY
ENTERED BY	J. MOHR
CHECKED BY	V. DELGADO
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

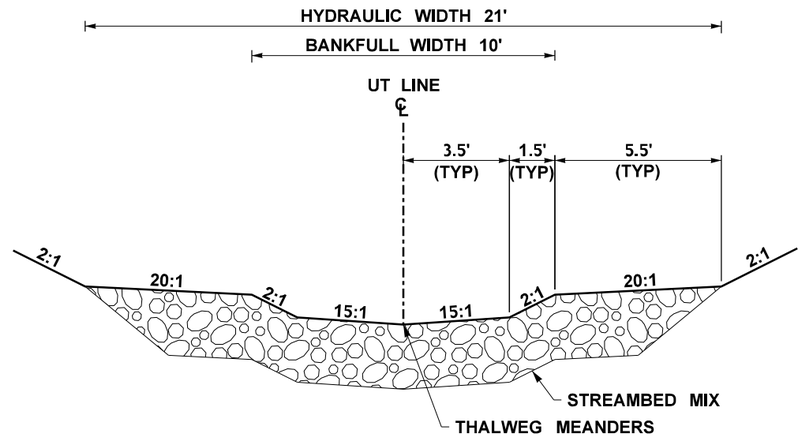
Washington State
Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

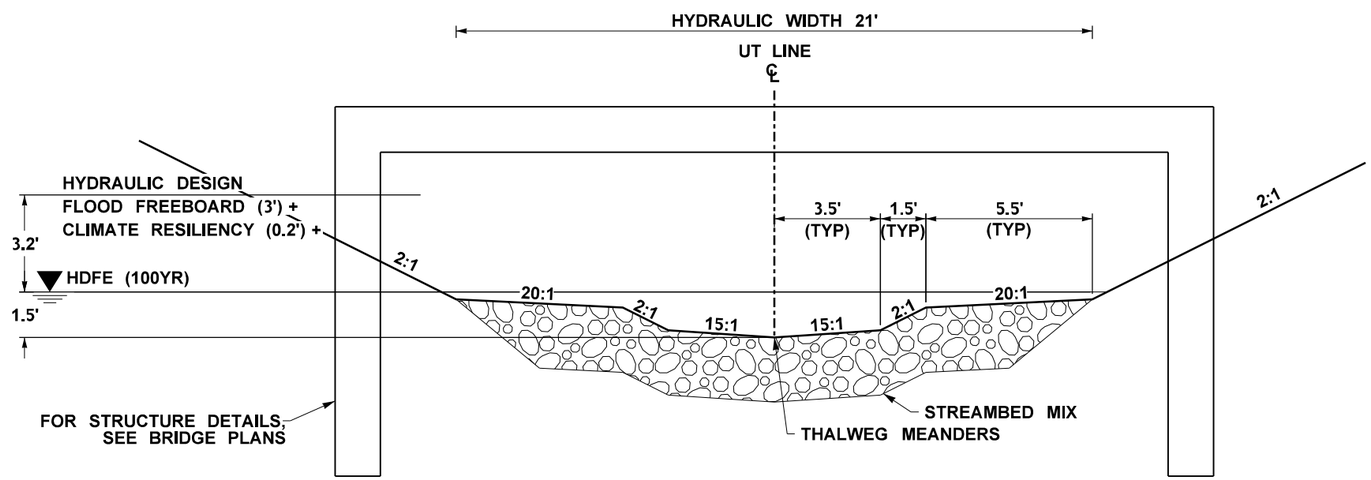
CREEK DETAILS

PLAN REF NO
CD2

SHEET 22 OF 32 SHEETS



UT CHANNEL - TYPICAL SECTION - OPEN CHANNEL
GRADING DETAIL 2



UT CHANNEL - TYPICAL SECTION - BLACK DIAMOND-RAVENSDALE RD
GRADING DETAIL 2

GENERAL NOTES

1. REFERENCE RFP SECTION 2.30 AND APPENDIX H FOR INFORMATION ON STRUCTURE FREE ZONE.
2. HDFE = HYDRAULIC DESIGN FLOOD ELEVATION

FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0219381\XL6133_DE_CD_003.DGN						
TIME	2:13:40 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lsimanek						
DESIGNED BY	A. LANGTRY				JOB NUMBER XL-6133		
ENTERED BY	J. MOHR						
CHECKED BY	V. DELGADO				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

