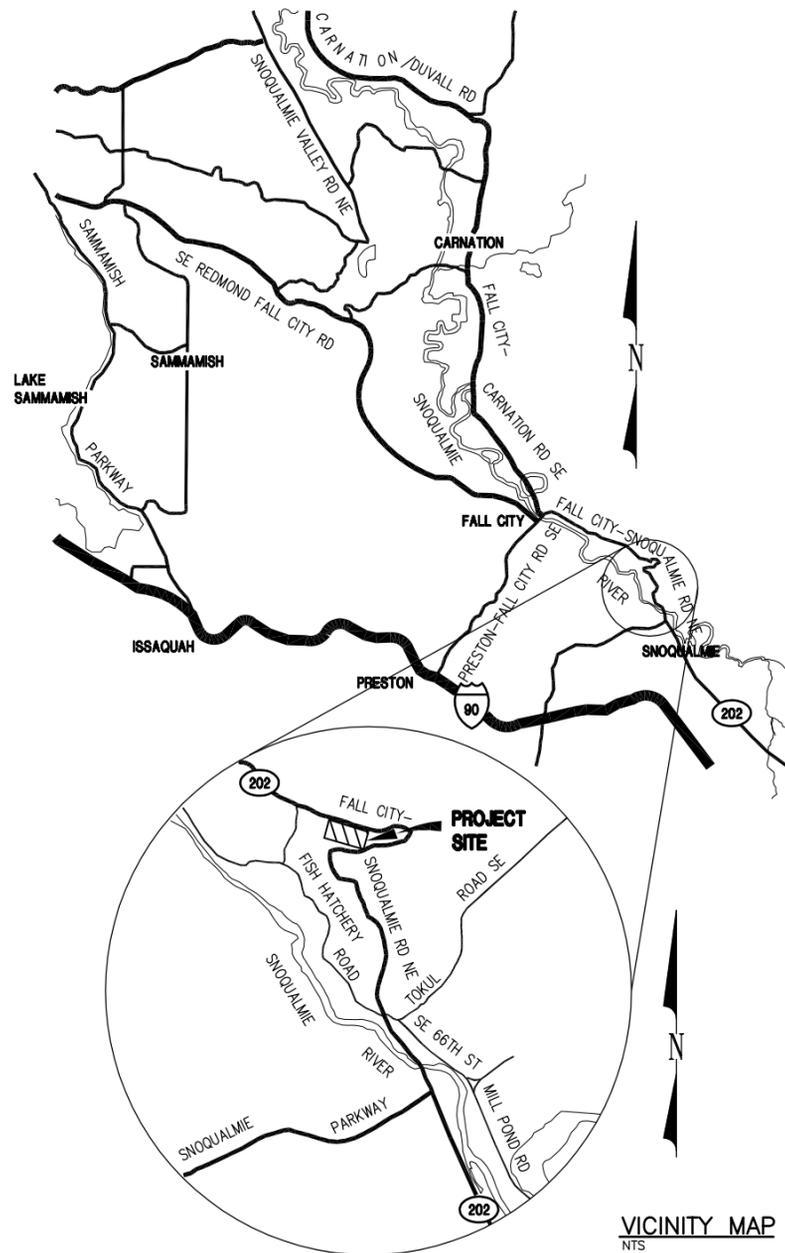
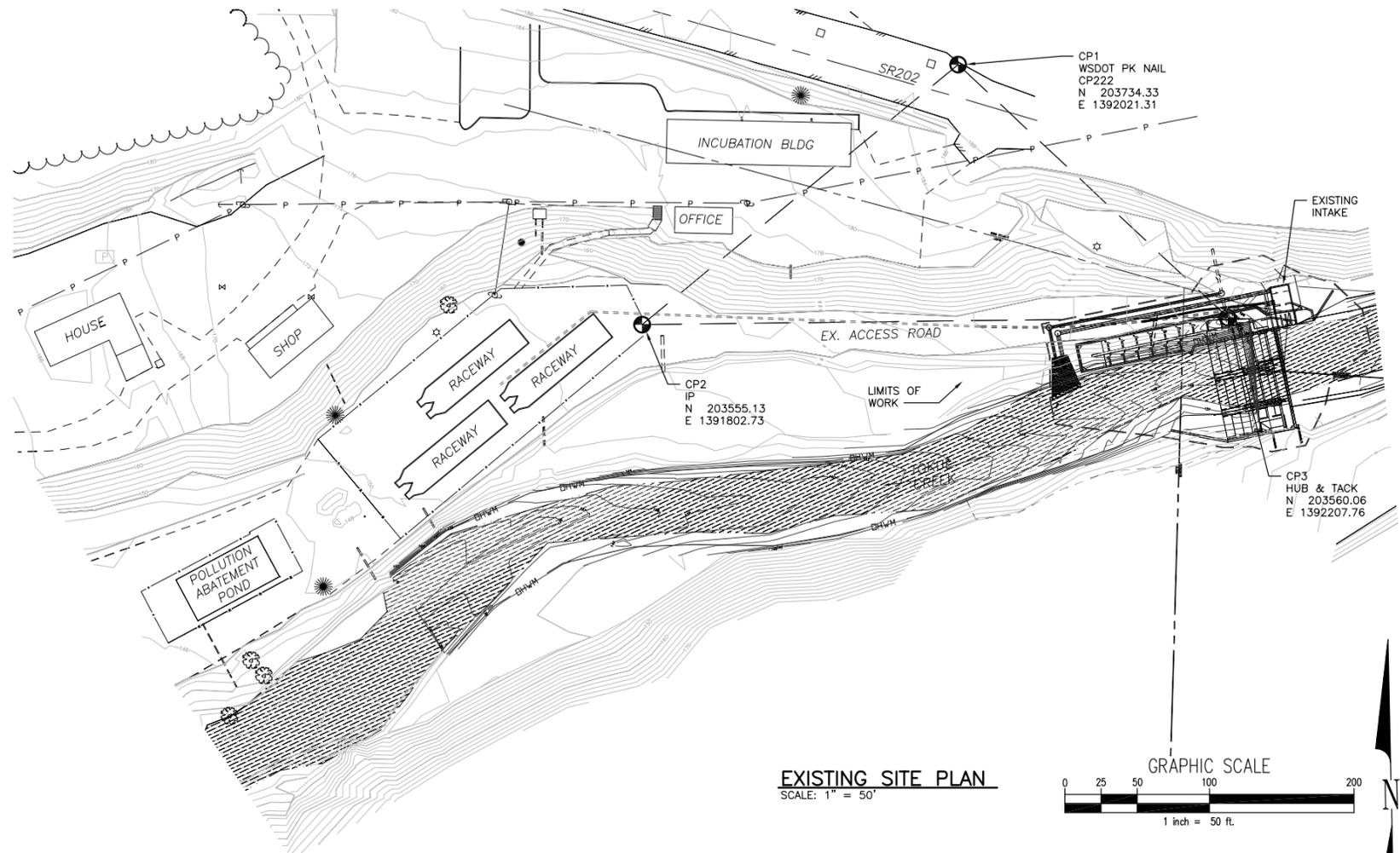


