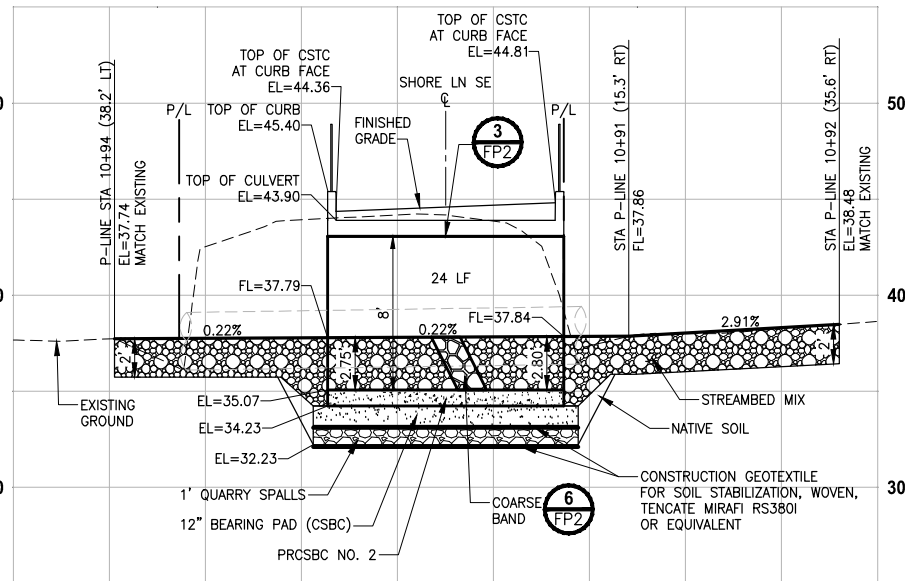
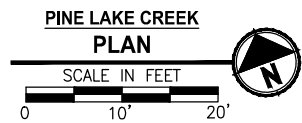
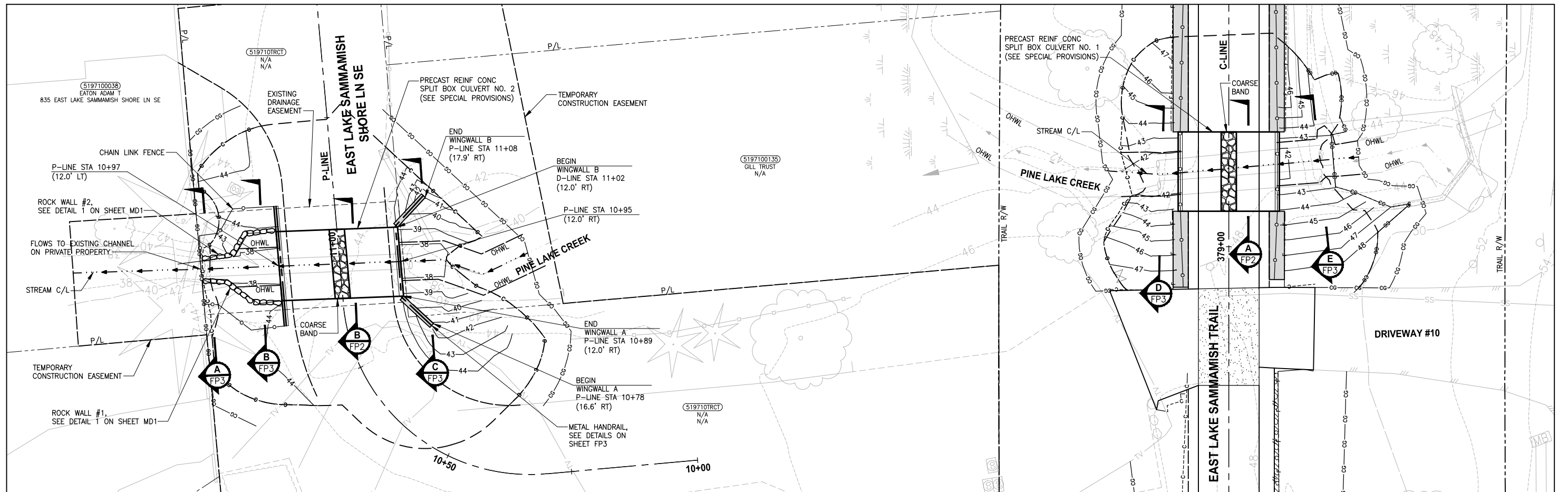
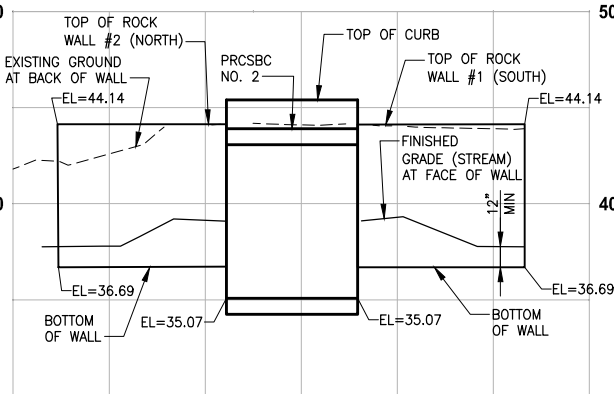


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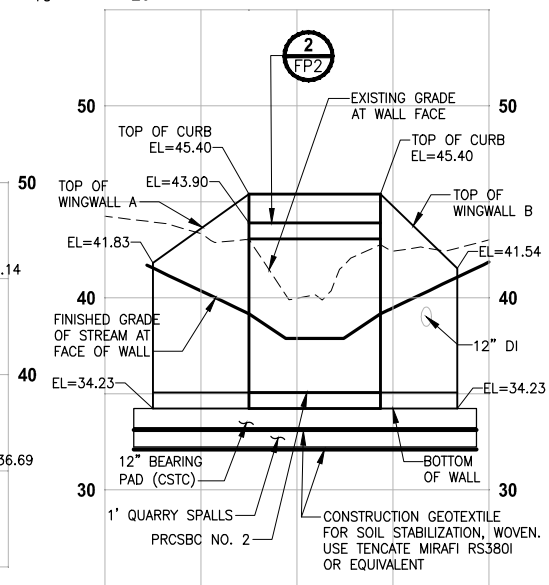
PINE LAKE CREEK 2 - SHORE LN SE
PROFILE P-LINE STA 10+92

HORIZ: 1"=10'
VERT: 1"=5'



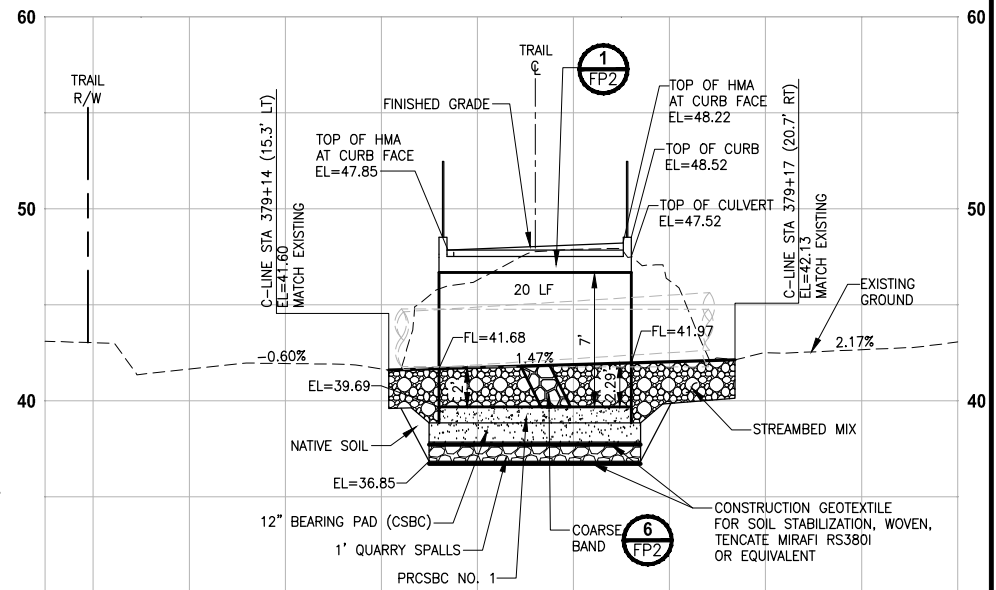
PINE LAKE CREEK 2
PROFILE ROCK WALL #1 & #2

HORIZ: 1"=10'
VERT: 1"=5'



PINE LAKE CREEK 2
PROFILE CULVERT 2 WINGWALLS A & B

HORIZ: 1"=10'
VERT: 1"=5'



PINE LAKE CREEK 1 - KC TRAIL
PROFILE C-LINE STA 379+15

HORIZ: 1"=10'
VERT: 1"=5'

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

95 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

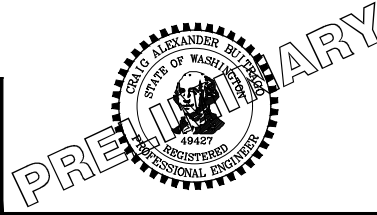
REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL1521075P19T03FP-01

JOB No.
554-1521-075 P19 T03

DATE
AUGUST 2019



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PROJECT NAME

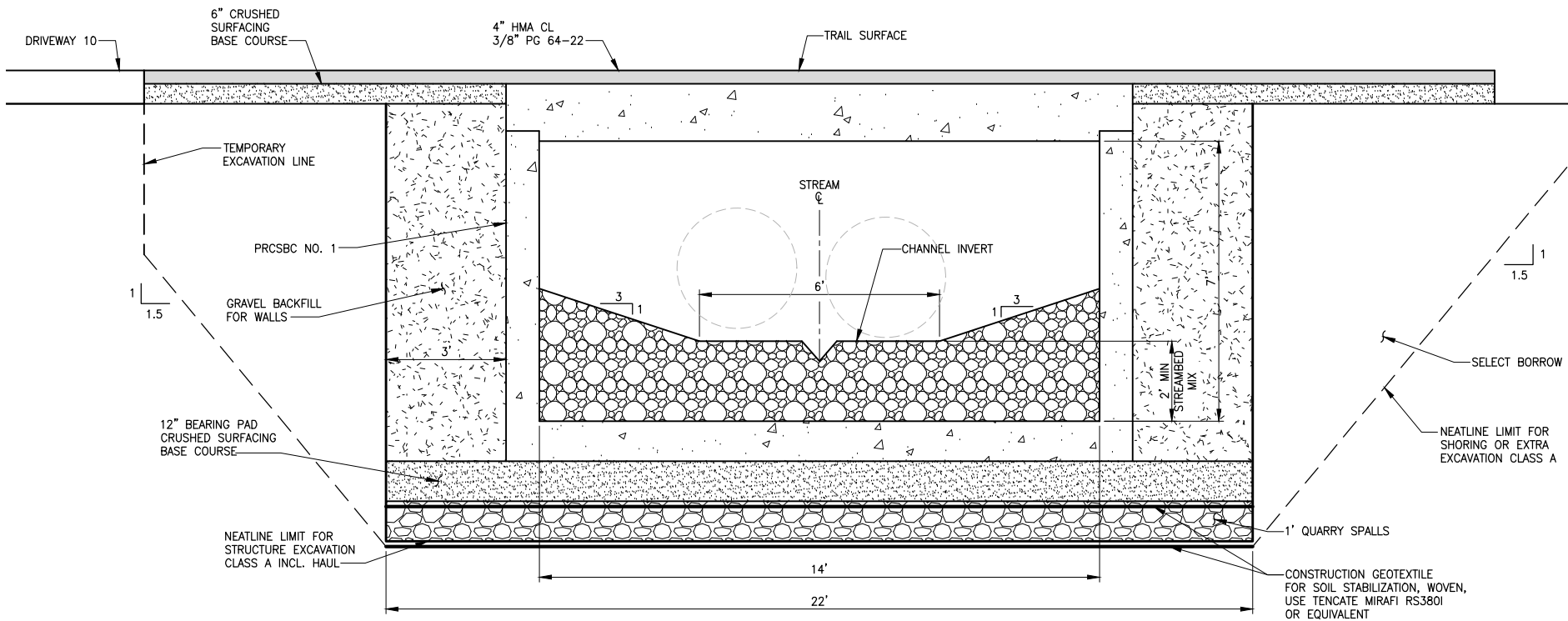
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B
SAMMAMISH, WA