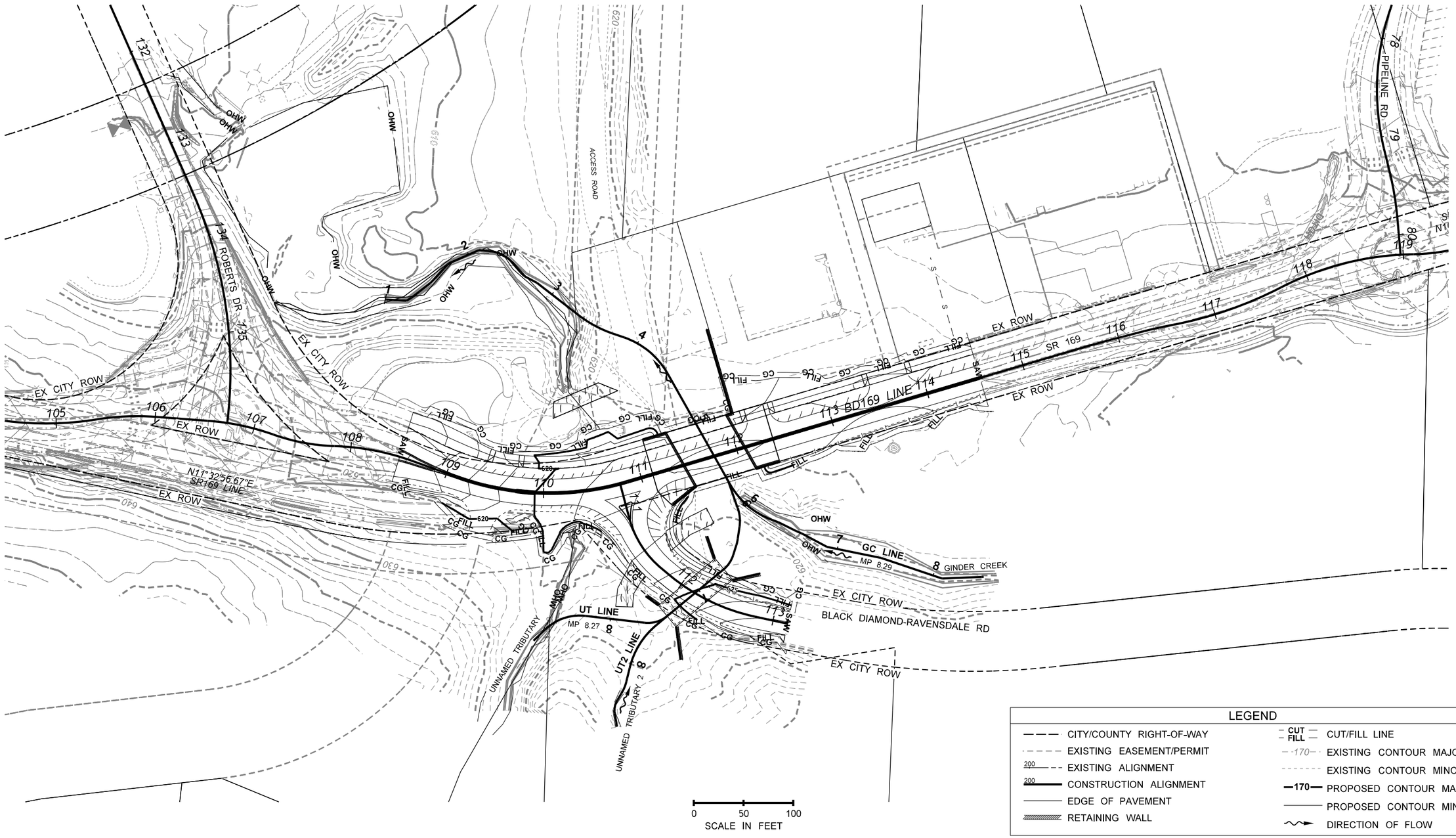
SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CREEK DETAILS

PLAN REF NO CD3

SHEET 23 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.



FILE NAME	c:\caddlib\pw\hntb_lslmanek\west\d0238004\XL6133_PS_CN_001.DGN				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	2:13:45 PM						
DATE	12/12/2023						
PLOTTED BY	lslmanek				JOB NUMBER XL-6133		
DESIGNED BY	A. LANGTRY						
ENTERED BY	J. MOHR						
CHECKED BY	V. DELGADO				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

GRADING PLAN

PLAN REF NO CN1

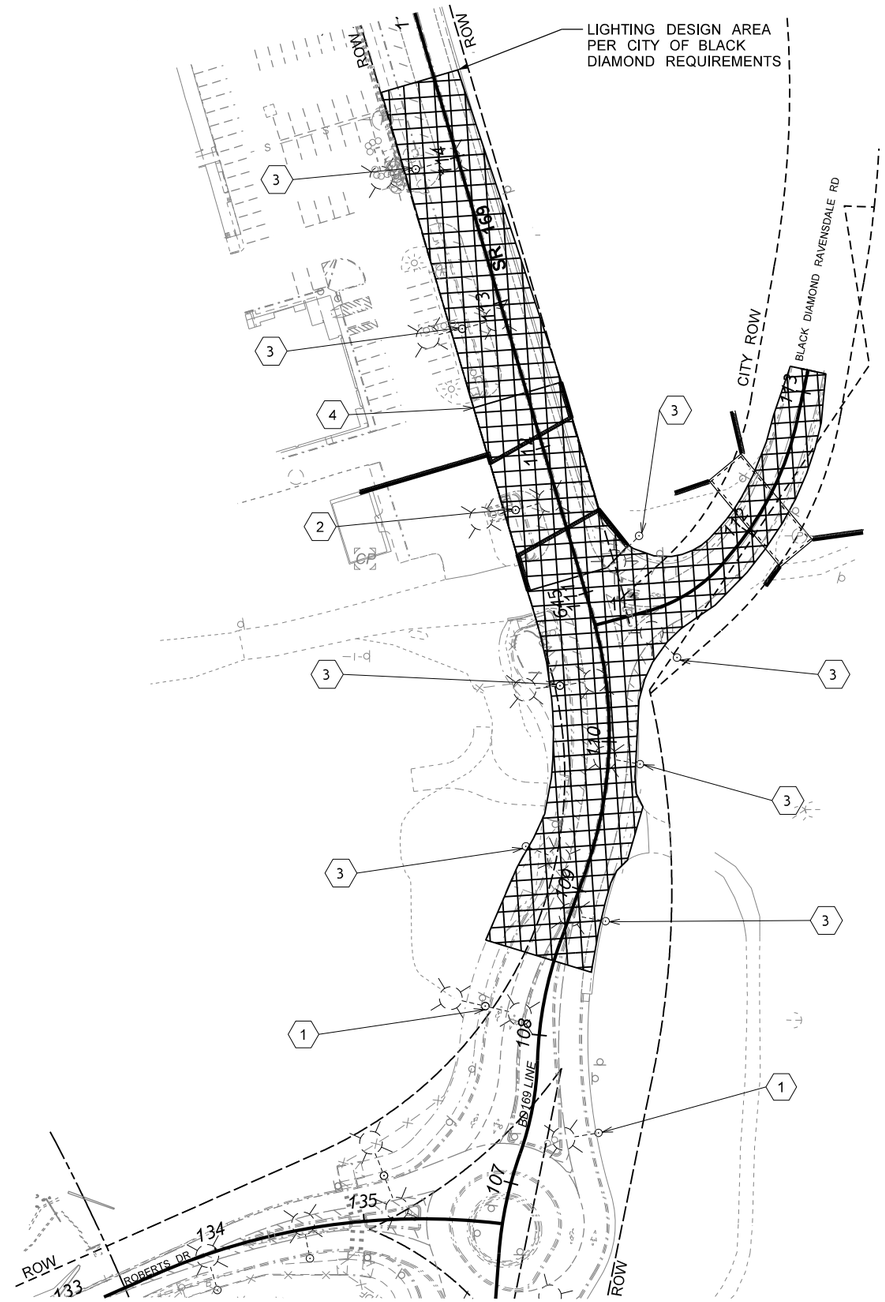
SHEET 24 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