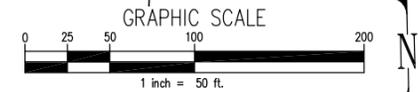
STATE MAP
NOT TO SCALE



VICINITY MAP
NTS



EXISTING SITE PLAN
SCALE: 1" = 50'



STATE ENVIRONMENTAL POLICY ACT (SEPA) CHECKLIST DRAWINGS

SHEET #	PAGE TITLE IN FINAL DRAFT PLAN SET
2	EXISTING SITE PLAN AND VICINITY MAP
4	TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN
5	TEMPORARY EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS
12	SITE PLAN / HORIZONTAL CONTROL
27	PLANTING PLAN
33	GENERAL STRUCTURAL PLANS
34	WEIR PLAN
35	WEIR CROSS SECTION
47	FISH PASSAGE & INTAKE STRUCTURE SURFACE FEATURES PLAN
50	FISH PASSAGE CROSS SECTIONS
51	FISH PASSAGE CROSS SECTIONS

NOTES: THESE EXCERPTS FROM THE DRAFT CONSTRUCTION DRAWINGS ILLUSTRATE THE FULL EXTENT OF POTENTIAL ADVERSE IMPACTS AND ARE REFERENCED THROUGHOUT THE CHECKLIST

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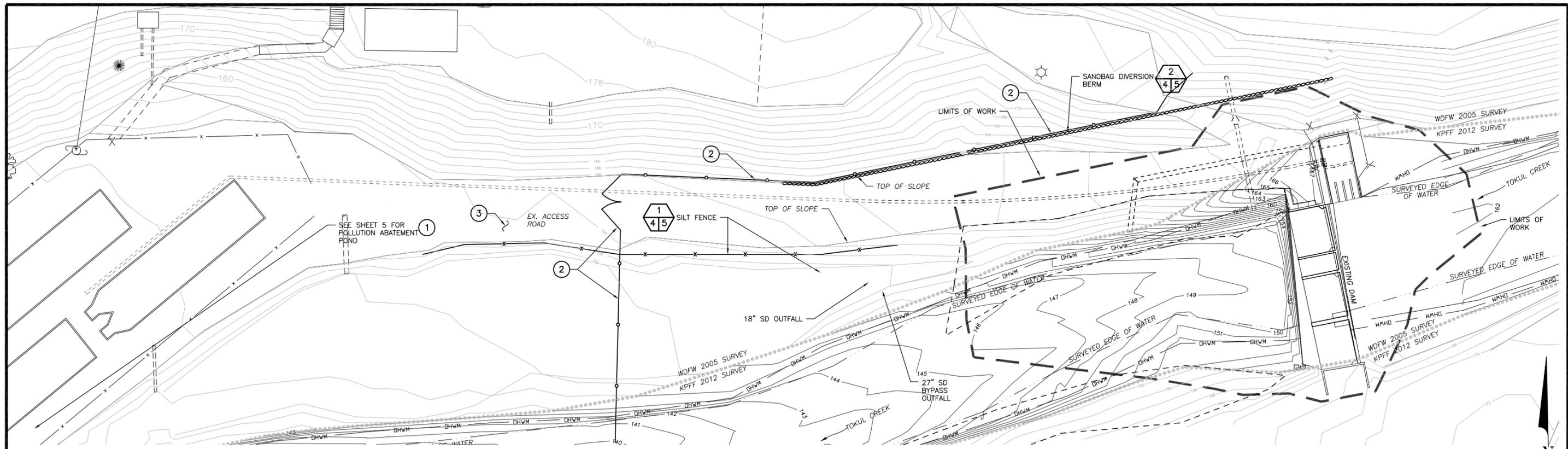
WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE	DESIGNED BY	HCD
PROGRAM	DATE	CHECKED BY	SWK
		DRAWN BY	MRK
		DATE	12/28/12

TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
EXISTING SITE
AND VICINITY MAP

PROJECT NO.
KG:H104

SHEET OF
2 69

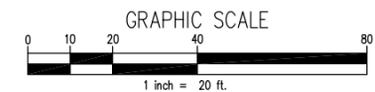


EROSION AND SEDIMENTATION CONTROL (ESC) NOTES

1. FOR THE PURPOSES OF TEMPORARY EROSION/SEDIMENTATION CONTROL ON THIS PROJECT THE TERM "SEDIMENT" SHALL INCLUDE SOIL SEDIMENTS AS WELL AS SAWDUST, CONCRETE, AND OTHER DEBRIS OR PARTICULATE MATTER RESULTING FROM CONSTRUCTION ACTIVITIES.
2. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION STORMWATER PERMIT INCLUDING PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR.
3. IN THE EVENT THAT EROSION OR SEDIMENTATION OCCURS ON ADJACENT PROPERTY, ALL CONSTRUCTION WORK THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
4. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE FIRST STAGE OF SITE PREPARATION.
5. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES, AS NECESSARY, TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES AND/OR STORM DRAINAGE SYSTEMS.
6. IN ANY AREA WHICH HAS BEEN STRIPPED OF VEGETATION OR EXPERIENCED LAND DISTURBING ACTIVITIES, AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD EXCEEDING 48 HRS, ALL DISTURBED AREAS MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING OR APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION.
7. ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON-SITE TO PREVENT DEBRIS, DUST AND MUD FROM ENTERING AND/OR ACCUMULATING IN THE PUBLIC RIGHT-OF-WAY OR TOKUL CREEK.
8. THE ESC FACILITIES SHOWN ON THIS SHEET ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER TOKUL CREEK OR LEAVE THE SITE.
9. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO ENSURE THEIR CONTINUED FUNCTIONING.
10. THE ESC FACILITIES ON INACTIVE AREAS OF THE SITE SHALL BE CONTINUOUSLY MAINTAINED AND INSPECTED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT.
11. THE CONTRACTOR SHALL PROTECT STOCKPILE AND EXCAVATION AREAS FROM THE RELEASE OF SEDIMENT. STOCKPILES SHALL BE COVERED AT ALL TIMES WHILE NOT IN USE TO KEEP THE STORED MATERIAL DRY. REFER TO SHEET 5 FOR ALLOWABLE STOCKPILE LOCATIONS.
12. SANDBAGS, GEOFABRIC AND/OR OTHER METHODS SHALL BE USED AROUND STOCKPILE AND EXCAVATION AREAS TO PREVENT RUNOFF OF SEDIMENTS.
13. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL REMAIN UNTIL FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY CONTROLS ARE NO LONGER NEEDED, WHICHEVER IS LATER. TRAPPED SEDIMENT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

TESC PLAN

SCALE: 1" = 20'



EROSION AND SEDIMENTATION CONTROL (ESC) KEYNOTES

1. CONSTRUCTION SEDIMENTATION PONDS AS REQUIRED TO TREAT RUNOFF FROM THE PROJECT SITE AND WATER REMOVED DURING DEWATERING OPERATIONS. TRAPPED SEDIMENT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
2. THE TOKUL CREEK HATCHERY IS ACCESSIBLE TO THE PUBLIC, INSTALL CONSTRUCTION FENCING AND GATES TO SECURE THE PROJECT SITE.
3. PLACE QUARRY SPALLS ON EXISTING ACCESS ROAD IF REQUIRED TO MAINTAIN ROAD SURFACE IN A STABLE CONDITION DURING CONSTRUCTION ACTIVITIES. REMOVE QUARRY SPALLS AT PROJECT COMPLETION AND RESTORE ROAD SURFACE AS NOTED ON SHEET 5.