FISH PASSAGE CULVERTS

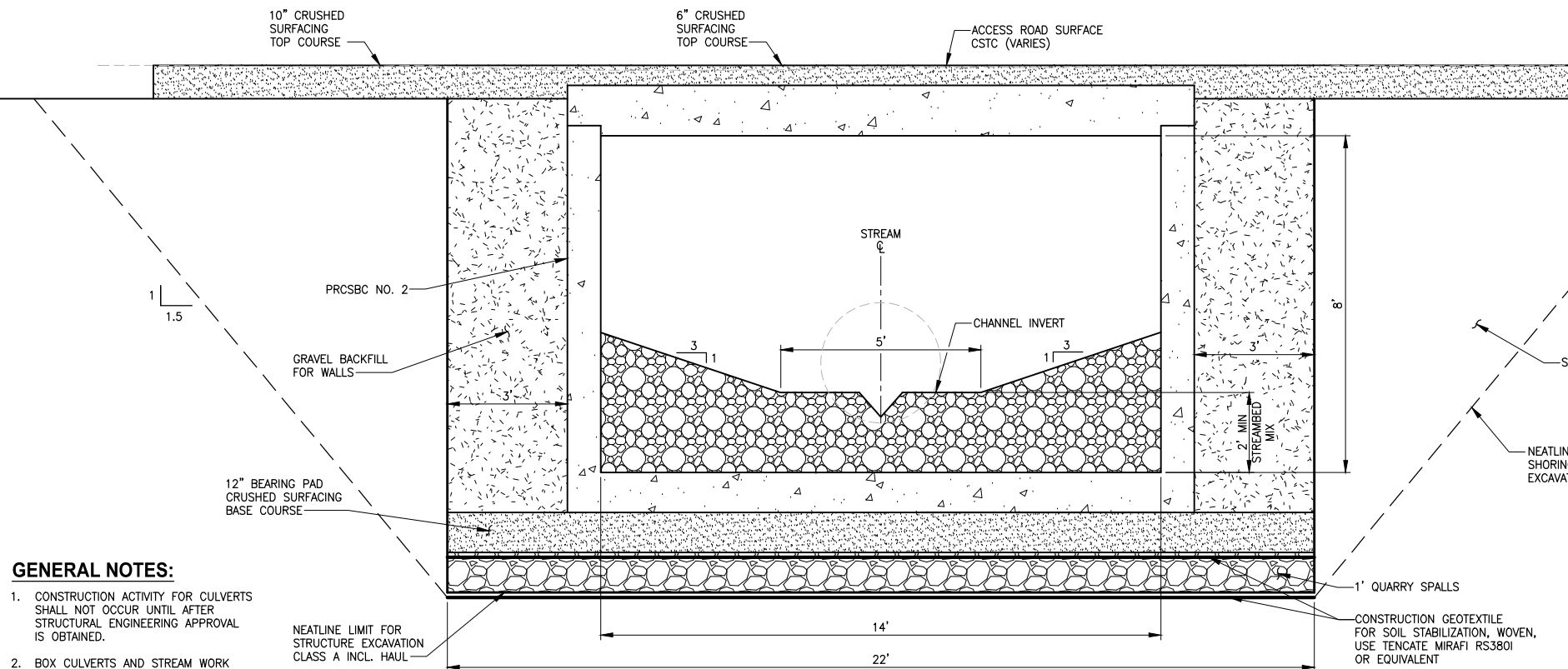
SHEET NO.
159 OF 276

FP1

PATH: U:\P50\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Sves\CADD\Phase 19\T03_Civil\Draw\ PLOTTED BY: purgubut DATE: Friday, August 2, 2019 5:17:17 PM LAYOUT: FP2



PINE LAKE CREEK 1 (PRCSBC NO. 1) - KC TRAIL
TYPICAL SECTION A
NOT TO SCALE

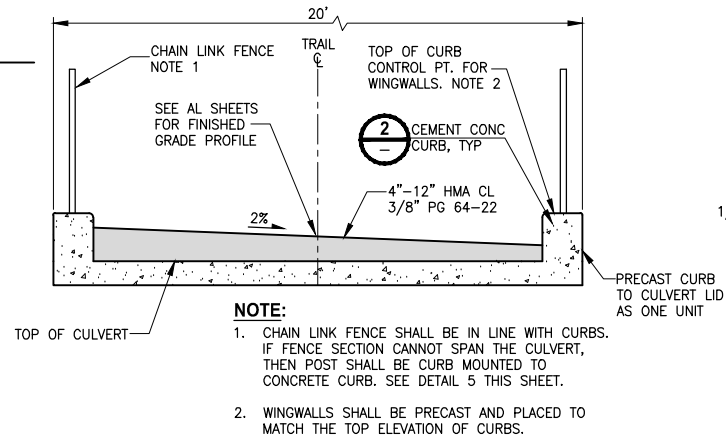


PINE LAKE CREEK 2 (PRCSBC NO. 2) - SHORE LN SE
TYPICAL SECTION B
NOT TO SCALE

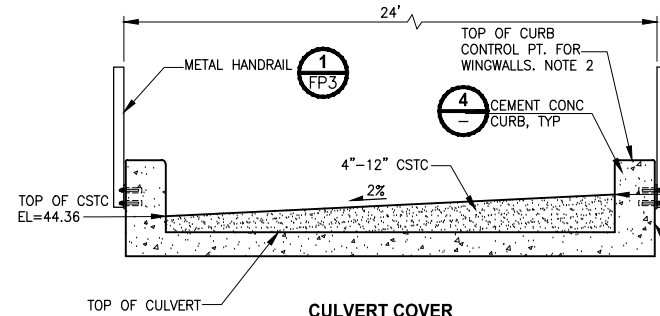
GENERAL NOTES:

1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.

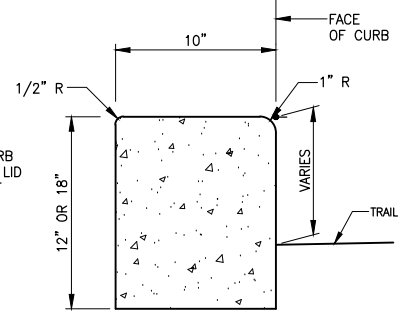
- NOTE:**
1. LOW FLOW CHANNEL TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



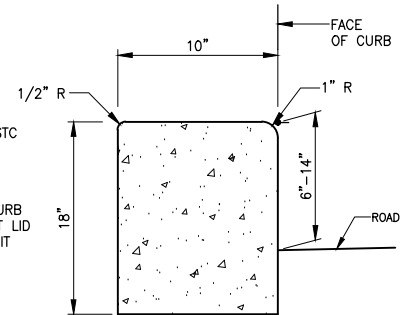
CULVERT COVER
DETAIL 1
NOT TO SCALE



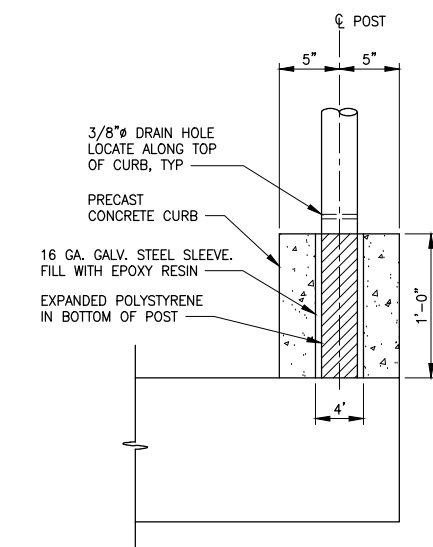
CULVERT COVER
DETAIL 3
NOT TO SCALE



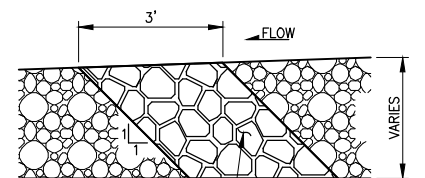
PRECAST CEMENT CONCRETE CURB
DETAIL 2
NOT TO SCALE



PRECAST CEMENT CONCRETE CURB
DETAIL 4
NOT TO SCALE



CHAIN LINK FENCE CURB MOUNT
DETAIL 5
NOT TO SCALE



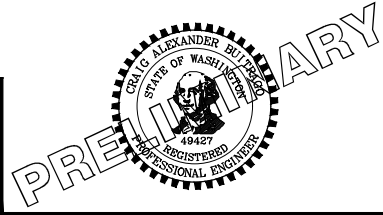
COARSE BAND PROFILE SHAPE
DETAIL 6
NOT TO SCALE

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

95 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
BL1521075P19T03FP-01
JOB No.
554-1521-075 P19 T03
DATE
AUGUST 2019