LEGEND	
EXISTING	NEW
	LIGHT STANDARD SINGLE
	LIGHT STANDARD DOUBLE
	STREET SCALE LIGHTING DESIGN AREA

NOTES

1. PROTECT EXISTING LIGHT STANDARD AND LUMINAIRE DURING CONSTRUCTION
2. REMOVE AND REPLACE EXISTING LIGHT STANDARD AND LUMINAIRE WITH NEW LIGHT STANDARDS AND LUMINAIRES, ASSOCIATED CONDUIT, WIRES, AND JUNCTION BOXES IF IMPACTED DURING CONSTRUCTION OR MOT STAGES. NEW LUMINAIRE SHALL BE INSTALLED ON BRIDGE IN ACCORDANCE WITH WSDOT STANDARDS
3. REMOVE AND REPLACE EXISTING LIGHT STANDARD AND LUMINAIRES AND ASSOCIATED CONDUIT, WIRES, AND JUNCTION BOXES IF IMPACTED DURING CONSTRUCTION OR MOT STAGES. NEW LIGHT STANDARD, LUMINAIRE, AND ASSOCAITED CONDUIT, WIRES, AND JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BLACK DIAMOND STANDARDS
4. INSTALL (2) 2" SPARE CONDUITS AND NEMA 4X JUNCTION BOXES THROUGH EACH SIDE OF THE BRIDGE PER WSDOT STANDARD J-60.11-00, J-60.12-00, AND STRUCTURAL DETAILS



N

0 50 100
SCALE IN FEET

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219382\XL6133_PS_IL_001.DGN
TIME	2:13:50 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	H. HULBERT
ENTERED BY	H. HULBERT
CHECKED BY	A. GOROVAYA
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

ILLUMINATION PLAN

PLAN REF NO IL1

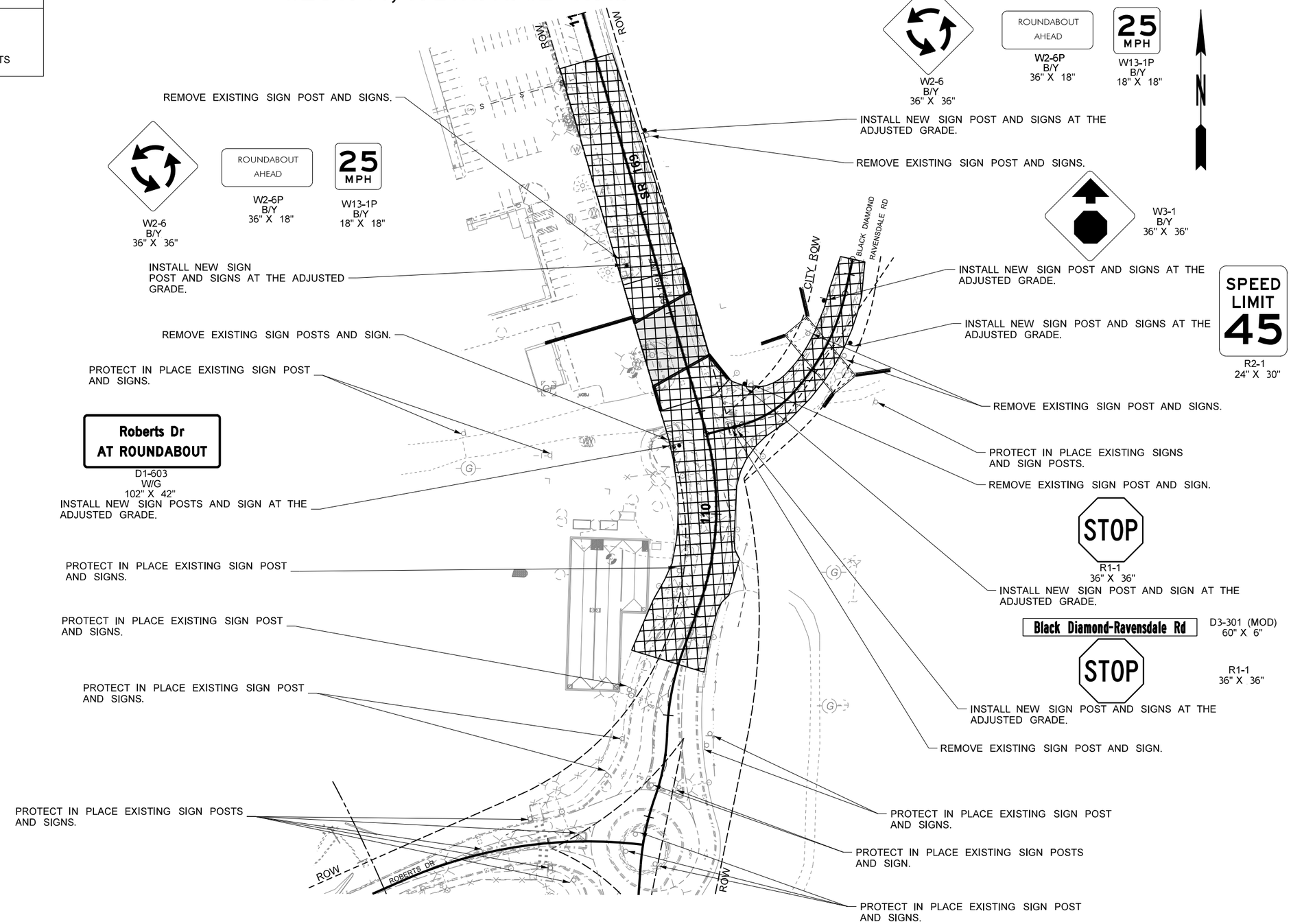
SHEET 25 OF 32 SHEETS

SECT. 11, T. 21N. R. 6E W.M.

