DRAFT
Conceptual Plans

Volume 1 of 1

I-90 **MP 13.83**
LEWIS CREEK
FISH PASSAGE - WDFW ID 992798

KING COUNTY
A STATE PROJECT

Washington State
Department of Transportation

INDEX

SHEET NO.	PLAN REFERENCE NO.	TITLE
1	IN1	INDEX
2	VM1	VICINITY MAP
3 - 6	RS1 - RS4	ROADWAY SECTIONS
7 - 8	AL1 - AL2	ALIGNMENT PLAN
9	AL3	CREEK ALIGNMENT PLAN
10	AL4	PROPOSED EASEMENT PLANS
11	EU1	EXISTING UTILITIES
12 - 16	RP1 - RP5	ROADWAY PROFILES
17 - 18	PV1 - PV2	PAVING PLAN
19	RD1	DRIVEWAY PLAN AND PROFILE
20 - 22	DR1 - DR3	DRAINAGE PLAN
23	ST1	WALL PLAN AND PROFILE
24	ST2	NOISE BARRIER WALL 4A PLAN AND PROFILE
25	ST3	NOISE BARRIER WALL 5A PLAN AND PROFILE
26 - 27	CE1 - CE2	EXISTING CREEK PLAN
28 - 29	CR1 - CR2	CREEK PLAN
30 - 31	CP1 - CP2	CREEK PROFILE
32 - 33	CD1 - CD2	CREEK DETAILS
34 - 35	CN1 - CN2	GRADING PLANS
36 - 37	IL1 - IL2	ILLUMINATION PLAN
38 - 40	TS1 - TS3	ITS PLAN
41 - 43	SN1 - SN3	SIGNING PLAN
44	BG1	CONCEPTUAL BRIDGE PLAN - LAYOUT
45	BG2	CONCEPTUAL BRIDGE ELEVATION - NEWPORT WAY SE
46	BG3	CONCEPTUAL BRIDGE SECTION & PROFILE - NEWPORT WAY SE
47	BG4	CONCEPTUAL BRIDGE ELEVATION - I-90 EASTBOUND
48	BG5	CONCEPTUAL BRIDGE SECTIONS & PROFILES - I-90
49	BG6	CONCEPTUAL BRIDGE SECTION & PROFILE - WLSP

INDEX

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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-6703

CONTRACT NO. | LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE

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DATE

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Washington State Department of Transportation

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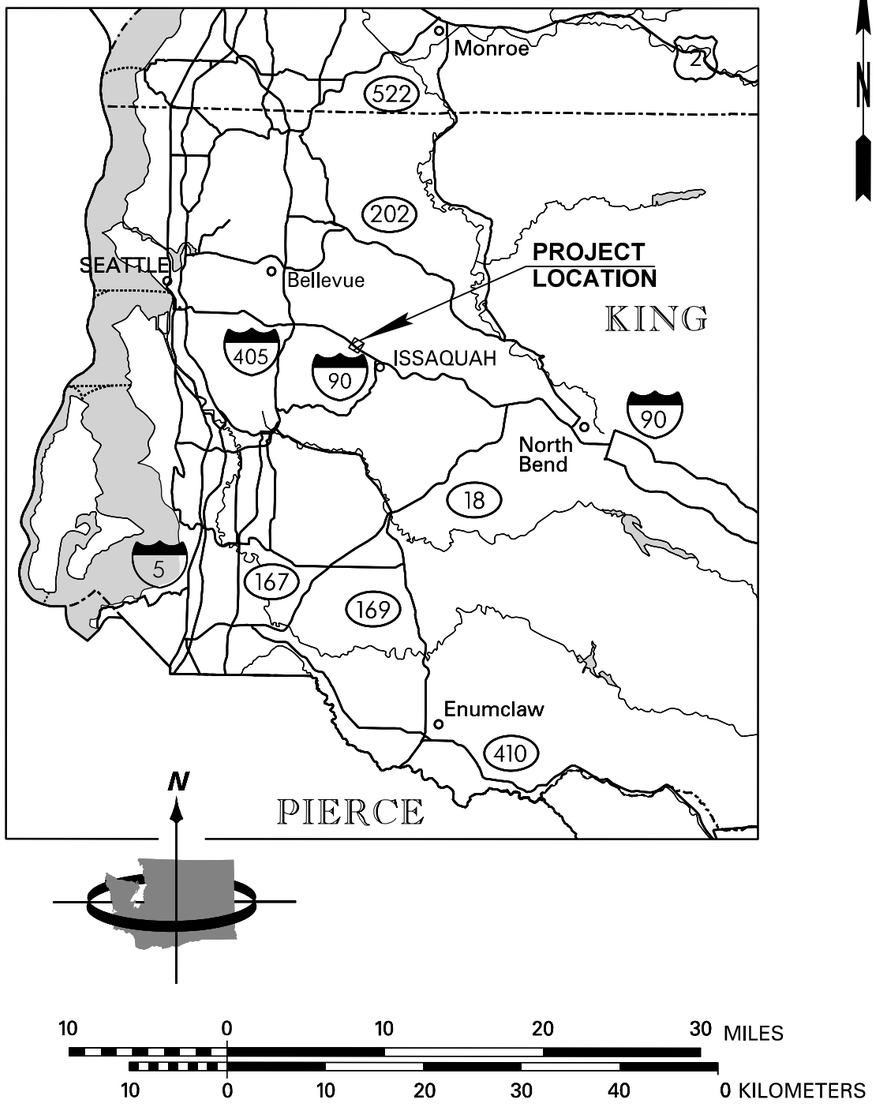
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

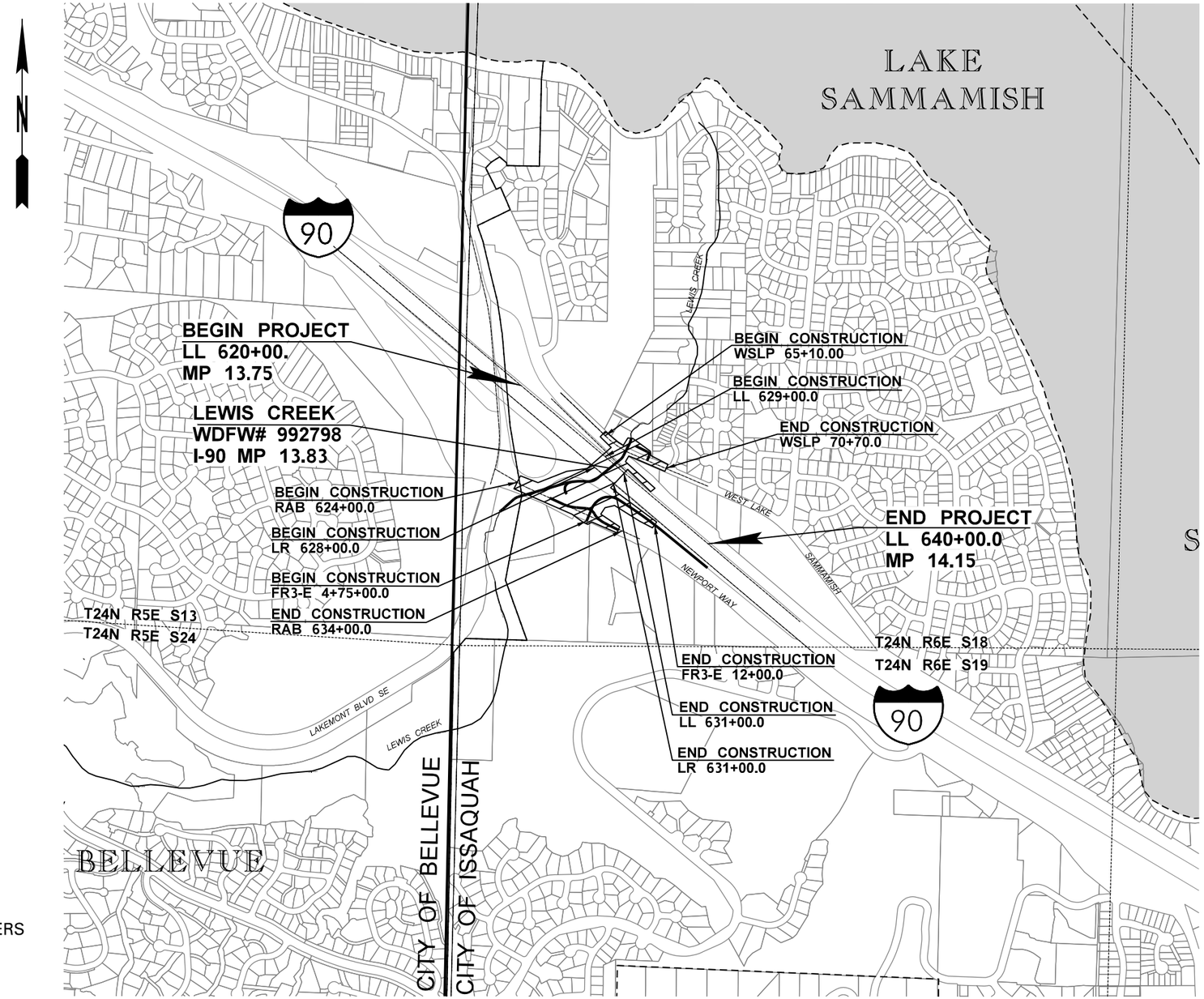
INDEX

PLAN REF NO IN1

SHEET 1 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.





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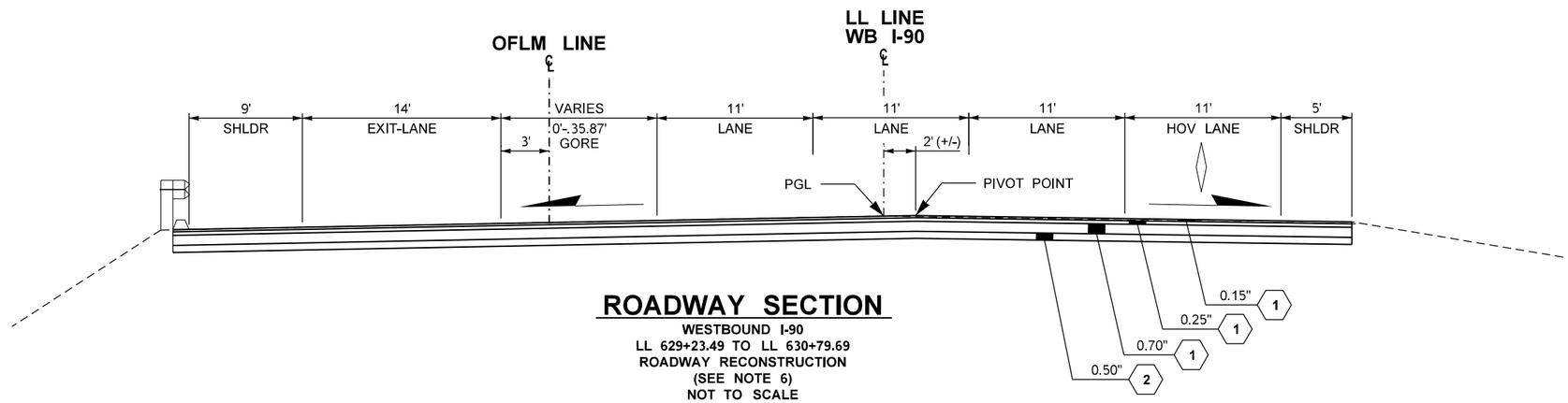
I-90 LEWIS CREEK

VICINITY MAP

PLAN REF NO
VM1

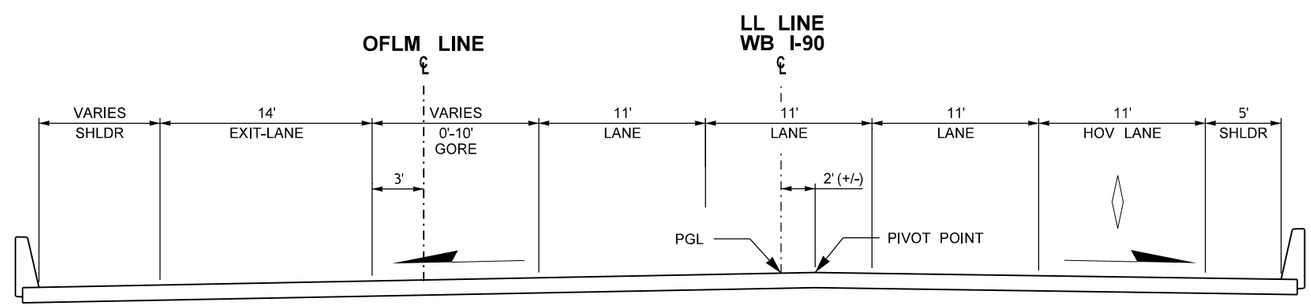
SHEET 2 OF 49 SHEETS

LEGEND	
1	HMA CLASS 1/2" PG 58H-22
2	CRUSHED SURFACING BASE COURSE



ROADWAY SECTION

WESTBOUND I-90
LL 629+23.49 TO LL 630+79.69
ROADWAY RECONSTRUCTION
(SEE NOTE 6)
NOT TO SCALE



BRIDGE SECTION

WESTBOUND I-90
LL 629+65.03 TO LL 630+35.03 BRIDGE
(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-RP5 FOR ROADWAY PROFILES.
6. DESIGN-BUILDER TO SAWCUT EXISTING PAVEMENT AS REQUIRED TO CONSTRUCT NEW STRUCTURES. SEE PAVEMENT DESIGN REPORT.

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DESIGNED BY	L. JOHNSON						
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CHECKED BY	J. CHEUNG				CONTRACT NO.		LOCATION NO.
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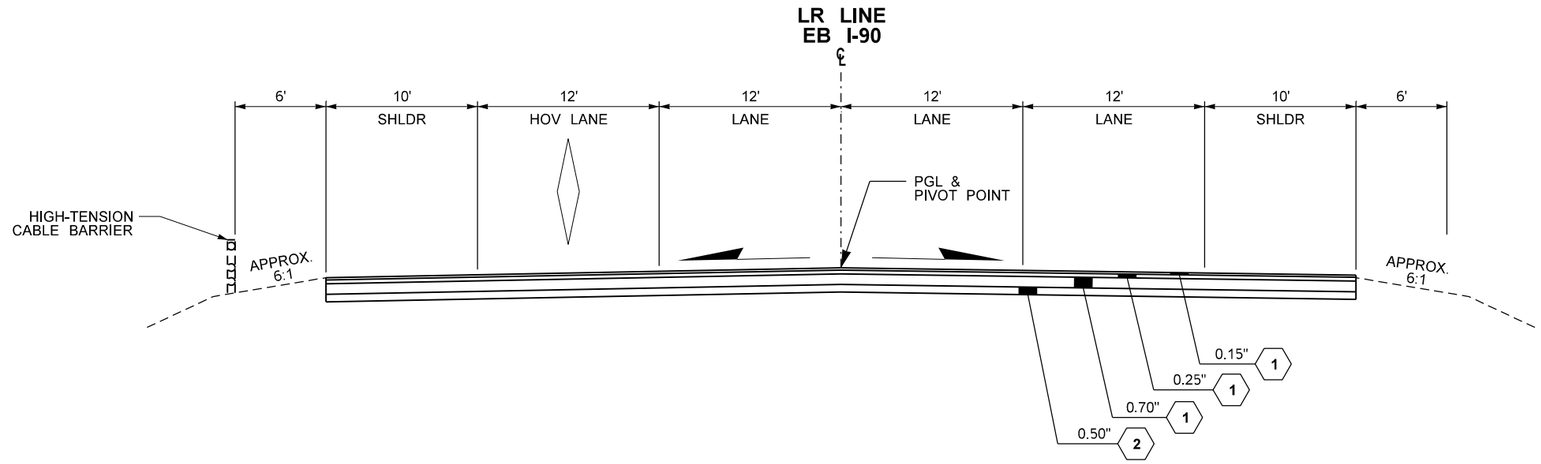
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

ROADWAY SECTIONS

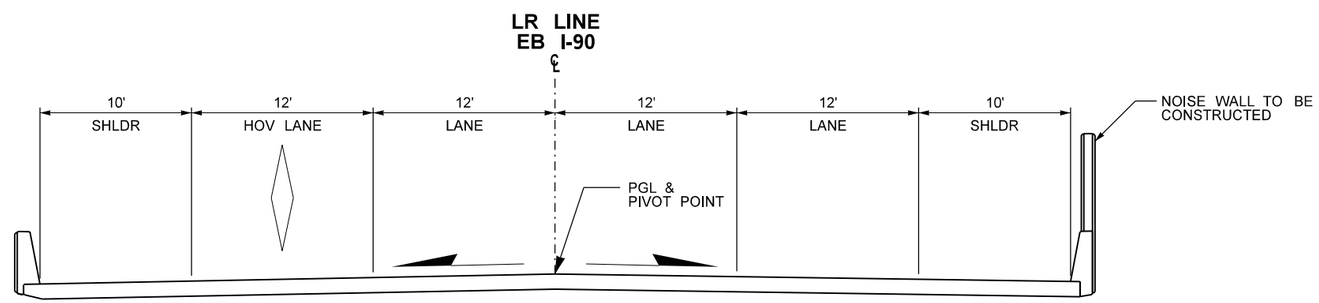
PLAN REF NO
RS1

SHEET 3 OF 49 SHEETS



ROADWAY SECTION

EASTBOUND I-90
LR 628+08.55 TO LR 629+62.01
ROADWAY RECONSTRUCTION
(SEE NOTE 6)
NOT TO SCALE



BRIDGE SECTION

EASTBOUND I-90
LR 628+50.35 TO 629+20.35 BRIDGE
(SEE NOTE 6)
NOT TO SCALE

GENERAL NOTES

1. FOR ADDITIONAL NOTES, SEE SHEET RS1.
2. WEST LAKE SAMMAMISH PARKWAY SE NEEDS TO BE RAISED TO ACHIEVE MINIMUM CREEK VERTICAL CLEARANCES. THE EXTENT OF WHICH DEPENDS ON STRUCTURE TYPE, SIZE AND VERTICAL PROFILE WHICH ARE TO BE DETERMINED BY THE DESIGN-BUILDER. SEE PRELIMINARY HYDRAULIC REPORT, SECTION 2.30 AND APPENDIX H STRUCTURE FREE ZONE" FOR MORE INFORMATION.

LEGEND	
1	HMA CLASS 1/2" PG 58H-22
2	CRUSHED SURFACING BASE COURSE

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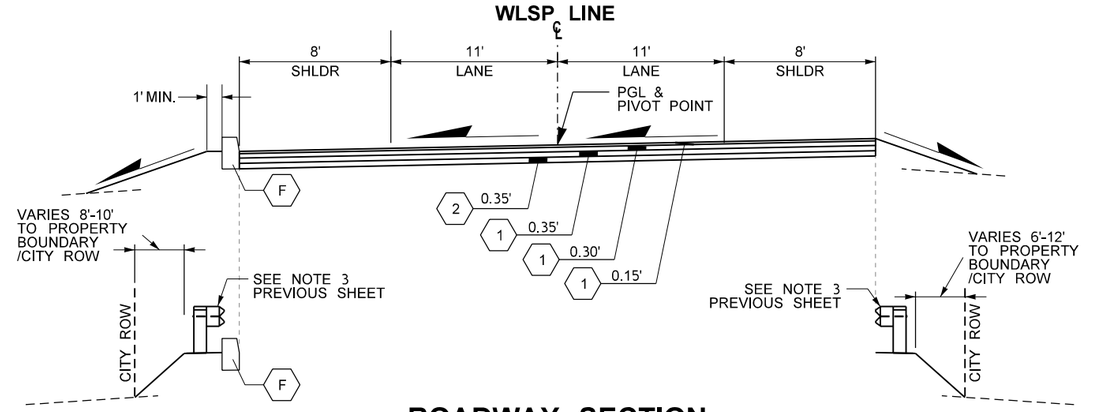
FISH PASSAGE
I-90 LEWIS CREEK

ROADWAY SECTIONS

PLAN REF NO
RS2

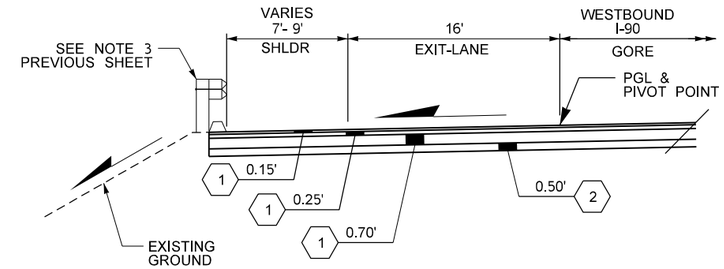
SHEET 4 OF 49 SHEETS



GUARDRAIL END CONDITION
WLSP 65+87.0 TO WLSP 68+65.0

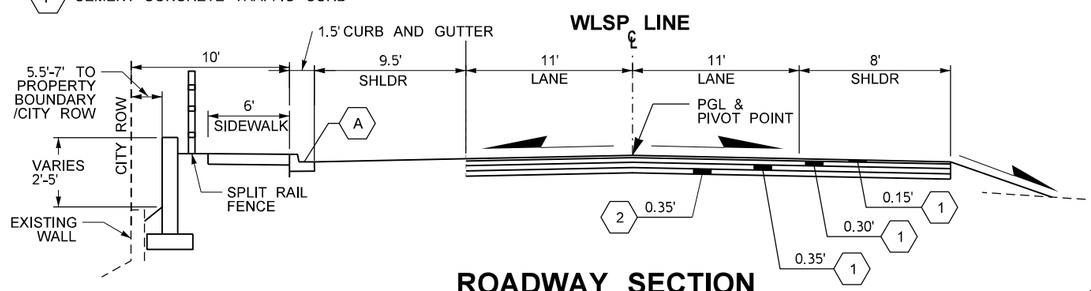
ROADWAY SECTION
W LAKE SAMMAMISH PARKWAY SE
WLSP 65+10.0 TO WLSP 69+08.0
ROADWAY RECONSTRUCTION
(SEE NOTE 2)
NOT TO SCALE

GUARDRAIL END CONDITION
WLSP 65+90.0 TO WLSP 68+85.0

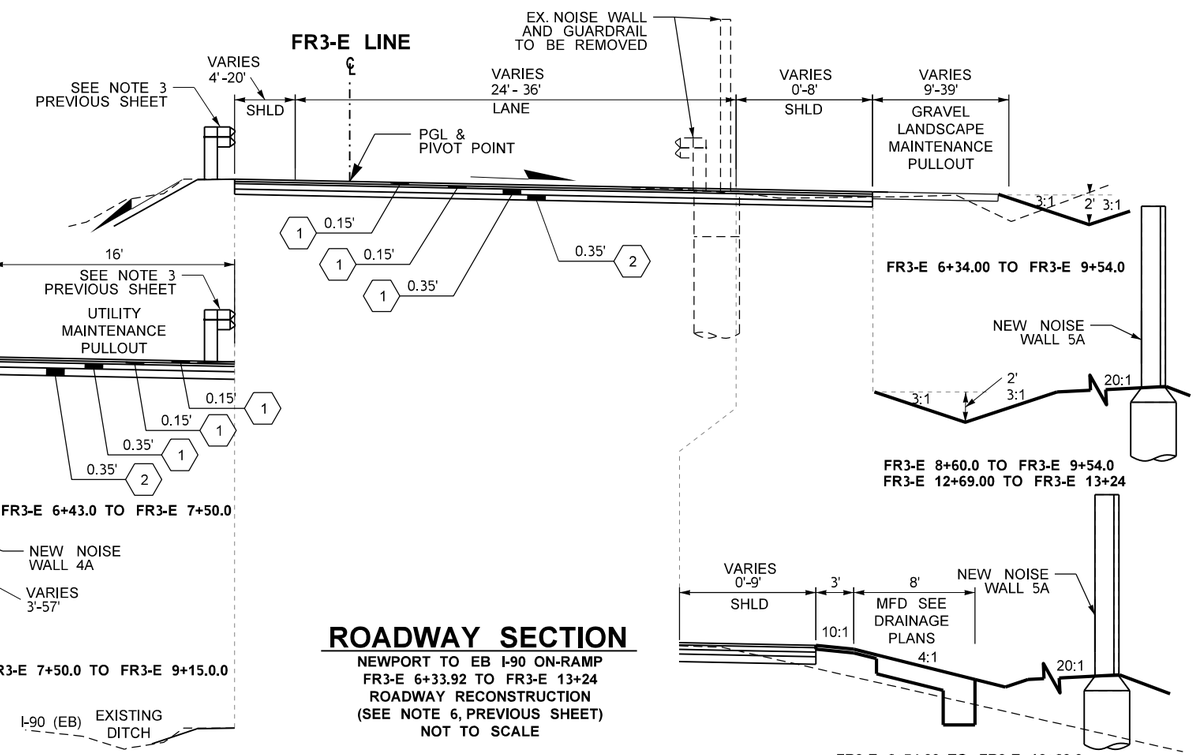


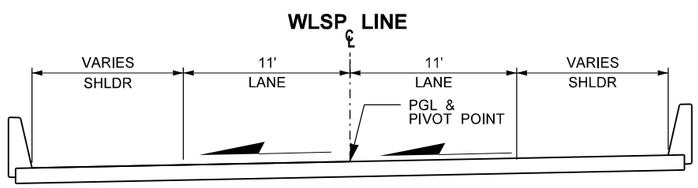
ROADWAY SECTION
WB I-90 OFF-RAMP TO W LAKE SAMMAMISH
OFLM 96+27.19 TO OFLM 97+83.96
ROADWAY RECONSTRUCTION
(SEE NOTE 6, PREVIOUS SHEET)
NOT TO SCALE

CURB NOTES
- (A) CEMENT CONCRETE CURB TRAFFIC CURB AND GUTTER
- (F) CEMENT CONCRETE TRAFFIC CURB



ROADWAY SECTION
W LAKE SAMMAMISH PARKWAY SE
WLSP 69+08.00 TO WLSP 70+70.00





BRIDGE SECTION
W LAKE SAMMAMISH PARKWAY SE
WLSP 66+86.03 TO WLSP 67+17.07 BRIDGE
(SEE NOTE 2)
NOT TO SCALE

ROADWAY SECTION
NEWPORT TO EB I-90 ON-RAMP
FR3-E 6+33.92 TO FR3-E 13+24
ROADWAY RECONSTRUCTION
(SEE NOTE 6, PREVIOUS SHEET)
NOT TO SCALE

CURB NOTES
- (A) CEMENT CONCRETE CURB TRAFFIC CURB AND GUTTER

LEGEND	
1	HMA CLASS 1/2" PG 58H-22
2	CRUSHED SURFACING BASE COURSE

GENERAL NOTES
1. FOR ADDITIONAL NOTES, SEE SHEET RS1.
2. WEST LAKE SAMMAMISH PARKWAY SE NEEDS TO BE RAISED TO ACHIEVE MINIMUM CREEK VERTICAL CLEARANCES. THE EXTENT OF WHICH DEPENDS ON STRUCTURE TYPE, SIZE AND VERTICAL PROFILE WHICH ARE TO BE DETERMINED BY THE DESIGN-BUILDER. SEE PRELIMINARY HYDRAULIC REPORT, SECTION 2.30 AND APPENDIX H STRUCTURE FREE ZONE" FOR MORE INFORMATION.

