

SHEET NOTES:

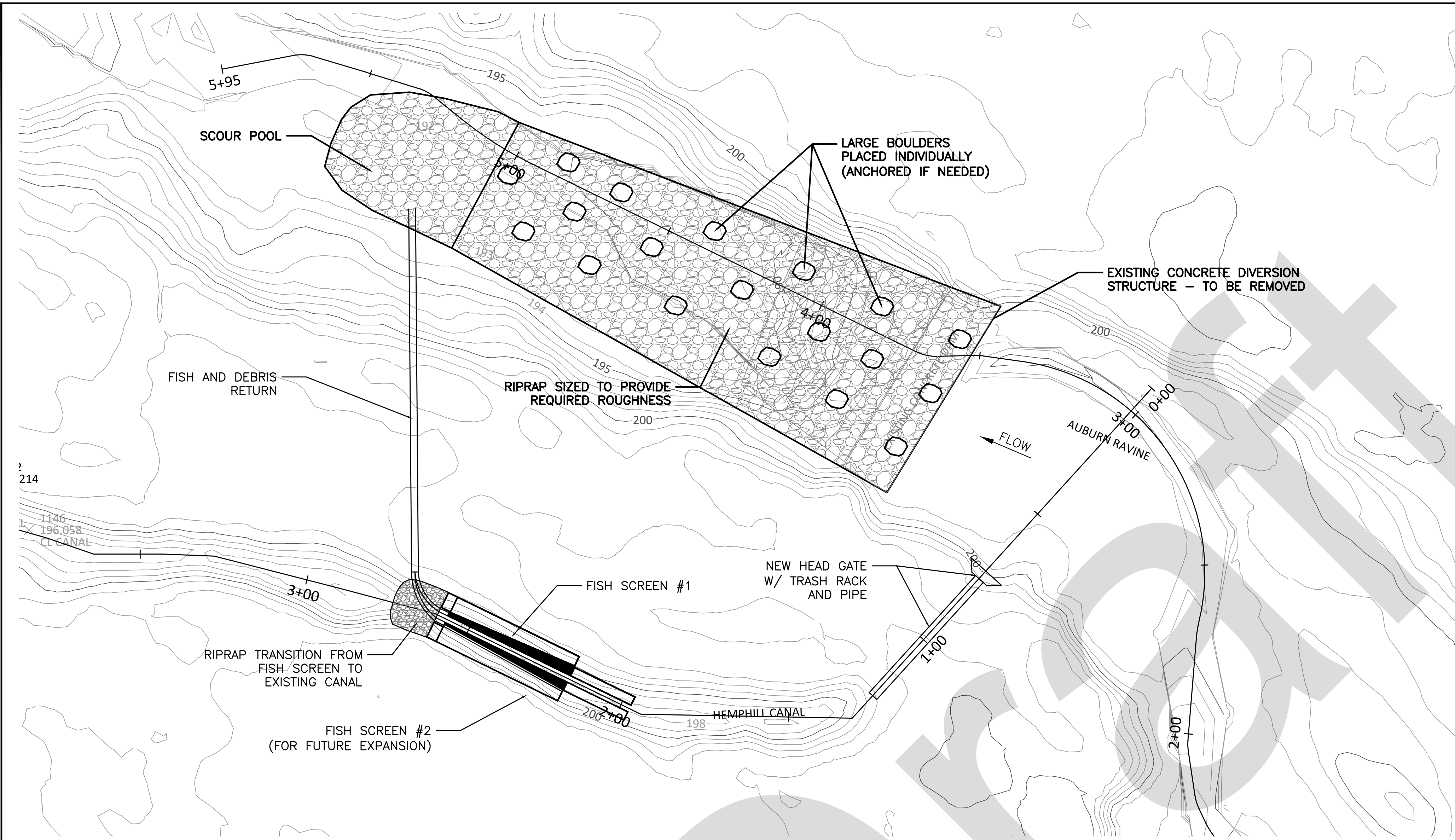
1. THIS DRAWING PRESENTS THE CONCEPTUAL DESIGN FOR THE REMOVAL OF THE EXISTING HEMPHILL DIVERSION DAM, THE INSTALLATION OF A ROUGHENED CHANNEL, AND THE INSTALLATION OF A FARMERS HORIZONTAL SCREEN.
2. TOPOGRAPHY IS BASED ON REGIONAL LIDAR (2018) AND THALWEG SURVEY PROVIDED BY NID.