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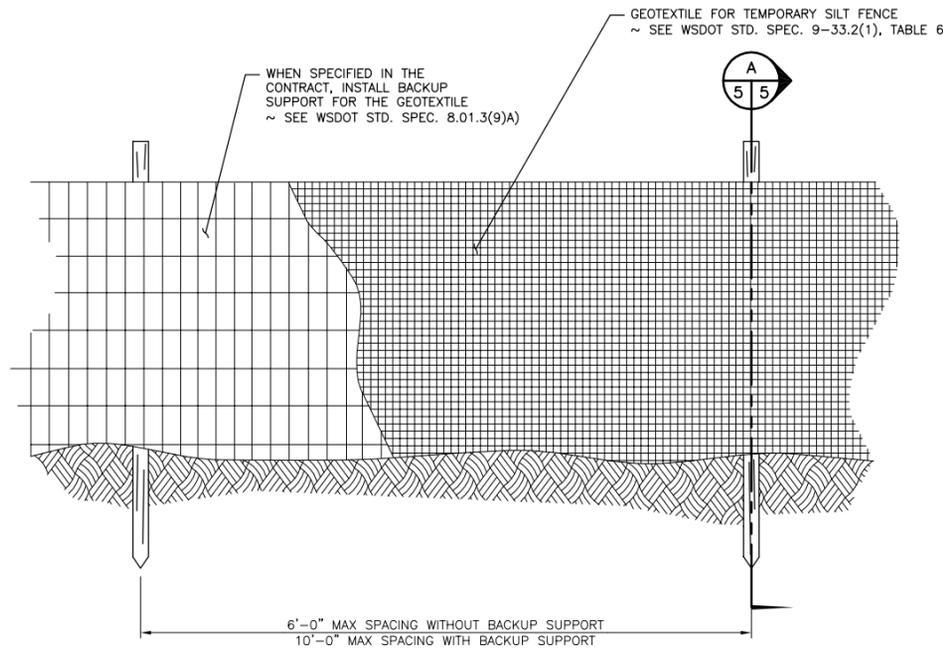
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APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE	DESIGNED BY	DATE
PROGRAM	DATE	CHECKED BY	DATE
		DRAWN BY	DATE
			12/28/12

**TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
TEMPORARY EROSION AND
SEDIMENTATION CONTROL PLAN**

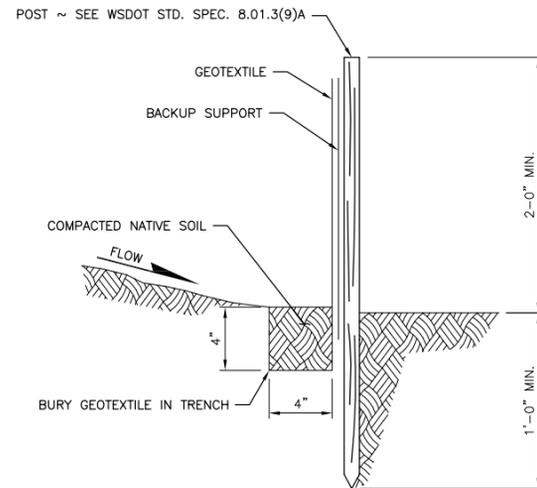
PROJECT NO.
KG:H104
SHEET 4 OF 69

NOTES:

1. MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM TOE OF SLOPE AS POSSIBLE WITHOUT ENCRUCHING ON SENSITIVE AREAS OR OUTSIDE OF THE CLEARING BOUNDARIES.
2. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
3. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS 8.01.3(9)A AND 8.01.3(15).

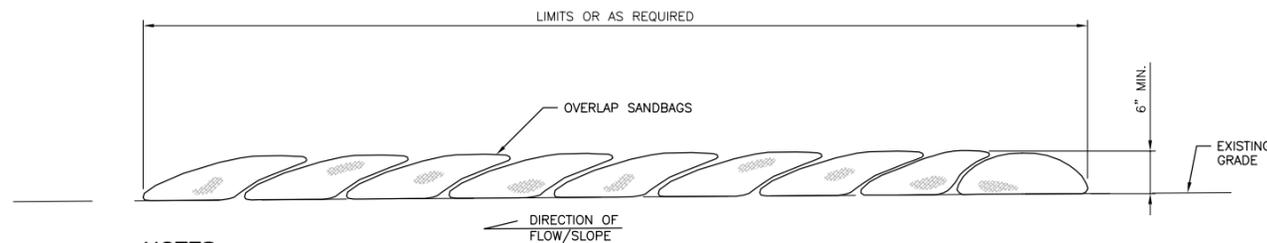


ELEVATION VIEW



SECTION A 5 5

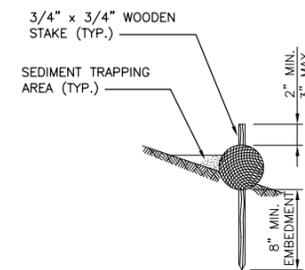
SILT FENCE DETAIL 1
SCALE: NTS



NOTES:

1. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL AND SAND, LAYERED AND PACKED TIGHTLY.
2. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT.