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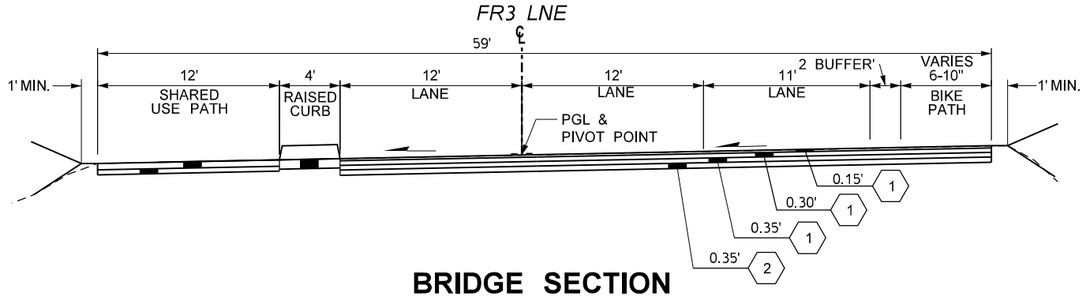
I-90 LEWIS CREEK

ROADWAY SECTIONS

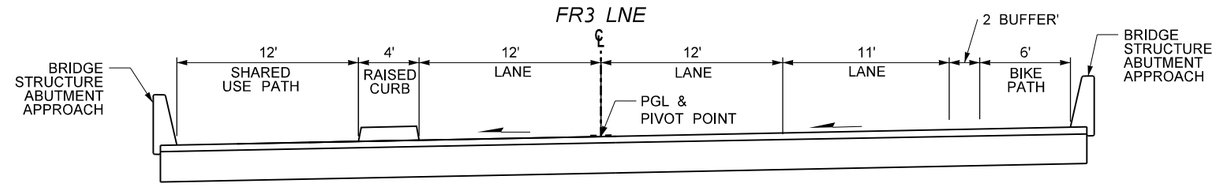
PLAN REF NO RS3

SHEET 5 OF 49 SHEETS



BRIDGE SECTION

NEWPORT WAY FR3 625+59.3 TO FR3 627+06.3
(SEE NOTE 6, PREVIOUS SHEET)
NOT TO SCALE



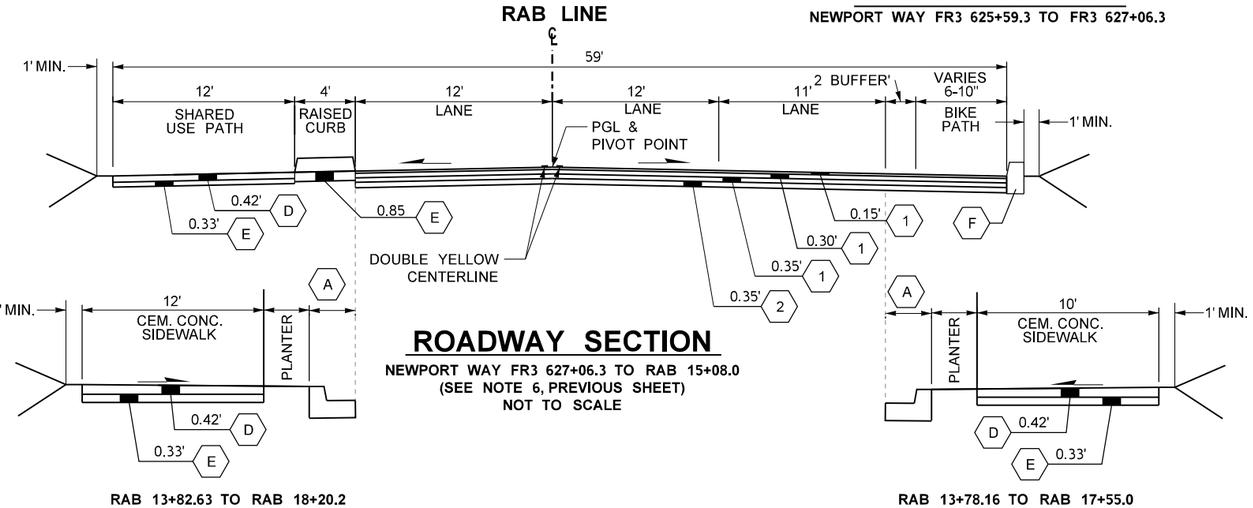
BRIDGE SECTION

NEWPORT WAY FR3 625+59.3 TO FR3 627+06.3

CURB NOTES

- (A) CEMENT CONCRETE CURB TRAFFIC CURB AND GUTTER
- (B) CURB 3 ROUNDABOUT ISLAND CEMENT CONCRETE CURB
- (C) CURB 1 ROUNDABOUT ISLAND CEMENT CONCRETE CURB
- (D) PORTLAND CEMENT CONCRETE
- (E) CRUSHED SURFACING BASE COURSE
- (F) CEMENT CONCRETE TRAFFIC CURB

LEGEND	
(1)	HMA CLASS 1/2" PG 58H-22
(2)	CRUSHED SURFACING BASE COURSE
(3)	PCCP WITH CORROSION RESISTANT DOWEL BARS

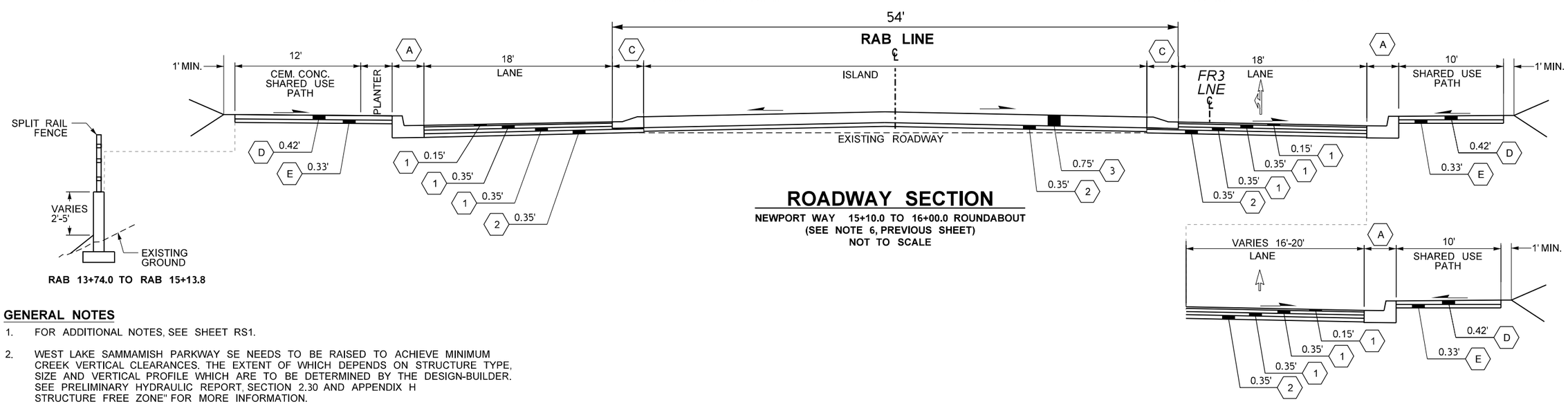


ROADWAY SECTION

NEWPORT WAY FR3 627+06.3 TO RAB 15+08.0
(SEE NOTE 6, PREVIOUS SHEET)
NOT TO SCALE

RAB 13+82.63 TO RAB 18+20.2

RAB 13+78.16 TO RAB 17+55.0



ROADWAY SECTION

NEWPORT WAY 15+10.0 TO 16+00.0 ROUNDABOUT
(SEE NOTE 6, PREVIOUS SHEET)
NOT TO SCALE

RAB 13+74.0 TO RAB 15+13.8

GENERAL NOTES

1. FOR ADDITIONAL NOTES, SEE SHEET RS1.
2. WEST LAKE SAMMAMISH PARKWAY SE NEEDS TO BE RAISED TO ACHIEVE MINIMUM CREEK VERTICAL CLEARANCES. THE EXTENT OF WHICH DEPENDS ON STRUCTURE TYPE, SIZE AND VERTICAL PROFILE WHICH ARE TO BE DETERMINED BY THE DESIGN-BUILDER. SEE PRELIMINARY HYDRAULIC REPORT, SECTION 2.30 AND APPENDIX H STRUCTURE FREE ZONE" FOR MORE INFORMATION.

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PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

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I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

ROADWAY SECTIONS

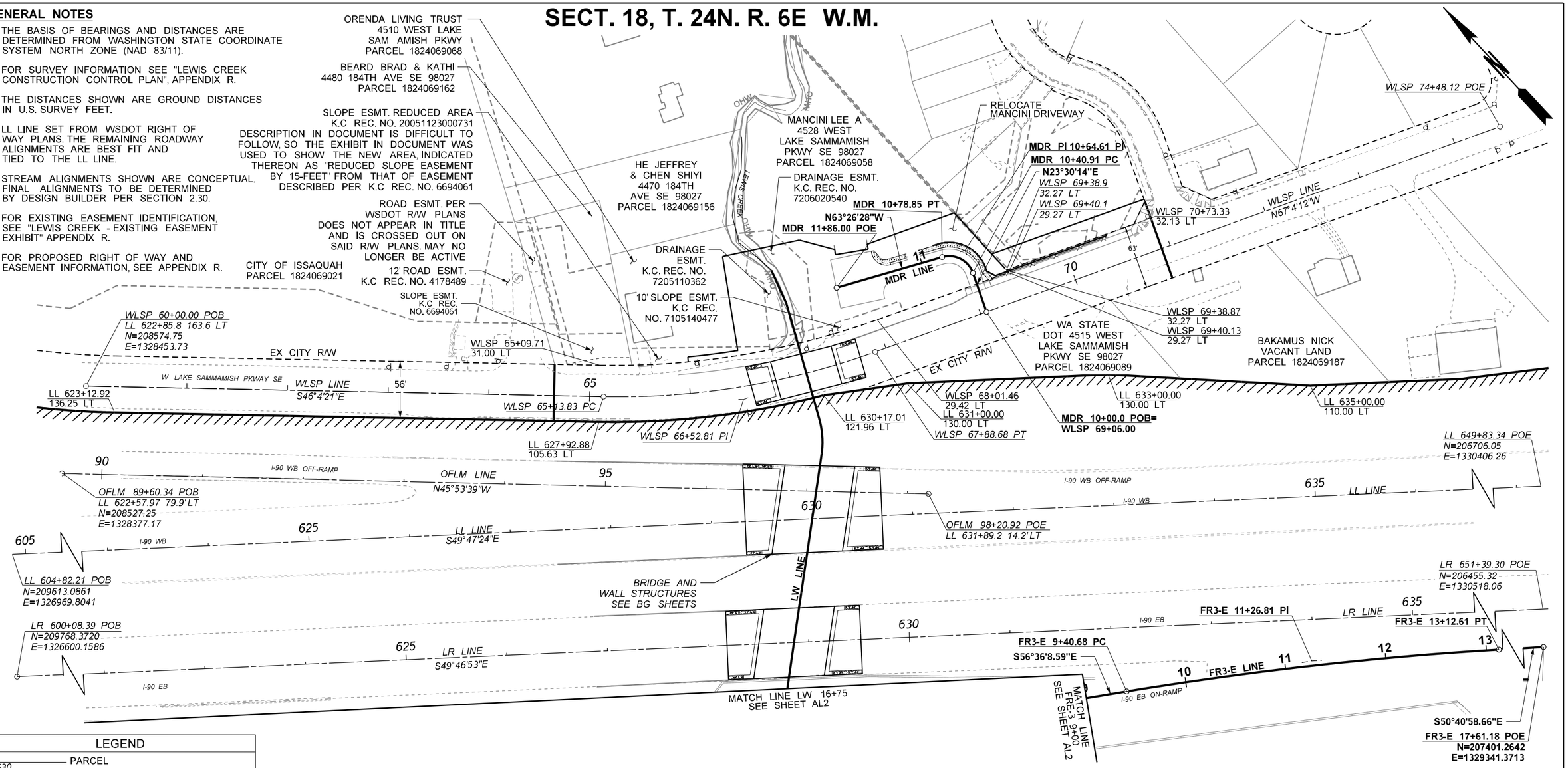
PLAN REF NO
RS4

SHEET 6 OF 49 SHEETS

SECT. 18, T. 24N. 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 "LEWIS CREEK CONSTRUCTION CONTROL PLAN", APPENDIX R.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
4. LL LINE SET FROM WSDOT RIGHT OF WAY PLANS. THE REMAINING ROADWAY ALIGNMENTS ARE BEST FIT AND TIED TO THE LL LINE.
5. STREAM ALIGNMENTS SHOWN ARE CONCEPTUAL. FINAL ALIGNMENTS TO BE DETERMINED BY DESIGN BUILDER PER SECTION 2.30.
6. FOR EXISTING EASEMENT IDENTIFICATION, SEE "LEWIS CREEK - EXISTING EASEMENT EXHIBIT" APPENDIX R.
7. FOR PROPOSED RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPENDIX R.



LEGEND

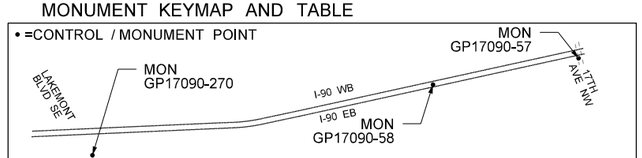
- PARCEL
- 630 / 200 — EXISTING ALIGNMENT
- CONSTRUCTION ALIGNMENT
- HIGHWAY RIGHT OF WAY
- EXISTING WSDOT LIMITED ACCESS RIGHT OF WAY
- CITY/COUNTY RIGHT-OF-WAY
- EXISTING EASEMENT/ PERMIT
- 15' WIDE MAINTENANCE ACCESS
- NEW PERMANENT EASEMENT
- NEW TEMPORARY EASEMENT
- PROPOSED RETAINING WALL
- CP ## / CP ## — CONTROL / MONUMENT POINT

ROADWAY CURVE TABLE

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	SUPER
WLSP 66+52.82	20°59'50 LT	750.0'	139.0'	274.9'	4%
MDR 10+64.61	86°56'02.35"LT	25.0'	23.7'	37.9'	1%
FR3-E 11+26.81	05°55'09.92" RT	3,600.0'	186.1'	371.9'	-

0 50 100
SCALE IN FEET

MONUMENT KEYMAP AND TABLE



MONUMENT	MILEPOST	NORTHING	EASTING
GP17090-58	MP 090 SR 15.2	204180.2540	1334376.4780
GP17090-57	MP 090 SR 15.8	202431.3570	1337119.7830
PG17090-270	MP 090 SR 13.8	208405.7450	1328074.4900

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I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

ALIGNMENT PLAN

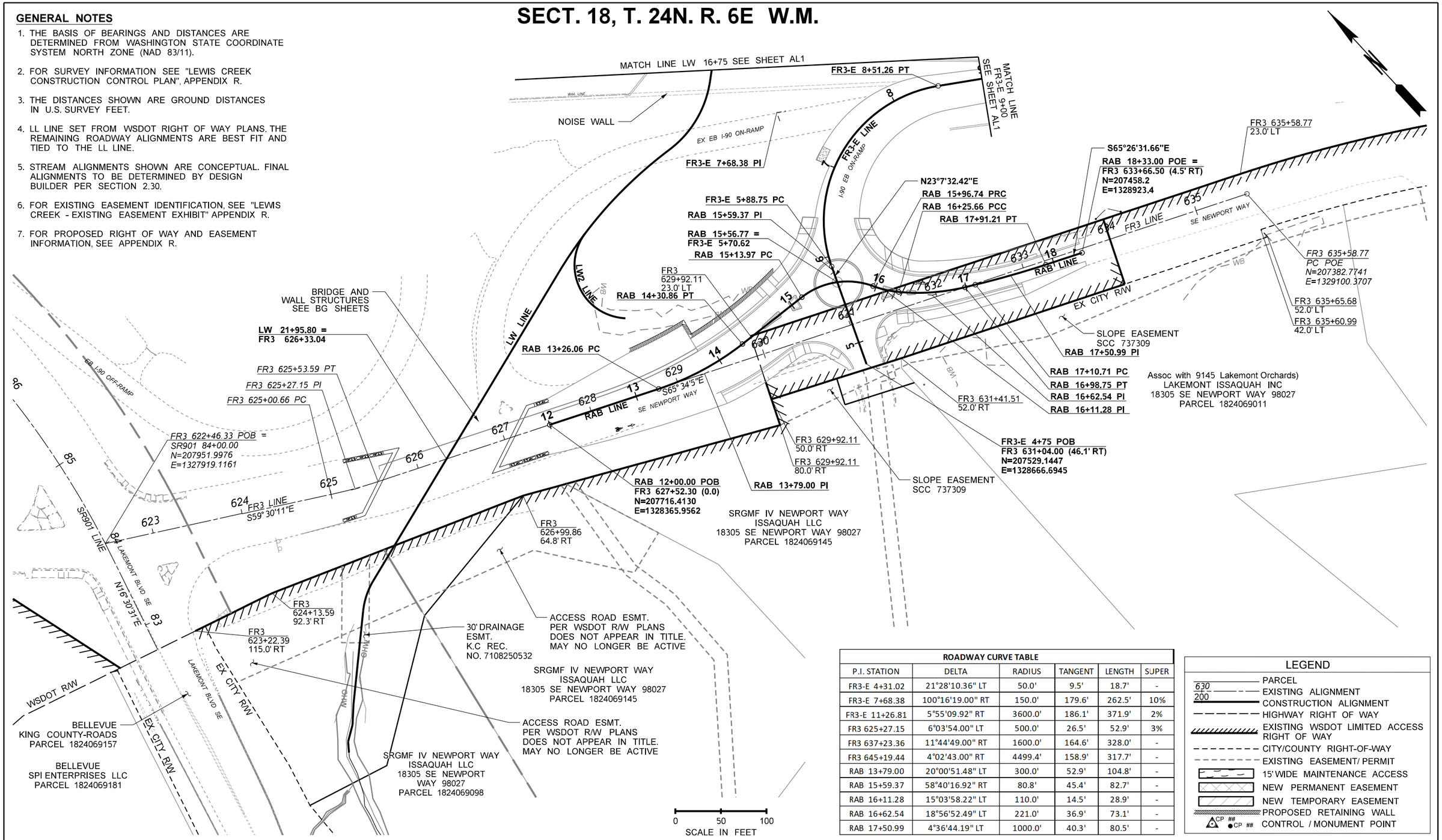
PLAN REF NO AL1

SHEET 7 OF 49 SHEETS

SECT. 18, T. 24N. 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 "LEWIS CREEK CONSTRUCTION CONTROL PLAN", APPENDIX R.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
4. LL LINE SET FROM WSDOT RIGHT OF WAY PLANS. THE REMAINING ROADWAY ALIGNMENTS ARE BEST FIT AND TIED TO THE LL LINE.
5. STREAM ALIGNMENTS SHOWN ARE CONCEPTUAL. FINAL ALIGNMENTS TO BE DETERMINED BY DESIGN BUILDER PER SECTION 2.30.
6. FOR EXISTING EASEMENT IDENTIFICATION, SEE "LEWIS CREEK - EXISTING EASEMENT EXHIBIT" APPENDIX R.
7. FOR PROPOSED RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPENDIX R.



ROADWAY CURVE TABLE

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	SUPER
FR3-E 4+31.02	21°28'10.36" LT	50.0'	9.5'	18.7'	-
FR3-E 7+68.38	100°16'19.00" RT	150.0'	179.6'	262.5'	10%
FR3-E 11+26.81	5°55'09.92" RT	3600.0'	186.1'	371.9'	2%
FR3 625+27.15	6°03'54.00" LT	500.0'	26.5'	52.9'	3%
FR3 637+23.36	11°44'49.00" RT	1600.0'	164.6'	328.0'	-
FR3 645+19.44	4°02'43.00" RT	4499.4'	158.9'	317.7'	-
RAB 13+79.00	20°00'51.48" LT	300.0'	52.9'	104.8'	-
RAB 15+59.37	58°40'16.92" RT	80.8'	45.4'	82.7'	-
RAB 16+11.28	15°03'58.22" LT	110.0'	14.5'	28.9'	-
RAB 16+62.54	18°56'52.49" LT	221.0'	36.9'	73.1'	-
RAB 17+50.99	4°36'44.19" LT	1000.0'	40.3'	80.5'	-

LEGEND

- PARCEL
- 630 / 200 — EXISTING ALIGNMENT / CONSTRUCTION ALIGNMENT
- HIGHWAY RIGHT OF WAY
- EXISTING WSDOT LIMITED ACCESS RIGHT OF WAY
- CITY/COUNTY RIGHT-OF-WAY
- EXISTING EASEMENT/ PERMIT
- 15' WIDE MAINTENANCE ACCESS
- NEW PERMANENT EASEMENT
- NEW TEMPORARY EASEMENT
- PROPOSED RETAINING WALL
- CP ## / CP ## — CONTROL / MONUMENT POINT

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PLOTTED BY	lsimanek
DESIGNED BY	L. JOHNSON
ENTERED BY	L. JOHNSON
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-6703

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

I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

ALIGNMENT PLAN

PLAN REF NO AL2

SHEET 8 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.

GENERAL NOTES

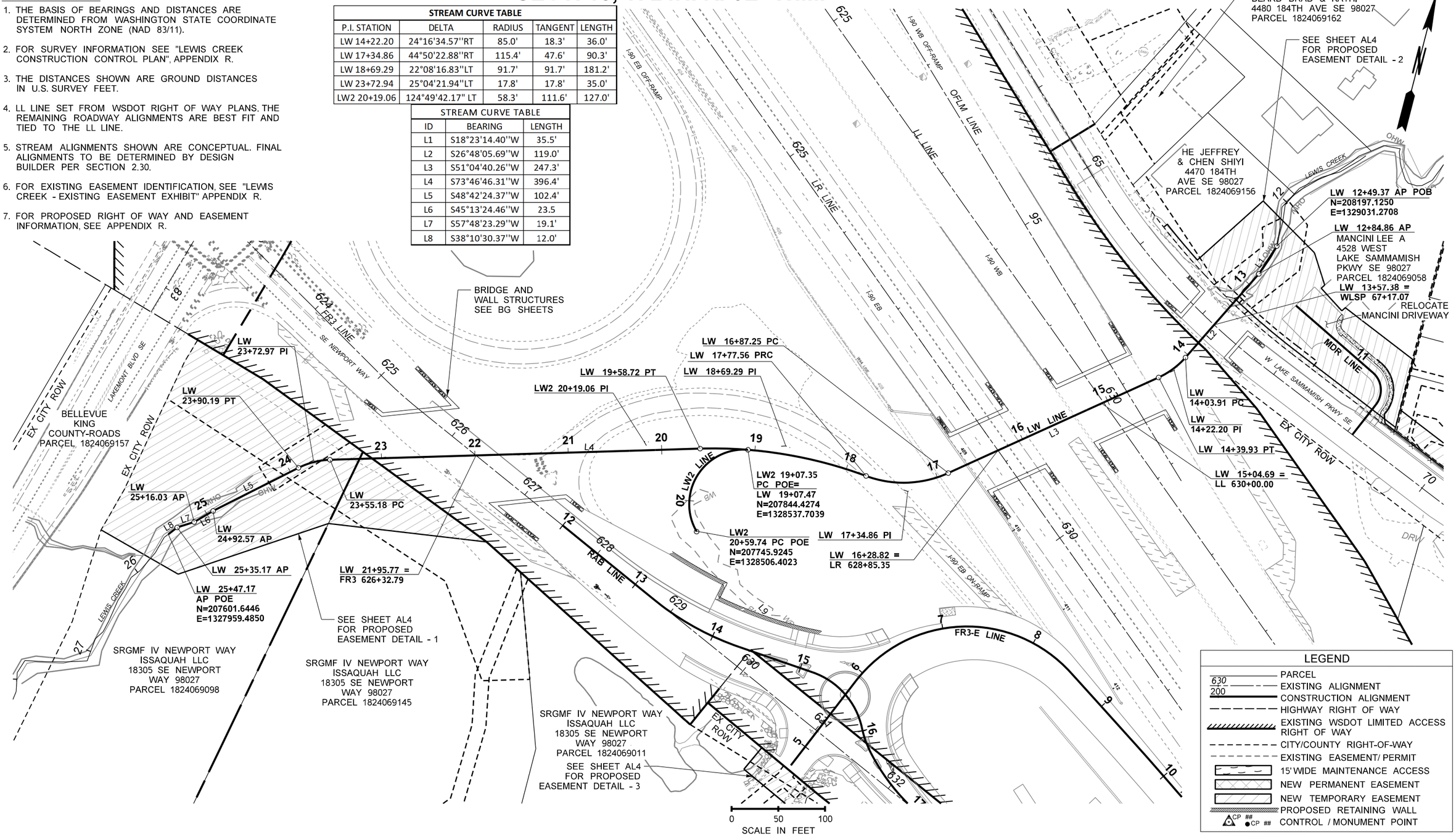
1. THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE COORDINATE SYSTEM NORTH ZONE (NAD 83/11).
2. FOR SURVEY INFORMATION SEE "LEWIS CREEK CONSTRUCTION CONTROL PLAN", APPENDIX R.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
4. LL LINE SET FROM WSDOT RIGHT OF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

STREAM CURVE TABLE

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
LW 14+22.20	24°16'34.57''RT	85.0'	18.3'	36.0'
LW 17+34.86	44°50'22.88''RT	115.4'	47.6'	90.3'
LW 18+69.29	22°08'16.83''LT	91.7'	91.7'	181.2'
LW 23+72.94	25°04'21.94''LT	17.8'	17.8'	35.0'
LW2 20+19.06	124°49'42.17" LT	58.3'	111.6'	127.0'

STREAM CURVE TABLE

ID	BEARING	LENGTH
L1	S18°23'14.40''W	35.5'
L2	S26°48'05.69''W	119.0'
L3	S51°04'40.26''W	247.3'
L4	S73°46'46.31''W	396.4'
L5	S48°42'24.37''W	102.4'
L6	S45°13'24.46''W	23.5
L7	S57°48'23.29''W	19.1'
L8	S38°10'30.37''W	12.0'



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DATE	10/10/2023				CONTRACT NO.		LOCATION NO.
PLOTTED BY	lsimanek						
DESIGNED BY	L. JOHNSON						
ENTERED BY	L. JOHNSON						
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

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

CREEK ALIGNMENT PLAN

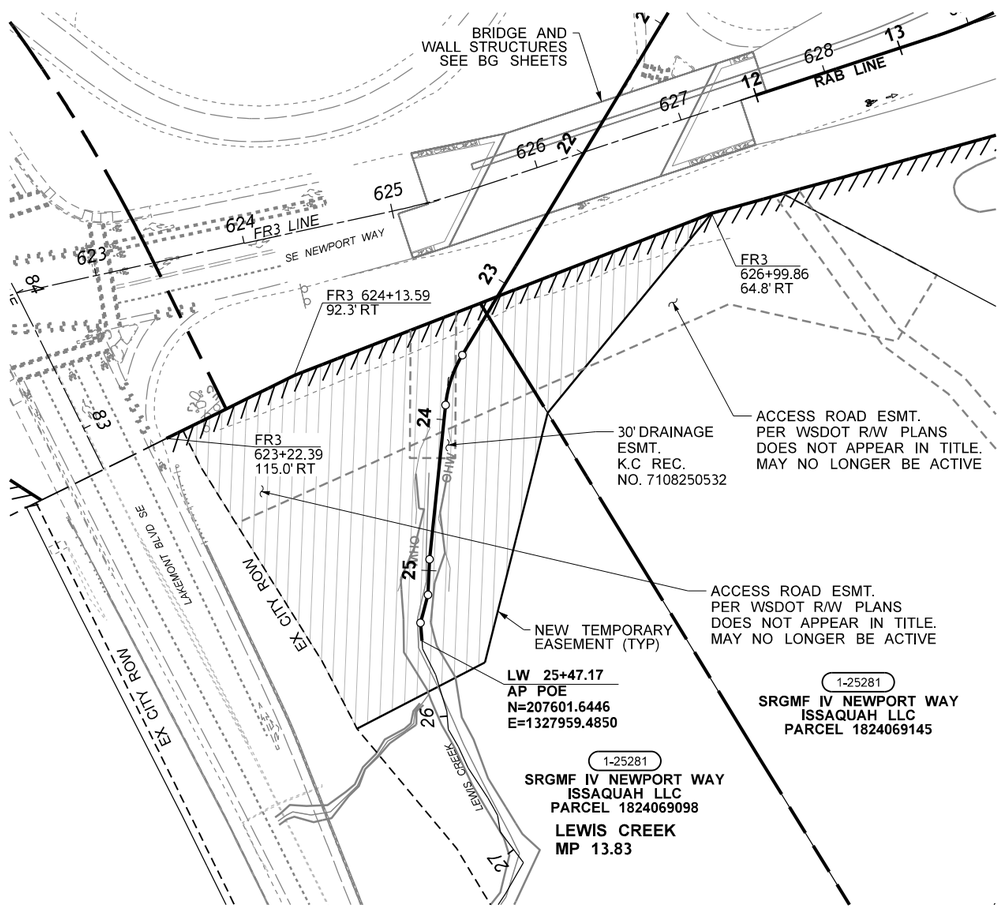
PLAN REF NO
AL3

SHEET 9 OF 49 SHEETS

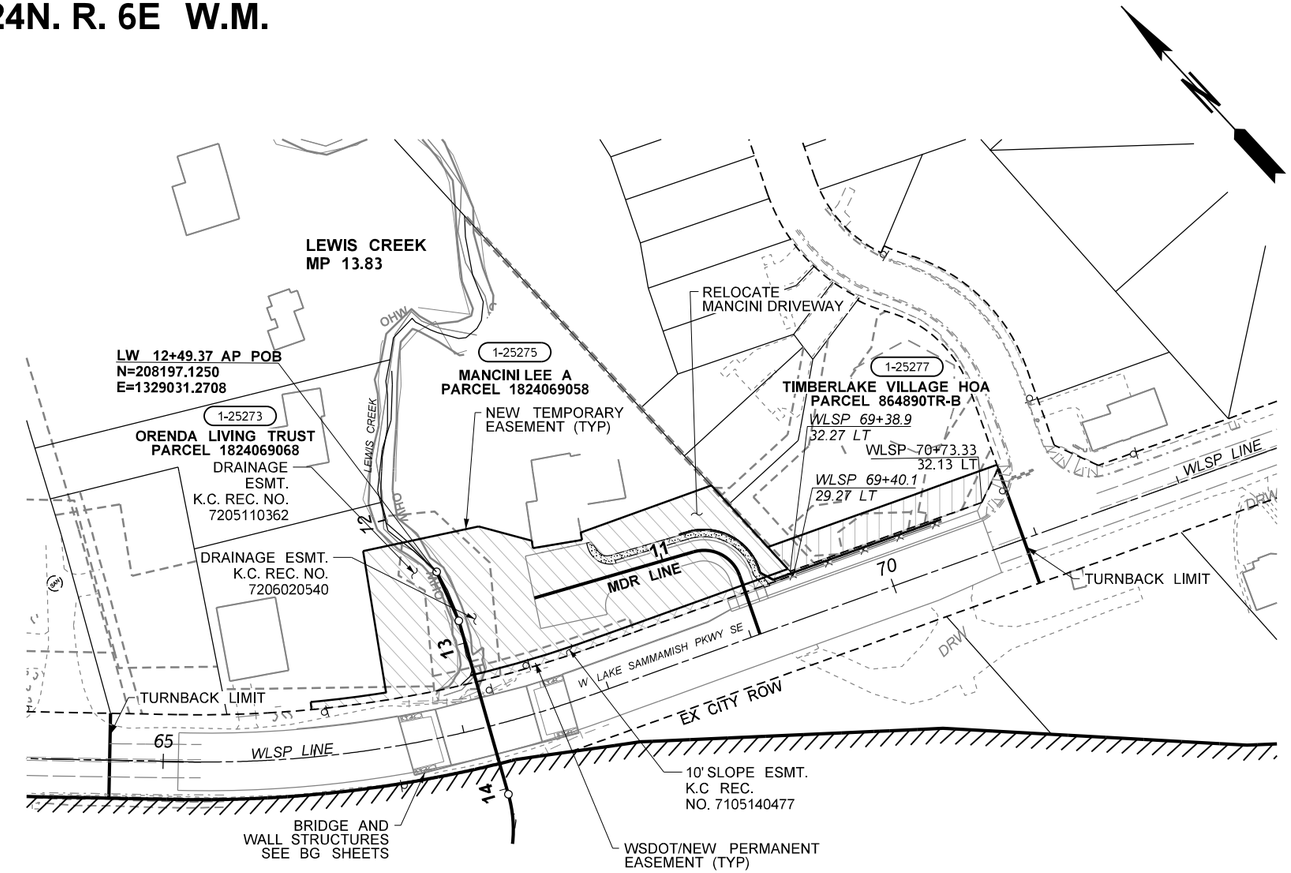
SECT. 18, T. 24N. R. 6E W.M.

GENERAL NOTES

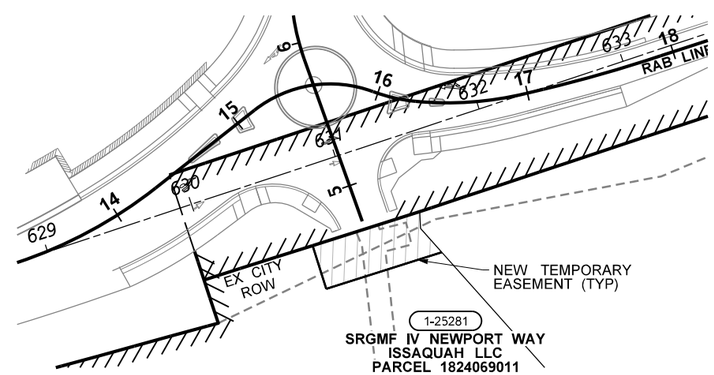
1. THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE COORDINATE SYSTEM NORTH ZONE (NAD 83/11).
2. FOR SURVEY INFORMATION SEE "LEWIS CREEK CONSTRUCTION CONTROL PLAN", APPENDIX R.
3. THE DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET.
4. LL LINE SET FROM WSDOT RIGHT OF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



PROPOSED EASEMENT SE NEWPORT WAY DETAIL 1



PROPOSED EASEMENT WEST LAKE SAMMAMISH PKWY DETAIL 2



PROPOSED EASEMENT SE NEWPORT WAY RAB DETAIL 3

LEGEND	
	PARCEL
630 / 200	EXISTING ALIGNMENT
	CONSTRUCTION ALIGNMENT
	HIGHWAY RIGHT OF WAY
	EXISTING WSDOT LIMITED ACCESS RIGHT OF WAY
	CITY/COUNTY RIGHT-OF-WAY
	EXISTING EASEMENT/ PERMIT
	15' WIDE MAINTENANCE ACCESS
	NEW PERMANENT EASEMENT
	NEW TEMPORARY EASEMENT
	PROPOSED RETAINING WALL
CP ## / CP ##	CONTROL / MONUMENT POINT

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DESIGNED BY	L. JOHNSON					
ENTERED BY	L. JOHNSON					
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-6703		
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

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

PROPOSED EASEMENT PLANS

PLAN REF NO AL4

SHEET 10 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.