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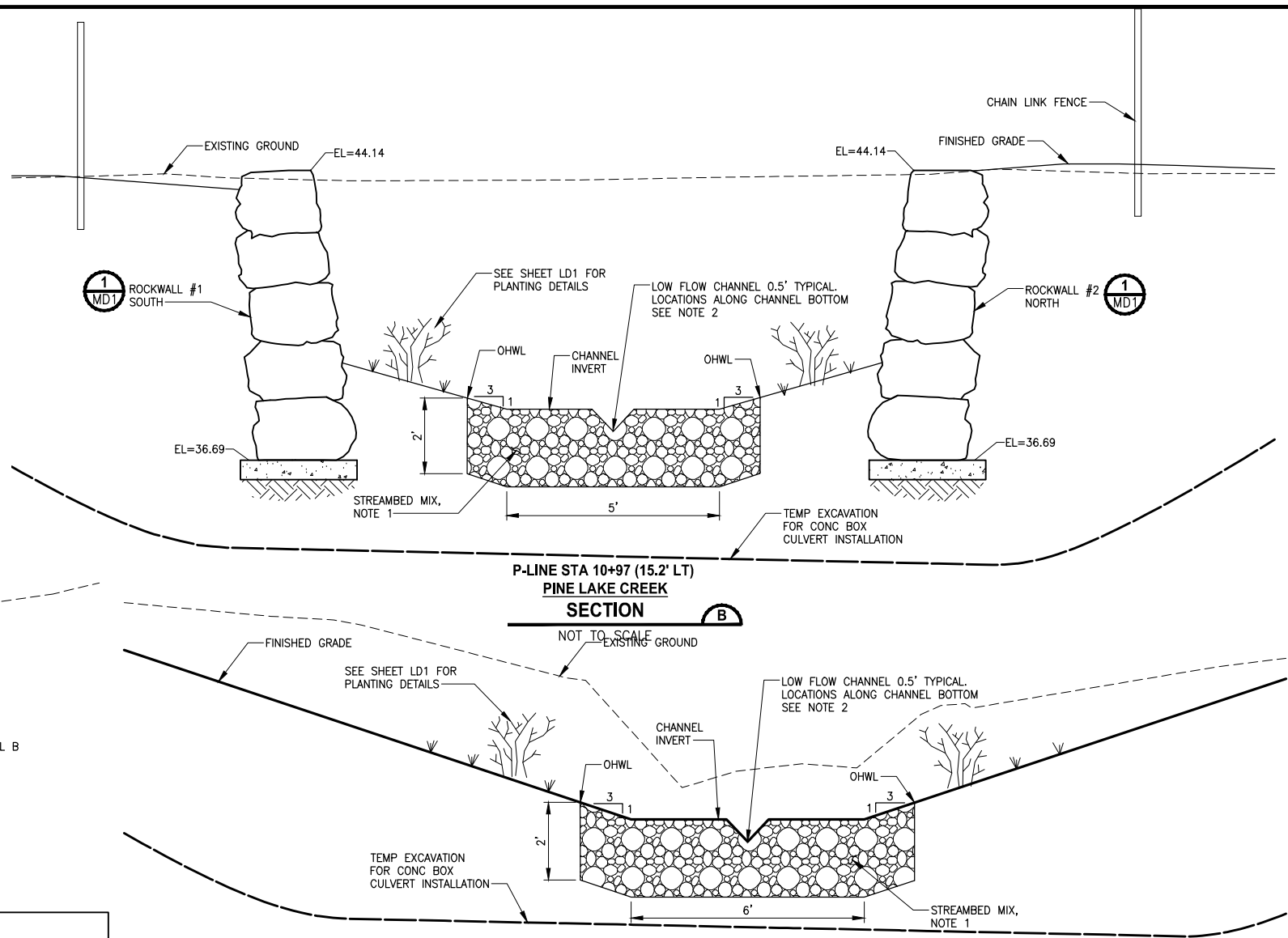
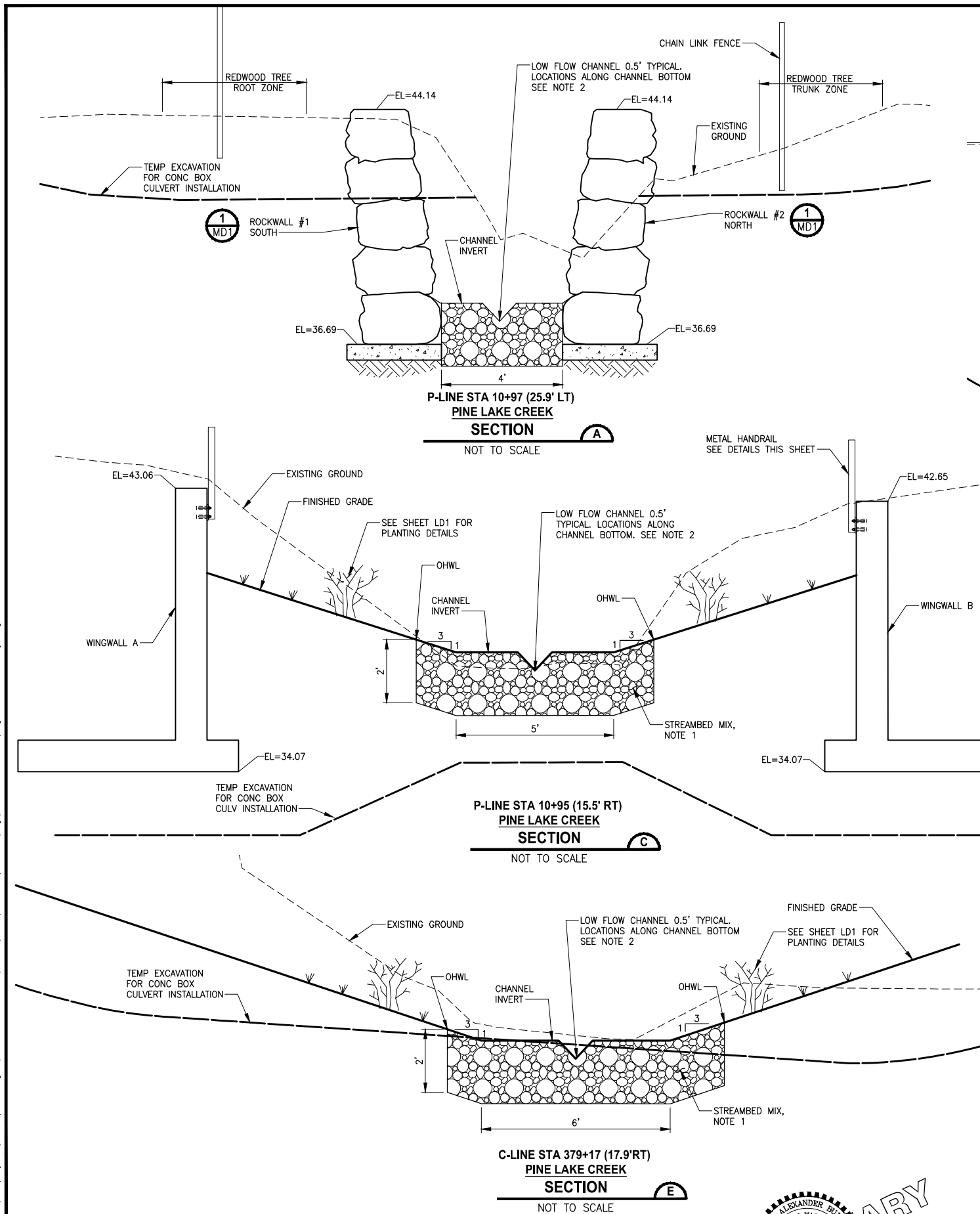
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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**
SAMMAMISH, WA

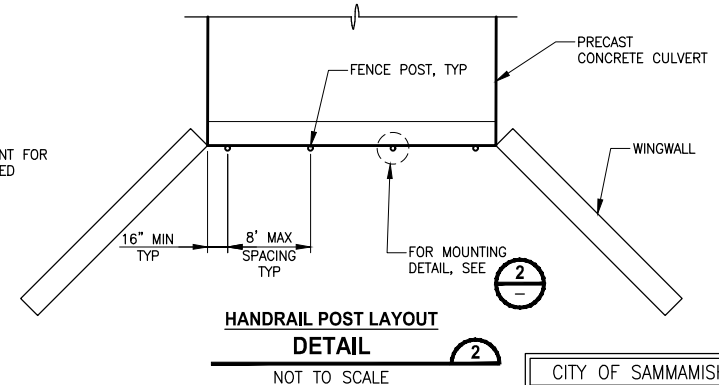
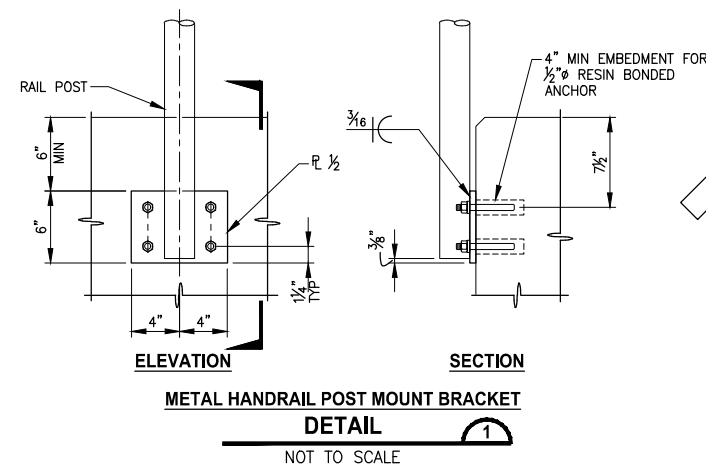
FISH PASSAGE CULVERTS

SHEET NO.
160 OF 276
FP2

PATH: U:\P50\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Sves\CADD\Phase 19\T03_Civil\Draw\ PLOTTED BY: purgubut DATE: Friday, August 2, 2019 5:17:31 PM LAYOUT: FP3



- NOTES:**
1. STREAMBED MIX SHALL CONSIST OF 25 PERCENT STREAMBED SEDIMENT AND 75 PERCENT 4-INCH STREAMBED COBBLES. STREAMBED SEDIMENT GRADATION SHALL BE PER SECTION 9-03.11(1) AND STREAMBED COBBLES (4-INCH COBBLES) GRADATION SHALL BE PER SECTION 9-03.11(2) OF THE WSDOT STANDARD SPECIFICATIONS.
 2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT 1' OFFSET ON THE OUTSIDE OF BENDS WITH SMOOTH TRANSITIONS.



CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

95 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

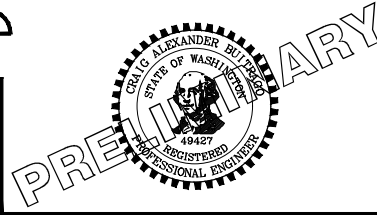
REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL1521075P19T03FP-01

JOB No.
554-1521-075 P19 T03

DATE
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PROJECT NAME

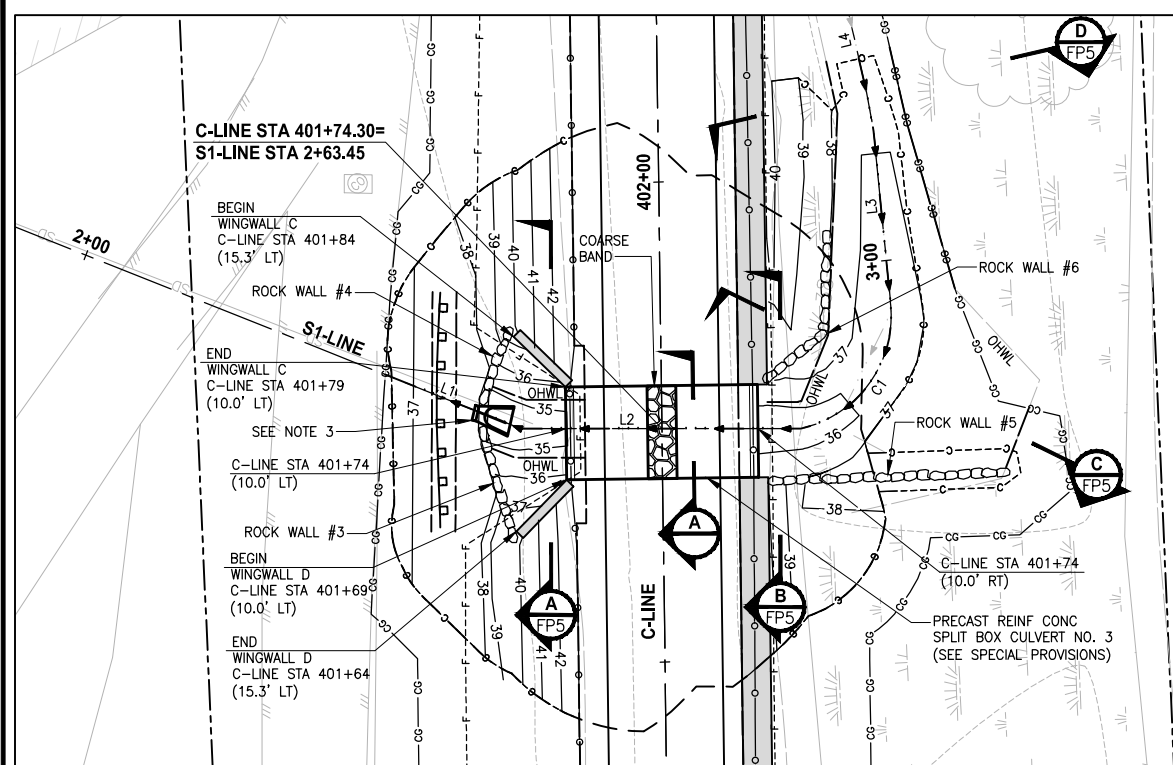
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