SANDBAG DIVERSION BERM DETAIL 2
SCALE: NTS



ELEVATION VIEW

STRAW WATTLES DETAIL 3
SCALE: NTS

**APPENDIX A
FINAL DRAFT REVIEW**

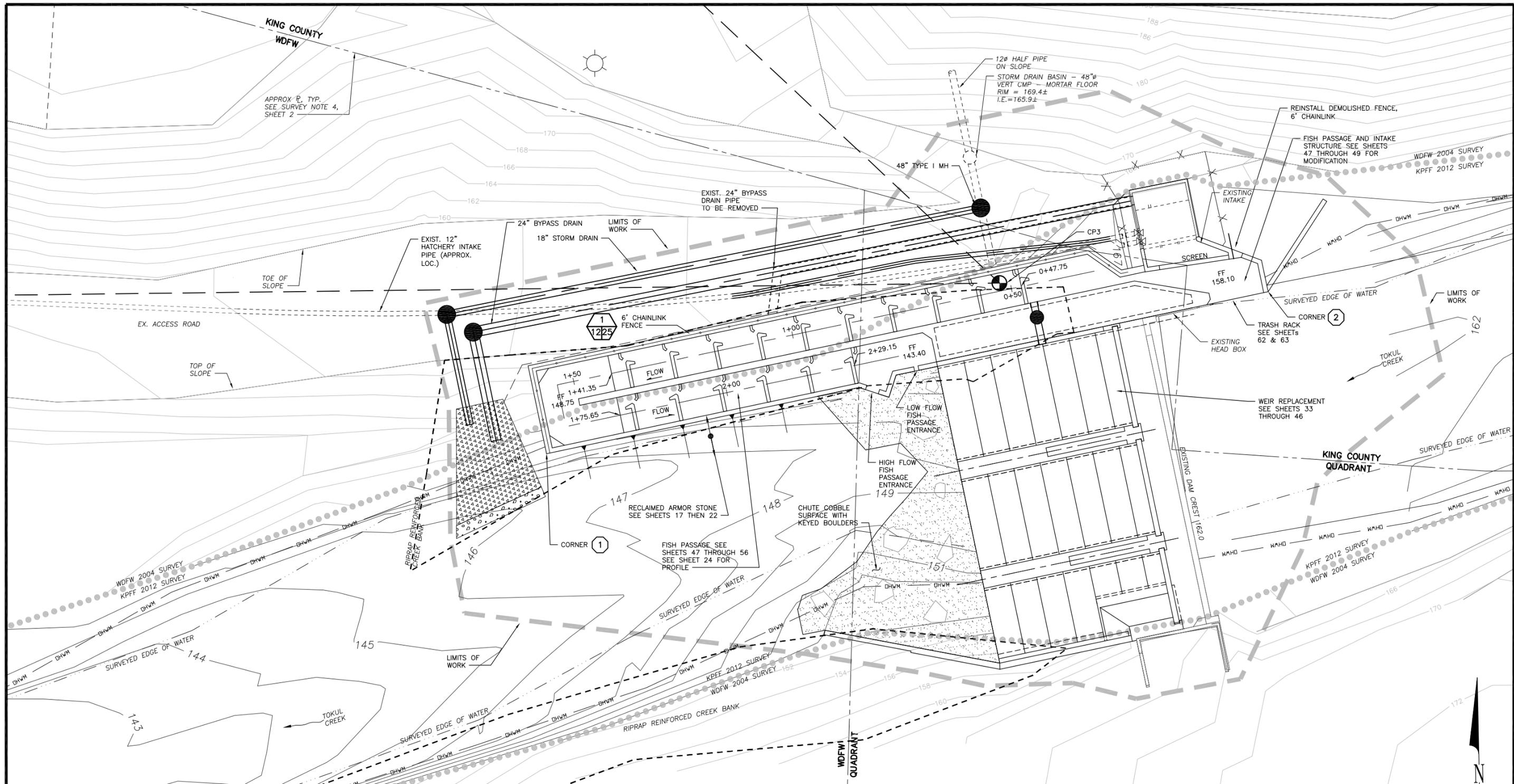
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APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE:		
PROGRAM	DATE:		

0 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

DESIGNED BY	HCD
CHECKED BY	SWK
DRAWN BY	MRK
DATE	12/28/12

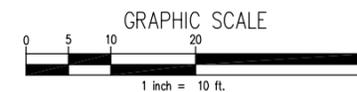
TOKUL CREEK HATCHERY	
FISH PASSAGE & WEIR RESTORATION	
TEMPORARY EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS	

PROJECT NO. KG:H104	
SHEET 5	OF 69



PLAN

LAYOUT SCHEDULE		
NO.	NORTHING	EASTING
1	203514.65	1392061.61
2	203558.12	1392267.83



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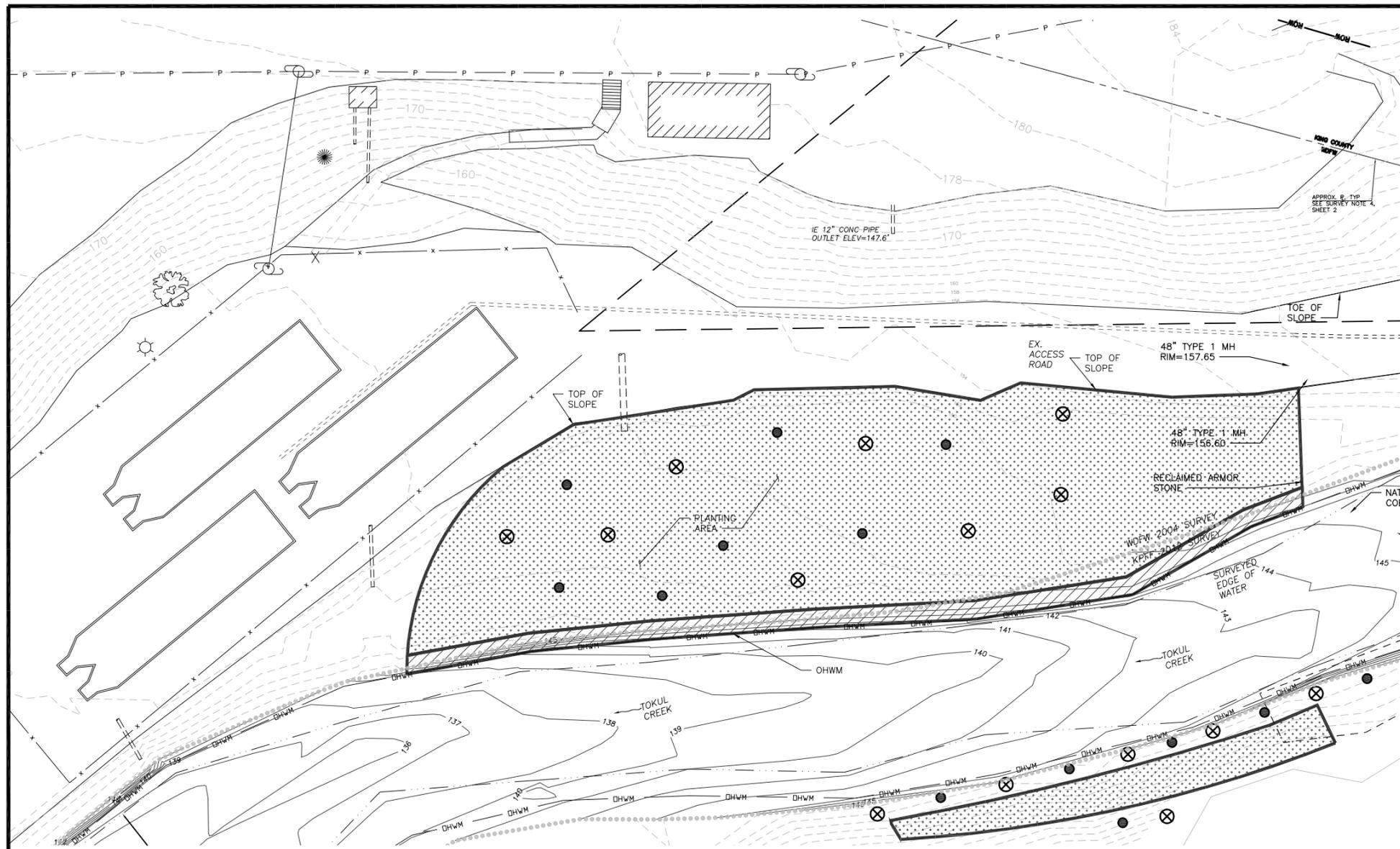
SYM	DATE	REVISION DESCRIPTION	BY
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CHIEF ENGINEER	DATE:		
PROGRAM	DATE:		