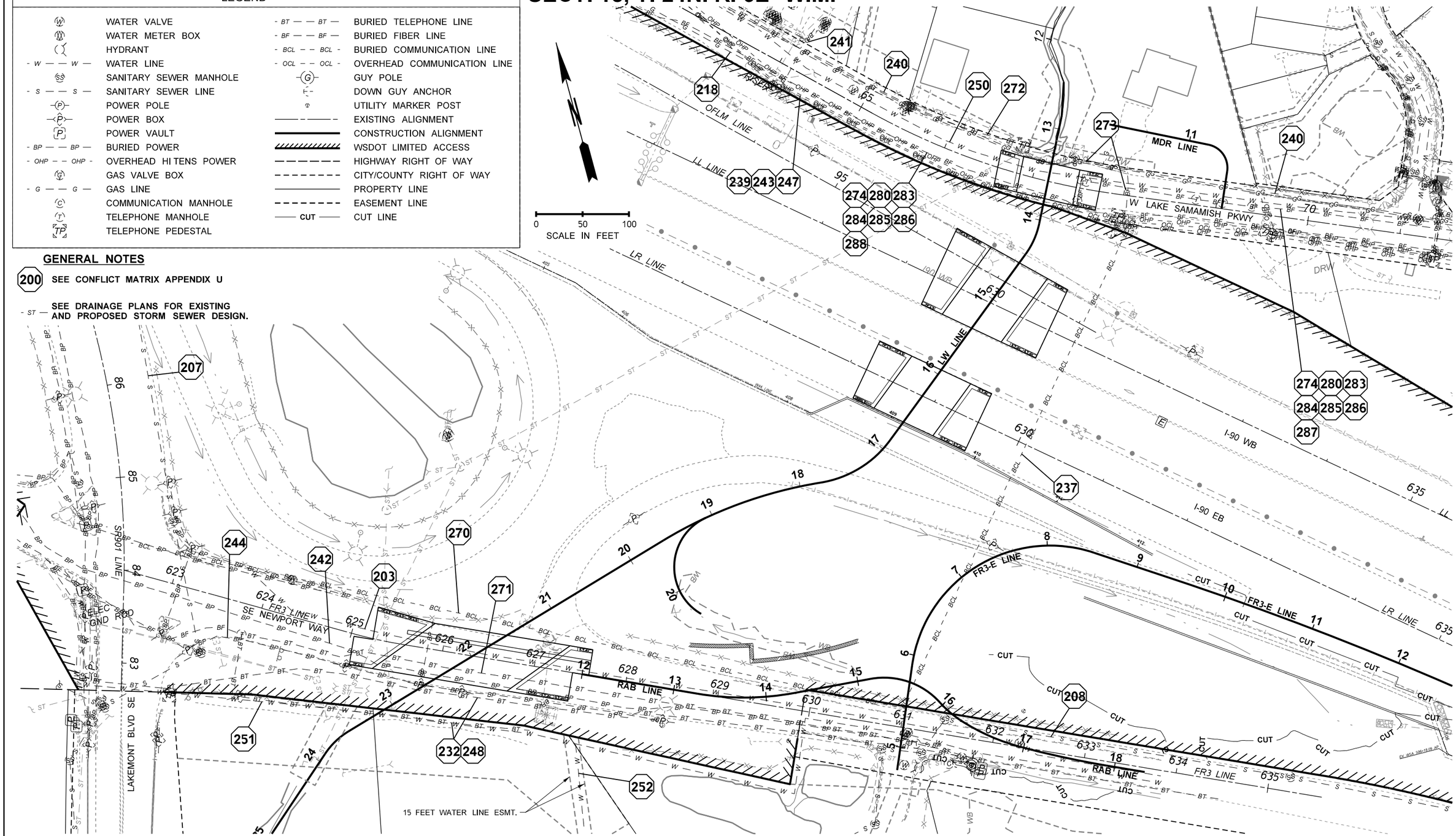
LEGEND

W	WATER VALVE	- BT — — BT —	BURIED TELEPHONE LINE
	WATER METER BOX	- BF — — BF —	BURIED FIBER LINE
	HYDRANT	- BCL — — BCL -	BURIED COMMUNICATION LINE
- W — — W —	WATER LINE	- OCL — — OCL -	OVERHEAD COMMUNICATION LINE
SS	SANITARY SEWER MANHOLE	G	GUY POLE
- S — — S —	SANITARY SEWER LINE		DOWN GUY ANCHOR
P	POWER POLE		UTILITY MARKER POST
P	POWER BOX		EXISTING ALIGNMENT
P	POWER VAULT		CONSTRUCTION ALIGNMENT
- BP — — BP —	BURIED POWER		WSDOT LIMITED ACCESS
- OHP — — OHP -	OVERHEAD HI TENS POWER		HIGHWAY RIGHT OF WAY
G	GAS VALVE BOX		CITY/COUNTY RIGHT OF WAY
- G — — G —	GAS LINE		PROPERTY LINE
C	COMMUNICATION MANHOLE		EASEMENT LINE
T	TELEPHONE MANHOLE	CUT	CUT LINE
TP	TELEPHONE PEDESTAL		

GENERAL NOTES

200 SEE CONFLICT MATRIX APPENDIX U

- ST — SEE DRAINAGE PLANS FOR EXISTING AND PROPOSED STORM SEWER DESIGN.



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PLOTTED BY	lsimanek						
DESIGNED BY	Q. ZHENG						
ENTERED BY	Q. ZHENG						
CHECKED BY	Y. ZHENG						
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6703		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

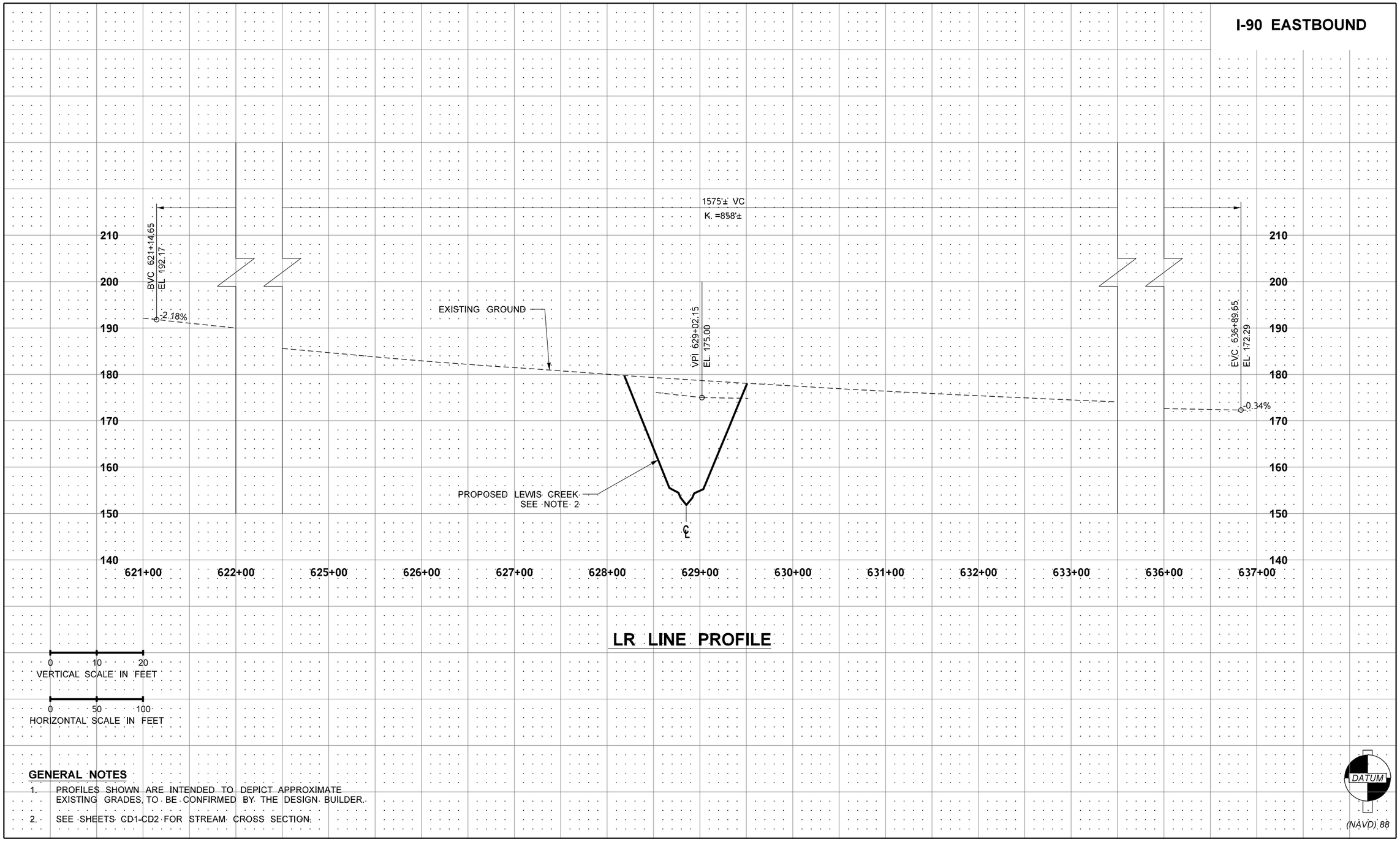
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

EXISTING UTILITIES

PLAN REF NO EU1

SHEET 11 OF 49 SHEETS



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.

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PLOTTED BY	lsimanek
DESIGNED BY	L. JOHNSON
ENTERED BY	L. JOHNSON
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-6703		
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

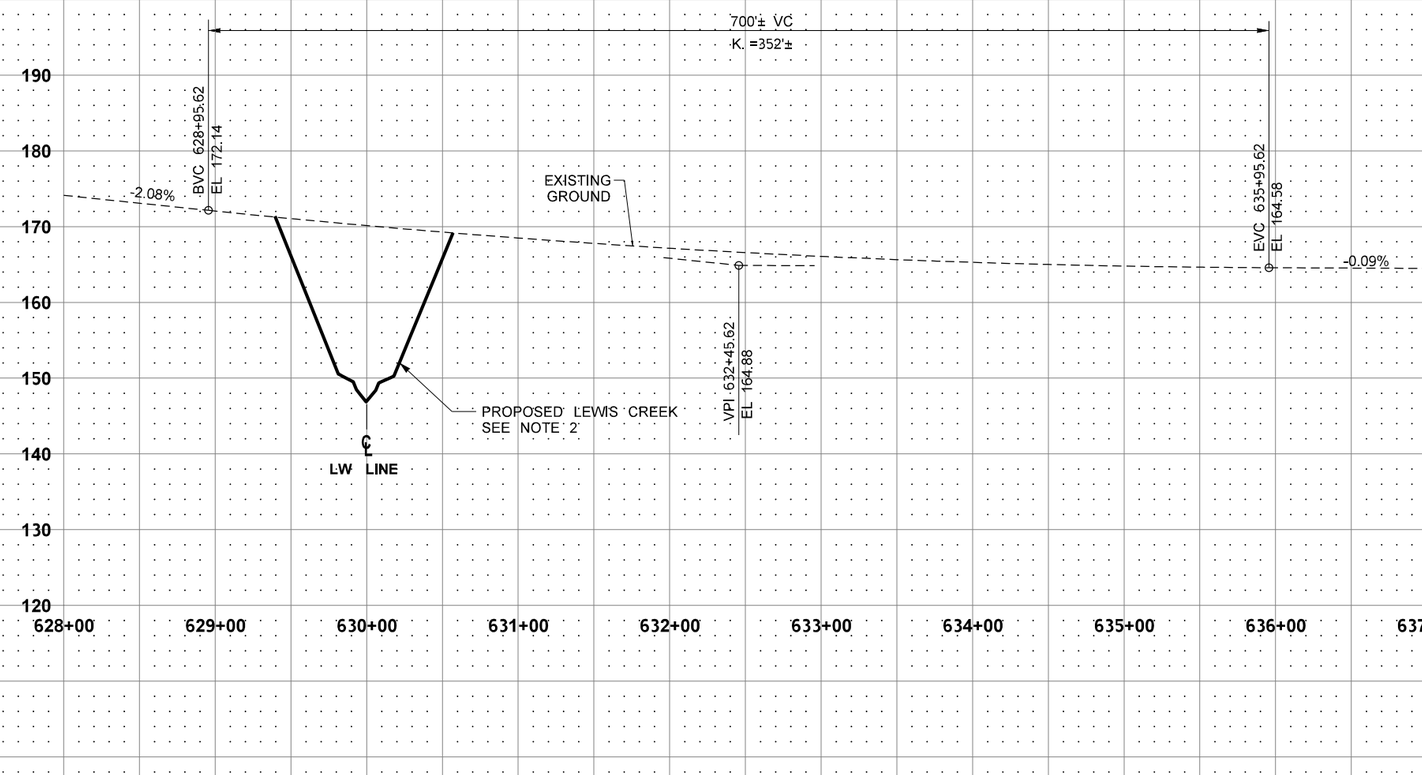
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

ROADWAY PROFILES

PLAN REF. NO. RP1

SHEET 12 OF 49 SHEETS

I-90 WESTBOUND



0 10 20
VERTICAL SCALE IN FEET

0 50 100
HORIZONTAL SCALE IN FEET

LL LINE PROFILE

DATUM
(NAVD) 88

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.

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ENTERED BY	L. JOHNSON				
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-6703		
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

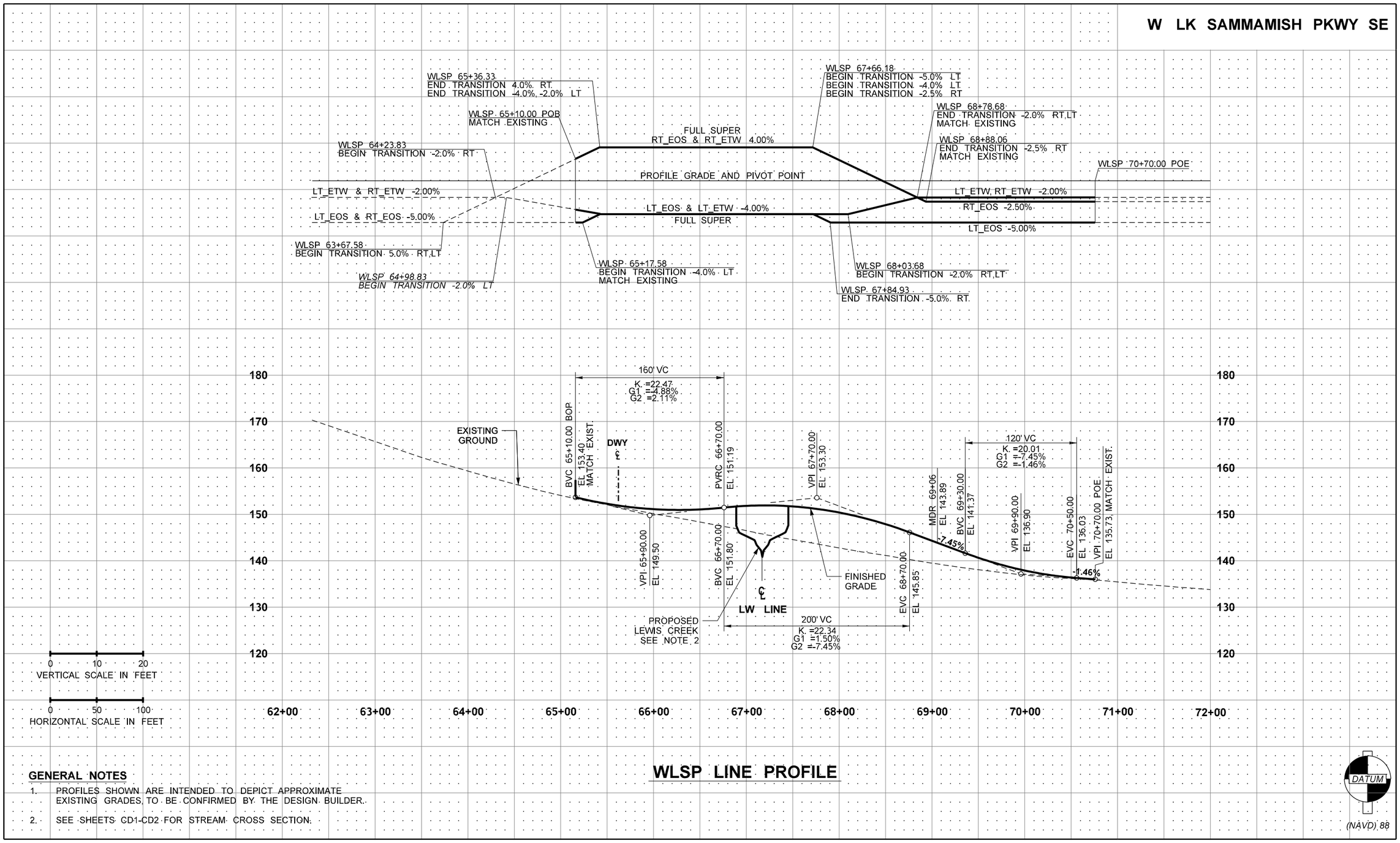
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

ROADWAY PROFILES

PLAN REF. NO. RP2

SHEET 13 OF 49 SHEETS

W LK SAMMAMISH PKWY SE



WLSP LINE PROFILE

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.

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ENTERED BY	L. JOHNSON			
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-6703		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

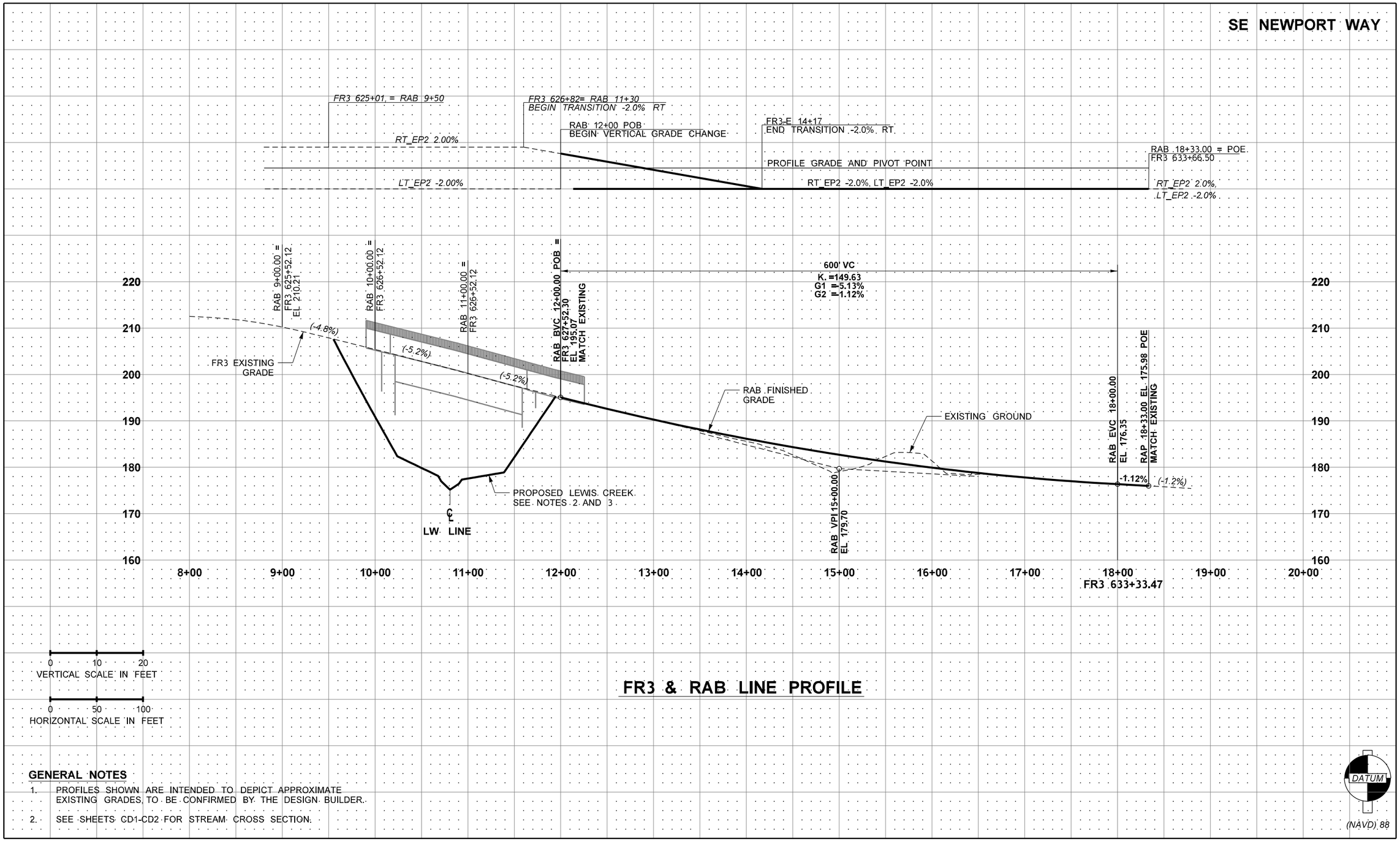
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

ROADWAY PROFILES

PLAN REF. NO. RP3

SHEET 14 OF 49 SHEETS



FR3 & RAB LINE PROFILE

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.

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ENTERED BY	L. JOHNSON				
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-6703		
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

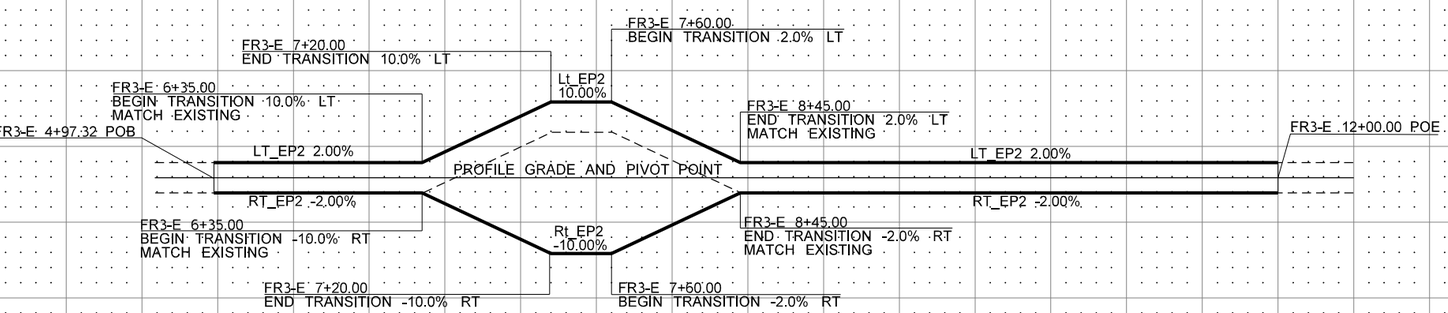
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

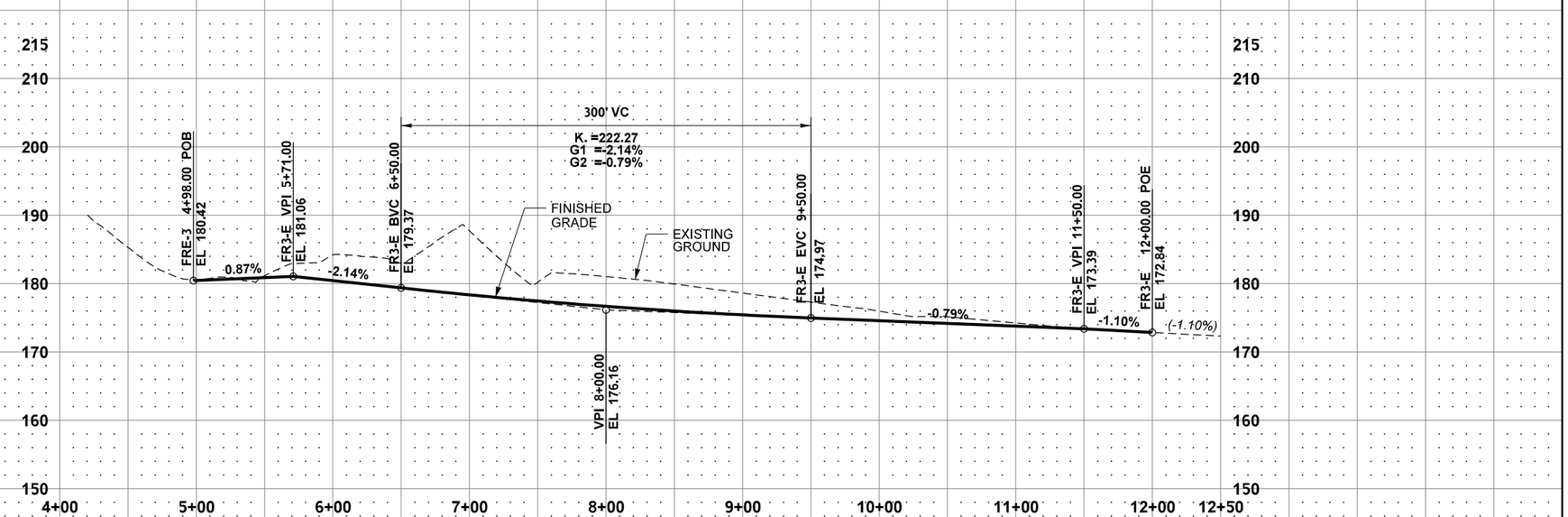
ROADWAY PROFILES

PLAN REF. NO. RP4

SHEET 15 OF 49 SHEETS

NEWPORT TO EASTBOUND I-90 ON-RAMP





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.

FR3-E LINE PROFILE

DATUM
(NAVD) 88

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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-6703		
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

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

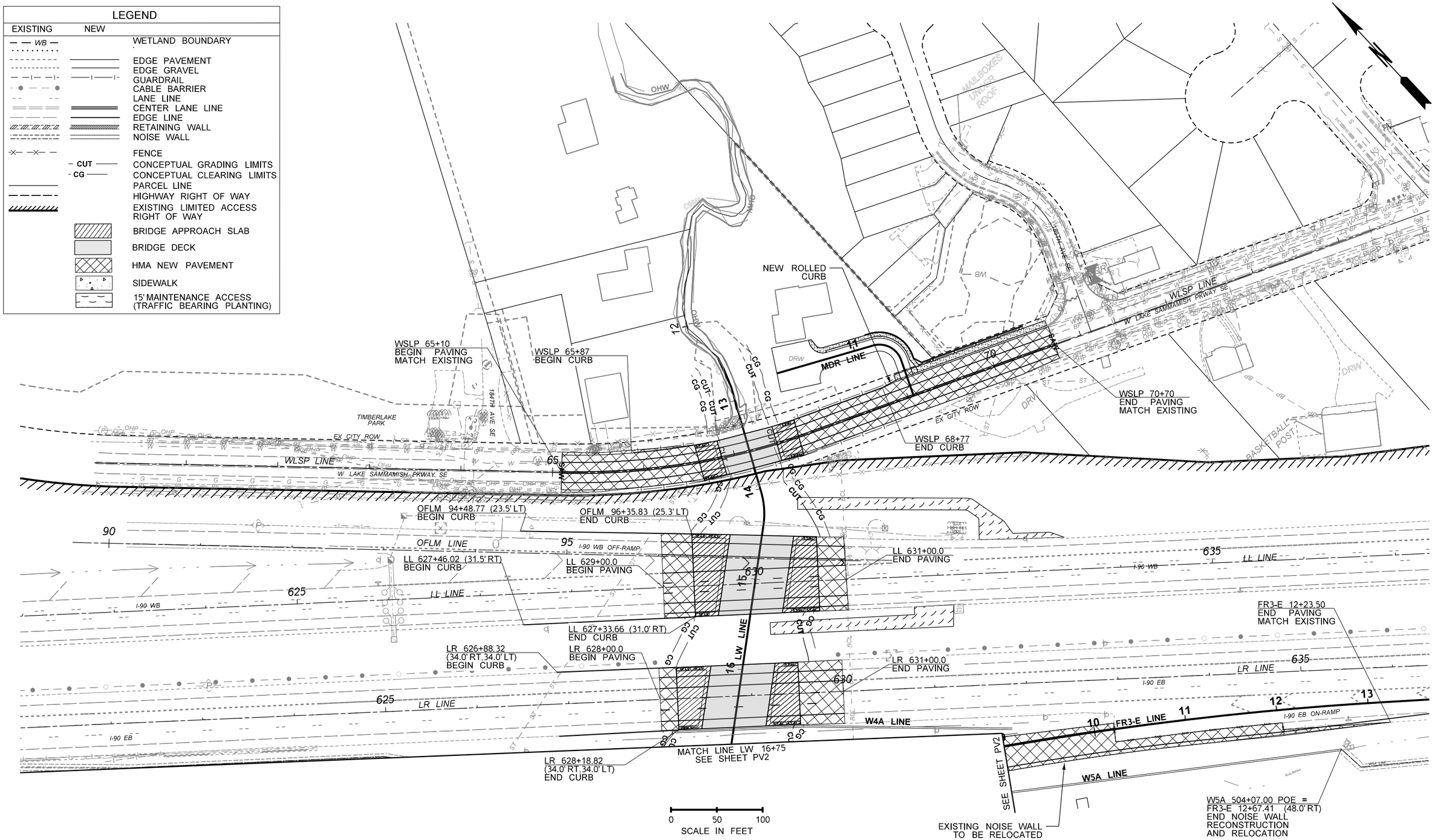
ROADWAY PROFILES

PLAN REF. NO. RP5

SHEET 16 OF 49 SHEETS

LEGEND

EXISTING	NEW	
WB		WETLAND BOUNDARY
		EDGE PAVEMENT
		EDGE GRAVEL
		GUARDRAIL
		CABLE BARRIER
		LANE LINE
		CENTER LANE LINE
		EDGE LINE
		RETAINING WALL
		NOISE WALL
		FENCE
	CUT	CONCEPTUAL GRADING LIMITS
	CG	CONCEPTUAL CLEARING LIMITS
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		EXISTING LIMITED ACCESS RIGHT OF WAY
		BRIDGE APPROACH SLAB
		BRIDGE DECK
		HMA NEW PAVEMENT
		SIDEWALK
		15' MAINTENANCE ACCESS (TRAFFIC BEARING PLANTING)



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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-6703		
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

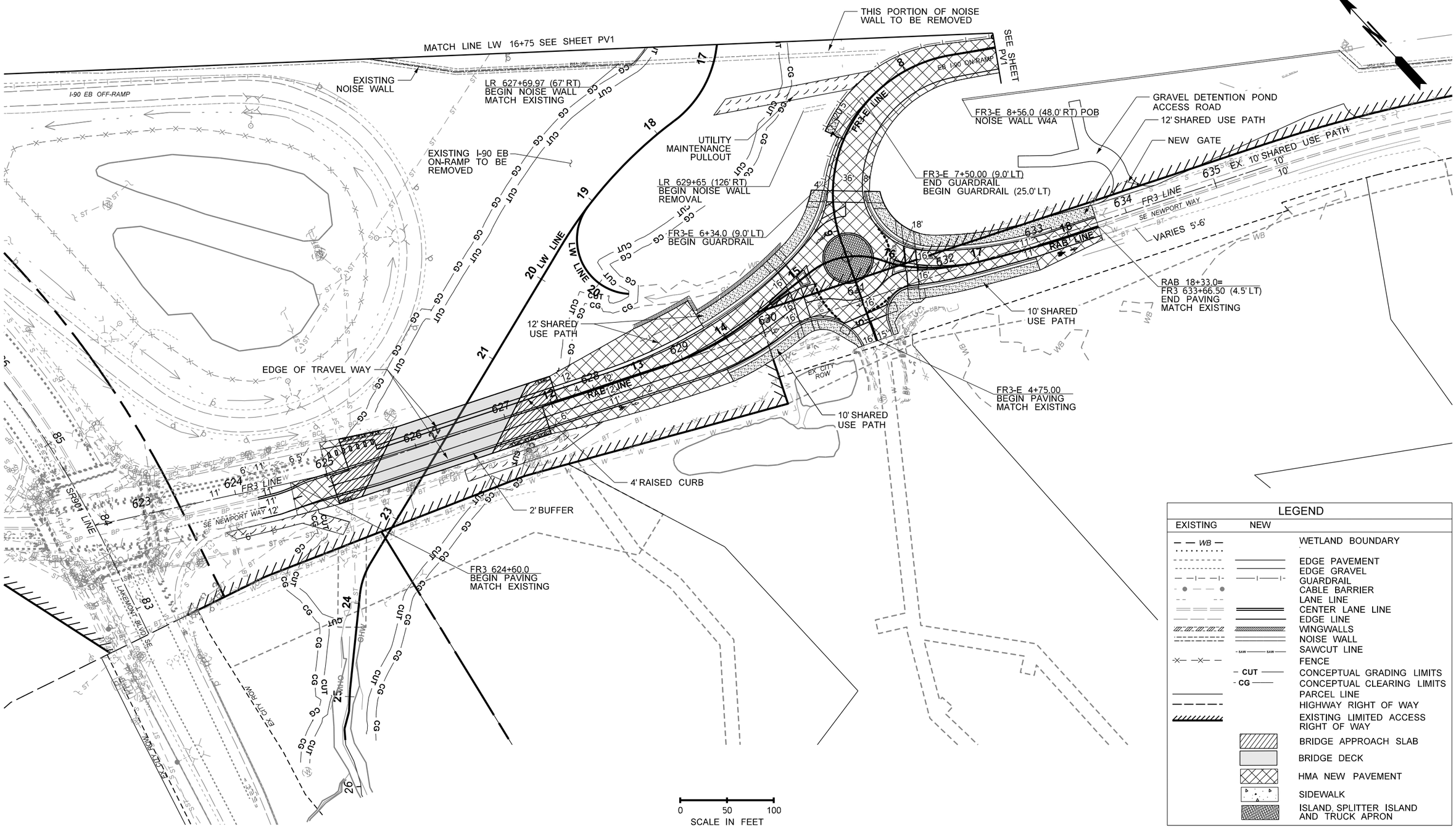
I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

PAVING PLAN

PLAN REF NO PV1

SHEET 17 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.