Hemphill Canal Flows		
Max Flow	17 cfs	NID - BR220 (2011 - 2021)
Min Flow	0.01 cfs	NID - BR220 (2011 - 2021)
5%	9 cfs	NID - BR220 (2011 - 2021)
95%	3cfs	NID - BR220 (2011 - 2021)

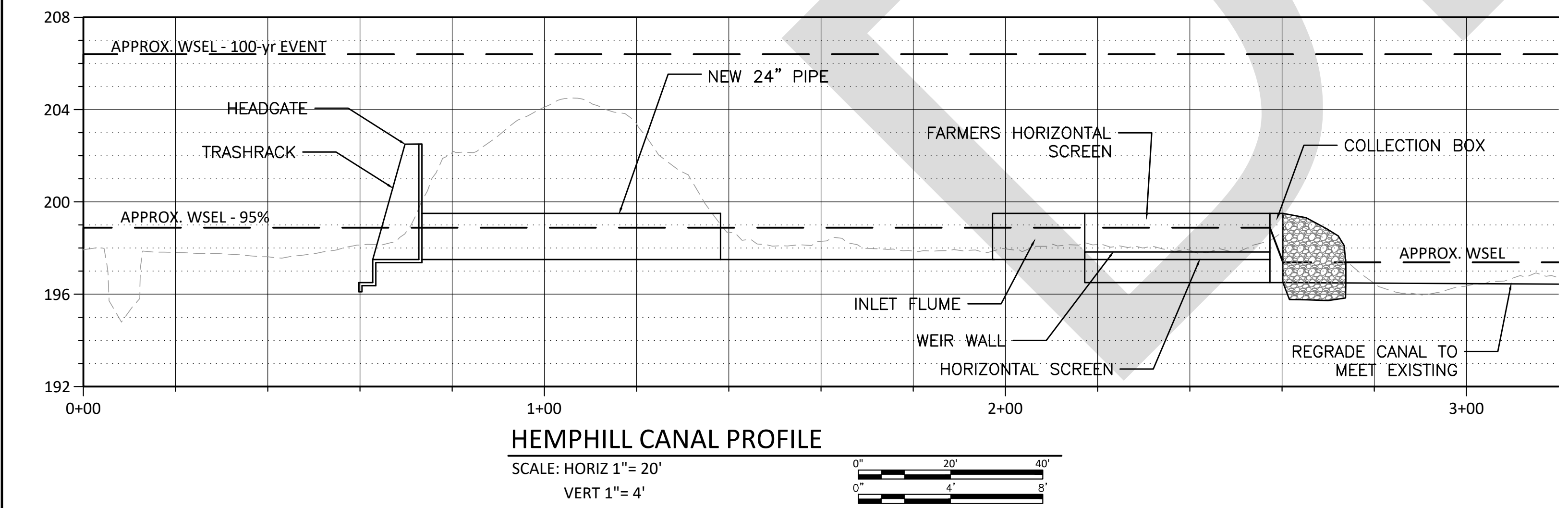
Auburn Ravine Flows (1995 - 2021 Auburn Ravine Flows - NID gage BR200)		
Max Flow	203.7 cfs	NID - BR200 (1995 - 2021)
Min Flow	1.9 cfs	NID - BR200 (1995 - 2021)
5%	172.5 cfs	NID - BR200 (1995 - 2021)
95%	13.3 cfs	NID - BR200 (1995 - 2021)
100-yr event	15,643 cfs	FEMA FIS 06061CV001A

Fish Screen Design Criteria		
Approach Velocity	<0.25 fps	NMFS 11.6.1.7.11
By-Pass Flow	15% of diverted flow	NMFS 11.6.1.7.8
Sweeping Velocity	> 2.5 fps	NMFS 11.6.1.7.12