DESIGNED BY IDF
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DRAWN BY MRK
DATE 12/28/12

TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
SITE PLAN / HORIZONTAL CONTROL

PROJECT NO.
KG:H104

SHEET OF
12 69

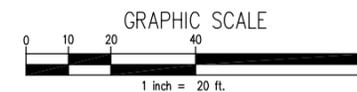


PLANTING PLAN
SCALE: 1" = 20'

PLANTING LIST				
SYMBOL	PLANT SPECIES	PLANT TYPE	SPACING (FEET ON CENTER)	NUMBER OF PLANTS
	PACIFIC WILLOW	LIVE STAKES (ALONG WETTED PERIMETER)	3 (SPARSE)	50
	COMMON SNOWBERRY	BARE ROOT SHRUBS, 18"-36"	6 (AVERAGE)	48
	GRAND FIR	TREES, 1 GAL 18"+	10 (DENSE)	13
	WESTERN RED CEDAR	TREES, 1 GAL 18"+	10 (DENSE)	14

NOTES:

- KEEP ROOTS MOIST UNTIL PLANTING.
- AFTER PLANTING ALL PLANTS SHALL BE MULCHED WITH 2' DIAMETER X 3" THICK LAYER OF COURSE BARK.
- PLANTINGS SHALL BE WATERED AND KEPT MOIST AT LEAST THROUGH MID-OCTOBER.



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PROGRAM	DATE:		

DESIGNED BY SWK
CHECKED BY SWK
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DATE 12/28/12

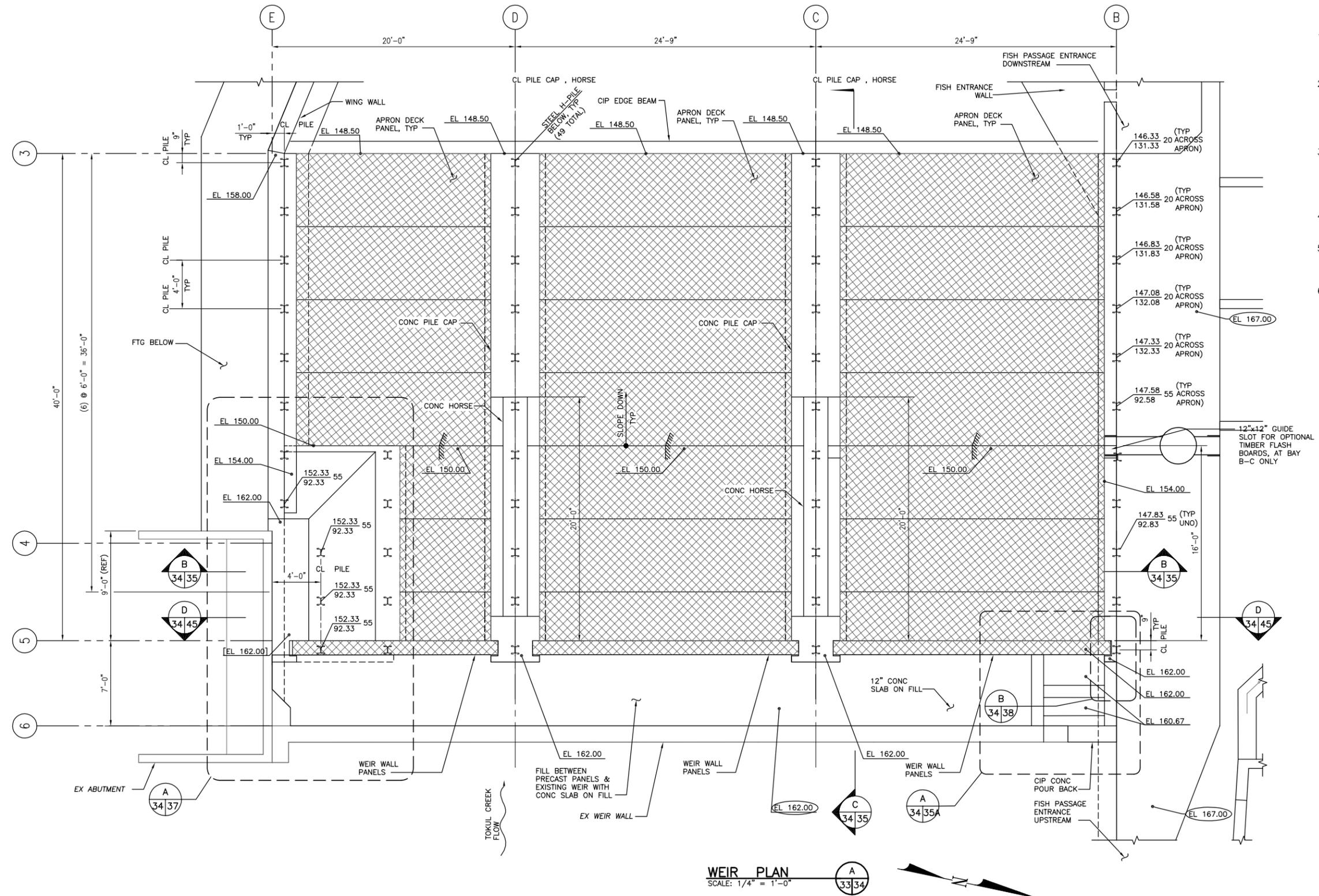
**TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
PLANTING PLAN**

PROJECT NO.
KG:H104
SHEET **27** OF **69**

- NOTES:**
- INDICATES PRECAST CONCRETE PANELS
 - FOR APRON PANEL PLACEMENT PLAN SEE **A 3442**
 - XXX.XX PILE CUT OFF ELEVATION

XXX.XX REQUIRED ALLOWABLE CAPACITY (TON), TYP

PILE TIP ELEVATION FT
 - HP8x36 STEEL PILE W/ PRUYN POINT SHOES OR EQUAL
 - SEE SHEET 36 FOR PILE CAP/HORSE ALONG GRIDS C & D
 - SEE **1 3439** FOR TYPICAL PILE DETAIL



WEIR PLAN
SCALE: 1/4" = 1'-0"