LEGEND

EXISTING	NEW	
WB		WETLAND BOUNDARY
		EDGE PAVEMENT
		EDGE GRAVEL
		GUARDRAIL
		CABLE BARRIER
		LANE LINE
		CENTER LANE LINE
		EDGE LINE
		WINGWALLS
		NOISE WALL
SAW	SAW	SAWCUT LINE
		FENCE
CUT		CONCEPTUAL GRADING LIMITS
CG		CONCEPTUAL CLEARING LIMITS
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		EXISTING LIMITED ACCESS RIGHT OF WAY
		BRIDGE APPROACH SLAB
		BRIDGE DECK
		HMA NEW PAVEMENT
		SIDEWALK
		ISLAND, SPLITTER ISLAND AND TRUCK APRON

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DESIGNED BY	L. JOHNSON						
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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

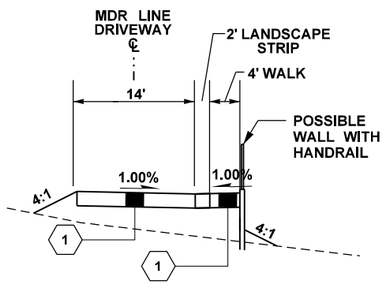
I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

PAVING PLAN

PLAN REF NO PV2

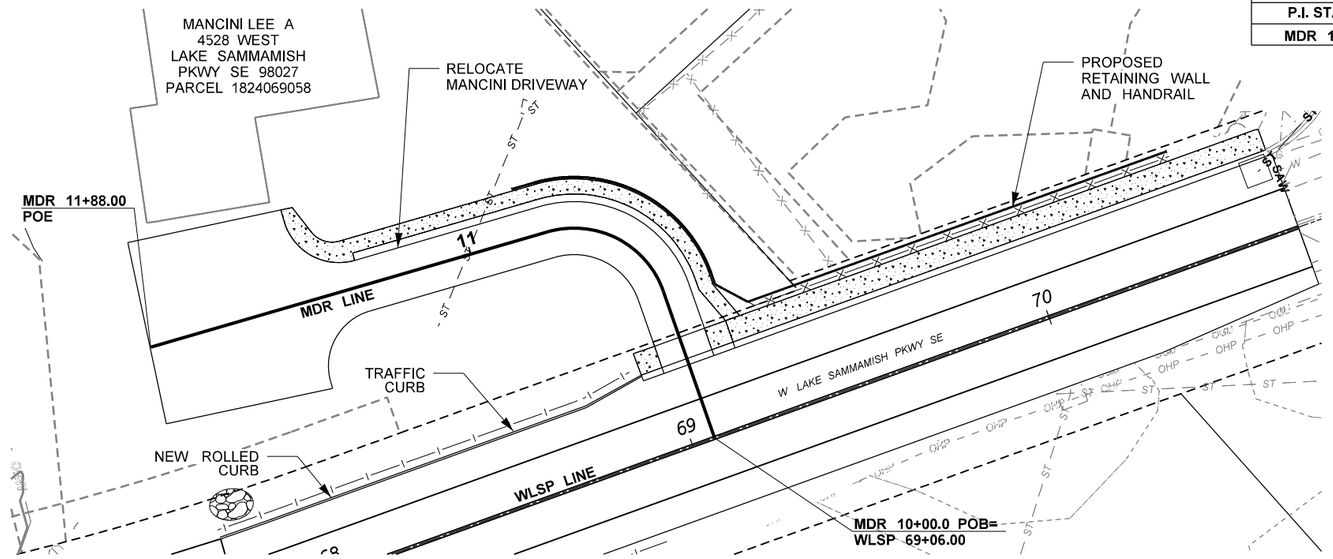
SHEET 18 OF 49 SHEETS

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
MDR 10+64.61	86°56'02.35" LT	25.00'	23.7'	37.9'	1%

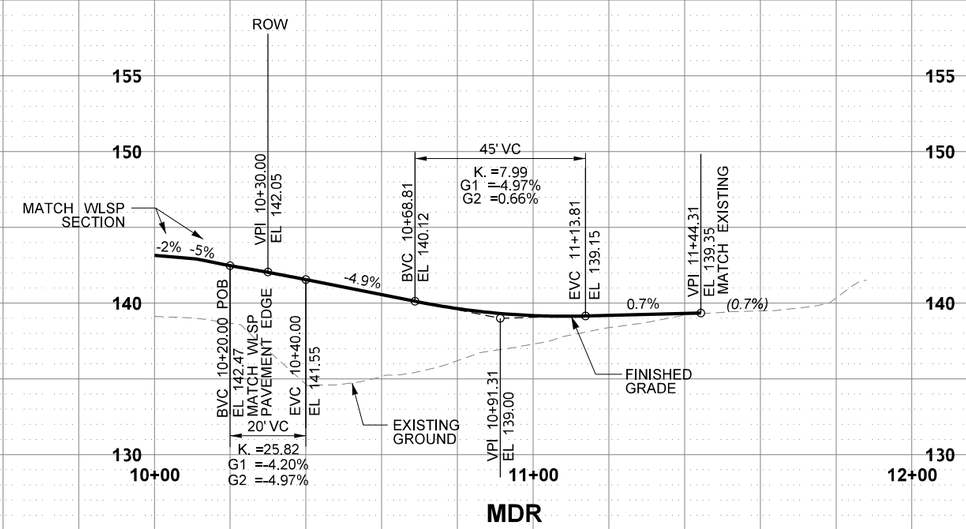


(1) FOR PAVEMENT SECTION, SEE RFP SECTION 2.7

TYPICAL DRIVEWAY SECTION



0 20 40
SCALE IN FEET



0 5 10
VERTICAL SCALE IN FEET

0 20 40
HORIZONTAL SCALE IN FEET

DATUM
(NAVD) 88

LEGEND

EXISTING	NEW	
		WETLAND BOUNDARY
		WETLAND BUFFER
		EDGE PAVEMENT
		EDGE GRAVEL
		GUARDRAIL
		CABLE BARRIER
		LANE LINE
		CENTER LANE LINE
		EDGE LINE
		WINGWALLS
		NOISE WALL
		FENCE
CUT	CUT	CONCEPTUAL GRADING LIMITS
CG	CG	CONCEPTUAL CLEARING LIMITS
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		EXISTING LIMITED ACCESS RIGHT OF WAY
		BRIDGE APPROACH SLAB
		BRIDGE DECK
		HMA NEW PAVEMENT
		SIDEWALK

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DESIGNED BY	L. JOHNSON
ENTERED BY	L. JOHNSON
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-6703		
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

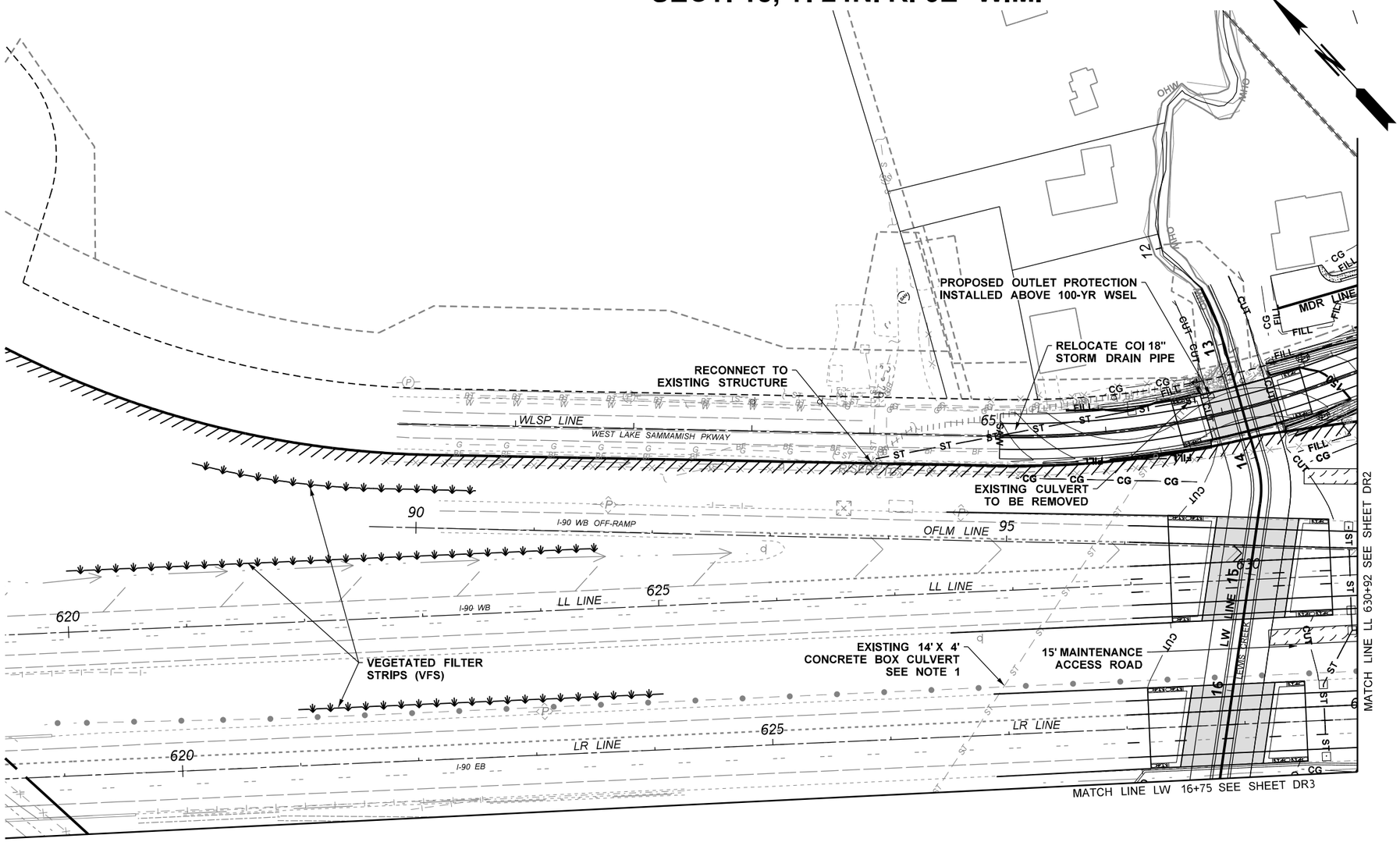
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

DRIVEWAY PLAN AND PROFILE

PLAN REF. NO. RD1

SHEET 19 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.



GENERAL NOTES

1. A PORTION OF EXISTING LEWIS CREEK 14'X4' BOX CULVERT TO BE REMOVED AT THE LOCATIONS WHERE THE PROPOSED STREAM AND STRUCTURES WILL BE LOCATED. THE REST OF THE BOX CULVERT SHALL BE ABANDONED AND FILLED WITH CONTROLLED DENSITY FILL.

LEGEND

EXISTING	NEW	
		STREAM BUFFER
		EDGE PAVEMENT
		EDGE GRAVEL
		GUARDRAIL
		LANE LINE
		EDGE LINE
		WALLS
		CURB AND GUTTER
		CURB TRAFFIC ISLAND
OP		ABOVE GROUND POWER
		REMOVE UTILITY
		DITCH
OHW		ORDINARY HIGH WATER
		CULVERT
ST	ST	STORM SEWER LINE
S		SANITARY SEWER LINE
		CATCH BASIN
		BRIDGE DRAIN
		MANHOLE
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		LIMITED ACCESS
		EXISTING LIMITED ACCESS AND RIGHT OF WAY
		QUARRY SPALL
		VEGETATED FILTER STRIP
	MFD	MEDIA FILTER DRAIN
		COMPOST AMENDED BIOFILTRATION SWALE (CABS)

0 50 100
SCALE IN FEET

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PROJ. ENGR.	T. NAU					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6703		
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

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

DRAINAGE PLAN

PLAN REF NO
DR1

SHEET 20 OF 49 SHEETS

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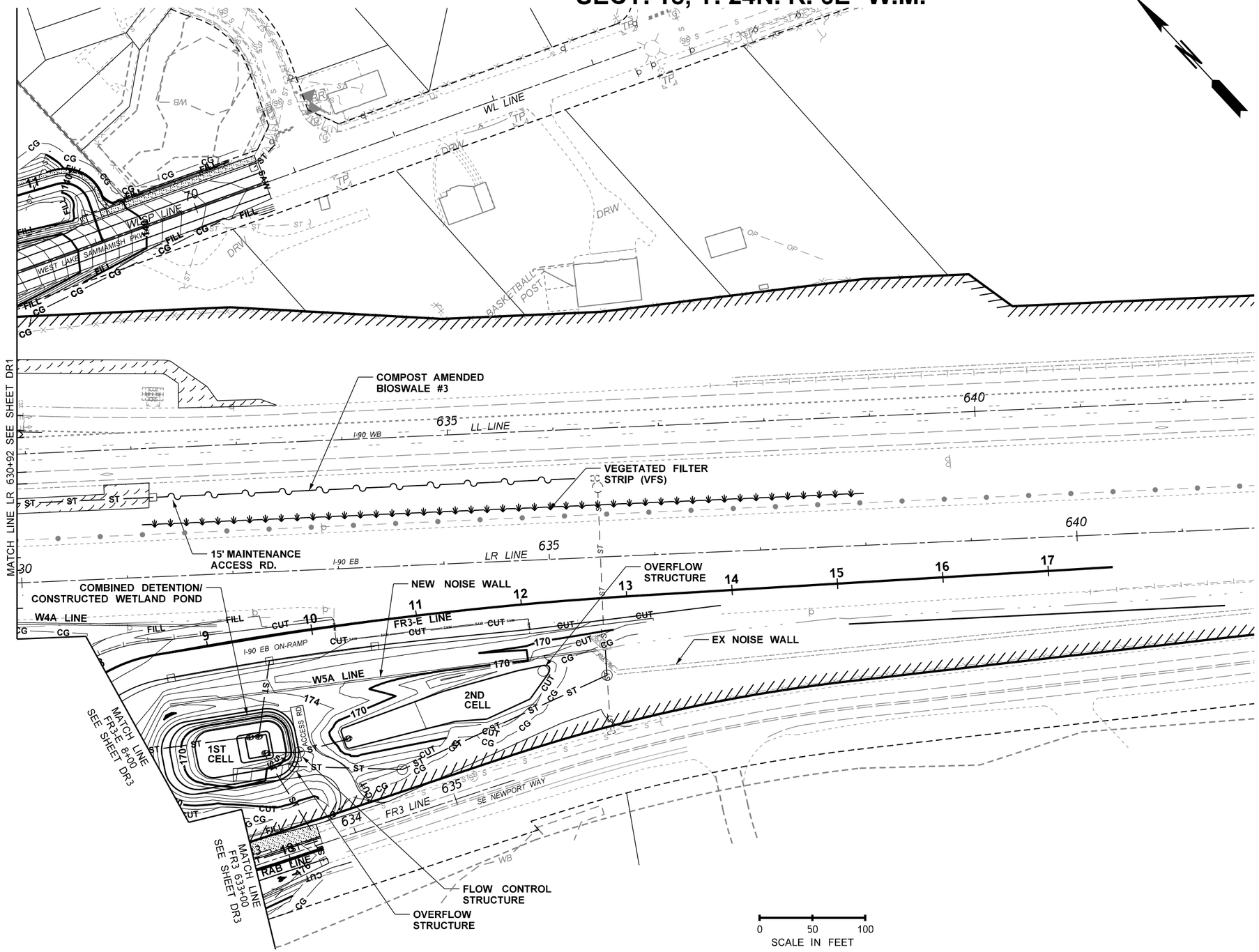

GENERAL NOTES

1. A PORTION OF EXISTING LEWIS CREEK 14'X4' BOX CULVERT TO BE REMOVED AT THE LOCATIONS WHERE THE PROPOSED STREAM AND STRUCTURES WILL BE LOCATED. THE REST OF THE BOX CULVERT SHALL BE ABANDONED AND FILLED WITH CONTROLLED DENSITY FILL.

LEGEND

EXISTING	NEW	
		STREAM BUFFER
		EDGE PAVEMENT
		EDGE GRAVEL
		GUARDRAIL
		LANE LINE
		EDGE LINE
		WALLS
		CURB AND GUTTER
		CURB TRAFFIC ISLAND
OP		ABOVE GROUND POWER
		REMOVE UTILITY
		DITCH
OHW		ORDINARY HIGH WATER
		CULVERT
ST	ST	STORM SEWER LINE
S		SANITARY SEWER LINE
		CATCH BASIN
		BRIDGE DRAIN
		MANHOLE
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		LIMITED ACCESS
		EXISTING LIMITED ACCESS AND RIGHT OF WAY
		QUARRY SPALL
		VEGETATED FILTER STRIP
MFD		MEDIA FILTER DRAIN
		COMPOST AMENDED BIOFILTRATION SWALE (CABS)

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CHECKED BY	T. LEE
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

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

JOB NUMBER XL-6703

CONTRACT NO. | LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE

P.E. STAMP BOX

DATE

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Washington State Department of Transportation

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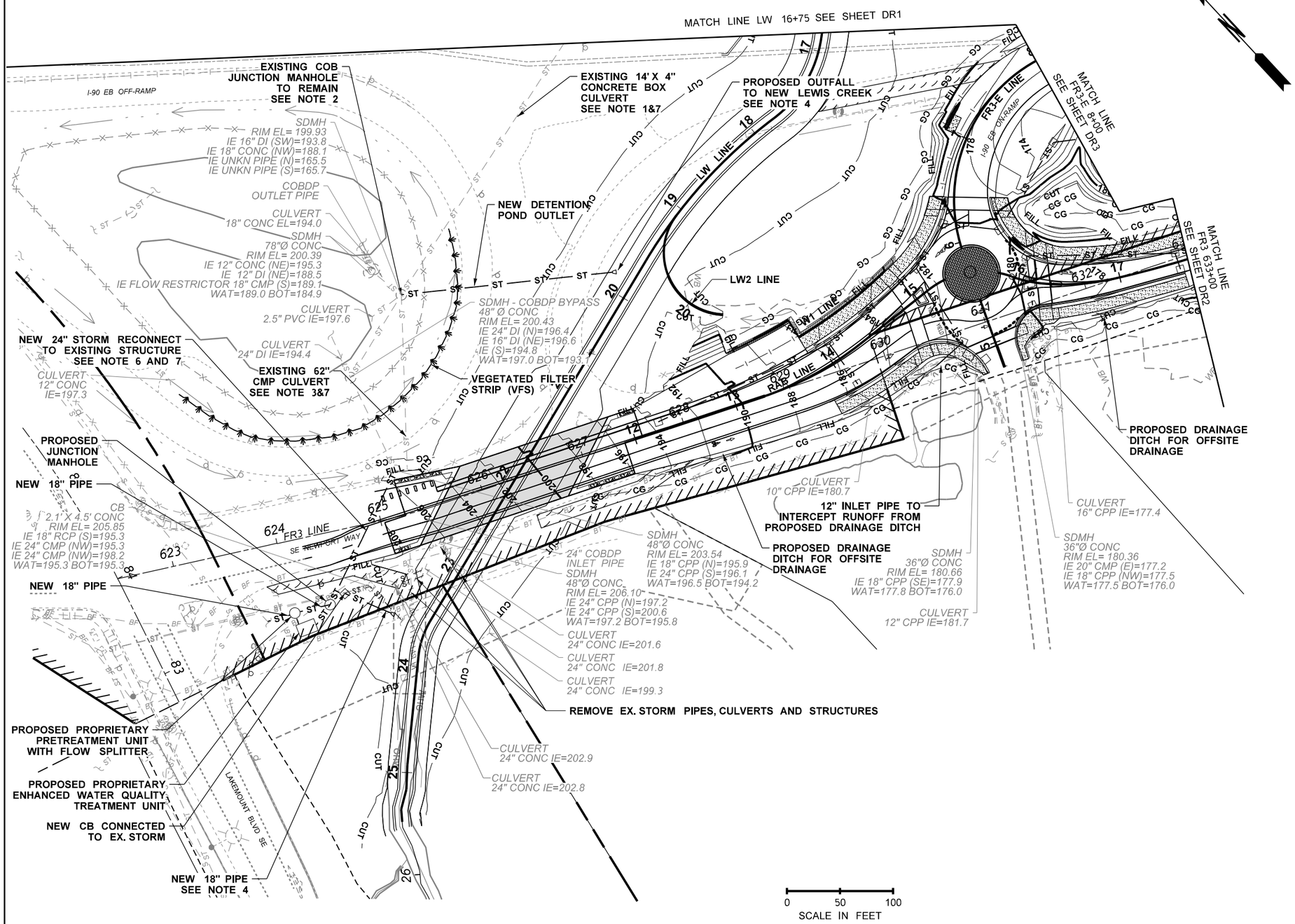
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

DRAINAGE PLAN

PLAN REF NO DR2

SHEET 21 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.



LEGEND

EXISTING	NEW	
		STREAM BUFFER
		EDGE PAVEMENT
		EDGE GRAVEL
		GUARDRAIL
		LANE LINE
		EDGE LINE
		WALLS
		CURB AND GUTTER
		CURB TRAFFIC ISLAND
- OP —		ABOVE GROUND POWER
		REMOVE UTILITY
		DITCH
— OHW —		ORDINARY HIGH WATER
		CULVERT
- ST — —	- ST ——	STORM SEWER LINE
- S — —		SANITARY SEWER LINE
		CATCH BASIN
		BRIDGE DRAIN
		MANHOLE
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		LIMITED ACCESS
		EXISTING LIMITED ACCESS AND RIGHT OF WAY
		QUARRY SPALL
		VEGETATED FILTER STRIP
	- MFD ——	MEDIA FILTER DRAIN
		COMPOST AMENDED BIOFILTRATION SWALE (CABS)

GENERAL NOTES

1. A PORTION OF EXISTING LEWIS CREEK 14'X4' BOX CULVERT TO BE REMOVED AT THE LOCATIONS WHERE THE PROPOSED STREAM AND STRUCTURES WILL BE LOCATED. THE REST OF THE BOX CULVERT SHALL BE ABANDONED AND FILLED WITH CONTROLLED DENSITY FILL.
2. EXISTING CITY OF BELLEVUE (COB) JUNCTION MANHOLE TO REMAIN. PLUG THE OPENINGS TO THE EXISTING LEWIS CREEK CULVERTS IN THE MANHOLE. NO CONTROLLED DENSITY FILL MATERIAL SHALL LEAK INTO THE MANHOLE STRUCTURE. RECHANNELIZE THE BOTTOM OF THE MANHOLE TO FLUSH WITH THE NEW SOUTHEAST OUTLET PIPE.
3. A PORTION OF EXISTING LEWIS CREEK 62" CMP TO BE REMOVED AT THE LOCATIONS WHERE THE PROPOSED STREAM AND STRUCTURES WILL BE LOCATED. THE REST OF THE CULVERT SHALL BE ABANDONED AND FILLED WITH CONTROLLED DENSITY FILL.
4. PROPOSED OUTFALL TO SIDE SLOPE OF LEWIS CREEK CHANNEL. THE DISCHARGE SHALL BE ABOVE 100-YR WATER SURFACE ELEVATION. ENERGY DISSIPATER SHALL BE INSTALLED AT THE DISCHARGE.
5. RECONSTRUCT ANY EXISTING FEATURES FROM CITY OF BELLEVUE DETENTION POND IF IMPACTED. SEE AS-BUILT PLANS IN RFP APPENDIX N.
6. DESIGN BUILDER SHALL VERIFY THE EXISTING DRAINAGE SYSTEMS AND STRUCTURES.
7. CITY OF BELLEVUE DETENTION POND AS-BUILT IS PROVIDED IN RFP APPENDIX N.

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ENTERED BY	J. FENG
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-6703		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

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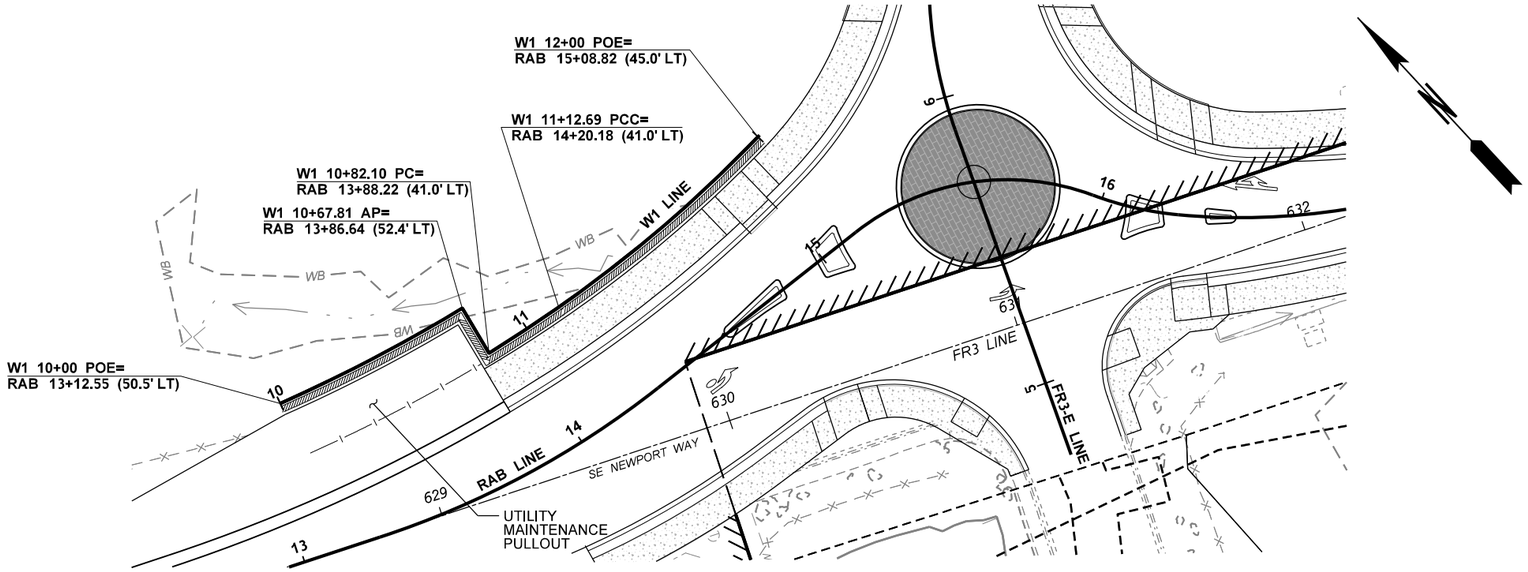
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

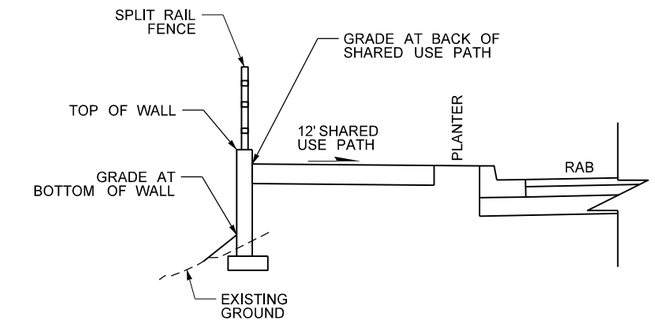
DRAINAGE PLAN

PLAN REF NO DR3

SHEET 22 OF 49 SHEETS



WALL 1 (W1) PLAN



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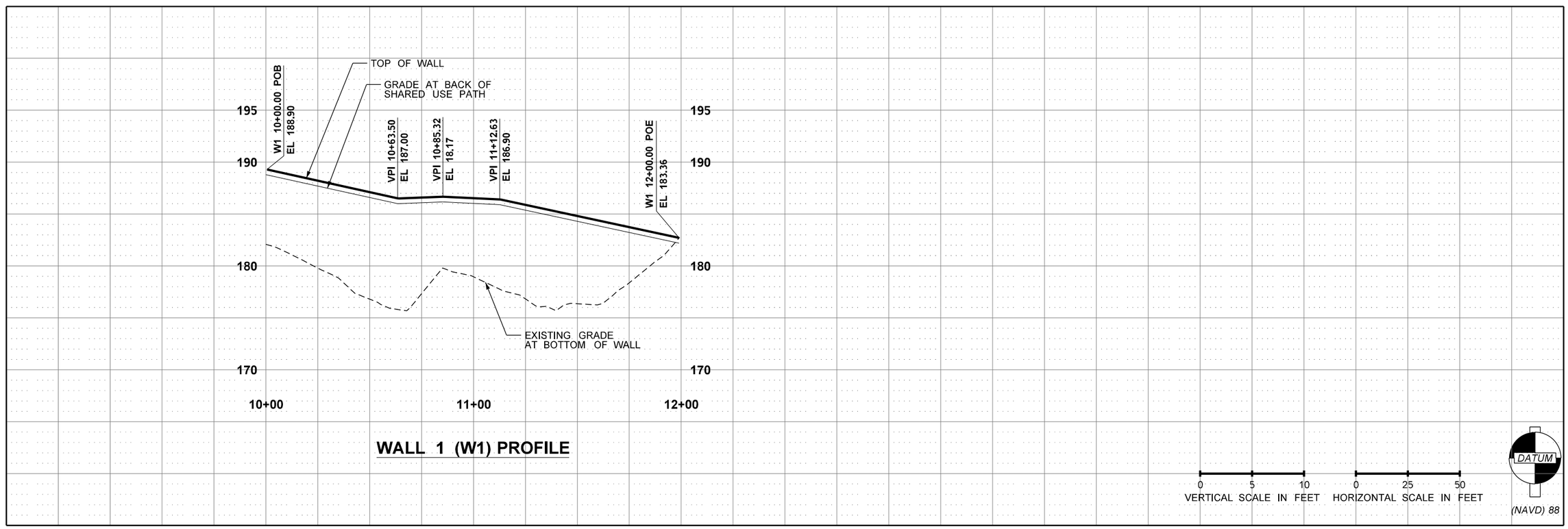

WALL 1 (W1) PROFILE

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DESIGNED BY	L. JOHNSON				
ENTERED BY	L. JOHNSON				
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-6703
CONTRACT NO. | LOCATION NO.