SIGNING LEGEND		
EXISTING	NEW	
		SIGN
		SIGN WITH DOUBLE POSTS

GENERAL NOTES:

1. REMOVAL AND REPLACEMENT OF SIGNING DESIGN ELEMENTS ARE BASED ON DIRECT IMPACTS SHOWN IN THE CONCEPTUAL PLANS FOR FISH PASSAGE STRUCTURE CONSTRUCITON AND THE MANAGEMENT OF TRAFFIC (MOT) PHASING.



FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0219383\XL6133_PS_SN_001.DGN				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	2:13:54 PM				JOB NUMBER XL-6175		
DATE	12/12/2023				CONTRACT NO.		LOCATION NO.
PLOTTED BY	lsimanek						
DESIGNED BY	A. CHAN						
ENTERED BY	H. HULBERT						
CHECKED BY	S. ELBASSUONI						
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

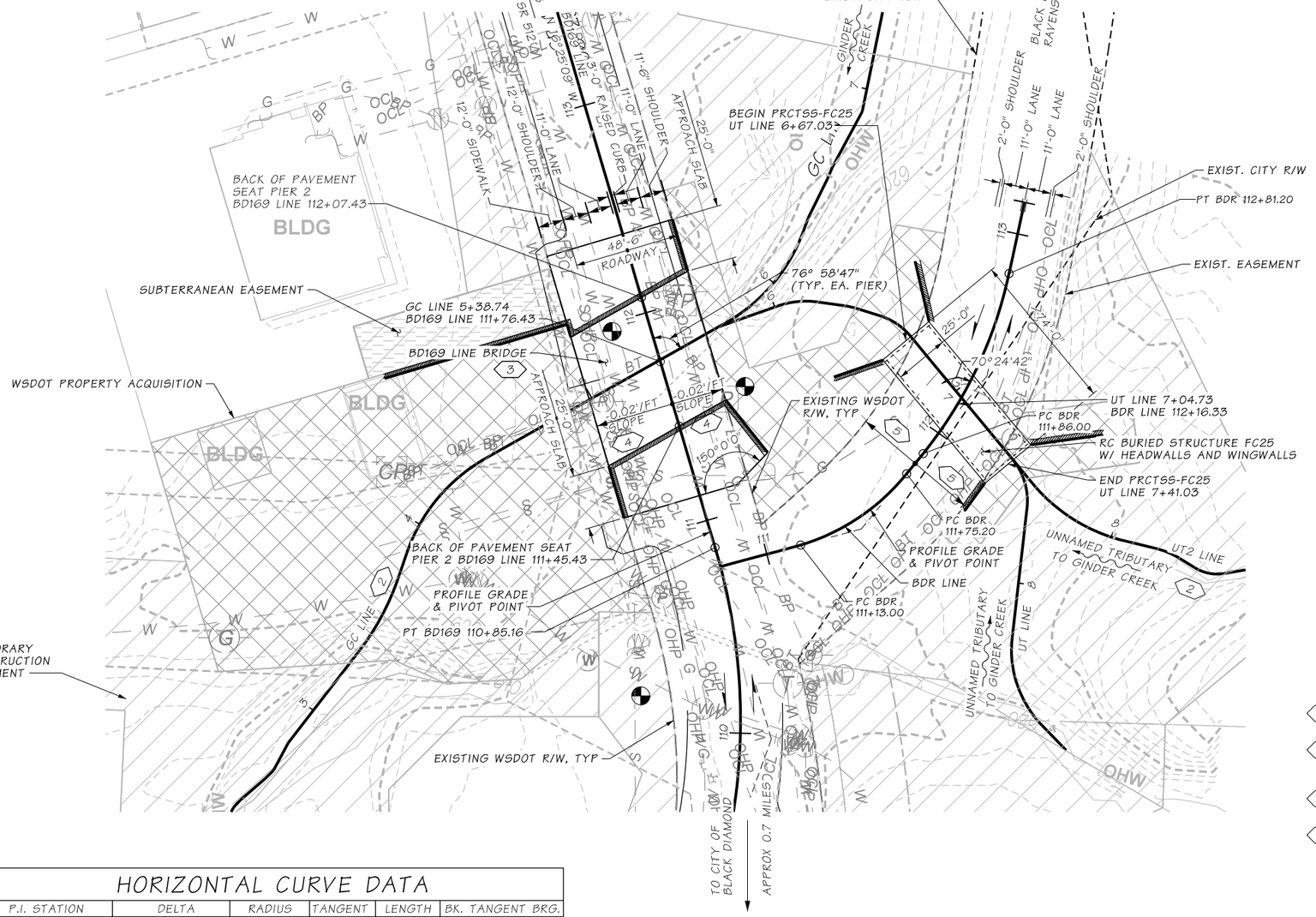
SIGNING PLAN

PLAN REF NO SN1

SHEET 26 OF 32 SHEETS

SEC. 11, T. 21N. R. 6E. W.M.
CITY OF BLACK DIAMOND

SR 169



PLAN

BEARING OF UT LINE WALLS IS S 39°38'45" E
BEARING OF GC LINE PIERS IS N 60°38'38" E

HORIZONTAL CURVE DATA

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
BD169 110+00.81	39°12'37" LT.	276.50'	90.40'	174.75'	N 19°47'28" E
GC 4+15.82	41°30'58" RT.	80.00'	30.32'	57.97'	N 19°02'41" E
GC 6+00.61	40°34'07" LT.	80.00'	29.57'	56.64'	N 60°33'38" E
UT 6+11.23	27°42'06" RT.	40.00'	9.86'	19.34'	N 70°32'33" E
UT 6+36.12	9°15'58" RT.	40.00'	3.24'	6.47'	S 81°45'21" E
UT 6+58.78	32°50'38" RT.	30.00'	8.84'	17.20'	S 72°29'23" E
UT 7+53.72	46°10'25" RT.	30.00'	12.79'	24.17'	S 39°38'45" E
BDR 111+45.12	35°39'03" LT.	100.00'	32.16'	62.22'	N 75°06'12" E
BDR 112+34.54	27°16'44" LT.	200.00'	48.53'	95.22'	N 39°27'09" E

DATUM

NAVD 88

NOTES:

1. BARRIER, GUARDRAIL, AND TERMINALS NOT SHOWN AND SHALL BE PROVIDED AS REQUIRED PER THE RFP.
2. FOR GC LINE AND UT LINE ALIGNMENTS SEE CREEK ALIGNMENT PLANS.
3. 62'-0" BK. TO BK. OF PAVEMENT SEAT WITH 24" VOIDED SLABS, 5" MIN. CIP DECK, 10' CURTAIN WALLS, AND APPROACH SLABS.
4. ON BRIDGE AND APPROACH SLABS, SEE ROADWAY PLANS FOR DETAILS
5. VARIES, SEE ROADWAY PLANS

ASSUMED
PRECAST PRESTRESSED VOIDED SLAB
(24" VOIDED SLAB)