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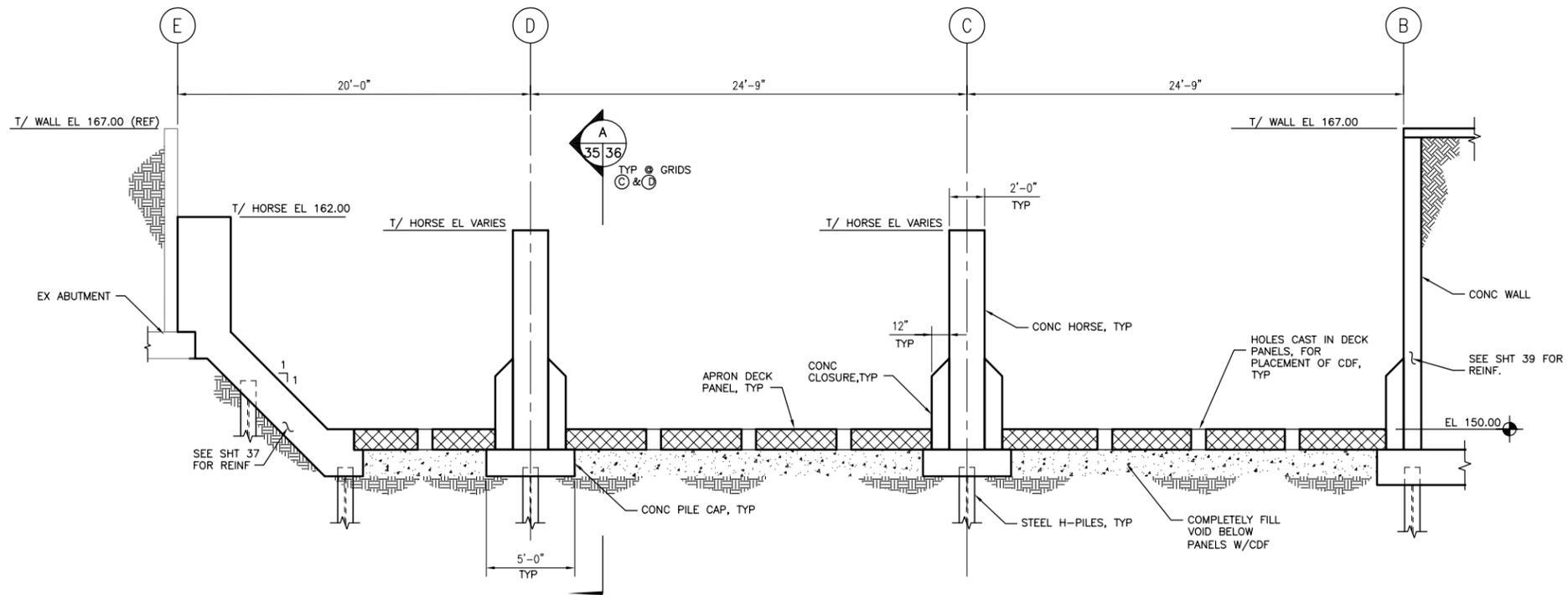
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CHIEF ENGINEER		DATE:	
PROGRAM		DATE:	

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DATE 12/28/12

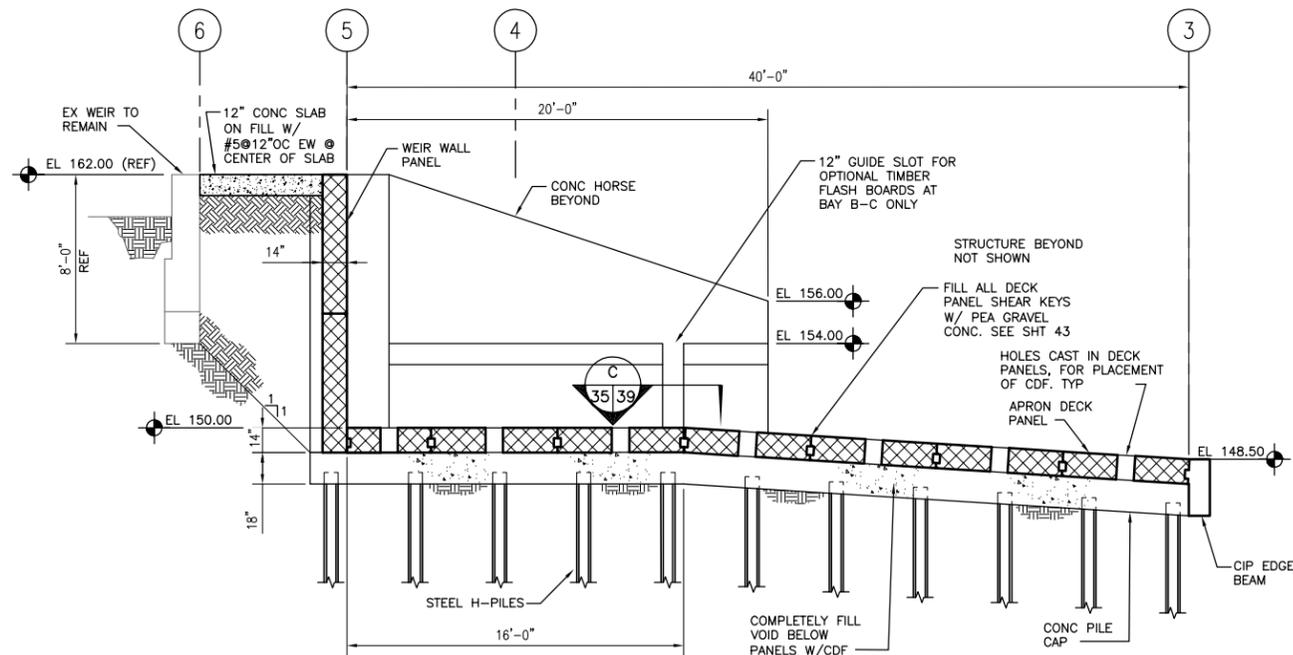
**TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
WEIR PLAN**