CONCEPTUAL DESIGN
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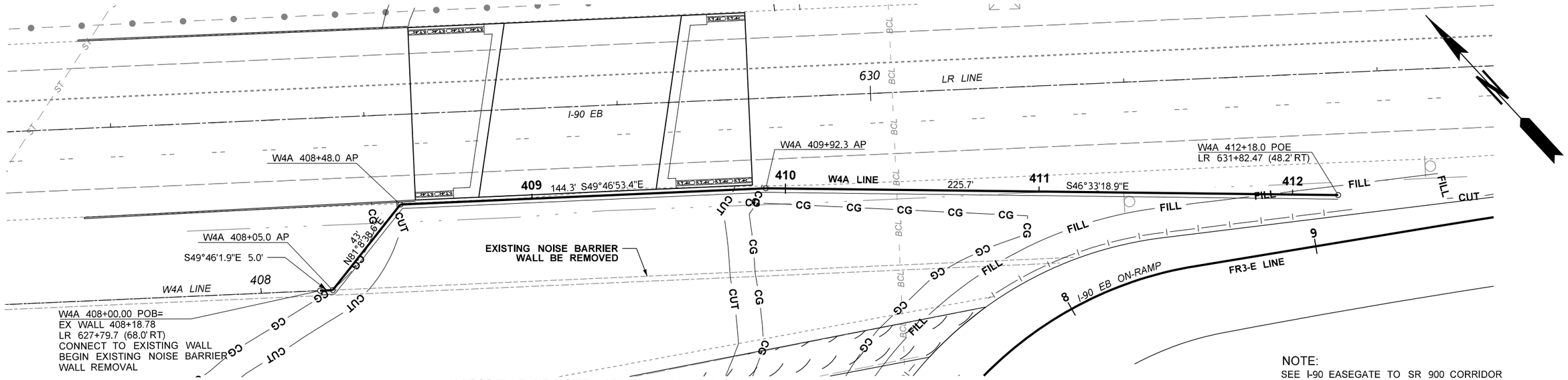
Washington State
Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

WALL PLAN AND PROFILE

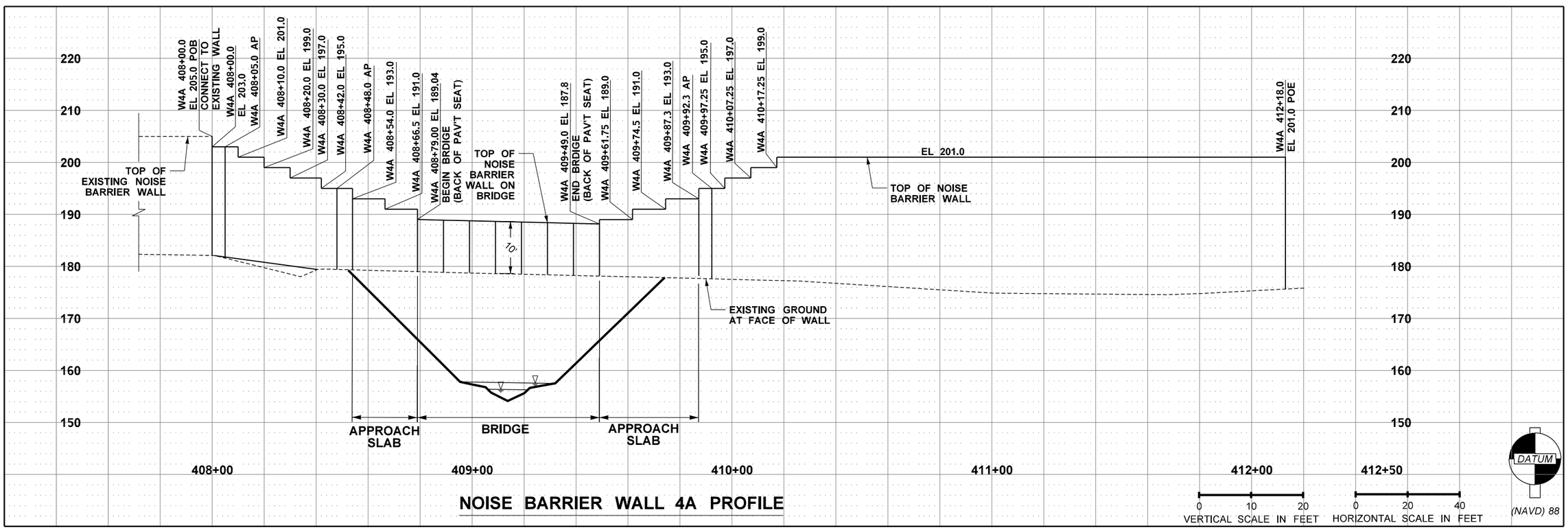
PLAN REF. NO. ST1

SHEET 23 OF 49 SHEETS



NOISE BARRIER WALL 4A PLAN

NOTE:
SEE I-90 EASEGATE TO SR 900 CORRIDOR IMPROVEMENT PLANS IN RFP APPENDIX N FOR EXISTING NOISE WALL 4 DETAILS



NOISE BARRIER WALL 4A PROFILE

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ENTERED BY	L. JOHNSON						
CHECKED BY	V. DELGADO				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN
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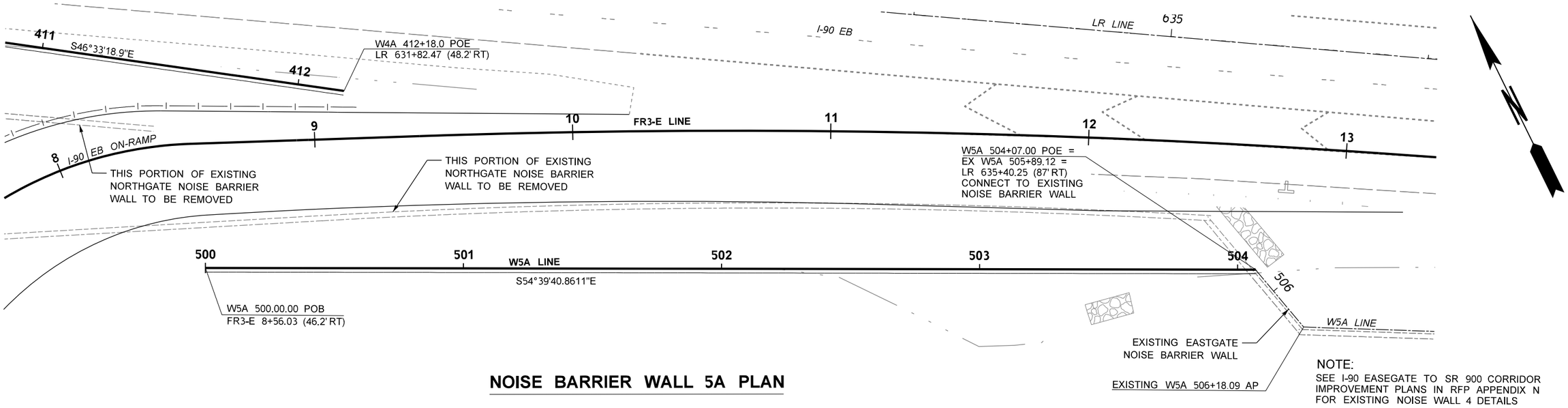
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

NOISE BARRIER WALL 4A PLAN AND PROFILE

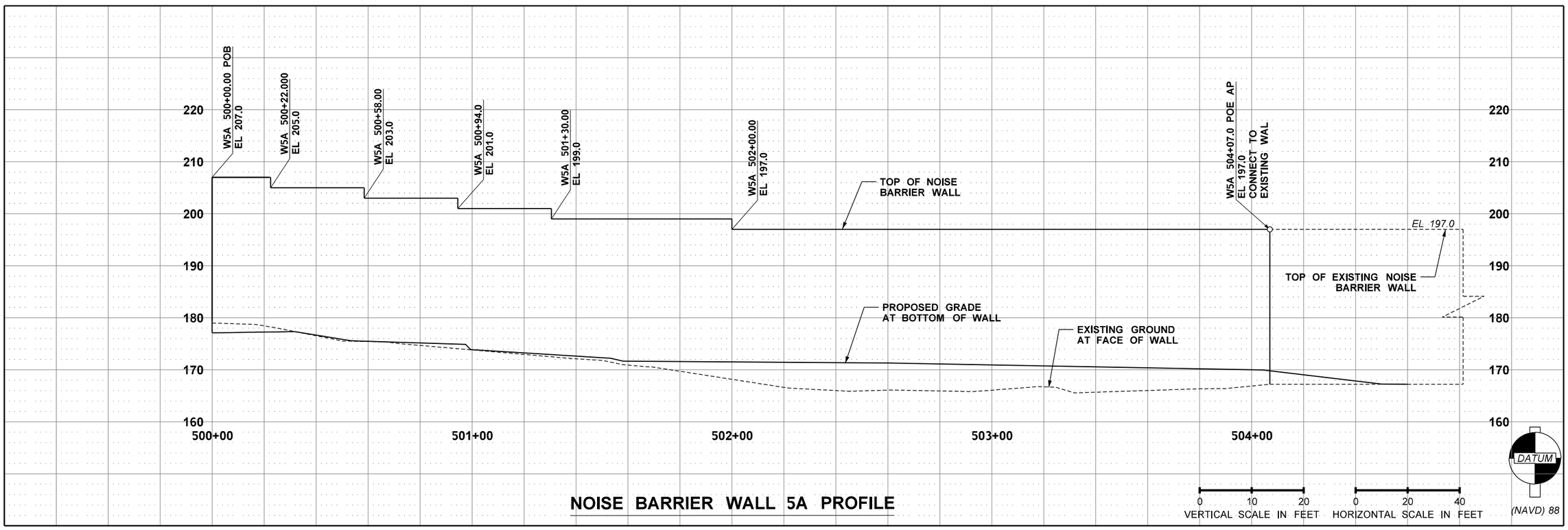
PLAN REF. NO. ST2

SHEET 24 OF 49 SHEETS



NOISE BARRIER WALL 5A PLAN

NOTE:
SEE I-90 EASEGATE TO SR 900 CORRIDOR IMPROVEMENT PLANS IN RFP APPENDIX N FOR EXISTING NOISE WALL 4 DETAILS



NOISE BARRIER WALL 5A PROFILE

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PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6703		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

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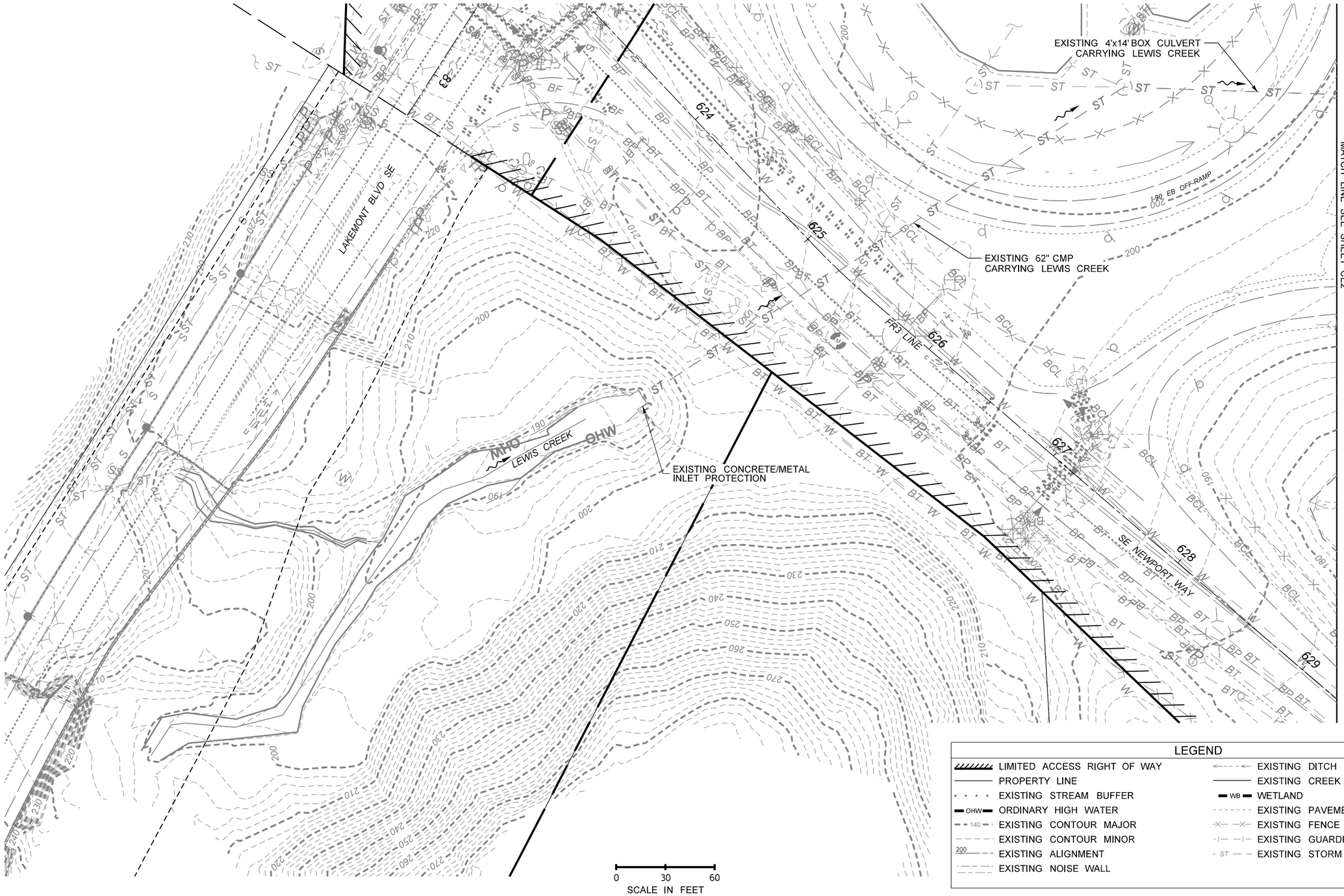
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

NOISE BARRIER WALL 5A PLAN AND PROFILE

PLAN REF. NO. ST3

SHEET 25 OF 49 SHEETS



LEGEND

LIMITED ACCESS RIGHT OF WAY	EXISTING DITCH
PROPERTY LINE	EXISTING CREEK THALWEG
EXISTING STREAM BUFFER	WETLAND
ORDINARY HIGH WATER	EXISTING PAVEMENT EDGE
EXISTING CONTOUR MAJOR	EXISTING FENCE
EXISTING CONTOUR MINOR	EXISTING GUARDRAIL
EXISTING ALIGNMENT	EXISTING STORM PIPE/CULVERT
EXISTING NOISE WALL	

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PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION | DATE | BY

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

JOB NUMBER

CONTRACT NO. | LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

P.E. STAMP BOX DATE

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Washington State Department of Transportation

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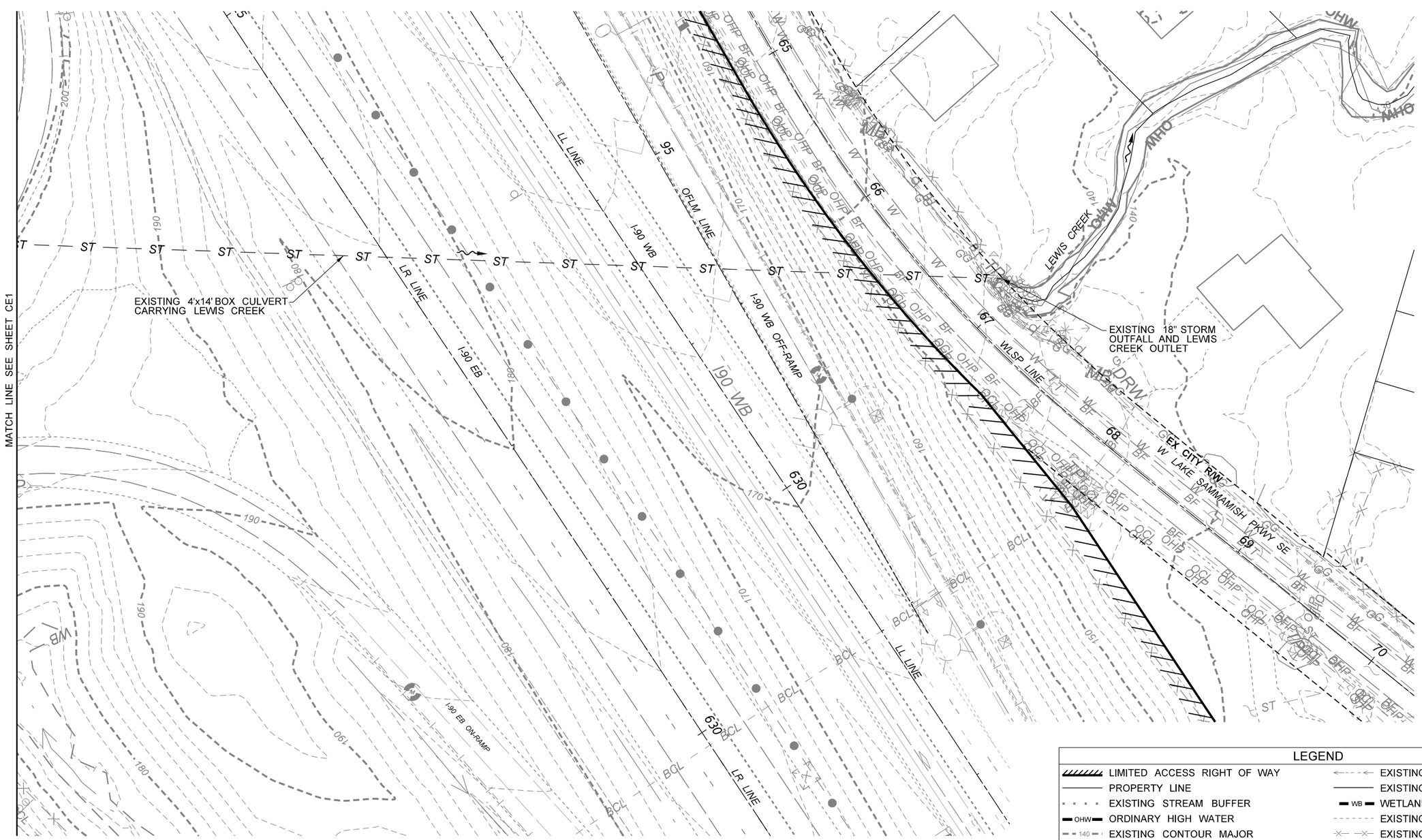
I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

EXISTING CREEK PLAN

PLAN REF NO CE1

SHEET 26 OF 49 SHEETS



0 30 60
SCALE IN FEET

LEGEND

LIMITED ACCESS RIGHT OF WAY	EXISTING DITCH
PROPERTY LINE	EXISTING CREEK THALWEG
EXISTING STREAM BUFFER	WETLAND
ORDINARY HIGH WATER	EXISTING PAVEMENT EDGE
EXISTING CONTOUR MAJOR	EXISTING FENCE
EXISTING CONTOUR MINOR	EXISTING GUARDRAIL
EXISTING ALIGNMENT	EXISTING STORM PIPE/CULVERT
EXISTING NOISE WALL	

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PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

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

CONCEPTUAL DESIGN
NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation
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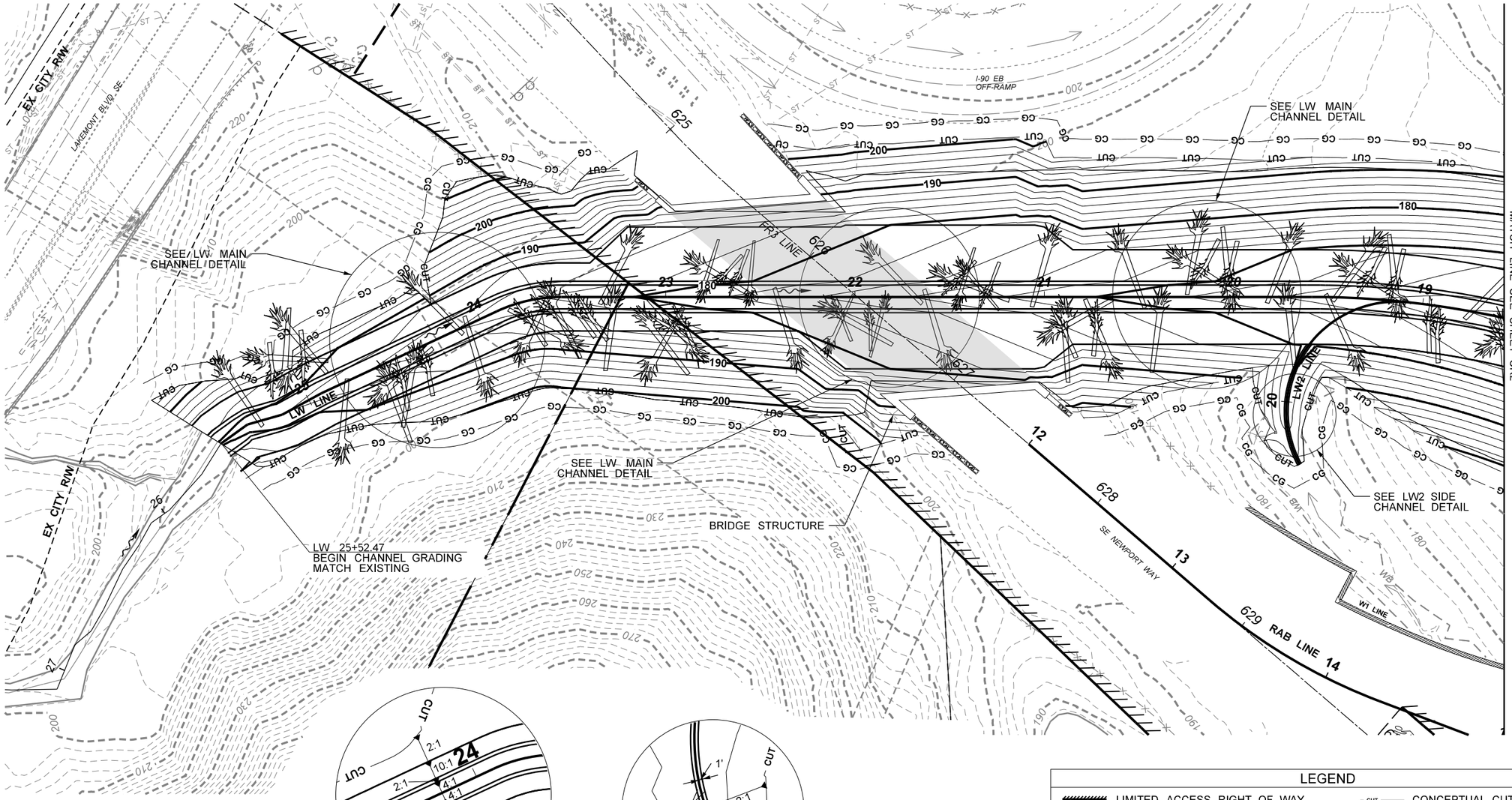
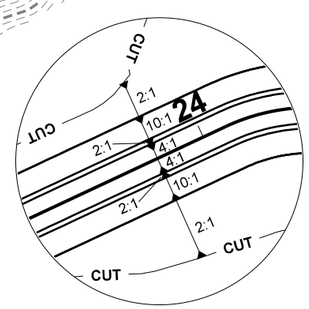
I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

EXISTING CREEK PLAN

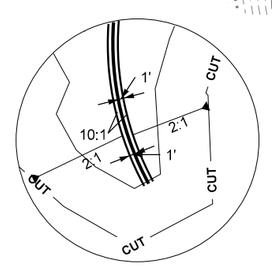
PLAN REF NO
CE2

SHEET 27 OF 49 SHEETS





LW MAIN CHANNEL DETAIL



LW2 SIDE CHANNEL DETAIL

0 30 60
SCALE IN FEET

GENERAL NOTES

1. PROPOSED STRUCTURES SHALL NOT ENCROACH INTO THE LEWIS CREEK CHANNEL SFZ AS DIMENSIONED ON CREEK DETAIL PLAN.
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 APPENDIX H.
4. CONCEPTUAL GRADING LIMITS SHOWN FOR ILLUSTRATION PURPOSES ONLY, FINAL GRADING LIMITS TO BE DETERMINED BY THE DESIGN-BUILDER.

LEGEND

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

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PROJ. ENGR.	T. NAU						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

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P.E. STAMP BOX

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Washington State Department of Transportation
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I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

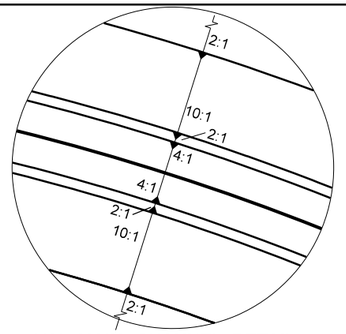
CREEK PLAN

PLAN REF NO CR1

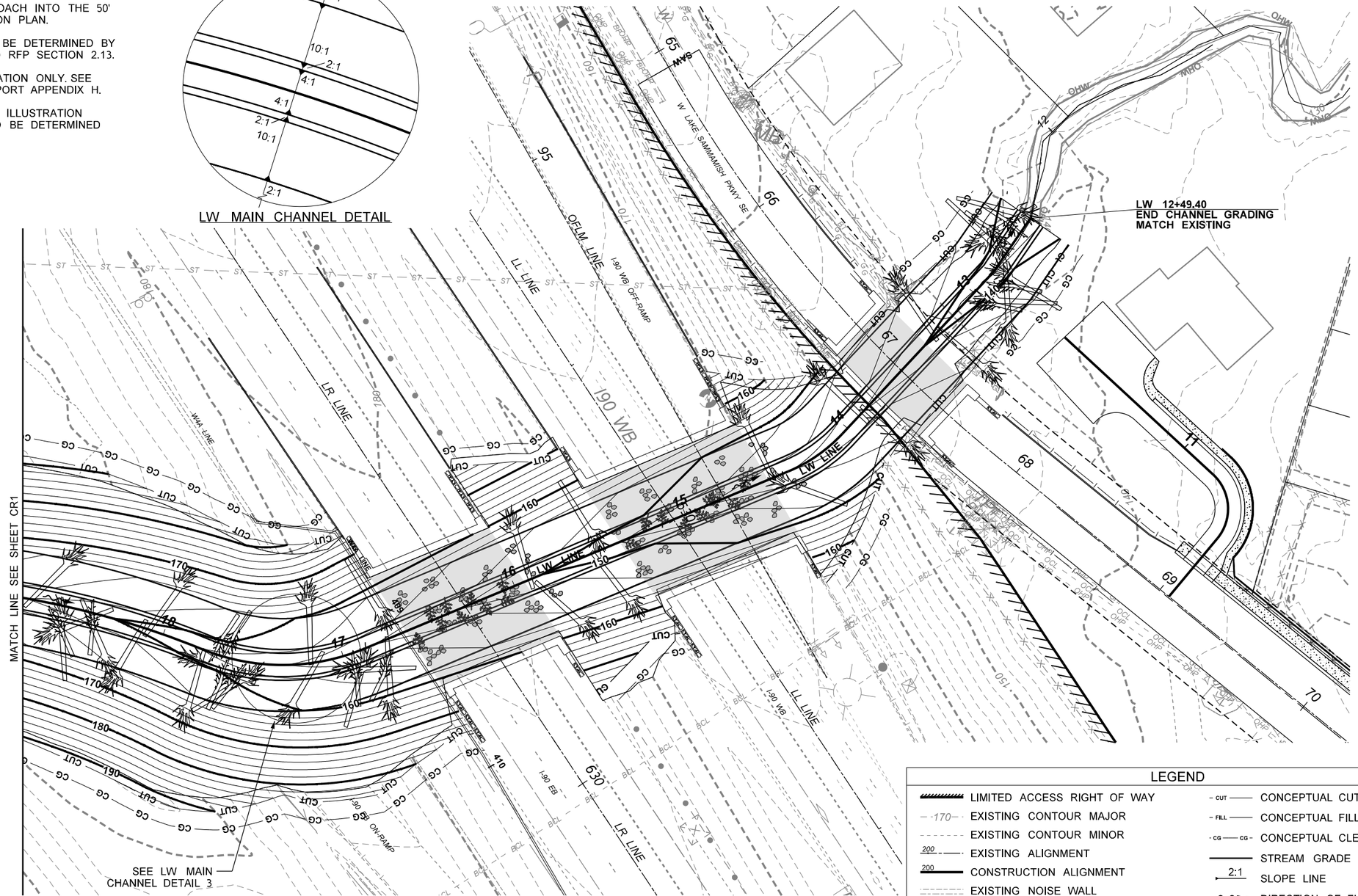
SHEET 28 OF 49 SHEETS

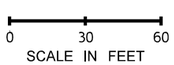
GENERAL NOTES

1. PROPOSED STRUCTURES SHALL NOT ENCROACH INTO THE 50' LEWIS CREEK CHANNEL AS DIMENSIONED ON PLAN.
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 APPENDIX H.
4. CONCEPTUAL GRADING LIMITS SHOWN FOR ILLUSTRATION PURPOSES ONLY, FINAL GRADING LIMITS TO BE DETERMINED BY THE DESIGN-BUILDER.