W/5" MIN CIP DECK
BURIED STRUCTURE FC25
LOADING: HL-93

SEISMIC OPERATIONAL CLASSIFICATION: ORDINARY (GC LINE AND UT LINE STRUCTURES)

CONCEPTUAL - NOT FOR CONSTRUCTION

FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0219384\XL6133_PS_BG_001.dgn						
TIME	2:13:58 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6133		
DESIGNED BY	A. D'ONOFRIO						
ENTERED BY	A. TUBIS				CONTRACT NO.		LOCATION NO.
CHECKED BY	K. LINTS						
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CONCEPTUAL
BRIDGE PLAN - LAYOUT

PLAN REF NO BG1

SHEET 27 OF 32 SHEETS

SEC. 11, T. 21N. R. 6E. W.M.
CITY OF BLACK DIAMOND

SR-169

PLAN

LEGEND:

- WATER METER BOX
- WATER VALVE
- WATER MANHOLE
- HYDRANT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEAN OUT
- POWER POLE
- TELEPHONE BOX
- TELEPHONE POLE
- CABLE PEDESTAL
- UTILITY POLE
- DOWN GUY ANCHOR
- POWER VAULT
- UTILITY MANHOLE
- UTILITY VAULT
- GAS VALVE BOX
- GUY POLE
- MONITOR WELL
- LIGHT POLE
- GEOTECHNICAL BORING
- STORM MANHOLE

- W — — W — WATER LINE
- S — — S — SANITARY SEWER LINE
- OHP — — OHP - OVERHEAD POWER LINE
- OCL — — OCL - OVERHEAD COMMUNICATION LINE
- BT — — BT — UNDERGROUND TELEPHONE CABLE
- BF — — BF — UNDERGROUND FIBER OPTIC
- G — — G — GAS LINE
- BP — — BP — UNDER GROUND POWER LINE
- DP — — DP — DRAIN PIPE
- ST — — ST — STORM SEWER LINE

ζ EXISTING CULVERT TO BE REMOVED PER DRAINAGE PLANS

Ω EXISTING CULVERT TO BE ABANDONED PER DRAINAGE PLANS

NOTES:

1. SEE APPENDIX U UTILITY SUMMARY FOR ADDITIONAL INFORMATION.

CONCEPTUAL - NOT FOR CONSTRUCTION

FILE NAME	c:\caddlib\pw\hntb_lsimanek\west\d0219384\XL6133_PS_BG_002.dgn						
TIME	2:14:02 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lsimanek						
DESIGNED BY	A. D'ONOFRIO				JOB NUMBER XL-6133		
ENTERED BY	A. TUBIS						
CHECKED BY	C. HOVELL				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

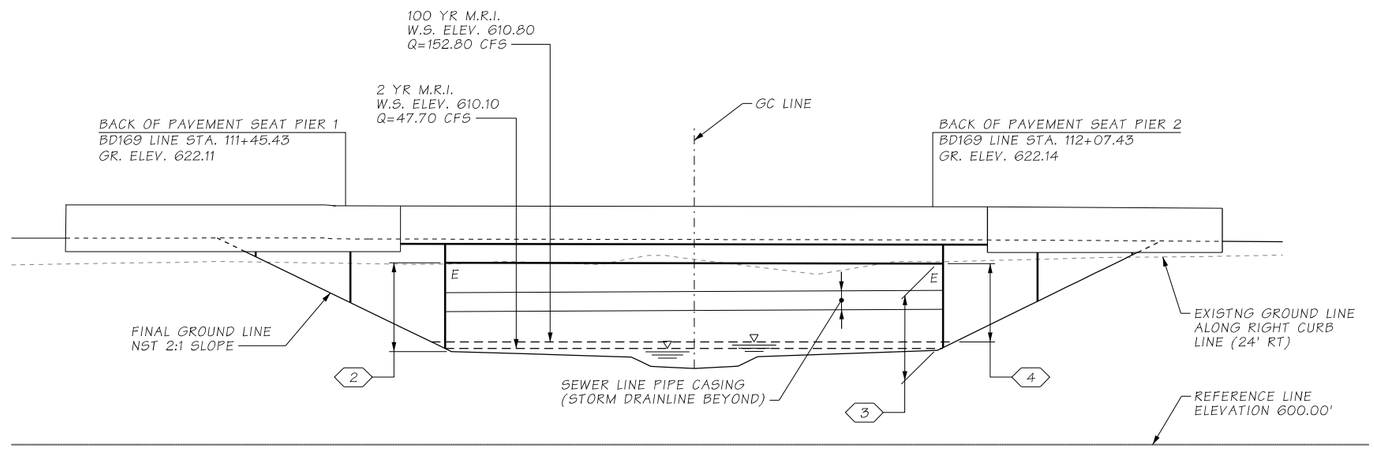
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CONCEPTUAL
BRIDGE PLAN - UTILITIES