PROJECT NO.
KG:H104

SHEET OF
34 69

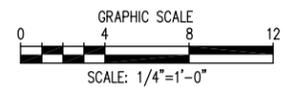


SECTION A
SCALE: 1/4" = 1'-0" 34|35



SECTION B
SCALE: 1/4" = 1'-0" 34|35

NOTES:
1.  INDICATES PRECAST CONCRETE PANELS



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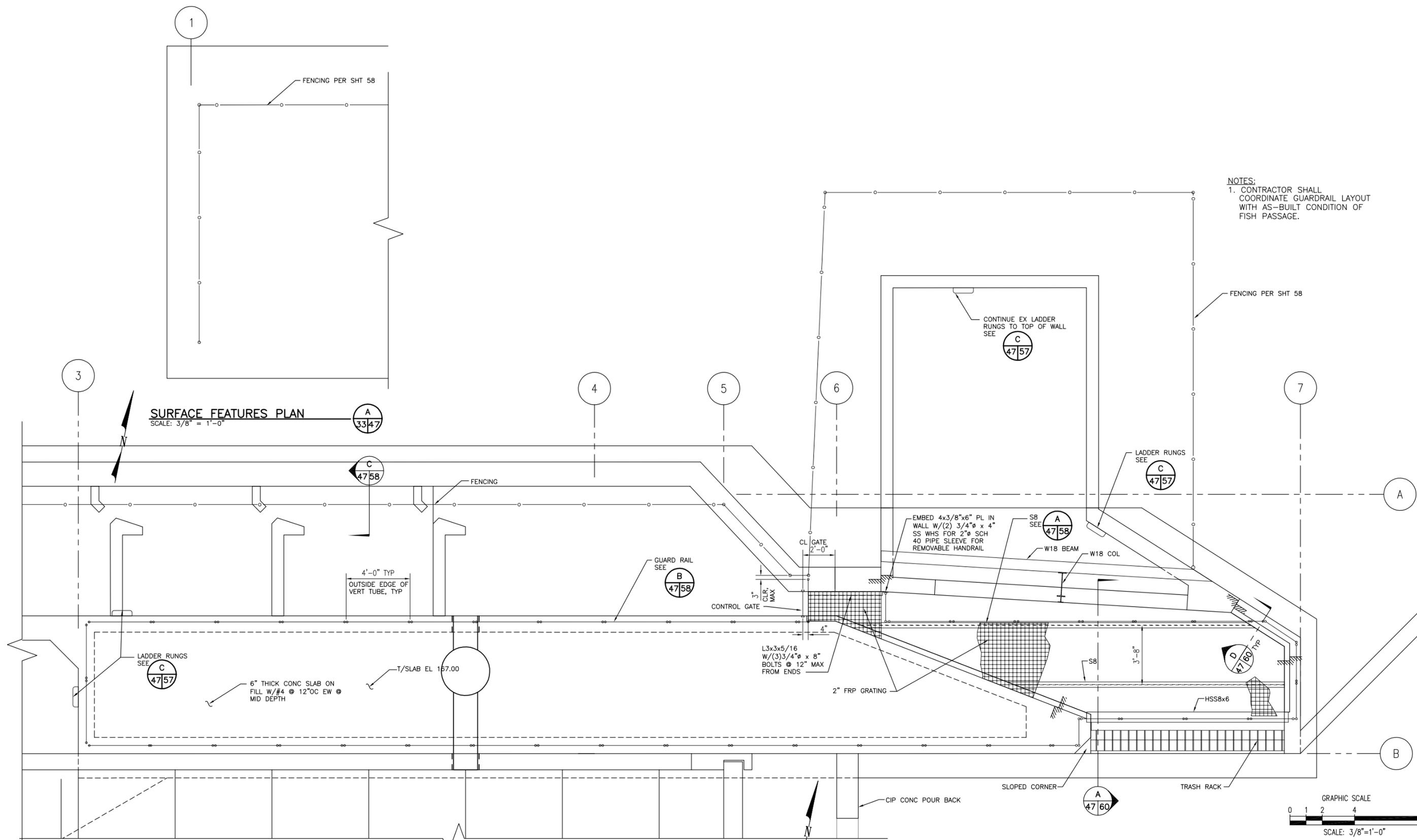


SYM	DATE	REVISION DESCRIPTION	BY
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CHIEF ENGINEER	DATE:	DESIGNED BY	IDF
PROGRAM	DATE:	CHECKED BY	SEK
		DRAWN BY	DEM
		DATE	12/28/12

TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
WEIR CROSS SECTIONS

PROJECT NO.
KG:H104

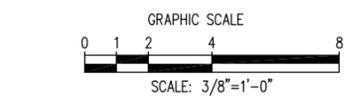
SHEET OF
35 69



NOTES:
 1. CONTRACTOR SHALL COORDINATE GUARDRAIL LAYOUT WITH AS-BUILT CONDITION OF FISH PASSAGE.

SURFACE FEATURES PLAN
 SCALE: 3/8" = 1'-0"

SURFACE FEATURES PLAN
 SCALE: 3/8" = 1'-0"



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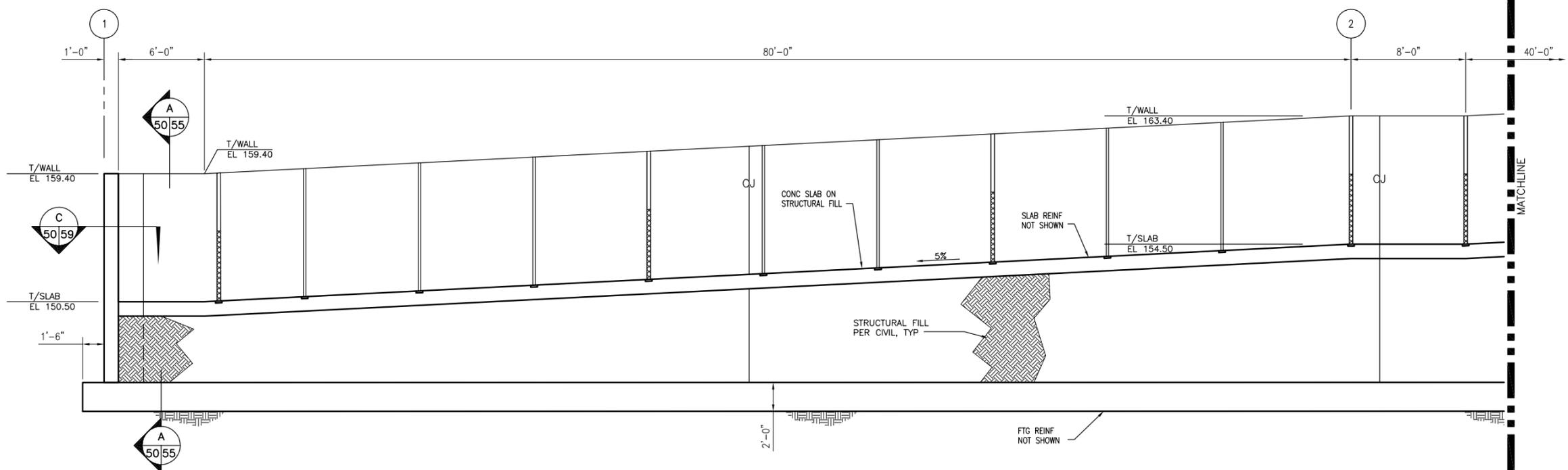
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 BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