SAMMAMISH, WA

FISH PASSAGE CULVERTS

SHEET NO.
161 OF 276

FP3

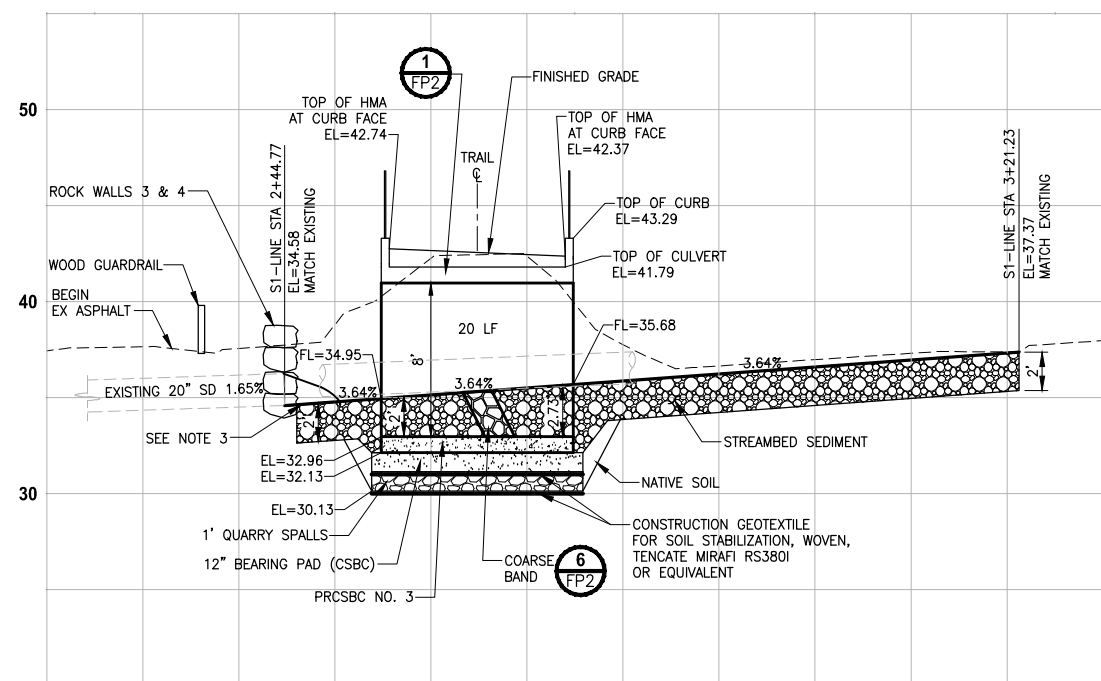
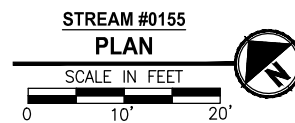


S1-LINE LINE TABLE

LINE TABLE		
LINE	LENGTH	BEARING
L1	86.66	S27° 19' 25.82"E
L2	29.19	S49° 05' 44.13"E
L3	11.85	N35° 16' 31.85"E
L4	23.96	N28° 13' 23.84"E

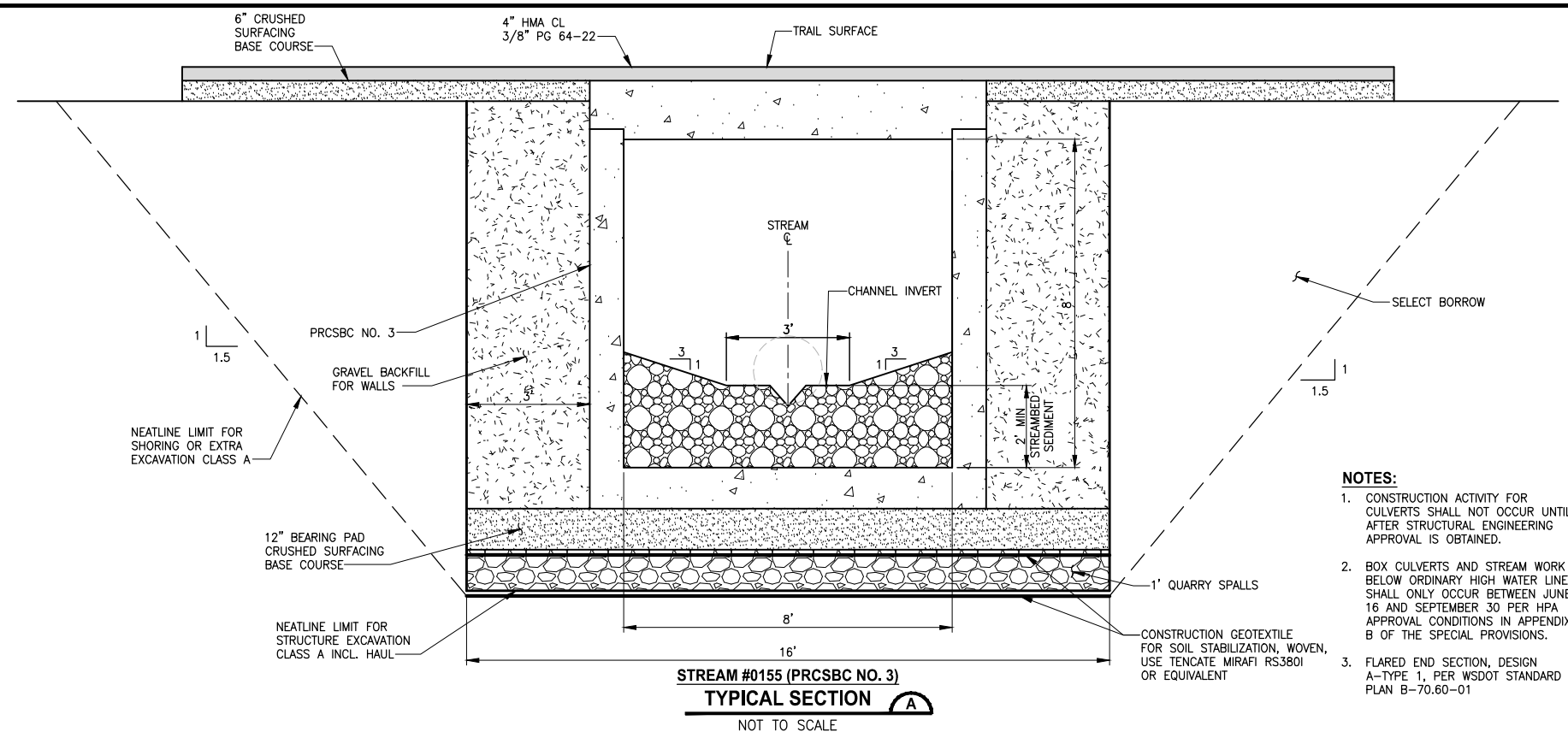
S1-LINE CURVE TABLE

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	17.72	12.03	84°25'05"

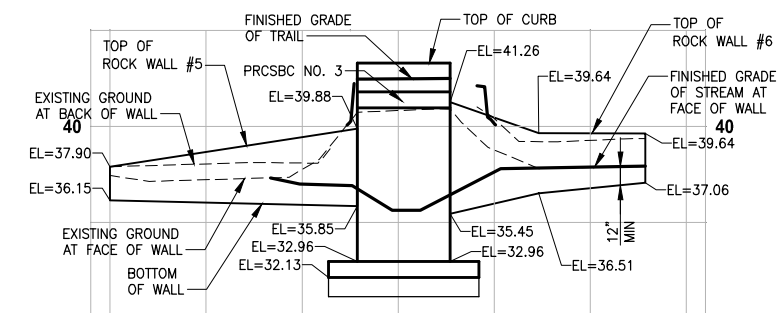


STREAM #0155
PROFILE B-LINE STA 401+75

HORIZ: 1"=10'
VERT: 1"=5'

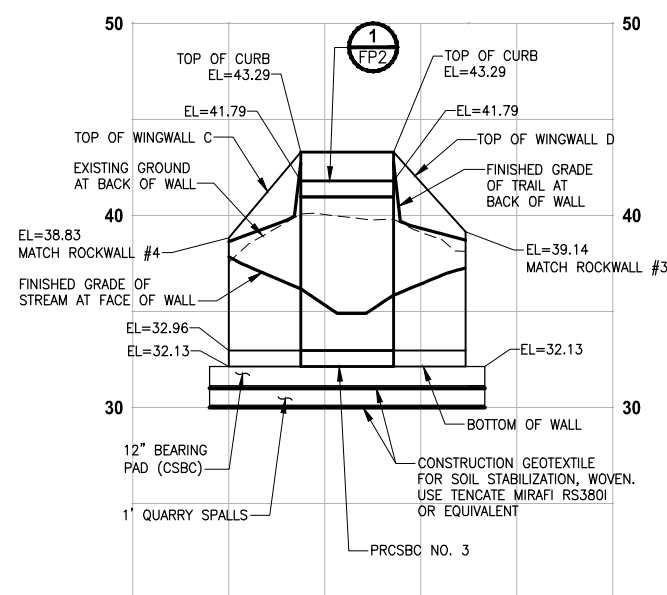


- NOTES:**
1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
 2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HFA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.
 3. FLARED END SECTION, DESIGN A-TYPE 1, PER WSDOT STANDARD PLAN B-70.60-01.



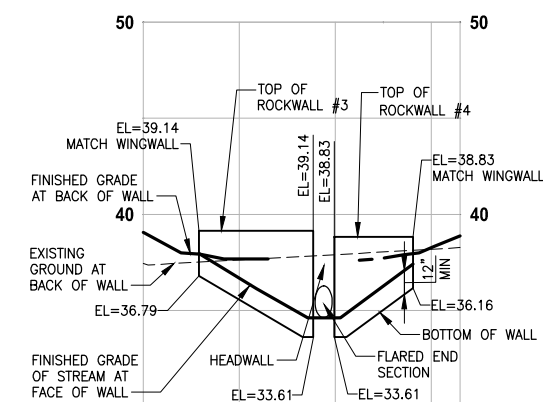
STREAM #0155
PROFILE ROCK WALL #5 & #6

HORIZ: 1"=10'
VERT: 1"=5'



STREAM #0155
PROFILE CULVERT 3 WINGWALLS C & D

HORIZ: 1"=10'
VERT: 1"=5'



STREAM #0155
PROFILE ROCK WALL #3 & #4

HORIZ: 1"=10'
VERT: 1"=5'

CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

95 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▷	REVISIONS	DATE	BY	DESIGNED C. BUITRAGO
				DRAWN B. PURGANAN
				CHECKED Y. HO
				APPROVED N. BAILEY

ONE INCH AT FULL SCALE
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL1521075P19T03FP-01

JOB No.
554-1521-075 P19 T03

DATE
AUGUST 2019



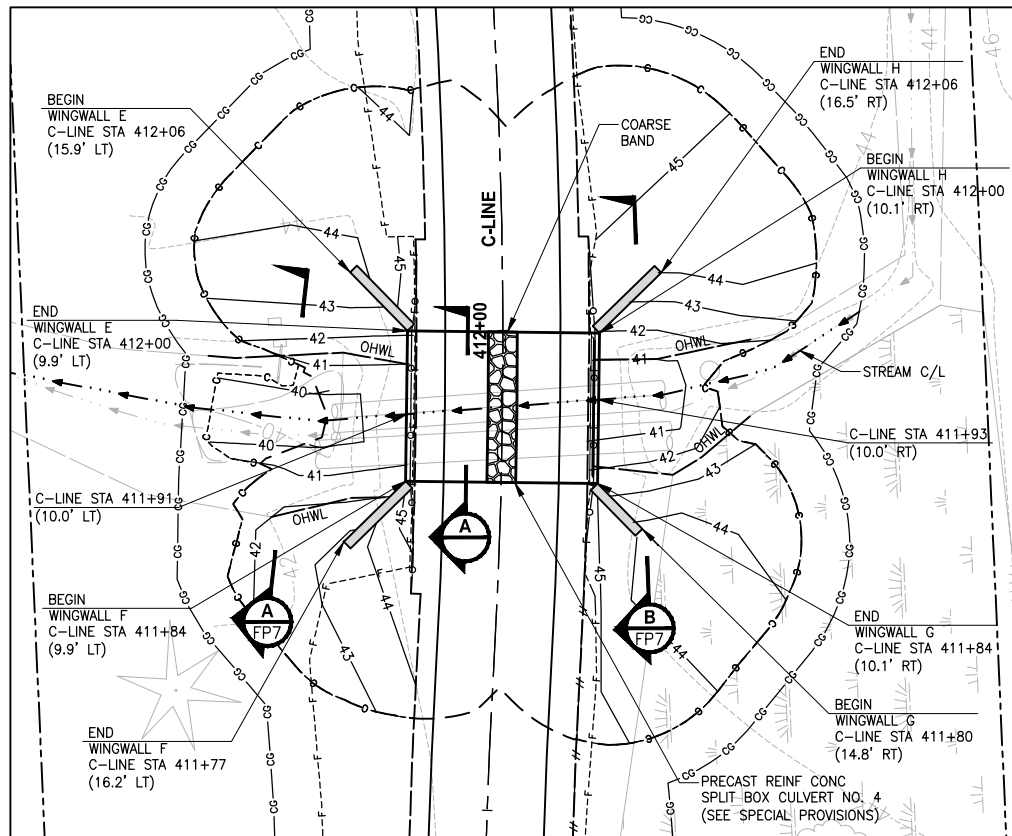
PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