PLAN REF NO BG2

SHEET 28 OF 32 SHEETS



ELEVATION - GC @ BD169 LINE BRIDGE

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP
OF BRIDGE DECK ON SR169 LINE AND ARE EQUAL TO PROFILE GRADE
SEE DESIGN MANUAL EXHIBIT 720-4
FOR EMBANKMENT DETAILS AT BRIDGE ENDS

NOTES:

1. ALL CLEARANCES PROVIDED ARE CLAEARANCES TO THE CONCEPTUAL DESIGN STRUCTUTE AND ARE NOT RELATED TO THE SFZ OR OTHER REQUIRED CLEARANCES.

2. 9.2' VERT. CLR. TO FINISH GRADE BELOW THE STRUCTURE

3. 9.1' VERT. CLR. TO FINSH GRADE BELOW THE STRUCTURE.

4. 8.6' MIN. VERT. CLR. TO 100 YR M.R.I. W.S. ELEV.

DATUM

NAVD 88

CONCEPTUAL - NOT FOR CONSTRUCTION

FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0219384\XL6133_PS_BG_003.dgn						
TIME	2:14:05 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6133		
DESIGNED BY	A. D'ONOFRIO						
ENTERED BY	A. TUBIS						
CHECKED BY	K. LINTS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL
DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

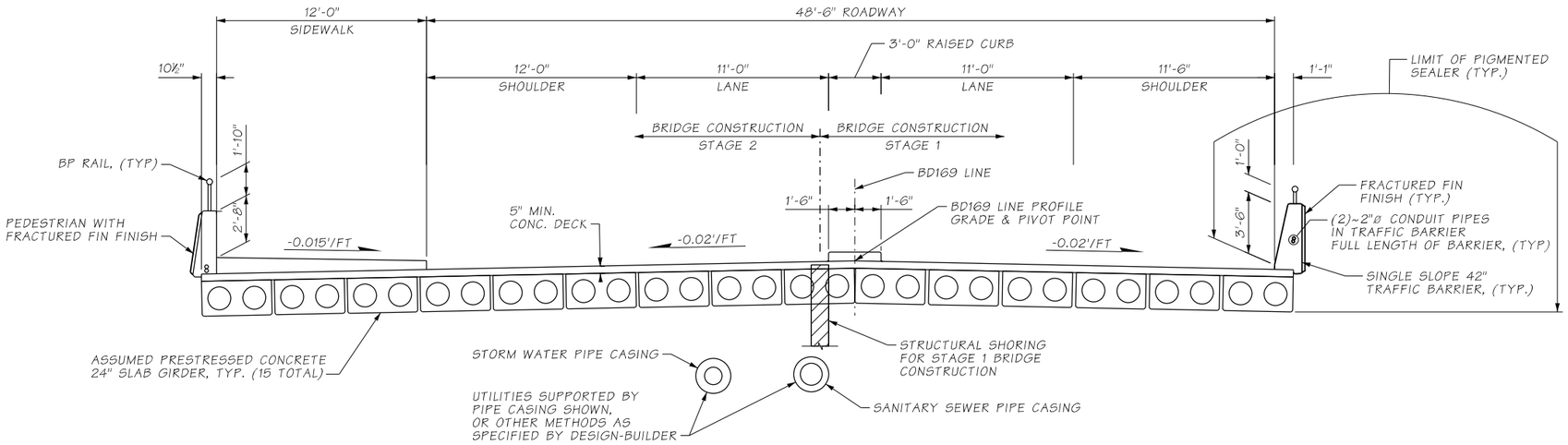
Washington State
Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