DESIGNED BY: IDF
 CHECKED BY: SEK
 DRAWN BY: DEM
 DATE: 12/28/12

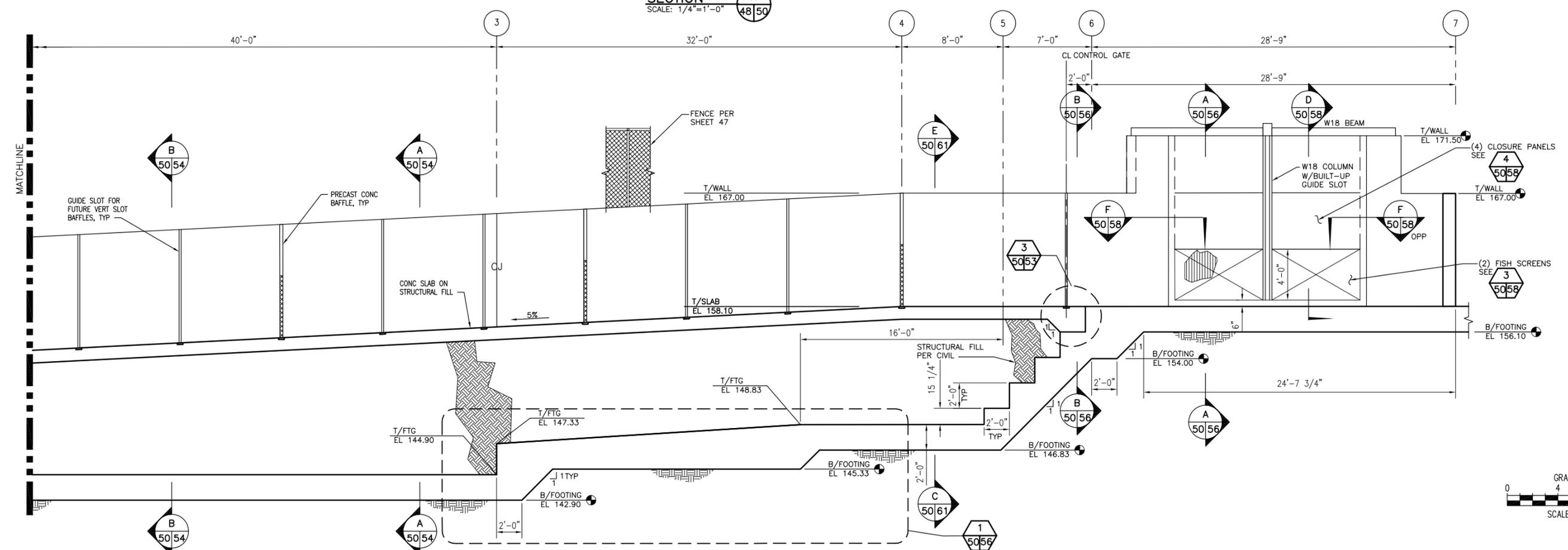
TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
FISH PASSAGE & INTAKE STRUCTURE
SURFACE FEATURES PLAN

PROJECT NO.
 KG:H104

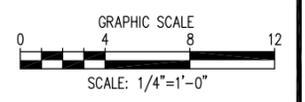
SHEET **47** OF **69**



SECTION A
SCALE: 1/4"=1'-0"



SECTION A
SCALE: 1/4"=1'-0"



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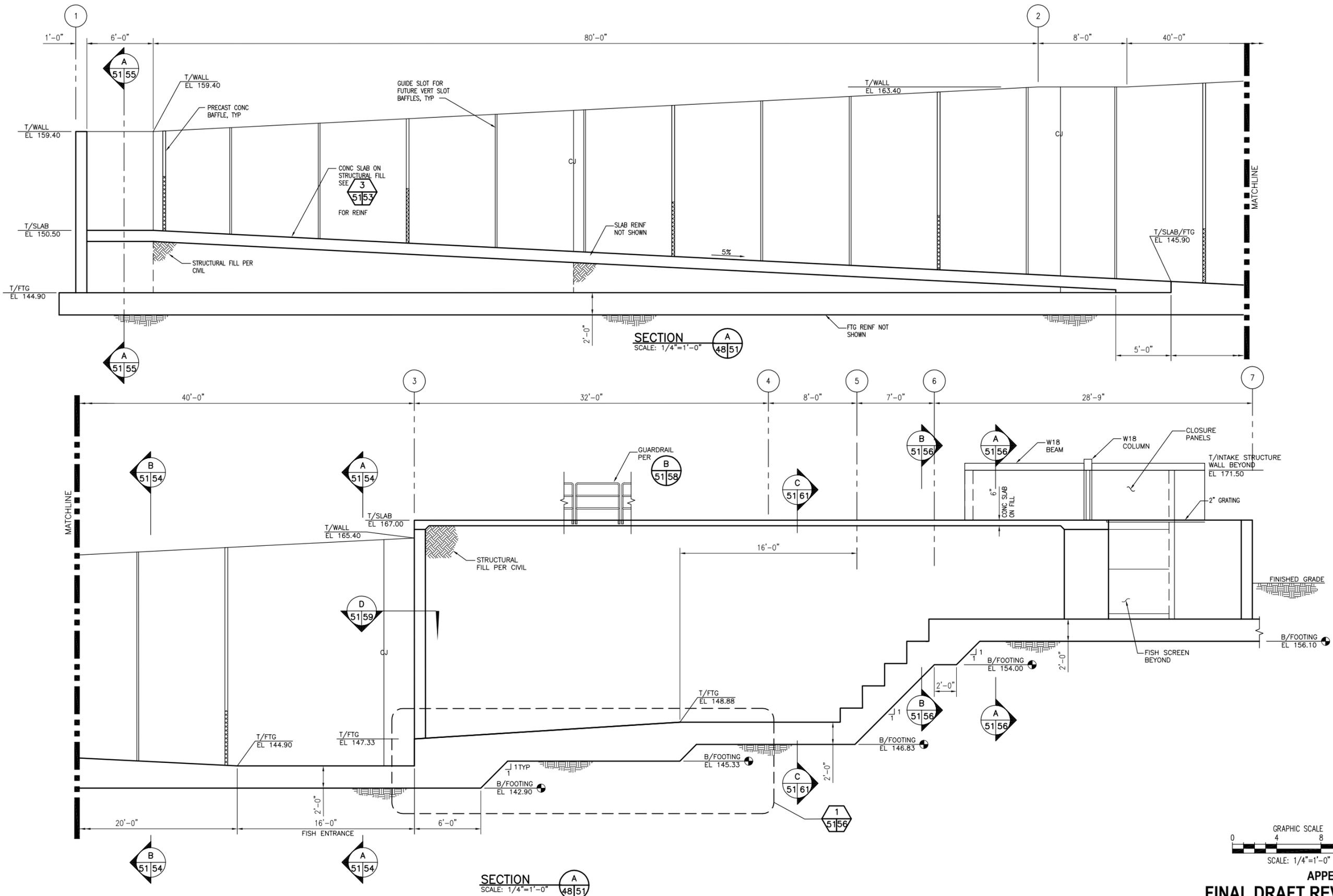
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BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

DESIGNED BY: IDF
CHECKED BY: SEK
DRAWN BY: DEM
DATE: 12/28/12

TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
FISH PASSAGE CROSS SECTIONS

PROJECT NO.
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PROGRAM		DATE:	

0 1"
BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

DESIGNED BY: IDF
CHECKED BY: SEK
DRAWN BY: DEM
DATE: 12/28/12

TOKUL CREEK HATCHERY
FISH PASSAGE & WEIR RESTORATION
FISH PASSAGE CROSS SECTIONS

PROJECT NO.
KG:H104

SHEET OF
51 **69**