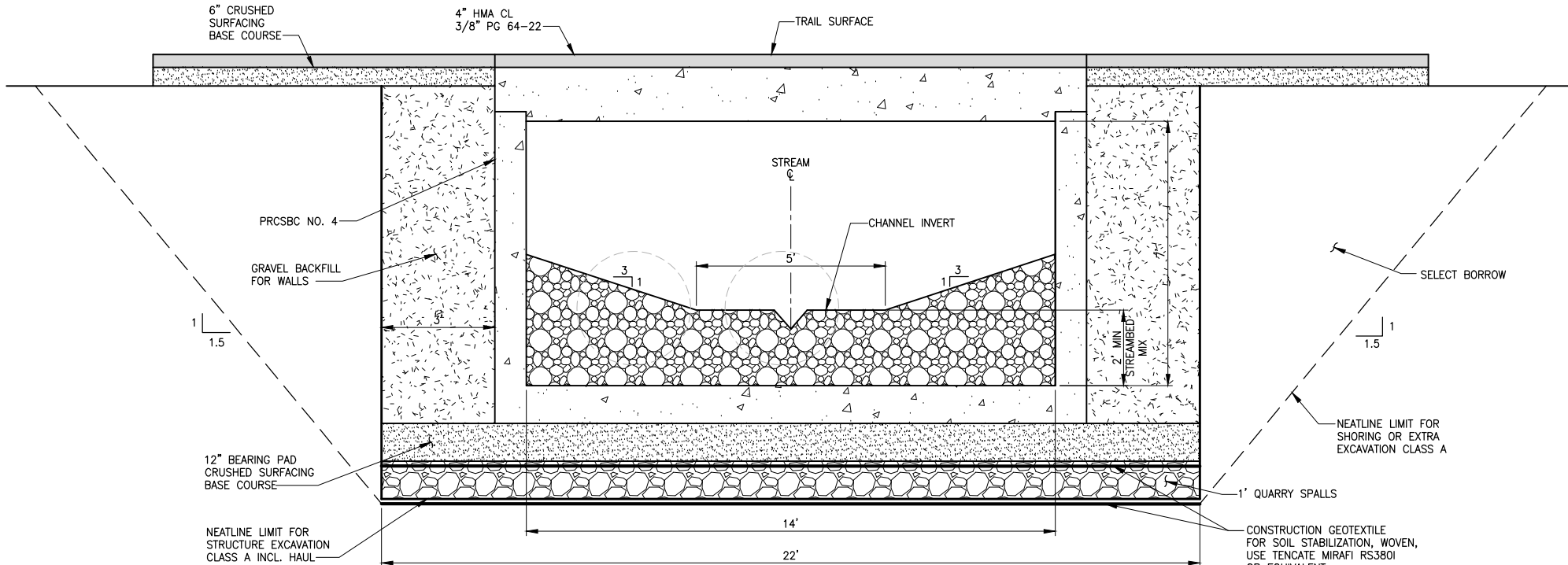
SAMMAMISH, WA

FISH PASSAGE CULVERTS

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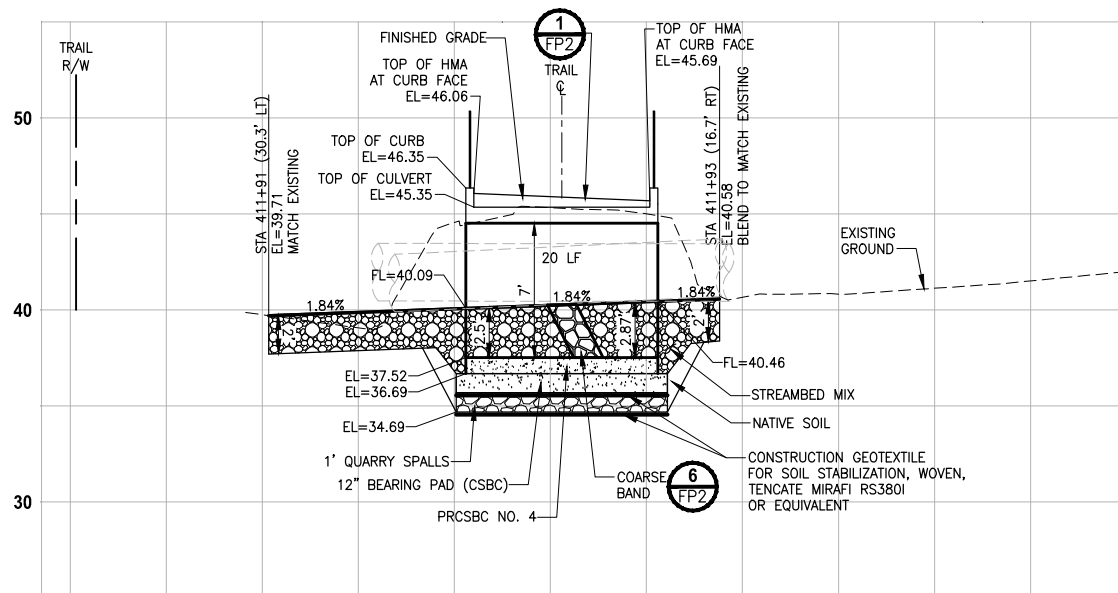


EBRIGHT CREEK (PRCSBC NO. 4)
PLAN
SCALE IN FEET
0 10' 20'

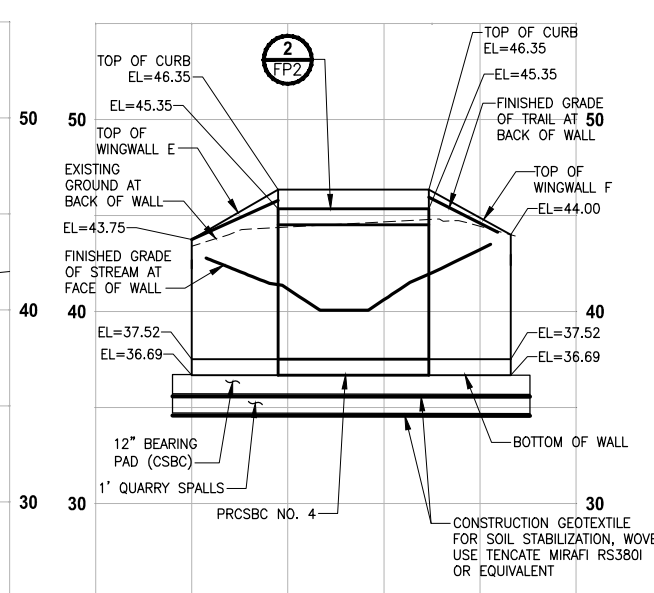


EBRIGHT CREEK (PRCSBC NO. 4)
TYPICAL SECTION A
NOT TO SCALE

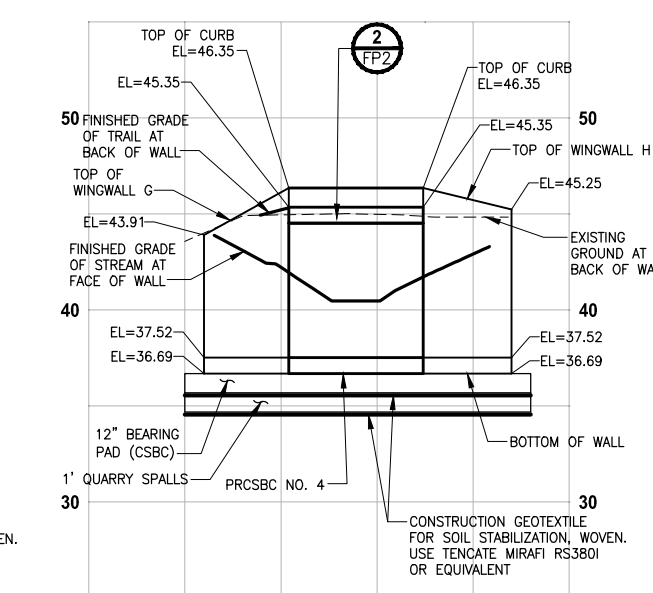
- NOTES:**
1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
 2. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.



EBRIGHT CREEK
PROFILE C-LINE STA 411+90
HORIZ: 1"=10'
VERT: 1"=5'



EBRIGHT CREEK
PROFILE CULVERT 4 WINGWALLS E & F
HORIZ: 1"=10'
VERT: 1"=5'



EBRIGHT CREEK
PROFILE CULVERT 4 WINGWALLS G & H
HORIZ: 1"=10'
VERT: 1"=5'

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

95 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME
BL1521075P19T03FP-01
JOB No.
554-1521-075 P19 T03
DATE
AUGUST 2019

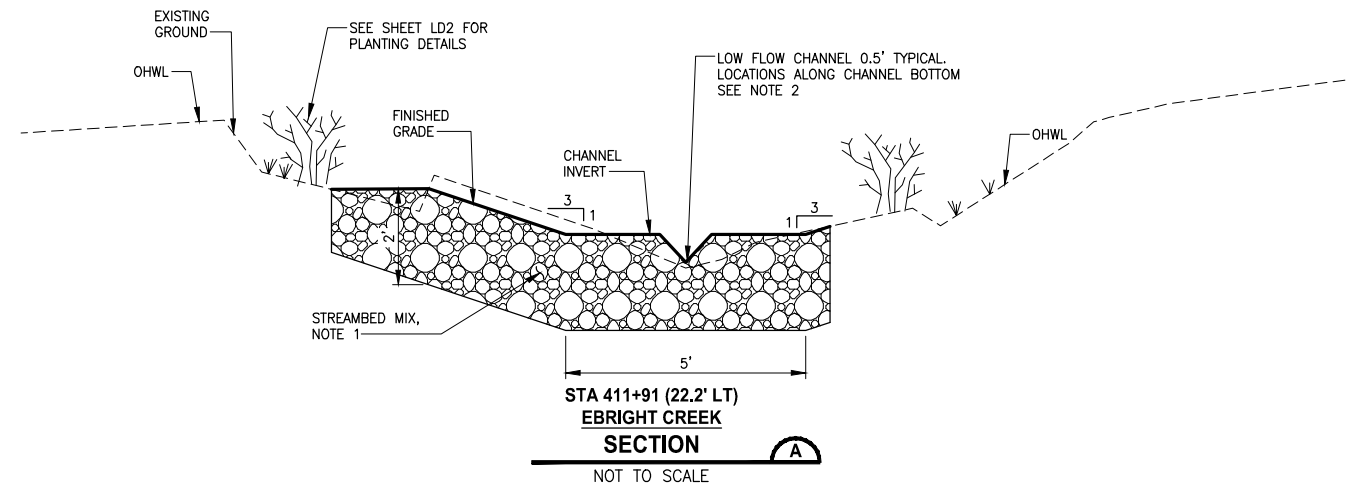


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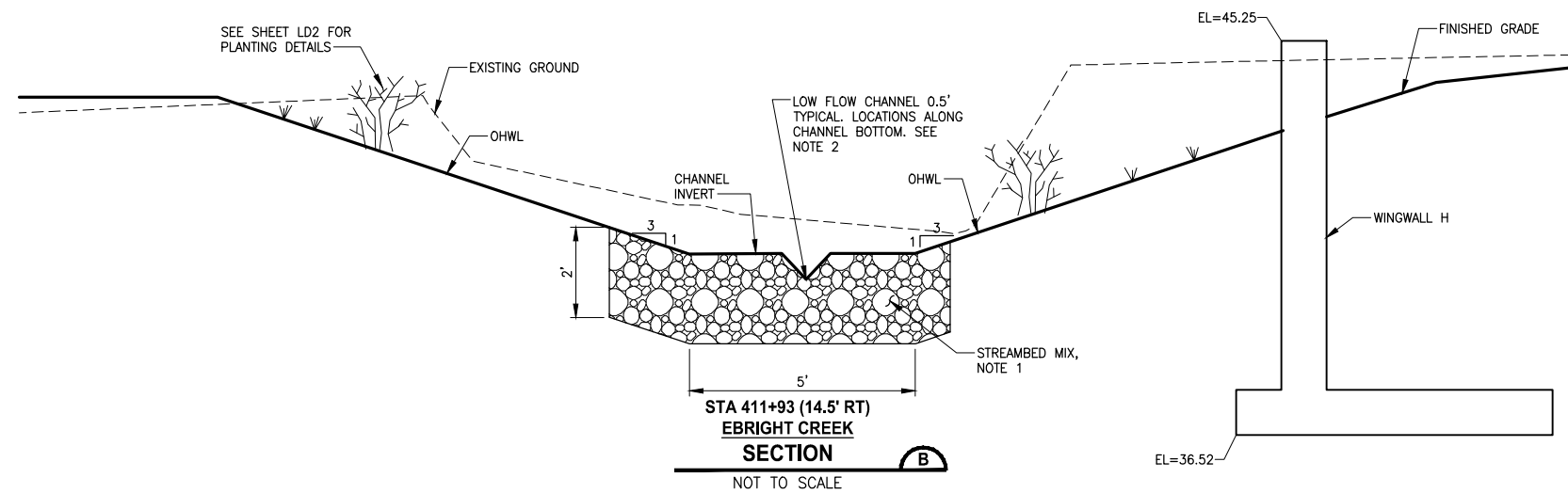
PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B
SAMMAMISH, WA