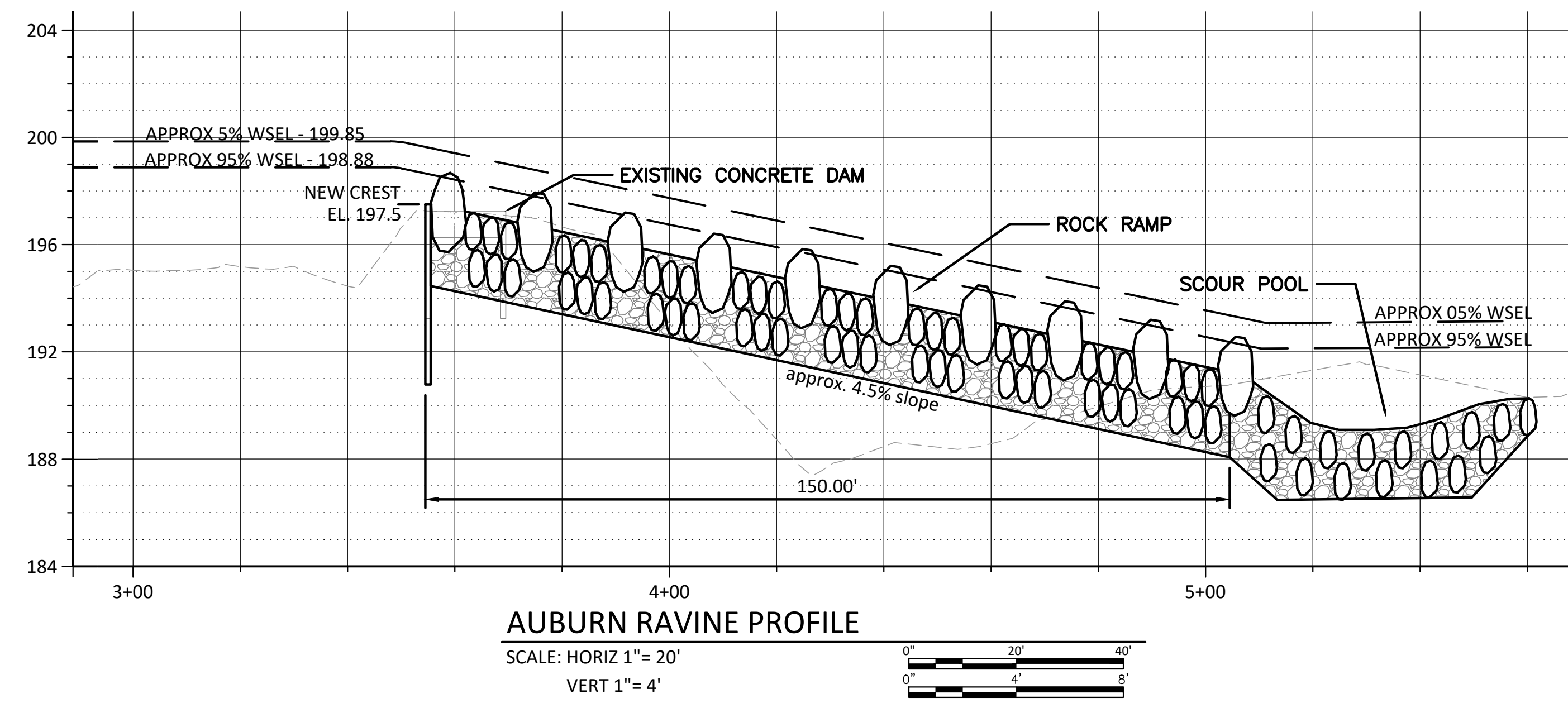
Roughened Channel Design Criteria		
Length	< 150 feet	NMFS 4.10.2.2
Slope	< 6%	NMFS 4.10.2.2
Depth of Flow	> 1 foot	NMFS 4.10.2.2



SITE PLAN
SCALE: 1" = 20'



HEMPHILL CANAL PROFILE
SCALE: HORIZ 1" = 20'
VERT 1" = 4'



AUBURN RAVINE PROFILE
SCALE: HORIZ 1" = 20'
VERT 1" = 4'

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



NEVADA IRRIGATION DISTRICT
HEMPHILL DIVERSION PROJECT
CONCEPT DESIGN

DESIGNED _____
DRAWN _____
CHECKED _____
PROJECT DATE _____

DRAWING

REV	DATE	BY	DESCRIPTION