LW MAIN CHANNEL DETAIL





LEGEND

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

FILE NAME	c:\caddllb\pw\vdelgado\west\d0183424\XL6703_PS_CR_002.DGN				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	4:55:16 PM				JOB NUMBER XL-6703		
DATE	10/10/2023				CONTRACT NO.		LOCATION NO.
PLOTTED BY	vdelgado						
DESIGNED BY	L. JOHNSON						
ENTERED BY	L. JOHNSON						
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

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

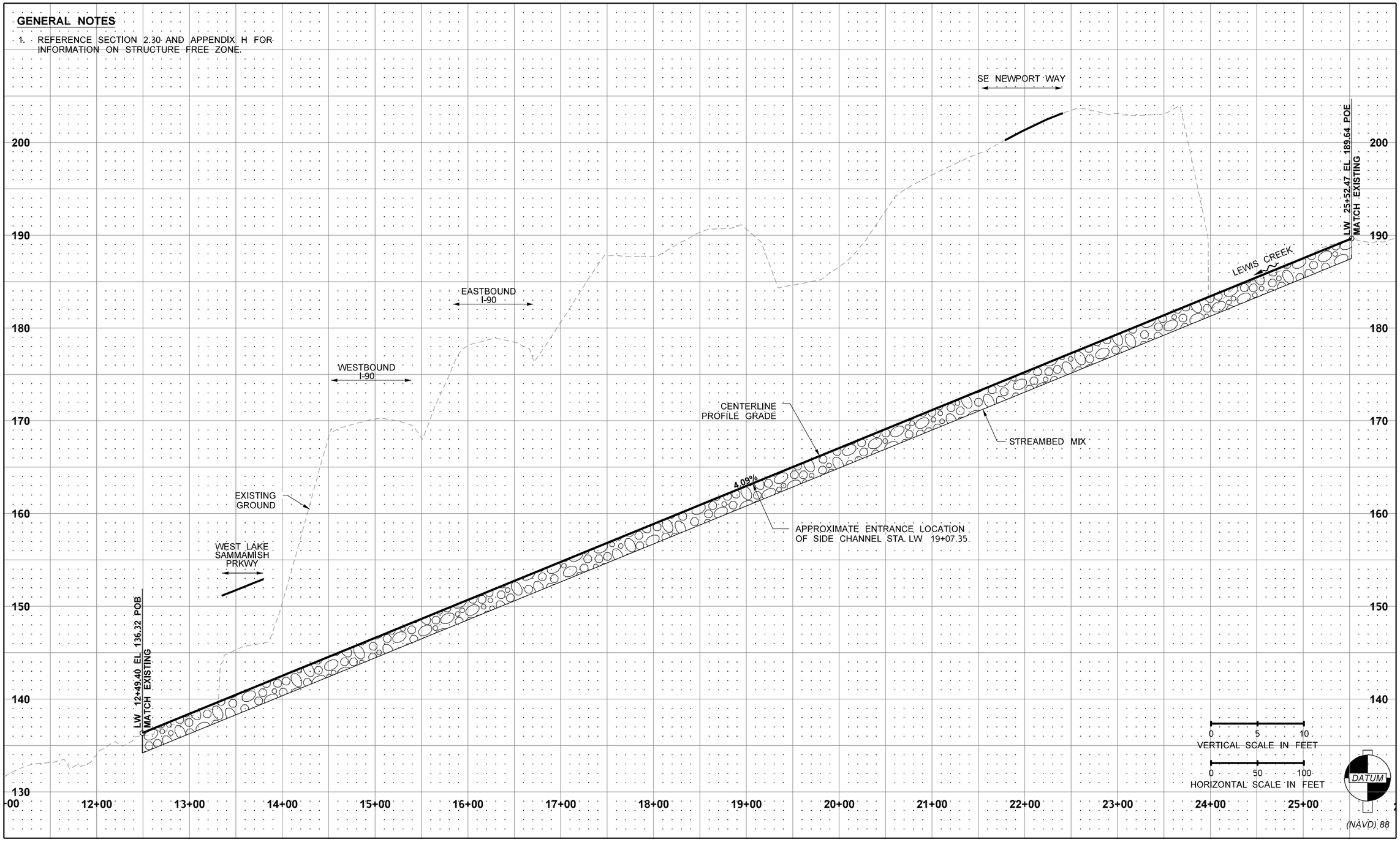
CREEK PLAN

PLAN REF NO CR2

SHEET 29 OF 49 SHEETS

GENERAL NOTES

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



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DATE	10/10/2023						
PLOTTED BY	lsimanek						
DESIGNED BY	L. JOHNSON						
ENTERED BY	L. JOHNSON						
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-6703		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE
P.E. STAMP BOX

DATE
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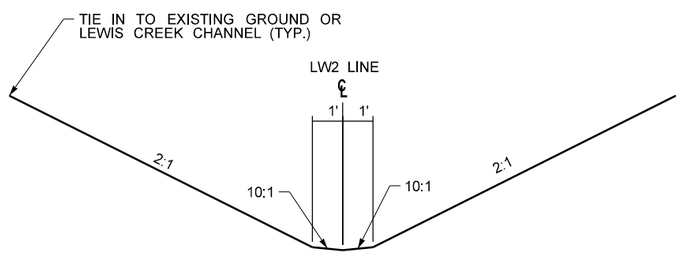
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

CREEK PROFILE

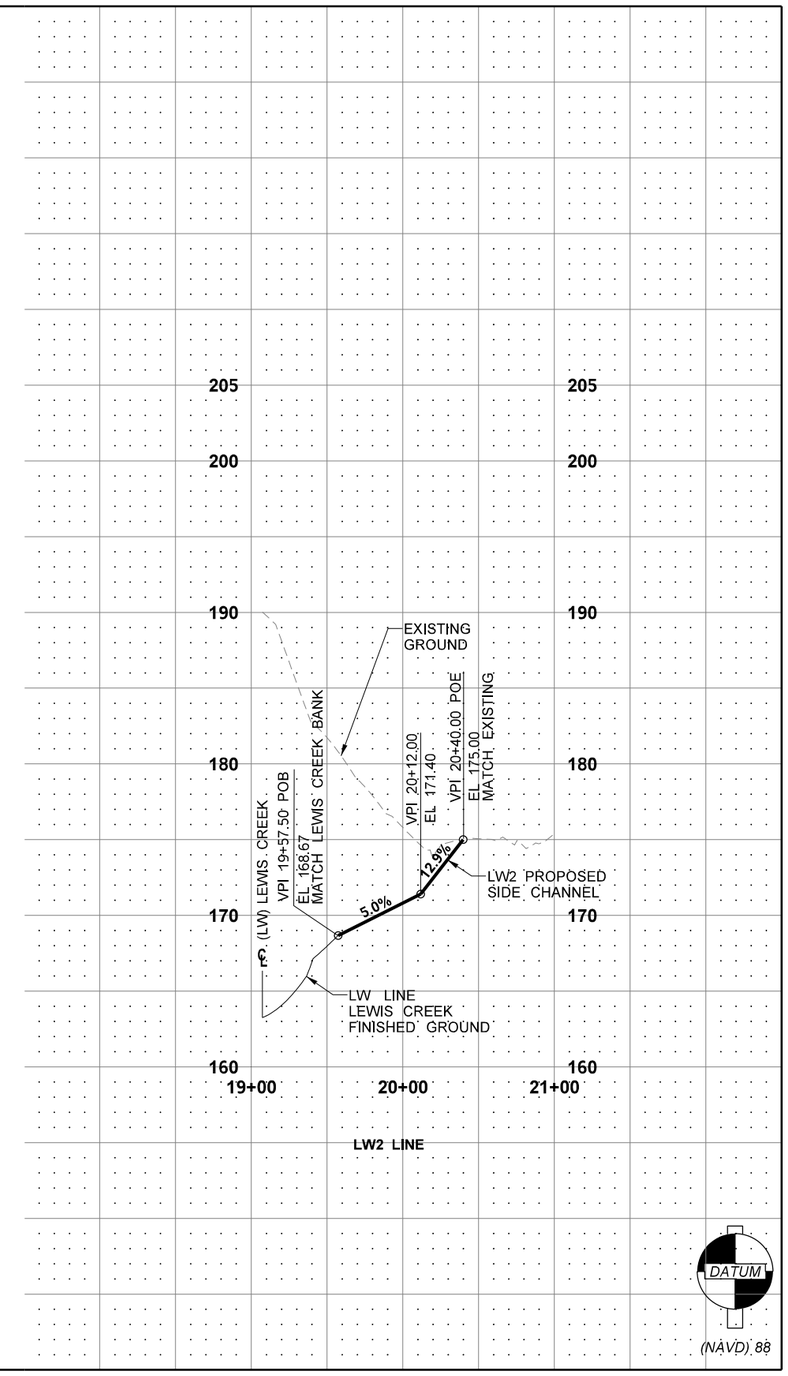
PLAN REF. NO. CP1

SHEET 30 OF 49 SHEETS



TYPICAL CROSS SECTION - SIDE CHANNEL

NTS



0 5 10
VERTICAL SCALE IN FEET

0 50 100
HORIZONTIAL SCALE IN FEET

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0183424\XL6703_PR_CP_002.DGN					
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DATE	10/10/2023					
PLOTTED BY	lsimanek				JOB NUMBER XL-6703	
DESIGNED BY	L. JOHNSON					
ENTERED BY	L. JOHNSON					
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

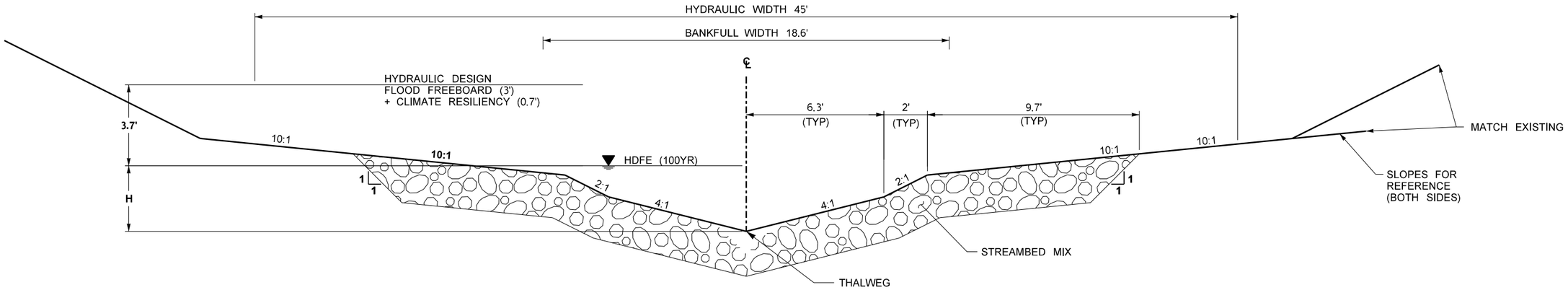
Washington State
Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

CREEK PROFILE

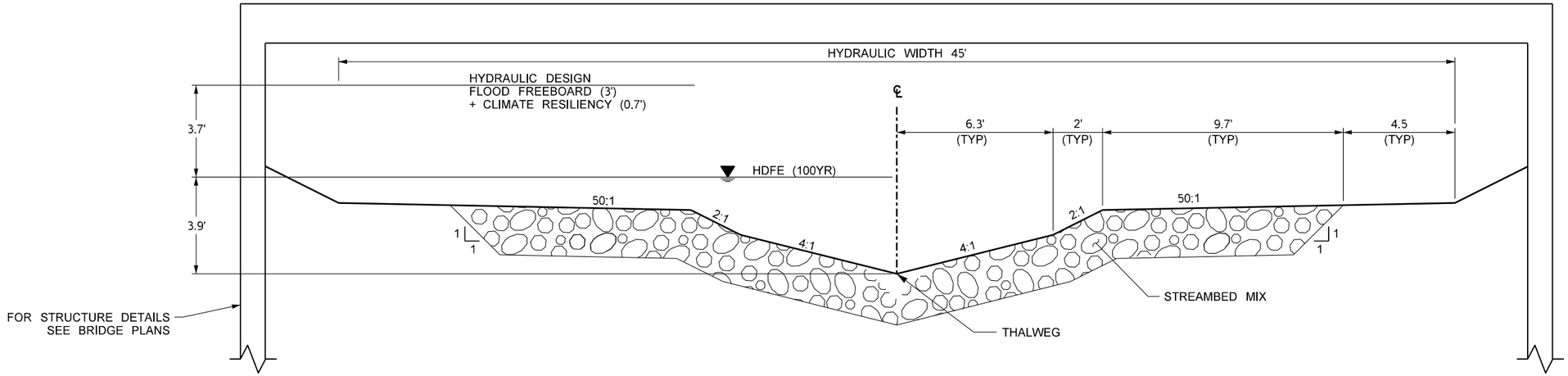
PLAN REF. NO.
CP2

SHEET
31
OF
49
SHEETS



TYPICAL SECTION - OPEN MEDIAN

H = W LAKE SAMMAMISH PKWY = 3.9'
H = I-90 WB = 4.1'
H = I-90 EB = 4.2'
H = SE NEWPORT WAY = 4.6'



TYPICAL SECTION - W LAKE SAMMAMISH PKWY

NOTE:

1. REFERENCE 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\d0183424\XL6703_DE_CD_001.DGN						
TIME	10:23:10 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/10/2023						
PLOTTED BY	lslmanek				JOB NUMBER XL-6703		
DESIGNED BY	L. JOHNSON						
ENTERED BY	L. JOHNSON						
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
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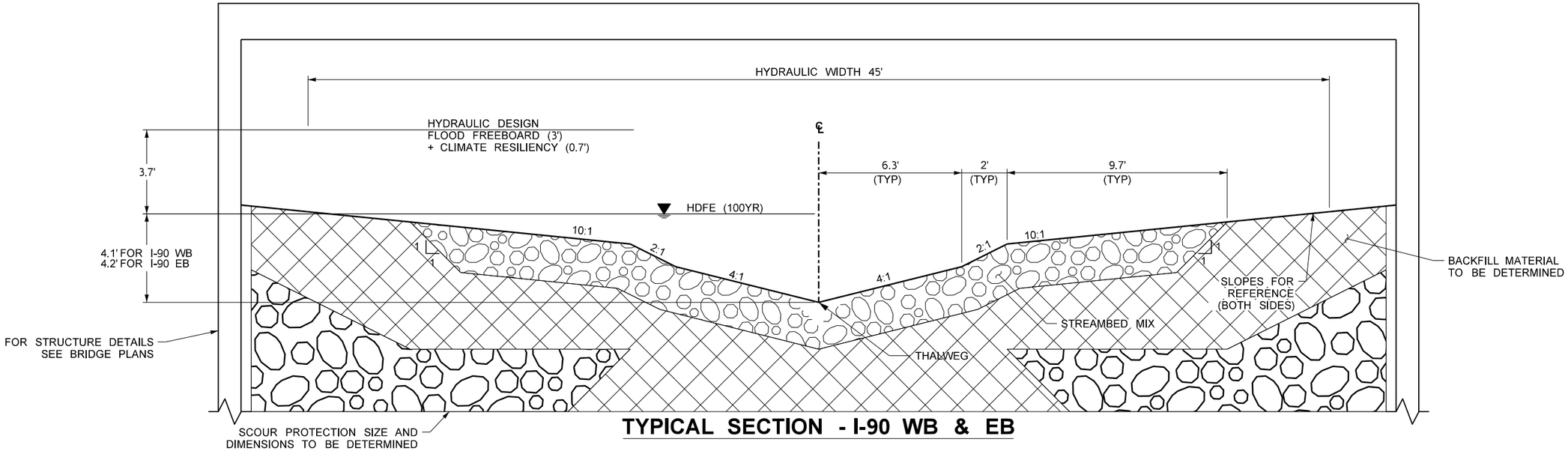
Washington State
Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

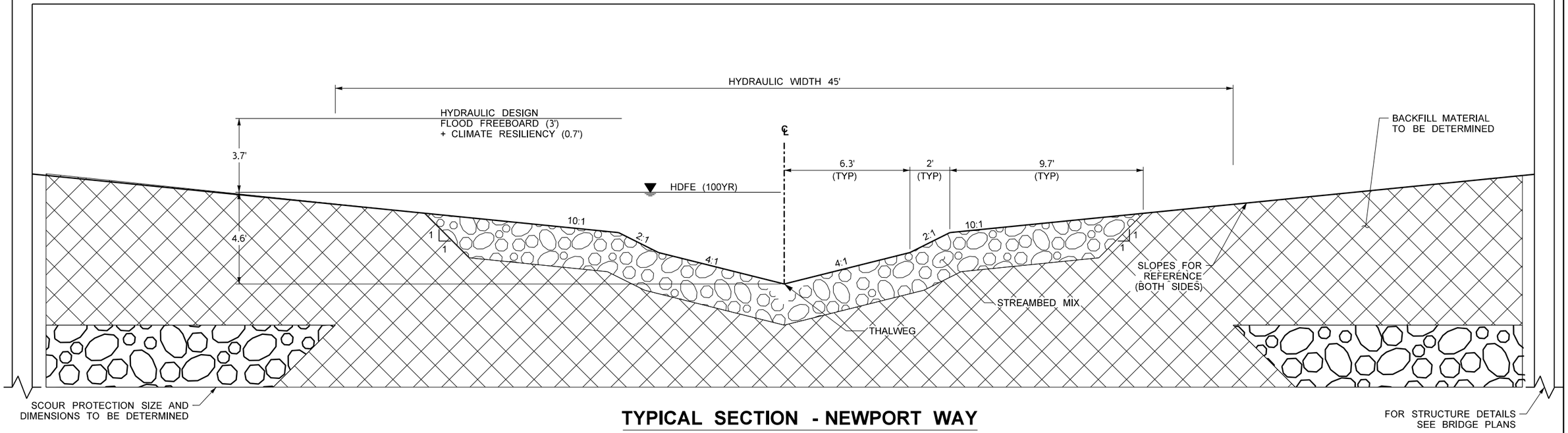
CREEK DETAILS

PLAN REF NO
CD1

SHEET 32 OF 49 SHEETS



TYPICAL SECTION - I-90 WB & EB



TYPICAL SECTION - NEWPORT WAY

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TIME	10:23:13 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/10/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6703		
DESIGNED BY	L. JOHNSON						
ENTERED BY	L. JOHNSON						
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

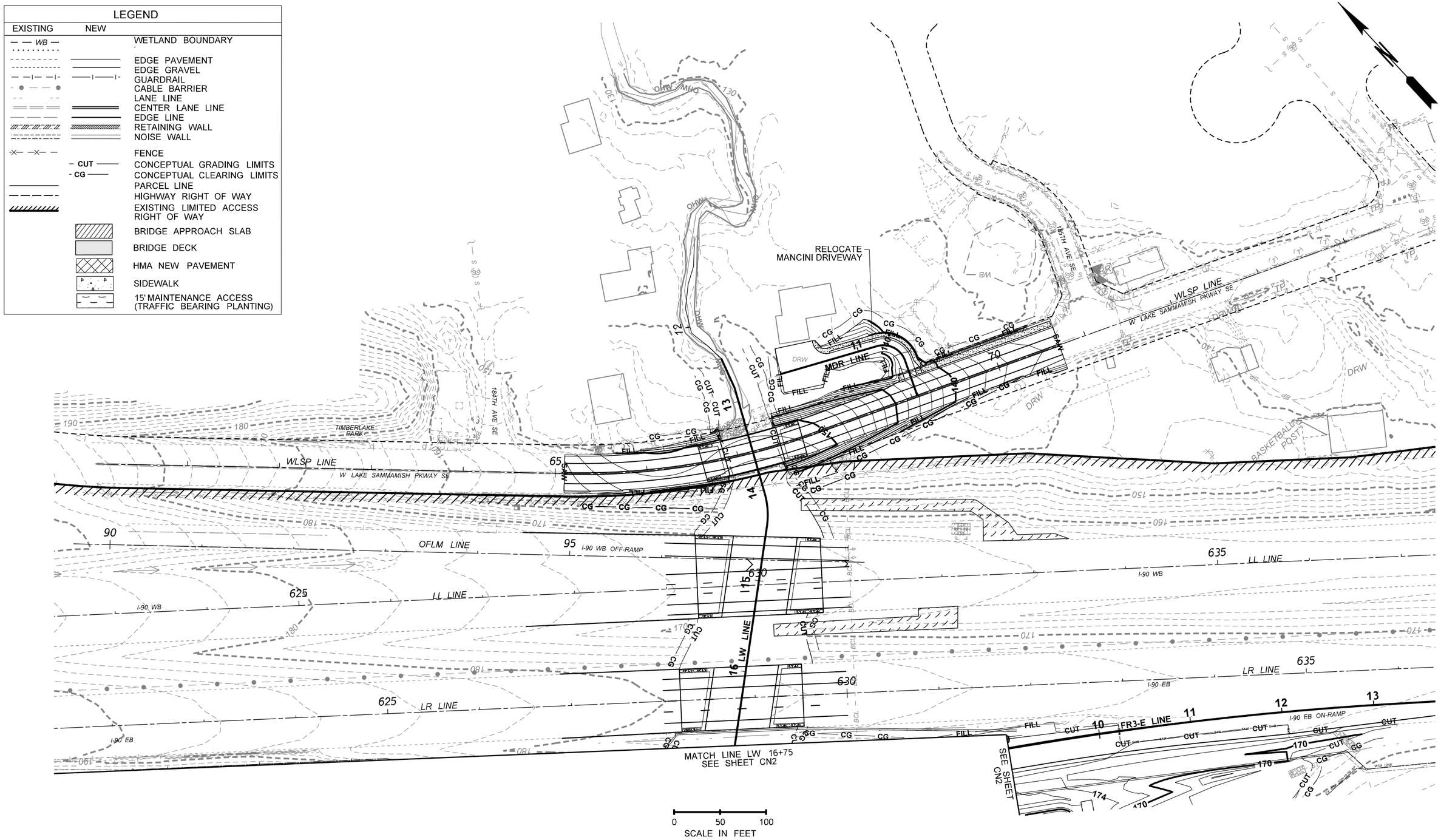
Washington State
Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

CREEK DETAILS

PLAN REF NO
CD2

SHEET
33
OF
49
SHEETS



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DATE	10/10/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6703		
DESIGNED BY	L. SIMANEK						
ENTERED BY	L. JOHNSON						
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

I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

GRADING PLAN

PLAN REF NO
CN1

SHEET 34 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.

MATCH LINE LW 16+75 SEE SHEET CN1

SEE SHEET CN1

W4A LINE

W5A LINE

I-90 EB OFF-RAMP

EB I-90 ON-RAMP

EX I-90 EB ON-RAMP

1ST CELL

2ND CELL

ACCESS RD

UTILITY MAINTENANCE PULLOUT

FR3-E LINE

FR3 LINE

RAB LINE

LW2 LINE

SE NEWPORT WAY

SR901 LINE

LAKEMONT BLVD SE

MHG

0 50 100

SCALE IN FEET

LEGEND

EXISTING	NEW	
WB		WETLAND BOUNDARY
		EDGE PAVEMENT
		EDGE GRAVEL
		GUARDRAIL
		CABLE BARRIER
		LANE LINE
		CENTER LANE LINE
		EDGE LINE
		WINGWALLS
		NOISE WALL
	SAW	SAWCUT LINE
		FENCE
	CUT	CONCEPTUAL GRADING LIMITS
	CG	CONCEPTUAL CLEARING LIMITS
		PARCEL LINE
		HIGHWAY RIGHT OF WAY
		EXISTING LIMITED ACCESS RIGHT OF WAY
		BRIDGE APPROACH SLAB
		BRIDGE DECK
		HMA NEW PAVEMENT
		SIDEWALK
		ISLAND, SPLITTER ISLAND AND TRUCK APRON

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0183423\XL6703_PS_CN_002.DGN
TIME	10:23:28 AM
DATE	10/10/2023
PLOTTED BY	lsimanek
DESIGNED BY	L. SIMANEK
ENTERED BY	L. JOHNSON
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-6703		
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

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

GRADING PLAN

PLAN REF NO CN2

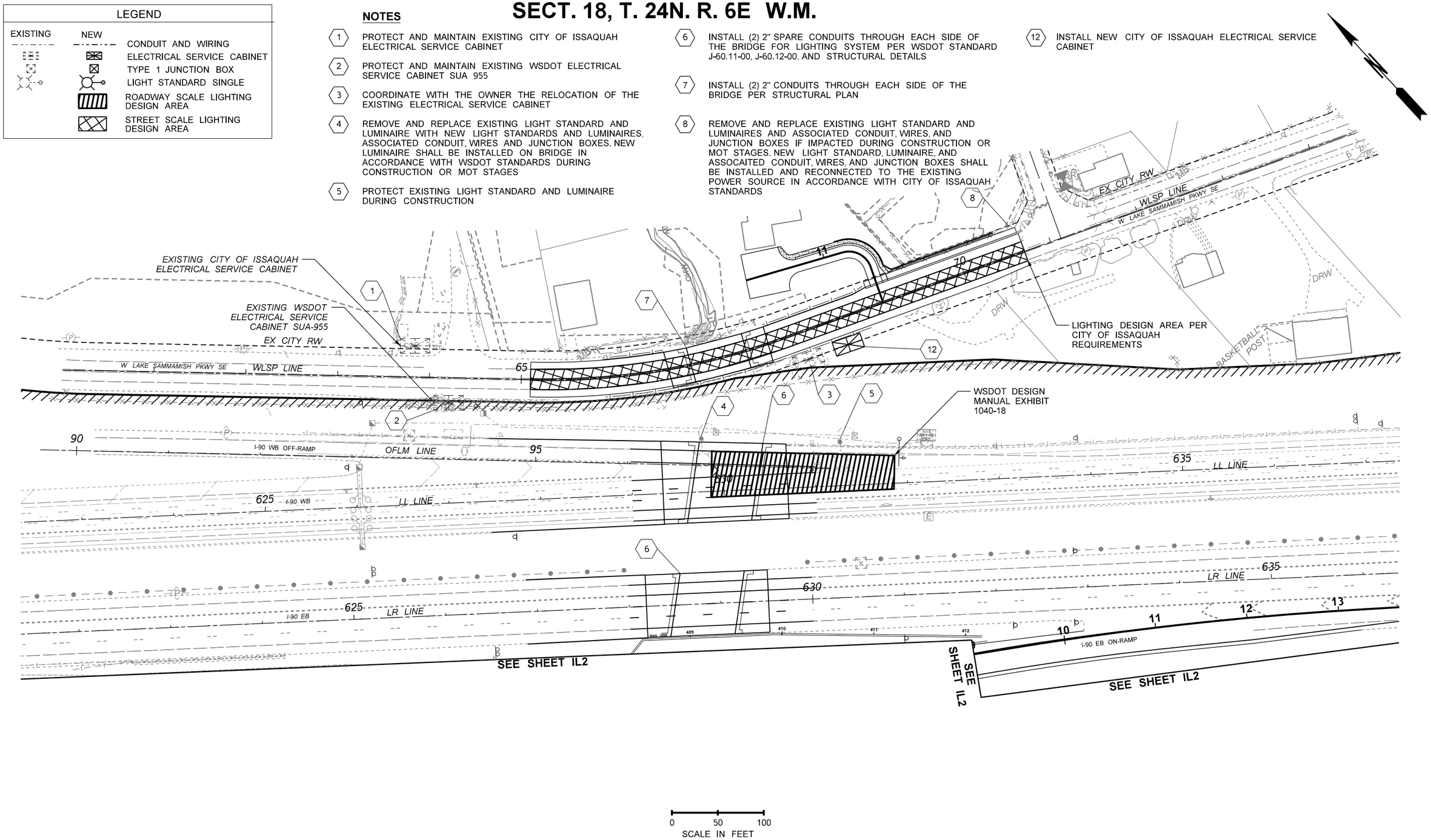
SHEET 35 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.

LEGEND		
EXISTING	NEW	
		CONDUIT AND WIRING
		ELECTRICAL SERVICE CABINET
		TYPE 1 JUNCTION BOX
		LIGHT STANDARD SINGLE
		ROADWAY SCALE LIGHTING DESIGN AREA
		STREET SCALE LIGHTING DESIGN AREA

NOTES

1. PROTECT AND MAINTAIN EXISTING CITY OF ISSAQUAH ELECTRICAL SERVICE CABINET
2. PROTECT AND MAINTAIN EXISTING WSDOT ELECTRICAL SERVICE CABINET SUA 955
3. COORDINATE WITH THE OWNER THE RELOCATION OF THE EXISTING ELECTRICAL SERVICE CABINET
4. REMOVE AND REPLACE EXISTING LIGHT STANDARD AND LUMINAIRE WITH NEW LIGHT STANDARDS AND LUMINAIRES, ASSOCIATED CONDUIT, WIRES AND JUNCTION BOXES. NEW LUMINAIRE SHALL BE INSTALLED ON BRIDGE IN ACCORDANCE WITH WSDOT STANDARDS DURING CONSTRUCTION OR MOT STAGES
5. PROTECT EXISTING LIGHT STANDARD AND LUMINAIRE DURING CONSTRUCTION
6. INSTALL (2) 2" SPARE CONDUITS THROUGH EACH SIDE OF THE BRIDGE FOR LIGHTING SYSTEM PER WSDOT STANDARD J-60.11-00, J-60.12-00, AND STRUCTURAL DETAILS
7. INSTALL (2) 2" CONDUITS THROUGH EACH SIDE OF THE BRIDGE PER STRUCTURAL PLAN
8. 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 AND RECONNECTED TO THE EXISTING POWER SOURCE IN ACCORDANCE WITH CITY OF ISSAQUAH STANDARDS
12. INSTALL NEW CITY OF ISSAQUAH ELECTRICAL SERVICE CABINET



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DATE	10/10/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6703		
DESIGNED BY	H. HULBERT						
ENTERED BY	H. HULBERT						
CHECKED BY	A. GOROVAYA				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

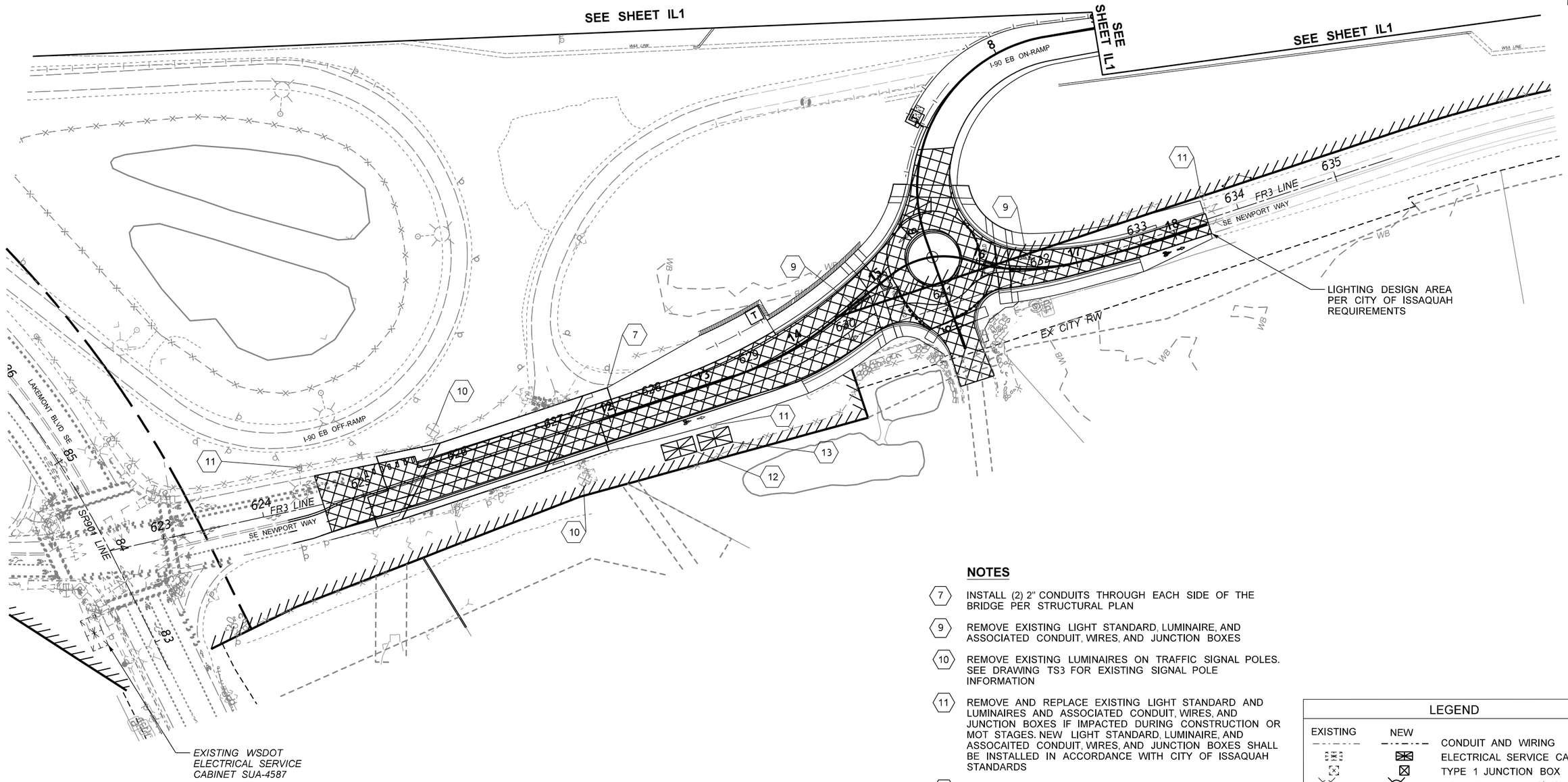
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

ILLUMINATION PLAN

PLAN REF NO IL1

SHEET 36 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.