FISH PASSAGE CULVERTS

SHEET NO.
164 OF 276
FP6



- NOTES:**
1. STREAMBED MIX SHALL CONSIST OF 25 PERCENT STREAMBED SEDIMENT AND 75 PERCENT 4-INCH STREAMBED COBBLES. STREAMBED SEDIMENT GRADATION SHALL BE PER SECTION 9-03.11(1) AND STREAMBED COBBLES (4-INCH COBBLES) GRADATION SHALL BE PER SECTION 9-03.11(2) OF THE WSDOT STANDARD SPECIFICATIONS.
 2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT 1' OFFSET ON THE OUTSIDE OF BENDS WITH SMOOTH TRANSITIONS.



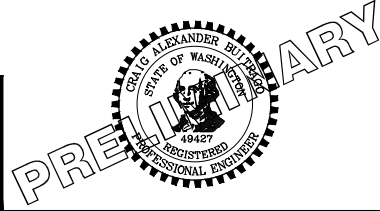
CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

95 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▽	REVISIONS	DATE	BY	DESIGNED C. BUITRAGO
				DRAWN B. PURGANAN
				CHECKED Y. HO
				APPROVED J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL1521075P19T03FP-01
JOB No.
554-1521-075 P19 T03
DATE
AUGUST 2019



PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

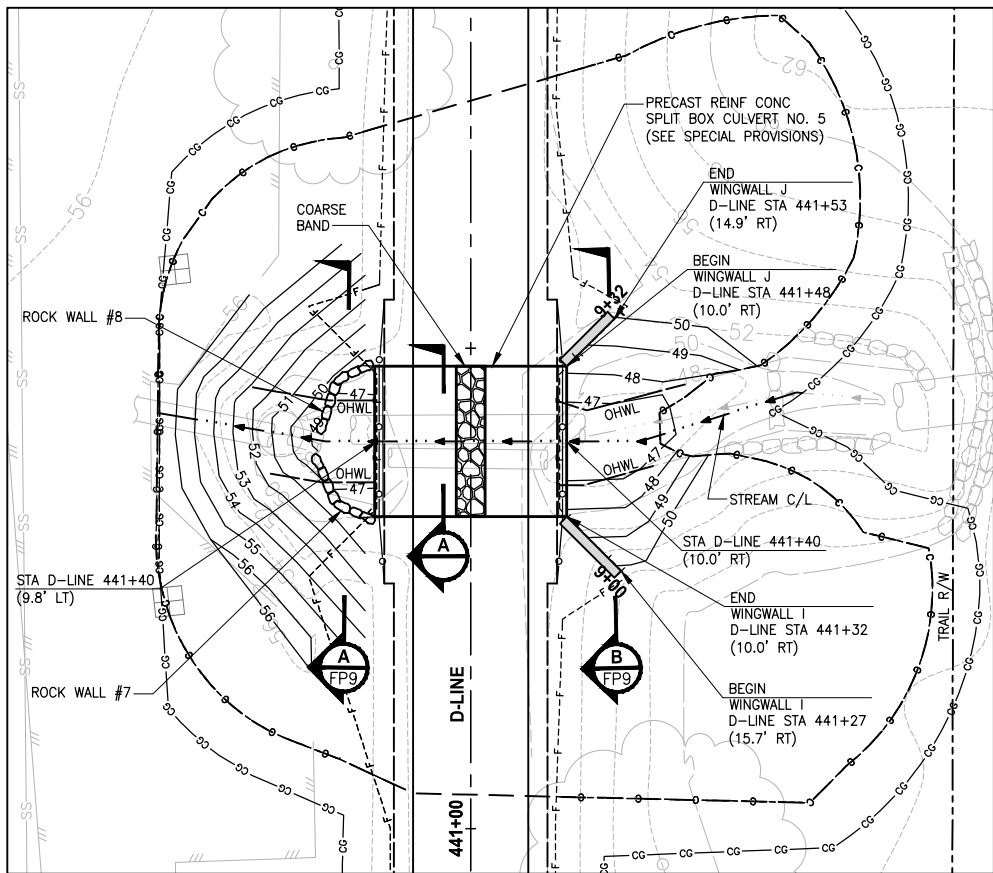
SAMMAMISH, WA

FISH PASSAGE CULVERTS

SHEET NO.
65 OF 276

FP7

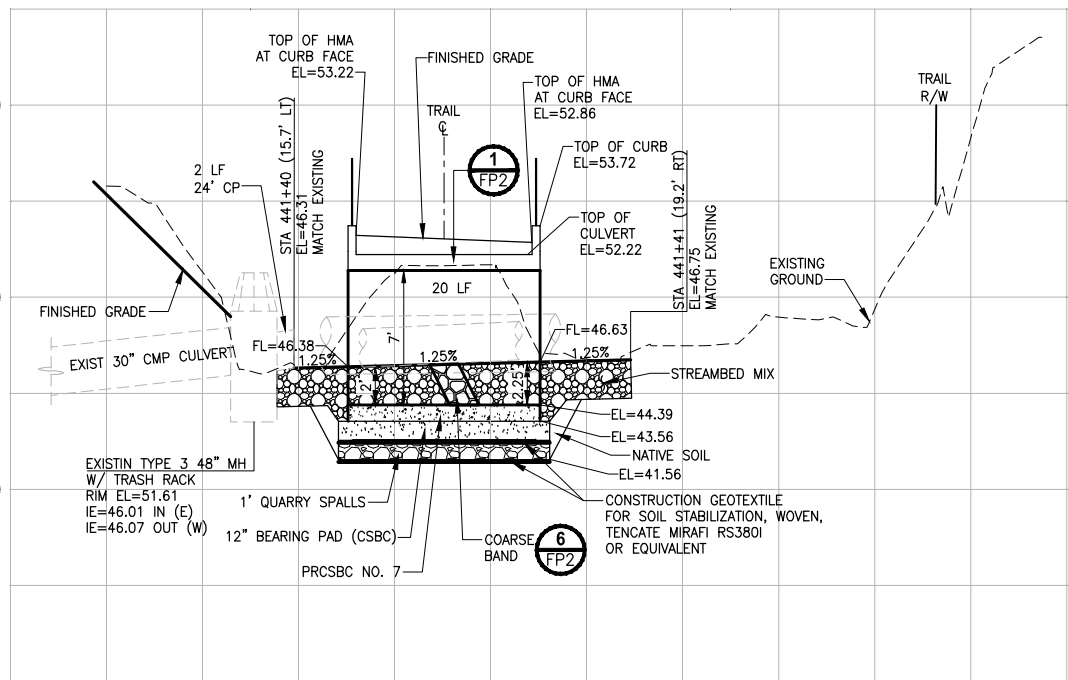
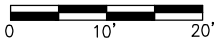
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GEORGE DAVIS CREEK
(PRCSBC NO. 5)

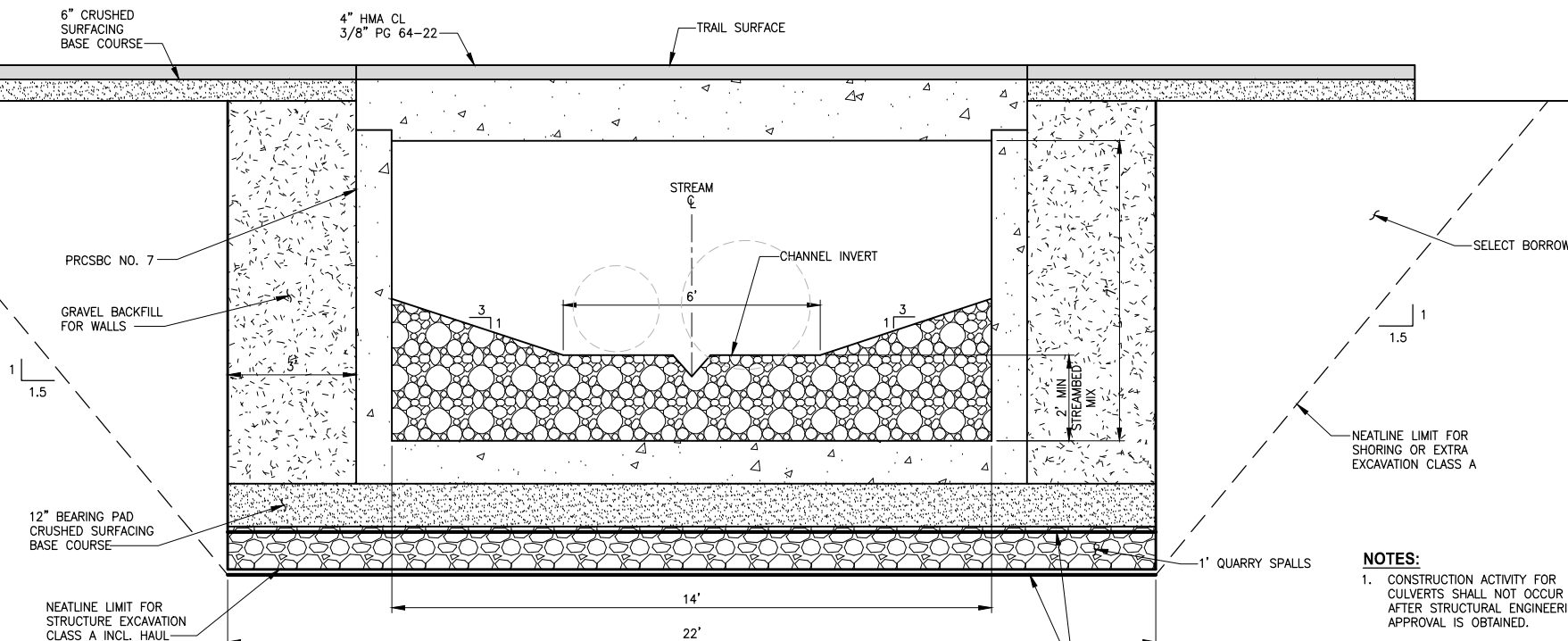
PLAN

SCALE IN FEET



GEORGE DAVIS CREEK
PROFILE D-LINE STA 441+40

HORIZ: 1"=10'
VERT: 1"=5'



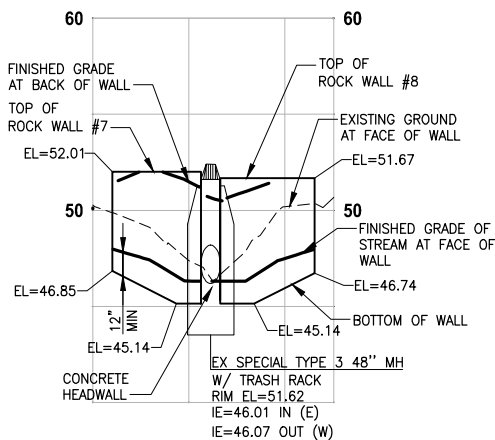
GEORGE DAVIS CREEK
(PRCSBC NO. 5)

TYPICAL SECTION

NOT TO SCALE

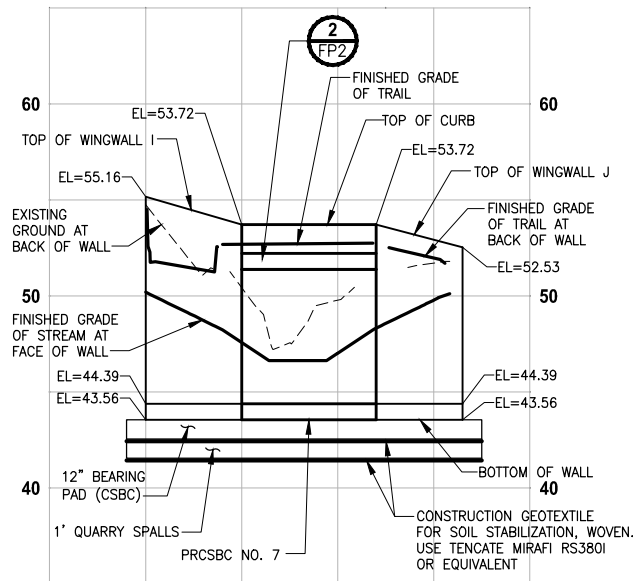
NOTES:

- CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
- BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JUNE 16 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX B OF THE SPECIAL PROVISIONS.