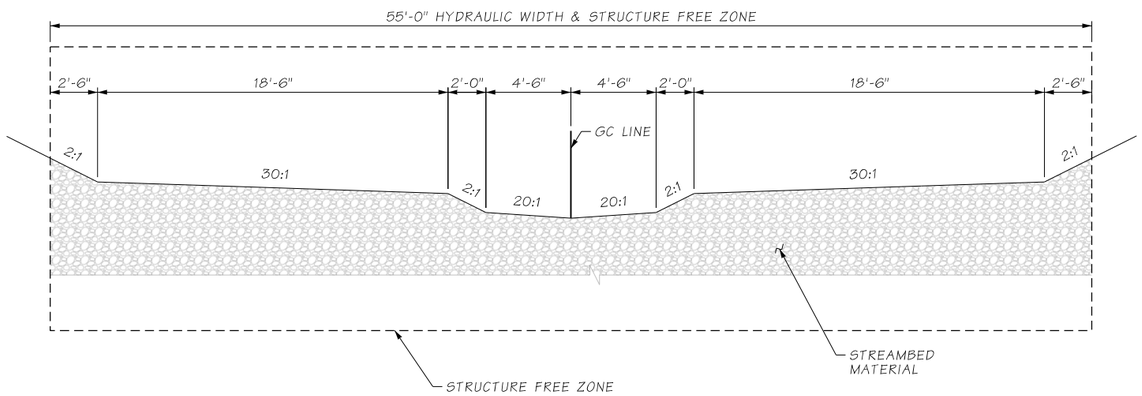
CONCEPTUAL
ELEVATION - BD169 LINE BRIDGE

PLAN REF NO
BG3

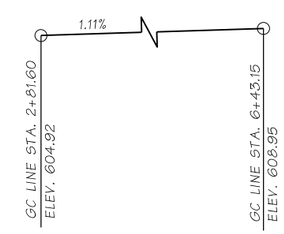
SHEET 29 OF 32 SHEETS



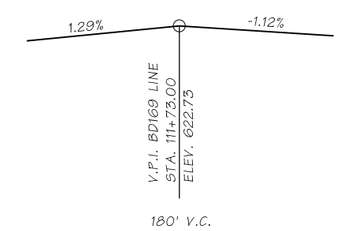
TYPICAL SECTION - BD169 LINE BRIDGE
GINDER CREEK
SHOWN NEAR MIDSPAN



TYPICAL GINDER CREEK CROSS SECTION
DIMENSION MEASURED NORMAL TO GC LINE



GC LINE PROFILE



BD169 LINE PROFILE

CONCEPTUAL - NOT FOR CONSTRUCTION

FILE NAME	c:\caddIIb\pw\hntb_lsimanek\west\d0219384\XL6133_PS_BG_004.dgn
TIME	2:14:08 PM
DATE	12/12/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. D'ONOFRIO
ENTERED BY	A. TUBIS
CHECKED BY	K. LINTS
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6133		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

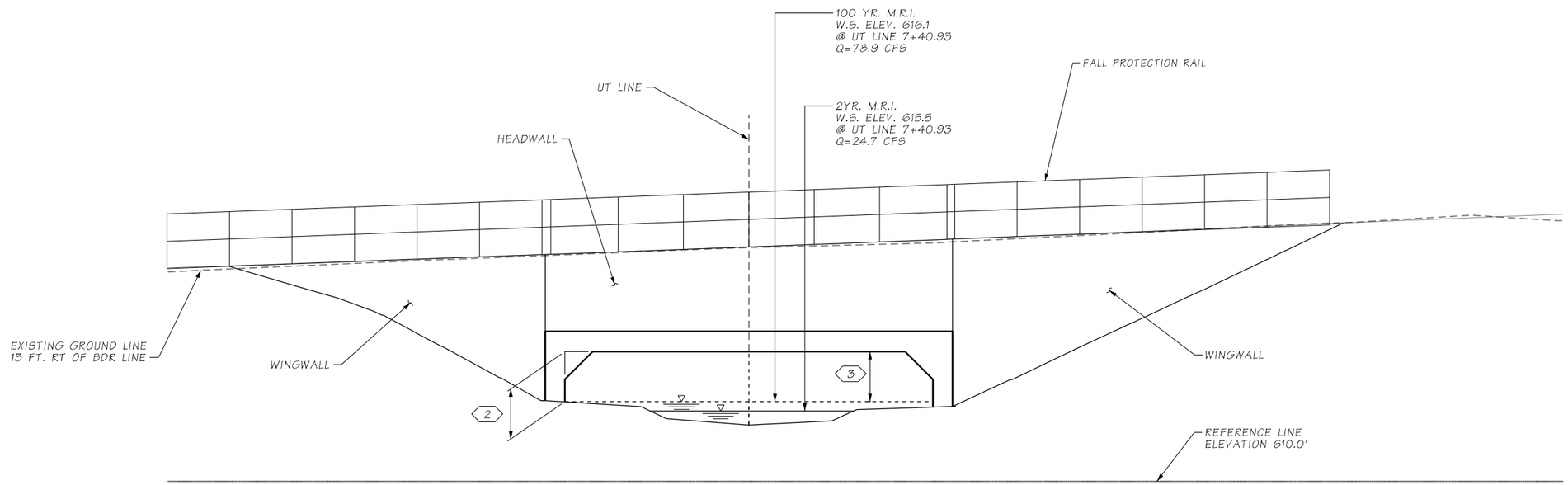
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CONCEPTUAL TYPICAL BRIDGE SECTION - BD169 LINE

PLAN REF NO BG4

SHEET 30 OF 32 SHEETS



ELEVATION - UT @ BDR LINE BURIED STRUCTURE

NOTES:

1. ALL CLEARANCES PROVIDED ARE CLEARANCES TO THE CONCEPTUAL DESIGN STRUCTURE AND ARE NOT RELATED TO THE SFZ OF OTHER REQUIRED CLEARANCES.

2. 3.20' VERTICAL CLEARANCE TO FINISH GRADE BELOW THE TOP OF THE BURIED STRUCTURE. AT THE EDGE OF THE HYDRAULIC WIDTH.

3. 2.8' MINIMUM VERTICAL CLEARANCE FROM THE INSIDE OF THE BURIED STRUCTURE TO 100 YR M.R.I. W.S. ELEVATION.

DATUM
NAVD 88

CONCEPTUAL - NOT FOR CONSTRUCTION

FILE NAME	c:\caddlib\pw\hntb_lsimanek\west\d0219384\XL6133_PS_BG_005.dgn						
TIME	2:14:11 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6133		
DESIGNED BY	A. D'ONOFRIO						
ENTERED BY	A. TUBIS						
CHECKED BY	K. LINTS				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