NOTES

7. INSTALL (2) 2" CONDUITS THROUGH EACH SIDE OF THE BRIDGE PER STRUCTURAL PLAN
9. REMOVE EXISTING LIGHT STANDARD, LUMINAIRE, AND ASSOCIATED CONDUIT, WIRES, AND JUNCTION BOXES
10. REMOVE EXISTING LUMINAIRES ON TRAFFIC SIGNAL POLES. SEE DRAWING TS3 FOR EXISTING SIGNAL POLE INFORMATION
11. 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 ISSAQUAH STANDARDS
12. INSTALL NEW CITY OF ISSAQUAH ELECTRICAL SERVICE CABINET
13. INSTALL NEW WSDOT ELECTRICAL SERVICE CABINET TYPE E 480V

LEGEND

EXISTING	NEW	
		CONDUIT AND WIRING
		ELECTRICAL SERVICE CABINET
		TYPE 1 JUNCTION BOX
		LIGHT STANDARD SINGLE
		ROADWAY SCALE LIGHTING DESIGN AREA
		STREET SCALE LIGHTING DESIGN AREA

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0198339\XL6703_PS_IL_002.DGN
TIME	10:23:42 AM
DATE	10/10/2023
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-6703		
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

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

ILLUMINATION PLAN

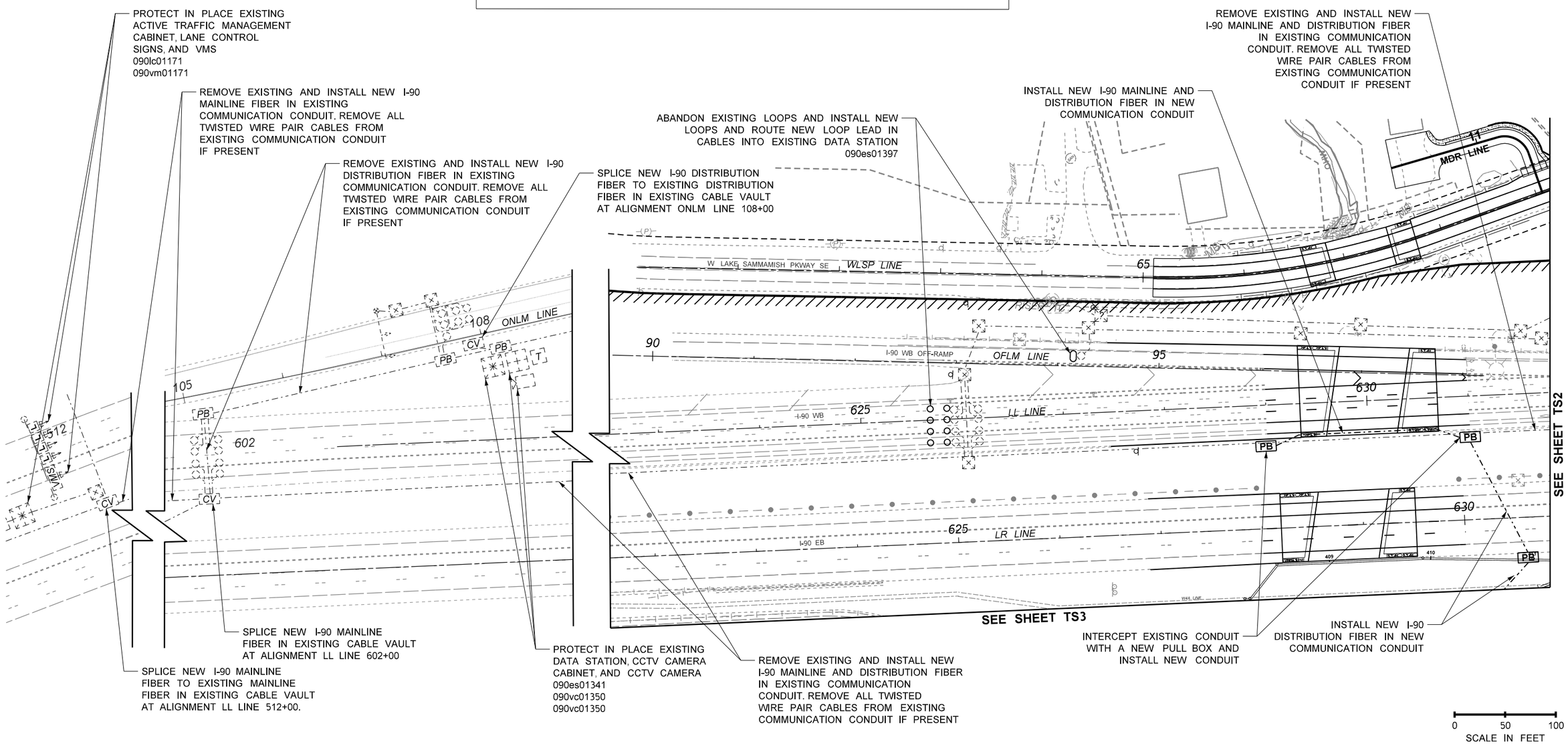
PLAN REF NO IL2

SHEET 37 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.

ITS LEGEND

EXISTING	NEW		EXISTING	NEW	
		CONDUIT AND WIRING			ELECTRICAL SERVICE CABINET
		CCTV CAMERA			TYPE 1 JUNCTION BOX
		CCTV CAMERA CABINET			TYPE 2 JUNCTION BOX
		ITS DATA SYSTEM /RAMP METER CABINET		CV	CABLE VAULT
	T	TRANSFORMER CABINET		SCV	SMALL CABLE VAULT
		RAMP METER POLE /FLASHING BEACON ASSEMBLY		PB	PULL BOX
					LOOP VEHICLE DETECTOR



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DATE	10/10/2023						
PLOTTED BY	lslmanek				JOB NUMBER XL-6703		
DESIGNED BY	H. HULBERT						
ENTERED BY	H. HULBERT				CONTRACT NO.	LOCATION NO.	
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

I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

ITS PLAN

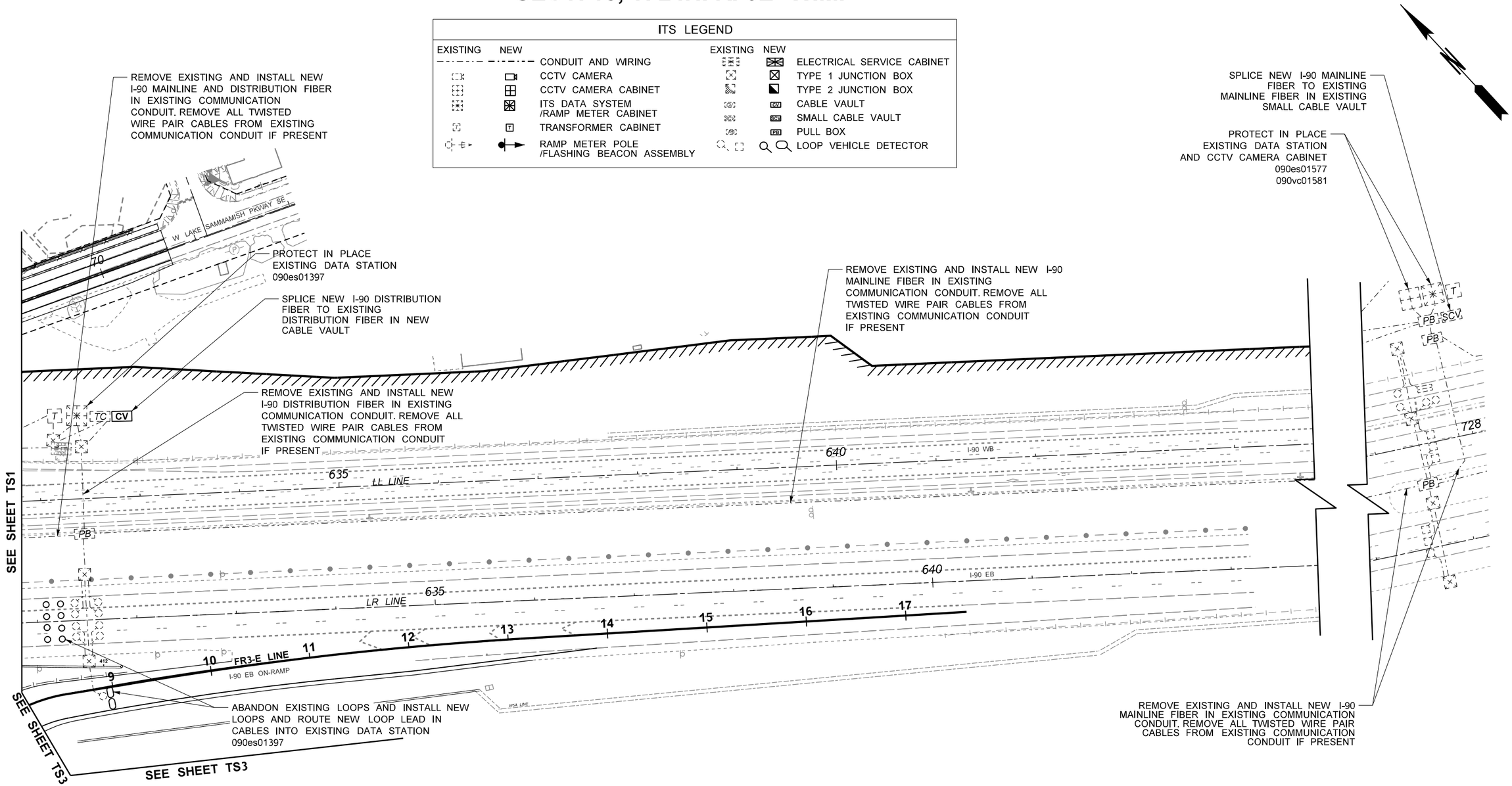
PLAN REF NO TS1

SHEET 38 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.

ITS LEGEND

EXISTING	NEW		EXISTING	NEW	
		CONDUIT AND WIRING			ELECTRICAL SERVICE CABINET
		CCTV CAMERA			TYPE 1 JUNCTION BOX
		CCTV CAMERA CABINET			TYPE 2 JUNCTION BOX
		ITS DATA SYSTEM /RAMP METER CABINET		CV	CABLE VAULT
	T	TRANSFORMER CABINET		SCV	SMALL CABLE VAULT
		RAMP METER POLE /FLASHING BEACON ASSEMBLY		PB	PULL BOX
					LOOP VEHICLE DETECTOR



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DATE	10/10/2023
PLOTTED BY	lsimanek
DESIGNED BY	H. HULBERT
ENTERED BY	H. HULBERT
CHECKED BY	S. ELBASSUONI
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6703		
CONTRACT NO.		LOCATION NO.

CONCEPTUAL DESIGN NOT FOR CONSTRUCTION

DATE

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DATE

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Washington State Department of Transportation

HNTB

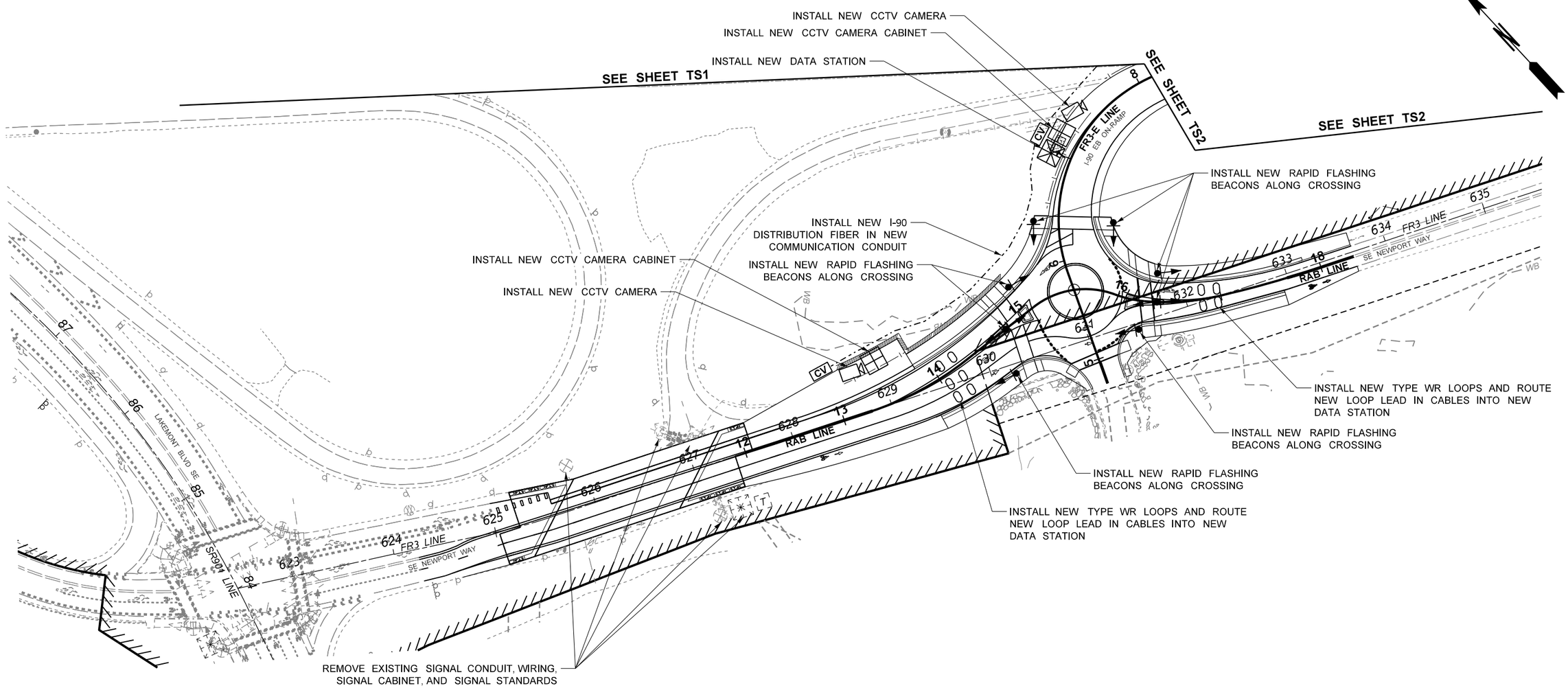
I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

ITS PLAN

PLAN REF NO TS2

SHEET 39 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.



0 50 100
SCALE IN FEET

ITS LEGEND

EXISTING	NEW		EXISTING	NEW	
		CONDUIT AND WIRING			ELECTRICAL SERVICE CABINET
		CCTV CAMERA			TYPE 1 JUNCTION BOX
		CCTV CAMERA CABINET			TYPE 2 JUNCTION BOX
		ITS DATA SYSTEM /RAMP METER CABINET			CABLE VAULT
		TRANSFORMER CABINET			SMALL CABLE VAULT
					PULL BOX
		RAMP METER POLE /FLASHING BEACON ASSEMBLY			LOOP VEHICLE DETECTOR

FILE NAME	c:\caddllb\pw\hntb_lslmanek\west\d0184722\XL6703_PS_TS_003.DGN				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	10:24:15 AM				JOB NUMBER XL-6703		
DATE	10/10/2023						
PLOTTED BY	lsimanek						
DESIGNED BY	H. HULBERT						
ENTERED BY	H. HULBERT						
CHECKED BY	S. ELBASSUONI				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

I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

ITS PLAN

PLAN REF NO TS3

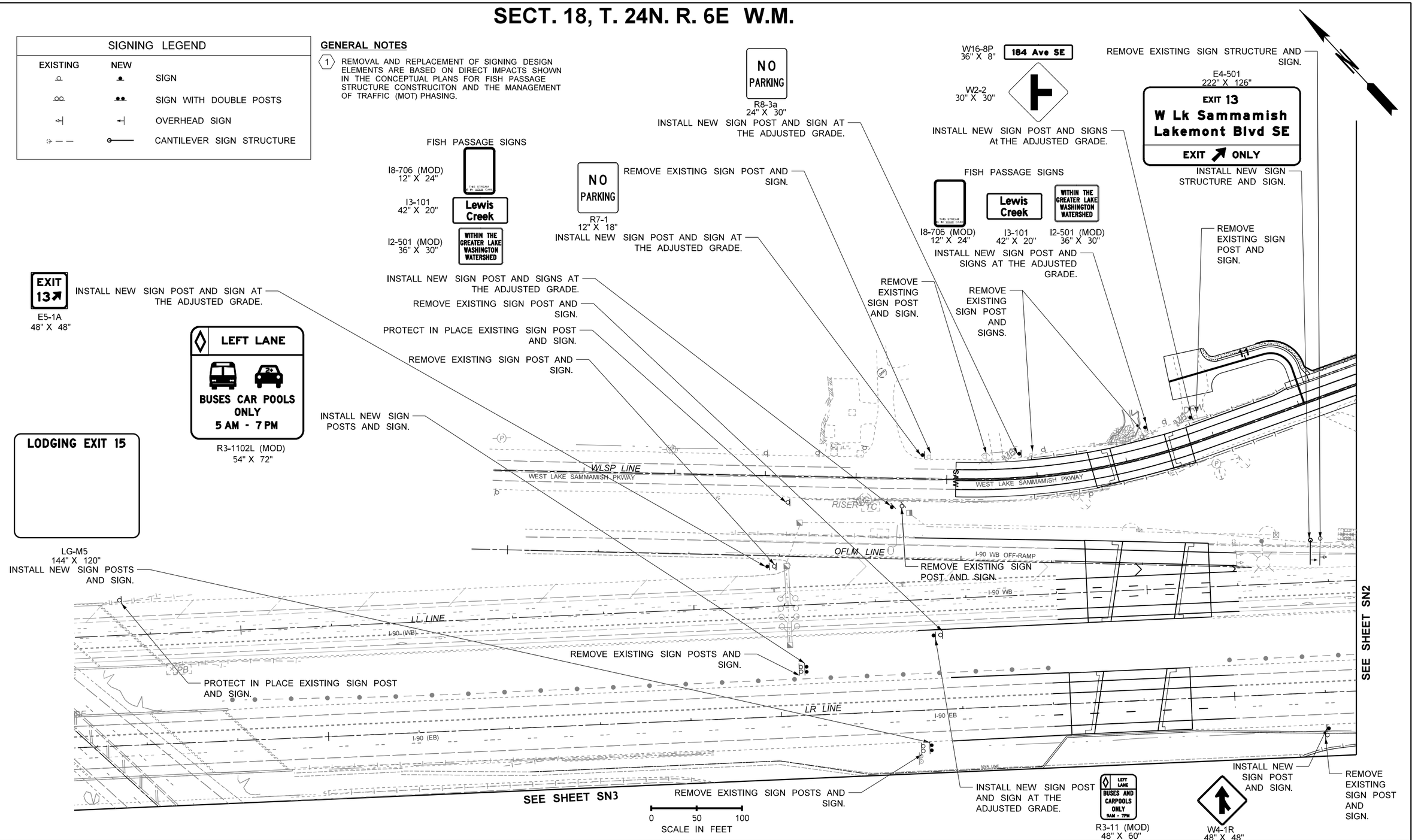
SHEET 40 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.

SIGNING LEGEND		
EXISTING	NEW	
		SIGN
		SIGN WITH DOUBLE POSTS
		OVERHEAD SIGN
		CANTILEVER SIGN STRUCTURE

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.



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DATE	10/10/2023				CONTRACT NO.		LOCATION NO.
PLOTTED BY	lsimanek						
DESIGNED BY	A. CHAN						
ENTERED BY	A. CHAN						
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

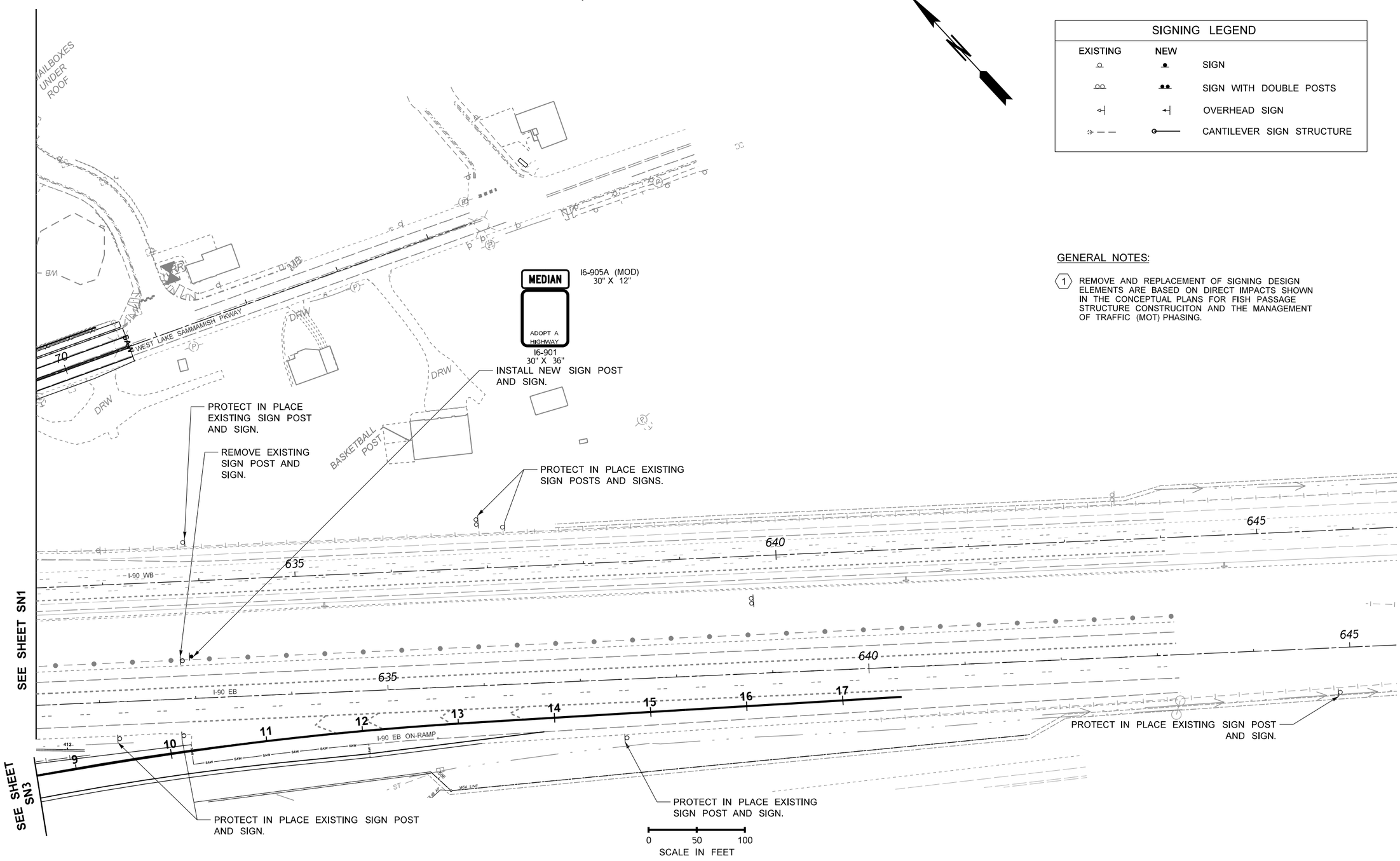
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

SIGNING PLAN

PLAN REF NO SN1

SHEET 41 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.



SIGNING LEGEND

EXISTING	NEW	
		SIGN
		SIGN WITH DOUBLE POSTS
		OVERHEAD SIGN
		CANTILEVER SIGN STRUCTURE

GENERAL NOTES:

1. REMOVE 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.

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DATE	10/10/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. CHAN
ENTERED BY	A. CHAN
CHECKED BY	S. ELBASSUONI
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6703		
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

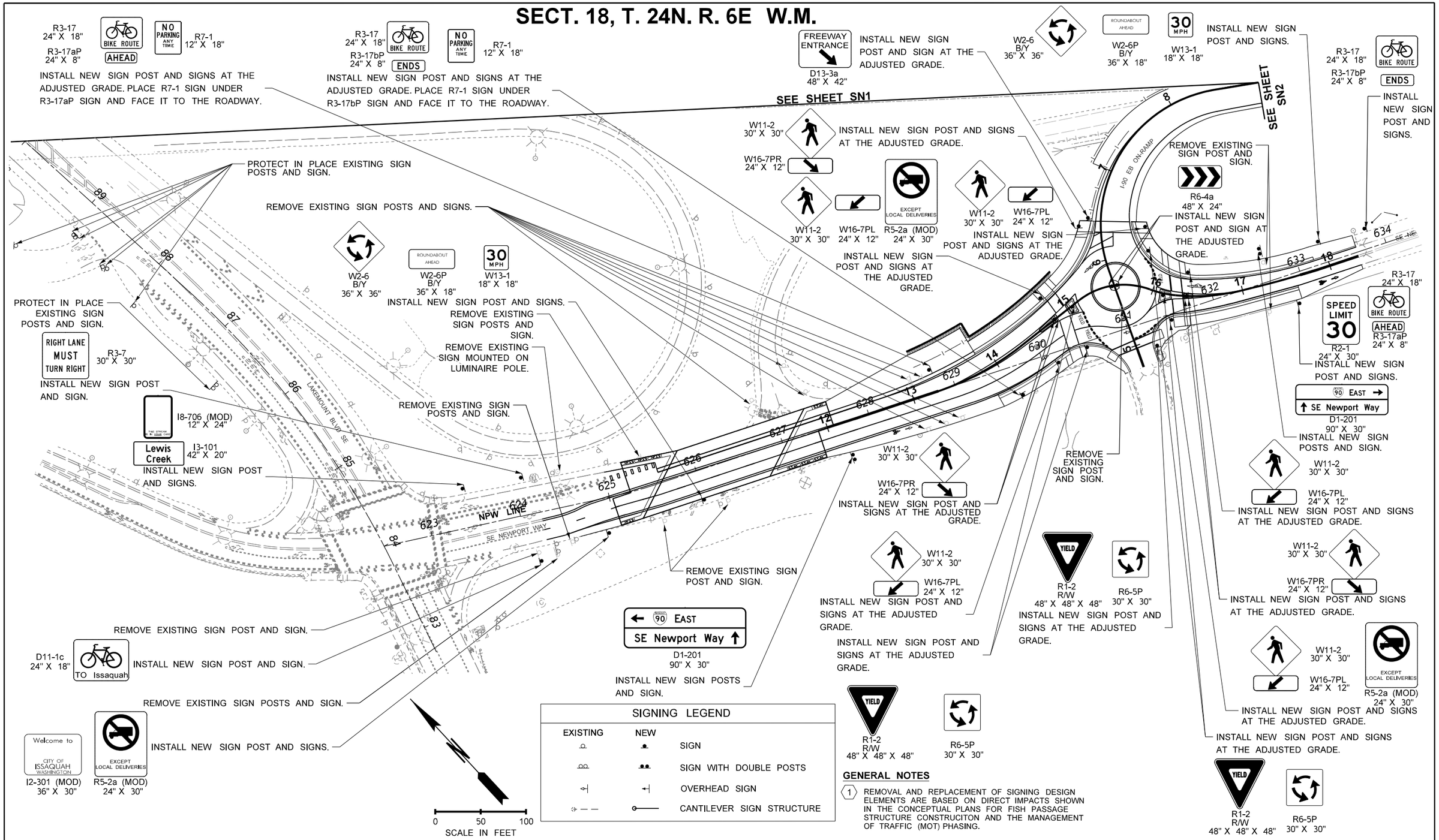
I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

SIGNING PLAN

PLAN REF NO SN2

SHEET 42 OF 49 SHEETS

SECT. 18, T. 24N. R. 6E W.M.



SIGNING LEGEND

EXISTING	NEW	
		SIGN
		SIGN WITH DOUBLE POSTS
		OVERHEAD SIGN
		CANTILEVER SIGN STRUCTURE

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.