GEORGE DAVIS CREEK
PROFILE ROCK WALL #7 & #8

HORIZ: 1"=10'
VERT: 1"=5'



GEORGE DAVIS CREEK
PROFILE CULVERT 7 WINGWALLS I & J

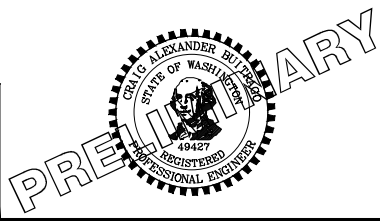
HORIZ: 1"=10'
VERT: 1"=5'

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

95 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY.
FILE NAME
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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

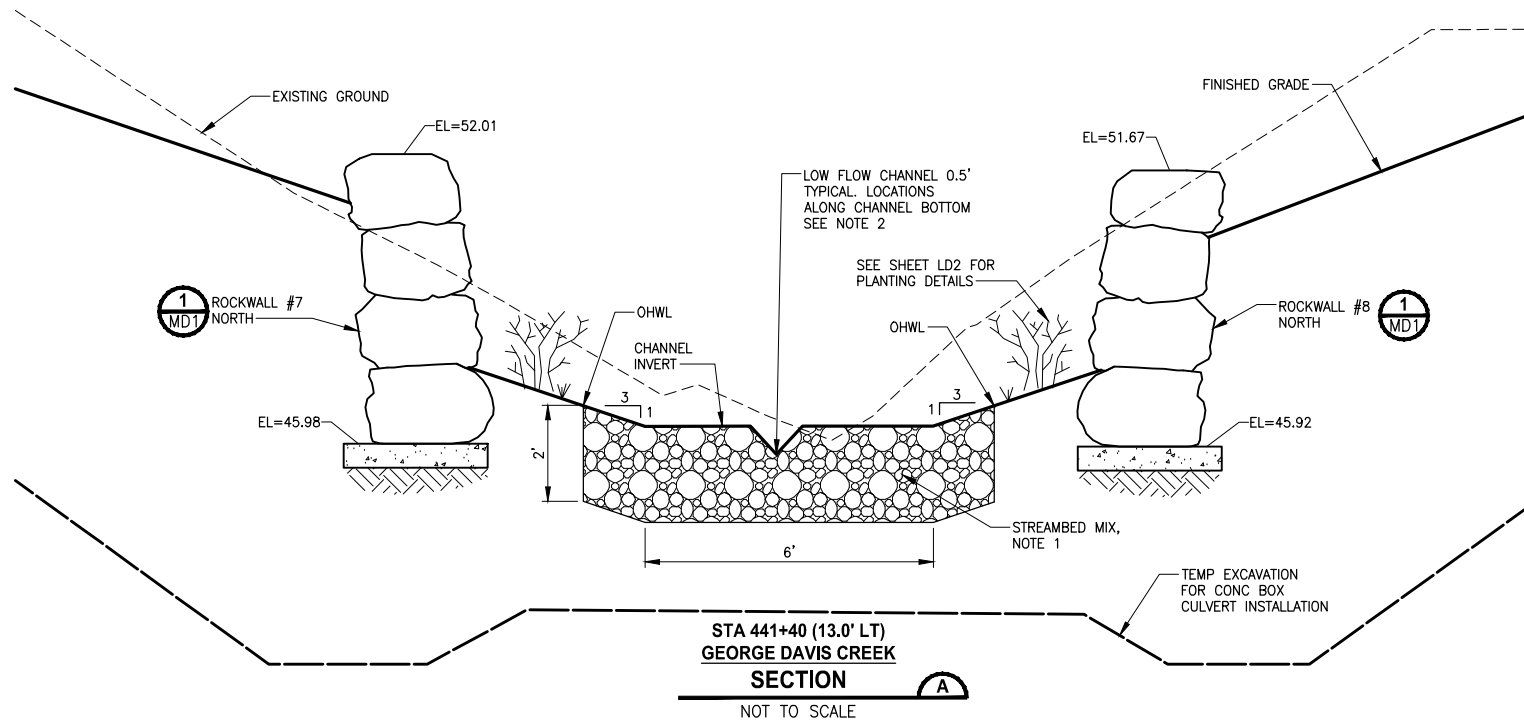
SAMMAMISH, WA

FISH PASSAGE CULVERTS

SHEET NO.
166 OF 276

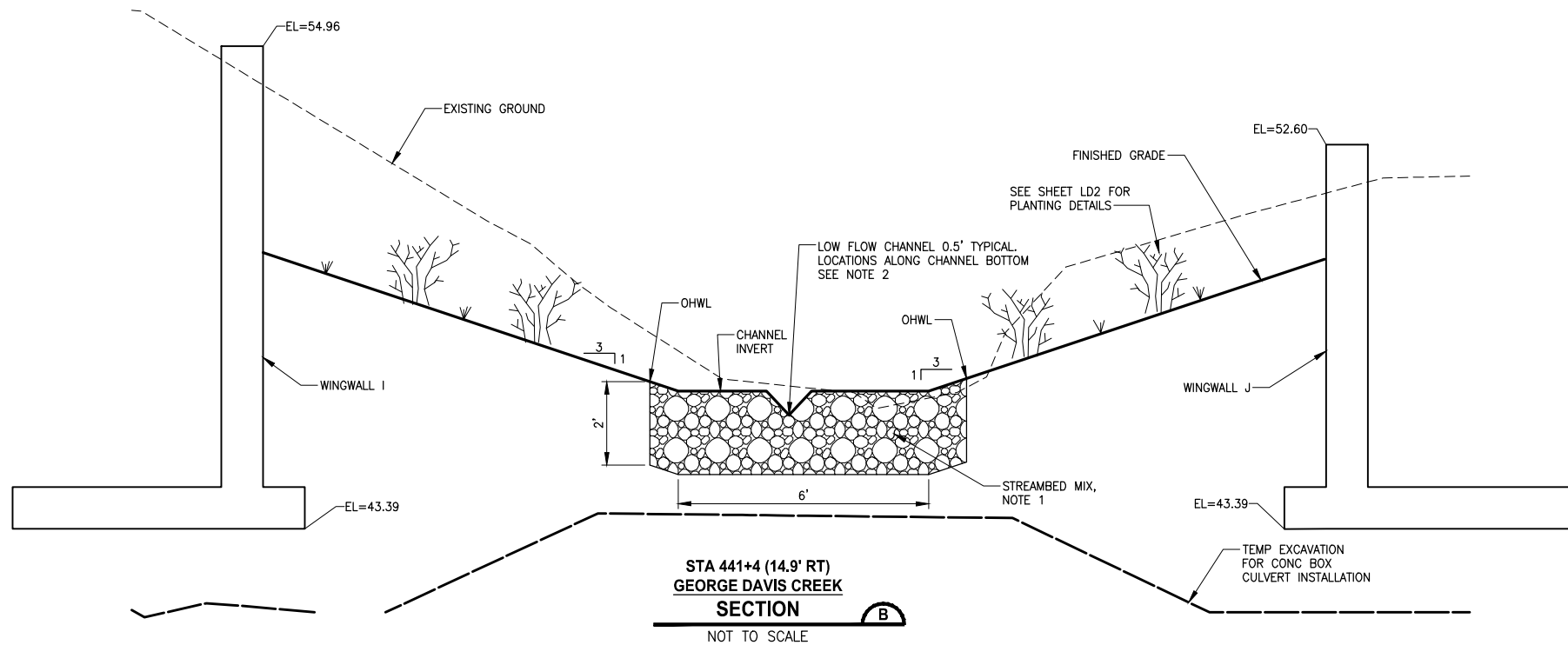
FP8

PATH: U:\P50\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Sves\CADD\Phase 19\T03_Civil\Drawg\ PLOTTED BY: purgbut DATE: Friday, August 2, 2019 5:18:48 PM LAYOUT: FP9



NOTES:

1. STREAMBED MIX SHALL CONSIST OF 25 PERCENT STREAMBED SEDIMENT AND 75 PERCENT 4-INCH STREAMBED COBBLES. STREAMBED SEDIMENT GRADATION SHALL BE PER SECTION 9-03.11(1) AND STREAMBED COBBLES (4-INCH COBBLES) GRADATION SHALL BE PER SECTION 9-03.11(2) OF THE WSDOT STANDARD SPECIFICATIONS.
2. LOCATE LOW FLOW CHANNEL AT CENTER OF CHANNEL IN TANGENT SECTIONS AND AT 1' OFFSET ON THE OUTSIDE OF BENDS WITH SMOOTH TRANSITIONS.