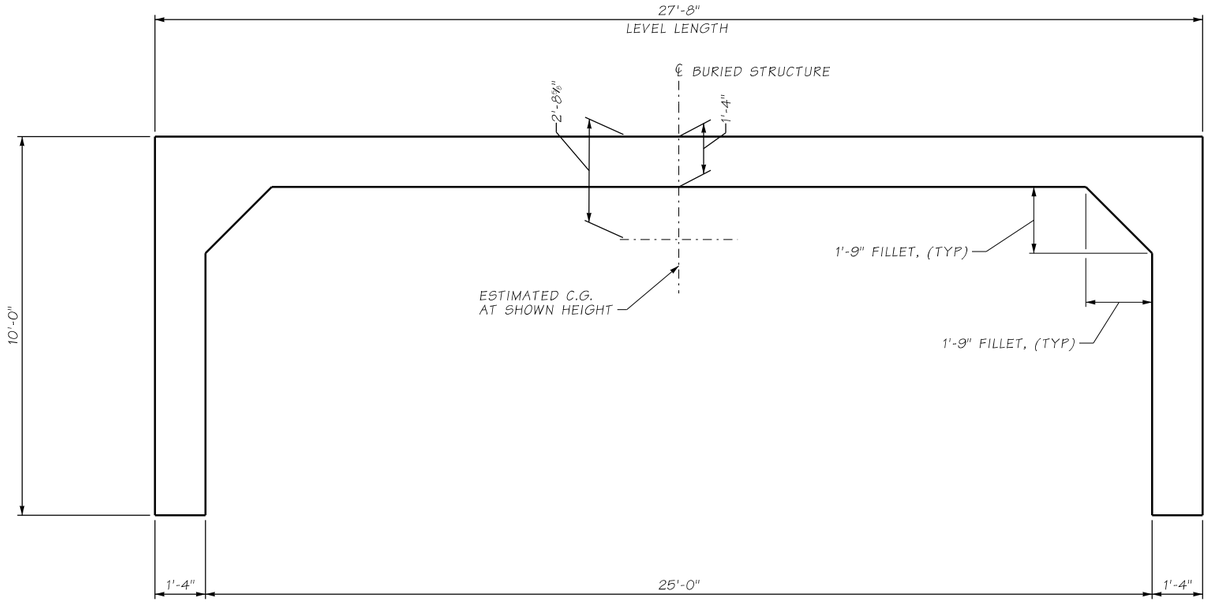
Washington State Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CONCEPTUAL ELEVATION
UT @ BDR LINE BURIED STRUCTURE

PLAN REF NO
BG5

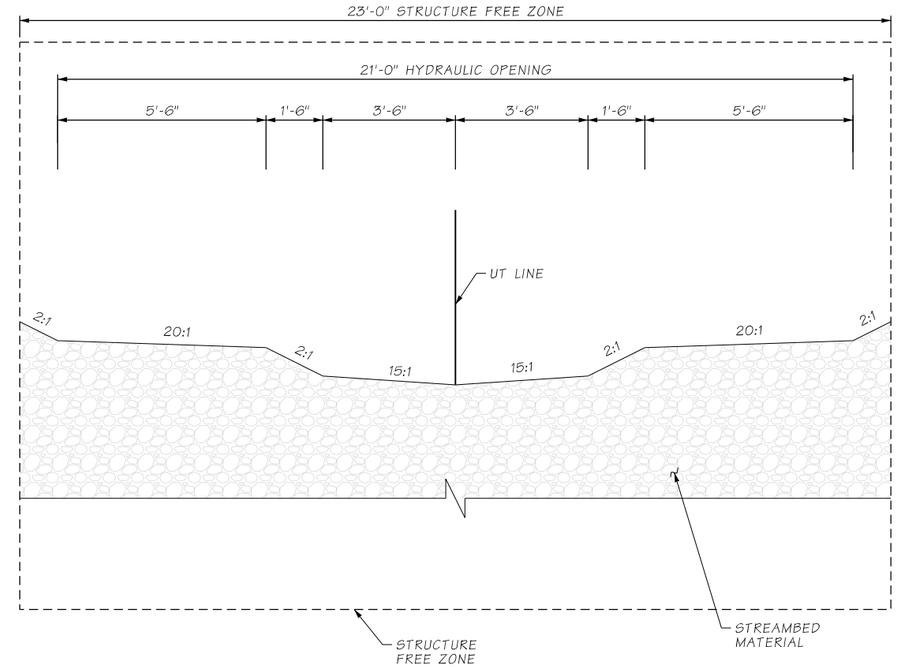
SHEET 31 OF 32 SHEETS



TYPICAL BURIED STRUCTURE CROSS SECTION - UT @ BDR LINE
UNNAMED TRUBUTARY TO GINDER CREEK

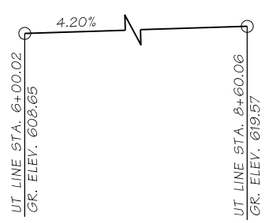
ALL DIMENSIONS ARE SYMMETRICAL ON LEFT AND RIGHT SIDES

WALL, WALL FOOTING, AND FOUNDATION TYPE NOT SHOWN

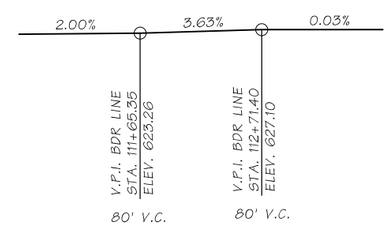


TYPICAL UNNAMED TRIBUTARY
TO GINDER CREEK CROSS SECTION

DIMENSION MEASURED NORMAL TO UT LINE



UT LINE PROFILE



BDR LINE PROFILE

CONCEPTUAL - NOT FOR CONSTRUCTION

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0219384\XL6133_PS_BG_006.dgn						
TIME	2:14:13 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	12/12/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6133		
DESIGNED BY	A. D'ONOFRIO						
ENTERED BY	A. TUBIS				CONTRACT NO.		LOCATION NO.
CHECKED BY	K. LINTS						
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL
DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation
HNTB

SR 169 & SR 509
FISH PASSAGE
SR 169 GINDER CREEK

CONCEPTUAL TYPICAL SECTION
UT @ BDR LINE BURIED STRUCTURE

PLAN REF NO
BG6

SHEET
32
OF
32
SHEETS