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DESIGNED BY	A. CHAN			
ENTERED BY	A. CHAN			
CHECKED BY	S. ELBASSUONI			
PROJ. ENGR.	T. NAU			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER XL-6703		
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

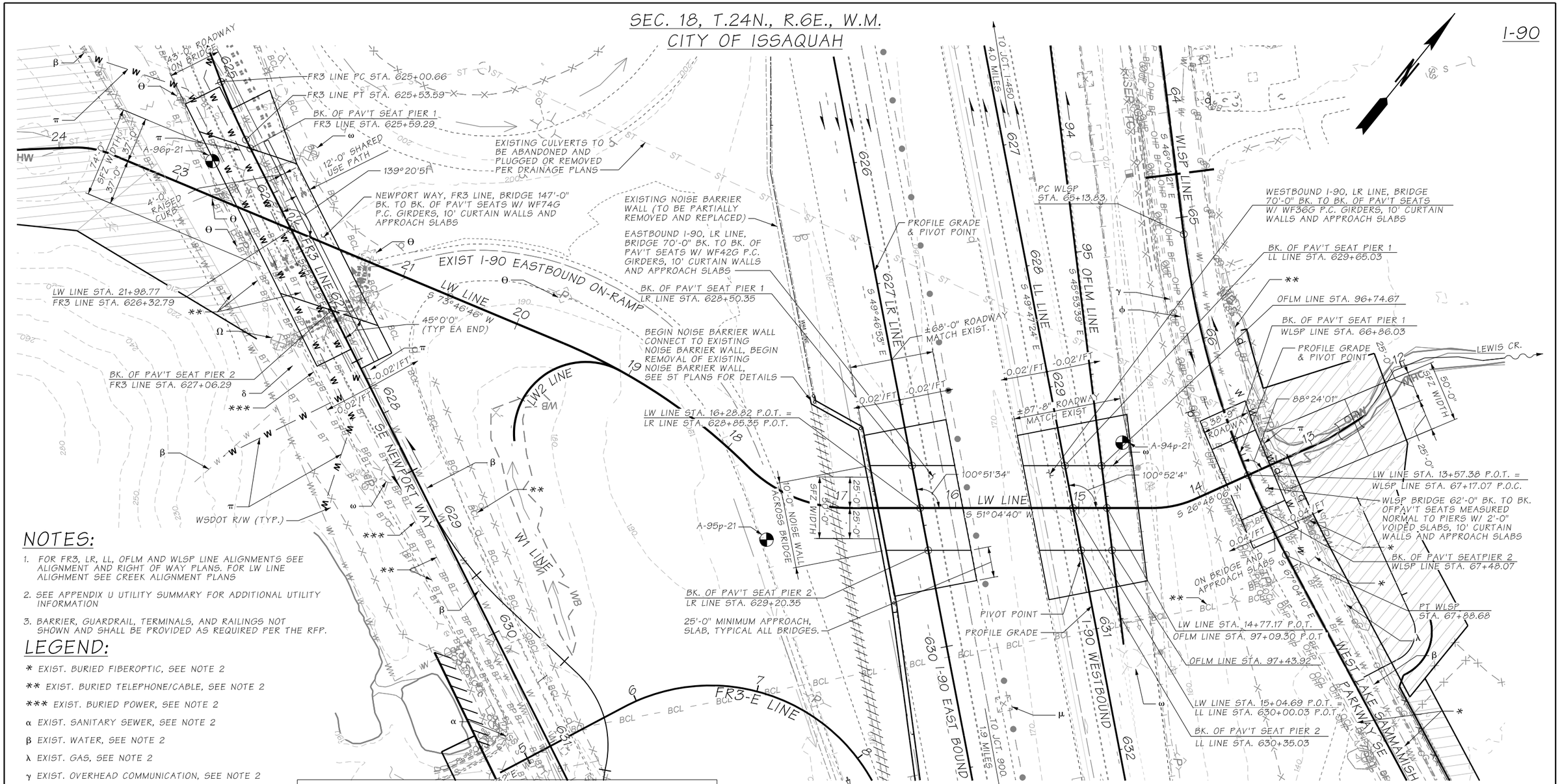
I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK

SIGNING PLAN

PLAN REF NO SN3

SHEET 43 OF 49 SHEETS

SEC. 18, T.24N., R.6E., W.M.
CITY OF ISSAQUAH



NOTES:

1. FOR FR3, LR, LL, OFLM AND WLSP LINE ALIGNMENTS SEE ALIGNMENT AND RIGHT OF WAY PLANS. FOR LW LINE ALIGHMENT SEE CREEK ALIGNMENT PLANS
2. SEE APPENDIX U UTILITY SUMMARY FOR ADDITIONAL UTILITY INFORMATION
3. BARRIER, GUARDRAIL, TERMINALS, AND RAILINGS NOT SHOWN AND SHALL BE PROVIDED AS REQUIRED PER THE RFP.

LEGEND:

- * EXIST. BURIED FIBEROPTIC, SEE NOTE 2
- ** EXIST. BURIED TELEPHONE/CABLE, SEE NOTE 2
- *** EXIST. BURIED POWER, SEE NOTE 2
- α EXIST. SANITARY SEWER, SEE NOTE 2
- β EXIST. WATER, SEE NOTE 2
- λ EXIST. GAS, SEE NOTE 2
- γ EXIST. OVERHEAD COMMUNICATION, SEE NOTE 2
- Θ EXIST. POWER BOX
- μ EXIST. JUNCTION BOX
- ϕ EXIST. OVERHEAD POWER, SEE NOTE 2
- Ω EXIST. TRAFFIC OVERHEAD SIGN
- ω EXIST. LUMINAIRE
- π RELOCATED WATER, SEE NOTE 2
- GEOTECHNICAL EXPLORATION

CURVE DATA

P.I. STATION	Δ	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
WLSP LINE 66+52.82	20°59'50" LT	750.00'	138.99'	274.85'	S 46°4'21" E
FR3 LINE 625+27.15	06°03'54" LT	500.00'	26.49'	52.93'	S 59°30'11" E
LW LINE 14+22.20	24°16'35" RT	85.00'	18.28'	36.01'	S 26°48'06" W
LW LINE 17+34.86	44°50'23" RT	115.40'	47.61'	90.31'	S 51°04'40" W
LW LINE 18+69.29	22°08'17" LT	468.87'	91.72'	181.16'	N 84°04'57" W
LW LINE 23+72.97	25°04'22" LT	80.00'	17.79'	35.01'	S 73°46'46" W

PLAN

BEARING OF LL LINE & LR LINE PIERS ARE S 51°04'40" W
BEARING OF FR3 LINE PIERS ARE S 73°46'46" W
BEARING OF WLSP LINE PIERS ARE S 26°48'06" W

DATUM

NAVD 88

ASSUMED P.C. GIRDERS (WF36G, WF42G, WF74G & VOIDED SLAB (2'-0")
LOADING: HL-93

SEISMIC OPERATIONAL CLASSIFICATION: RECOVERY (LL & LR LINE STRUCTURES)
SEISMIC OPERATIONAL CLASSIFICATION: ORDINARY (WLSP & FR3 LINE STRUCTURES)

CONCEPTUAL - NOT FOR CONSTRUCTION

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DATE	10/10/2023
PLOTTED BY	lsimanek
DESIGNED BY	A. RAND
ENTERED BY	T. WANG
CHECKED BY	K. LINTS
PROJ. ENGR.	T. NAU
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER XL-6703
CONTRACT NO. | LOCATION NO.

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

DATE
P.E. STAMP BOX

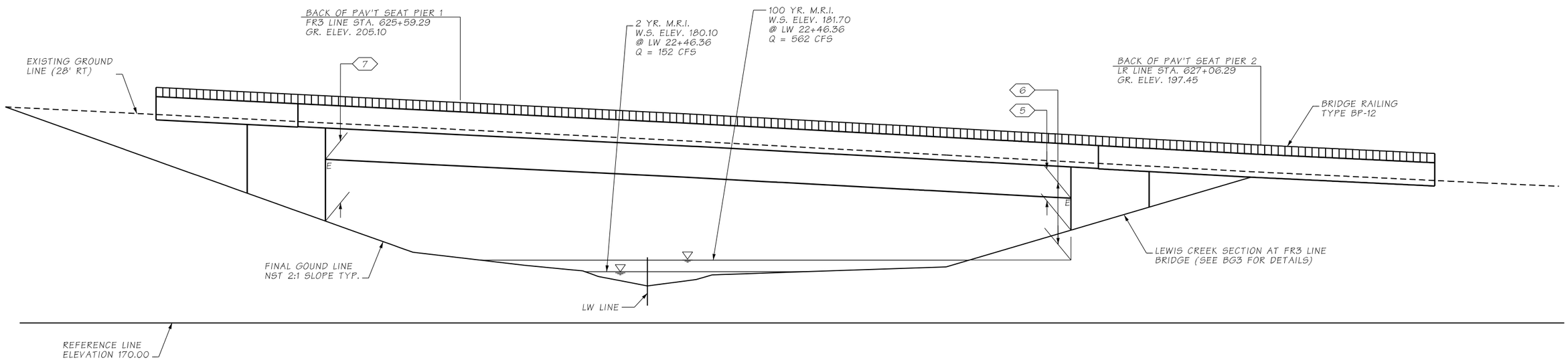
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

CONCEPTUAL
BRIDGE PLAN - LAYOUT

PLAN REF NO BG1

SHEET 44 OF 49 SHEETS



ELEVATION - LW @ FR3 LINE BRIDGE

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF BRIDGE DECK ON FR3 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 CLEARANCES TO THE CONCEPTUAL DESIGN STRUCTURE AND ARE NOT RELATED TO THE SFZ OR OTHER REQUIRED CLEARANCES. 3'-0" MIN. VERT. CLR. REQUIRED AT ABUTMENTS FOR BRIDGE INSPECTION IN ACCORDANCE WITH THE BDM.

5 6.3' VERT. CLR TO FINISH GRADE BELOW STRUCTURE.

6 12.2' VERT. CLR TO 100 YR M.R.I. W.S. ELEV.

7 12.2' VERT. CLR TO FINISH GRADE BELOW THE STRUCTURE

CONCEPTUAL - NOT FOR CONSTRUCTION

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DATE	10/10/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6703		
DESIGNED BY	A. RAND						
ENTERED BY	T. WANG						
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

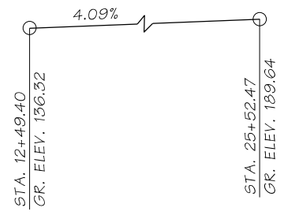
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

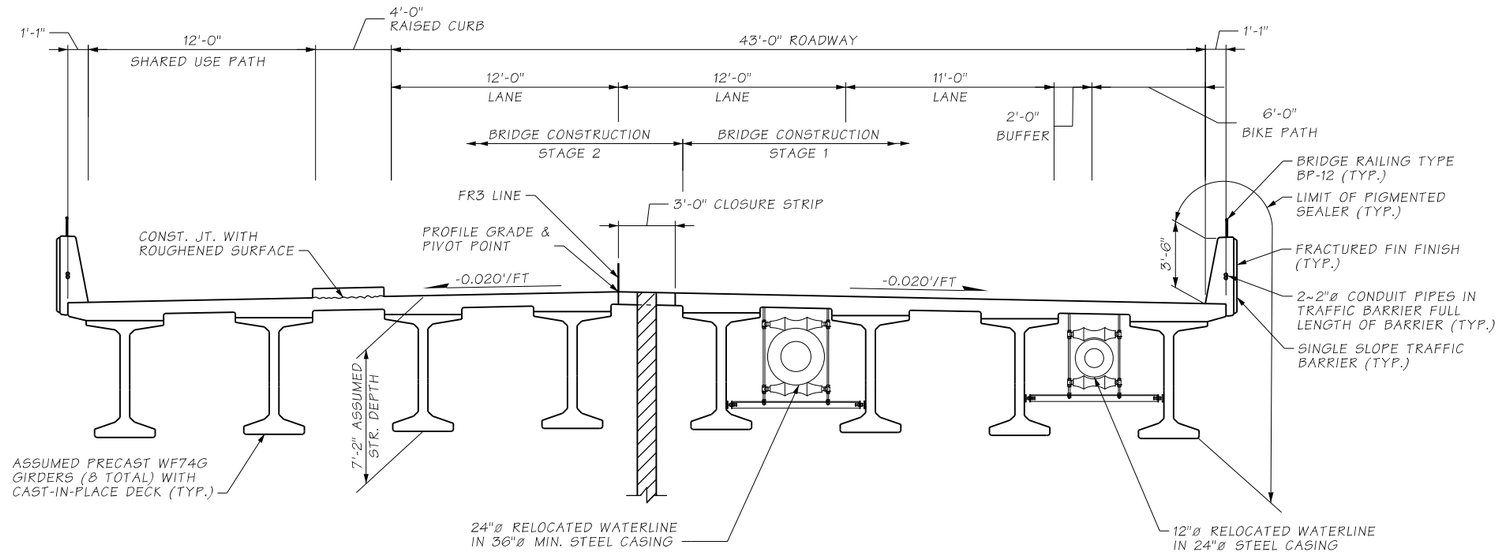
CONCEPTUAL BRIDGE ELEVATION - NEWPORT WAY SE

PLAN REF NO BG2

SHEET 45 OF 49 SHEETS

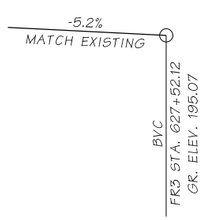


LW LINE PROFILE

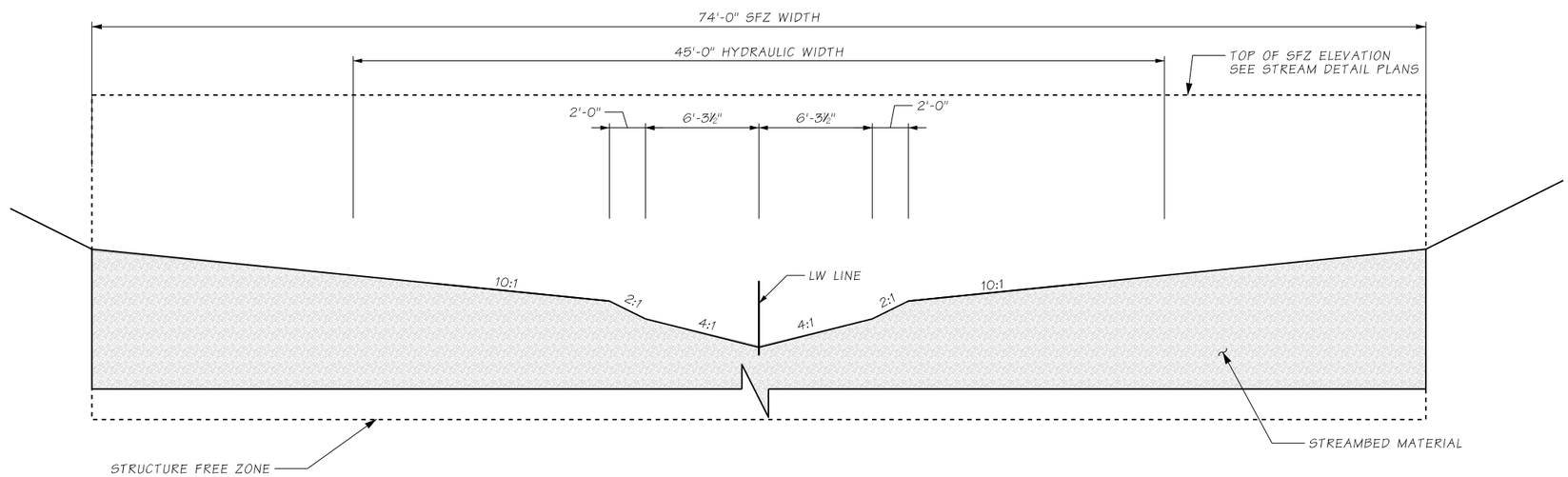


TYPICAL SECTION - FR3 LINE BRIDGE

SHOWN NEAR MIDSPAN



FR3 LINE PROFILE



TYPICAL LEWIS CREEK CROSS SECTION AT FR3 LINE BRIDGE

DIMENSIONS MEASURED NORMAL TO LW LINE

CONCEPTUAL - NOT FOR CONSTRUCTION

FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0183429\XL6703_PS_BG_003.dgn						
TIME	10:25:03 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE	10/10/2023						
PLOTTED BY	lsimanek				JOB NUMBER XL-6703		
DESIGNED BY	A. RAND						
ENTERED BY	T. WANG						
CHECKED BY	K. LINTS				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

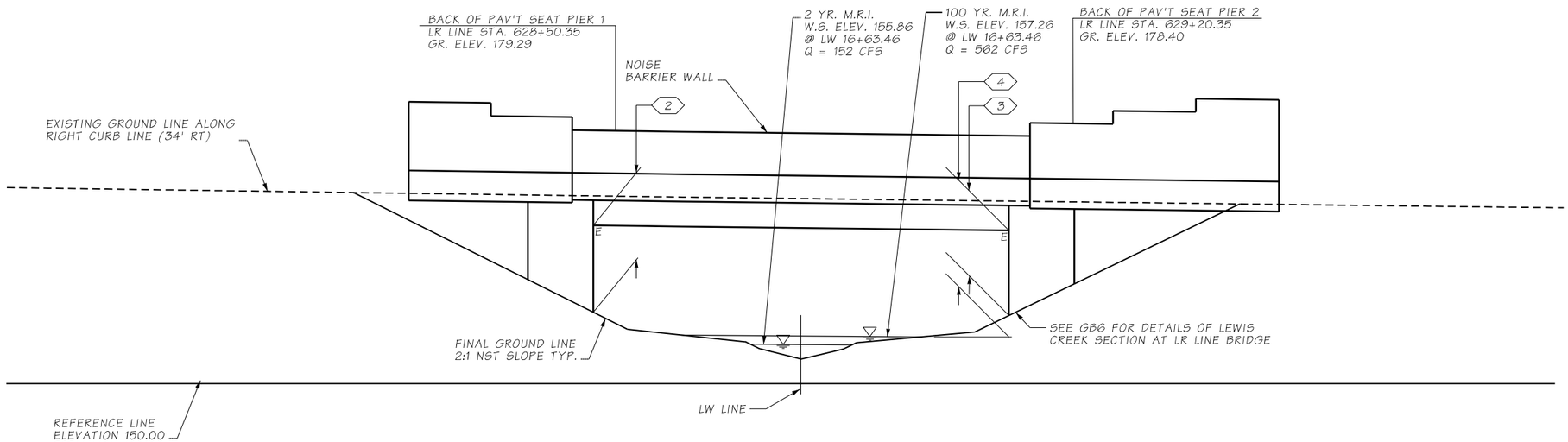
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

CONCEPTUAL BRIDGE SECTION & PROFILE - NEWPORT WAY SE

PLAN REF NO BG3

SHEET 46 OF 49 SHEETS



ELEVATION - LW @ LR LINE BRIDGE

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF BRIDGE DECK ON LR LINE AND ARE EQUAL TO PROFILE GRADE. SEE DESIGN MANUAL EXHIBIT 720-4 FOR EMBANKMENT DETAILS AT BRIDGE ENDS (LR LINE BRIDGE SHOWN, LL LINE BRIDGE AND WLSP LINE BRIDGE SIM.)

NOTES:

1. ALL CLEARANCES PROVIDED ARE CLEARANCES TO THE CONCEPTUAL DESIGN STRUCTURE AND ARE NOT RELATED TO THE SFZ OR OTHER REQUIRED CLEARANCES. 3'-0" MIN. VERT. CLR. REQUIRED AT ABUTMENTS FOR BRIDGE INSPECTION IN ACCORDANCE WITH THE BDM.

2. 13.3' VERT. CLR TO FINISH GRADE BELOW THE STRUCTURE

3. 13.0' VERT. CLR TO FINISH GRADE BELOW THE STRUCTURE

4. 16.4' VERT. CLR. TO 100 YR M.R.I. W.S. ELEV.

CONCEPTUAL - NOT FOR CONSTRUCTION

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DATE	10/10/2023				JOB NUMBER XL-6703		
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DESIGNED BY	A. RAND						
ENTERED BY	T. WANG						
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

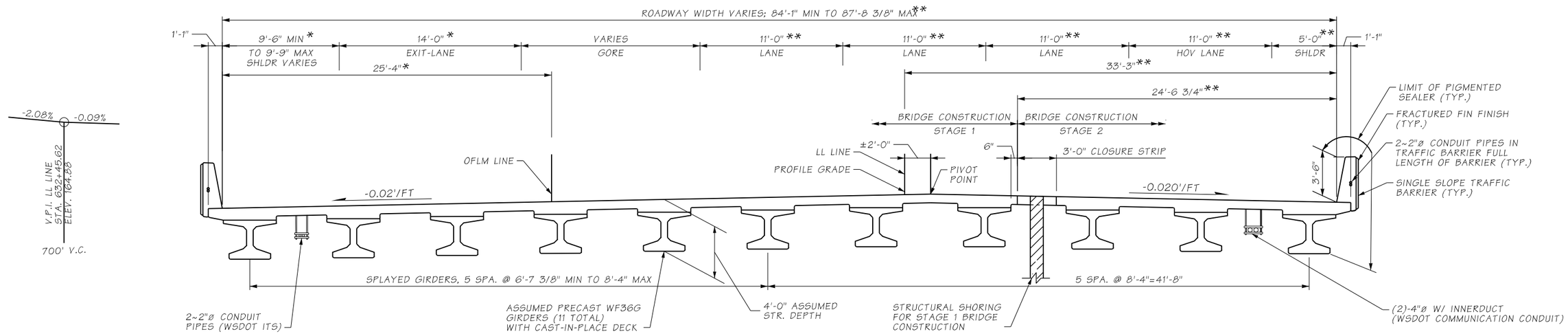
Washington State Department of Transportation
HNTB

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

CONCEPTUAL
BRIDGE ELEVATION I-90 EASTBOUND

PLAN REF NO
BG4

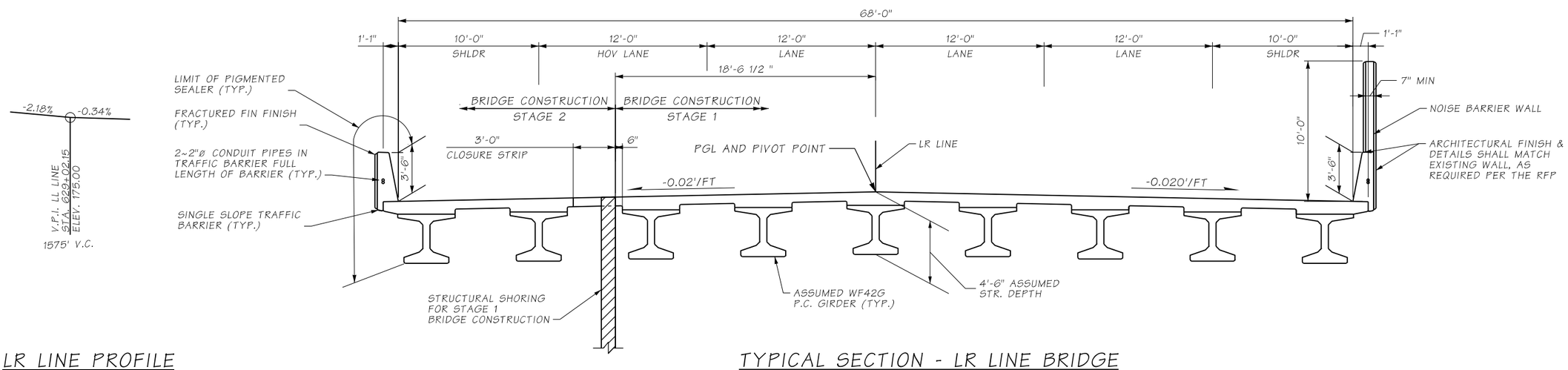
SHEET 47 OF 49 SHEETS



LL LINE PROFILE

TYPICAL SECTION - LL LINE BRIDGE

SHOWN NEAR MIDSPAN
* MEASURED NORMAL TO THE OFLM LINE
** MEASURED NORMAL TO THE LL LINE



LR LINE PROFILE

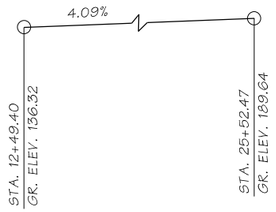
TYPICAL SECTION - LR LINE BRIDGE

SHOWN NEAR MIDSPAN

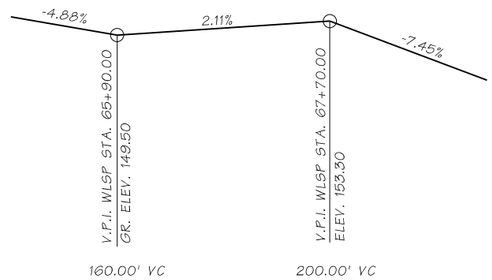
NOTES:
SEE TYPICAL SECTION - WLSP LINE SHEET FOR TYPICAL LEWIS CREEK CROSS SECTION.

CONCEPTUAL - NOT FOR CONSTRUCTION

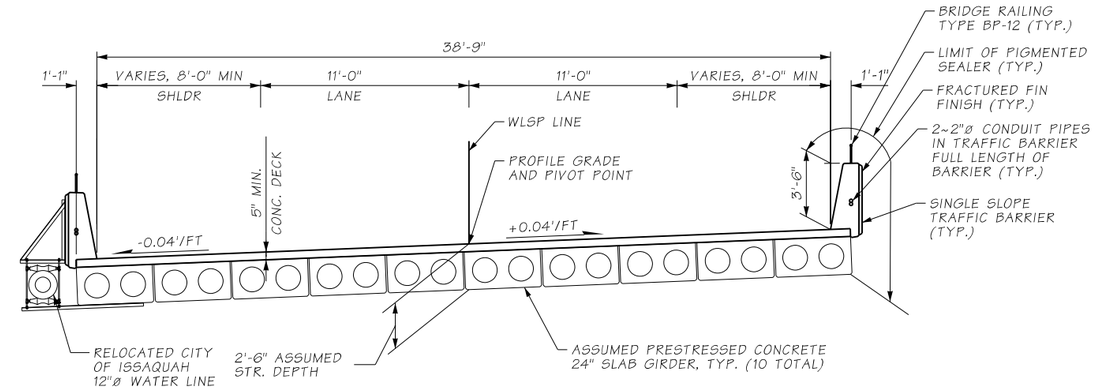
FILE NAME	c:\caddllb\pw\hntb_lsimanek\west\d0183429\XL6703_PS_BG_005.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	CONCEPTUAL DESIGN NOT FOR CONSTRUCTION		Washington State Department of Transportation HNTB	I-90 & SR 900 FISH PASSAGE I-90 LEWIS CREEK	PLAN REF NO BG5
TIME	10:25:10 AM				10	WASH						
DATE	10/10/2023				JOB NUMBER XL-6703							SHEET 48 OF 49 SHEETS
PLOTTED BY	lsimanek											
DESIGNED BY	A. RAND											
ENTERED BY	T. WANG											
CHECKED BY	K. LINTS				CONTRACT NO.		LOCATION NO.	DATE	DATE		CONCEPTUAL BRIDGE SECTIONS & PROFILES I-90	
PROJ. ENGR.	T. NAU											
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY				P.E. STAMP BOX	P.E. STAMP BOX			



LW LINE PROFILE

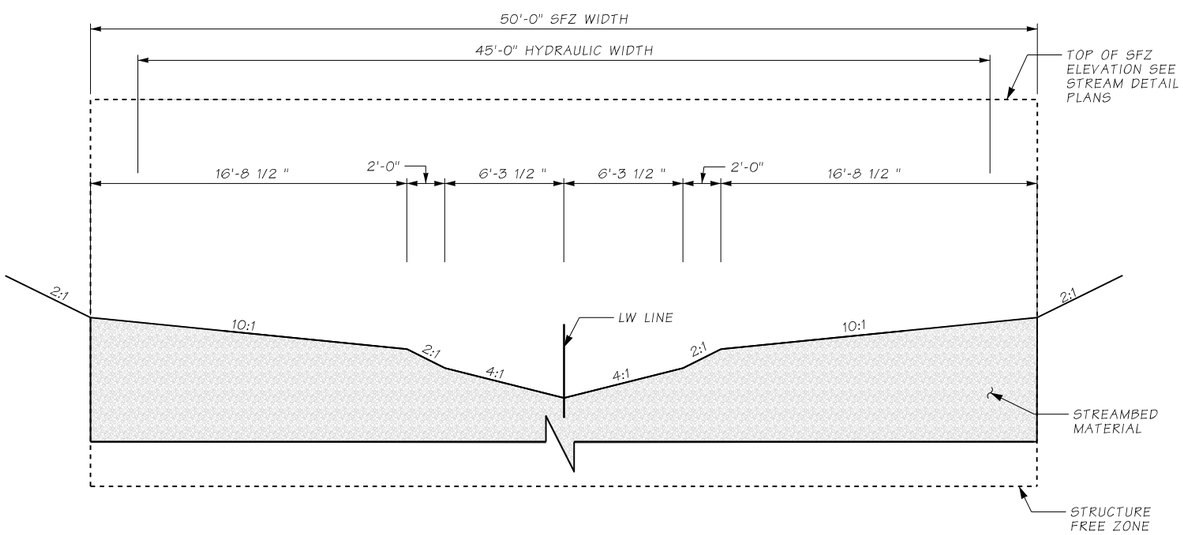


WLSP LINE PROFILE



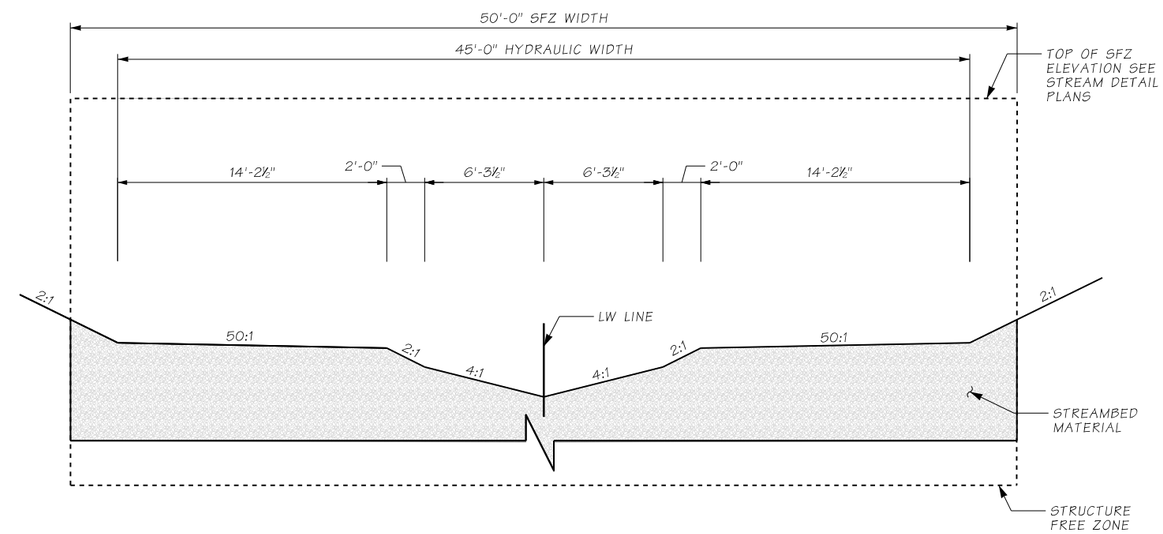
TYPICAL SECTION - WLSP LINE BRIDGE

SHOWN NEAR MIDSPAN CONSTRUCTION
COMPLETED IN ONE PHASE



TYPICAL LEWIS CREEK CROSS SECTION AT LR & LL LINE BRIDGES

DIMENSIONS MEASURED NORMAL TO LW LINE



TYPICAL LEWIS CREEK CROSS SECTION AT WLSP LINE BRIDGE

DIMENSIONS MEASURED NORMAL TO LW LINE

CONCEPTUAL - NOT FOR CONSTRUCTION

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TIME	10:25:13 AM				JOB NUMBER XL-6703		
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PLOTTED BY	lsimanek						
DESIGNED BY	A. RAND						
ENTERED BY	T. WANG						
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

I-90 & SR 900
FISH PASSAGE
I-90 LEWIS CREEK

CONCEPTUAL
BRIDGE SECTION & PROFILE - WLSP

PLAN REF NO
BG6

SHEET 49 OF 49 SHEETS