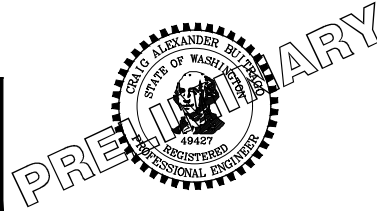


CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

95 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
BL1521075P19T03FP-01
JOB No.
554-1521-075 P19 T03
DATE
AUGUST 2019



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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

SAMMAMISH, WA

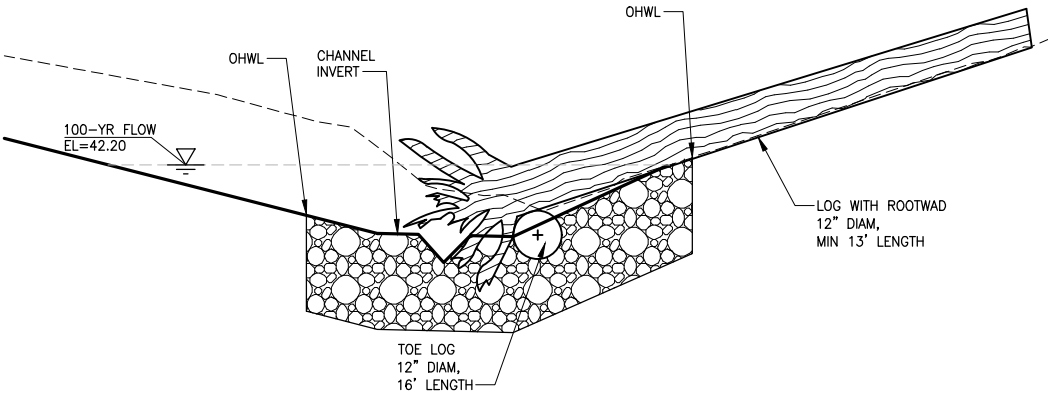
FISH PASSAGE CULVERTS

SHEET NO.
167 OF 276

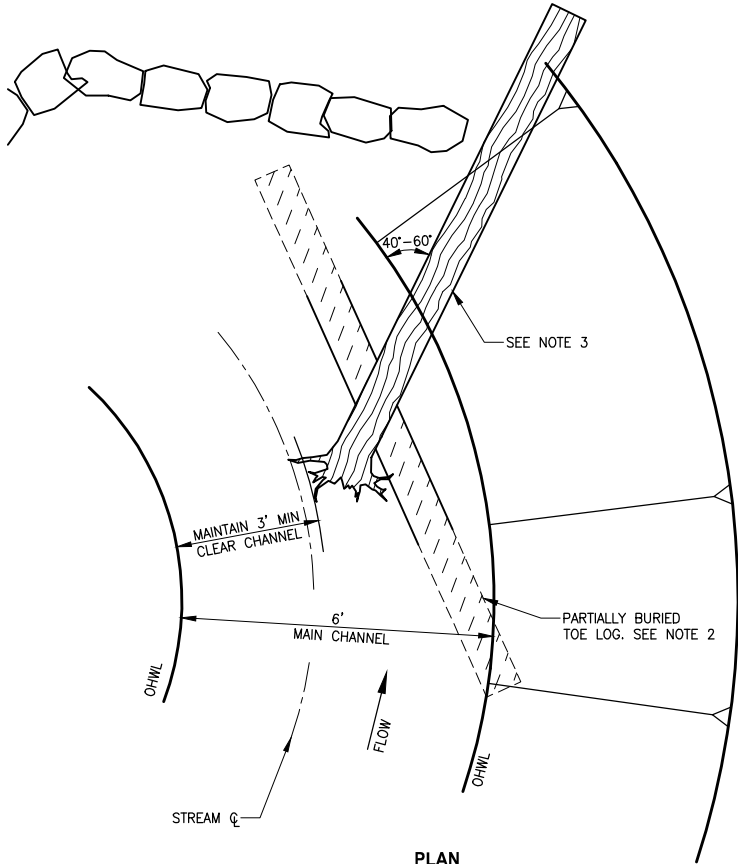
FP9

NOTES:

1. MAINTAIN 3' OF MAIN CHANNEL UNOBSTRUCTED ACROSS FROM ROOTWAD.
2. 1/2 OF THE TOTAL LENGTH OF THE TOE LOG SHALL BE BURIED WITH 1' MINIMUM COVER.
3. LOGS WITH ROOTWAD SHALL BE CONIFER TREES. LOGS WITH ROOTWAD SHALL MEET THE ACCEPTABLE DIAMETER RANGE OF 12-INCHES TO 16-INCHES MEASURED FOUR FEET FROM THE BASE. LOGS SHALL BE A MINIMUM OF 13 FEET IN LENGTH MEASURED FROM TOP OF THE ROOTWAD, AND FREE OF BRANCHES, WITH BARK AND ROOTS INTACT. ROOTS SHALL BE FREE OF ROCKS AND SOIL. SEE SPECIAL PROVISIONS SECTION 8-02.



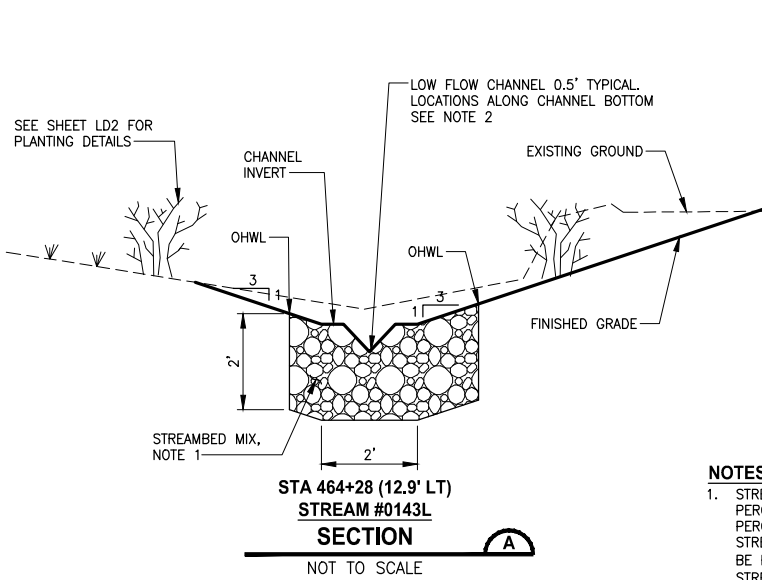
SECTION



PLAN

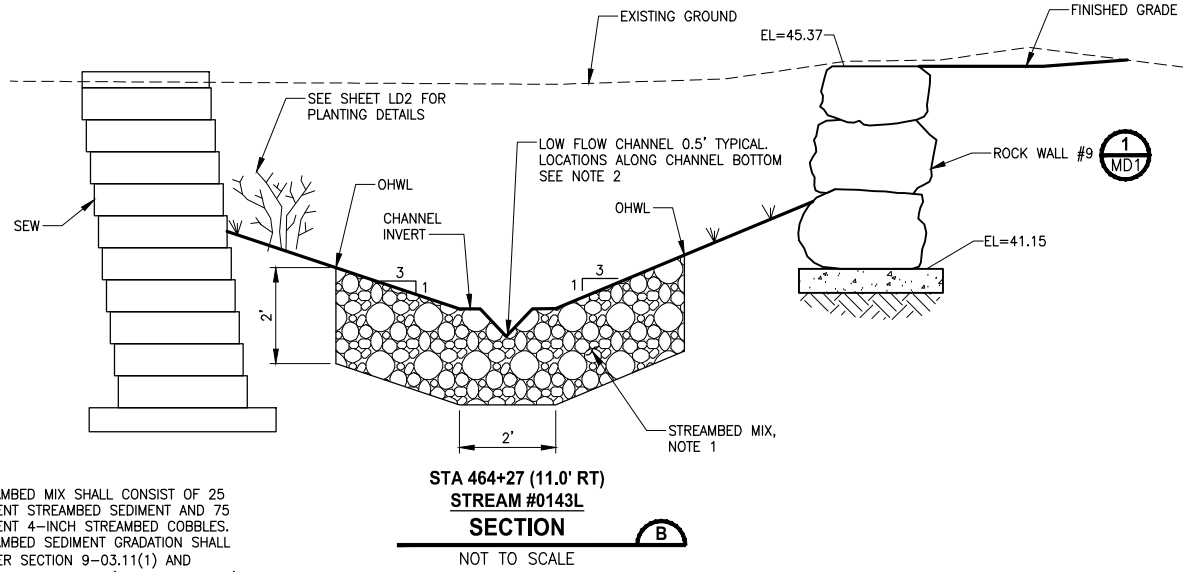
LOG WITH ROOTWAD
DETAIL

NOT TO SCALE



STA 464+28 (12.9' LT)
STREAM #0143L
SECTION A

NOT TO SCALE

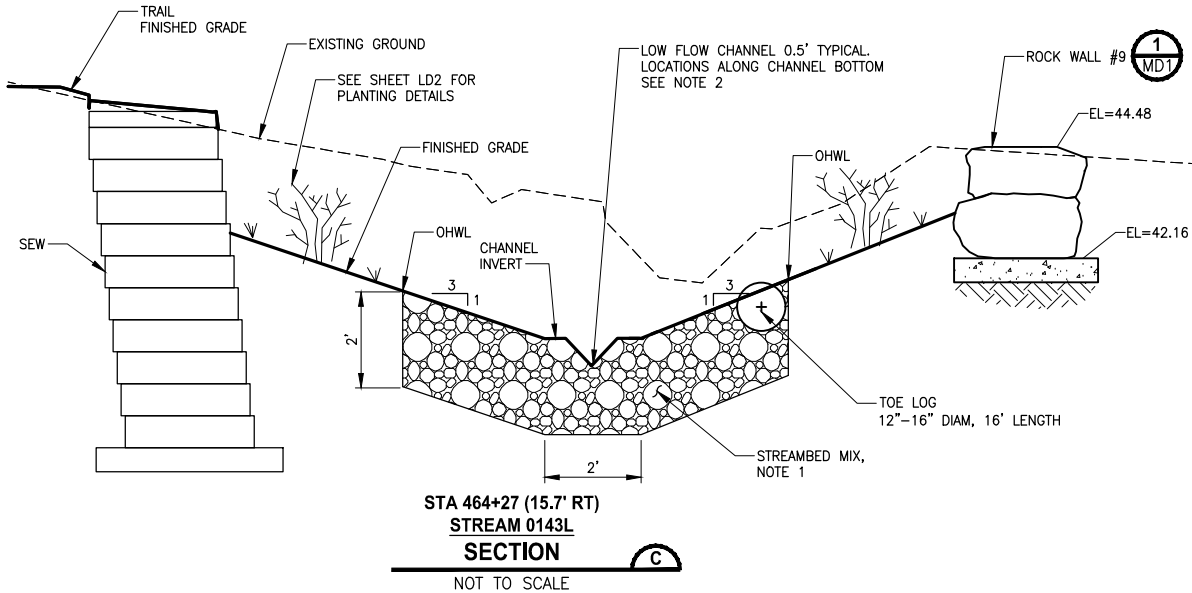


STA 464+27 (11.0' RT)
STREAM #0143L
SECTION B

NOT TO SCALE

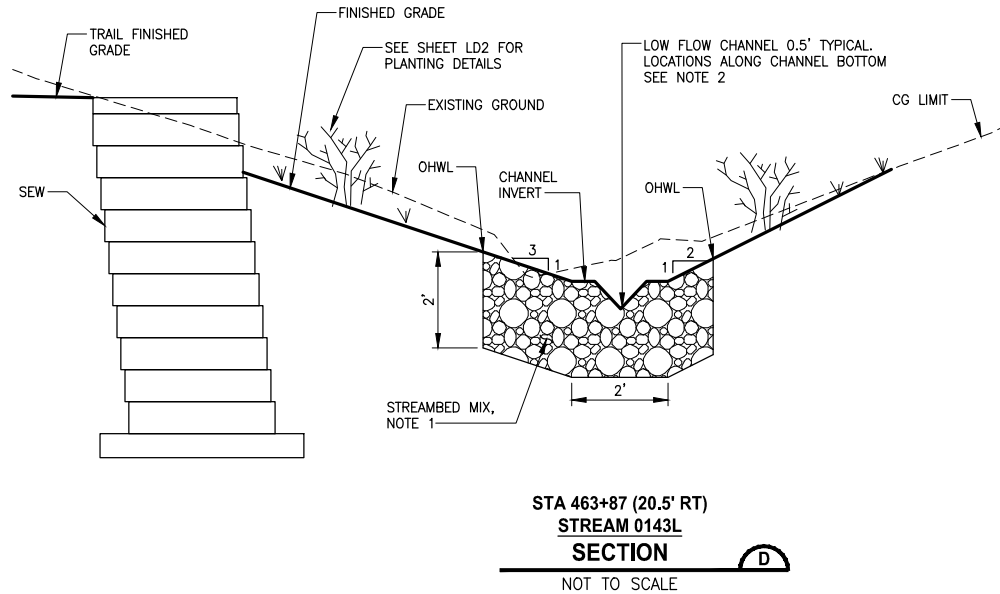
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STA 464+27 (15.7' RT)
STREAM 0143L
SECTION C

NOT TO SCALE



STA 463+87 (20.5' RT)
STREAM 0143L
SECTION D

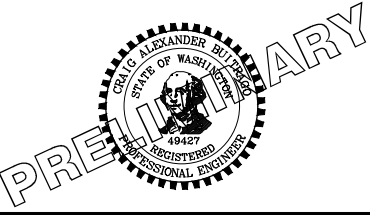
NOT TO SCALE

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EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B SAMMAMISH, WA

FISH PASSAGE CULVERTS

SHEET NO. 169 OF 276
FP11